LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

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-BF050217.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	1.960	3	4	16	rVB	63623	87713	3.33%	0.306%
2	5.801	654	657	662	rBV2	22327	44832	1.70%	0.156%
3	7.366	920	923	937	rBV3	27876	94634	3.59%	0.330%
4	7.466	937	940	955	rVB	68025	165495	6.29%	0.578%
5	7.778	989	993	1002	rBV	304217	387974	14.74%	1.354%
6	8.019	1029	1034	1043	rBV	93435	142044	5.40%	0.496%
7	8.707	1147	1151	1156	rBV3	21276	45463	1.73%	0.159%
8	9.795	1331	1336	1341	rBV	387381	507423	19.27%	1.771%
9	11.113	1553	1560	1567	rBV	30212	53133	2.02%	0.185%
10	11.566	1632	1637	1648	rBV	129644	186894	7.10%	0.652%
11	12.101	1723	1728	1732	rBV2	39016	61263	2.33%	0.214%
12	12.148	1732	1736	1742	rVB4	25615	43587	1.66%	0.152%
13	12.413	1774	1781	1788	rBV4	23143	41843	1.59%	0.146%
14	12.624	1812	1817	1822	rBV2	423544	561020	21.31%	1.958%
15	12.677	1822	1826	1831	rVB	257008	313345	11.90%	1.094%
16	12.971	1871	1876	1887	rBV	121737	200170	7.60%	0.699%
17	13.524	1964	1970	1979	rVV	296128	429389	16.31%	1.499%
18	13.613	1979	1985	1990	rVV6	28637	68514	2.60%	0.239%
19	13.660	1990	1993	1998	rVB2	39961	56649	2.15%	0.198%
20	13.801	2013	2017	2019	rBV	45379	56408	2.14%	0.197%
21	13.936	2035	2040	2047	rBV2	65186	137084	5.21%	0.478%
22	14.260	2092	2095	2100	rVB3	28017	41739	1.59%	0.146%
23	14.430	2117	2124	2127	rBV2	45010	76387	2.90%	0.267%
24	14.818	2185	2190	2194	rBV3	23624	45291	1.72%	0.158%
25	14.865	2194	2198	2203	rVB	103166	128386	4.88%	0.448%
26	15.030	2219	2226	2229	rBV	369952	474341	18.02%	1.655%
27	15.071	2229	2233	2240	rVV	1916430	2447619	92.97%	8.542%
28	15.148	2242	2246	2257	rVB	567114	743256	28.23%	2.594%
29	15.242	2257	2262	2267	rBV3	30219	56910	2.16%	0.199%
30	15.436	2291	2295	2305	rVV	103866	160195	6.08%	0.559%
31	15.812	2354	2359	2362	rBV	151258	178456	6.78%	0.623%
32	15.854	2362	2366	2370	rVV	178504	224367	8.52%	0.783%
33	15.918	2374	2377	2380	rVV	74516	92363	3.51%	0.322%
34	15.960	2380	2384	2387	rVV2	341065	422710	16.06%	1.475%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

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-BF050217.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.001	2387	2391	2397	rVB2	115573	190500	7.24%	0.665%
36	16.154	2414	2417	2424	rBV5	23693	42548	1.62%	0.148%
37	16.248	2430	2433	2439	rVB	118522	136032	5.17%	0.475%
38	16.607	2490	2494	2497	rBV	77677	95312	3.62%	0.333%
39	16.648	2497	2501	2505	rVV4	44872	63892	2.43%	0.223%
40	16.724	2510	2514	2518	rBV3	45497	62370	2.37%	0.218%
41	16.812	2524	2529	2534	rBV	2147989	2632814	100.00%	9.188%
42	16.907	2540	2545	2550	rBV3	35778	76565	2.91%	0.267%
43	17.006	2559	2562	2567	rBV2	68959	97665	3.71%	0.341%
44	17.112	2575	2580	2585	rBV	1952980	2545473	96.68%	8.883%
45	17.154	2585	2587	2590	rVV	68504	69847	2.65%	0.244%
46	17.195	2590	2594	2598	rVB2	48375	65247	2.48%	0.228%
47	17.301	2608	2612	2616	rBV	104314	123672	4.70%	0.432%
48	17.348	2616	2620	2625	rBV2	185830	227446	8.64%	0.794%
49	17.412	2628	2631	2632	rBV	40163	48120	1.83%	0.168%
50	17.430	2632	2634	2639	rVB2	69733	99439	3.78%	0.347%
51	17.483	2639	2643	2646	rBV	73765	85808	3.26%	0.299%
52	17.536	2650	2652	2655	rBV2	44557	57780	2.19%	0.202%
53	17.571	2655	2658	2663	rVB	290701	359747	13.66%	1.255%
54	17.618	2663	2666	2669	rBV	58021	77115	2.93%	0.269%
55	17.659	2669	2673	2677	rVB	365273	417515	15.86%	1.457%
56	17.706	2677	2681	2683	rBV3	143105	175847	6.68%	0.614%
57	17.759	2688	2690	2693	rVV	98010	111445	4.23%	0.389%
58	17.795	2693	2696	2698	rVV	107290	117627	4.47%	0.411%
59	17.824	2698	2701	2705	rVV	69057	70001	2.66%	0.244%
60	17.865	2705	2708	2713	rVV	62952	87454	3.32%	0.305%
61	17.936	2717	2720	2723	rVB	77362	82454	3.13%	0.288%
62	18.212	2764	2767	2772	rBV4	43372	77718	2.95%	0.271%
63	18.377	2791	2795	2798	rBV	137195	170619	6.48%	0.595%
64	18.406	2798	2800	2803	rVV	132603	135551	5.15%	0.473%
65	18.442	2803	2806	2809	rVV	127597	137902	5.24%	0.481%
66	18.477	2809	2812	2816	rVB2	104330	125884	4.78%	0.439%
67	18.595	2829	2832	2838	rVB	83389	97434	3.70%	0.340%
68	18.689	2841	2848	2853	rBV2	1175849	2008790	76.30%	7.010%
69	18.736	2853	2856	2864	rVV2	1036250	1357080	51.54%	4.736%
70	18.830	2868	2872	2876	rVV	310421	336057	12.76%	1.173%
71	18.906	2882	2885	2889	rBV3	49081	80330	3.05%	0.280%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

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-BF050217.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.977	2893	2897	2902	rVV2	147913	230328	8.75%	0.804%
73	19.018	2902	2904	2911	rVB2	99715	131978	5.01%	0.461%
74	19.153	2924	2927	2930	rBV	40499	47624	1.81%	0.166%
75	19.206	2930	2936	2940	rVV	155083	238156	9.05%	0.831%
76	19.242	2940	2942	2947	rVB2	89002	105346	4.00%	0.368%
77	19.318	2947	2955	2958	rBV2	140096	210559	8.00%	0.735%
78	19.353	2958	2961	2963	rVV3	80930	109084	4.14%	0.381%
79	19.383	2963	2966	2969	rVB2	146804	173427	6.59%	0.605%
80	19.600	2999	3003	3004	rBV	39300	50868	1.93%	0.178%
81	19.753	3026	3029	3035	rVB	56193	72758	2.76%	0.254%
82	19.806	3035	3038	3044	rBV	86566	129459	4.92%	0.452%
83	19.965	3061	3065	3068	rBV	906086	1300743	49.41%	4.539%
84	19.995	3068	3070	3076	rVV	473758	496993	18.88%	1.734%
85	20.077	3081	3084	3087	rVV	175251	202306	7.68%	0.706%
86	20.106	3087	3089	3094	rVB2	61796	70196	2.67%	0.245%
87	20.259	3111	3115	3119	rBV	540310	580729	22.06%	2.027%
88	20.318	3121	3125	3131	rVB	805594	895056	34.00%	3.124%
89	20.377	3131	3135	3138	rBV	320811	391160	14.86%	1.365%
90	20.406	3138	3140	3144	rVB	200886	199316	7.57%	0.696%
91	20.547	3162	3164	3167	rBV2	38599	41587	1.58%	0.145%
92	20.836	3210	3213	3220	rVB4	49748	93220	3.54%	0.325%
93	20.894	3220	3223	3228	rVB3	35378	52419	1.99%	0.183%
94	21.530	3328	3331	3335	rBV4	45423	85249	3.24%	0.298%
95	21.712	3356	3362	3370	rBV	253656	514722	19.55%	1.796%
96	21.777	3371	3373	3380	rVB3	46893	74554	2.83%	0.260%
97	21.865	3384	3388	3392	rBV2	52379	82670	3.14%	0.289%
98	21.918	3393	3397	3402	rVB4	44276	75888	2.88%	0.265%
99	22.100	3422	3428	3435	rBV	196942	368853	14.01%	1.287%
100	22.324	3462	3466	3471	rBV2	48170	105234	4.00%	0.367%

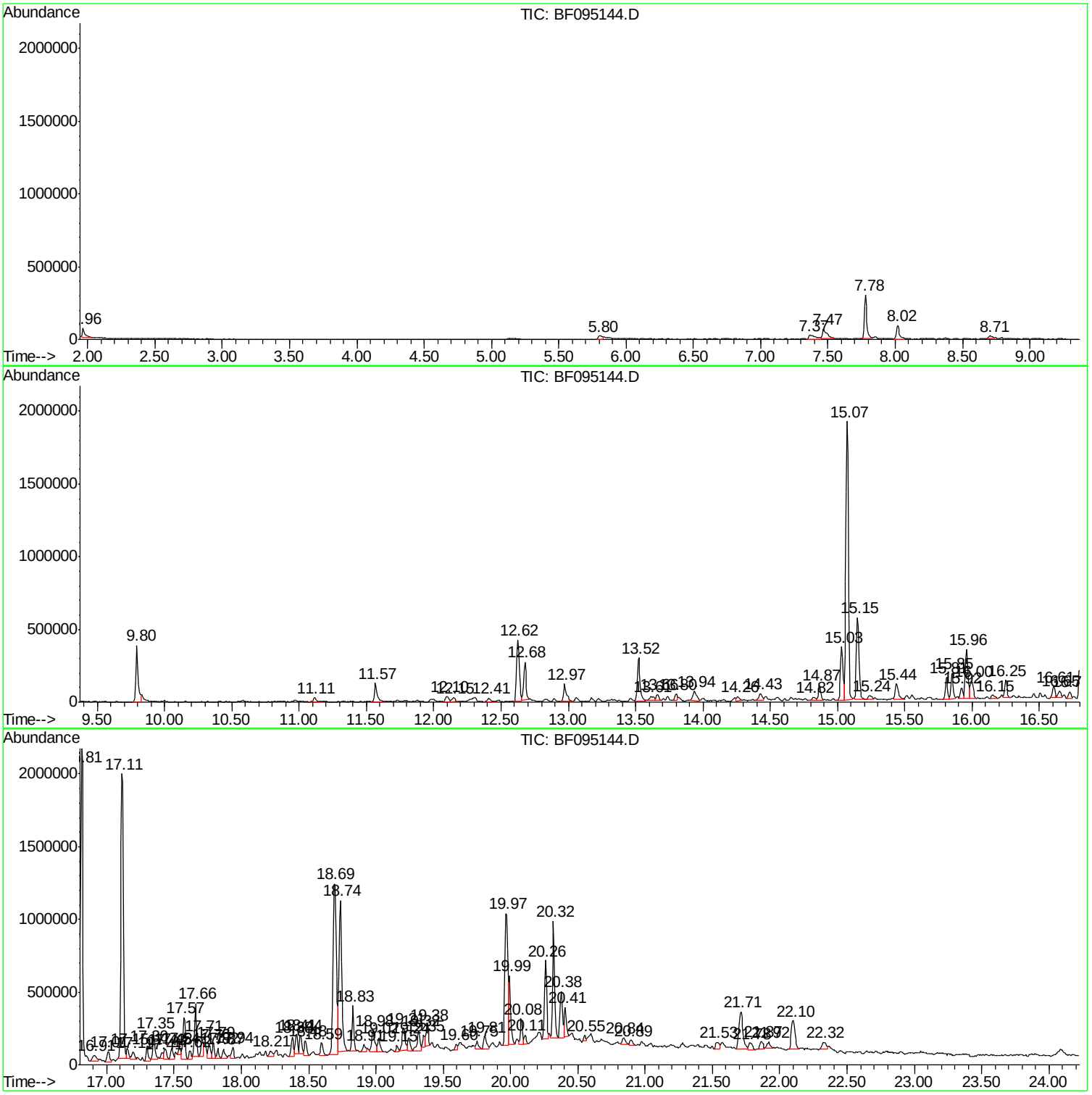
Sum of corrected areas: 28654479

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.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\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

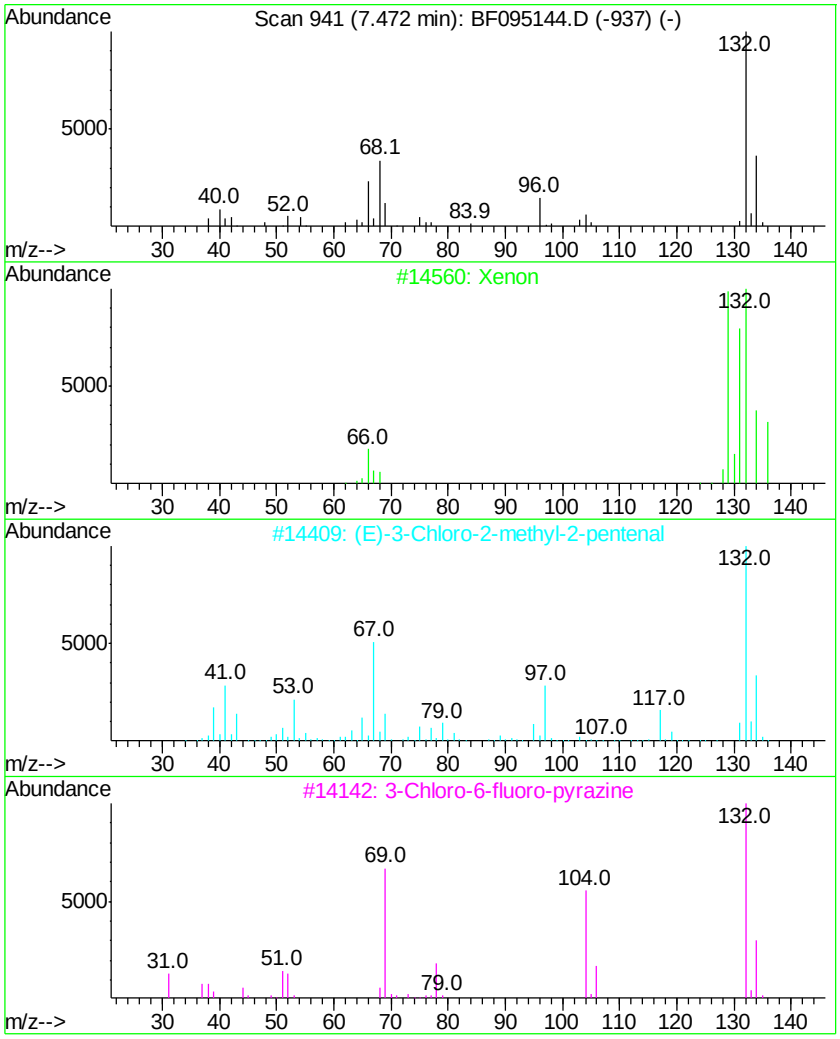
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

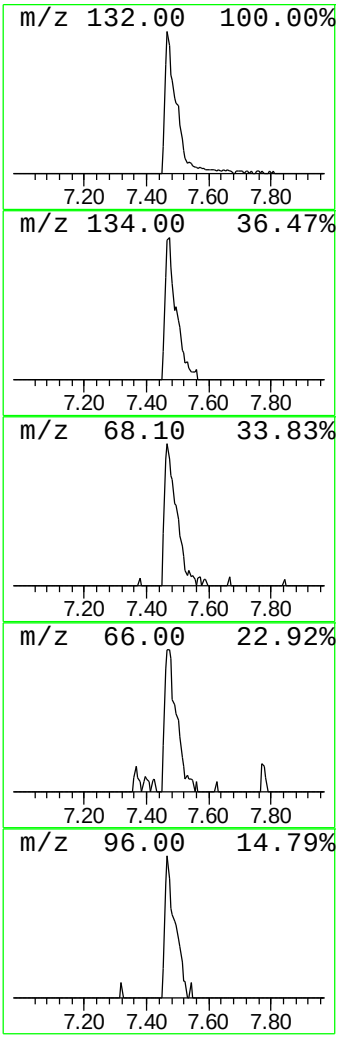
****

Peak Number 2 unknown7.47 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.47	8.53 ng	165495	1,4-Dichlorobenzene-d4	7.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Xenon	132	Xe	007440-63-3	45
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
3	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	17
5	N-(-3,4-Methylenedioxyphenylisop...	267	C17H17NO2	1000378-96-6	12





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

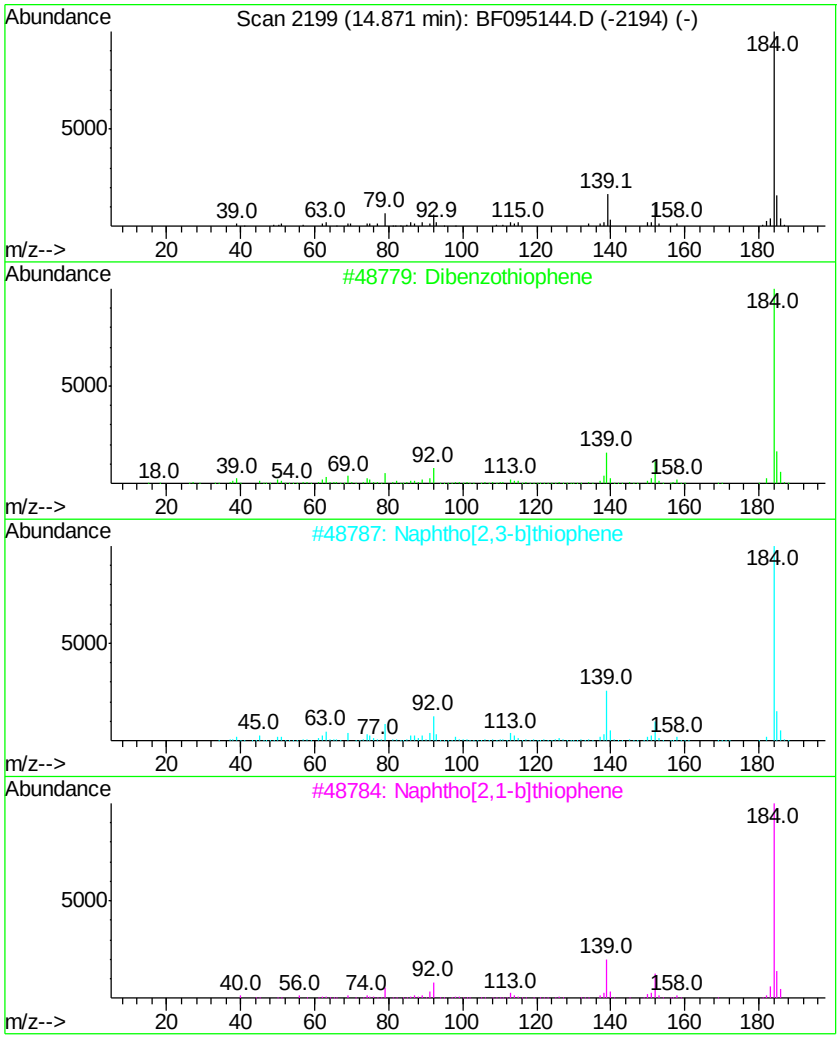
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

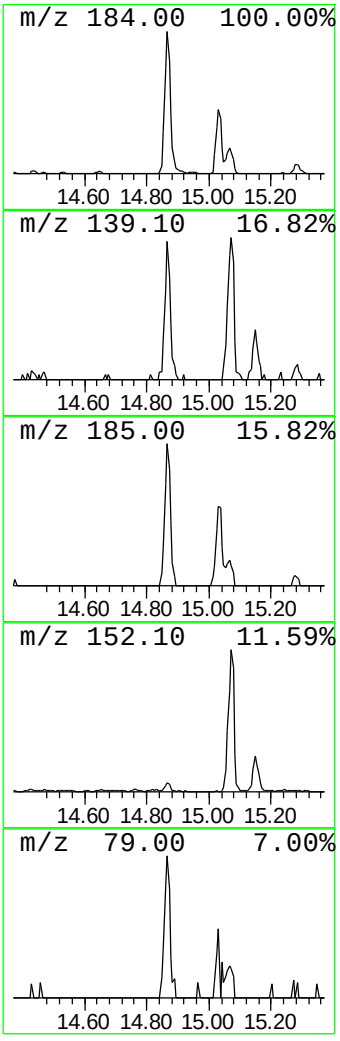
****

Peak Number 4 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	5.41 ng	128386	Phenanthrene-d10	15.03

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





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

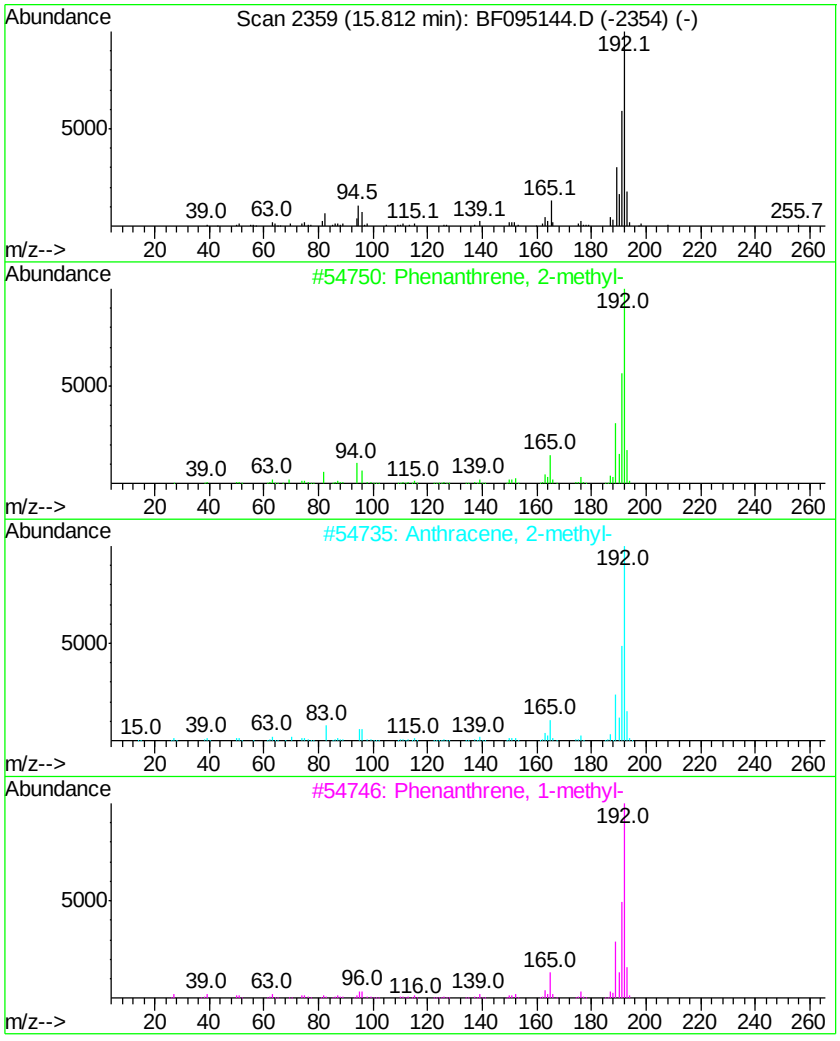
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

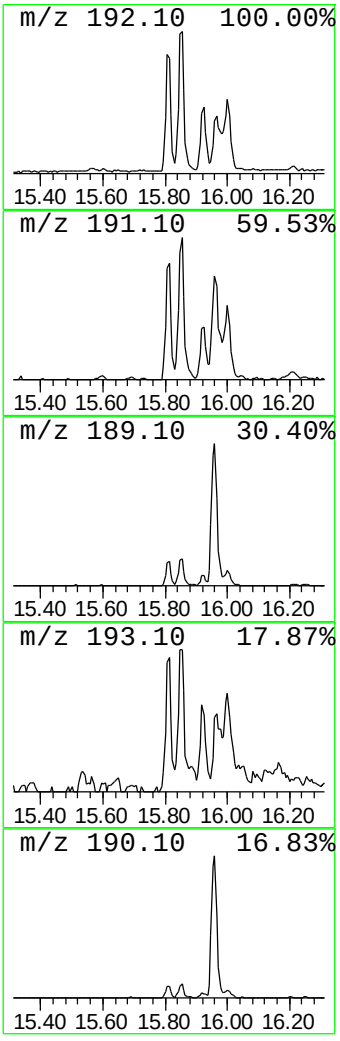
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	7.52 ng	178456	Phenanthrene-d10	15.03

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

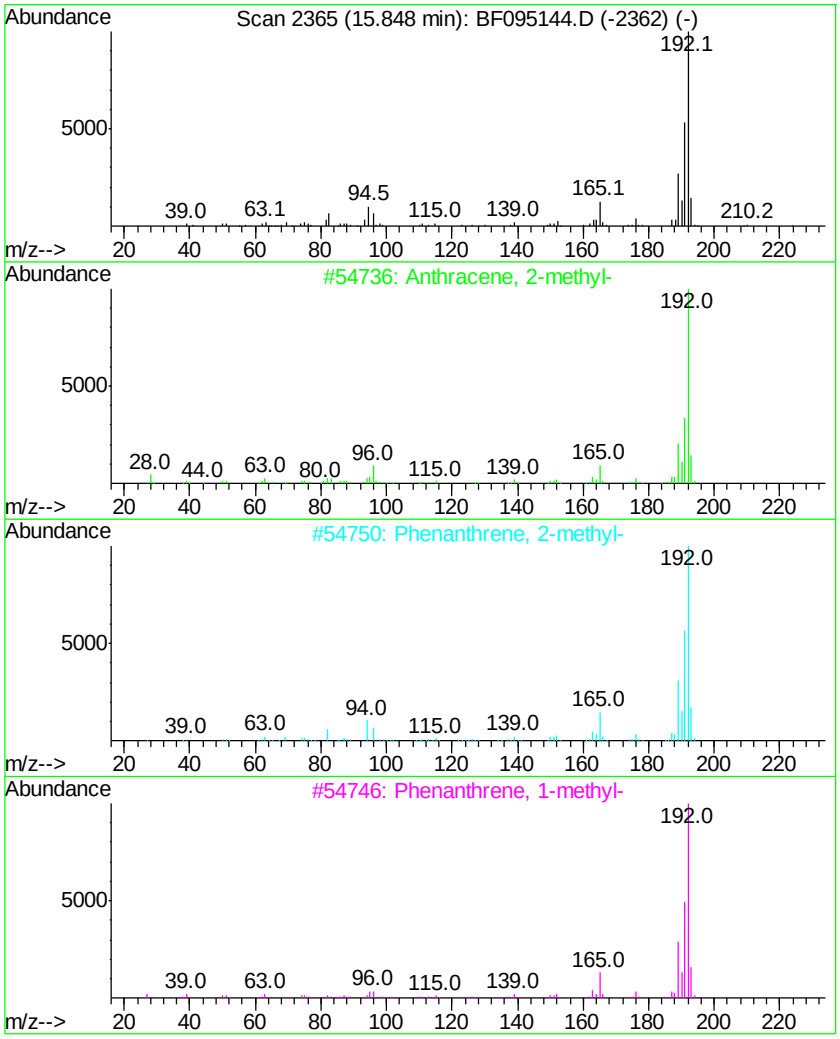
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

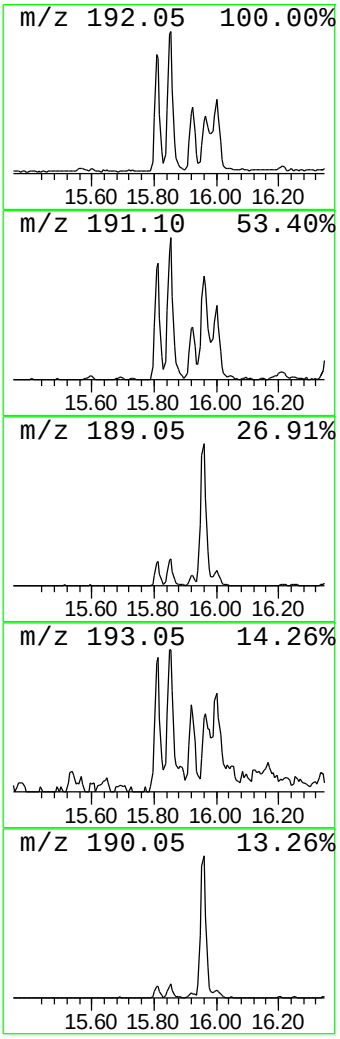
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.85	9.46 ng	224367	Phenanthrene-d10	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

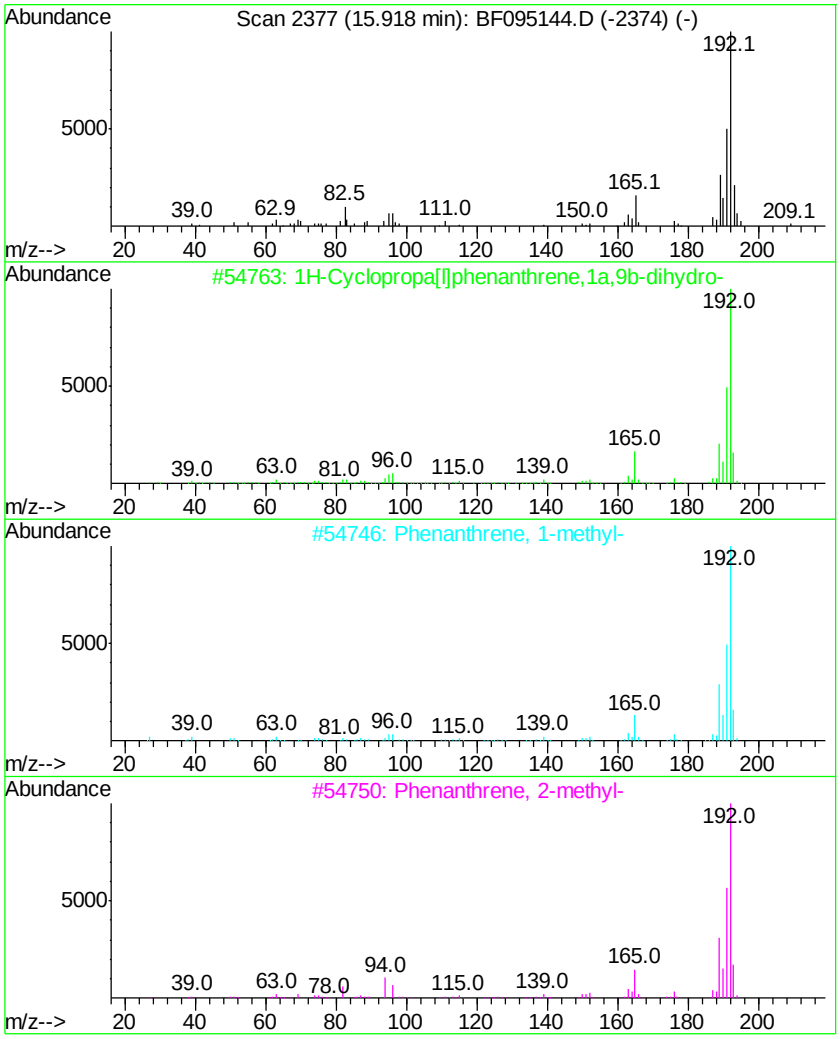
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

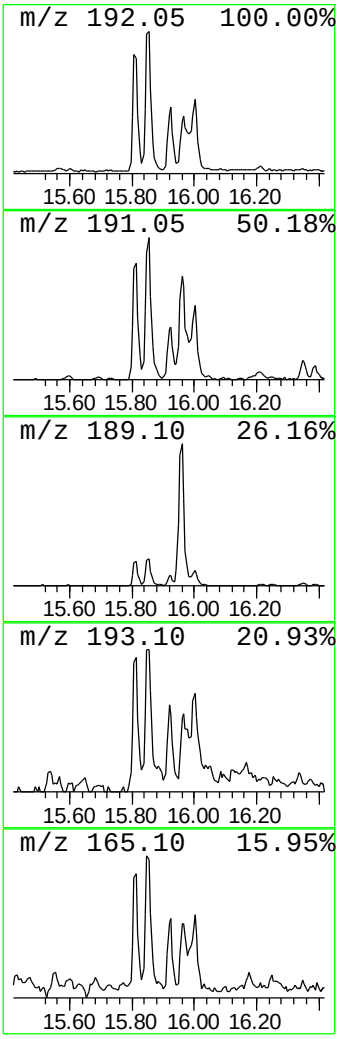
****

Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	3.89 ng	92363	Phenanthrene-d10	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

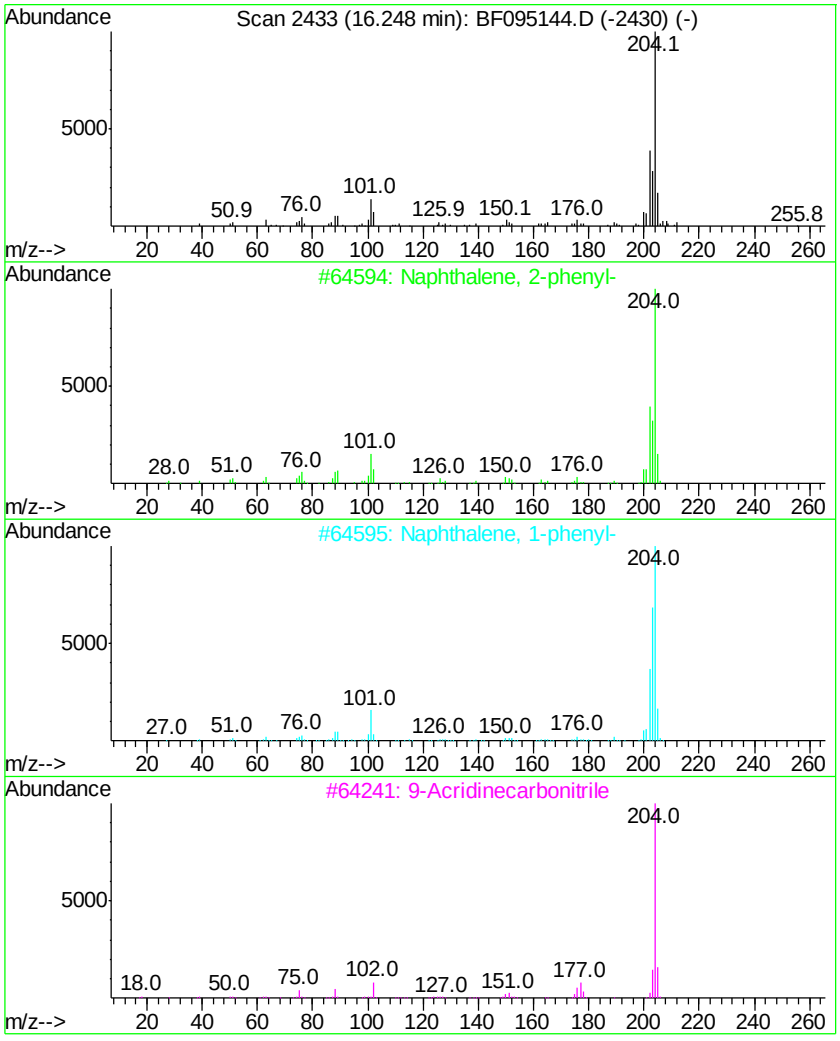
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

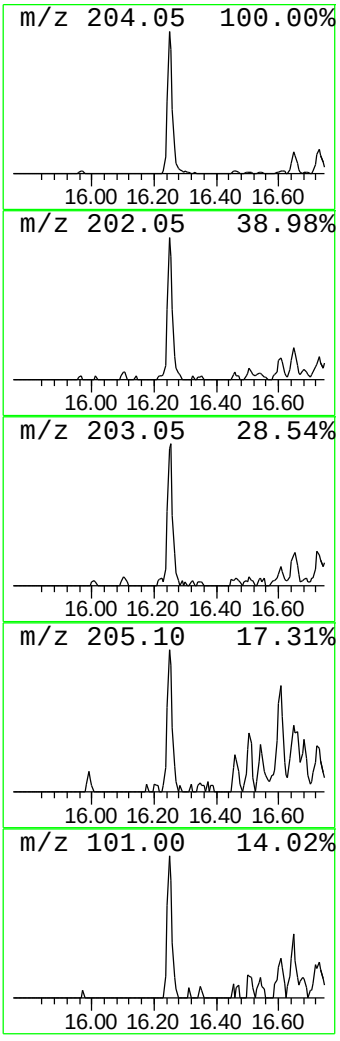
****

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.25	5.74 ng	136032	Phenanthrene-d10	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	98
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	49
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
5	Pyrazol-5-ol, 3-(3,4-methylenedi...	204	C10H8N2O3	1000271-76-1	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

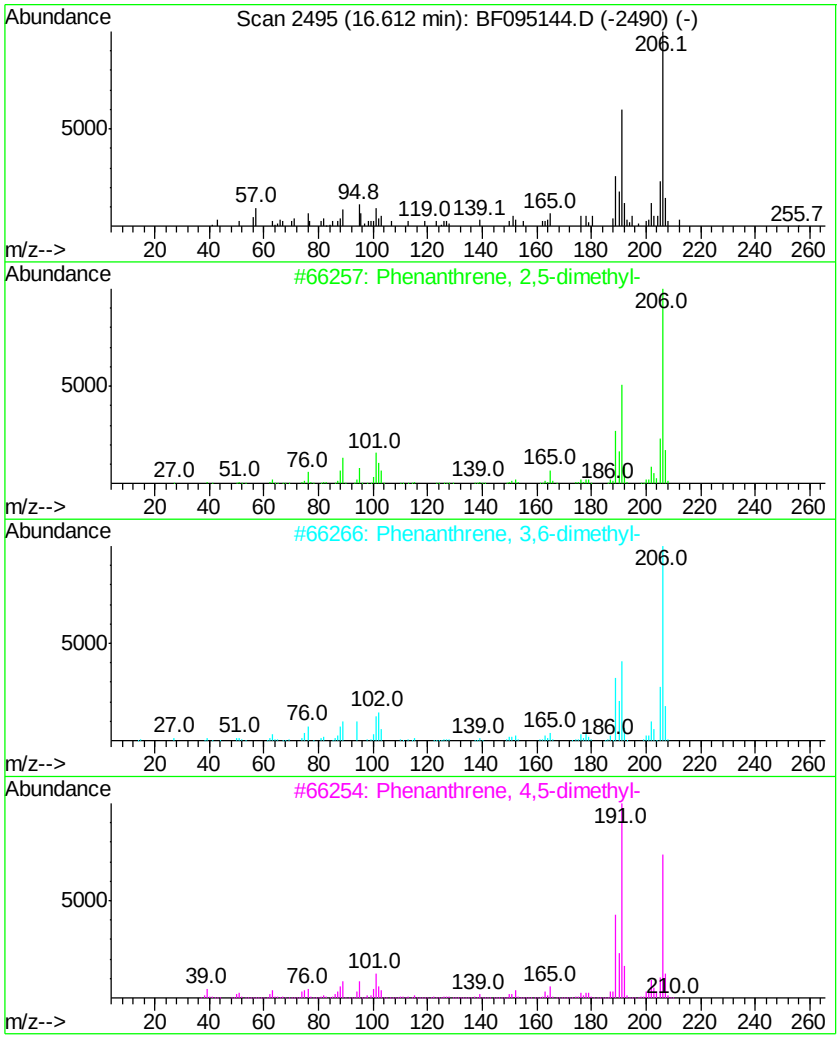
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

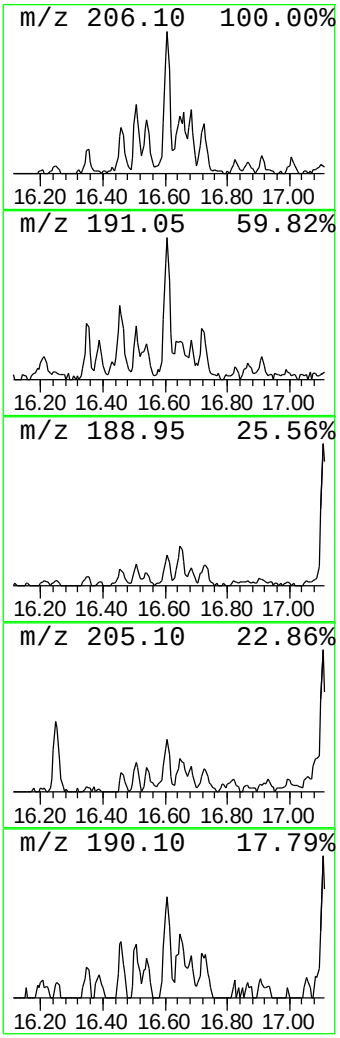
****

Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.61	4.02 ng	95312	Phenanthrene-d10	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

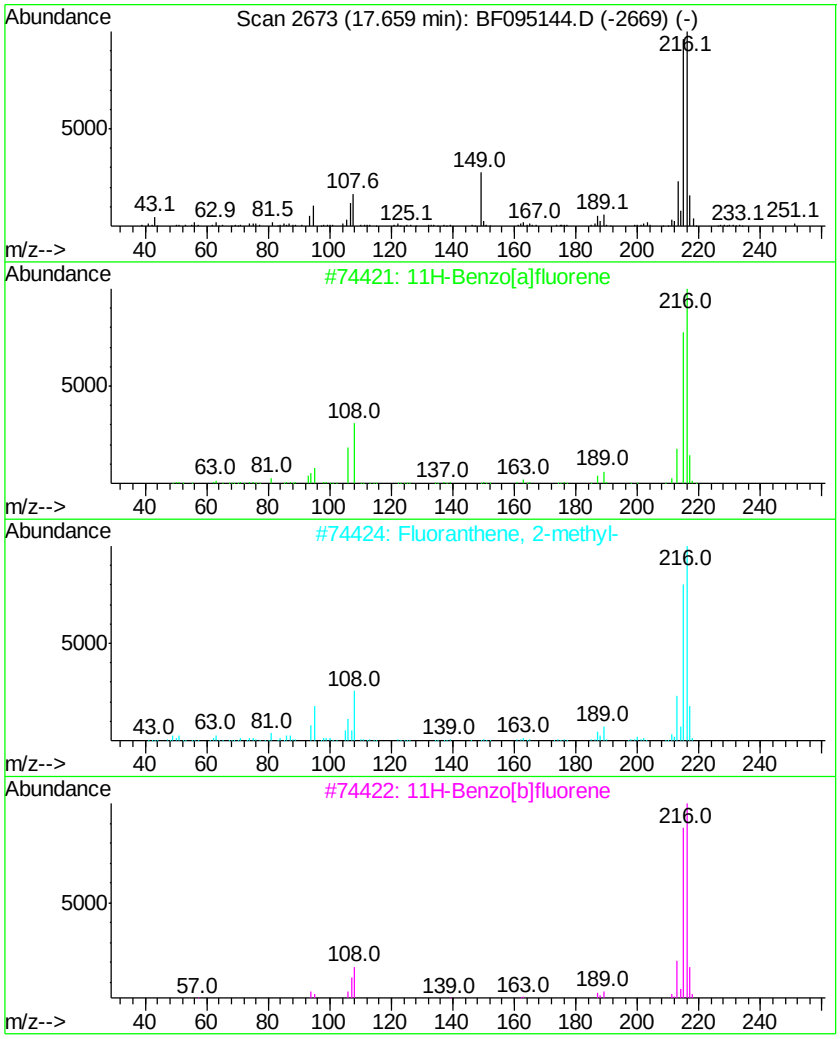
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

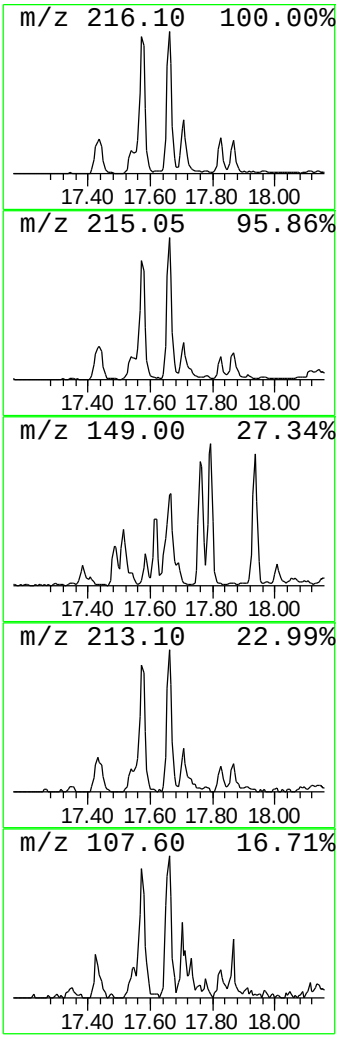
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	4.16 ng	417515	Chrysene-d12	18.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	53





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

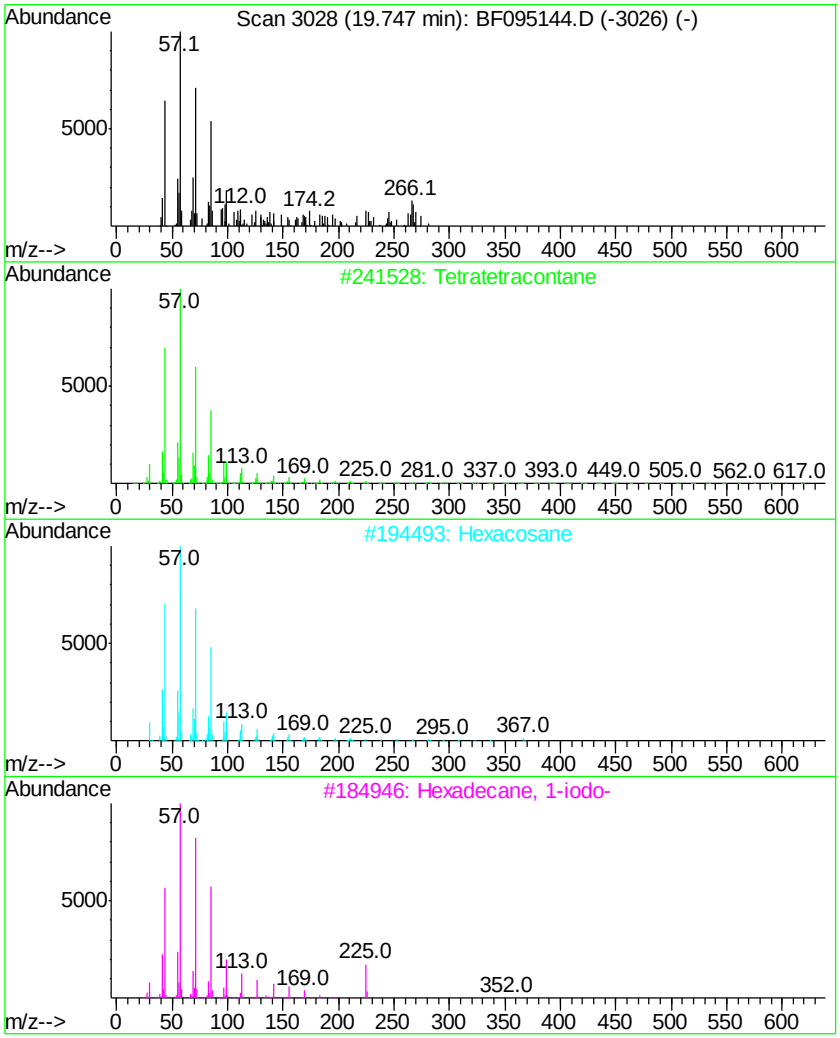
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

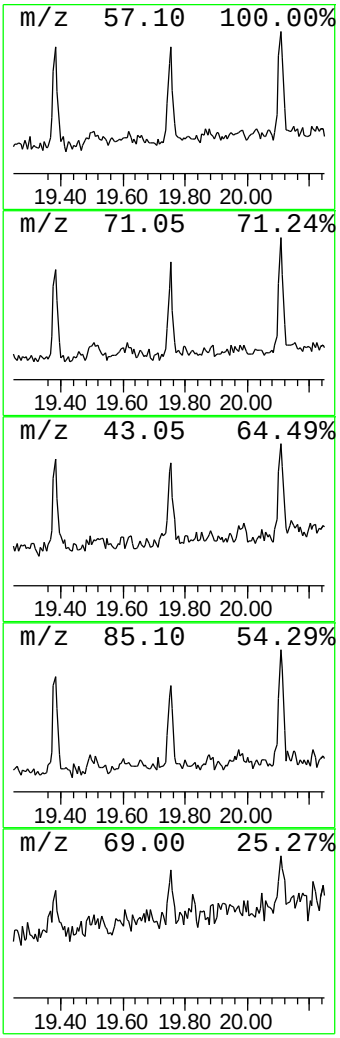
****

Peak Number 11 Tetratetracontane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.75	3.72 ng	72758	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	64
2	Hexacosane	366	C26H54	000630-01-3	64
3	Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	59
4	Sulfurous acid, dodecyl 2-propyl...	292	C15H32O3S	1000309-12-3	59
5	Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	53





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

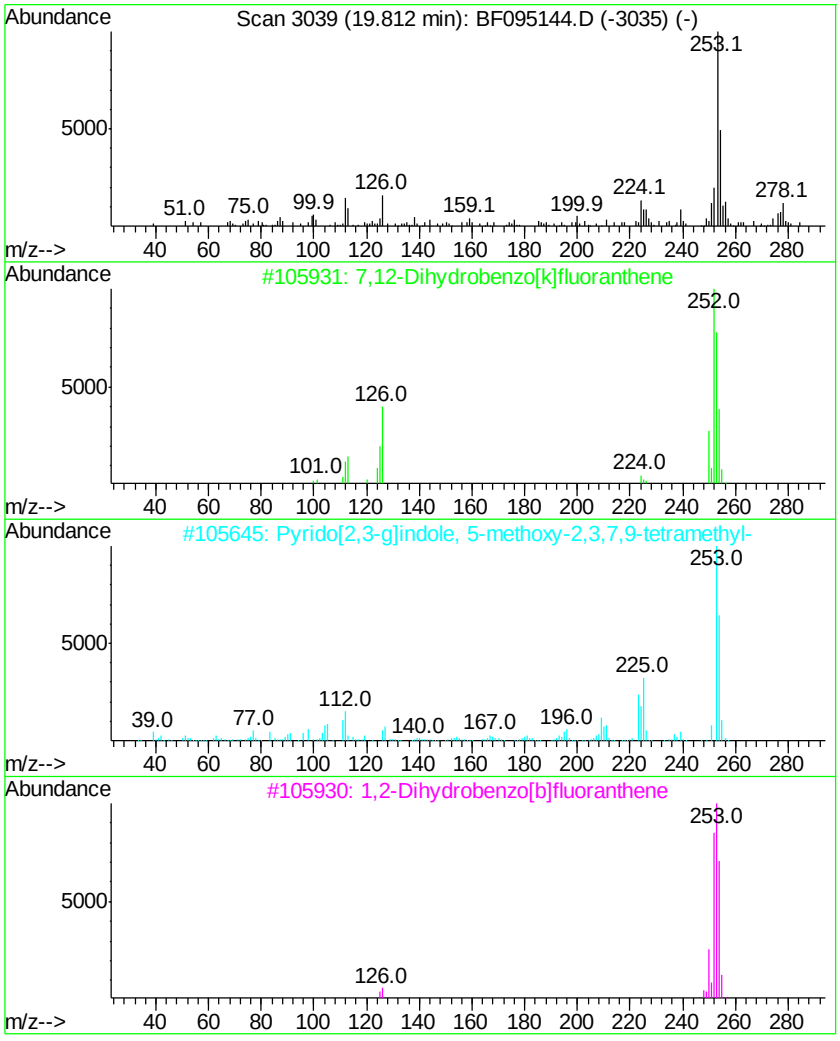
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

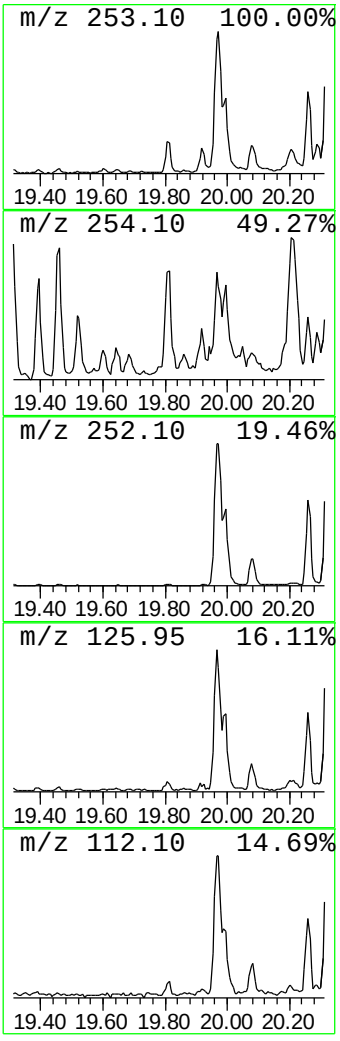
****

Peak Number 12 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.81	6.62 ng	129459	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	62
2	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	49
3	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	47
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	43
5	1H-Pyrrolo[2,3-f]quinolin-9-ol, ...	254	C16H18N2O	1000303-71-9	43





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

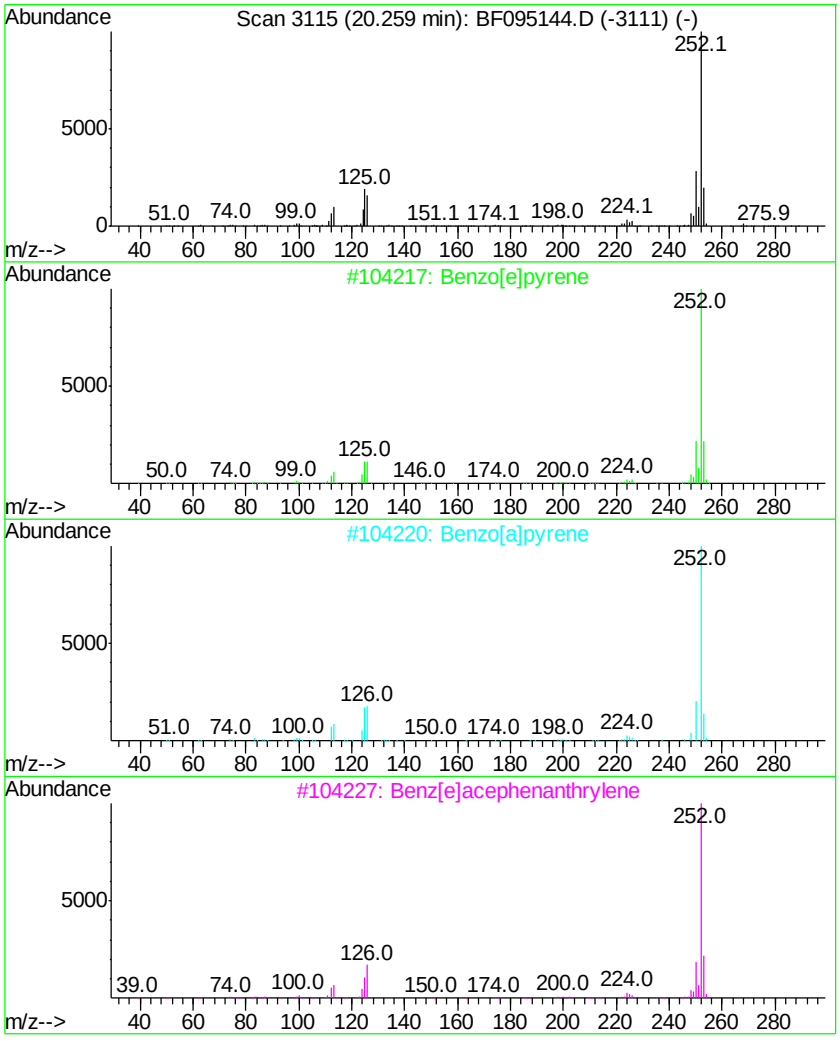
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

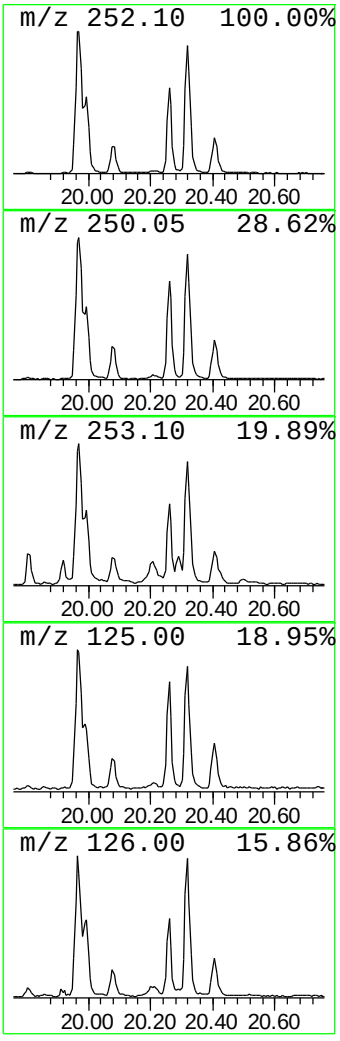
****

Peak Number 14 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.26	29.69 ng	580729	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	91
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

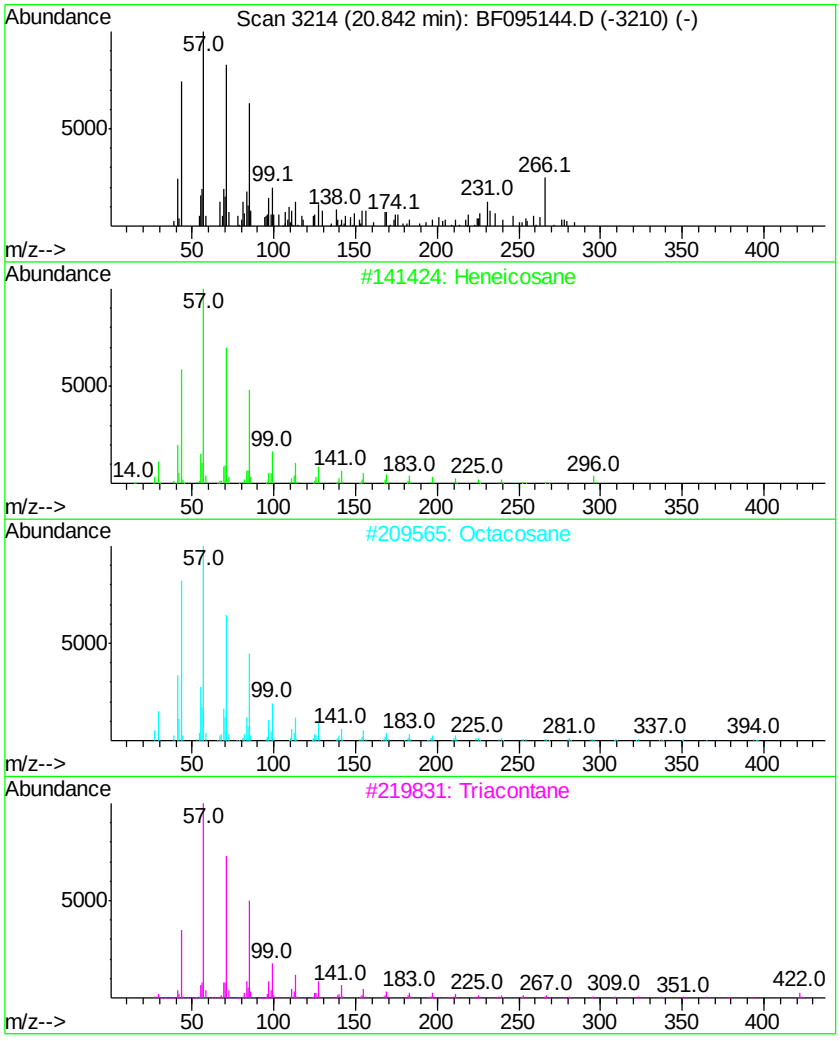
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

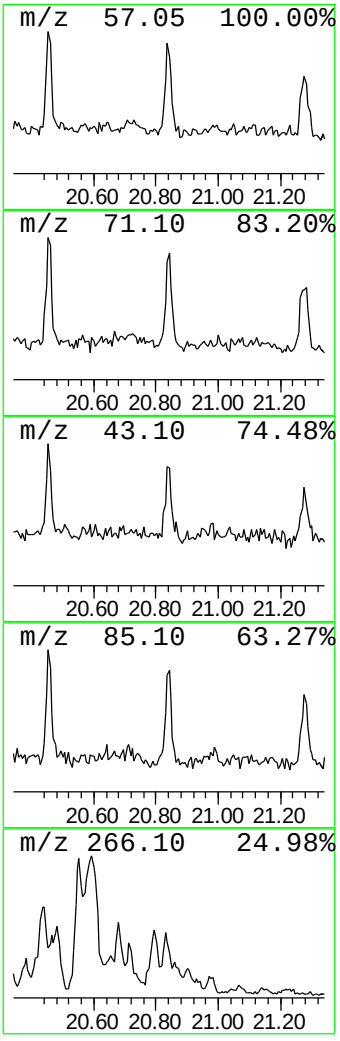
****

Peak Number 15 Heneicosane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.84	4.77 ng	93220	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	70
2	Octacosane	394	C28H58	000630-02-4	43
3	Triacontane	422	C30H62	000638-68-6	43
4	Octadecane	254	C18H38	000593-45-3	41
5	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

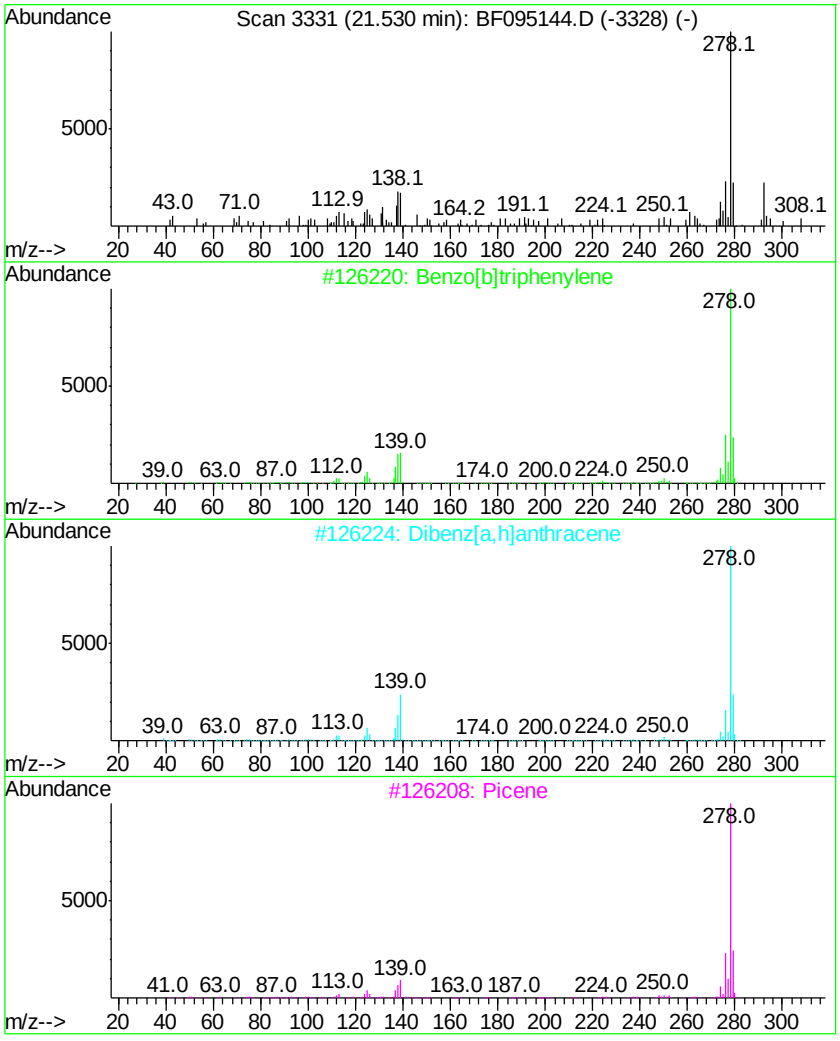
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

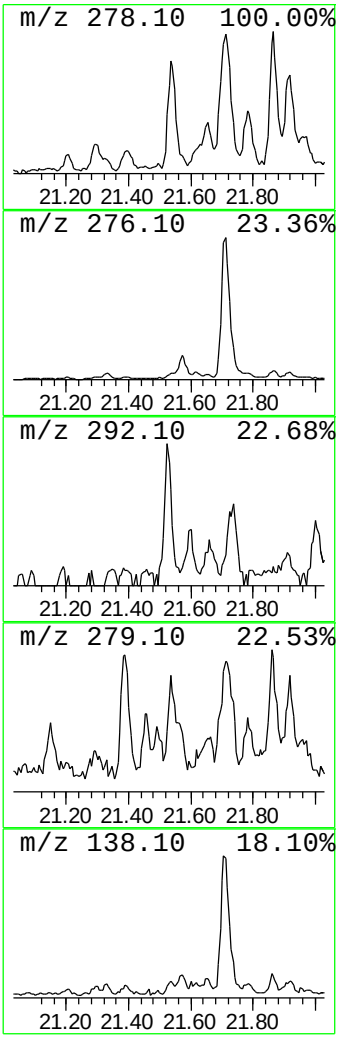
****

Peak Number 16 Benzo[b]triphenylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.53	4.36 ng	85249	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	60
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	58
3	Picene	278	C22H14	000213-46-7	55
4	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	52
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

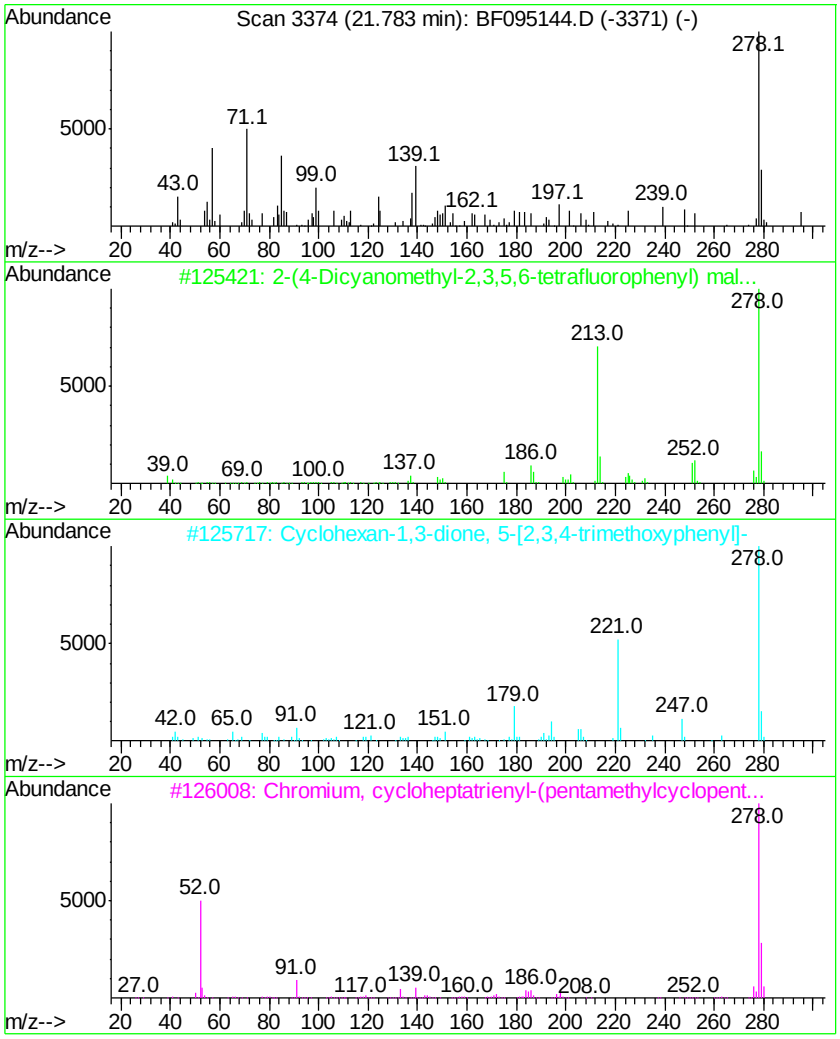
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

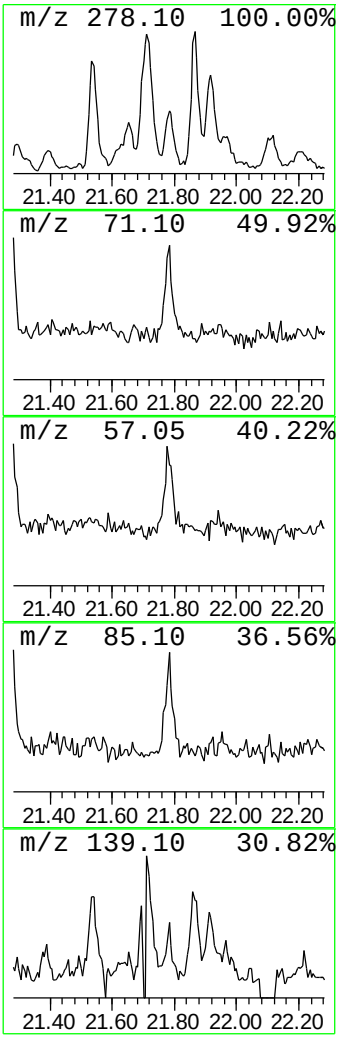
****

Peak Number 17 unknown21.78 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.78	3.81 ng	74554	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4-Dicyanomethyl-2,3,5,6-tetra...	278	C12H2F4N4	1000311-66-9	47
2	Cyclohexan-1,3-dione, 5-[2,3,4-t...	278	C15H18O5	119101-24-5	47
3	Chromium, cycloheptatrienyl-(pen...	278	C17H22Cr	1000157-07-5	43
4	Dibenz[a,j]anthracene	278	C22H14	000224-41-9	43
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

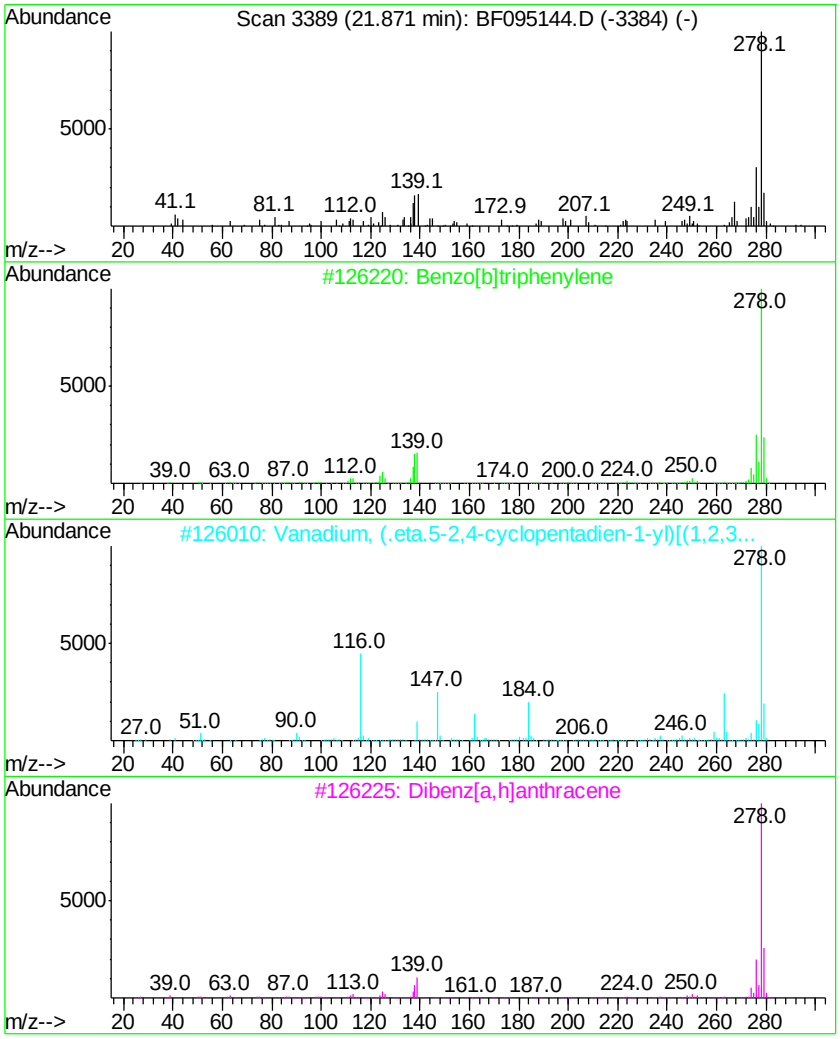
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

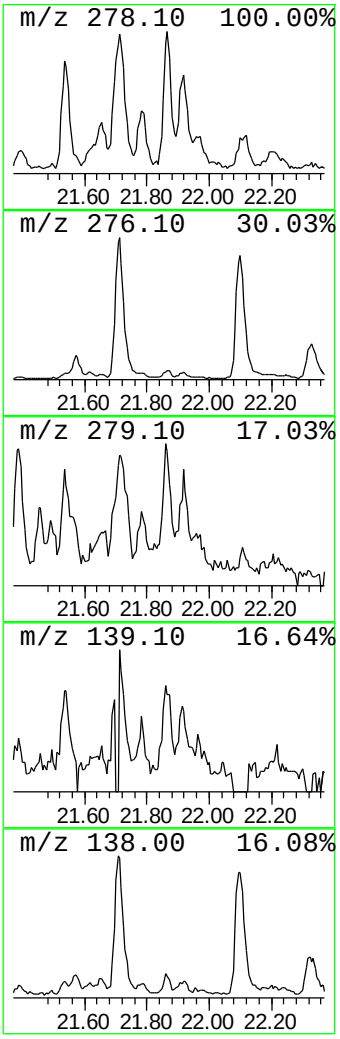
****

Peak Number 18 Vanadium, (.eta.5-2,4-cyclo... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.87	4.23 ng	82670	Perylene-d12	20.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
2	Vanadium, (.eta.5-2,4-cyclopenta...	278	C17H23V	126948-97-8	81
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	76
4	Picene	278	C22H14	000213-46-7	76
5	Pentaphene	278	C22H14	000222-93-5	68





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051517\
Data File : BF095144.D
Acq On : 16 May 2017 1:08
Operator : SJ/MA
Sample : I3140-15 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.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
unknown7.47	7.47	8.5	ng	165495	1	7.78	387974	20.0
Dibenzothiophene	14.87	5.4	ng	128386	4	15.03	474341	20.0
Phenanthrene, 2-m...	15.81	7.5	ng	178456	4	15.03	474341	20.0
Anthracene, 2-met...	15.85	9.5	ng	224367	4	15.03	474341	20.0
1H-Cyclopropa[l]p...	15.92	3.9	ng	92363	4	15.03	474341	20.0
Naphthalene, 2-ph...	16.25	5.7	ng	136032	4	15.03	474341	20.0
Phenanthrene, 2,5...	16.61	4.0	ng	95312	4	15.03	474341	20.0
11H-Benzo[a]fluorene	17.66	4.2	ng	417515	5	18.70	2008790	20.0
Tetratetracontane	19.75	3.7	ng	72758	6	20.38	391160	20.0
7,12-Dihydrobenzo...	19.81	6.6	ng	129459	6	20.38	391160	20.0
Benzo[e]pyrene	20.26	29.7	ng	580729	6	20.38	391160	20.0
Heneicosane	20.84	4.8	ng	93220	6	20.38	391160	20.0
Benzo[b]triphenylene	21.53	4.4	ng	85249	6	20.38	391160	20.0
unknown21.78	21.78	3.8	ng	74554	6	20.38	391160	20.0
Vanadium, (.eta.5...	21.87	4.2	ng	82670	6	20.38	391160	20.0