LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088340.D
Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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-BF060716.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	1.713	10	11	57	rVB	1006083	2237587	100.00%	6.351%
2	4.730	272	275	289	rBV	68174	160988	7.19%	0.457%
3	5.176	312	314	331	rBV	1438325	1855179	82.91%	5.266%
4	6.147	397	399	405	rBV	13519	40078	1.79%	0.114%
5	6.250	405	408	415	rBV	1237810	1833980	81.96%	5.206%
6	6.353	415	417	420	rBV	1523160	1859471	83.10%	5.278%
7	6.582	435	437	446	rVB	366949	461786	20.64%	1.311%
8	6.742	449	451	453	rBV	1445837	1651628	73.81%	4.688%
9	7.164	485	488	490	rBV	949653	1290994	57.70%	3.665%
10	7.873	547	550	555	rBV	527827	652208	29.15%	1.851%
11	8.685	618	621	628	rVB2	28168	43957	1.96%	0.125%
12	8.948	641	644	647	rBV	1994530	2186272	97.71%	6.206%
13	9.348	677	679	682	rBV	242988	231172	10.33%	0.656%
14	9.473	688	690	693	rBV	120690	143136	6.40%	0.406%
15	9.610	700	702	705	rBV	570593	681036	30.44%	1.933%
16	9.862	722	724	728	rVB2	24013	37819	1.69%	0.107%
17	9.930	728	730	732	rBV2	31532	41200	1.84%	0.117%
18	10.022	736	738	740	rBV3	22227	39503	1.77%	0.112%
19	10.056	740	741	743	rVB2	40672	40328	1.80%	0.114%
20	10.273	757	760	762	rBV	39428	47243	2.11%	0.134%
21	10.411	769	772	774	rBV2	853354	1265059	56.54%	3.591%
22	10.536	780	783	786	rVB	89879	155803	6.96%	0.442%
23	10.708	795	798	801	rBV4	22667	44026	1.97%	0.125%
24	10.833	806	809	814	rBV3	53152	154140	6.89%	0.438%
25	10.971	820	821	822	rVV	49474	44314	1.98%	0.126%
26	11.005	822	824	826	rVB2	32676	44063	1.97%	0.125%
27	11.096	829	832	836	rBV2	442013	881280	39.39%	2.502%
28	11.165	836	838	840	rVV	164374	167053	7.47%	0.474%
29	11.336	850	853	856	rBV2	72784	152319	6.81%	0.432%
30	11.393	856	858	865	rVB4	43368	99643	4.45%	0.283%
31	11.588	873	875	877	rBV	78395	118373	5.29%	0.336%
32	11.622	877	878	880	rVB	121174	98179	4.39%	0.279%
33	11.668	880	882	883	rBV	75481	73946	3.30%	0.210%
34	11.702	883	885	890	rVB	148116	280938	12.56%	0.797%

LSC Area Percent Report

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Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.805	890	894	898	rBV3	50996	127521	5.70%	0.362%
36	11.885	898	901	903	rVV2	72657	96489	4.31%	0.274%
37	11.919	903	904	906	rVB	57861	66908	2.99%	0.190%
38	12.034	911	914	915	rBV2	44796	56786	2.54%	0.161%
39	12.068	915	917	918	rVB	45527	38915	1.74%	0.110%
40	12.136	921	923	925	rBV	158465	190369	8.51%	0.540%
41	12.182	925	927	929	rVV3	86417	171127	7.65%	0.486%
42	12.228	929	931	935	rVB	126894	185701	8.30%	0.527%
43	12.296	935	937	940	rBV	1054583	1170904	52.33%	3.324%
44	12.365	940	943	944	rVV2	27872	43552	1.95%	0.124%
45	12.399	944	946	947	rVB	31870	41958	1.88%	0.119%
46	12.445	947	950	952	rBV2	64788	81331	3.63%	0.231%
47	12.525	954	957	961	rBV	1009608	1267548	56.65%	3.598%
48	12.582	961	962	964	rVB	81402	76307	3.41%	0.217%
49	12.674	965	970	974	rVB	1475989	1654961	73.96%	4.698%
50	12.742	974	976	979	rBV2	137836	230800	10.31%	0.655%
51	12.856	982	986	988	rVB2	156730	352955	15.77%	1.002%
52	12.914	988	991	993	rBV2	102776	189441	8.47%	0.538%
53	12.959	993	995	999	rVB	170263	264087	11.80%	0.750%
54	13.051	1001	1003	1004	rBV	80713	104286	4.66%	0.296%
55	13.074	1004	1005	1010	rVB3	96491	164119	7.33%	0.466%
56	13.154	1010	1012	1015	rVB3	57391	113007	5.05%	0.321%
57	13.257	1015	1021	1026	rBV5	67759	241571	10.80%	0.686%
58	13.371	1029	1031	1034	rVB	145413	196456	8.78%	0.558%
59	13.474	1037	1040	1043	rBV2	133979	329621	14.73%	0.936%
60	13.577	1047	1049	1053	rVB2	184331	264500	11.82%	0.751%
61	13.645	1053	1055	1058	rBV3	45112	90155	4.03%	0.256%
62	13.714	1058	1061	1063	rBV2	805744	1421032	63.51%	4.034%
63	13.748	1063	1064	1068	rVB	569224	486337	21.73%	1.380%
64	13.817	1068	1070	1072	rVB2	37219	58907	2.63%	0.167%
65	13.874	1074	1075	1079	rBV3	48700	108515	4.85%	0.308%
66	14.102	1091	1095	1097	rBV	165995	326630	14.60%	0.927%
67	14.228	1104	1106	1110	rVB3	116217	191674	8.57%	0.544%
68	14.297	1110	1112	1115	rVB3	48721	82084	3.67%	0.233%
69	14.422	1119	1123	1127	rBV3	72067	193608	8.65%	0.550%
70	14.502	1127	1130	1133	rBV3	44489	114475	5.12%	0.325%
71	14.548	1133	1134	1135	rBV	48059	58956	2.63%	0.167%

LSC Area Percent Report

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Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.582	1135	1137	1139	rVV	95955	104207	4.66%	0.296%
73	14.628	1139	1141	1142	rVB2	43115	49882	2.23%	0.142%
74	14.720	1146	1149	1153	rBV	703093	1313885	58.72%	3.729%
75	14.777	1153	1154	1155	rVV	76823	66990	2.99%	0.190%
76	14.811	1155	1157	1162	rVB	145759	208655	9.33%	0.592%
77	14.880	1162	1163	1166	rBV2	34413	78767	3.52%	0.224%
78	14.971	1169	1171	1174	rVB	390243	451688	20.19%	1.282%
79	15.028	1174	1176	1179	rBV	420394	522802	23.36%	1.484%
80	15.074	1179	1180	1186	rVB2	276567	573979	25.65%	1.629%
81	15.234	1192	1194	1195	rBV	32015	43567	1.95%	0.124%
82	15.268	1195	1197	1200	rVB3	54877	81795	3.66%	0.232%
83	15.348	1201	1204	1206	rBV2	39127	61950	2.77%	0.176%
84	15.451	1211	1213	1216	rBV	48156	86800	3.88%	0.246%
85	15.554	1221	1222	1227	rVB3	37176	72770	3.25%	0.207%
86	15.805	1241	1244	1250	rBV7	22757	78674	3.52%	0.223%
87	15.977	1256	1259	1261	rBV4	22492	49123	2.20%	0.139%
88	16.068	1265	1267	1270	rVV2	31967	65259	2.92%	0.185%
89	16.160	1272	1275	1277	rVV2	45608	91939	4.11%	0.261%
90	16.240	1280	1282	1286	rVV3	21548	39791	1.78%	0.113%
91	16.331	1286	1290	1294	rVV	210624	409462	18.30%	1.162%
92	16.388	1294	1295	1298	rVB	29967	37338	1.67%	0.106%
93	16.468	1298	1302	1304	rBV2	49708	108732	4.86%	0.309%
94	16.525	1304	1307	1310	rVB2	32026	65981	2.95%	0.187%
95	16.697	1320	1322	1326	rBV	110539	235352	10.52%	0.668%
96	16.914	1338	1341	1348	rVB3	25417	69255	3.10%	0.197%
97	17.074	1353	1355	1362	rVB6	14508	45982	2.05%	0.131%
98	17.577	1395	1399	1405	rVB3	33415	85019	3.80%	0.241%
99	18.606	1484	1489	1494	rBV	23785	81335	3.63%	0.231%
100	18.777	1500	1504	1509	rBV	19340	80442	3.60%	0.228%

Sum of corrected areas: 35229715

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
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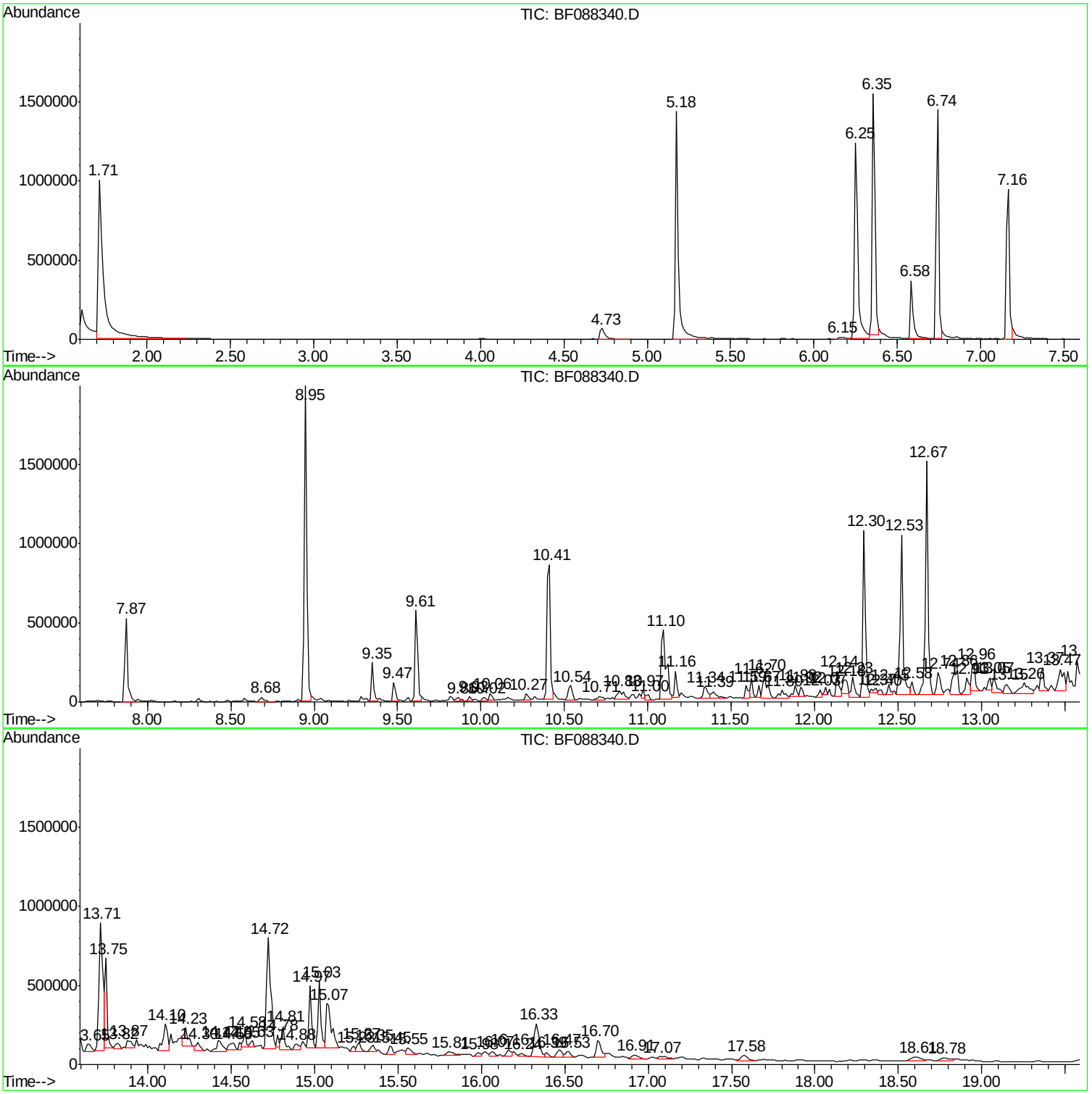
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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\BF062416\
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Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

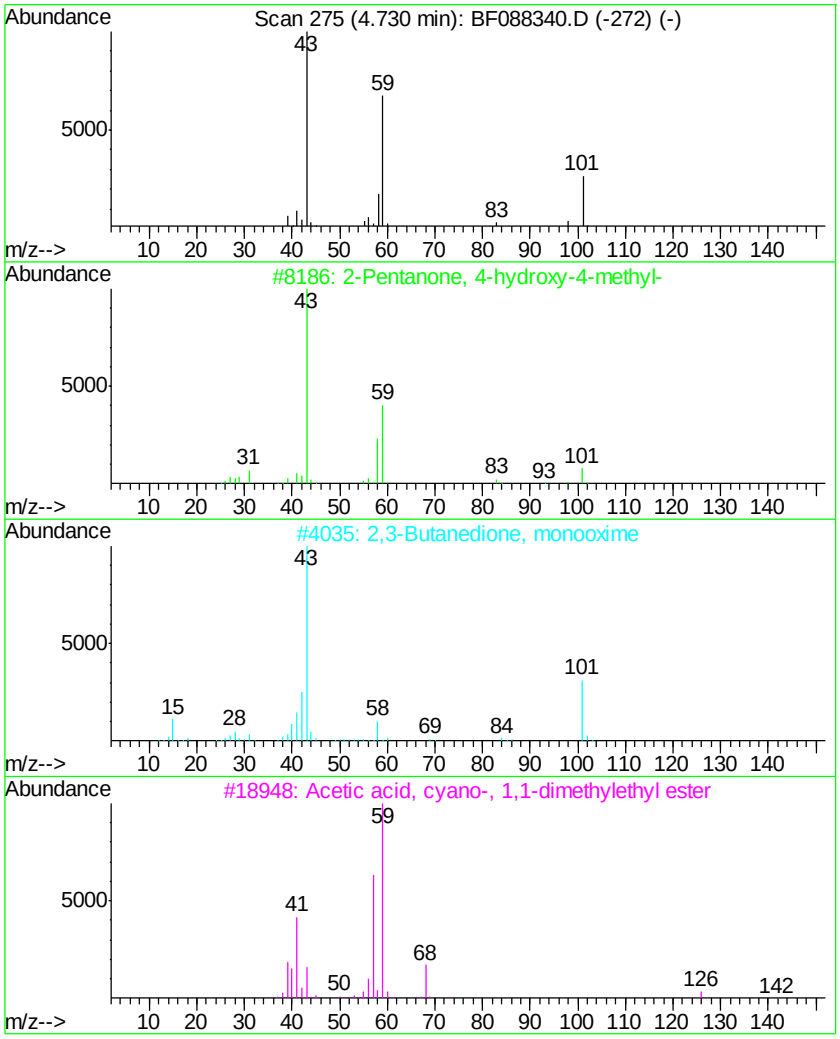
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

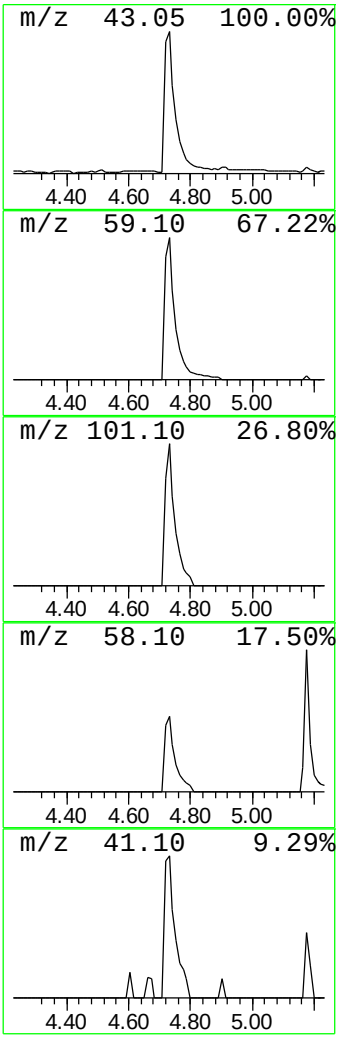
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.73	6.97 ng	160988	1,4-Dichlorobenzene-d4	6.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088340.D
Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

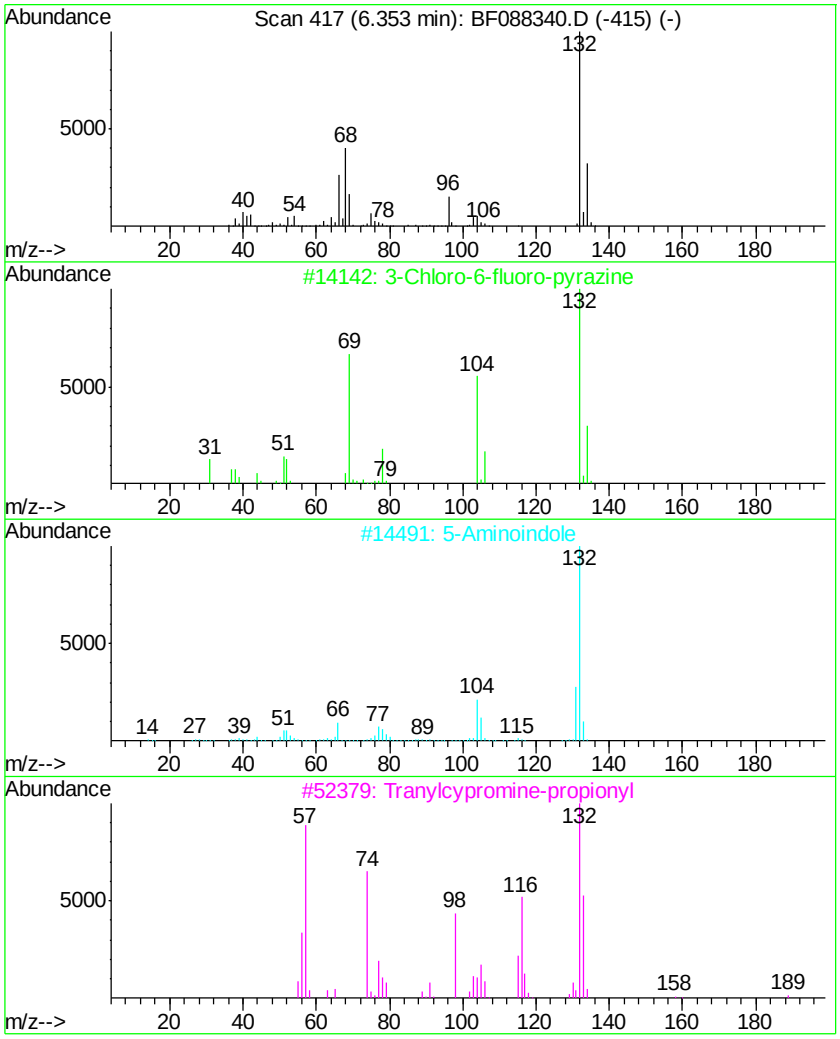
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

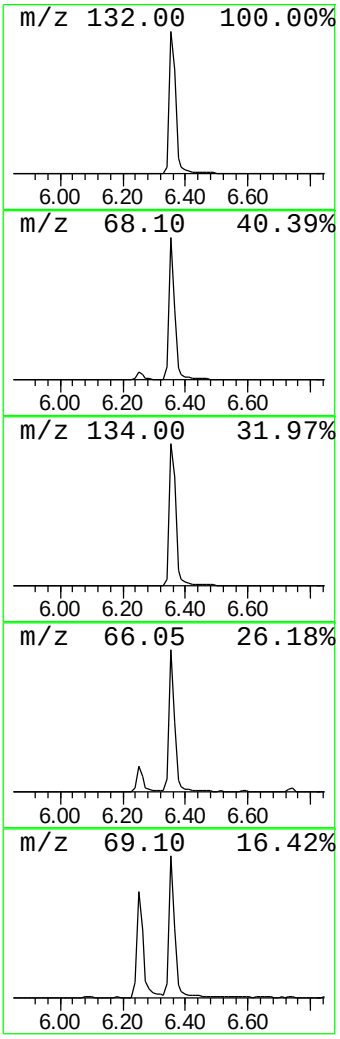
****

Peak Number 3 unknown6.35 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.35	80.53 ng	1859470	1,4-Dichlorobenzene-d4	6.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088340.D
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Misc :
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Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

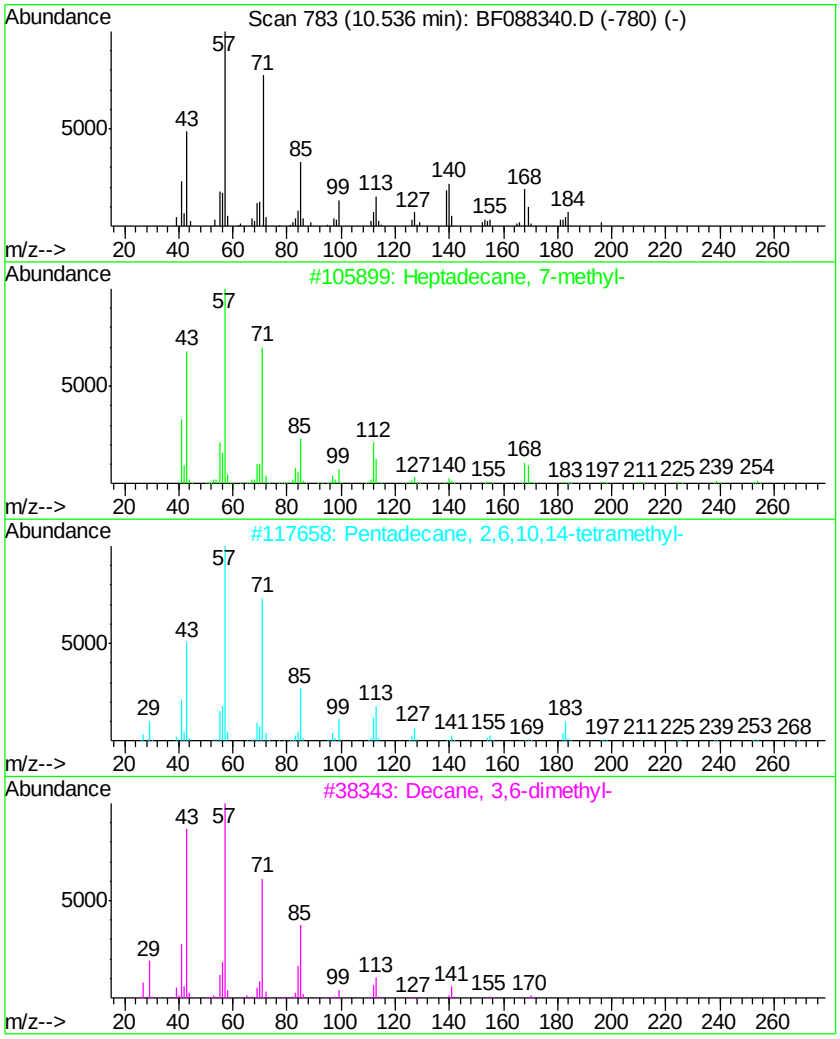
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

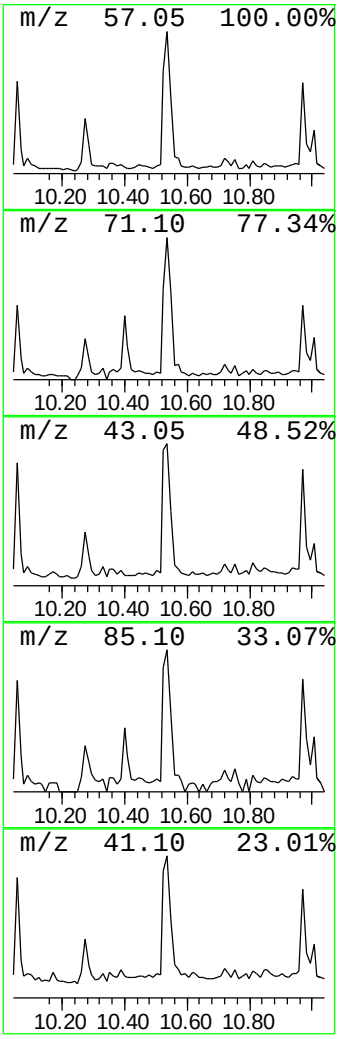
****

Peak Number 5 Heptadecane, 7-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	3.54 ng	155803	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 7-methyl-	254	C18H38	020959-33-5	72
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	62
3	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	62
4	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	62
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	58





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Sample : H3599-17
Misc :
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Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
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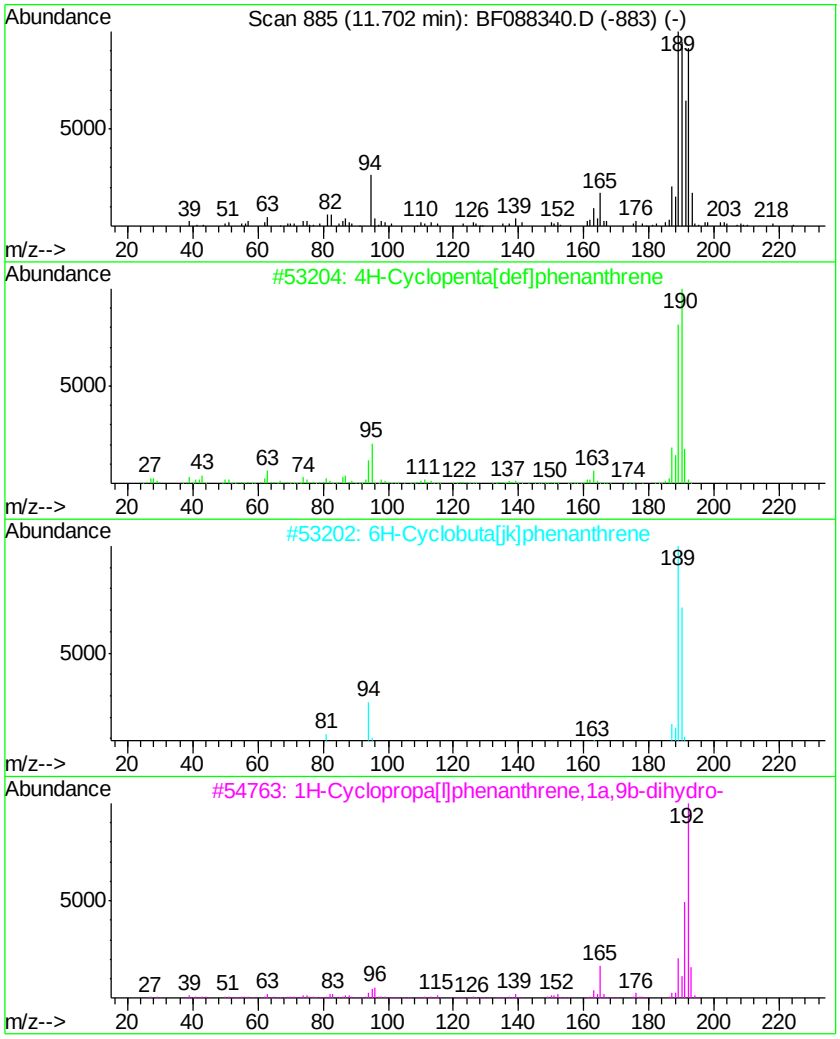
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

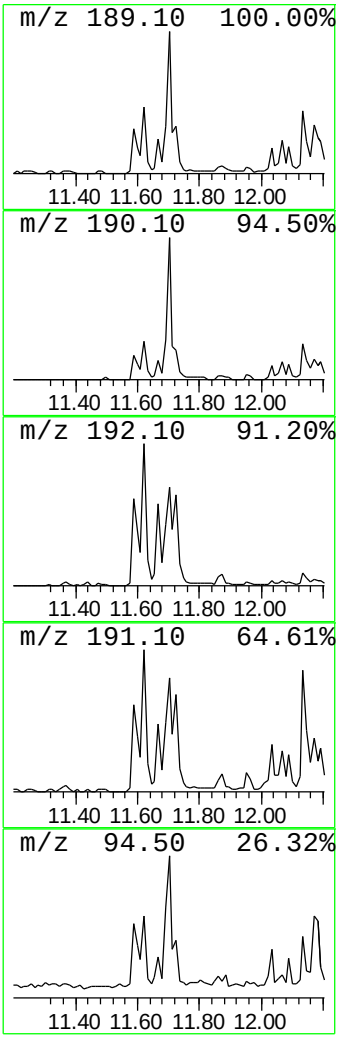
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	6.38 ng	280938	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	46
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088340.D
Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

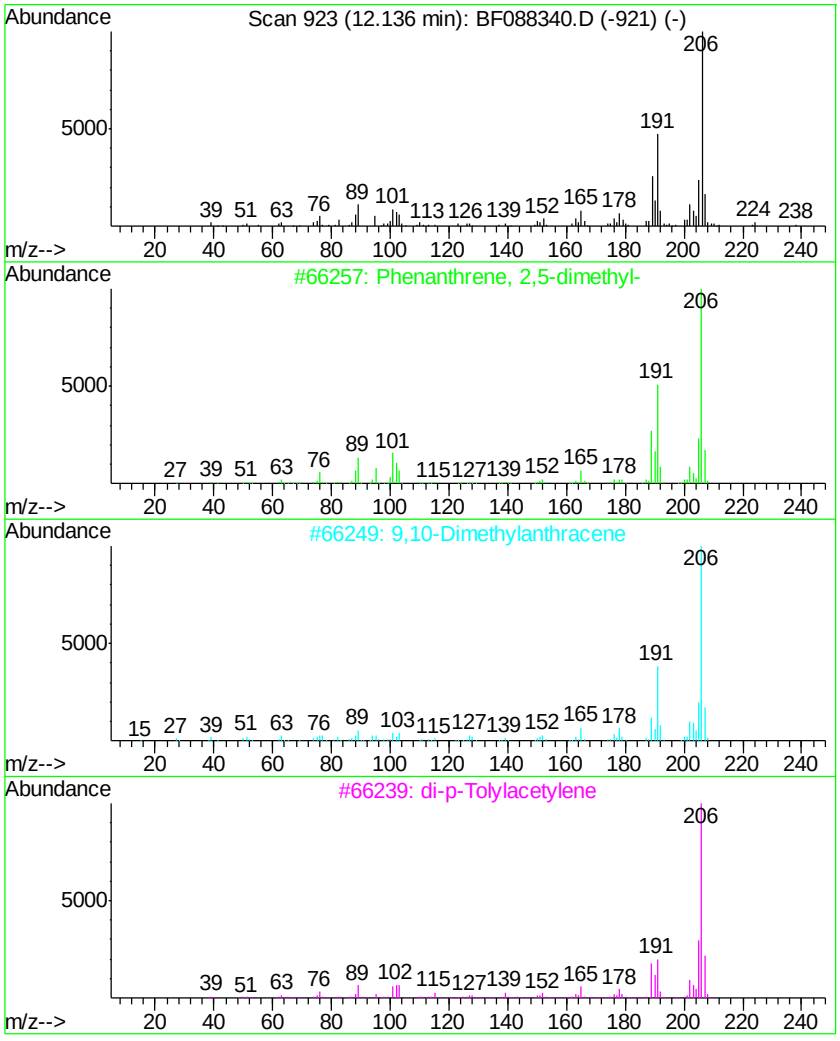
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

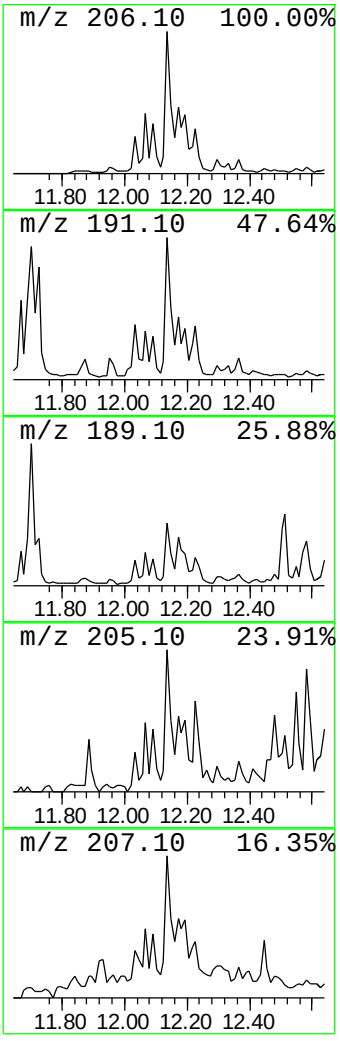
****

Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	4.32 ng	190369	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





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Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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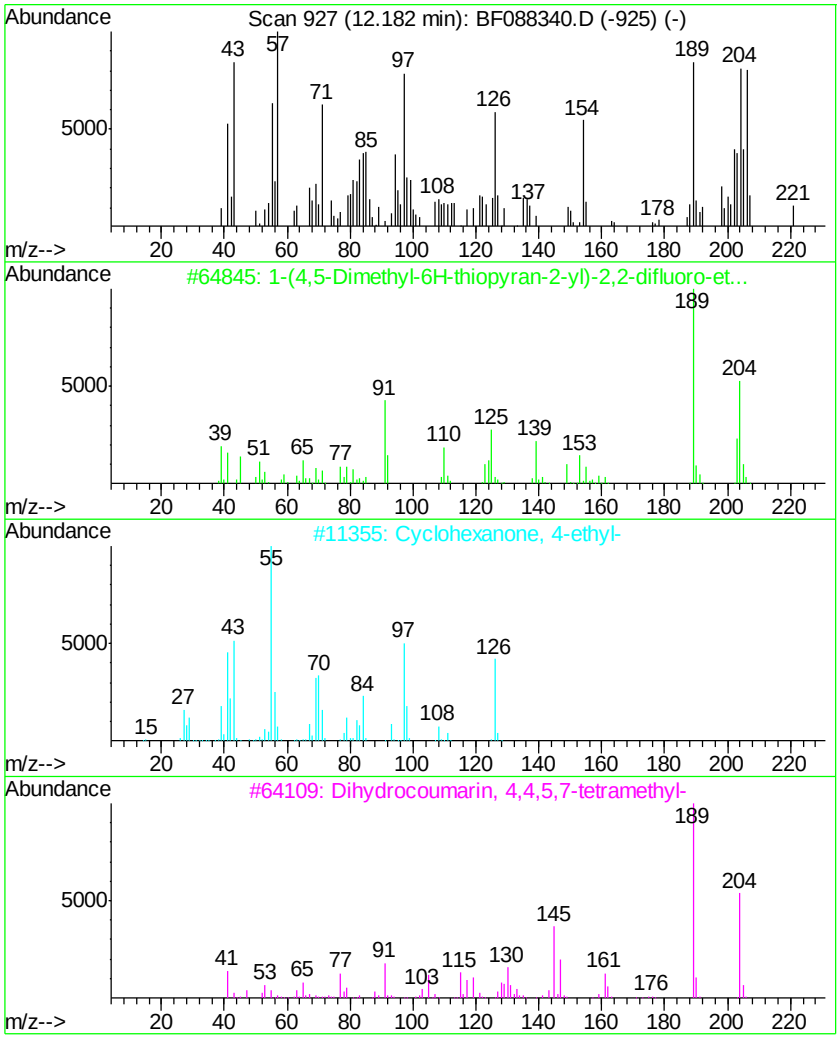
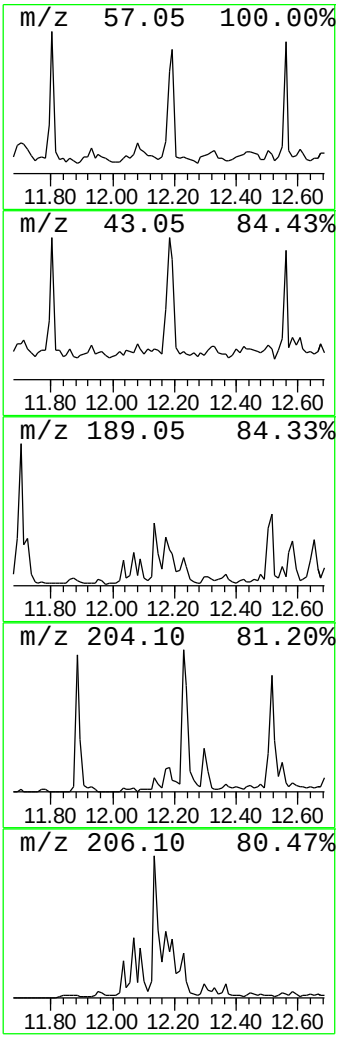
Peak Number 8 unknown12.18 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	3.88 ng	171127	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4,5-Dimethyl-6H-thiopyran-2-y...	204	C9H10F2OS	1000318-25-0	30
2	Cyclohexanone, 4-ethyl-	126	C8H14O	005441-51-0	25
3	Dihydrocoumarin, 4,4,5,7-tetrame...	204	C13H16O2	040662-14-4	18
4	Naphthalene, 1,2,4a,5,8,8a-hexah...	204	C15H24	005951-61-1	18
5	2-Furancarboxaldehyde, 5-(2-chlo...	206	C11H7ClO2	034035-04-6	15





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Sample : H3599-17
Misc :
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Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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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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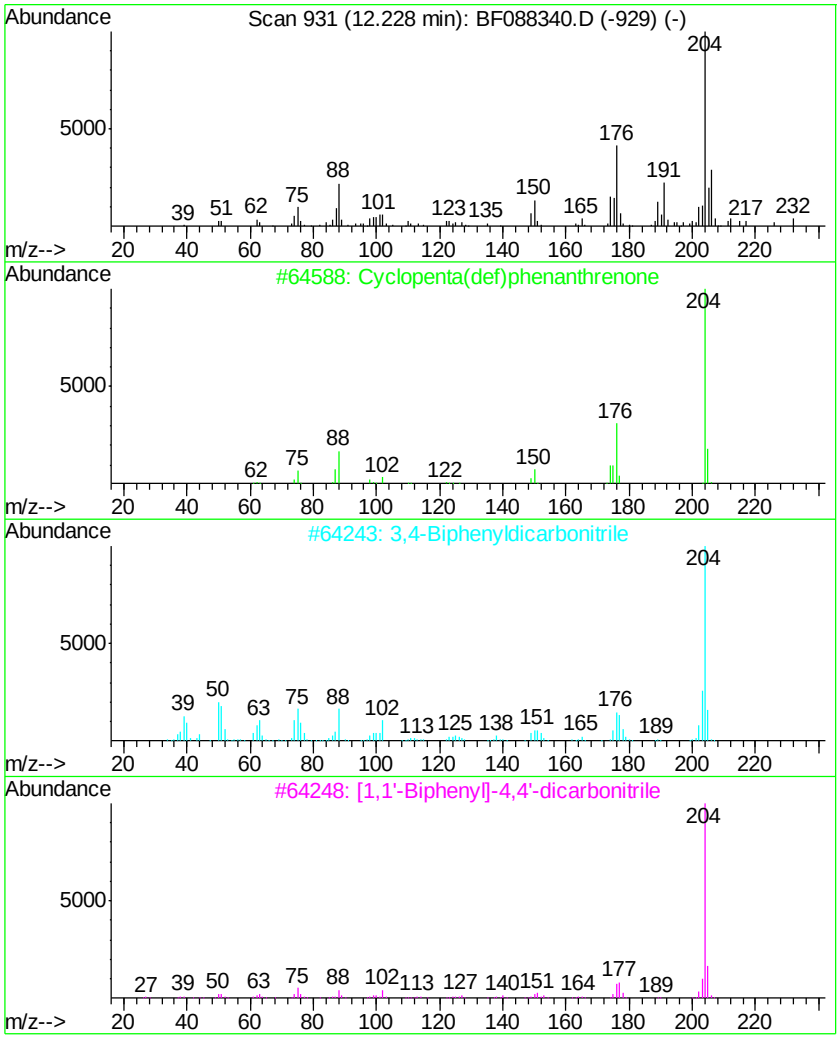
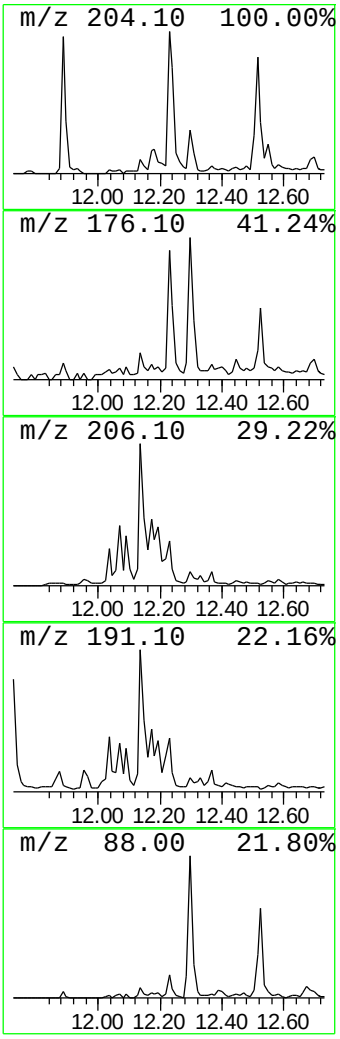
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	4.21 ng	185701	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46
4	Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	43
5	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	40





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Misc :
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ClientSampleId : PM-STA-1432(0-4)

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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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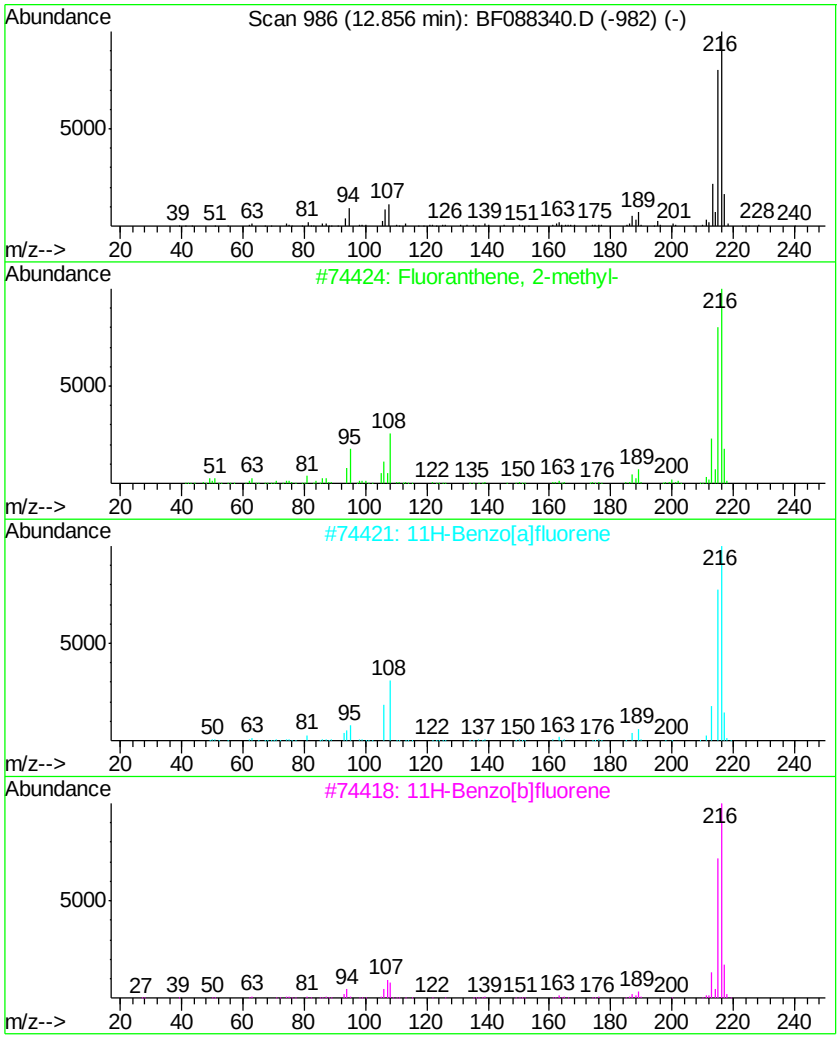
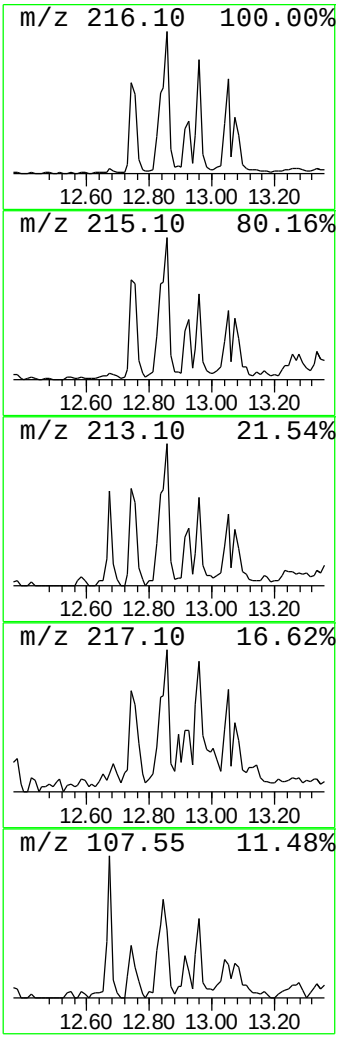
Peak Number 10 Fluoranthene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	4.97 ng	352955	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	59





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Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

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ClientSampleId : PM-STA-1432(0-4)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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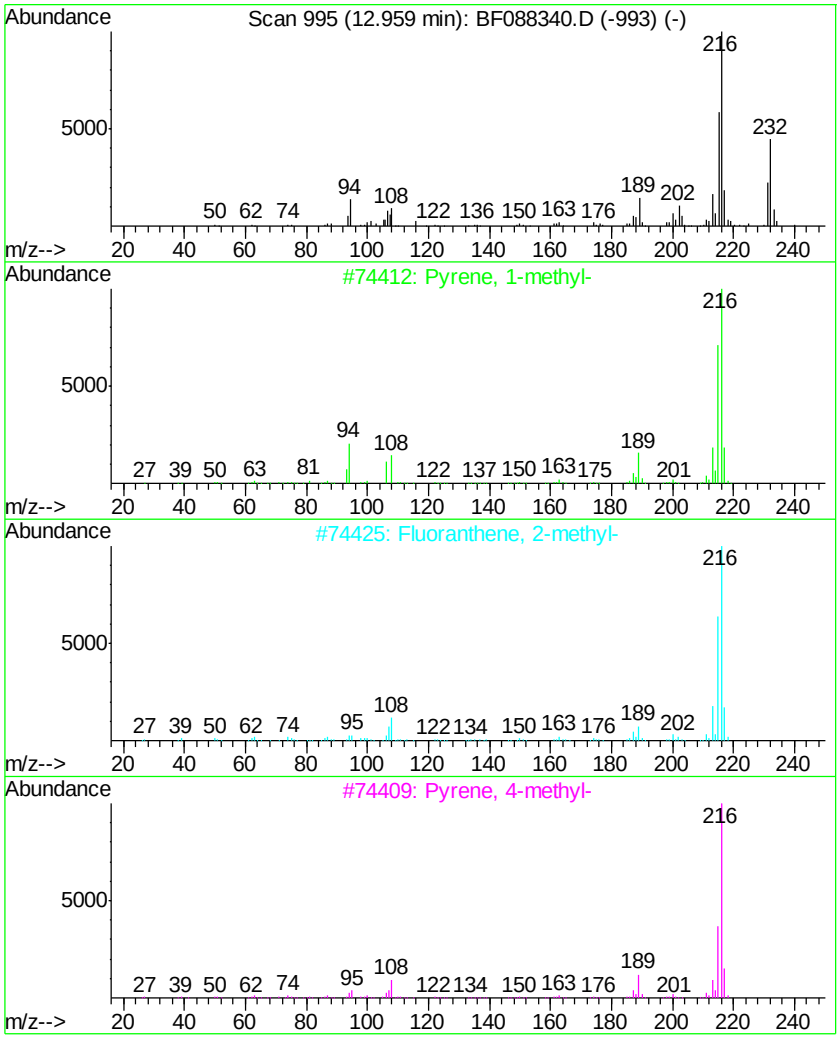
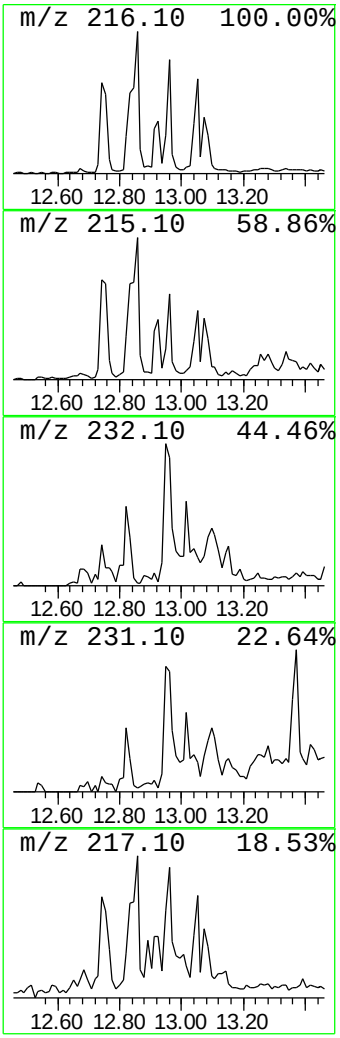
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	3.72 ng	264087	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64





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Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
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TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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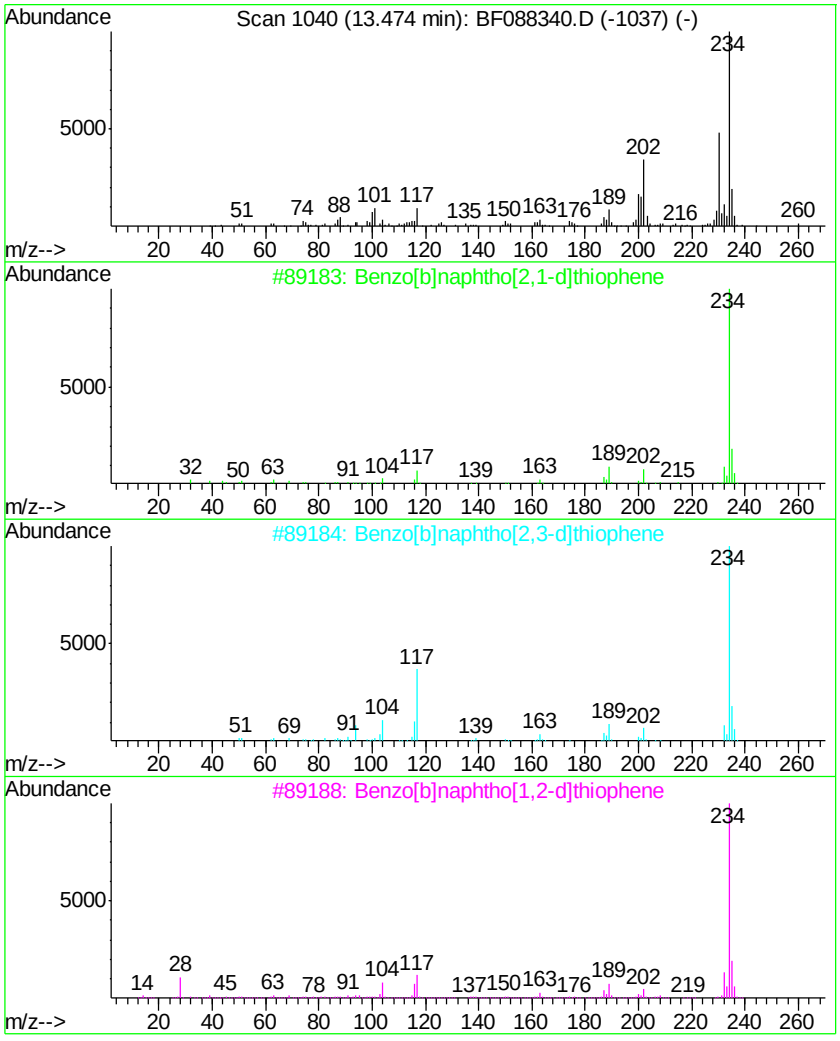
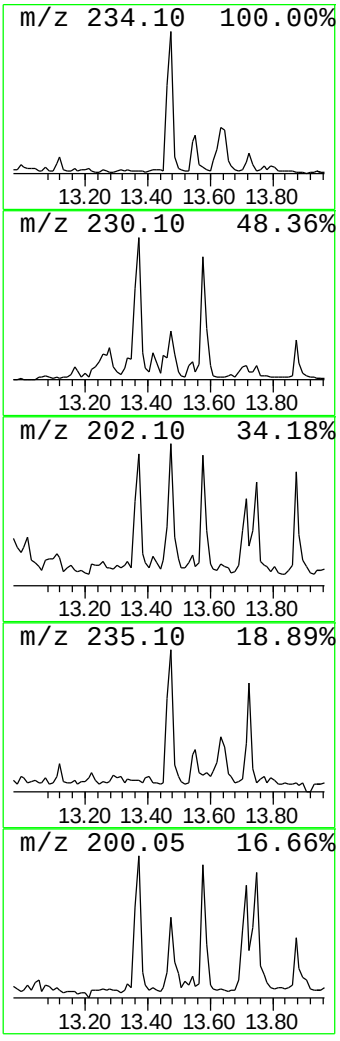
Peak Number 12 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	4.64 ng	329621	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	64
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	60
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	55
4	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	49
5	4-Thiazoline, 4-(benzo[b]1,4-dio...	234	C11H10N2O2S	105362-06-9	35





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ALS Vial : 10 Sample Multiplier: 1

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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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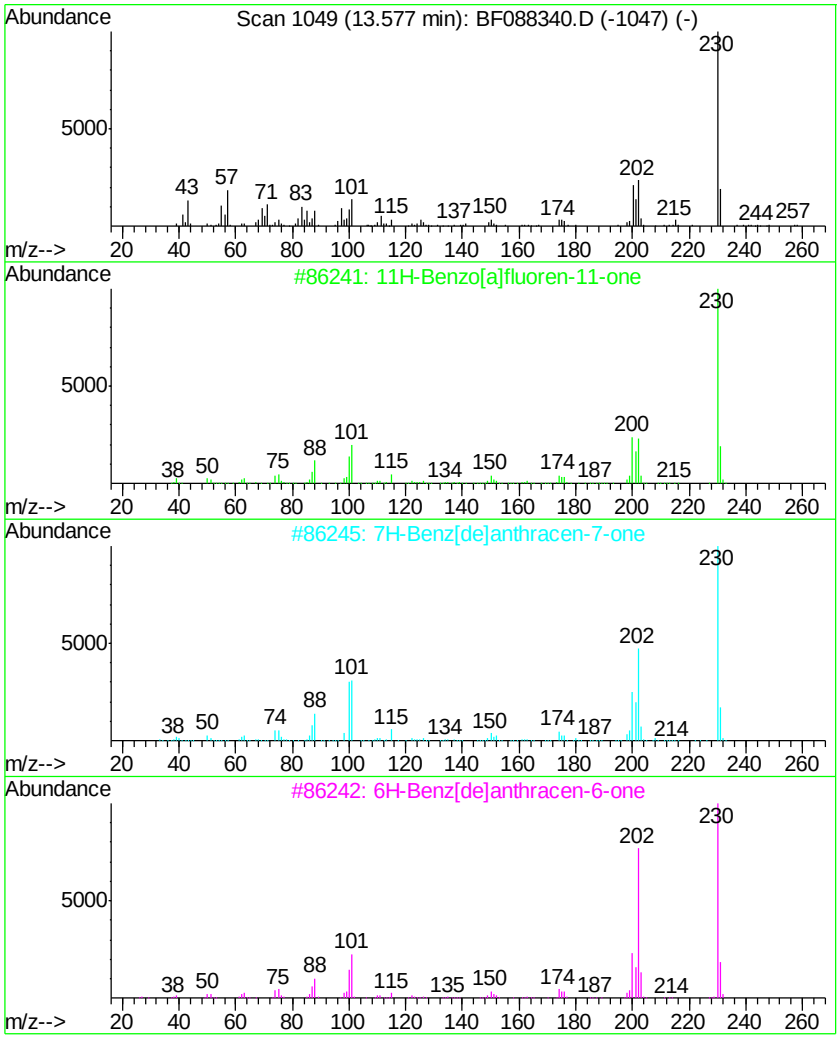
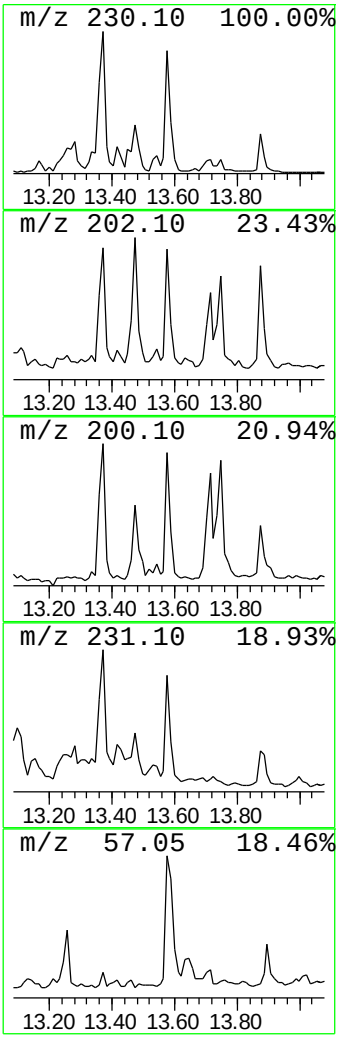
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.72 ng	264500	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	98
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	86
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	83
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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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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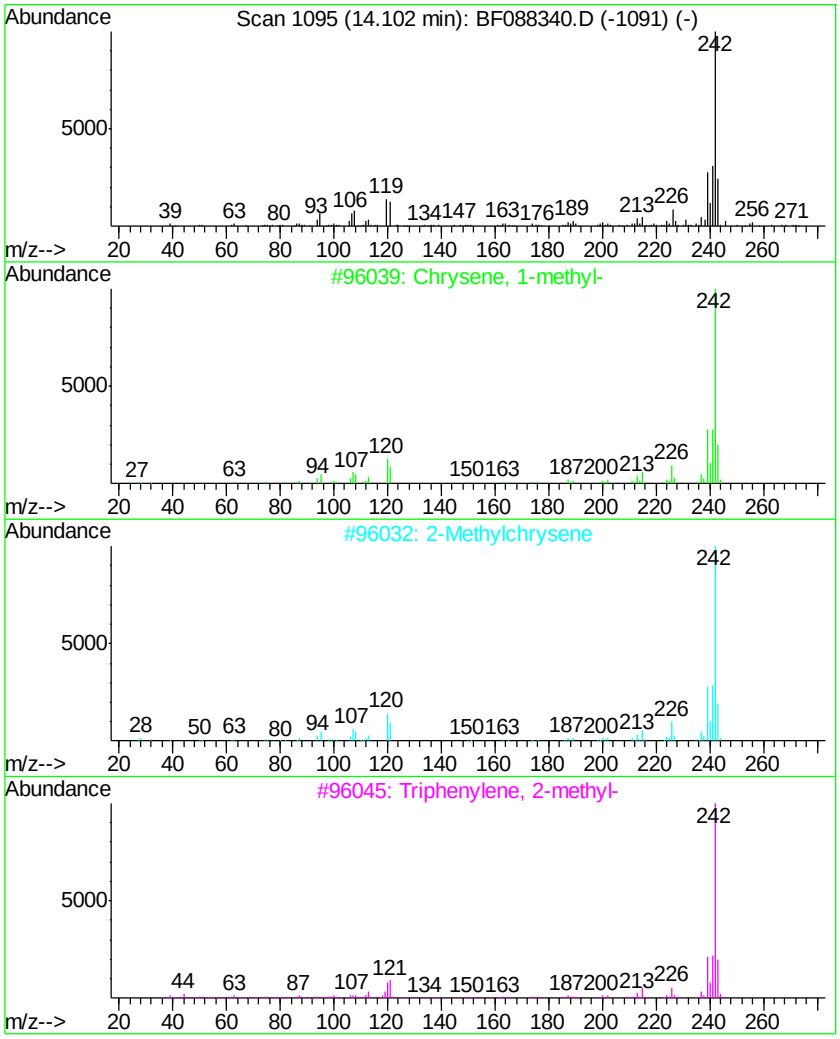
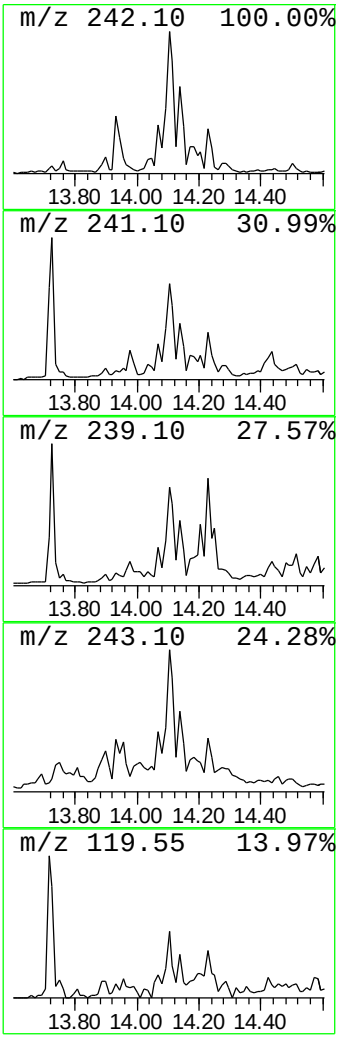
Peak Number 14 Chrysene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	4.60 ng	326630	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
2	2-Methylchrysene	242	C19H14	003351-32-4	92
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	90





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Misc :
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Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

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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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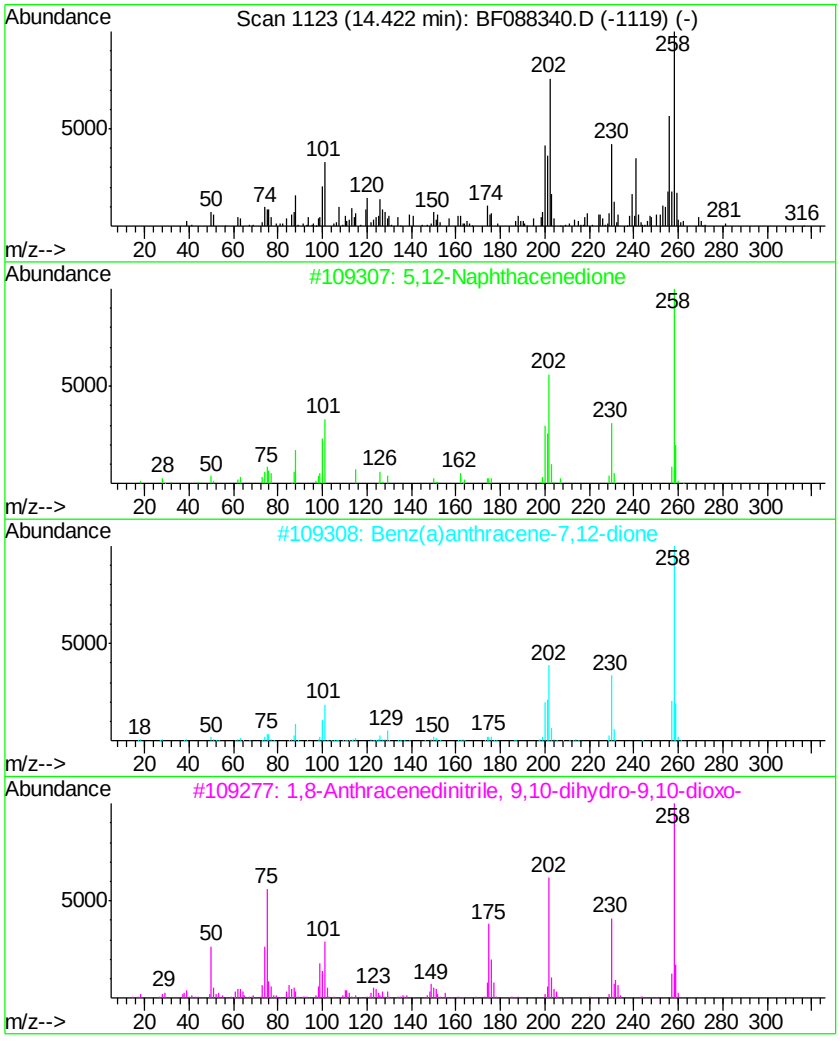
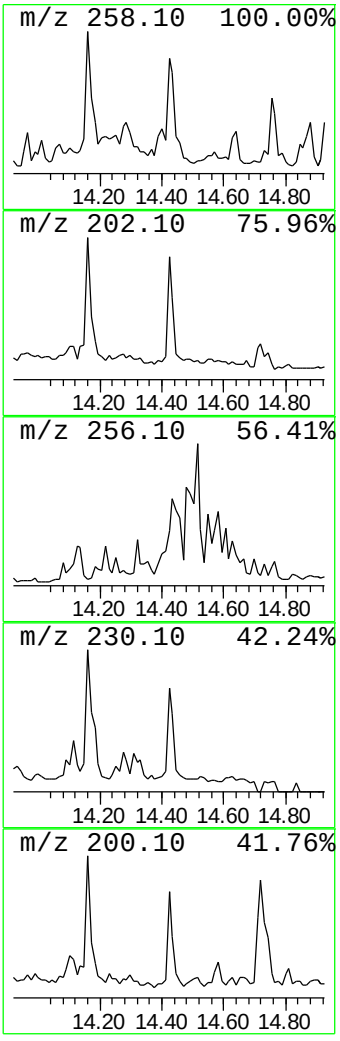
Peak Number 15 5,12-Naphthacenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.42	6.75 ng	193608	Perylene-d12	15.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	94
2	Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	94
3	1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	47
4	Pyrene	202	C16H10	000129-00-0	38
5	1,4-Chrysenequinone	258	C18H10O2	100900-16-1	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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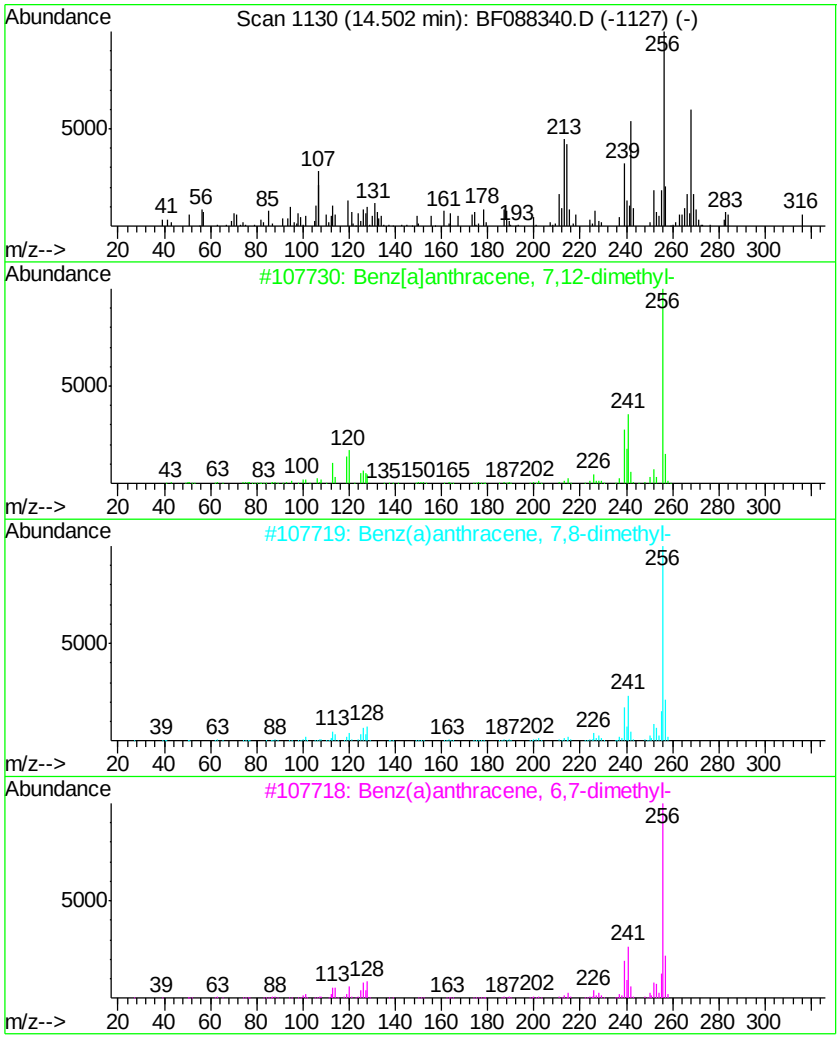
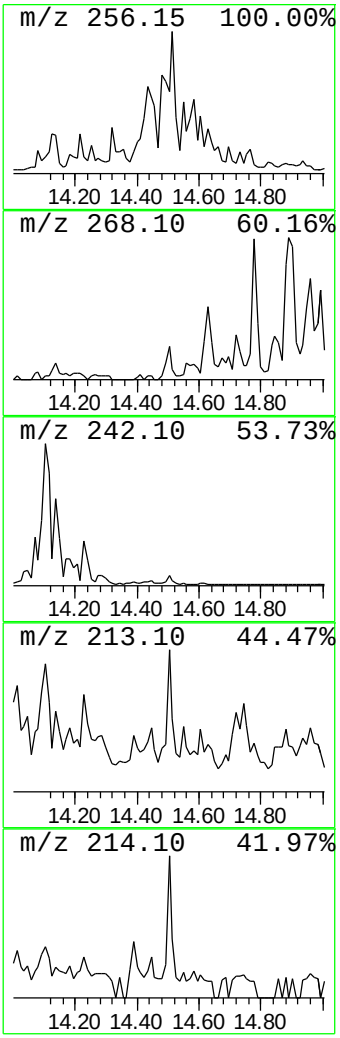
Peak Number 16 Benz[a]anthracene, 7,12-dim... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.50	3.99 ng	114475	Perylene-d12	15.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	55
2	Benz(a)anthracene, 7,8-dimethyl-	256	C20H16	000604-81-9	47
3	Benz(a)anthracene, 6,7-dimethyl-	256	C20H16	020627-28-5	38
4	4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	38
5	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	38





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Misc :
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Instrument : BNA_F
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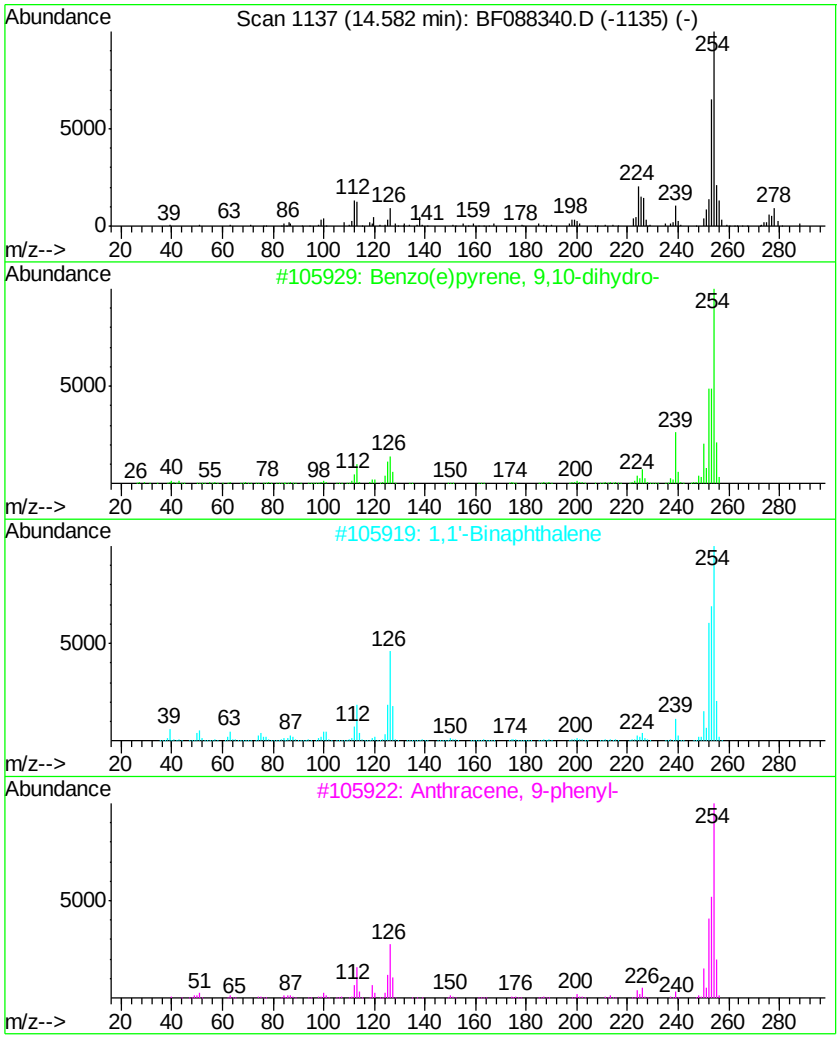
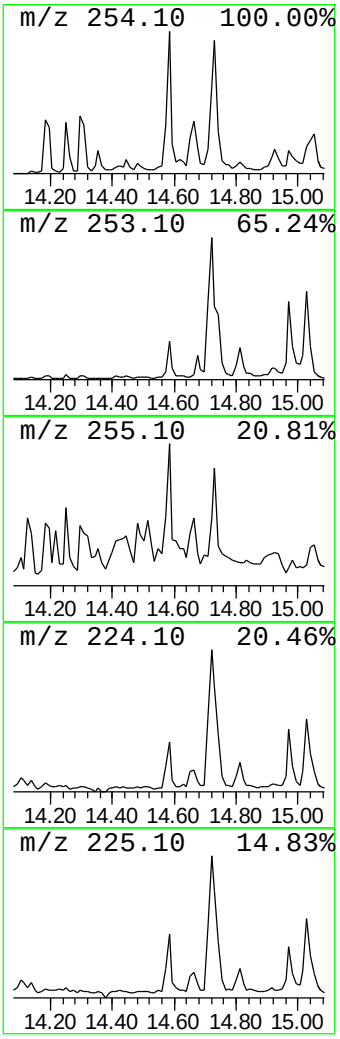
Peak Number 17 Benzo(e)pyrene, 9,10-dihydro- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.58	3.63 ng	104207	Perylene-d12	15.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	64
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	62
3	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	59
4	Imidazo[1,2-b]-1,2,4-triazine, 6...	254	C14H14N4O	1000277-24-4	59
5	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	58





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TIC Library : C:\Database\NIST11.L
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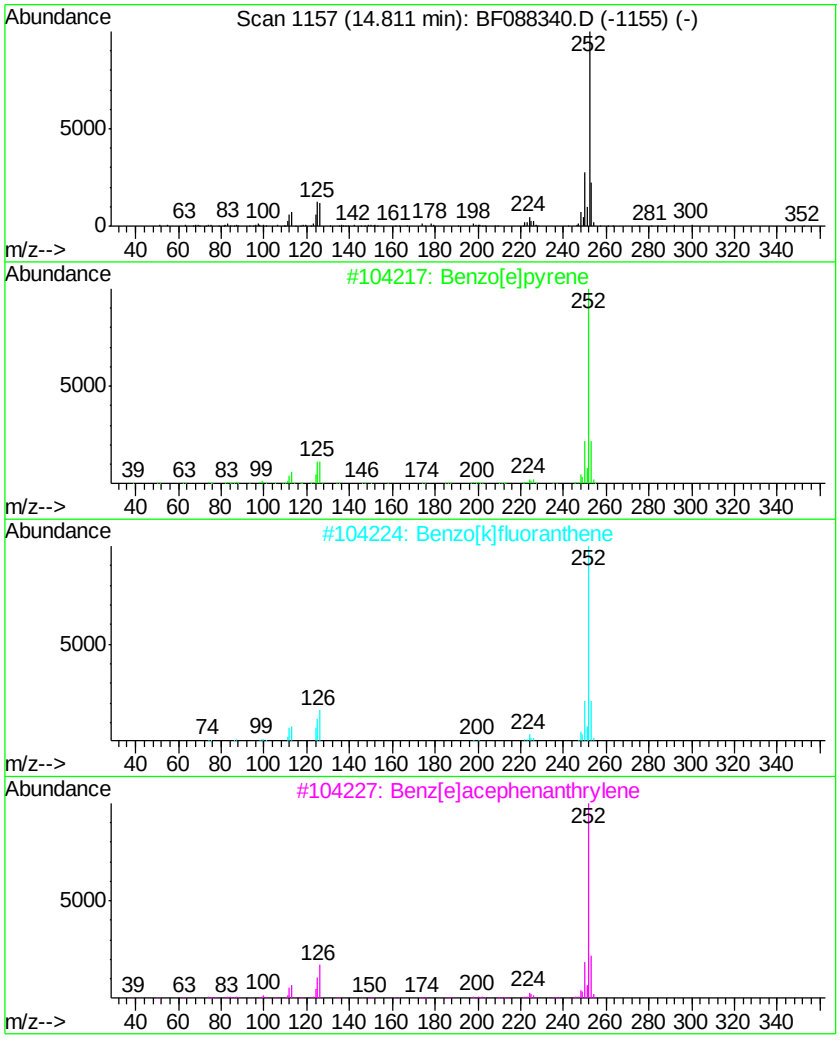
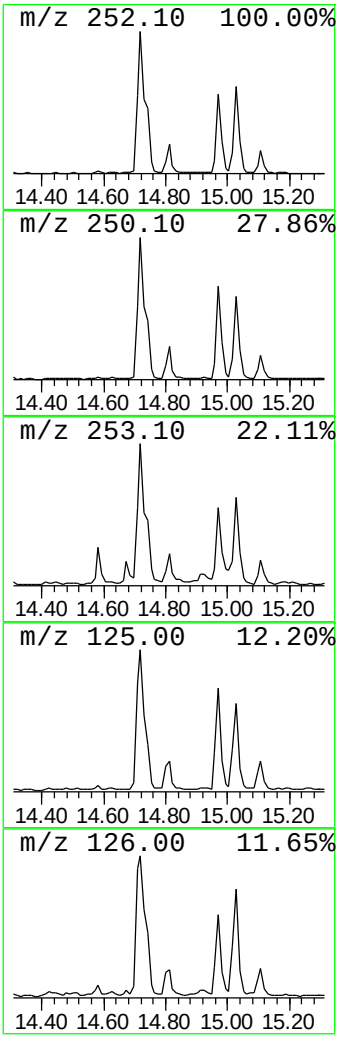
Peak Number 18 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.81	7.27 ng	208655	Perylene-d12	15.09

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	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Perylene	252	C20H12	000198-55-0	87





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Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
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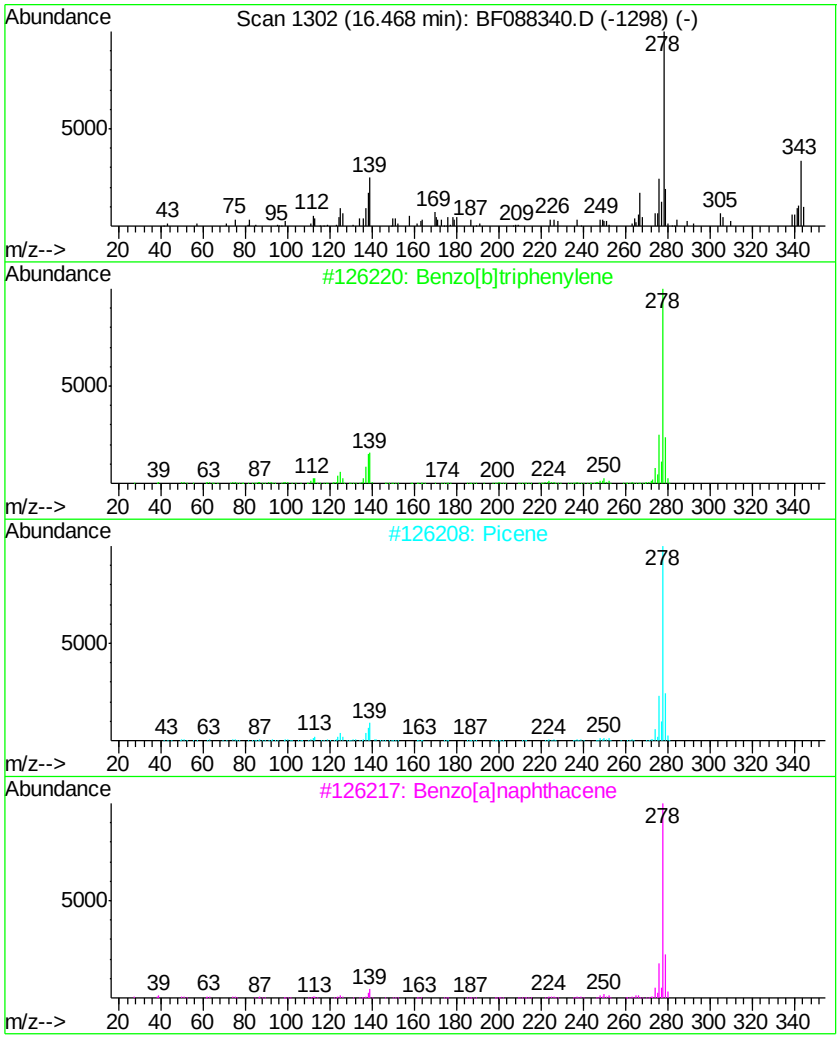
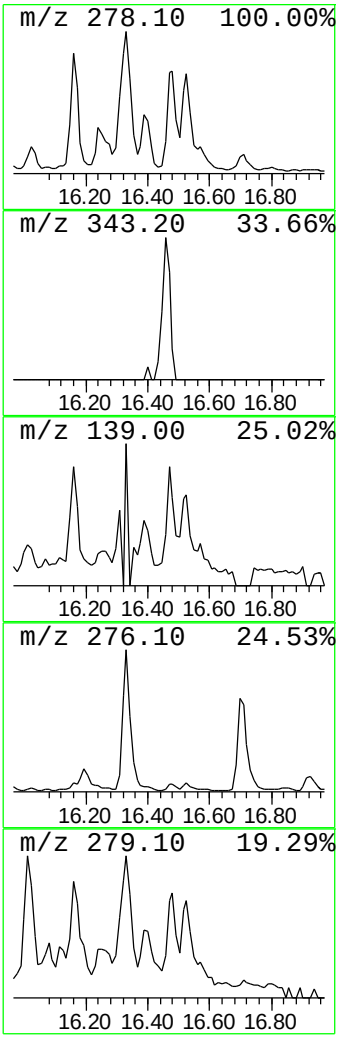
Peak Number 20 Benzo[b]triphenylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.47	3.79 ng	108732	Perylene-d12	15.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	78
2	Picene	278	C22H14	000213-46-7	78
3	Benzo[a]naphthacene	278	C22H14	000226-88-0	60
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	60
5	Pentacene	278	C22H14	000135-48-8	60





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088340.D
Acq On : 24 Jun 2016 19:22
Operator : UM/SJ
Sample : H3599-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PM-STA-1432(0-4)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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...	4.73	7.0	ng	160988	1	6.58	461786	20.0
unknown6.35	6.35	80.5	ng	1859470	1	6.58	461786	20.0
Heptadecane, 7-me...	10.54	3.5	ng	155803	4	11.10	881280	20.0
4H-Cyclopenta[def...	11.70	6.4	ng	280938	4	11.10	881280	20.0
Phenanthrene, 2,5...	12.14	4.3	ng	190369	4	11.10	881280	20.0
unknown12.18	12.18	3.9	ng	171127	4	11.10	881280	20.0
Cyclopenta(def)ph...	12.23	4.2	ng	185701	4	11.10	881280	20.0
Fluoranthene, 2-m...	12.86	5.0	ng	352955	5	13.73	1421030	20.0
Pyrene, 1-methyl-	12.96	3.7	ng	264087	5	13.73	1421030	20.0
Benzo[b]naphtho[2...	13.47	4.6	ng	329621	5	13.73	1421030	20.0
11H-Benzo[a]fluor...	13.58	3.7	ng	264500	5	13.73	1421030	20.0
Chrysene, 1-methyl-	14.10	4.6	ng	326630	5	13.73	1421030	20.0
5,12-Naphthacened...	14.42	6.8	ng	193608	6	15.09	573979	20.0
Benz[a]anthracene...	14.50	4.0	ng	114475	6	15.09	573979	20.0
Benzo(e)pyrene, 9...	14.58	3.6	ng	104207	6	15.09	573979	20.0
Benzo[e]pyrene	14.81	7.3	ng	208655	6	15.09	573979	20.0
Benzo[b]triphenylene	16.47	3.8	ng	108732	6	15.09	573979	20.0