LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

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-BM031516.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	6.999	727	733	743	rVB	178704	277369	9.58%	0.759%
2	7.175	757	763	770	rVB	143149	220216	7.60%	0.602%
3	7.369	790	796	805	rVB	178011	286708	9.90%	0.784%
4	7.840	870	876	883	rVB	255651	405678	14.01%	1.110%
5	8.534	985	994	1004	rBV	216511	345043	11.91%	0.944%
6	8.993	1066	1072	1081	rVB	152316	254132	8.77%	0.695%
7	9.716	1189	1195	1205	rBV	125164	202310	6.98%	0.553%
8	10.245	1279	1285	1295	rVB	214151	352480	12.17%	0.964%
9	10.634	1343	1351	1357	rBV	358625	604197	20.86%	1.653%
10	10.763	1367	1373	1382	rBV	184433	322791	11.14%	0.883%
11	13.880	1897	1903	1908	rBV	377171	579318	20.00%	1.585%
12	13.928	1908	1911	1920	rVB	176039	261643	9.03%	0.716%
13	14.169	1946	1952	1958	rBV	447437	647097	22.34%	1.770%
14	14.310	1971	1976	1981	rVB	20253	30320	1.05%	0.083%
15	14.375	1981	1987	1993	rVB	37642	52086	1.80%	0.142%
16	14.475	1993	2004	2012	rBV2	503924	805508	27.81%	2.203%
17	14.663	2030	2036	2042	rBV	113435	176755	6.10%	0.484%
18	14.892	2069	2075	2079	rVB3	18538	31280	1.08%	0.086%
19	15.327	2145	2149	2153	rVB	46741	55162	1.90%	0.151%
20	15.469	2167	2173	2179	rBV	590323	834552	28.81%	2.283%
21	15.580	2187	2192	2200	rVB	111497	151074	5.22%	0.413%
22	15.733	2210	2218	2222	rBV2	19571	41846	1.44%	0.114%
23	16.186	2291	2295	2298	rBV	57661	83928	2.90%	0.230%
24	16.869	2407	2411	2417	rVB3	21963	31584	1.09%	0.086%
25	16.980	2426	2430	2434	rVV	31891	36140	1.25%	0.099%
26	17.033	2437	2439	2449	rVB4	21699	31777	1.10%	0.087%
27	17.221	2465	2471	2475	rBV	645567	931165	32.15%	2.547%
28	17.263	2475	2478	2482	rVV	67860	92329	3.19%	0.253%
29	17.316	2482	2487	2492	rVV2	623192	965403	33.33%	2.641%
30	17.351	2492	2493	2498	rVV	92882	83871	2.90%	0.229%
31	17.833	2572	2575	2579	rVB	33404	43690	1.51%	0.120%
32	18.110	2616	2622	2625	rBV2	58184	92885	3.21%	0.254%
33	18.221	2637	2641	2647	rVB	27211	38274	1.32%	0.105%
34	18.292	2647	2653	2665	rVB3	66923	138049	4.77%	0.378%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

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-BM031516.M
Title : SVOA CALIBRATION

35	18.415	2669	2674	2677	rBV2	20056	36605	1.26%	0.100%
36	18.557	2694	2698	2702	rBV	30395	37709	1.30%	0.103%
37	19.010	2770	2775	2779	rBV2	28872	50264	1.74%	0.137%
38	19.151	2795	2799	2807	rBV	43482	71767	2.48%	0.196%
39	19.274	2814	2820	2827	rVB	959587	1319938	45.57%	3.611%
40	19.392	2834	2840	2848	rBV7	39256	77755	2.68%	0.213%
41	19.521	2855	2862	2871	rVB2	34977	74909	2.59%	0.205%
42	19.610	2871	2877	2880	rBV2	944100	1506619	52.01%	4.121%
43	19.639	2880	2882	2890	rVV	995816	1329950	45.91%	3.638%
44	19.709	2890	2894	2901	rVB2	43173	64904	2.24%	0.178%
45	19.821	2908	2913	2919	rBV	72825	109792	3.79%	0.300%
46	19.880	2919	2923	2928	rVB2	21314	34385	1.19%	0.094%
47	19.962	2931	2937	2948	rBV4	84341	262513	9.06%	0.718%
48	20.133	2955	2966	2973	rBV	261307	555200	19.17%	1.519%
49	20.233	2979	2983	2987	rBV	240707	301110	10.40%	0.824%
50	20.292	2987	2993	2997	rVV2	113064	192465	6.64%	0.526%
51	20.333	2997	3000	3004	rVB2	92052	112414	3.88%	0.308%
52	20.374	3004	3007	3012	rVB2	30112	41027	1.42%	0.112%
53	20.433	3013	3017	3021	rBV2	66351	90040	3.11%	0.246%
54	20.480	3021	3025	3029	rBV4	62705	83115	2.87%	0.227%
55	20.845	3083	3087	3090	rBV4	61068	102599	3.54%	0.281%
56	20.886	3091	3094	3100	rVB3	69396	128196	4.43%	0.351%
57	21.051	3118	3122	3125	rBV	140656	170400	5.88%	0.466%
58	21.086	3125	3128	3130	rVV	92008	112927	3.90%	0.309%
59	21.121	3130	3134	3140	rVB3	230940	448955	15.50%	1.228%
60	21.286	3155	3162	3166	rBV	81275	207710	7.17%	0.568%
61	21.392	3172	3180	3186	rBV2	1221285	2896613	100.00%	7.924%
62	21.439	3186	3188	3198	rVB	991213	1286732	44.42%	3.520%
63	21.562	3204	3209	3215	rVB	329275	464428	16.03%	1.270%
64	21.715	3231	3235	3242	rBV2	125600	191058	6.60%	0.523%
65	21.962	3274	3277	3281	rVB	132835	170119	5.87%	0.465%
66	22.121	3301	3304	3308	rVV2	95752	115591	3.99%	0.316%
67	22.168	3308	3312	3315	rVV2	118626	178242	6.15%	0.488%
68	22.203	3315	3318	3324	rVB2	177814	258164	8.91%	0.706%
69	22.268	3324	3329	3334	rBV2	93003	164925	5.69%	0.451%
70	22.474	3360	3364	3378	rVB5	214788	413386	14.27%	1.131%
71	23.015	3449	3456	3461	rBV	1164178	2799531	96.65%	7.658%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

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-BM031516.M
Title : SVOA CALIBRATION

72	23.192	3481	3486	3494	rVB	265217	459542	15.86%	1.257%
73	23.327	3505	3509	3517	rBV4	72101	200394	6.92%	0.548%
74	23.509	3534	3540	3545	rBV	640073	1302500	44.97%	3.563%
75	23.562	3545	3549	3552	rVV	535492	977353	33.74%	2.674%
76	23.609	3552	3557	3564	rVB	1034306	2016155	69.60%	5.515%
77	23.709	3567	3574	3578	rVV	527220	1089558	37.61%	2.981%
78	23.756	3578	3582	3590	rVB	368469	758253	26.18%	2.074%
79	26.044	3961	3971	3982	rVB2	608847	1869323	64.53%	5.114%
80	26.315	4012	4017	4025	rVB	101012	242099	8.36%	0.662%
81	26.762	4082	4093	4108	rBV	490147	1671965	57.72%	4.574%

Sum of corrected areas: 36555859

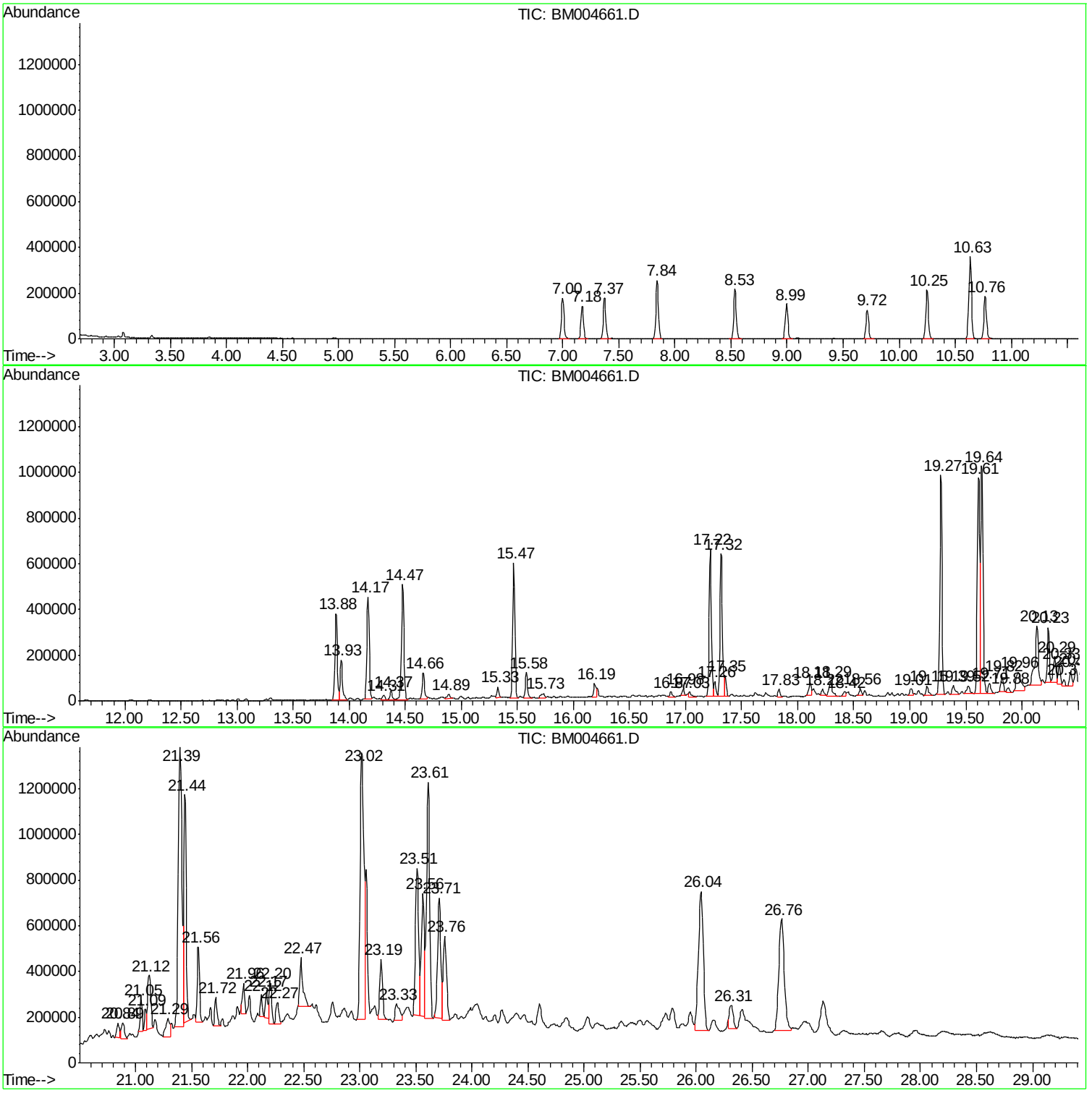
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

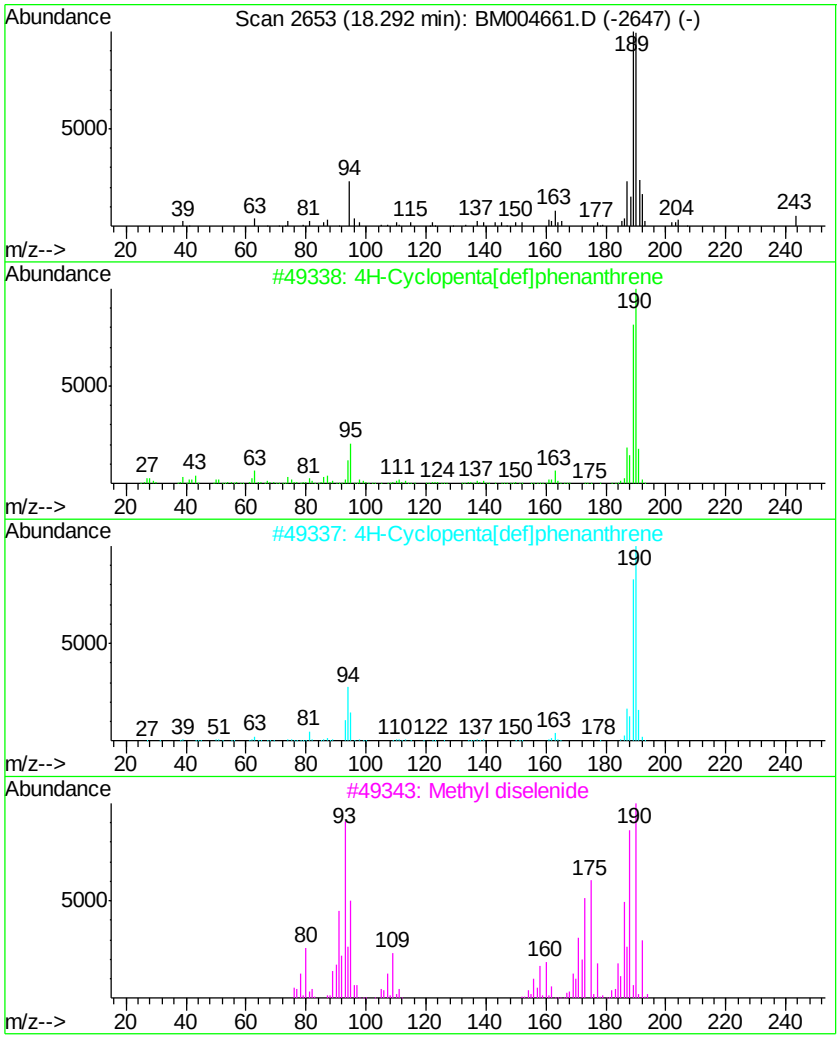
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

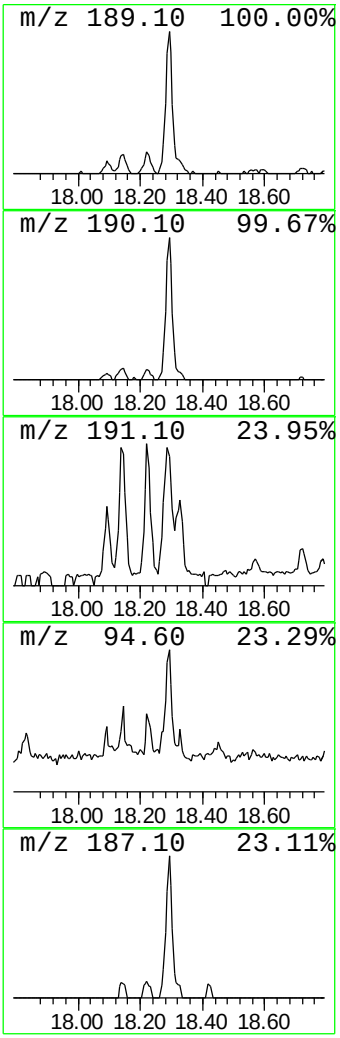
****

Peak Number 1 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	2.97 ng/ul	138049	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	86
3	Methyl diselenide	190	C2H6Se2	007101-31-7	55
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	30





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

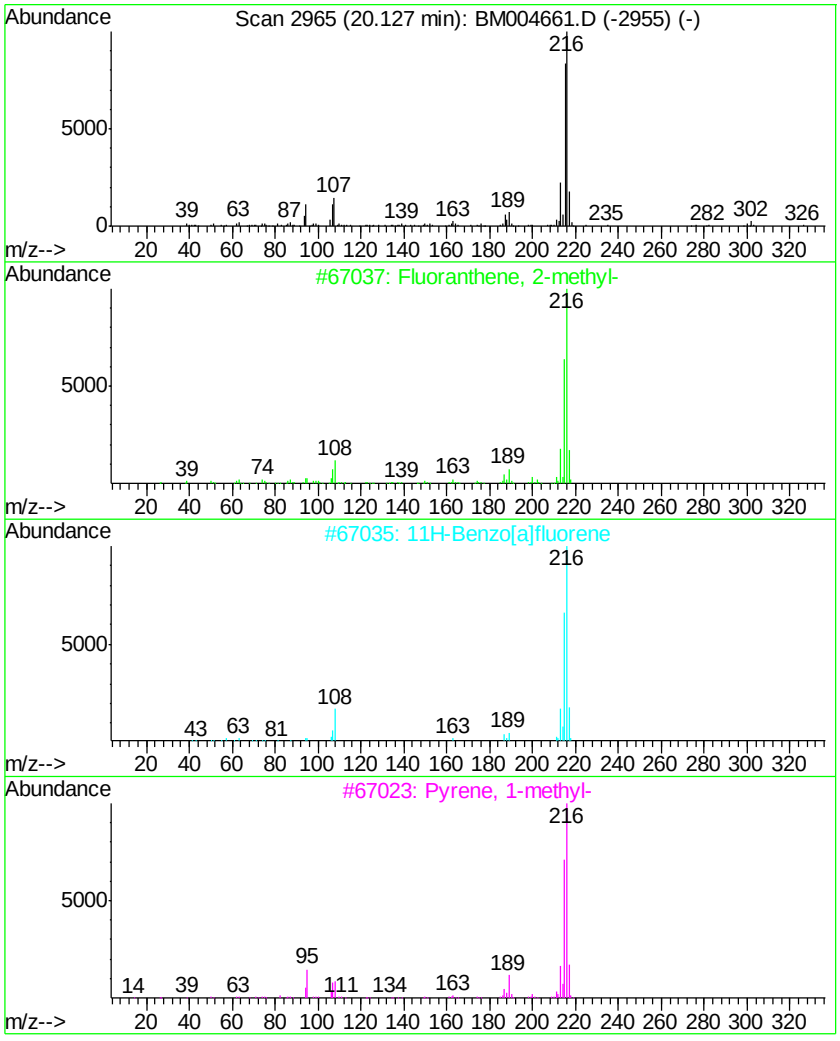
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

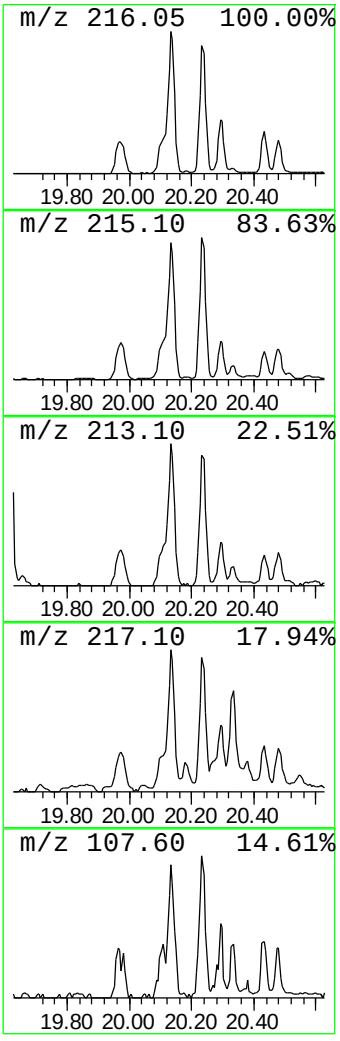
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	3.83 ng/ul	555200	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

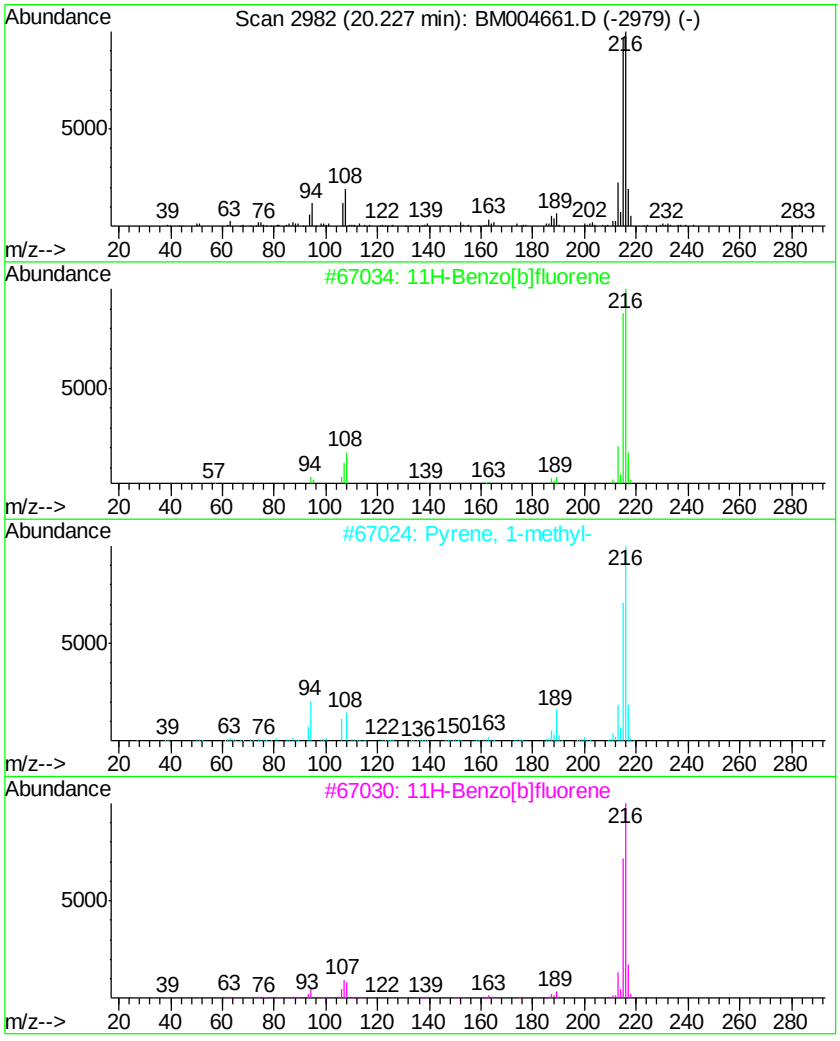
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

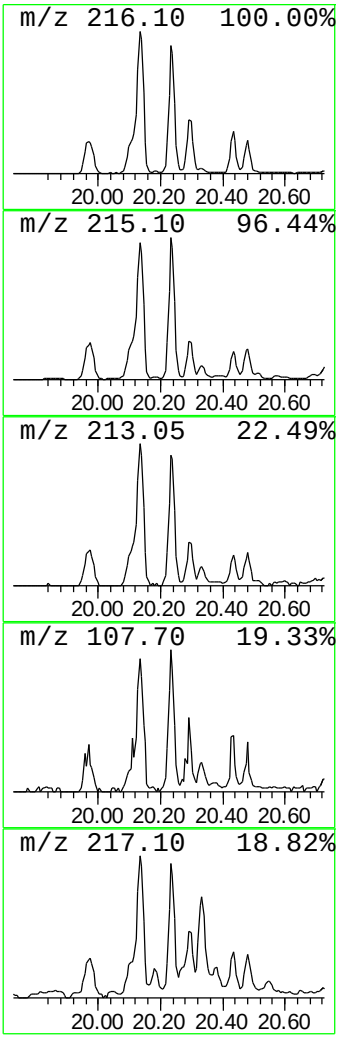
****

Peak Number 3 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.23	2.08 ng/ul	301110	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

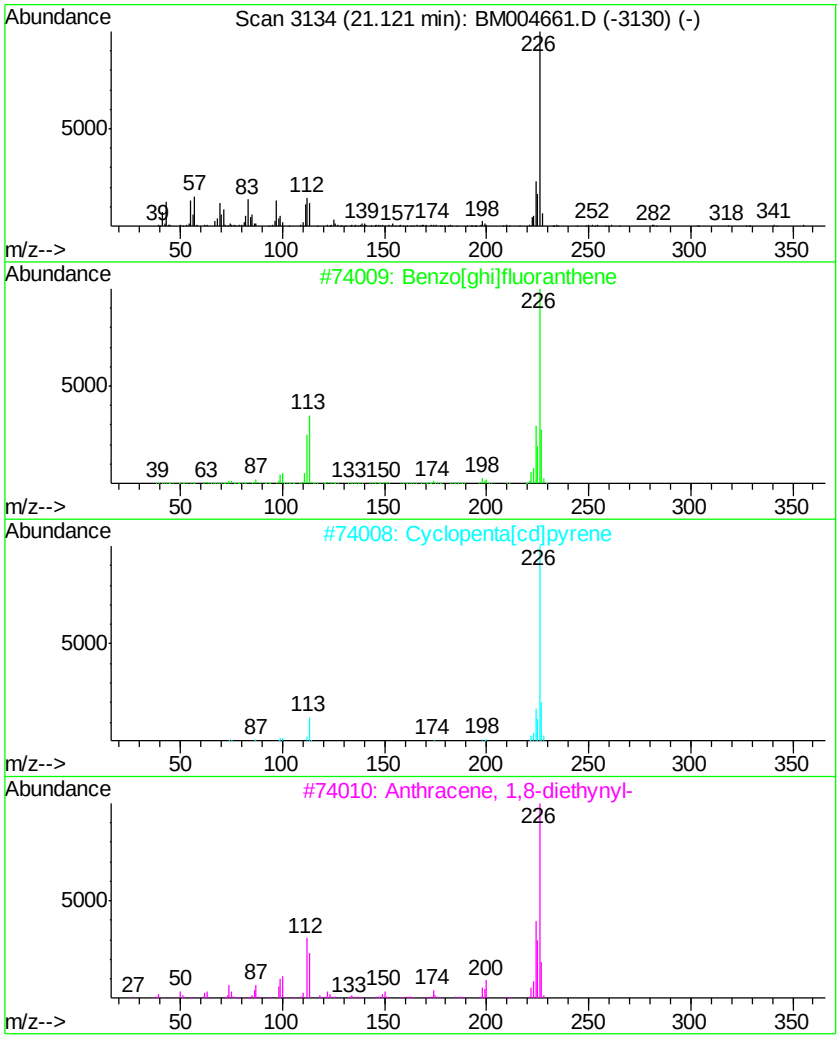
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

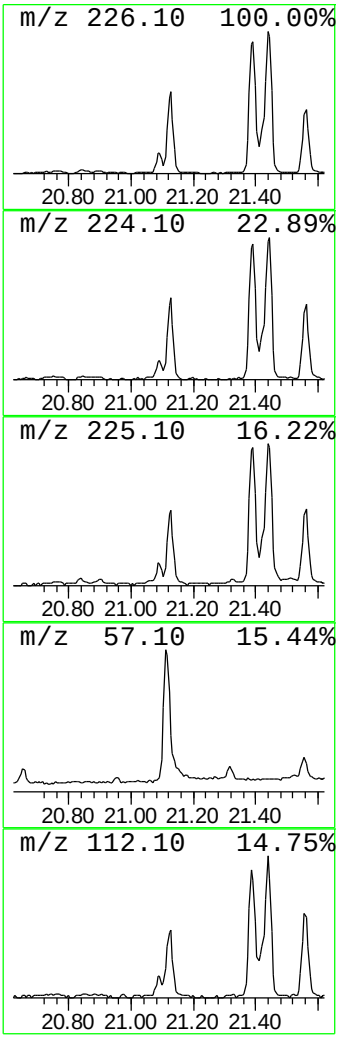
****

Peak Number 4 Benzo[ghi]fluoranthene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.12	3.10 ng/ul	448955	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	68
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
3	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	47
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	38
5	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	9





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

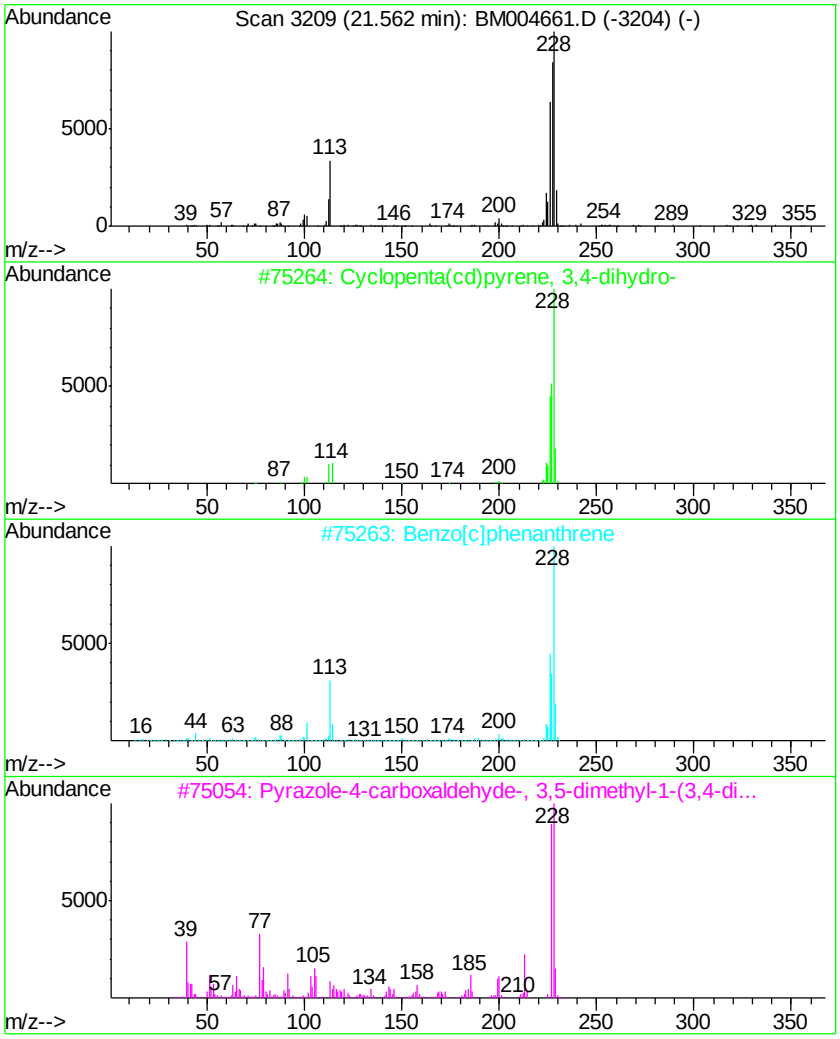
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

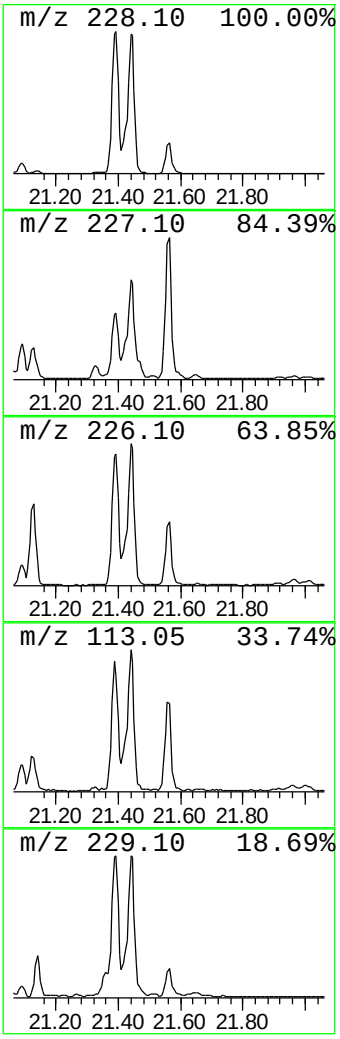
****

Peak Number 5 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.56	3.21 ng/ul	464428	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	95
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	40
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	40
5	2-Nitrophenyl selenocyanate	228	C7H4N2O2Se	051694-22-5	38





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

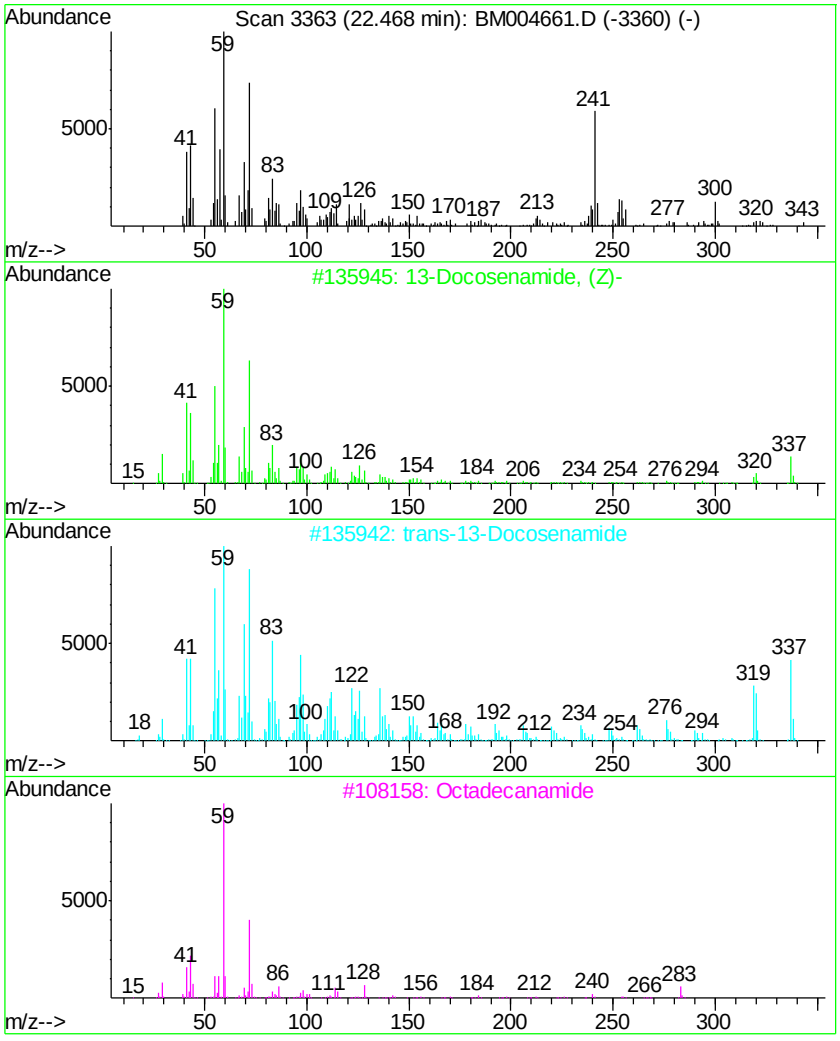
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

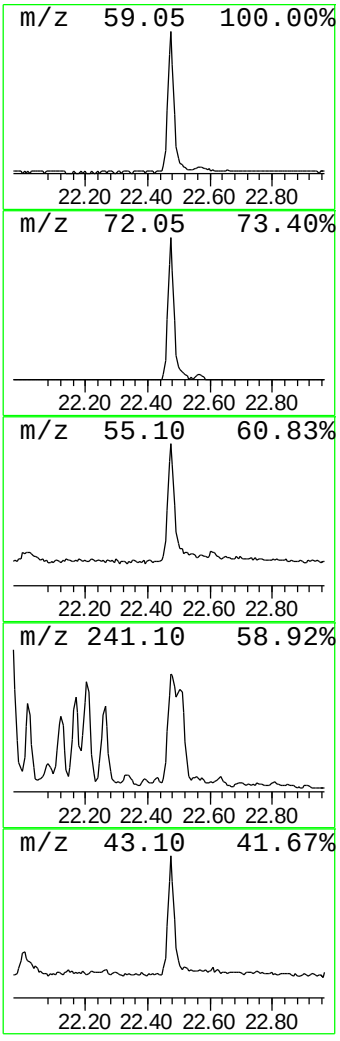
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.47	2.85 ng/ul	413386	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	62
2	trans-13-Docosenamide	337	C22H43NO	010436-09-6	51
3	Octadecanamide	283	C18H37NO	000124-26-5	46
4	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	43
5	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	43





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

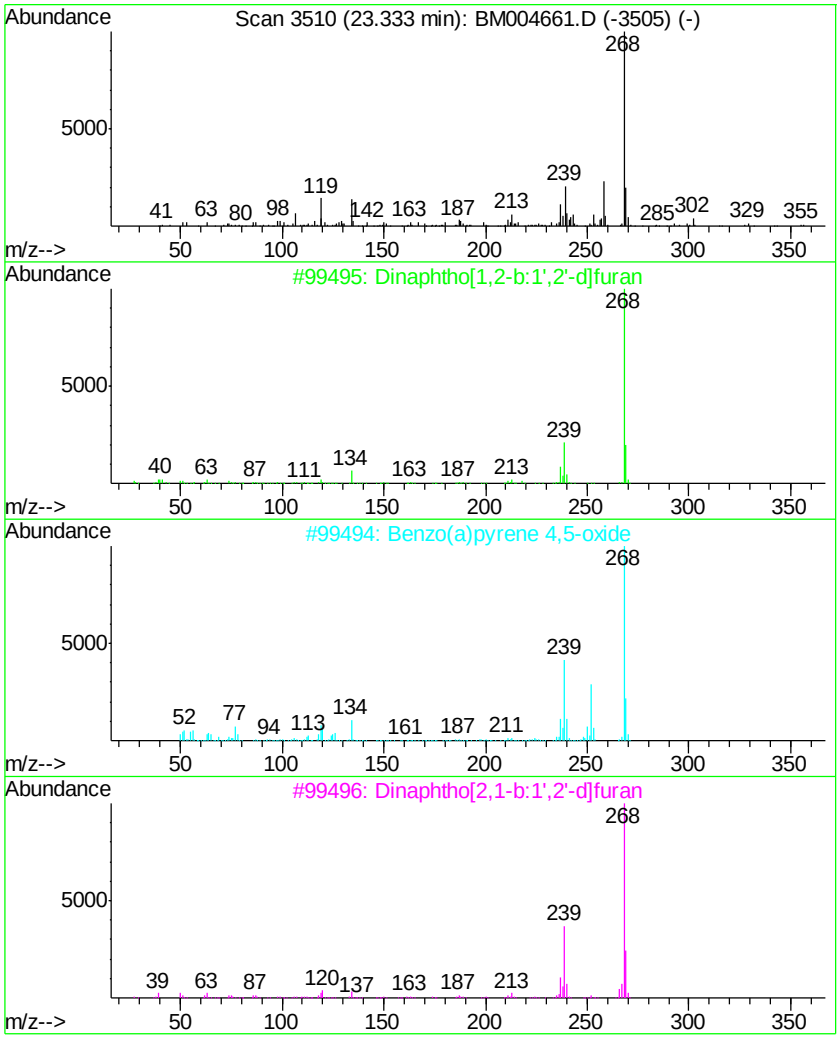
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

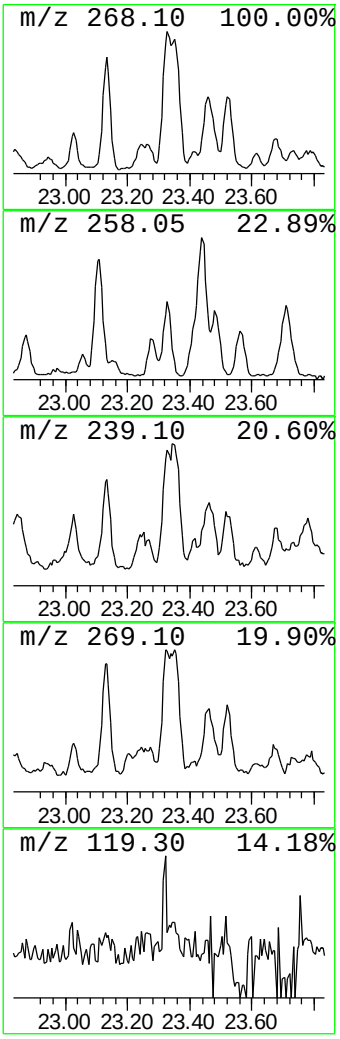
****

Peak Number 8 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.33	3.68 ng/ul	200394	Perylene-d12	23.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	74
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	59
4	Benzo[c]pyren-6,7-diol, 4,5-dihy...	433	C29H23NO3	1000124-59-9	53
5	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	53





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION

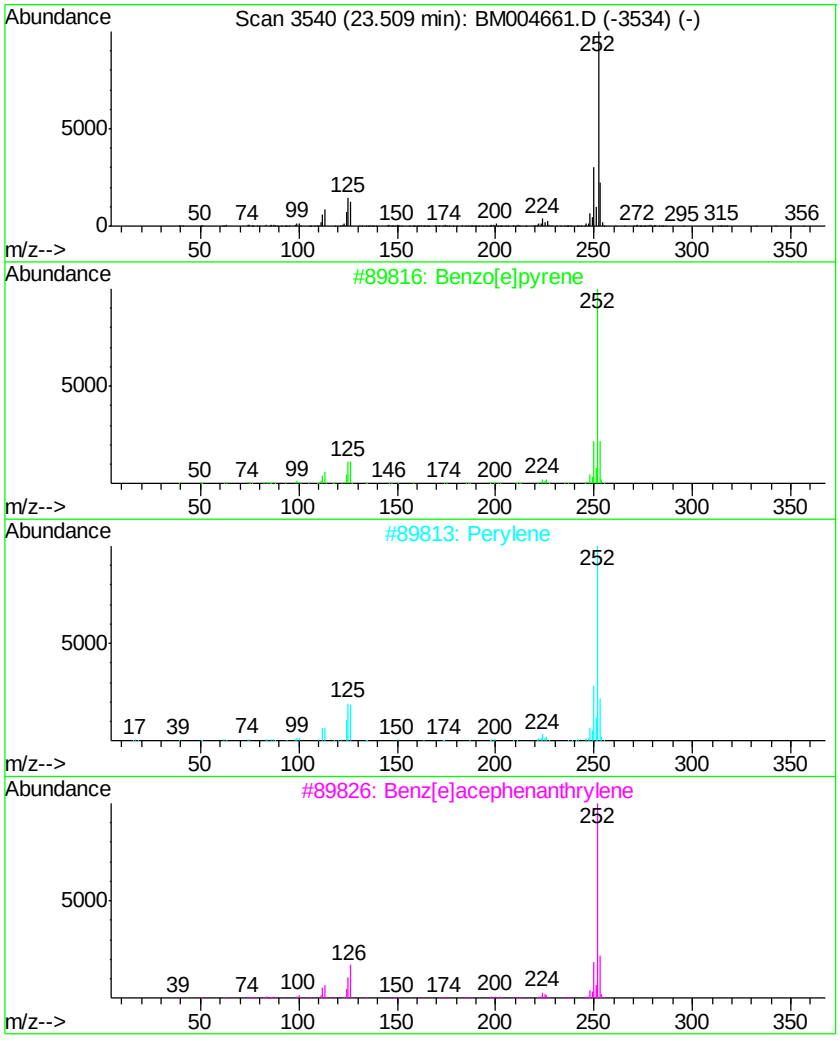
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

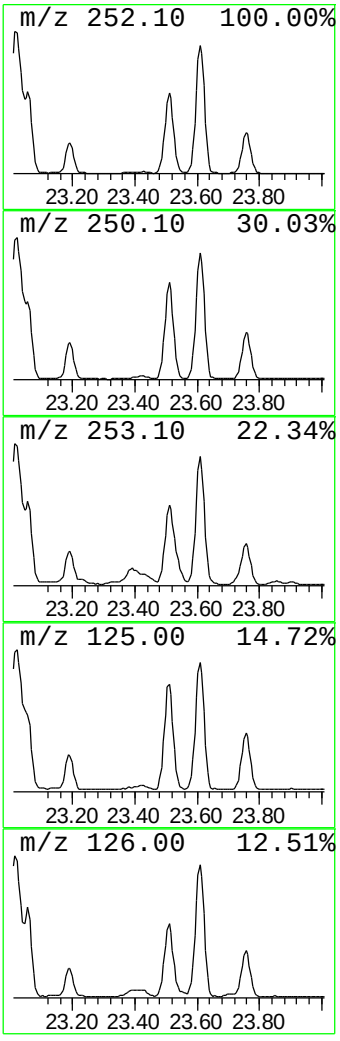
****

Peak Number 9 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.51	23.91 ng/ul	1302500	Perylene-d12	23.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
4	Benzo[a]pyrene	252	C20H12	000050-32-8	97
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031716\
Data File : BM004661.D
Acq On : 17 Mar 2016 11:54
Operator : UM/SJ
Sample : H1779-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BCA10

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.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
4H-Cyclopenta[def...	18.29	3.0	ng/ul	138049	4	17.22	931165	20.0
Fluoranthene, 2-m...	20.13	3.8	ng/ul	555200	5	21.40	2896610	20.0
11H-Benzo[b]fluorene	20.23	2.1	ng/ul	301110	5	21.40	2896610	20.0
Benzo[ghi]fluoran...	21.12	3.1	ng/ul	448955	5	21.40	2896610	20.0
Cyclopenta(cd)pyr...	21.56	3.2	ng/ul	464428	5	21.40	2896610	20.0
13-Docosenamide, ...	22.47	2.9	ng/ul	413386	5	21.40	2896610	20.0
Dinaphtho[1,2-b:1...	23.33	3.7	ng/ul	200394	6	23.71	1089560	20.0
Benzo[e]pyrene	23.51	23.9	ng/ul	1302500	6	23.71	1089560	20.0