LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

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\SOM-EPA-BM021418.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	7.069	689	694	697	rBV4	13346	22854	1.07%	0.128%
2	7.510	763	769	780	rBV2	315855	575002	27.00%	3.212%
3	10.281	1230	1240	1255	rBV	365345	778350	36.55%	4.348%
4	13.604	1802	1805	1812	rBV2	27470	43888	2.06%	0.245%
5	13.869	1844	1850	1852	rBV	35315	51296	2.41%	0.287%
6	13.892	1852	1854	1860	rVB	31901	47668	2.24%	0.266%
7	14.174	1895	1902	1910	rBV2	532154	899517	42.24%	5.025%
8	14.239	1910	1913	1921	rVB2	45847	77245	3.63%	0.432%
9	14.592	1968	1973	1978	rBV2	32373	59511	2.79%	0.332%
10	15.186	2069	2074	2078	rBV3	42282	69274	3.25%	0.387%
11	15.239	2078	2083	2092	rVB2	73774	128837	6.05%	0.720%
12	15.539	2129	2134	2141	rBV3	18552	35386	1.66%	0.198%
13	15.686	2154	2159	2167	rVB3	16095	37647	1.77%	0.210%
14	16.251	2247	2255	2259	rVB5	28912	52288	2.46%	0.292%
15	16.616	2315	2317	2322	rVB4	19762	24803	1.16%	0.139%
16	16.757	2335	2341	2352	rVB	59958	108632	5.10%	0.607%
17	16.939	2366	2372	2375	rBV	659590	1012523	47.55%	5.656%
18	16.980	2375	2379	2386	rVV	1124452	1633309	76.70%	9.124%
19	17.039	2386	2389	2391	rVV2	70437	102960	4.83%	0.575%
20	17.074	2391	2395	2402	rVV	229055	380044	17.85%	2.123%
21	17.151	2405	2408	2414	rVB7	20277	33716	1.58%	0.188%
22	17.363	2436	2444	2454	rBV3	91465	216207	10.15%	1.208%
23	17.815	2516	2521	2525	rBV	105663	150830	7.08%	0.843%
24	17.862	2525	2529	2537	rVV	138474	227545	10.69%	1.271%
25	17.945	2539	2543	2549	rVV2	50171	79824	3.75%	0.446%
26	18.010	2549	2554	2558	rVV	166694	279761	13.14%	1.563%
27	18.051	2558	2561	2568	rVB	68527	98831	4.64%	0.552%
28	18.321	2603	2607	2612	rBV	80372	122047	5.73%	0.682%
29	18.386	2615	2618	2623	rVB4	42586	63698	2.99%	0.356%
30	18.568	2642	2649	2655	rBV7	25612	72261	3.39%	0.404%
31	18.621	2655	2658	2662	rBV5	28157	30285	1.42%	0.169%
32	18.662	2662	2665	2669	rVB5	23519	28809	1.35%	0.161%
33	18.745	2672	2679	2683	rBV2	52468	114142	5.36%	0.638%
34	18.898	2699	2705	2712	rBV2	43580	114201	5.36%	0.638%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

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\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

35	19.009	2718	2724	2729	rBV	1579617	2129494	100.00%	11.896%
36	19.115	2739	2742	2748	rVB8	26620	41306	1.94%	0.231%
37	19.251	2762	2765	2771	rVB3	58703	77367	3.63%	0.432%
38	19.351	2777	2782	2783	rBV2	285614	381378	17.91%	2.131%
39	19.374	2783	2786	2795	rVV	1173525	1625337	76.33%	9.080%
40	19.456	2797	2800	2805	rVB4	56531	89884	4.22%	0.502%
41	19.562	2815	2818	2826	rBV	62006	93257	4.38%	0.521%
42	19.633	2828	2830	2837	rVB4	44683	68301	3.21%	0.382%
43	19.704	2837	2842	2850	rBV6	75537	217619	10.22%	1.216%
44	19.774	2852	2854	2855	rBV2	27632	23534	1.11%	0.131%
45	19.880	2862	2872	2878	rBV	171065	362048	17.00%	2.023%
46	19.980	2886	2889	2893	rBV	110336	135490	6.36%	0.757%
47	20.645	2998	3002	3008	rBV2	94680	169712	7.97%	0.948%
48	20.798	3025	3028	3031	rBV3	109532	146698	6.89%	0.820%
49	21.151	3082	3088	3092	rBV2	1027685	1897693	89.11%	10.601%
50	21.192	3092	3095	3100	rVB	477291	567744	26.66%	3.172%
51	22.686	3345	3349	3354	rBV	391328	813596	38.21%	4.545%
52	23.239	3439	3443	3449	rVB	364064	610168	28.65%	3.409%
53	23.333	3455	3459	3464	rBV	444618	676874	31.79%	3.781%

Sum of corrected areas: 17900691

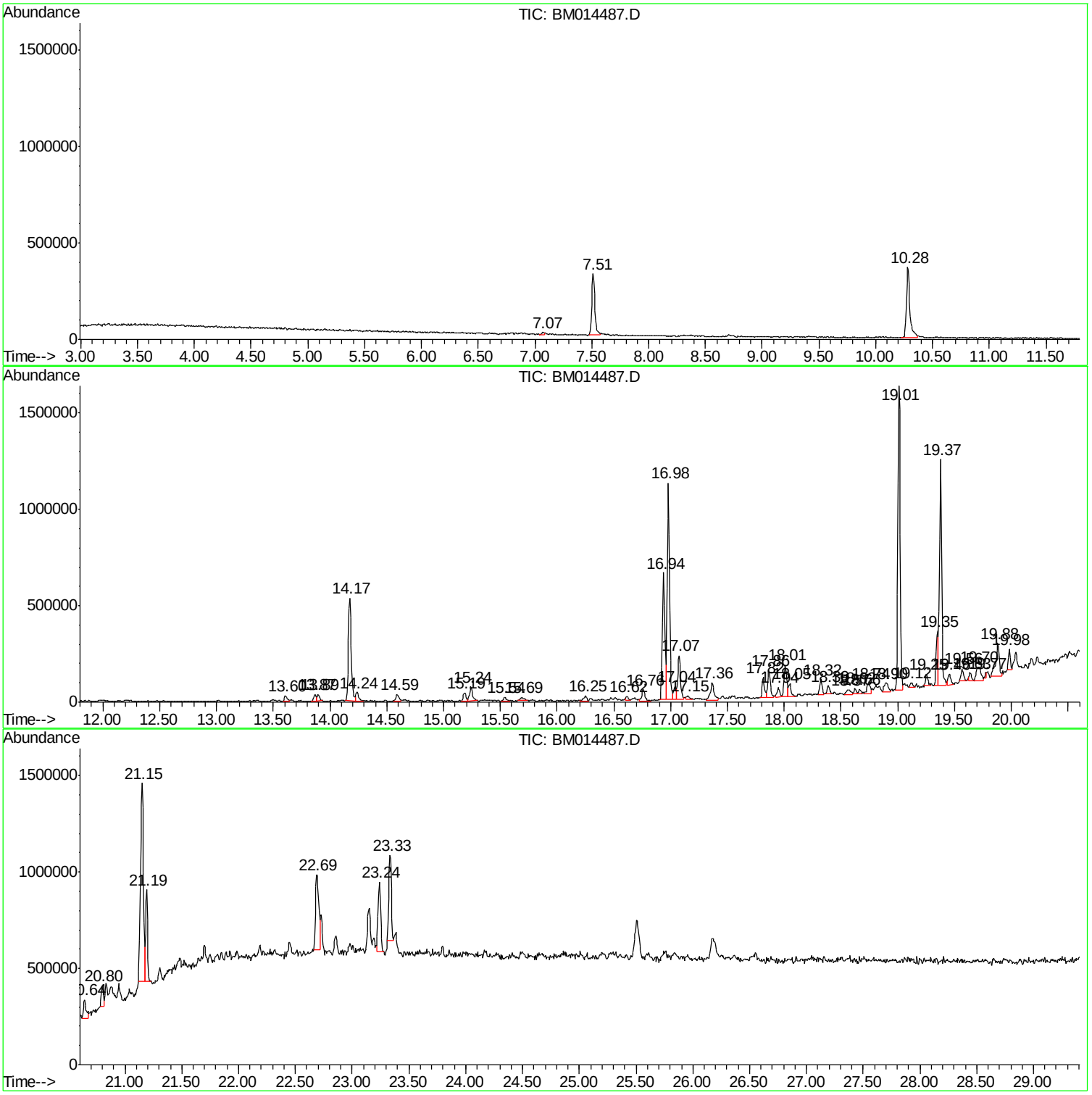
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

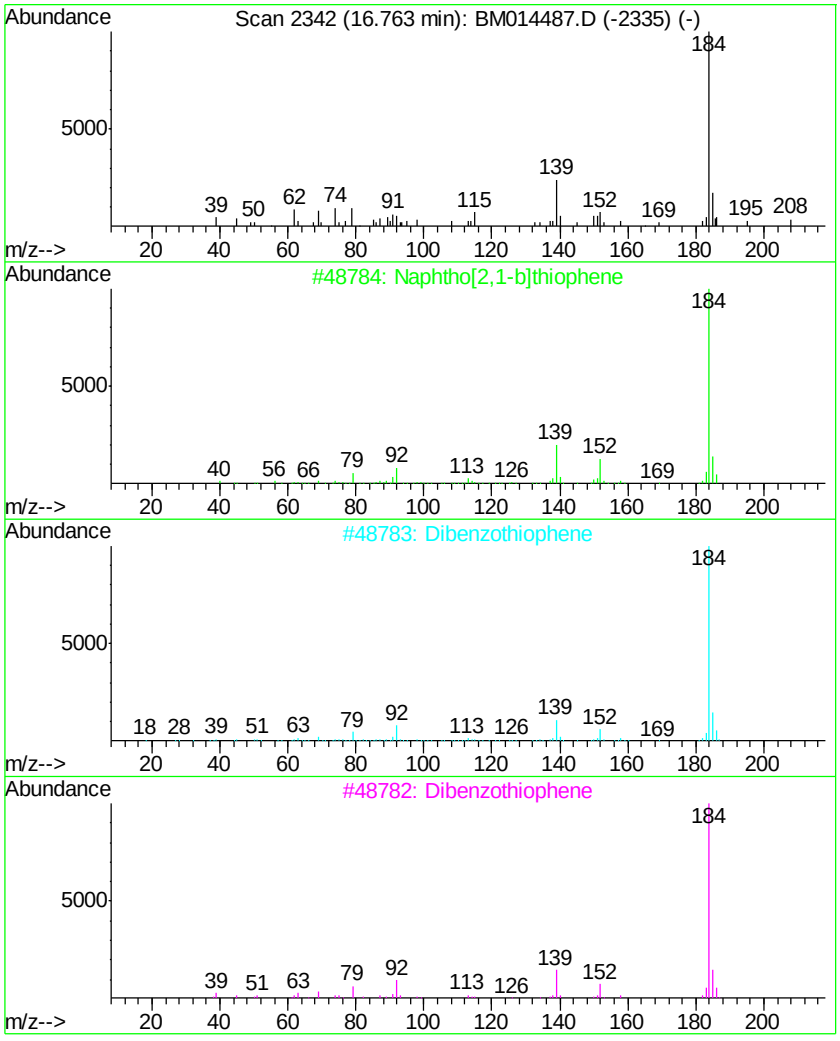
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

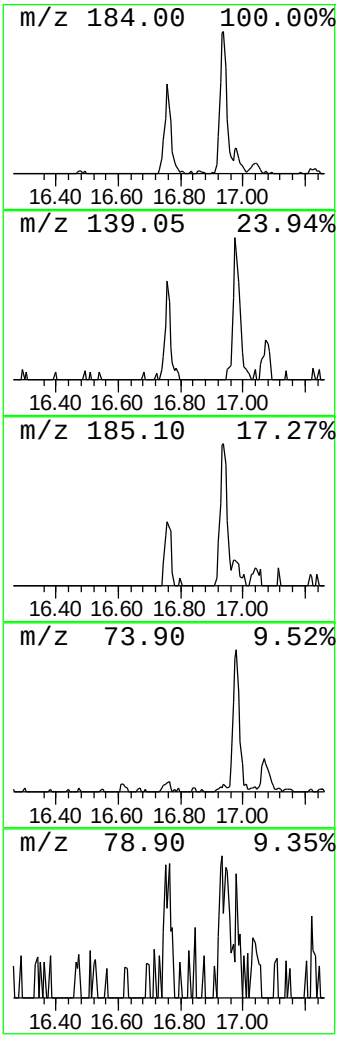
****

Peak Number 1 Naphtho[2,1-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	2.15 ng/ul	108632	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	87
2	Dibenzothiophene	184	C12H8S	000132-65-0	87
3	Dibenzothiophene	184	C12H8S	000132-65-0	87
4	Dibenzothiophene	184	C12H8S	000132-65-0	86
5	Dibenzothiophene	184	C12H8S	000132-65-0	83





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

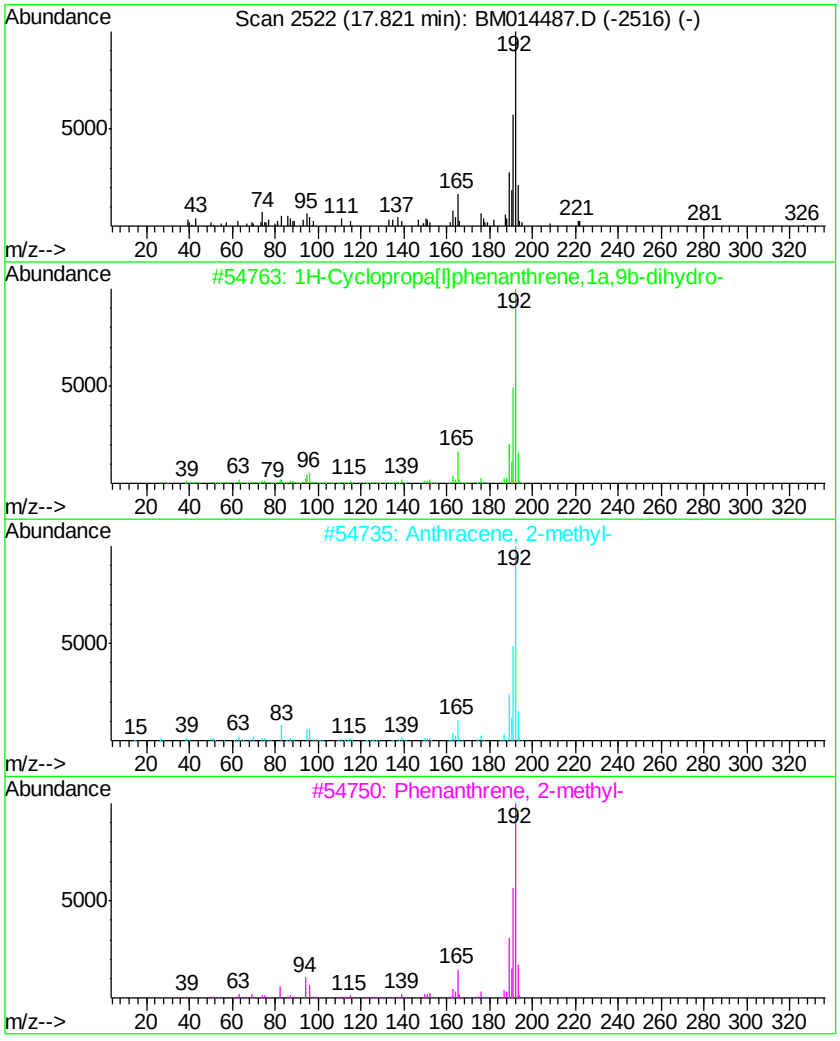
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

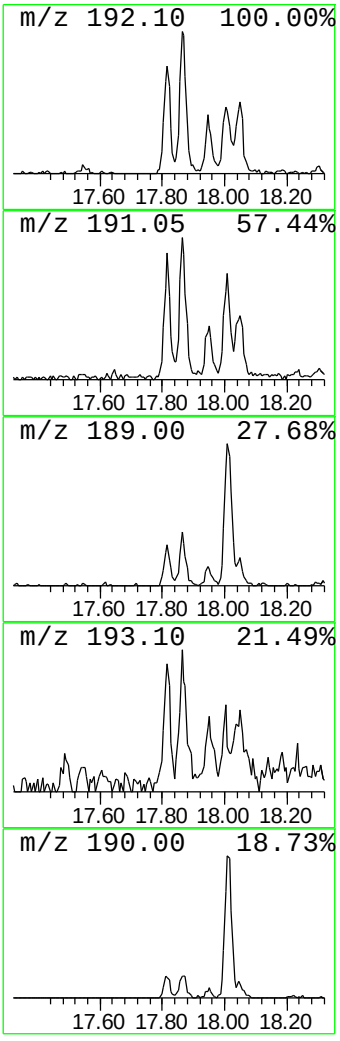
****

Peak Number 2 1H-Cyclopropa[l]phenanthren... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	2.98 ng/ul	150830	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

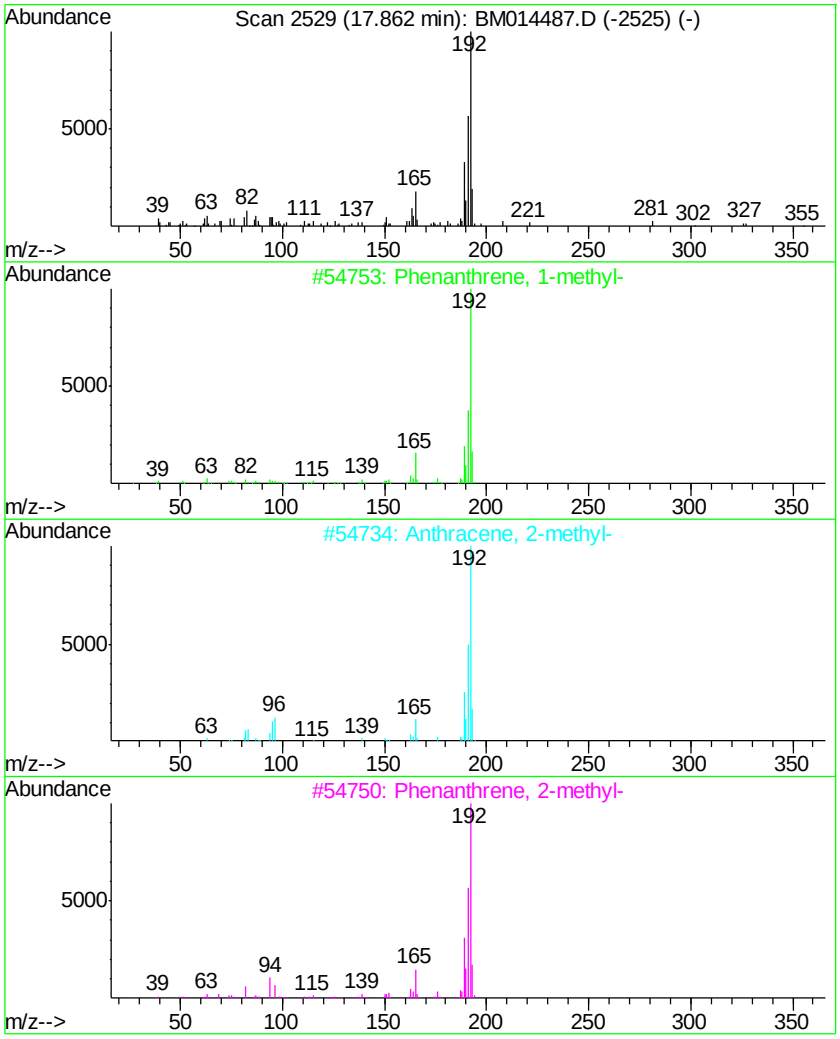
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

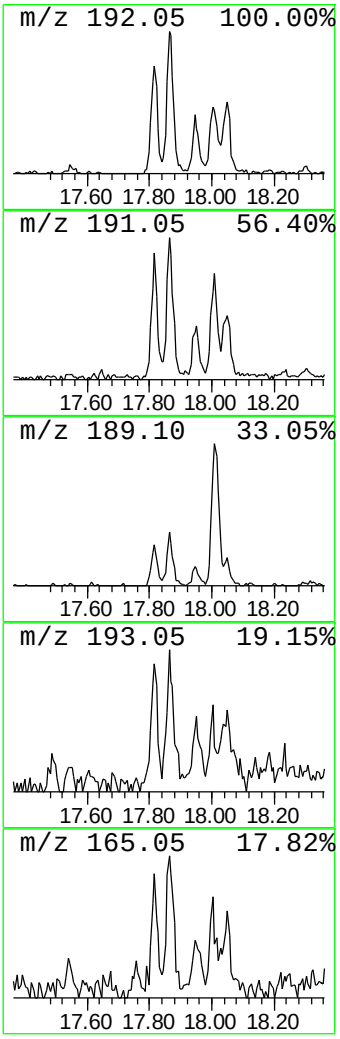
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	4.49 ng/ul	227545	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

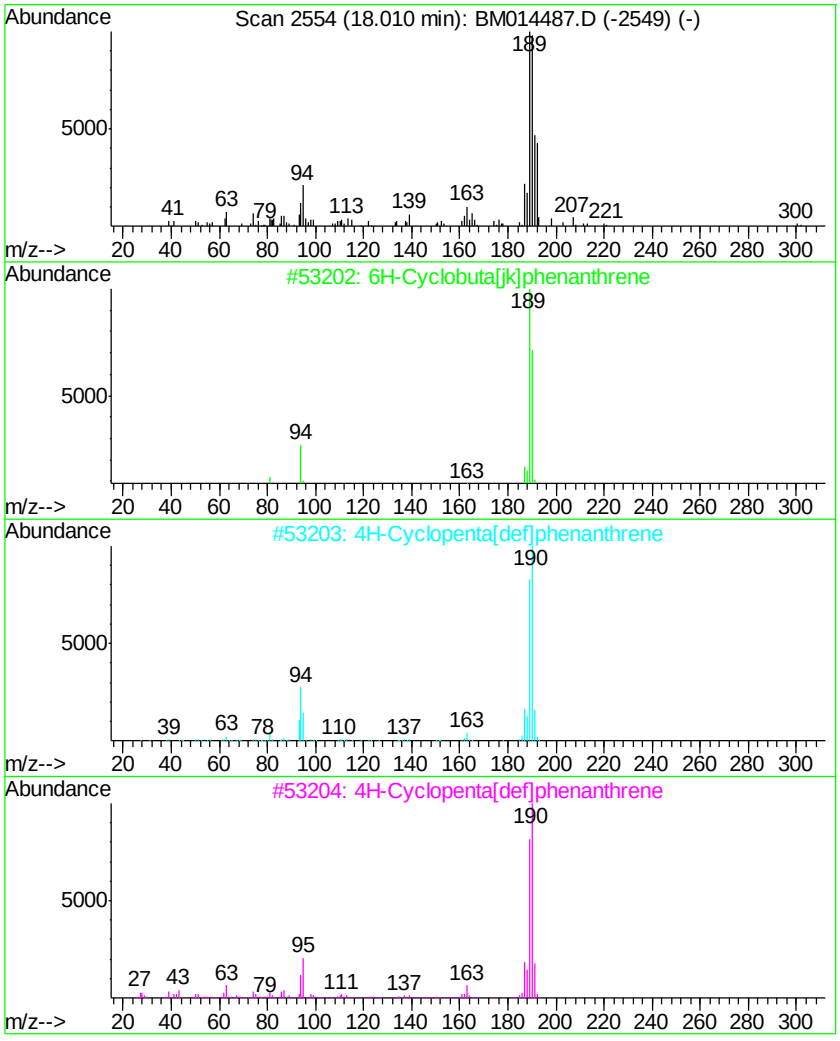
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

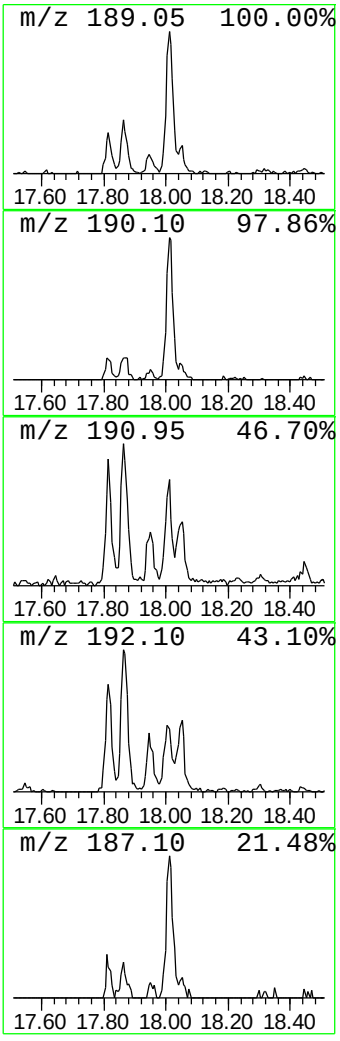
****

Peak Number 4 6H-Cyclobuta[jk]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	5.53 ng/ul	279761	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	52
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	33
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	28





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
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Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

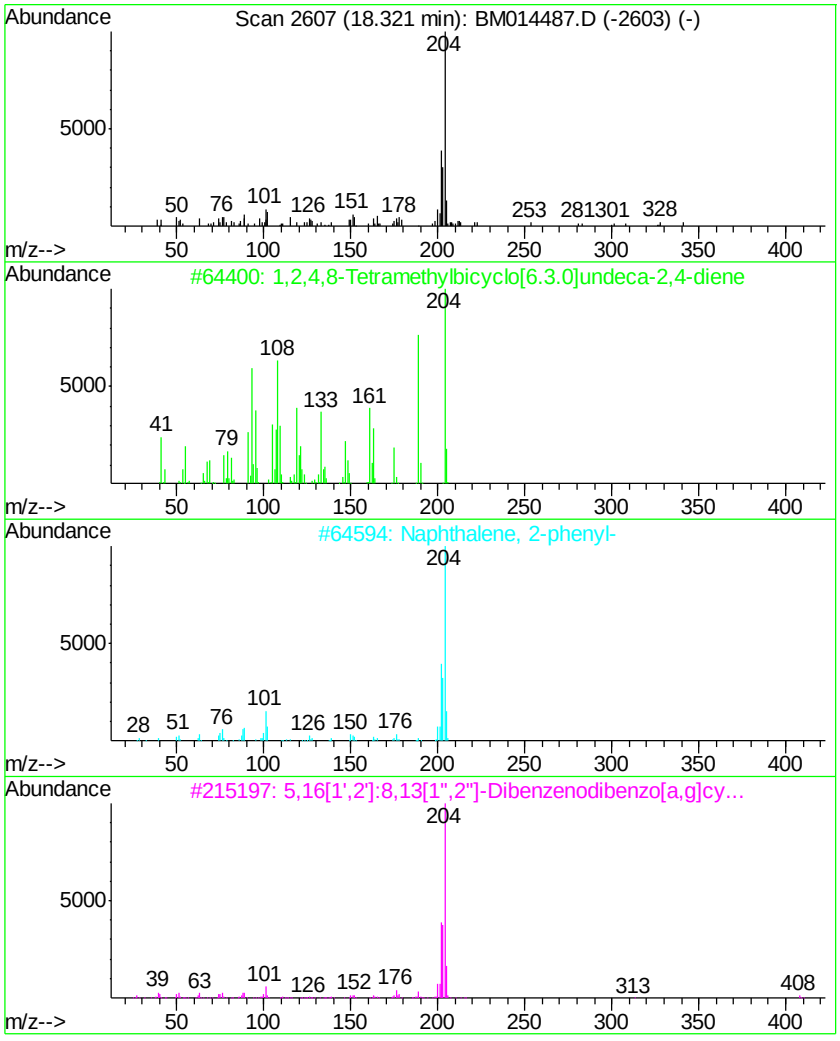
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

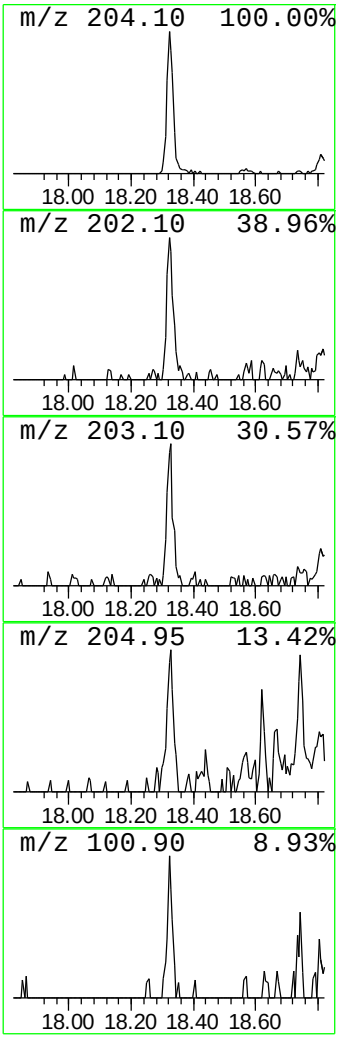
****

Peak Number 5 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	2.41 ng/ul	122047	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	86
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

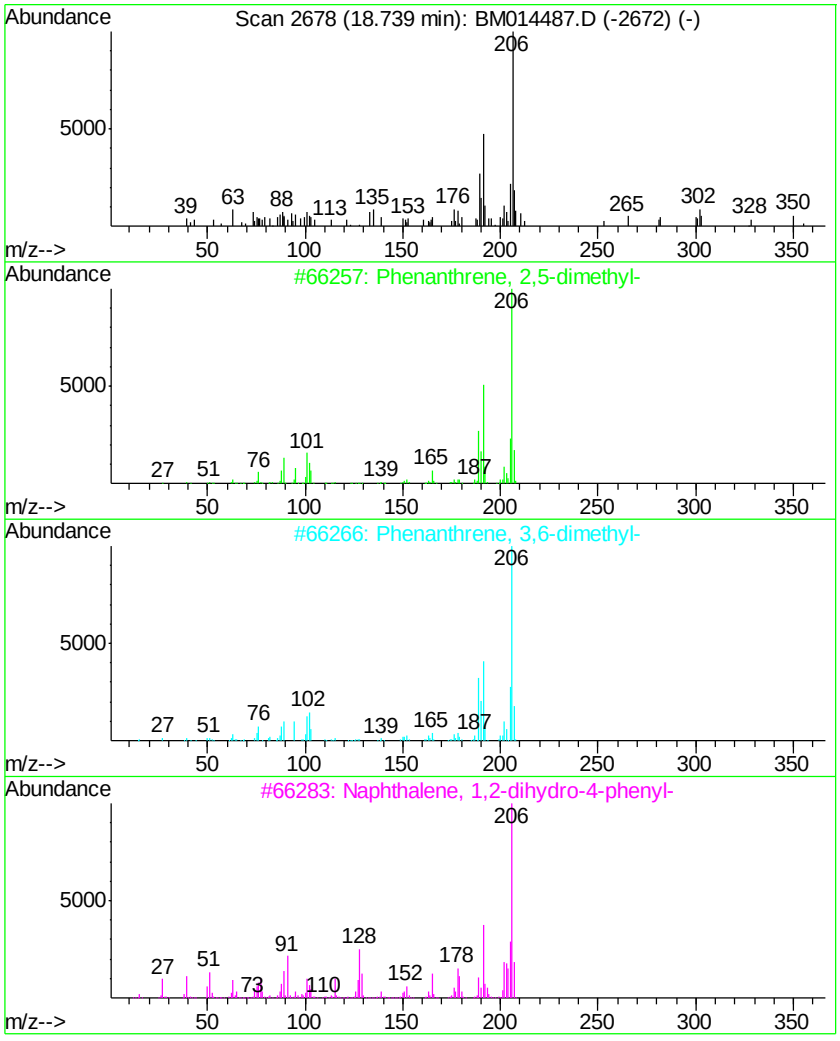
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

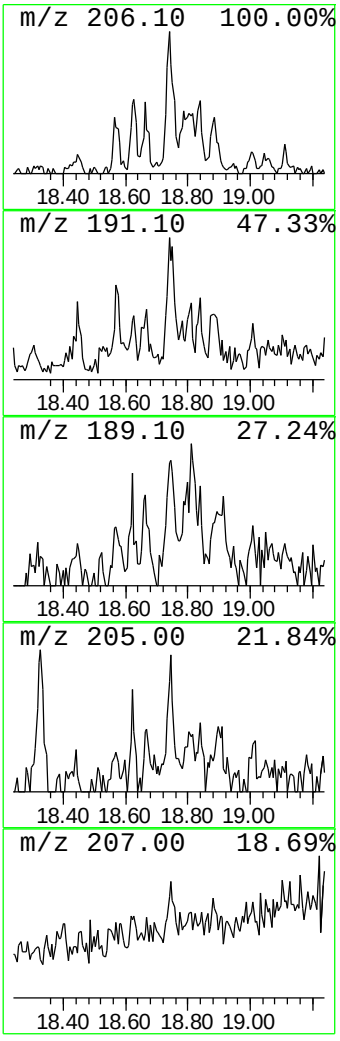
****

Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.74	2.25 ng/ul	114142	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	76
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	64
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	64
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	62





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

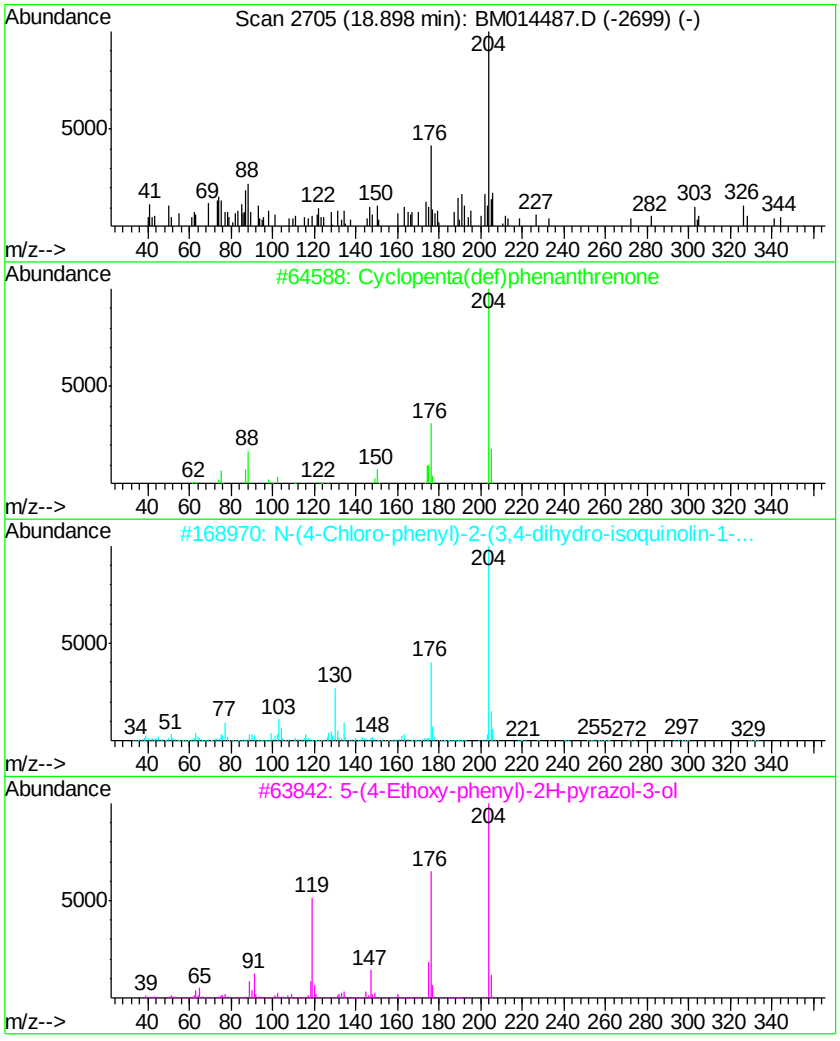
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

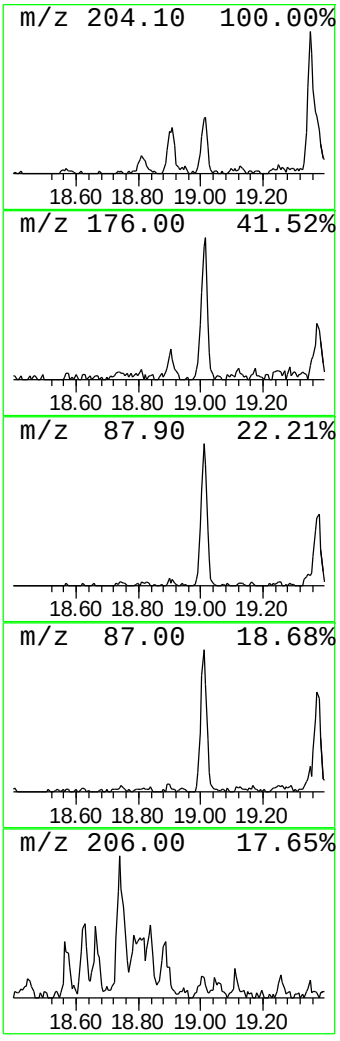
****

Peak Number 7 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	2.26 ng/ul	114201	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	62
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	50
3	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	47
4	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	47
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

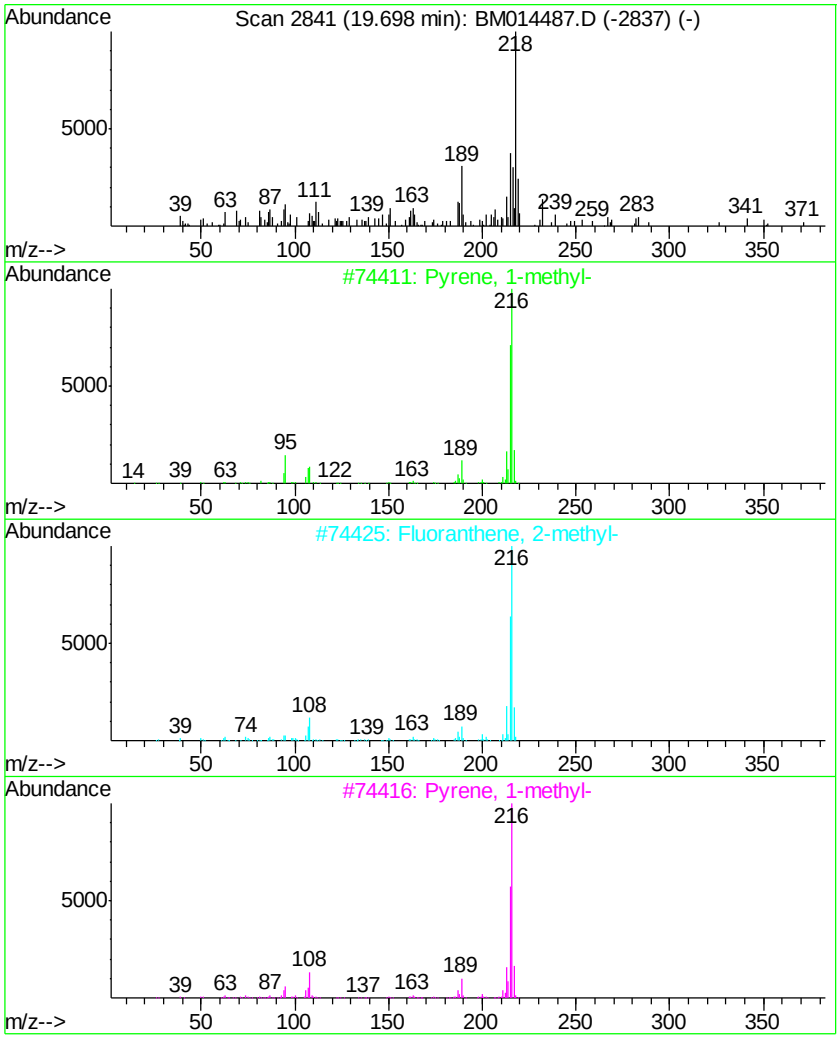
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

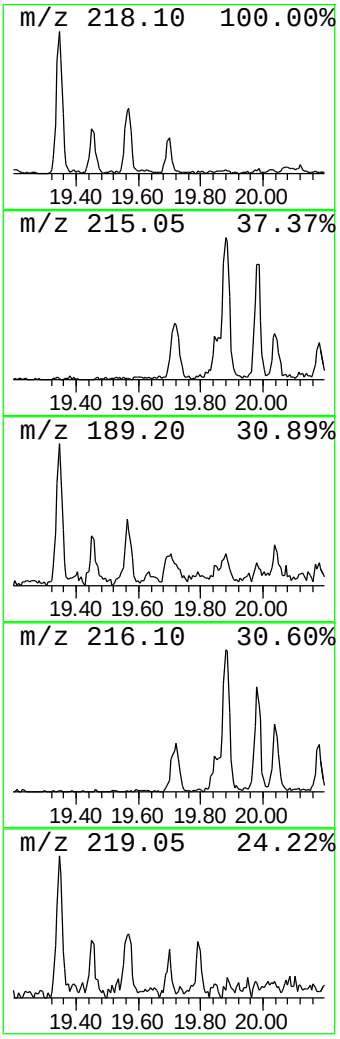
****

Peak Number 8 Pyrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.70	2.29 ng/ul	217619	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	60
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	60
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	52
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	50
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

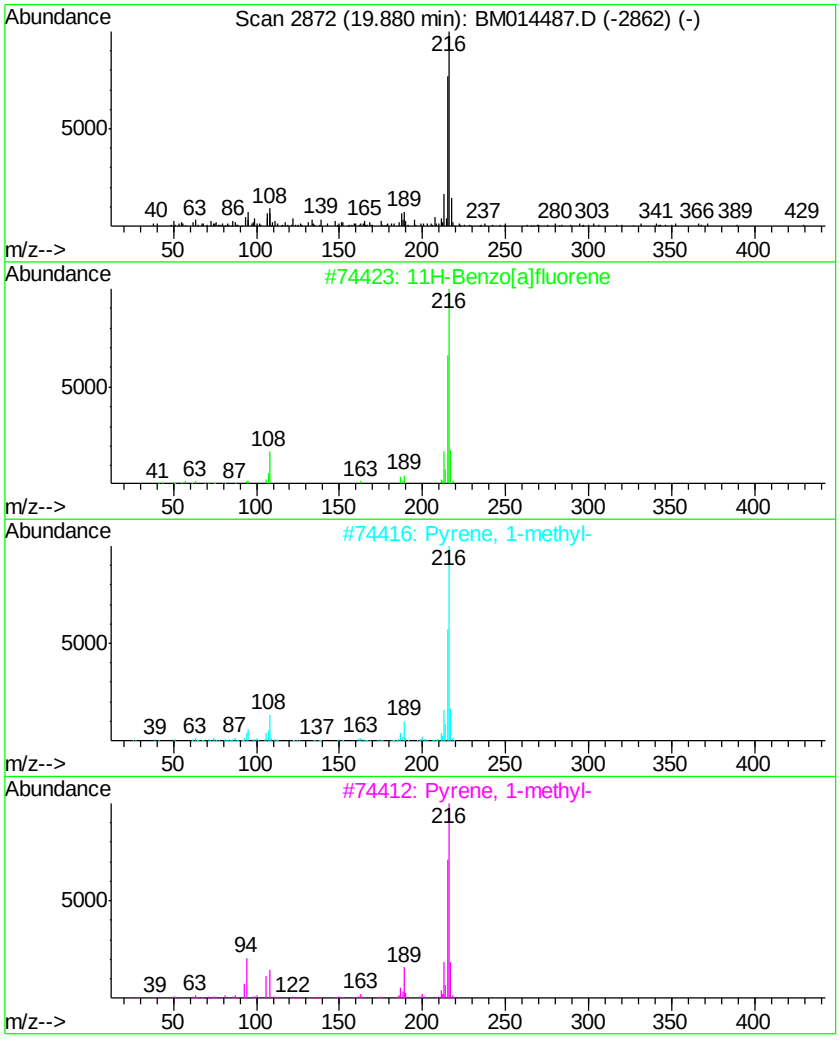
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

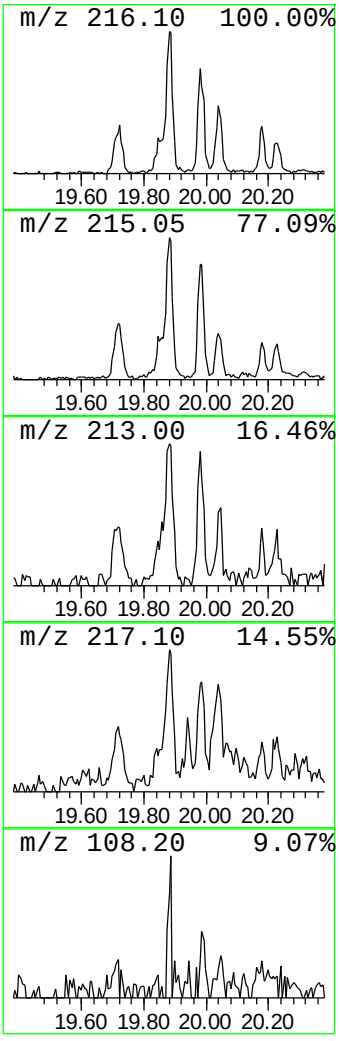
****

Peak Number 9 11H-Benzo[a]fluorene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.88	3.82 ng/ul	362048	Chrysene-d12	21.16

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030518\
Data File : BM014487.D
Acq On : 05 Mar 2018 23:47
Operator : SJ/JU
Sample : J1678-21DL 25X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Z4DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA 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
Naphtho[2,1-b]thi...	16.76	2.1	ng/ul	108632	4	16.94	1012520	20.0
1H-Cyclopropa[l]p...	17.82	3.0	ng/ul	150830	4	16.94	1012520	20.0
Phenanthrene, 1-m...	17.86	4.5	ng/ul	227545	4	16.94	1012520	20.0
6H-Cyclobuta[jk]p...	18.01	5.5	ng/ul	279761	4	16.94	1012520	20.0
1,2,4,8-Tetrameth...	18.32	2.4	ng/ul	122047	4	16.94	1012520	20.0
Phenanthrene, 2,5...	18.74	2.3	ng/ul	114142	4	16.94	1012520	20.0
Cyclopenta(def)ph...	18.90	2.3	ng/ul	114201	4	16.94	1012520	20.0
Pyrene, 1-methyl-	19.70	2.3	ng/ul	217619	5	21.16	1897690	20.0
11H-Benzo[a]fluorene	19.88	3.8	ng/ul	362048	5	21.16	1897690	20.0