LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

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:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM028151.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.222	342	346	356	rVB	52761	82143	1.11%	0.084%
2	5.704	420	428	439	rBV	2285622	3469252	46.92%	3.565%
3	7.351	700	708	720	rBV	2386110	3907269	52.84%	4.015%
4	7.792	778	783	796	rBV	119212	192045	2.60%	0.197%
5	8.210	843	854	860	rBV	631761	990200	13.39%	1.017%
6	9.386	1046	1054	1061	rBV	1524770	2500474	33.81%	2.569%
7	11.039	1328	1335	1341	rBV	860797	1414596	19.13%	1.454%
8	13.469	1738	1748	1754	rBV	3604763	5352073	72.38%	5.499%
9	14.280	1879	1886	1892	rBV	349987	512502	6.93%	0.527%
10	14.563	1925	1934	1944	rBV	127615	218317	2.95%	0.224%
11	14.833	1970	1980	1986	rBV	1258316	1898607	25.68%	1.951%
12	14.898	1986	1991	1997	rVB	143659	205643	2.78%	0.211%
13	15.227	2040	2047	2054	rBV2	81642	131031	1.77%	0.135%
14	15.868	2150	2156	2167	rVB2	159393	254875	3.45%	0.262%
15	16.157	2201	2205	2215	rVB	62596	109903	1.49%	0.113%
16	16.310	2224	2231	2238	rBV	3066650	4272447	57.78%	4.390%
17	16.533	2266	2269	2274	rVB3	49759	75974	1.03%	0.078%
18	16.862	2316	2325	2329	rBV3	67491	148862	2.01%	0.153%
19	17.086	2356	2363	2366	rBV3	58842	116774	1.58%	0.120%
20	17.209	2379	2384	2391	rVB2	87522	133847	1.81%	0.138%
21	17.286	2392	2397	2404	rVV4	80453	176727	2.39%	0.182%
22	17.374	2408	2412	2419	rVB	108578	162958	2.20%	0.167%
23	17.557	2437	2443	2446	rBV	1630068	2239801	30.29%	2.301%
24	17.598	2446	2450	2456	rVV	2281111	3156207	42.68%	3.243%
25	17.686	2460	2465	2470	rVV	555682	778907	10.53%	0.800%
26	17.739	2470	2474	2479	rVB3	59385	119197	1.61%	0.122%
27	17.821	2484	2488	2492	rBV2	47098	81272	1.10%	0.084%
28	17.951	2499	2510	2514	rBV2	237147	442624	5.99%	0.455%
29	18.068	2526	2530	2533	rBV	62626	85090	1.15%	0.087%
30	18.127	2537	2540	2547	rVB2	73112	110121	1.49%	0.113%
31	18.274	2560	2565	2572	rVB	40436	85107	1.15%	0.087%
32	18.415	2584	2589	2593	rBV2	519829	790139	10.69%	0.812%
33	18.468	2593	2598	2604	rVB	581153	838619	11.34%	0.862%
34	18.545	2606	2611	2616	rBV	220958	309059	4.18%	0.318%
35	18.615	2616	2623	2626	rVV2	631553	1179996	15.96%	1.212%
36	18.645	2626	2628	2633	rVB	308716	390428	5.28%	0.401%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

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:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	18.709	2635	2639	2643	rBV4	62377	99342	1.34%	0.102%
38	18.903	2667	2672	2676	rBV	297507	408461	5.52%	0.420%
39	18.951	2676	2680	2690	rVB2	204637	303738	4.11%	0.312%
40	19.151	2710	2714	2717	rBV	123212	154131	2.08%	0.158%
41	19.198	2719	2722	2725	rVB	118731	129905	1.76%	0.133%
42	19.239	2725	2729	2733	rVB2	110450	136033	1.84%	0.140%
43	19.321	2737	2743	2747	rBV	383201	642096	8.68%	0.660%
44	19.380	2748	2753	2756	rBV3	137224	248998	3.37%	0.256%
45	19.456	2762	2766	2774	rBV3	240285	452383	6.12%	0.465%
46	19.586	2782	2788	2793	rBV	5136566	6813879	92.14%	7.001%
47	19.633	2793	2796	2799	rBV	81154	97443	1.32%	0.100%
48	19.674	2799	2803	2807	rVB2	192097	270478	3.66%	0.278%
49	19.768	2815	2819	2822	rBV4	78797	94518	1.28%	0.097%
50	19.821	2825	2828	2832	rBV	126631	150296	2.03%	0.154%
51	19.909	2837	2843	2844	rBV	783163	1117039	15.11%	1.148%
52	19.945	2844	2849	2855	rVV	4415379	6273571	84.84%	6.446%
53	20.003	2855	2859	2865	rVB2	282577	438605	5.93%	0.451%
54	20.127	2874	2880	2885	rBV	5765646	7394745	100.00%	7.598%
55	20.174	2885	2888	2893	rVB	246366	342549	4.63%	0.352%
56	20.262	2896	2903	2908	rBV4	385159	952468	12.88%	0.979%
57	20.309	2908	2911	2915	rBV	77469	102841	1.39%	0.106%
58	20.421	2920	2930	2935	rVB2	762283	1522903	20.59%	1.565%
59	20.521	2943	2947	2950	rBV	438572	530843	7.18%	0.545%
60	20.580	2950	2957	2961	rVV3	462250	842473	11.39%	0.866%
61	20.615	2961	2963	2966	rVB	129954	131438	1.78%	0.135%
62	20.715	2976	2980	2984	rBV	339215	479398	6.48%	0.493%
63	20.762	2985	2988	2991	rVB	277083	322894	4.37%	0.332%
64	21.109	3045	3047	3051	rBV3	92645	150675	2.04%	0.155%
65	21.156	3051	3055	3061	rVB	489279	674841	9.13%	0.693%
66	21.321	3077	3083	3086	rBV2	447581	805219	10.89%	0.827%
67	21.356	3086	3089	3093	rVV	1057564	1380273	18.67%	1.418%
68	21.397	3093	3096	3100	rVV2	449362	704412	9.53%	0.724%
69	21.444	3100	3104	3112	rVB2	508963	739499	10.00%	0.760%
70	21.656	3135	3140	3146	rBV2	3082426	6058682	81.93%	6.225%
71	21.709	3146	3149	3158	rVB	2307519	2937401	39.72%	3.018%
72	21.833	3166	3170	3175	rBV	354132	505354	6.83%	0.519%
73	21.992	3193	3197	3201	rBV2	343409	502717	6.80%	0.517%
74	22.239	3236	3239	3243	rVB	402874	489537	6.62%	0.503%
75	23.327	3417	3424	3429	rBV	1785418	4326352	58.51%	4.445%
76	23.503	3450	3454	3460	rVB	392526	650882	8.80%	0.669%

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-9

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:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	23.833	3505	3510	3521	rVB	1035920	2112538	28.57%	2.171%
78	23.938	3522	3528	3535	rVB	1515358	2799729	37.86%	2.877%
79	24.038	3540	3545	3550	rVV	874147	1827766	24.72%	1.878%
80	24.091	3551	3554	3562	rVB2	454384	872171	11.79%	0.896%
81	26.479	3952	3960	3970	rVB2	804310	2397621	32.42%	2.464%

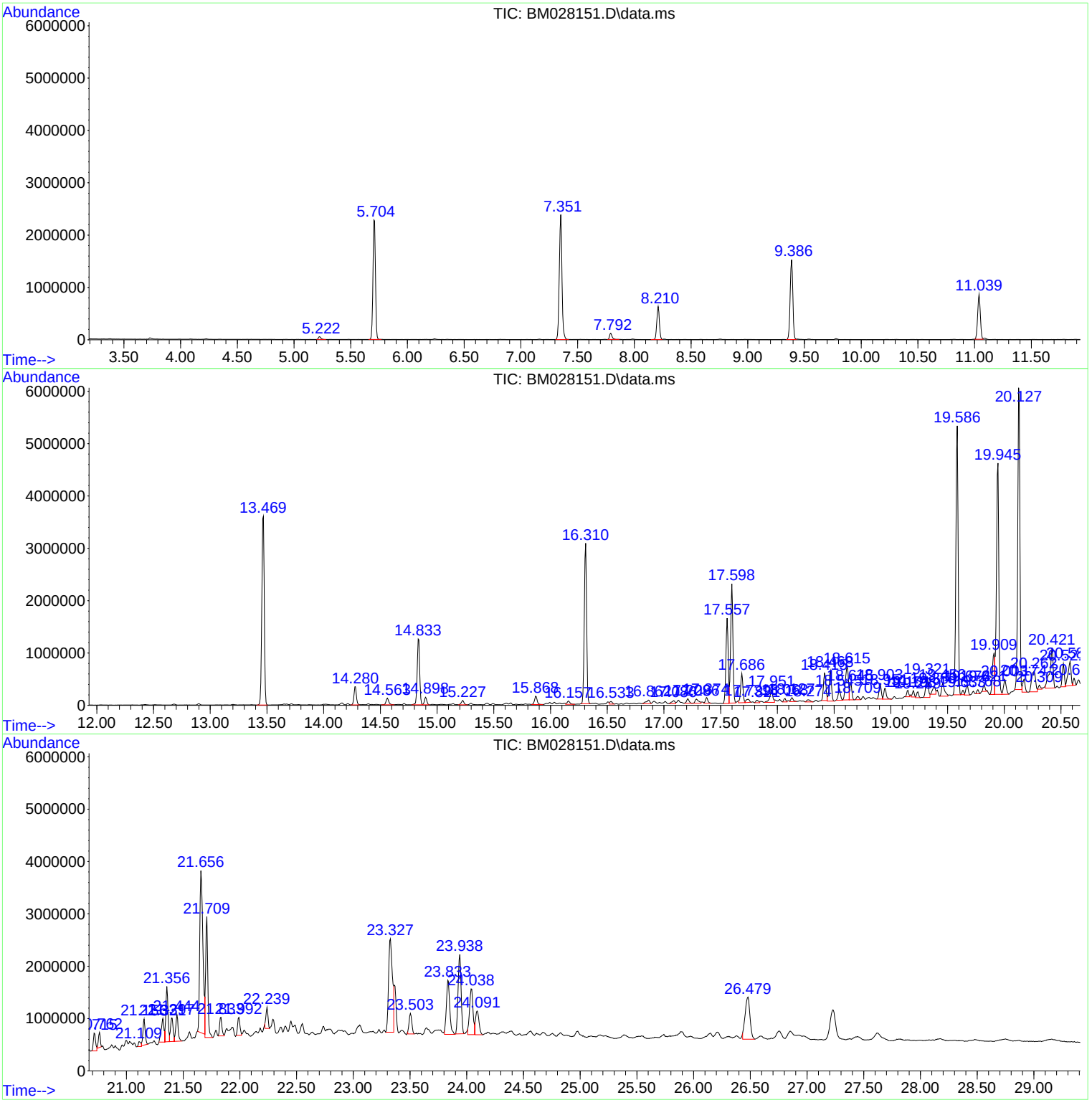
Sum of corrected areas: 97322223

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

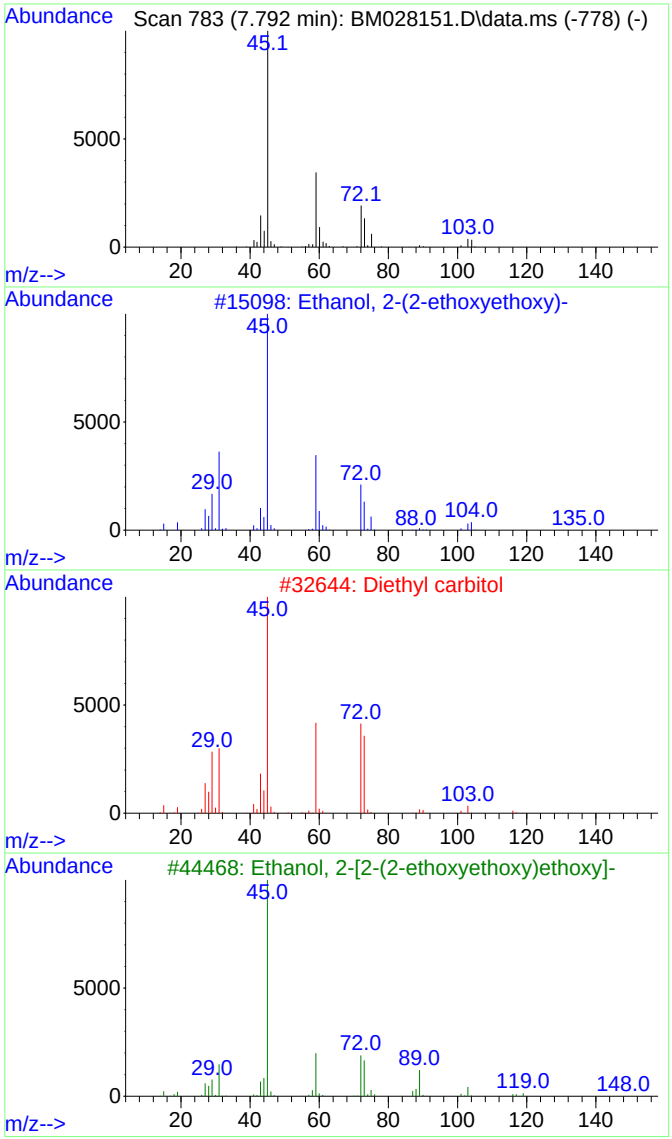
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

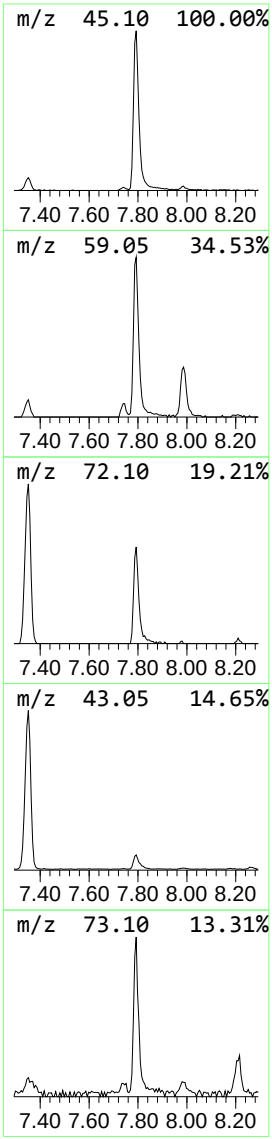
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.792	3.88 ng	192045	1,4-Dichlorobenzene-d4	8.210

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	90
2	Diethyl carbitol	162	C8H18O3	000112-36-7	72
3	Ethanol, 2-[2-(2-ethoxyethoxy)et...	178	C8H18O4	000112-50-5	64
4	Ethanol, 2-(2-methoxyethoxy)-	120	C5H12O3	000111-77-3	42
5	.beta.-Methoxyethoxymethyl chloride	124	C4H9ClO2	003970-21-6	36





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

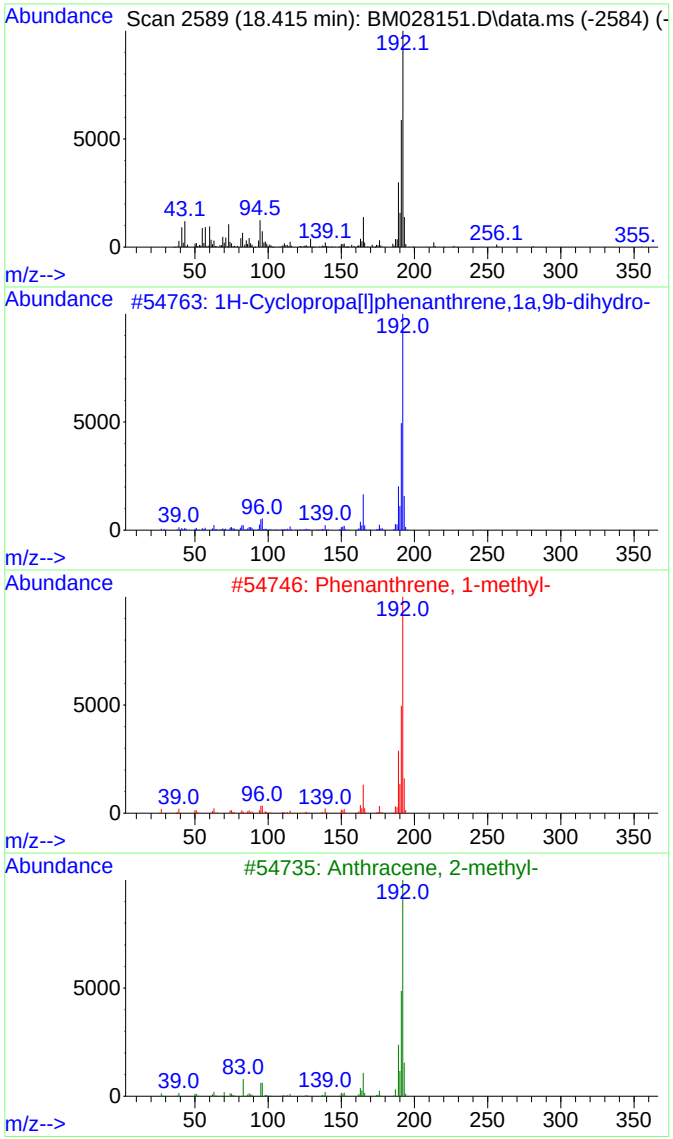
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

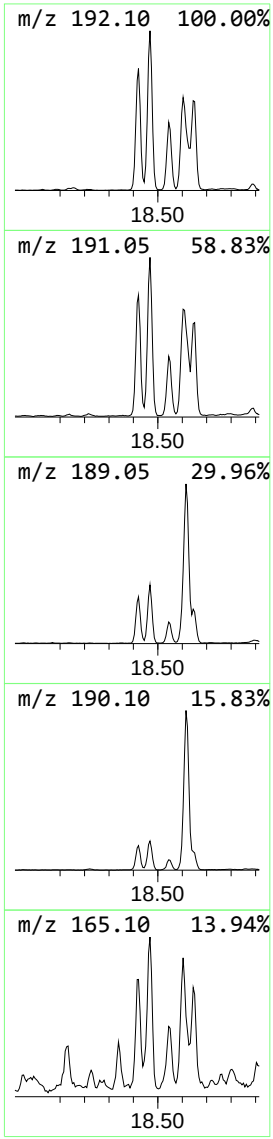
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.415	7.06 ng	790139	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	89





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

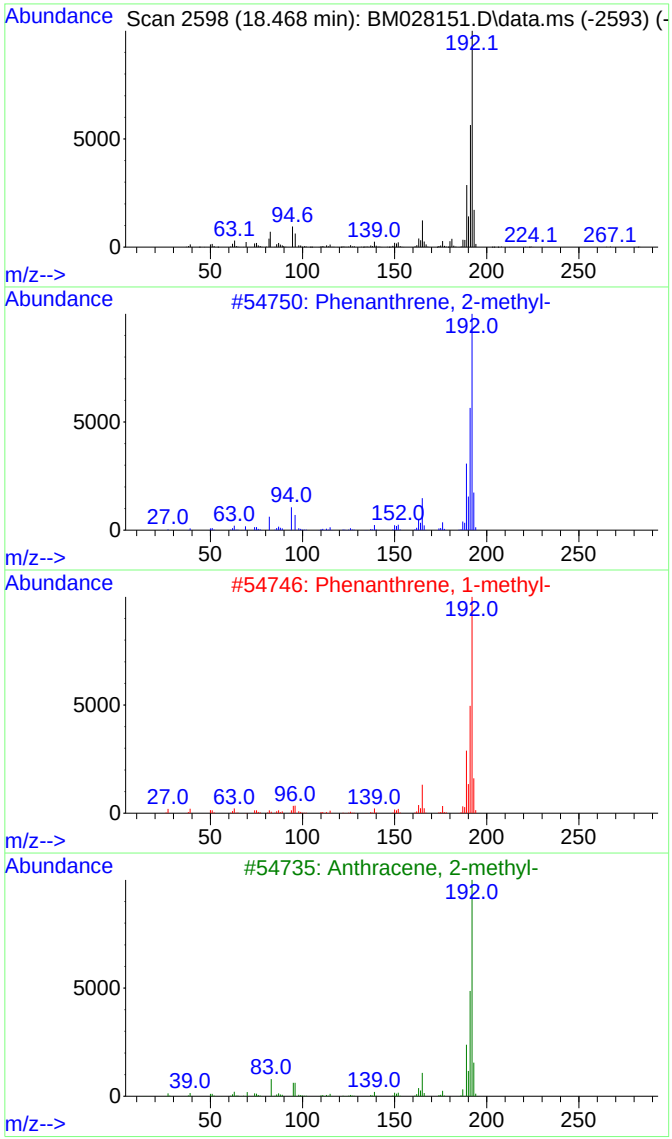
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

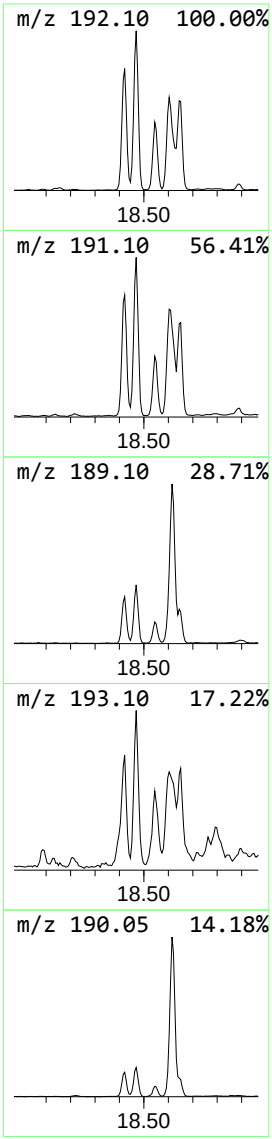
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.468	7.49 ng	838619	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

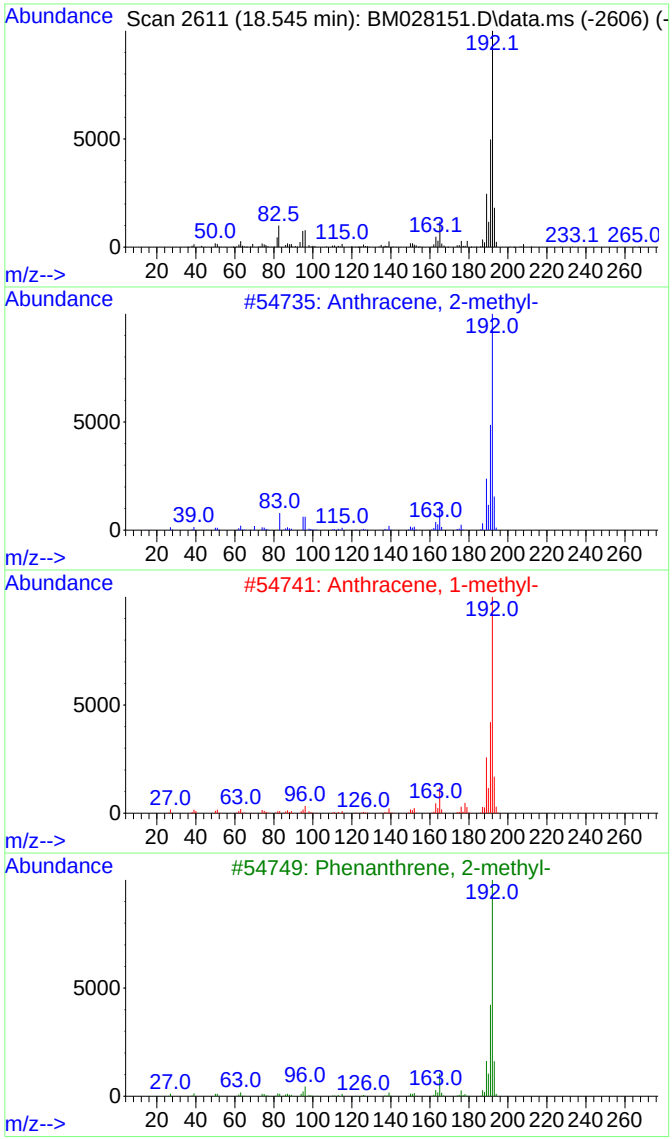
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

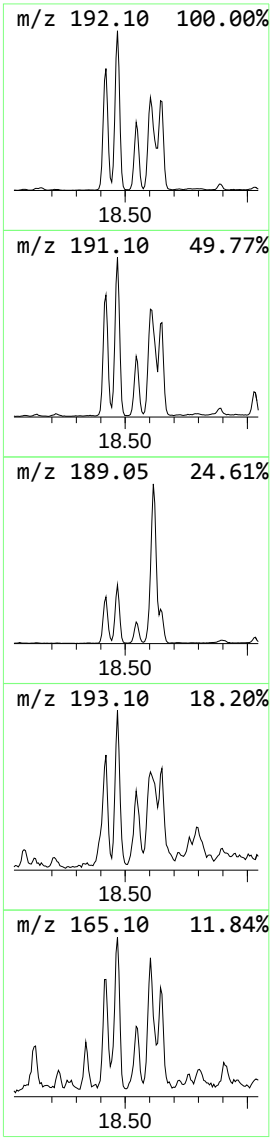
****

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.545	2.76 ng	309059	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

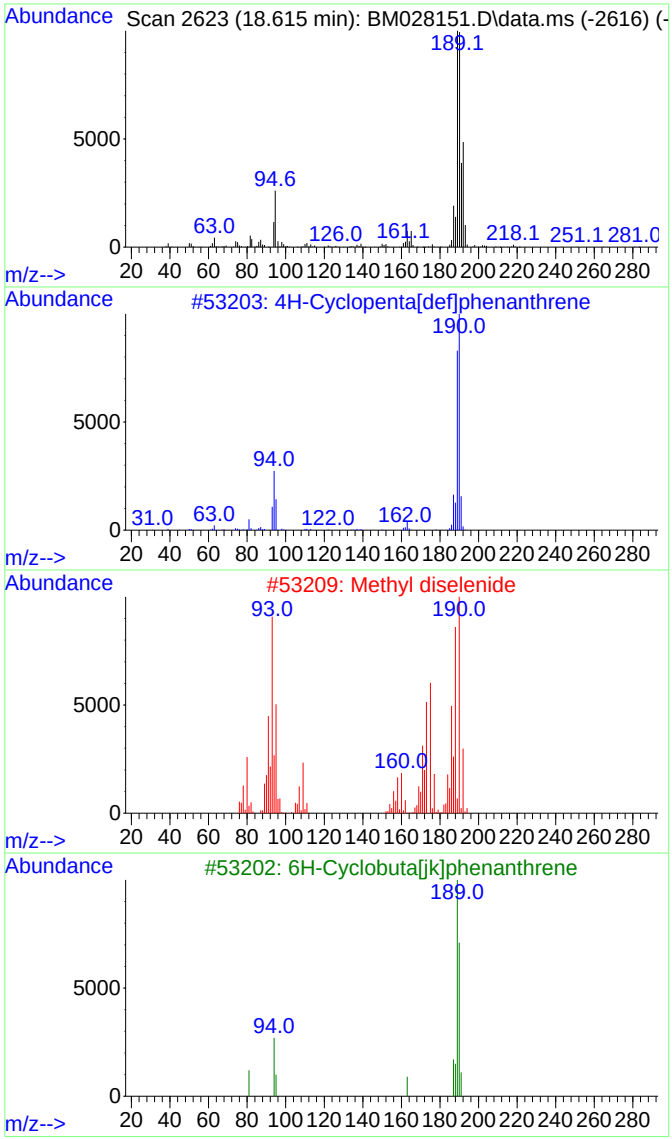
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

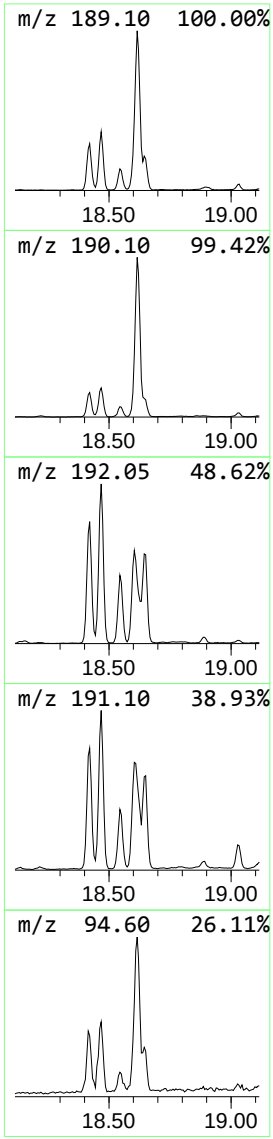
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.615	10.54 ng	1180000	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Methyl diselenide	190	C2H6Se2	007101-31-7	43
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	25
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

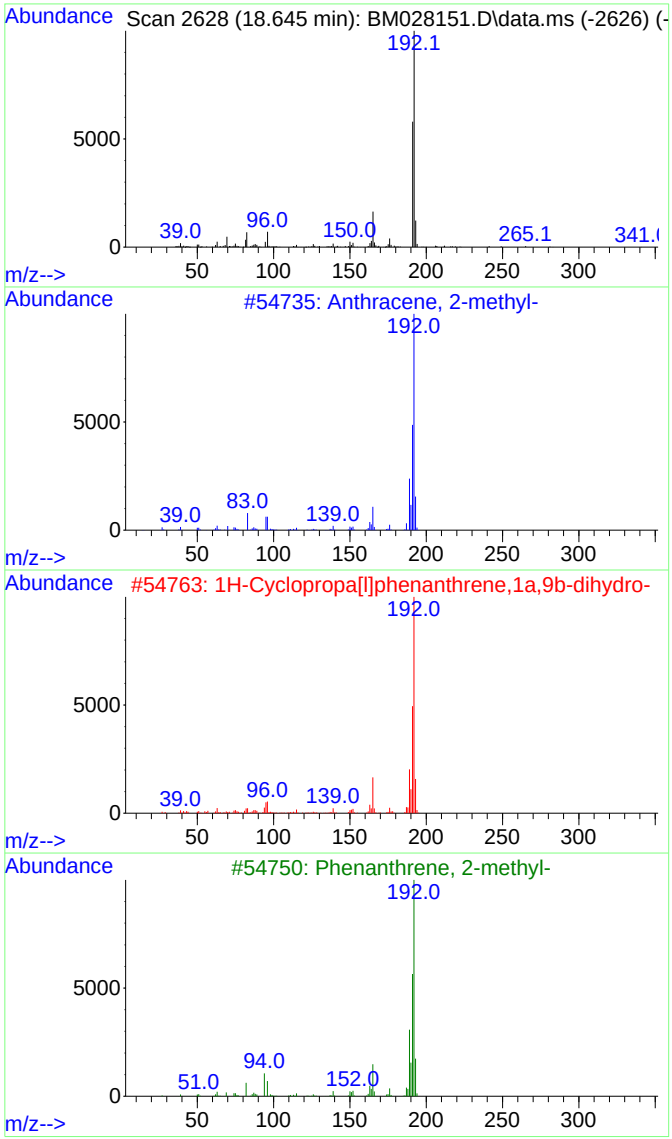
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

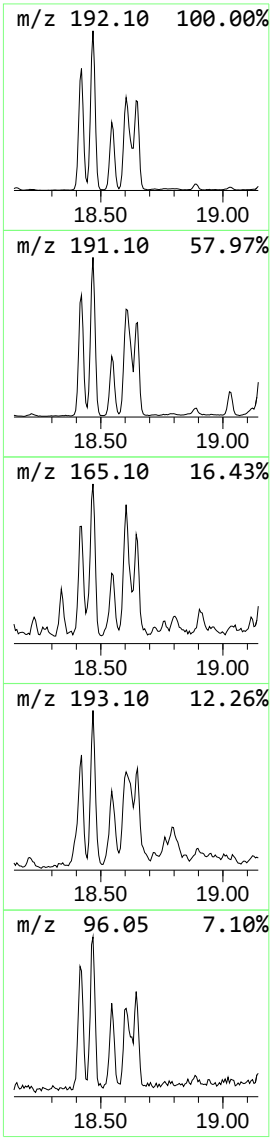
****

Peak Number 6 Anthracene, 9-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.645	3.49 ng	390428	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

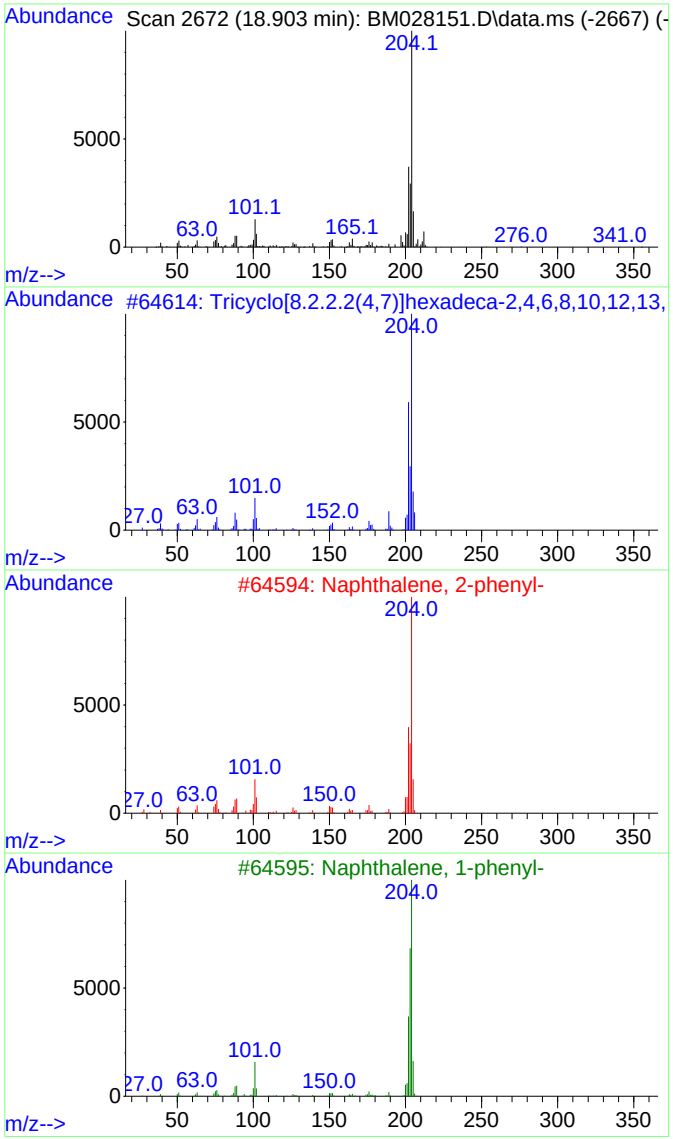
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

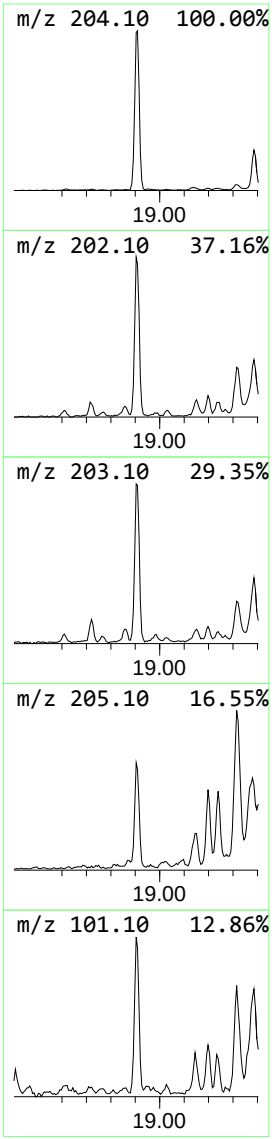
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.904	3.65 ng	408461	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
5	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

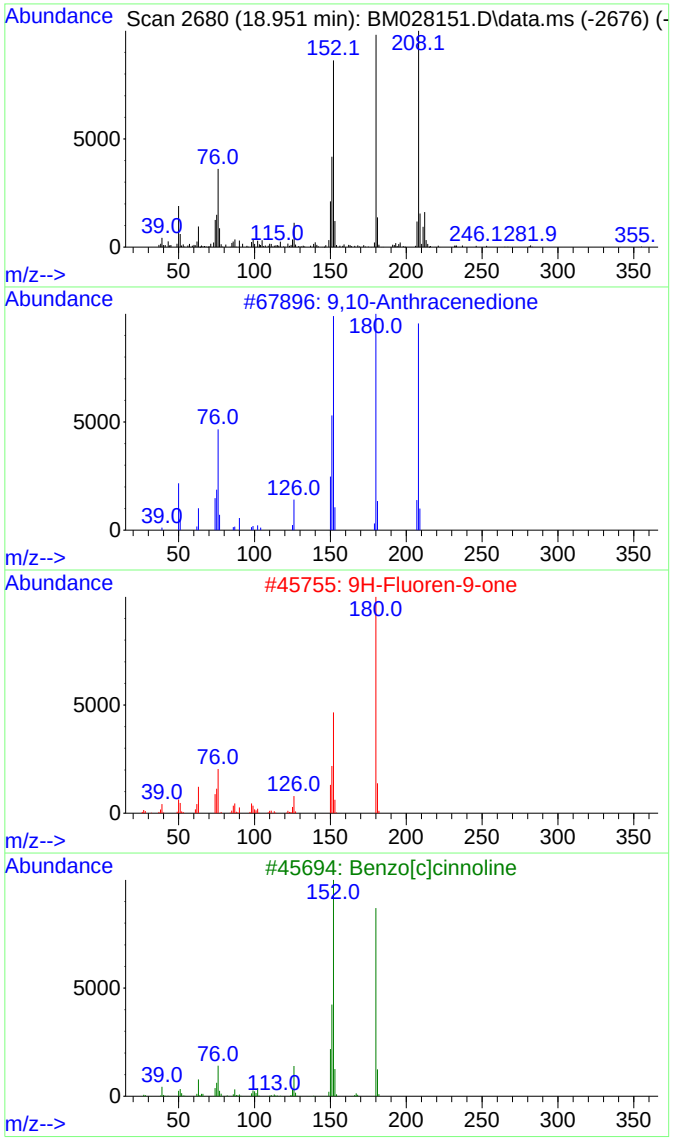
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

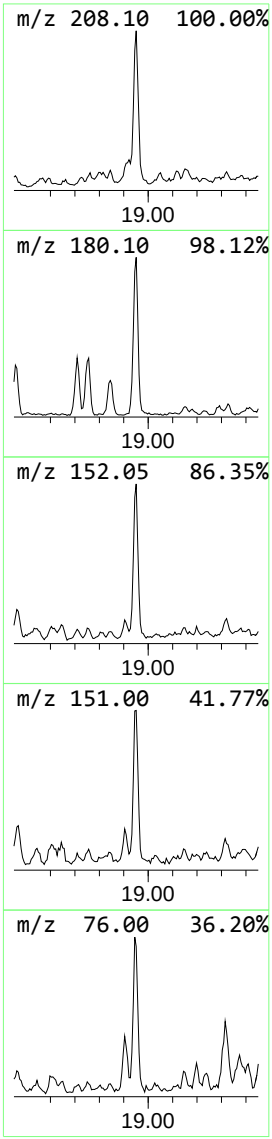
****

Peak Number 8 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.951	2.71 ng	303738	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

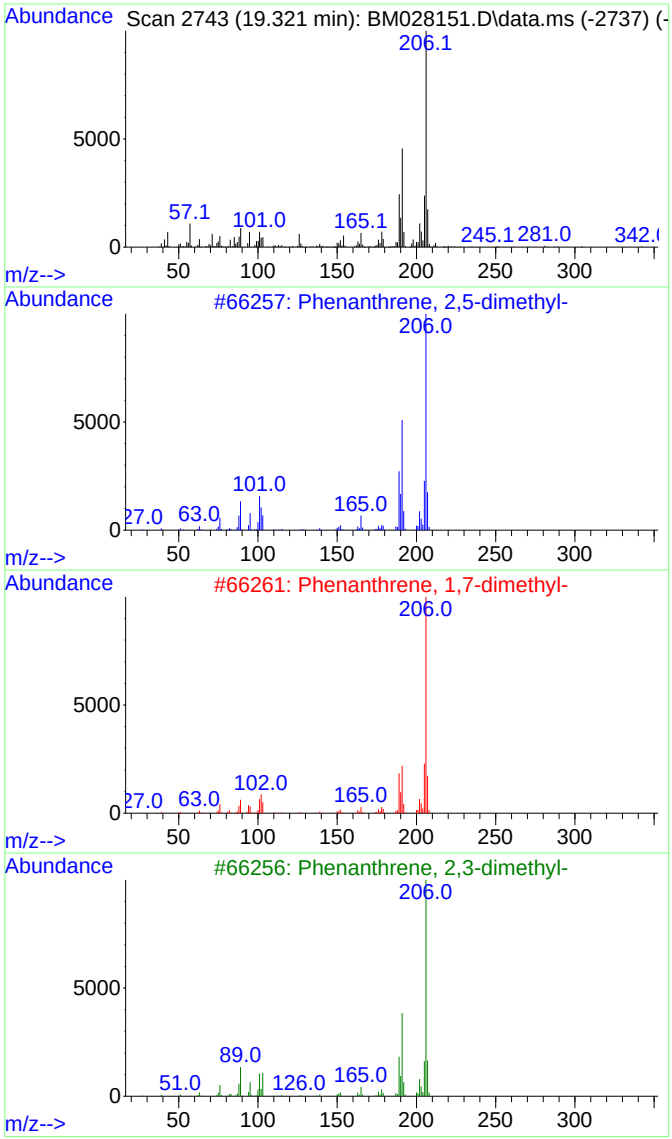
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

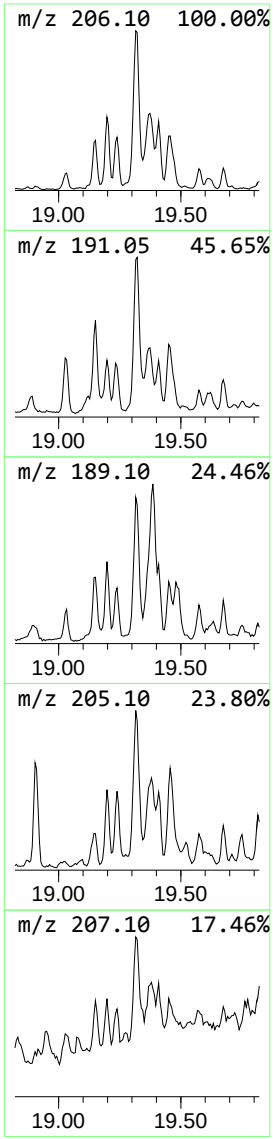
****

Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.321	5.73 ng	642096	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

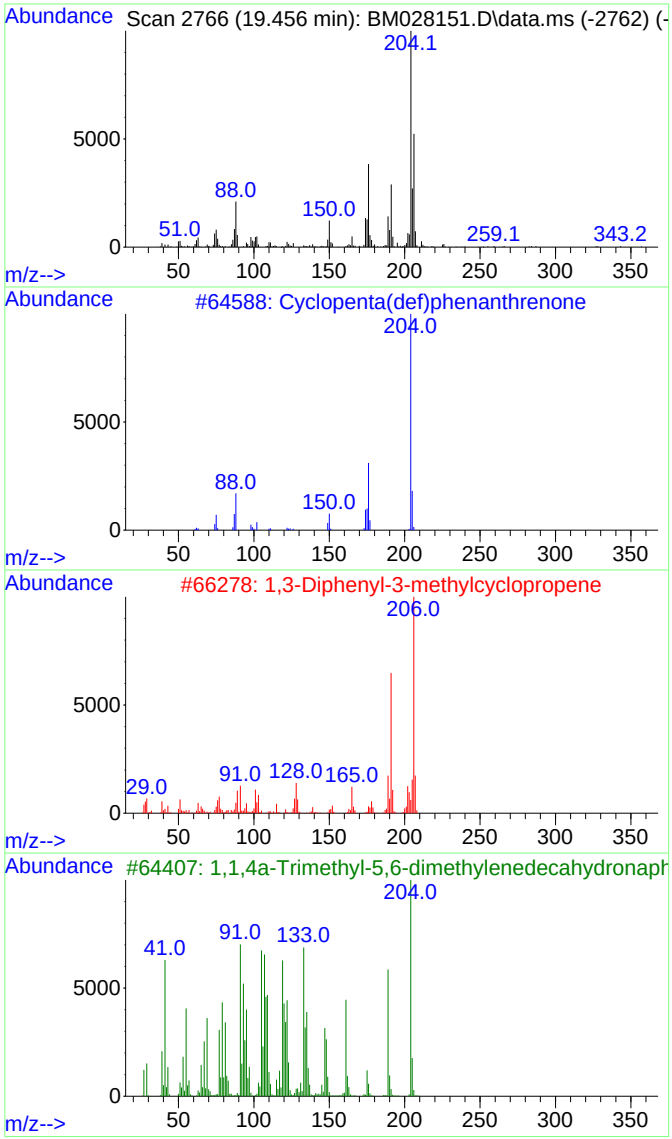
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

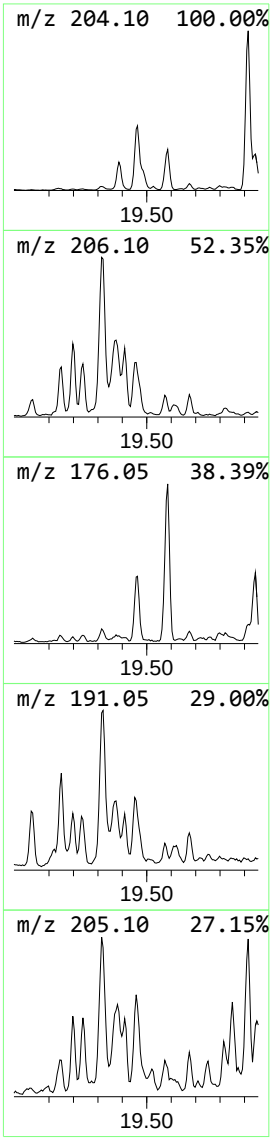
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.456	4.04 ng	452383	Phenanthrene-d10	17.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	60
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	38
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	35
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

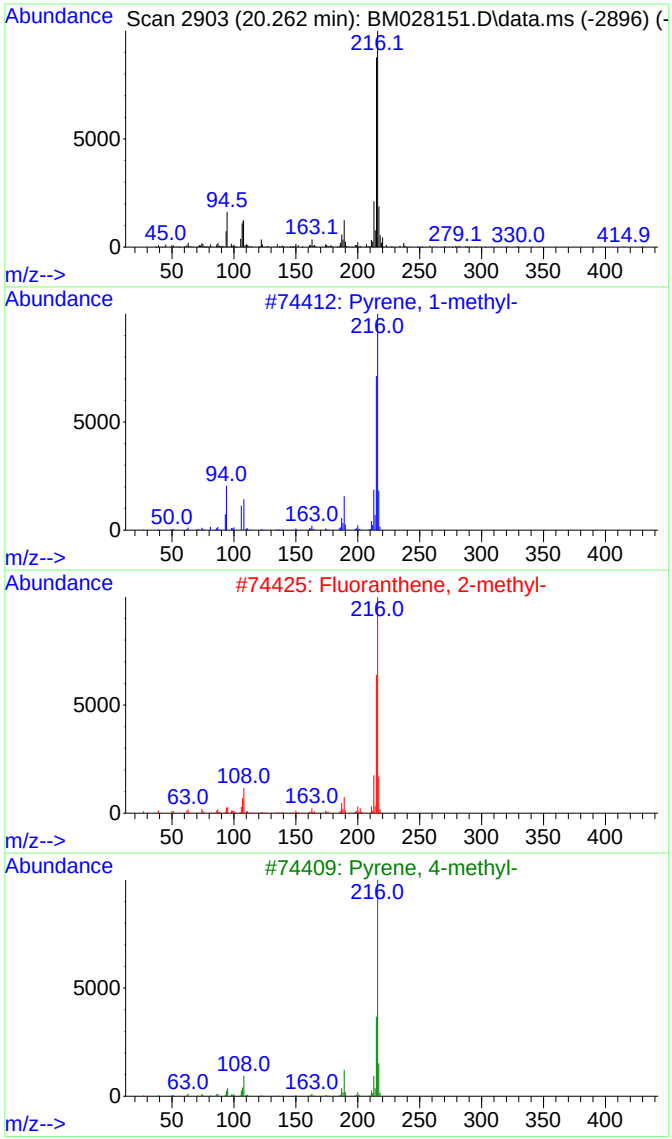
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

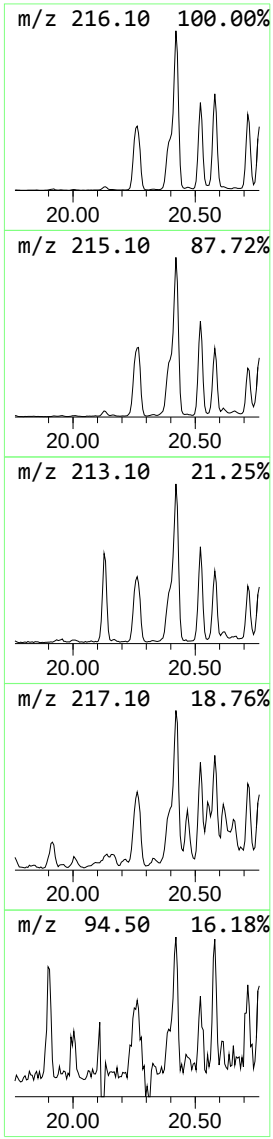
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.262	3.14 ng	952468	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

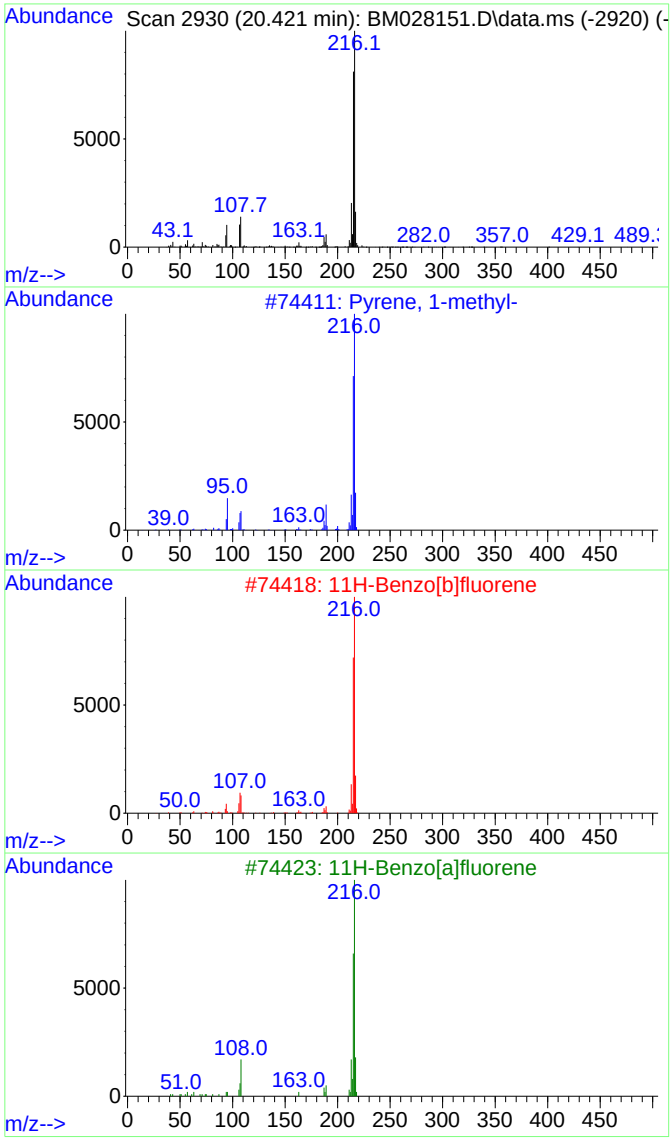
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

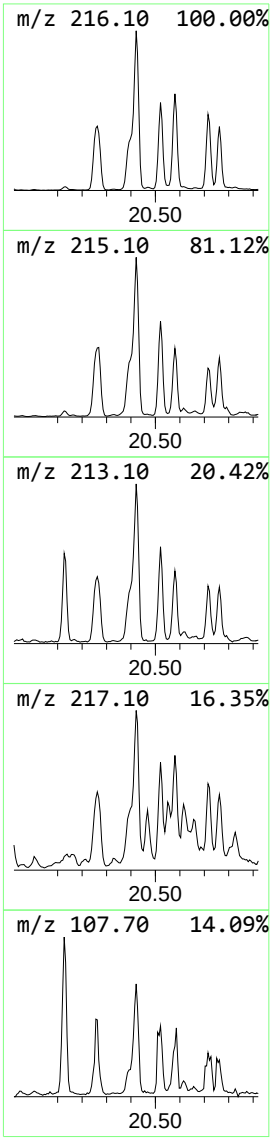
****

Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.421	5.03 ng	1522900	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	trans-p-(Trifluoromethyl)cinnami...	216	C10H7F3O2	016642-92-5	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

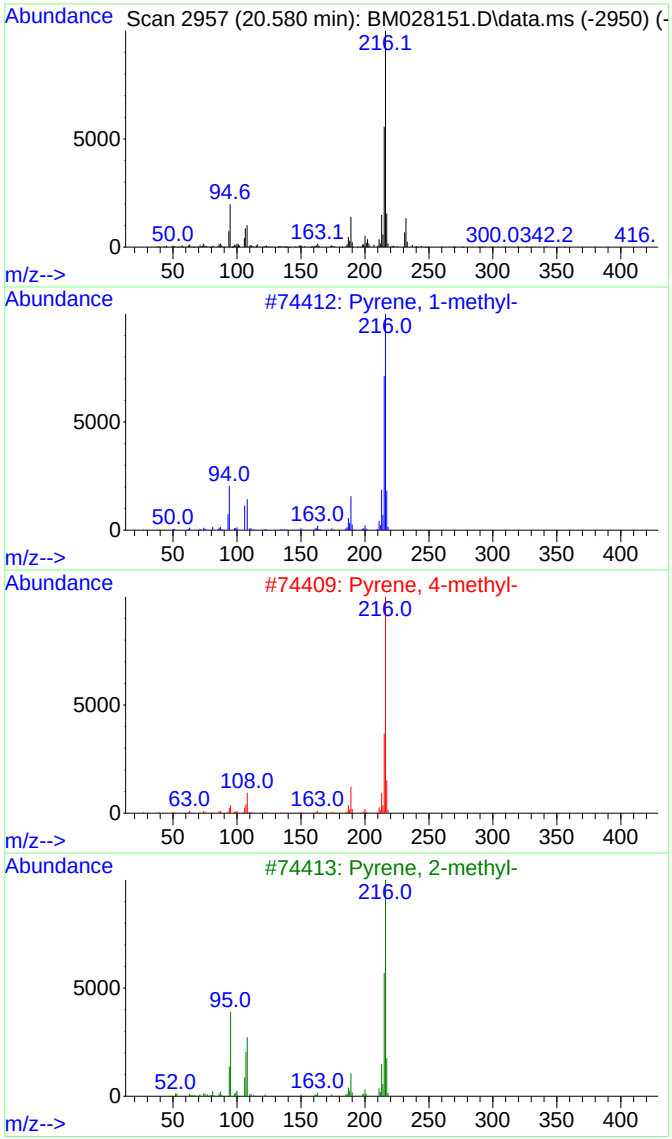
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

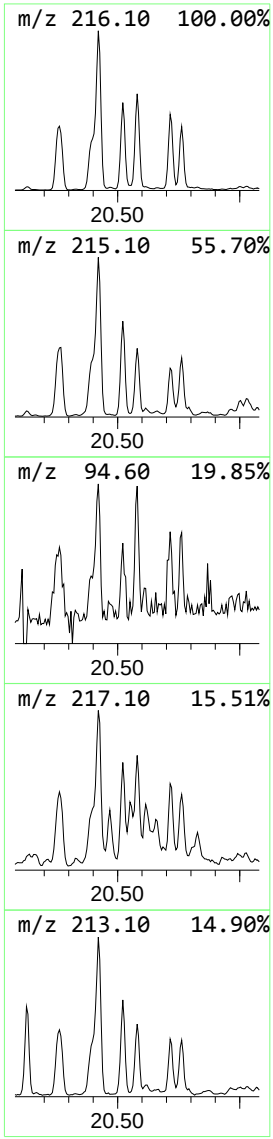
****

Peak Number 13 Pyrene, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.580	2.78 ng	842473	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

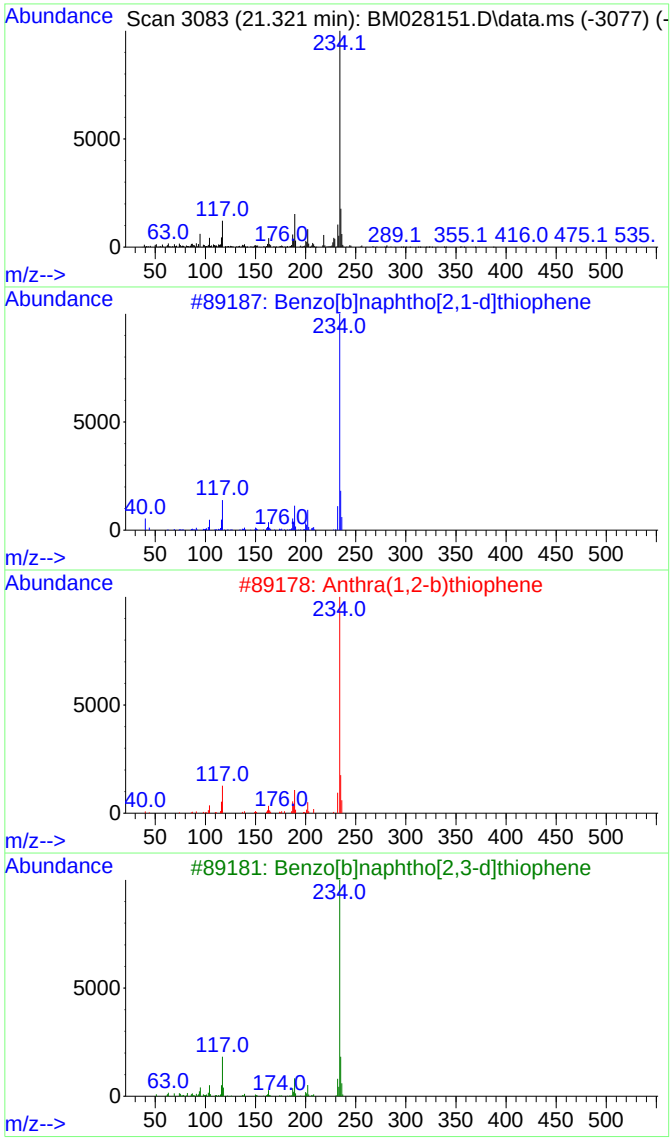
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

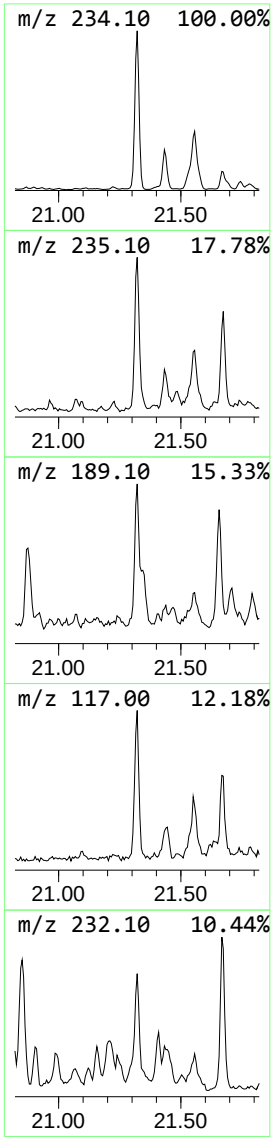
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.321	2.66 ng	805219	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	98
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	98
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	96
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	93
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

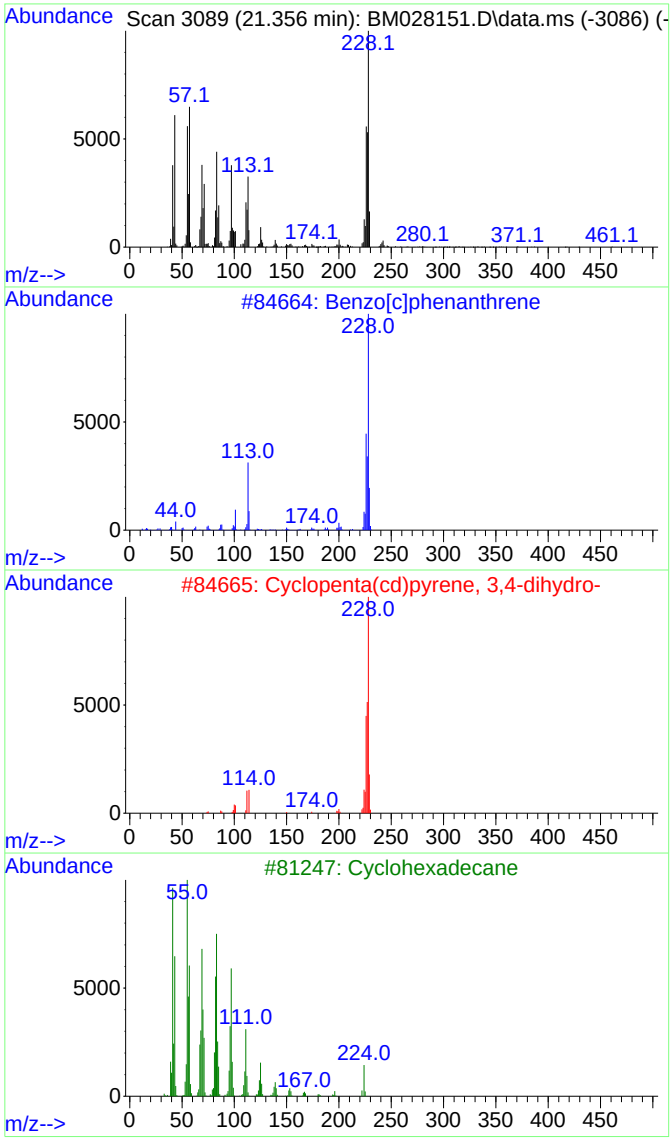
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

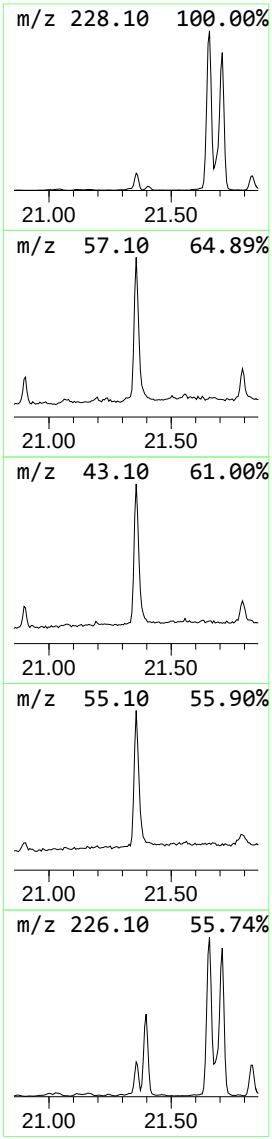
****

Peak Number 15 Benzo[c]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.356	4.56 ng	1380270	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	80
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	46
3	Cyclohexadecane	224	C16H32	000295-65-8	44
4	Purine-6(1H)-thione, 3,7-dimethy...	228	C7H8N4Se	023663-58-3	43
5	Chrysene	228	C18H12	000218-01-9	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

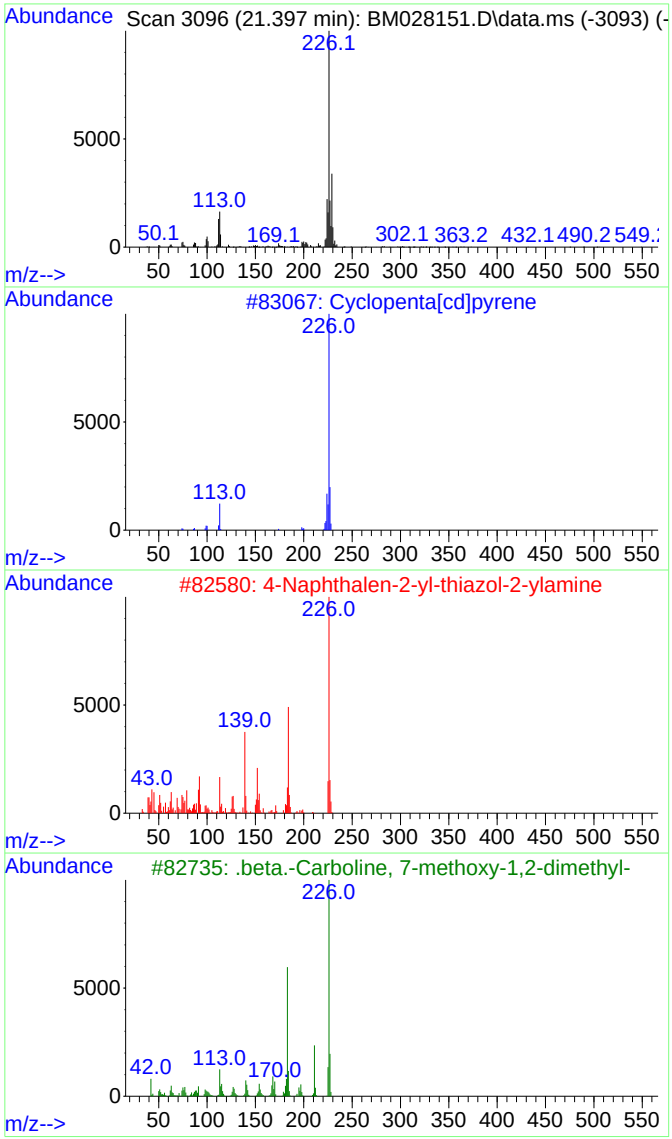
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

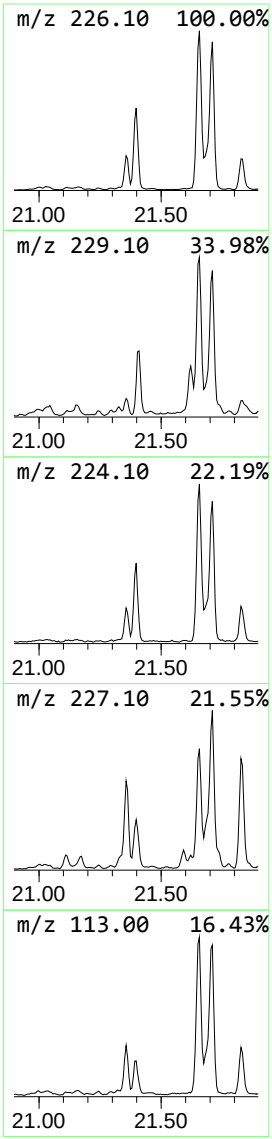
****

Peak Number 16 Cyclopenta[cd]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.397	2.33 ng	704412	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	52
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	50
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	47
5	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

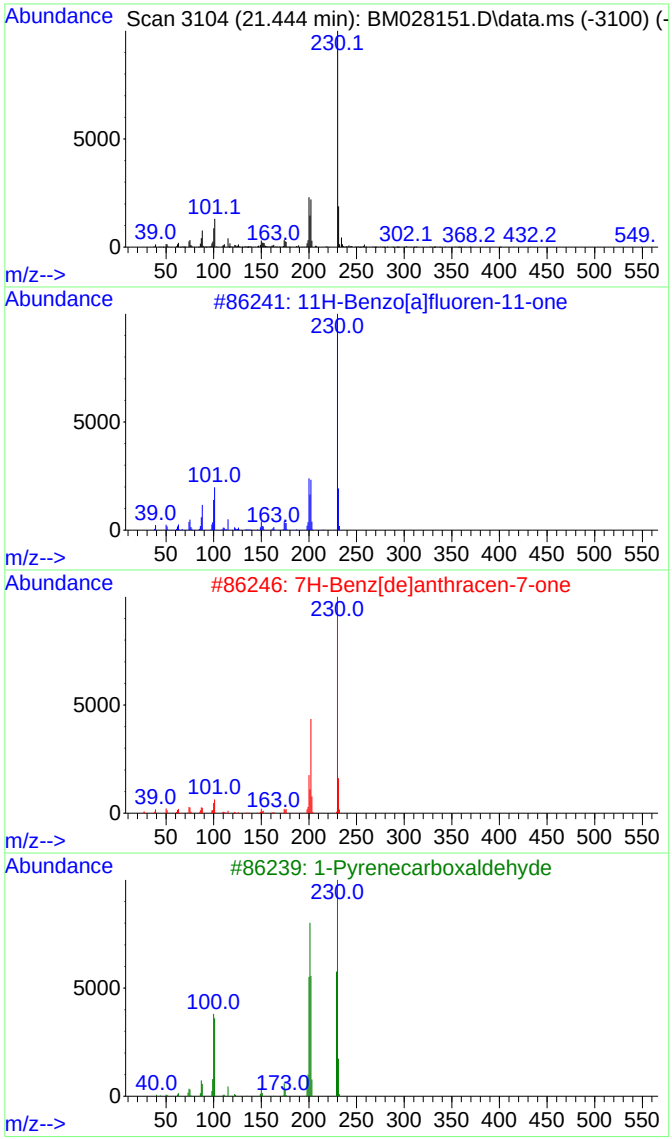
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

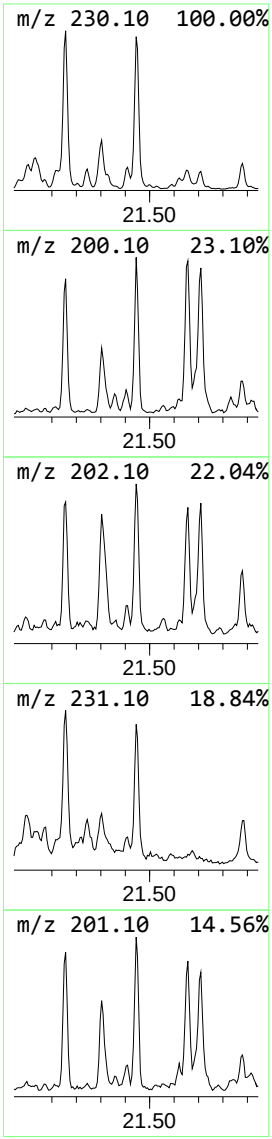
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 11H-Benzo[a]fluoren-11-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.445	2.44 ng	739499	Chrysene-d12	21.668

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	o-Terphenyl	230	C18H14	000084-15-1	53
5	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

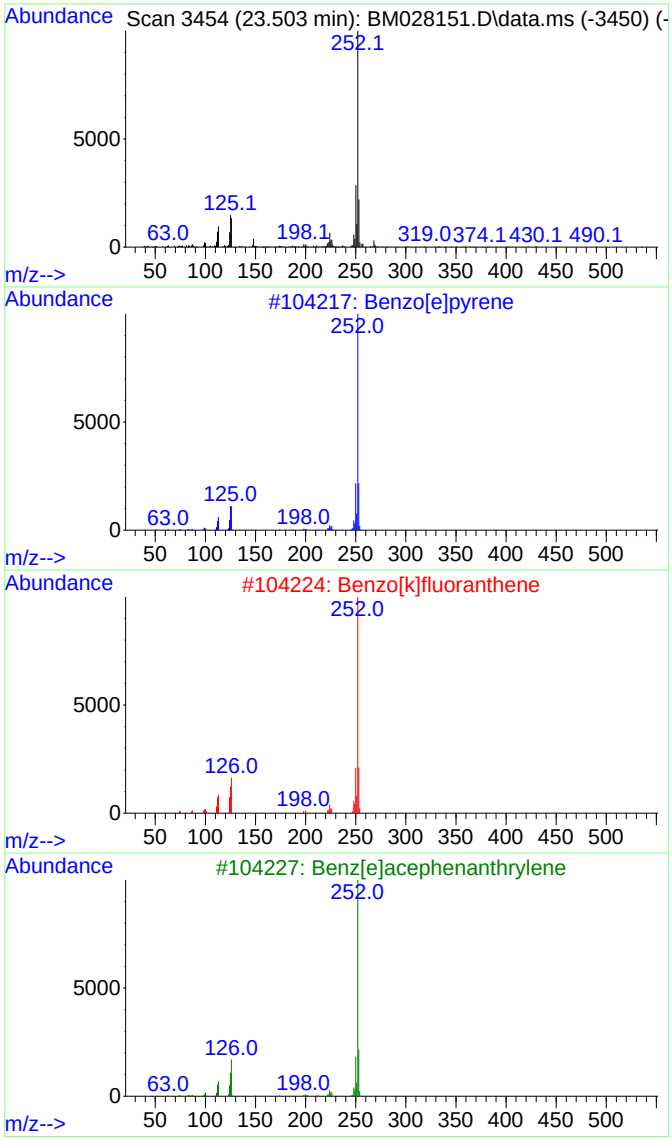
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

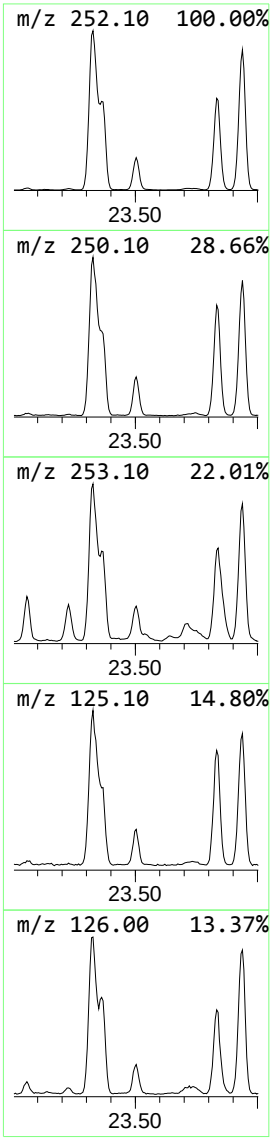
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.503	7.12 ng	650882	Perylene-d12	24.038

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	96
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

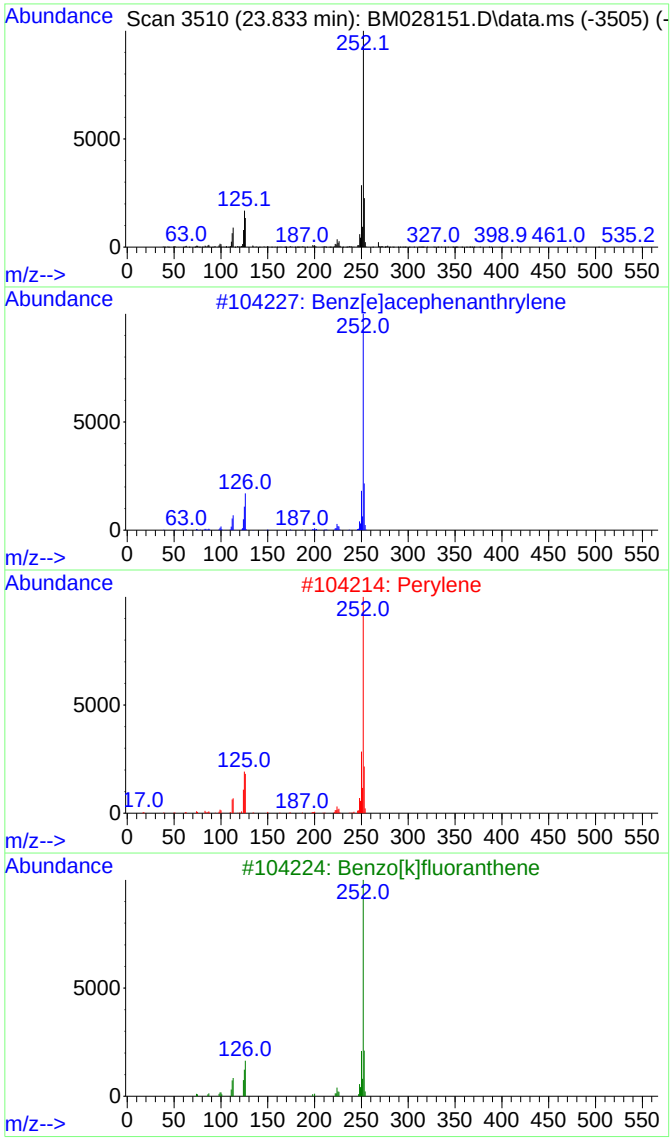
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

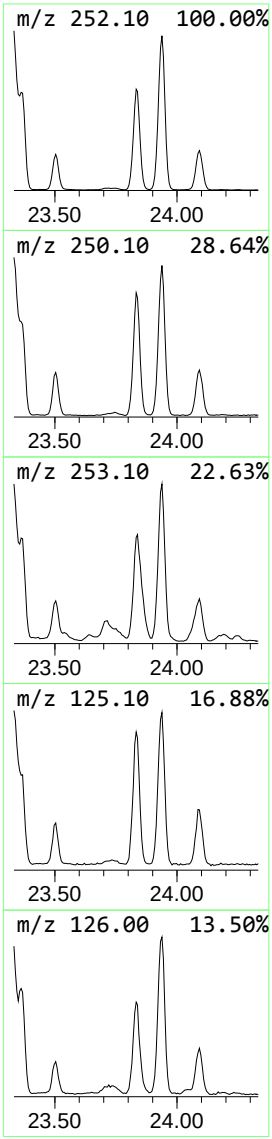
****

Peak Number 19 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.833	23.12 ng	2112540	Perylene-d12	24.038

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





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

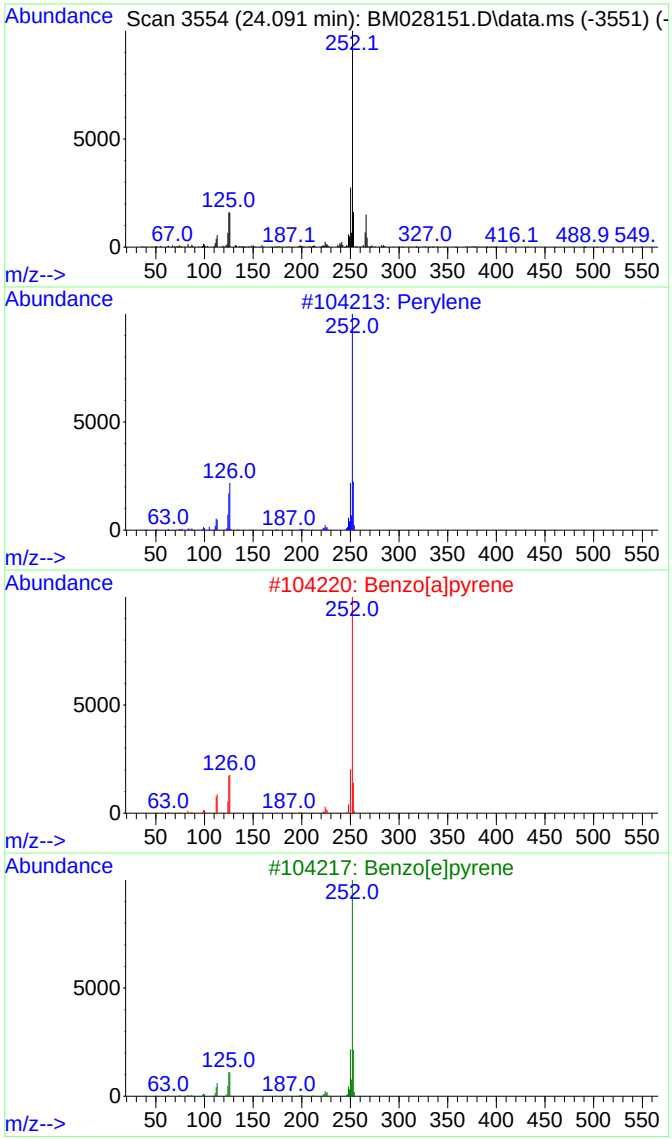
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

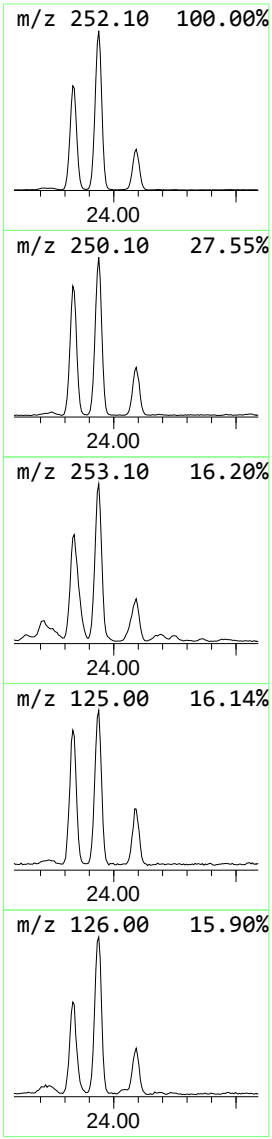
****

Peak Number 20 unknown24.091 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.091	9.54 ng	872171	Perylene-d12	24.038

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	91
3	Benzo[e]pyrene	252	C20H12	000192-97-2	83
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	64
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121720\
Data File : BM028151.D
Acq On : 17 Dec 2020 21:10
Operator : JU/CG
Sample : L5036-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121620.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
Ethanol, 2-(2-e...	7.792	3.9	ng	192045	1	8.210	990200	20.0
1H-Cyclopropa[l...	18.415	7.1	ng	790139	4	17.557	2239800	20.0
Phenanthrene, 2...	18.468	7.5	ng	838619	4	17.557	2239800	20.0
Anthracene, 2-m...	18.545	2.8	ng	309059	4	17.557	2239800	20.0
4H-Cyclopenta[d...	18.615	10.5	ng	1180000	4	17.557	2239800	20.0
Anthracene, 9-m...	18.645	3.5	ng	390428	4	17.557	2239800	20.0
Tricyclo[8.2.2....	18.904	3.6	ng	408461	4	17.557	2239800	20.0
9,10-Anthracene...	18.951	2.7	ng	303738	4	17.557	2239800	20.0
Phenanthrene, 2...	19.321	5.7	ng	642096	4	17.557	2239800	20.0
Cyclopenta(def)...	19.456	4.0	ng	452383	4	17.557	2239800	20.0
Pyrene, 1-methyl-	20.262	3.1	ng	952468	5	21.668	6058680	20.0
11H-Benzo[b]flu...	20.421	5.0	ng	1522900	5	21.668	6058680	20.0
Pyrene, 4-methyl-	20.580	2.8	ng	842473	5	21.668	6058680	20.0
Benzo[b]naphtho...	21.321	2.7	ng	805219	5	21.668	6058680	20.0
Benzo[c]phenant...	21.356	4.6	ng	1380270	5	21.668	6058680	20.0
Cyclopenta[cd]p...	21.397	2.3	ng	704412	5	21.668	6058680	20.0
11H-Benzo[a]flu...	21.445	2.4	ng	739499	5	21.668	6058680	20.0
Benzo[e]pyrene	23.503	7.1	ng	650882	6	24.038	1827770	20.0
Perylene	23.833	23.1	ng	2112540	6	24.038	1827770	20.0
unknown24.091	24.091	9.5	ng	872171	6	24.038	1827770	20.0