LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

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-BM043019.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	5.346	395	401	411	rBV	1203065	1743795	21.24%	1.860%
2	6.934	664	671	681	rBV	1147860	1860622	22.66%	1.984%
3	7.293	726	732	745	rBV	1204558	1923955	23.44%	2.052%
4	7.763	805	812	818	rBV	238098	377998	4.60%	0.403%
5	8.081	859	866	875	rBV	903381	1436414	17.50%	1.532%
6	8.928	1003	1010	1023	rBV	650149	1140731	13.90%	1.216%
7	10.557	1280	1287	1292	rBV	248785	435935	5.31%	0.465%
8	10.604	1292	1295	1305	rVB	64125	100937	1.23%	0.108%
9	13.028	1700	1707	1719	rBV	1372387	2052075	25.00%	2.188%
10	13.863	1843	1849	1861	rBV	294682	452970	5.52%	0.483%
11	14.133	1888	1895	1908	rBV	372075	605000	7.37%	0.645%
12	14.410	1932	1942	1949	rBV2	389845	633818	7.72%	0.676%
13	15.010	2038	2044	2050	rBV3	45077	85377	1.04%	0.091%
14	15.280	2086	2090	2096	rBV	79601	108178	1.32%	0.115%
15	15.904	2185	2196	2210	rBV	1372386	2032692	24.76%	2.168%
16	16.133	2227	2235	2245	rBV7	56532	144037	1.75%	0.154%
17	16.463	2284	2291	2296	rBV5	37827	97391	1.19%	0.104%
18	16.733	2333	2337	2344	rVV	70423	111465	1.36%	0.119%
19	16.816	2346	2351	2357	rVB3	118335	198893	2.42%	0.212%
20	16.980	2374	2379	2386	rVB	93414	141231	1.72%	0.151%
21	17.157	2404	2409	2413	rBV2	541688	850140	10.36%	0.907%
22	17.204	2413	2417	2427	rVB	1425456	2094447	25.51%	2.233%
23	17.292	2427	2432	2437	rBV	343021	499107	6.08%	0.532%
24	17.345	2437	2441	2447	rVB3	70228	138627	1.69%	0.148%
25	17.563	2470	2478	2484	rBV3	28673	89686	1.09%	0.096%
26	17.639	2485	2491	2494	rVV2	67455	136766	1.67%	0.146%
27	17.674	2494	2497	2503	rVV	173975	252522	3.08%	0.269%
28	17.739	2503	2508	2514	rVB2	176370	259998	3.17%	0.277%
29	17.886	2528	2533	2540	rVB	71287	149246	1.82%	0.159%
30	17.957	2540	2545	2549	rBV	65677	105433	1.28%	0.112%
31	18.033	2553	2558	2562	rBV	628431	961826	11.72%	1.026%
32	18.080	2562	2566	2572	rVB	645151	899974	10.96%	0.960%
33	18.163	2576	2580	2585	rVB	132778	186482	2.27%	0.199%
34	18.227	2585	2591	2595	rBV3	715563	1358670	16.55%	1.449%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

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-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.268	2595	2598	2605	rVB	490968	660797	8.05%	0.705%
36	18.345	2606	2611	2615	rBV4	71363	110089	1.34%	0.117%
37	18.433	2622	2626	2630	rVB2	97315	125585	1.53%	0.134%
38	18.539	2637	2644	2648	rBV	499744	747875	9.11%	0.798%
39	18.586	2648	2652	2661	rVB	588176	857659	10.45%	0.915%
40	18.751	2676	2680	2682	rBV2	86793	116659	1.42%	0.124%
41	18.780	2682	2685	2690	rVB2	114365	159831	1.95%	0.170%
42	18.833	2690	2694	2697	rVB	134482	161257	1.96%	0.172%
43	18.874	2697	2701	2705	rVB2	112353	143511	1.75%	0.153%
44	18.951	2709	2714	2721	rBV2	506912	1085643	13.22%	1.158%
45	19.045	2728	2730	2734	rVB	201423	230217	2.80%	0.245%
46	19.104	2734	2740	2751	rBV2	493178	967586	11.79%	1.032%
47	19.227	2751	2761	2766	rBV	2975071	4224054	51.45%	4.504%
48	19.286	2766	2771	2774	rBV	190727	257425	3.14%	0.275%
49	19.321	2774	2777	2781	rVB2	153682	200329	2.44%	0.214%
50	19.374	2781	2786	2790	rBV	577519	741457	9.03%	0.791%
51	19.427	2790	2795	2798	rBV2	233593	314185	3.83%	0.335%
52	19.468	2798	2802	2804	rBV2	107406	152746	1.86%	0.163%
53	19.492	2804	2806	2810	rVB	210171	225354	2.75%	0.240%
54	19.592	2813	2823	2830	rVB	5854631	8209543	100.00%	8.755%
55	19.657	2830	2834	2839	rVB2	231190	343746	4.19%	0.367%
56	19.745	2840	2849	2851	rBV3	77217	182791	2.23%	0.195%
57	19.786	2851	2856	2860	rBV	2625724	3200150	38.98%	3.413%
58	19.909	2872	2877	2886	rBV3	487234	1211582	14.76%	1.292%
59	19.998	2887	2892	2895	rBV5	135029	209044	2.55%	0.223%
60	20.051	2895	2901	2904	rBV5	505452	1088447	13.26%	1.161%
61	20.180	2920	2923	2929	rVB3	192878	266248	3.24%	0.284%
62	20.239	2929	2933	2937	rBV	831904	1037371	12.64%	1.106%
63	20.380	2953	2957	2961	rBV	825756	1033595	12.59%	1.102%
64	20.427	2961	2965	2973	rVB	667559	894656	10.90%	0.954%
65	20.739	3016	3018	3023	rBV5	73823	94467	1.15%	0.101%
66	20.833	3029	3034	3040	rVB	558332	829511	10.10%	0.885%
67	20.915	3045	3048	3052	rVB	114356	136560	1.66%	0.146%
68	20.998	3053	3062	3065	rBV2	508586	1012341	12.33%	1.080%
69	21.039	3065	3069	3072	rVV	724548	926340	11.28%	0.988%
70	21.074	3072	3075	3079	rVV	521680	639530	7.79%	0.682%
71	21.133	3081	3085	3090	rVB2	459934	640573	7.80%	0.683%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

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-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	21.339	3114	3120	3126	rBV3	2725801	5708629	69.54%	6.088%
73	21.392	3126	3129	3134	rVB	2743407	3365051	40.99%	3.588%
74	21.468	3139	3142	3147	rVV3	184068	354041	4.31%	0.378%
75	21.521	3148	3151	3154	rVV4	205612	318085	3.87%	0.339%
76	21.562	3154	3158	3171	rVB	1146790	1862194	22.68%	1.986%
77	21.715	3180	3184	3187	rBV3	201075	280645	3.42%	0.299%
78	21.850	3203	3207	3210	rBV	187182	256339	3.12%	0.273%
79	21.903	3210	3216	3222	rVV	645245	1130564	13.77%	1.206%
80	21.956	3222	3225	3232	rVB2	381977	650562	7.92%	0.694%
81	22.027	3233	3237	3241	rBV2	302945	456577	5.56%	0.487%
82	22.109	3247	3251	3253	rBV3	254737	354312	4.32%	0.378%
83	22.209	3265	3268	3273	rVB	271638	388057	4.73%	0.414%
84	22.521	3318	3321	3325	rVV2	172117	262697	3.20%	0.280%
85	22.568	3326	3329	3335	rVB	352386	532515	6.49%	0.568%
86	22.956	3388	3395	3407	rVB2	1859619	5240126	63.83%	5.588%
87	23.127	3419	3424	3433	rVB	405273	758968	9.24%	0.809%
88	23.445	3471	3478	3488	rVB	1577619	3017700	36.76%	3.218%
89	23.544	3488	3495	3501	rBV	1964955	3609166	43.96%	3.849%
90	23.644	3507	3512	3516	rBV	492273	853474	10.40%	0.910%
91	23.692	3517	3520	3527	rVB2	335494	660970	8.05%	0.705%
92	24.139	3592	3596	3602	rVB4	175191	329385	4.01%	0.351%
93	24.533	3658	3663	3675	rVB3	220423	565698	6.89%	0.603%
94	25.968	3898	3907	3918	rVB2	835348	2505246	30.52%	2.672%
95	26.333	3962	3969	3975	rBV3	245383	690586	8.41%	0.736%
96	26.697	4020	4031	4046	rVB	768591	2518146	30.67%	2.685%

Sum of corrected areas: 93774925

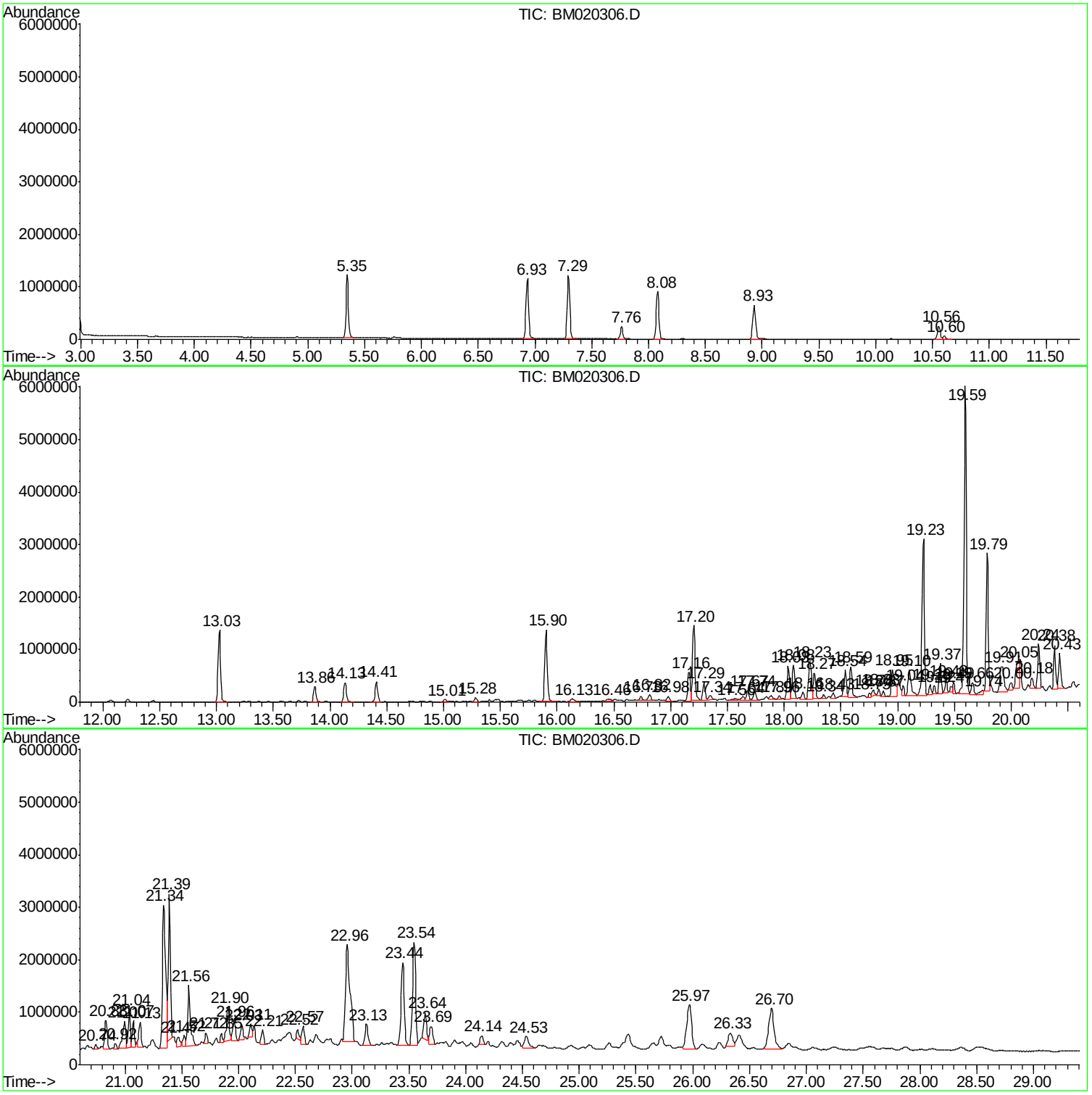
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

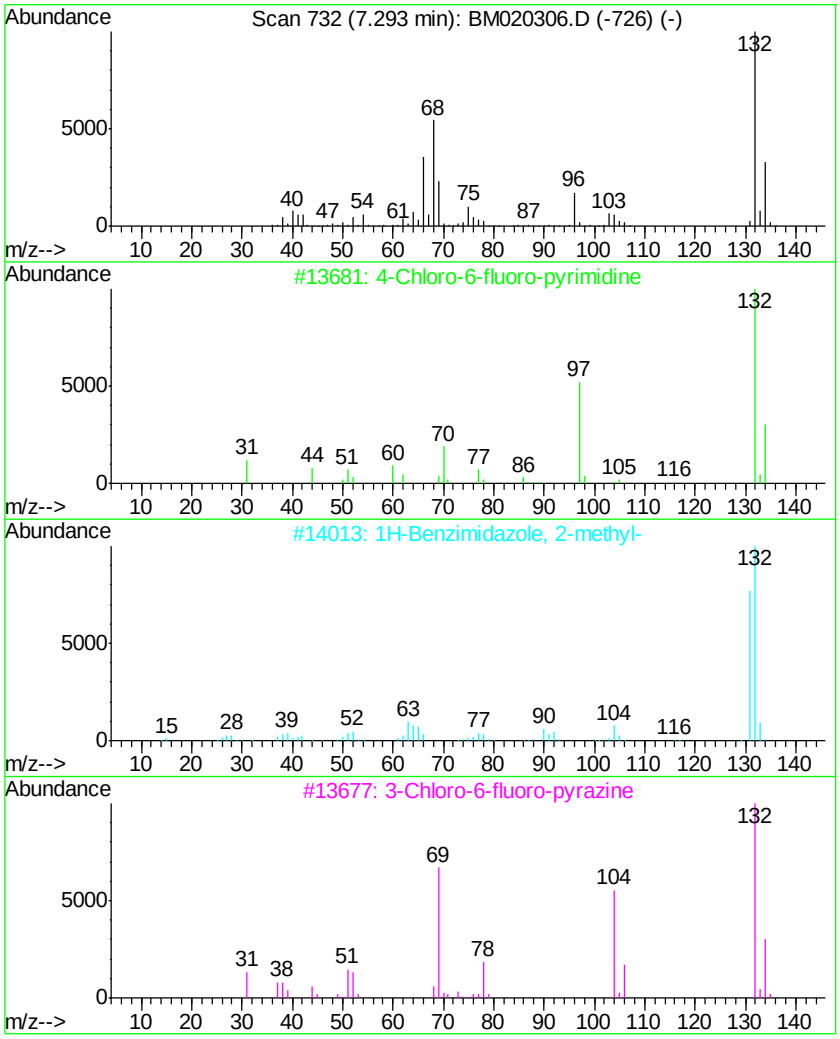
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

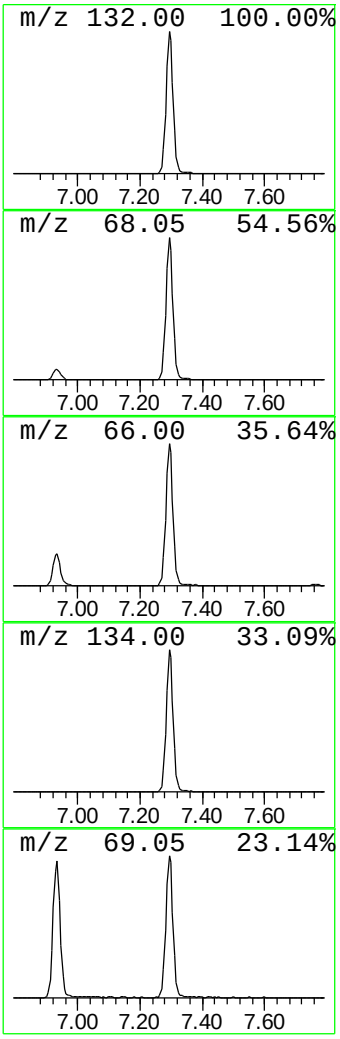
****

Peak Number 1 unknown7.29 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.29	101.80 ng	1923960	1,4-Dichlorobenzene-d4	7.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
3	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	11





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

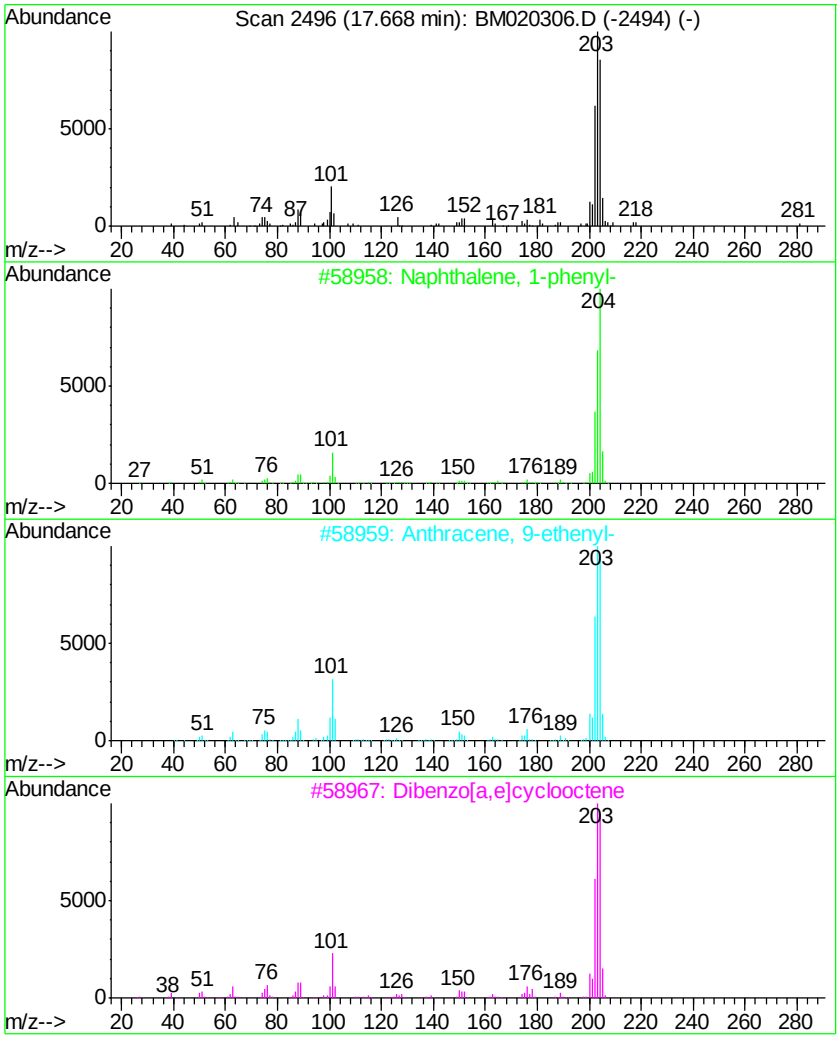
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

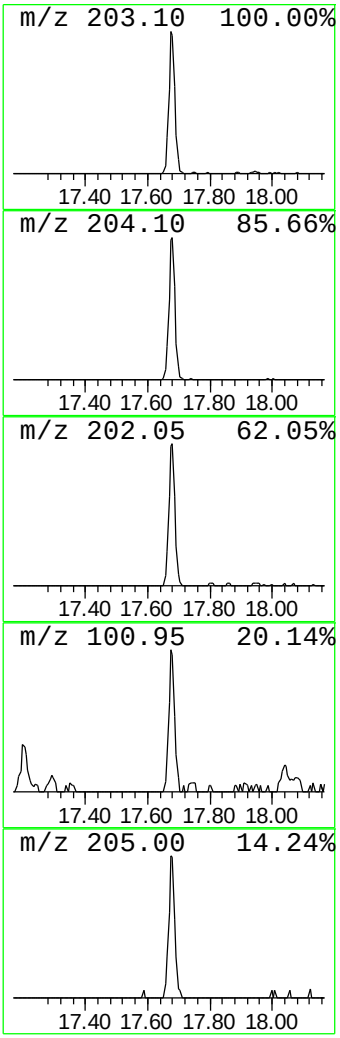
****

Peak Number 3 Naphthalene, 1-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	5.94 ng	252522	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	91
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	90
3	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	81
5	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	74





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
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Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

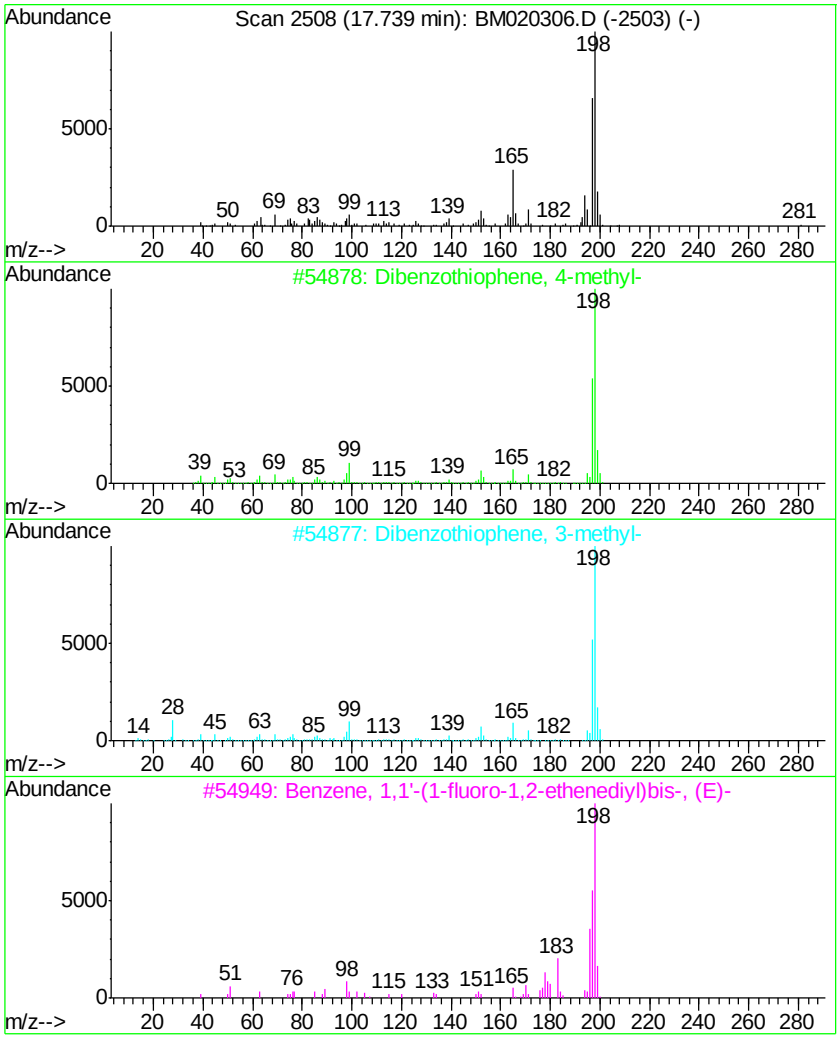
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

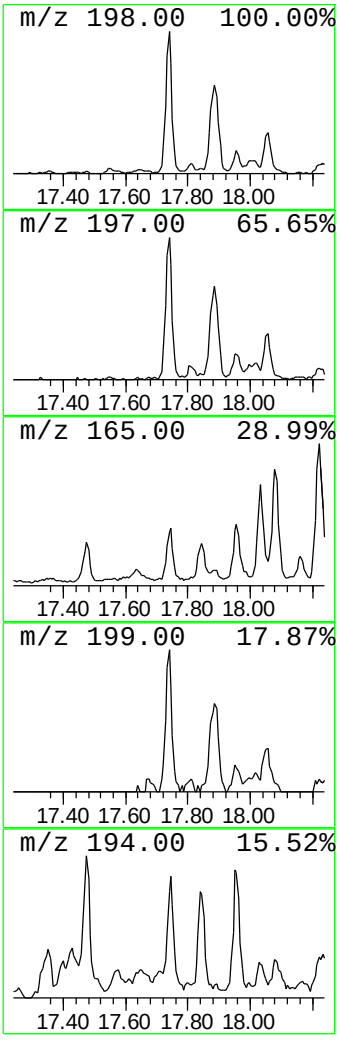
****

Peak Number 4 Dibenzothiophene, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.74	6.12 ng	259998	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	81
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
3	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64
4	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	64
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

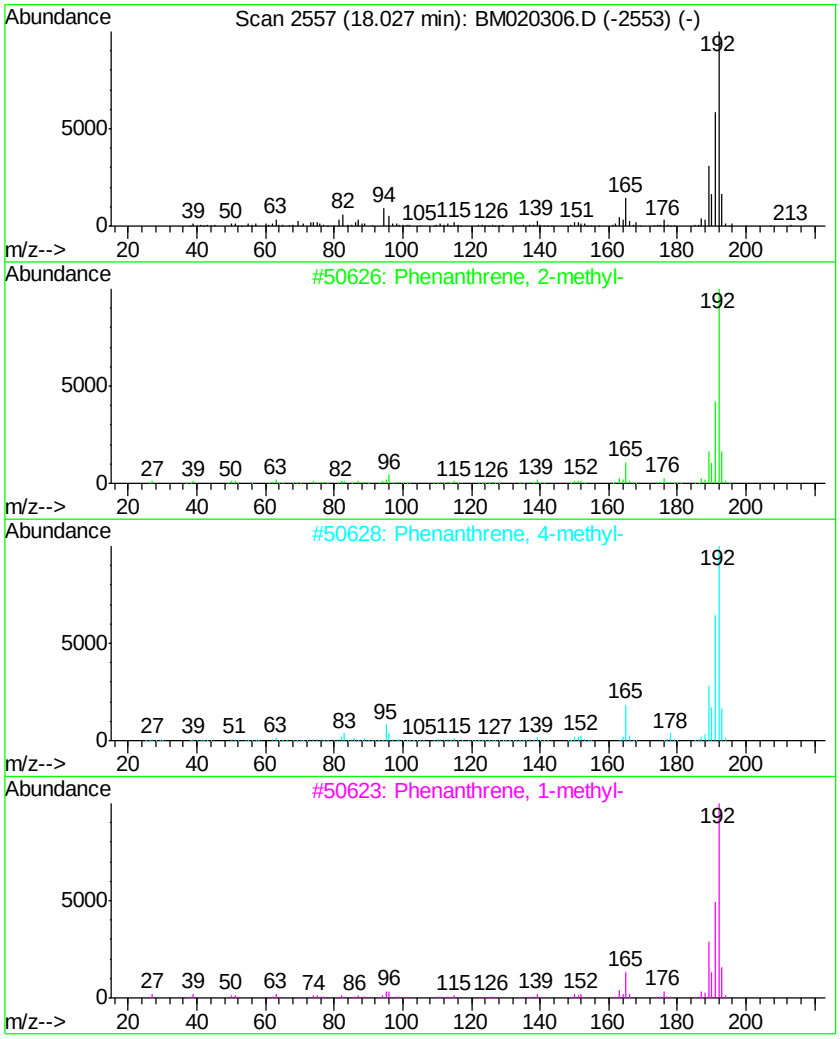
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

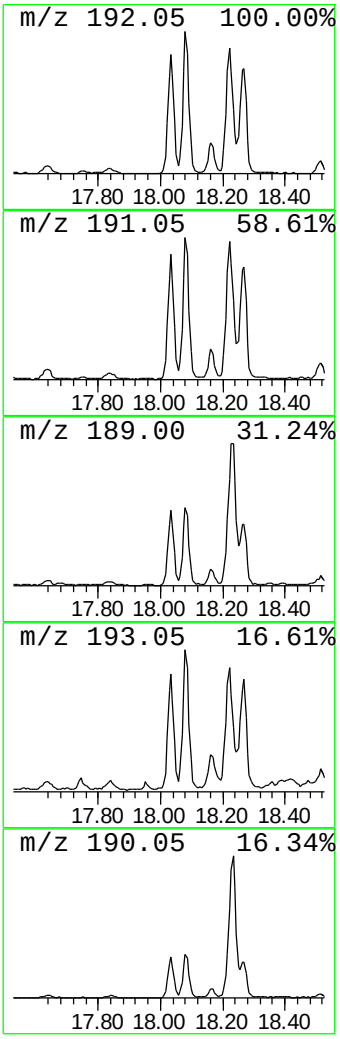
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	22.63 ng	961826	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

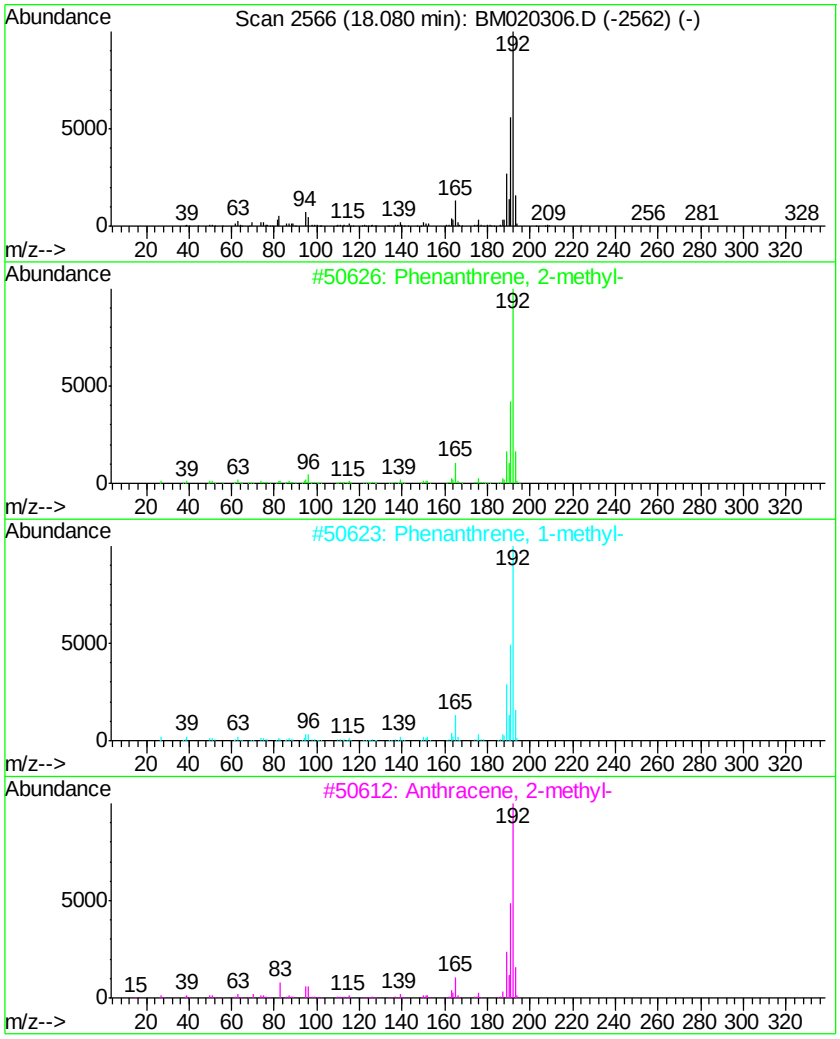
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

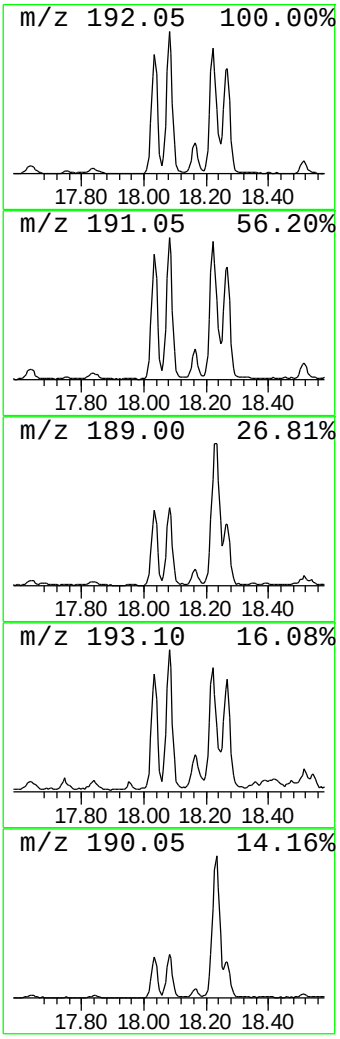
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	21.17 ng	899974	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Sample : K2766-18
Misc :
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ClientSampleId : P026-SS009-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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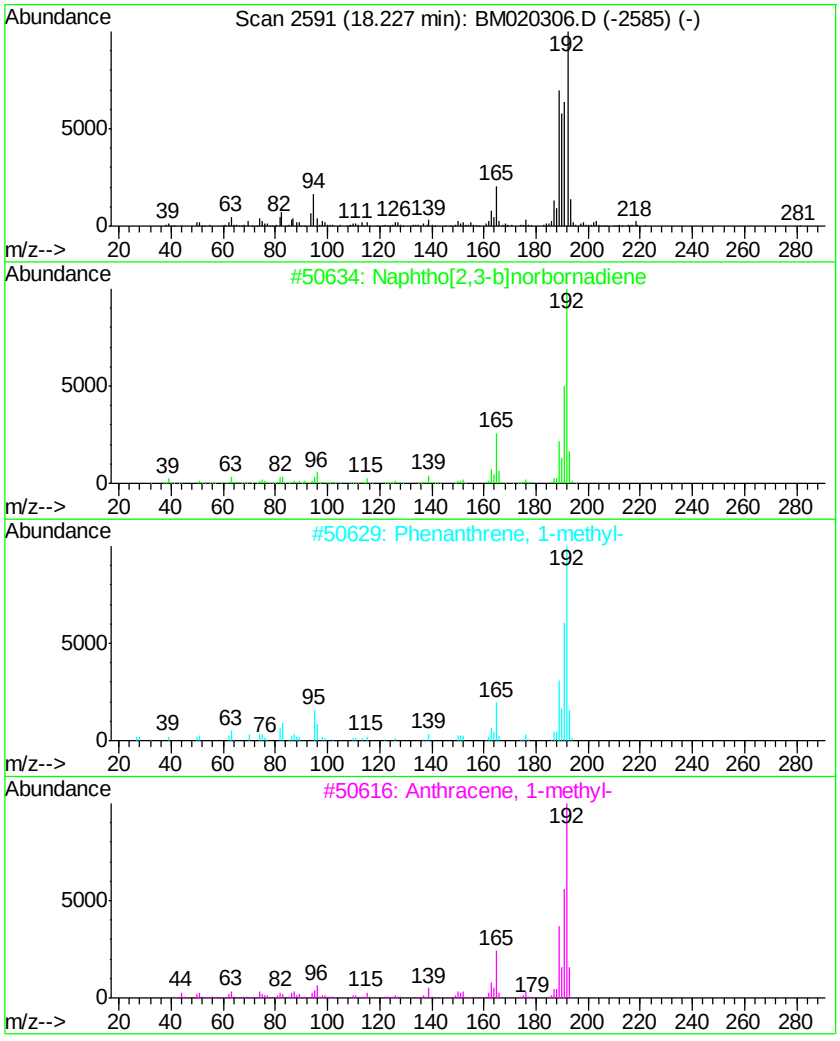
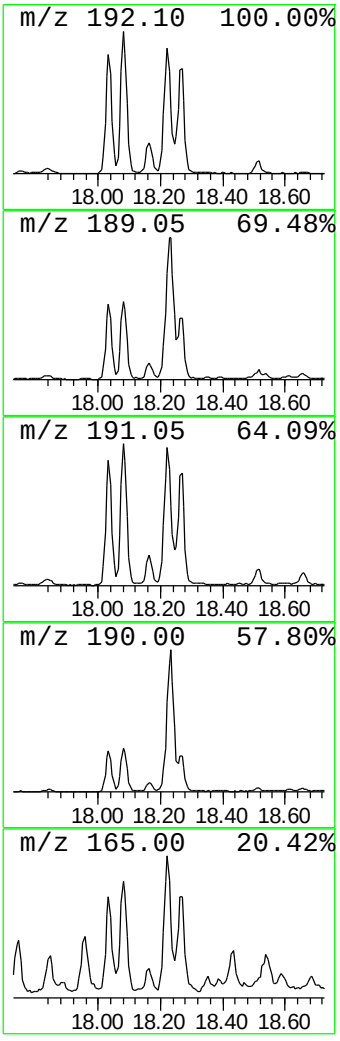
Peak Number 7 Naphtho[2,3-b]norbornadiene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	31.96 ng	1358670	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	60
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	55
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	55
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	55
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	55





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ClientSampleId : P026-SS009-0002-01

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

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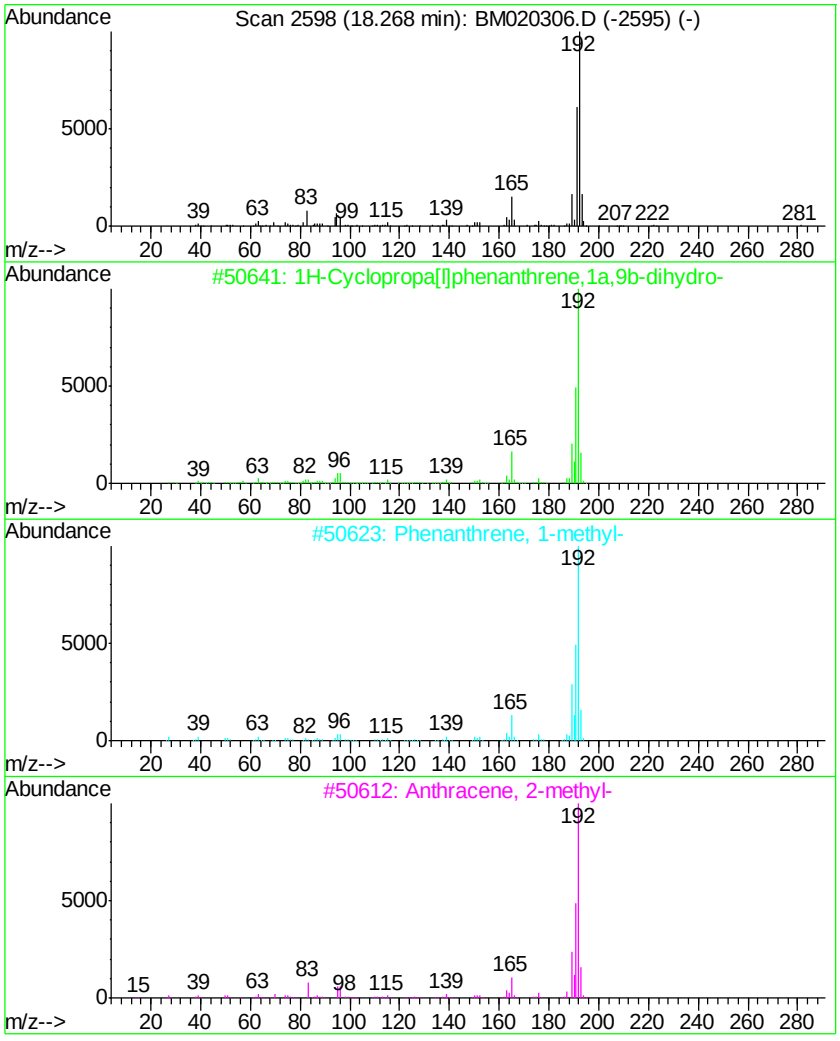
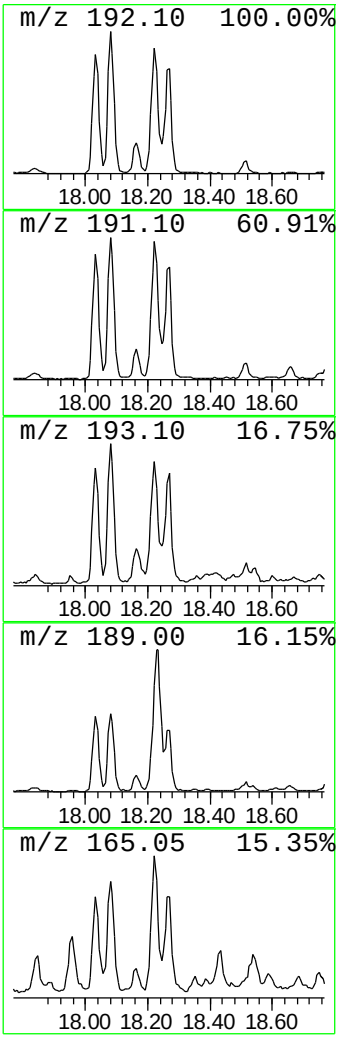
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.27	15.55 ng	660797	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90





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TIC Library : C:\DATABASE\NIST02.L
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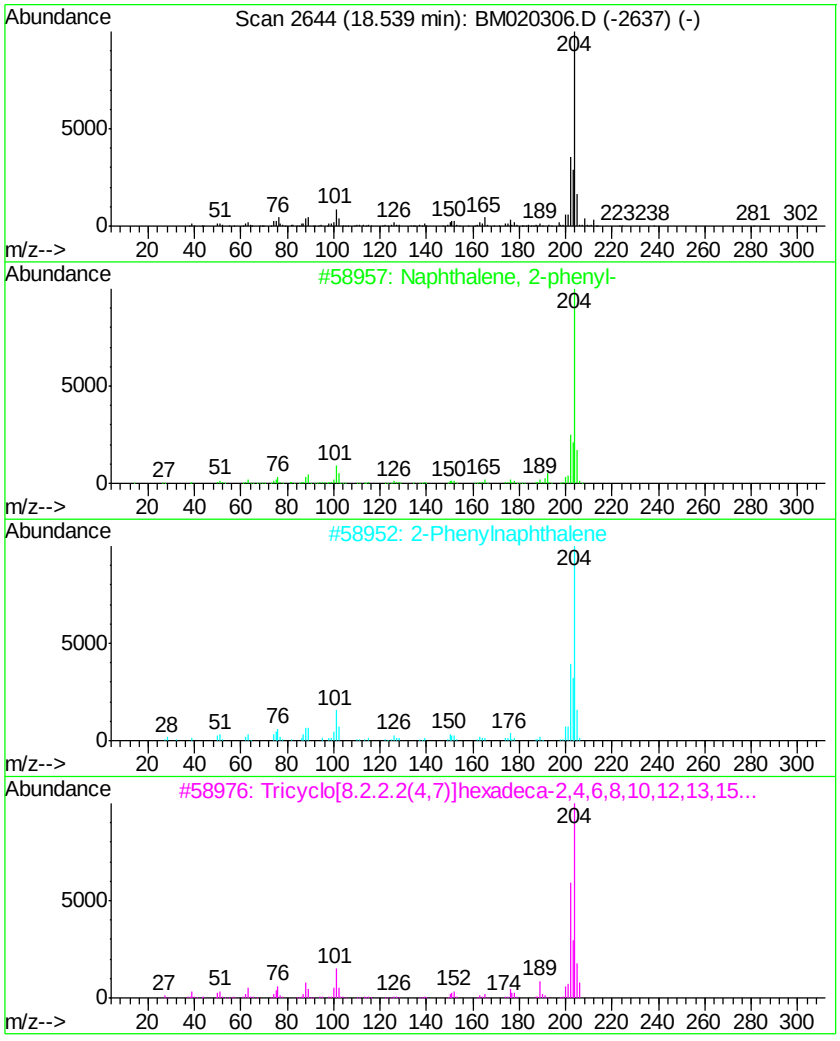
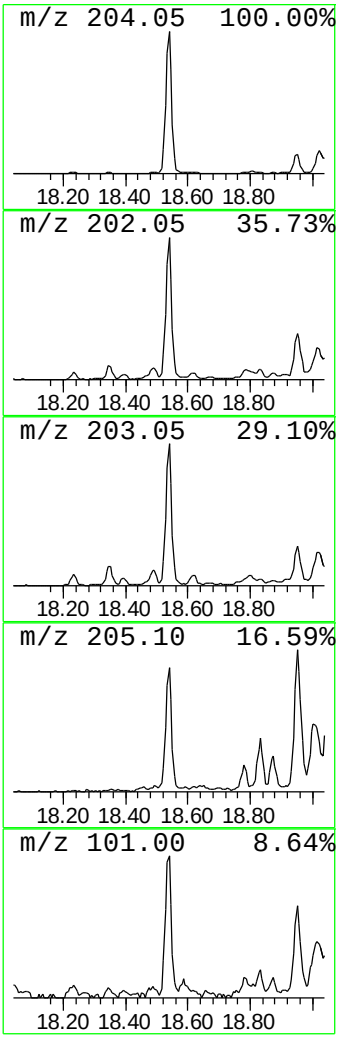
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.54	17.59 ng	747875	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53





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ClientSampleId : P026-SS009-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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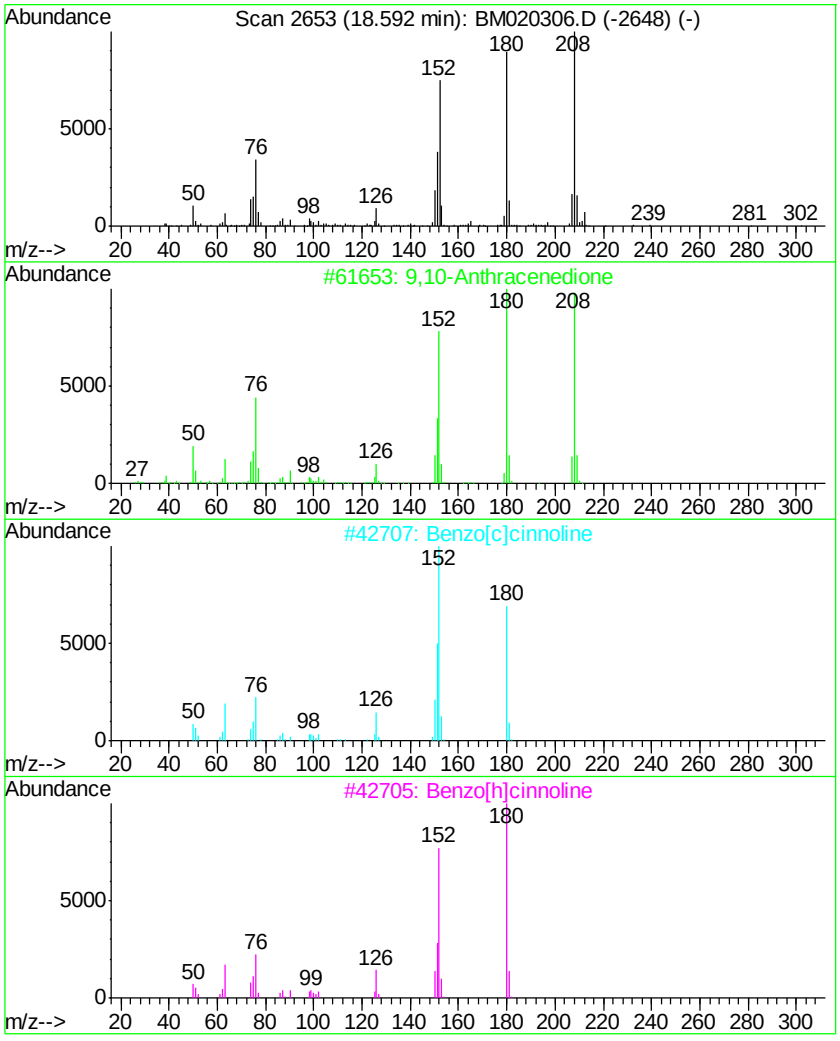
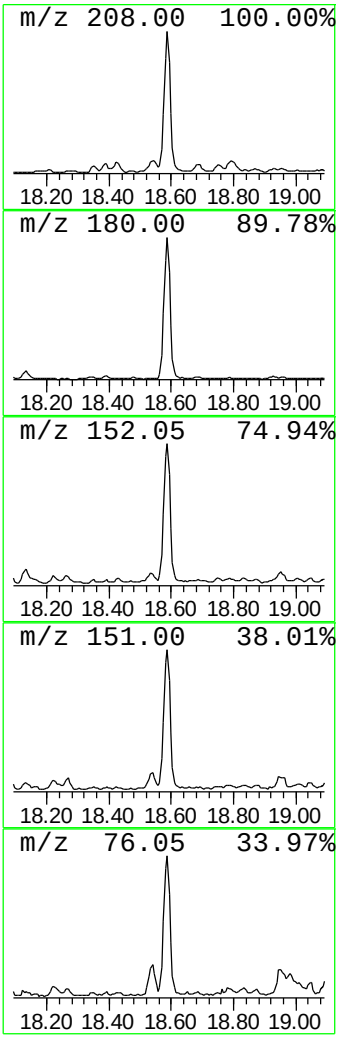
Peak Number 10 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	20.18 ng	857659	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	52





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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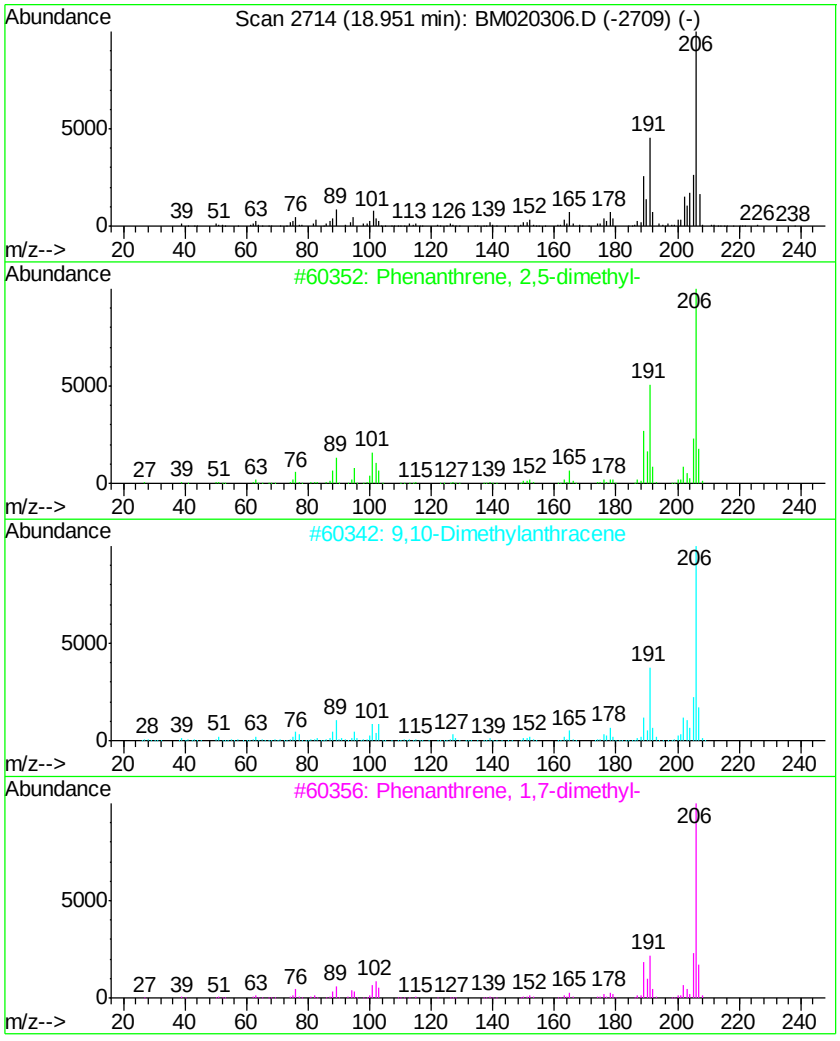
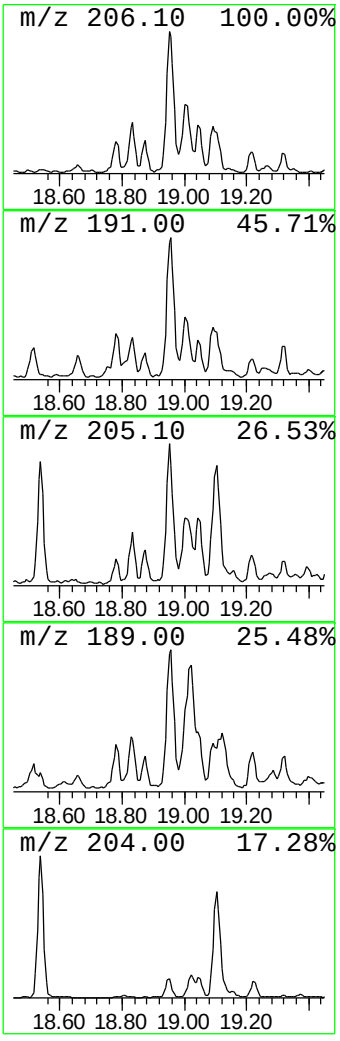
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	25.54 ng	1085640	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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

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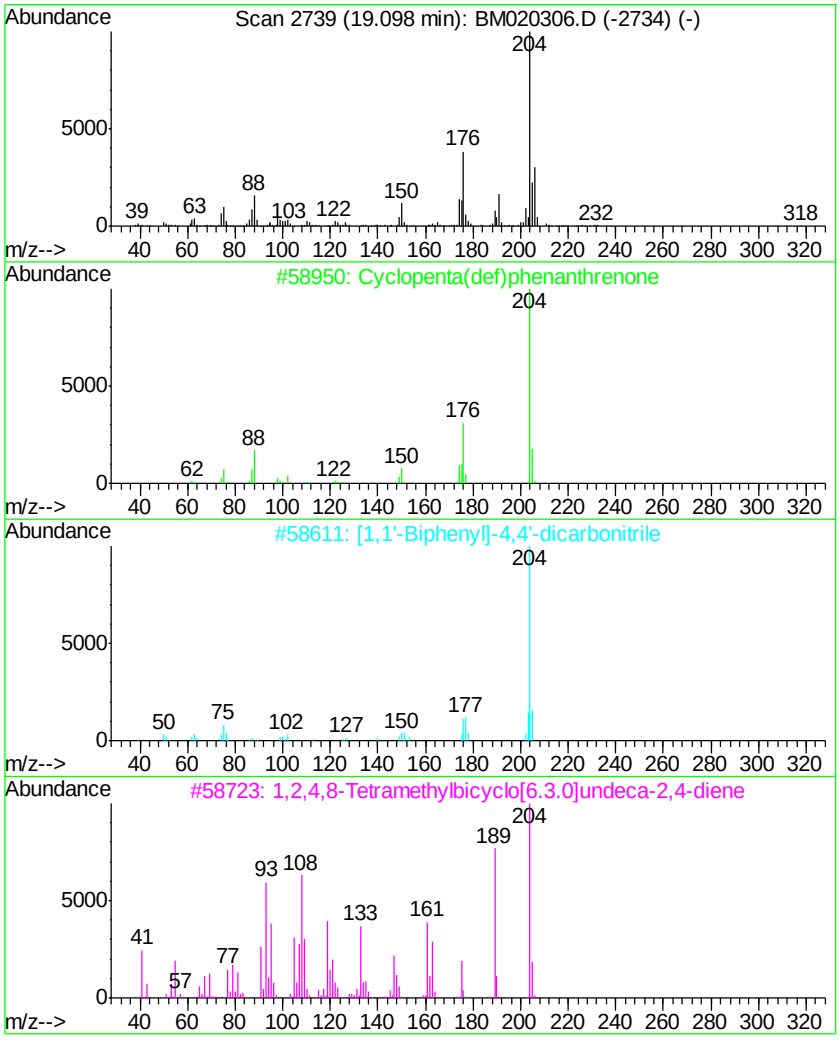
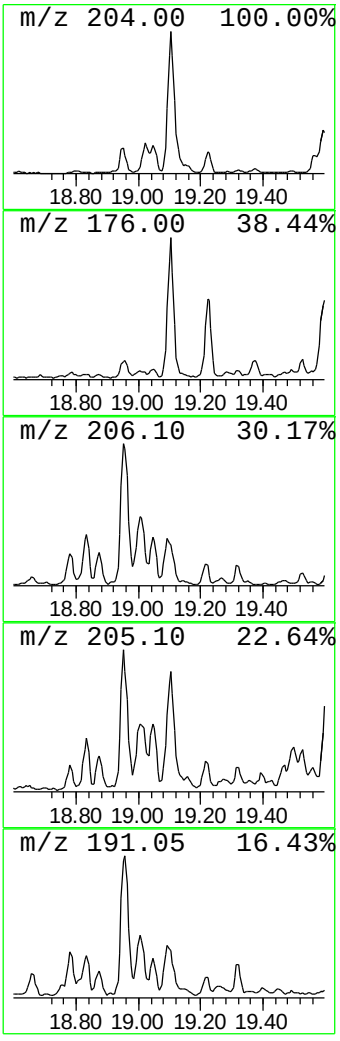
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	22.76 ng	967586	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
5	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	40





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Sample : K2766-18
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ClientSampleId : P026-SS009-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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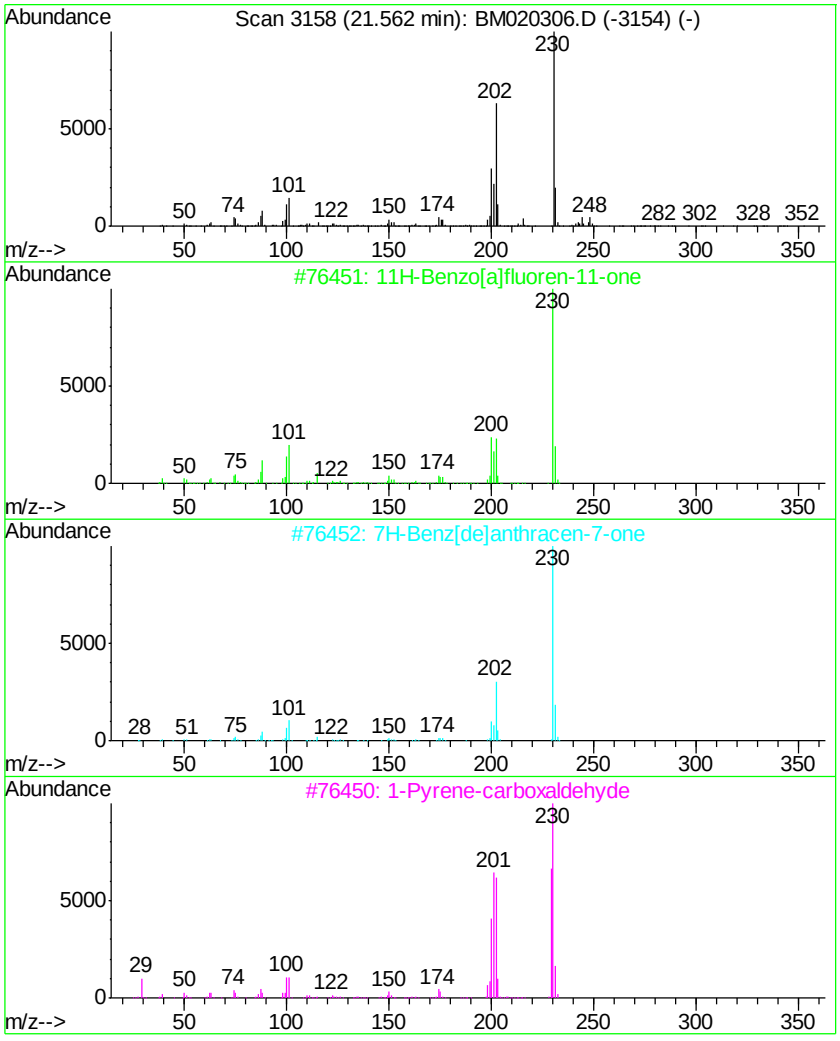
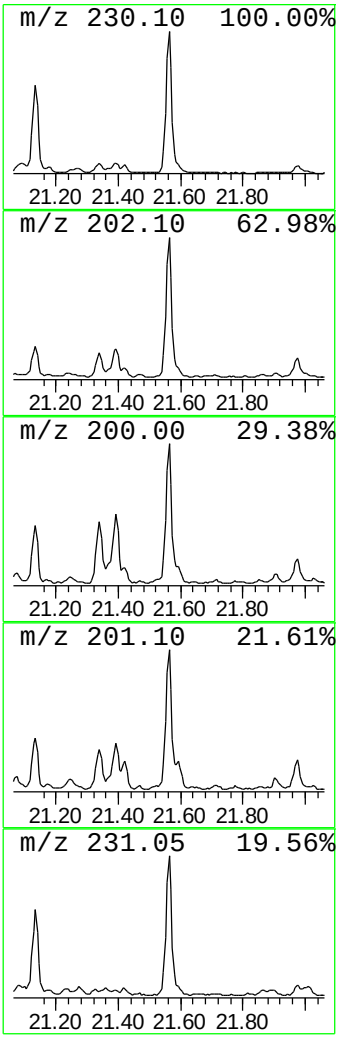
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.56	6.52 ng	1862190	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	95
3	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	89
4	Fluoranthene	202	C16H10	000206-44-0	78
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	53





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Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

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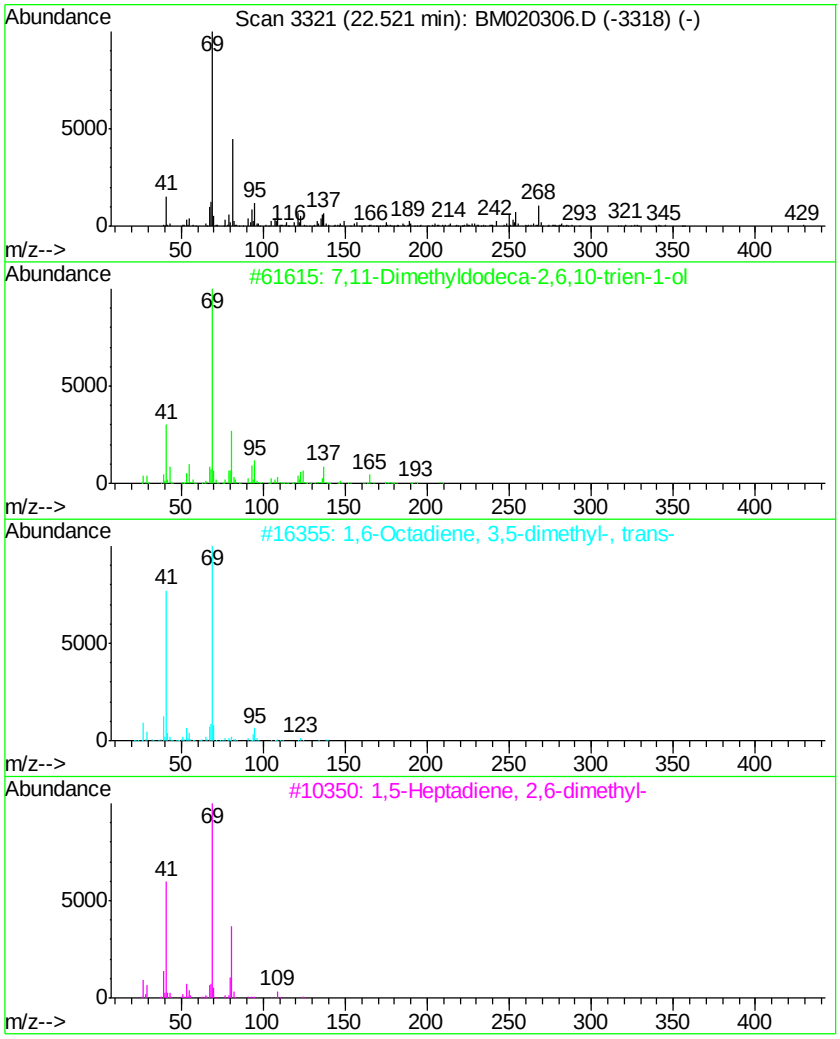
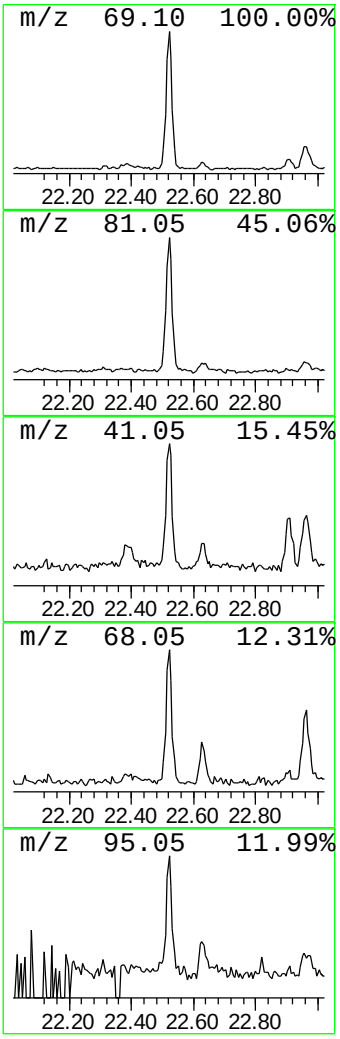
Peak Number 14 7,11-Dimethyldodeca-2,6,10-... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.52	6.16 ng	262697	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	53
2	1,6-Octadiene, 3,5-dimethyl-, tr...	138	C10H18	074630-87-8	53
3	1,5-Heptadiene, 2,6-dimethyl-	124	C9H16	006709-39-3	50
4	Trideca-1,3,7,11-tetraene-1,1-di...	268	C18H24N2	1000159-88-9	45
5	4-Methyl-1,5-Heptadiene	110	C8H14	000998-94-7	42





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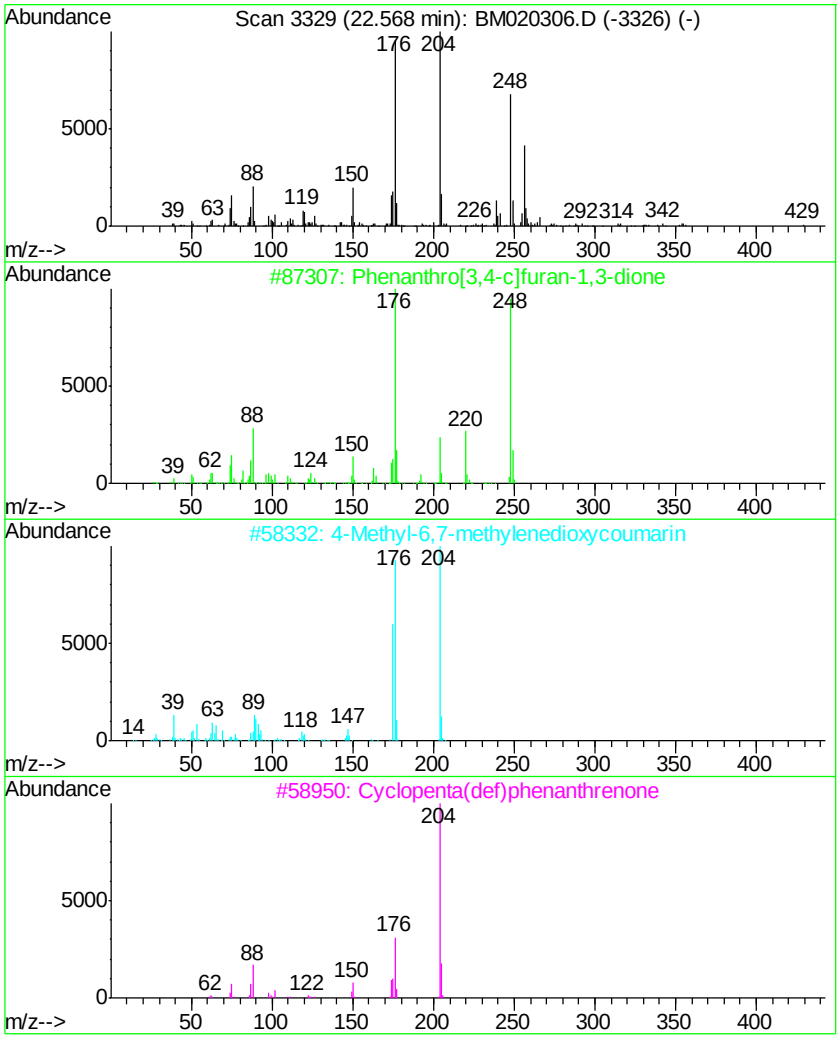
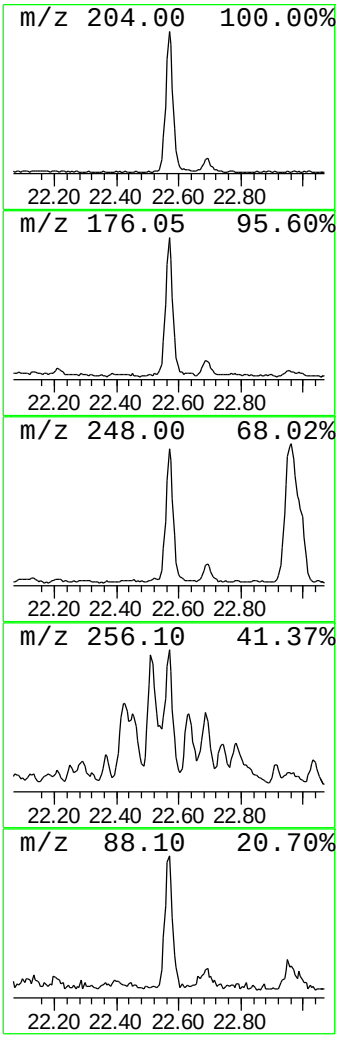
Peak Number 15 unknown22.57 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.57	12.48 ng	532515	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthro[3,4-c]furan-1,3-dione	248	C16H8O3	005723-54-6	43
2	4-Methyl-6,7-methylenedioxycoumarin	204	C11H8O4	015071-04-2	32
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	30
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	22
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	18





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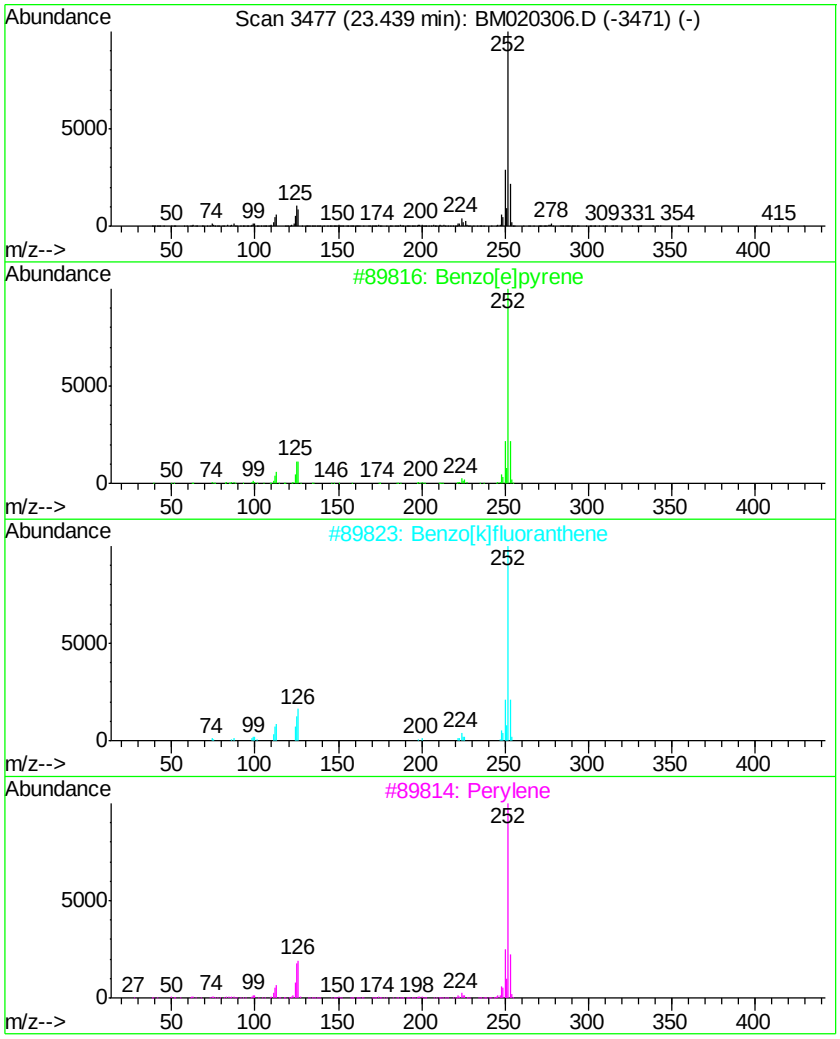
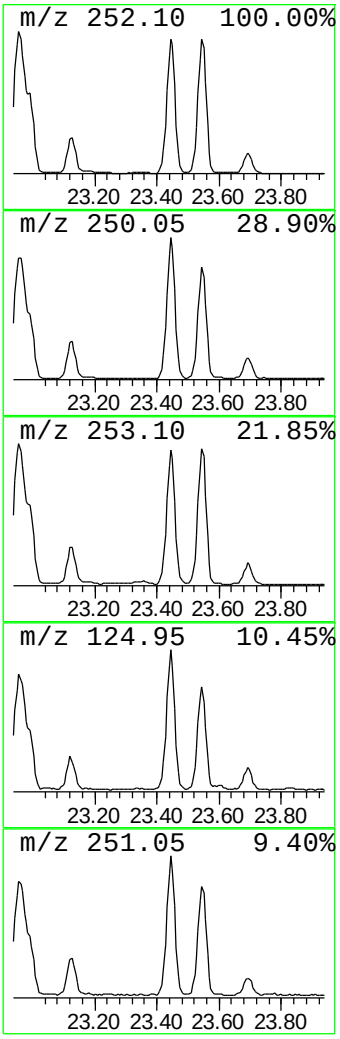
Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.44	70.72 ng	3017700	Perylene-d12	23.64

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	Perylene	252	C20H12	000198-55-0	94
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94





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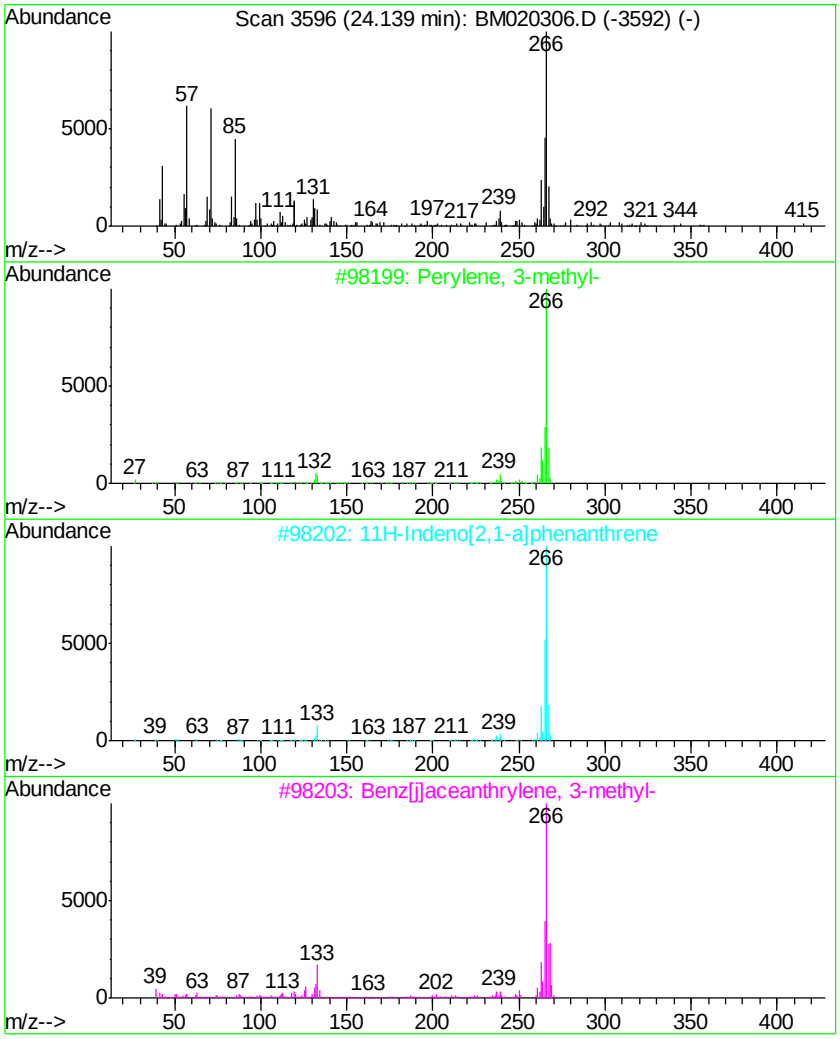
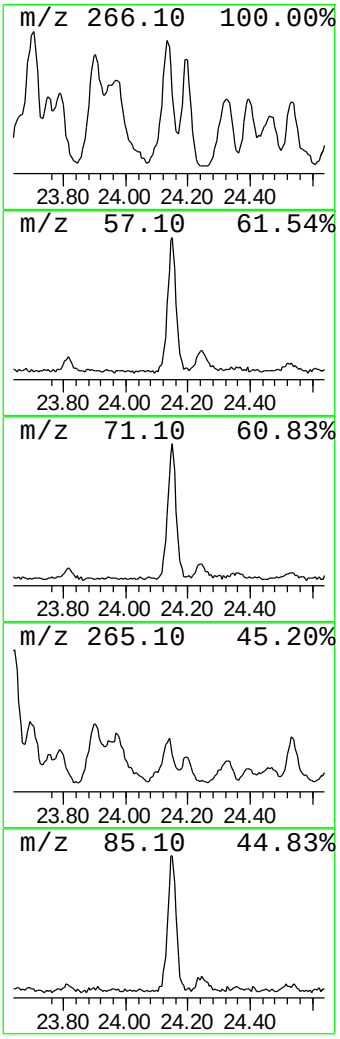
Peak Number 18 Perylene, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.14	7.72 ng	329385	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	83
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	50
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	46
4	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	43
5	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

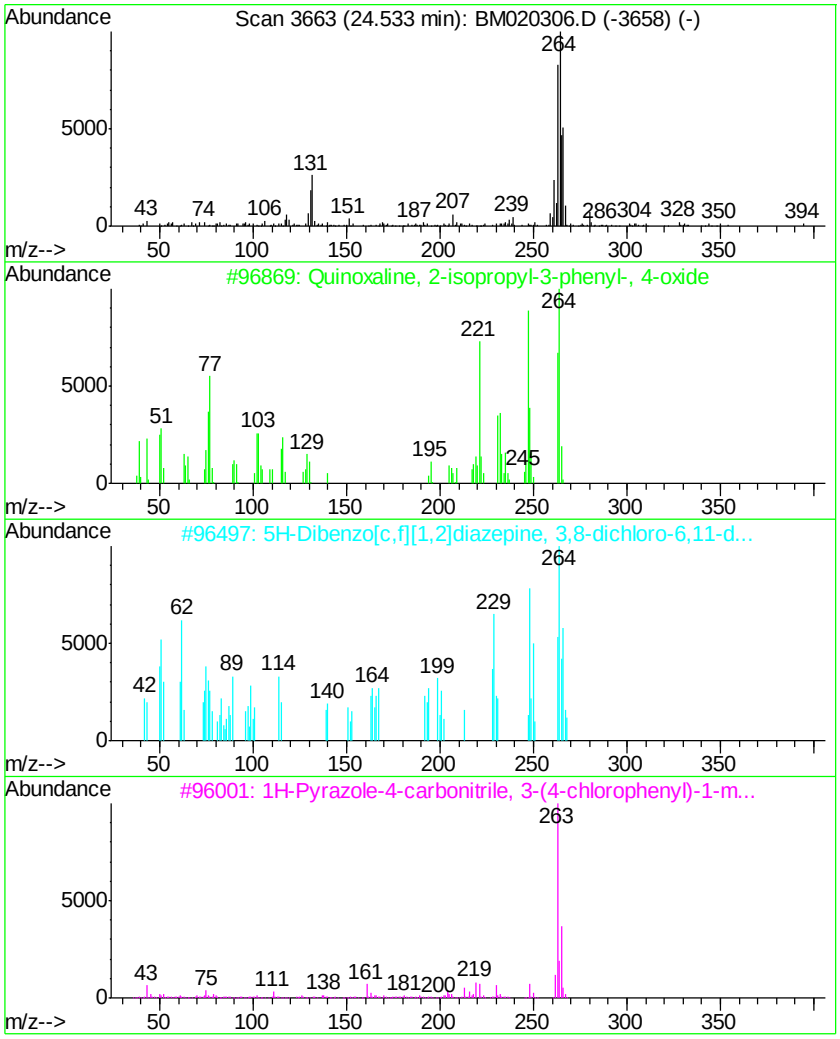
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

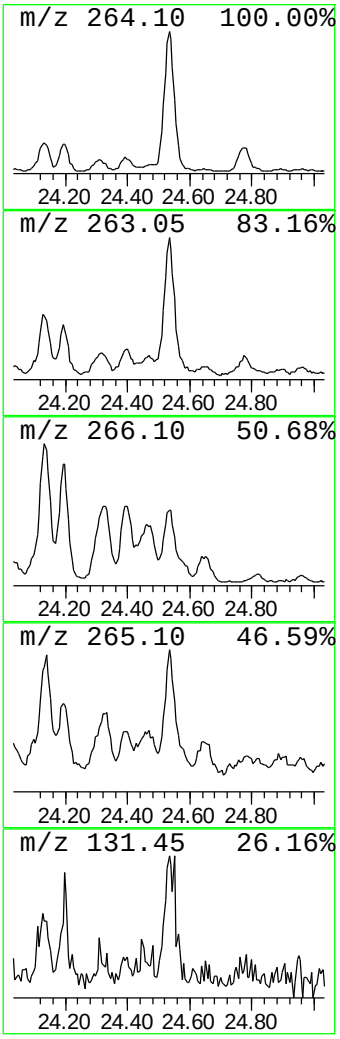
****

Peak Number 19 unknown24.53 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.53	13.26 ng	565698	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoxaline, 2-isopropyl-3-phenyl...	264	C17H16N2O	016007-79-7	43
2	5H-Dibenzo[c,f][1,2]diazepine, 3...	264	C13H10Cl2N2	000955-66-8	38
3	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
4	1,8-Dichlorophenazine 5-oxide	264	C12H6Cl2N2O	006479-80-7	27
5	3,6-Dichlorocatechol, cyclic phe...	264	C12H7BCl2O2	1000293-25-1	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

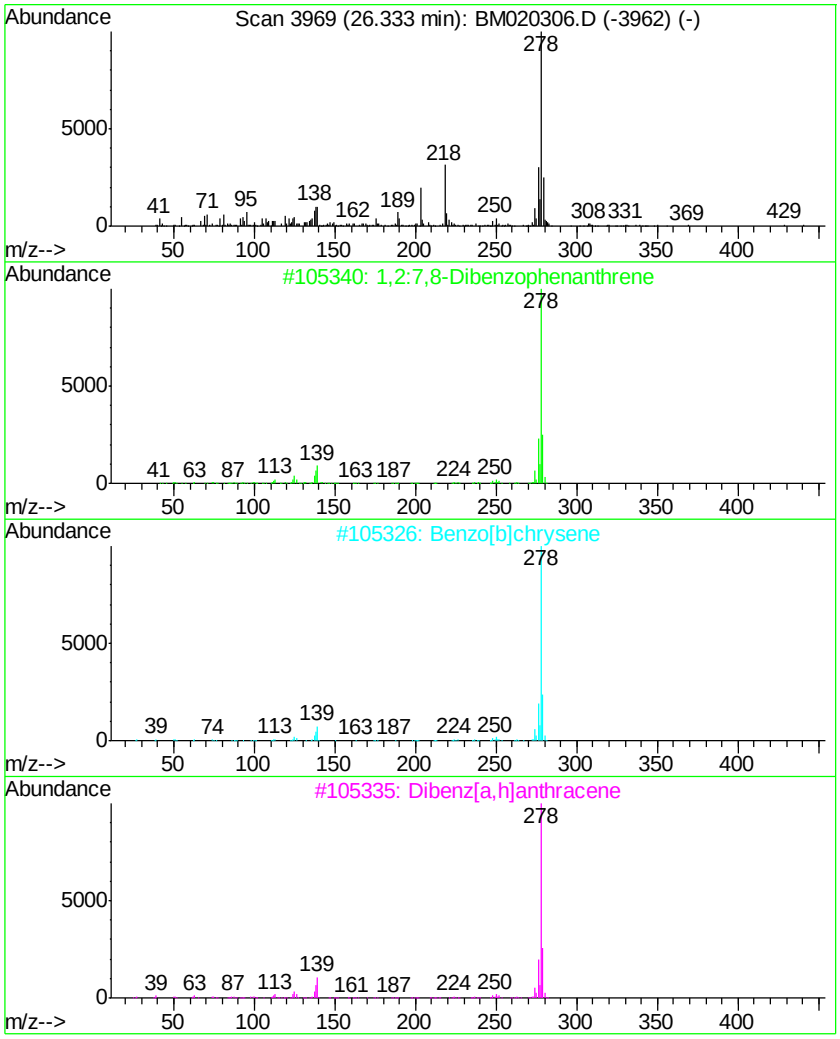
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

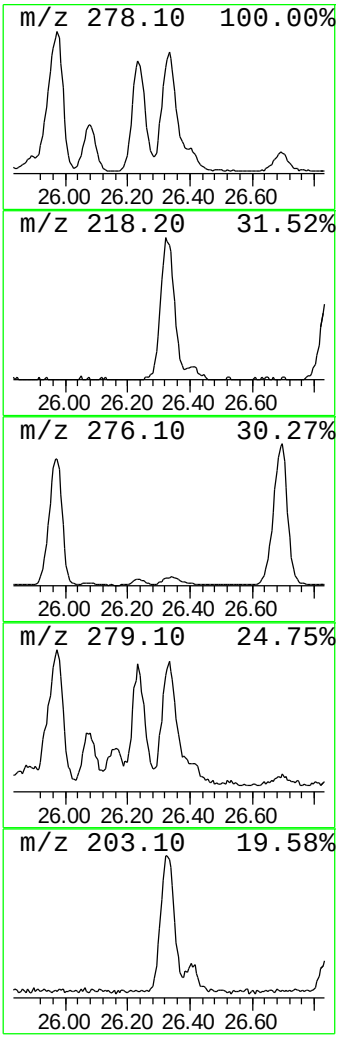
****

Peak Number 20 1,2:7,8-Dibenzophenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.33	16.18 ng	690586	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	96
2	Benzo[b]chrysene	278	C22H14	000214-17-5	83
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	83
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
5	Pentacene	278	C22H14	000135-48-8	78





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051219\
Data File : BM020306.D
Acq On : 12 May 2019 19:42
Operator : JU/SJ
Sample : K2766-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
unknown7.29	7.29	101.8	ng	1923960	1	7.76	377998	20.0
Naphthalene, 1-ph...	17.67	5.9	ng	252522	4	17.16	850140	20.0
Dibenzothiophene,...	17.74	6.1	ng	259998	4	17.16	850140	20.0
Phenanthrene, 2-m...	18.03	22.6	ng	961826	4	17.16	850140	20.0
Phenanthrene, 1-m...	18.08	21.2	ng	899974	4	17.16	850140	20.0
Naphtho[2,3-b]nor...	18.23	32.0	ng	1358670	4	17.16	850140	20.0
1H-Cyclopropa[l]p...	18.27	15.6	ng	660797	4	17.16	850140	20.0
Naphthalene, 2-ph...	18.54	17.6	ng	747875	4	17.16	850140	20.0
9,10-Anthracenedione	18.59	20.2	ng	857659	4	17.16	850140	20.0
Phenanthrene, 2,5...	18.95	25.5	ng	1085640	4	17.16	850140	20.0
Cyclopenta(def)ph...	19.10	22.8	ng	967586	4	17.16	850140	20.0
11H-Benzo[a]fluor...	21.56	6.5	ng	1862190	5	21.36	5708630	20.0
7,11-Dimethyldode...	22.52	6.2	ng	262697	6	23.64	853474	20.0
unknown22.57	22.57	12.5	ng	532515	6	23.64	853474	20.0
Benzo[e]pyrene	23.44	70.7	ng	3017700	6	23.64	853474	20.0
Perylene, 3-methyl-	24.14	7.7	ng	329385	6	23.64	853474	20.0
unknown24.53	24.53	13.3	ng	565698	6	23.64	853474	20.0
1,2:7,8-Dibenzoph...	26.33	16.2	ng	690586	6	23.64	853474	20.0