LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

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-BM121518.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	4.681	301	305	311	rVB	40818	57957	1.84%	0.127%
2	5.122	374	380	393	rBV	1011151	1453956	46.07%	3.186%
3	6.687	640	646	664	rBV	911212	1580144	50.07%	3.463%
4	7.022	697	703	721	rBV	994943	1619941	51.33%	3.550%
5	7.481	775	781	790	rBV	482682	774836	24.55%	1.698%
6	7.798	828	835	845	rBV	766020	1248073	39.55%	2.735%
7	8.640	970	978	991	rBV	473708	894966	28.36%	1.961%
8	10.251	1244	1252	1257	rBV	538194	944160	29.92%	2.069%
9	10.298	1257	1260	1269	rVB	132137	225884	7.16%	0.495%
10	11.928	1532	1537	1546	rBV	47971	86517	2.74%	0.190%
11	12.151	1569	1575	1583	rVB	40443	70284	2.23%	0.154%
12	12.745	1670	1676	1689	rBV	1261800	1902784	60.29%	4.170%
13	13.457	1791	1797	1803	rBV3	26775	49644	1.57%	0.109%
14	13.616	1818	1824	1833	rBV	74446	119529	3.79%	0.262%
15	13.698	1833	1838	1848	rVB3	17312	32152	1.02%	0.070%
16	13.863	1861	1866	1871	rVB2	22524	35046	1.11%	0.077%
17	14.139	1907	1913	1920	rBV2	698334	1117390	35.41%	2.449%
18	14.204	1920	1924	1937	rVB	138274	210807	6.68%	0.462%
19	14.551	1978	1983	1989	rBV2	98281	145470	4.61%	0.319%
20	15.204	2087	2094	2105	rVB	153793	228791	7.25%	0.501%
21	15.504	2140	2145	2152	rVB	41533	63821	2.02%	0.140%
22	15.651	2164	2170	2179	rBV	986425	1439525	45.61%	3.155%
23	15.898	2204	2212	2217	rBV9	17346	41350	1.31%	0.091%
24	16.215	2255	2266	2270	rBV4	33505	88482	2.80%	0.194%
25	16.568	2321	2326	2333	rVB	75534	120594	3.82%	0.264%
26	16.639	2333	2338	2347	rVV6	25232	76281	2.42%	0.167%
27	16.727	2348	2353	2360	rVB	87019	134411	4.26%	0.295%
28	16.904	2375	2383	2387	rBV2	860582	1289093	40.85%	2.825%
29	16.951	2387	2391	2397	rVV	1699707	2300960	72.91%	5.042%
30	17.039	2399	2406	2412	rVV	290254	448855	14.22%	0.984%
31	17.110	2412	2418	2423	rVV5	21672	46401	1.47%	0.102%
32	17.327	2447	2455	2467	rBV2	129247	269009	8.52%	0.590%
33	17.427	2467	2472	2478	rVV3	34367	69155	2.19%	0.152%
34	17.492	2479	2483	2493	rVB4	35275	73883	2.34%	0.162%

LSC Area Percent Report

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Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

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-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.627	2503	2506	2512	rVB2	21697	38154	1.21%	0.084%
36	17.715	2512	2521	2526	rBV9	14772	31942	1.01%	0.070%
37	17.780	2526	2532	2536	rBV	199596	304986	9.66%	0.668%
38	17.827	2536	2540	2548	rVV2	308088	568091	18.00%	1.245%
39	17.915	2548	2555	2560	rVV	77644	133549	4.23%	0.293%
40	17.974	2560	2565	2569	rVV2	259763	454903	14.41%	0.997%
41	18.015	2569	2572	2579	rVB	134735	191044	6.05%	0.419%
42	18.104	2582	2587	2591	rBV6	35270	54190	1.72%	0.119%
43	18.292	2615	2619	2624	rVV	127123	185516	5.88%	0.407%
44	18.345	2624	2628	2635	rVB	144425	210298	6.66%	0.461%
45	18.539	2658	2661	2666	rBV4	37205	57935	1.84%	0.127%
46	18.592	2666	2670	2673	rVB2	41711	48703	1.54%	0.107%
47	18.633	2673	2677	2682	rVB3	38388	55470	1.76%	0.122%
48	18.715	2682	2691	2695	rBV2	100821	195119	6.18%	0.428%
49	18.774	2695	2701	2704	rVV6	61371	143154	4.54%	0.314%
50	18.804	2704	2706	2710	rVB	37560	38557	1.22%	0.084%
51	18.862	2711	2716	2722	rVB2	100969	170108	5.39%	0.373%
52	18.980	2730	2736	2743	rBV	2265701	2970679	94.13%	6.510%
53	19.051	2745	2748	2751	rVV2	33459	41991	1.33%	0.092%
54	19.080	2751	2753	2756	rVV2	43106	55313	1.75%	0.121%
55	19.115	2756	2759	2767	rVB4	63903	103609	3.28%	0.227%
56	19.221	2769	2777	2782	rVV4	60294	132401	4.20%	0.290%
57	19.345	2788	2798	2807	rBV	1778803	2959853	93.78%	6.486%
58	19.421	2808	2811	2816	rVB2	94010	139130	4.41%	0.305%
59	19.562	2826	2835	2839	rBV	1921516	2556513	81.00%	5.602%
60	19.598	2839	2841	2846	rVB	96835	127076	4.03%	0.278%
61	19.680	2849	2855	2862	rBV2	123529	293592	9.30%	0.643%
62	19.815	2873	2878	2879	rBV3	116585	158567	5.02%	0.347%
63	19.851	2881	2884	2889	rVB	217844	295815	9.37%	0.648%
64	19.951	2898	2901	2905	rBV	138157	166675	5.28%	0.365%
65	20.009	2905	2911	2915	rBV2	180368	318125	10.08%	0.697%
66	20.045	2915	2917	2922	rVB4	54013	76967	2.44%	0.169%
67	20.151	2931	2935	2938	rBV	97090	125675	3.98%	0.275%
68	20.198	2939	2943	2948	rVV	107860	165424	5.24%	0.363%
69	20.609	3009	3013	3019	rBV	203233	274772	8.71%	0.602%
70	20.768	3037	3040	3044	rBV2	155124	211421	6.70%	0.463%
71	20.809	3044	3047	3050	rVV	153837	177564	5.63%	0.389%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.850	3050	3054	3060	rVV3	214483	372766	11.81%	0.817%
73	20.909	3061	3064	3074	rVB	224308	316566	10.03%	0.694%
74	21.127	3094	3101	3105	rBV2	1544754	3156013	100.00%	6.916%
75	21.162	3105	3107	3118	rVB	938730	1206661	38.23%	2.644%
76	21.280	3124	3127	3132	rBV2	171405	223585	7.08%	0.490%
77	21.668	3191	3193	3197	rVB	178090	210380	6.67%	0.461%
78	22.650	3354	3360	3364	rBV	879699	1916156	60.71%	4.199%
79	23.103	3433	3437	3444	rVB	487242	805095	25.51%	1.764%
80	23.192	3447	3452	3458	rVB	759388	1392560	44.12%	3.052%
81	23.286	3463	3468	3473	rBV	831513	1383011	43.82%	3.031%
82	25.415	3824	3830	3841	rVB2	422679	1157550	36.68%	2.537%

Sum of corrected areas: 45633375

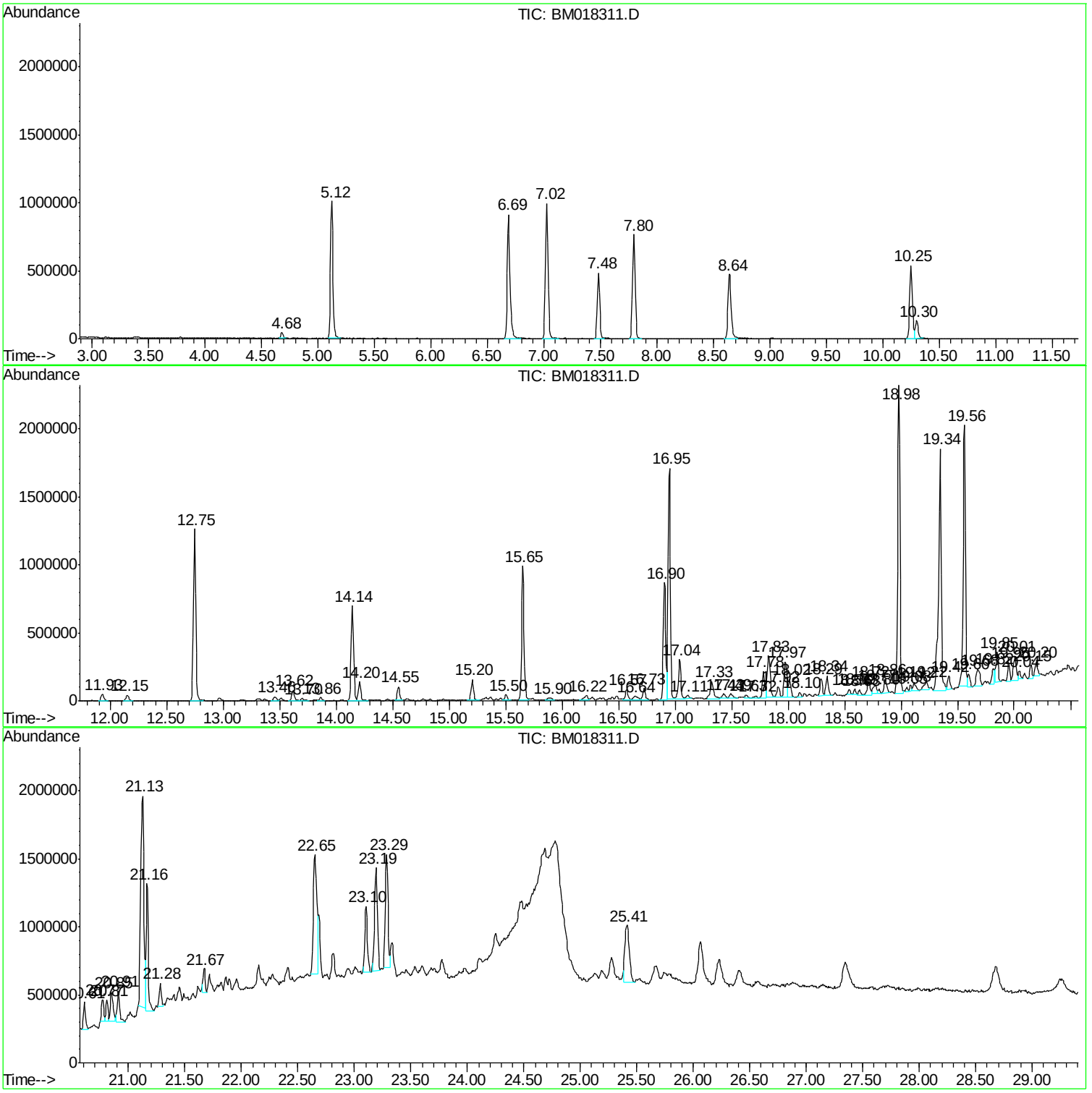
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.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\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

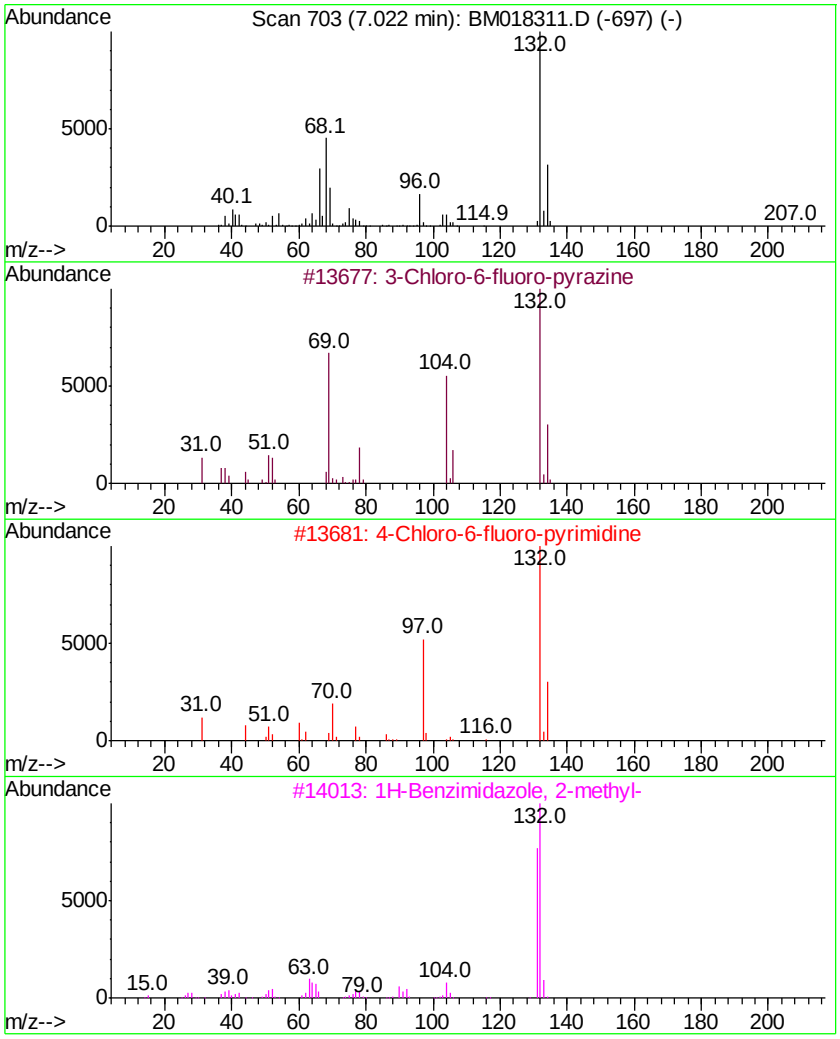
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

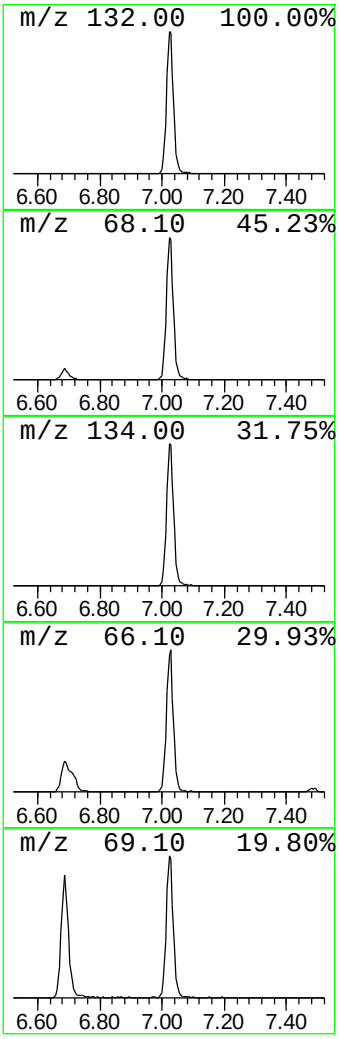
****

Peak Number 1 unknown7.02 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.02	41.81 ng	1619940	1,4-Dichlorobenzene-d4	7.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	10





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
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Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

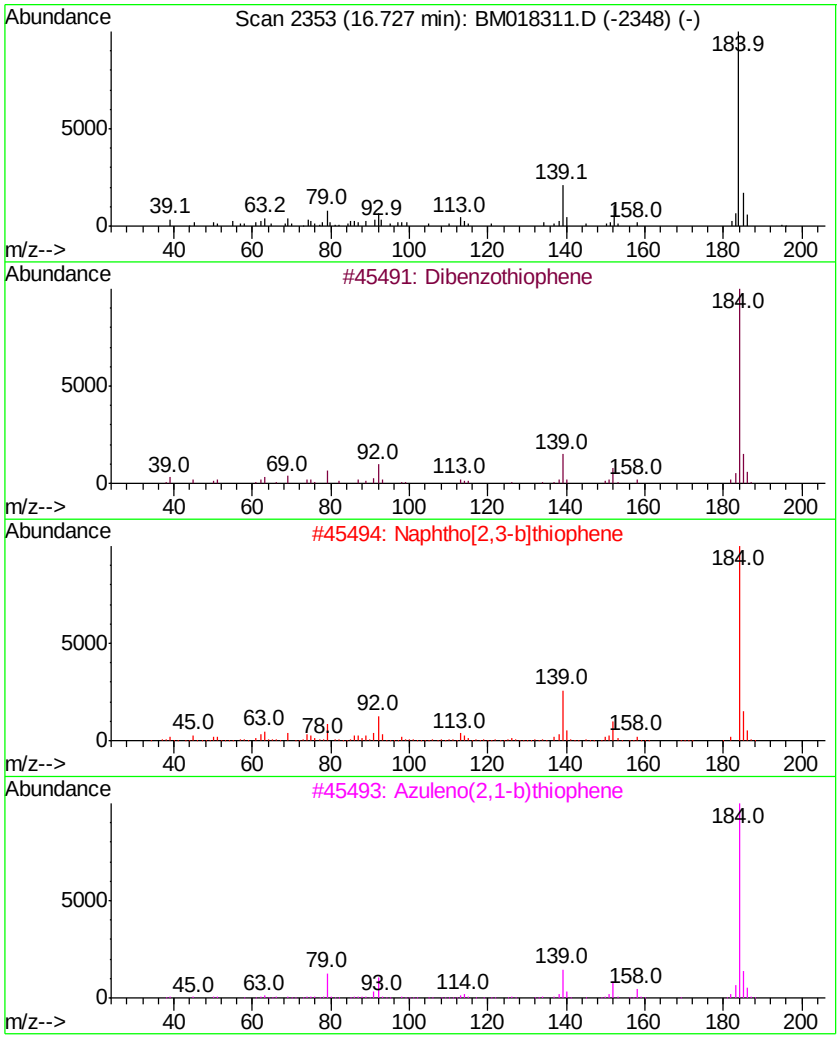
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

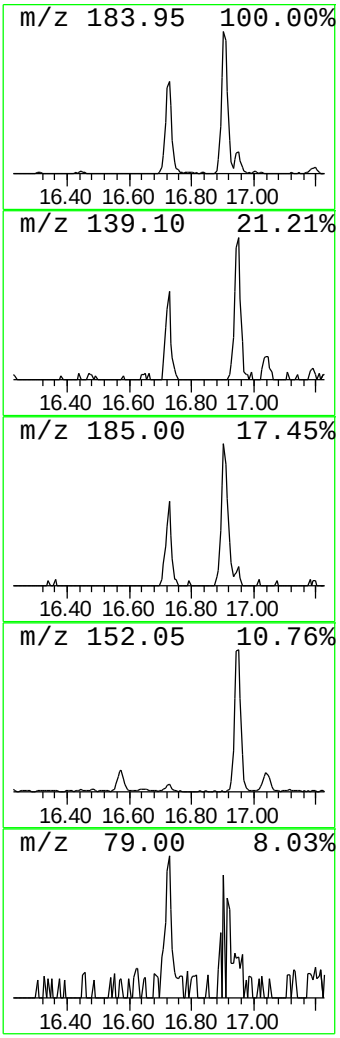
****

Peak Number 3 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	2.09 ng	134411	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	59
5	2,5-Cyclohexadiene-1,4-dione, 2,...	184	C8H8O5	000085-23-4	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

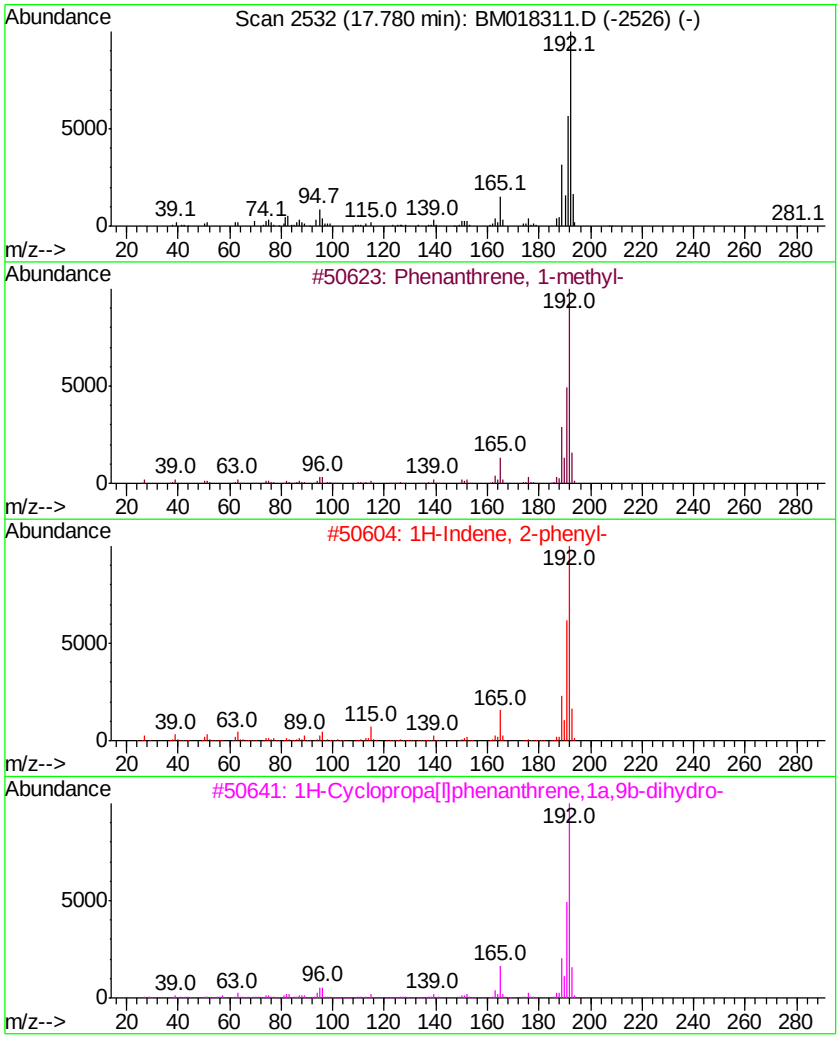
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

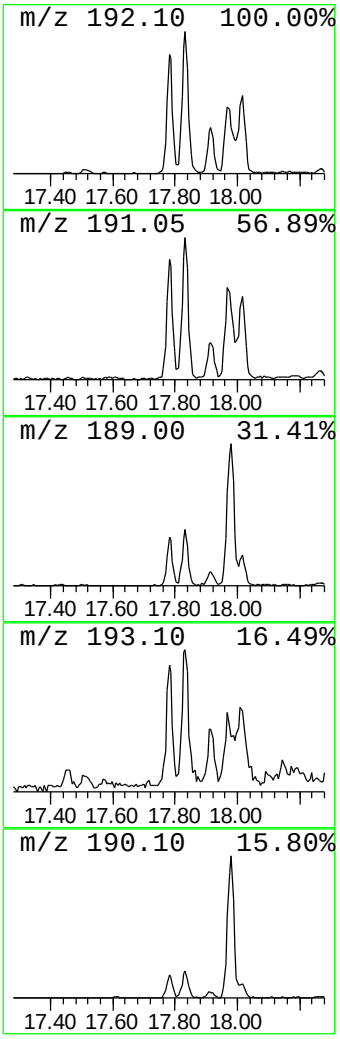
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	4.73 ng	304986	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
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Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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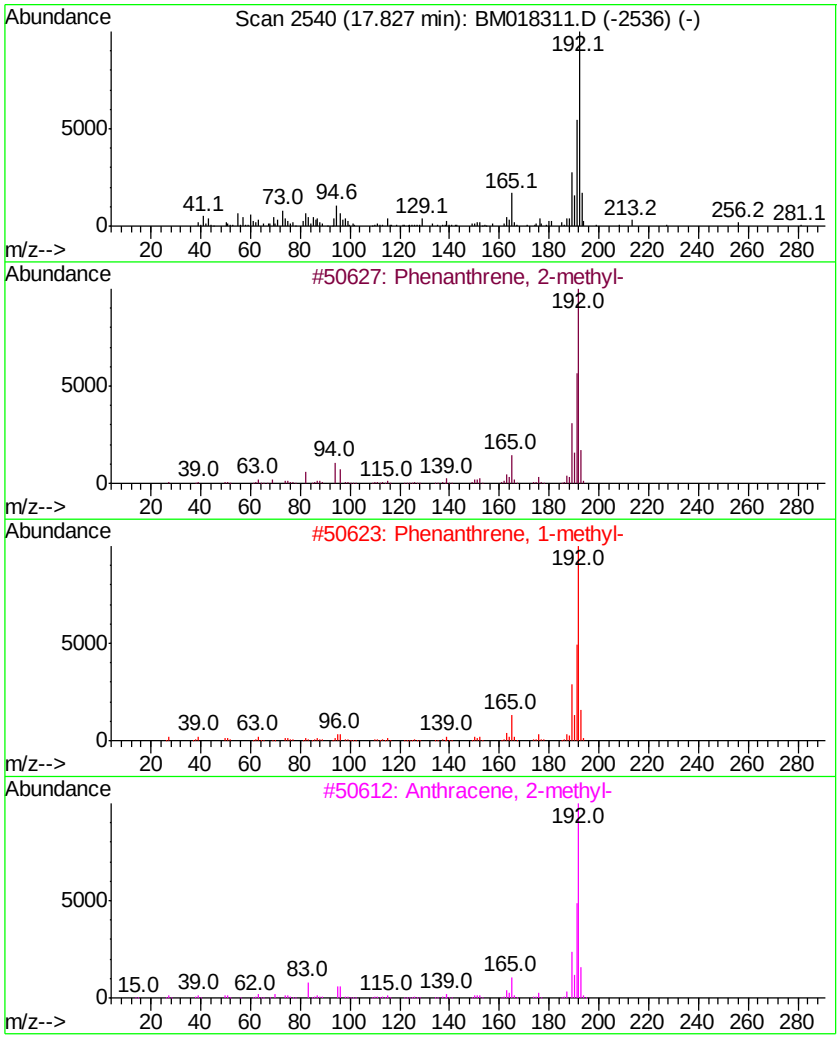
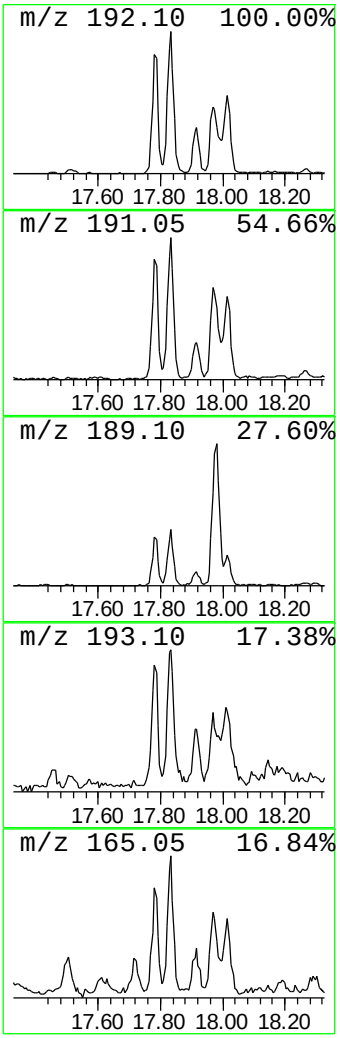
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	8.81 ng	568091	Phenanthrene-d10	16.90

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	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

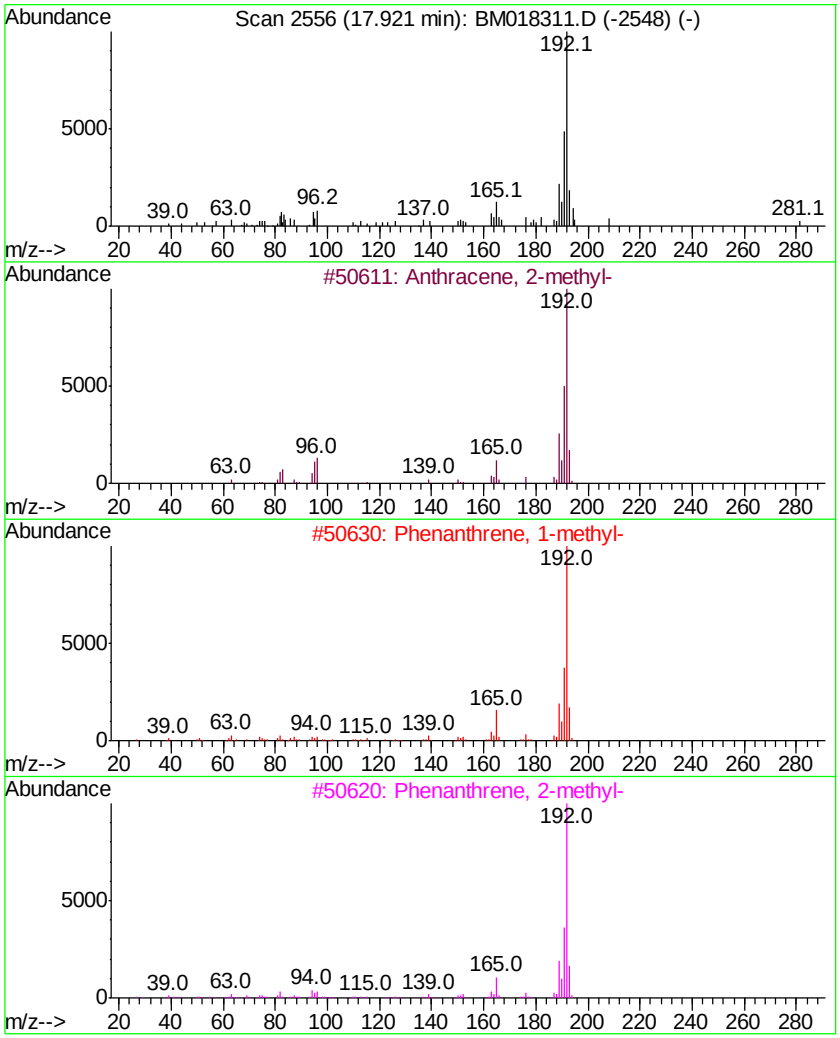
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

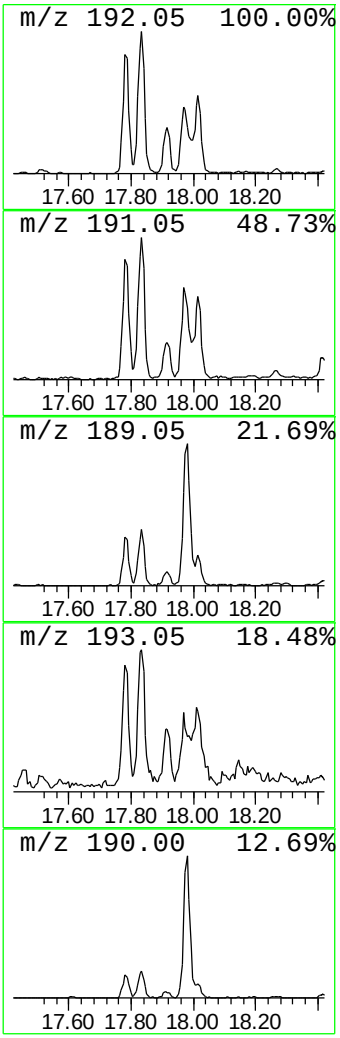
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.92	2.07 ng	133549	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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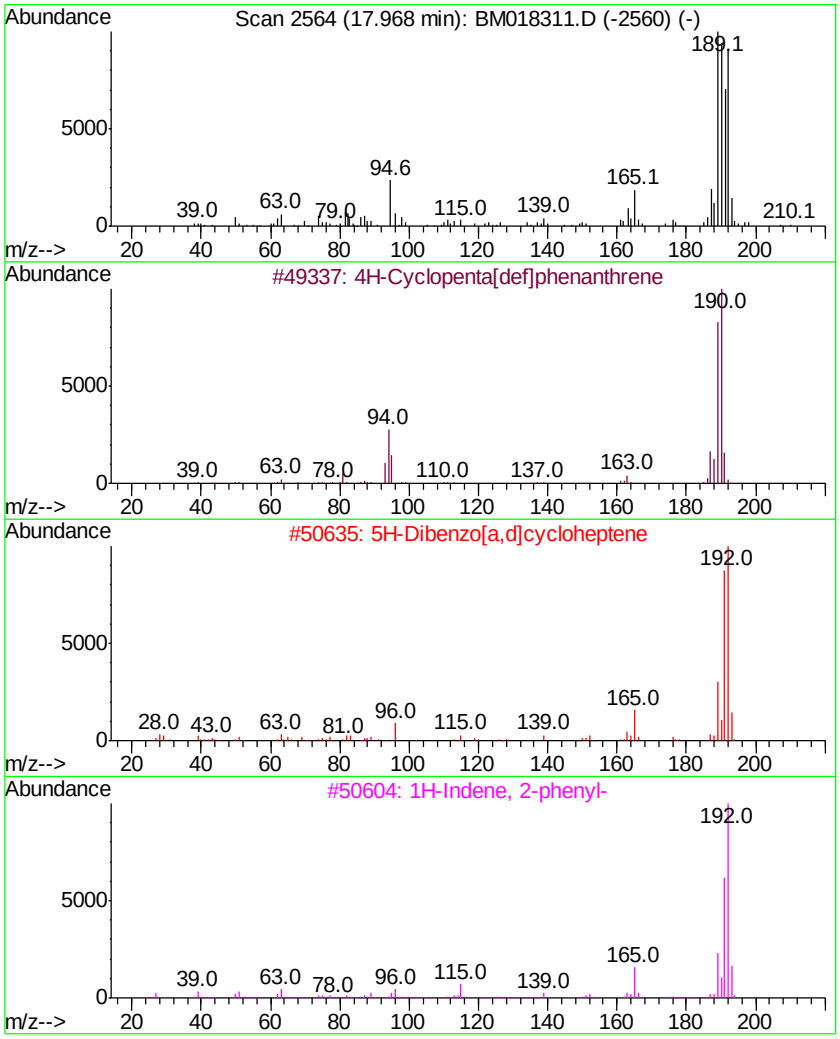
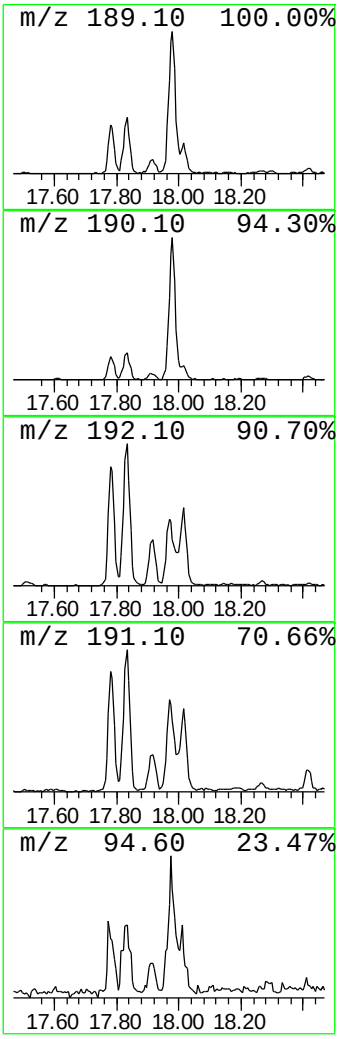
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	7.06 ng	454903	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	20
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	18
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	14
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	14





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121918\
Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

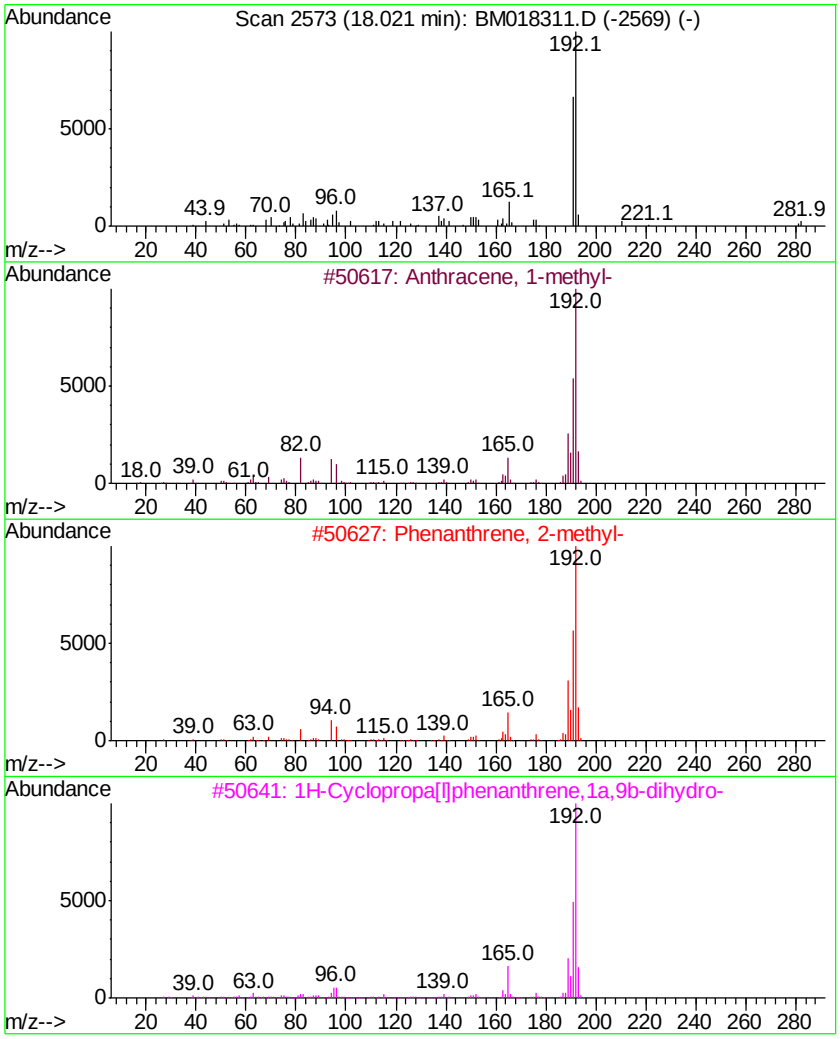
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

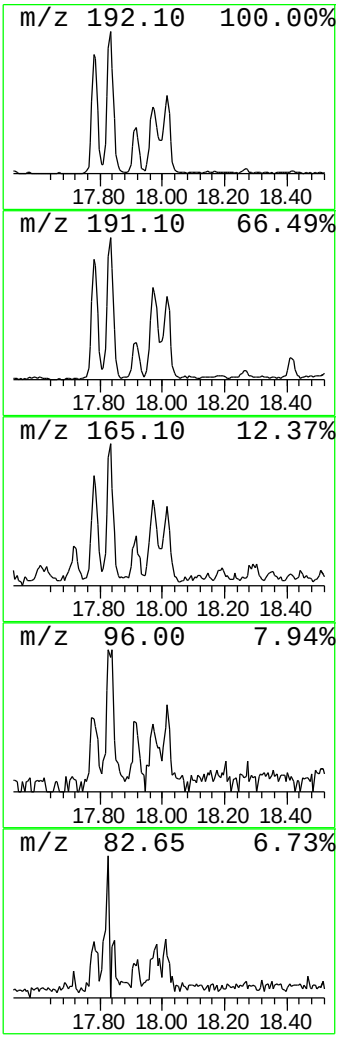
****

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	2.96 ng	191044	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	80
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72





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Acq On : 20 Dec 2018 00:01
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Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

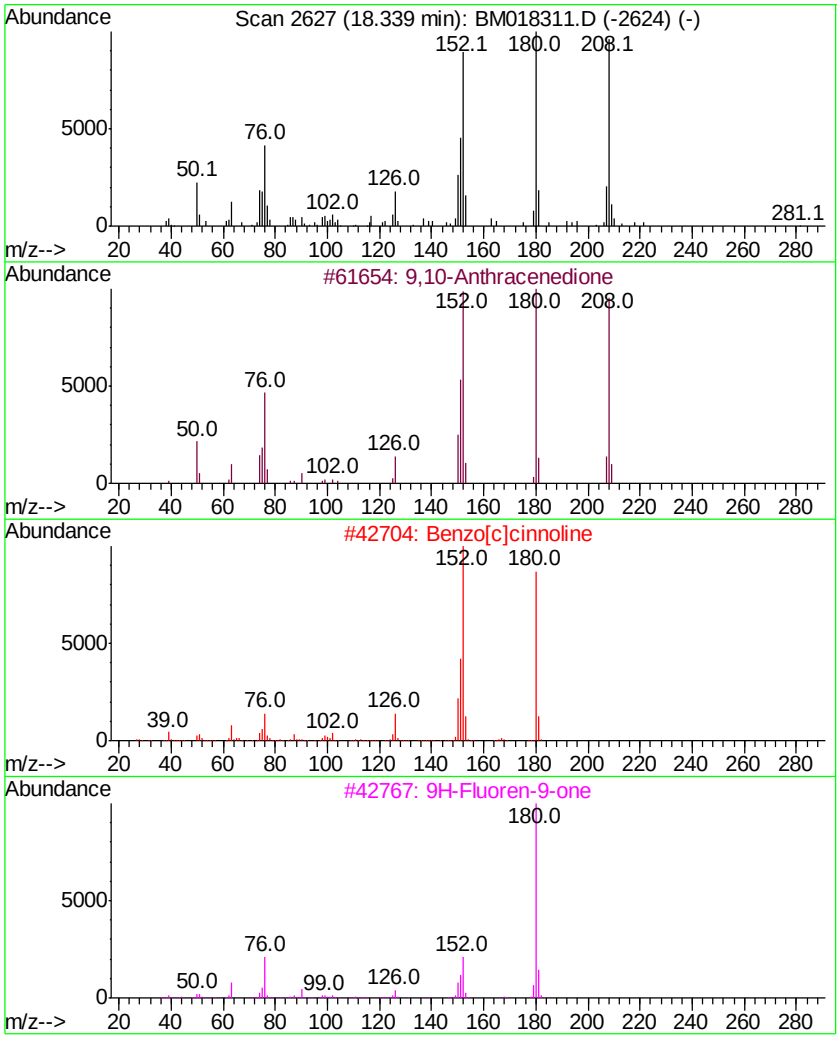
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

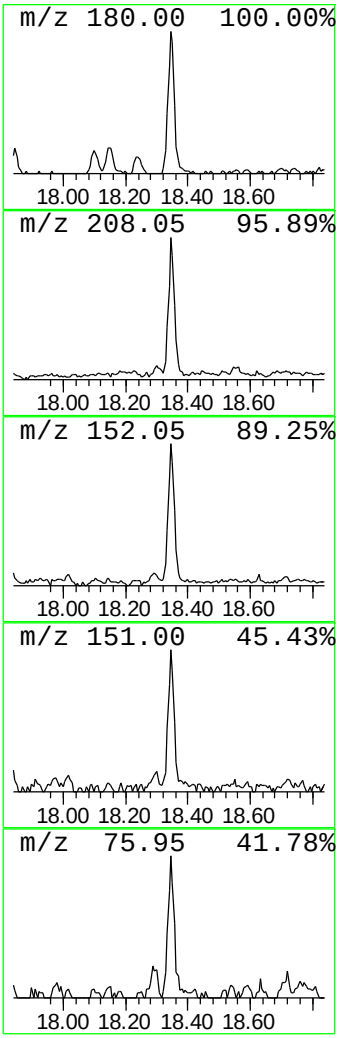
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	3.26 ng	210298	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	60





Library Search Compound Report

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Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

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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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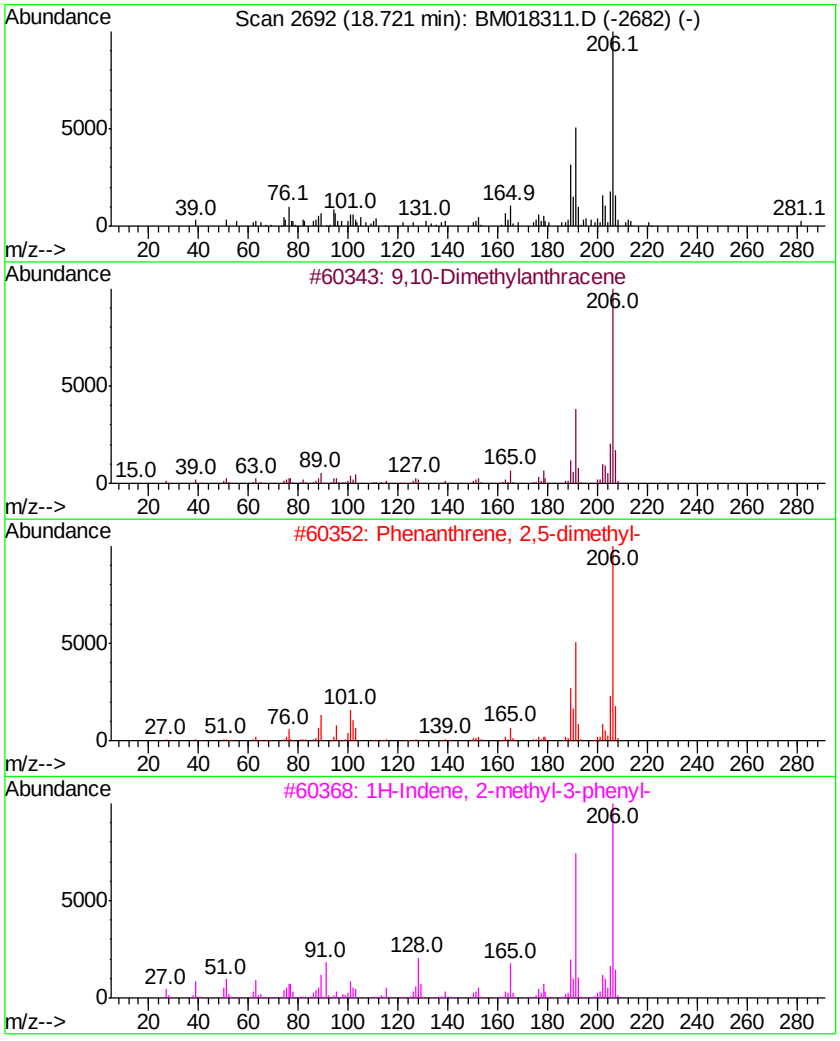
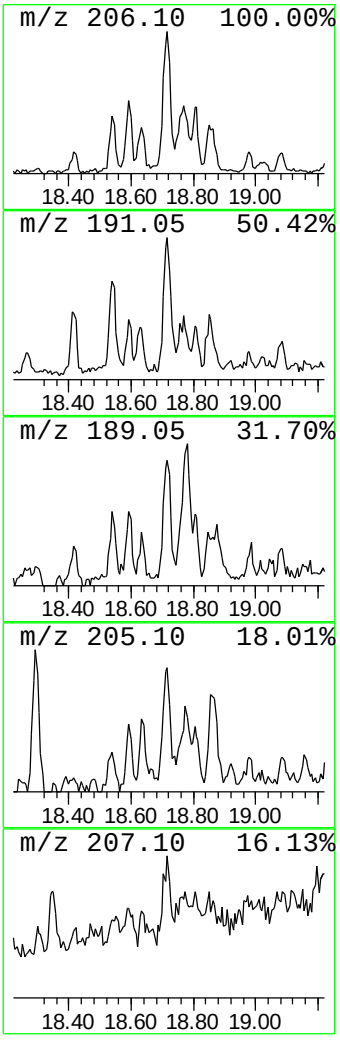
Peak Number 11 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.72	3.03 ng	195119	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





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Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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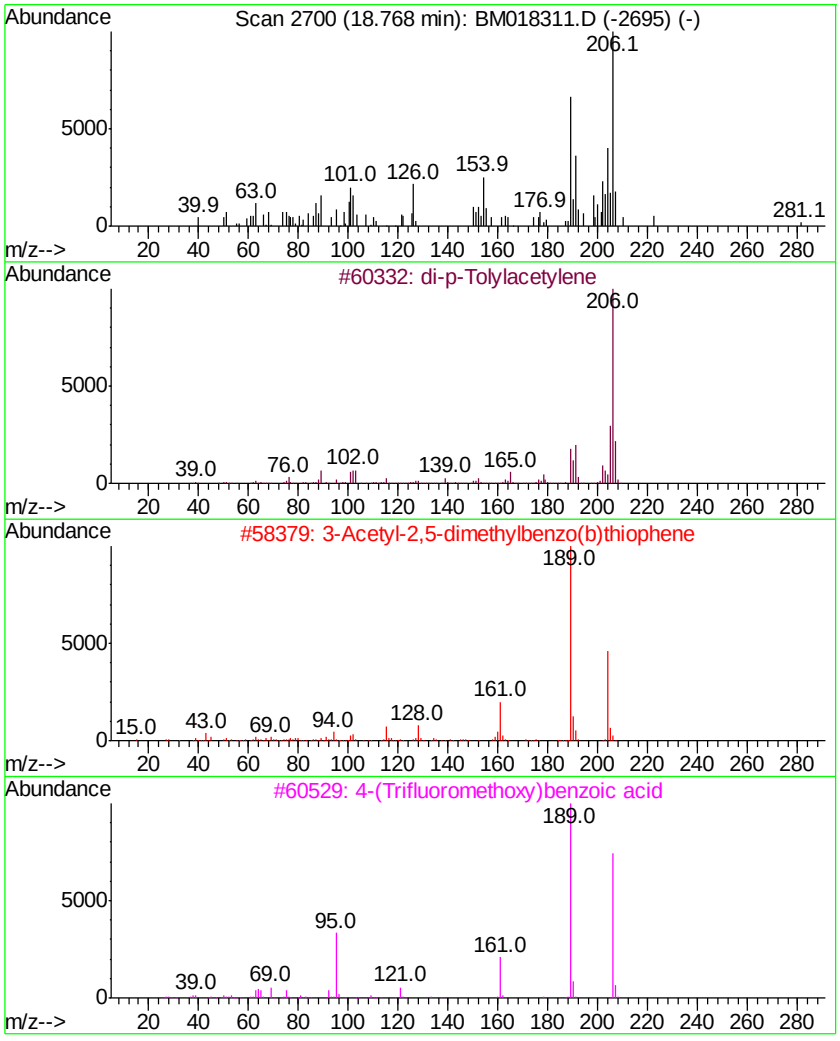
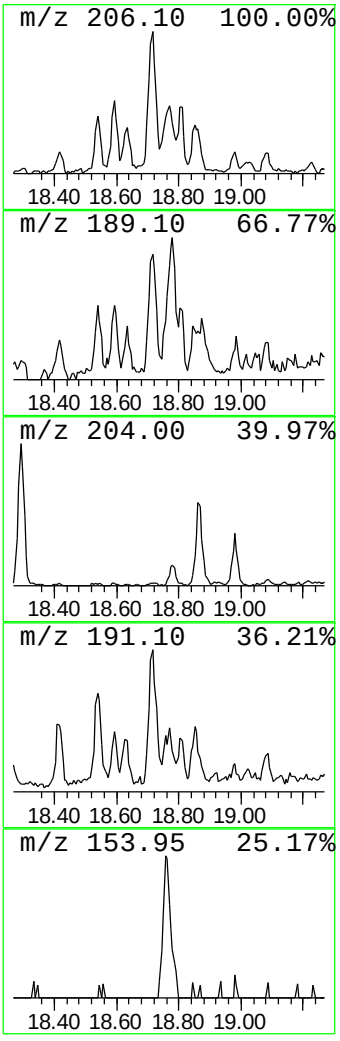
Peak Number 12 unknown18.77 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	2.22 ng	143154	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	38
2	3-Acetyl-2,5-dimethylbenzo(b)thi...	204	C12H12OS	006179-04-0	30
3	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30
4	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	30
5	2-Acetyl-3,5-dimethylbenzo(b)thi...	204	C12H12OS	006179-05-1	27





Library Search Compound Report

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Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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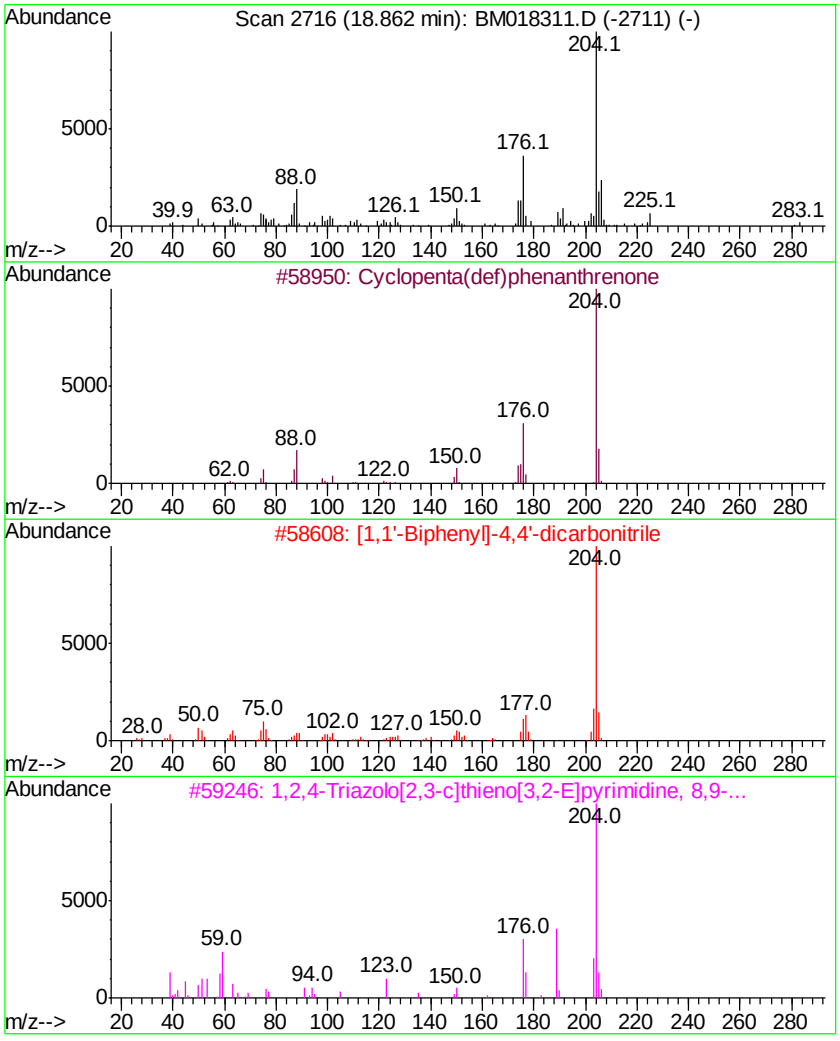
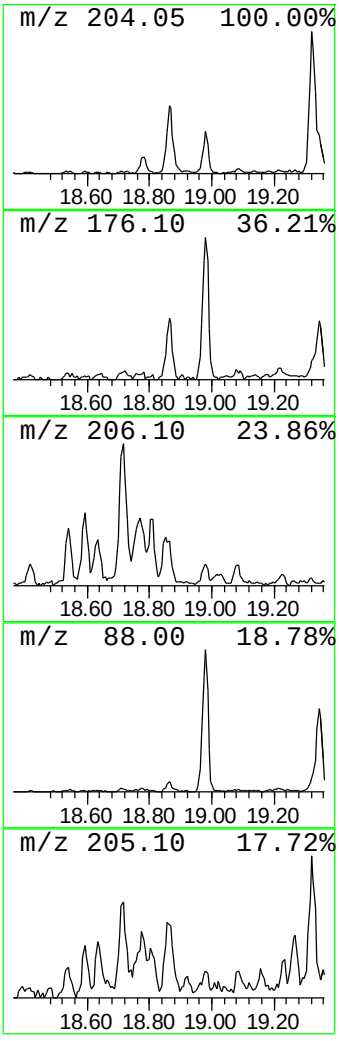
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.64 ng	170108	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	1,2,4-Triazolo[2,3-c]thieno[3,2-...	204	C9H8N4S	113246-88-1	50
4	[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	47
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	47





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ClientSampleId : EB06_1-3

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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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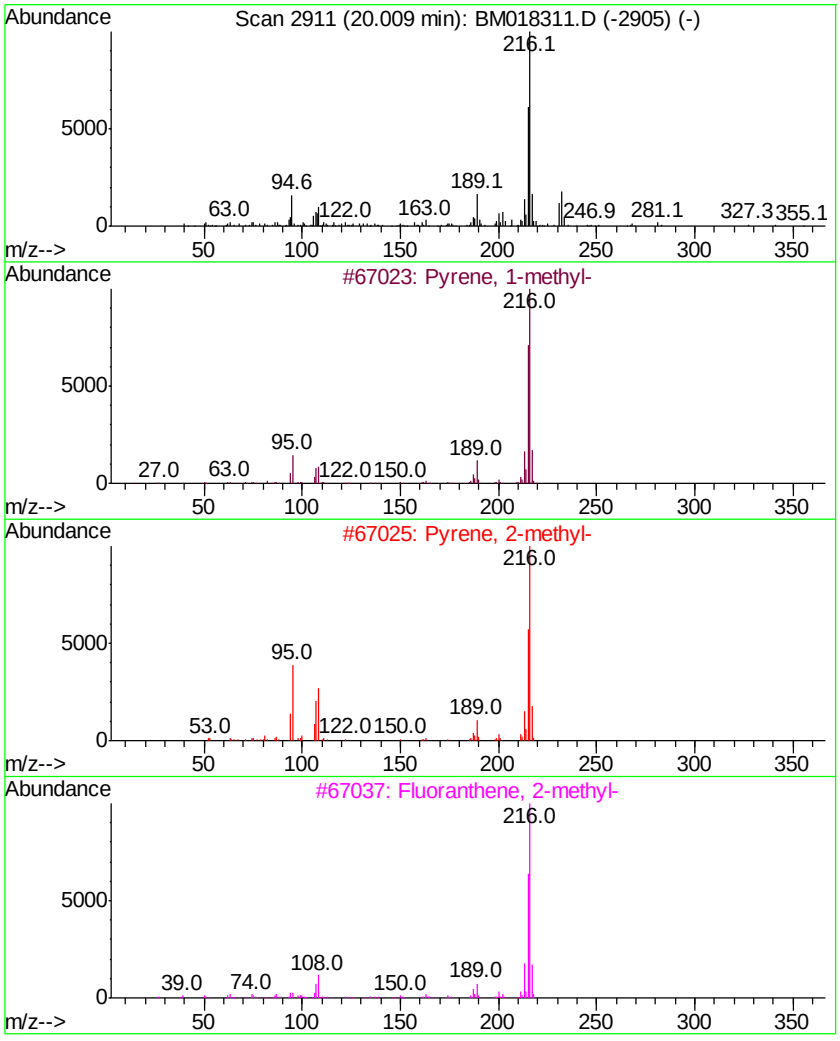
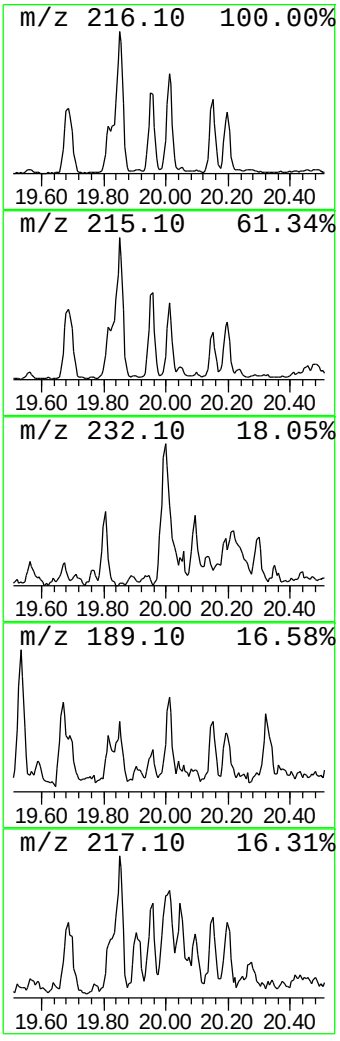
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.01	2.02 ng	318125	Chrysene-d12	21.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86





Library Search Compound Report

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Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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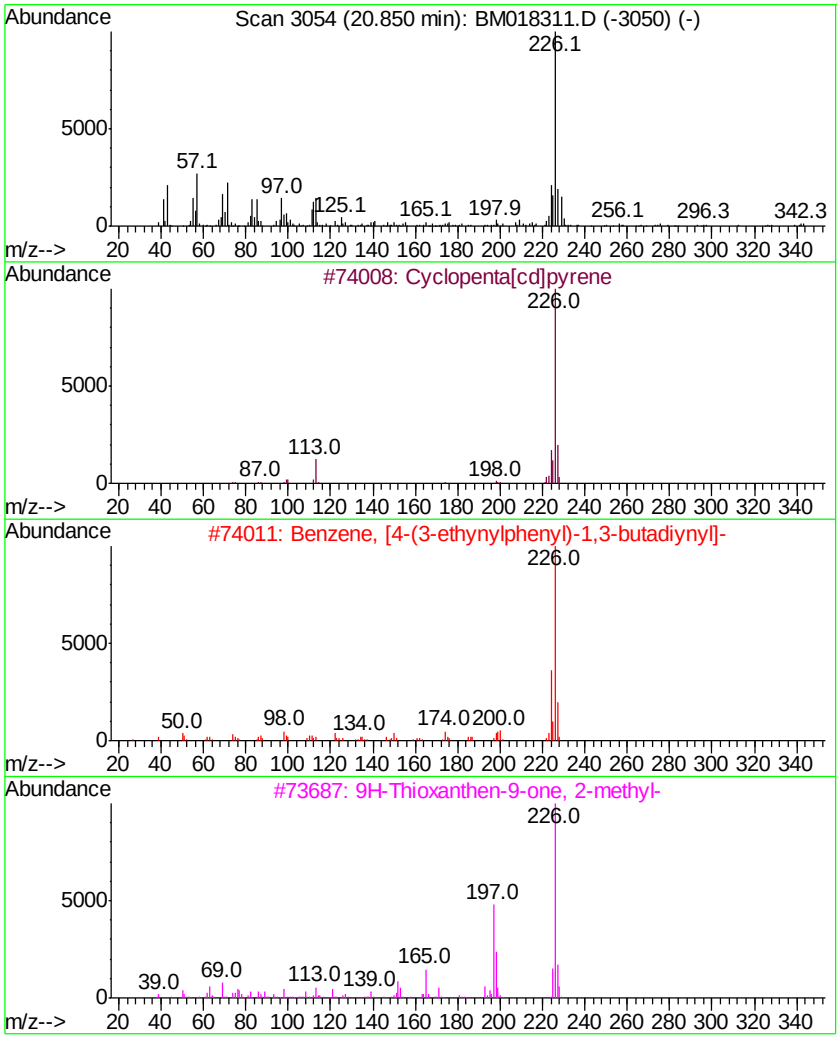
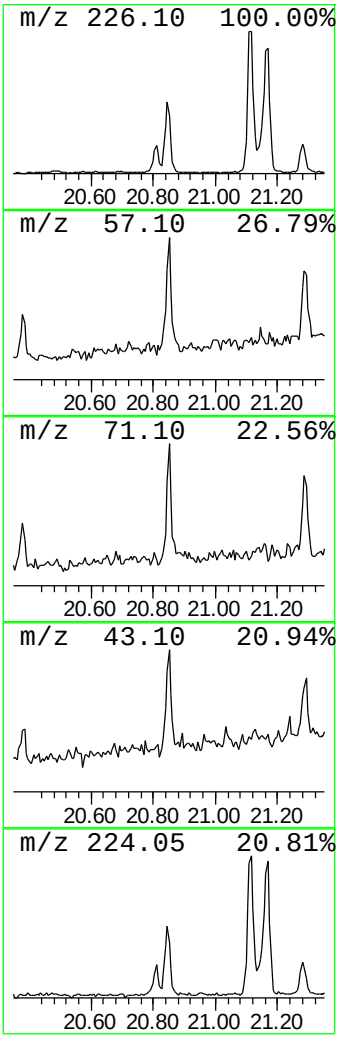
Peak Number 15 Cyclopenta[cd]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.85	2.36 ng	372766	Chrysene-d12	21.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	49
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	47
4	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	47
5	Anthralin	226	C14H10O3	000480-22-8	46





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Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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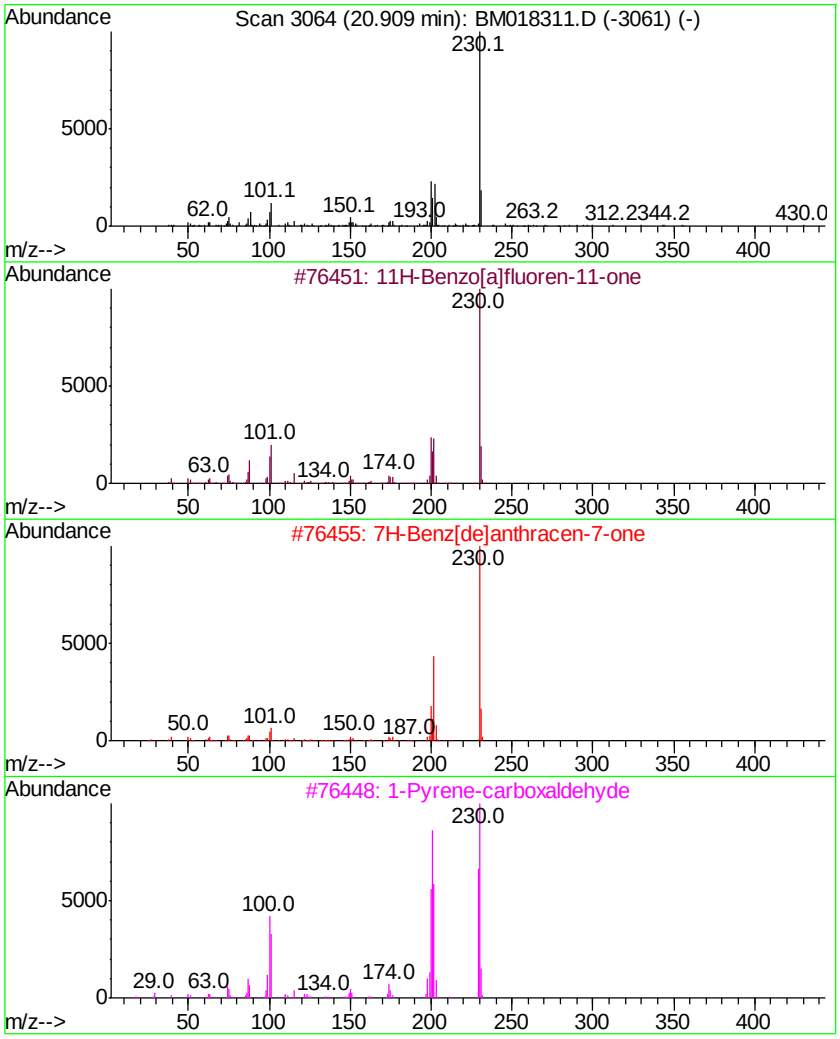
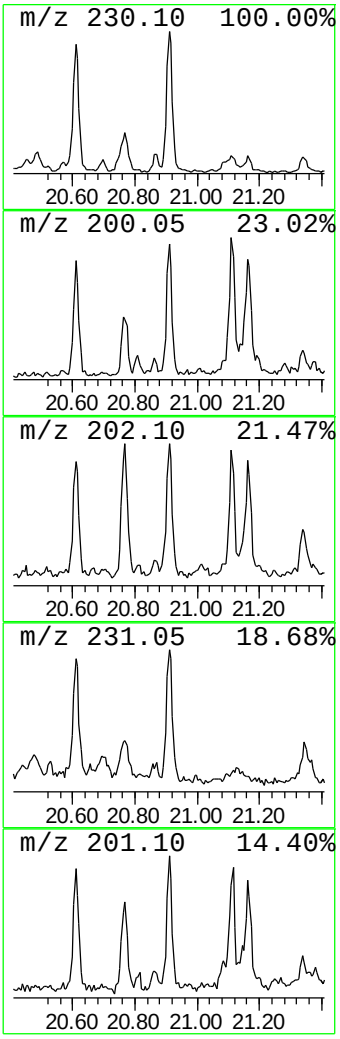
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.91	2.01 ng	316566	Chrysene-d12	21.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	93
3	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	64
4	o-Terphenyl	230	C18H14	000084-15-1	53
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	53





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Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

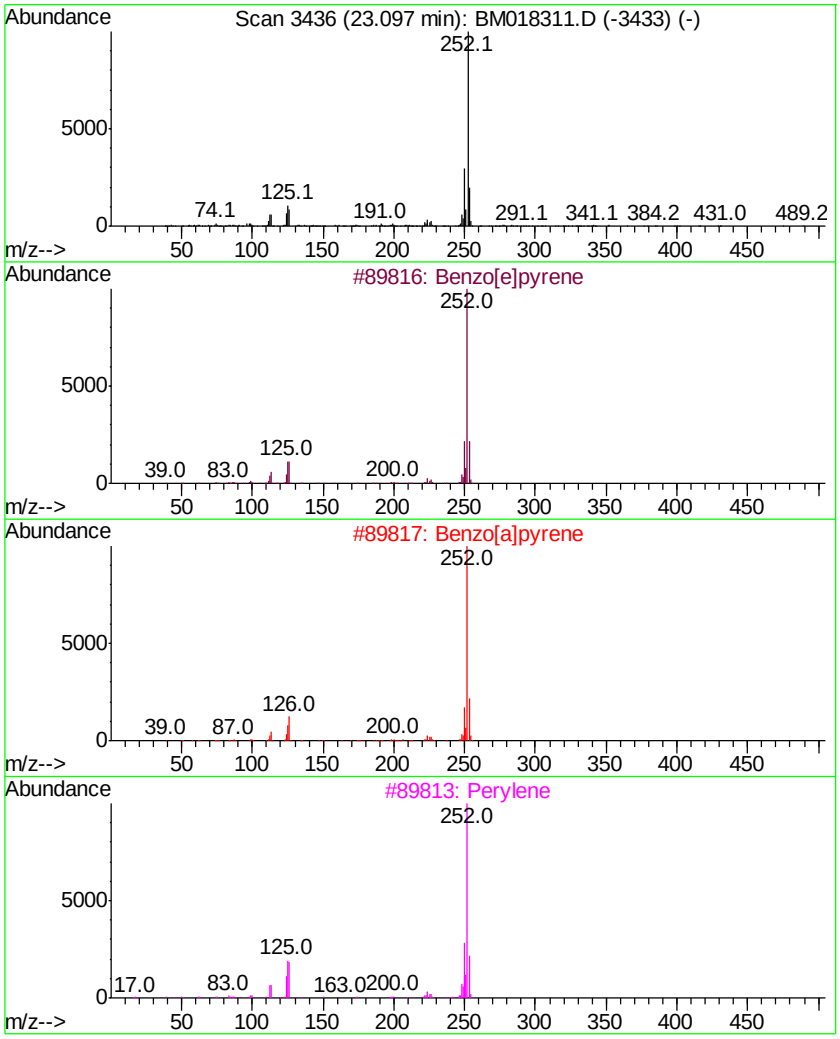
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

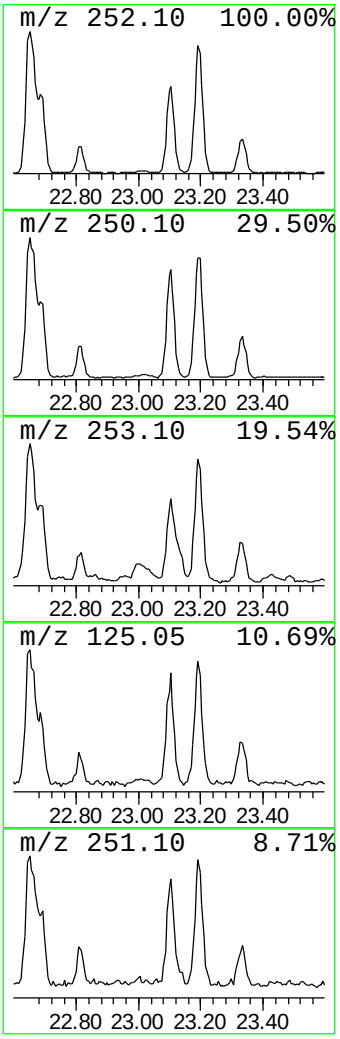
****

Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.10	11.64 ng	805095	Perylene-d12	23.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Perylene	252	C20H12	000198-55-0	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

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Data File : BM018311.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6445-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : EB06_1-3

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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
unknown7.02	7.02	41.8	ng	1619940	1	7.49	774836	20.0
Dibenzothiophene	16.73	2.1	ng	134411	4	16.90	1289090	20.0
Phenanthrene, 1-m...	17.78	4.7	ng	304986	4	16.90	1289090	20.0
Phenanthrene, 2-m...	17.83	8.8	ng	568091	4	16.90	1289090	20.0
Anthracene, 2-met...	17.92	2.1	ng	133549	4	16.90	1289090	20.0
4H-Cyclopenta[def...	17.97	7.1	ng	454903	4	16.90	1289090	20.0
Anthracene, 1-met...	18.02	3.0	ng	191044	4	16.90	1289090	20.0
9,10-Anthracenedione	18.34	3.3	ng	210298	4	16.90	1289090	20.0
9,10-Dimethylanth...	18.72	3.0	ng	195119	4	16.90	1289090	20.0
unknown18.77	18.77	2.2	ng	143154	4	16.90	1289090	20.0
Cyclopenta(def)ph...	18.86	2.6	ng	170108	4	16.90	1289090	20.0
Pyrene, 1-methyl-	20.01	2.0	ng	318125	5	21.13	3156010	20.0
Cyclopenta[cd]pyrene	20.85	2.4	ng	372766	5	21.13	3156010	20.0
11H-Benzo[a]fluor...	20.91	2.0	ng	316566	5	21.13	3156010	20.0
Benzo[e]pyrene	23.10	11.6	ng	805095	6	23.29	1383010	20.0