LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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	5.363	399	404	413	rBV	676233	1014549	1.73%	0.170%
2	6.951	667	674	684	rBV	657160	1094251	1.86%	0.183%
3	7.316	729	736	745	rBV	706233	1122371	1.91%	0.188%
4	7.787	809	816	826	rVB	851169	1360616	2.31%	0.228%
5	8.104	863	870	876	rBV	539749	868982	1.48%	0.146%
6	10.581	1284	1291	1295	rBV	999618	1658301	2.82%	0.278%
7	10.634	1295	1300	1314	rVB	1132729	1894375	3.22%	0.318%
8	12.245	1567	1574	1582	rVB	1193030	1883242	3.20%	0.316%
9	12.469	1602	1612	1622	rVB	1365045	2248966	3.83%	0.377%
10	13.045	1704	1710	1720	rVB	894340	1355221	2.31%	0.227%
11	13.604	1793	1805	1812	rBV3	716459	1957676	3.33%	0.328%
12	13.751	1823	1830	1835	rBV	1400945	2439573	4.15%	0.409%
13	13.804	1835	1839	1847	rVB	875933	1346456	2.29%	0.226%
14	13.986	1863	1870	1873	rVV	686417	1081264	1.84%	0.181%
15	14.157	1889	1899	1910	rBV	2263881	3763189	6.40%	0.631%
16	14.433	1934	1946	1951	rBV3	1319555	2422213	4.12%	0.406%
17	14.498	1951	1957	1964	rVB	2846506	4381371	7.45%	0.735%
18	14.833	2002	2014	2021	rVV2	2430084	4040865	6.87%	0.678%
19	14.904	2021	2026	2030	rVB	584741	768510	1.31%	0.129%
20	15.045	2043	2050	2055	rBV4	535476	1075786	1.83%	0.180%
21	15.216	2071	2079	2082	rBV3	324567	749845	1.28%	0.126%
22	15.486	2118	2125	2135	rVB	5788211	8634815	14.69%	1.448%
23	15.774	2169	2174	2180	rVB	900605	1349107	2.29%	0.226%
24	15.921	2190	2199	2207	rVB3	1659803	3142508	5.35%	0.527%
25	16.157	2230	2239	2248	rVB5	368686	995669	1.69%	0.167%
26	16.480	2285	2294	2299	rBV2	1199776	2500426	4.25%	0.419%
27	16.533	2299	2303	2308	rVB2	710142	964240	1.64%	0.162%
28	16.633	2315	2320	2325	rVB	683138	954643	1.62%	0.160%
29	16.710	2325	2333	2336	rVV3	413236	907345	1.54%	0.152%
30	16.751	2336	2340	2347	rVV4	576857	1156246	1.97%	0.194%
31	16.839	2350	2355	2361	rVV2	787541	1277457	2.17%	0.214%
32	16.910	2362	2367	2373	rVV3	462926	987243	1.68%	0.166%
33	17.004	2377	2383	2391	rVB	2223839	3474773	5.91%	0.583%
34	17.186	2408	2414	2416	rBV	1376460	2078923	3.54%	0.349%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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	17.239	2416	2423	2428	rVV	30195991	46913929	79.80%	7.866%
36	17.321	2428	2437	2442	rVV	9940974	14383989	24.47%	2.412%
37	17.374	2442	2446	2451	rVV	653982	1125567	1.91%	0.189%
38	17.592	2475	2483	2490	rBV	2590481	4098139	6.97%	0.687%
39	17.698	2497	2501	2507	rBV2	777666	1109659	1.89%	0.186%
40	17.762	2507	2512	2519	rVB3	1181754	1992892	3.39%	0.334%
41	17.904	2531	2536	2544	rVB	737900	1461888	2.49%	0.245%
42	18.057	2553	2562	2566	rBV	4417156	6410328	10.90%	1.075%
43	18.109	2566	2571	2576	rVB	5548790	7825200	13.31%	1.312%
44	18.186	2576	2584	2589	rBV	2210585	3376635	5.74%	0.566%
45	18.257	2589	2596	2600	rBV2	7236696	13369231	22.74%	2.242%
46	18.292	2600	2602	2608	rVB	3164535	3337363	5.68%	0.560%
47	18.557	2642	2647	2652	rVV	2892575	4303667	7.32%	0.722%
48	18.609	2652	2656	2665	rVB	1831263	2565123	4.36%	0.430%
49	18.804	2686	2689	2693	rVV	865365	1253071	2.13%	0.210%
50	18.851	2693	2697	2701	rVV	1119189	1582358	2.69%	0.265%
51	18.892	2701	2704	2708	rVB2	834807	1074575	1.83%	0.180%
52	18.974	2713	2718	2723	rBV	2410976	4230910	7.20%	0.709%
53	19.039	2723	2729	2732	rVV2	1324899	2878906	4.90%	0.483%
54	19.068	2732	2734	2738	rVB	755099	911100	1.55%	0.153%
55	19.133	2738	2745	2751	rBV3	1571304	3347550	5.69%	0.561%
56	19.262	2758	2767	2771	rBV2	36157906	58786055	100.00%	9.856%
57	19.309	2771	2775	2778	rVV2	645701	812217	1.38%	0.136%
58	19.345	2778	2781	2785	rVB3	941569	1196533	2.04%	0.201%
59	19.398	2785	2790	2794	rBV	1289076	1673788	2.85%	0.281%
60	19.492	2801	2806	2809	rBV	1331710	1877775	3.19%	0.315%
61	19.627	2816	2829	2834	rBV3	32723555	58684019	99.83%	9.839%
62	19.680	2834	2838	2844	rVB	1713770	2514214	4.28%	0.422%
63	19.786	2844	2856	2863	rBV2	2083334	5522231	9.39%	0.926%
64	19.856	2863	2868	2874	rVB	1309003	2229551	3.79%	0.374%
65	19.927	2874	2880	2888	rBV3	2343688	6085225	10.35%	1.020%
66	19.992	2888	2891	2895	rVV	836214	1310919	2.23%	0.220%
67	20.062	2898	2903	2906	rVV4	2007124	3981788	6.77%	0.668%
68	20.103	2906	2910	2915	rVB	6170636	8664735	14.74%	1.453%
69	20.203	2923	2927	2931	rBV	5351247	6628629	11.28%	1.111%
70	20.262	2931	2937	2941	rVV2	3445417	5459422	9.29%	0.915%
71	20.345	2947	2951	2956	rBV3	489956	959279	1.63%	0.161%

LSC Area Percent Report

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Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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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Peak separation: 5

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

72	20.403	2957	2961	2964	rVV	2138341	2778033	4.73%	0.466%
73	20.445	2964	2968	2977	rVB	2414889	3688011	6.27%	0.618%
74	20.809	3026	3030	3033	rBV2	731305	1176560	2.00%	0.197%
75	20.850	3033	3037	3043	rVB	2210451	3281915	5.58%	0.550%
76	21.015	3061	3065	3069	rBV	3115128	4366648	7.43%	0.732%
77	21.056	3069	3072	3075	rVV	3167703	3717311	6.32%	0.623%
78	21.098	3075	3079	3083	rVV2	3154286	4491591	7.64%	0.753%
79	21.150	3085	3088	3098	rVB	2252725	3732716	6.35%	0.626%
80	21.256	3104	3106	3113	rVB	995405	1317380	2.24%	0.221%
81	21.368	3116	3125	3129	rBV2	22254611	37896535	64.47%	6.354%
82	21.415	3129	3133	3138	rVB	18475694	24445925	41.58%	4.099%
83	21.527	3149	3152	3158	rBV	2657889	3904440	6.64%	0.655%
84	21.580	3158	3161	3165	rVV2	2151826	2985883	5.08%	0.501%
85	21.639	3169	3171	3175	rVB	1283080	1429049	2.43%	0.240%
86	21.692	3175	3180	3184	rBV3	2075614	3433098	5.84%	0.576%
87	21.733	3184	3187	3192	rVB2	762226	992859	1.69%	0.166%
88	21.868	3206	3210	3213	rBV	1461187	2062369	3.51%	0.346%
89	21.927	3214	3220	3225	rVV	3511193	6431566	10.94%	1.078%
90	21.980	3226	3229	3235	rVB	1764308	2371942	4.03%	0.398%
91	22.086	3244	3247	3251	rVB2	1143288	1495561	2.54%	0.251%
92	22.127	3251	3254	3257	rBV	1663847	2347360	3.99%	0.394%
93	22.227	3267	3271	3281	rVB4	1524825	2923935	4.97%	0.490%
94	22.997	3393	3402	3406	rBV	12568948	31537265	53.65%	5.288%
95	23.162	3424	3430	3435	rVB	2874246	4868378	8.28%	0.816%
96	23.486	3478	3485	3494	rVB	7449228	15687551	26.69%	2.630%
97	23.591	3495	3503	3509	rBV	12230367	24496932	41.67%	4.107%
98	23.733	3522	3527	3534	rVB2	3740124	7112495	12.10%	1.193%
99	26.044	3911	3920	3929	rVB2	5531673	17253561	29.35%	2.893%
100	26.780	4037	4045	4061	rVB	4111950	13317533	22.65%	2.233%

Sum of corrected areas: 596433879

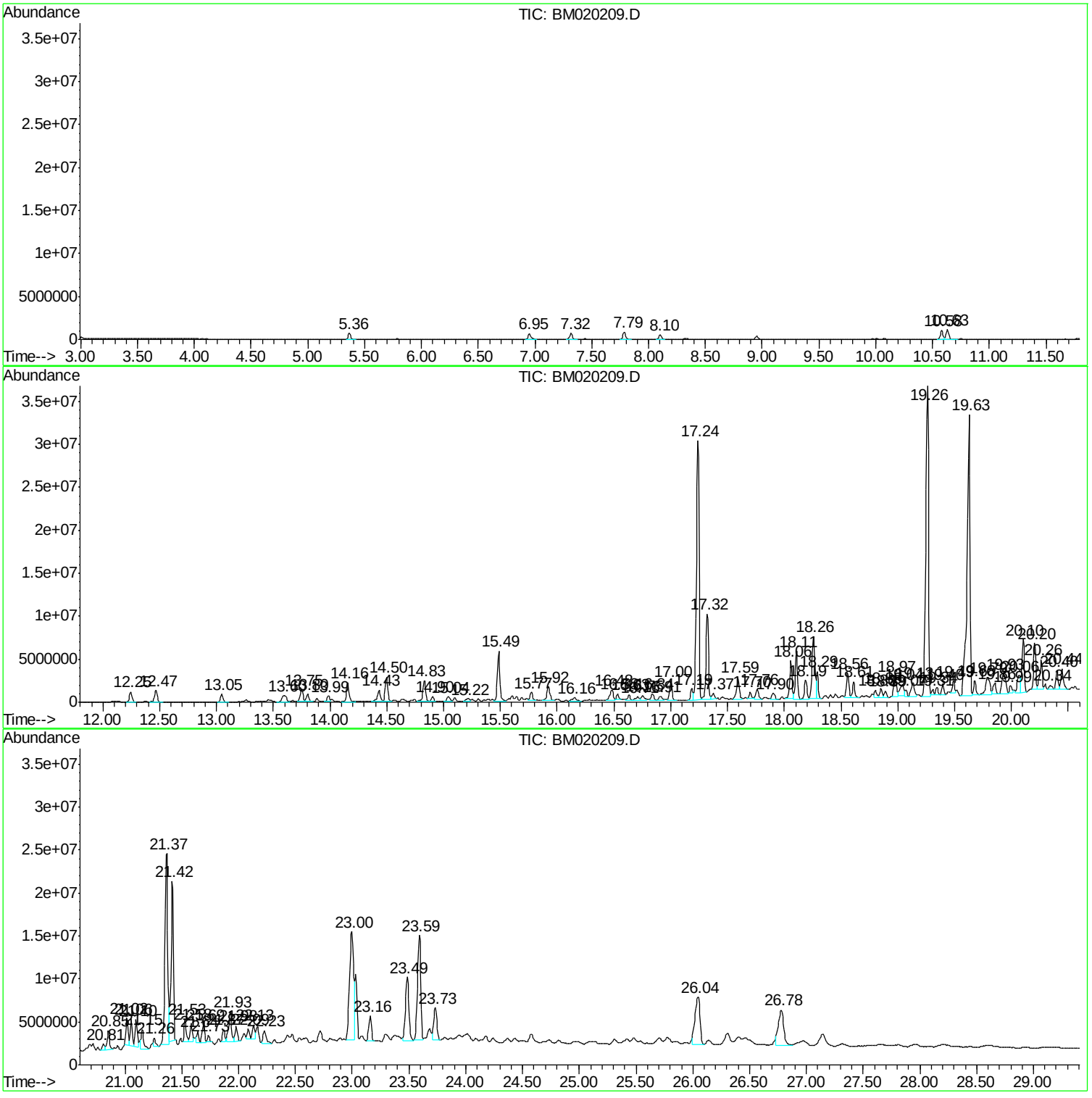
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PL-02-050719-A

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\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

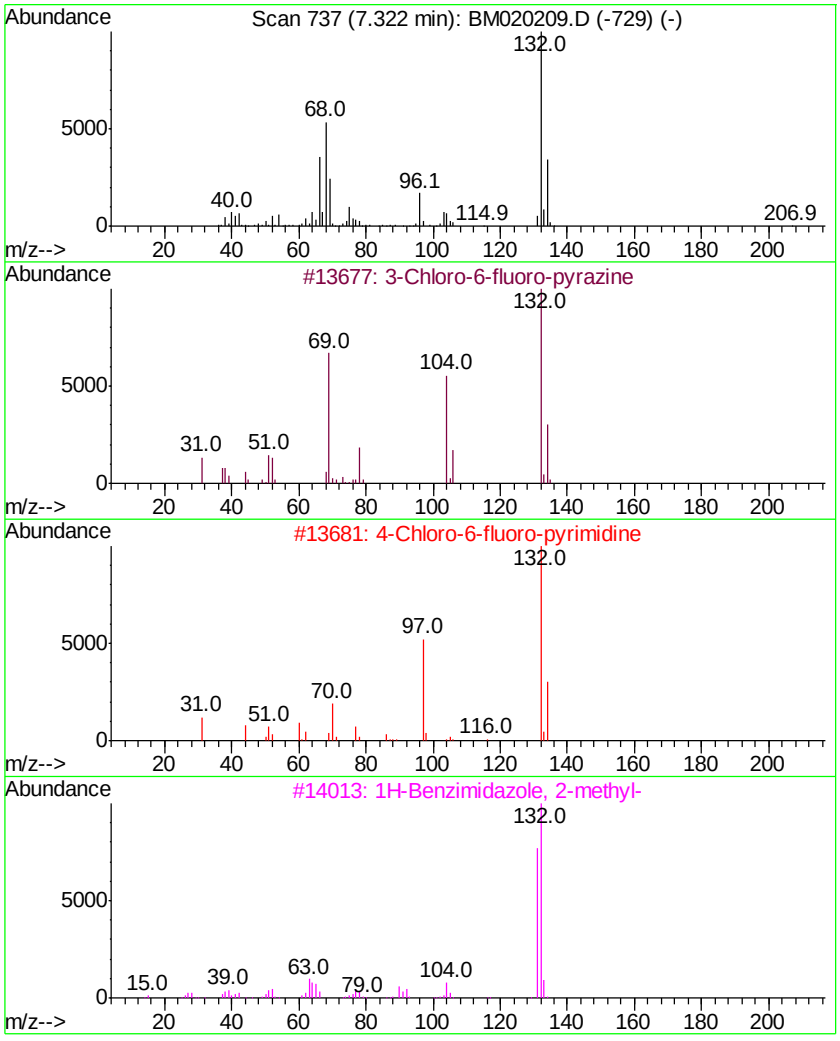
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

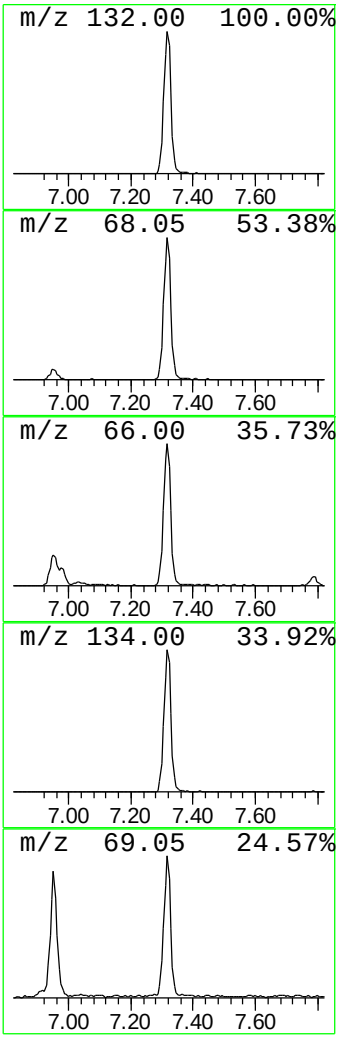
****

Peak Number 1 unknown7.32 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.32	16.50 ng	1122370	1,4-Dichlorobenzene-d4	7.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	14
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	14
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
4	5-Aminoindole	132	C8H8N2	005192-03-0	10
5	Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9





Library Search Compound Report

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Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

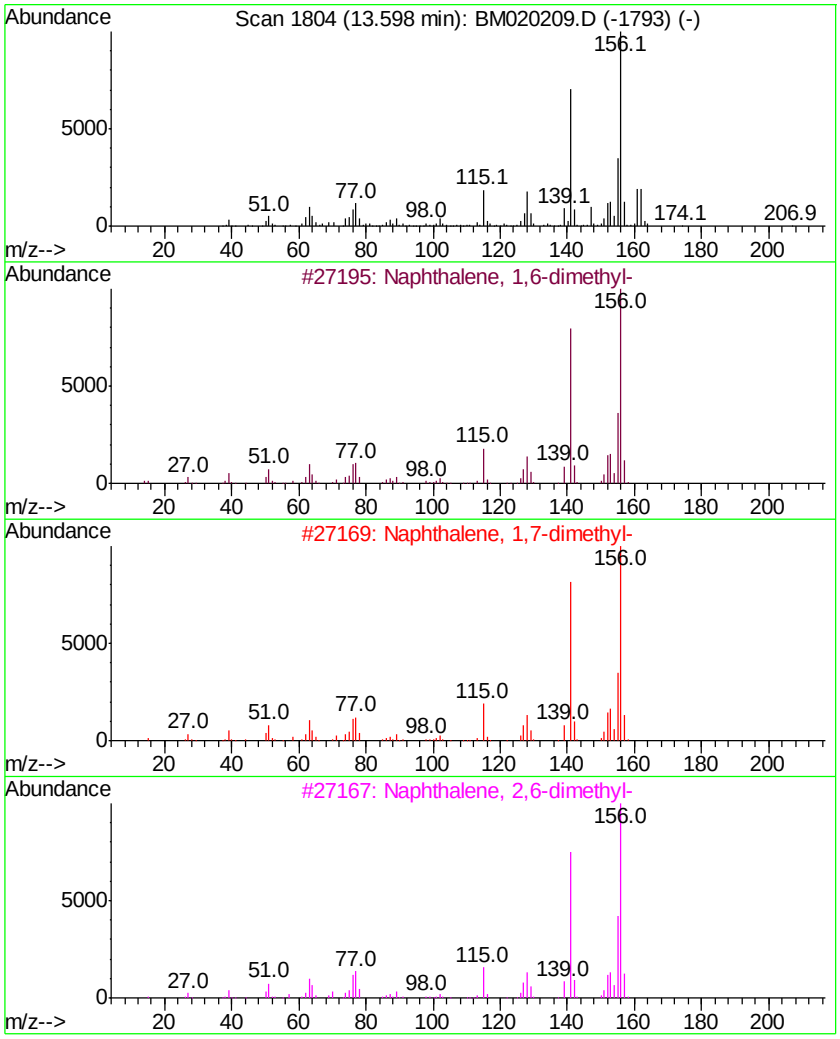
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

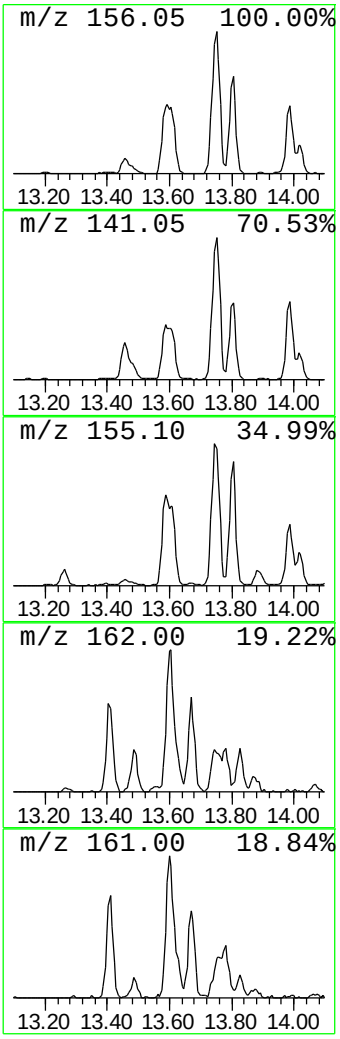
****

Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	16.16 ng	1957680	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95





Library Search Compound Report

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Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

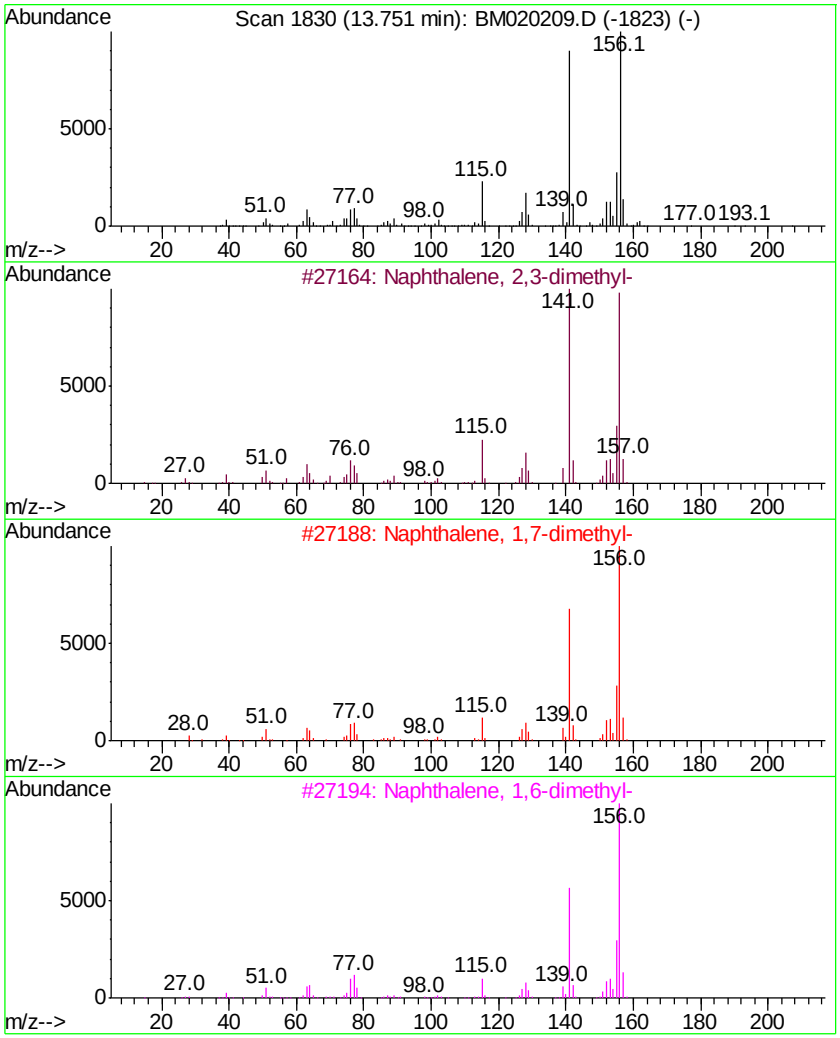
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

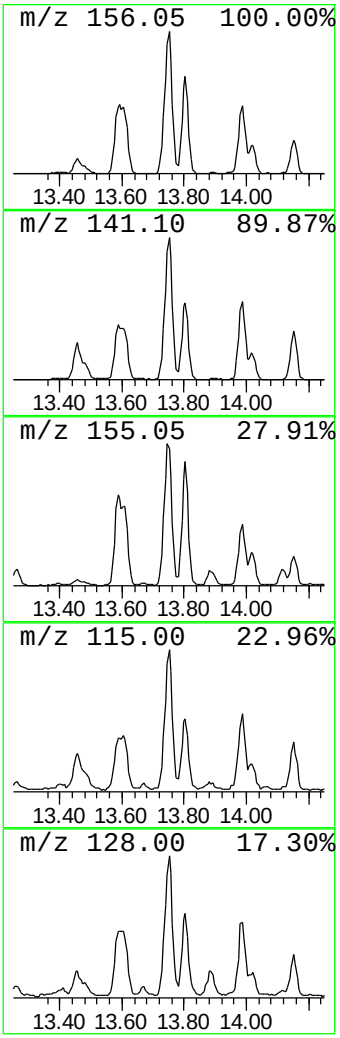
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	20.14 ng	2439570	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





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Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
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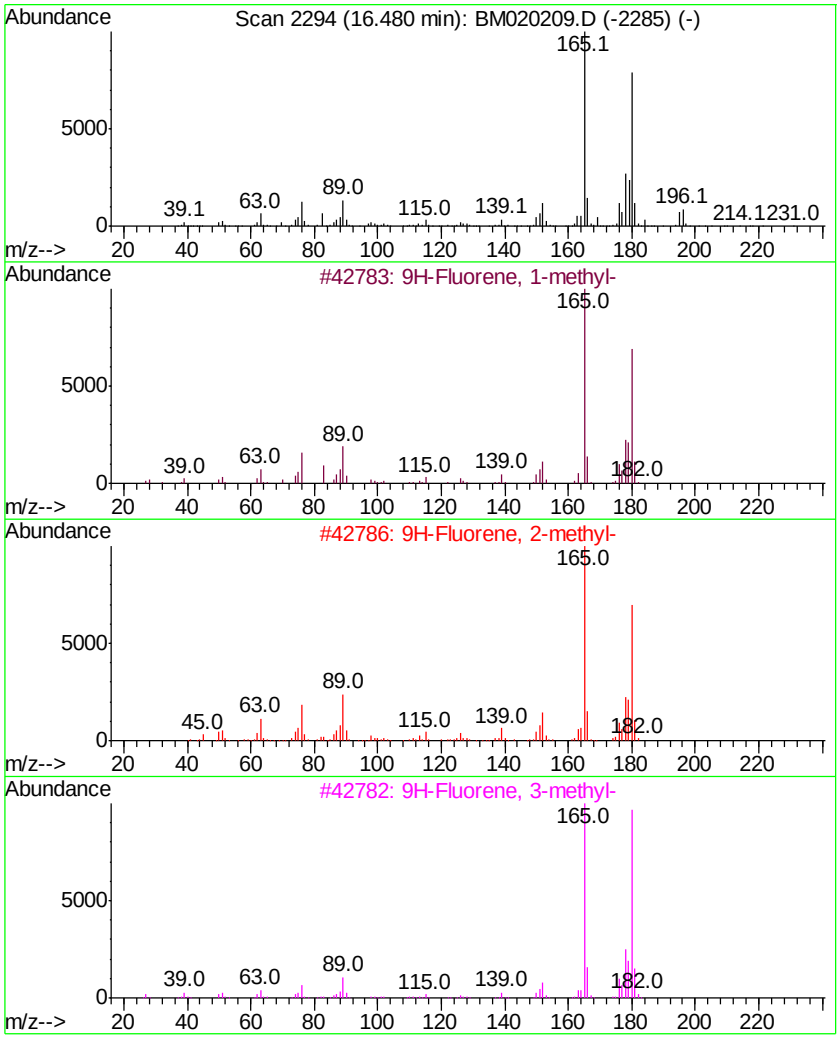
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

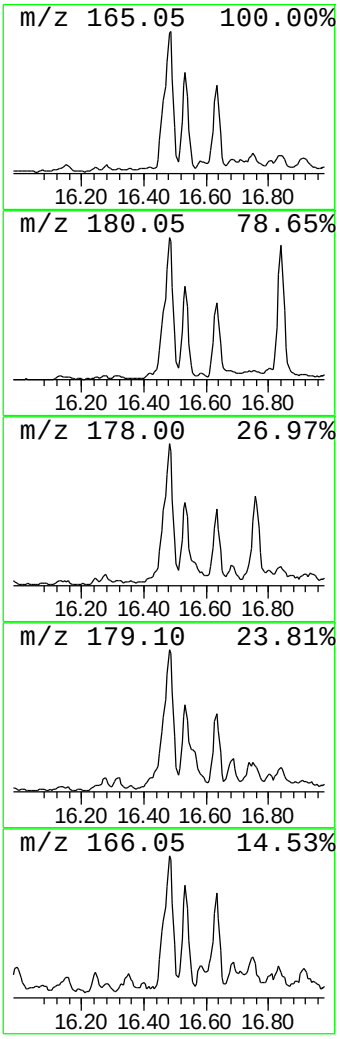
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	24.06 ng	2500430	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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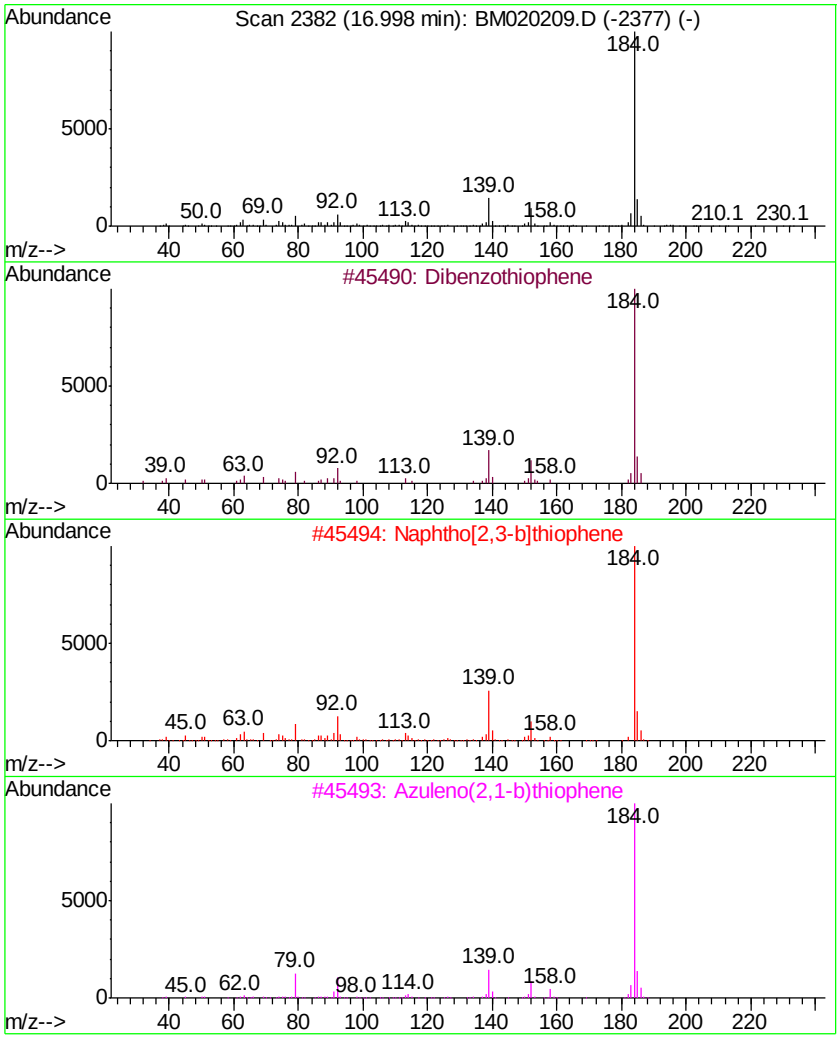
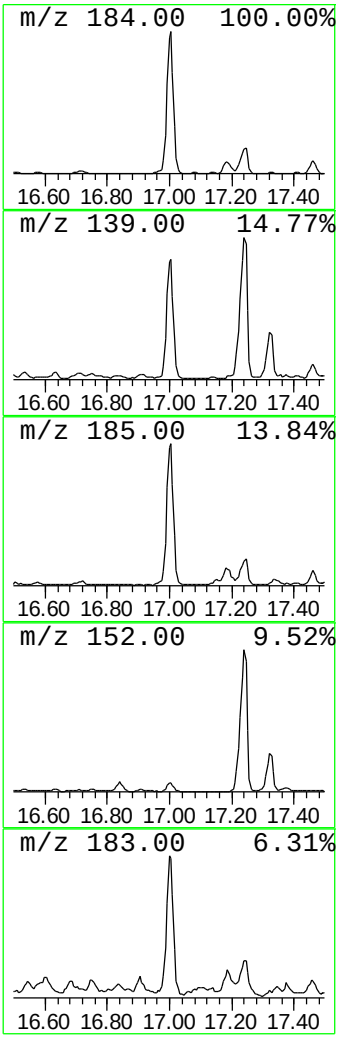
Peak Number 5 Dibenzothiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	33.43 ng	3474770	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Library Search Compound Report

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Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
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Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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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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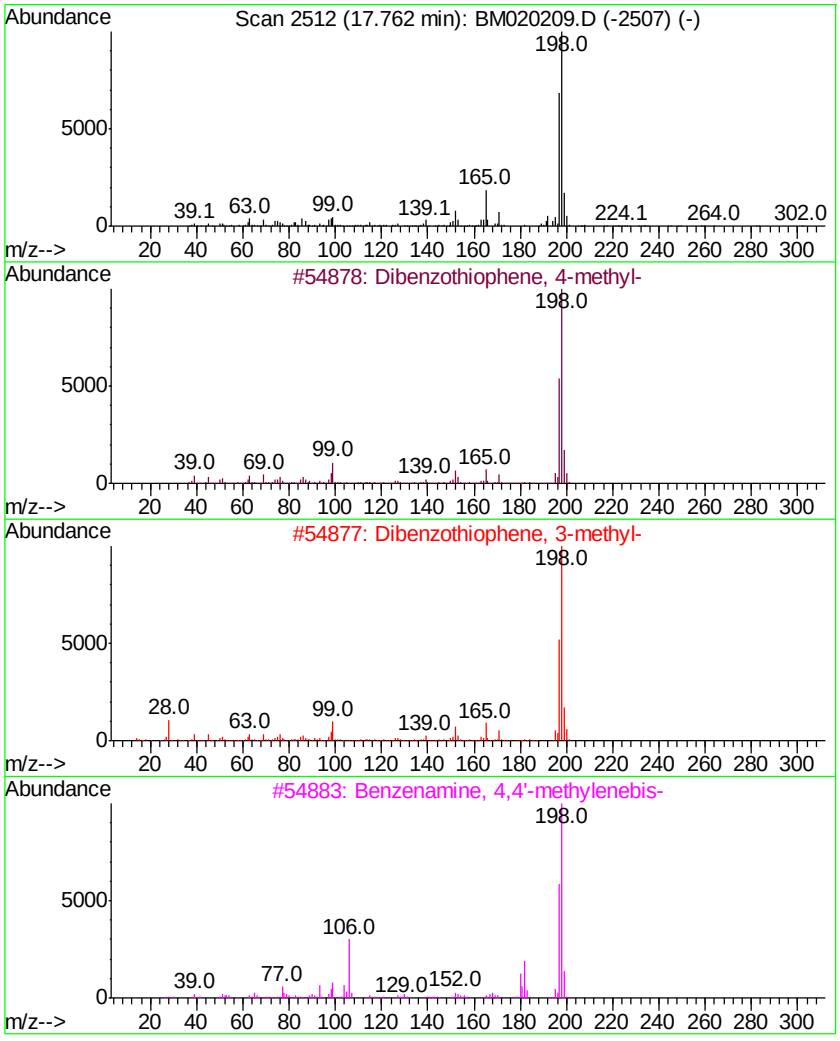
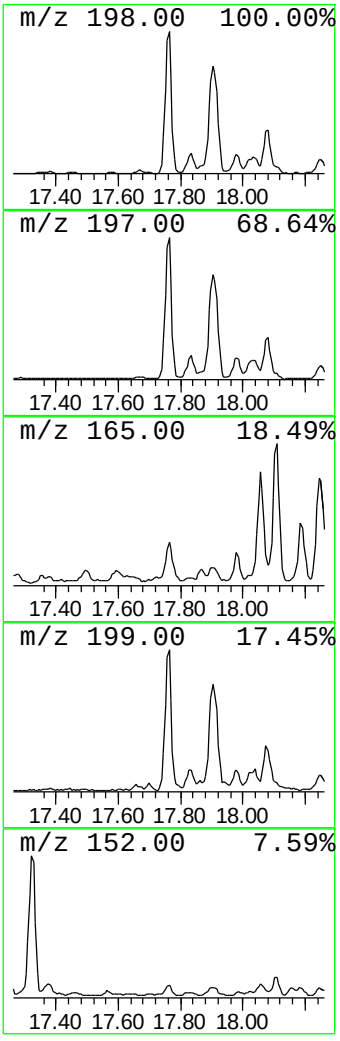
Peak Number 6 Dibenzothiophene, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.76	19.17 ng	1992890	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	87
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72
4	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64





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Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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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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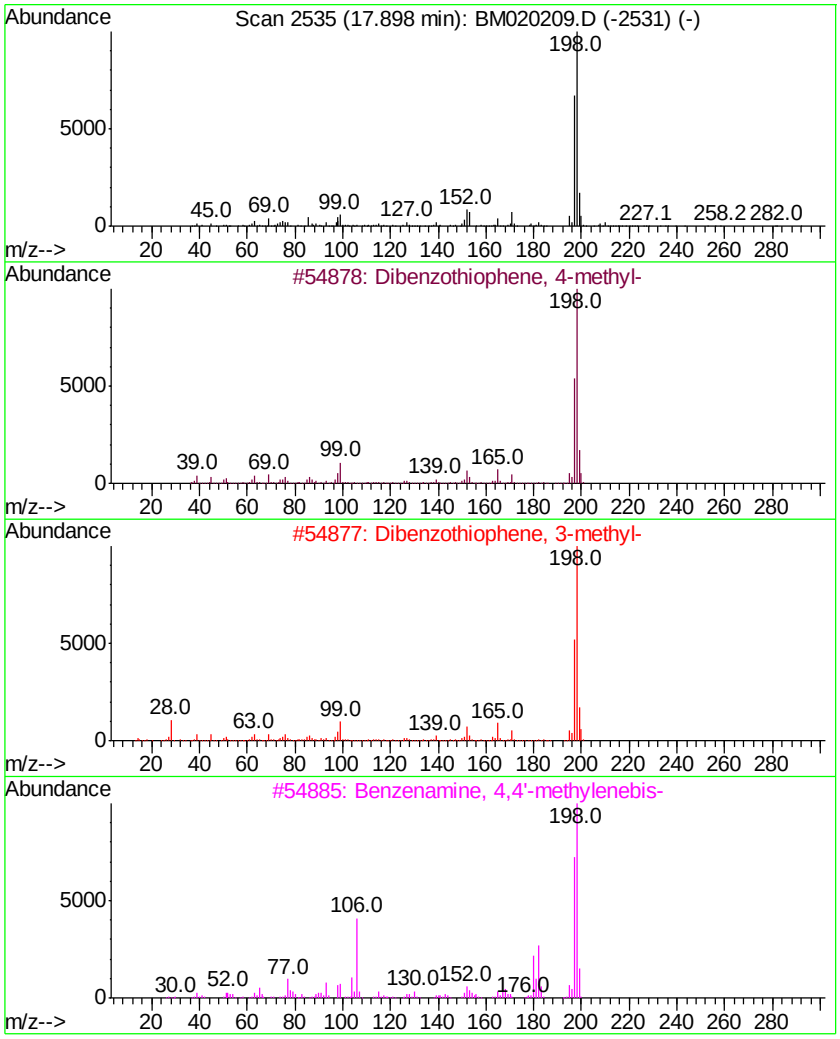
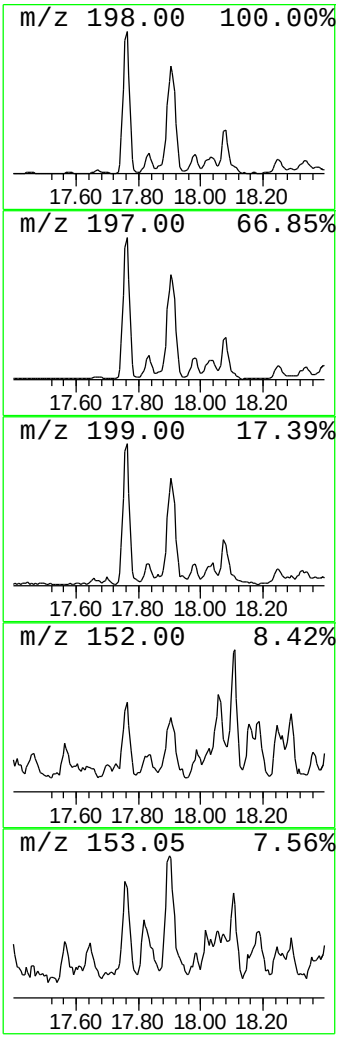
Peak Number 7 Dibenzothiophene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.90	14.06 ng	1461890	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	87
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	78
4	2,4-Diamino-5H-indeno[1,2-d]pyri...	198	C11H10N4	095140-64-0	72
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	72





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

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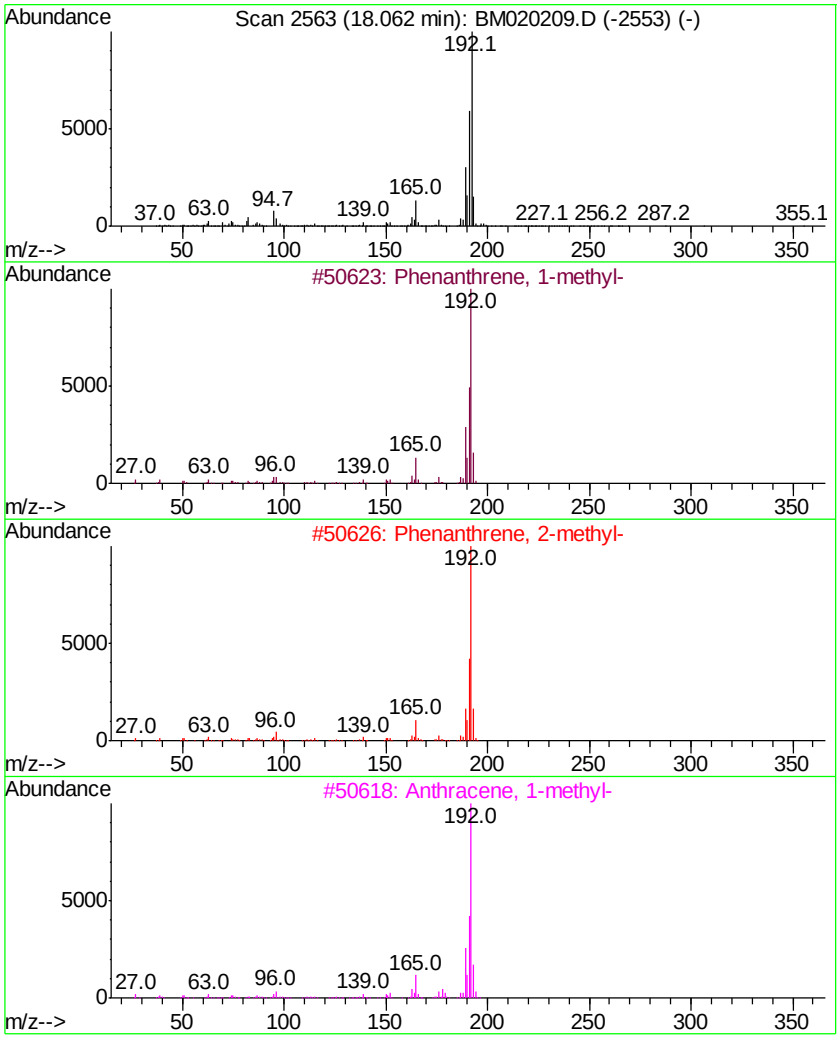
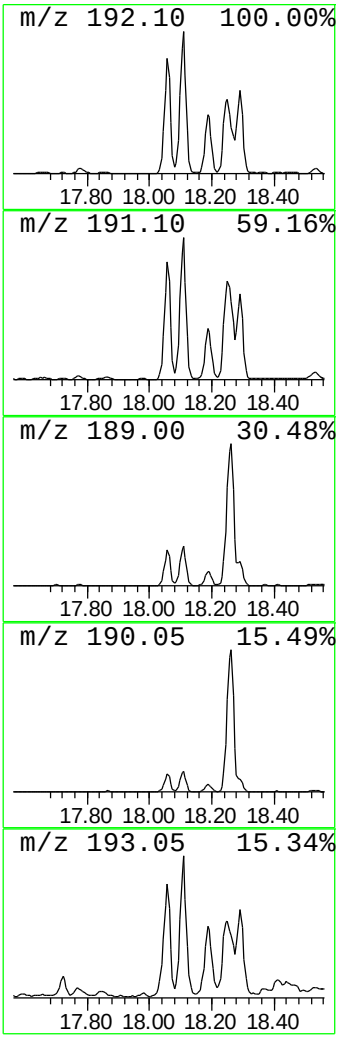
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	61.67 ng	6410330	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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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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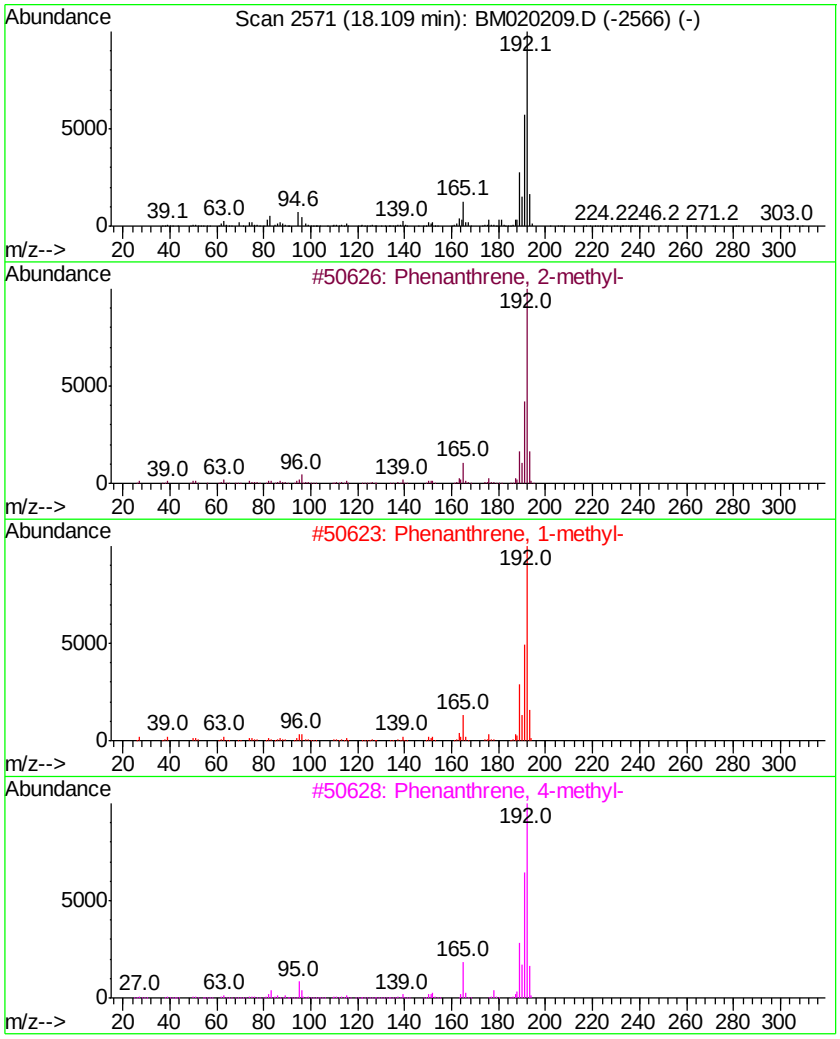
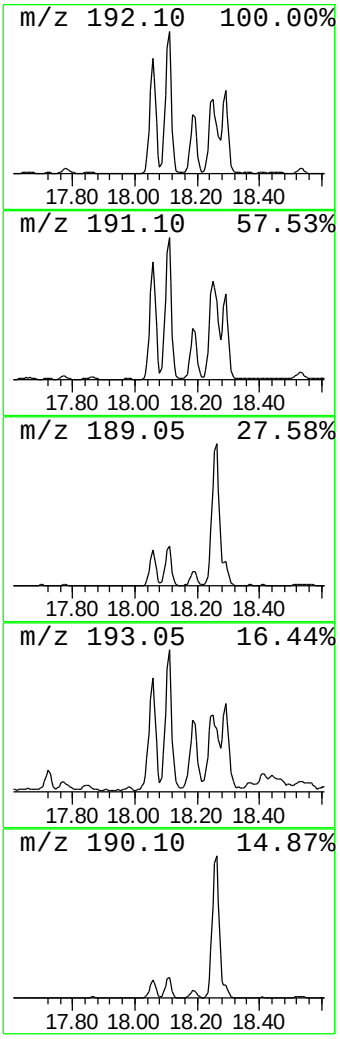
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.11	75.28 ng	7825200	Phenanthrene-d10	17.19

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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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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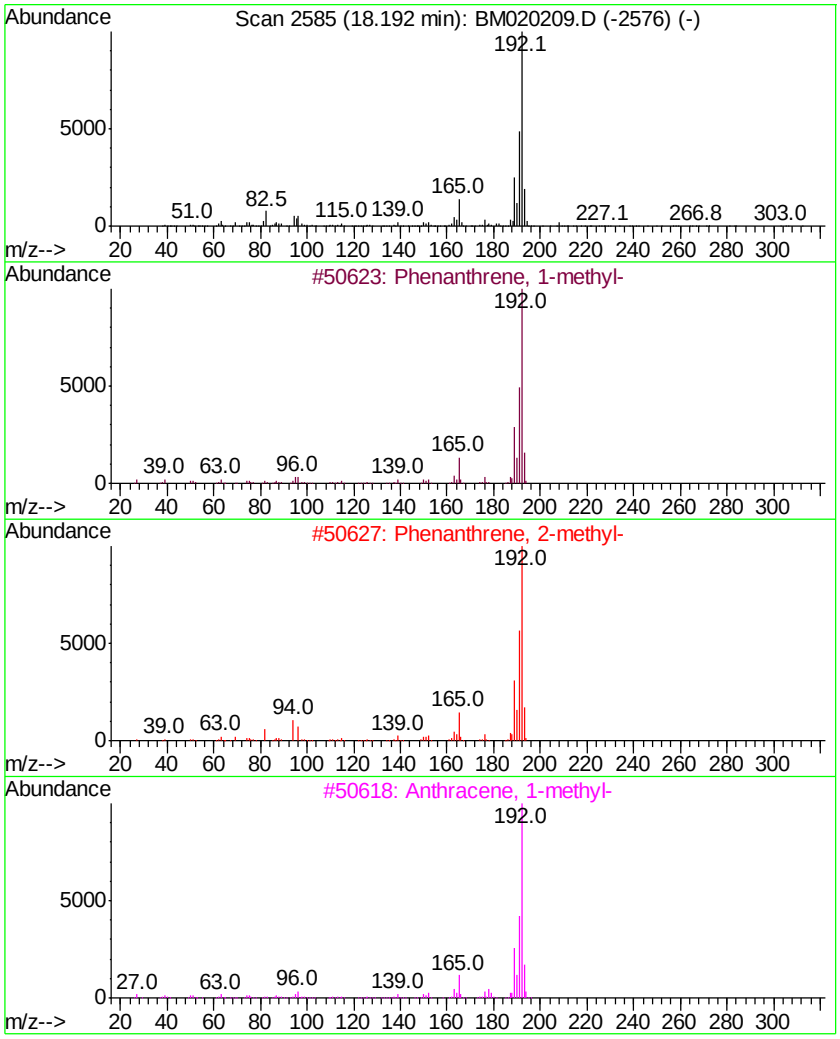
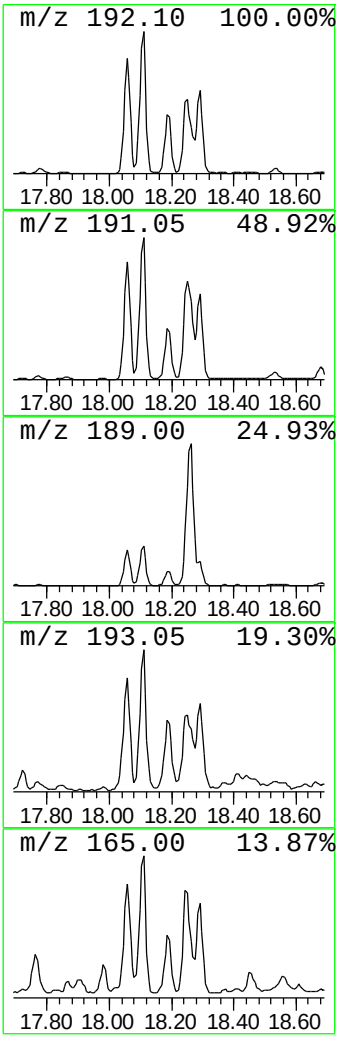
Peak Number 10 Anthracene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	32.48 ng	3376640	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96





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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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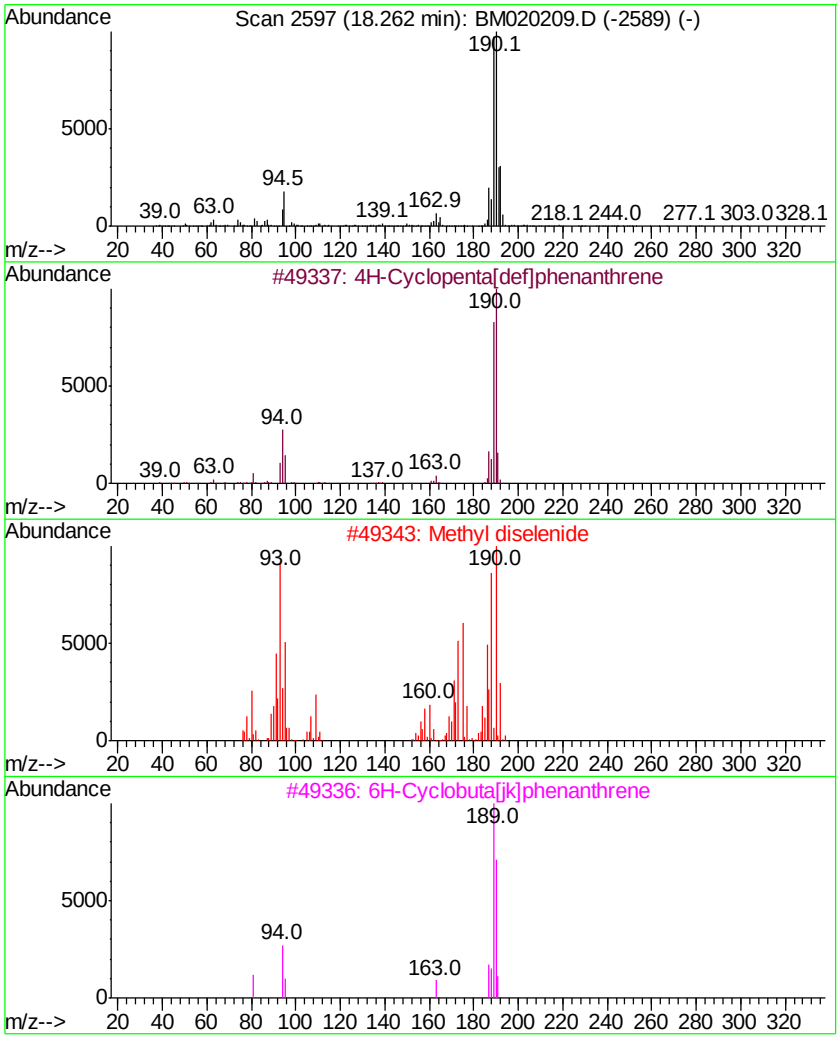
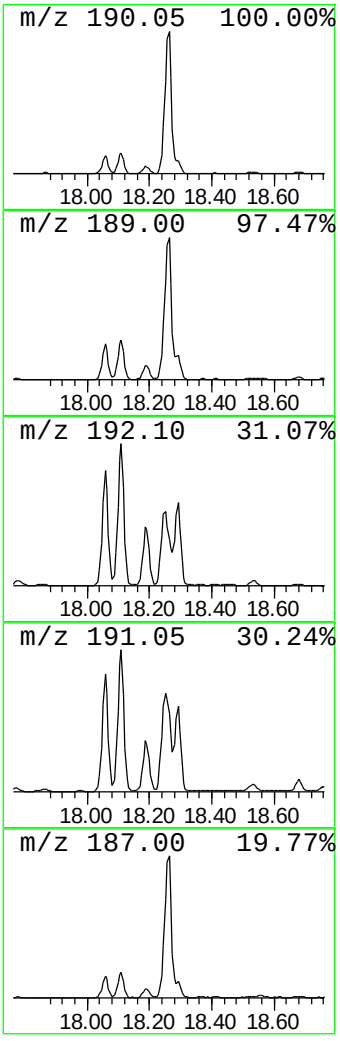
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.26	128.62 ng	13369200	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	49
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	17





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ClientSampleId : PL-02-050719-A

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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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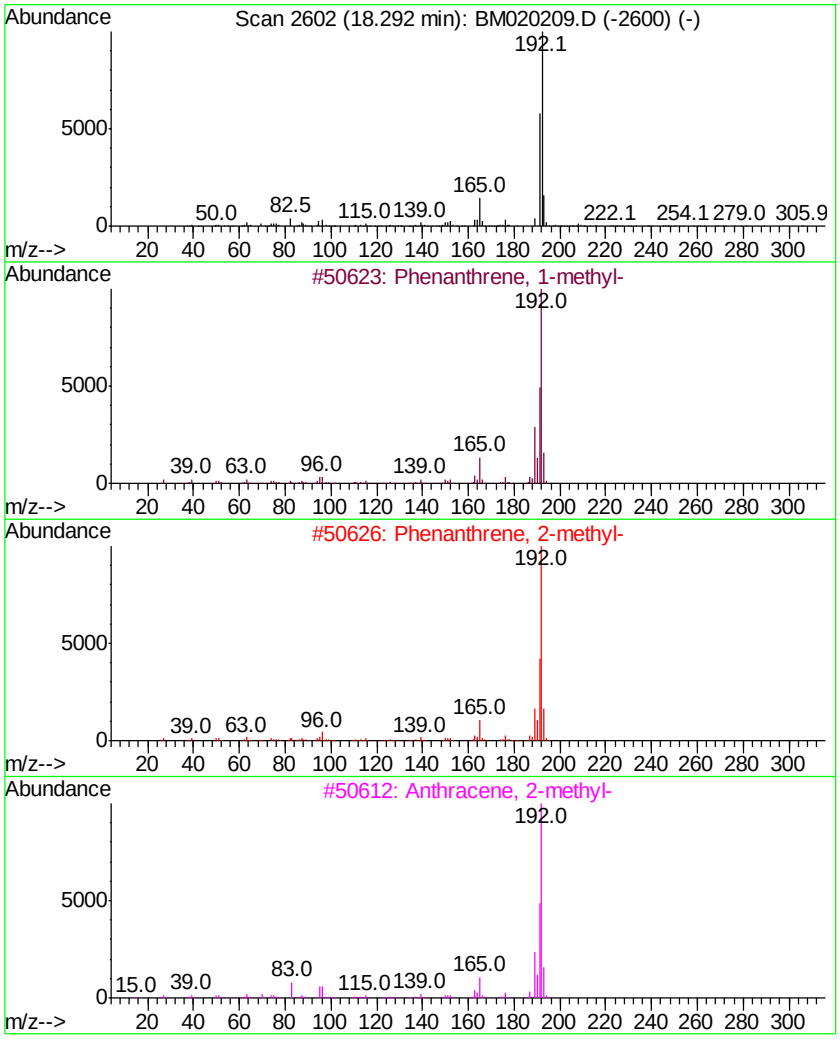
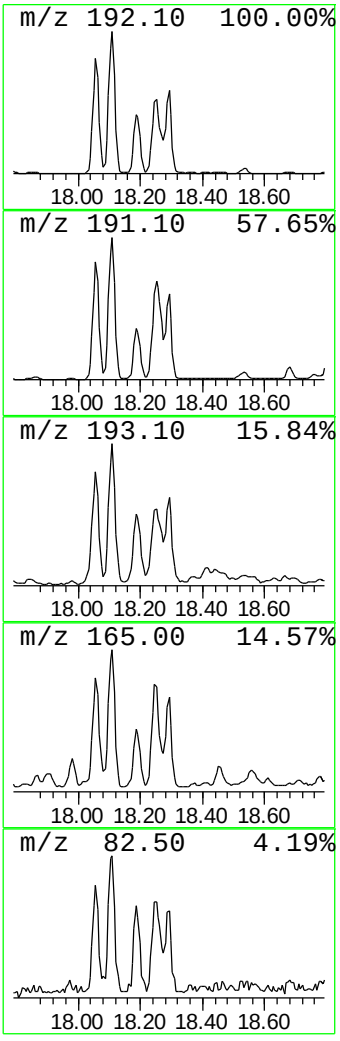
Peak Number 12 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	32.11 ng	3337360	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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Misc :
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Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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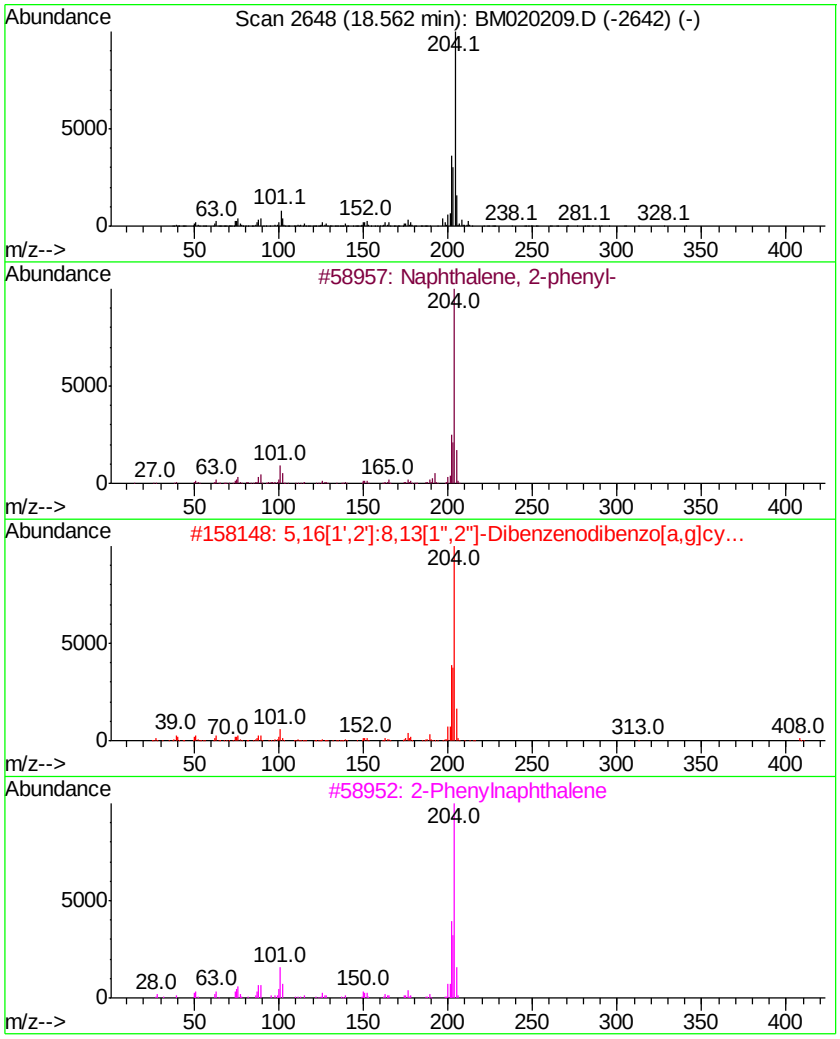
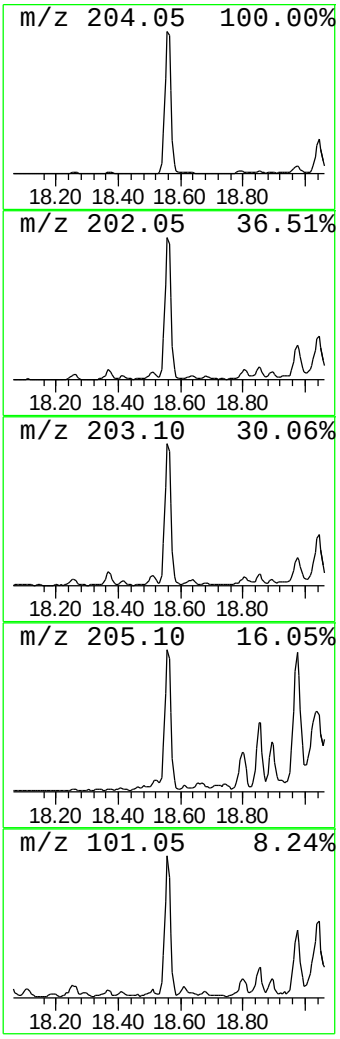
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	41.40 ng	4303670	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	76
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	53
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53





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ClientSampleId : PL-02-050719-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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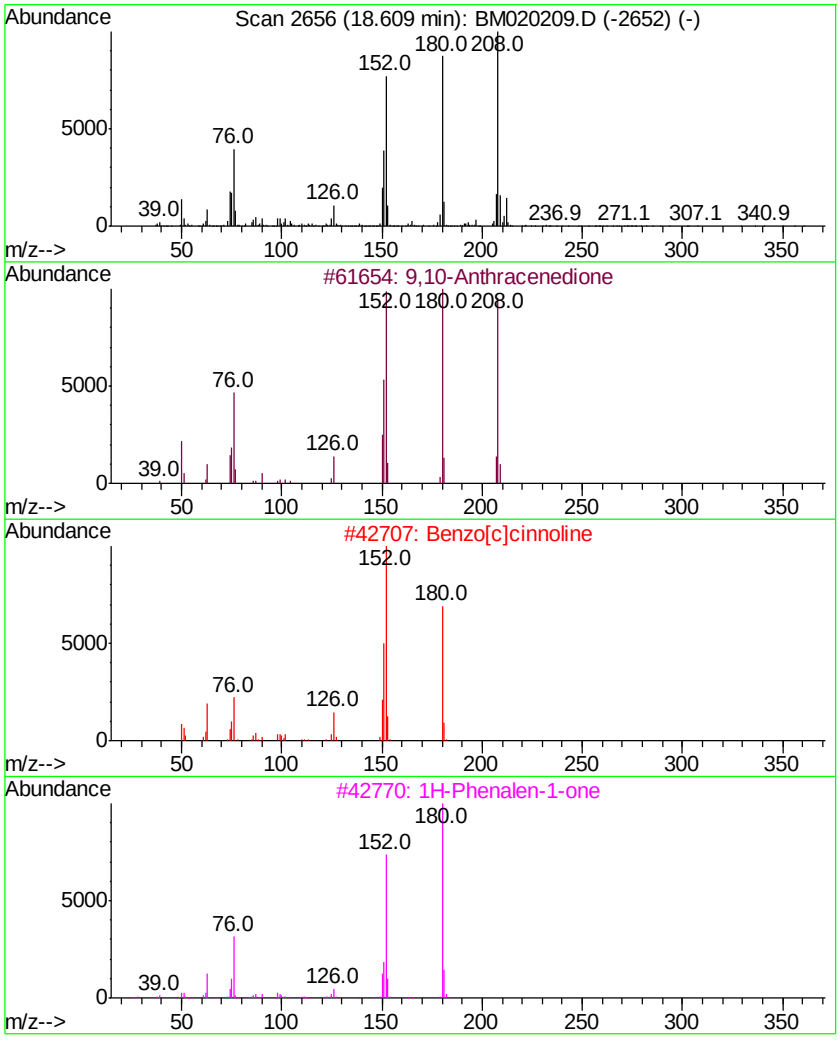
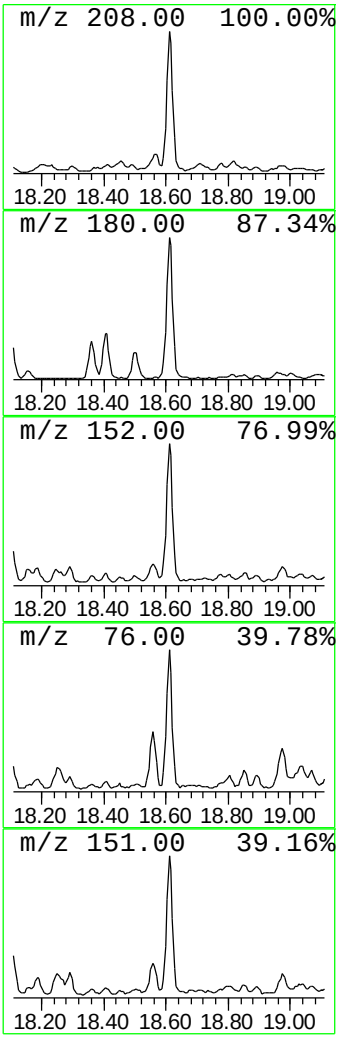
Peak Number 14 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.61	24.68 ng	2565120	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55





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ClientSampleId : PL-02-050719-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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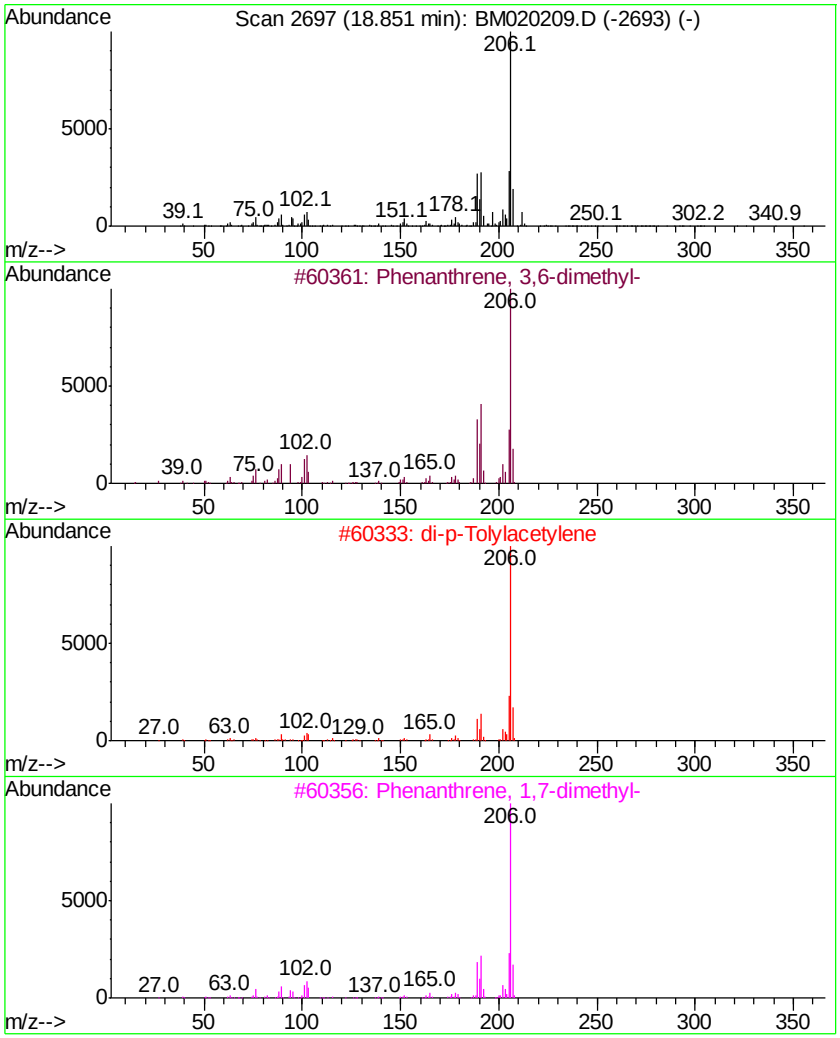
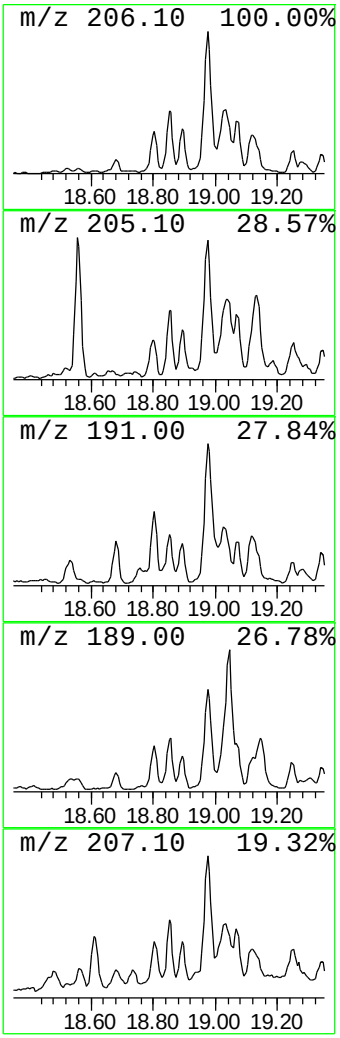
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	15.22 ng	1582360	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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ClientSampleId : PL-02-050719-A

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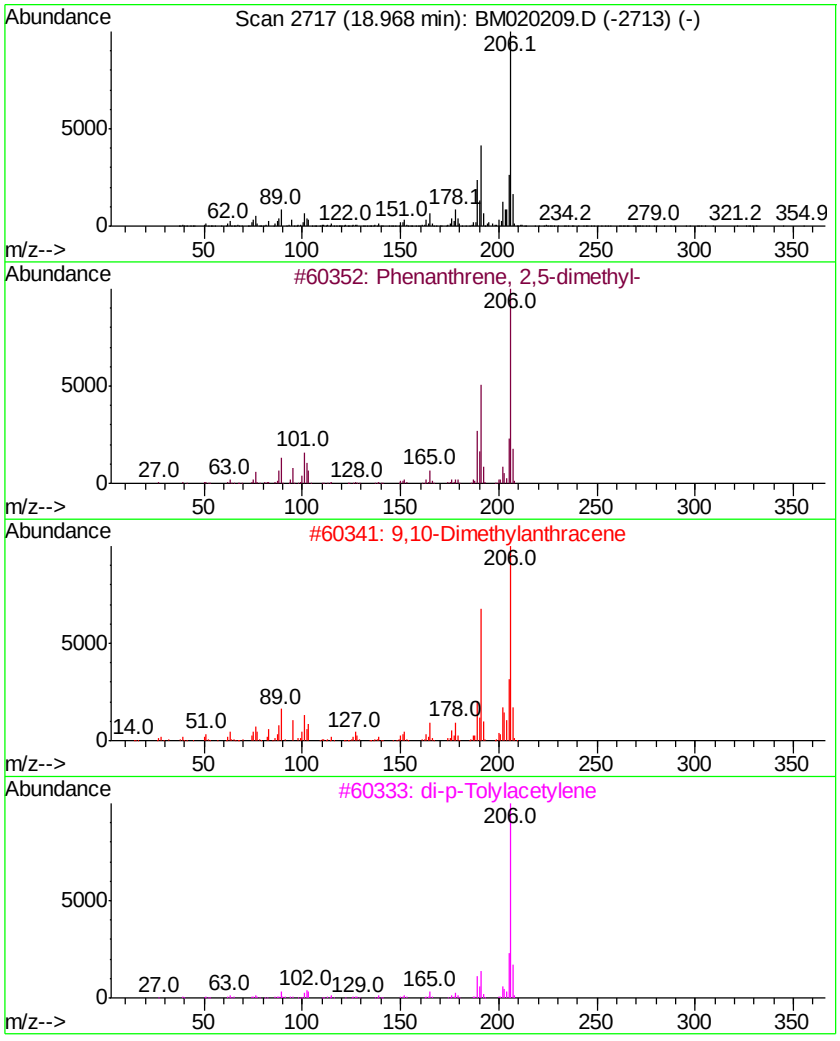
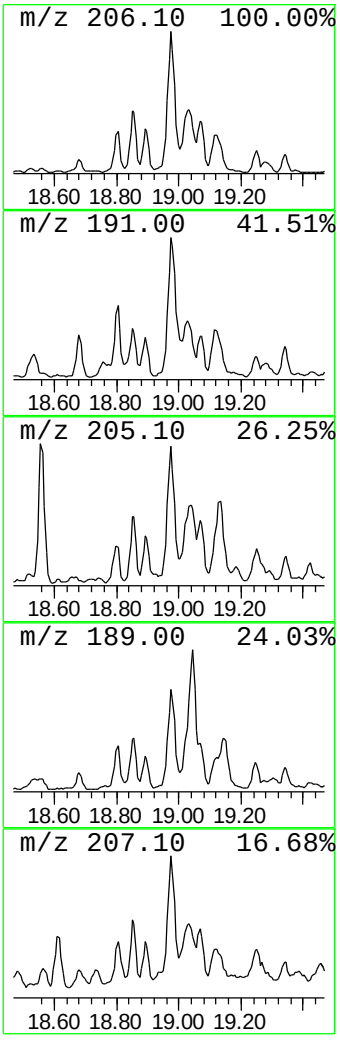
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	40.70 ng	4230910	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





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Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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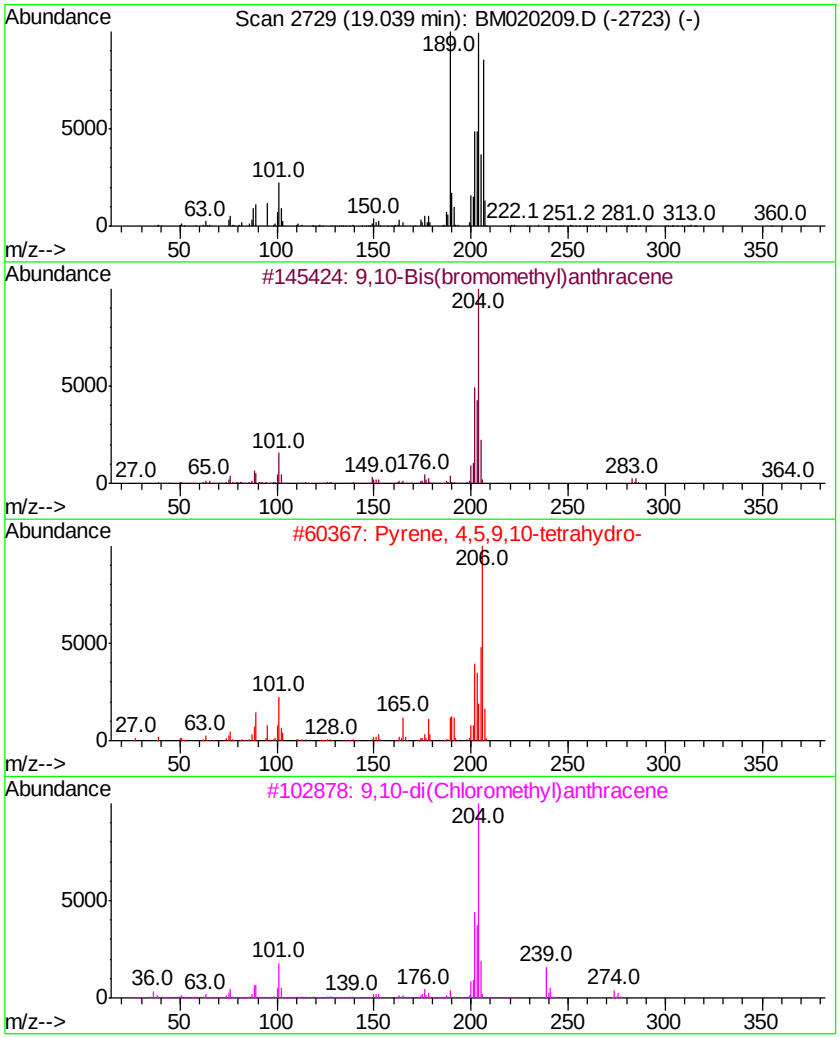
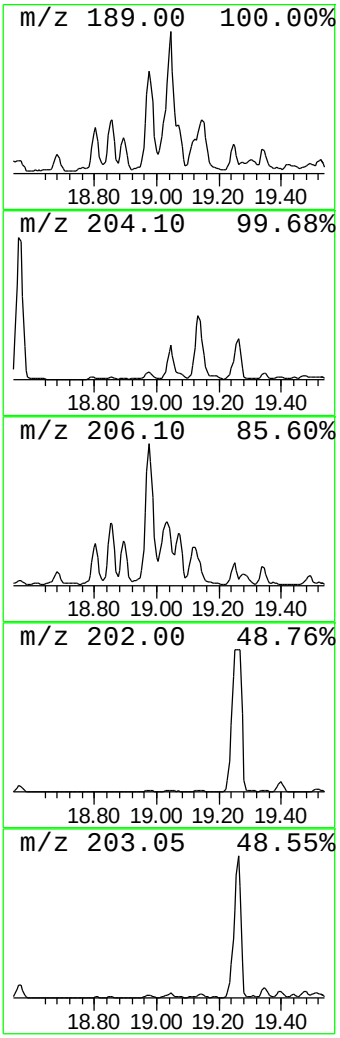
Peak Number 17 9,10-Bis(bromomethyl)anthra... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	27.70 ng	2878910	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	47
3	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	46
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	38





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Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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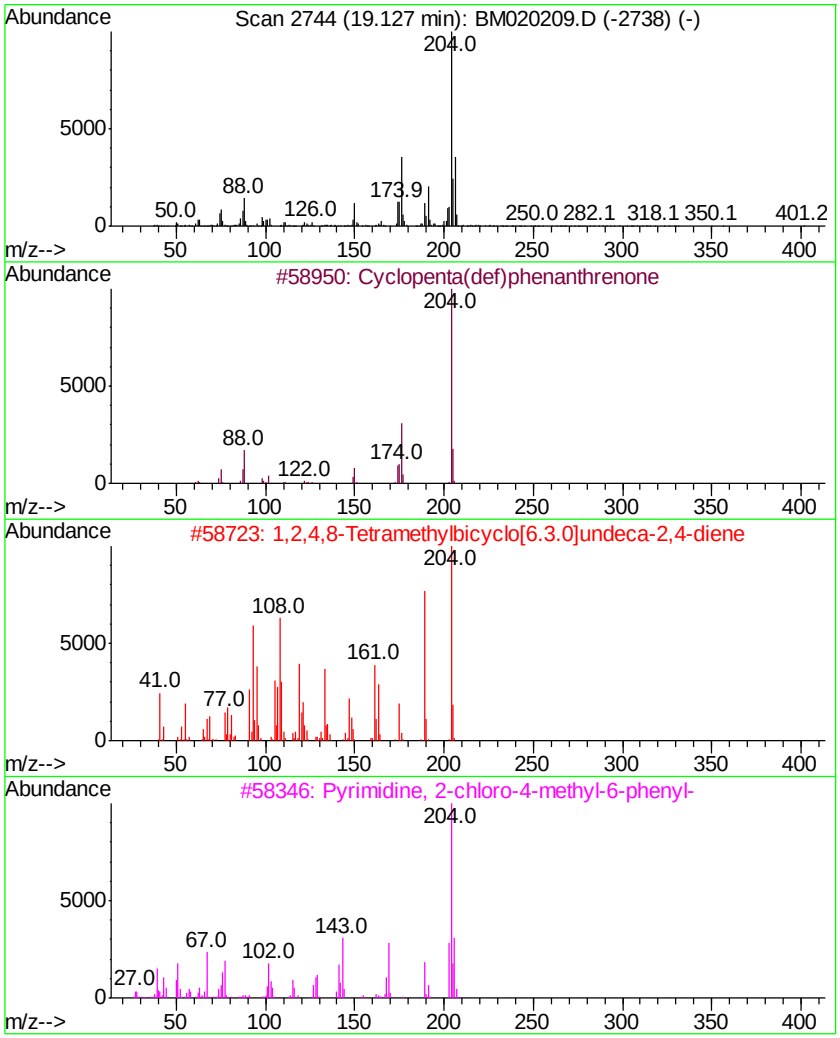
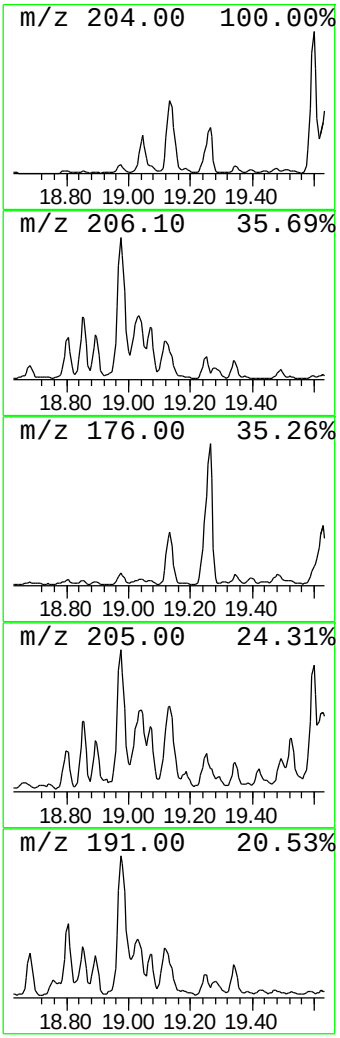
Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	32.20 ng	3347550	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	60
3	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5	[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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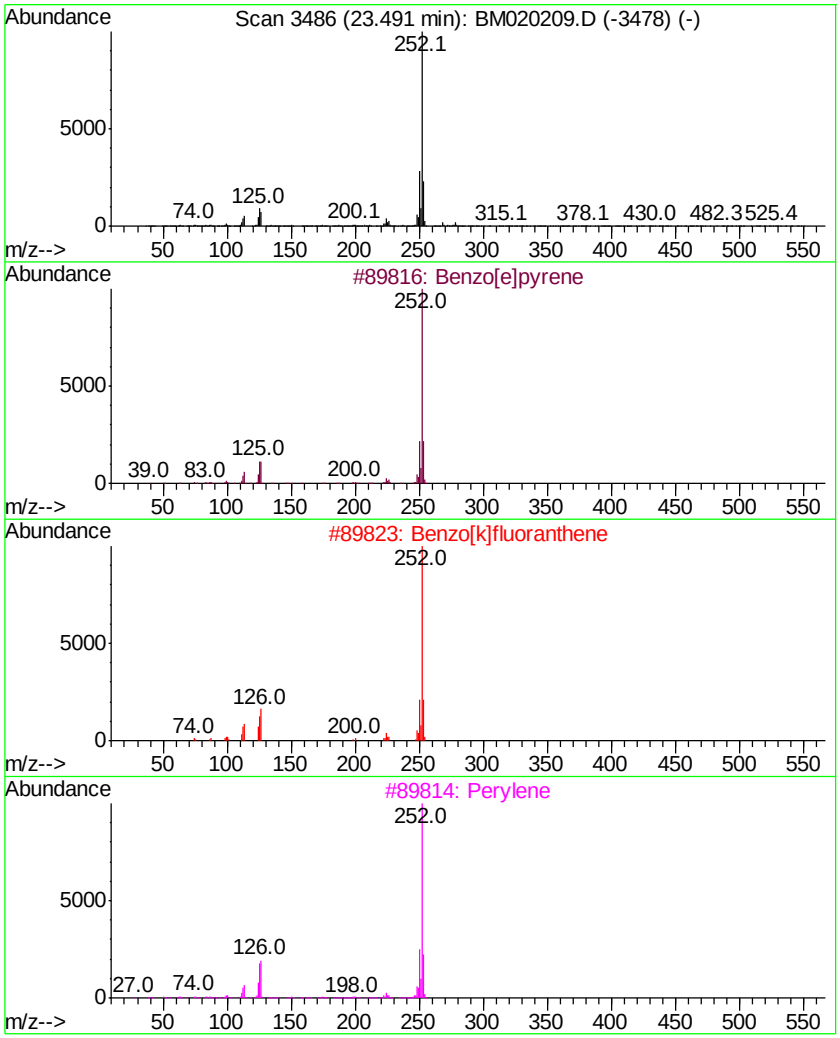
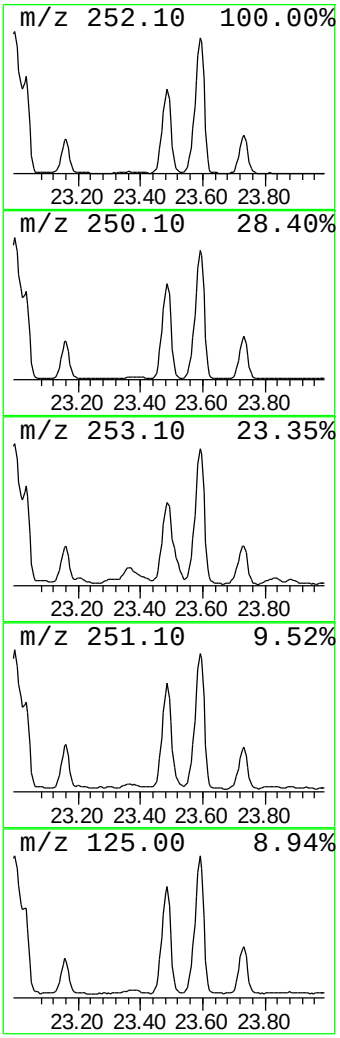
Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.49	44.11 ng	15687600	Perylene-d12	23.68

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[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





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Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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

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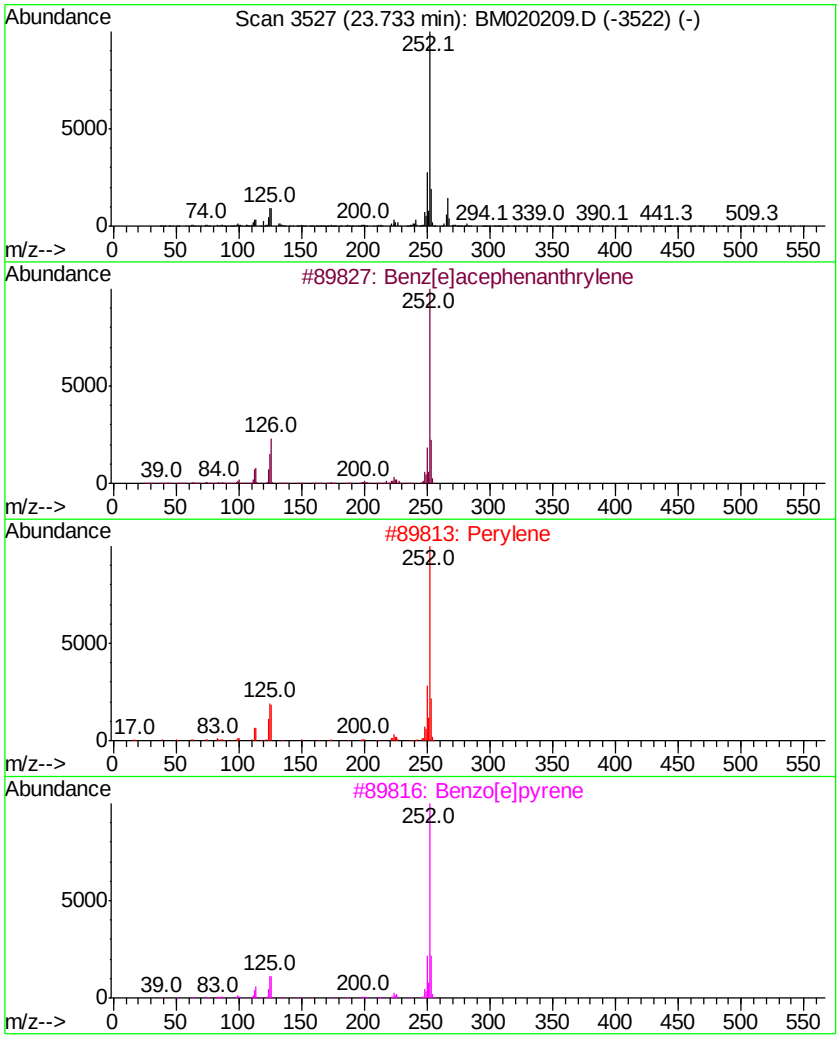
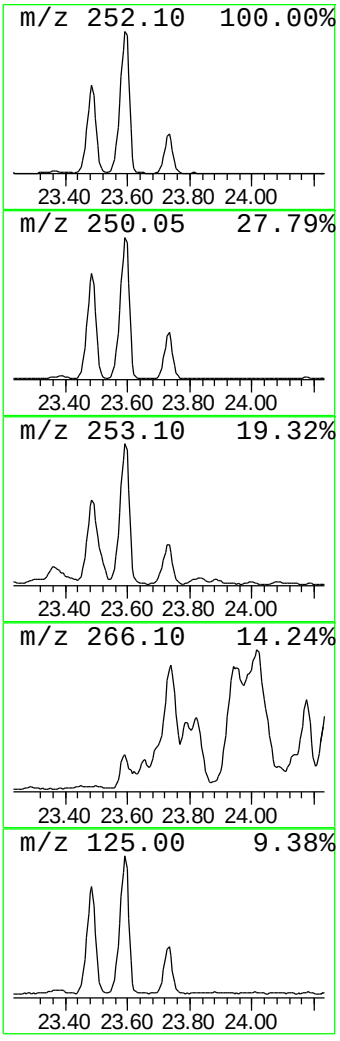
Peak Number 20 Benz[e]acephenanthrylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.73	20.00 ng	7112500	Perylene-d12	23.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[e]pyrene	252	C20H12	000192-97-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM050819\
Data File : BM020209.D
Acq On : 08 May 2019 23:49
Operator : JU/SJ
Sample : K2645-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PL-02-050719-A

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
unknown7.32	7.32	16.5	ng	1122370	1	7.79	1360620	20.0
Naphthalene, 1,6-...	13.60	16.2	ng	1957680	3	14.43	2422210	20.0
Naphthalene, 2,3-...	13.75	20.1	ng	2439570	3	14.43	2422210	20.0
9H-Fluorene, 1-me...	16.48	24.1	ng	2500430	4	17.19	2078920	20.0
Dibenzothiophene	17.00	33.4	ng	3474770	4	17.19	2078920	20.0
Dibenzothiophene,...	17.76	19.2	ng	1992890	4	17.19	2078920	20.0
Dibenzothiophene,...	17.90	14.1	ng	1461890	4	17.19	2078920	20.0
Phenanthrene, 1-m...	18.06	61.7	ng	6410330	4	17.19	2078920	20.0
Phenanthrene, 2-m...	18.11	75.3	ng	7825200	4	17.19	2078920	20.0
Anthracene, 1-met...	18.19	32.5	ng	3376640	4	17.19	2078920	20.0
4H-Cyclopenta[def...	18.26	128.6	ng	13369200	4	17.19	2078920	20.0
Anthracene, 2-met...	18.29	32.1	ng	3337360	4	17.19	2078920	20.0
Naphthalene, 2-ph...	18.56	41.4	ng	4303670	4	17.19	2078920	20.0
9,10-Anthracenedione	18.61	24.7	ng	2565120	4	17.19	2078920	20.0
Phenanthrene, 3,6...	18.85	15.2	ng	1582360	4	17.19	2078920	20.0
Phenanthrene, 2,5...	18.97	40.7	ng	4230910	4	17.19	2078920	20.0
9,10-Bis(bromomet...	19.04	27.7	ng	2878910	4	17.19	2078920	20.0
Cyclopenta(def)ph...	19.13	32.2	ng	3347550	4	17.19	2078920	20.0
Benzo[e]pyrene	23.49	44.1	ng	15687600	6	23.68	7112500	20.0
Benz[e]acephenant...	23.73	20.0	ng	7112500	6	23.68	7112500	20.0