LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.481	773	781	793	rBV	1266531	2019197	1.67%	0.163%
2	10.251	1245	1252	1256	rBV	1747598	2842988	2.34%	0.230%
3	10.298	1256	1260	1270	rVV	1398862	2313012	1.91%	0.187%
4	14.139	1906	1913	1919	rVV	2563931	3931829	3.24%	0.318%
5	14.204	1919	1924	1933	rVV	5551997	8028953	6.62%	0.649%
6	14.545	1972	1982	1992	rBV	2225163	3545871	2.92%	0.287%
7	15.198	2088	2093	2099	rVB	4802287	6609045	5.45%	0.534%
8	15.645	2164	2169	2177	rVV	955728	1932798	1.59%	0.156%
9	16.204	2252	2264	2269	rVV3	741202	1832650	1.51%	0.148%
10	16.557	2319	2324	2332	rVB	1328311	1937491	1.60%	0.157%
11	16.716	2344	2351	2362	rVB	3649294	5641413	4.65%	0.456%
12	16.898	2372	2382	2385	rBV	2725887	4652280	3.84%	0.376%
13	16.951	2385	2391	2396	rVV2	46973834	81208608	66.97%	6.563%
14	17.004	2396	2400	2401	rVV2	1882581	2512147	2.07%	0.203%
15	17.033	2401	2405	2411	rVB	15707199	21020689	17.33%	1.699%
16	17.092	2411	2415	2425	rVB	1575599	2279172	1.88%	0.184%
17	17.304	2441	2451	2456	rBV2	7280108	11987625	9.89%	0.969%
18	17.421	2465	2471	2477	rBV4	1069536	1676041	1.38%	0.135%
19	17.774	2521	2531	2535	rBV	4566934	6872920	5.67%	0.555%
20	17.821	2535	2539	2546	rVB	8616470	11425889	9.42%	0.923%
21	17.904	2546	2553	2558	rBV	2781875	4067942	3.35%	0.329%
22	17.968	2558	2564	2568	rBV2	10471551	17251383	14.23%	1.394%
23	18.004	2568	2570	2578	rVB	5065492	6014627	4.96%	0.486%
24	18.280	2612	2617	2621	rVV	4646784	6268484	5.17%	0.507%
25	18.333	2621	2626	2631	rVV	4211081	5726367	4.72%	0.463%
26	18.527	2654	2659	2664	rVV2	1390451	2052304	1.69%	0.166%
27	18.704	2683	2689	2693	rBV2	1606950	2981787	2.46%	0.241%
28	18.768	2697	2700	2703	rVV	1365866	2285340	1.88%	0.185%
29	18.798	2703	2705	2710	rVV	1784685	2363236	1.95%	0.191%
30	18.857	2710	2715	2722	rVV	1954263	3646738	3.01%	0.295%
31	18.992	2728	2738	2742	rVV2	52338555	104530578	86.20%	8.448%
32	19.074	2749	2752	2757	rVV	1774812	2401269	1.98%	0.194%
33	19.215	2770	2776	2781	rVB	3325078	5121239	4.22%	0.414%
34	19.357	2788	2800	2805	rBV4	49525363	121263676	100.00%	9.801%

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Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Title : SVOA CALIBRATION

35	19.410	2805	2809	2816	rVB2	3379377	5903105	4.87%	0.477%
36	19.521	2822	2828	2833	rBV	5011188	6795255	5.60%	0.549%
37	19.580	2833	2838	2843	rVB	4232793	6078468	5.01%	0.491%
38	19.662	2845	2852	2853	rBV	3470245	5461717	4.50%	0.441%
39	19.721	2859	2862	2866	rVB	2016253	2238022	1.85%	0.181%
40	19.804	2870	2876	2878	rVV3	3309859	5489324	4.53%	0.444%
41	19.845	2878	2883	2887	rVB	11327072	16045774	13.23%	1.297%
42	19.939	2895	2899	2903	rVV	8956423	11507306	9.49%	0.930%
43	19.998	2903	2909	2913	rVV2	5940718	10087331	8.32%	0.815%
44	20.033	2913	2915	2920	rVB	2899782	3519963	2.90%	0.284%
45	20.080	2920	2923	2927	rVB	1752411	2119136	1.75%	0.171%
46	20.139	2928	2933	2936	rBV	2620820	3385083	2.79%	0.274%
47	20.186	2936	2941	2945	rBV3	2967433	4332895	3.57%	0.350%
48	20.268	2950	2955	2958	rVV4	651340	1505439	1.24%	0.122%
49	20.409	2973	2979	2980	rBV4	1042820	1718684	1.42%	0.139%
50	20.433	2981	2983	2986	rVV3	1474734	2222455	1.83%	0.180%
51	20.468	2986	2989	2993	rVV3	1647326	2682531	2.21%	0.217%
52	20.557	2999	3004	3007	rBV2	1409325	2247408	1.85%	0.182%
53	20.598	3007	3011	3017	rVB	4489563	6684850	5.51%	0.540%
54	20.757	3031	3038	3041	rBV2	7691215	11298450	9.32%	0.913%
55	20.798	3041	3045	3048	rVV	8054410	10625416	8.76%	0.859%
56	20.833	3048	3051	3057	rVV2	7072953	13623235	11.23%	1.101%
57	20.898	3058	3062	3071	rVB	6205698	9034601	7.45%	0.730%
58	20.998	3071	3079	3086	rBV	2607293	7322391	6.04%	0.592%
59	21.109	3088	3098	3102	rVV4	43616404	81720528	67.39%	6.605%
60	21.162	3102	3107	3115	rVV2	40292240	60262576	49.70%	4.870%
61	21.233	3116	3119	3121	rVV3	1144367	1472454	1.21%	0.119%
62	21.268	3121	3125	3131	rVV	10607510	14175693	11.69%	1.146%
63	21.321	3131	3134	3138	rVV4	2276675	3928361	3.24%	0.317%
64	21.380	3140	3144	3147	rVV	4020955	5437800	4.48%	0.439%
65	21.427	3147	3152	3157	rVV2	6011376	9520220	7.85%	0.769%
66	21.474	3157	3160	3163	rVB3	1436797	1714690	1.41%	0.139%
67	21.598	3177	3181	3185	rVV2	2171925	3612545	2.98%	0.292%
68	21.656	3185	3191	3194	rVV	6334771	10448358	8.62%	0.844%
69	21.704	3194	3199	3206	rVV2	3758941	7714716	6.36%	0.624%
70	21.768	3207	3210	3212	rVV2	2336271	3301740	2.72%	0.267%
71	21.798	3212	3215	3219	rVV2	3597195	5558041	4.58%	0.449%

LSC Area Percent Report

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Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Title : SVOA CALIBRATION

72	21.845	3219	3223	3225	rVV	4470486	6530075	5.39%	0.528%
73	21.874	3225	3228	3233	rVV3	5405231	7576749	6.25%	0.612%
74	21.933	3233	3238	3247	rVV3	3434776	6604837	5.45%	0.534%
75	22.121	3265	3270	3274	rBV2	3067045	5199851	4.29%	0.420%
76	22.162	3274	3277	3282	rVB3	1857364	2791037	2.30%	0.226%
77	22.392	3311	3316	3326	rBV2	2869018	5582036	4.60%	0.451%
78	22.486	3327	3332	3339	rBV5	705382	1894209	1.56%	0.153%
79	22.651	3350	3360	3363	rBV2	31975309	77475055	63.89%	6.262%
80	22.680	3363	3365	3370	rVV	21888597	26894253	22.18%	2.174%
81	22.739	3370	3375	3379	rVV2	1607022	3364910	2.77%	0.272%
82	22.798	3379	3385	3389	rVB	6919457	10642985	8.78%	0.860%
83	22.921	3401	3406	3408	rBV3	2133191	3981220	3.28%	0.322%
84	23.009	3414	3421	3427	rBV4	1789807	5341596	4.40%	0.432%
85	23.092	3427	3435	3444	rVV	17879979	37650457	31.05%	3.043%
86	23.192	3444	3452	3458	rVV2	30044833	58282684	48.06%	4.710%
87	23.268	3460	3465	3468	rVV	3338193	6180815	5.10%	0.500%
88	23.315	3468	3473	3480	rVB	9710817	18407361	15.18%	1.488%
89	23.515	3503	3507	3511	rBV2	991327	1774265	1.46%	0.143%
90	23.786	3548	3553	3560	rVB3	1832377	3741778	3.09%	0.302%
91	24.080	3598	3603	3616	rVB	2371080	5926640	4.89%	0.479%
92	24.297	3637	3640	3653	rVB5	1010752	2534449	2.09%	0.205%
93	24.744	3711	3716	3722	rBV4	1137125	2599167	2.14%	0.210%
94	25.168	3784	3788	3796	rVB	1336559	3172798	2.62%	0.256%
95	25.415	3819	3830	3838	rVB	15278585	44490296	36.69%	3.596%
96	25.497	3839	3844	3852	rVB	1252689	2889837	2.38%	0.234%
97	25.639	3861	3868	3876	rBV	2805118	7005634	5.78%	0.566%
98	25.727	3877	3883	3895	rBV2	2054871	6323076	5.21%	0.511%
99	26.062	3929	3940	3955	rVB	9889492	31202438	25.73%	2.522%
100	26.391	3989	3996	4012	rVB2	2943808	10203673	8.41%	0.825%

Sum of corrected areas: 1237306330

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
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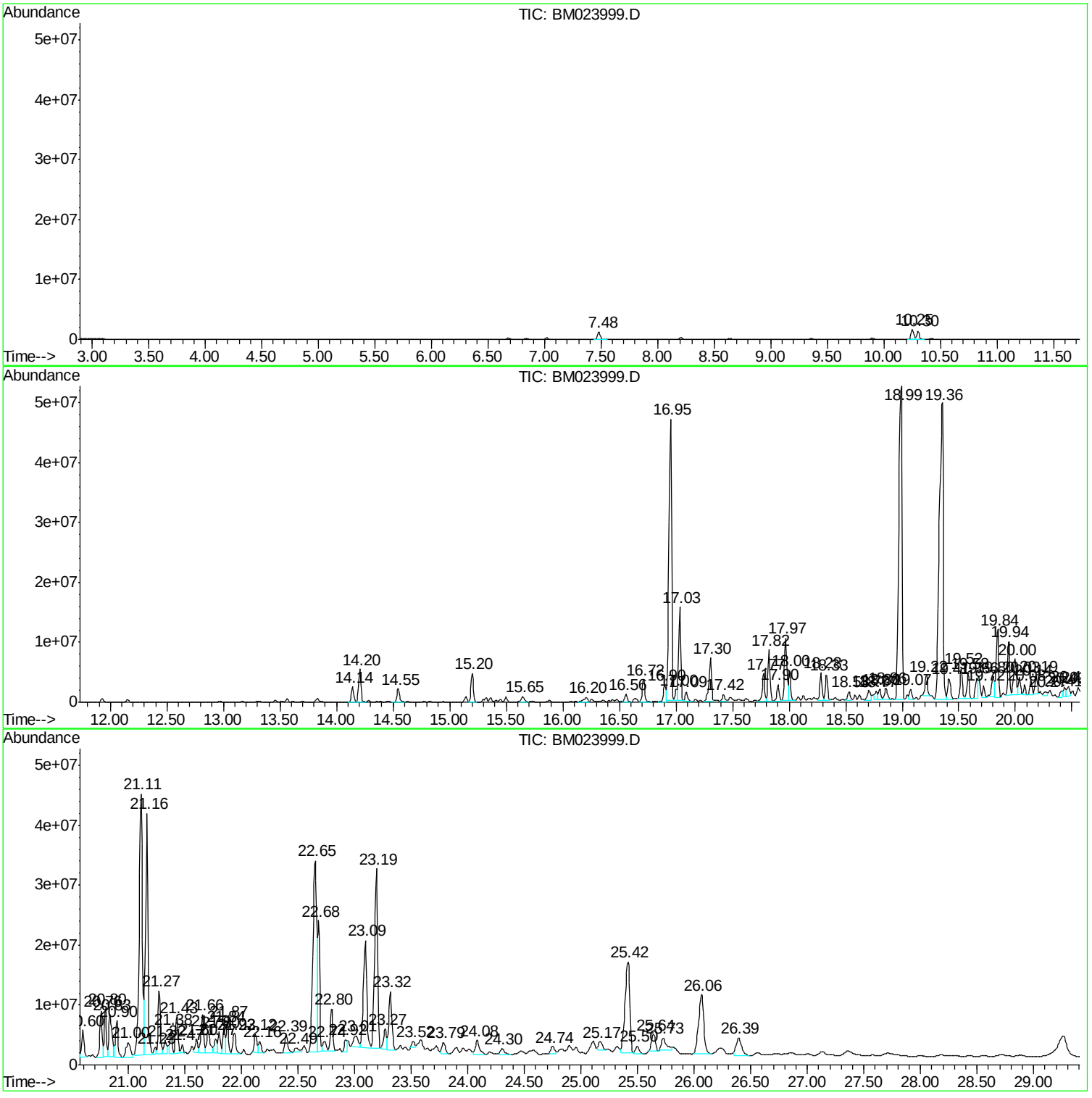
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

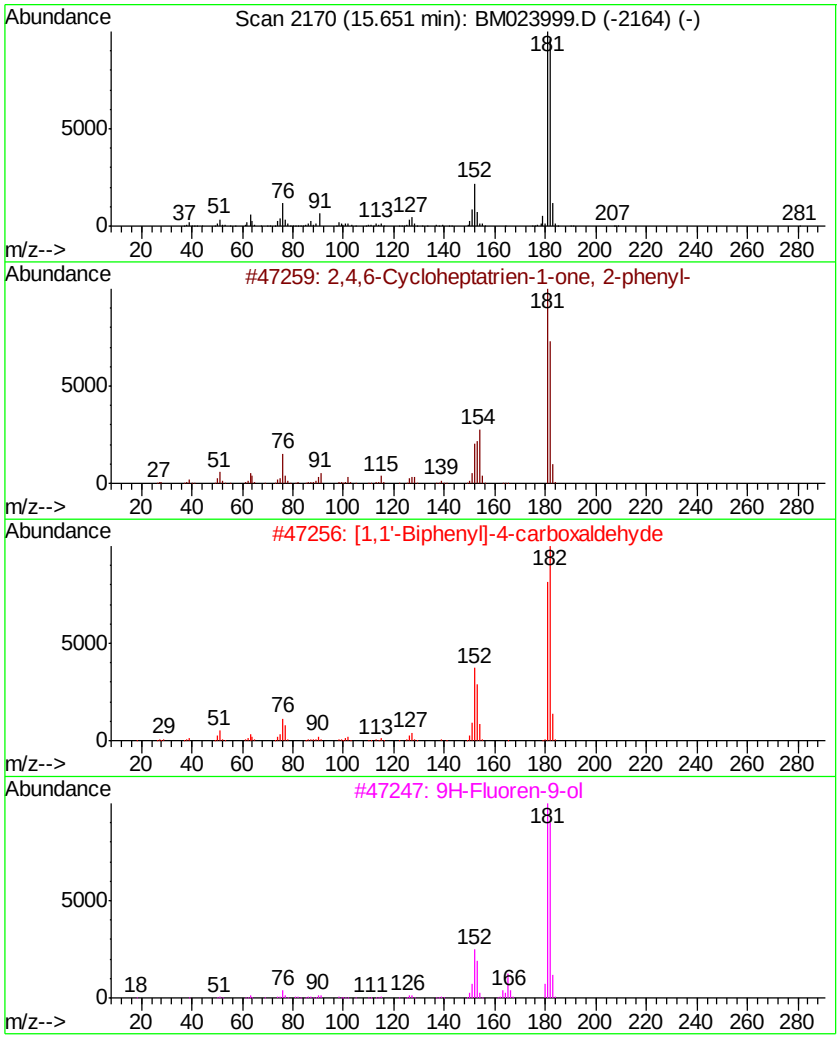
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

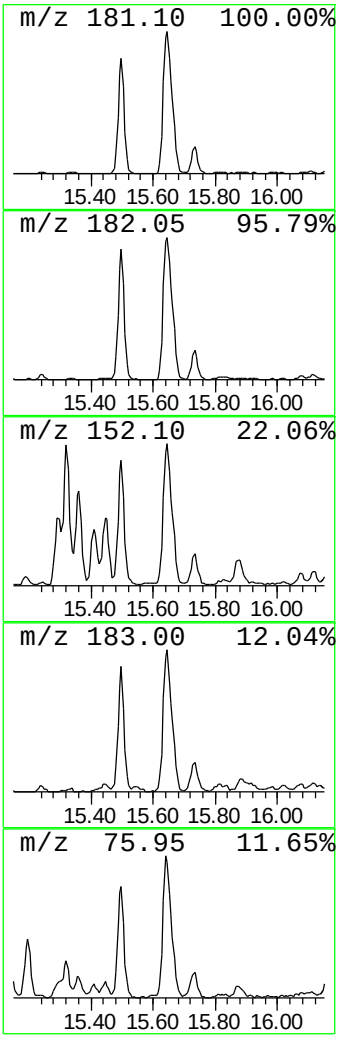
****

Peak Number 1 2,4,6-Cycloheptatrien-1-one... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.65	8.31 ng/ul	1932800	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

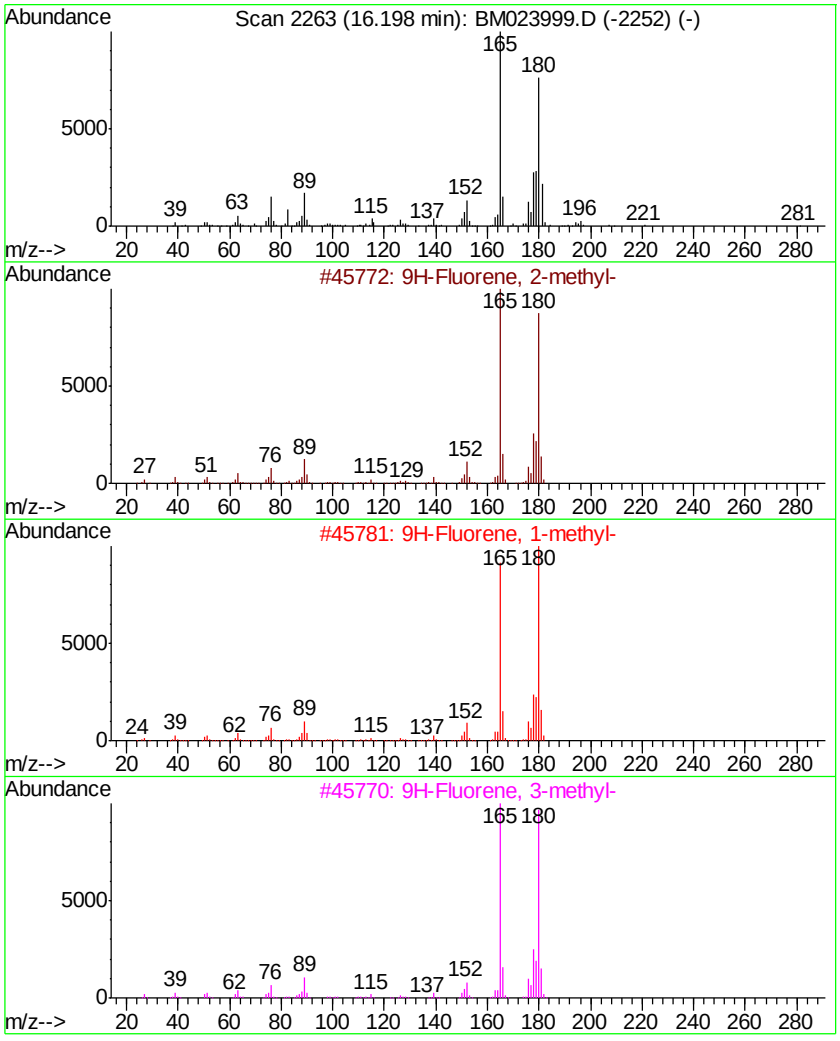
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

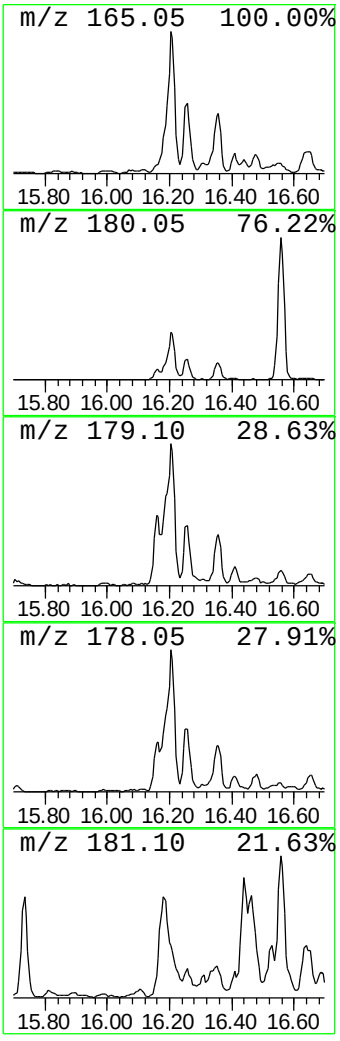
****

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.20	7.88 ng/ul	1832650	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	92
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
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Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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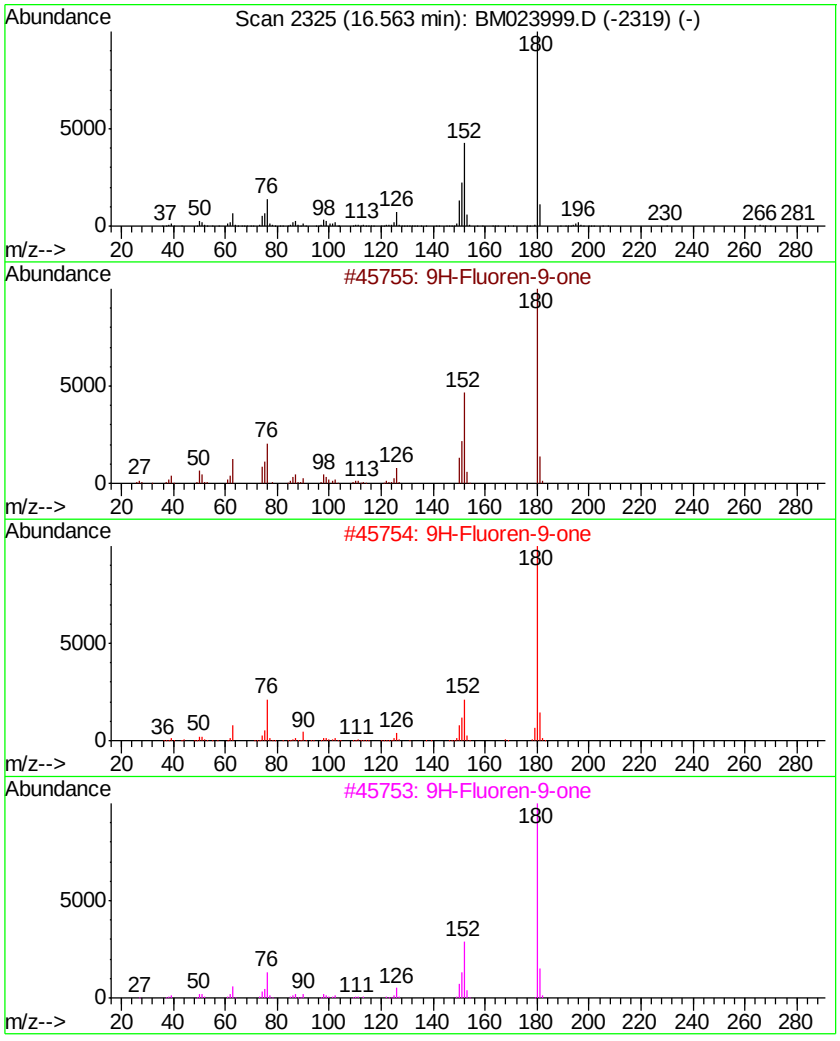
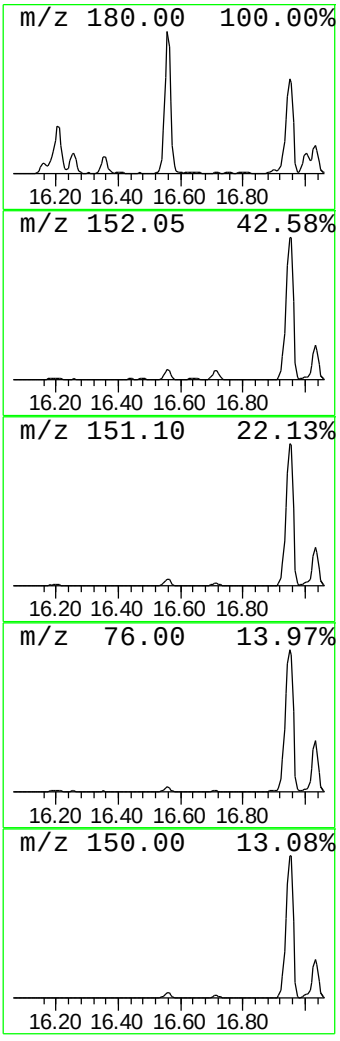
Peak Number 3 9H-Fluoren-9-one Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	8.33 ng/ul	1937490	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

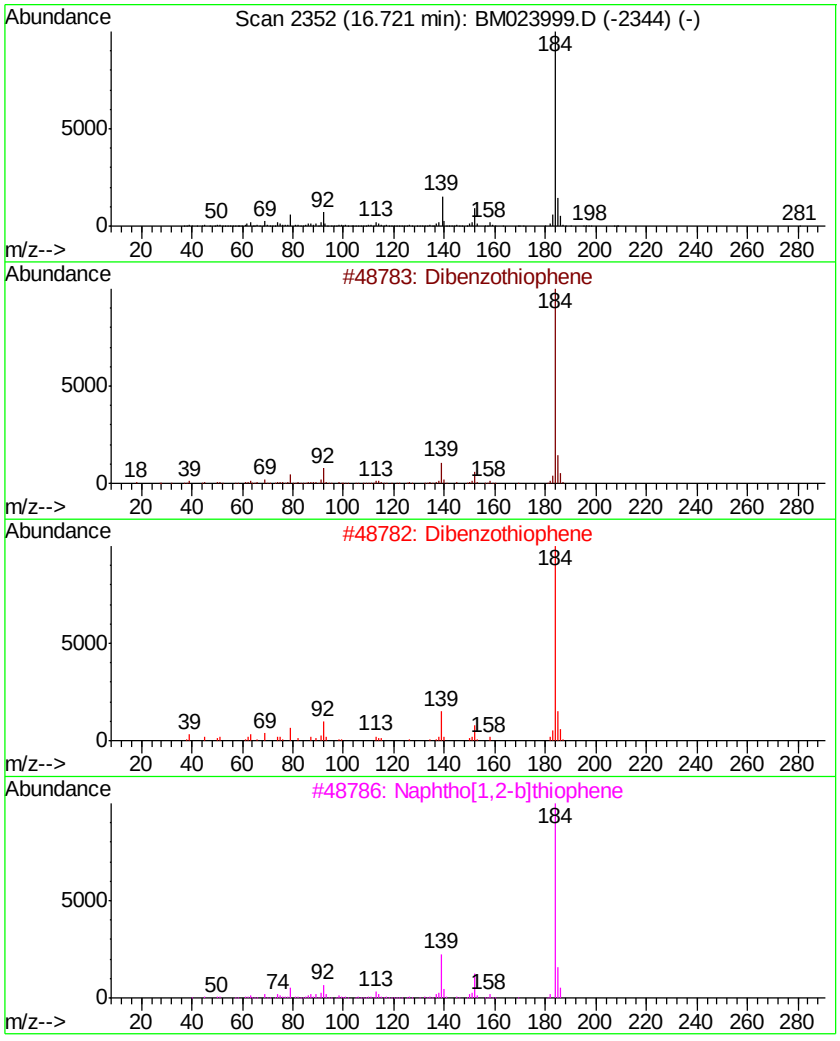
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

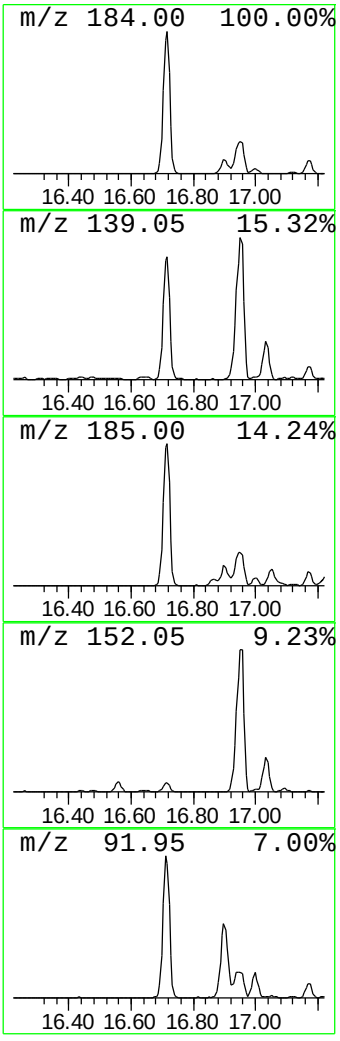
****

Peak Number 4 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.72	24.25 ng/ul	5641410	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

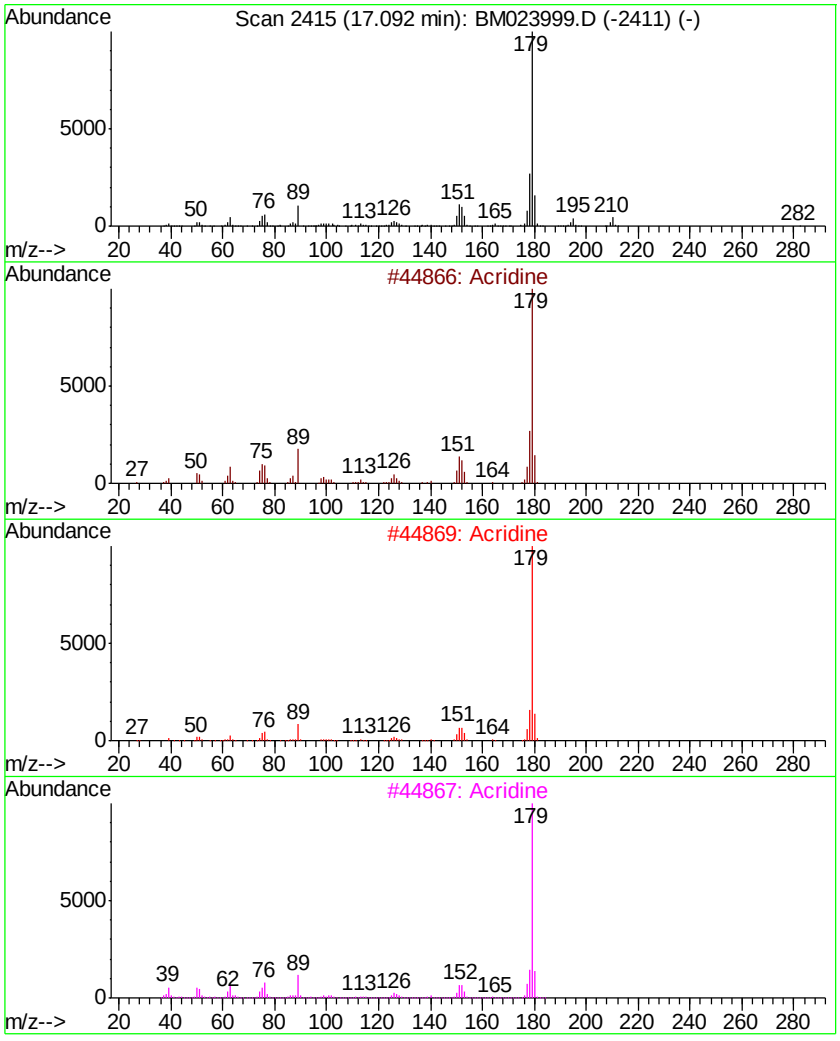
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

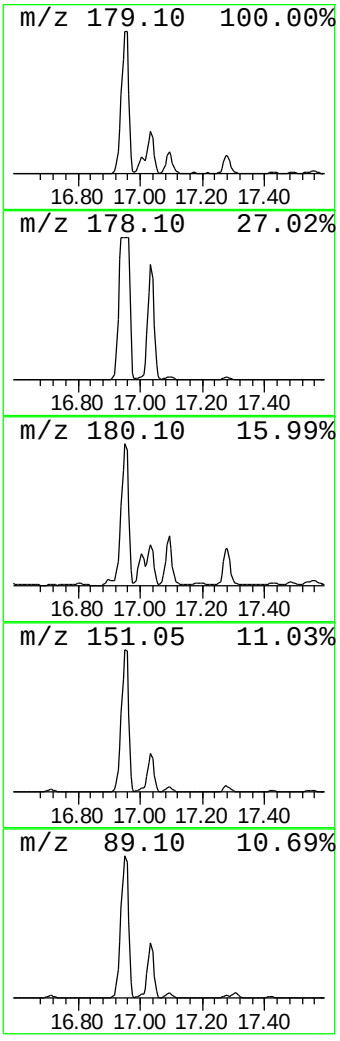
****

Peak Number 5 Acridine Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	9.80 ng/ul	2279170	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	95
2	Acridine	179	C13H9N	000260-94-6	94
3	Acridine	179	C13H9N	000260-94-6	94
4	Acridine	179	C13H9N	000260-94-6	93
5	Benzo[f]quinoline	179	C13H9N	000085-02-9	91





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Operator : JU
Sample : K4649-01 5X
Misc :
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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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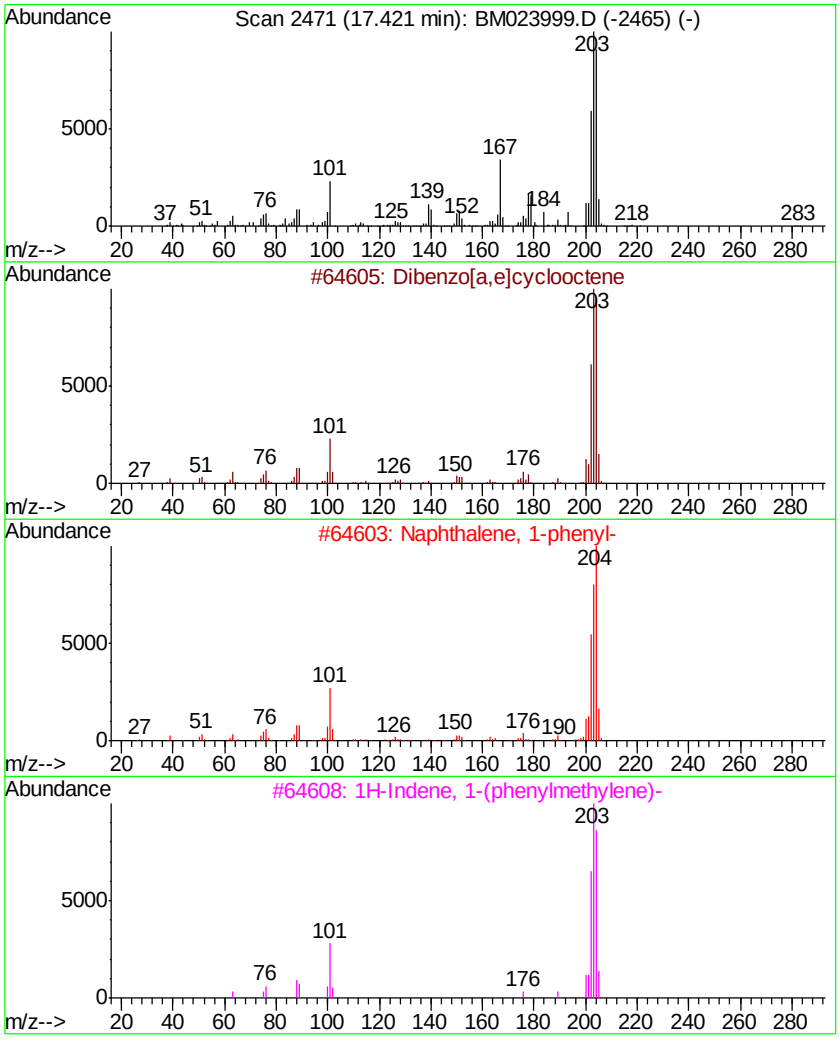
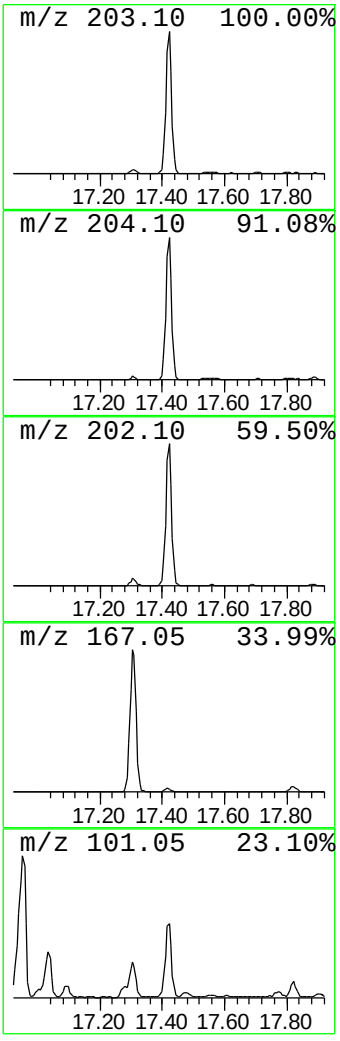
Peak Number 6 Dibenzo[a,e]cyclooctene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.42	7.21 ng/ul	1676040	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	96
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	96
3	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	92
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	90
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	86





Library Search Compound Report

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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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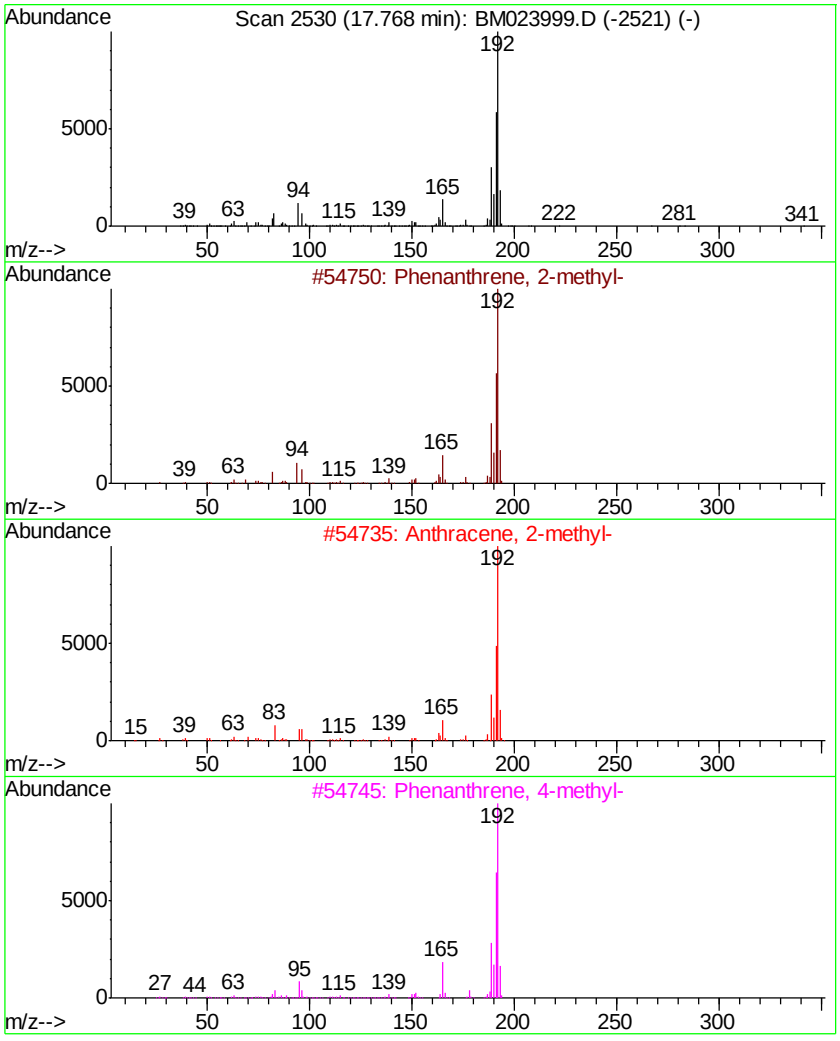
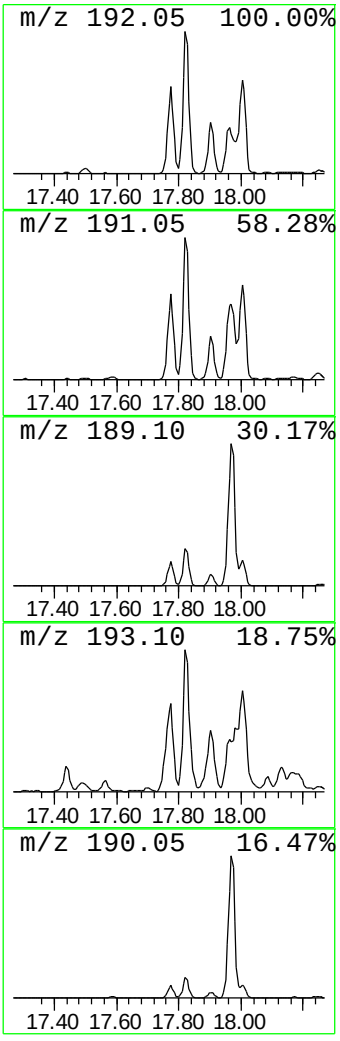
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.77	29.55 ng/ul	6872920	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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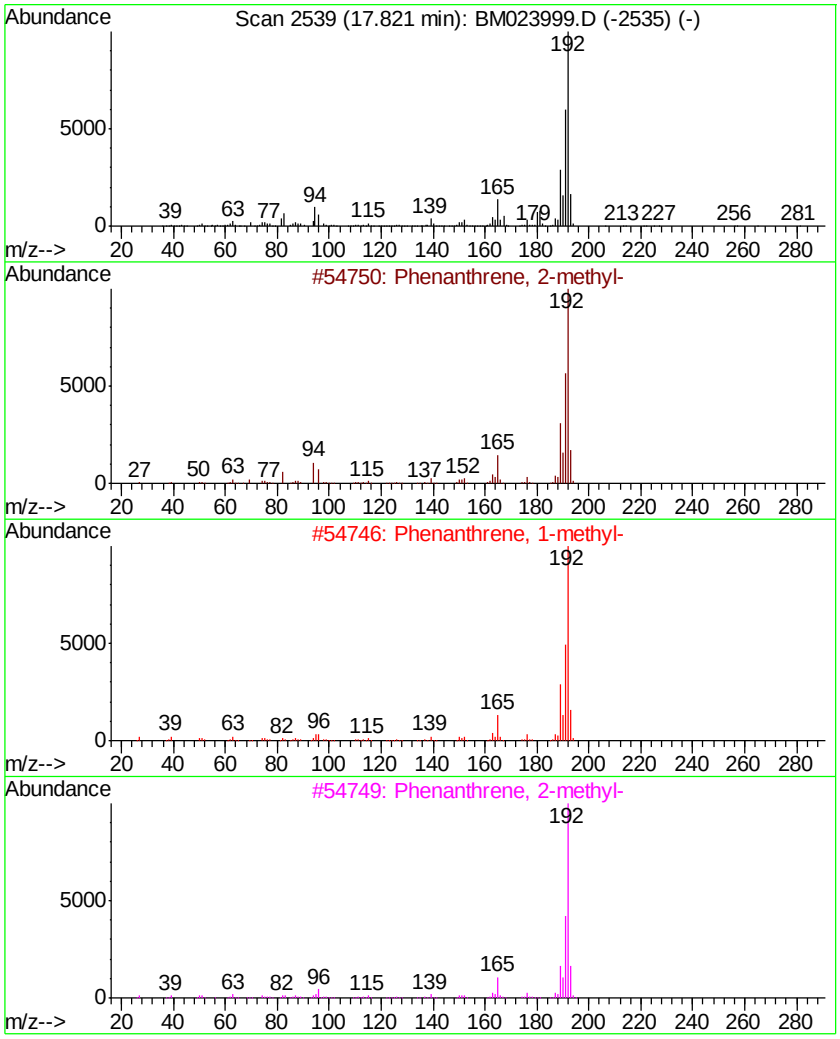
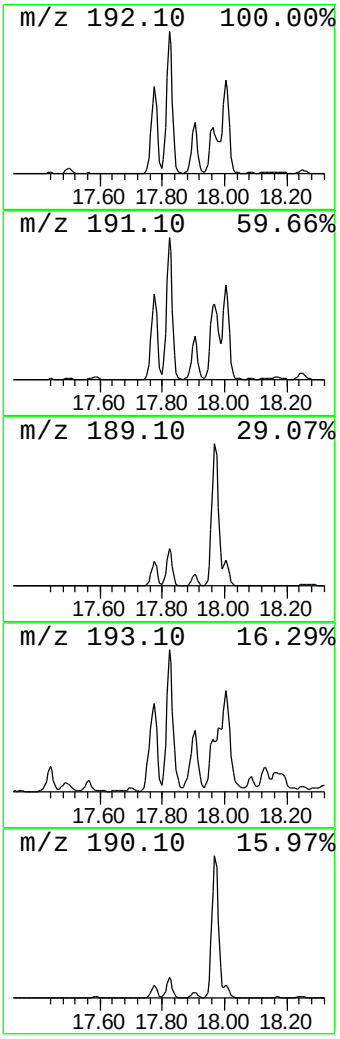
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	49.12 ng/ul	11425900	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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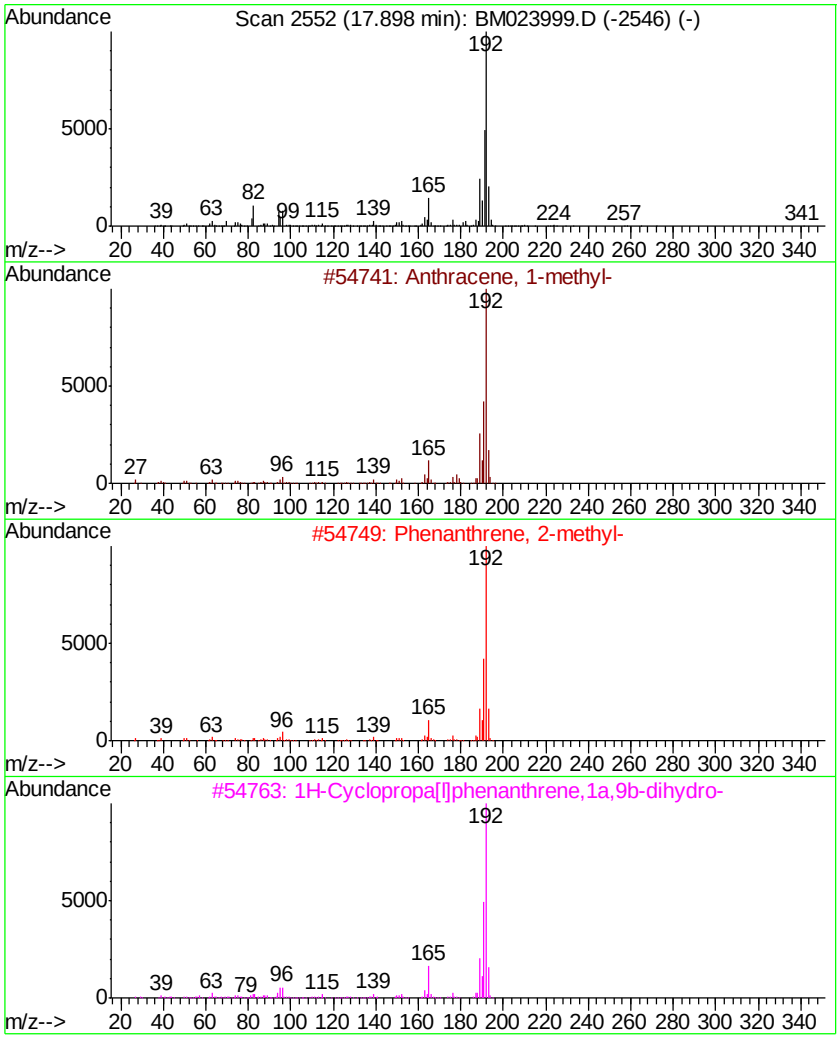
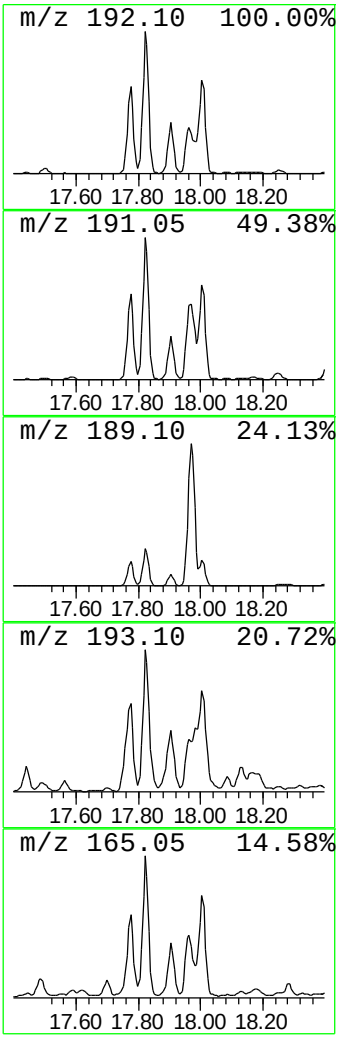
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.90	17.49 ng/ul	4067940	Phenanthrene-d10	16.90

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





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Quant Title : SVOA CALIBRATION

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

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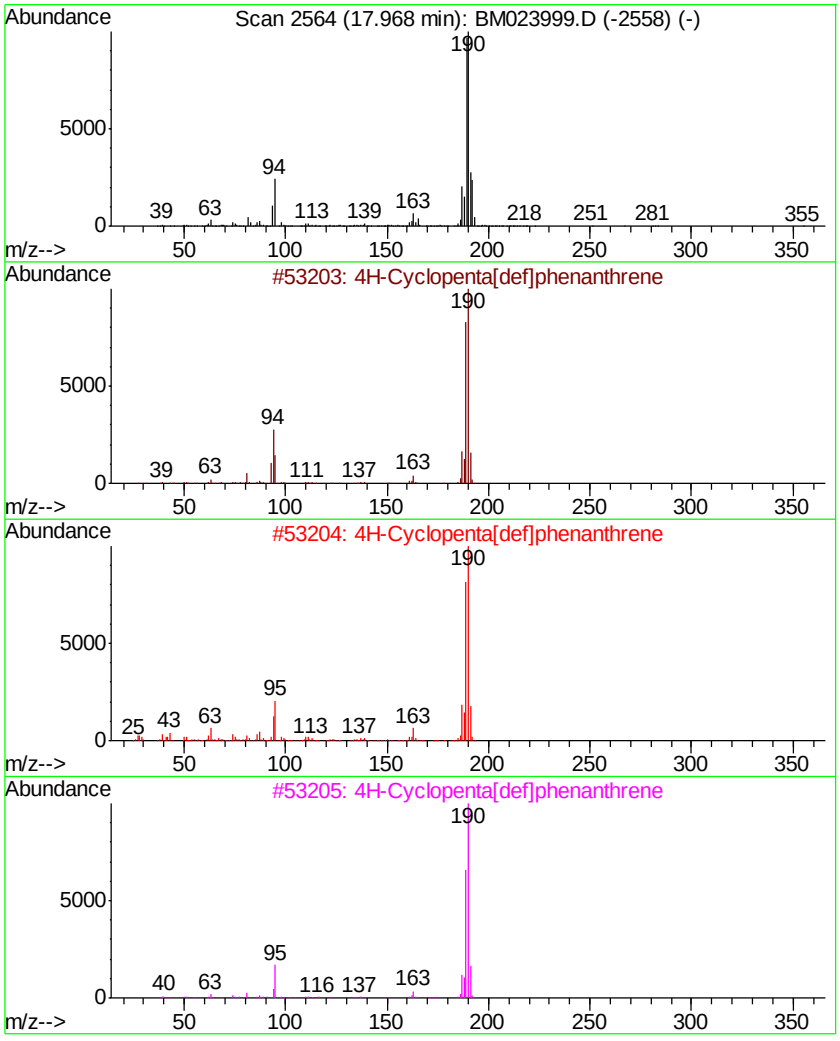
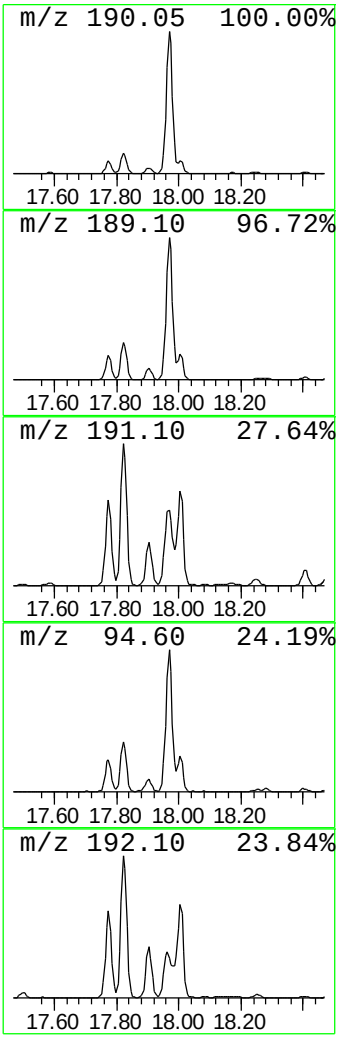
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	74.16 ng/ul	17251400	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
5	Methyl diselenide	190	C2H6Se2	007101-31-7	49





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Quant Title : SVOA CALIBRATION

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

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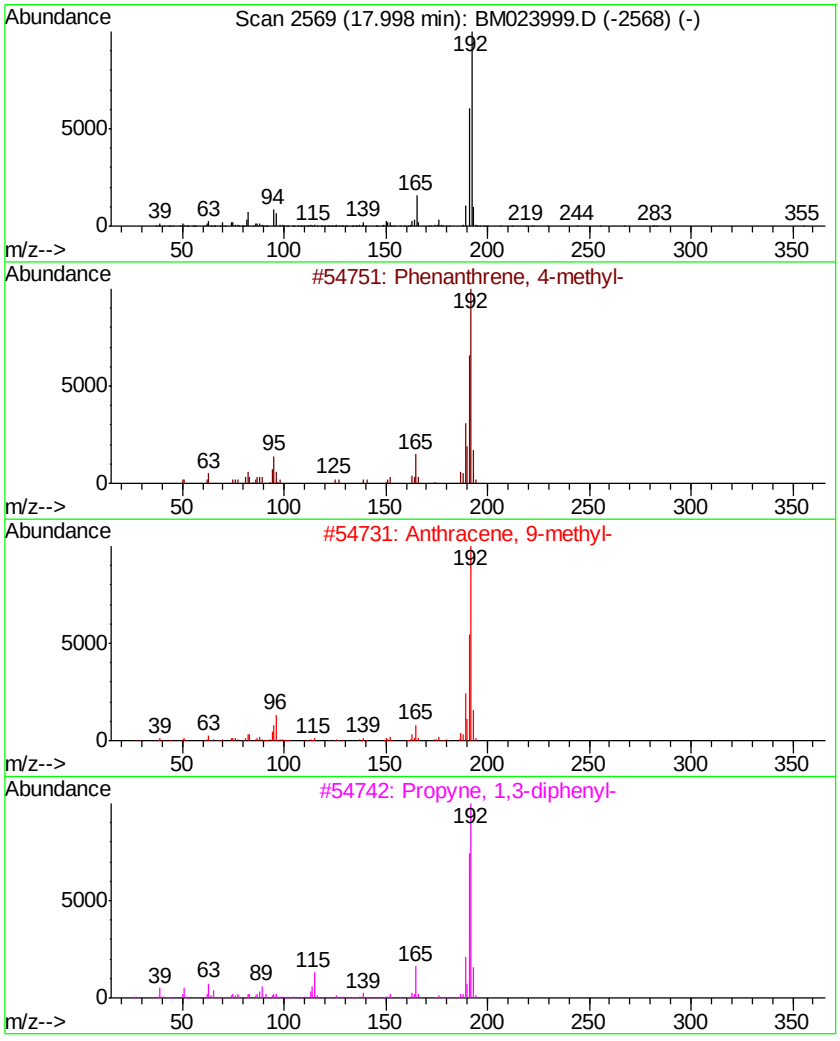
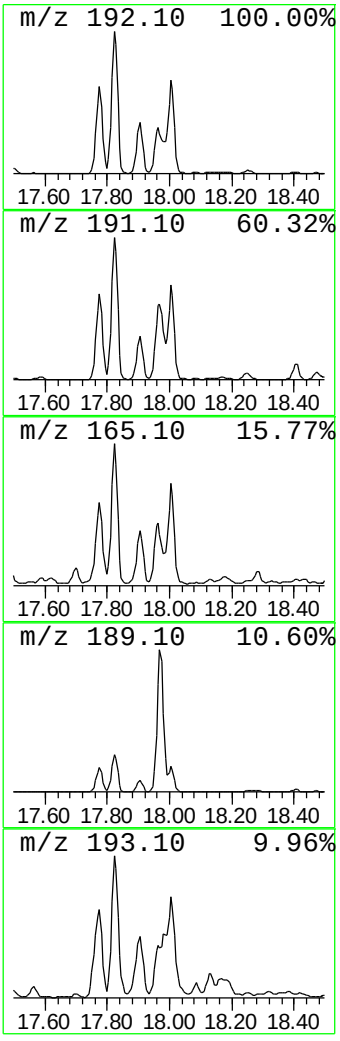
Peak Number 11 Phenanthrene, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	25.86 ng/ul	6014630	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81





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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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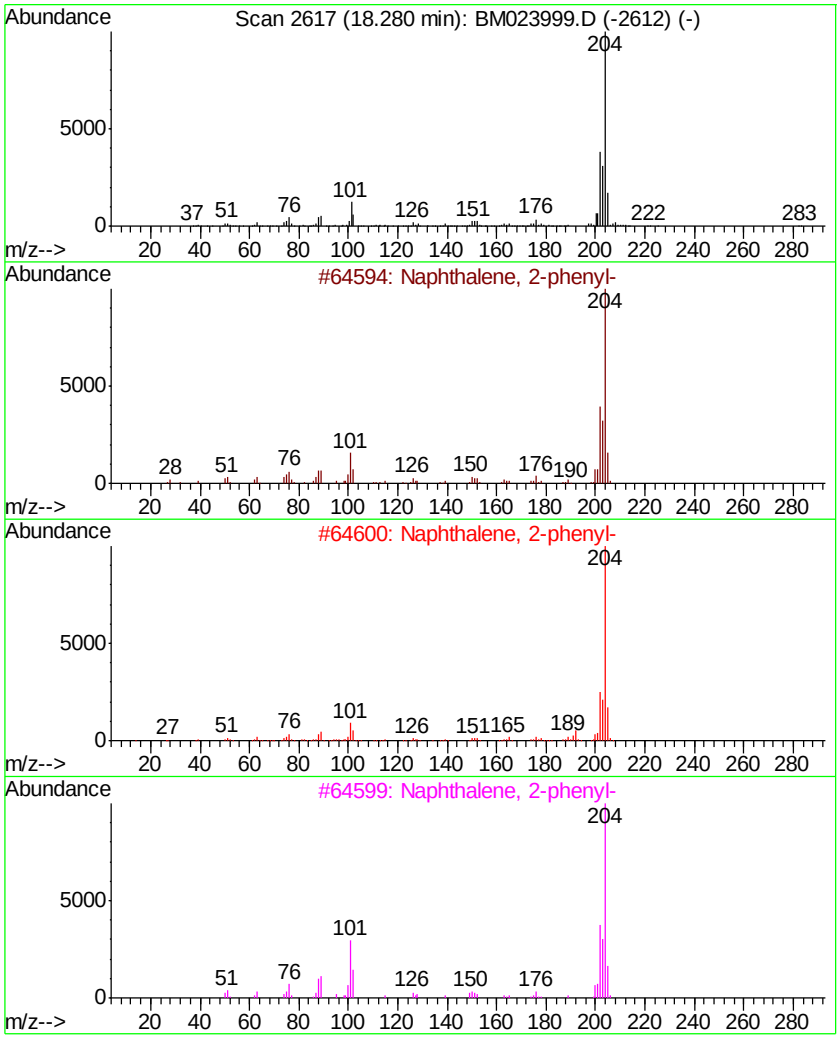
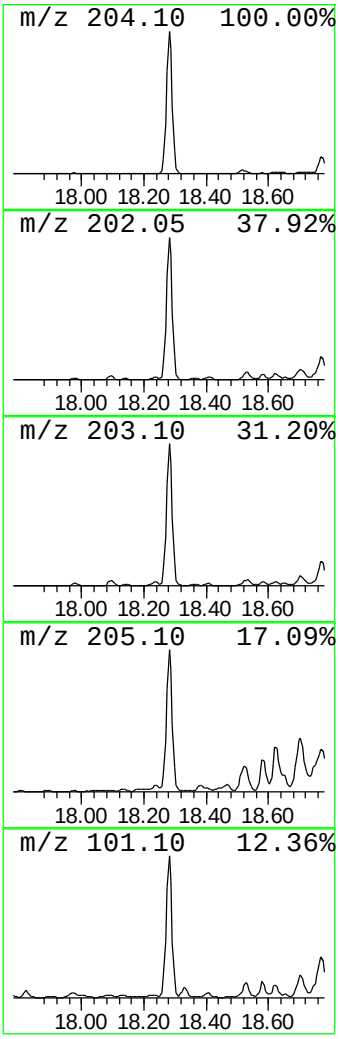
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	26.95 ng/ul	6268480	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	80





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Quant Title : SVOA CALIBRATION

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

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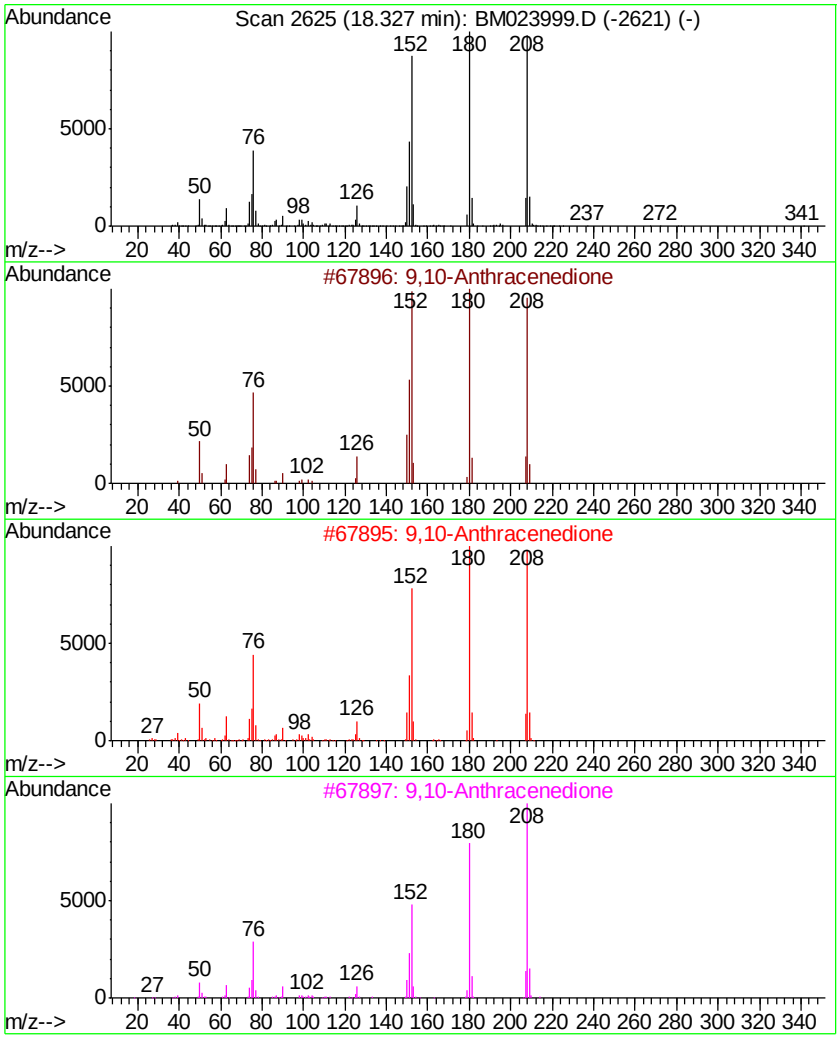
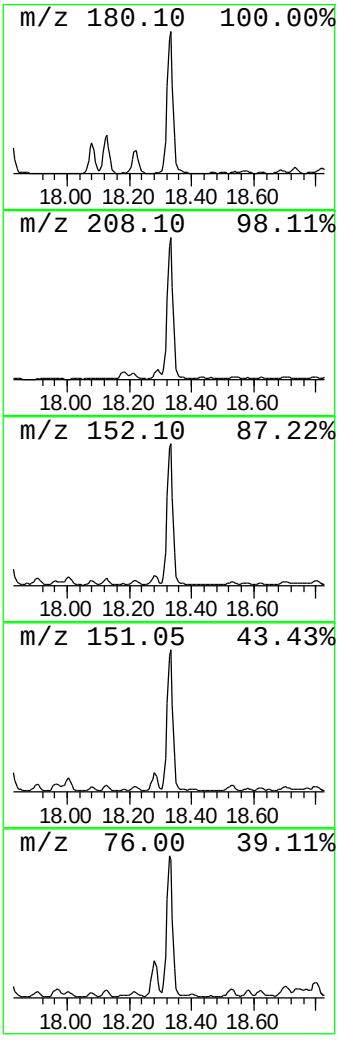
Peak Number 13 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	24.62 ng/ul	5726370	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





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Quant Title : SVOA CALIBRATION

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

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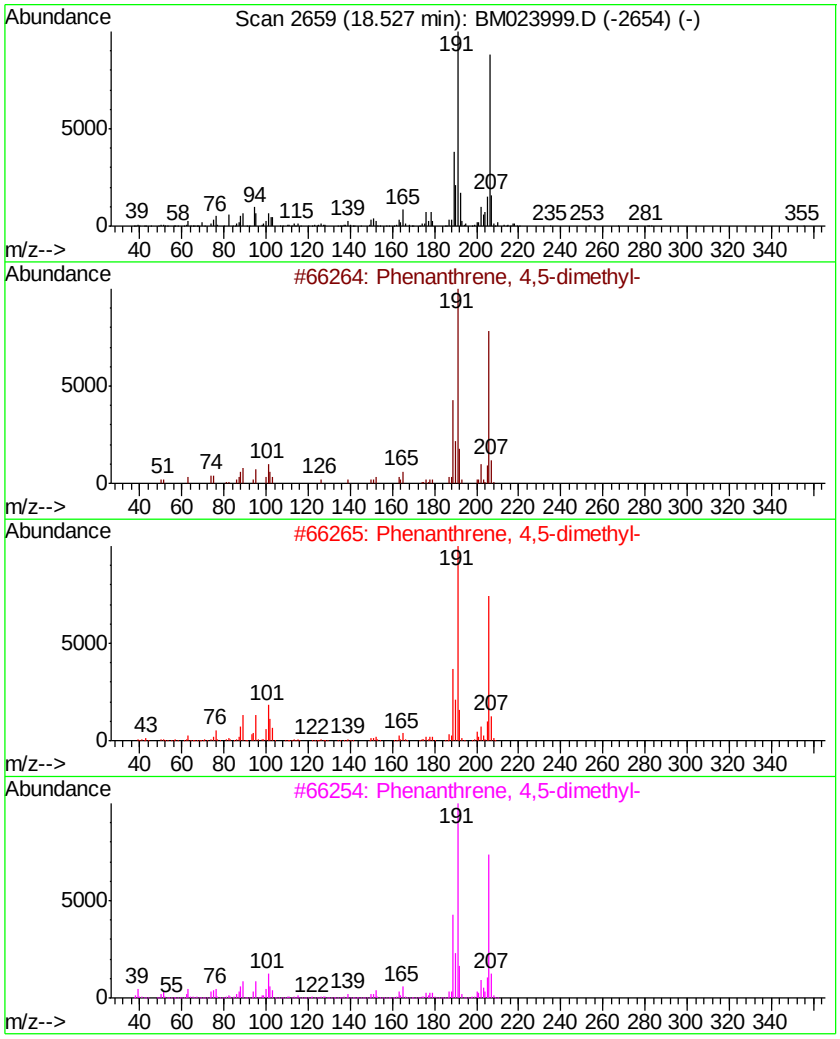
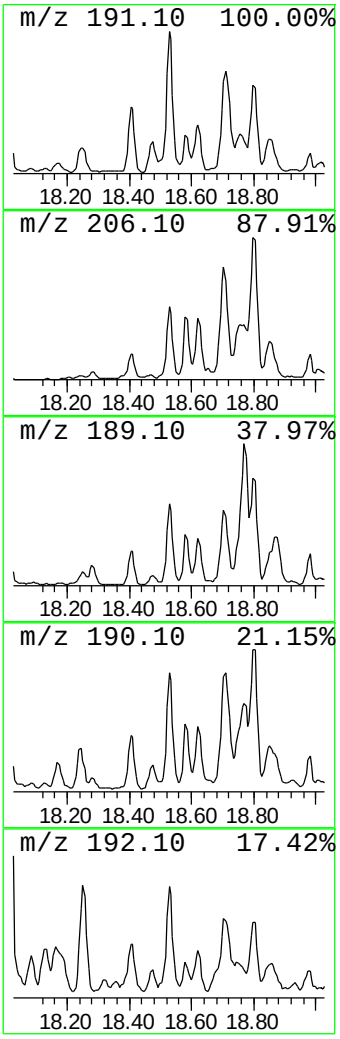
Peak Number 14 Phenanthrene, 4,5-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	8.82 ng/ul	2052300	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	97
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
5	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	94





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Quant Title : SVOA CALIBRATION

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

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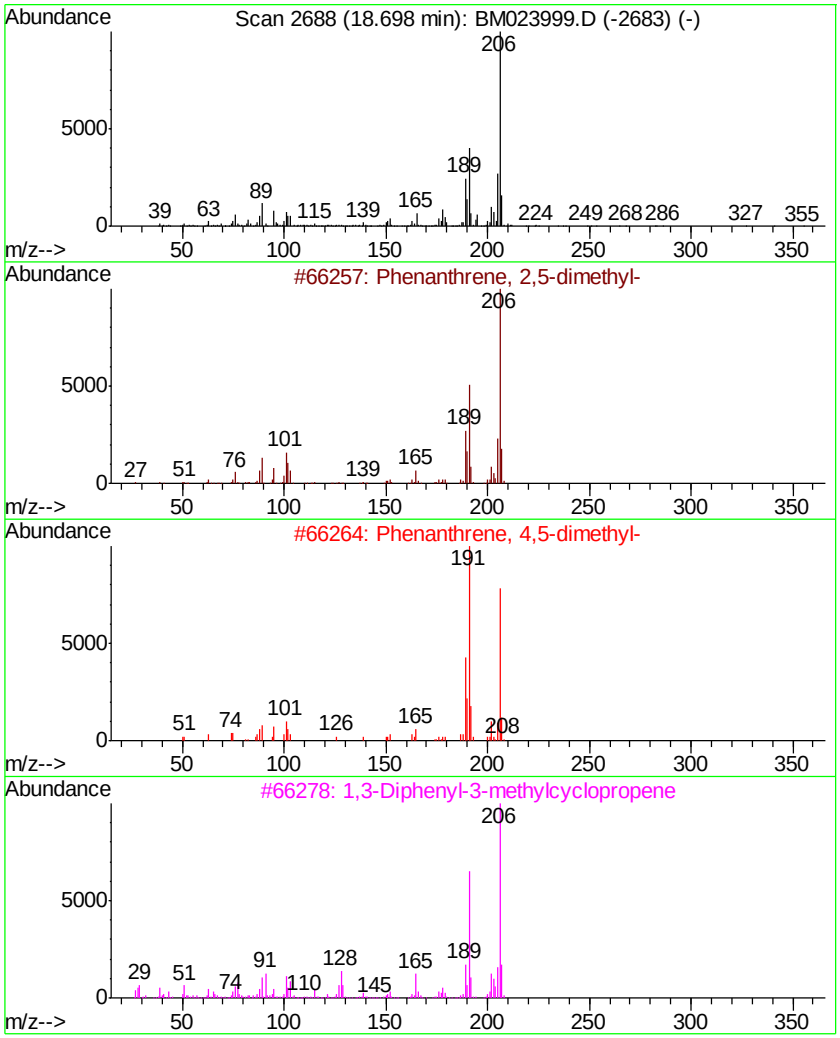
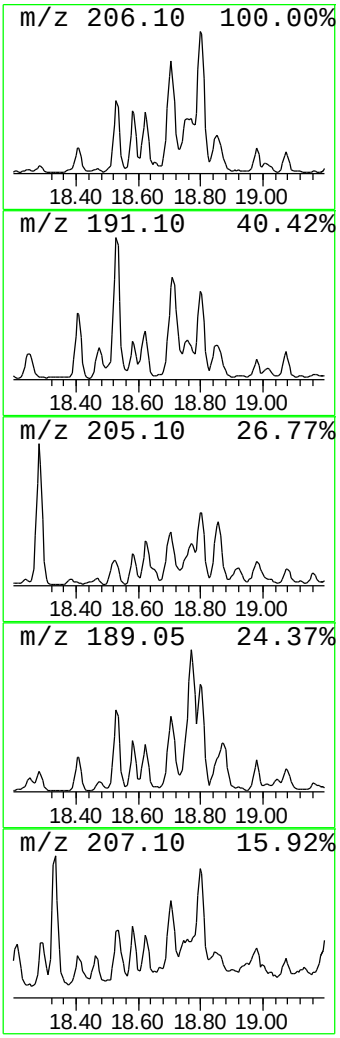
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	12.82 ng/ul	2981790	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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Quant Title : SVOA CALIBRATION

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

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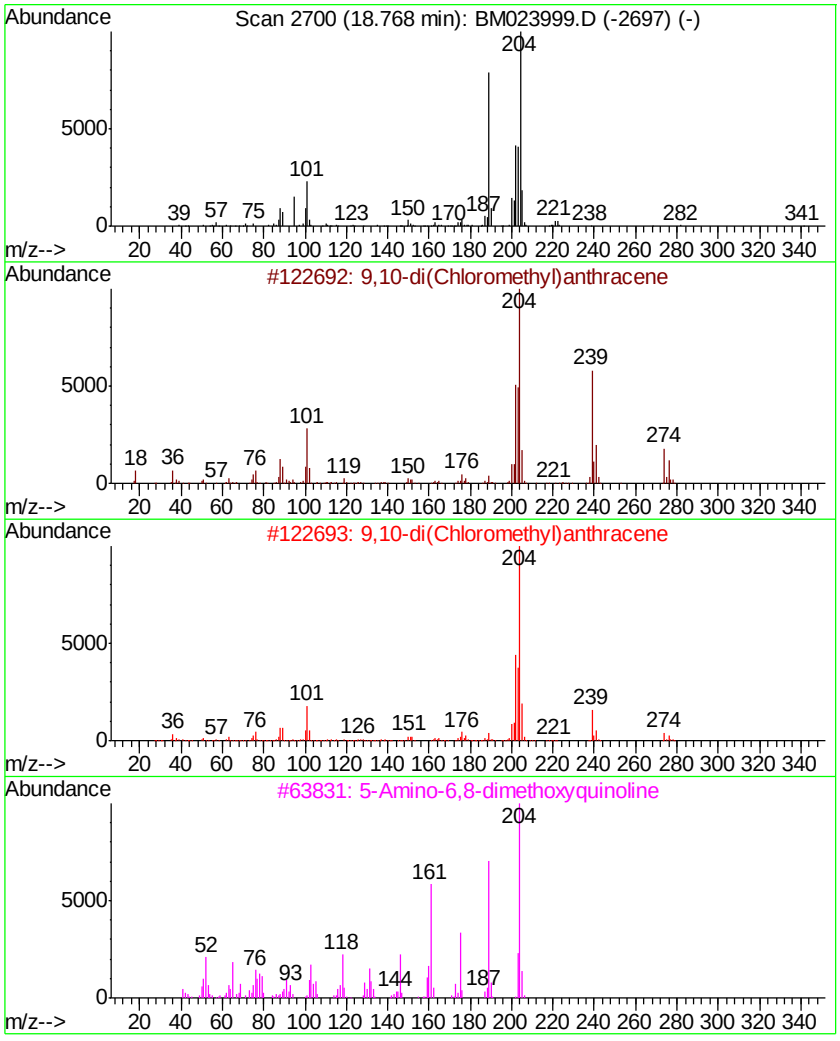
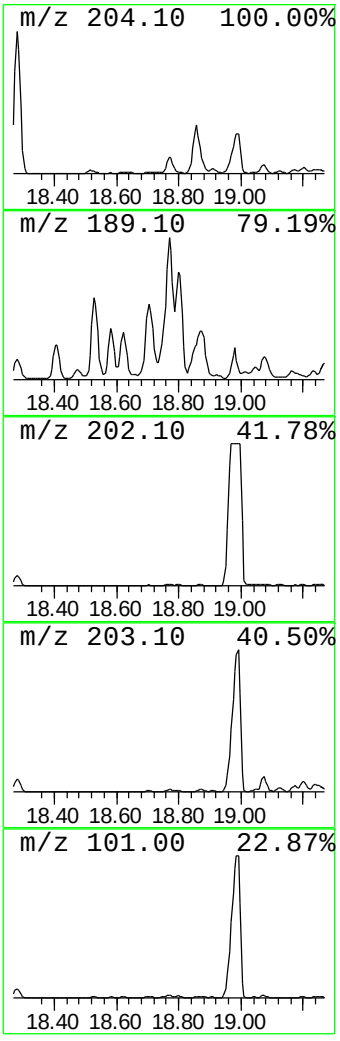
Peak Number 16 9,10-di(Chloromethyl)anthra... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	9.82 ng/ul	2285340	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	58
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	53
3	5-Amino-6,8-dimethoxyquinoline	204	C11H12N2O2	1000213-95-2	50
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	50
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	45





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Quant Title : SVOA CALIBRATION

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

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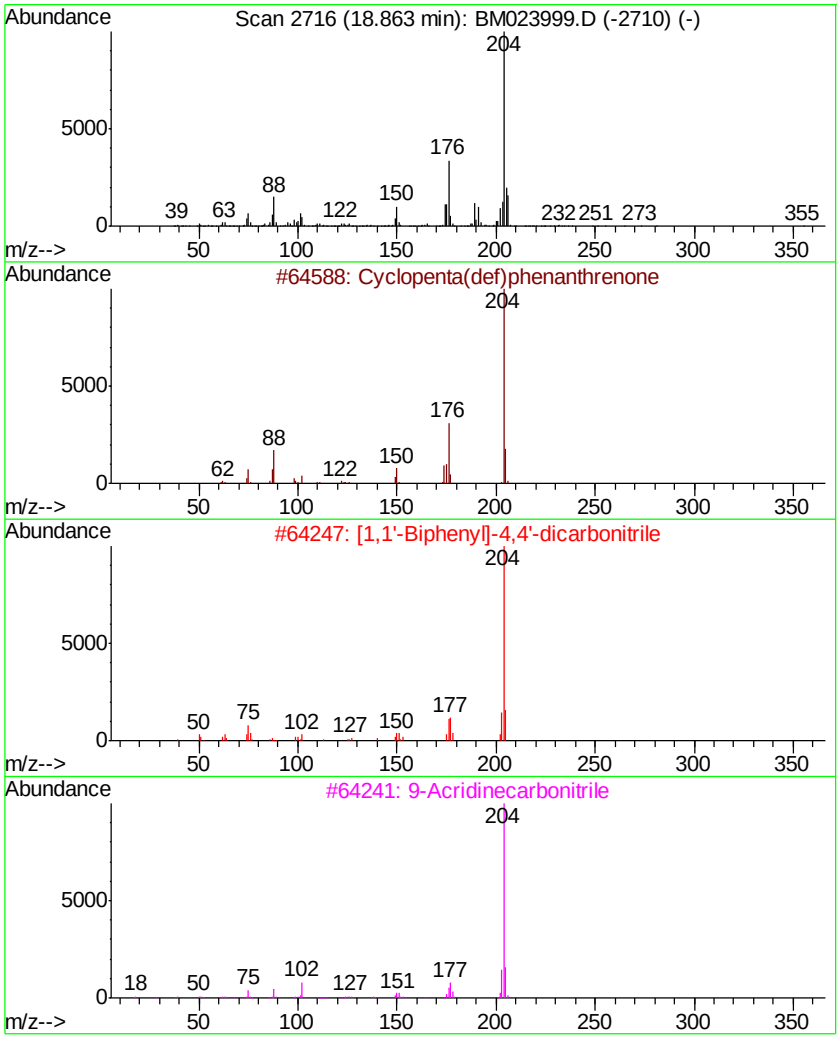
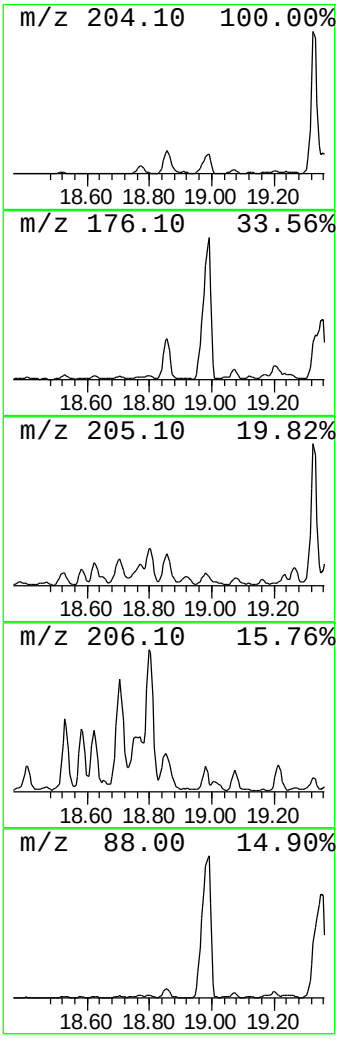
Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	15.68 ng/ul	3646740	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	53
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





Library Search Compound Report

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Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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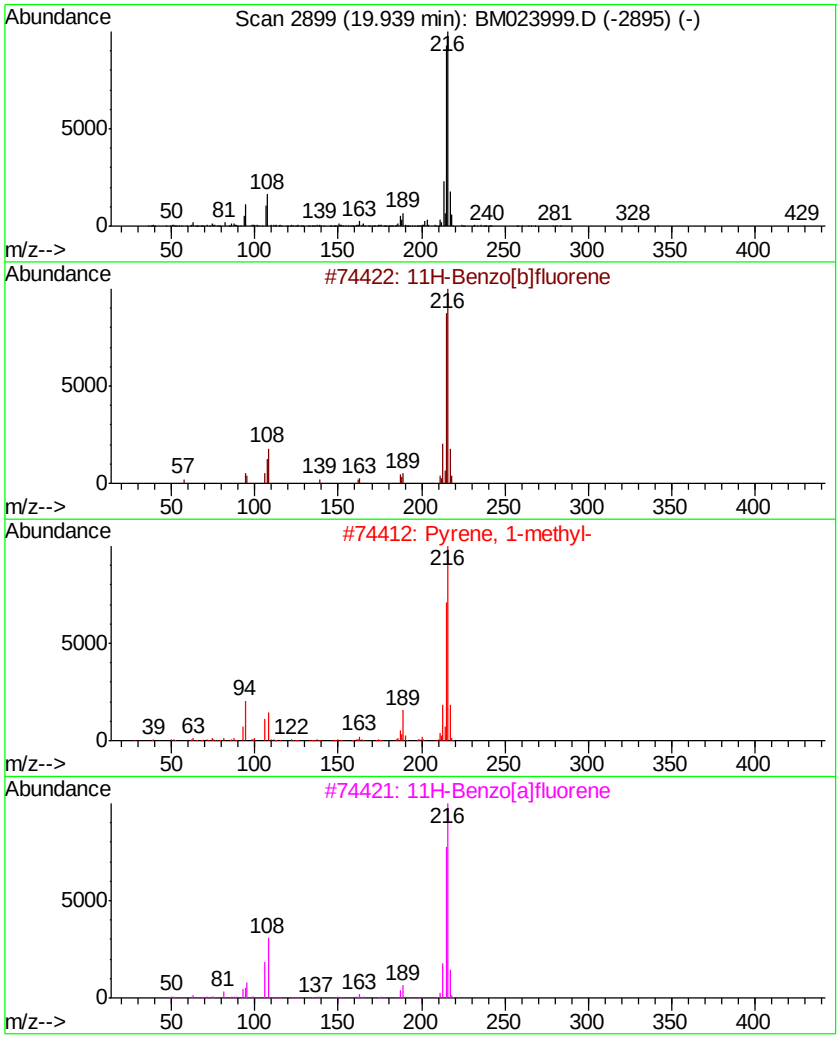
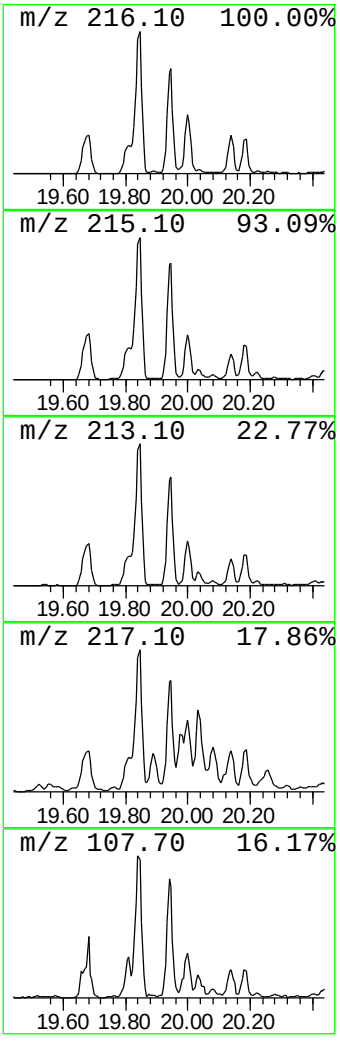
Peak Number 20 11H-Benzo[b]fluorene Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.94	2.82 ng/ul	11507300	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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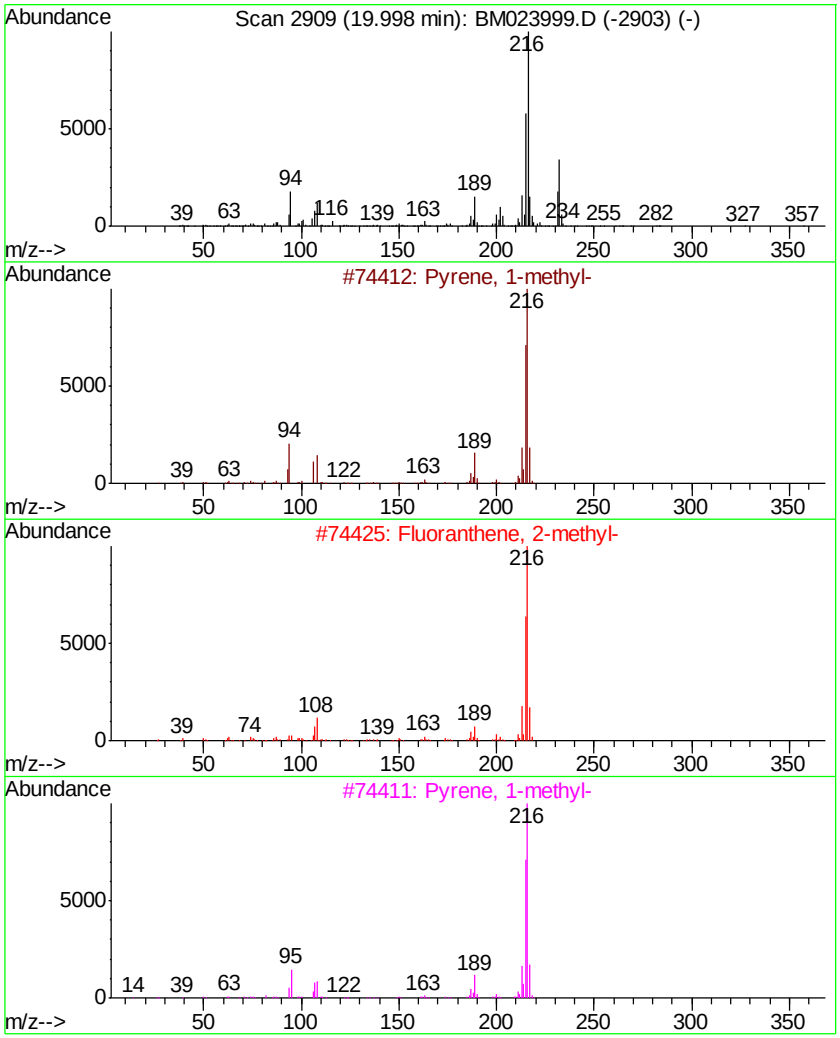
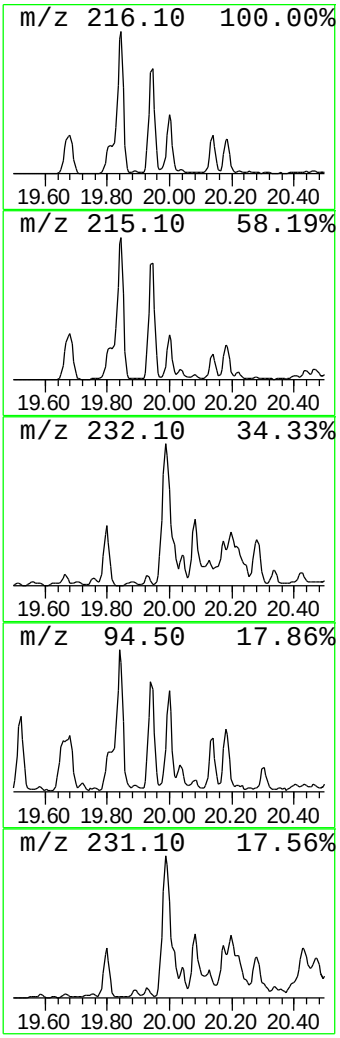
Peak Number 21 Pyrene, 1-methyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	2.47 ng/ul	10087300	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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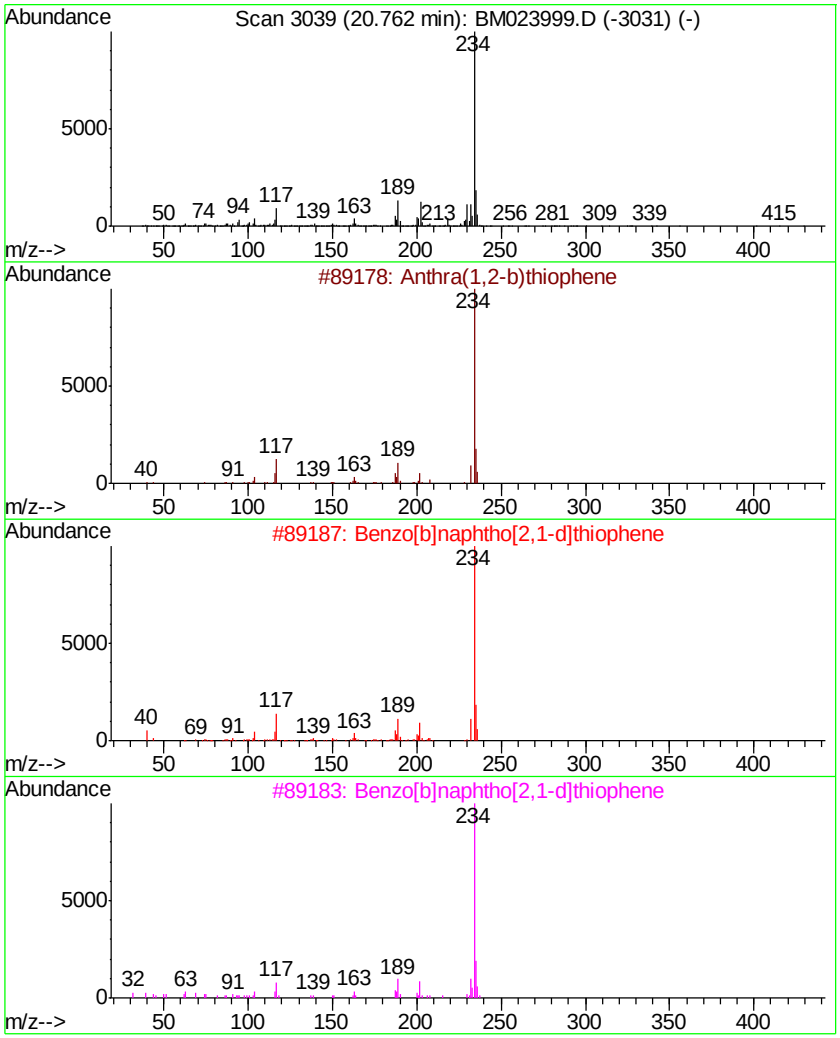
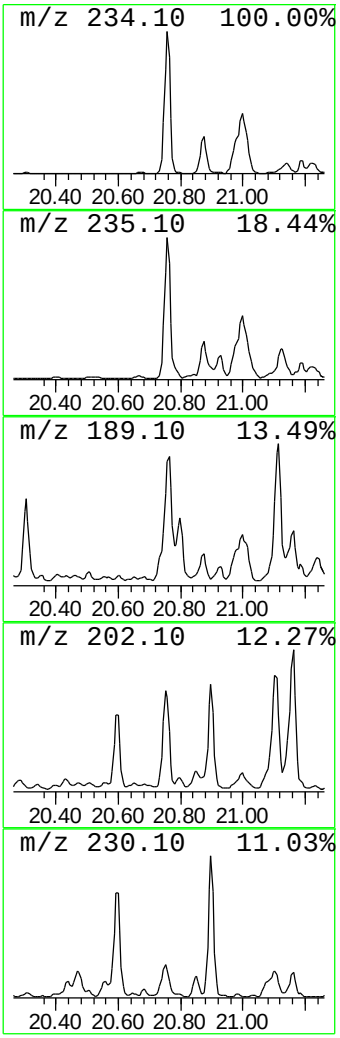
Peak Number 22 Anthra(1,2-b)thiophene Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.76	2.77 ng/ul	11298500	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87





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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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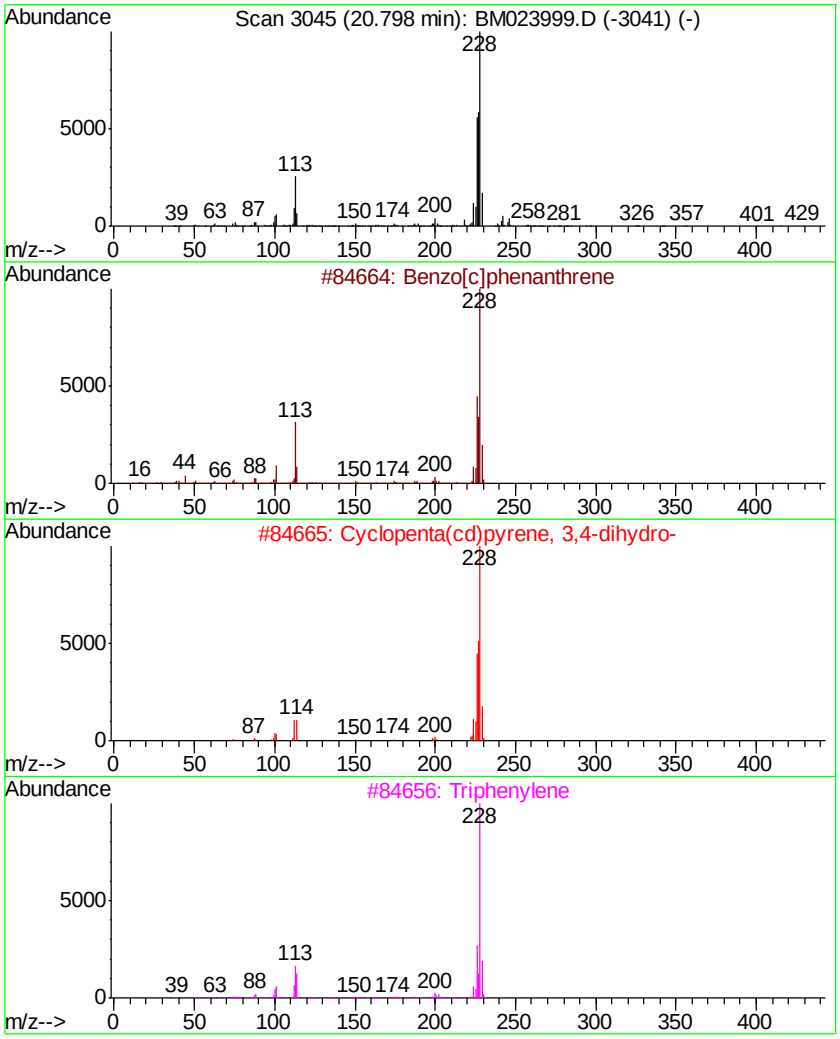
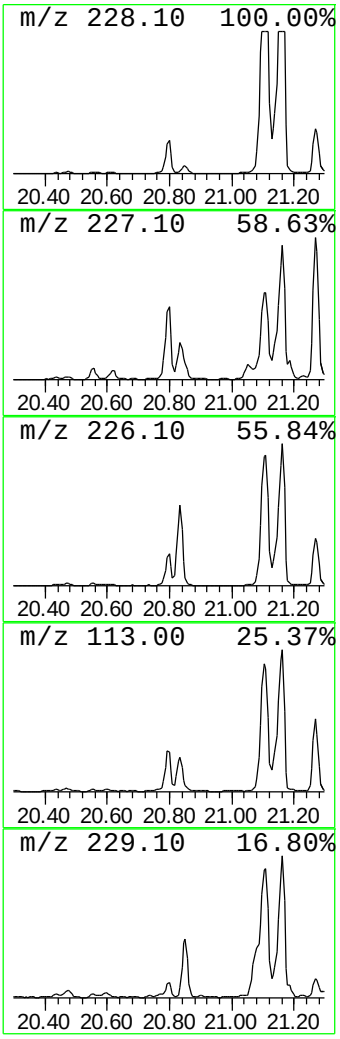
Peak Number 23 Benzo[c]phenanthrene Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.80	2.60 ng/ul	10625400	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	83
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	58
3	Triphenylene	228	C18H12	000217-59-4	53
4	Chrysene	228	C18H12	000218-01-9	46
5	Benz[a]anthracene	228	C18H12	000056-55-3	45





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Quant Title : SVOA CALIBRATION

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

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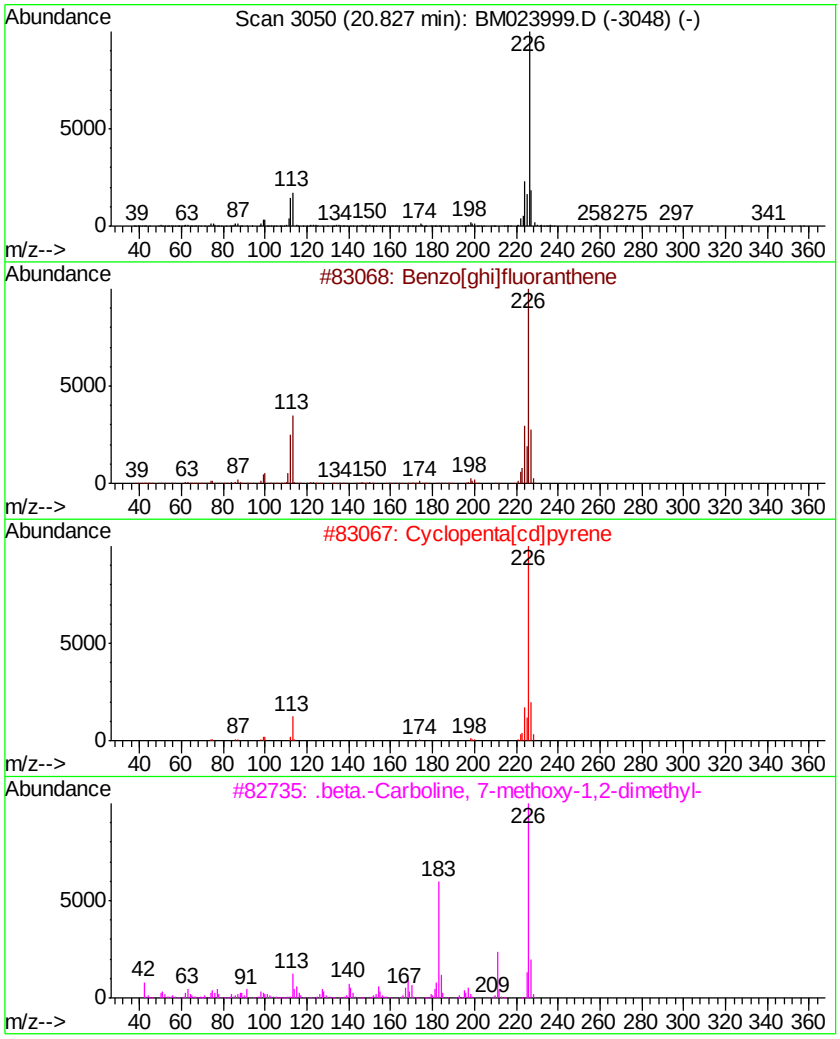
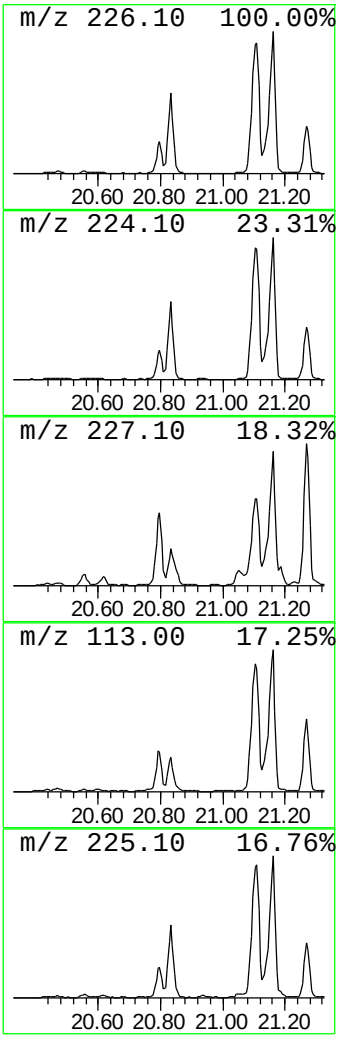
Peak Number 24 Benzo[ghi]fluoranthene Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.83	3.33 ng/ul	13623200	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	90
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	76
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
4	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	50
5	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	42





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Quant Title : SVOA CALIBRATION

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

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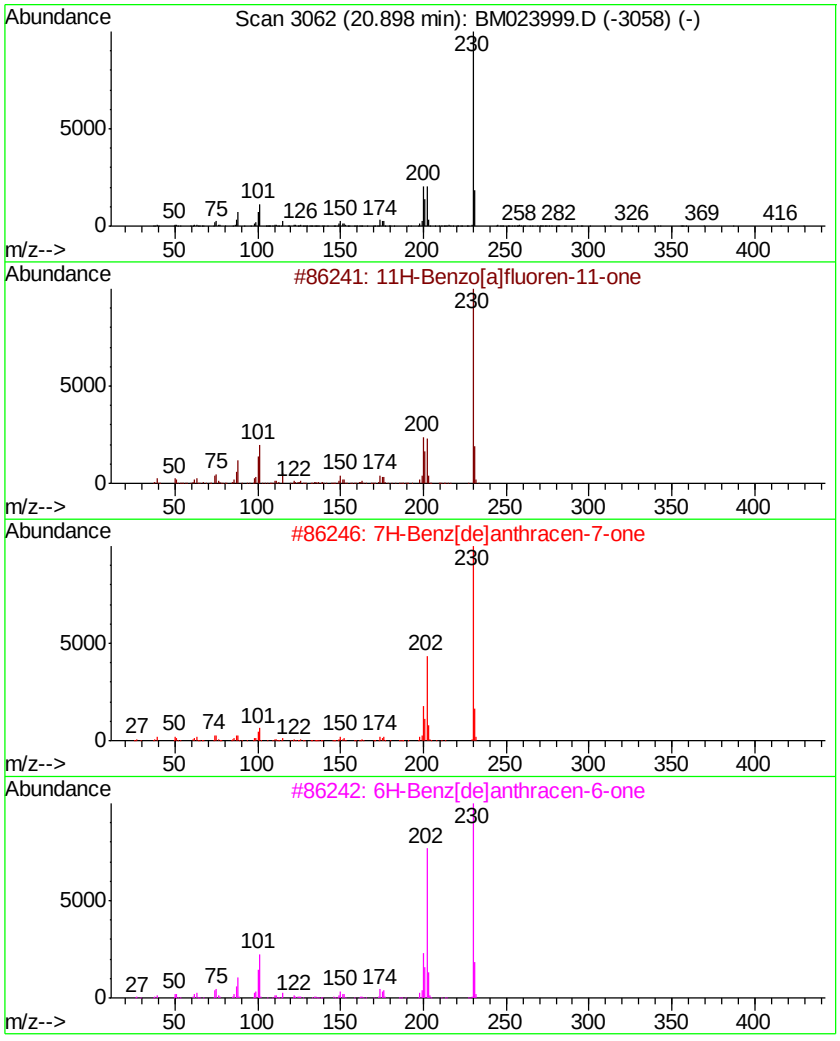
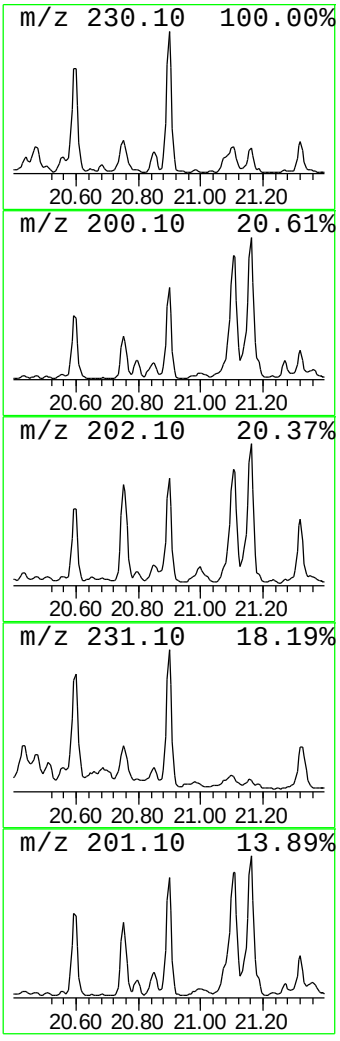
Peak Number 25 11H-Benzo[a]fluoren-11-one Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.90	2.21 ng/ul	9034600	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	91
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83





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Misc :
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Instrument : BNA_M
ClientSampleId : A5167

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Quant Title : SVOA CALIBRATION

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

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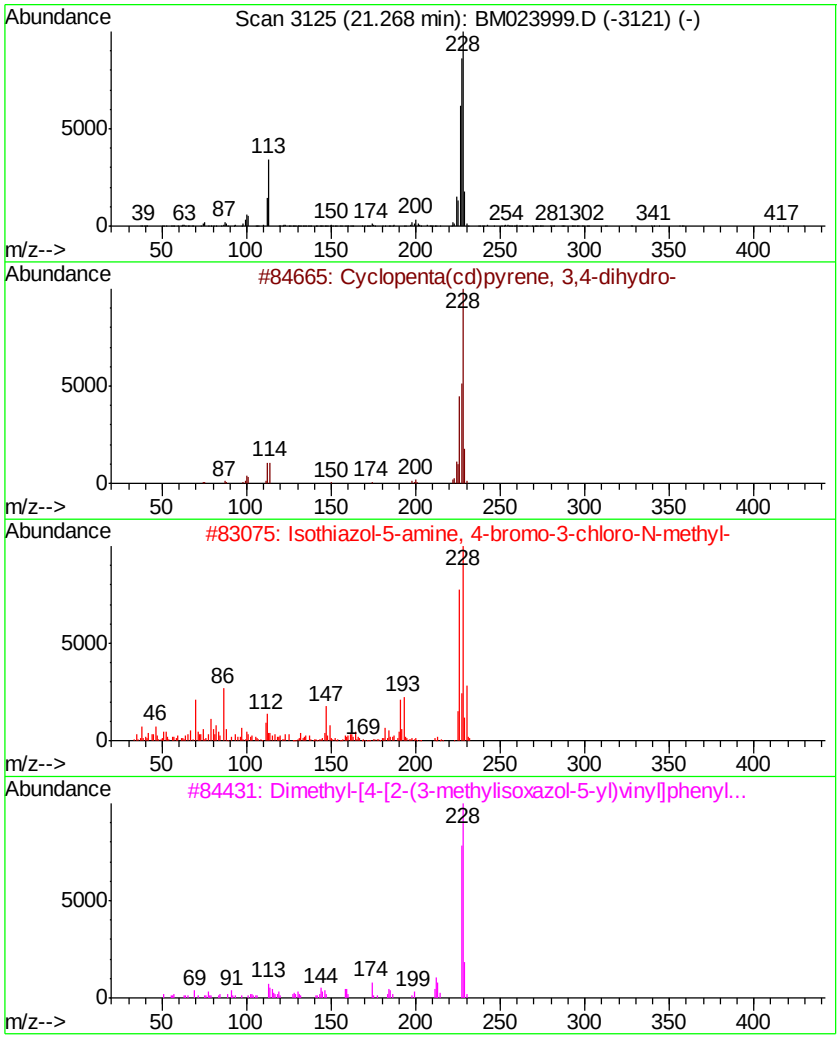
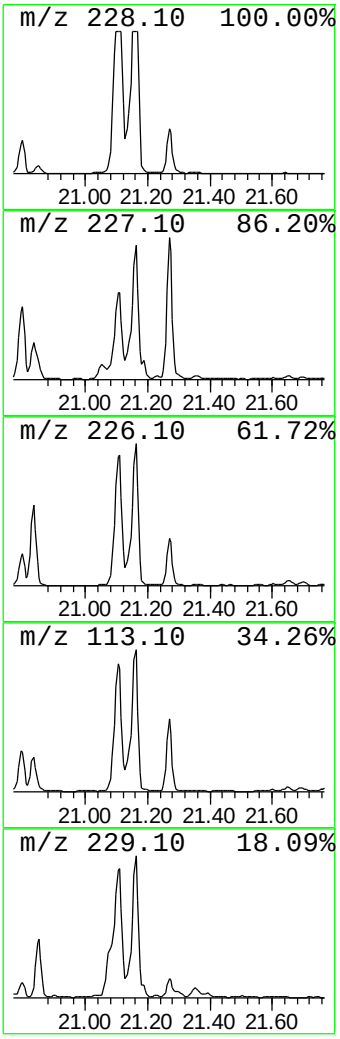
Peak Number 26 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.27	3.47 ng/ul	14175700	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	50
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	47





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Quant Title : SVOA CALIBRATION

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

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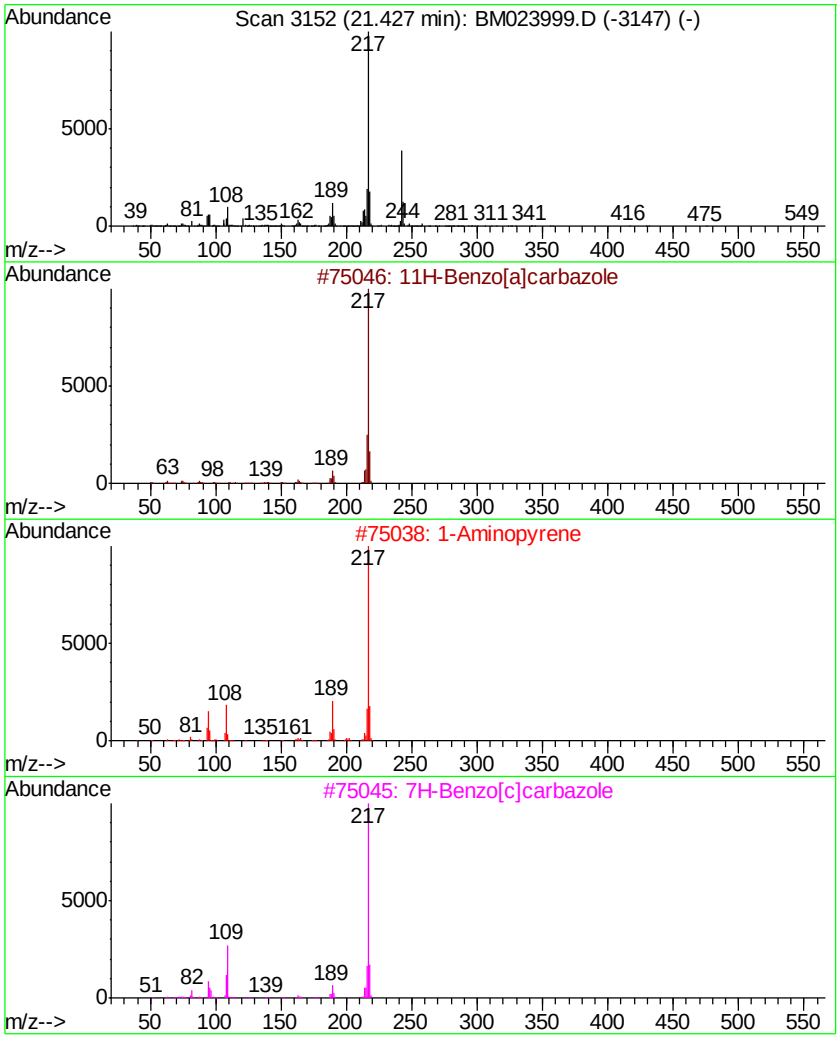
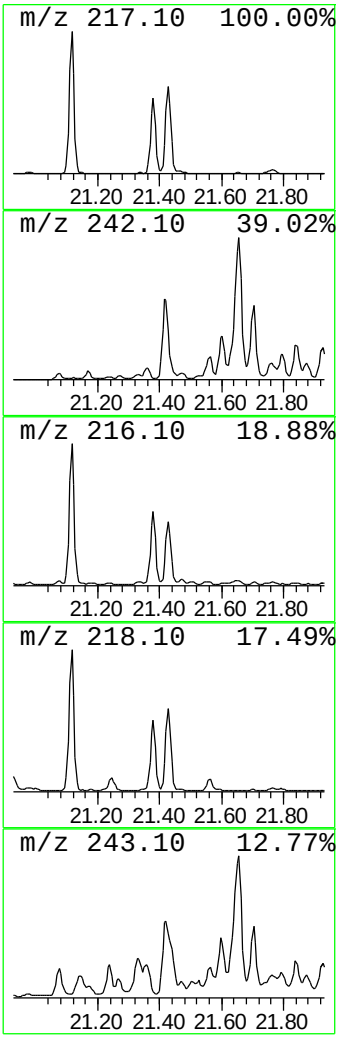
Peak Number 27 11H-Benzo[a]carbazole Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.43	2.33 ng/ul	9520220	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	78
2	1-Aminopyrene	217	C16H11N	001606-67-3	70
3	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	70
4	Benzo(c)carbazole	217	C16H11N	034777-33-8	64
5	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64





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Quant Title : SVOA CALIBRATION

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

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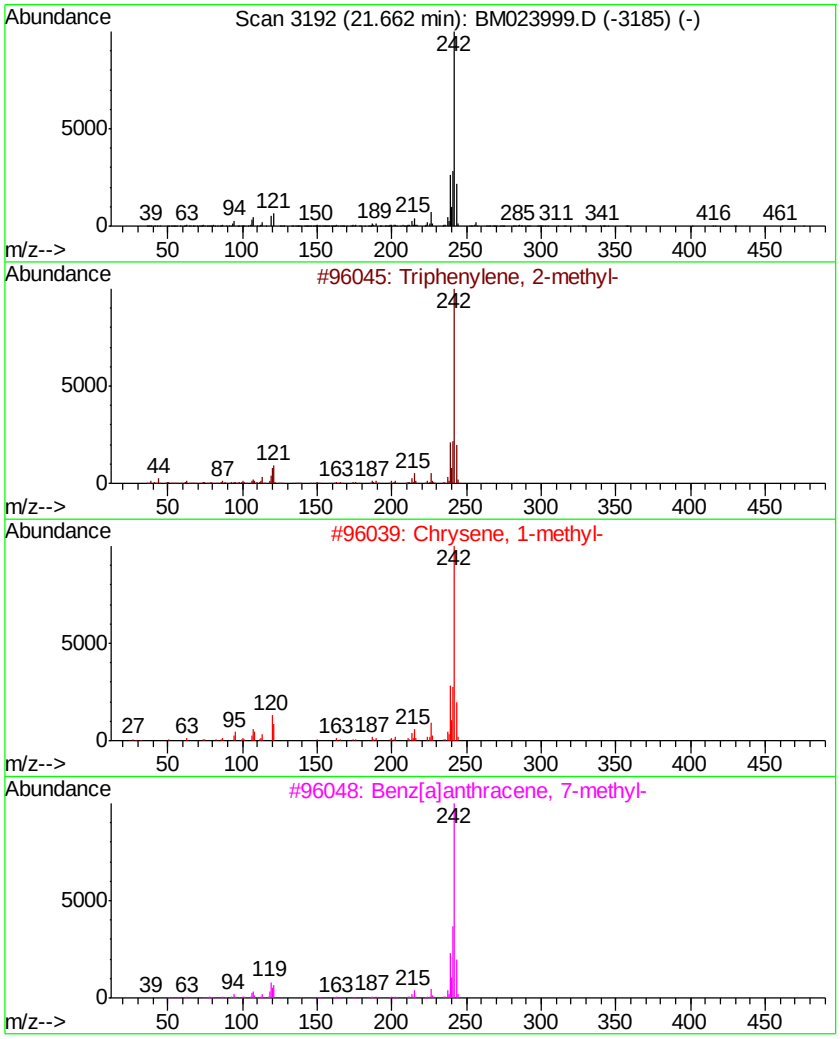
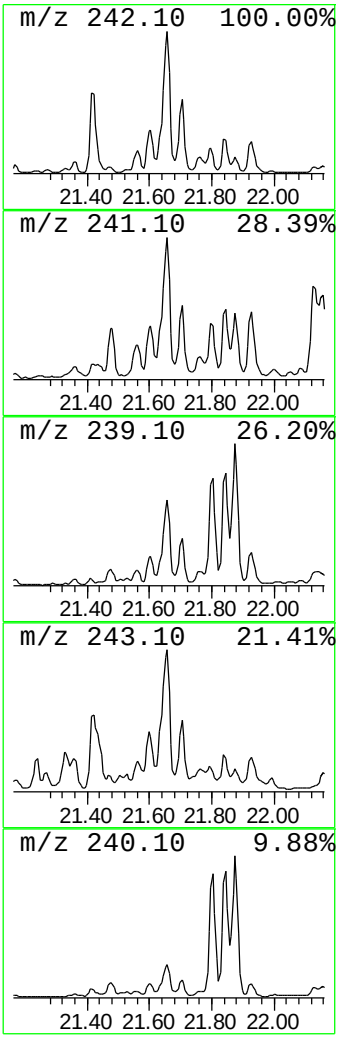
Peak Number 28 Triphenylene, 2-methyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.66	2.56 ng/ul	10448400	Chrysene-d12	21.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	93





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Quant Title : SVOA CALIBRATION

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

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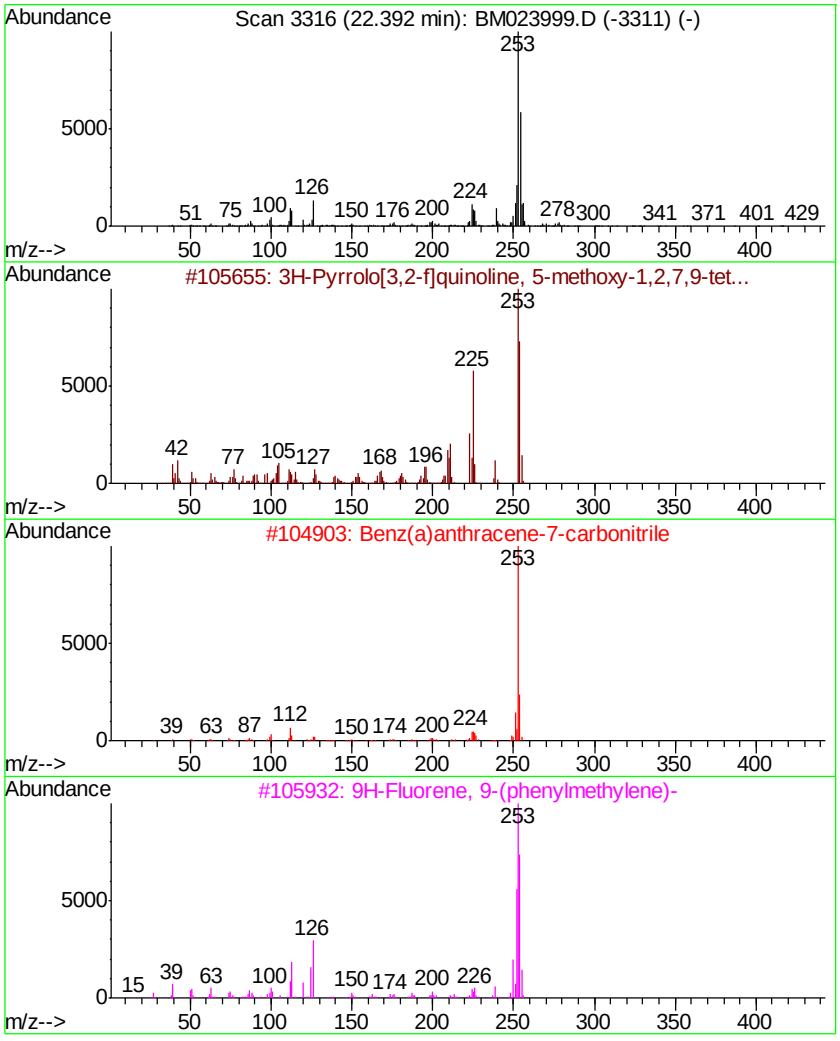
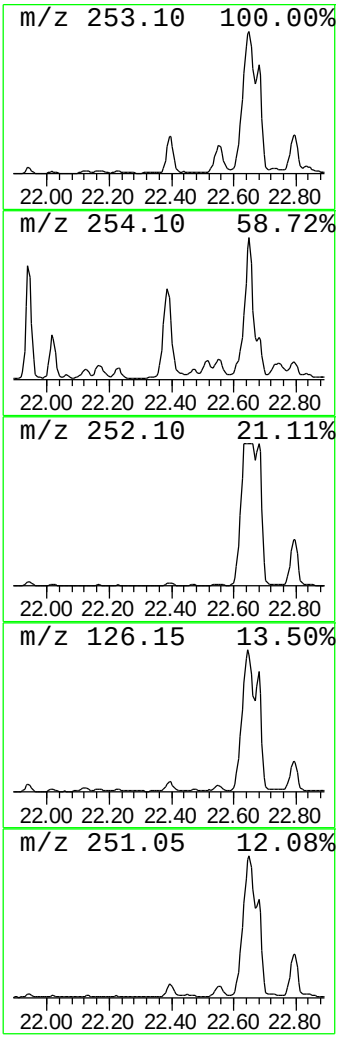
Peak Number 29 3H-Pyrrolo[3,2-f]quinoline,... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.39	18.06 ng/ul	5582040	Perylene-d12	23.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	58
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	53
4	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	53
5	2H-Pyrazolo[3',4':5,6]pyrimido[2...	254	C13H10N4O2	1000318-77-9	49





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Quant Title : SVOA CALIBRATION

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

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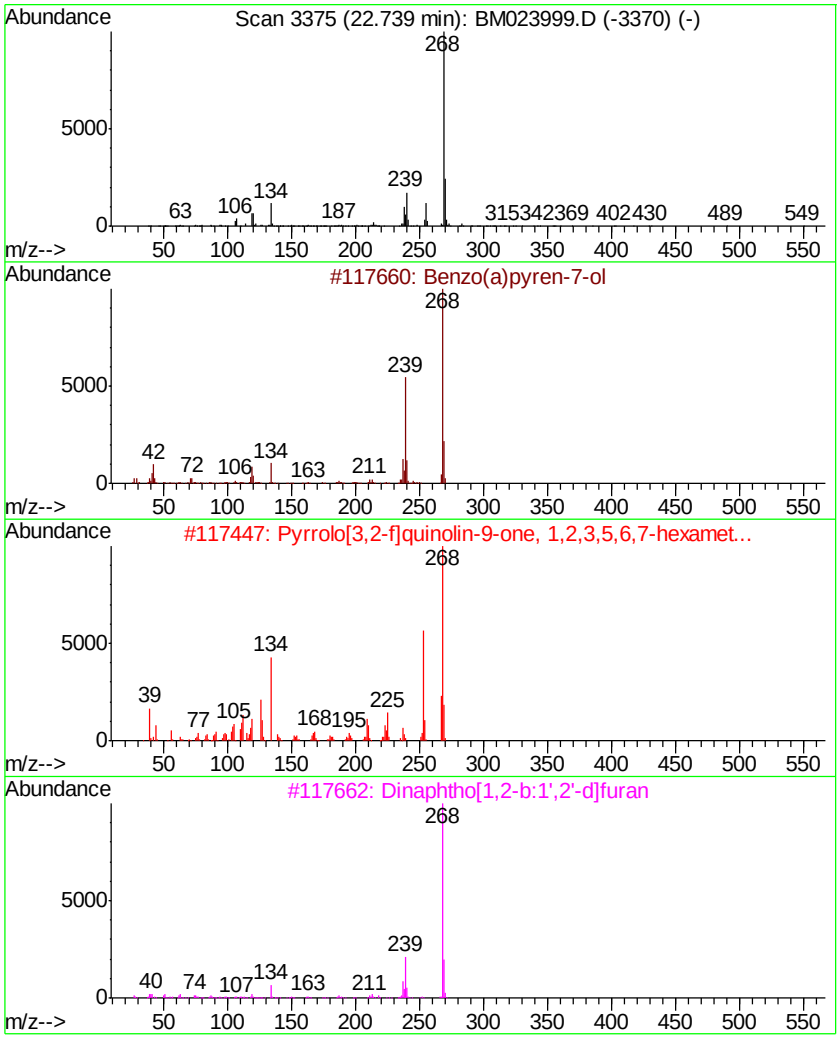
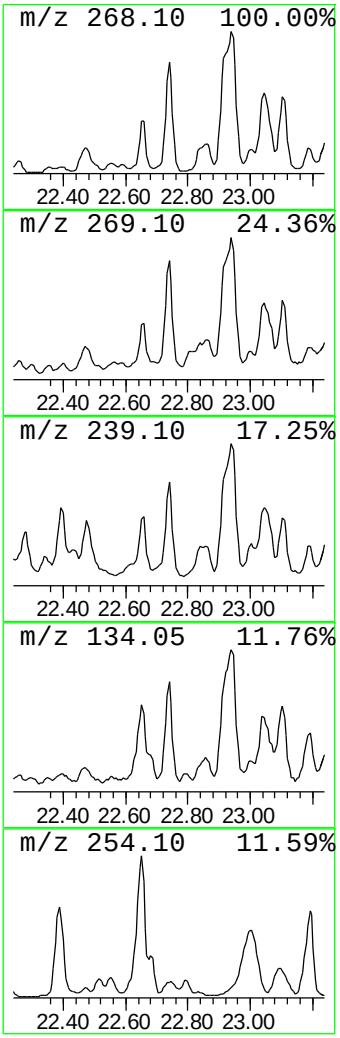
Peak Number 31 Benzo(a)pyren-7-ol Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.74	10.89 ng/ul	3364910	Perylene-d12	23.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	80
2	Pyrrolo[3,2-f]quinolin-9-one, 1,...	268	C17H20N2O	1000302-73-3	80
3	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	74
4	Naphthalene, 1,1'-methylenebis-	268	C21H16	000607-50-1	59
5	9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	59





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Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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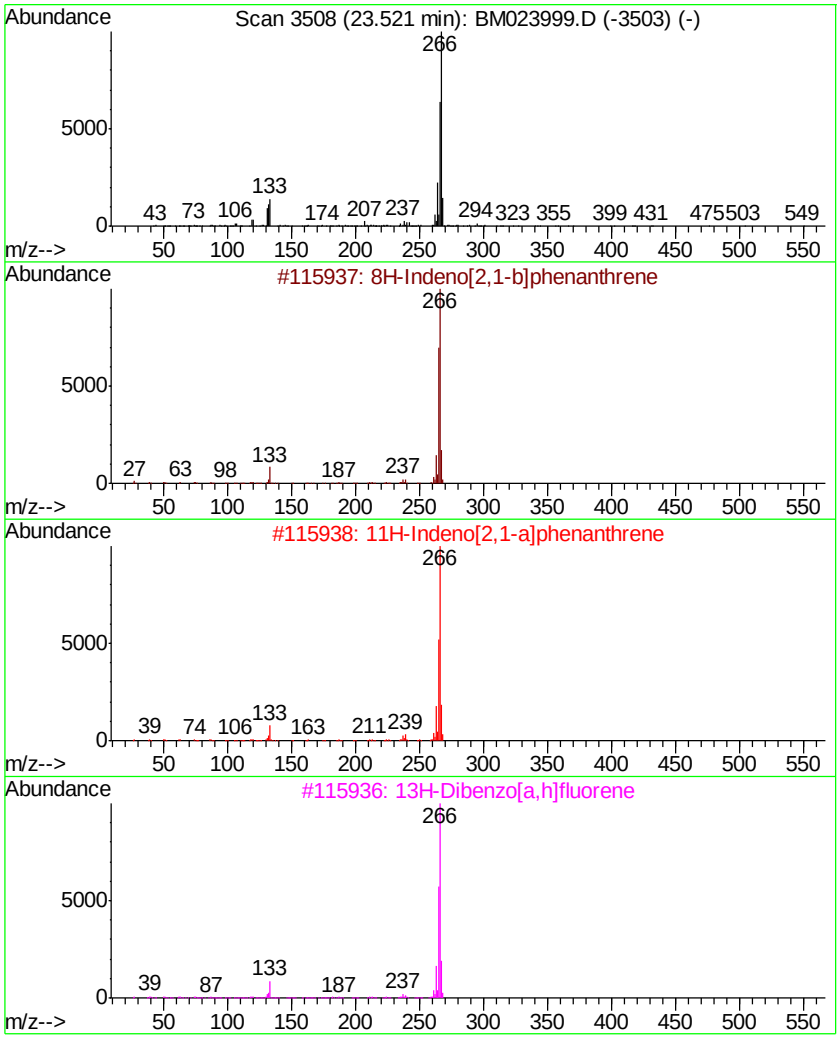
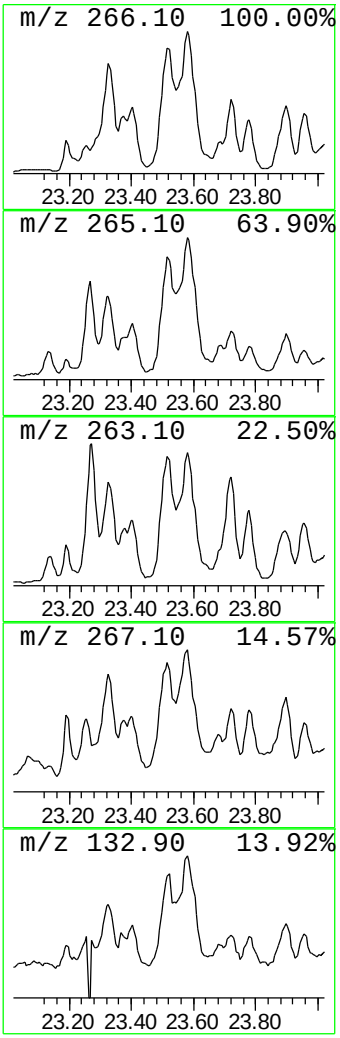
Peak Number 35 8H-Indeno[2,1-b]phenanthrene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.52	5.74 ng/ul	1774270	Perylene-d12	23.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	91
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	90
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	90
4	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	72
5	Furazano[3,4-g]benzimidazole, 7-...	266	C14H10N4S	129485-61-6	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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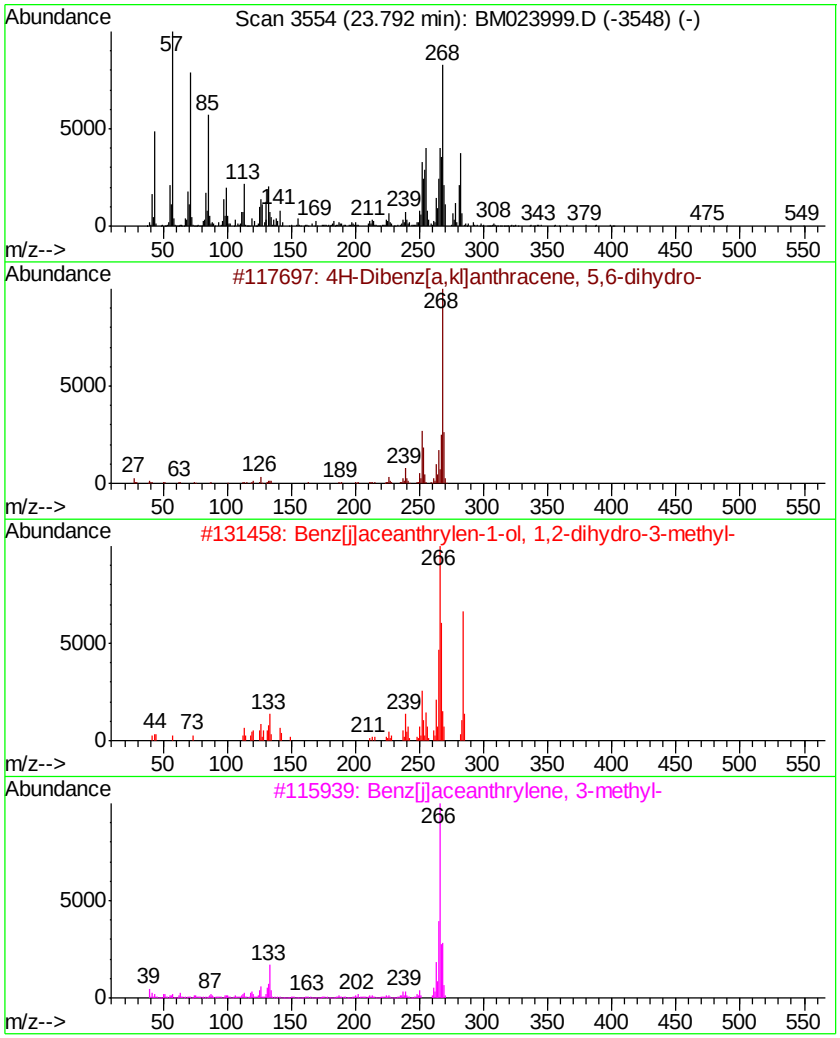
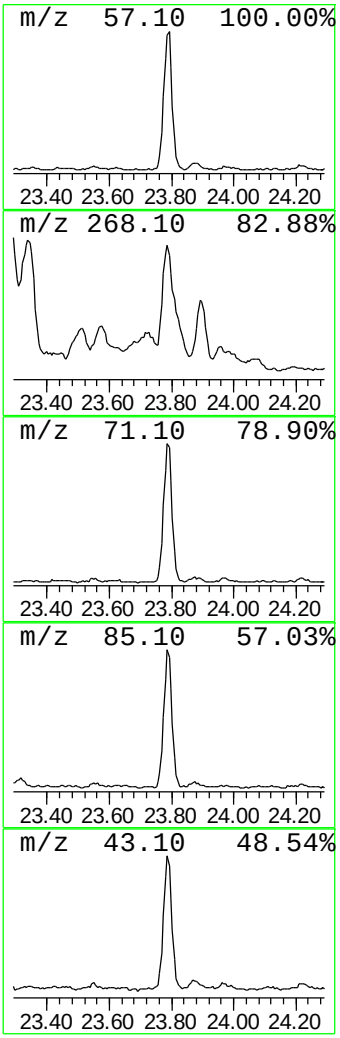
Peak Number 36 unknown-01 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.79	12.11 ng/ul	3741780	Perylene-d12	23.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	47
2	Benz[j]aceanthrylen-1-ol, 1,2-di...	284	C21H16O	003342-98-1	43
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	42
4	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	42
5	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	35





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2,4,6-Cycloheptat...	15.65	8.3	ng/ul	1932800	4	16.90	4652280	20.0
9H-Fluorene, 2-me...	16.20	7.9	ng/ul	1832650	4	16.90	4652280	20.0
9H-Fluoren-9-one	16.56	8.3	ng/ul	1937490	4	16.90	4652280	20.0
Dibenzothiophene	16.72	24.3	ng/ul	5641410	4	16.90	4652280	20.0
Acridine	17.09	9.8	ng/ul	2279170	4	16.90	4652280	20.0
Dibenzo[a,e]cyclo...	17.42	7.2	ng/ul	1676040	4	16.90	4652280	20.0
Phenanthrene, 2-m...	17.77	29.6	ng/ul	6872920	4	16.90	4652280	20.0
Phenanthrene, 1-m...	17.82	49.1	ng/ul	11425900	4	16.90	4652280	20.0
Anthracene, 1-met...	17.90	17.5	ng/ul	4067940	4	16.90	4652280	20.0
4H-Cyclopenta[def...	17.97	74.2	ng/ul	17251400	4	16.90	4652280	20.0
Phenanthrene, 4-m...	18.00	25.9	ng/ul	6014630	4	16.90	4652280	20.0
Naphthalene, 2-ph...	18.28	26.9	ng/ul	6268480	4	16.90	4652280	20.0
9,10-Anthracenedione	18.33	24.6	ng/ul	5726370	4	16.90	4652280	20.0
Phenanthrene, 4,5...	18.53	8.8	ng/ul	2052300	4	16.90	4652280	20.0
Phenanthrene, 2,5...	18.70	12.8	ng/ul	2981790	4	16.90	4652280	20.0
9,10-di(Chloromet...	18.77	9.8	ng/ul	2285340	4	16.90	4652280	20.0
Cyclopenta(def)ph...	18.86	15.7	ng/ul	3646740	4	16.90	4652280	20.0
11H-Benzo[b]fluorene	19.94	2.8	ng/ul	11507300	5	21.12	81720500	20.0
Pyrene, 1-methyl-	20.00	2.5	ng/ul	10087300	5	21.12	81720500	20.0
Anthra(1,2-b)thio...	20.76	2.8	ng/ul	11298500	5	21.12	81720500	20.0
Benzo[c]phenanthrene	20.80	2.6	ng/ul	10625400	5	21.12	81720500	20.0
Benzo[ghi]fluoran...	20.83	3.3	ng/ul	13623200	5	21.12	81720500	20.0
11H-Benzo[a]fluor...	20.90	2.2	ng/ul	9034600	5	21.12	81720500	20.0
Cyclopenta(cd)pyr...	21.27	3.5	ng/ul	14175700	5	21.12	81720500	20.0
11H-Benzo[a]carba...	21.43	2.3	ng/ul	9520220	5	21.12	81720500	20.0
Triphenylene, 2-m...	21.66	2.6	ng/ul	10448400	5	21.12	81720500	20.0
3H-Pyrrolo[3,2-f]...	22.39	18.1	ng/ul	5582040	6	23.27	6180820	20.0
Benzo(a)pyren-7-ol	22.74	10.9	ng/ul	3364910	6	23.27	6180820	20.0
8H-Indeno[2,1-b]p...	23.52	5.7	ng/ul	1774270	6	23.27	6180820	20.0
unknown-01	23.79	12.1	ng/ul	3741780	6	23.27	6180820	20.0