LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.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	3.110	3	4	10	rVB	32006	34559	0.61%	0.061%
2	3.363	40	47	52	rVV	182782	393405	6.93%	0.698%
3	3.410	52	55	58	rVV	67265	99638	1.75%	0.177%
4	3.458	58	63	70	rVV	1277185	1926851	33.93%	3.417%
5	3.510	70	72	84	rVB	29524	48390	0.85%	0.086%
6	4.375	213	219	227	rBV	55980	80441	1.42%	0.143%
7	7.822	798	805	818	rVB	121680	209768	3.69%	0.372%
8	7.992	828	834	846	rBV	107818	173311	3.05%	0.307%
9	8.216	866	872	882	rVB	134102	227310	4.00%	0.403%
10	8.698	947	954	963	rBV	236327	402010	7.08%	0.713%
11	9.404	1067	1074	1085	rBV	133027	228915	4.03%	0.406%
12	9.892	1151	1157	1165	rBV	115636	200958	3.54%	0.356%
13	10.628	1275	1282	1289	rVB	91601	155180	2.73%	0.275%
14	11.175	1367	1375	1381	rBV	134273	242823	4.28%	0.431%
15	11.239	1381	1386	1401	rVB	74277	139752	2.46%	0.248%
16	11.563	1433	1441	1447	rBV	320365	561846	9.89%	0.996%
17	11.686	1456	1462	1466	rBV	100798	192777	3.39%	0.342%
18	14.674	1964	1970	1974	rVV	260909	371492	6.54%	0.659%
19	14.721	1974	1978	1986	rVB	177546	239717	4.22%	0.425%
20	15.004	2019	2026	2040	rBV	299057	507007	8.93%	0.899%
21	15.298	2070	2076	2082	rVV2	407300	625753	11.02%	1.110%
22	15.363	2082	2087	2094	rVB	129384	192338	3.39%	0.341%
23	15.474	2101	2106	2115	rVV	61796	103792	1.83%	0.184%
24	15.686	2135	2142	2149	rBV	64860	99249	1.75%	0.176%
25	15.786	2155	2159	2164	rVB	23531	30884	0.54%	0.055%
26	16.268	2235	2241	2247	rBV	379315	579882	10.21%	1.028%
27	16.327	2247	2251	2257	rVB	152247	220582	3.88%	0.391%
28	16.398	2259	2263	2268	rBV2	21874	37505	0.66%	0.067%
29	16.610	2295	2299	2304	rVB	29836	42528	0.75%	0.075%
30	16.751	2318	2323	2332	rBV	31504	60886	1.07%	0.108%
31	16.898	2344	2348	2357	rBV2	14823	28099	0.49%	0.050%
32	17.186	2389	2397	2407	rBV2	63880	148882	2.62%	0.264%
33	17.310	2407	2418	2423	rBV2	31016	60014	1.06%	0.106%
34	17.527	2448	2455	2458	rBV4	19508	32423	0.57%	0.058%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Title : SVOA CALIBRATION

35	17.668	2474	2479	2485	rBV	77603	121575	2.14%	0.216%
36	17.727	2485	2489	2496	rVV2	18413	41023	0.72%	0.073%
37	17.833	2502	2507	2512	rVV	107041	155086	2.73%	0.275%
38	18.009	2530	2537	2540	rBV	431709	654793	11.53%	1.161%
39	18.057	2540	2545	2550	rVV	2131893	3192275	56.21%	5.662%
40	18.110	2550	2554	2557	rVV	416857	616319	10.85%	1.093%
41	18.145	2557	2560	2565	rVV	329023	447810	7.89%	0.794%
42	18.204	2565	2570	2577	rVB	44650	71856	1.27%	0.127%
43	18.404	2597	2604	2617	rBV	224579	364908	6.43%	0.647%
44	18.504	2617	2621	2625	rBV	34162	49656	0.87%	0.088%
45	18.580	2630	2634	2644	rVB4	29748	49565	0.87%	0.088%
46	18.862	2675	2682	2686	rBV	174459	265494	4.68%	0.471%
47	18.909	2686	2690	2696	rVB	246939	342531	6.03%	0.608%
48	18.986	2697	2703	2708	rBV	57593	86606	1.53%	0.154%
49	19.062	2708	2716	2725	rBV2	334760	716999	12.63%	1.272%
50	19.192	2734	2738	2742	rVV2	23602	34489	0.61%	0.061%
51	19.333	2756	2762	2767	rVV	192130	289323	5.09%	0.513%
52	19.392	2767	2772	2779	rVV	343293	487102	8.58%	0.864%
53	19.574	2796	2803	2806	rBV4	48898	75574	1.33%	0.134%
54	19.621	2808	2811	2814	rVV	40768	47046	0.83%	0.083%
55	19.662	2814	2818	2821	rVB2	29580	37171	0.65%	0.066%
56	19.739	2826	2831	2835	rBV	79081	127787	2.25%	0.227%
57	19.792	2835	2840	2842	rBV4	38709	65685	1.16%	0.116%
58	19.898	2851	2858	2866	rBV2	117739	206666	3.64%	0.367%
59	20.015	2868	2878	2886	rBV	3865625	5678969	100.00%	10.072%
60	20.103	2890	2893	2897	rVB	47938	71384	1.26%	0.127%
61	20.156	2898	2902	2905	rBV	37285	59902	1.05%	0.106%
62	20.198	2905	2909	2912	rVV2	53697	77579	1.37%	0.138%
63	20.251	2912	2918	2925	rVB2	137559	249729	4.40%	0.443%
64	20.339	2926	2933	2935	rBV3	822209	1582669	27.87%	2.807%
65	20.374	2935	2939	2944	rVV	3098923	4259682	75.01%	7.555%
66	20.421	2944	2947	2952	rVB2	123034	170088	3.00%	0.302%
67	20.527	2961	2965	2970	rVB	173742	242316	4.27%	0.430%
68	20.603	2974	2978	2982	rVB	74892	97764	1.72%	0.173%
69	20.668	2984	2989	2995	rBV4	168410	368344	6.49%	0.653%
70	20.727	2996	2999	3004	rVB	65276	97155	1.71%	0.172%
71	20.839	3005	3018	3025	rVB	416325	821828	14.47%	1.458%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Title : SVOA CALIBRATION

72	20.933	3029	3034	3037	rBV2	330647	446890	7.87%	0.793%
73	20.968	3038	3040	3042	rVV2	84444	104254	1.84%	0.185%
74	20.998	3042	3045	3048	rVV	169429	230381	4.06%	0.409%
75	21.027	3048	3050	3053	rVB2	83277	79494	1.40%	0.141%
76	21.133	3064	3068	3072	rBV	117657	175929	3.10%	0.312%
77	21.180	3072	3076	3081	rVB	115669	169716	2.99%	0.301%
78	21.568	3138	3142	3148	rVB	248287	323755	5.70%	0.574%
79	21.733	3162	3170	3173	rBV2	368586	690430	12.16%	1.225%
80	21.768	3173	3176	3180	rVB	246040	314287	5.53%	0.557%
81	21.815	3180	3184	3188	rBV2	378105	552886	9.74%	0.981%
82	21.862	3189	3192	3198	rVB2	274091	411142	7.24%	0.729%
83	21.915	3198	3201	3205	rBV	120881	151101	2.66%	0.268%
84	22.086	3221	3230	3236	rBV3	1718973	3800839	66.93%	6.741%
85	22.139	3236	3239	3249	rVB	1681466	2391962	42.12%	4.242%
86	22.274	3257	3262	3267	rBV	285601	472181	8.31%	0.837%
87	22.333	3268	3272	3278	rVV4	101505	183596	3.23%	0.326%
88	22.445	3286	3291	3296	rBV	262434	393308	6.93%	0.698%
89	22.703	3332	3335	3339	rVB	154287	209414	3.69%	0.371%
90	22.939	3372	3375	3379	rVB4	124284	169823	2.99%	0.301%
91	23.039	3388	3392	3397	rBV	114316	188910	3.33%	0.335%
92	23.903	3531	3539	3544	rBV	1393335	3663812	64.52%	6.498%
93	24.097	3567	3572	3579	rVB	205641	374271	6.59%	0.664%
94	24.468	3629	3635	3641	rBV	746940	1600330	28.18%	2.838%
95	24.533	3642	3646	3649	rVV	283277	532978	9.39%	0.945%
96	24.586	3649	3655	3664	rVB	1055247	2391638	42.11%	4.242%
97	24.697	3668	3674	3679	rVV	349335	782079	13.77%	1.387%
98	24.756	3679	3684	3692	rVB	321391	692479	12.19%	1.228%
99	27.438	4130	4140	4152	rVB2	627516	2113201	37.21%	3.748%
100	28.297	4276	4286	4303	rVB	450443	1747867	30.78%	3.100%

Sum of corrected areas: 56382668

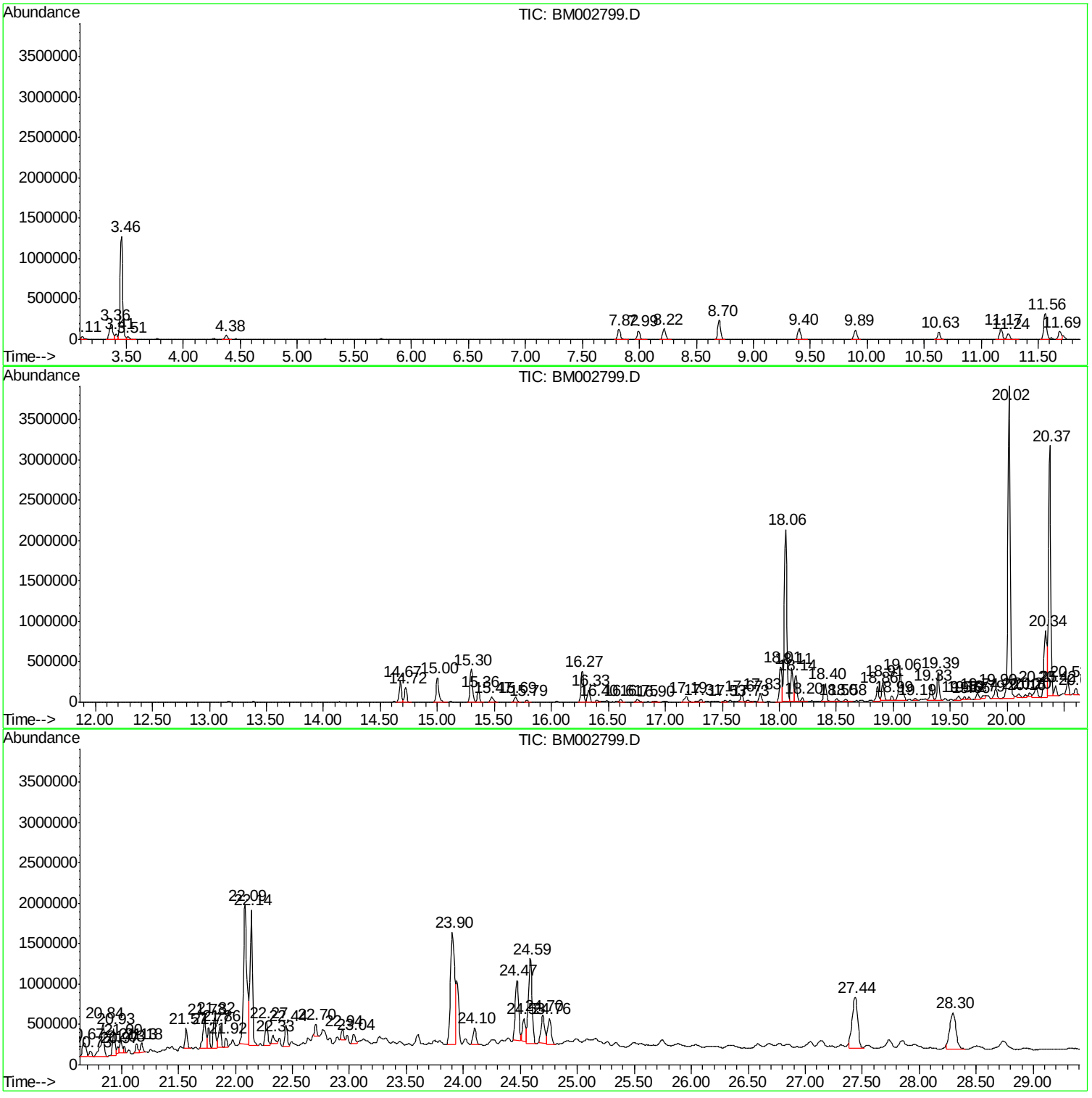
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

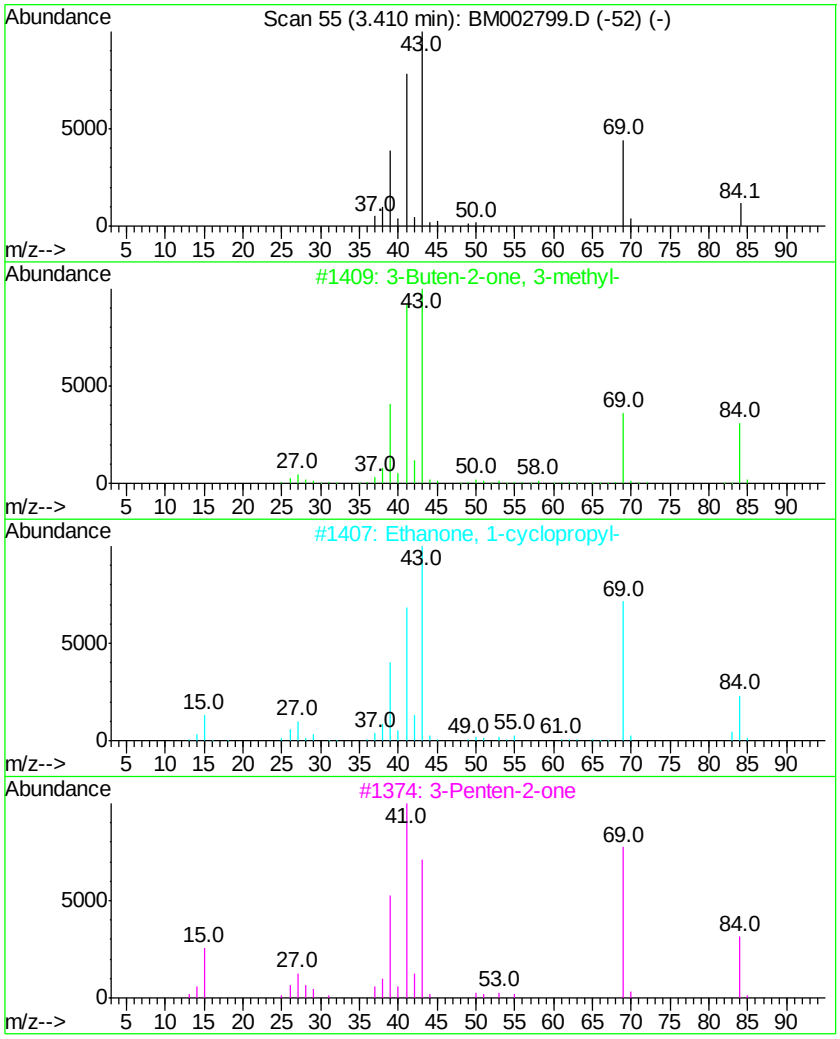
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

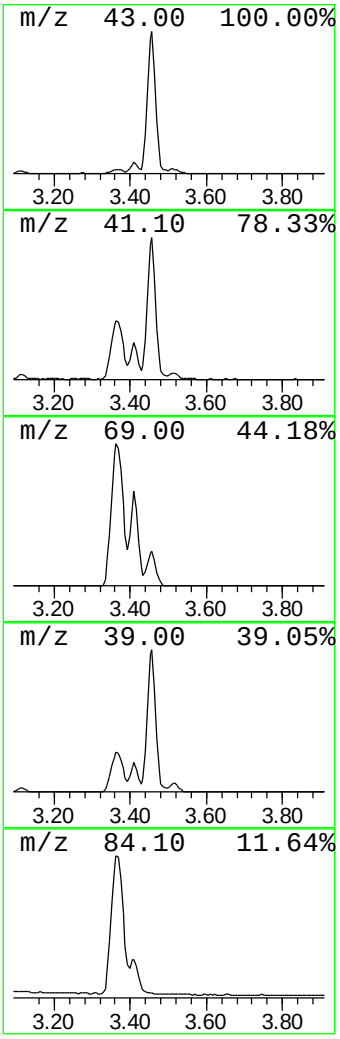
****

Peak Number 2 3-Buten-2-one, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.41	4.96 ng/ul	99638	1,4-Dichlorobenzene-d4	8.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	64
2	Ethanone, 1-cyclopropyl-	84	C5H8O	000765-43-5	56
3	3-Penten-2-one	84	C5H8O	000625-33-2	38
4	2-Pentene, 4-methyl-	84	C6H12	004461-48-7	16
5	4-Penten-2-one	84	C5H8O	013891-87-7	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

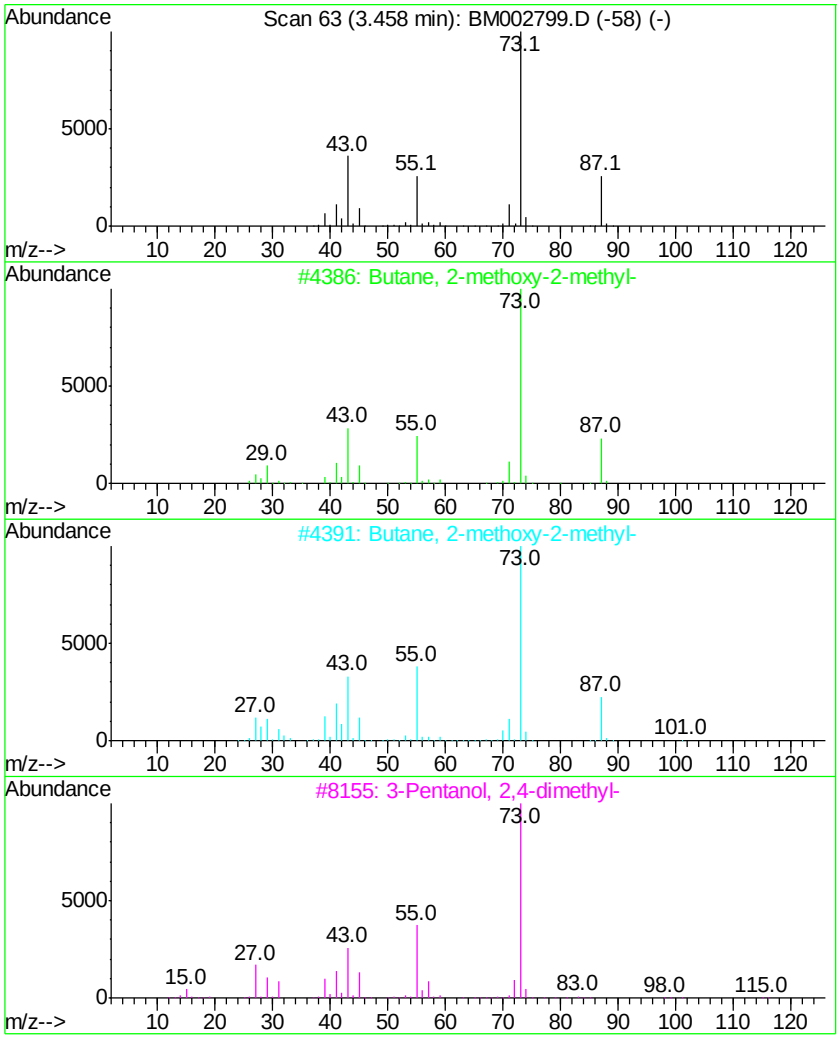
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

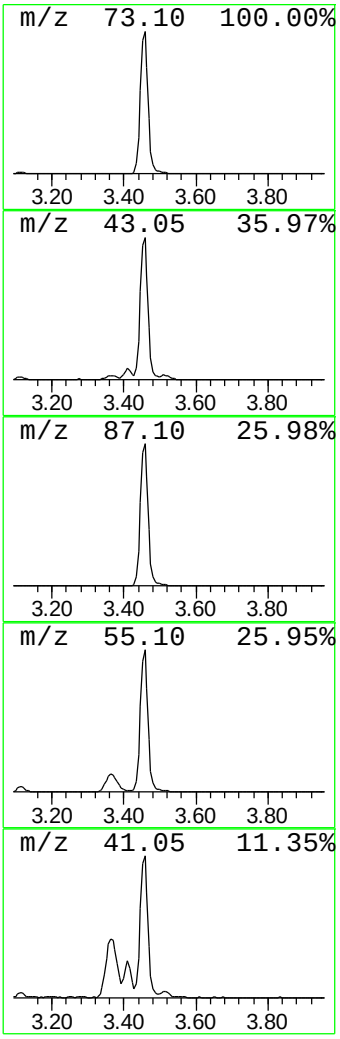
****

Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.46	95.86 ng/ul	1926850	1,4-Dichlorobenzene-d4	8.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	74
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

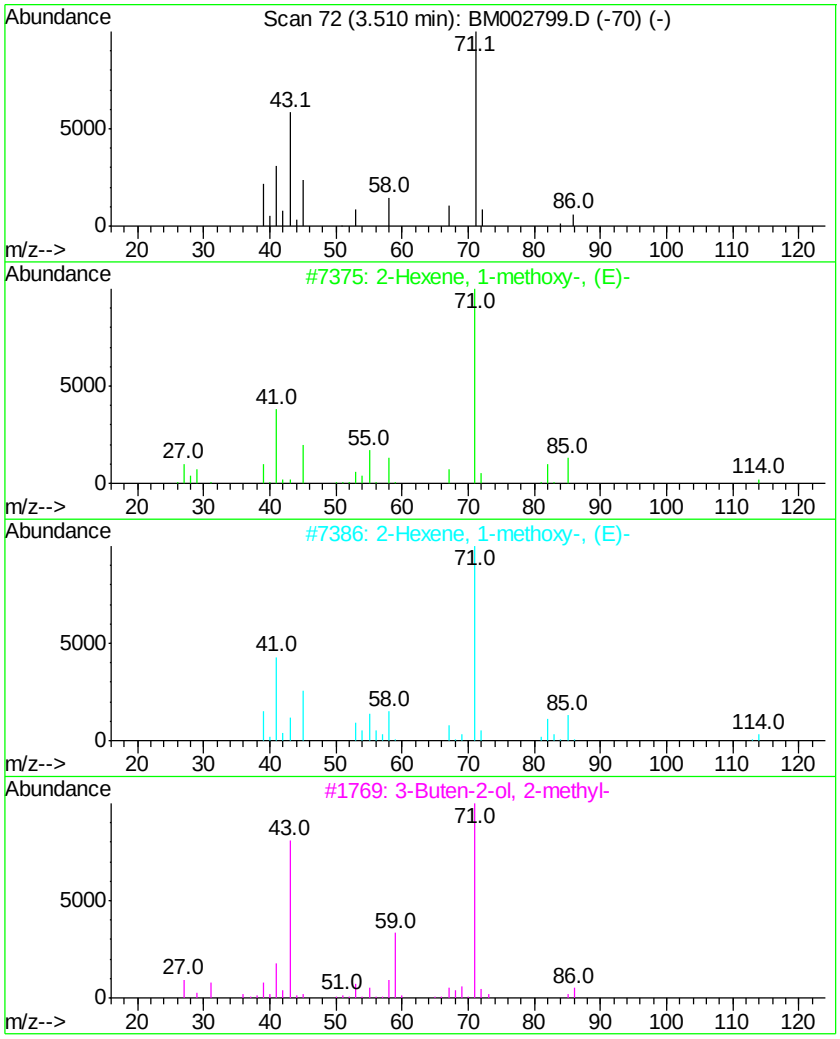
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

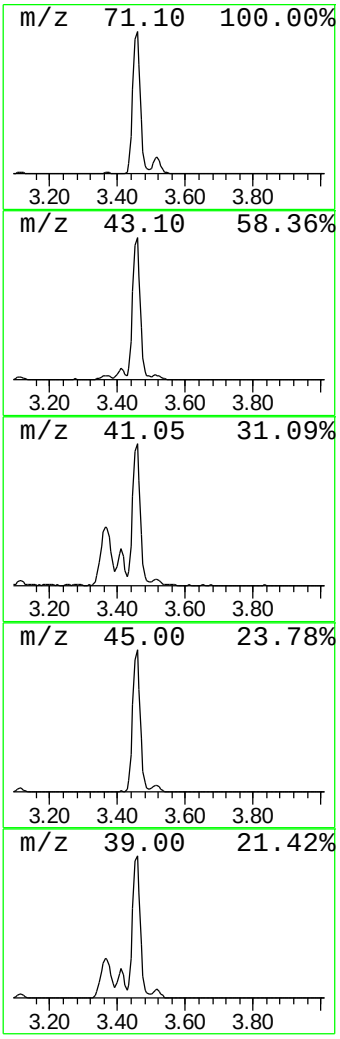
****

Peak Number 4 2-Hexene, 1-methoxy-, (E)- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.51	2.41 ng/ul	48390	1,4-Dichlorobenzene-d4	8.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, 1-methoxy-, (E)-	114	C7H14O	056052-83-6	72
2	2-Hexene, 1-methoxy-, (E)-	114	C7H14O	056052-83-6	72
3	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	53
4	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	50
5	Cyclopropanemethanol, .alpha.-bu...	128	C8H16O	004379-16-2	45





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

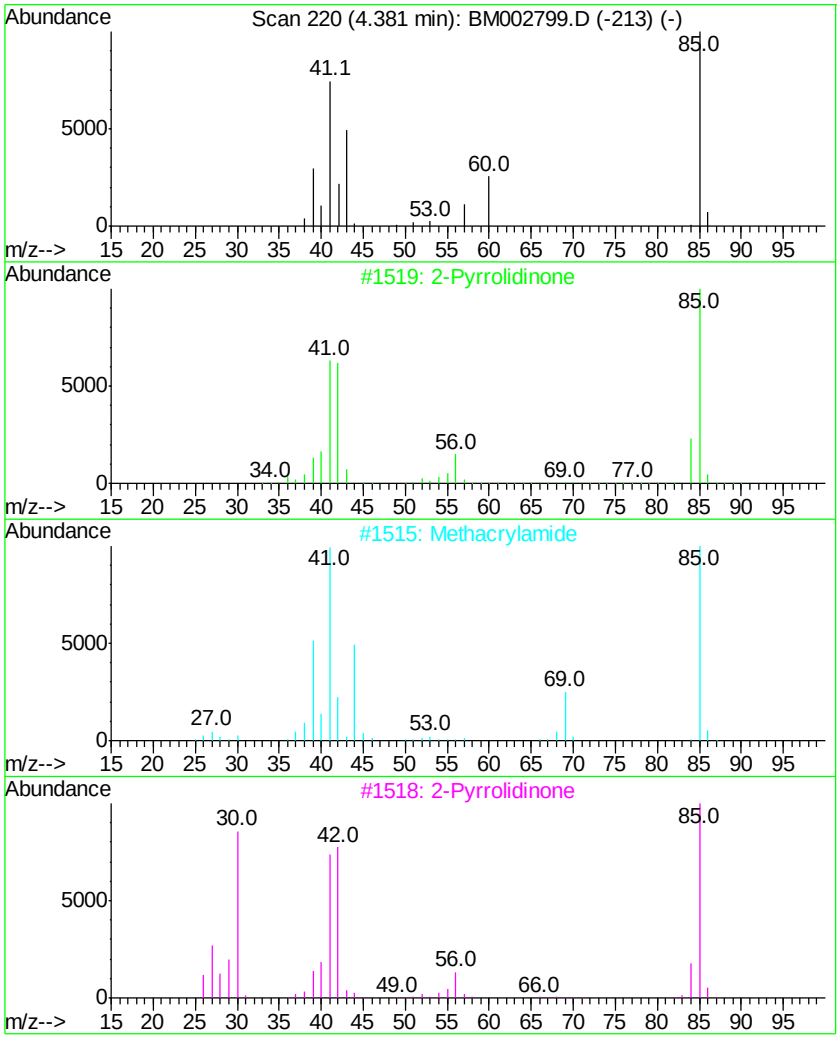
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

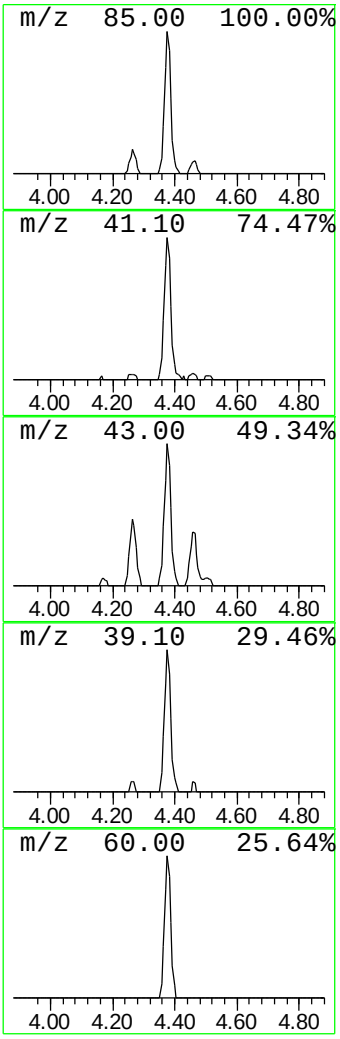
****

Peak Number 5 unknown-01 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.38	4.00 ng/ul	80441	1,4-Dichlorobenzene-d4	8.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyrrolidinone	85	C4H7NO	000616-45-5	40
2	Methacrylamide	85	C4H7NO	000079-39-0	36
3	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9
4	Oxirane, (2-methylpropyl)-	100	C6H12O	023850-78-4	9
5	Butane, 1-isocyano-	83	C5H9N	002769-64-4	9





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

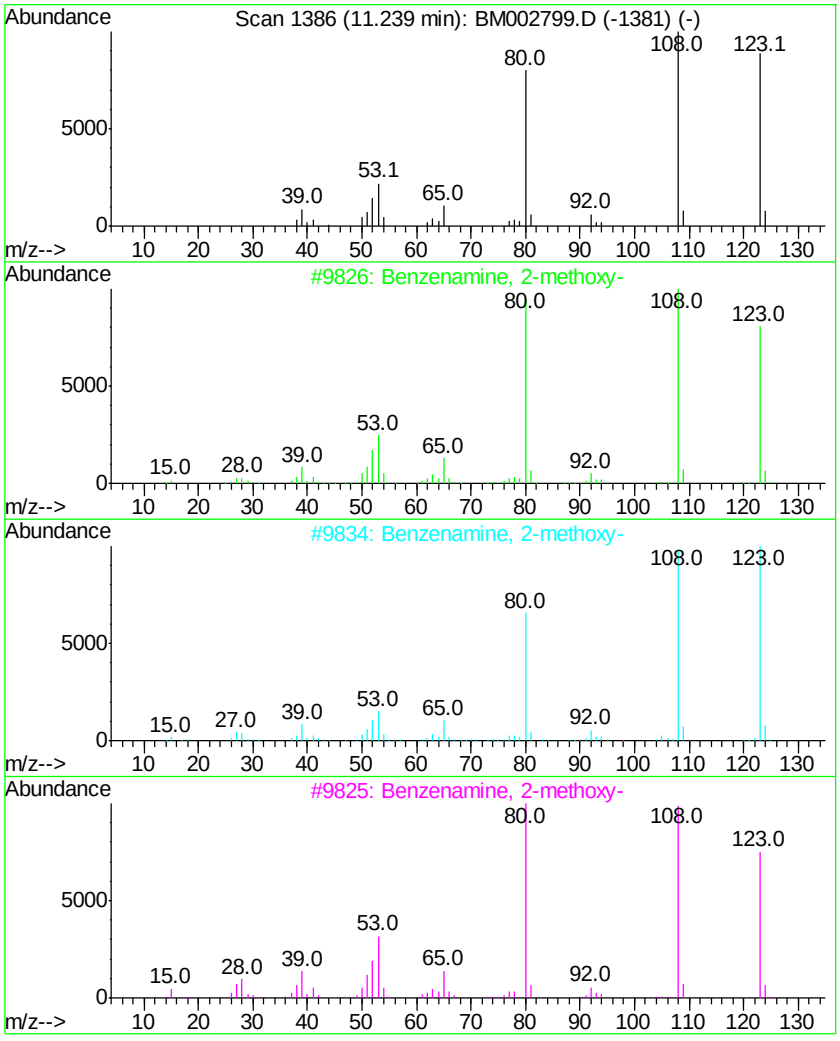
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

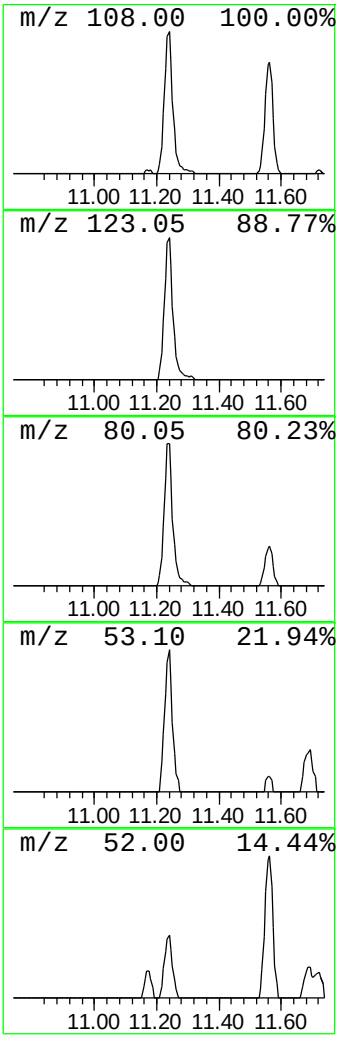
****

Peak Number 6 Benzenamine, 2-methoxy- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	4.97 ng/ul	139752	Naphthalene-d8	11.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-methoxy-	123	C7H9NO	000090-04-0	97
2	Benzenamine, 2-methoxy-	123	C7H9NO	000090-04-0	94
3	Benzenamine, 2-methoxy-	123	C7H9NO	000090-04-0	94
4	1,4-Benzenediamine	108	C6H8N2	000106-50-3	72
5	1,2-Benzenediamine	108	C6H8N2	000095-54-5	64





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

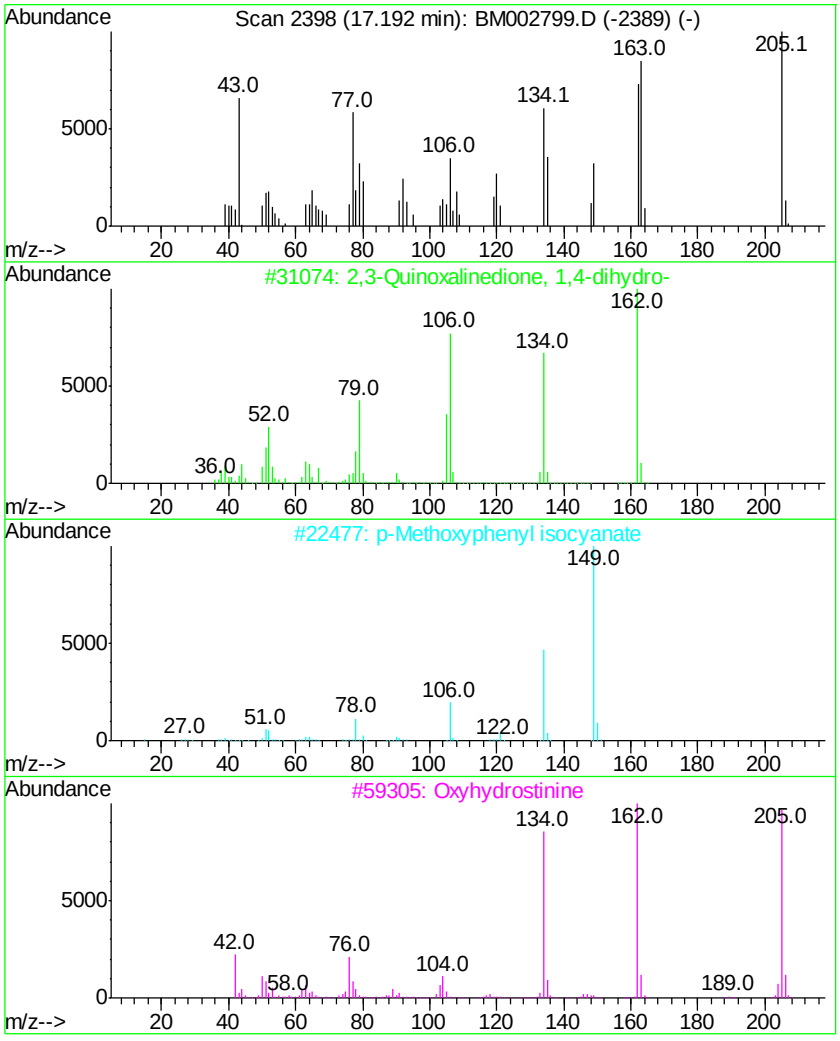
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

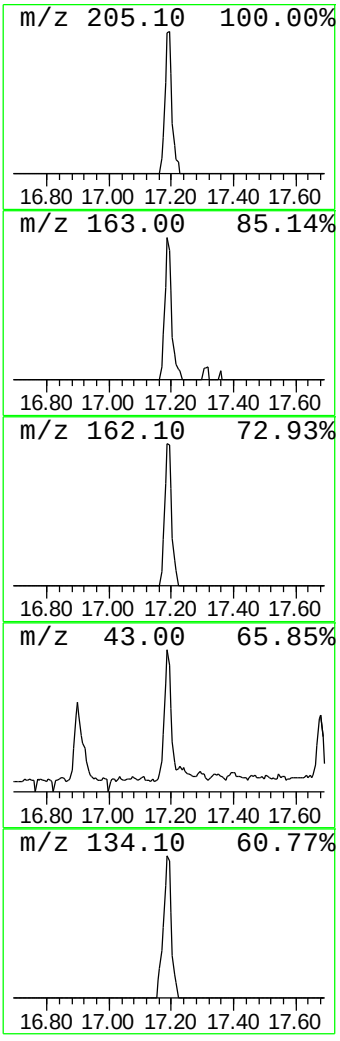
****

Peak Number 7 unknown-02 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.19	4.55 ng/ul	148882	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Quinoxalinedione, 1,4-dihydro-	162	C8H6N2O2	015804-19-0	43
2	p-Methoxyphenyl isocyanate	149	C8H7NO2	002983-74-6	42
3	Oxyhydrostinine	205	C11H11NO3	000552-29-4	42
4	6(5H)-Pteridinone, 4-methyl-	162	C7H6N4O	016041-28-4	38
5	2,3-Dihydro-7-methyl-1,4-benzoxa...	163	C9H9NO2	039522-25-3	38





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

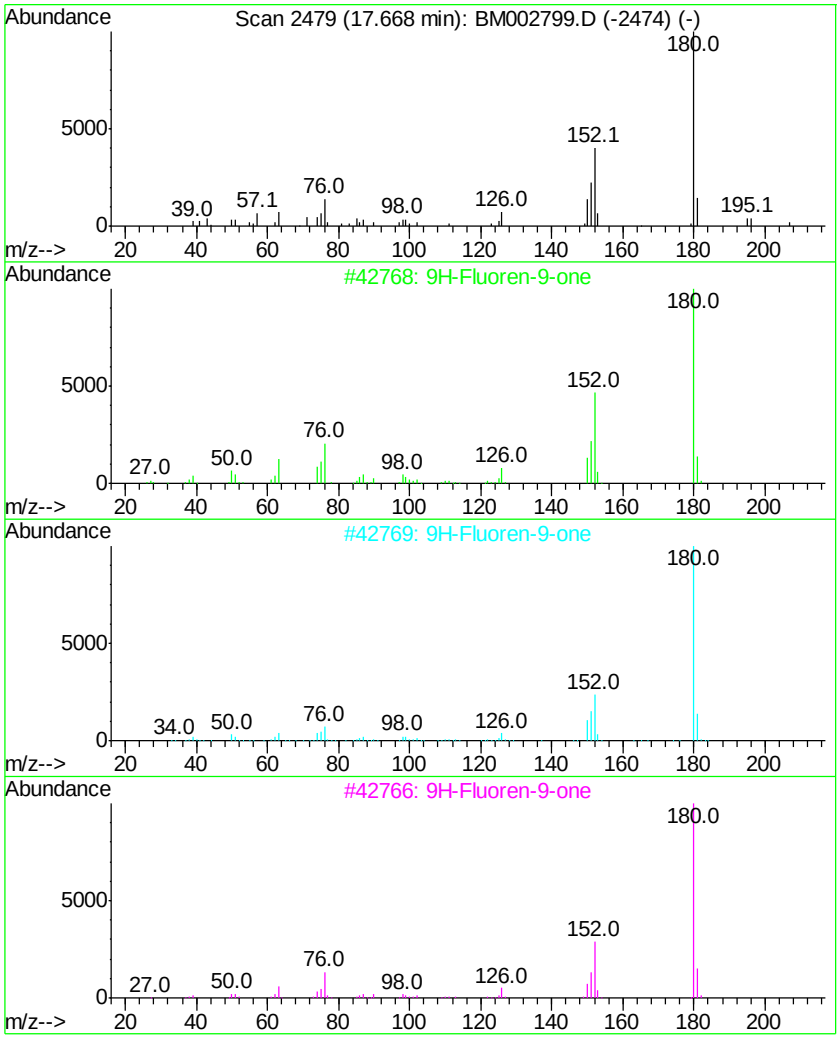
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

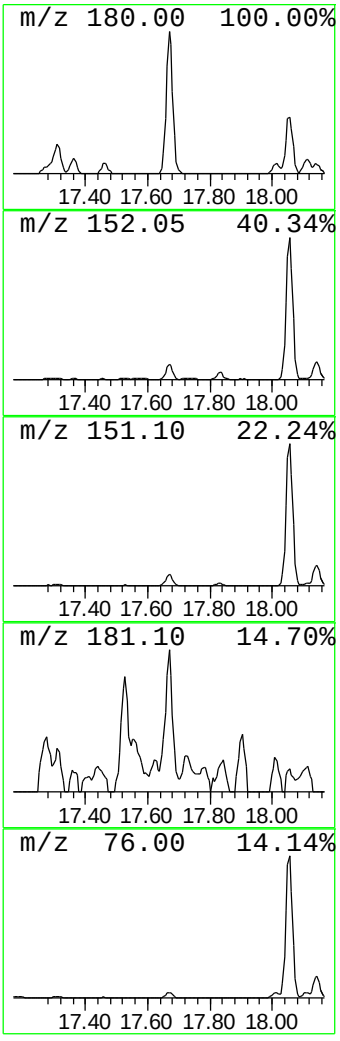
****

Peak Number 8 9H-Fluoren-9-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	3.71 ng/ul	121575	Phenanthrene-d10	18.01

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	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

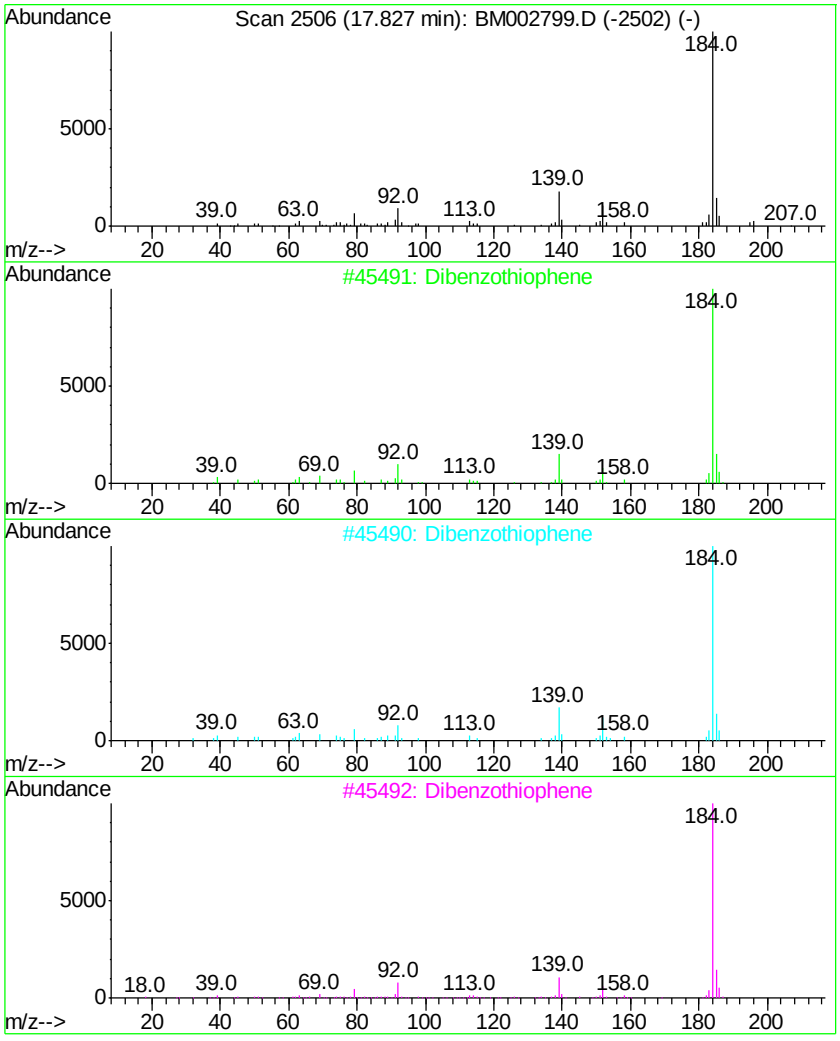
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

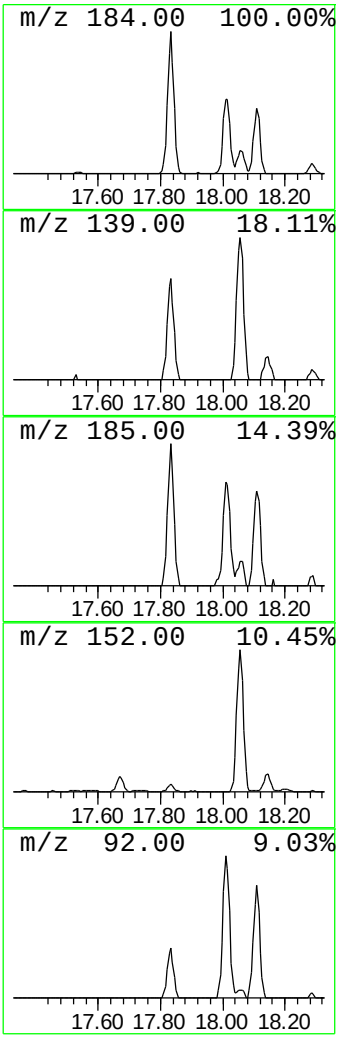
****

Peak Number 9 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	4.74 ng/ul	155086	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

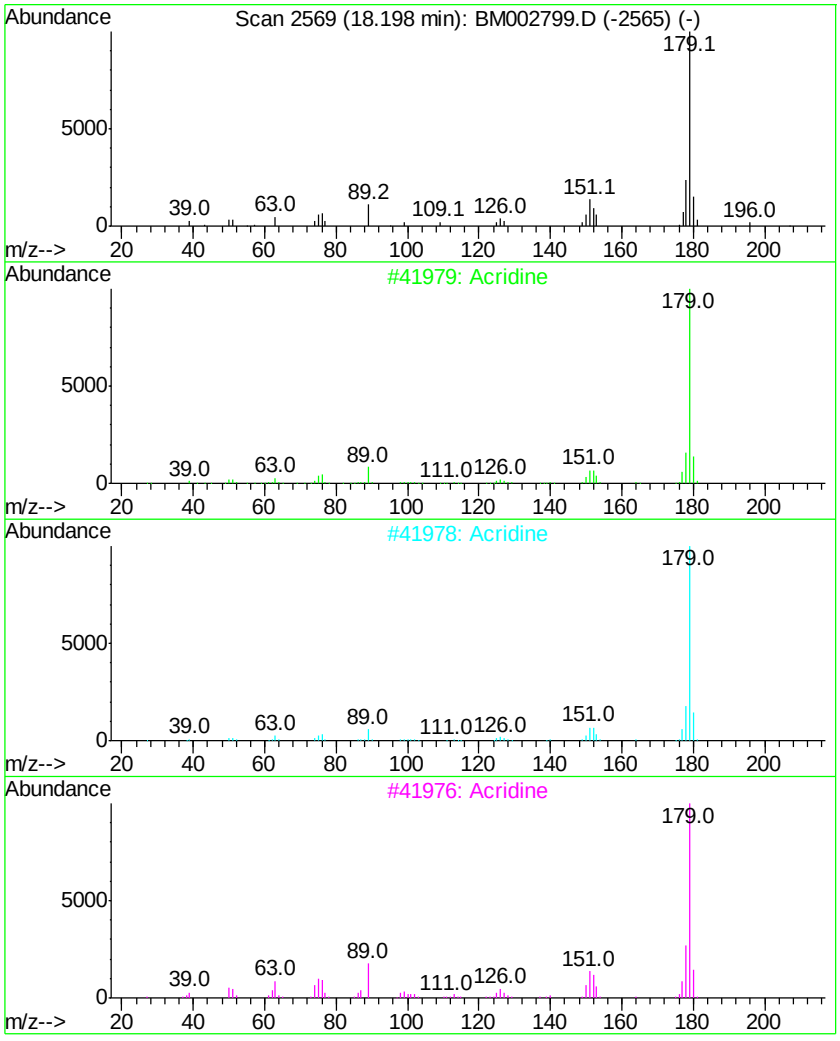
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

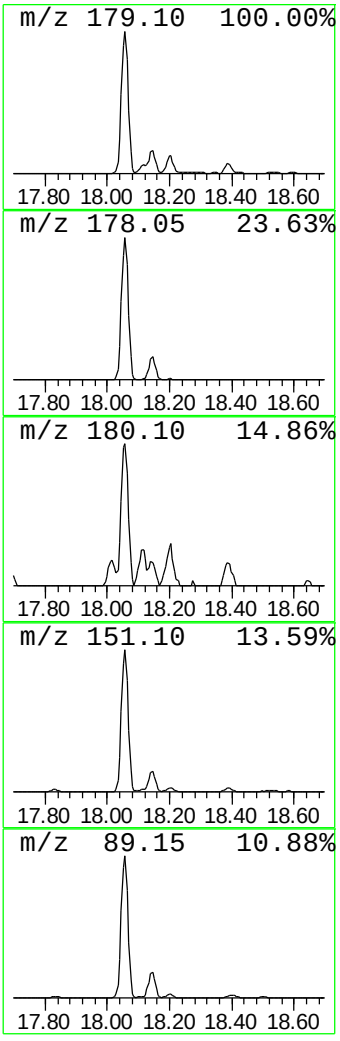
****

Peak Number 10 Acridine Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.20	2.19 ng/ul	71856	Phenanthrene-d10	18.01

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	p-Phenylbenzonitrile	179	C13H9N	002920-38-9	94
5	Benzo[g]quinoline	179	C13H9N	000260-36-6	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

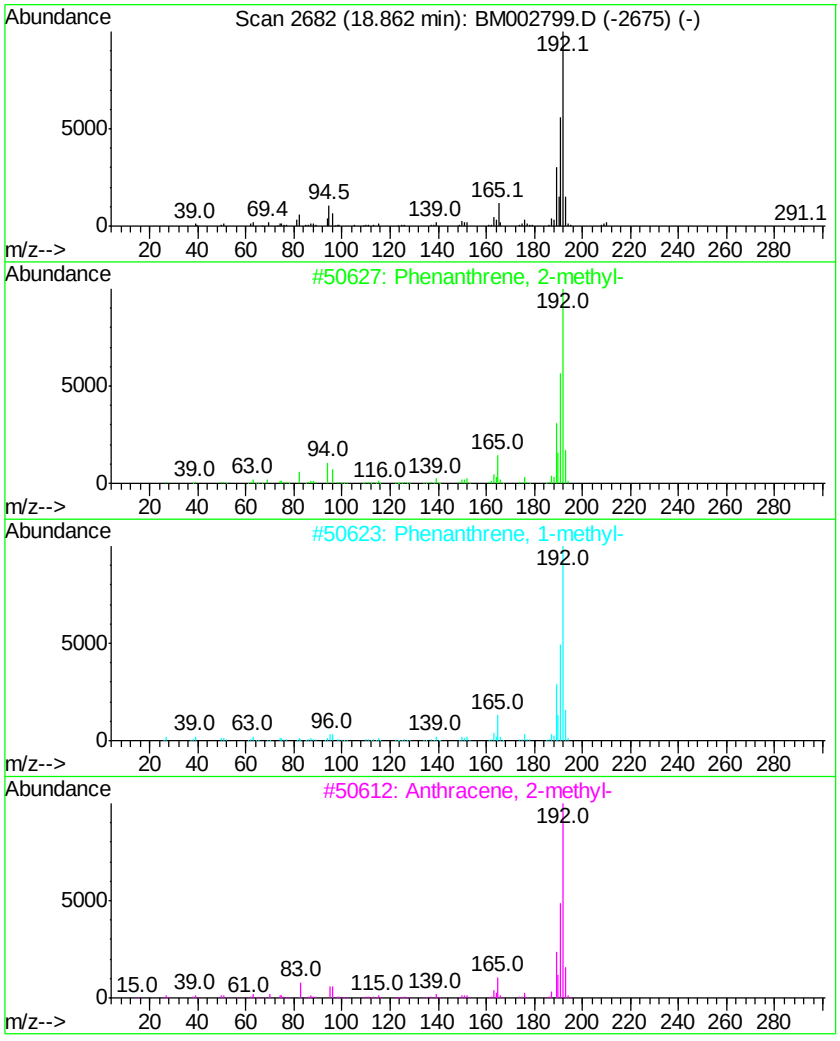
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

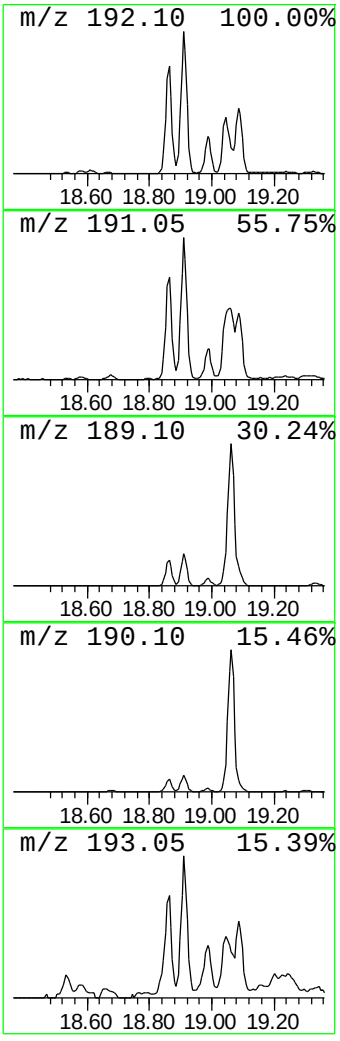
****

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	8.11 ng/ul	265494	Phenanthrene-d10	18.01

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





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

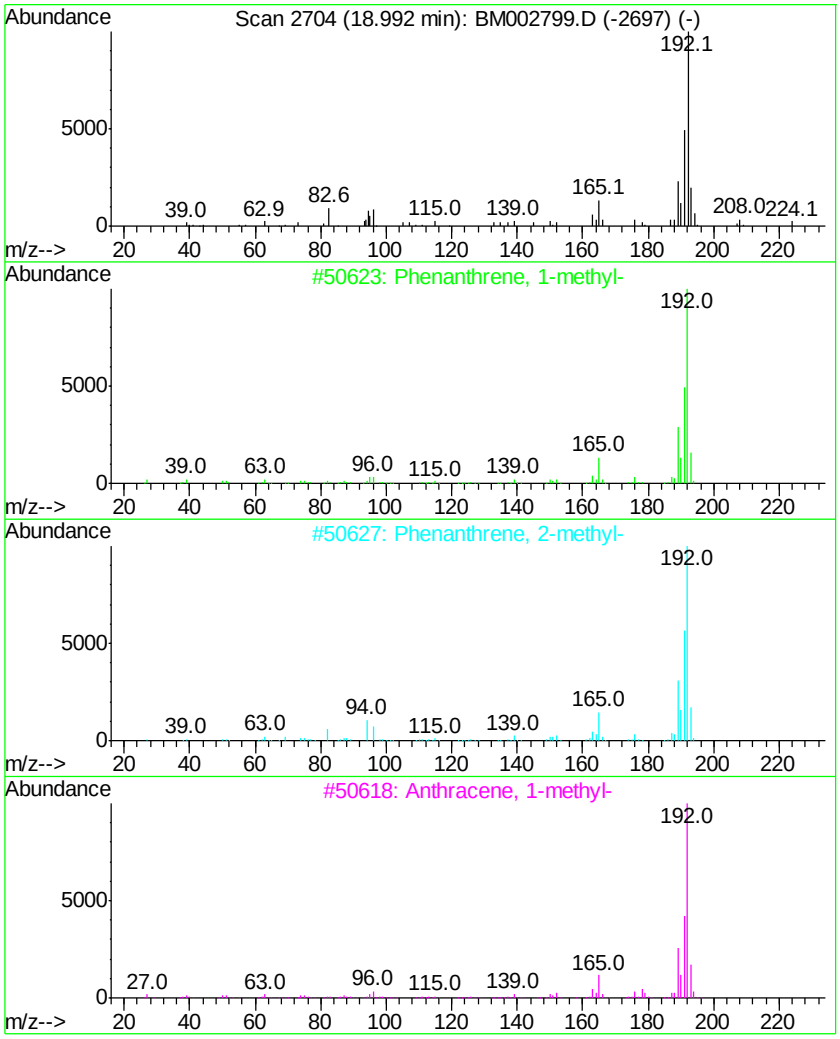
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

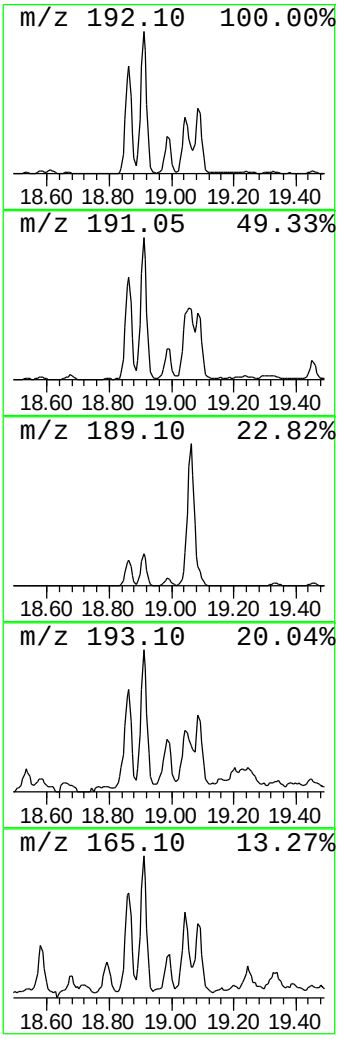
****

Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	2.65 ng/ul	86606	Phenanthrene-d10	18.01

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	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

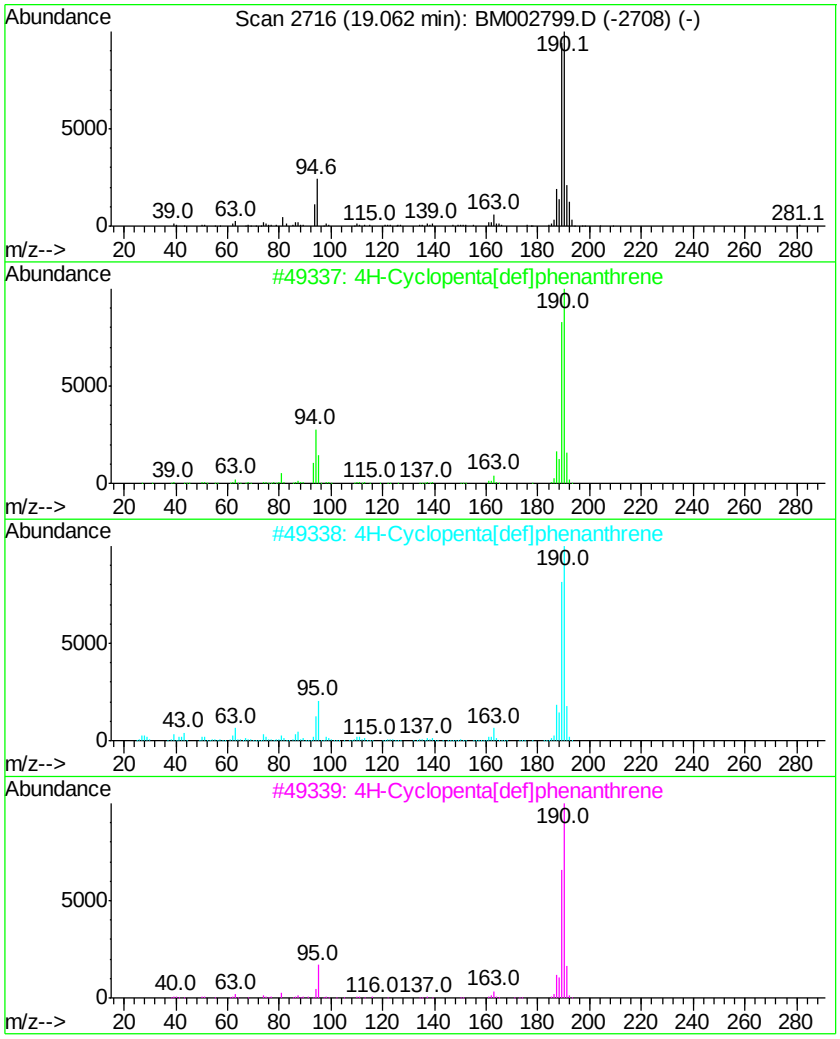
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

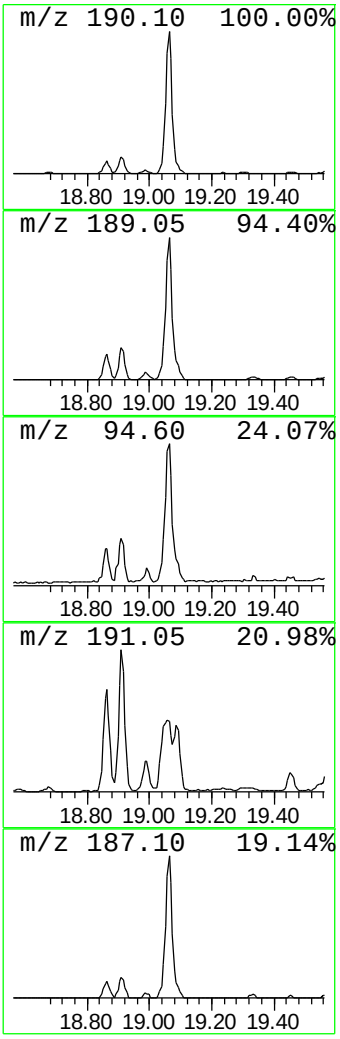
****

Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.06	21.90 ng/ul	716999	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	96
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
5	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

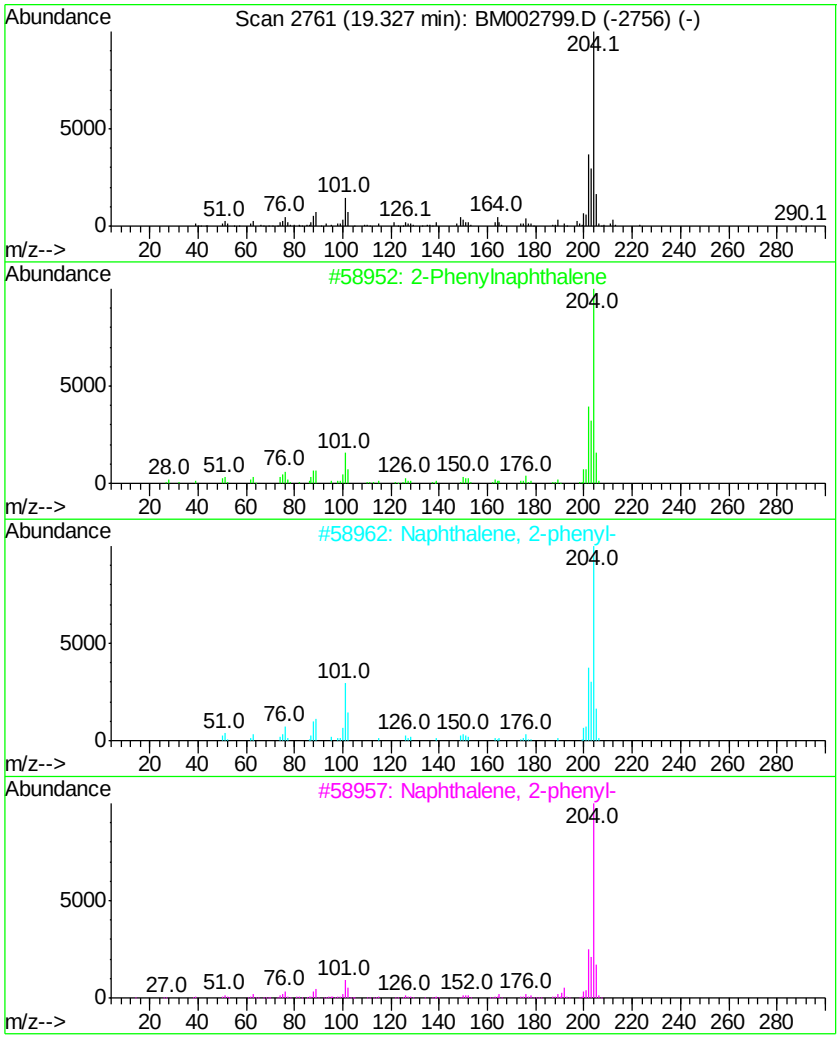
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

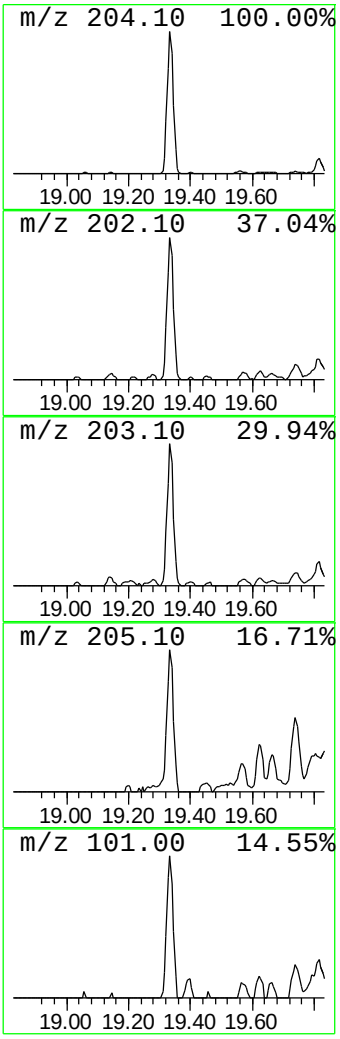
****

Peak Number 15 2-Phenylnaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.33	8.84 ng/ul	289323	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	96
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	92
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

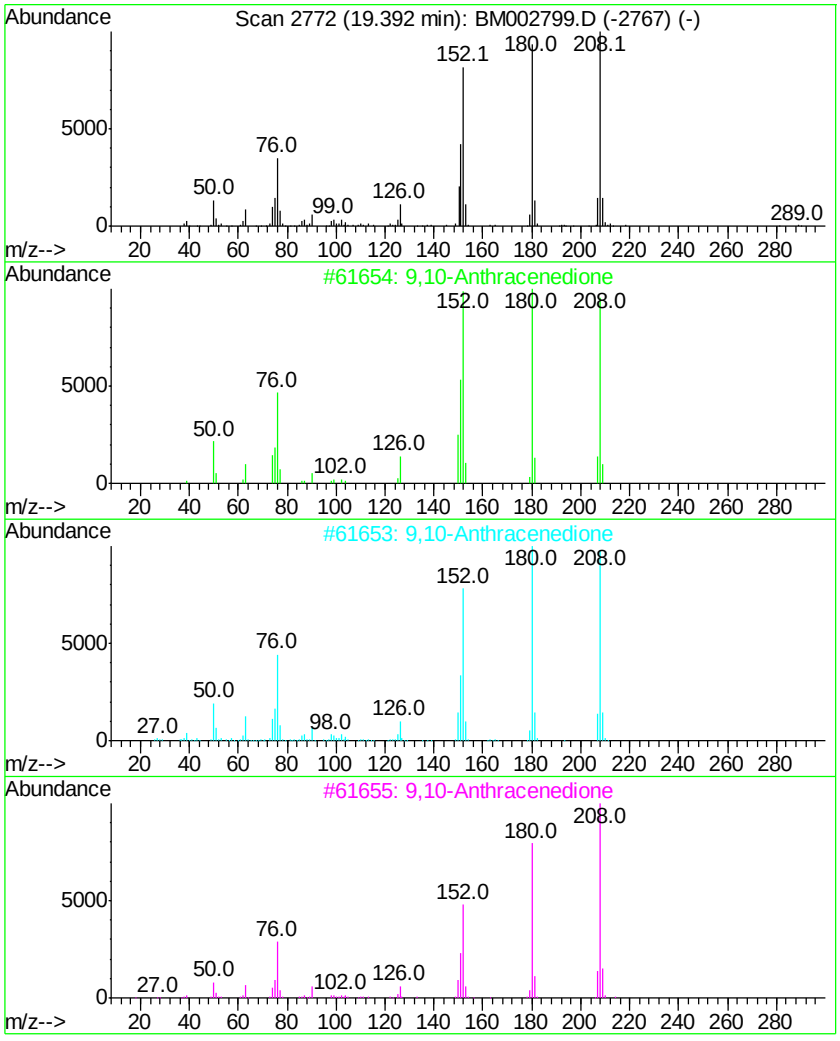
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

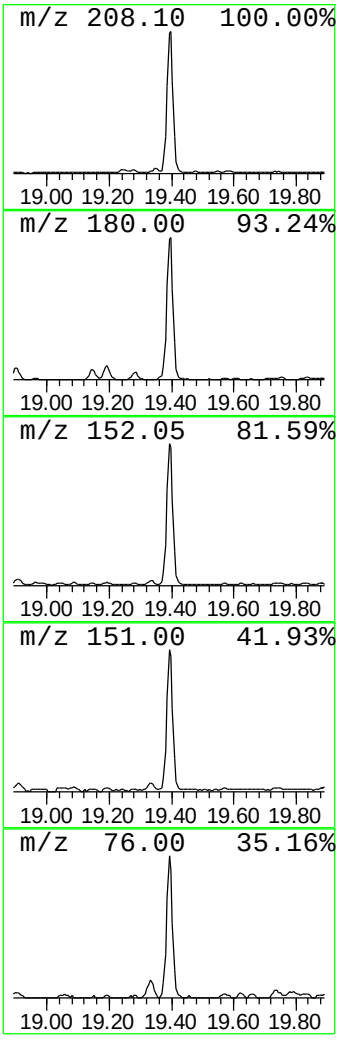
****

Peak Number 16 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	14.88 ng/ul	487102	Phenanthrene-d10	18.01

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	96
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

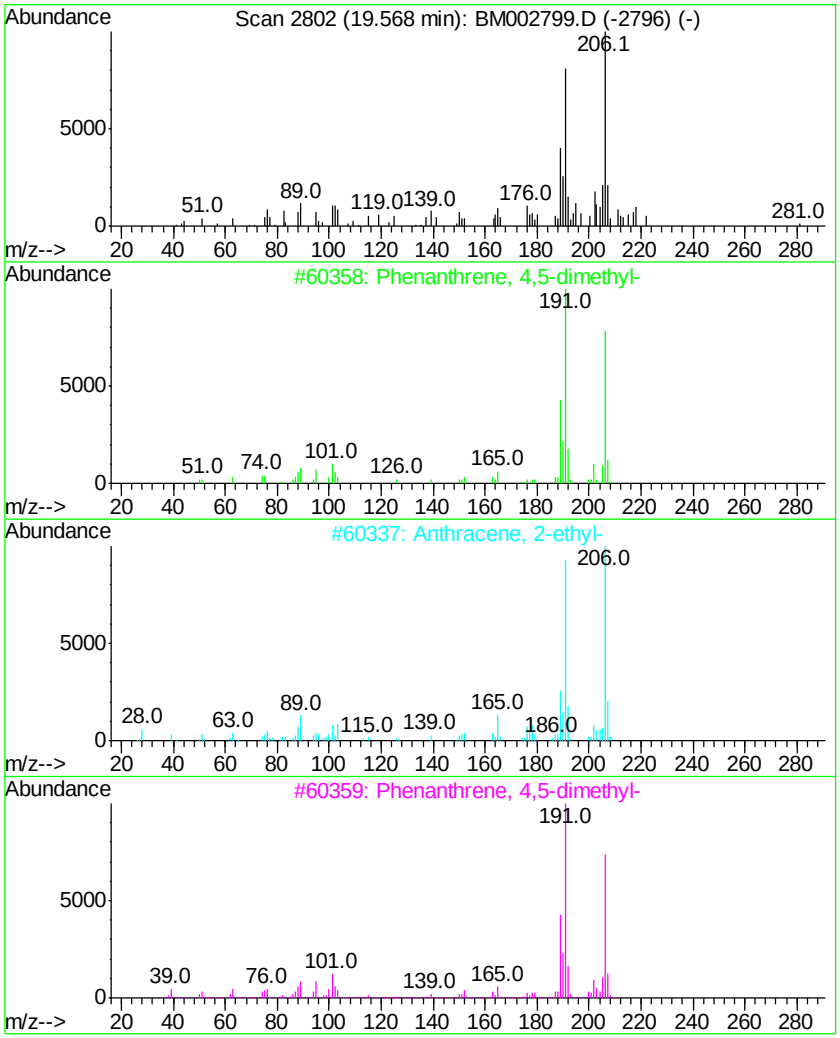
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

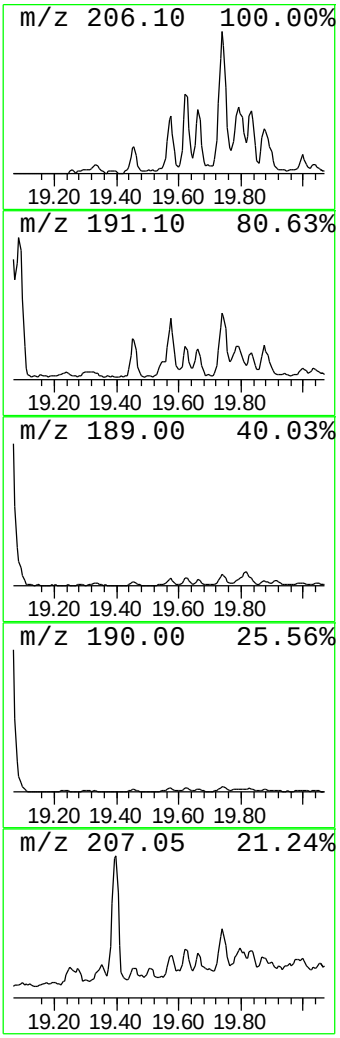
****

Peak Number 17 Phenanthrene, 4,5-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.57	2.31 ng/ul	75574	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	96
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

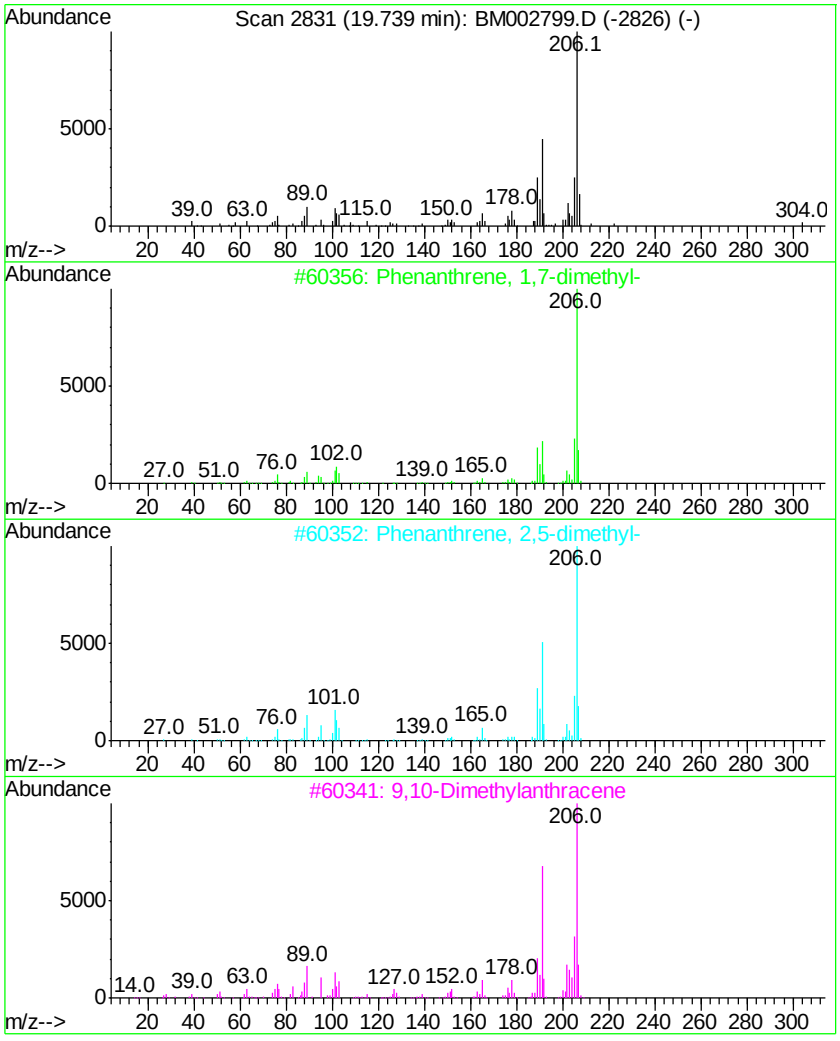
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

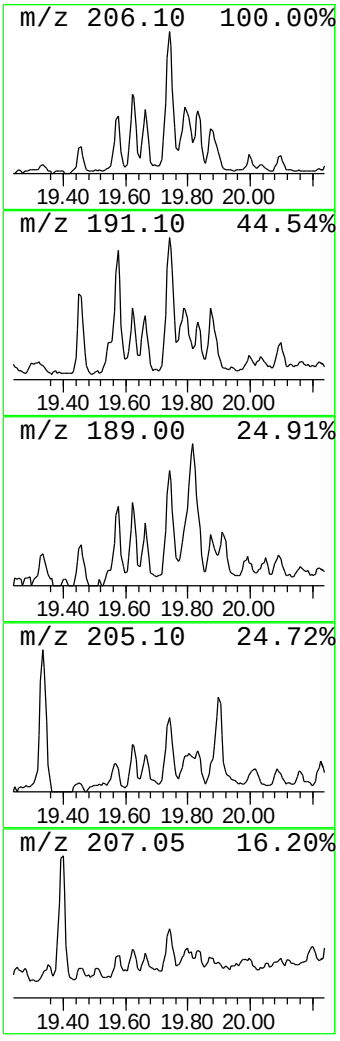
****

Peak Number 18 Phenanthrene, 1,7-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.74	3.90 ng/ul	127787	Phenanthrene-d10	18.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

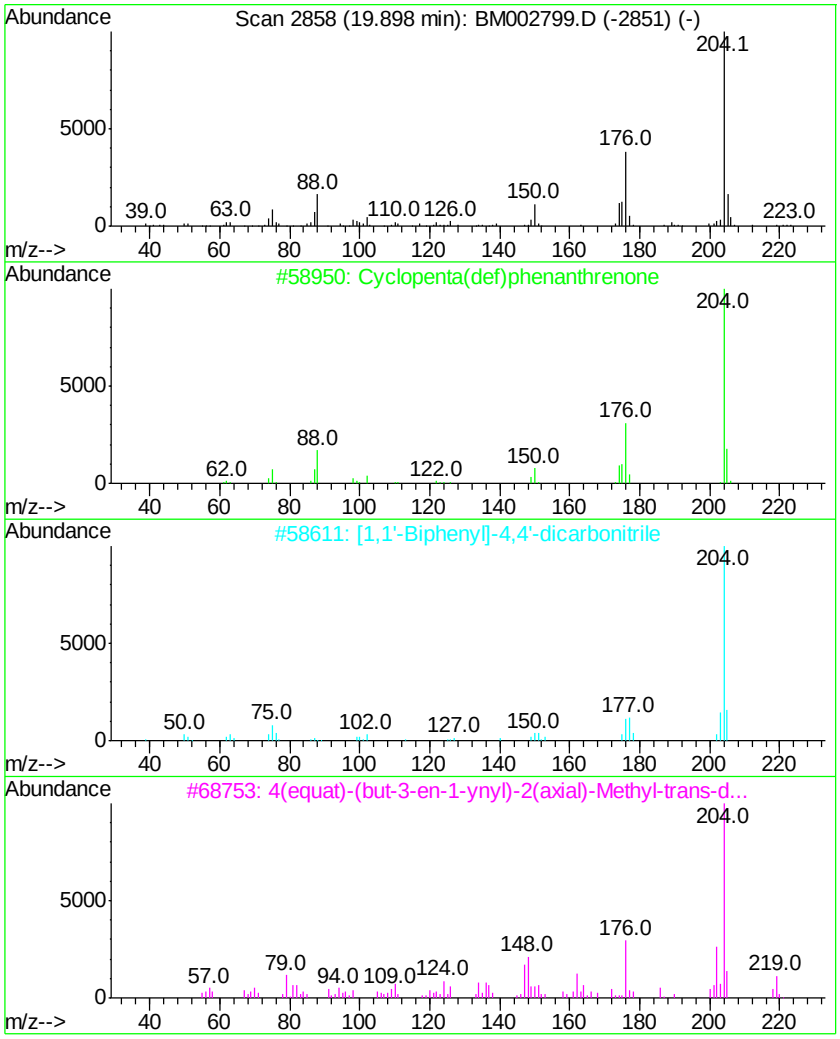
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

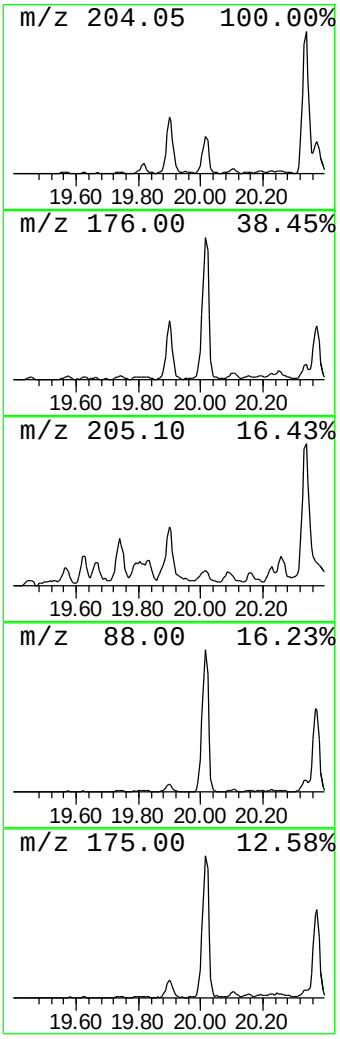
****

Peak Number 20 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.90	6.31 ng/ul	206666	Phenanthrene-d10	18.01

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	53
3	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	45
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	40
5	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	39





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

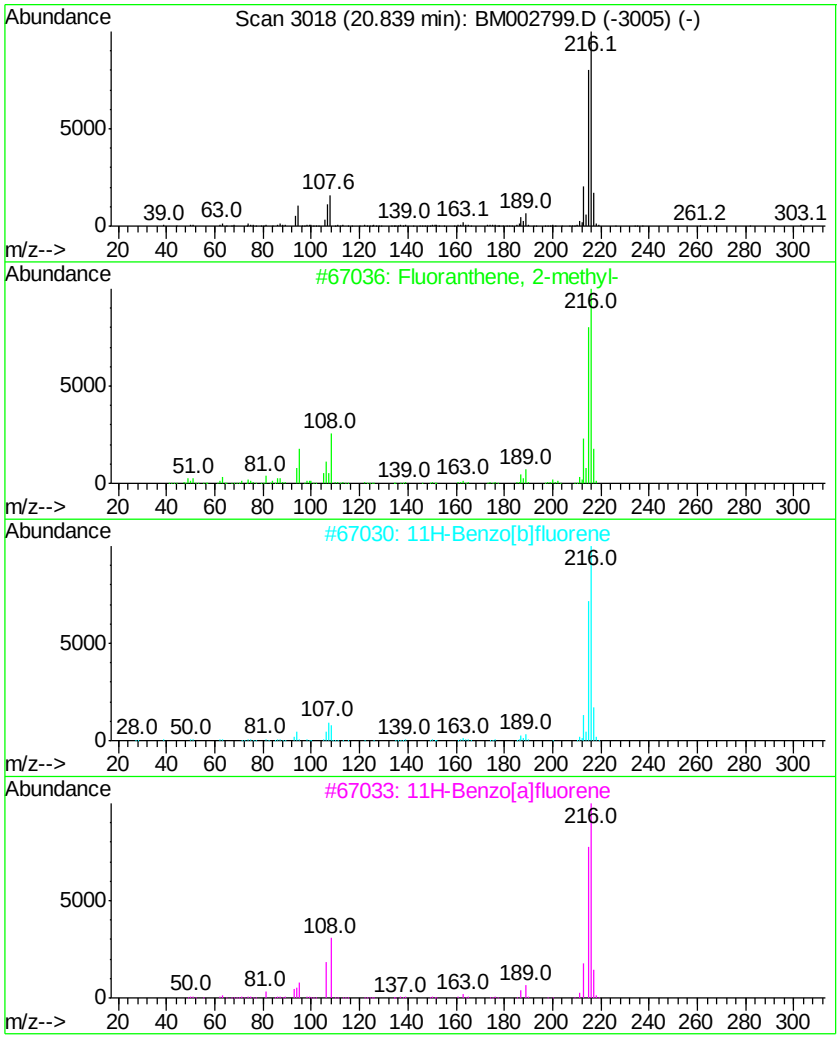
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

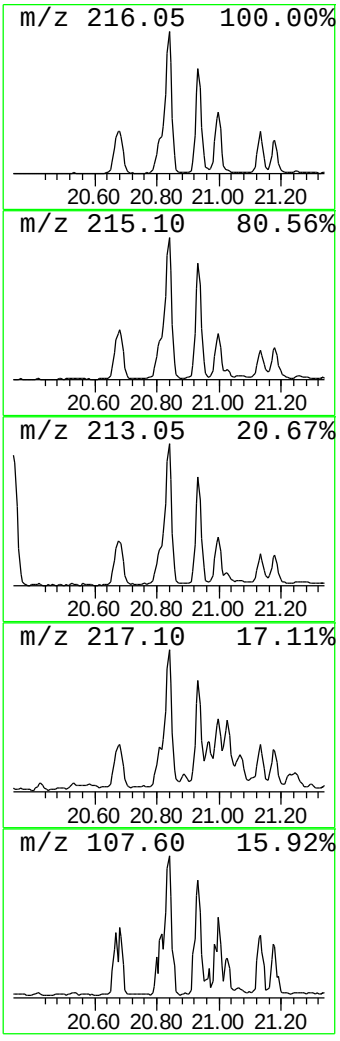
****

Peak Number 21 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.84	4.32 ng/ul	821828	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
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	87





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

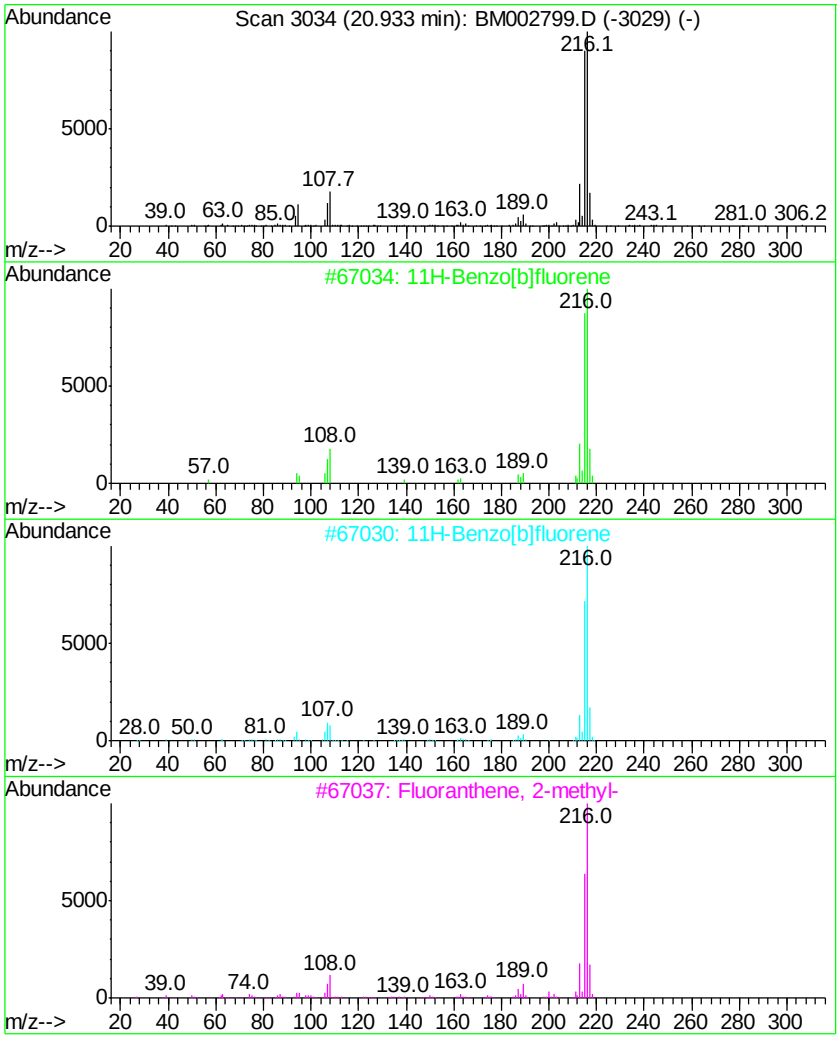
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

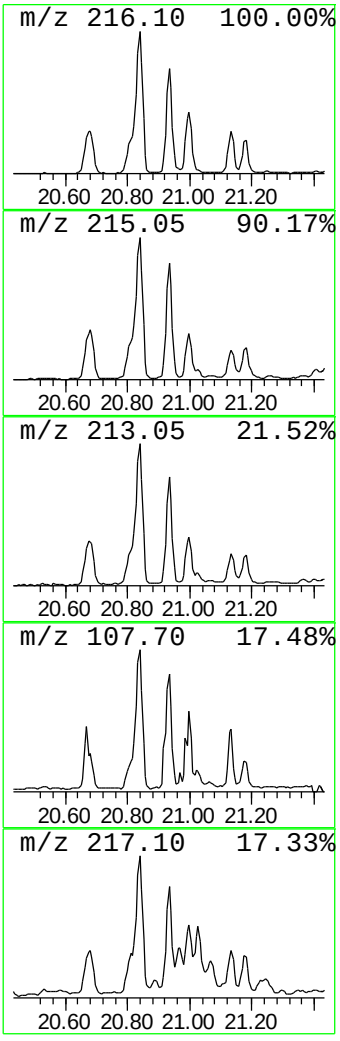
****

Peak Number 22 11H-Benzo[b]fluorene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.93	2.35 ng/ul	446890	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

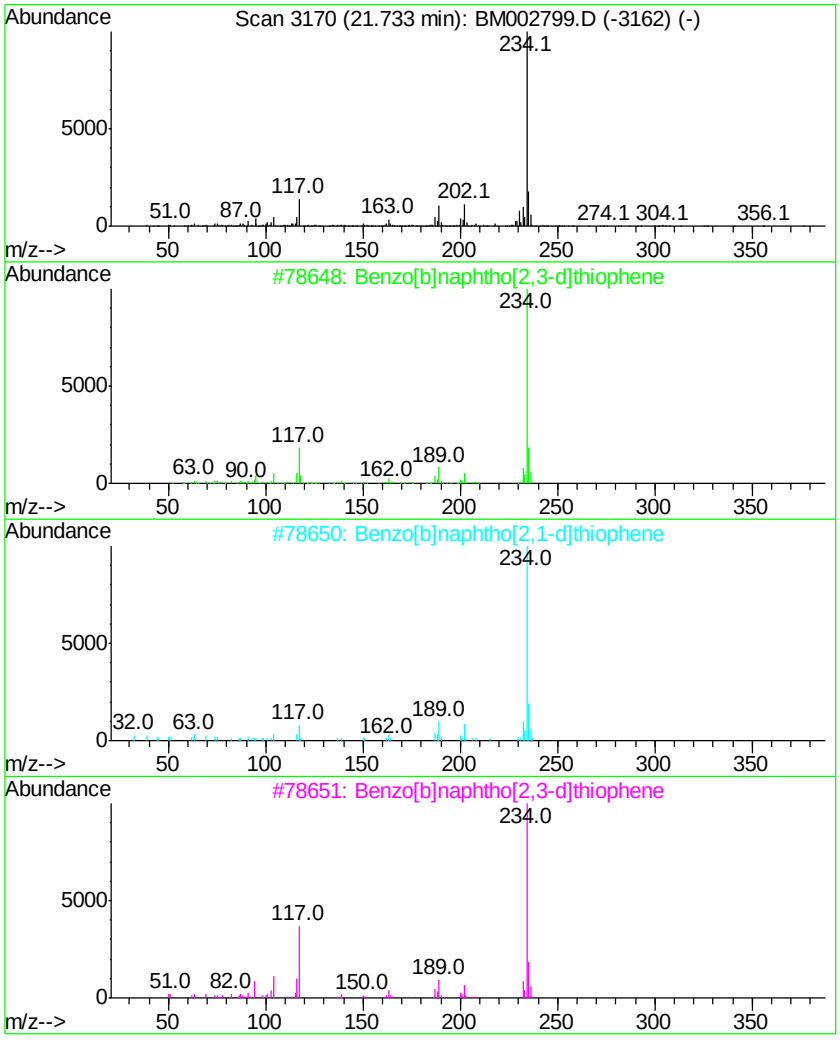
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

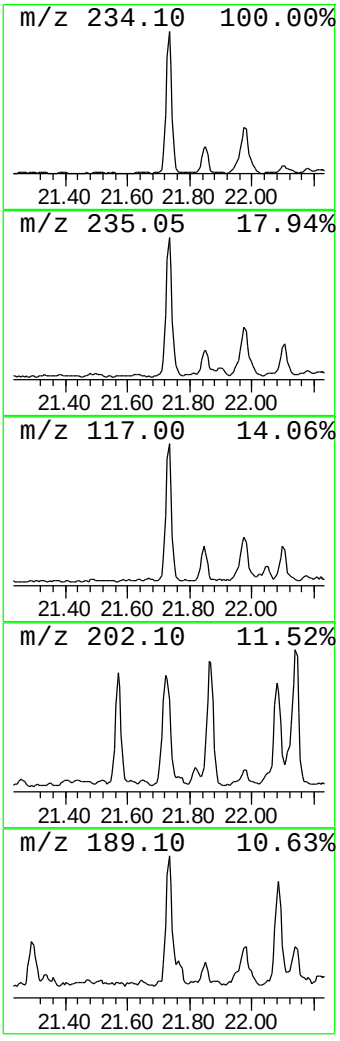
****

Peak Number 23 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.73	3.63 ng/ul	690430	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

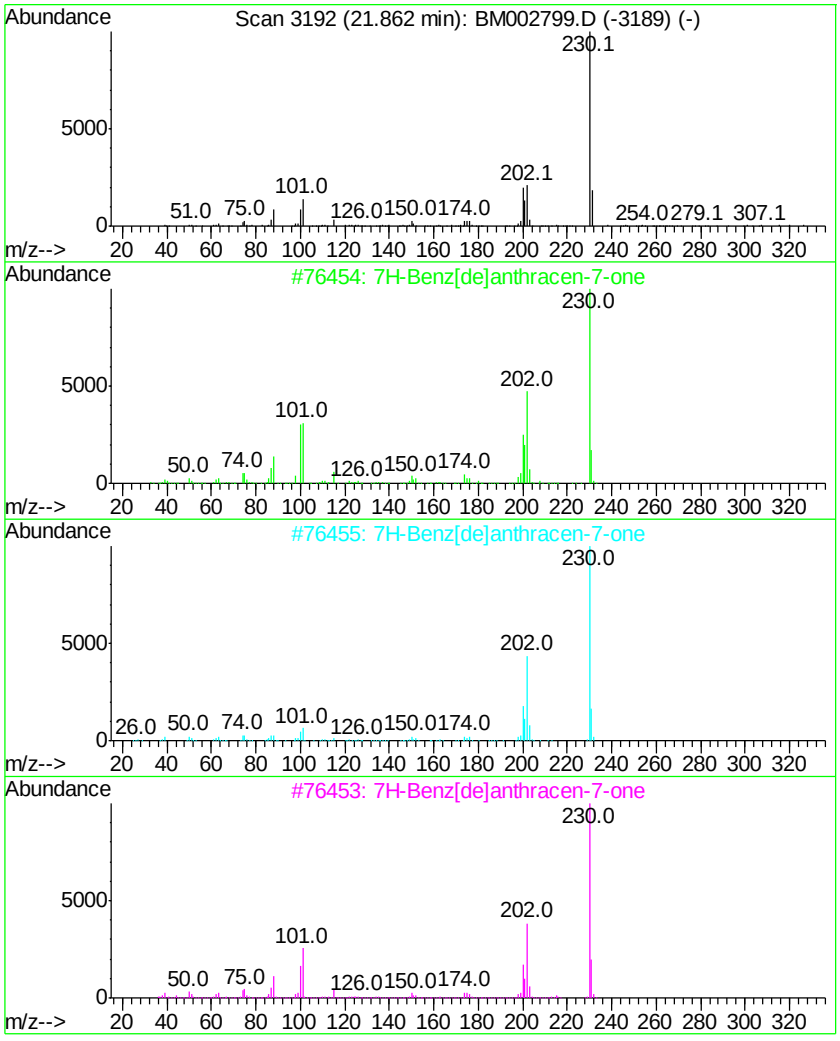
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

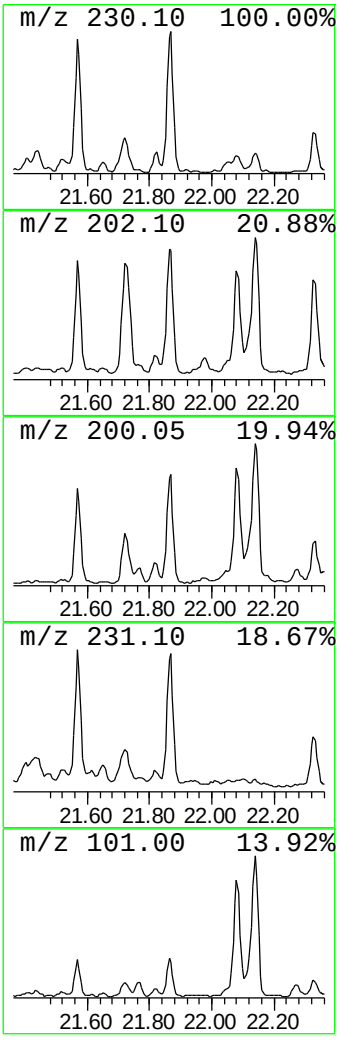
****

Peak Number 25 7H-Benz[de]anthracen-7-one Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.86	2.16 ng/ul	411142	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	78





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

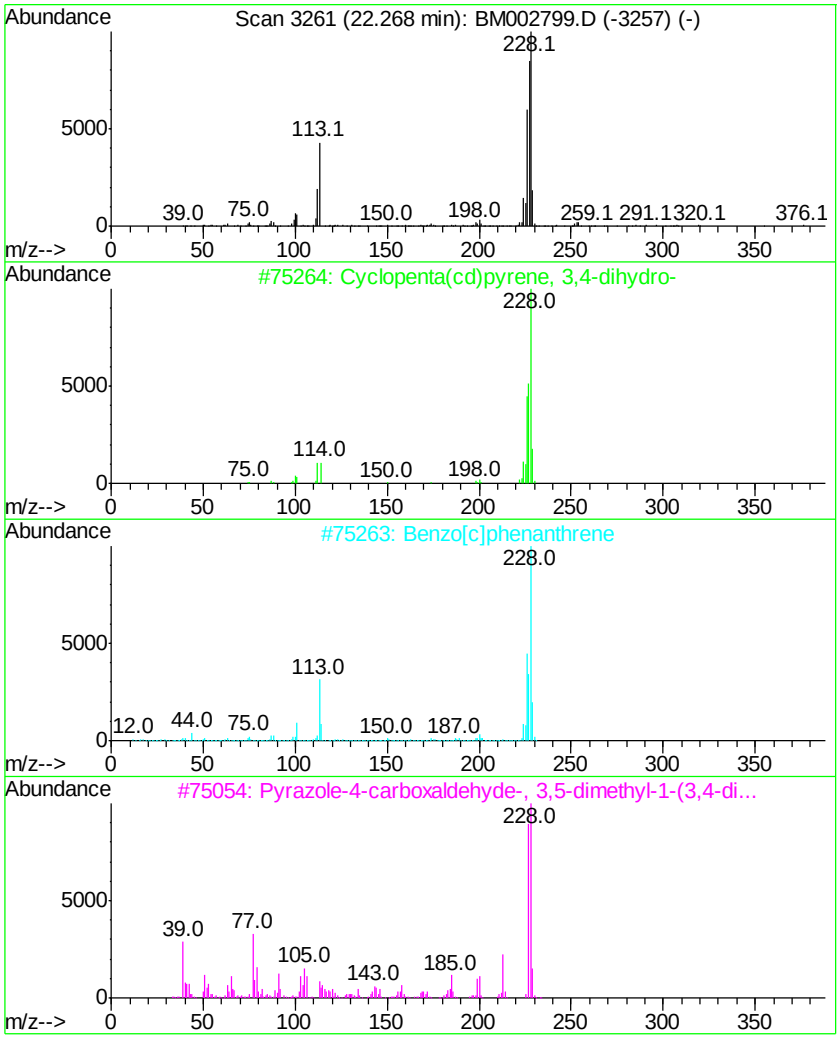
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

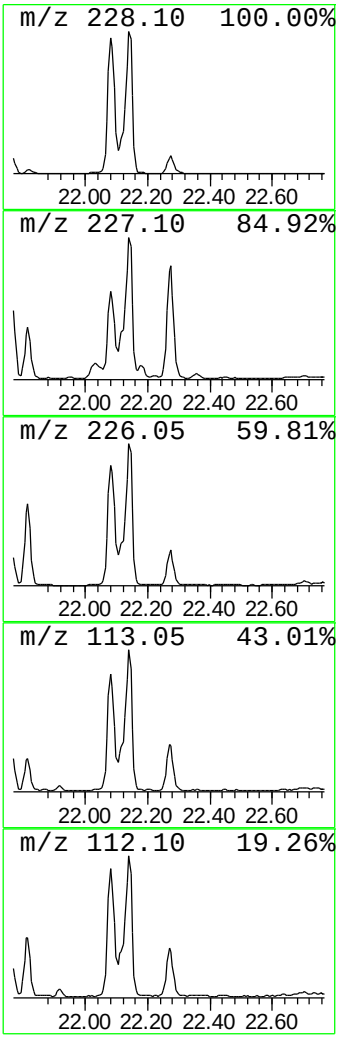
****

Peak Number 26 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.27	2.48 ng/ul	472181	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	87
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
4	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
5	Triphenylene	228	C18H12	000217-59-4	38





Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA CALIBRATION

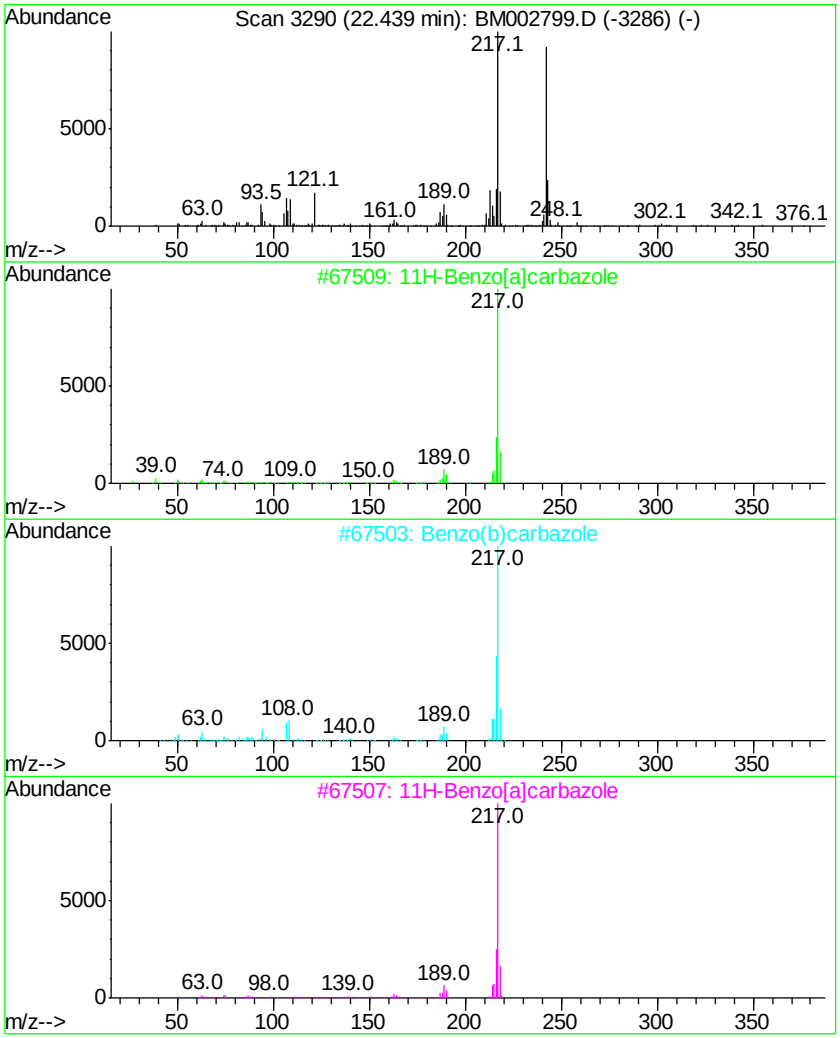
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

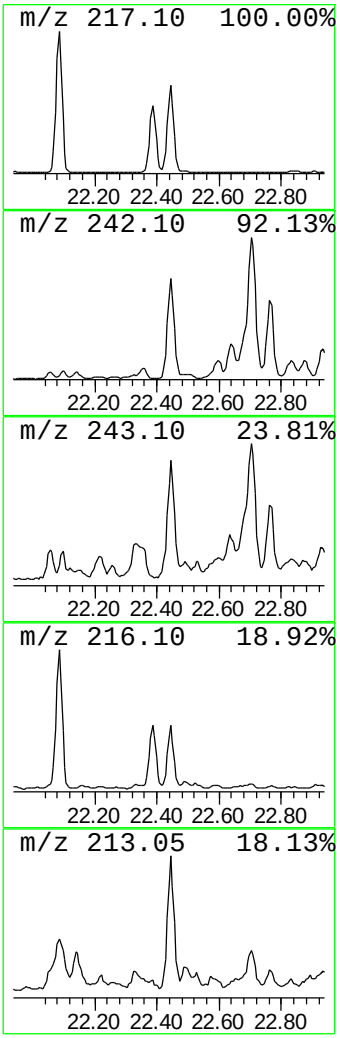
****

Peak Number 27 unknown-03 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.44	2.07 ng/ul	393308	Chrysene-d12	22.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	49
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	42
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	42
4	Benzo(b)carbazole	217	C16H11N	000243-28-7	42
5	Benzo(c)carbazole	217	C16H11N	034777-33-8	42





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM092915\
Data File : BM002799.D
Acq On : 01 Oct 2015 01:37
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9G75

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM092915.M
Quant Title : SVOA 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
3-Buten-2-one, 3-...	3.41	5.0	ng/ul	99638	1	8.70	402010	20.0
Butane, 2-methoxy...	3.46	95.9	ng/ul	1926850	1	8.70	402010	20.0
2-Hexene, 1-metho...	3.51	2.4	ng/ul	48390	1	8.70	402010	20.0
unknown-01	4.38	4.0	ng/ul	80441	1	8.70	402010	20.0
Benzenamine, 2-me...	11.24	5.0	ng/ul	139752	2	11.56	561846	20.0
unknown-02	17.19	4.5	ng/ul	148882	4	18.01	654793	20.0
9H-Fluoren-9-one	17.67	3.7	ng/ul	121575	4	18.01	654793	20.0
Dibenzothiophene	17.83	4.7	ng/ul	155086	4	18.01	654793	20.0
Acridine	18.20	2.2	ng/ul	71856	4	18.01	654793	20.0
Phenanthrene, 2-m...	18.86	8.1	ng/ul	265494	4	18.01	654793	20.0
Phenanthrene, 1-m...	18.99	2.6	ng/ul	86606	4	18.01	654793	20.0
4H-Cyclopenta[def...	19.06	21.9	ng/ul	716999	4	18.01	654793	20.0
2-Phenylnaphthalene	19.33	8.8	ng/ul	289323	4	18.01	654793	20.0
9,10-Anthracenedione	19.39	14.9	ng/ul	487102	4	18.01	654793	20.0
Phenanthrene, 4,5...	19.57	2.3	ng/ul	75574	4	18.01	654793	20.0
Phenanthrene, 1,7...	19.74	3.9	ng/ul	127787	4	18.01	654793	20.0
Cyclopenta(def)ph...	19.90	6.3	ng/ul	206666	4	18.01	654793	20.0
Fluoranthene, 2-m...	20.84	4.3	ng/ul	821828	5	22.10	3800840	20.0
11H-Benzo[b]fluorene	20.93	2.4	ng/ul	446890	5	22.10	3800840	20.0
Benzo[b]naphtho[2...	21.73	3.6	ng/ul	690430	5	22.10	3800840	20.0
7H-Benz[de]anthra...	21.86	2.2	ng/ul	411142	5	22.10	3800840	20.0
Cyclopenta(cd)pyr...	22.27	2.5	ng/ul	472181	5	22.10	3800840	20.0
unknown-03	22.44	2.1	ng/ul	393308	5	22.10	3800840	20.0