LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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_G\METHODS\SOM02.2-EPA-BG123015.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	3.074	35	40	45	rBV4	7360	15467	1.10%	0.111%
2	8.063	882	889	901	rBB	63692	110173	7.83%	0.792%
3	10.877	1359	1368	1374	rBV	103349	184511	13.11%	1.327%
4	12.745	1680	1686	1696	rVB	10595	18457	1.31%	0.133%
5	13.874	1872	1878	1887	rBV5	6175	16020	1.14%	0.115%
6	14.026	1896	1904	1909	rBV3	21499	45534	3.24%	0.328%
7	14.420	1968	1971	1977	rVB	14314	21688	1.54%	0.156%
8	14.696	2010	2018	2025	rVV2	178553	298777	21.24%	2.149%
9	14.761	2025	2029	2035	rVB3	7791	14129	1.00%	0.102%
10	15.689	2183	2187	2191	rVV2	11176	17026	1.21%	0.122%
11	15.742	2191	2196	2206	rVB2	59948	93556	6.65%	0.673%
12	16.747	2363	2367	2371	rVV4	14315	22725	1.62%	0.163%
13	17.099	2422	2427	2433	rVB2	21026	31122	2.21%	0.224%
14	17.264	2450	2455	2459	rBV	27497	39556	2.81%	0.285%
15	17.311	2459	2463	2468	rVB	25275	34631	2.46%	0.249%
16	17.446	2479	2486	2489	rBV	233242	371849	26.43%	2.675%
17	17.487	2489	2493	2499	rVV	580904	871301	61.93%	6.267%
18	17.546	2499	2503	2504	rVV	13022	17791	1.26%	0.128%
19	17.575	2504	2508	2514	rVV	71445	111185	7.90%	0.800%
20	17.646	2516	2520	2529	rVV	25069	37952	2.70%	0.273%
21	17.845	2549	2554	2560	rVB	30005	40812	2.90%	0.294%
22	17.957	2569	2573	2578	rVB	48677	65053	4.62%	0.468%
23	18.027	2580	2585	2587	rBV	21942	31587	2.25%	0.227%
24	18.139	2599	2604	2607	rBV2	23234	33299	2.37%	0.240%
25	18.245	2617	2622	2627	rBV4	9885	18092	1.29%	0.130%
26	18.321	2628	2635	2639	rVV	121087	191967	13.64%	1.381%
27	18.368	2639	2643	2648	rVV	123017	177931	12.65%	1.280%
28	18.515	2661	2668	2671	rBV2	153130	287101	20.41%	2.065%
29	18.550	2671	2674	2678	rVV	76811	108136	7.69%	0.778%
30	18.750	2704	2708	2714	rVB4	15501	25006	1.78%	0.180%
31	18.809	2714	2718	2722	rBV	105266	144016	10.24%	1.036%
32	18.856	2722	2726	2731	rVB	110727	152789	10.86%	1.099%
33	19.056	2753	2760	2765	rBV4	16302	27904	1.98%	0.201%
34	19.109	2765	2769	2772	rVB	19078	22580	1.60%	0.162%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

35	19.150	2772	2776	2779	rVB2	12862	17631	1.25%	0.127%
36	19.226	2784	2789	2794	rBV	50198	82801	5.89%	0.596%
37	19.291	2794	2800	2803	rBV5	21900	46341	3.29%	0.333%
38	19.373	2809	2814	2823	rVB2	70524	130322	9.26%	0.937%
39	19.496	2825	2835	2840	rVB	546219	804172	57.16%	5.784%
40	19.549	2840	2844	2847	rBV	21301	26572	1.89%	0.191%
41	19.584	2847	2850	2855	rVB3	20305	30847	2.19%	0.222%
42	19.643	2856	2860	2864	rBV	52065	66451	4.72%	0.478%
43	19.690	2864	2868	2873	rVV2	36206	49516	3.52%	0.356%
44	19.737	2873	2876	2885	rVB2	17675	31161	2.21%	0.224%
45	19.861	2886	2897	2903	rBV	969770	1406903	100.00%	10.120%
46	19.919	2903	2907	2914	rVB4	19111	34059	2.42%	0.245%
47	20.084	2932	2935	2942	rVB4	19507	29665	2.11%	0.213%
48	20.190	2944	2953	2959	rBV3	76598	176222	12.53%	1.268%
49	20.342	2968	2979	2984	rVB	105821	293122	20.83%	2.108%
50	20.442	2987	2996	3001	rBV	71838	109673	7.80%	0.789%
51	20.501	3001	3006	3012	rBV	121084	164566	11.70%	1.184%
52	20.642	3025	3030	3034	rVV	102346	147110	10.46%	1.058%
53	20.689	3034	3038	3045	rVB	108081	146543	10.42%	1.054%
54	20.807	3053	3058	3062	rVB5	13343	24127	1.71%	0.174%
55	20.936	3075	3080	3084	rVV5	13667	23897	1.70%	0.172%
56	21.071	3098	3103	3104	rVV5	14560	20462	1.45%	0.147%
57	21.106	3105	3109	3116	rVB	62098	104661	7.44%	0.753%
58	21.206	3122	3126	3130	rVB2	11464	15776	1.12%	0.113%
59	21.288	3130	3140	3144	rBV2	52750	124074	8.82%	0.892%
60	21.335	3144	3148	3152	rVV	97737	141208	10.04%	1.016%
61	21.382	3152	3156	3161	rVV	70588	105001	7.46%	0.755%
62	21.447	3161	3167	3175	rVB2	52615	106841	7.59%	0.768%
63	21.570	3185	3188	3201	rVB2	14714	40161	2.85%	0.289%
64	21.705	3202	3211	3218	rBV2	399815	1148951	81.67%	8.264%
65	21.764	3218	3221	3228	rVB	312339	495135	35.19%	3.561%
66	21.870	3234	3239	3244	rVB3	11549	19504	1.39%	0.140%
67	21.929	3244	3249	3253	rBV5	15601	27080	1.92%	0.195%
68	21.988	3253	3259	3265	rBV	110754	197098	14.01%	1.418%
69	22.193	3290	3294	3300	rVB4	21675	38138	2.71%	0.274%
70	22.317	3306	3315	3320	rBV7	9586	26099	1.86%	0.188%
71	22.375	3320	3325	3329	rVV2	22368	41360	2.94%	0.297%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

72	22.452	3329	3338	3346	rVV	79046	206618	14.69%	1.486%
73	22.528	3346	3351	3359	rVV2	49757	118023	8.39%	0.849%
74	22.622	3359	3367	3371	rVV2	40431	98296	6.99%	0.707%
75	22.669	3371	3375	3379	rVV4	22572	49115	3.49%	0.353%
76	22.728	3380	3385	3389	rVV2	42906	97248	6.91%	0.699%
77	22.769	3389	3392	3402	rVV5	42191	92170	6.55%	0.663%
78	22.875	3405	3410	3417	rVB	26508	51727	3.68%	0.372%
79	23.139	3449	3455	3460	rVV5	8580	19484	1.38%	0.140%
80	23.545	3516	3524	3526	rBV3	11618	22533	1.60%	0.162%
81	23.944	3580	3592	3599	rBV3	170819	601602	42.76%	4.327%
82	24.203	3627	3636	3644	rBV	15438	42835	3.04%	0.308%
83	24.673	3705	3716	3725	rBV	128475	368116	26.16%	2.648%
84	24.819	3732	3741	3753	rVB	158144	431534	30.67%	3.104%
85	24.972	3754	3767	3776	rBV	150422	453624	32.24%	3.263%
86	25.066	3777	3783	3795	rVB5	23530	85104	6.05%	0.612%
87	25.225	3805	3810	3819	rVB6	6373	15565	1.11%	0.112%
88	25.389	3830	3838	3839	rBV5	7996	14261	1.01%	0.103%
89	25.765	3895	3902	3909	rVB3	10120	27248	1.94%	0.196%
90	25.854	3910	3917	3925	rVB4	8879	25560	1.82%	0.184%
91	26.282	3980	3990	3996	rVV5	10072	32772	2.33%	0.236%
92	26.377	3997	4006	4018	rVV4	19615	70185	4.99%	0.505%
93	27.563	4199	4208	4210	rBV4	7431	16196	1.15%	0.116%
94	27.828	4241	4253	4254	rBV9	9674	22877	1.63%	0.165%
95	28.227	4306	4321	4322	rBV3	12241	34390	2.44%	0.247%
96	28.292	4326	4332	4346	rVB8	16321	63273	4.50%	0.455%
97	28.691	4385	4400	4419	rBV4	63189	299991	21.32%	2.158%
98	29.161	4469	4480	4482	rBV3	10629	24927	1.77%	0.179%
99	29.332	4496	4509	4522	rBV4	13006	56250	4.00%	0.405%
100	29.861	4581	4599	4617	rBV2	54601	268295	19.07%	1.930%

Sum of corrected areas: 13902792

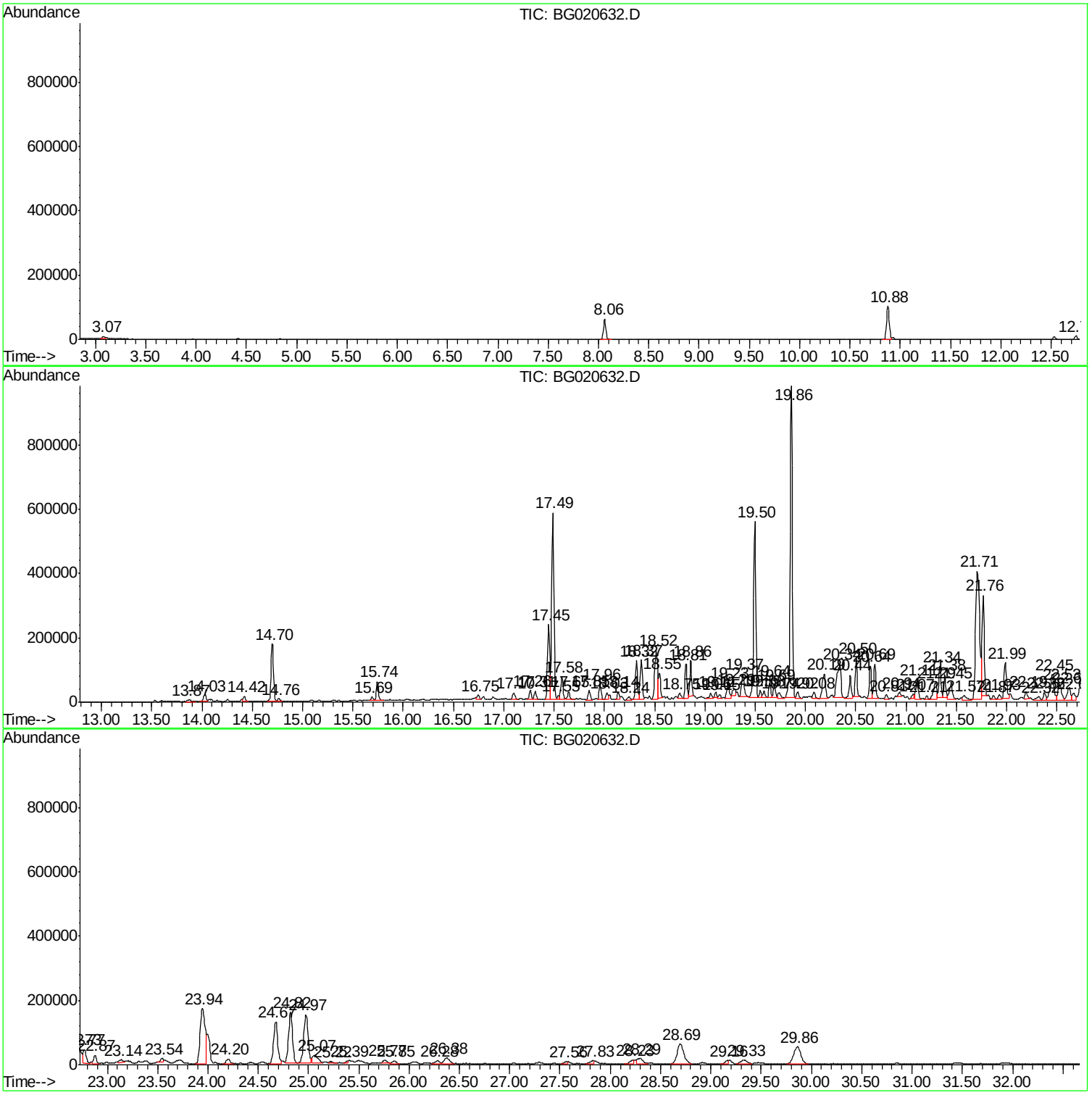
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

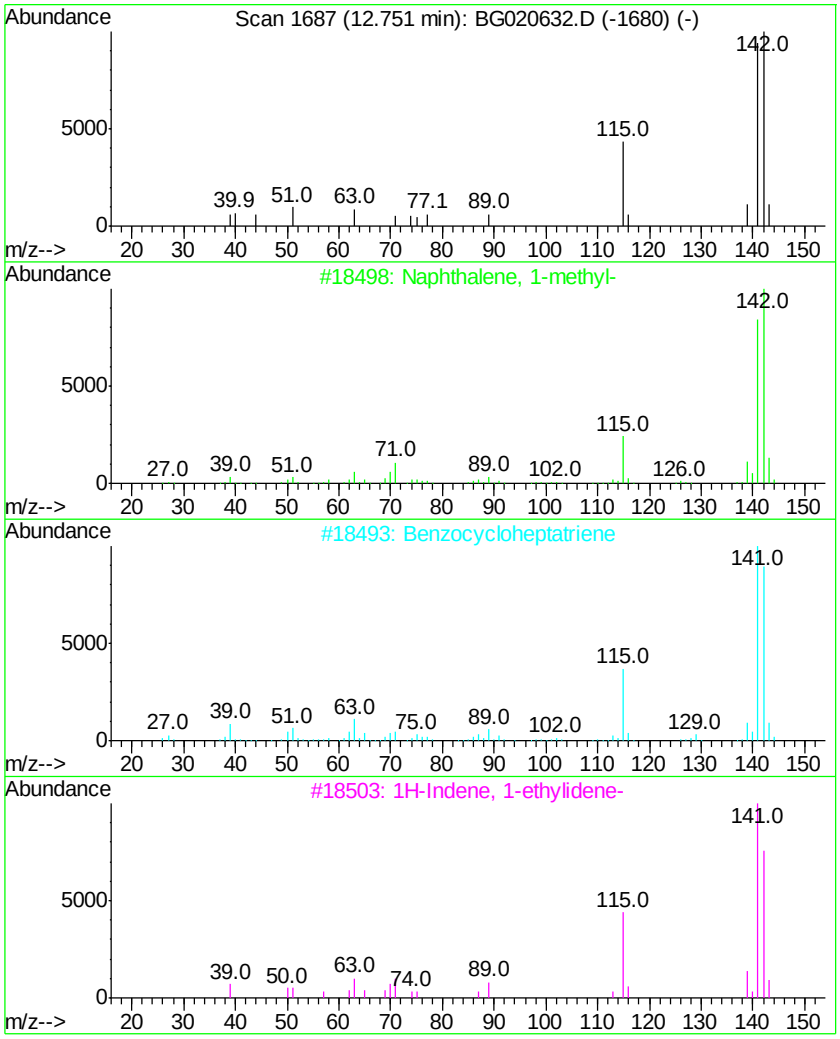
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

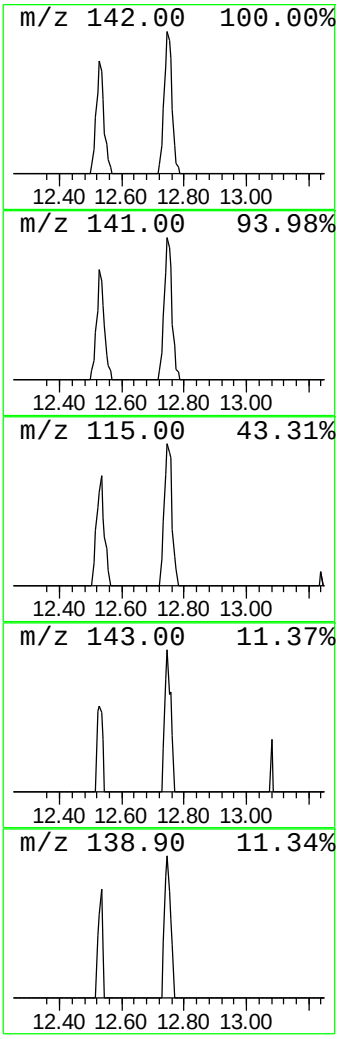
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.75	2.00 ng/ul	18457	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
2	Benzocycloheptatriene	142	C11H10	000264-09-5	91
3	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	91
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

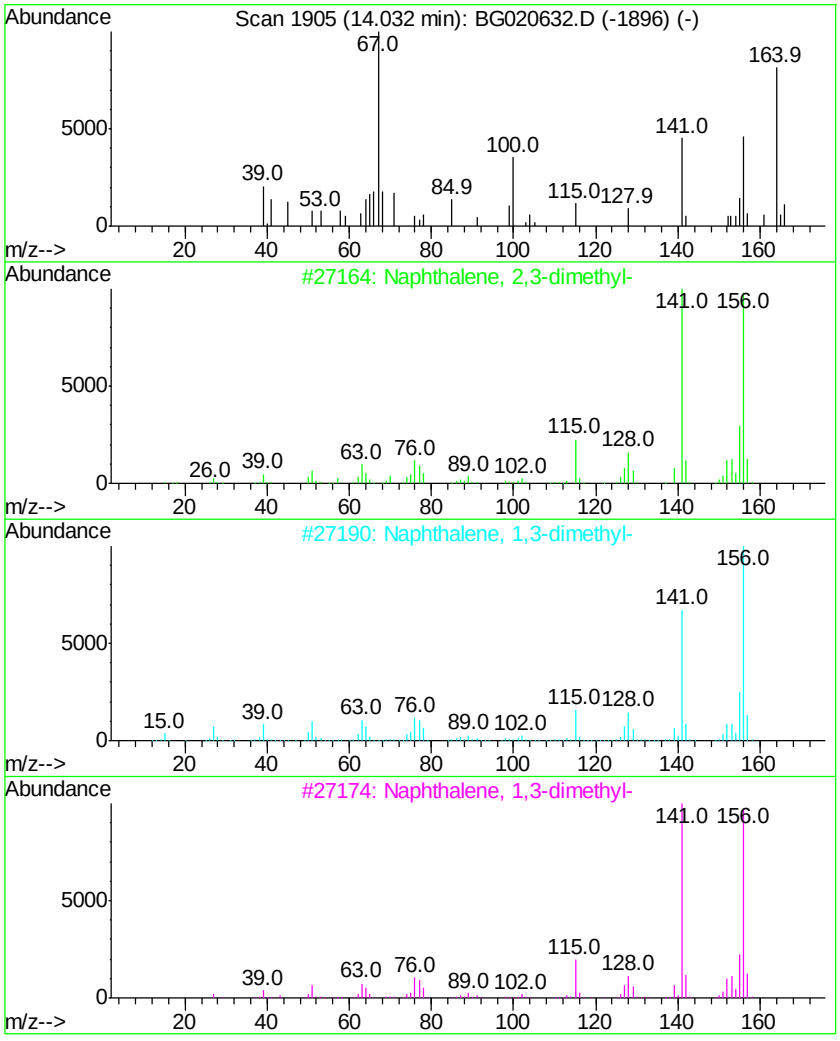
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

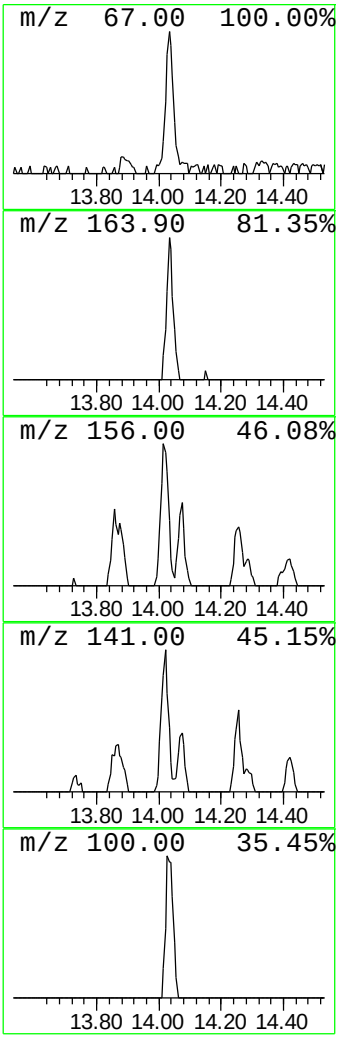
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.03	3.05 ng/ul	45534	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	89
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	89
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	89
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	86





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

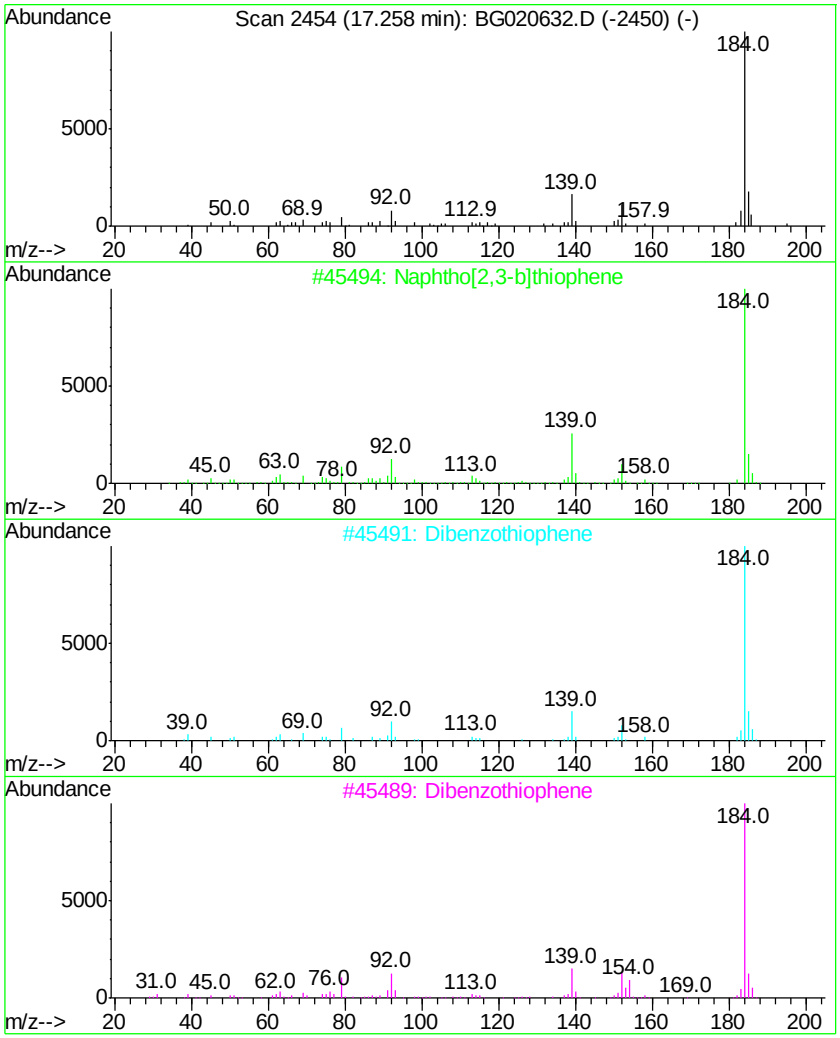
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

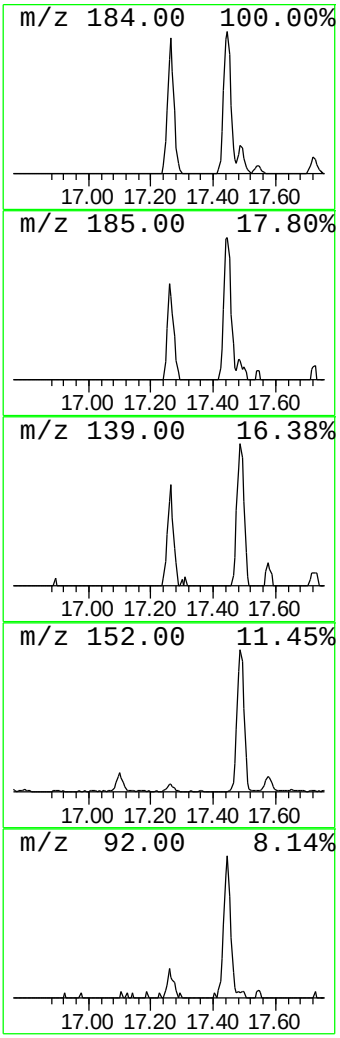
****

Peak Number 4 Naphtho[2,3-b]thiophene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	2.13 ng/ul	39556	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
2	Dibenzothiophene	184	C12H8S	000132-65-0	93
3	Dibenzothiophene	184	C12H8S	000132-65-0	91
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

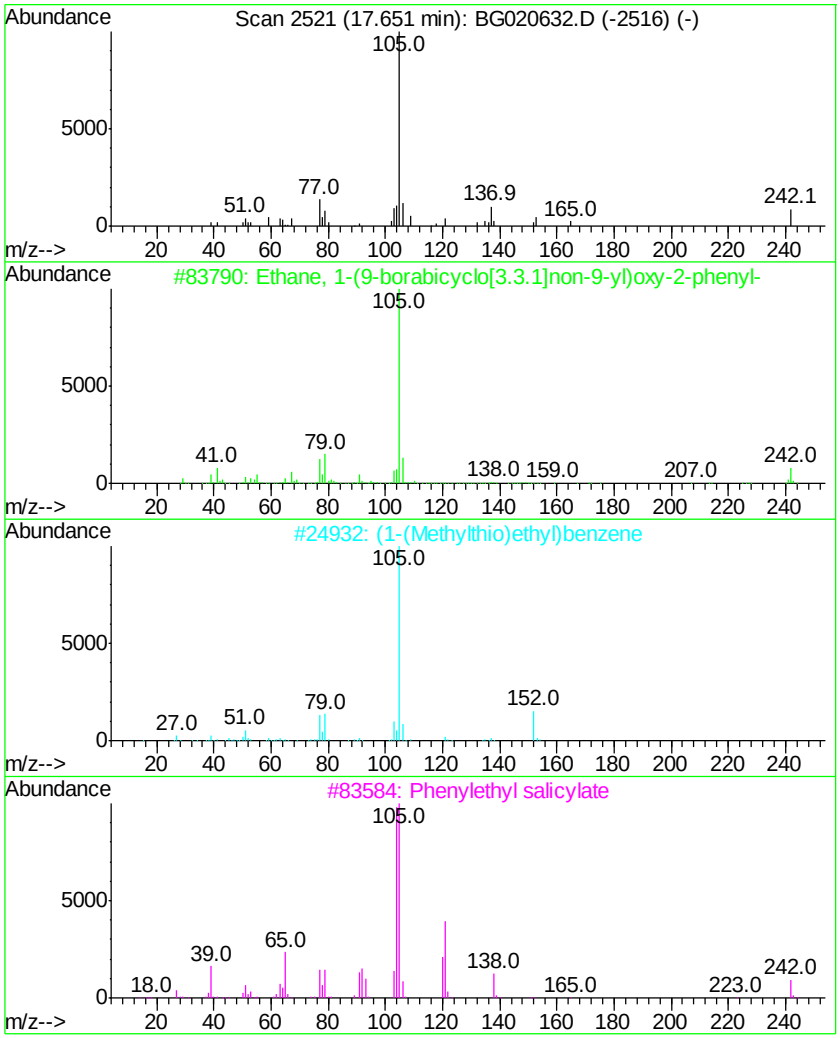
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

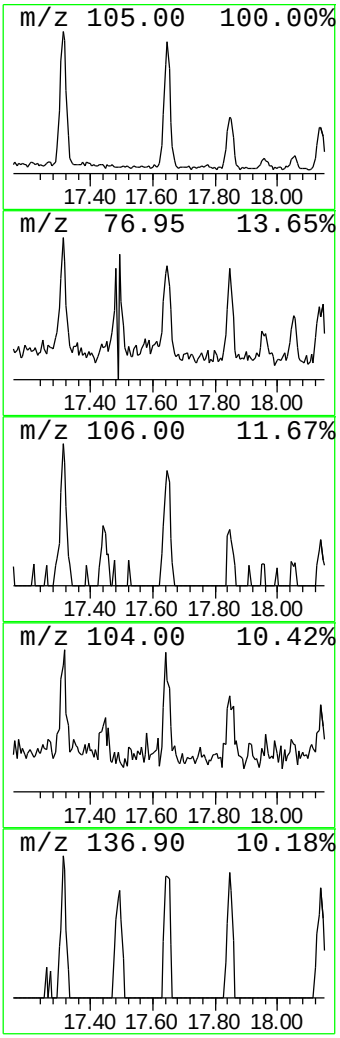
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Ethane, 1-(9-borabicyclo[3.... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.65	2.04 ng/ul	37952	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1-(9-borabicyclo[3.3.1]n...	242	C16H23BO	1000161-01-0	81
2	(1-(Methylthio)ethyl)benzene	152	C9H12S	013125-70-7	64
3	Phenylethyl salicylate	242	C15H14O3	000087-22-9	64
4	Benzene, 1-(bromomethyl)-4-methyl-	184	C8H9Br	000104-81-4	59
5	Phenol, o-[(.alpha.-methylbenzyl...	262	C14H14O3S	029634-38-6	59





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

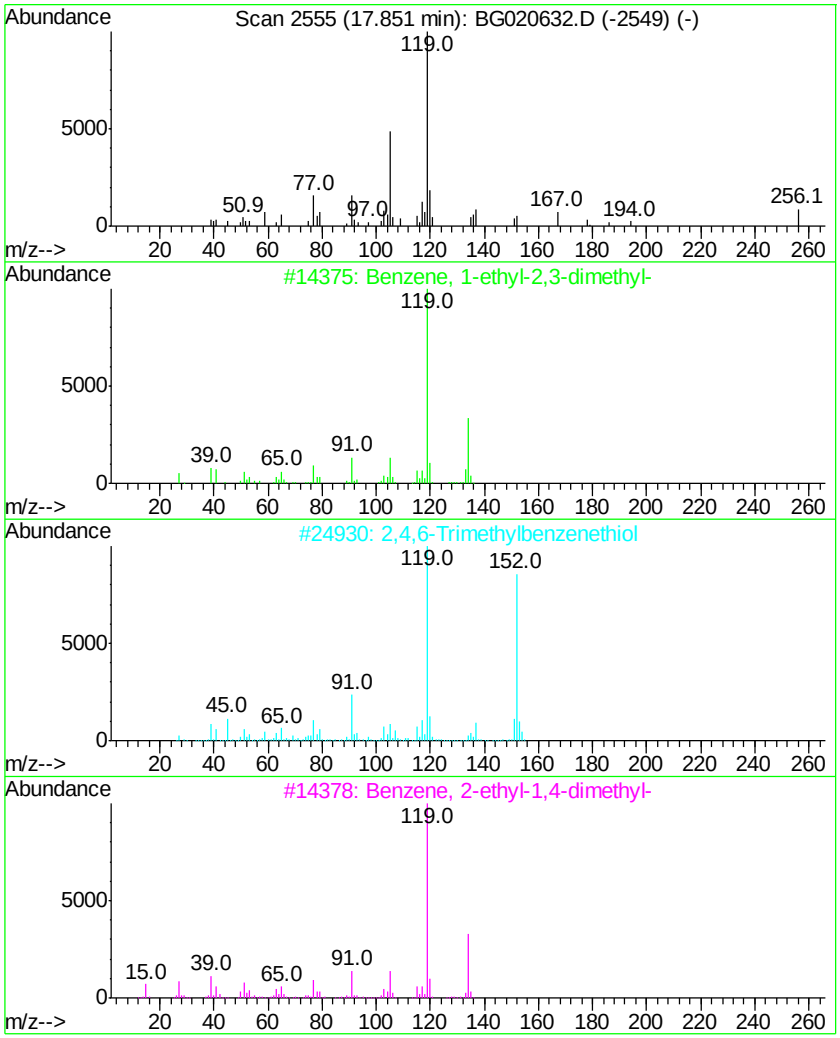
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

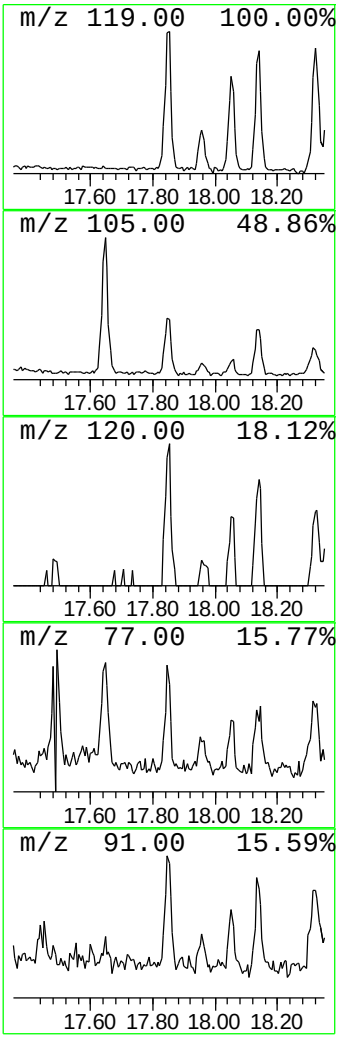
****

Peak Number 6 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.85	2.20 ng/ul	40812	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	59
2	2,4,6-Trimethylbenzenethiol	152	C9H12S	001541-10-2	59
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	59
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	58
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	58





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Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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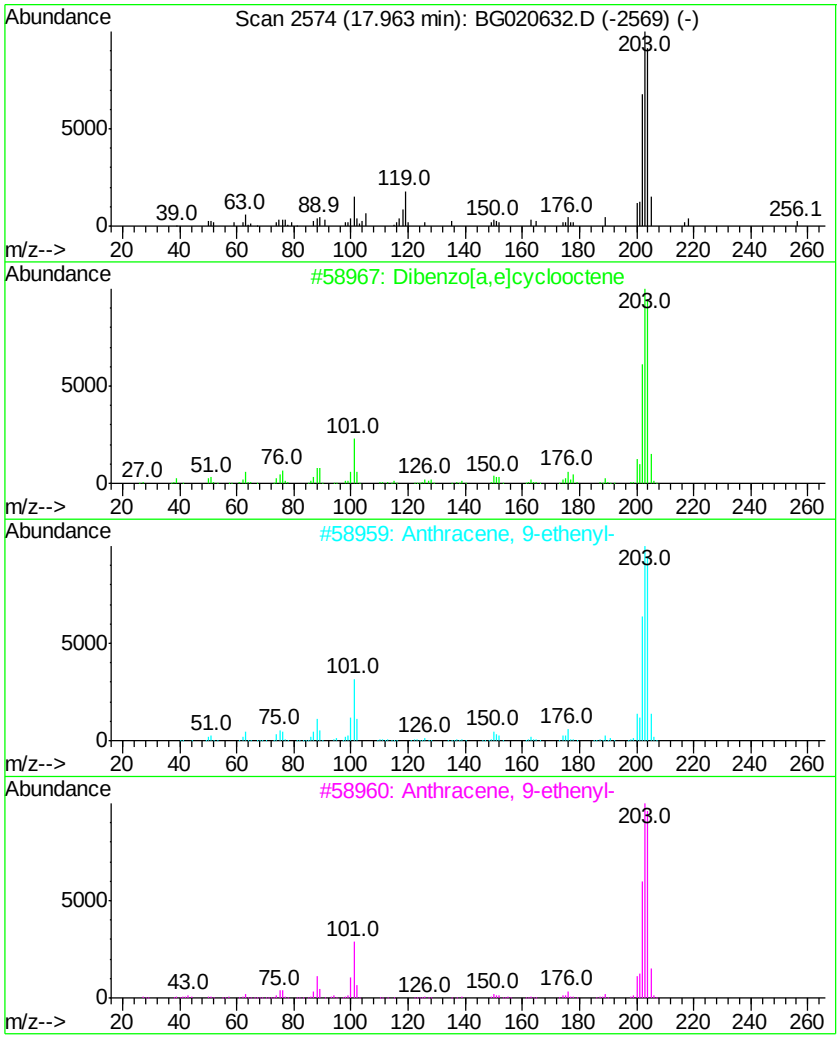
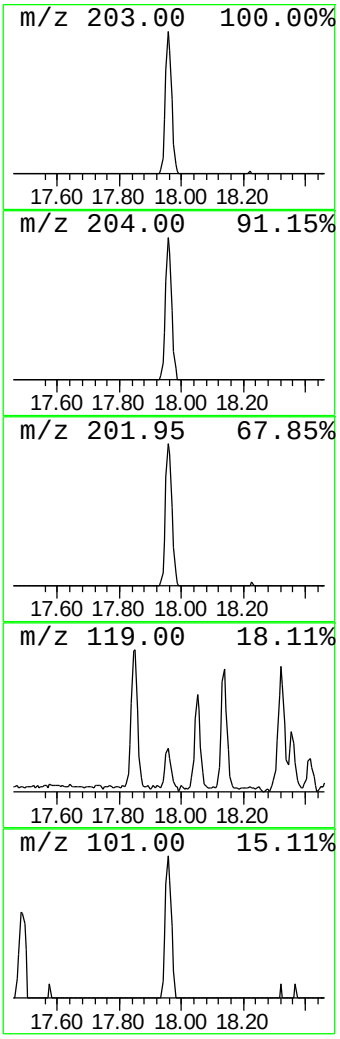
Peak Number 7 Dibenzo[a,e]cyclooctene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	3.50 ng/ul	65053	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	86
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	86
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	70
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	70
5	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	70





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Sample : G4802-10DL 30X
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Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

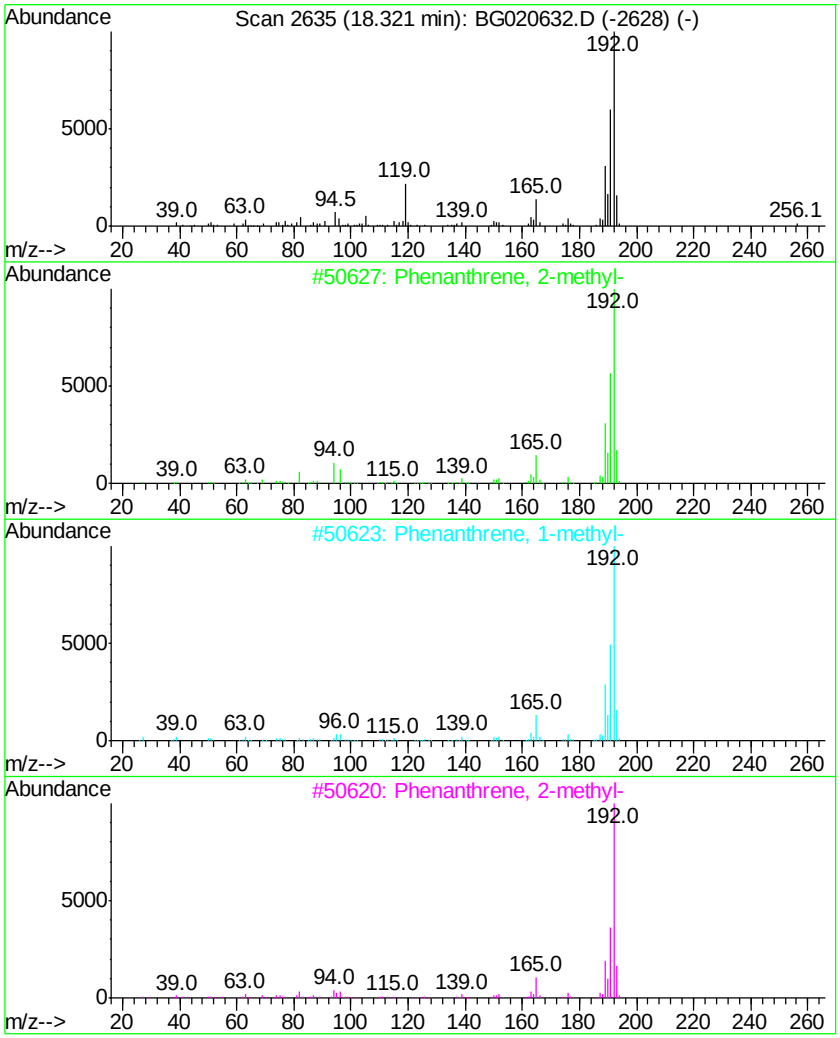
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

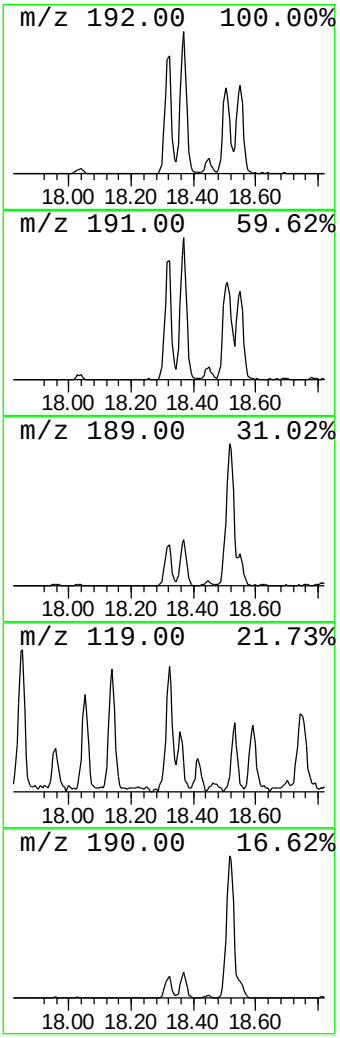
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	10.33 ng/ul	191967	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
5	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	94





Library Search Compound Report

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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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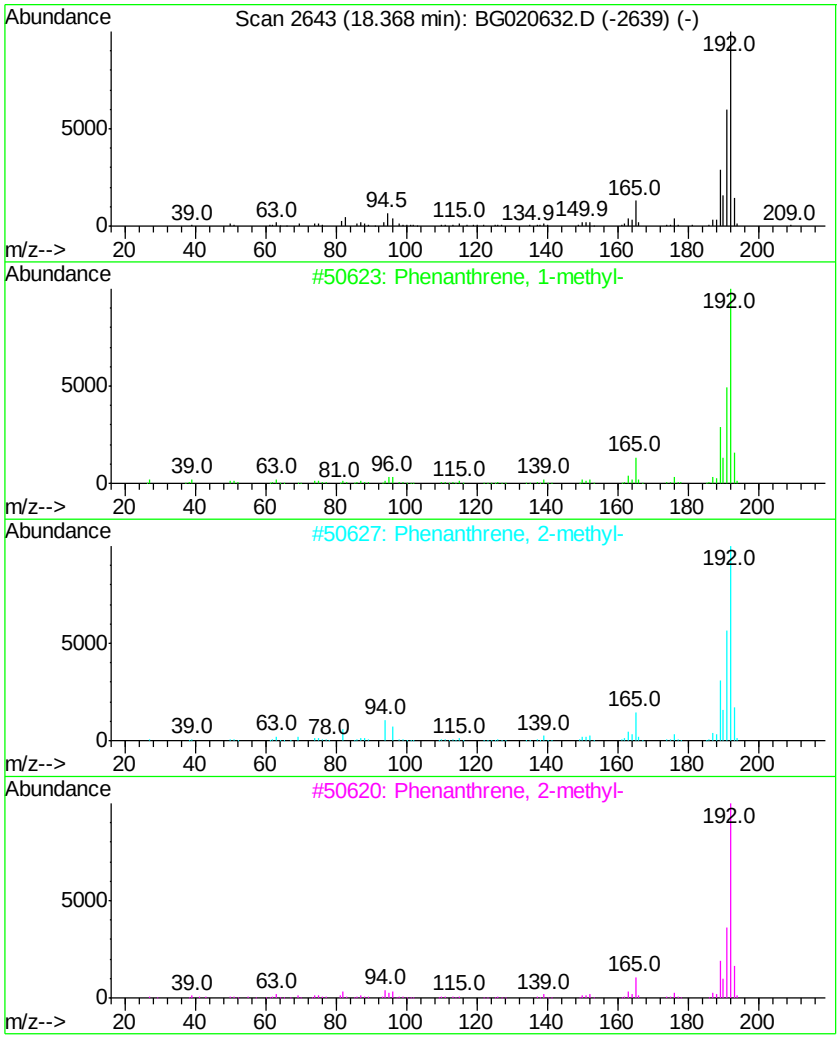
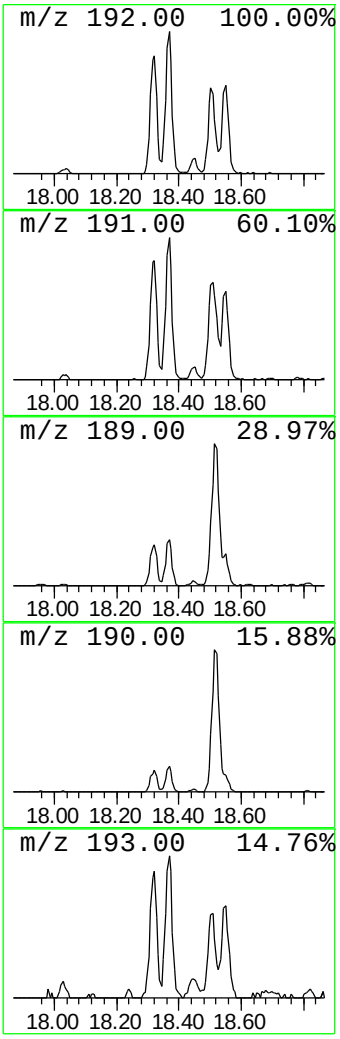
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	9.57 ng/ul	177931	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	94





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Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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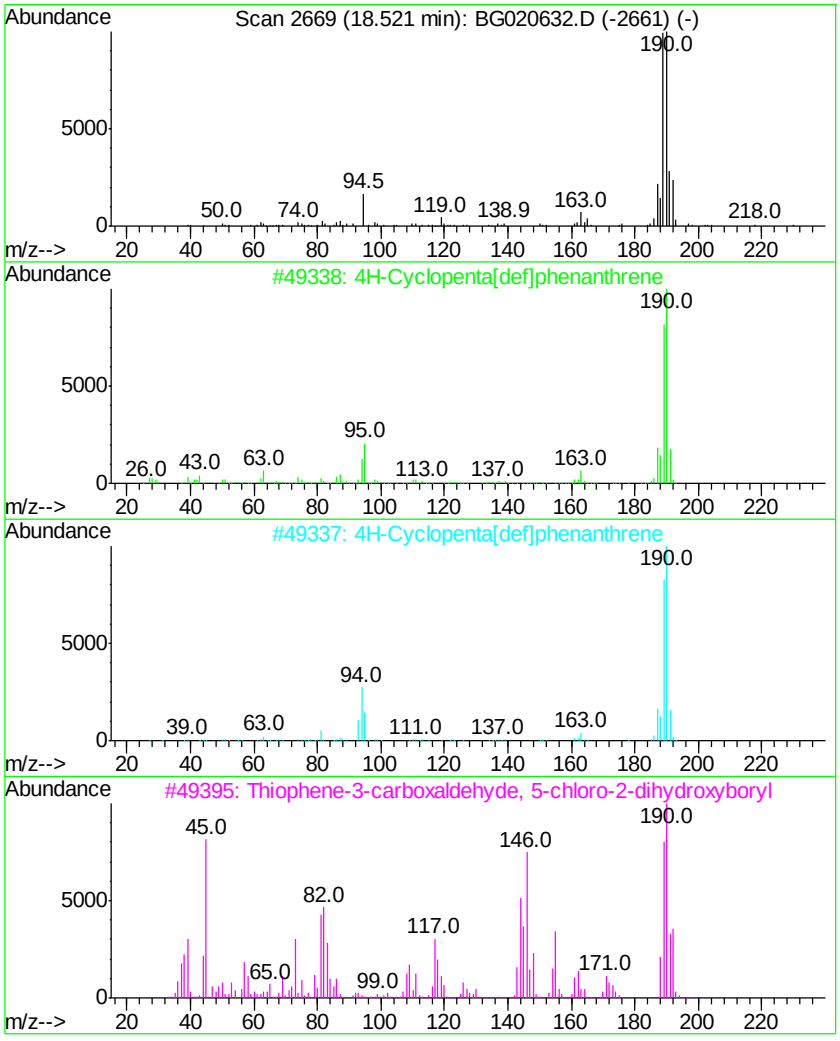
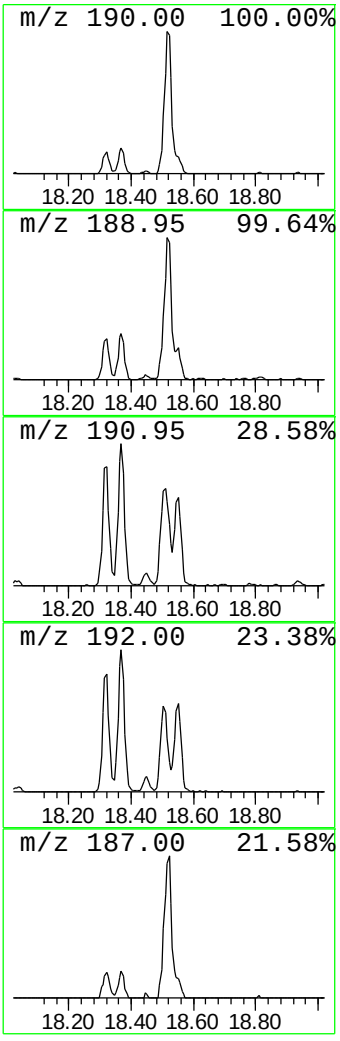
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.52	15.44 ng/ul	287101	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

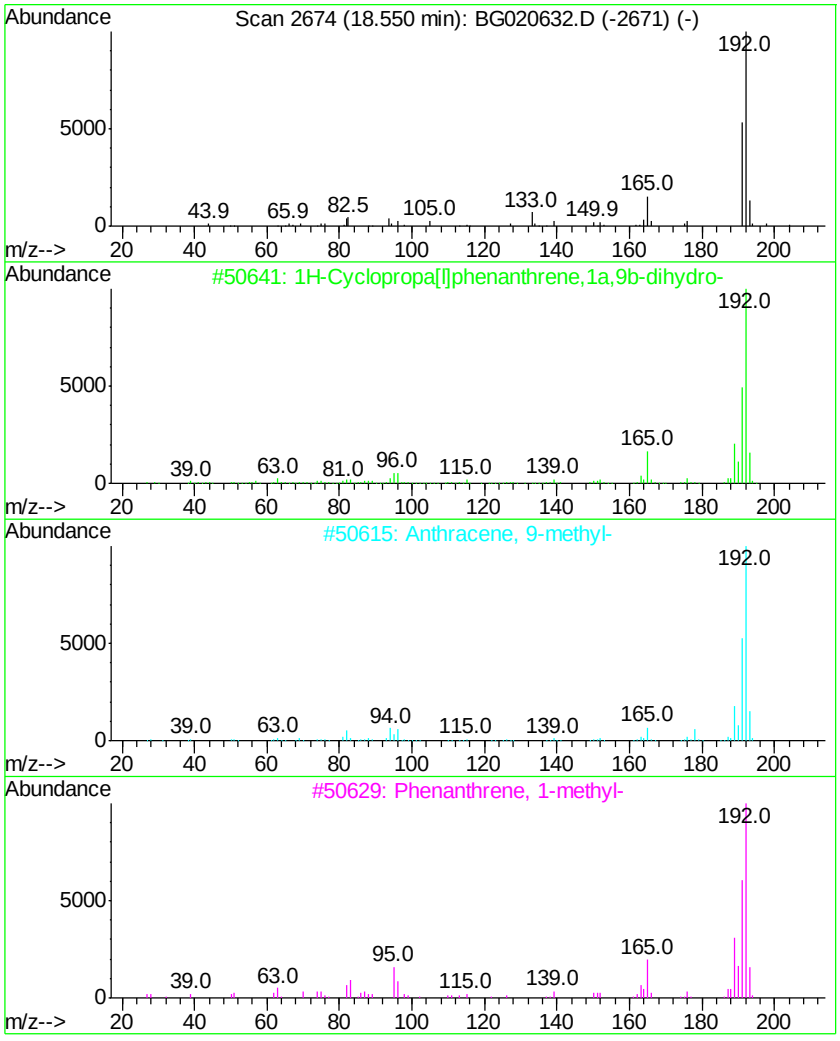
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

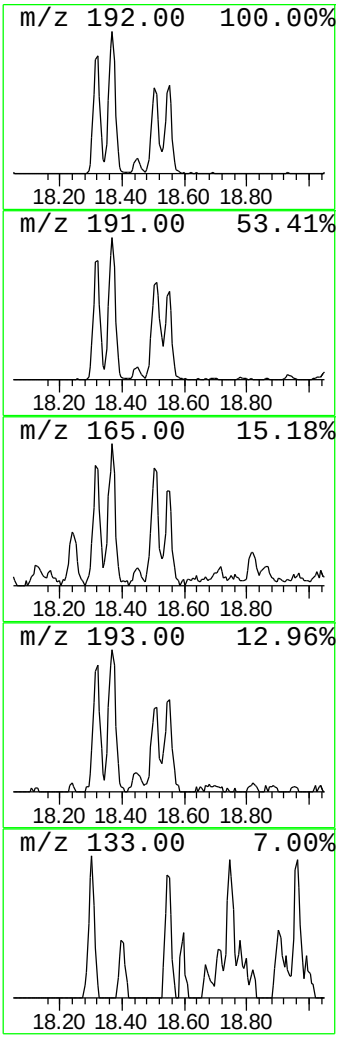
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	5.82 ng/ul	108136	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87





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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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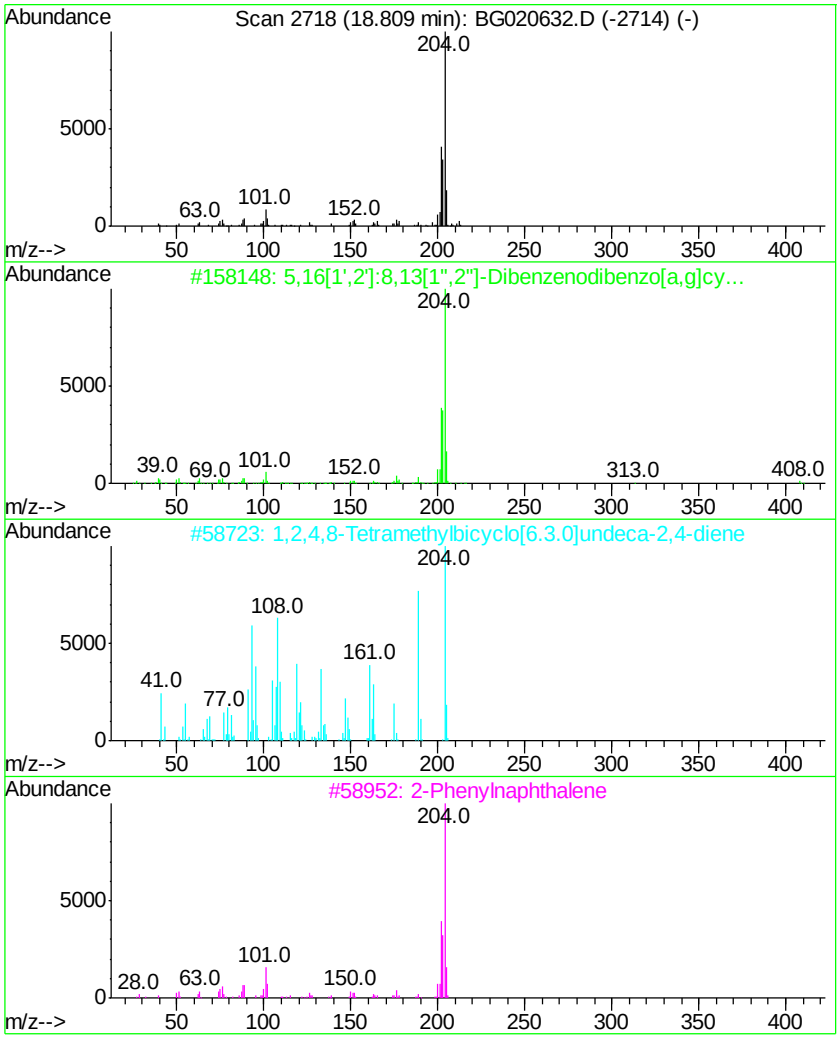
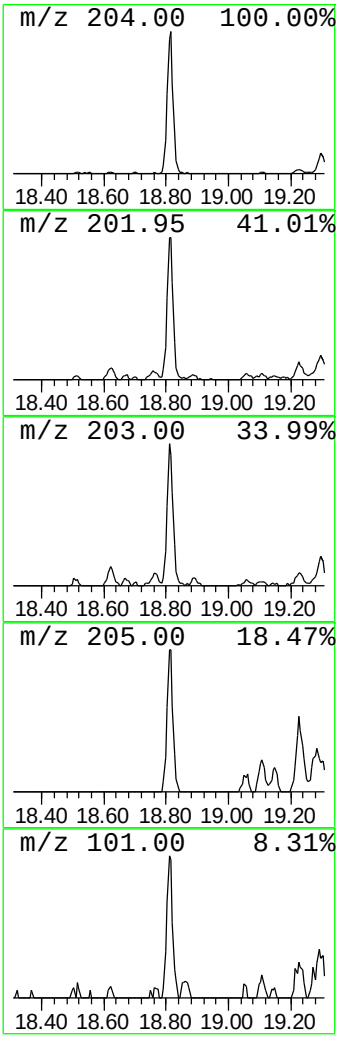
Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.81	7.75 ng/ul	144016	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	76
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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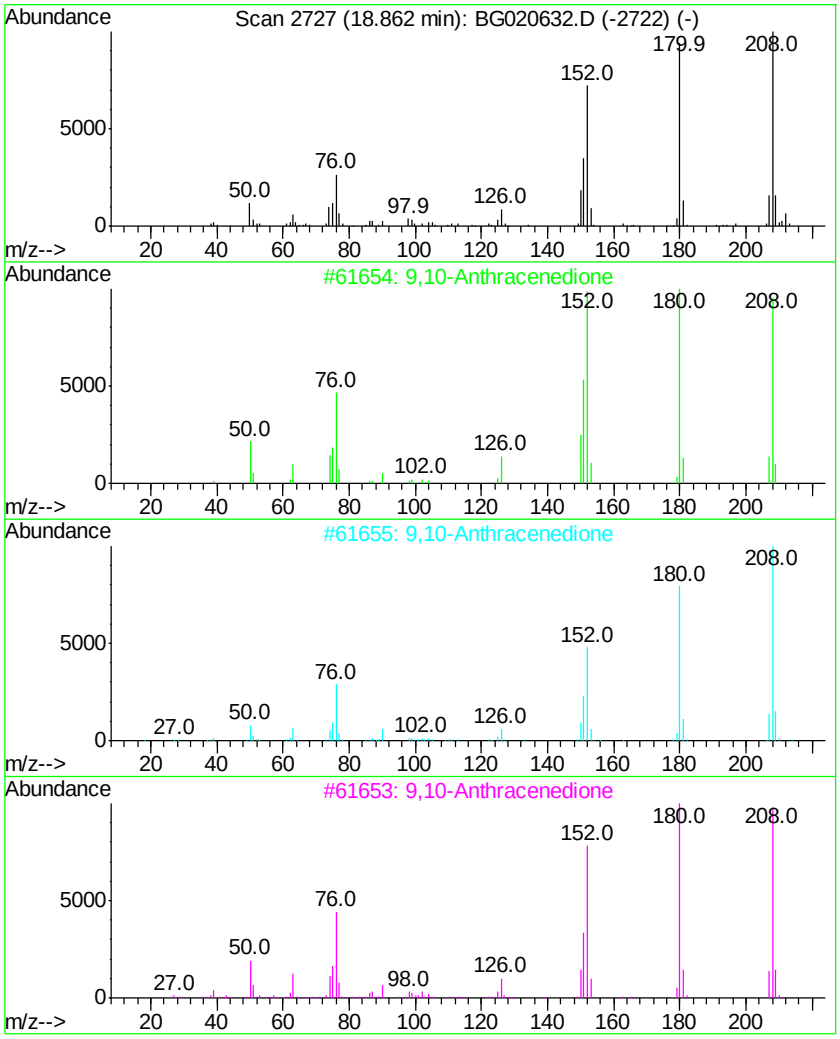
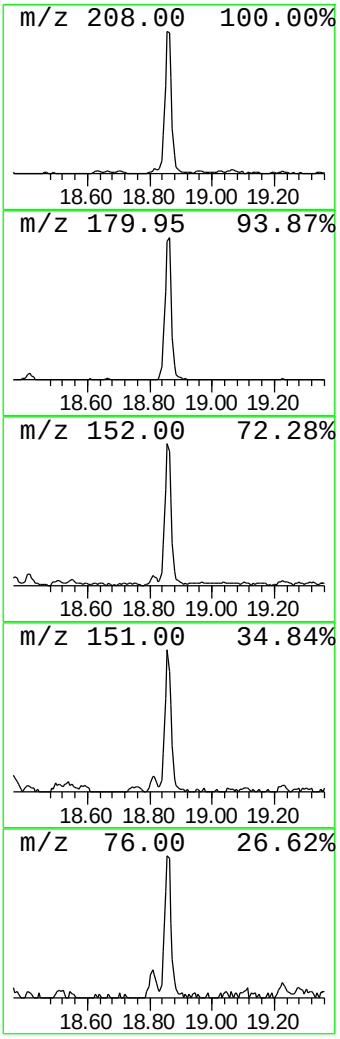
Peak Number 13 9,10-Anthracenedione Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	8.22 ng/ul	152789	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	78





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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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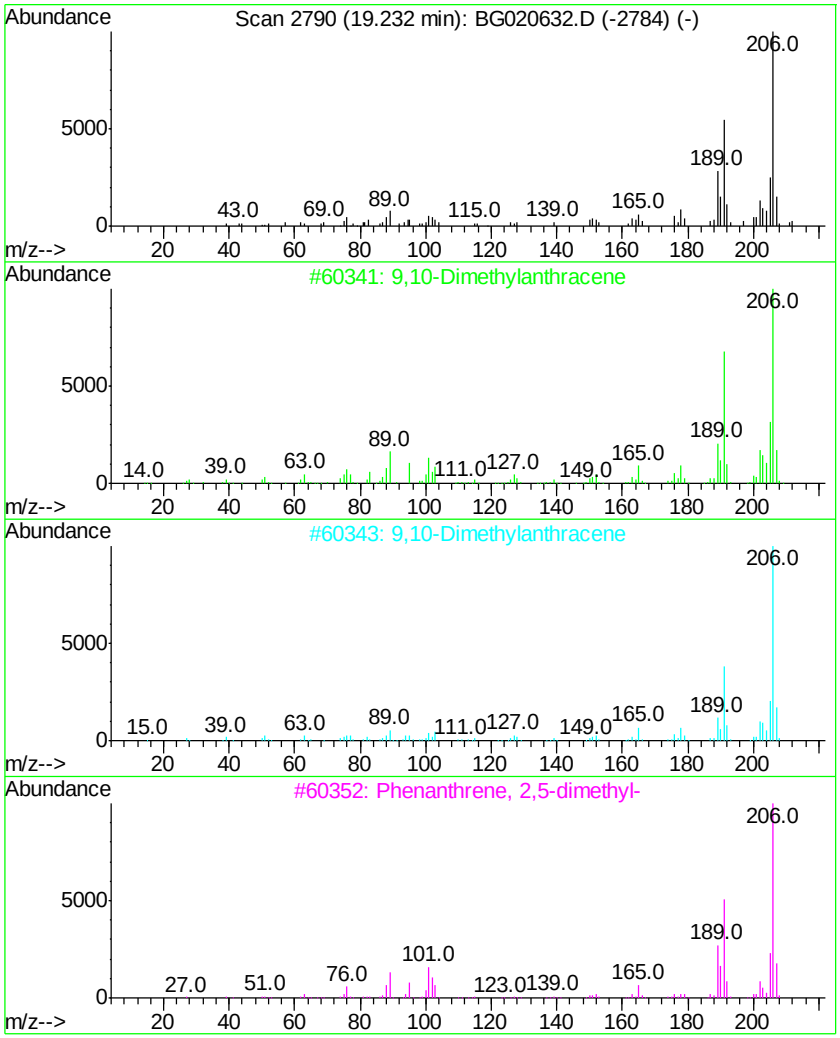
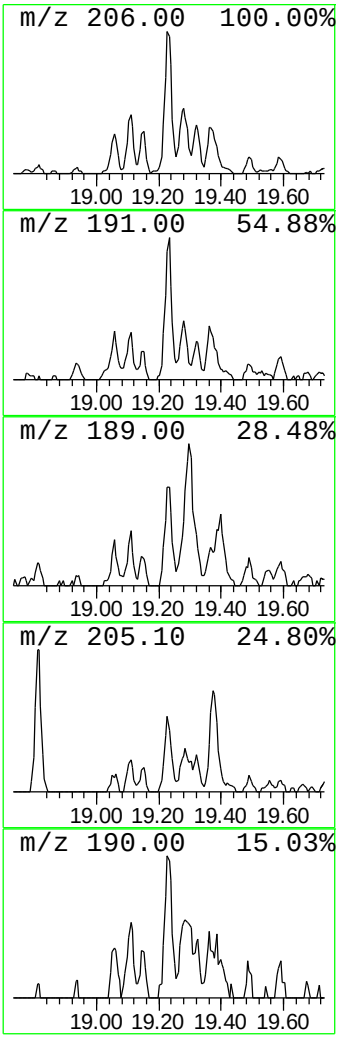
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.23	4.45 ng/ul	82801	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





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Sample : G4802-10DL 30X
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Instrument : BNA_G
ClientSampleId : G9D85DL

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Quant Title : SVOA CALIBRATION

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

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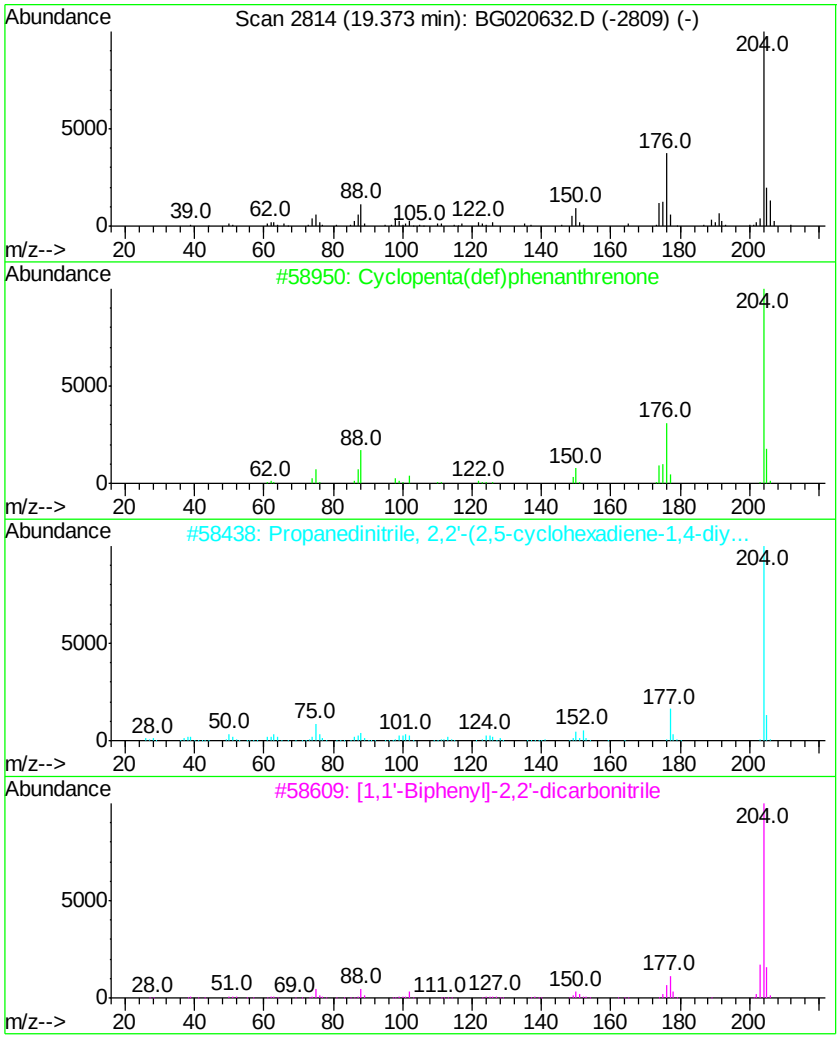
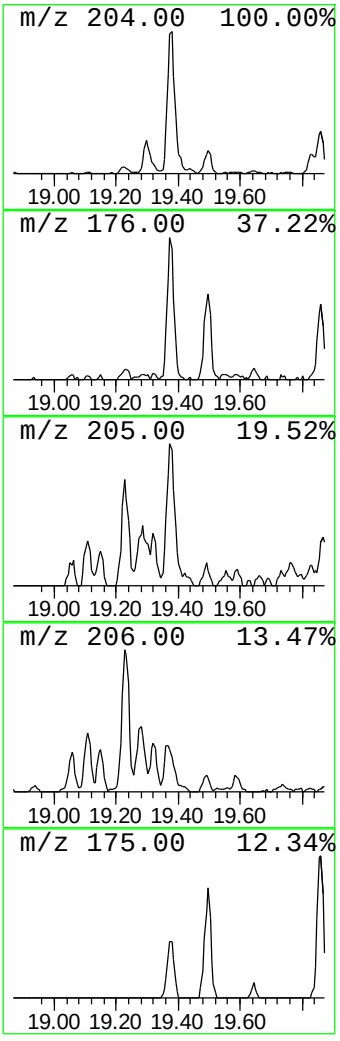
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.37	7.01 ng/ul	130322	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	Propanedinitrile, 2,2'-(2,5-cycl...	204	C12H4N4	001518-16-7	50
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	50
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47





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Quant Title : SVOA CALIBRATION

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

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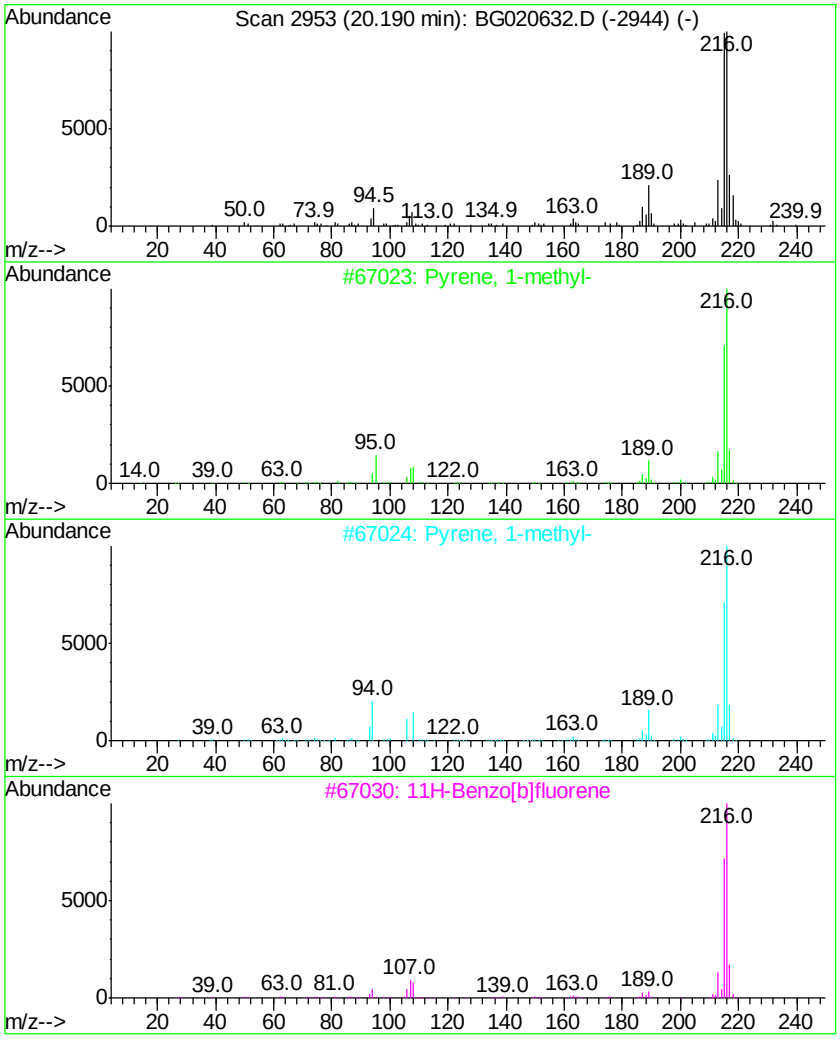
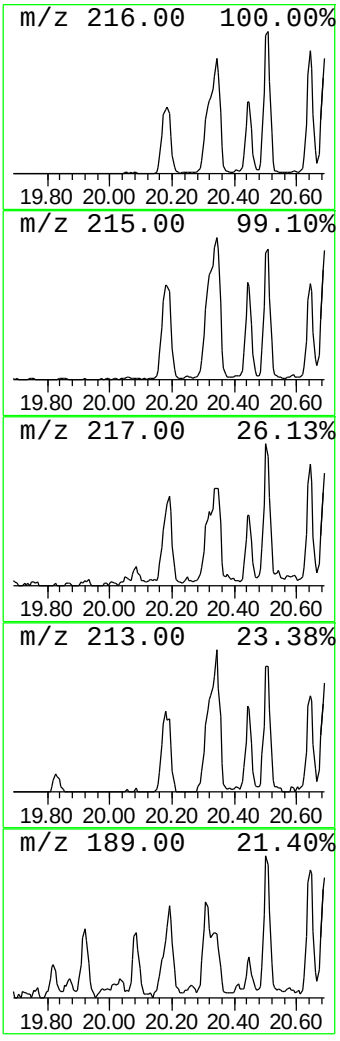
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.19	3.07 ng/ul	176222	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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Sample : G4802-10DL 30X
Misc :
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Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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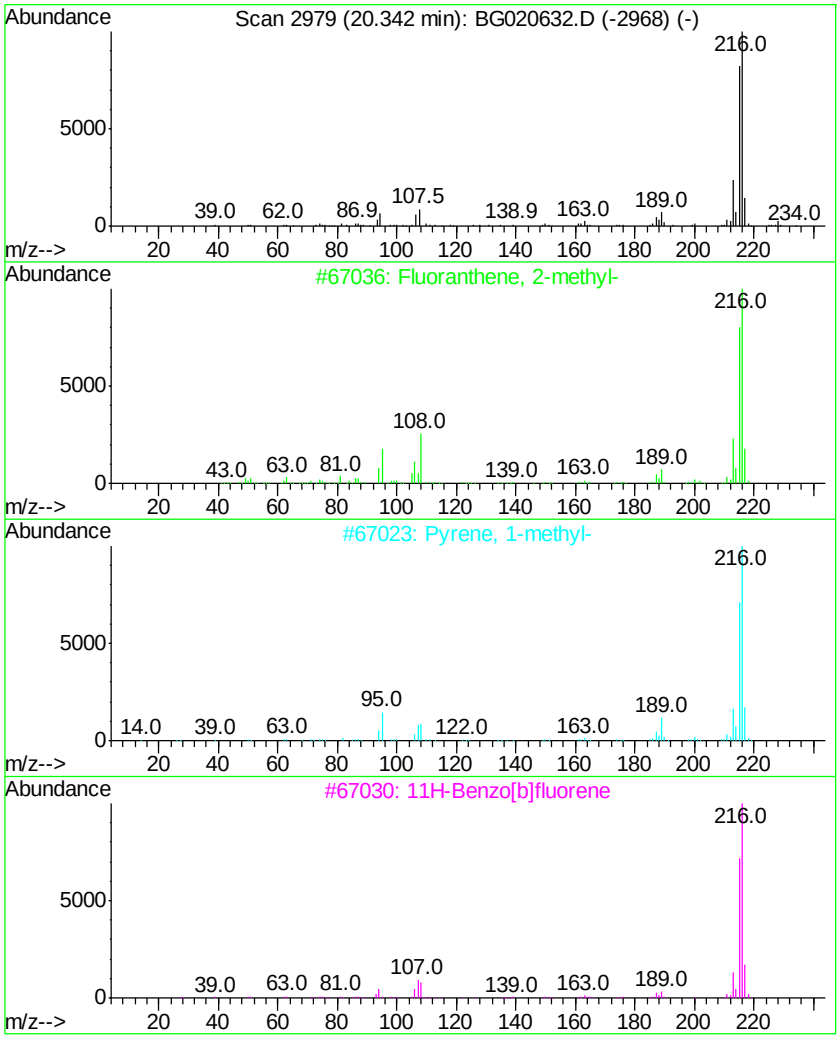
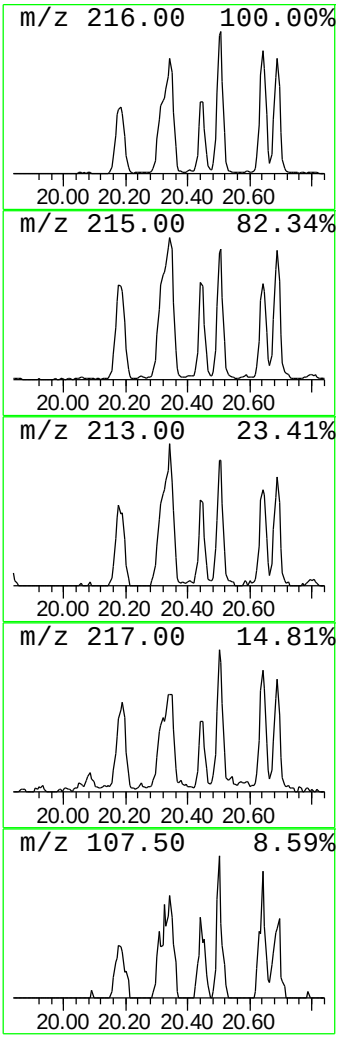
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.34	5.10 ng/ul	293122	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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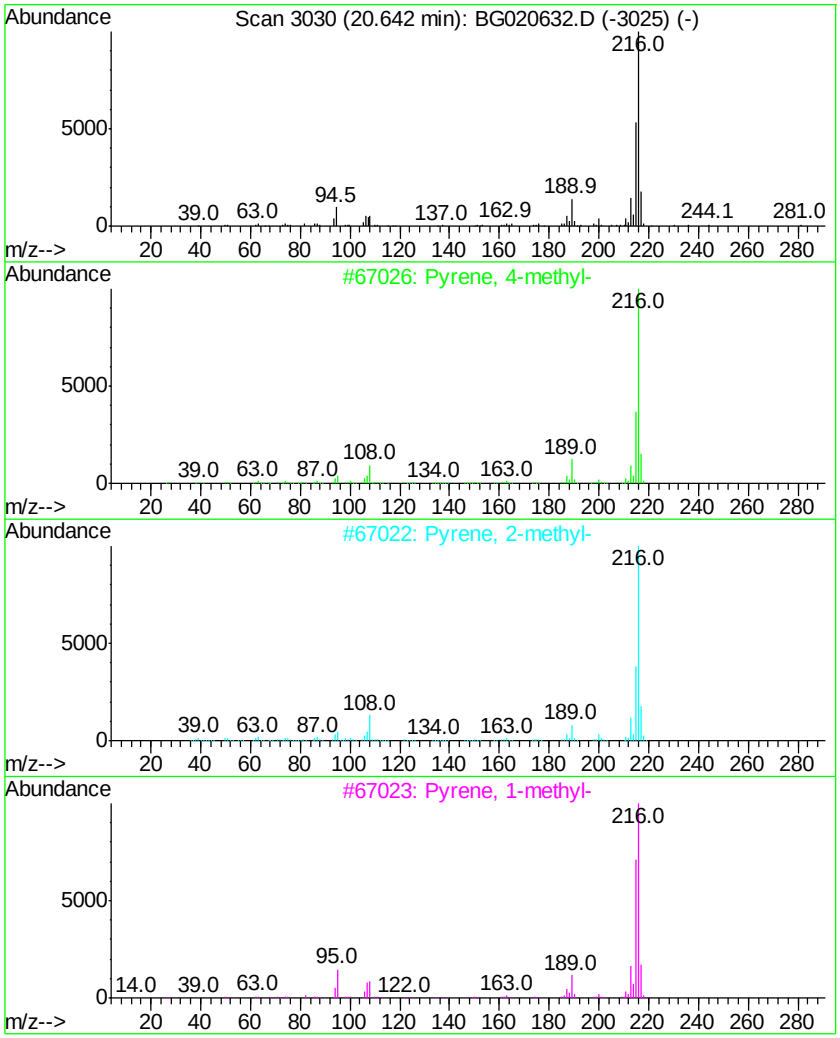
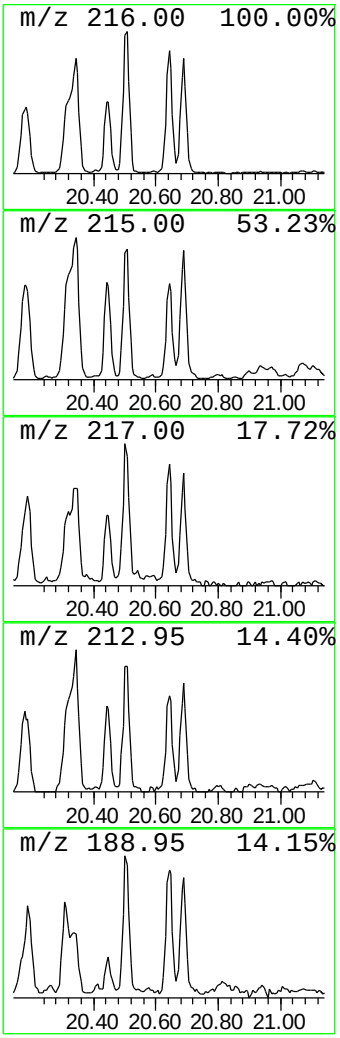
Peak Number 20 Pyrene, 4-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.64	2.56 ng/ul	147110	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94





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Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

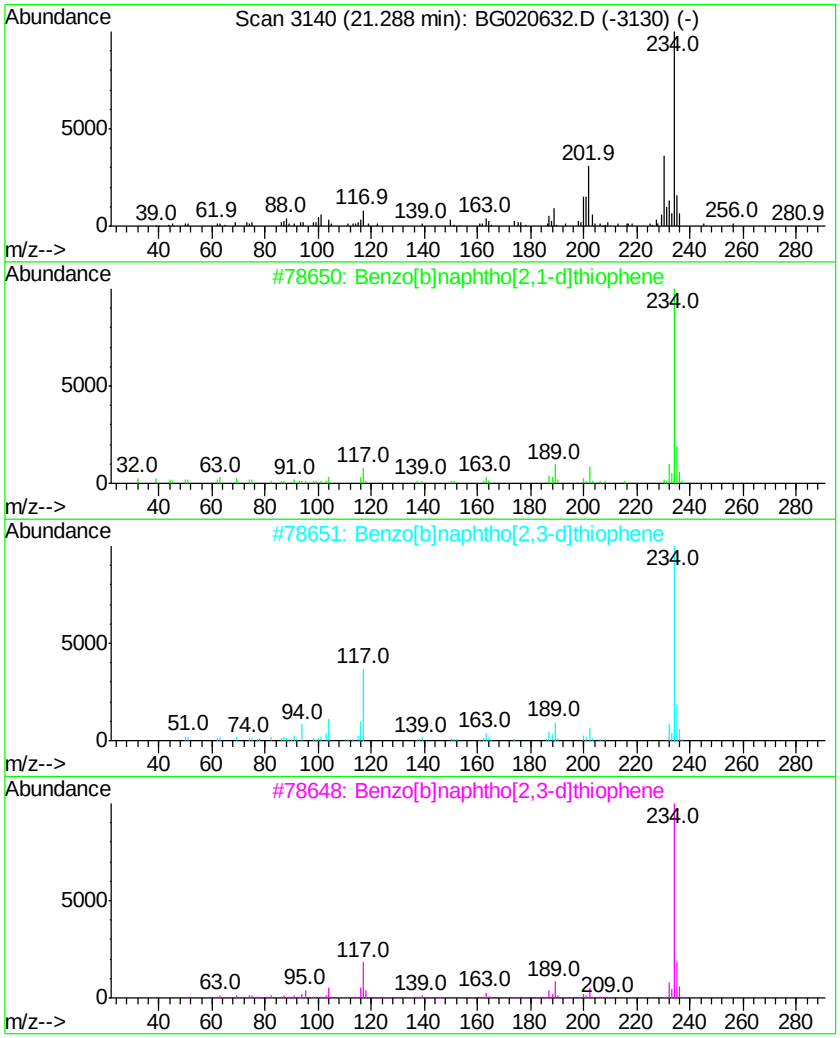
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

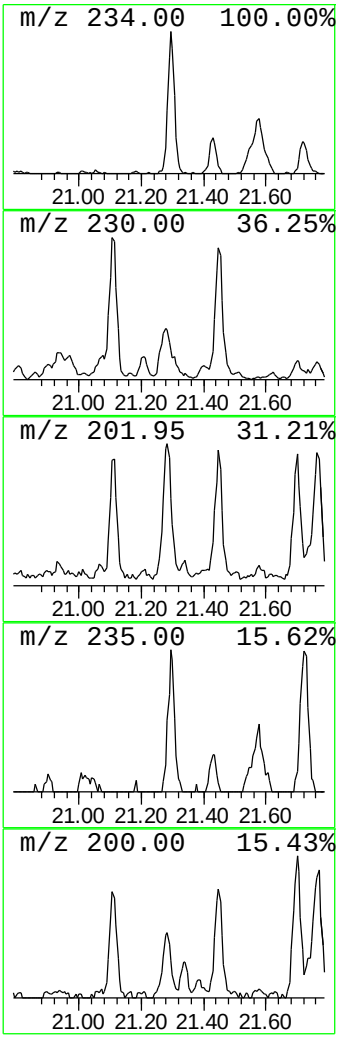
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.29	2.16 ng/ul	124074	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	64
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	64
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	52
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	52
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	49





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Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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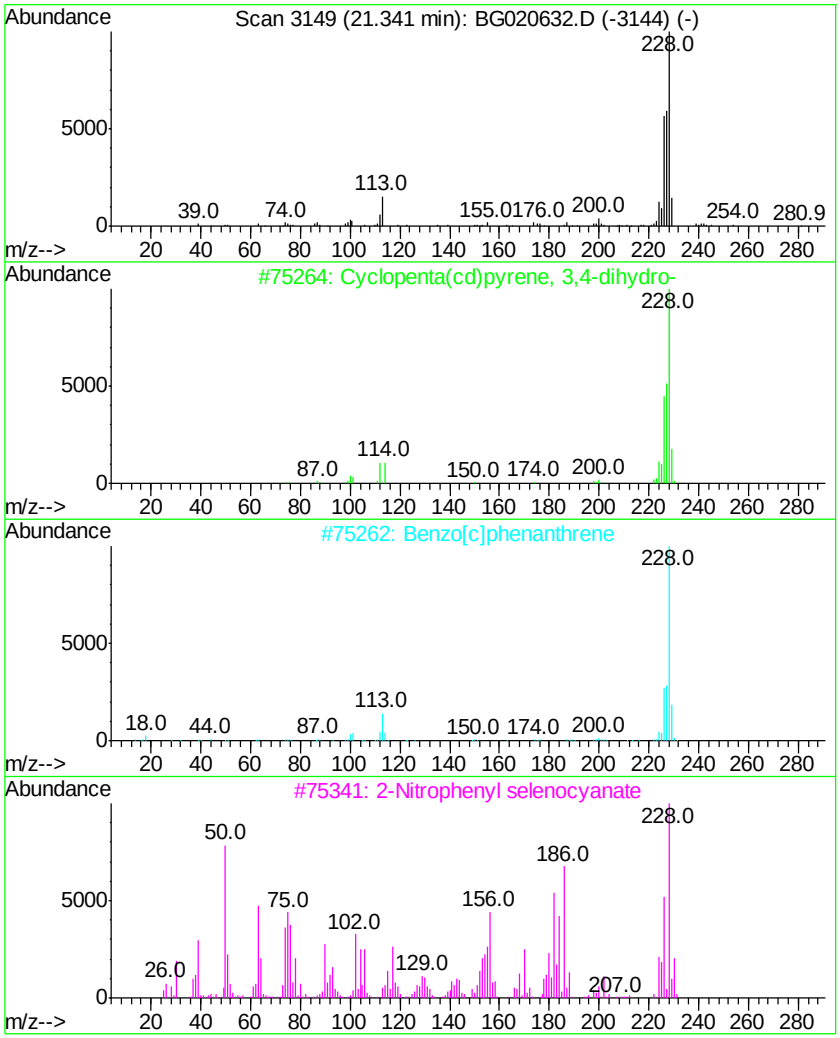
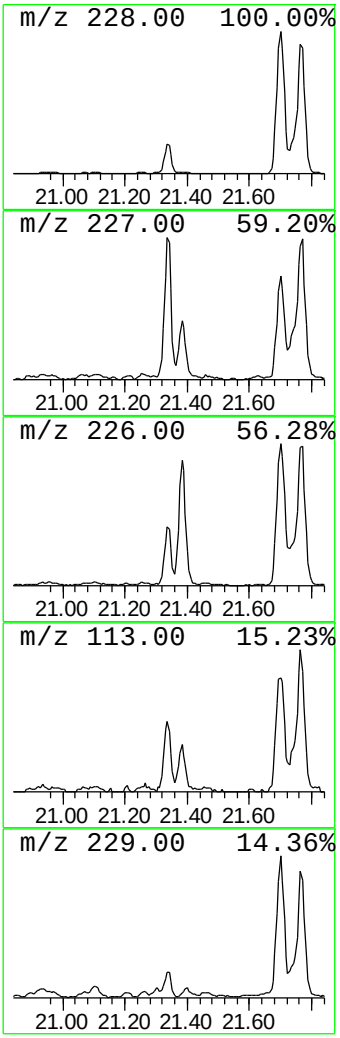
Peak Number 23 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.34	2.46 ng/ul	141208	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	83
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	52
3	2-Nitrophenyl selenocyanate	228	C7H4N2O2Se	051694-22-5	47
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	47
5	Triphenylene	228	C18H12	000217-59-4	45





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Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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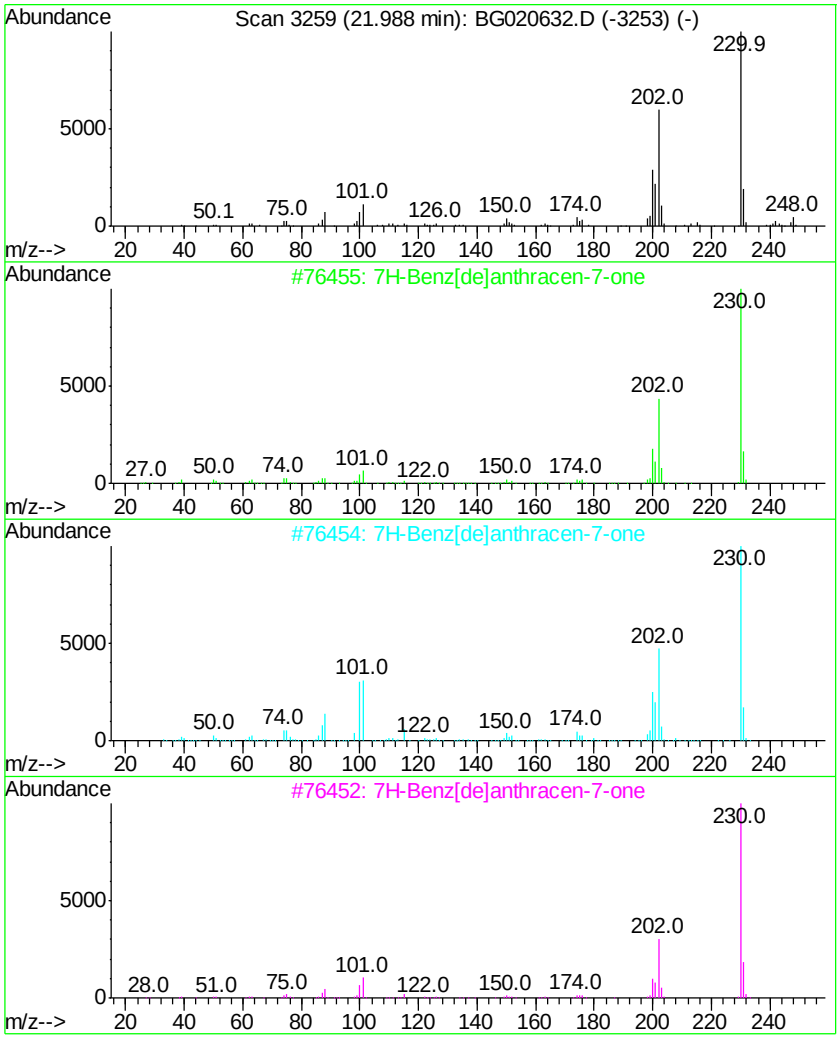
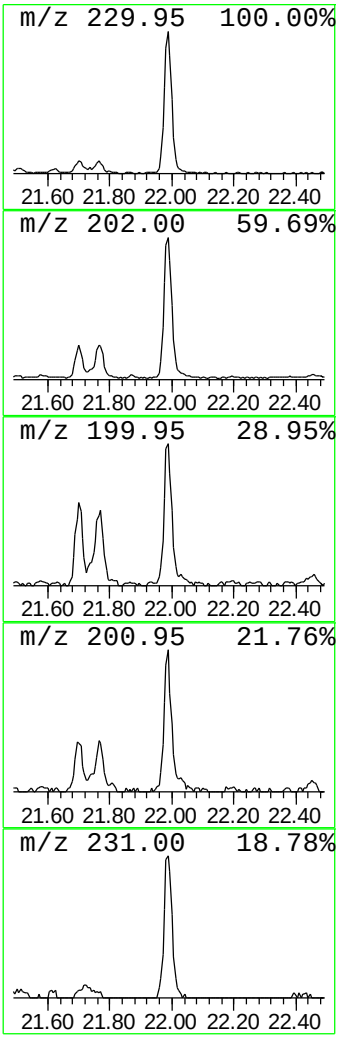
Peak Number 24 7H-Benz[de]anthracen-7-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.99	3.43 ng/ul	197098	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	94
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	78
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64





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Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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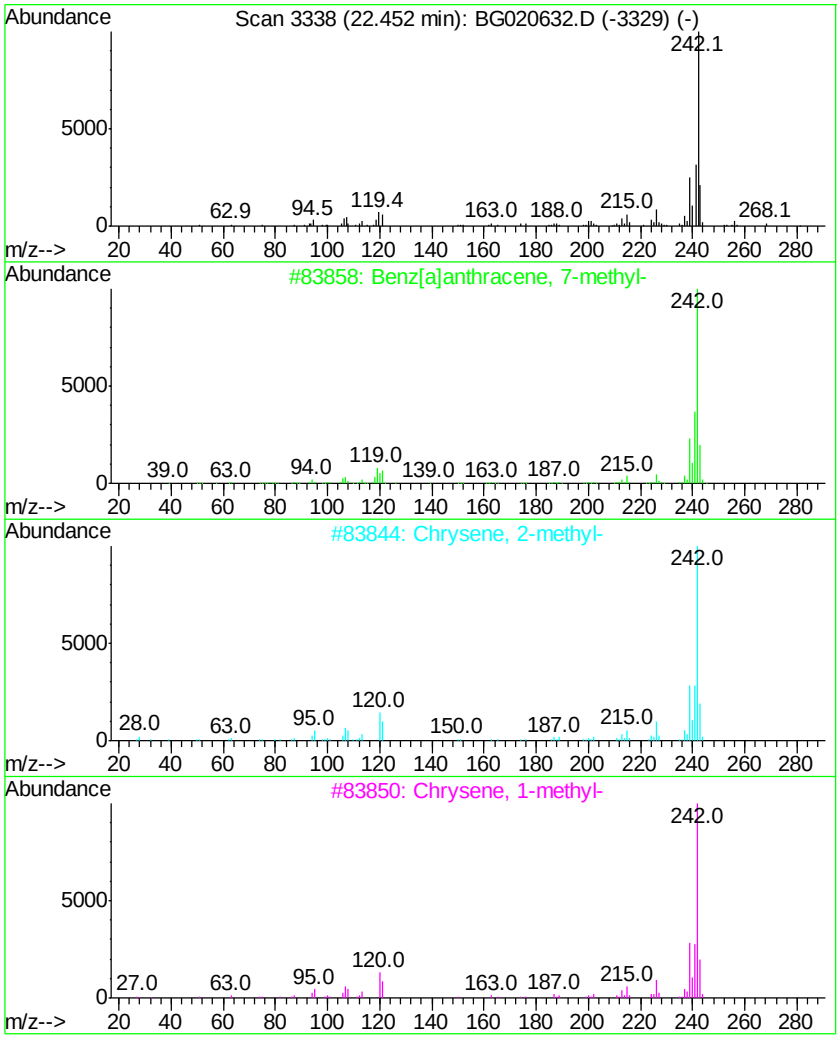
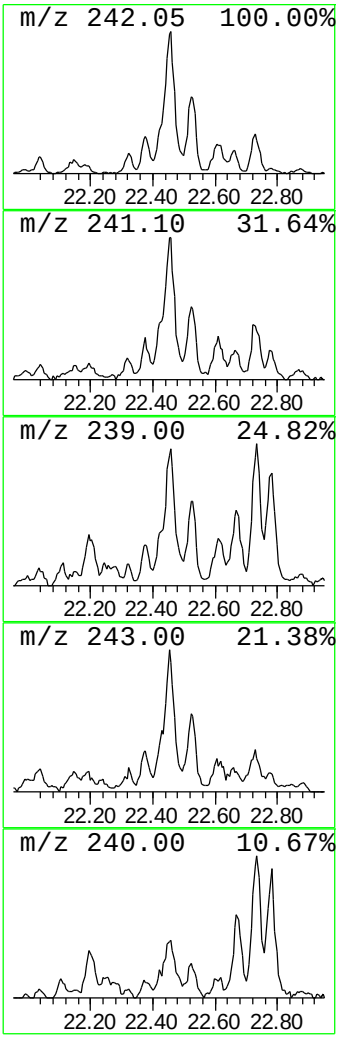
Peak Number 25 Benz[a]anthracene, 7-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.45	3.60 ng/ul	206618	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Chrysene, 2-methyl-	242	C19H14	003351-32-4	93
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91
5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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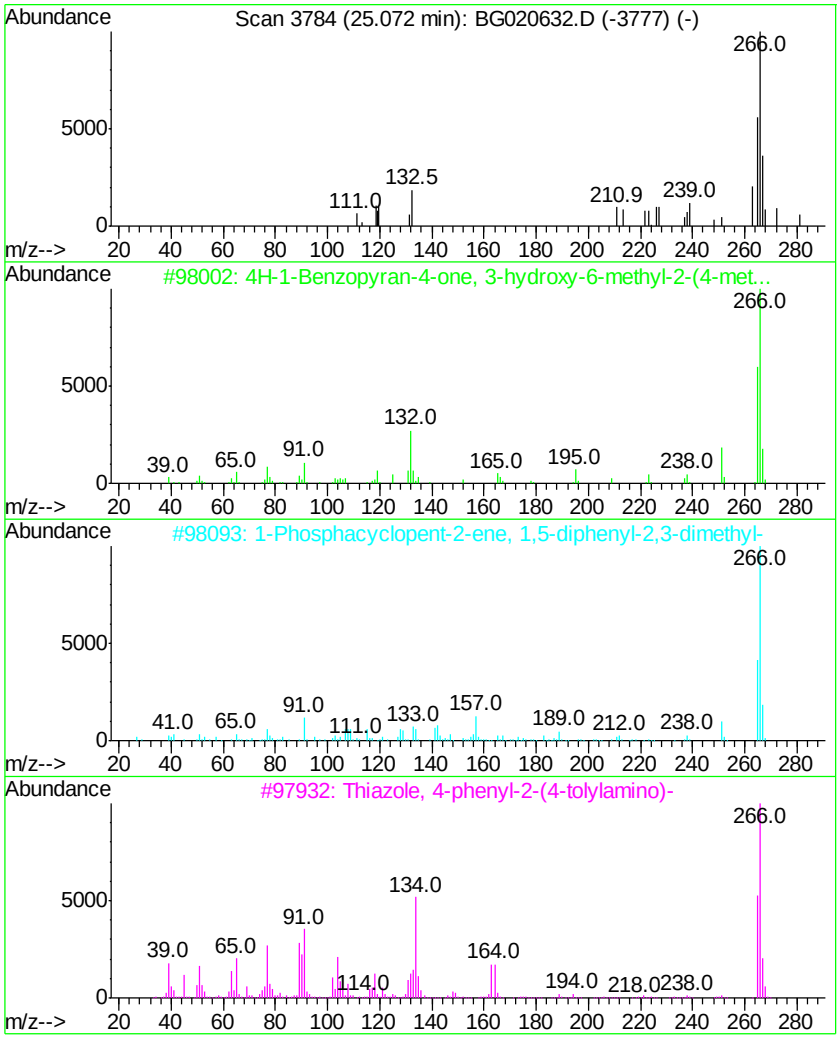
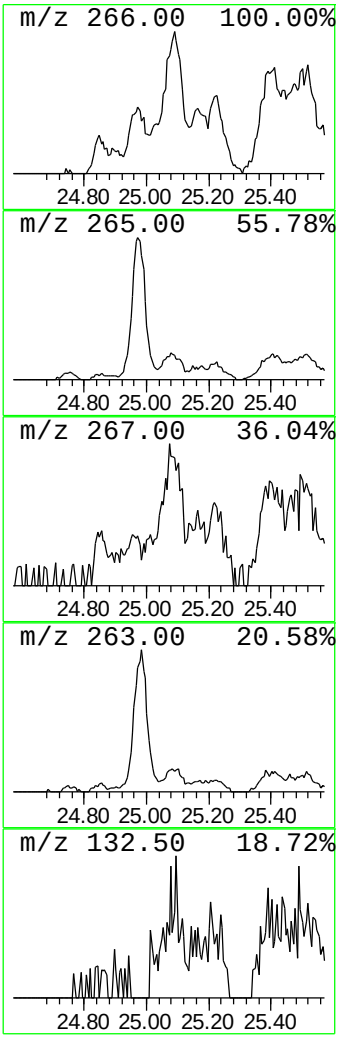
Peak Number 28 4H-1-Benzopyran-4-one, 3-hy... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.07	3.75 ng/ul	85104	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	53
2	1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	52
3	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	49
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	49
5	9,10-Anthracenedione, 1,4-bis(me...	266	C16H14N2O2	002475-44-7	49





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
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Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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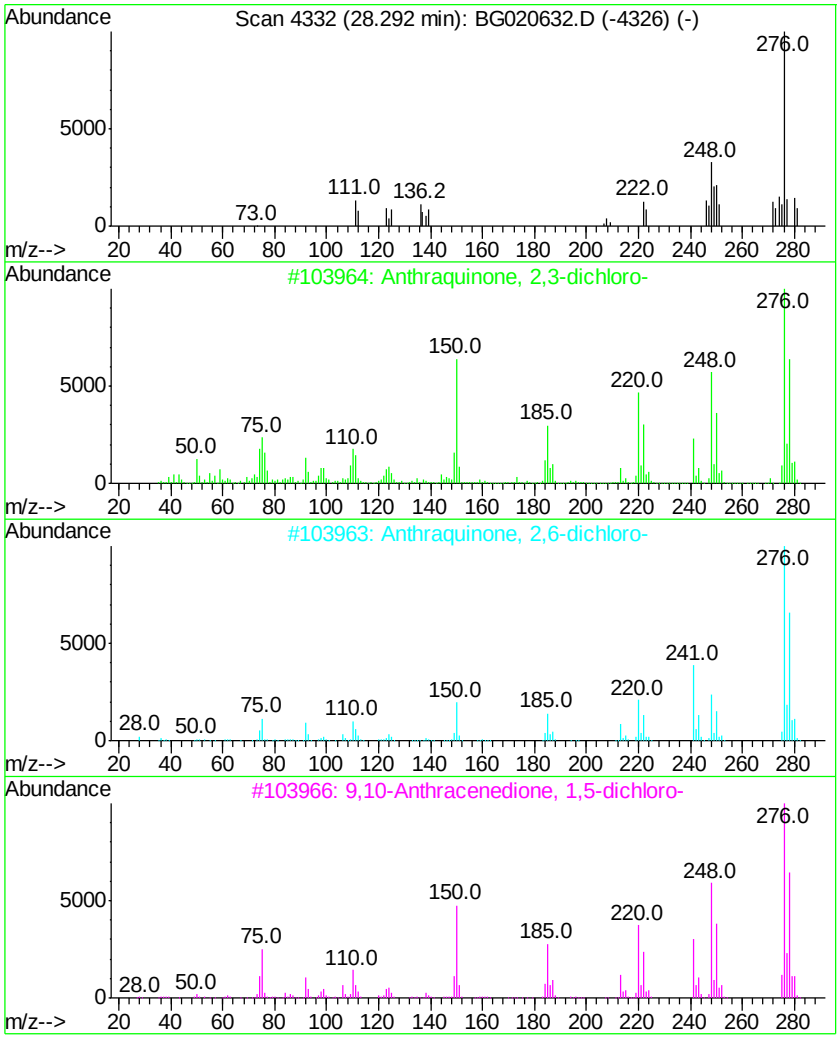
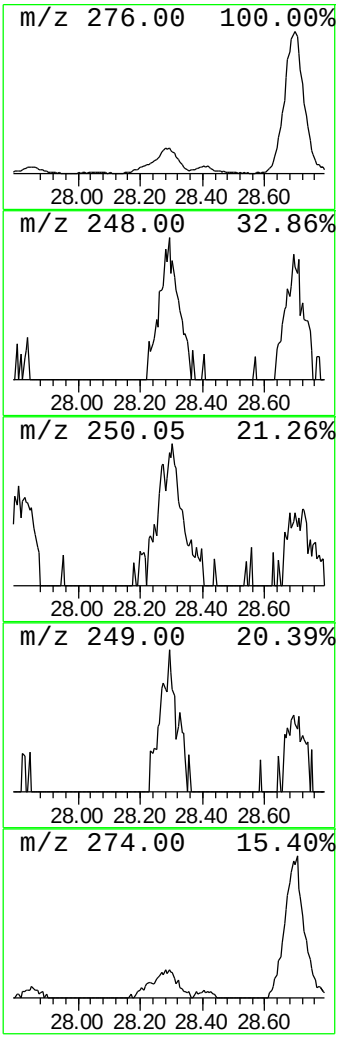
Peak Number 30 Anthraquinone, 2,3-dichloro- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
28.29	2.79 ng/ul	63273	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthraquinone, 2,3-dichloro-	276	C14H6Cl2O2	000084-45-7	59
2	Anthraquinone, 2,6-dichloro-	276	C14H6Cl2O2	000605-40-3	50
3	9,10-Anthracenedione, 1,5-dichloro-	276	C14H6Cl2O2	000082-46-2	43
4	Phenanthro[3,2-b]furan-7,11-dion...	276	C18H12O3	020958-17-2	40
5	2-Thiophenecarbaldehyde, 5-[5-(t...	276	C13H8OS3	1000217-28-5	38





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Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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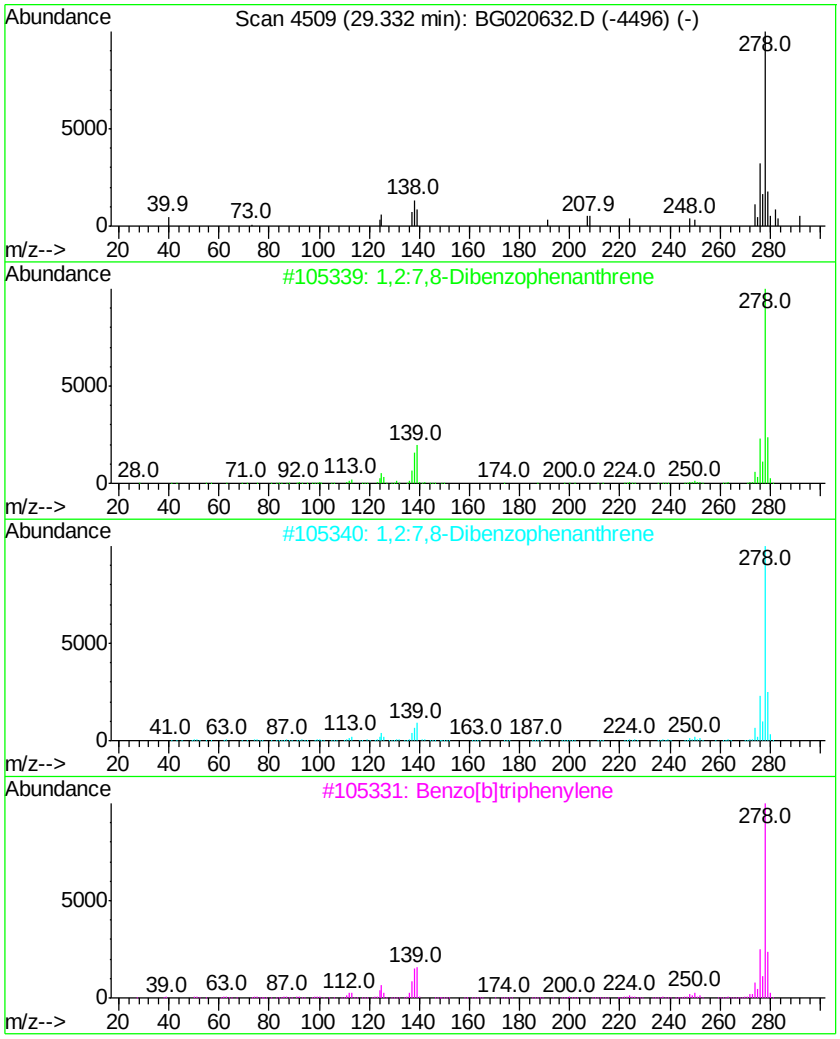
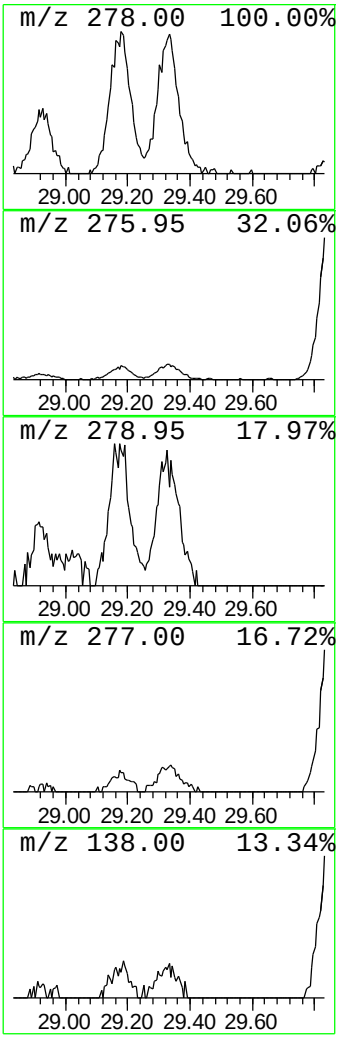
Peak Number 31 1,2:7,8-Dibenzophenanthrene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.33	2.48 ng/ul	56250	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	62
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	58
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	53
4	2-Hydroxylamino-4,6-dipiperidino...	278	C13H22N6O	092107-84-1	53
5	Propenamide, 2-cyano-3-phenyl-N-...	278	C17H14N2O2	341935-45-3	53





Tentatively Identified Compound (LSC) summary

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Data File : BG020632.D
Acq On : 31 Dec 2015 8:46
Operator : UM/SJ
Sample : G4802-10DL 30X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D85DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.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
Naphthalene, 1-me...	12.75	2.0	ng/ul	18457	2	10.88	184511	20.0
Naphthalene, 2,3-...	14.03	3.0	ng/ul	45534	3	14.70	298777	20.0
Naphtho[2,3-b]thi...	17.26	2.1	ng/ul	39556	4	17.45	371849	20.0
Ethane, 1-(9-bora...	17.65	2.0	ng/ul	37952	4	17.45	371849	20.0
Benzene, 1-ethyl-...	17.85	2.2	ng/ul	40812	4	17.45	371849	20.0
Dibenzo[a,e]cyclo...	17.96	3.5	ng/ul	65053	4	17.45	371849	20.0
Phenanthrene, 2-m...	18.32	10.3	ng/ul	191967	4	17.45	371849	20.0
Phenanthrene, 1-m...	18.37	9.6	ng/ul	177931	4	17.45	371849	20.0
4H-Cyclopenta[def...	18.52	15.4	ng/ul	287101	4	17.45	371849	20.0
1H-Cyclopropa[l]p...	18.55	5.8	ng/ul	108136	4	17.45	371849	20.0
5,16[1',2']:8,13[...	18.81	7.8	ng/ul	144016	4	17.45	371849	20.0
9,10-Anthracenedione	18.86	8.2	ng/ul	152789	4	17.45	371849	20.0
9,10-Dimethylanth...	19.23	4.5	ng/ul	82801	4	17.45	371849	20.0
Cyclopenta(def)ph...	19.37	7.0	ng/ul	130322	4	17.45	371849	20.0
Pyrene, 1-methyl-	20.19	3.1	ng/ul	176222	5	21.72	1148950	20.0
Fluoranthene, 2-m...	20.34	5.1	ng/ul	293122	5	21.72	1148950	20.0
Pyrene, 4-methyl-	20.64	2.6	ng/ul	147110	5	21.72	1148950	20.0
Benzo[b]naphtho[2...	21.29	2.2	ng/ul	124074	5	21.72	1148950	20.0
Cyclopenta(cd)pyr...	21.34	2.5	ng/ul	141208	5	21.72	1148950	20.0
7H-Benz[de]anthra...	21.99	3.4	ng/ul	197098	5	21.72	1148950	20.0
Benz[a]anthracene...	22.45	3.6	ng/ul	206618	5	21.72	1148950	20.0
4H-1-Benzopyran-4...	25.07	3.8	ng/ul	85104	6	24.97	453624	20.0
Anthraquinone, 2,...	28.29	2.8	ng/ul	63273	6	24.97	453624	20.0
1,2:7,8-Dibenzoph...	29.33	2.5	ng/ul	56250	6	24.97	453624	20.0