LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM052016.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	2.634	3	8	20	rVB2	47538	104054	1.03%	0.097%
2	5.822	544	550	562	rVB	97623	181546	1.80%	0.169%
3	7.004	739	751	765	rBV	554390	1000707	9.93%	0.932%
4	7.151	770	776	782	rBV	413849	661109	6.56%	0.616%
5	7.357	805	811	818	rVB	559162	919237	9.12%	0.856%
6	7.481	826	832	841	rBV2	82079	159079	1.58%	0.148%
7	7.822	880	890	897	rVB	592089	964645	9.57%	0.898%
8	8.357	975	981	994	rBV	219137	480349	4.77%	0.447%
9	8.534	1005	1011	1018	rBV	655271	1093314	10.85%	1.018%
10	8.981	1080	1087	1094	rBV	531468	888203	8.81%	0.827%
11	9.698	1203	1209	1220	rVB	431871	736073	7.30%	0.686%
12	10.045	1258	1268	1274	rBV5	52252	133201	1.32%	0.124%
13	10.245	1295	1302	1309	rVB	745014	1248690	12.39%	1.163%
14	10.616	1354	1365	1371	rBV	827946	1495438	14.83%	1.393%
15	10.751	1382	1388	1396	rVB	444519	797786	7.91%	0.743%
16	11.633	1533	1538	1546	rBV4	44944	105134	1.04%	0.098%
17	12.122	1611	1621	1632	rBV3	87248	249882	2.48%	0.233%
18	12.986	1763	1768	1773	rBV	83348	119186	1.18%	0.111%
19	13.274	1813	1817	1826	rVB4	62578	104703	1.04%	0.098%
20	13.780	1898	1903	1908	rBV2	66983	120889	1.20%	0.113%
21	13.868	1909	1918	1922	rVV	1194570	1790821	17.77%	1.668%
22	13.910	1922	1925	1940	rVB2	447192	964323	9.57%	0.898%
23	14.151	1960	1966	1968	rBV	1400910	2164791	21.47%	2.016%
24	14.186	1968	1972	1980	rVV	2609031	4390638	43.56%	4.089%
25	14.251	1980	1983	1994	rVB4	139278	333442	3.31%	0.311%
26	14.345	1994	1999	2003	rBV2	243053	397380	3.94%	0.370%
27	14.457	2010	2018	2024	rVV2	1102544	1854896	18.40%	1.727%
28	14.521	2024	2029	2036	rVB2	179739	342036	3.39%	0.319%
29	14.663	2047	2053	2054	rBV2	415880	597958	5.93%	0.557%
30	14.680	2054	2056	2064	rVB	497253	742333	7.36%	0.691%
31	15.063	2116	2121	2127	rBV5	94087	234535	2.33%	0.218%
32	15.245	2145	2152	2156	rBV5	141931	282345	2.80%	0.263%
33	15.304	2158	2162	2164	rVV	204248	261683	2.60%	0.244%
34	15.327	2164	2166	2172	rVB	150429	216708	2.15%	0.202%

LSC Area Percent Report

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Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM052016.M
Title : SVOA CALIBRATION

35	15.451	2182	2187	2192	rBV	1847438	2687701	26.66%	2.503%
36	15.510	2192	2197	2198	rBV2	128451	181260	1.80%	0.169%
37	15.710	2226	2231	2241	rBV2	294556	577287	5.73%	0.538%
38	16.186	2304	2312	2317	rBV3	854531	1721146	17.07%	1.603%
39	16.315	2331	2334	2338	rBV	97669	130609	1.30%	0.122%
40	16.956	2440	2443	2446	rVB	218379	227028	2.25%	0.211%
41	17.204	2480	2485	2489	rBV	1456770	2242731	22.25%	2.089%
42	17.245	2489	2492	2497	rVV	1258225	1745620	17.32%	1.626%
43	17.304	2497	2502	2505	rVV2	1869988	3002379	29.78%	2.796%
44	17.339	2505	2508	2513	rVV	1881973	2508742	24.89%	2.336%
45	17.392	2513	2517	2528	rVB2	234572	514618	5.11%	0.479%
46	17.692	2565	2568	2571	rBV	265236	308969	3.06%	0.288%
47	18.074	2631	2633	2638	rVV	174617	216844	2.15%	0.202%
48	18.127	2638	2642	2646	rVB	327202	473239	4.69%	0.441%
49	18.203	2651	2655	2660	rBV	504633	770861	7.65%	0.718%
50	18.274	2662	2667	2671	rBV3	845284	1495661	14.84%	1.393%
51	18.386	2682	2686	2690	rBV	414571	524605	5.20%	0.489%
52	18.574	2715	2718	2722	rVB	339271	438578	4.35%	0.408%
53	18.992	2785	2789	2791	rBV2	508559	758292	7.52%	0.706%
54	19.139	2810	2814	2822	rVB	809706	1292255	12.82%	1.203%
55	19.268	2830	2836	2841	rBV	5590110	8437238	83.70%	7.858%
56	19.409	2856	2860	2865	rBV	1095989	1553232	15.41%	1.447%
57	19.598	2887	2892	2894	rBV3	2869121	4404768	43.70%	4.102%
58	19.633	2894	2898	2905	rVV	6635889	10080591	100.00%	9.388%
59	19.703	2906	2910	2916	rVB3	469366	842290	8.36%	0.784%
60	19.868	2934	2938	2944	rVB	729313	1103551	10.95%	1.028%
61	19.950	2947	2952	2958	rVV2	589565	1427996	14.17%	1.330%
62	20.221	2994	2998	3001	rBV	688881	880918	8.74%	0.820%
63	20.421	3029	3032	3035	rBV	549273	618569	6.14%	0.576%
64	20.868	3105	3108	3114	rVB	865411	1217886	12.08%	1.134%
65	21.109	3147	3149	3154	rVB2	969141	1208262	11.99%	1.125%
66	21.374	3189	3194	3199	rBV2	4256571	8213891	81.48%	7.650%
67	21.427	3199	3203	3212	rVB	4215807	6125547	60.77%	5.705%
68	23.003	3466	3471	3477	rBV	2618546	5958501	59.11%	5.549%
69	23.497	3551	3555	3559	rVB	1048678	1616705	16.04%	1.506%
70	23.597	3567	3572	3582	rVB	2900648	5730307	56.84%	5.337%

LSC Area Percent Report

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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM052016.M
Title : SVOA CALIBRATION

Sum of corrected areas: 107375791

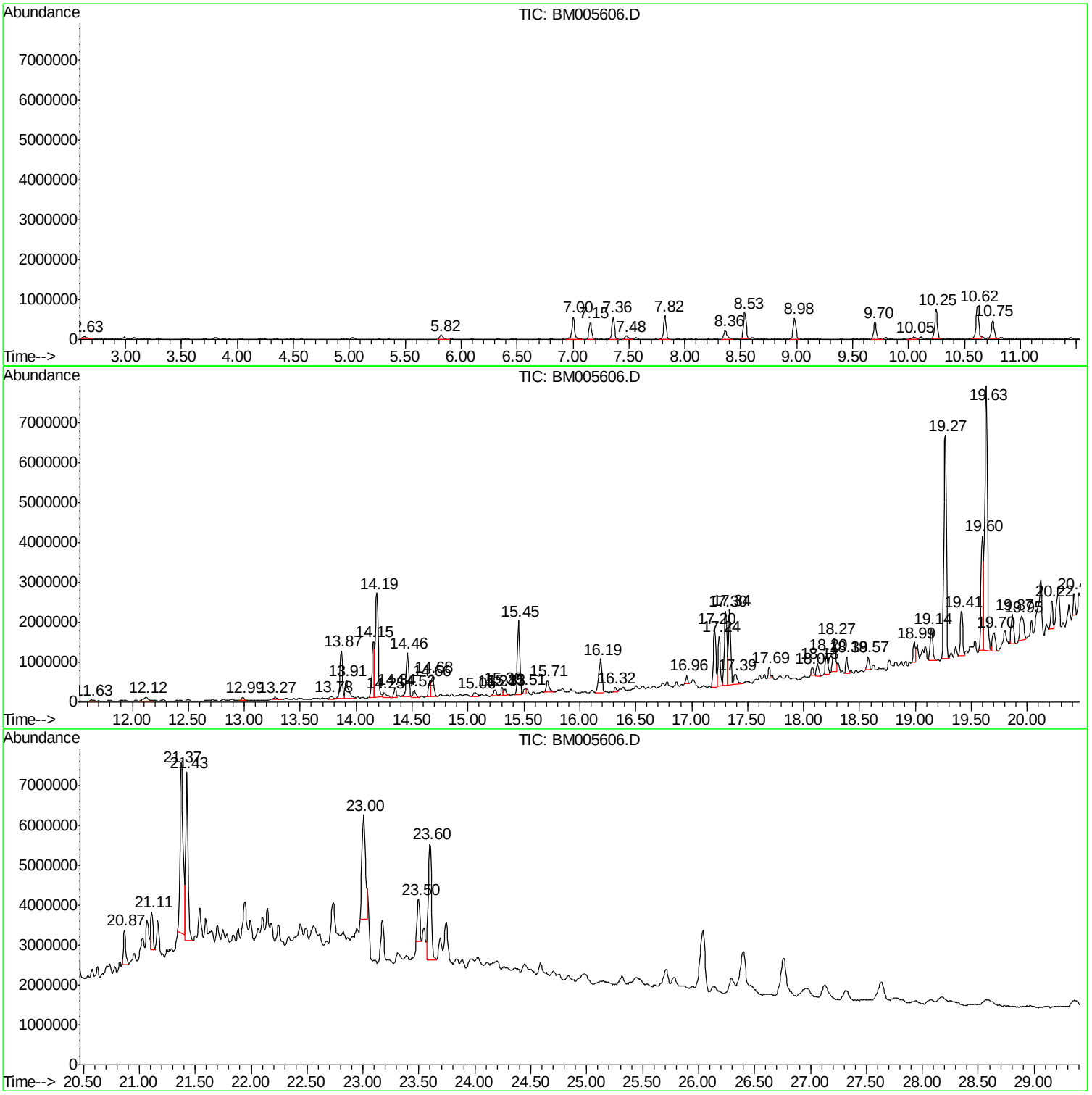
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

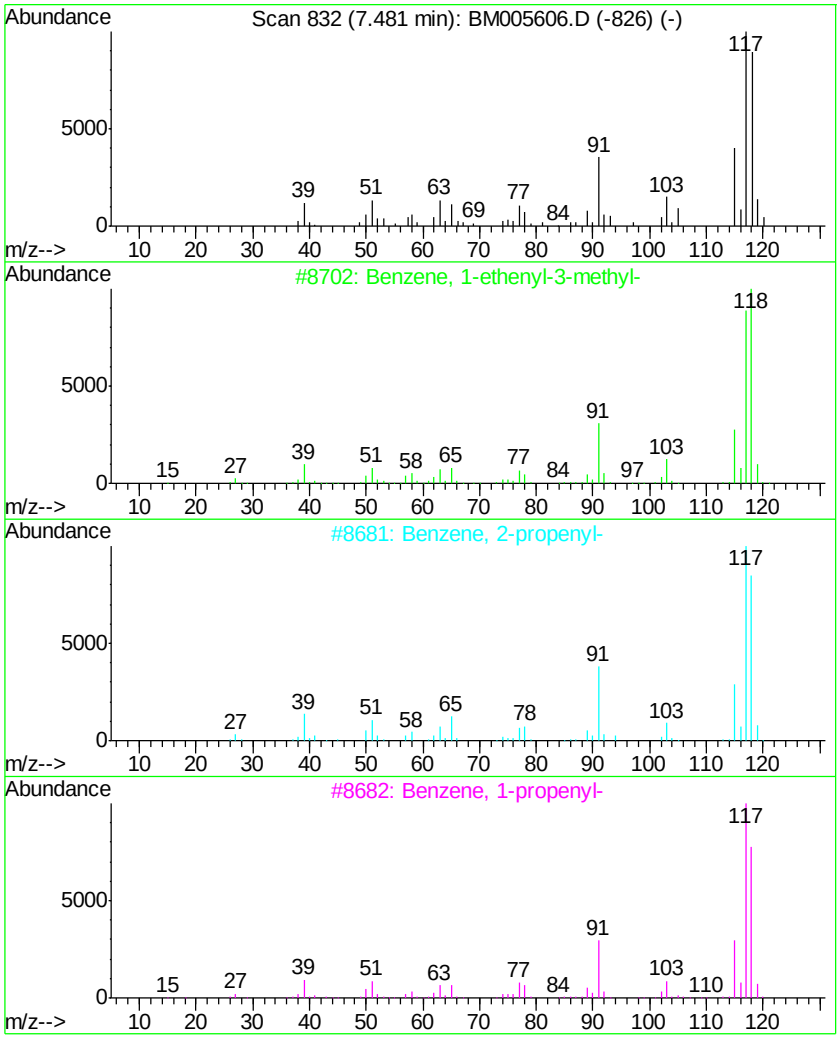
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

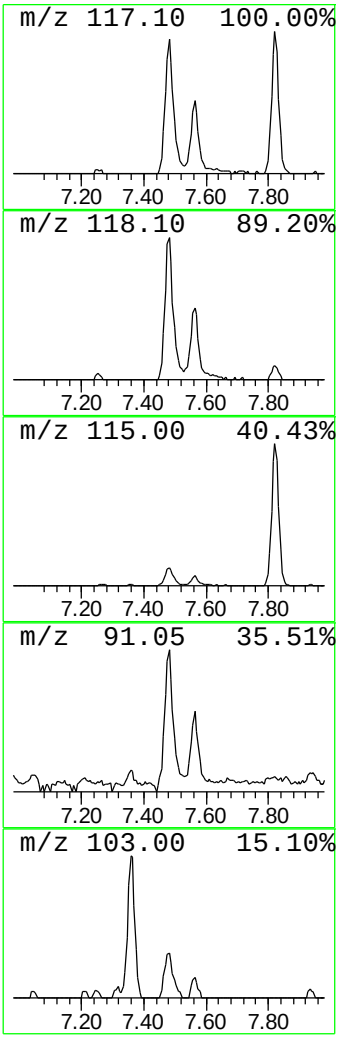
****

Peak Number 3 Benzene, 1-ethenyl-3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.48	3.30 ng/ul	159079	1,4-Dichlorobenzene-d4	7.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	95
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	94
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	94
4	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	94
5	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

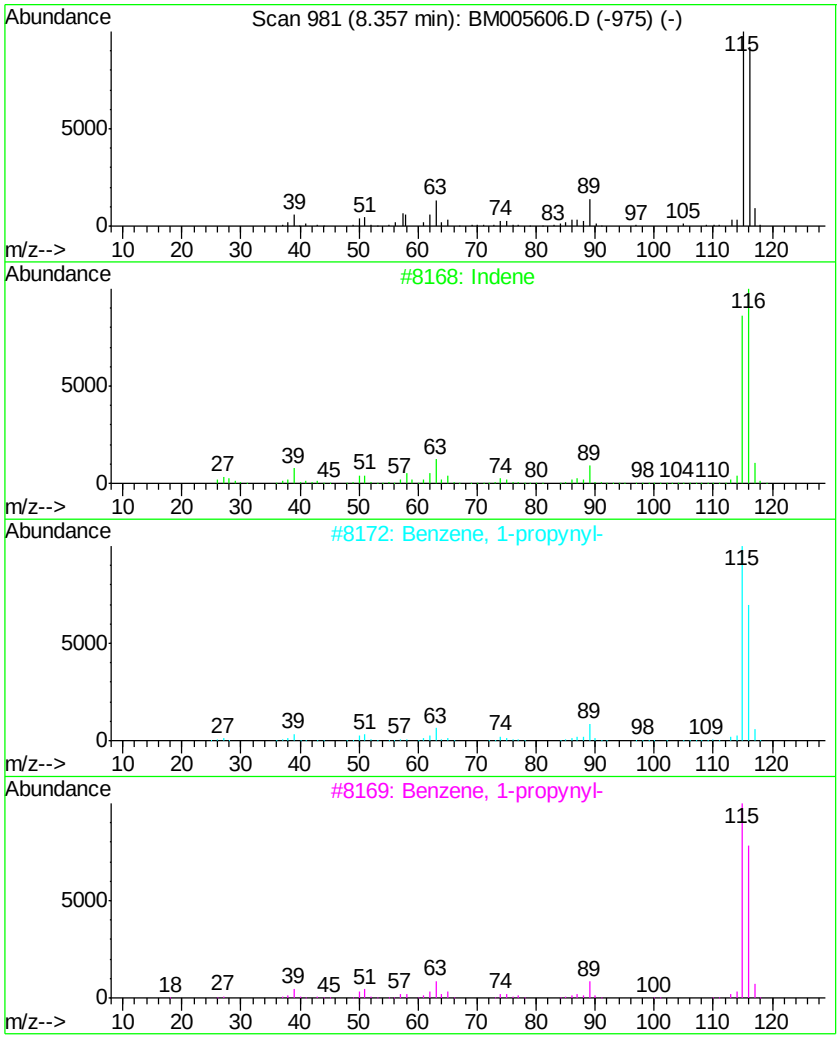
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

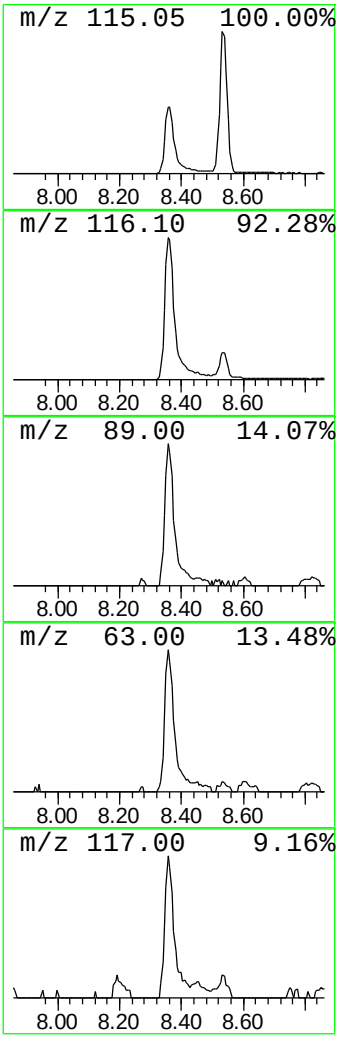
****

Peak Number 4 Indene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.36	9.96 ng/ul	480349	1,4-Dichlorobenzene-d4	7.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	95
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	95
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
4	Indene	116	C9H8	000095-13-6	93
5	Indene	116	C9H8	000095-13-6	91





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

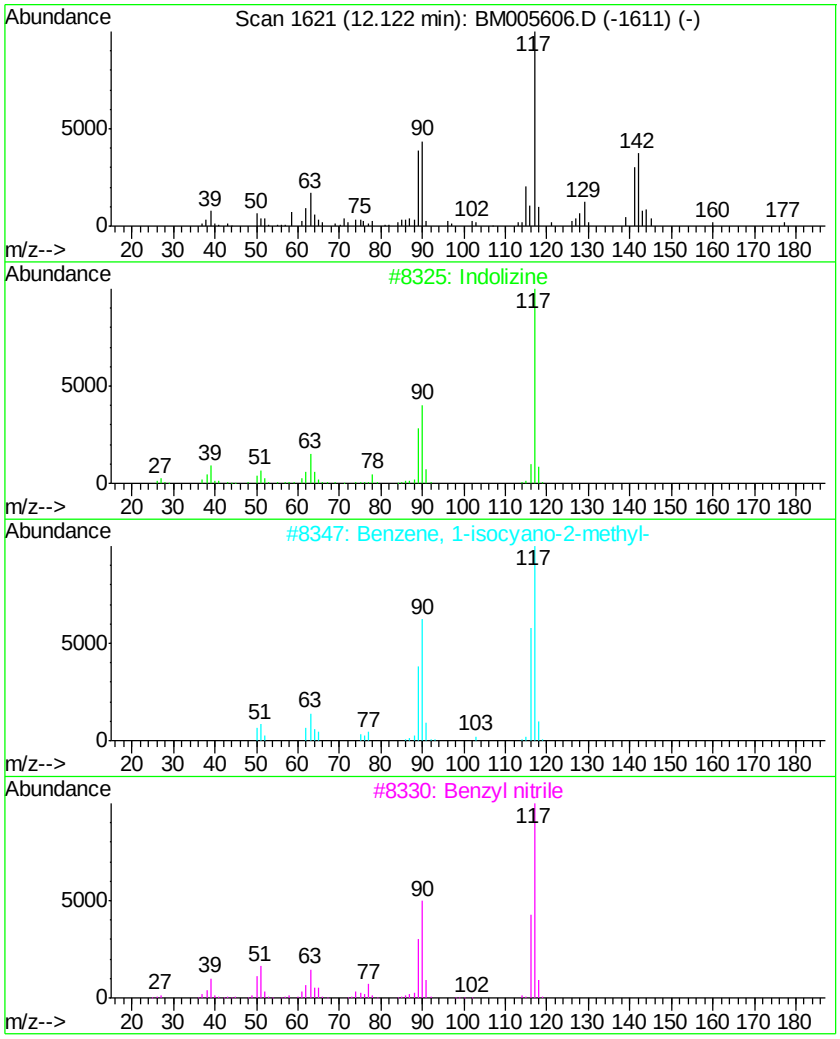
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

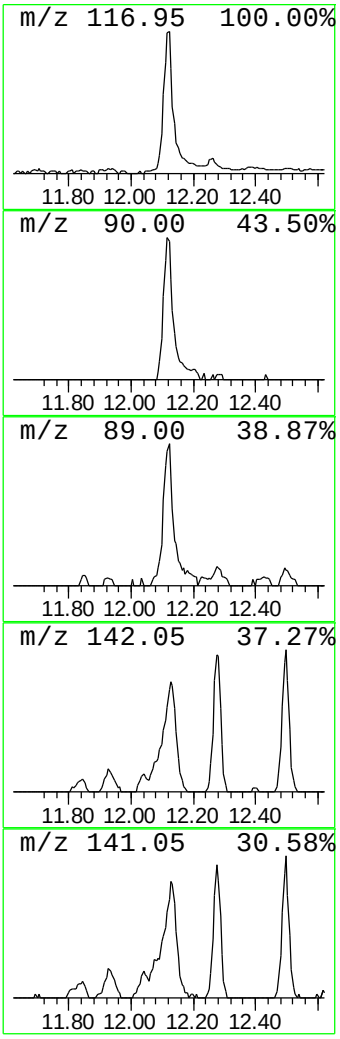
****

Peak Number 5 Indolizine Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	3.34 ng/ul	249882	Naphthalene-d8	10.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indolizine	117	C8H7N	000274-40-8	70
2	Benzene, 1-isocyano-2-methyl-	117	C8H7N	010468-64-1	64
3	Benzyl nitrile	117	C8H7N	000140-29-4	64
4	Indole	117	C8H7N	000120-72-9	60
5	Indole	117	C8H7N	000120-72-9	58





Library Search Compound Report

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Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

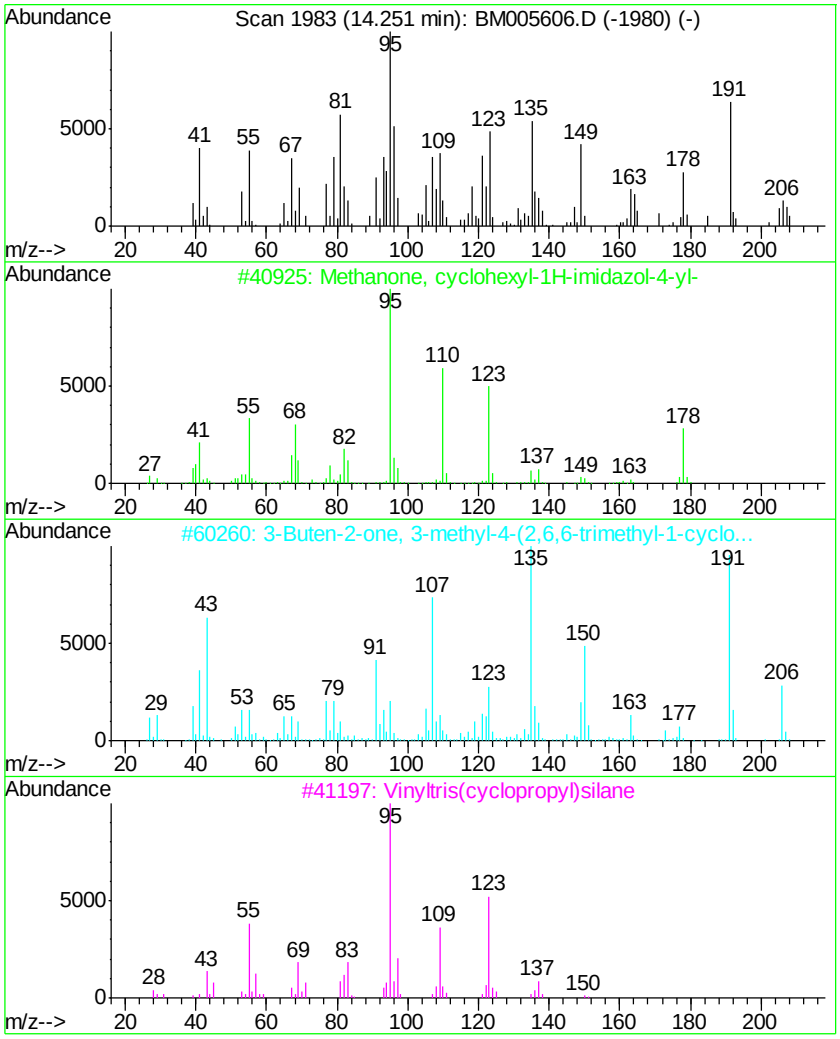
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

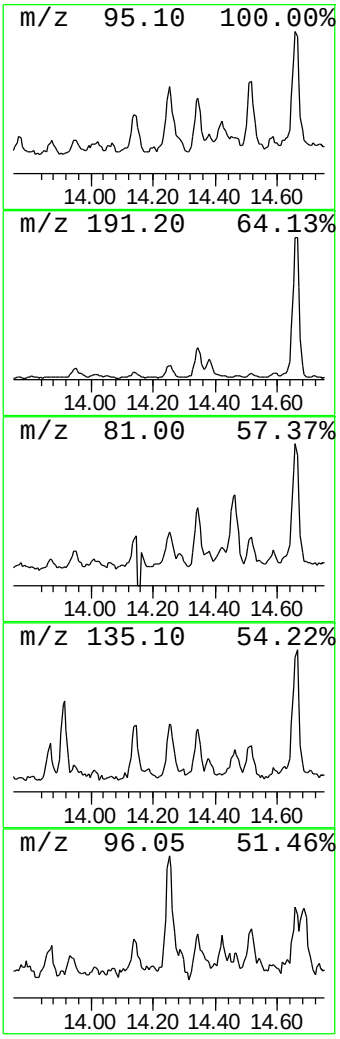
****

Peak Number 6 unknown-01 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	3.60 ng/ul	333442	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, cyclohexyl-1H-imidazo...	178	C10H14N2O	061985-29-3	38
2	3-Buten-2-one, 3-methyl-4-(2,6,6...	206	C14H22O	000079-89-0	25
3	Vinyltris(cyclopropyl)silane	178	C11H18Si	1000109-97-3	22
4	Perhydrophenanthrene, (4a.alpha....	192	C14H24	027389-74-8	22
5	Cyclopentene, 1-isopropyl-2,3-di...	138	C10H18	007712-73-4	22





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Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

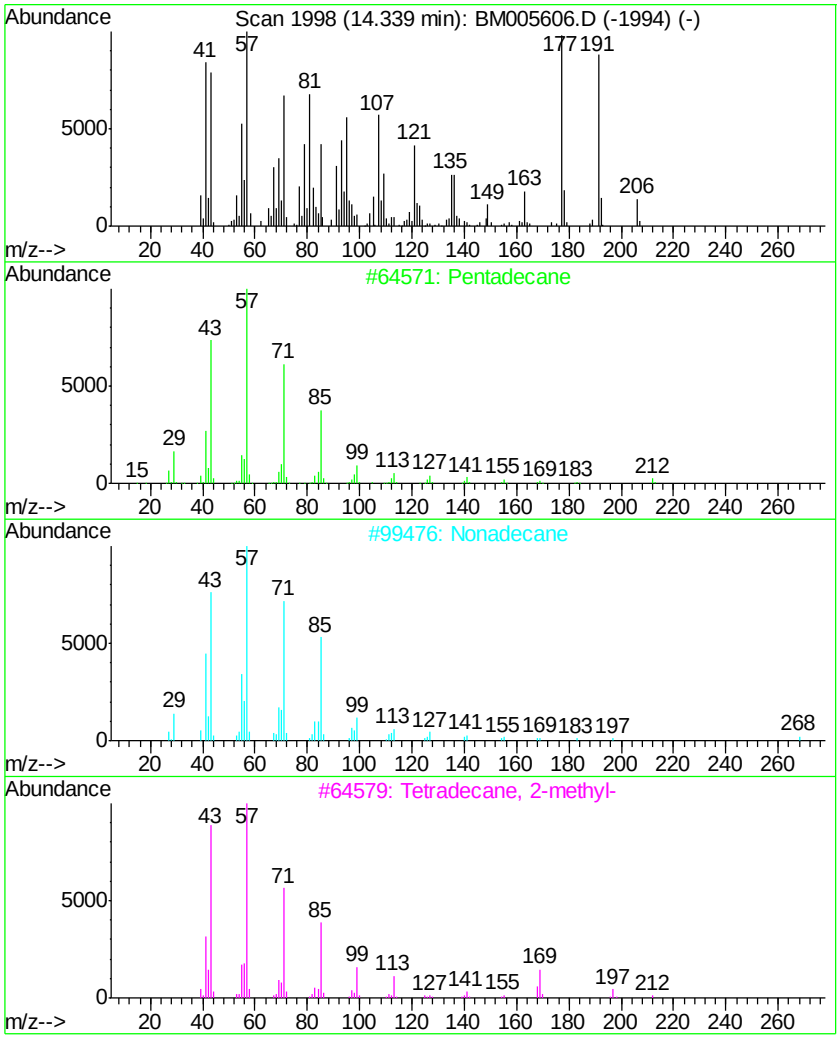
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

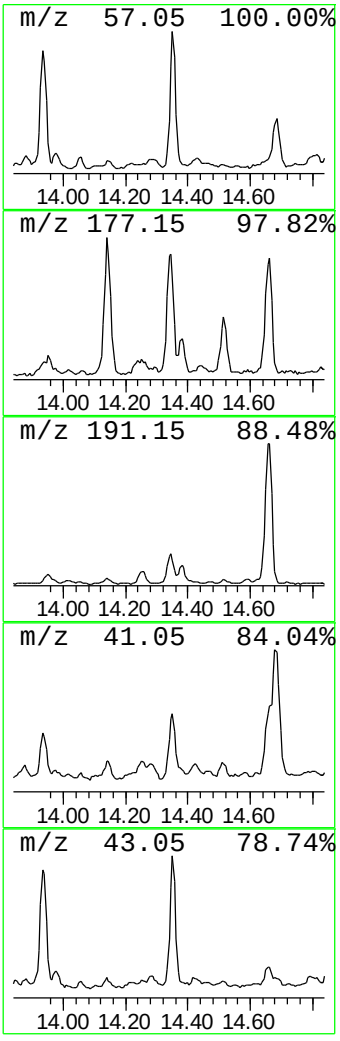
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	4.28 ng/ul	397380	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	47
2	Nonadecane	268	C19H40	000629-92-5	30
3	Tetradecane, 2-methyl-	212	C15H32	001560-95-8	30
4	10-Methylnonadecane	282	C20H42	056862-62-5	25
5	Eicosane	282	C20H42	000112-95-8	25





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Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

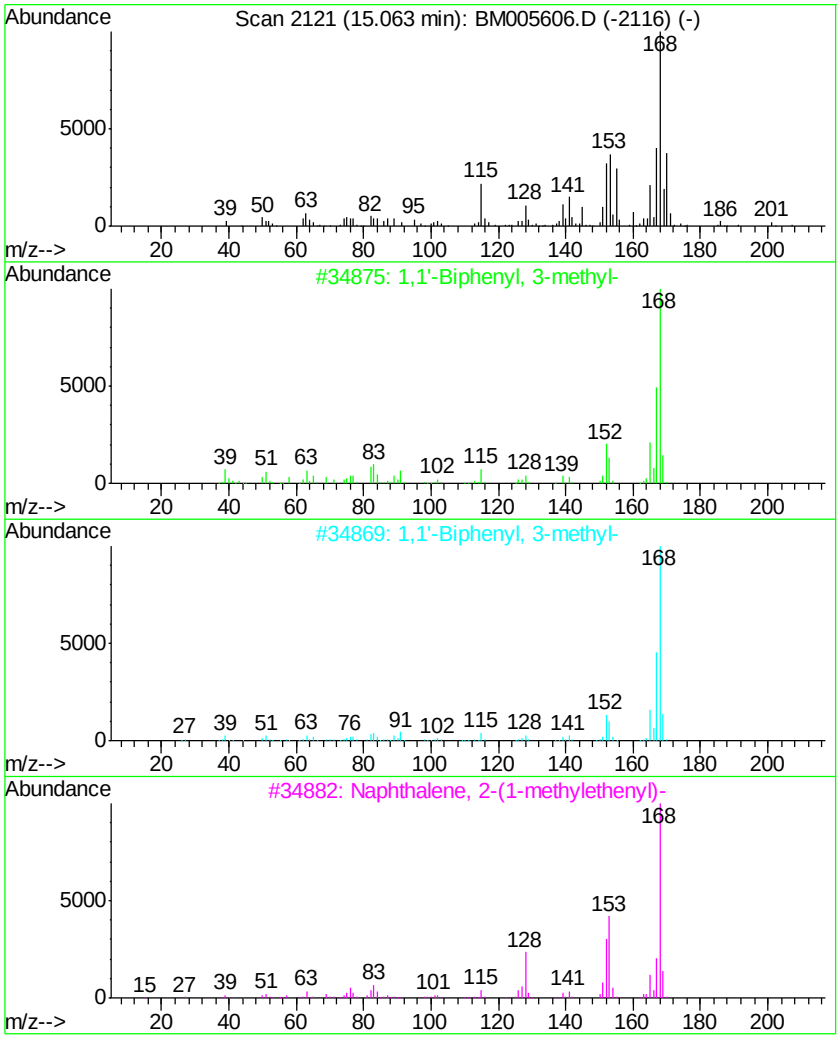
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

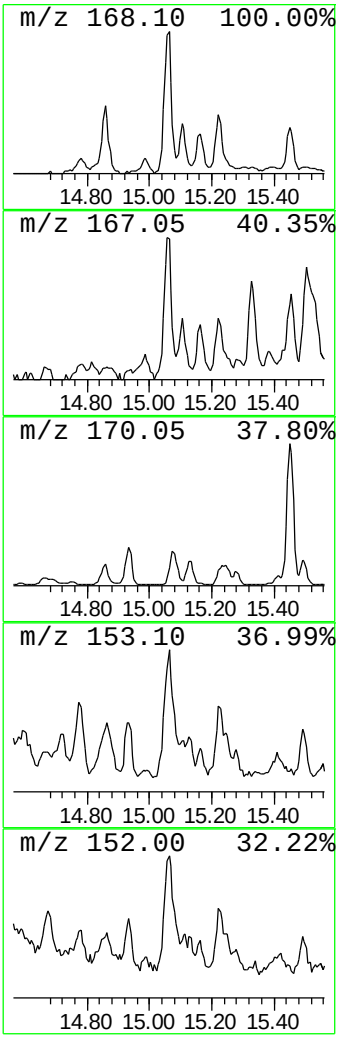
****

Peak Number 8 1,1'-Biphenyl, 3-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	2.53 ng/ul	234535	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	70
2	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	58
3	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	49
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	47
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	45





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

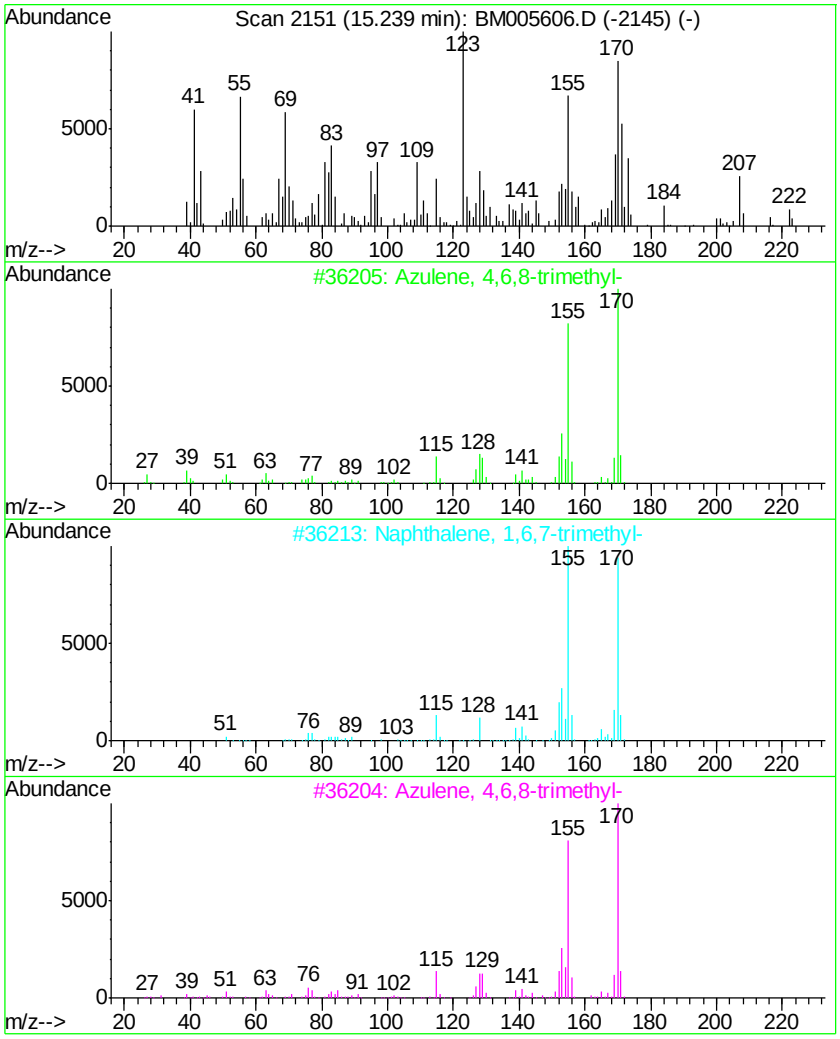
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

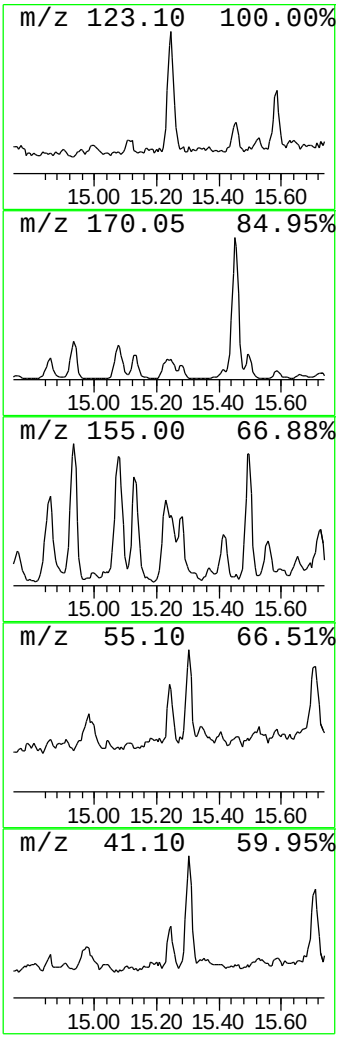
****

Peak Number 9 Azulene, 4,6,8-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	3.04 ng/ul	282345	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	87
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	55
3	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	50
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	50
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	50





Library Search Compound Report

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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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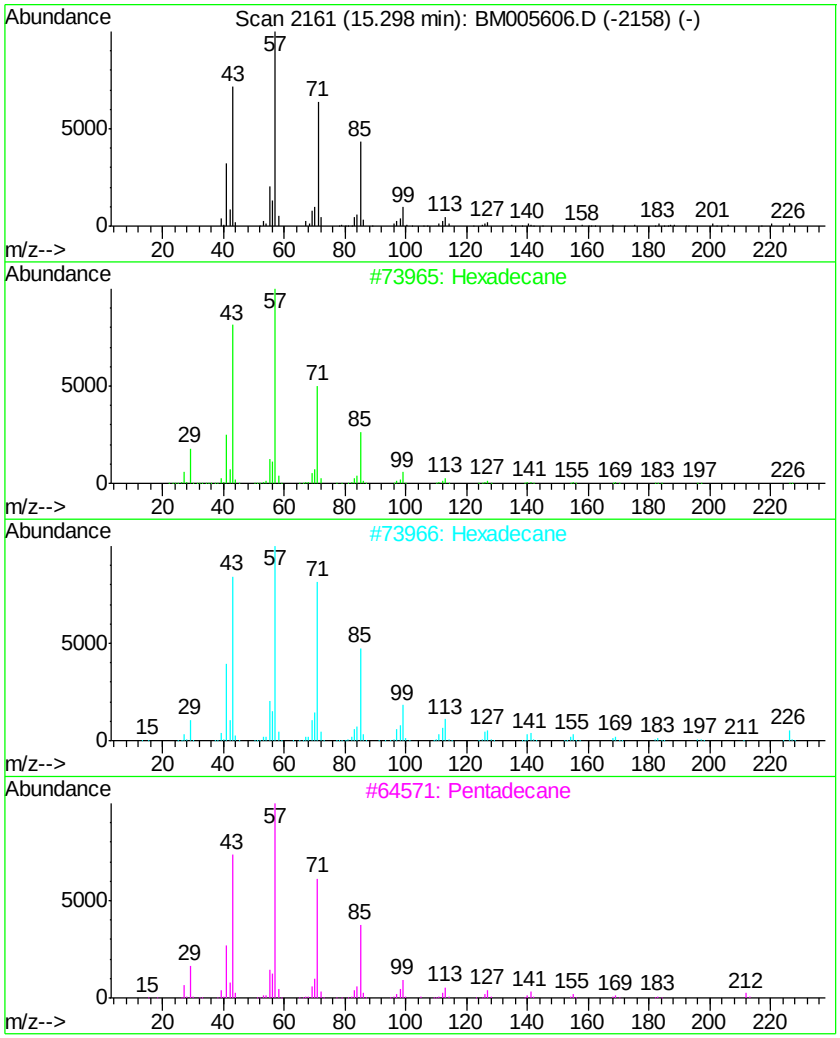
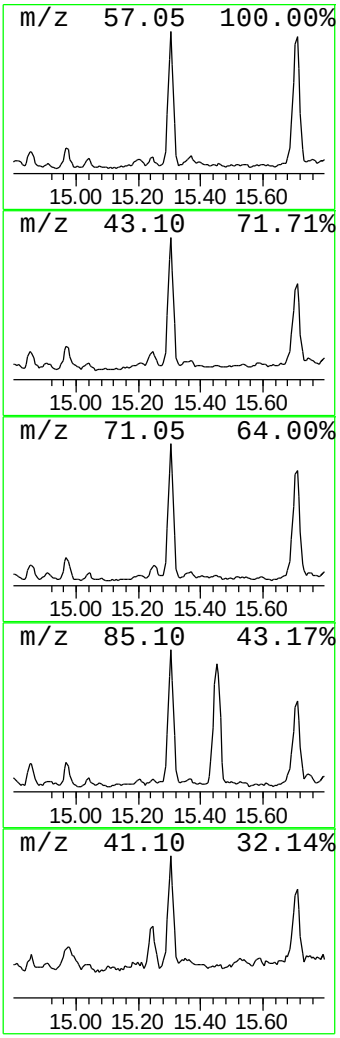
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	2.82 ng/ul	261683	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	94
2	Hexadecane	226	C16H34	000544-76-3	91
3	Pentadecane	212	C15H32	000629-62-9	90
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	83
5	Tetradecane	198	C14H30	000629-59-4	78





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Quant Title : SVOA CALIBRATION

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

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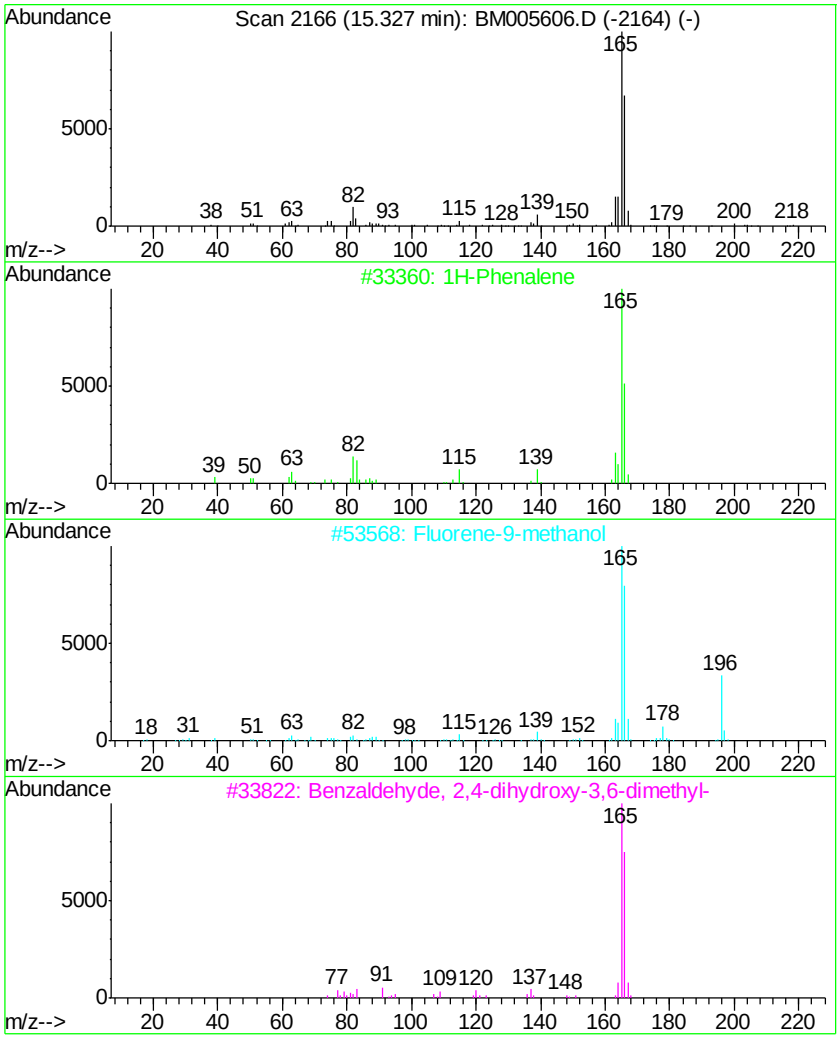
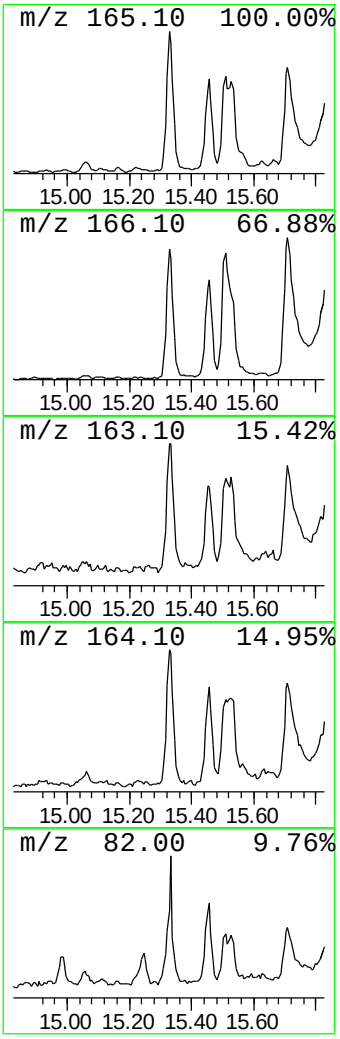
Peak Number 11 1H-Phenalene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	2.34 ng/ul	216708	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Phenalene	166	C13H10	000203-80-5	72
2	Fluorene-9-methanol	196	C14H12O	024324-17-2	72
3	Benzaldehyde, 2,4-dihydroxy-3,6-...	166	C9H10O3	034883-14-2	64
4	3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	64
5	1,3-Benzodioxole-5-carboxylic acid	166	C8H6O4	000094-53-1	59





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Quant Title : SVOA CALIBRATION

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

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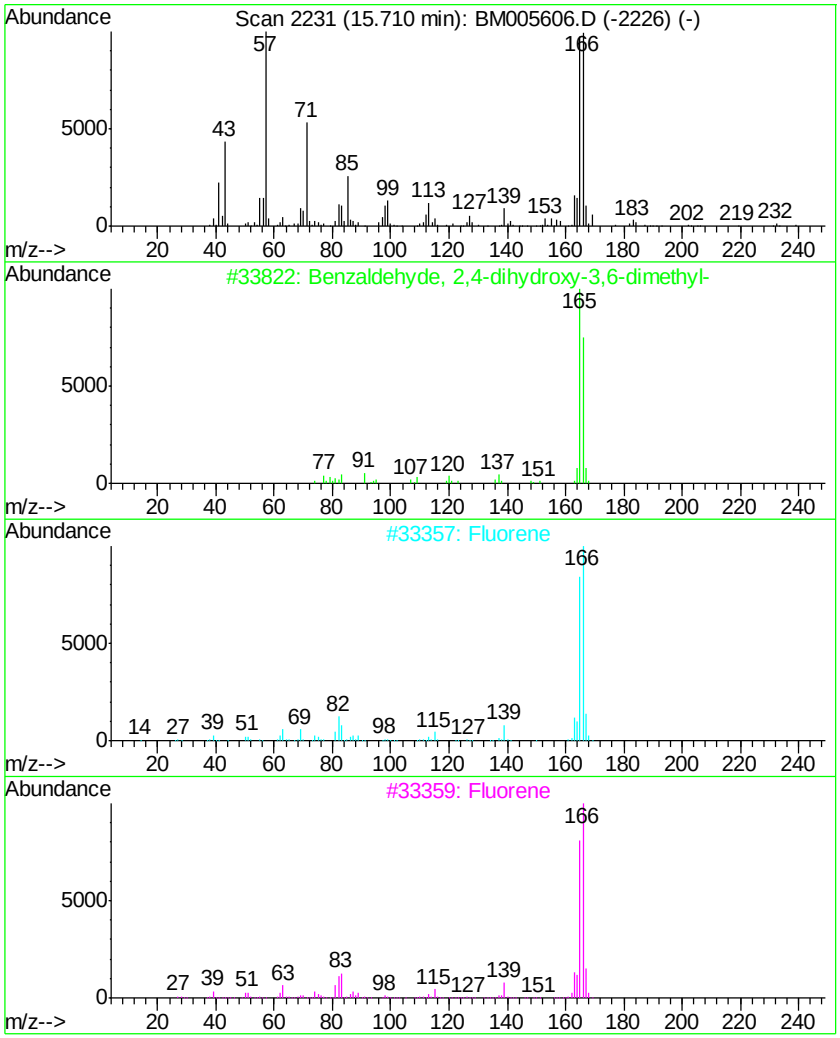
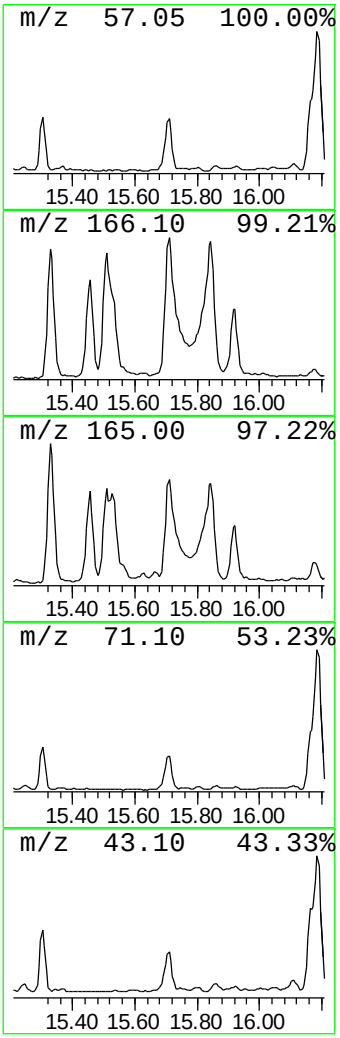
Peak Number 12 Benzaldehyde, 2,4-dihydroxy... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.71	6.22 ng/ul	577287	Acenaphthene-d10	14.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2,4-dihydroxy-3,6-...	166	C9H10O3	034883-14-2	53
2	Fluorene	166	C13H10	000086-73-7	52
3	Fluorene	166	C13H10	000086-73-7	52
4	1,3-Benzodioxole-5-carboxylic acid	166	C8H6O4	000094-53-1	47
5	2-Chlorofluorene	200	C13H9Cl	002523-44-6	27





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Quant Title : SVOA CALIBRATION

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

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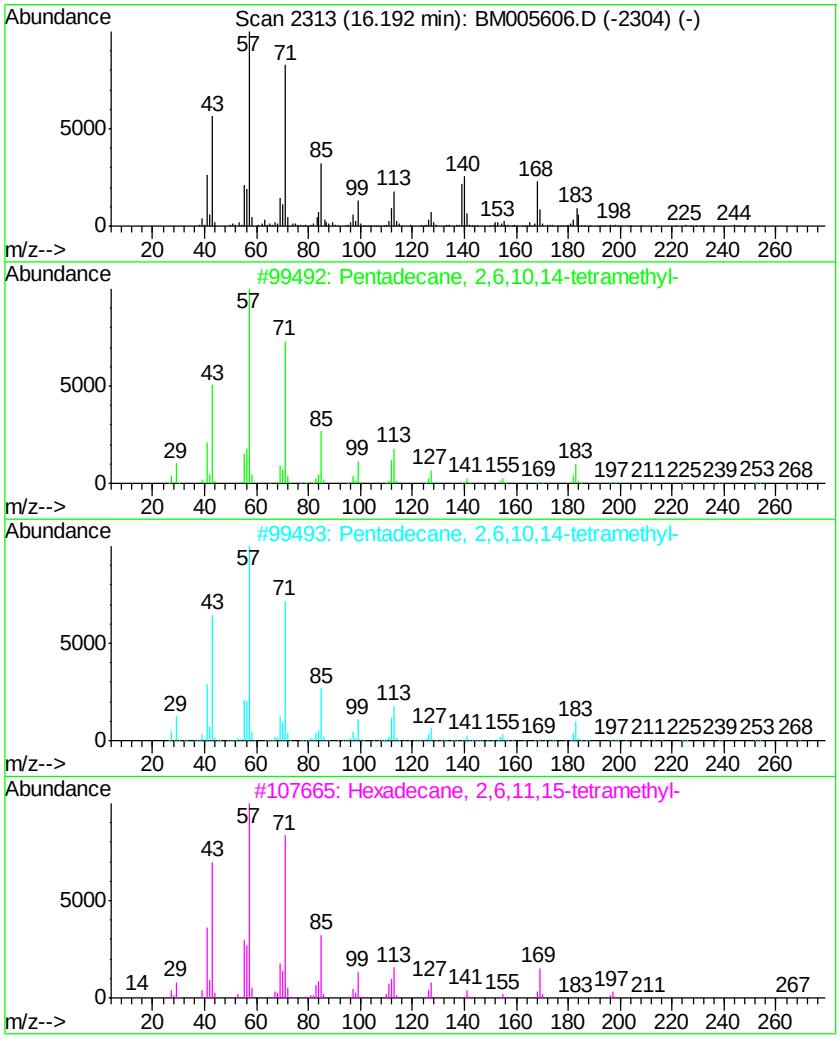
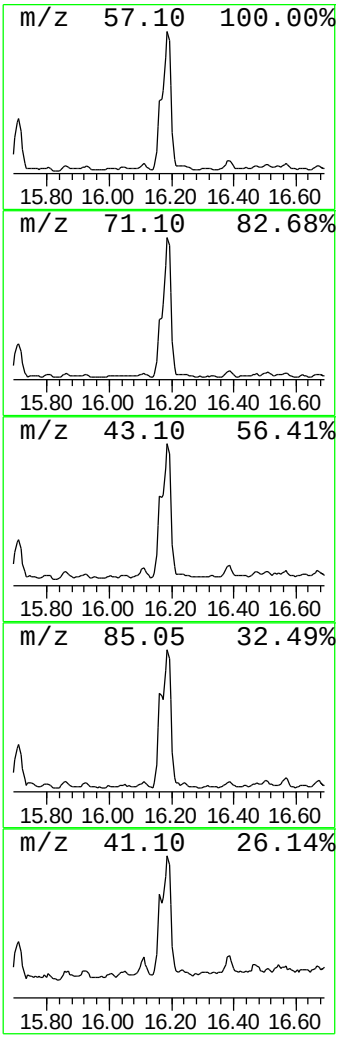
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.19	15.35 ng/ul	1721150	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	53
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	53
3	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	53
4	Heptadecane, 7-methyl-	254	C18H38	020959-33-5	52
5	5-Ethyldecane	170	C12H26	017302-36-2	49





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Quant Title : SVOA CALIBRATION

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

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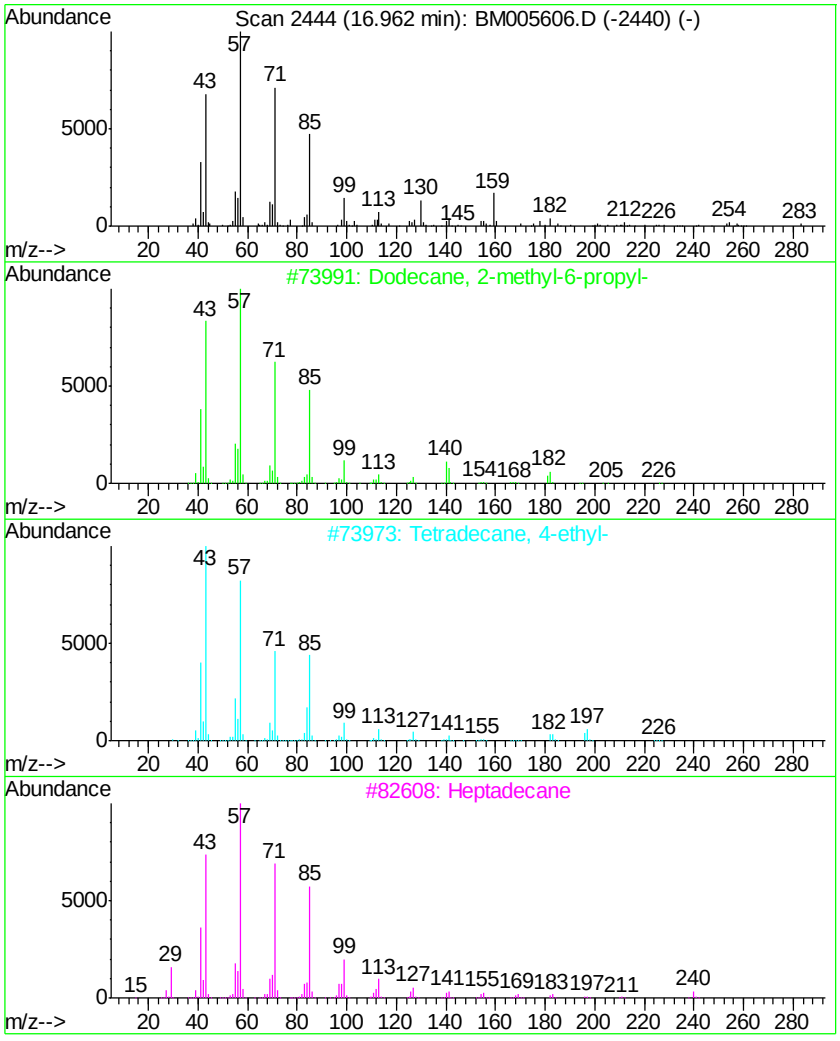
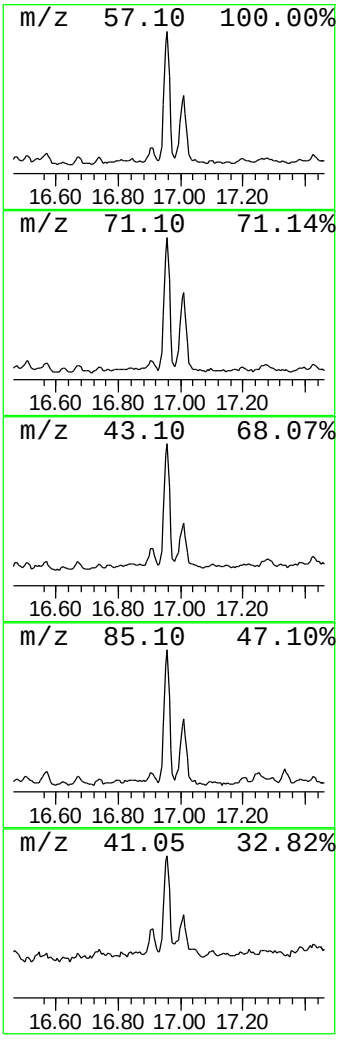
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	2.02 ng/ul	227028	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	87
2	Tetradecane, 4-ethyl-	226	C16H34	055045-14-2	86
3	Heptadecane	240	C17H36	000629-78-7	86
4	Undecane, 3-methyl-	170	C12H26	001002-43-3	80
5	Heneicosane	296	C21H44	000629-94-7	80





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ClientSampleId : JHGF4

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Quant Title : SVOA CALIBRATION

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

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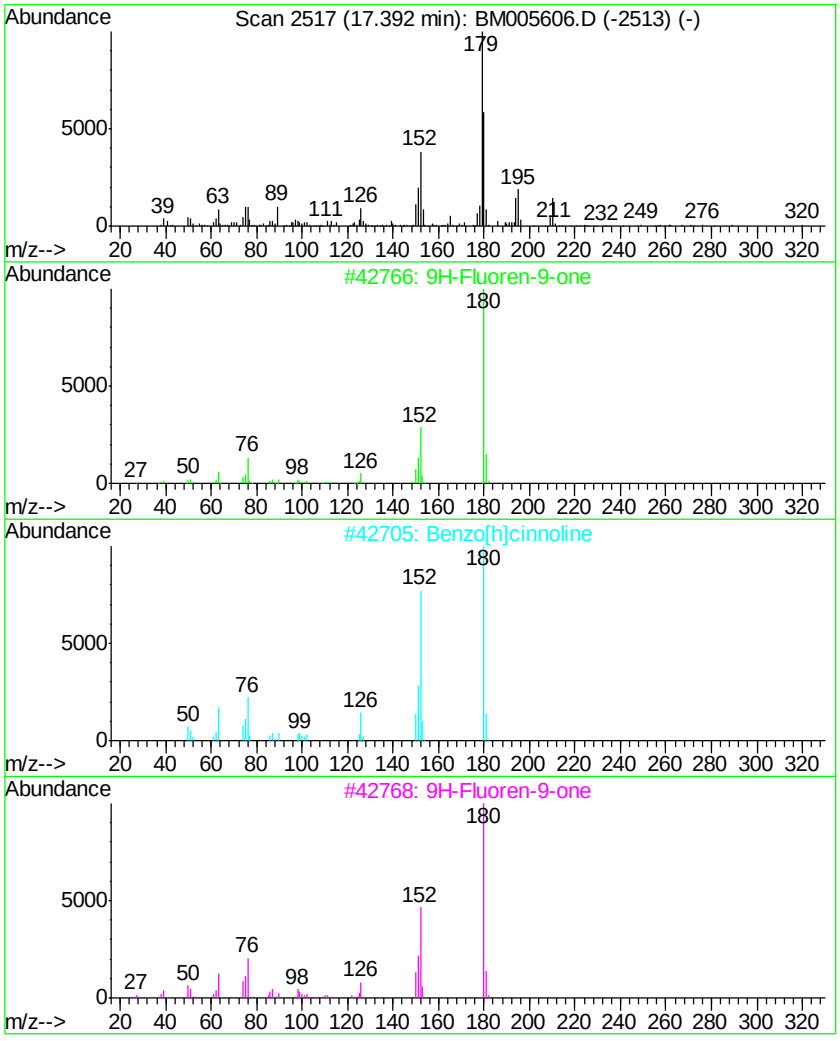
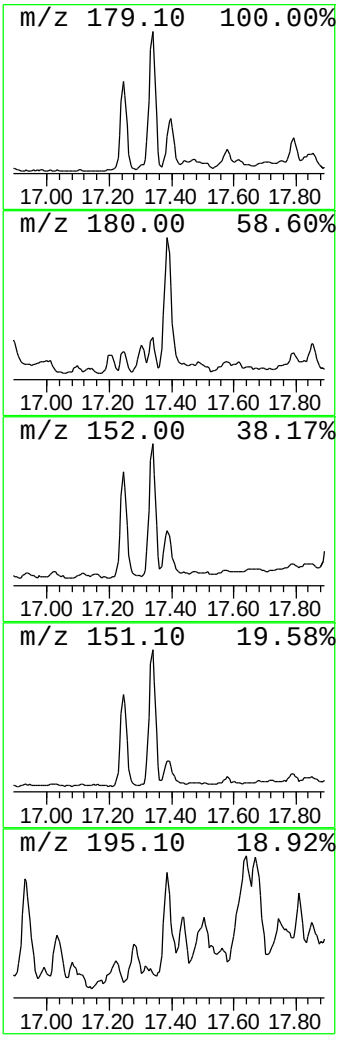
Peak Number 15 9H-Fluoren-9-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.39	4.59 ng/ul	514618	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
4	Phenanthridine	179	C13H9N	000229-87-8	55
5	Acridine	179	C13H9N	000260-94-6	49





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Quant Title : SVOA CALIBRATION

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

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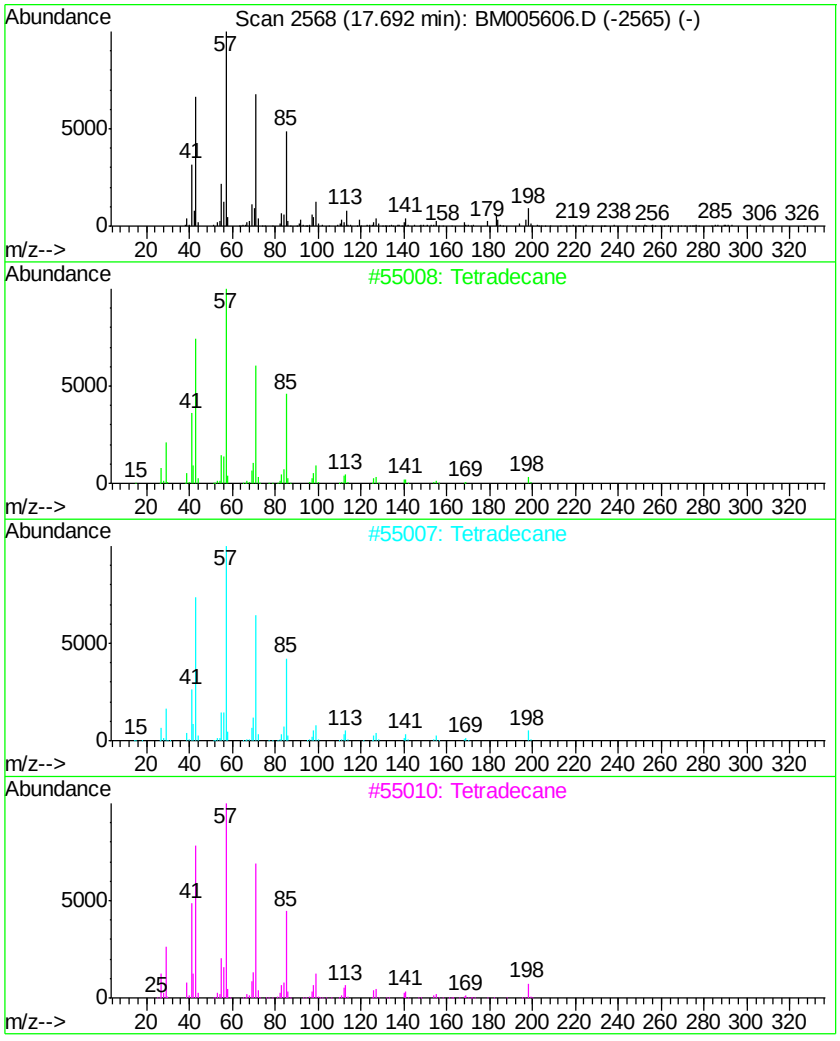
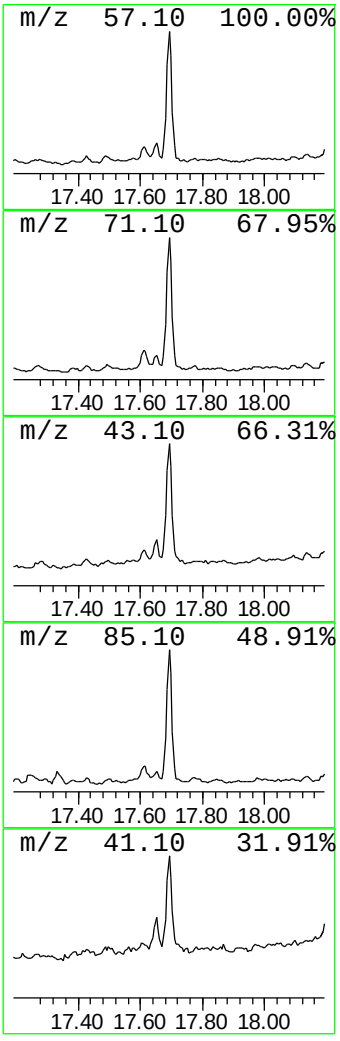
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.69	2.76 ng/ul	308969	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	93
2	Tetradecane	198	C14H30	000629-59-4	93
3	Tetradecane	198	C14H30	000629-59-4	89
4	Octacosane	394	C28H58	000630-02-4	83
5	Heneicosane	296	C21H44	000629-94-7	83





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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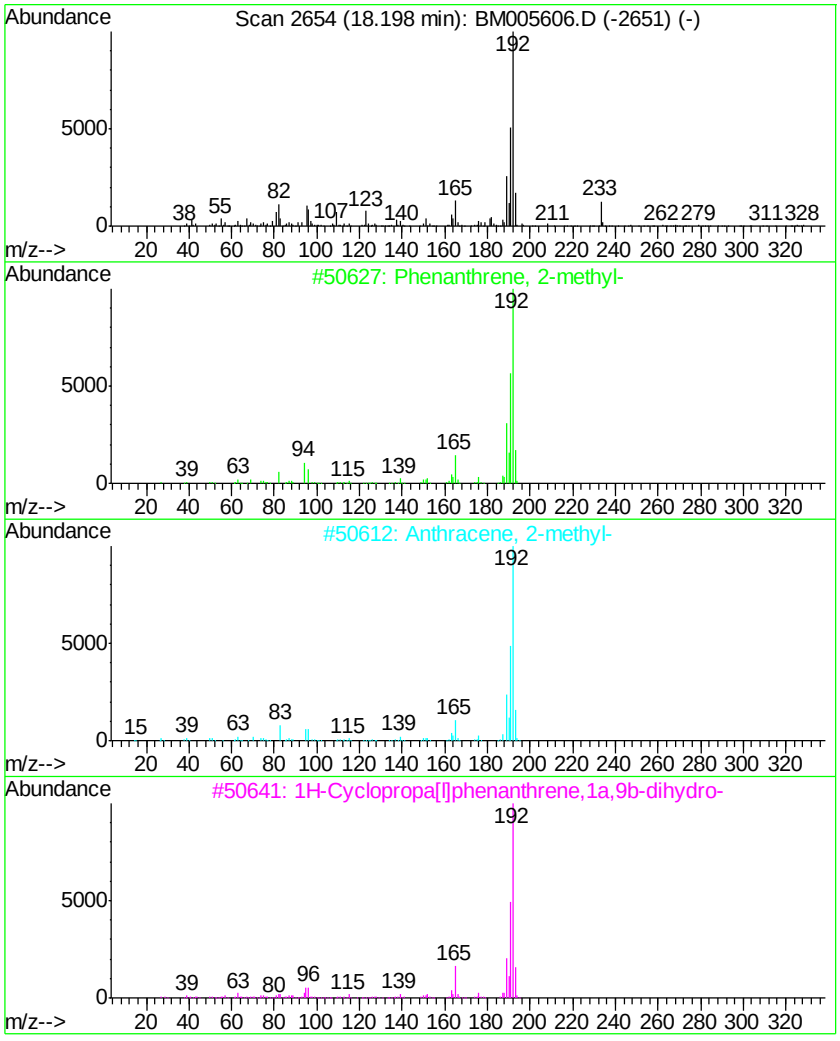
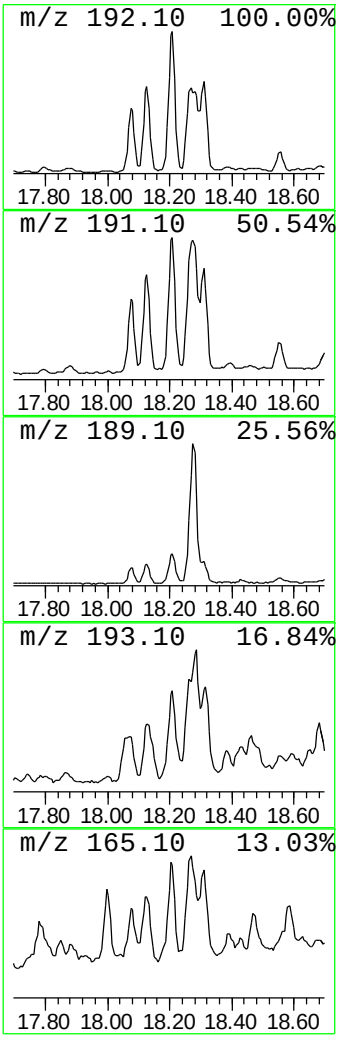
Peak Number 18 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.20	6.87 ng/ul	770861	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	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	95





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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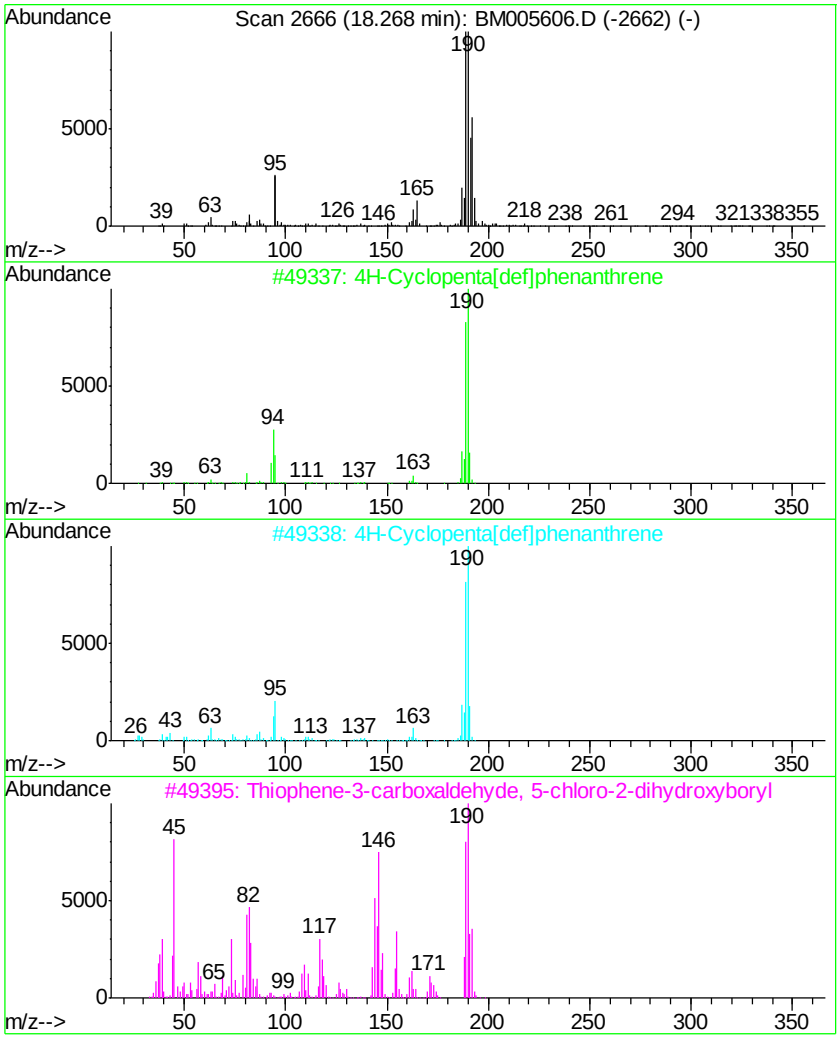
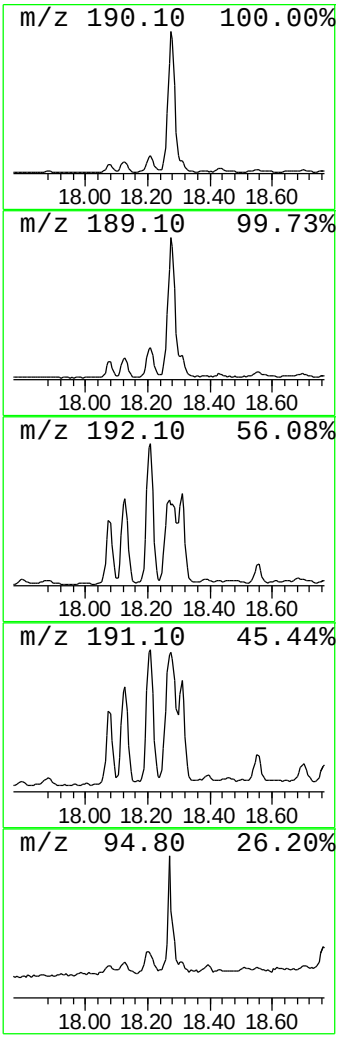
Peak Number 19 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.27	13.34 ng/ul	1495660	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	49
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47





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Quant Title : SVOA CALIBRATION

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

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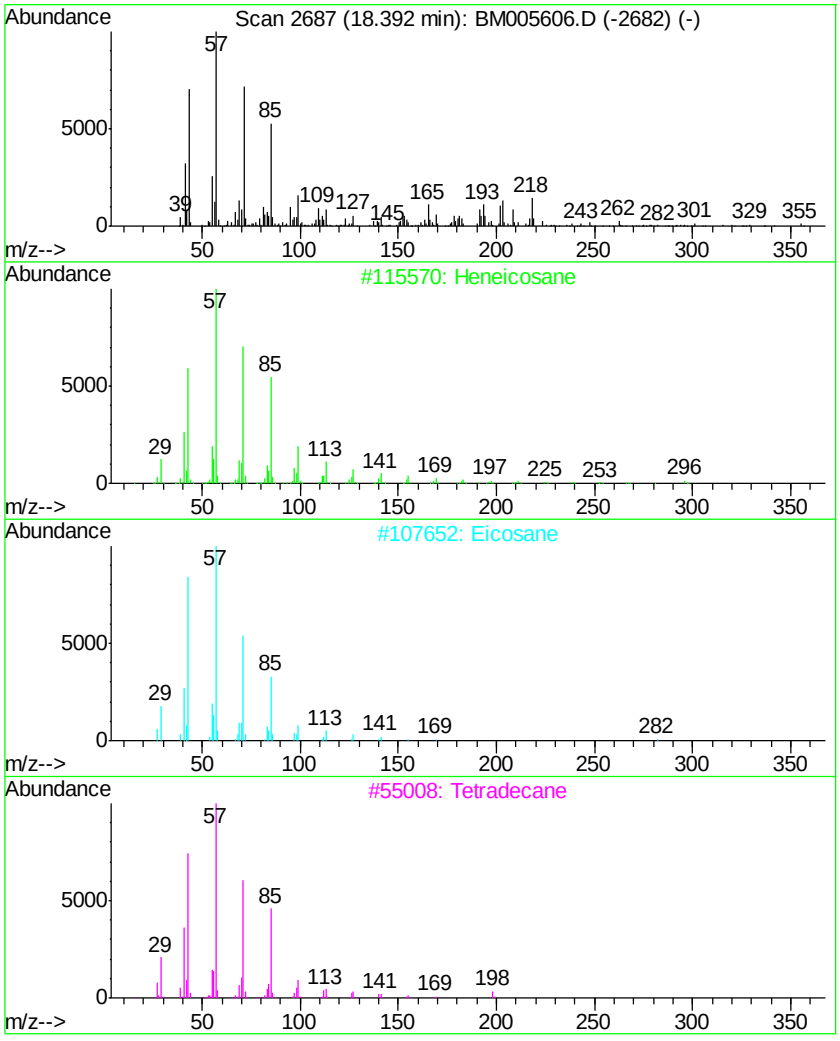
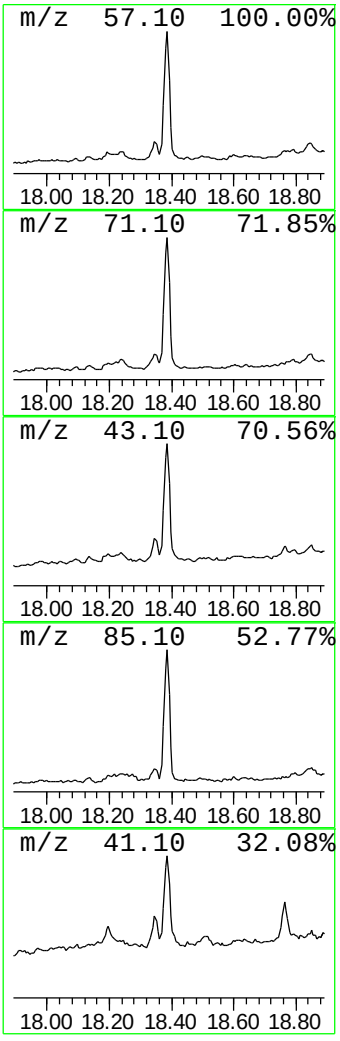
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.39	4.68 ng/ul	524605	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	93
2	Eicosane	282	C20H42	000112-95-8	92
3	Tetradecane	198	C14H30	000629-59-4	70
4	Octadecane	254	C18H38	000593-45-3	68
5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	68





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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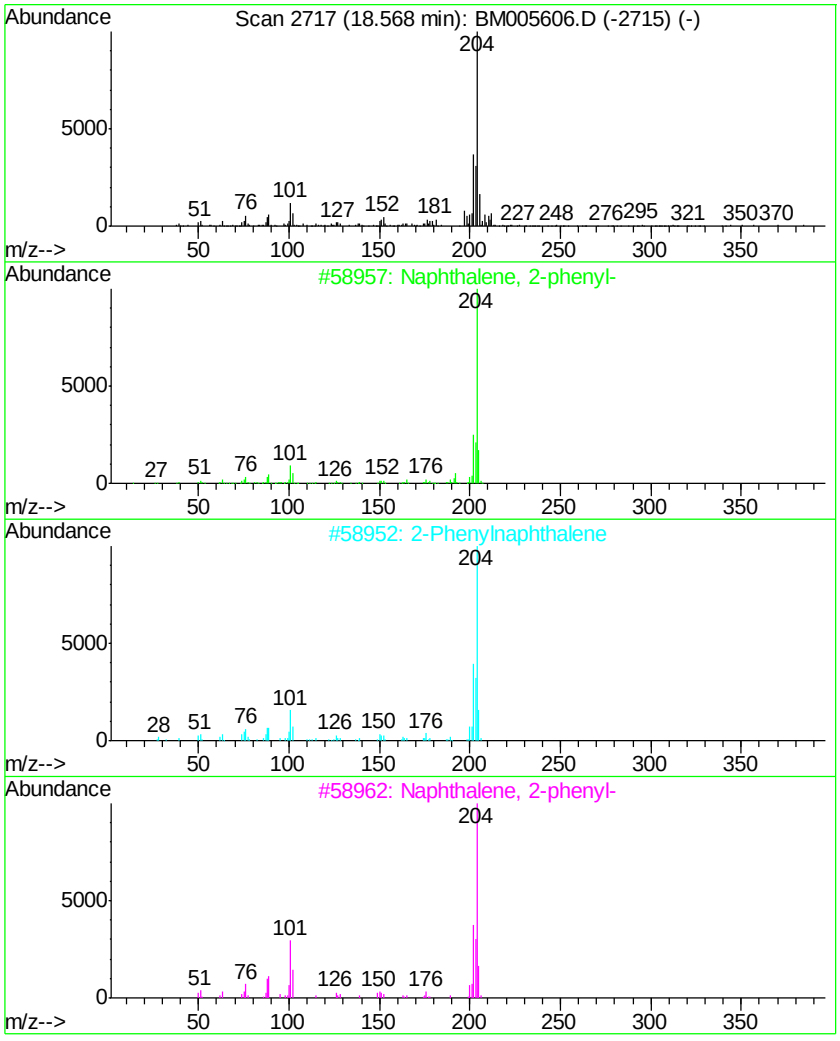
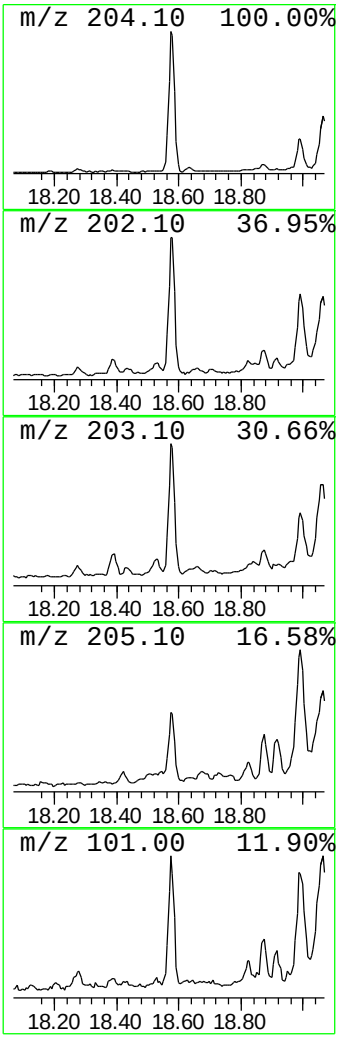
Peak Number 21 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	3.91 ng/ul	438578	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62





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Quant Title : SVOA CALIBRATION

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

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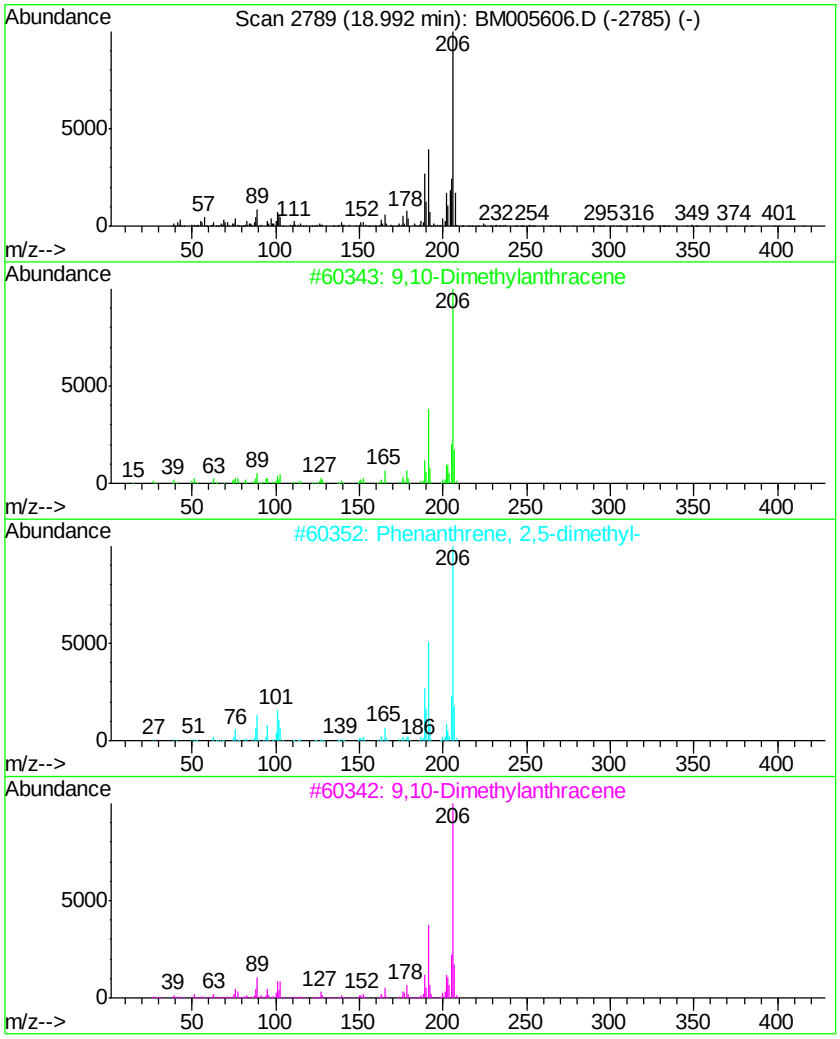
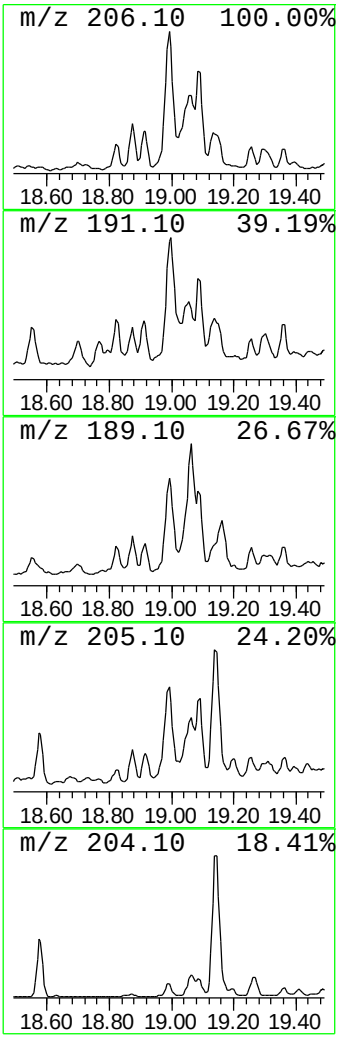
Peak Number 22 9,10-Dimethylanthracene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	6.76 ng/ul	758292	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87





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Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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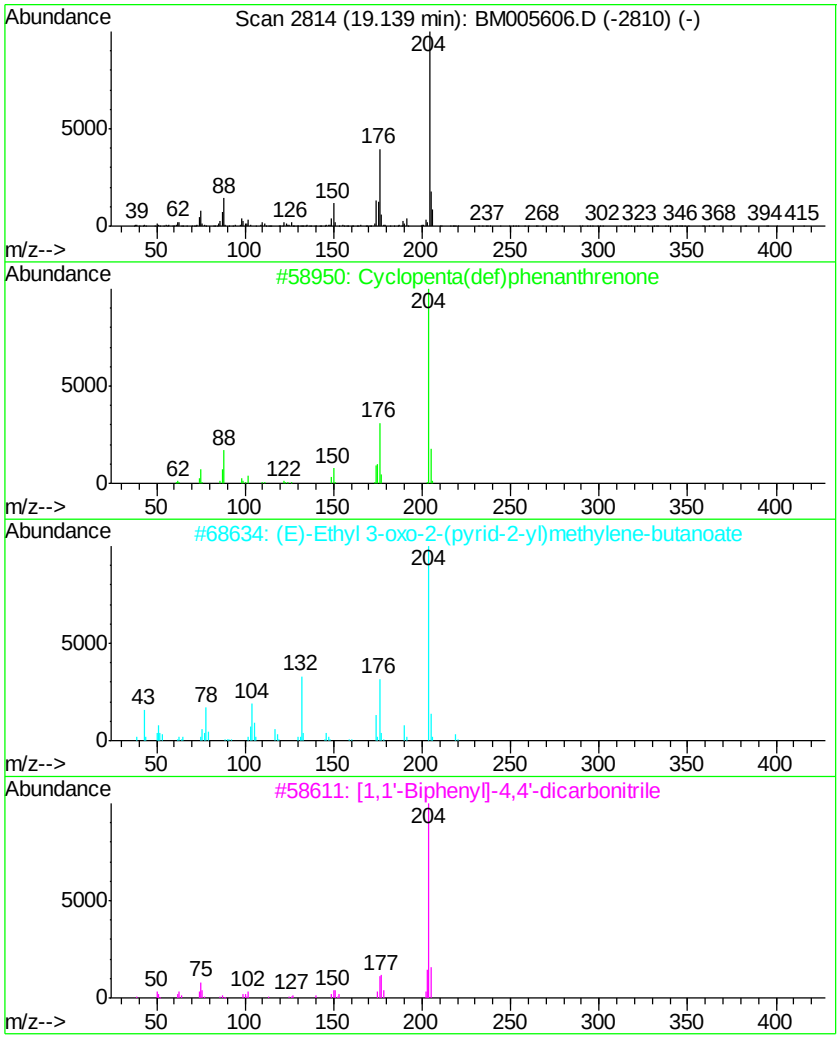
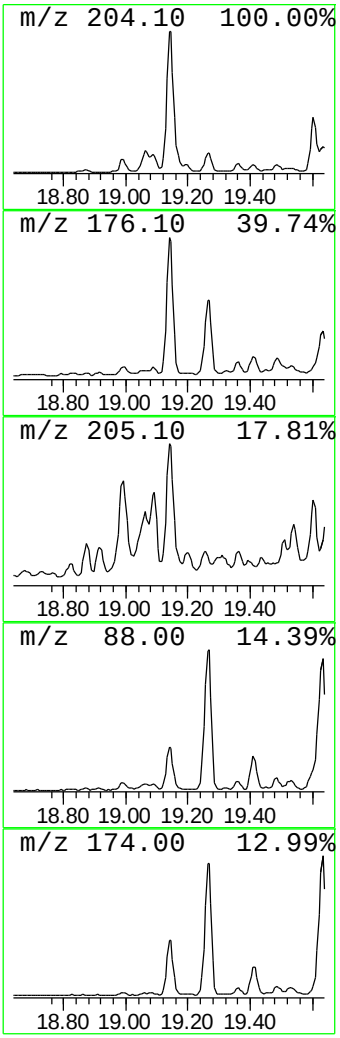
Peak Number 23 Cyclopenta(def)phenanthrenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.14	11.52 ng/ul	1292260	Phenanthrene-d10	17.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	50
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46
4	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	45
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43





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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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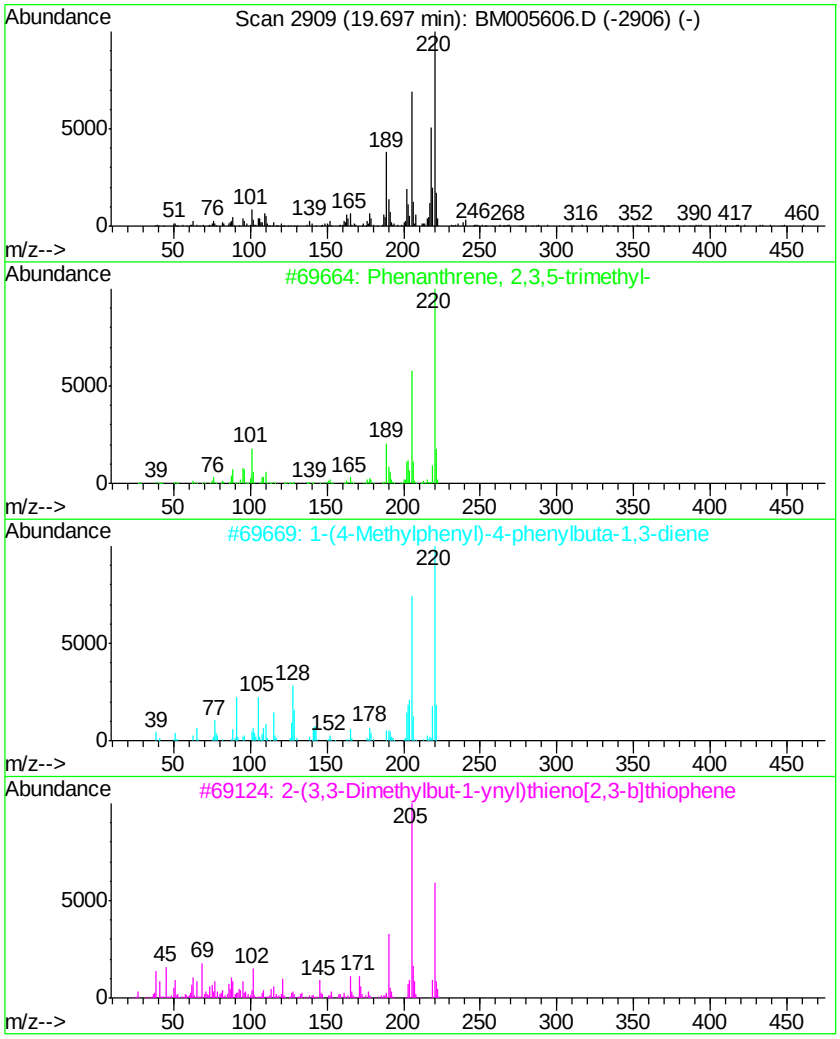
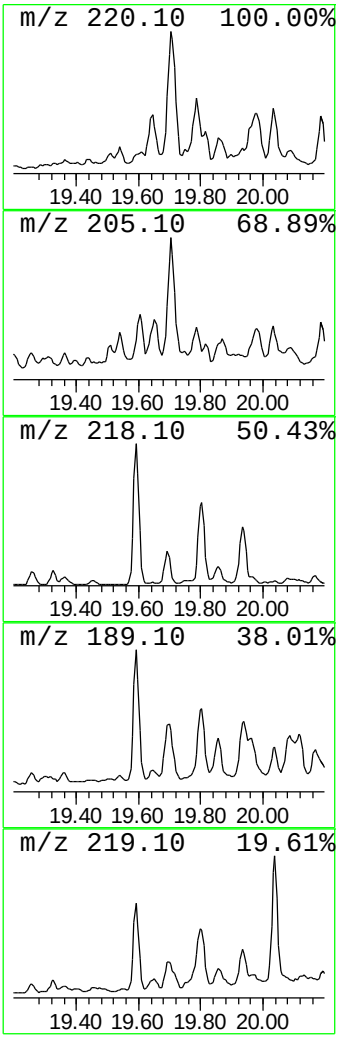
Peak Number 25 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.70	2.05 ng/ul	842290	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	80
2	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	76
3	2-(3,3-Dimethylbut-1-ynyl)thieno...	220	C12H12S2	1000250-48-5	68
4	Anthracene, 9-(1-methylethyl)-	220	C17H16	001498-80-2	68
5	Benzo[b]dihydropyran, 6-hydroxy-...	220	C14H20O2	050442-70-1	58





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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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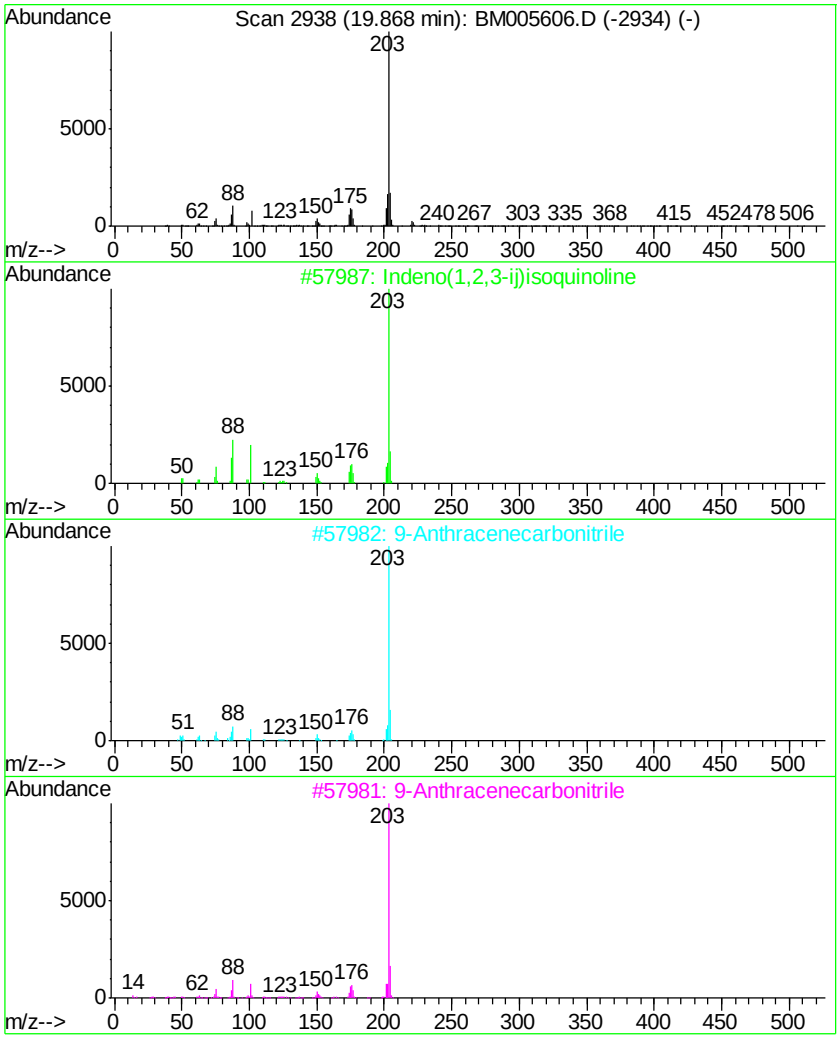
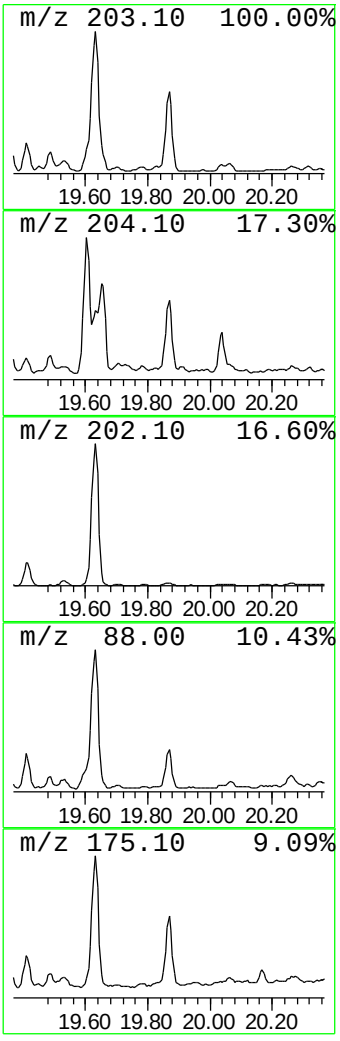
Peak Number 26 Indeno(1,2,3-ij)isoquinoline Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.87	2.69 ng/ul	1103550	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	97
2	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	97
3	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	96
4	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	95
5	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	95





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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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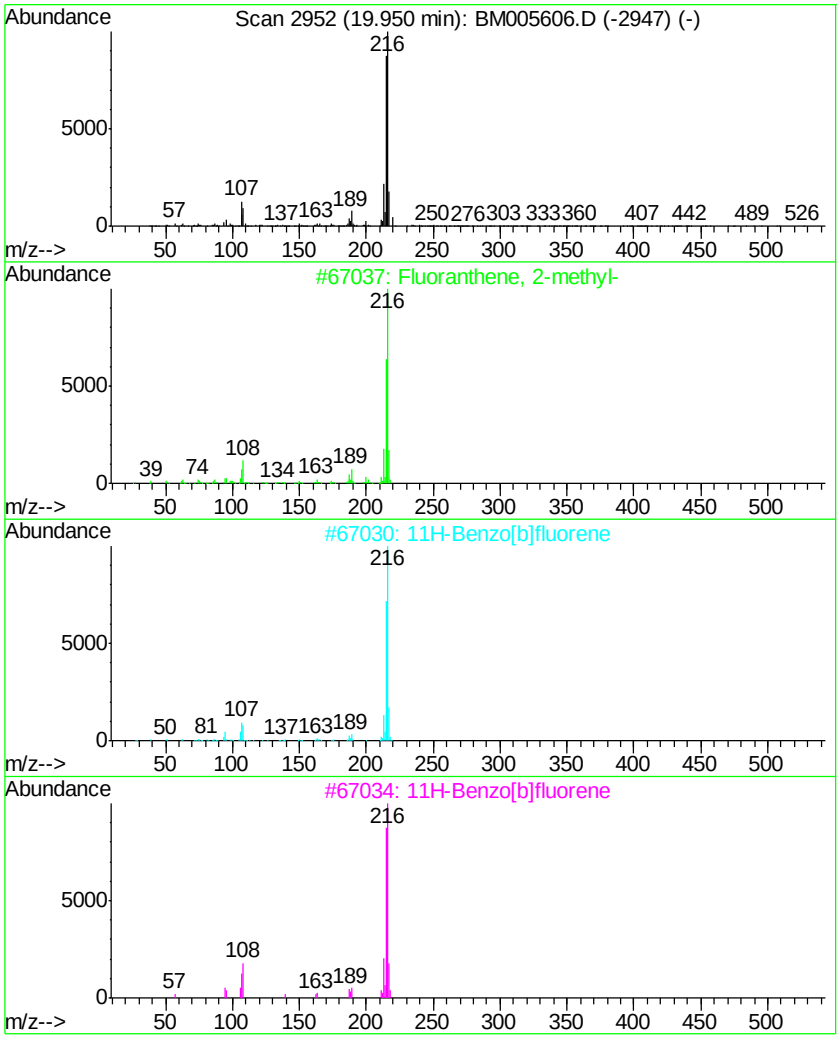
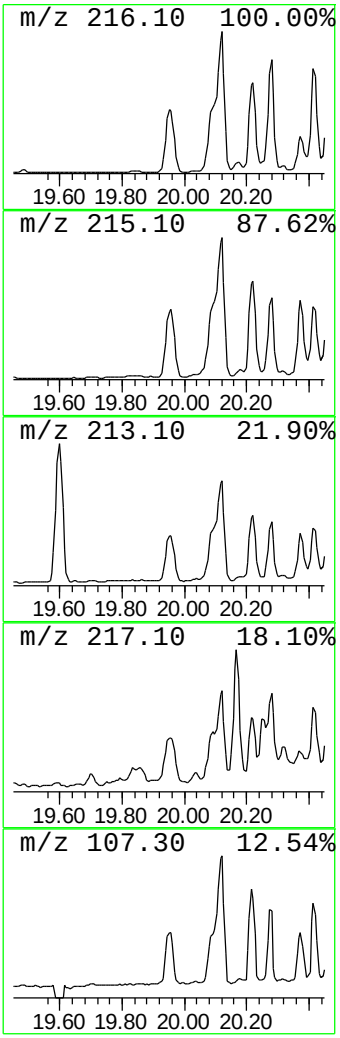
Peak Number 27 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.95	3.48 ng/ul	1428000	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86





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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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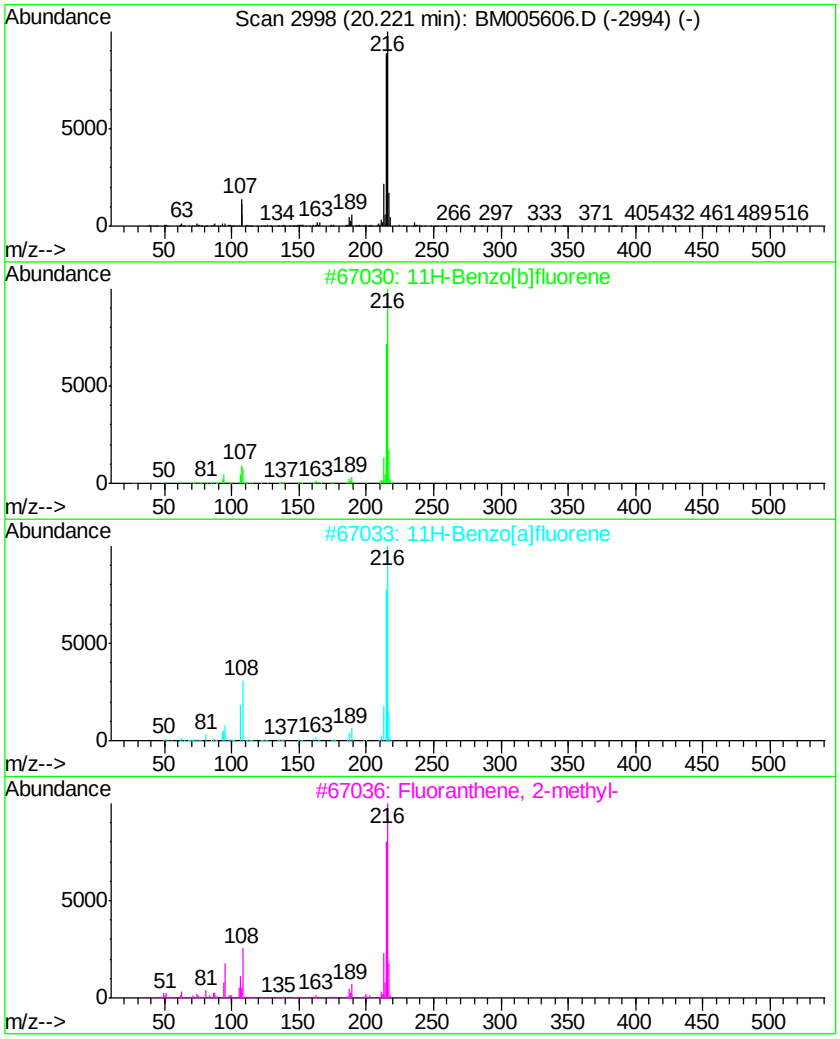
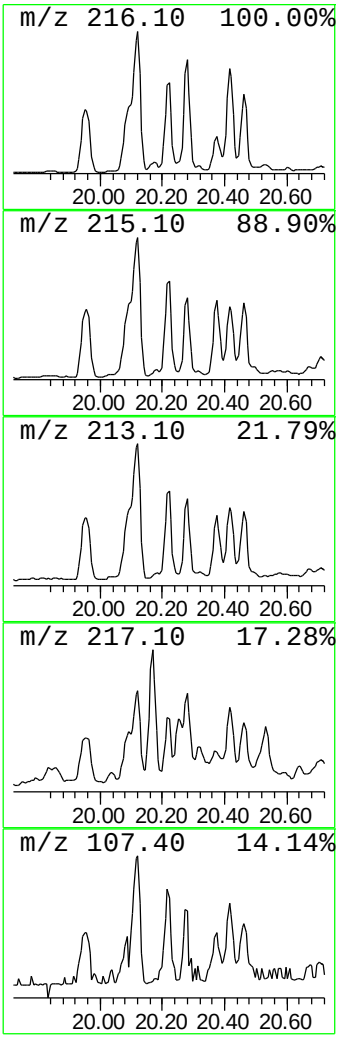
Peak Number 28 11H-Benzo[b]fluorene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.22	2.14 ng/ul	880918	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	70





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Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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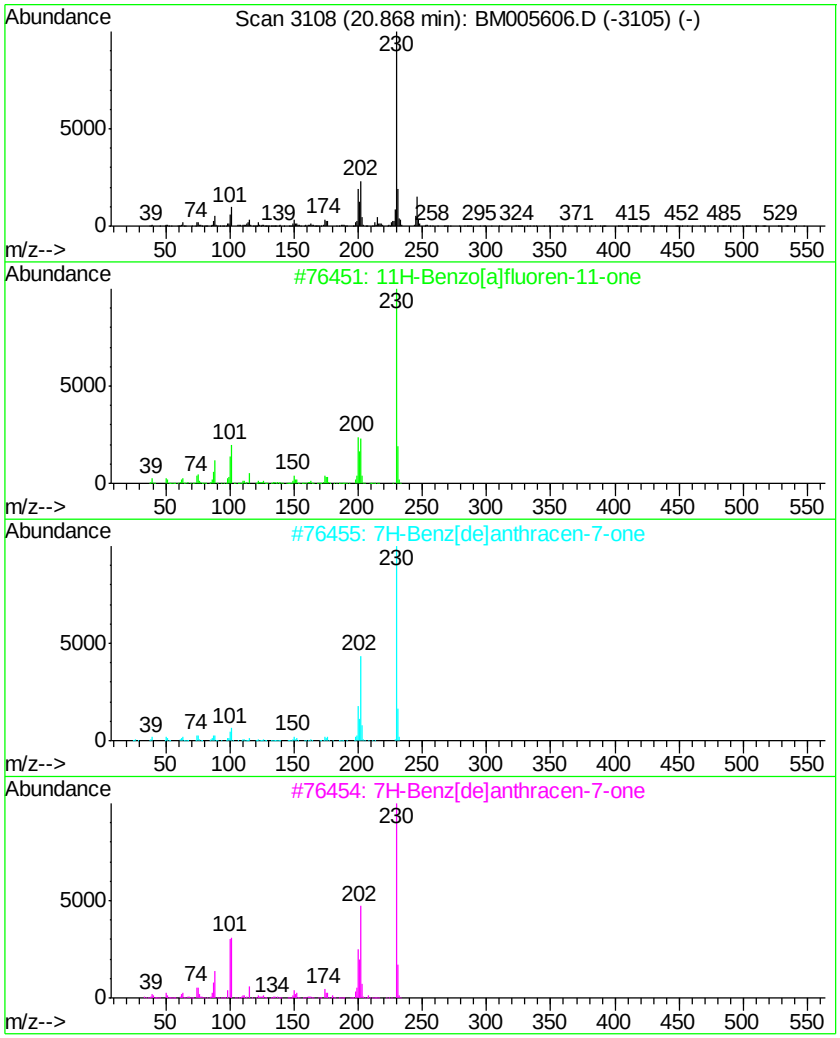
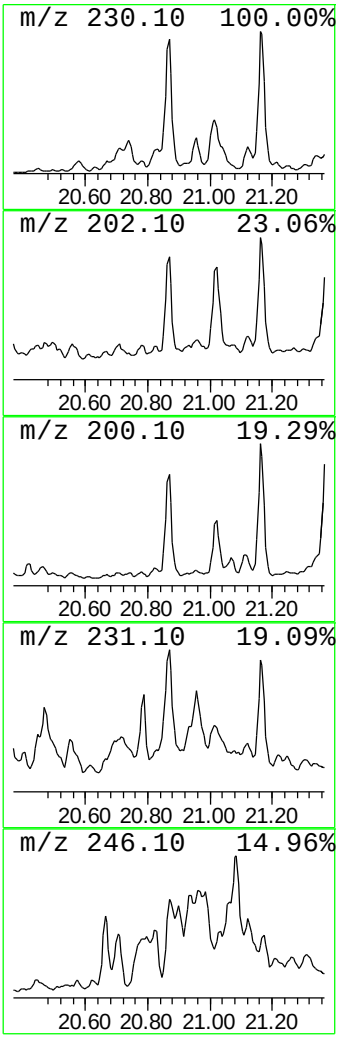
Peak Number 29 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	2.97 ng/ul	1217890	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81





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Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

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

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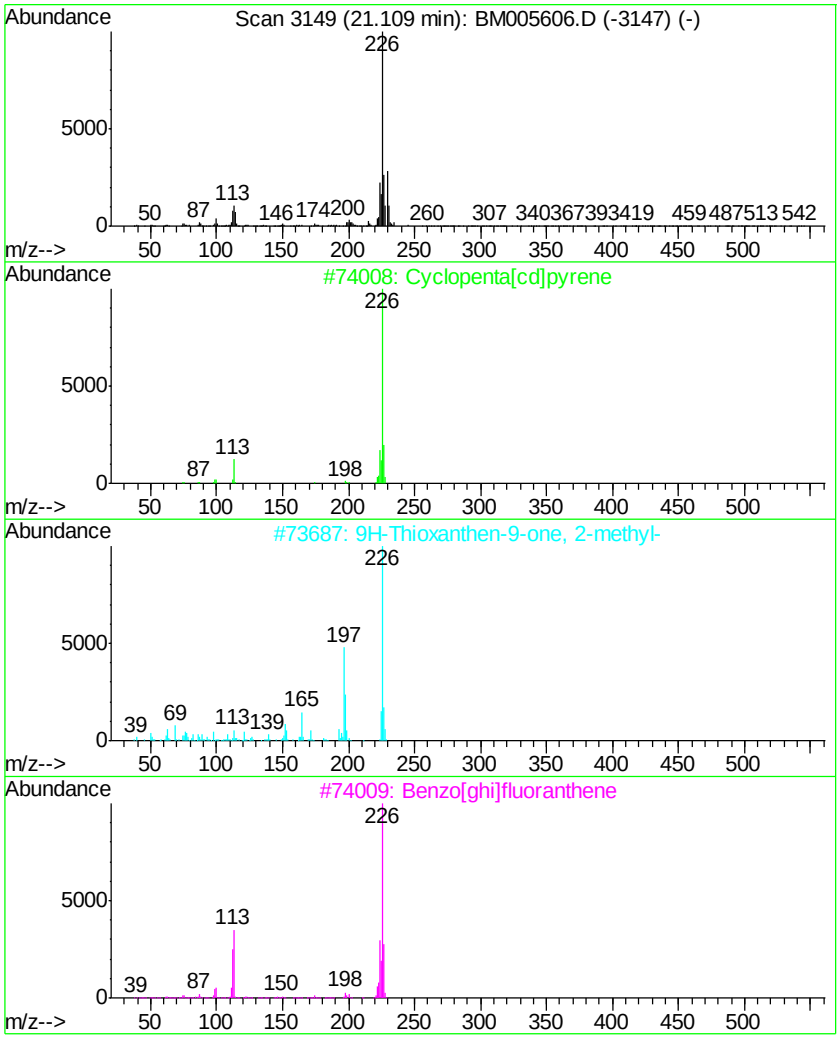
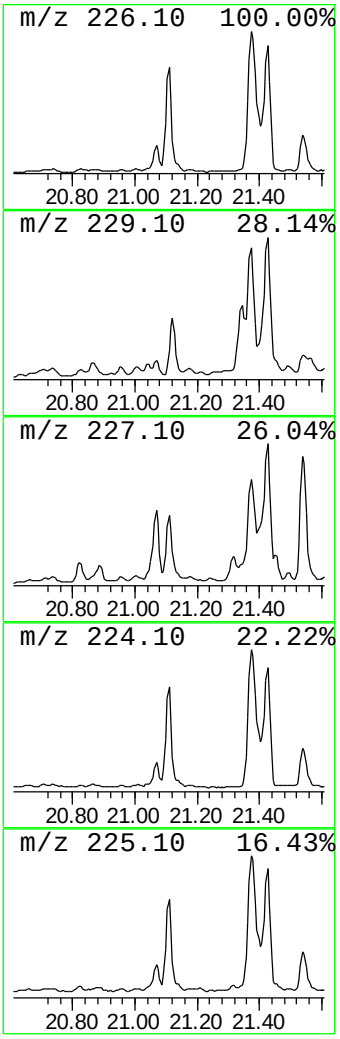
Peak Number 30 Cyclopenta[cd]pyrene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	2.94 ng/ul	1208260	Chrysene-d12	21.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	53
2	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	50
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	50
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
5	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	40





Tentatively Identified Compound (LSC) summary

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Data File : BM005606.D
Acq On : 23 May 2016 02:55
Operator : UM/SJ
Sample : H3086-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGF4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.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
Benzene, 1-etheny...	7.48	3.3	ng/ul	159079	1	7.82	964645	20.0
Indene	8.36	10.0	ng/ul	480349	1	7.82	964645	20.0
Indolizine	12.12	3.3	ng/ul	249882	2	10.62	1495440	20.0
unknown-01	14.25	3.6	ng/ul	333442	3	14.46	1854900	20.0
(DEL) Alkane: Str...	14.34	4.3	ng/ul	397380	3	14.46	1854900	20.0
1,1'-Biphenyl, 3-...	15.06	2.5	ng/ul	234535	3	14.46	1854900	20.0
Azulene, 4,6,8-tr...	15.24	3.0	ng/ul	282345	3	14.46	1854900	20.0
(DEL) Alkane: Str...	15.30	2.8	ng/ul	261683	3	14.46	1854900	20.0
1H-Phenalene	15.33	2.3	ng/ul	216708	3	14.46	1854900	20.0
Benzaldehyde, 2,4...	15.71	6.2	ng/ul	577287	3	14.46	1854900	20.0
(DEL) Alkane: Str...	16.19	15.4	ng/ul	1721150	4	17.20	2242730	20.0
(DEL) Alkane: Str...	16.96	2.0	ng/ul	227028	4	17.20	2242730	20.0
9H-Fluoren-9-one	17.39	4.6	ng/ul	514618	4	17.20	2242730	20.0
(DEL) Alkane: Str...	17.69	2.8	ng/ul	308969	4	17.20	2242730	20.0
Phenanthrene, 2-m...	18.20	6.9	ng/ul	770861	4	17.20	2242730	20.0
4H-Cyclopenta[def...	18.27	13.3	ng/ul	1495660	4	17.20	2242730	20.0
(DEL) Alkane: Str...	18.39	4.7	ng/ul	524605	4	17.20	2242730	20.0
Naphthalene, 2-ph...	18.57	3.9	ng/ul	438578	4	17.20	2242730	20.0
9,10-Dimethylanth...	18.99	6.8	ng/ul	758292	4	17.20	2242730	20.0
Cyclopenta(def)ph...	19.14	11.5	ng/ul	1292260	4	17.20	2242730	20.0
Phenanthrene, 2,3...	19.70	2.0	ng/ul	842290	5	21.39	8213890	20.0
Indeno(1,2,3-ij)i...	19.87	2.7	ng/ul	1103550	5	21.39	8213890	20.0
Fluoranthene, 2-m...	19.95	3.5	ng/ul	1428000	5	21.39	8213890	20.0
11H-Benzo[b]fluorene	20.22	2.1	ng/ul	880918	5	21.39	8213890	20.0
11H-Benzo[a]fluor...	20.87	3.0	ng/ul	1217890	5	21.39	8213890	20.0
Cyclopenta[cd]pyrene	21.11	2.9	ng/ul	1208260	5	21.39	8213890	20.0