LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

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-BM121915.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	5.216	357	362	371	rBB	50648	74210	2.78%	0.272%
2	5.346	379	384	395	rBB	66030	155060	5.81%	0.569%
3	5.716	439	447	454	rBB	63275	102207	3.83%	0.375%
4	6.787	624	629	635	rBV	44298	62718	2.35%	0.230%
5	6.869	635	643	649	rVV2	73398	144881	5.43%	0.532%
6	7.034	665	671	677	rBV	62434	92930	3.48%	0.341%
7	7.228	699	704	711	rBB	76061	118631	4.44%	0.436%
8	7.346	716	724	732	rBB	105785	173955	6.52%	0.639%
9	7.698	778	784	790	rBV	80871	125757	4.71%	0.462%
10	7.810	797	803	810	rBV	35174	53705	2.01%	0.197%
11	8.069	841	847	853	rBB	103020	157379	5.90%	0.578%
12	8.234	869	875	882	rVB	182677	292403	10.95%	1.074%
13	8.404	899	904	912	rBB	106095	165654	6.21%	0.608%
14	8.857	975	981	988	rVV	77704	129295	4.84%	0.475%
15	9.575	1098	1103	1109	rVB	71988	110889	4.15%	0.407%
16	9.916	1151	1161	1167	rBV3	71198	187033	7.01%	0.687%
17	9.992	1167	1174	1178	rBV	58936	123837	4.64%	0.455%
18	10.116	1189	1195	1204	rVB	113417	184989	6.93%	0.679%
19	10.487	1248	1258	1262	rBV	135913	278175	10.42%	1.021%
20	10.545	1262	1268	1275	rVV	1558064	2669493	100.00%	9.801%
21	10.628	1275	1282	1293	rVV2	84221	179647	6.73%	0.660%
22	12.157	1534	1542	1550	rBB	903279	1455948	54.54%	5.346%
23	12.381	1568	1580	1587	rBB	592630	946874	35.47%	3.476%
24	13.175	1707	1715	1723	rVB	103636	161408	6.05%	0.593%
25	13.375	1743	1749	1760	rVB	121770	231627	8.68%	0.850%
26	13.510	1765	1772	1773	rBV	143247	206947	7.75%	0.760%
27	13.669	1791	1799	1804	rBV	271394	466336	17.47%	1.712%
28	13.722	1804	1808	1811	rBV	154451	213315	7.99%	0.783%
29	13.757	1811	1814	1819	rVB	238450	322515	12.08%	1.184%
30	13.804	1819	1822	1831	rVB	177079	266282	9.98%	0.978%
31	13.904	1831	1839	1843	rBV	131999	208375	7.81%	0.765%
32	13.939	1843	1845	1853	rVB2	39779	51234	1.92%	0.188%
33	14.045	1856	1863	1866	rBV	286929	468991	17.57%	1.722%
34	14.351	1904	1915	1921	rBV3	268396	498913	18.69%	1.832%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

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-BM121915.M
Title : SVOA CALIBRATION

35	14.416	1921	1926	1934	rVB2	113444	208450	7.81%	0.765%
36	14.557	1943	1950	1960	rBV	163594	279313	10.46%	1.026%
37	14.751	1977	1983	1990	rVB	85674	147677	5.53%	0.542%
38	14.827	1990	1996	2001	rBV2	71191	105768	3.96%	0.388%
39	14.957	2011	2018	2025	rBV3	71546	175935	6.59%	0.646%
40	15.022	2025	2029	2033	rVV	48621	61605	2.31%	0.226%
41	15.145	2039	2050	2053	rBV3	48747	114745	4.30%	0.421%
42	15.222	2058	2063	2069	rVB2	37427	66762	2.50%	0.245%
43	15.345	2079	2084	2089	rVV	409314	585042	21.92%	2.148%
44	15.404	2089	2094	2101	rVV	165281	265366	9.94%	0.974%
45	15.474	2101	2106	2112	rVV2	105204	164451	6.16%	0.604%
46	15.610	2125	2129	2134	rVB3	48385	73726	2.76%	0.271%
47	15.692	2138	2143	2150	rBV3	27297	55934	2.10%	0.205%
48	15.816	2159	2164	2167	rBV	51526	76022	2.85%	0.279%
49	16.080	2203	2209	2215	rVV4	55877	126693	4.75%	0.465%
50	16.404	2257	2264	2269	rBV4	63352	148452	5.56%	0.545%
51	16.457	2269	2273	2279	rVV	58962	90431	3.39%	0.332%
52	16.557	2286	2290	2295	rVB2	37056	58584	2.19%	0.215%
53	16.916	2346	2351	2360	rVB2	101058	160521	6.01%	0.589%
54	17.098	2377	2382	2386	rBV2	359713	560475	21.00%	2.058%
55	17.145	2386	2390	2394	rVV	882975	1207226	45.22%	4.432%
56	17.198	2394	2399	2403	rVV	479879	698383	26.16%	2.564%
57	17.233	2403	2405	2410	rVB	182580	190738	7.15%	0.700%
58	17.292	2410	2415	2420	rBV2	39678	73734	2.76%	0.271%
59	17.680	2477	2481	2487	rVB2	58759	81655	3.06%	0.300%
60	17.821	2500	2505	2512	rVB2	36659	70625	2.65%	0.259%
61	17.974	2526	2531	2535	rVV	220312	330700	12.39%	1.214%
62	18.021	2535	2539	2545	rVV	249605	351325	13.16%	1.290%
63	18.104	2548	2553	2558	rVV	98049	141196	5.29%	0.518%
64	18.168	2558	2564	2568	rVV2	246045	486294	18.22%	1.785%
65	18.210	2568	2571	2580	rVB	163648	222499	8.33%	0.817%
66	18.480	2612	2617	2621	rVB	90506	118885	4.45%	0.436%
67	18.727	2656	2659	2663	rVV3	37879	49297	1.85%	0.181%
68	18.815	2671	2674	2678	rVB2	36273	49652	1.86%	0.182%
69	18.898	2678	2688	2693	rBV	167007	318031	11.91%	1.168%
70	18.962	2693	2699	2702	rBV3	60350	114702	4.30%	0.421%
71	18.992	2702	2704	2708	rVB	70679	73372	2.75%	0.269%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

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-BM121915.M
Title : SVOA CALIBRATION

72	19.039	2708	2712	2714	rBV	44033	65354	2.45%	0.240%
73	19.162	2728	2733	2740	rBV	366244	498120	18.66%	1.829%
74	19.315	2755	2759	2763	rBV	113722	144074	5.40%	0.529%
75	19.433	2777	2779	2785	rVB2	42376	54065	2.03%	0.199%
76	19.504	2785	2791	2793	rBV	635426	905339	33.91%	3.324%
77	19.533	2793	2796	2804	rVB	532816	733615	27.48%	2.693%
78	19.609	2805	2809	2814	rVB2	40928	58963	2.21%	0.216%
79	19.857	2846	2851	2861	rBV3	62334	141877	5.31%	0.521%
80	19.998	2869	2875	2876	rBV2	64251	100608	3.77%	0.369%
81	20.027	2877	2880	2888	rVB2	141203	191215	7.16%	0.702%
82	20.127	2893	2897	2903	rVV	102705	138558	5.19%	0.509%
83	20.186	2903	2907	2911	rVB	93431	110806	4.15%	0.407%
84	20.286	2919	2924	2928	rBV2	78084	122202	4.58%	0.449%
85	20.327	2928	2931	2935	rVV	83270	114573	4.29%	0.421%
86	20.374	2935	2939	2944	rVB	94278	135123	5.06%	0.496%
87	20.627	2978	2982	2984	rBV2	33990	47242	1.77%	0.173%
88	20.945	3033	3036	3039	rBV	37032	47448	1.78%	0.174%
89	20.986	3040	3043	3044	rVV	51213	59000	2.21%	0.217%
90	21.003	3044	3046	3053	rVB4	107819	150811	5.65%	0.554%
91	21.298	3089	3096	3100	rBV3	762062	1297349	48.60%	4.763%
92	21.339	3100	3103	3109	rVB	224562	297872	11.16%	1.094%
93	21.850	3187	3190	3195	rVV2	97978	159893	5.99%	0.587%
94	21.903	3196	3199	3203	rVB	56553	71517	2.68%	0.263%
95	22.874	3358	3364	3369	rBV2	84524	221712	8.31%	0.814%
96	23.045	3388	3393	3400	rVB	48317	85680	3.21%	0.315%
97	23.356	3440	3446	3449	rBV	76430	150814	5.65%	0.554%
98	23.409	3449	3455	3459	rBV	550350	985549	36.92%	3.618%
99	23.550	3472	3479	3485	rBV	447362	840229	31.48%	3.085%
100	25.803	3857	3862	3873	rVB2	44556	121064	4.54%	0.444%

Sum of corrected areas: 27236551

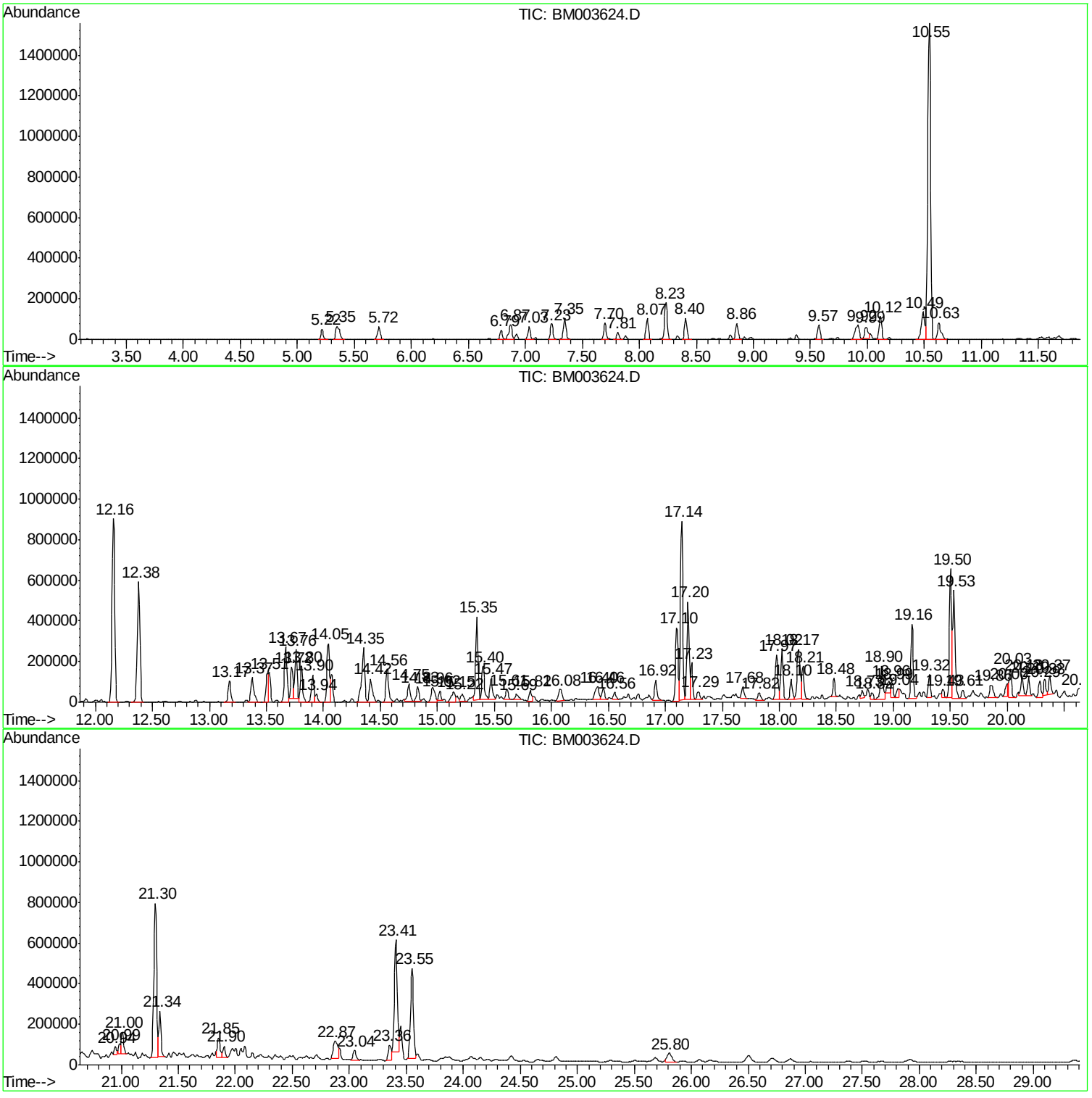
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

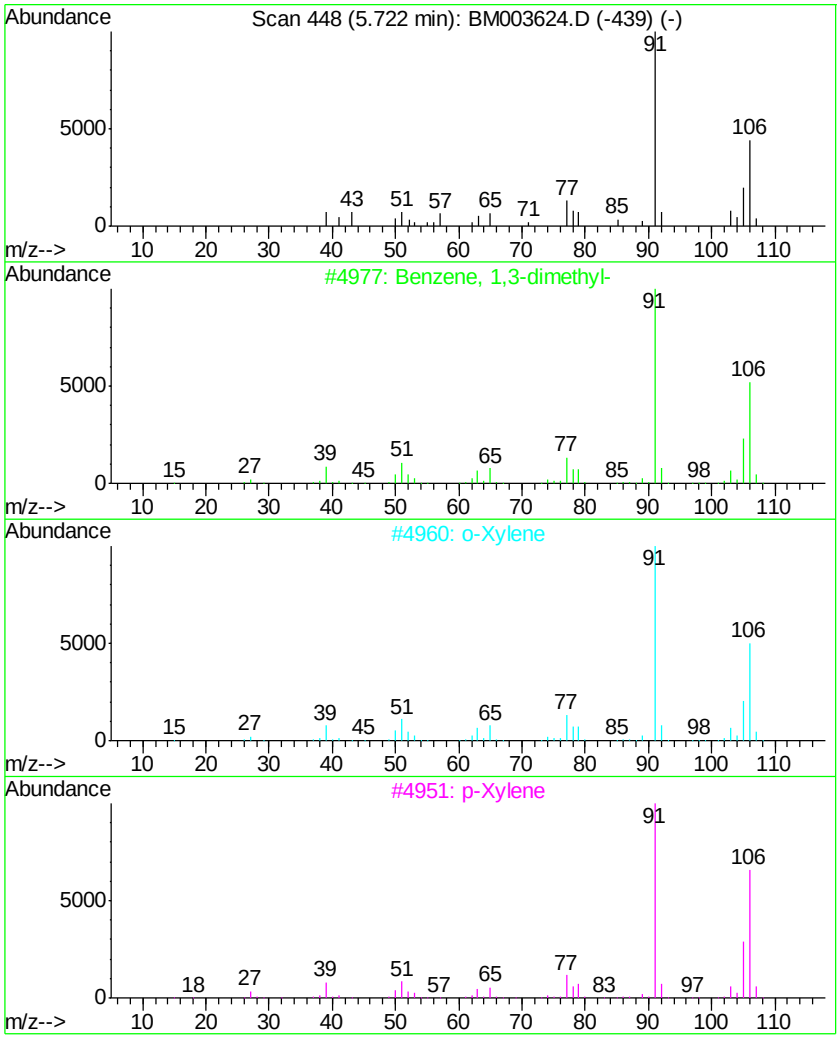
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

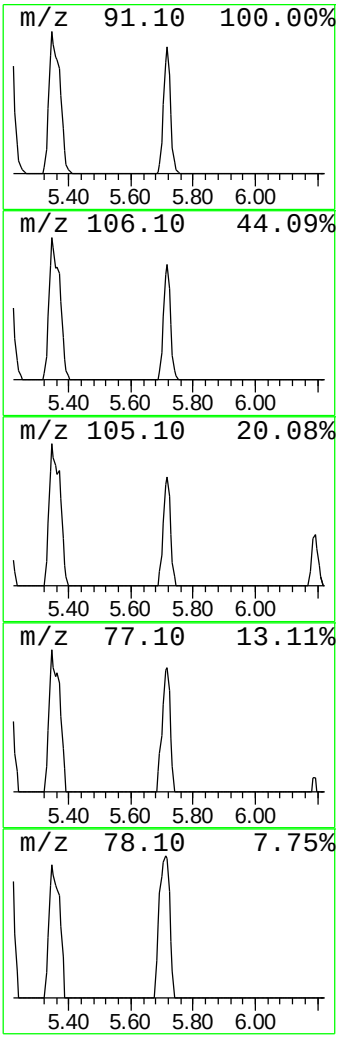
****

Peak Number 3 Benzene, 1,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.72	16.25 ng/ul	102207	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	94
2	o-Xylene	106	C8H10	000095-47-6	94
3	p-Xylene	106	C8H10	000106-42-3	94
4	p-Xylene	106	C8H10	000106-42-3	91
5	o-Xylene	106	C8H10	000095-47-6	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

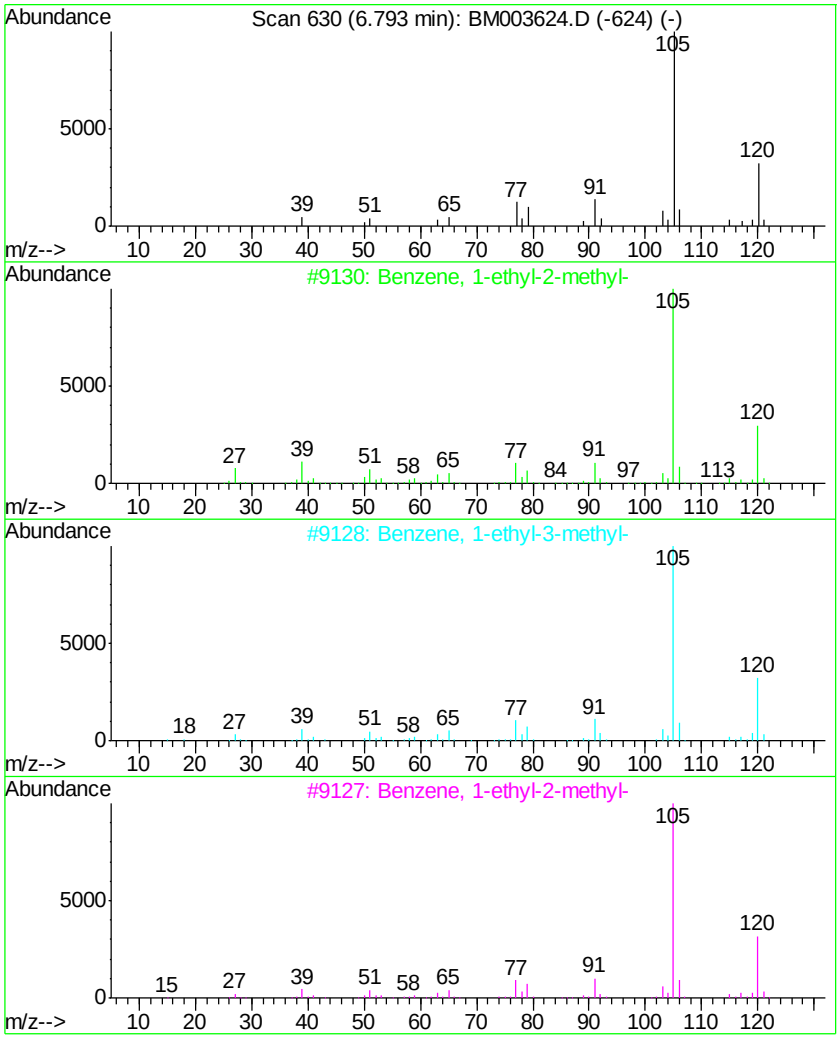
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

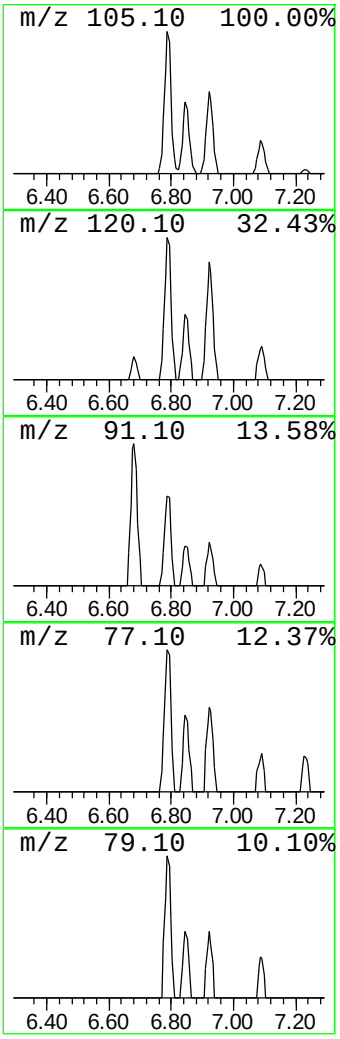
****

Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.79	9.97 ng/ul	62718	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

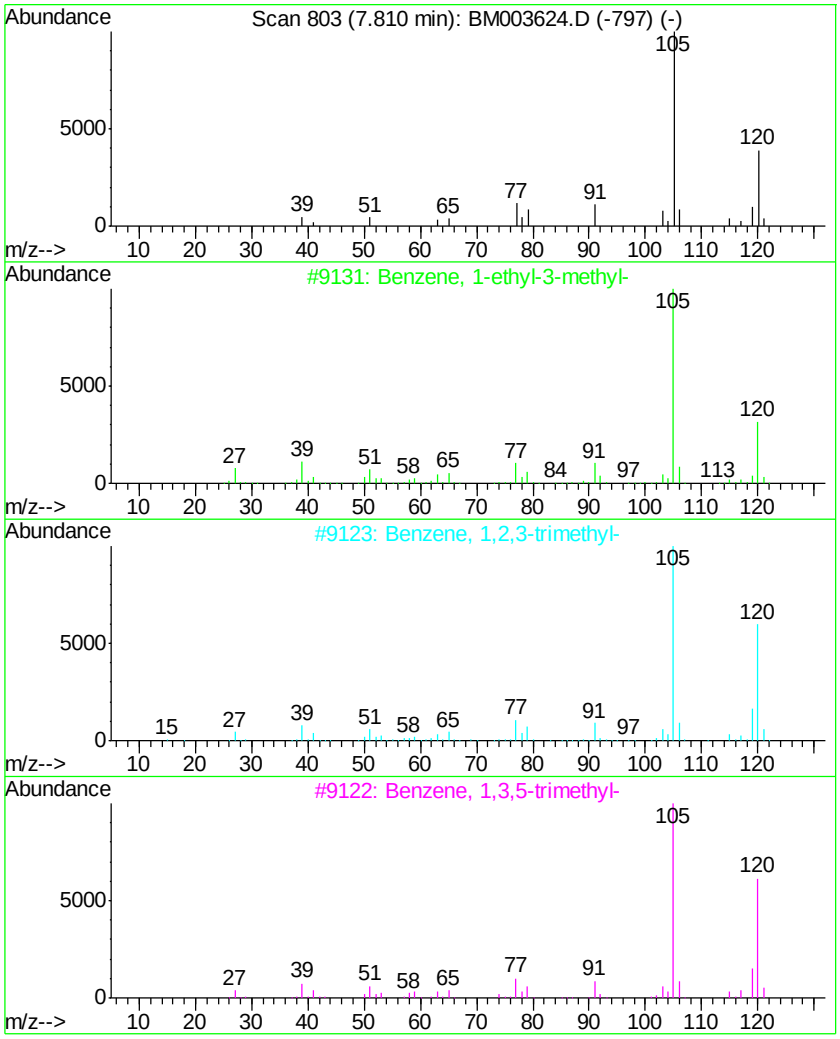
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

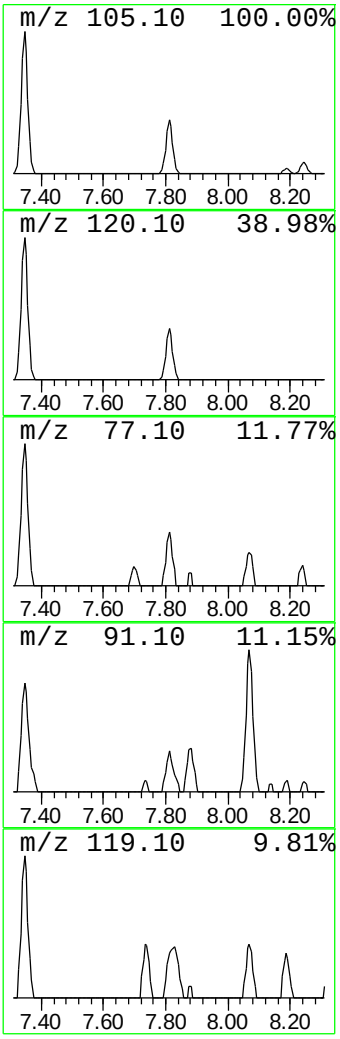
****

Peak Number 6 Benzene, 1-ethyl-3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.81	8.54 ng/ul	53705	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

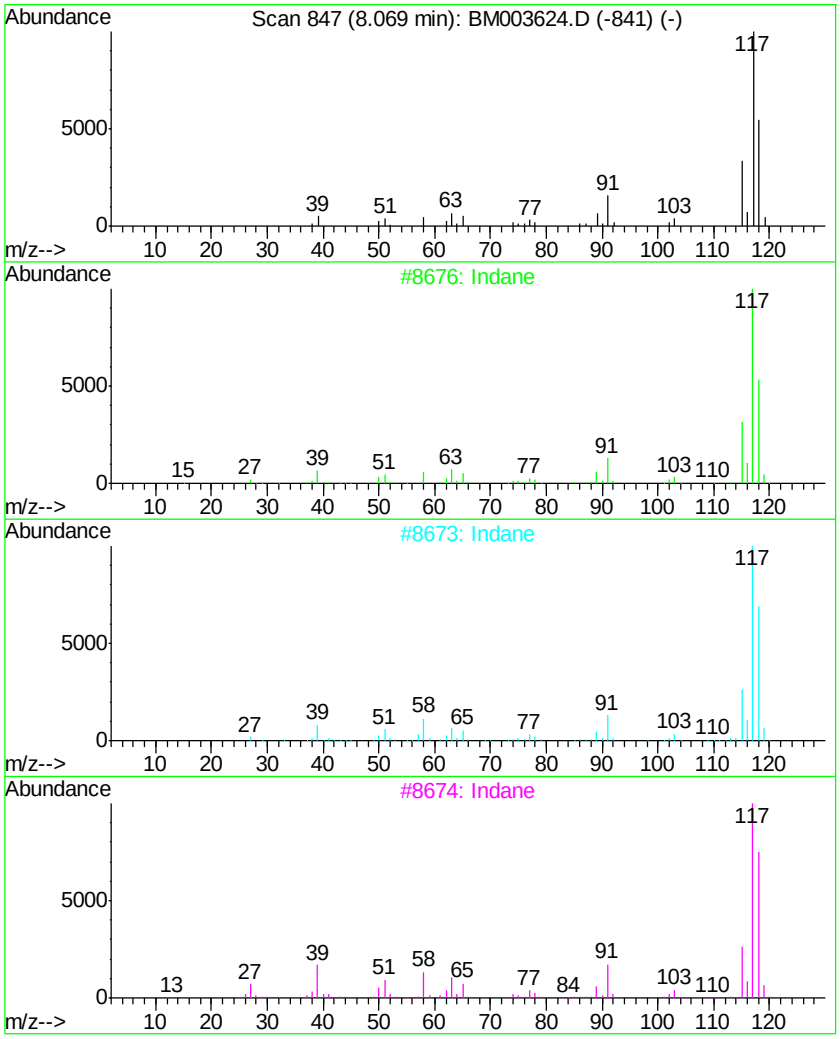
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

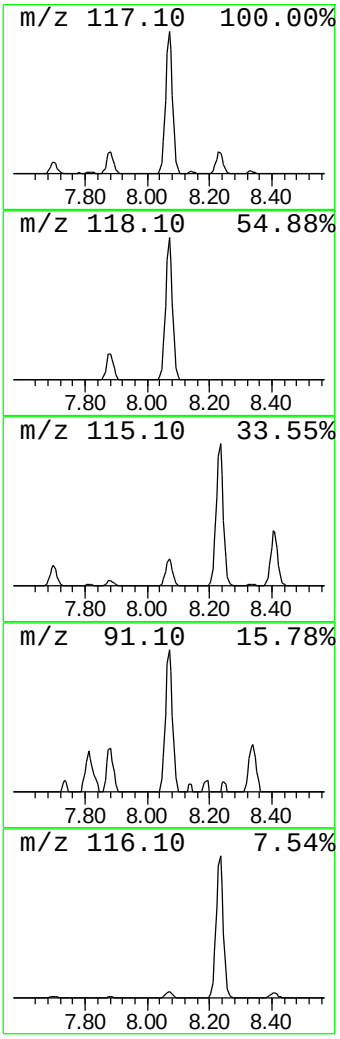
****

Peak Number 7 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.07	25.03 ng/ul	157379	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Indane	118	C9H10	000496-11-7	87
3	Indane	118	C9H10	000496-11-7	87
4	Deltacyclene	118	C9H10	007785-10-6	80
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

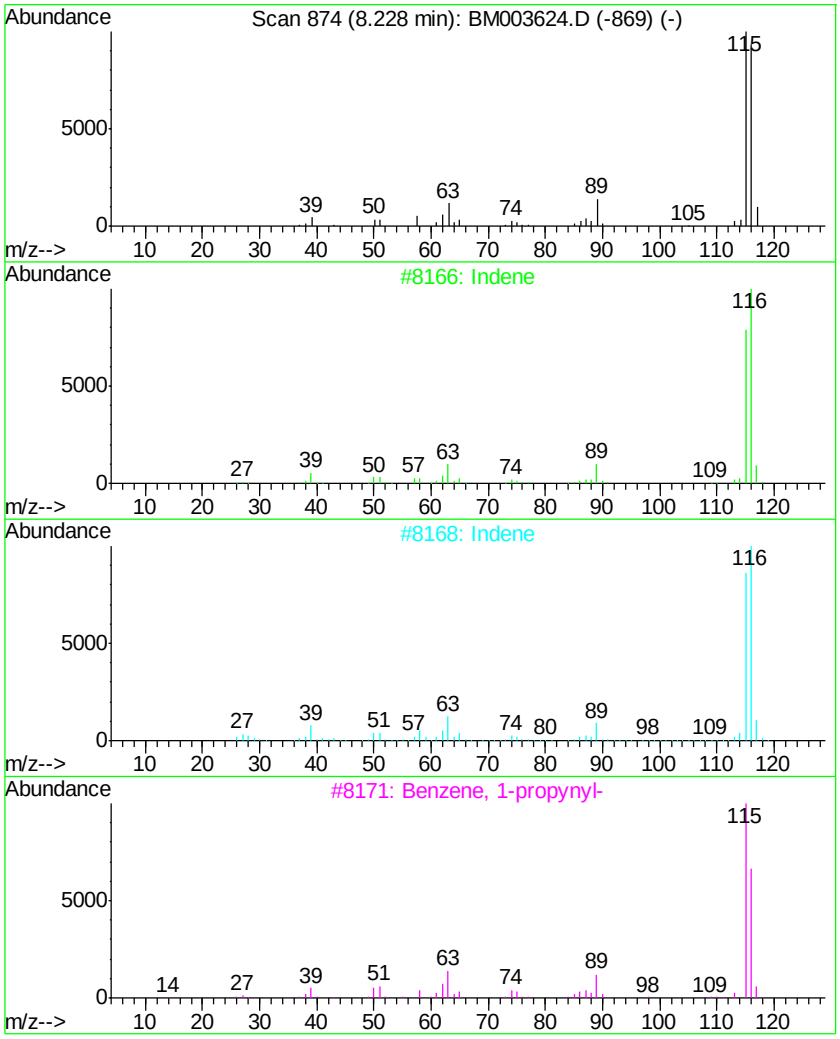
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

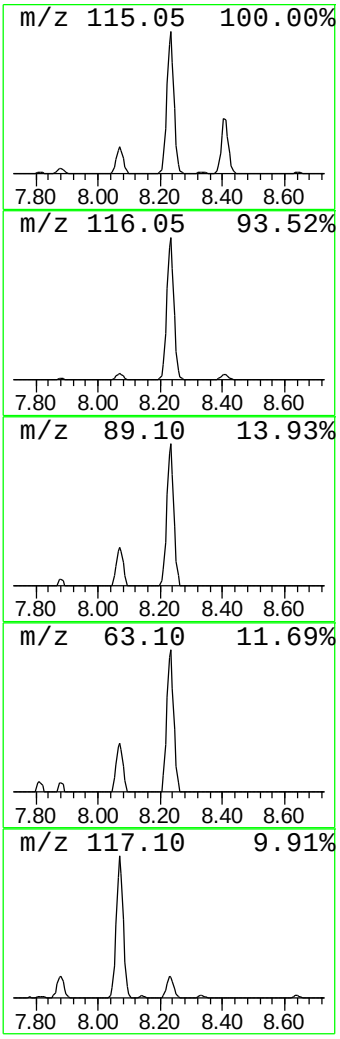
****

Peak Number 8 Indene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.23	46.50 ng/ul	292403	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Indene	116	C9H8	000095-13-6	95
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
5	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	91





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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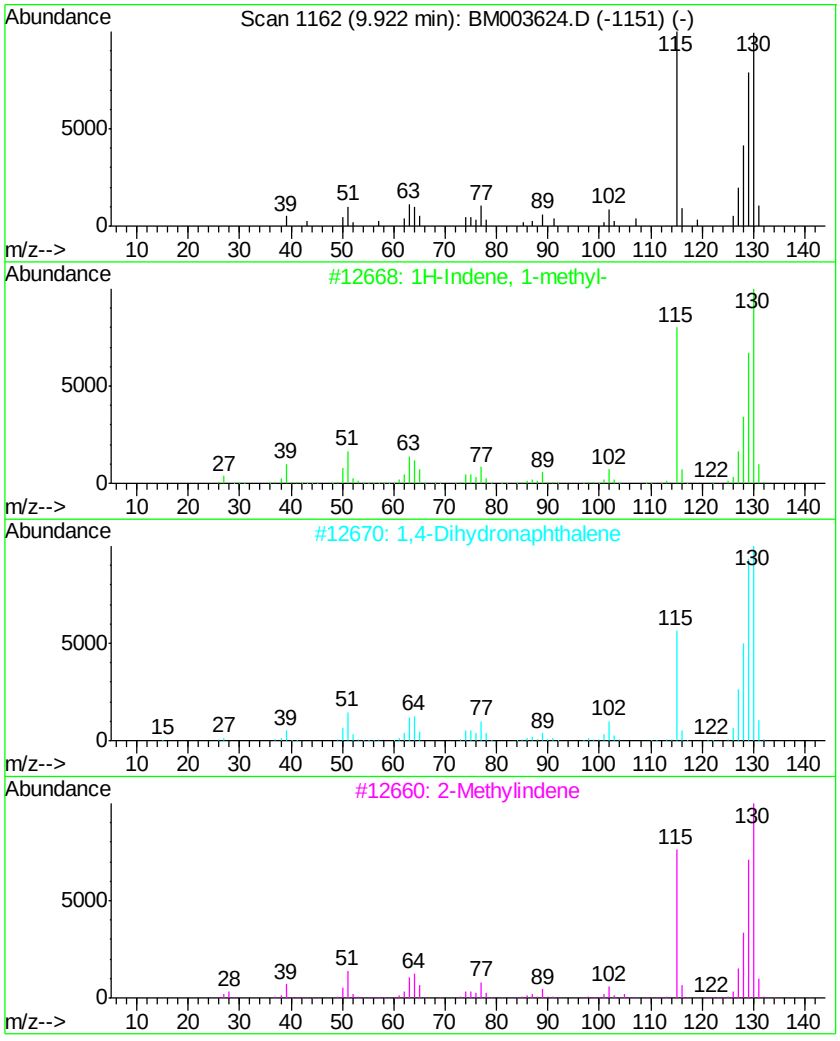
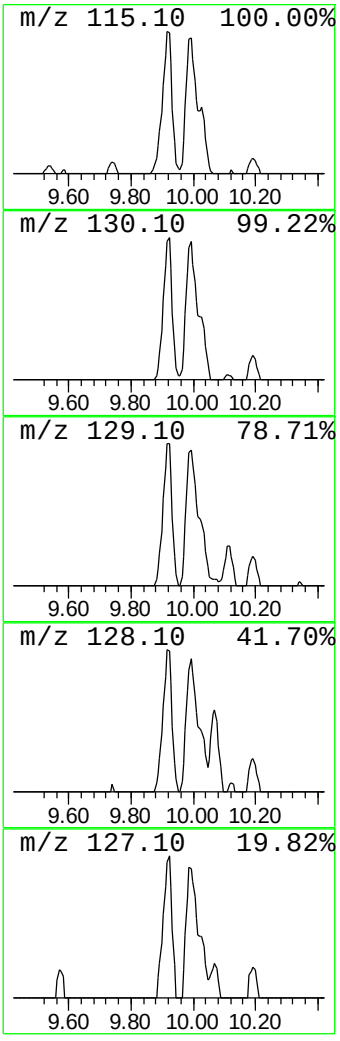
Peak Number 9 1H-Indene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	13.45 ng/ul	187033	Naphthalene-d8	10.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	95
2	1,4-Dihydronaphthalene	130	C10H10	000612-17-9	95
3	2-Methylindene	130	C10H10	002177-47-1	94
4	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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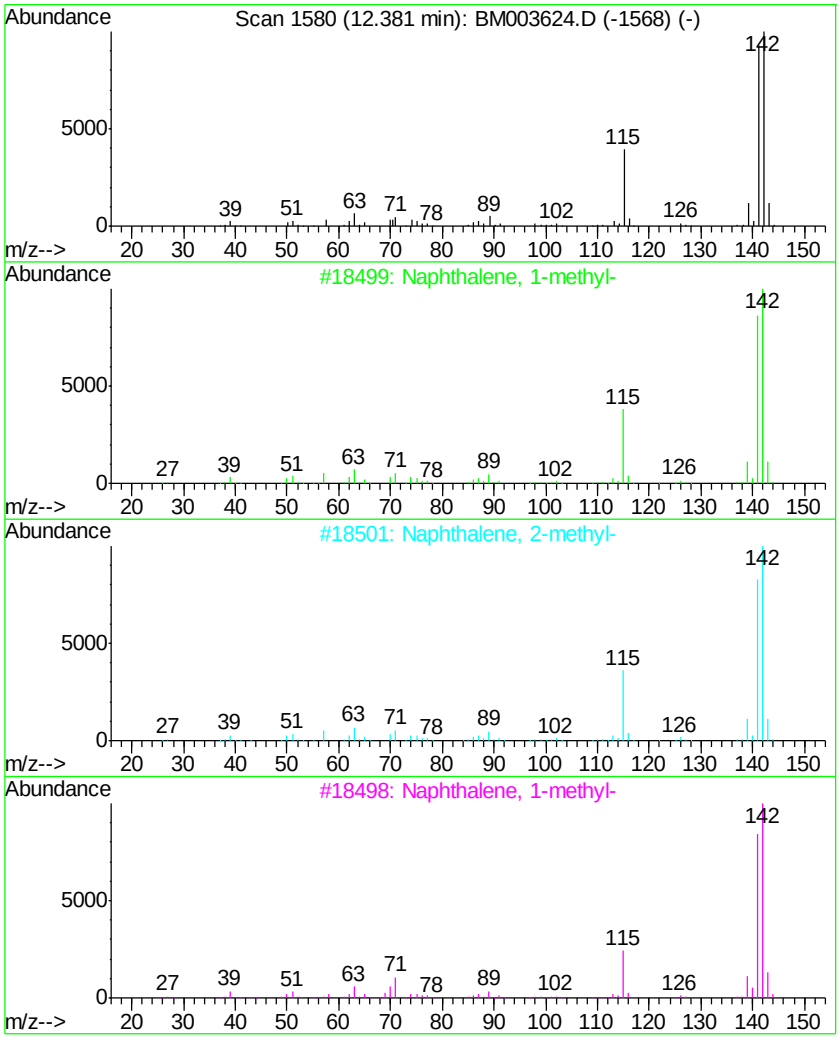
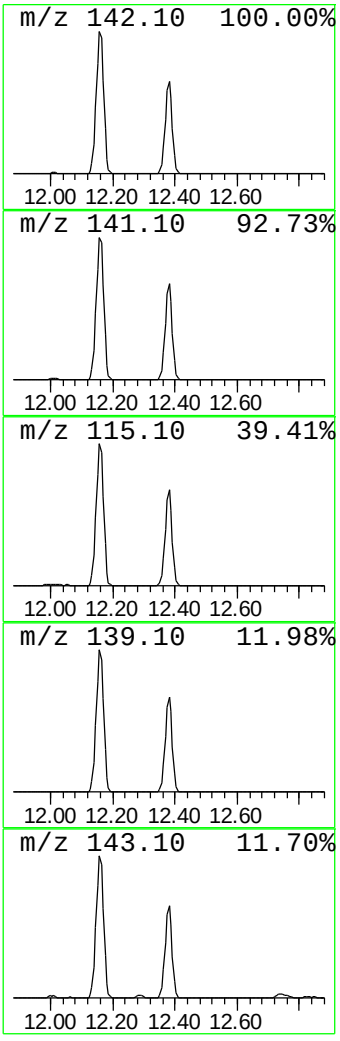
Peak Number 11 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	68.08 ng/ul	946874	Naphthalene-d8	10.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91





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Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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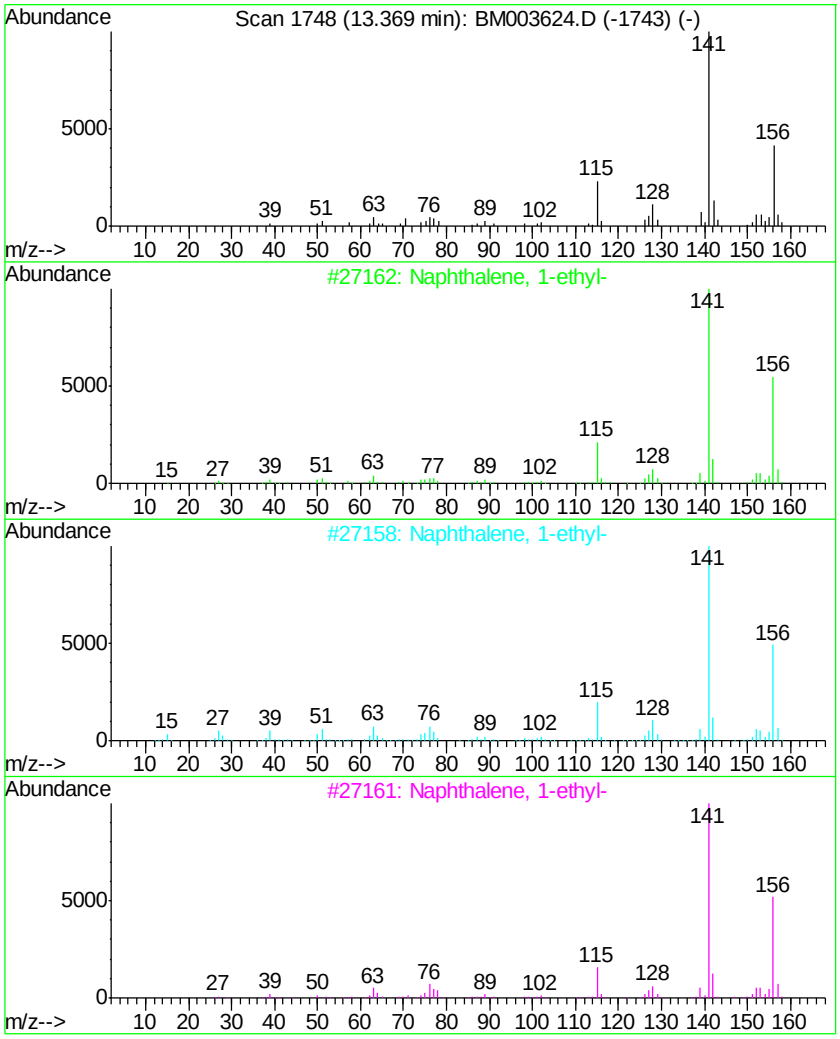
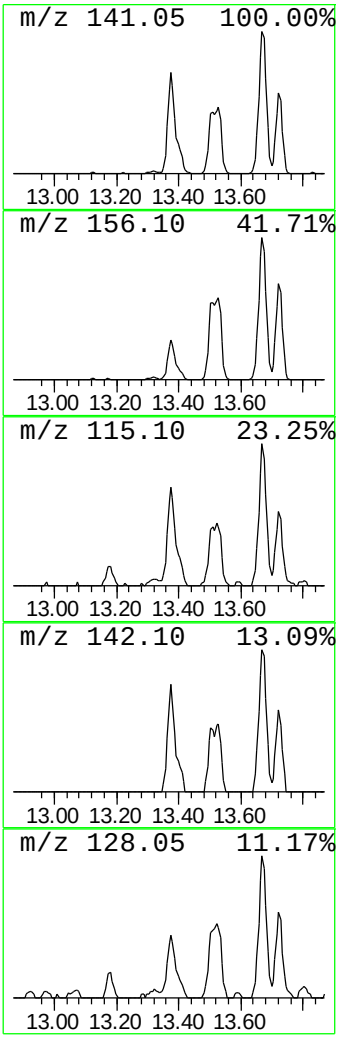
Peak Number 12 Naphthalene, 1-ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.37	9.29 ng/ul	231627	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94





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Instrument : BNA_M
ClientSampleId : G9C64

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Quant Title : SVOA CALIBRATION

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

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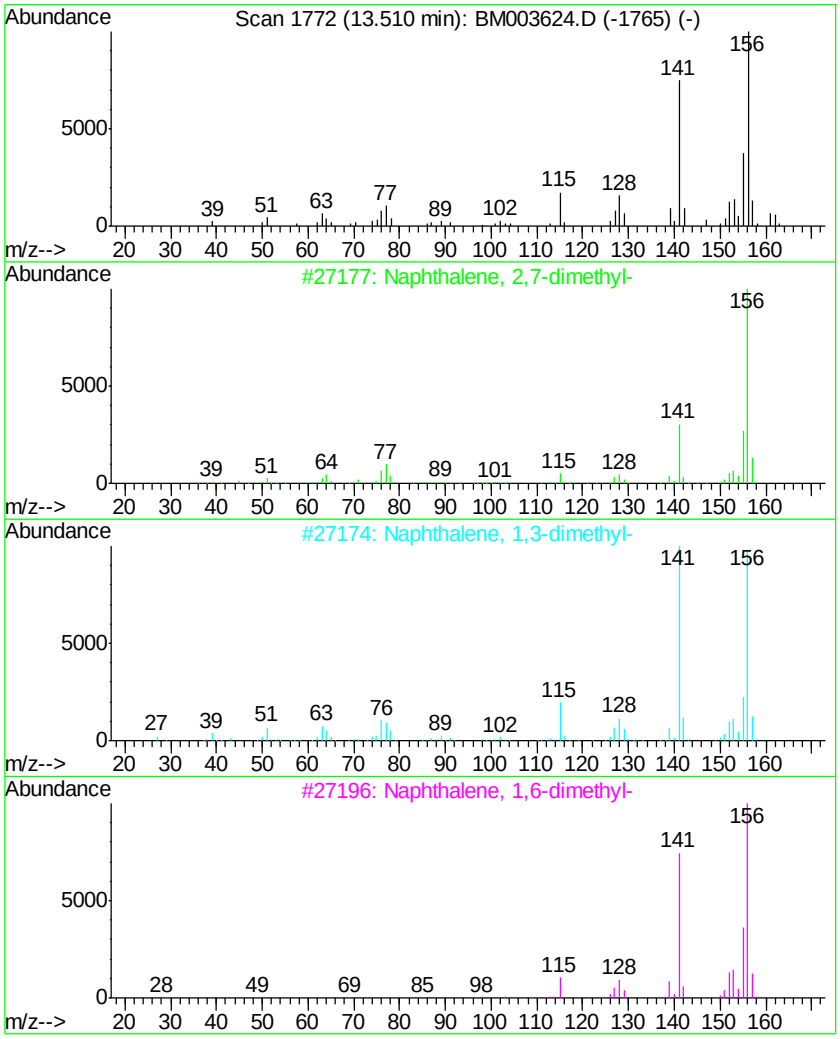
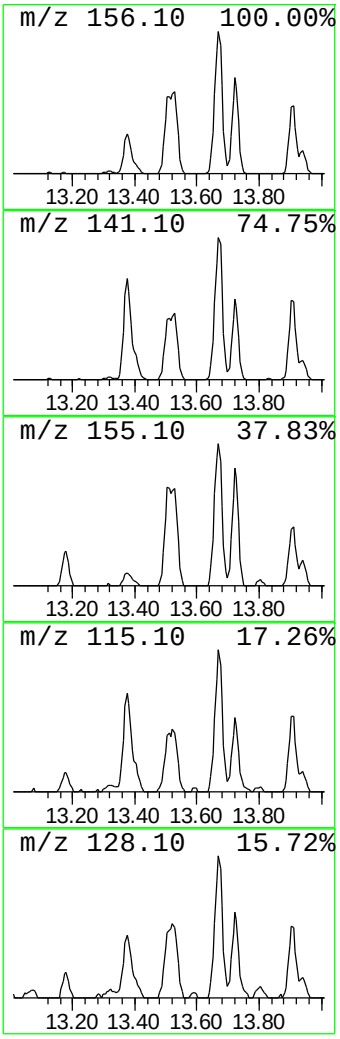
Peak Number 13 Naphthalene, 2,7-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	8.30 ng/ul	206947	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





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Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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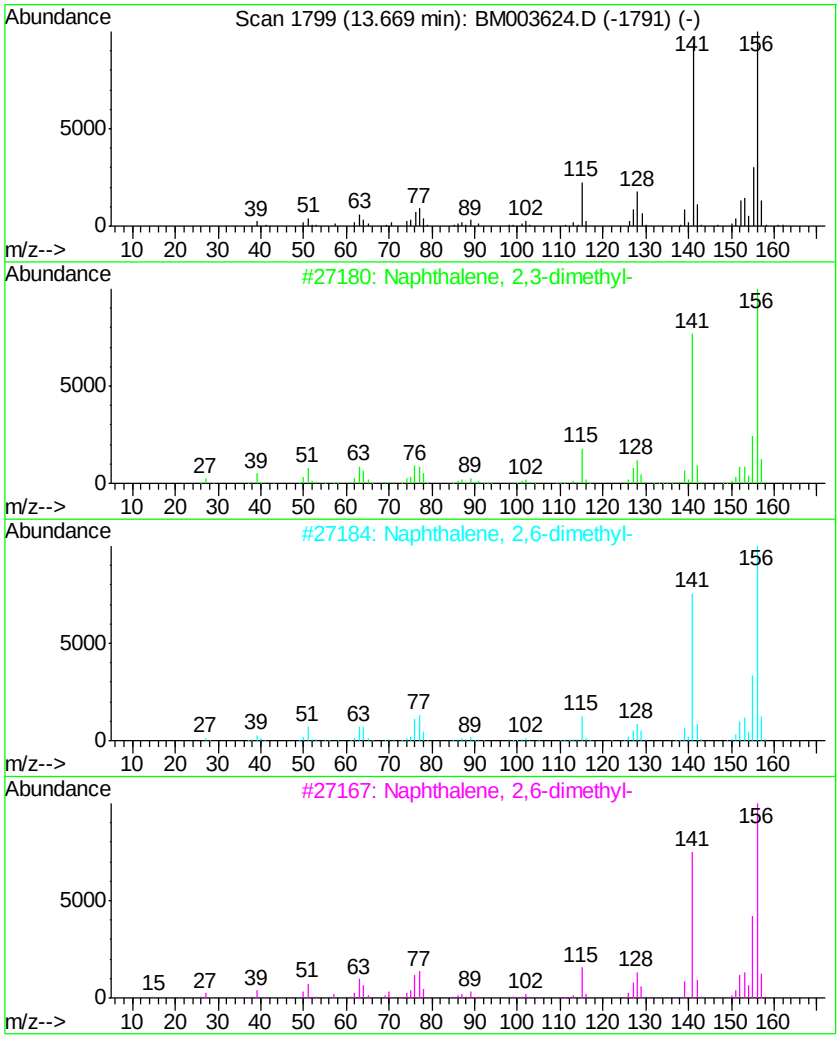
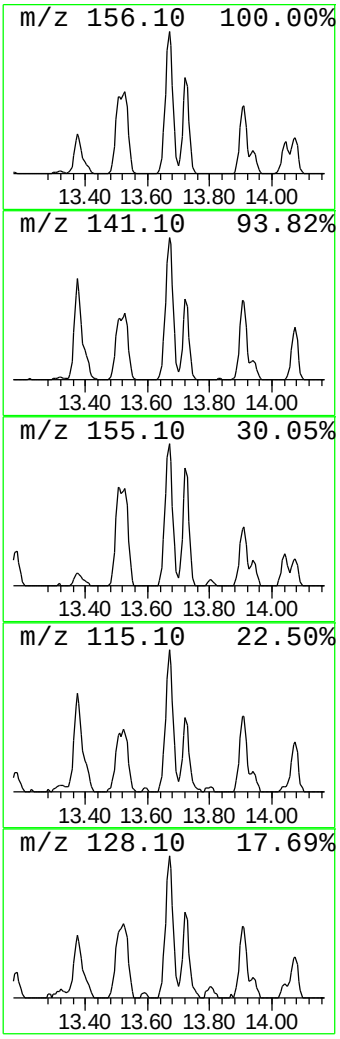
Peak Number 14 Naphthalene, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	18.69 ng/ul	466336	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





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Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

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Quant Title : SVOA CALIBRATION

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

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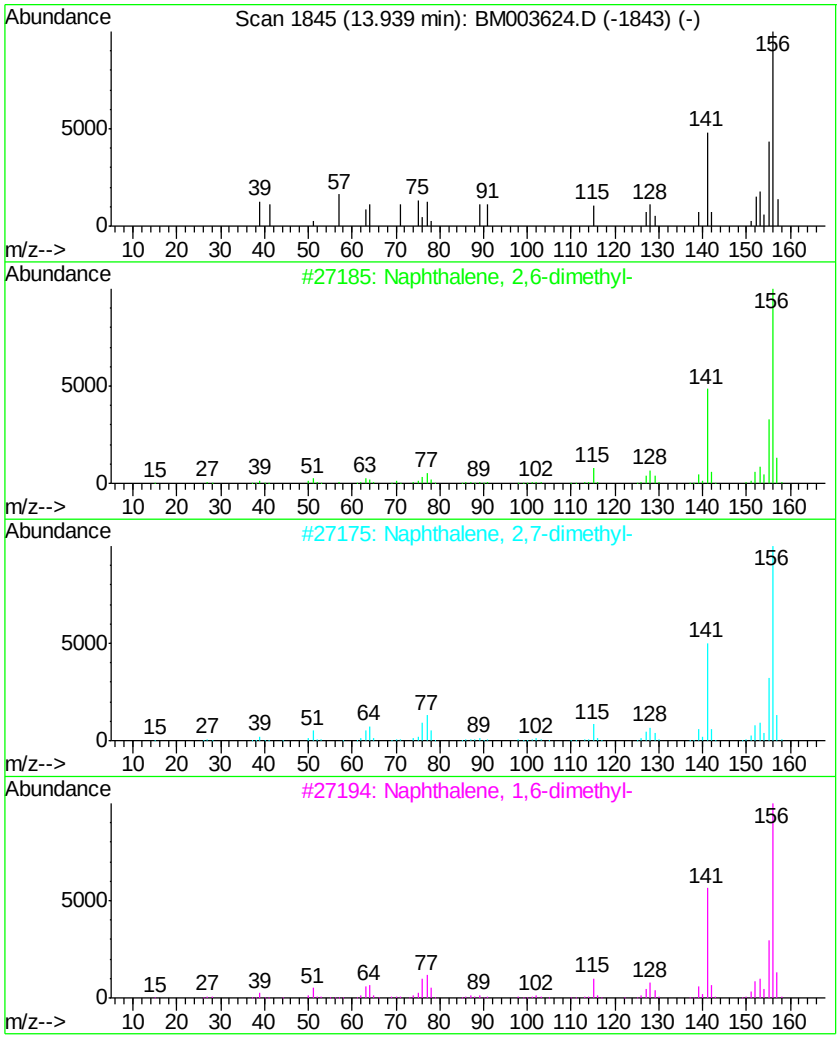
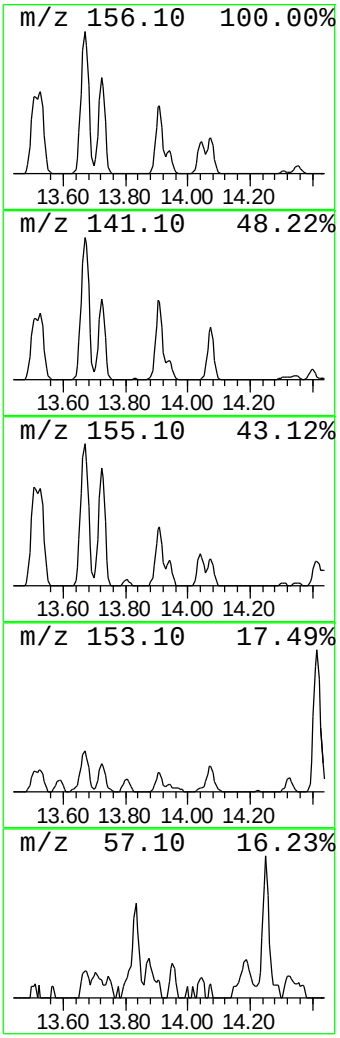
Peak Number 16 Naphthalene, 2,6-dimethyl- Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	2.05 ng/ul	51234	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	93
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	90
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	90
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	90





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Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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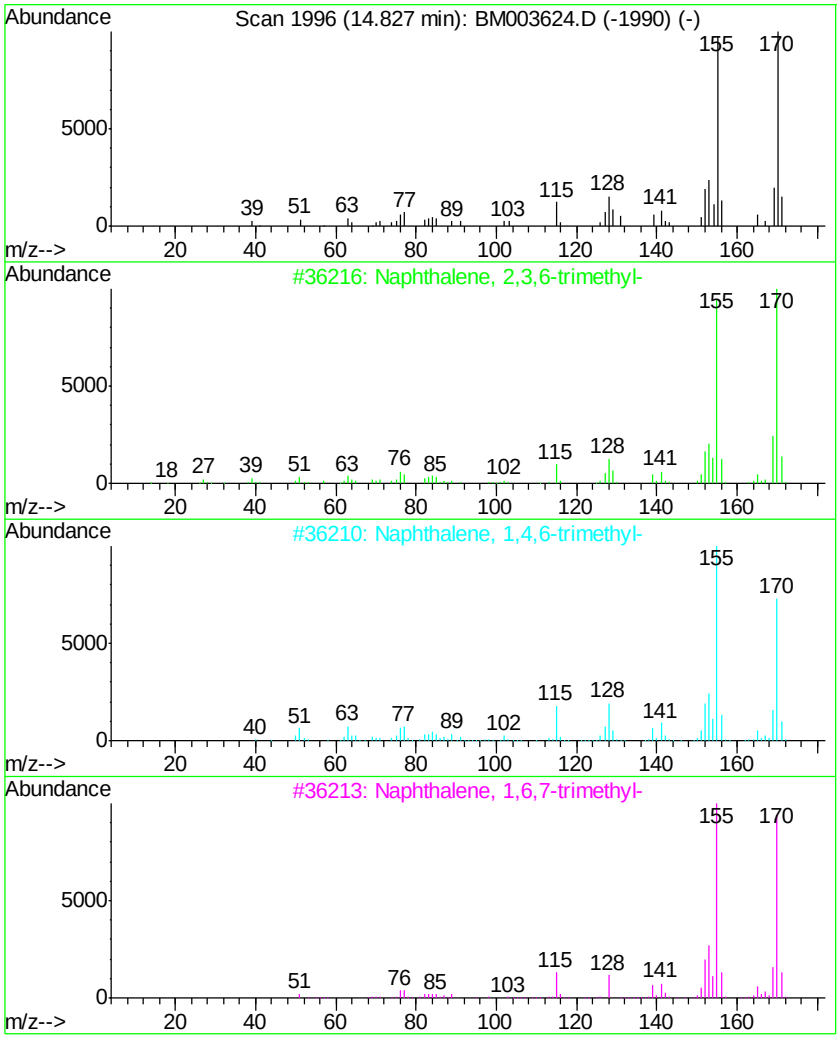
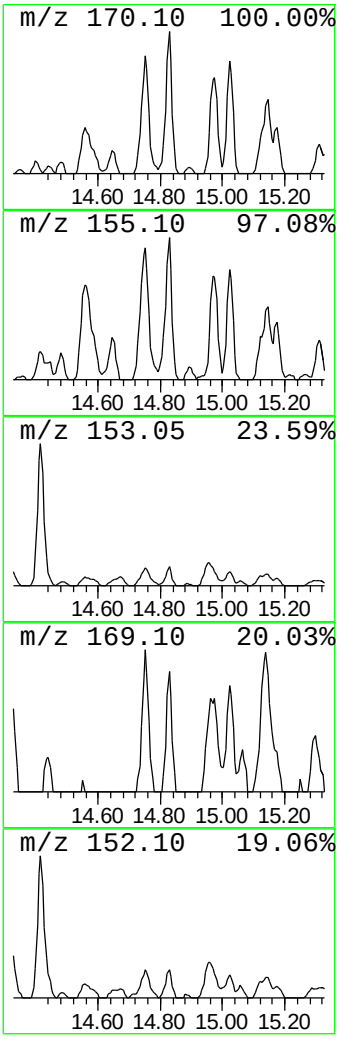
Peak Number 17 Naphthalene, 2,3,6-trimethyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	4.24 ng/ul	105768	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96





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Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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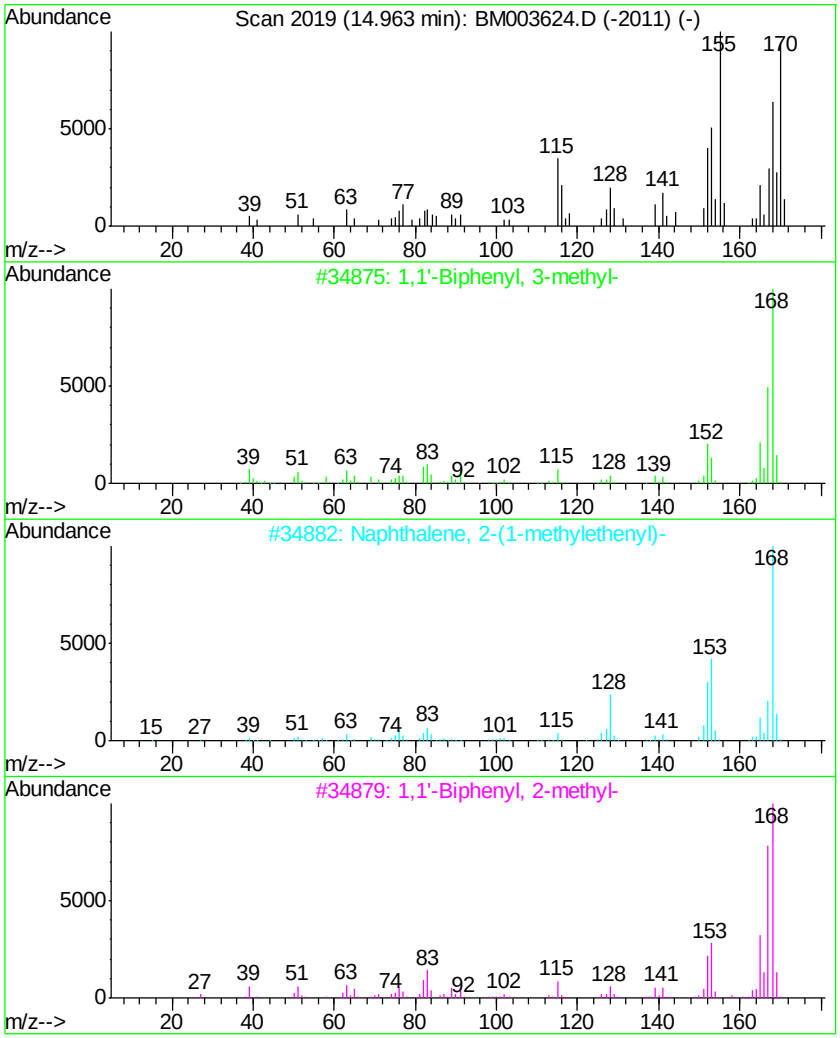
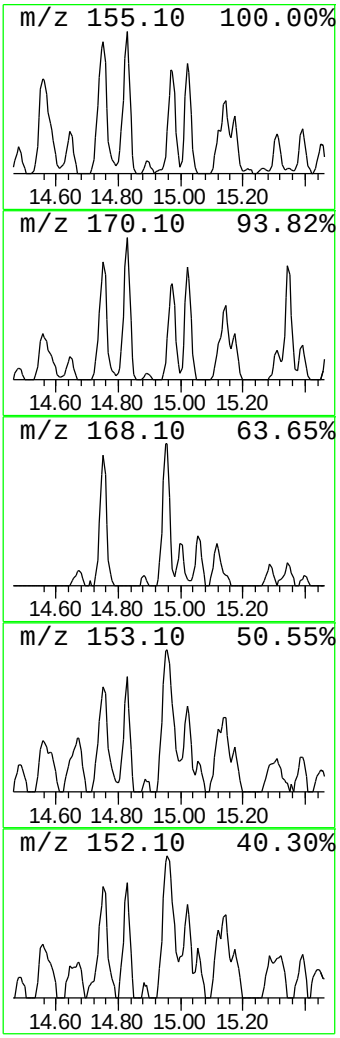
Peak Number 18 1,1'-Biphenyl, 3-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	7.05 ng/ul	175935	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	83
2	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	50
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	50
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	38
5	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	35





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Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

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Quant Title : SVOA CALIBRATION

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

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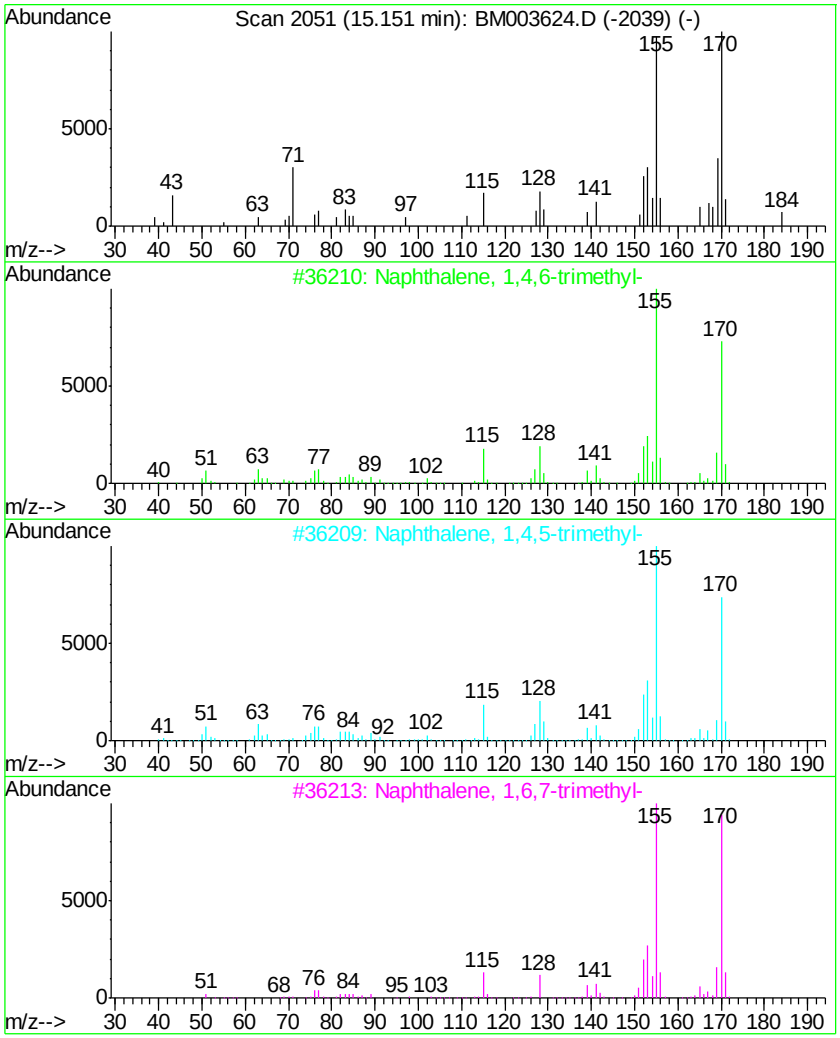
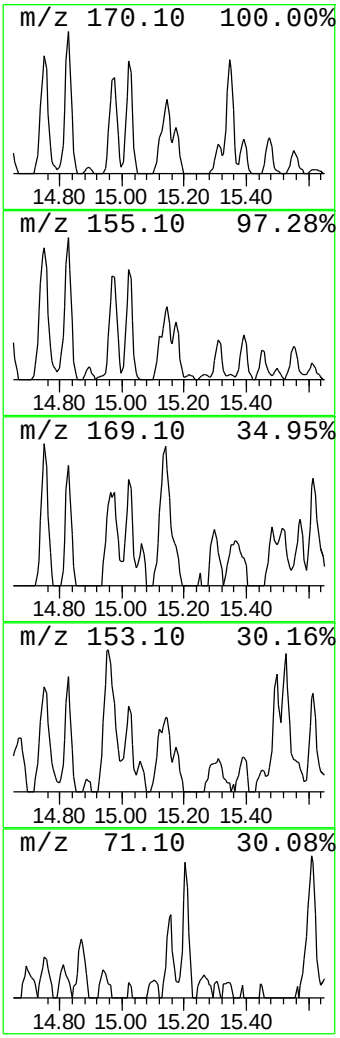
Peak Number 20 Naphthalene, 1,4,6-trimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.15	4.60 ng/ul	114745	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	95
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	94
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93





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Quant Title : SVOA CALIBRATION

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

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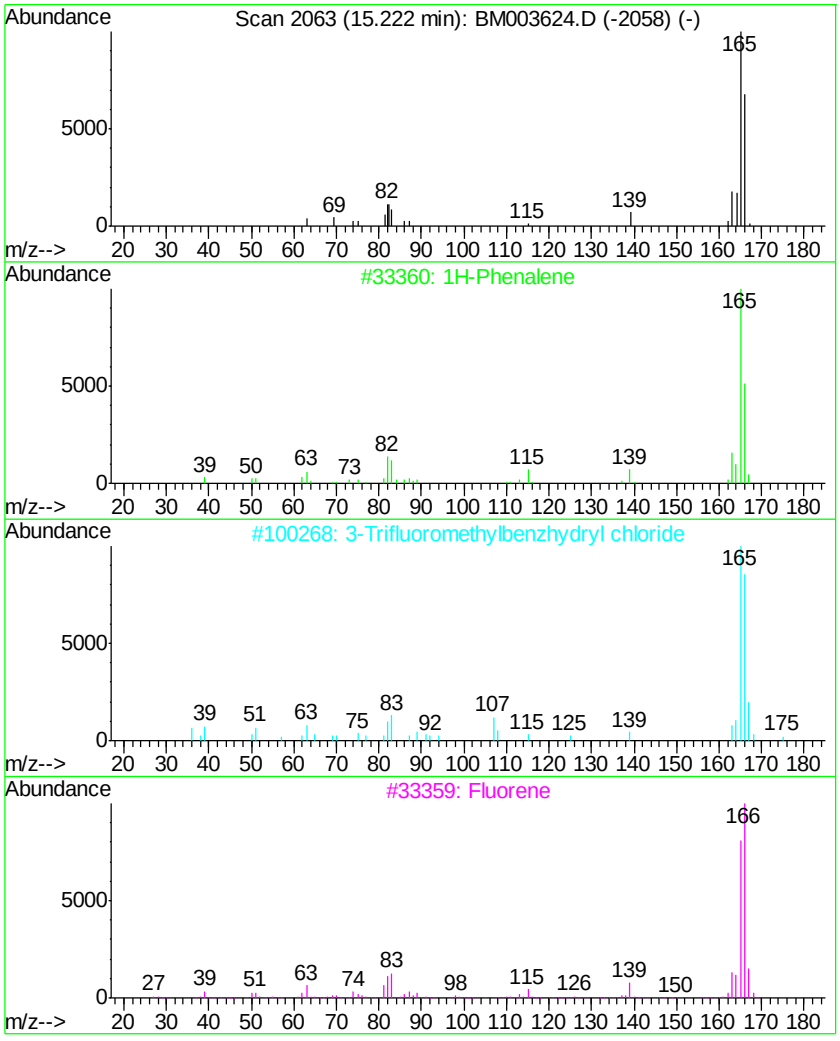
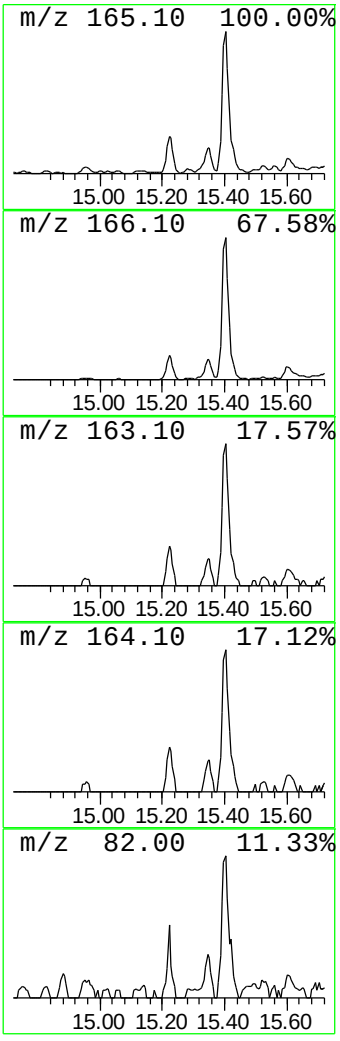
Peak Number 21 1H-Phenalene Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	2.68 ng/ul	66762	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Phenalene	166	C13H10	000203-80-5	72
2	3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	40
3	Fluorene	166	C13H10	000086-73-7	38
4	Fluorene	166	C13H10	000086-73-7	33
5	Cyclopentanone, 2-(3-dimethylami...	165	C10H15NO	059543-53-2	9





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Quant Title : SVOA CALIBRATION

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

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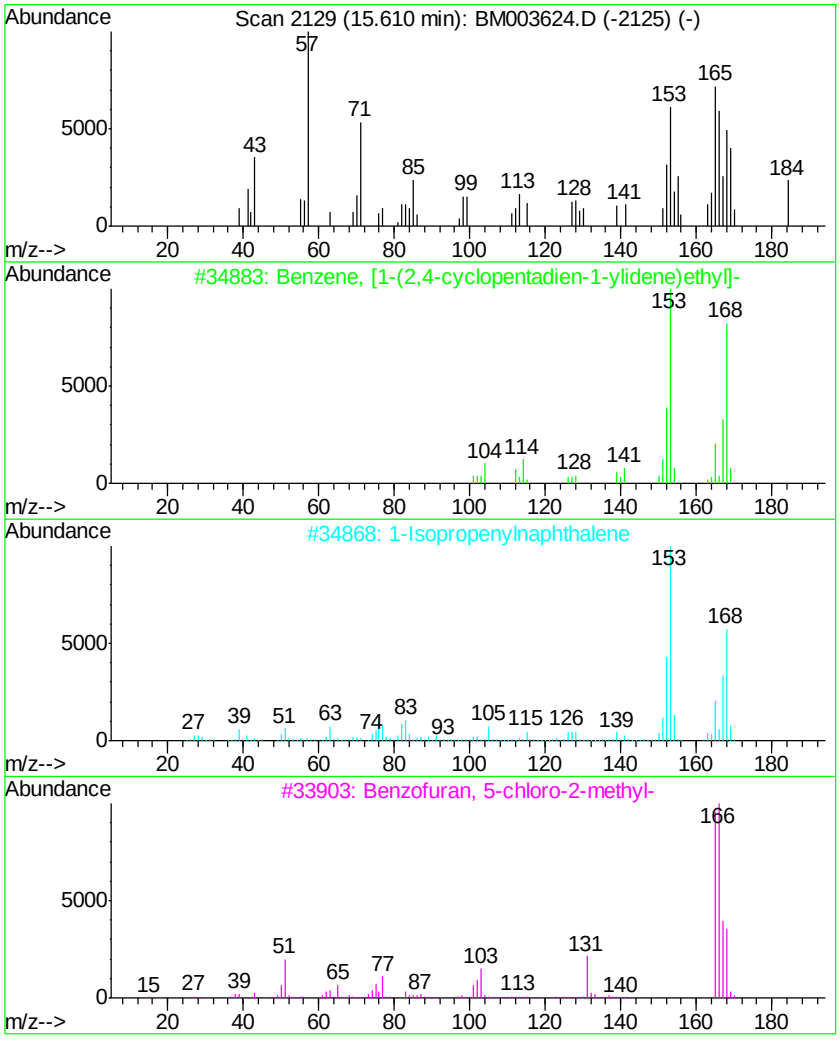
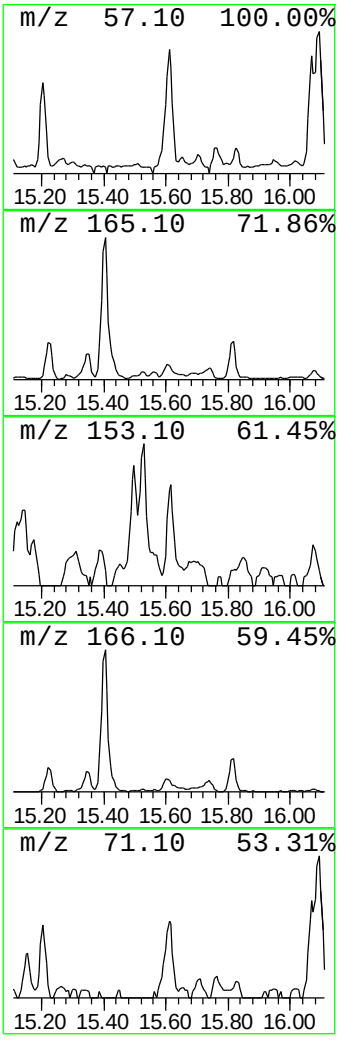
Peak Number 22 unknown-01 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.61	2.96 ng/ul	73726	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	38
2	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	30
3	Benzofuran, 5-chloro-2-methyl-	166	C9H7ClO	042180-82-5	27
4	Fluorene	166	C13H10	000086-73-7	18
5	1,1,4,4-Tetramethyl-1,4-disilacy...	168	C8H16Si2	020627-53-6	14





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Sample : G4801-16
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ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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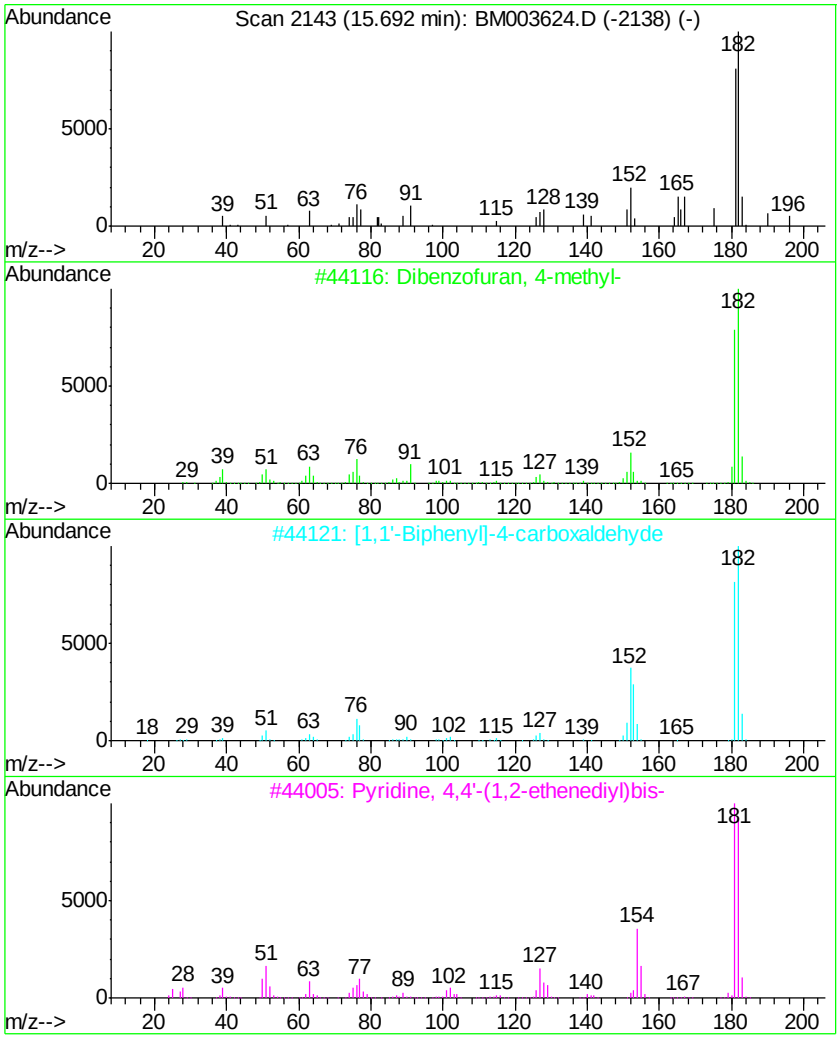
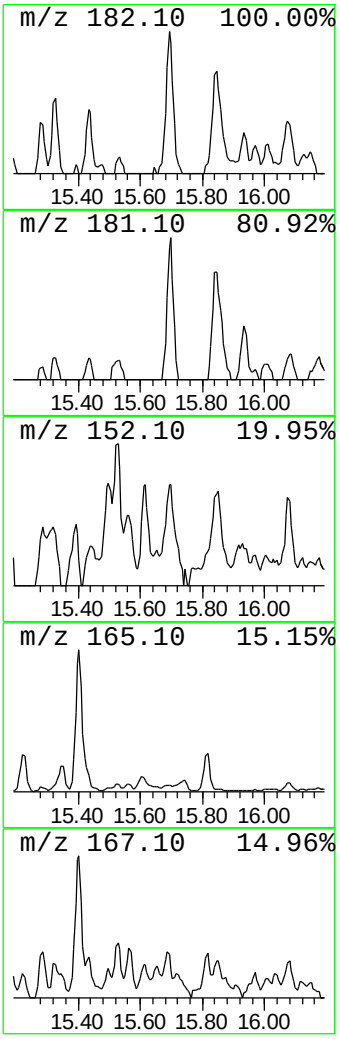
Peak Number 23 Dibenzofuran, 4-methyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.69	2.24 ng/ul	55934	Acenaphthene-d10	14.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	74
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	68
3	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64
4	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	58
5	Pyrido[2,3-d]indole, 6-methyl-	182	C12H10N2	108349-67-3	53





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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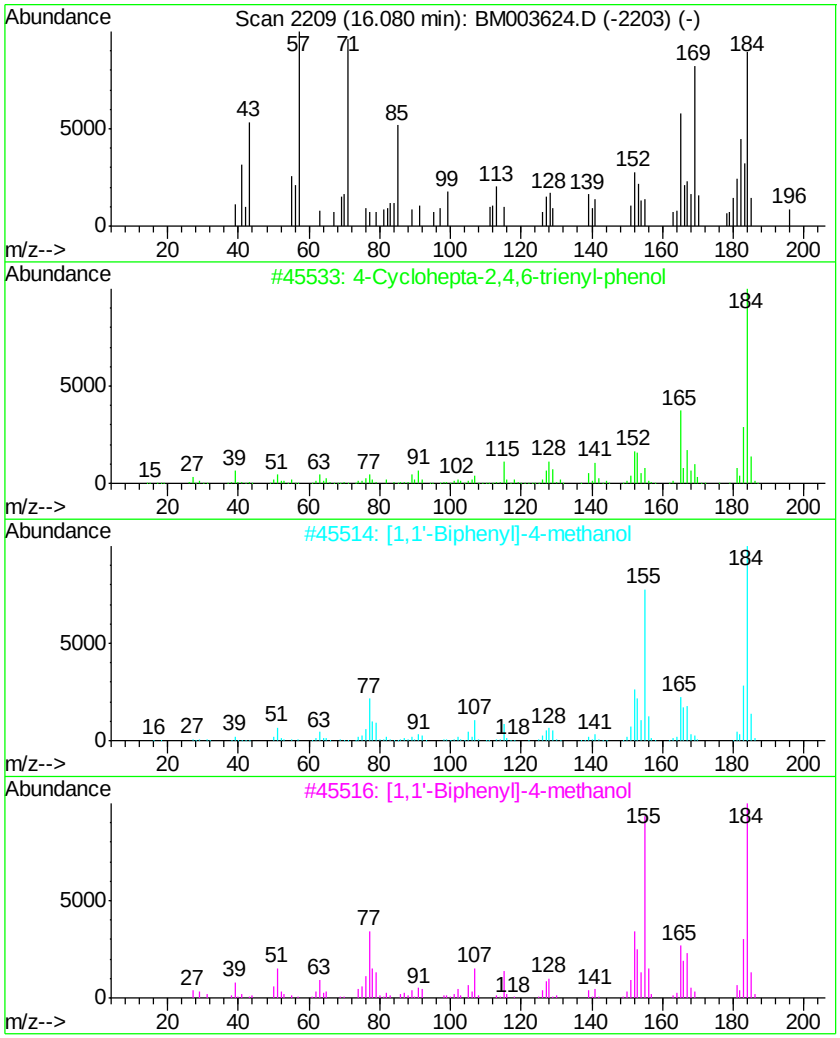
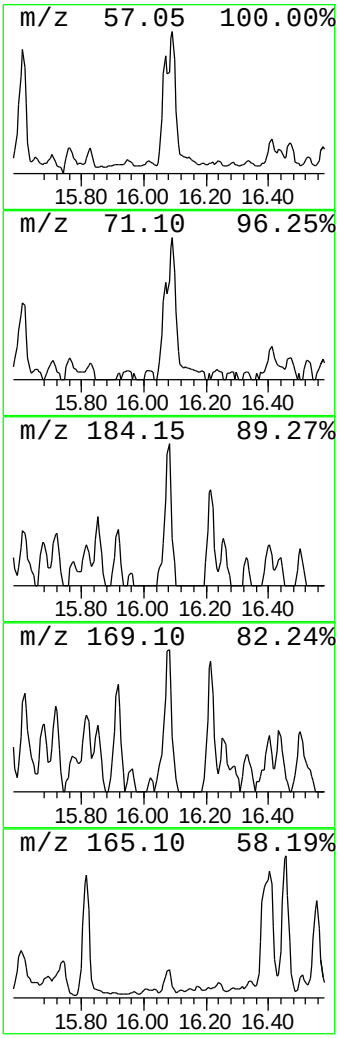
Peak Number 25 unknown-02 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.08	4.52 ng/ul	126693	Phenanthrene-d10	17.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Cyclohepta-2,4,6-trienyl-phenol	184	C13H12O	091902-42-0	49
2	[1,1'-Biphenyl]-4-methanol	184	C13H12O	003597-91-9	47
3	[1,1'-Biphenyl]-4-methanol	184	C13H12O	003597-91-9	46
4	Dodecane	170	C12H26	000112-40-3	43
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	38





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Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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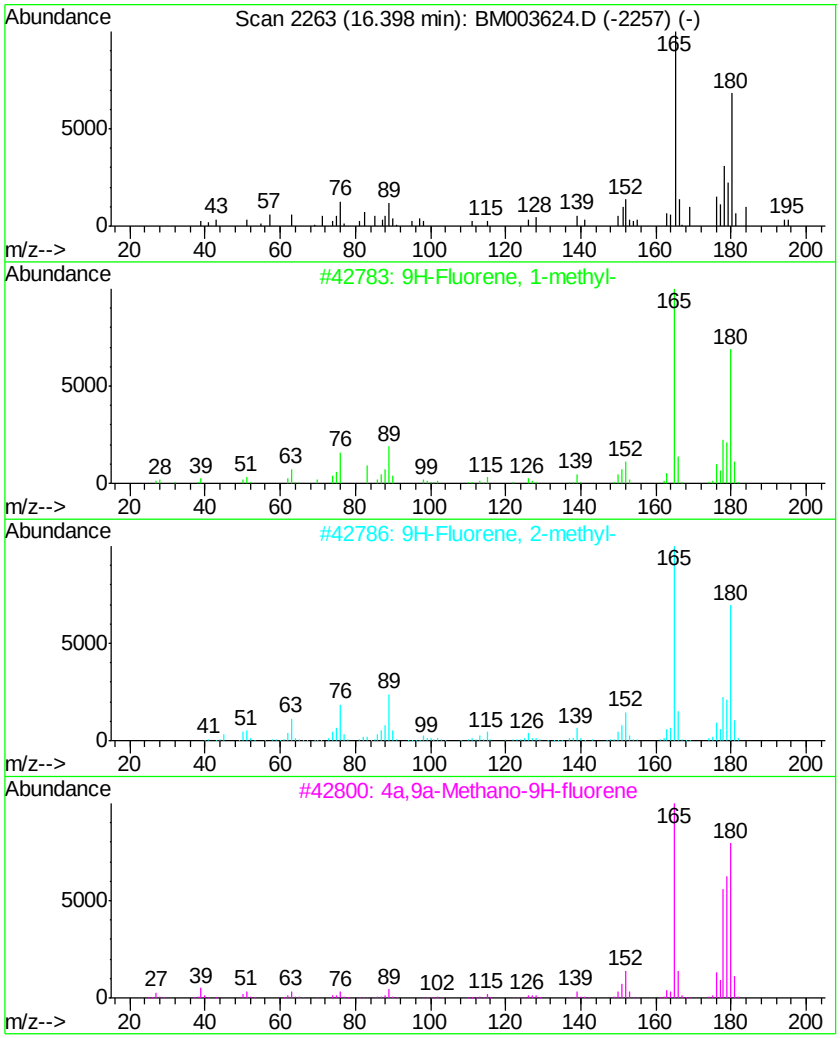
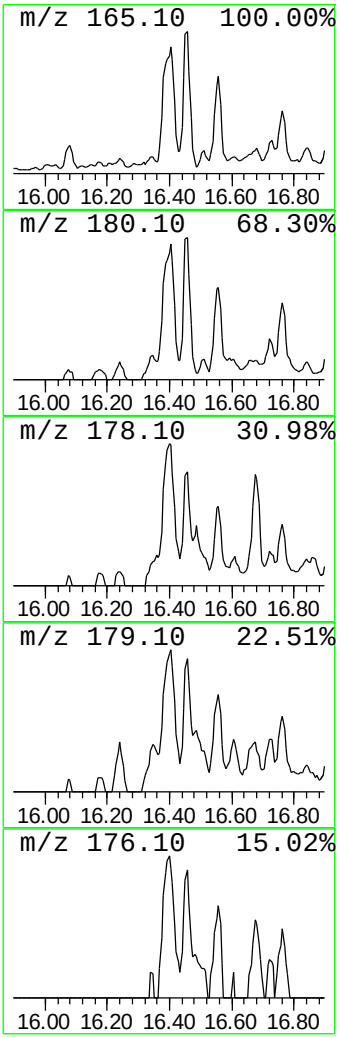
Peak Number 26 9H-Fluorene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.40	5.30 ng/ul	148452	Phenanthrene-d10	17.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	70
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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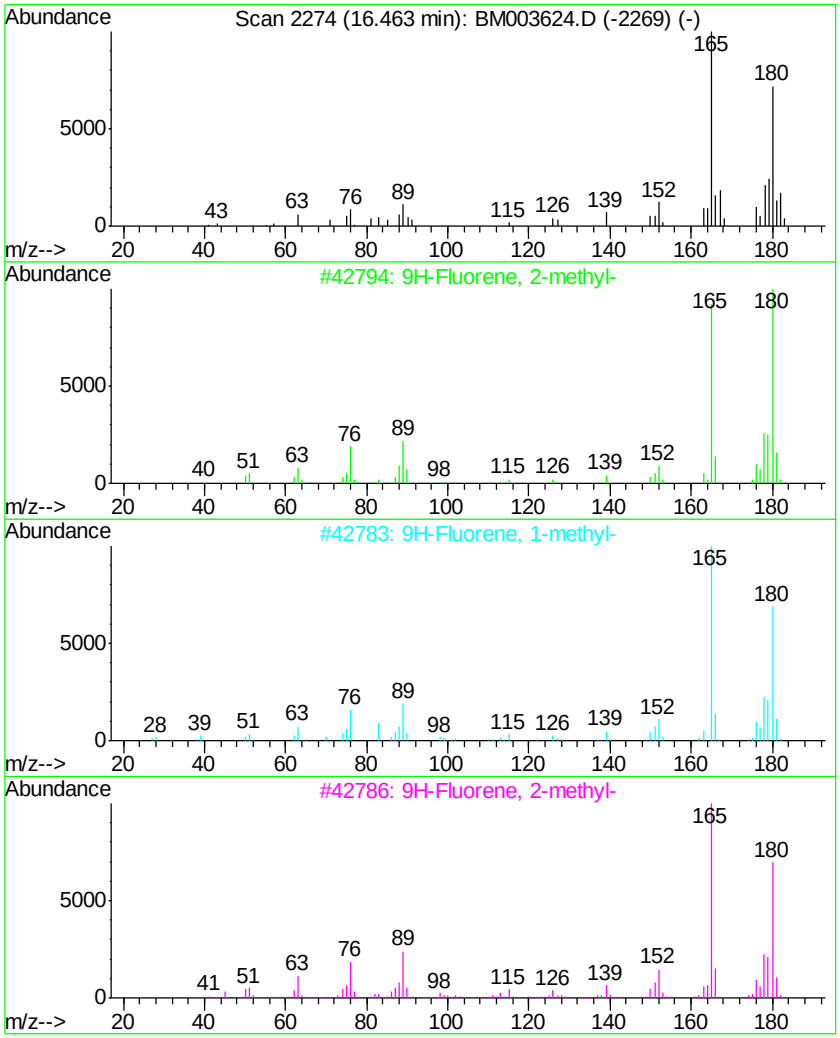
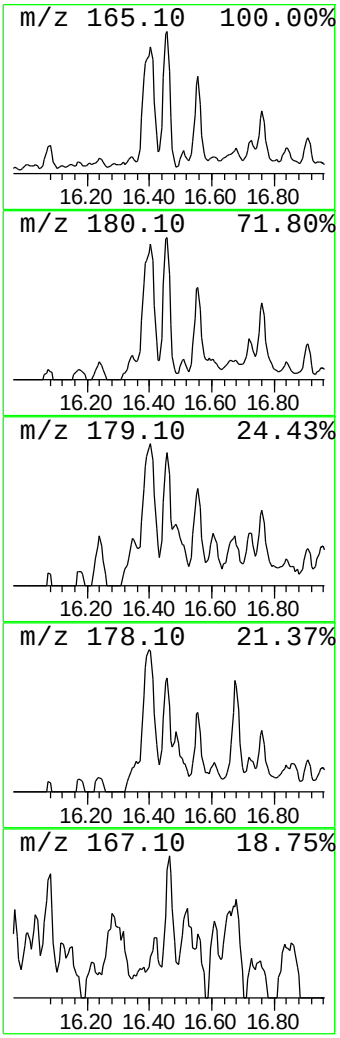
Peak Number 27 9H-Fluorene, 2-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	3.23 ng/ul	90431	Phenanthrene-d10	17.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95





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Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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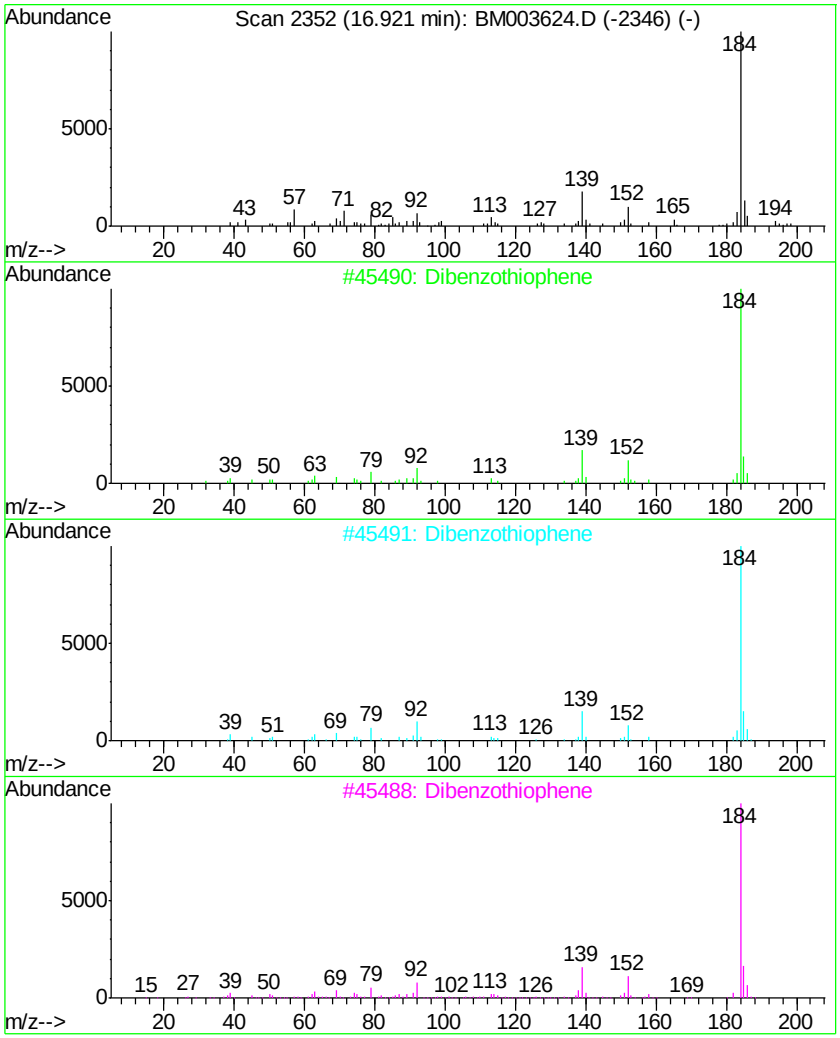
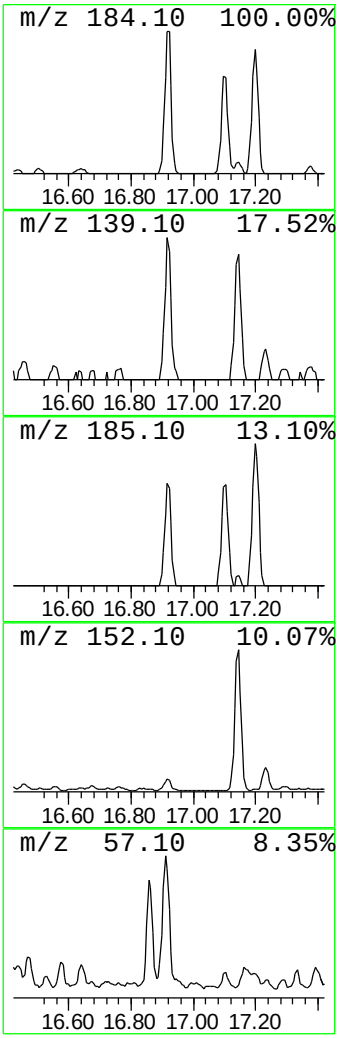
Peak Number 29 Dibenzothiophene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.92	5.73 ng/ul	160521	Phenanthrene-d10	17.10

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





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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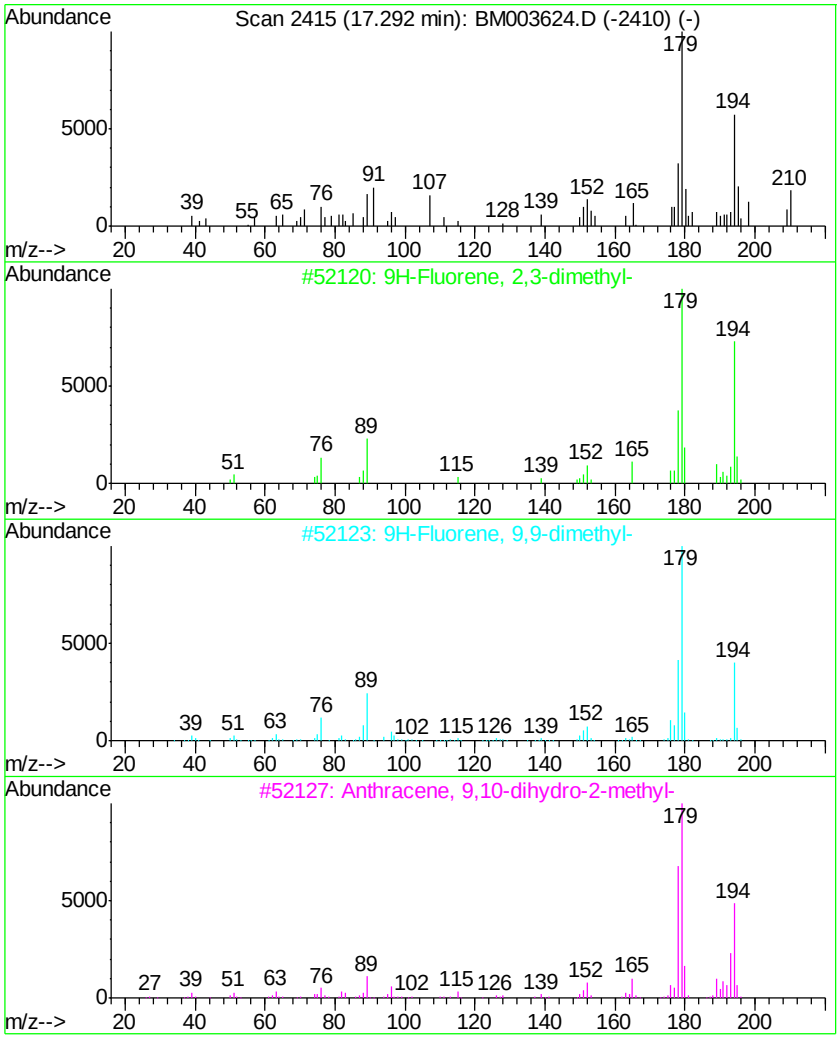
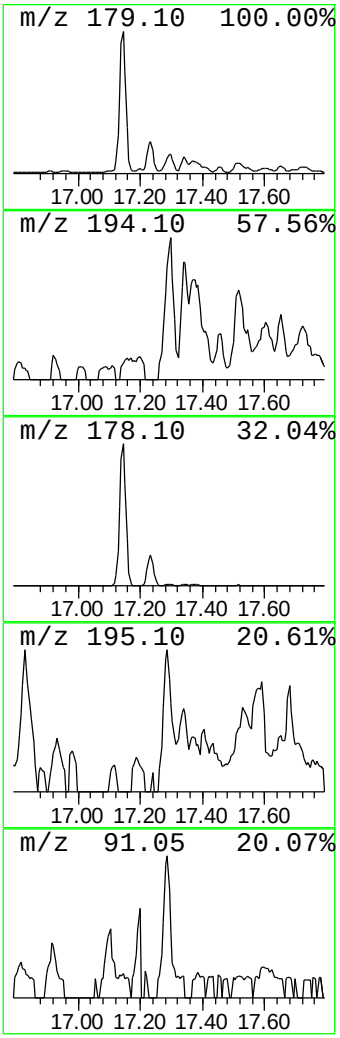
Peak Number 30 9H-Fluorene, 2,3-dimethyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.29	2.63 ng/ul	73734	Phenanthrene-d10	17.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2,3-dimethyl-	194	C15H14	004612-63-9	97
2	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	64
3	Anthracene, 9,10-dihydro-2-methyl-	194	C15H14	000948-67-4	58
4	Phenanthrene, 9,10-dihydro-1-met...	194	C15H14	095676-48-5	58
5	Benzo[h]quinoline	179	C13H9N	000230-27-3	53





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

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

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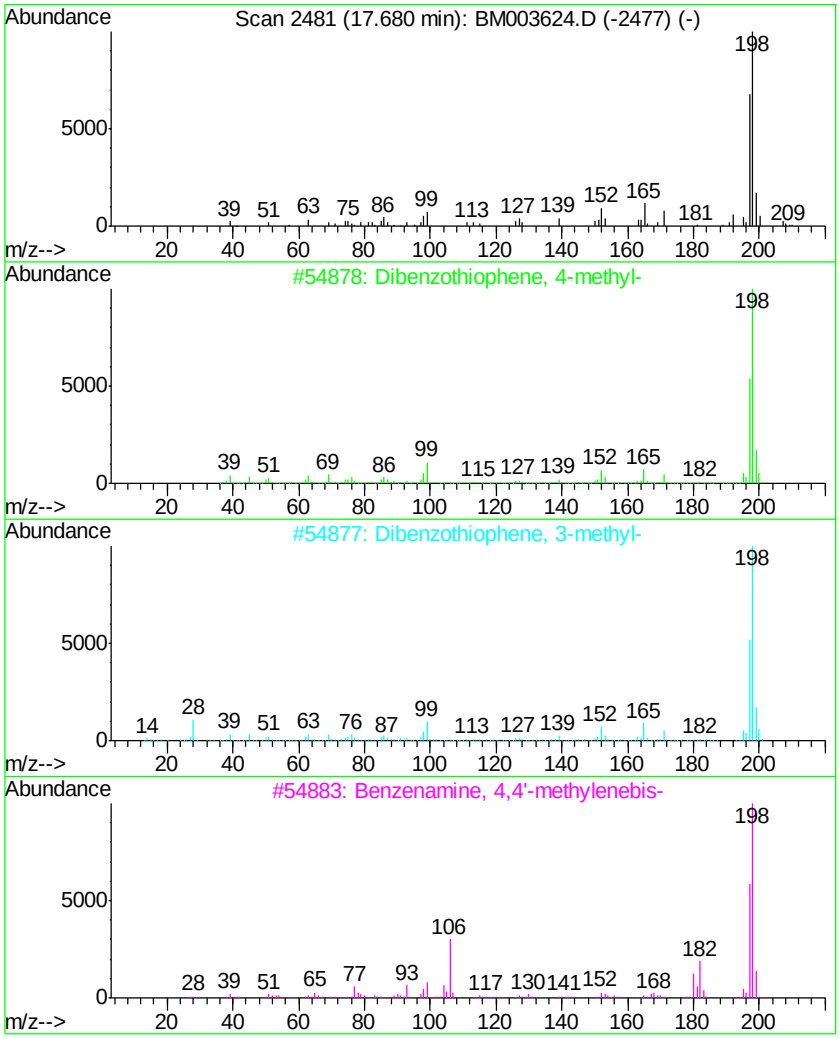
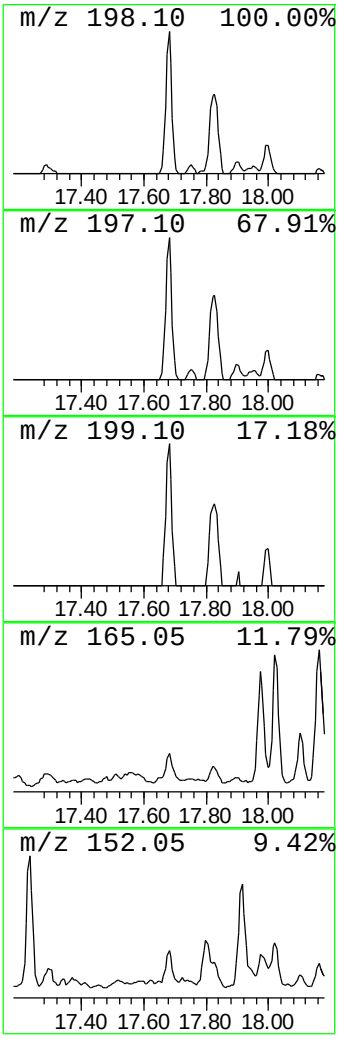
Peak Number 31 Dibenzothiophene, 4-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.68	2.91 ng/ul	81655	Phenanthrene-d10	17.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64
5	1,2,3,4-Tetrahydrophenanthren-9-ol	198	C14H14O	019817-12-0	59





Data Path : Z:\HPCHEM1\BNA M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

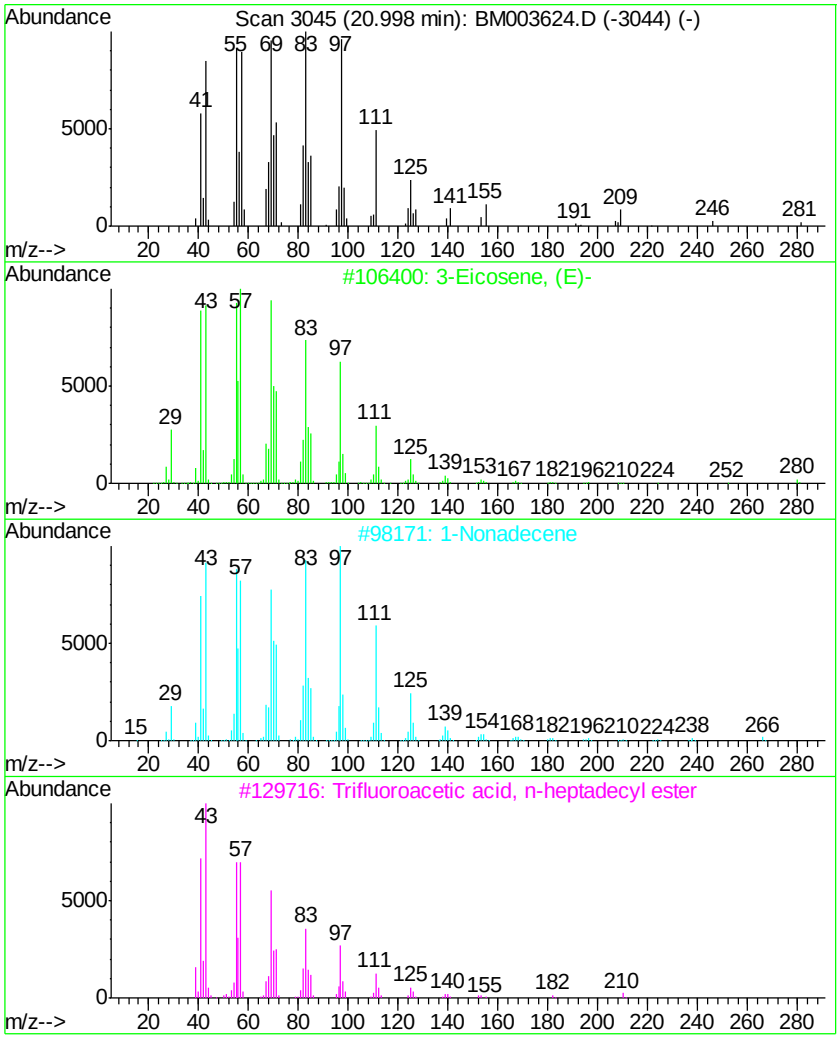
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.M
Quant Title : SVOA CALIBRATION

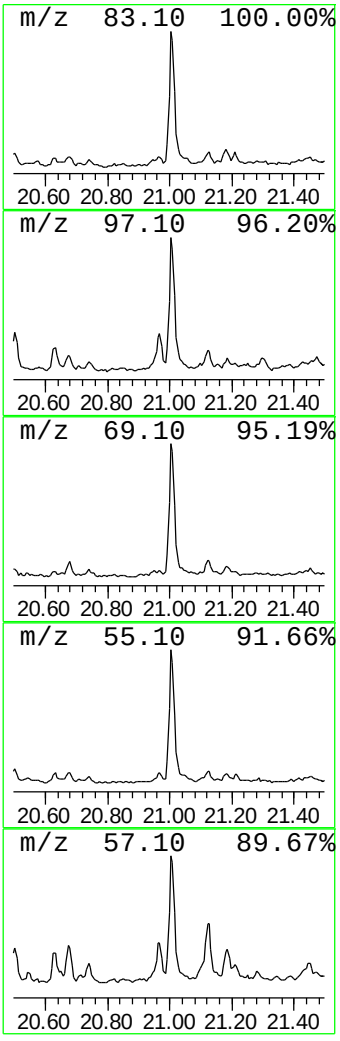
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	2.32 ng/ul	150811	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	91
2	1-Nonadecene	266	C19H38	018435-45-5	91
3	Trifluoroacetic acid, n-heptadec...	324	C17H31F3O2	1000216-79-2	90
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	86
5	Cyclohexadecane	224	C16H32	000295-65-8	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121915\
Data File : BM003624.D
Acq On : 19 Dec 2015 17:44
Operator : UM/SJ
Sample : G4801-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : G9C64

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM121915.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, 1,3-dime...	5.72	16.3	ng/ul	102207	1	7.70	125757	20.0
Benzene, 1-ethyl-...	6.79	10.0	ng/ul	62718	1	7.70	125757	20.0
Benzene, 1-ethyl-...	7.81	8.5	ng/ul	53705	1	7.70	125757	20.0
Indane	8.07	25.0	ng/ul	157379	1	7.70	125757	20.0
Indene	8.23	46.5	ng/ul	292403	1	7.70	125757	20.0
1H-Indene, 1-methyl-	9.92	13.4	ng/ul	187033	2	10.49	278175	20.0
Naphthalene, 1-me...	12.38	68.1	ng/ul	946874	2	10.49	278175	20.0
Naphthalene, 1-et...	13.37	9.3	ng/ul	231627	3	14.35	498913	20.0
Naphthalene, 2,7-...	13.51	8.3	ng/ul	206947	3	14.35	498913	20.0
Naphthalene, 2,3-...	13.67	18.7	ng/ul	466336	3	14.35	498913	20.0
Naphthalene, 2,6-...	13.94	2.0	ng/ul	51234	3	14.35	498913	20.0
Naphthalene, 2,3,...	14.83	4.2	ng/ul	105768	3	14.35	498913	20.0
1,1'-Biphenyl, 3-...	14.96	7.0	ng/ul	175935	3	14.35	498913	20.0
Naphthalene, 1,4,...	15.15	4.6	ng/ul	114745	3	14.35	498913	20.0
1H-Phenalene	15.22	2.7	ng/ul	66762	3	14.35	498913	20.0
unknown-01	15.61	3.0	ng/ul	73726	3	14.35	498913	20.0
Dibenzofuran, 4-m...	15.69	2.2	ng/ul	55934	3	14.35	498913	20.0
unknown-02	16.08	4.5	ng/ul	126693	4	17.10	560475	20.0
9H-Fluorene, 1-me...	16.40	5.3	ng/ul	148452	4	17.10	560475	20.0
9H-Fluorene, 2-me...	16.46	3.2	ng/ul	90431	4	17.10	560475	20.0
Dibenzothiophene	16.92	5.7	ng/ul	160521	4	17.10	560475	20.0
9H-Fluorene, 2,3-...	17.29	2.6	ng/ul	73734	4	17.10	560475	20.0
Dibenzothiophene,...	17.68	2.9	ng/ul	81655	4	17.10	560475	20.0
(DEL) Alkane: Str...	21.00	2.3	ng/ul	150811	5	21.30	1297350	20.0