LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

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\SOM-EPA-BM021418.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	4.681	284	288	296	rVB2	68603	120431	1.74%	0.167%
2	6.728	629	636	650	rVB2	310556	646732	9.36%	0.899%
3	6.875	656	661	669	rBV	240400	364624	5.28%	0.507%
4	7.063	687	693	702	rBV	391531	619938	8.97%	0.862%
5	7.522	759	771	781	rBV	475130	798057	11.55%	1.109%
6	7.645	786	792	801	rVB	74705	134789	1.95%	0.187%
7	8.251	887	895	904	rBV2	376563	696367	10.07%	0.968%
8	8.681	961	968	984	rBV	370114	681387	9.86%	0.947%
9	9.398	1083	1090	1104	rBV	324268	609480	8.82%	0.847%
10	9.710	1137	1143	1148	rVB3	108688	177474	2.57%	0.247%
11	9.939	1175	1182	1195	rBV	457465	885108	12.81%	1.230%
12	10.292	1232	1242	1247	rBV	643512	1068777	15.46%	1.485%
13	10.345	1247	1251	1256	rVB2	92016	150610	2.18%	0.209%
14	10.457	1259	1270	1278	rBV3	228376	565369	8.18%	0.786%
15	10.916	1342	1348	1357	rBV2	126141	248476	3.59%	0.345%
16	11.969	1521	1527	1533	rBV	56117	94146	1.36%	0.131%
17	12.198	1560	1566	1573	rVB2	44517	84417	1.22%	0.117%
18	12.992	1695	1701	1710	rBV7	29584	71269	1.03%	0.099%
19	13.498	1778	1787	1791	rBV2	60761	112926	1.63%	0.157%
20	13.604	1799	1805	1809	rBV	918194	1247283	18.04%	1.734%
21	13.651	1809	1813	1818	rVB	453942	593173	8.58%	0.824%
22	13.869	1844	1850	1862	rBV2	1016720	1831247	26.49%	2.545%
23	14.080	1881	1886	1891	rBV2	70409	100966	1.46%	0.140%
24	14.180	1895	1903	1909	rVV2	874206	1352945	19.57%	1.880%
25	14.245	1909	1914	1918	rVB2	104402	145654	2.11%	0.202%
26	14.463	1946	1951	1961	rBV2	197291	465037	6.73%	0.646%
27	14.592	1967	1973	1977	rBV	116801	178873	2.59%	0.249%
28	14.804	2001	2009	2015	rBV7	43996	94423	1.37%	0.131%
29	14.863	2015	2019	2030	rVB4	34809	78412	1.13%	0.109%
30	14.980	2033	2039	2042	rVV7	46261	97288	1.41%	0.135%
31	15.039	2044	2049	2058	rVB4	86006	184537	2.67%	0.256%
32	15.186	2068	2074	2079	rBV	1265710	1802155	26.07%	2.505%
33	15.239	2079	2083	2088	rVB3	142421	214249	3.10%	0.298%
34	15.357	2097	2103	2108	rBV6	66042	121526	1.76%	0.169%

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Misc :
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Instrument : BNA_M
ClientSampleId : BE609

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

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Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

35	15.539	2128	2134	2142	rBV2	72181	137230	1.99%	0.191%
36	15.686	2155	2159	2167	rVB3	71691	129650	1.88%	0.180%
37	15.910	2192	2197	2212	rVB5	110068	268061	3.88%	0.373%
38	16.116	2226	2232	2244	rBV	582977	941995	13.63%	1.309%
39	16.251	2253	2255	2260	rVB5	65331	75421	1.09%	0.105%
40	16.363	2269	2274	2285	rVB9	141897	280004	4.05%	0.389%
41	16.480	2290	2294	2297	rBV3	51875	74793	1.08%	0.104%
42	16.515	2297	2300	2305	rVB2	74560	91245	1.32%	0.127%
43	16.610	2312	2316	2322	rVB	142532	220835	3.19%	0.307%
44	16.698	2322	2331	2335	rBV6	100703	254645	3.68%	0.354%
45	16.757	2337	2341	2350	rVB	152052	259025	3.75%	0.360%
46	16.945	2367	2373	2376	rBV	1023296	1446095	20.92%	2.010%
47	16.986	2376	2380	2385	rVV	2519707	3284153	47.51%	4.565%
48	17.045	2385	2390	2393	rVV	1325089	1922358	27.81%	2.672%
49	17.074	2393	2395	2401	rVB	416824	532311	7.70%	0.740%
50	17.145	2401	2407	2410	rBV4	109329	188499	2.73%	0.262%
51	17.363	2437	2444	2453	rBV2	209159	385373	5.58%	0.536%
52	17.439	2454	2457	2459	rBV4	55791	72852	1.05%	0.101%
53	17.533	2470	2473	2480	rVB8	79566	133016	1.92%	0.185%
54	17.821	2517	2522	2524	rBV	393821	545687	7.89%	0.758%
55	17.862	2524	2529	2536	rVB2	748706	1437587	20.80%	1.998%
56	17.945	2541	2543	2548	rVV	189214	272136	3.94%	0.378%
57	18.010	2549	2554	2559	rVV3	530205	1023868	14.81%	1.423%
58	18.051	2559	2561	2566	rVB	314192	376898	5.45%	0.524%
59	18.221	2586	2590	2595	rVB7	132899	236480	3.42%	0.329%
60	18.327	2604	2608	2613	rBV	287486	430625	6.23%	0.599%
61	18.380	2614	2617	2622	rVV	317055	441420	6.39%	0.614%
62	18.780	2681	2685	2693	rVB	2103760	2755637	39.87%	3.830%
63	19.021	2720	2726	2731	rBV	4325913	5665511	81.96%	7.875%
64	19.145	2745	2747	2750	rBV2	192821	206378	2.99%	0.287%
65	19.356	2778	2783	2784	rBV2	1941324	2596586	37.57%	3.609%
66	19.386	2784	2788	2796	rVB	4894728	6912172	100.00%	9.607%
67	19.456	2797	2800	2804	rBV3	224082	330134	4.78%	0.459%
68	19.986	2887	2890	2892	rBV	300892	341769	4.94%	0.475%
69	20.280	2936	2940	2946	rBV6	575765	1031095	14.92%	1.433%
70	20.645	2999	3002	3007	rVB	385588	429516	6.21%	0.597%
71	20.768	3020	3023	3026	rBV	430438	570612	8.26%	0.793%

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Instrument : BNA_M
ClientSampleId : BE609

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\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

72	20.874	3038	3041	3047	rVB3	739248	928394	13.43%	1.290%
73	21.145	3083	3087	3093	rBV2	2326948	4492880	65.00%	6.245%
74	21.198	3093	3096	3100	rVB	2083829	2371888	34.31%	3.297%
75	21.698	3177	3181	3185	rBV	2077703	2555217	36.97%	3.552%
76	22.697	3347	3351	3355	rBV	1384140	2563940	37.09%	3.564%
77	23.156	3425	3429	3433	rBV	800383	1353803	19.59%	1.882%
78	23.203	3433	3437	3441	rVV2	1095921	1953618	28.26%	2.715%
79	23.250	3441	3445	3454	rVB	1634259	2787932	40.33%	3.875%

Sum of corrected areas: 71947489

LSC Report - Integrated Chromatogram

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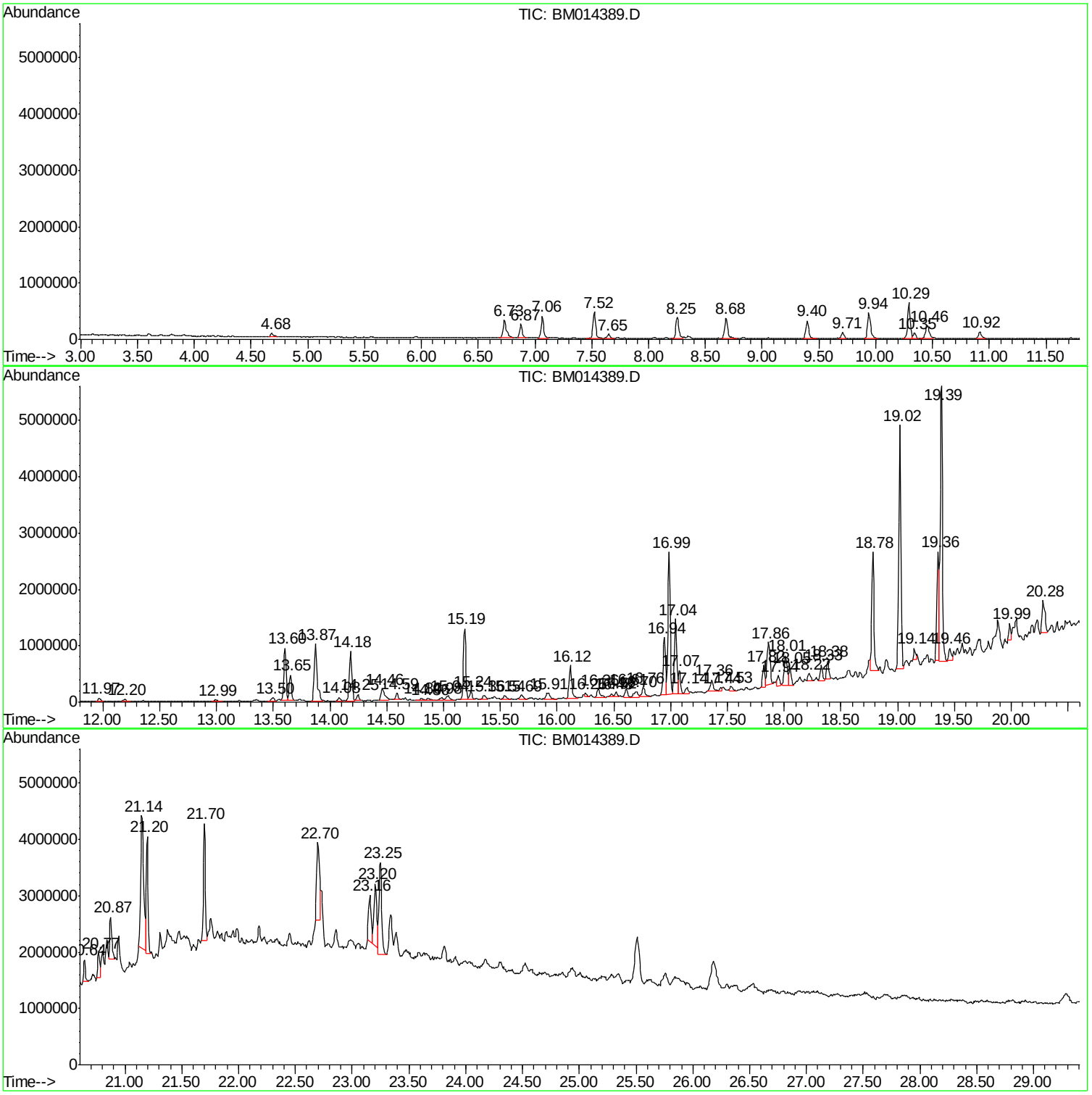
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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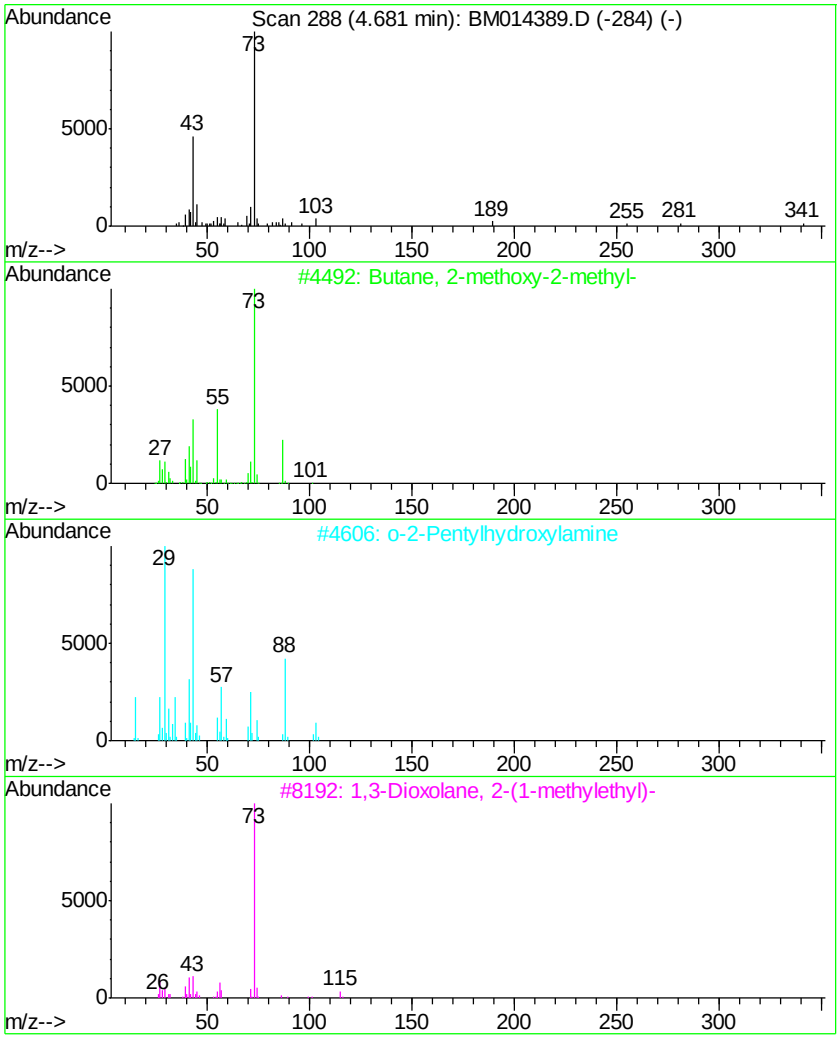
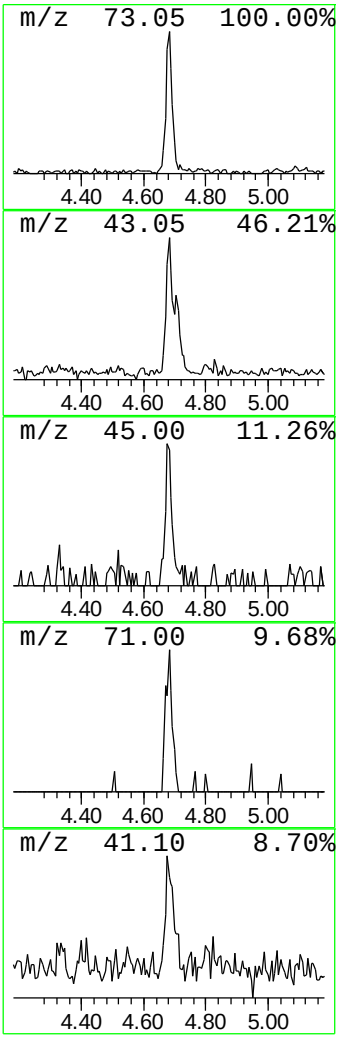
Peak Number 1 unknown-01 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.68	3.02 ng/ul	120431	1,4-Dichlorobenzene-d4	7.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	37
2	o-2-Pentylhydroxylamine	103	C5H13NO	1000322-43-4	16
3	1,3-Dioxolane, 2-(1-methylethyl)-	116	C6H12O2	000822-83-3	12
4	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	10
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9





Library Search Compound Report

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Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

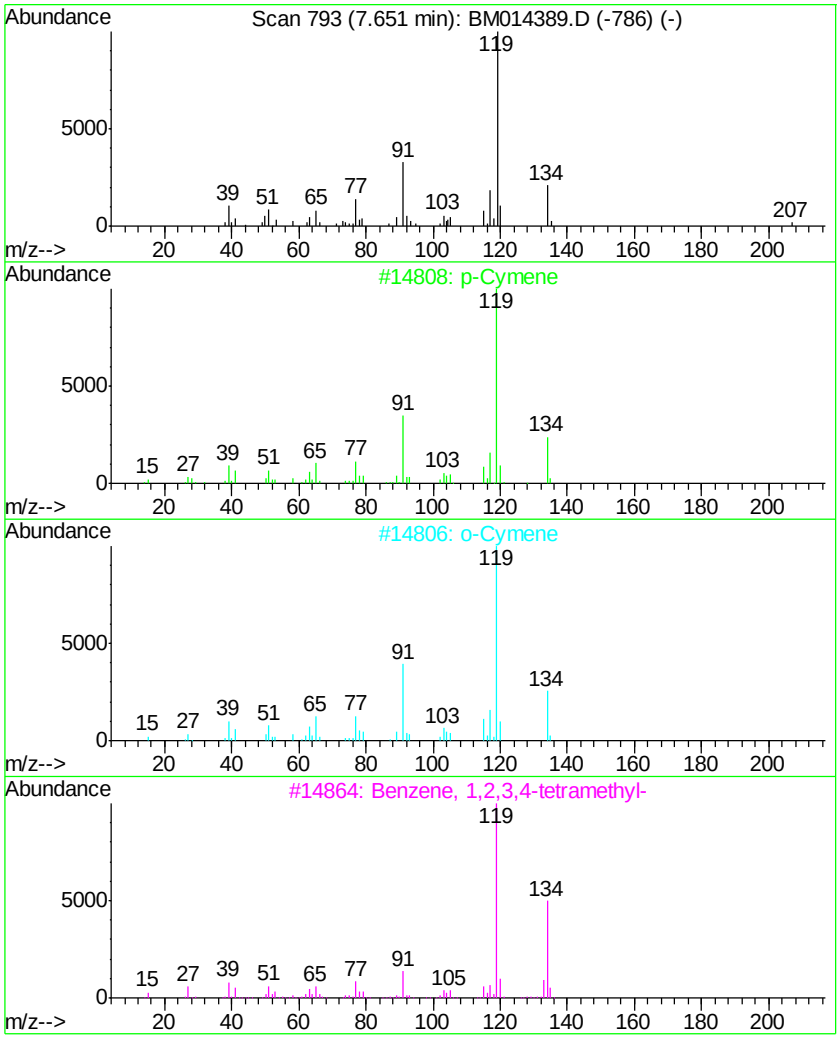
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

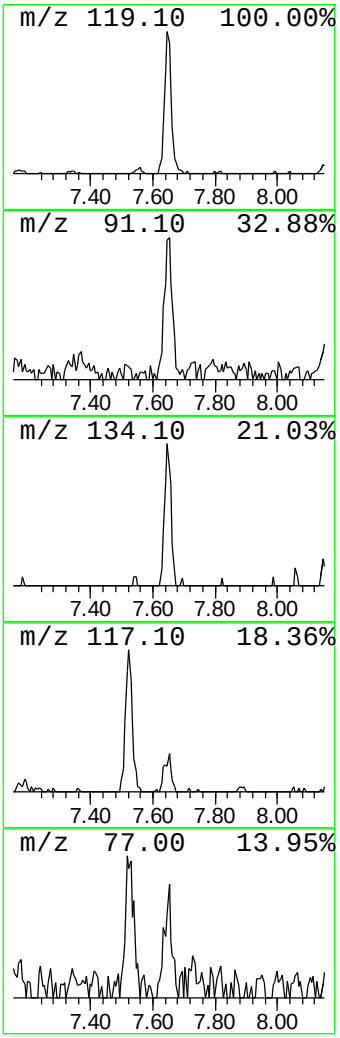
****

Peak Number 2 p-Cymene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.65	3.38 ng/ul	134789	1,4-Dichlorobenzene-d4	7.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





Library Search Compound Report

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Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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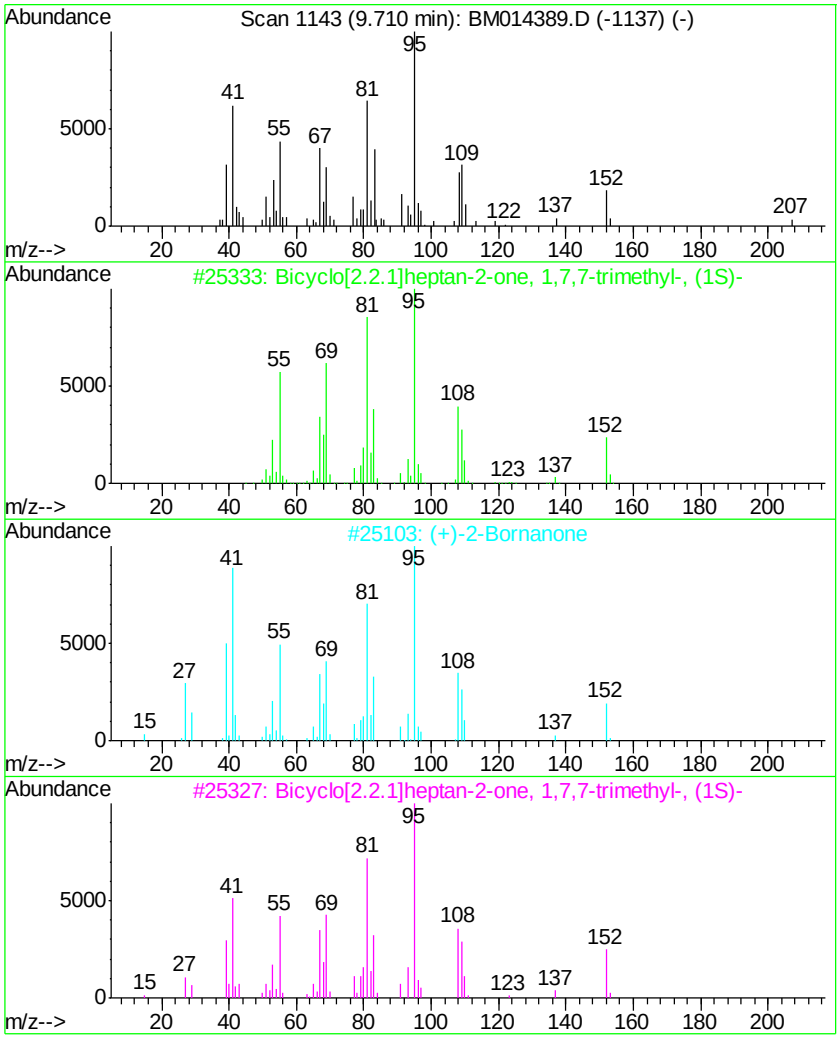
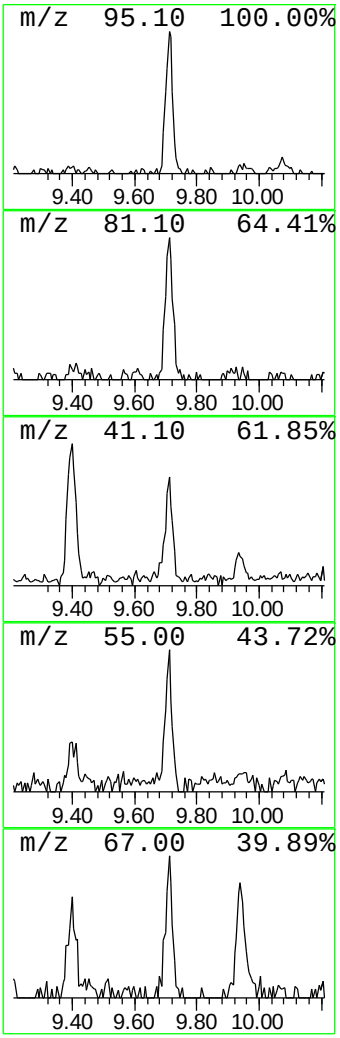
****

Peak Number 3 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.71	3.32 ng/ul	177474	Naphthalene-d8	10.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	87
2	(+)-2-Bornanone	152	C10H16O	000464-49-3	78
3	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	74
4	Camphor	152	C10H16O	000076-22-2	64
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	52





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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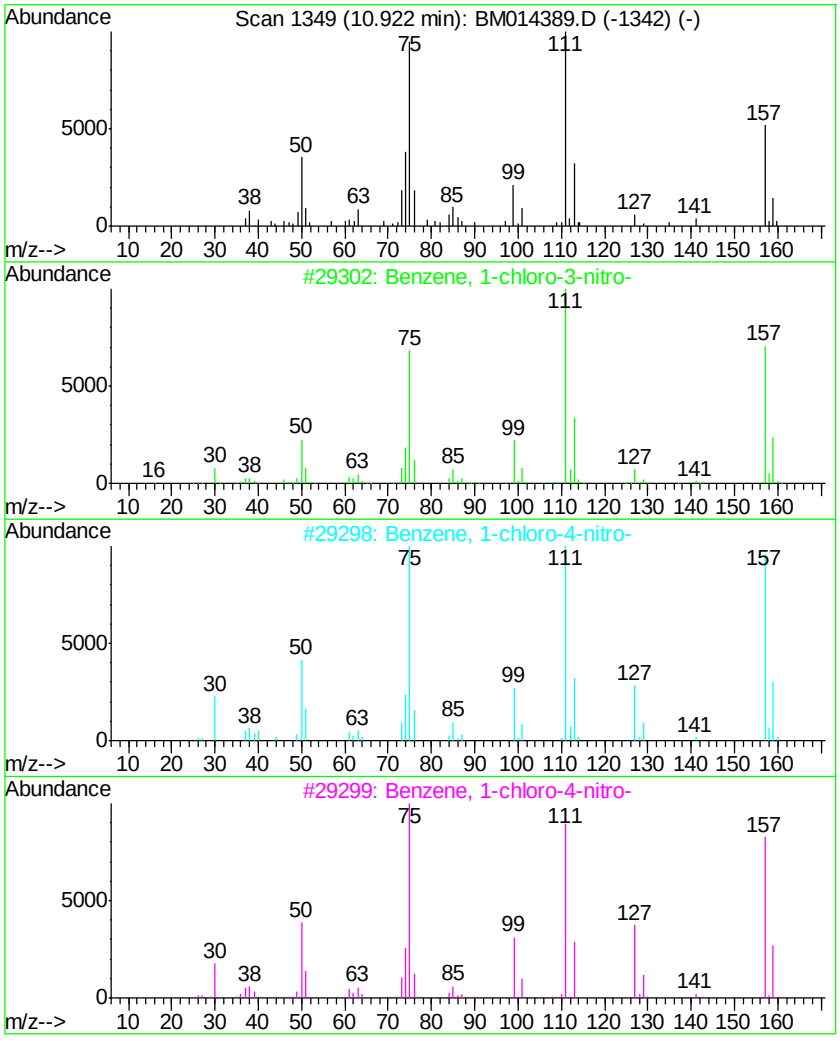
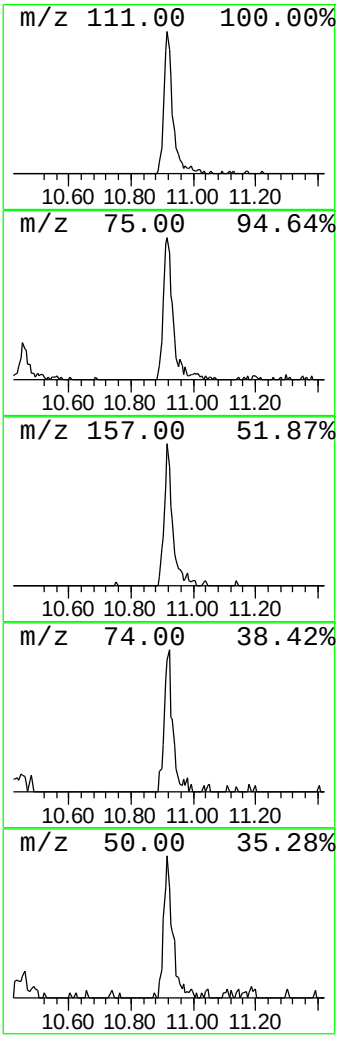
Peak Number 4 Benzene, 1-chloro-3-nitro- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	4.65 ng/ul	248476	Naphthalene-d8	10.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-chloro-3-nitro-	157	C6H4ClNO2	000121-73-3	97
2	Benzene, 1-chloro-4-nitro-	157	C6H4ClNO2	000100-00-5	94
3	Benzene, 1-chloro-4-nitro-	157	C6H4ClNO2	000100-00-5	94
4	Benzene, 1-chloro-2-nitro-	157	C6H4ClNO2	000088-73-3	90
5	Benzene, 1-chloro-3-nitro-	157	C6H4ClNO2	000121-73-3	64





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Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

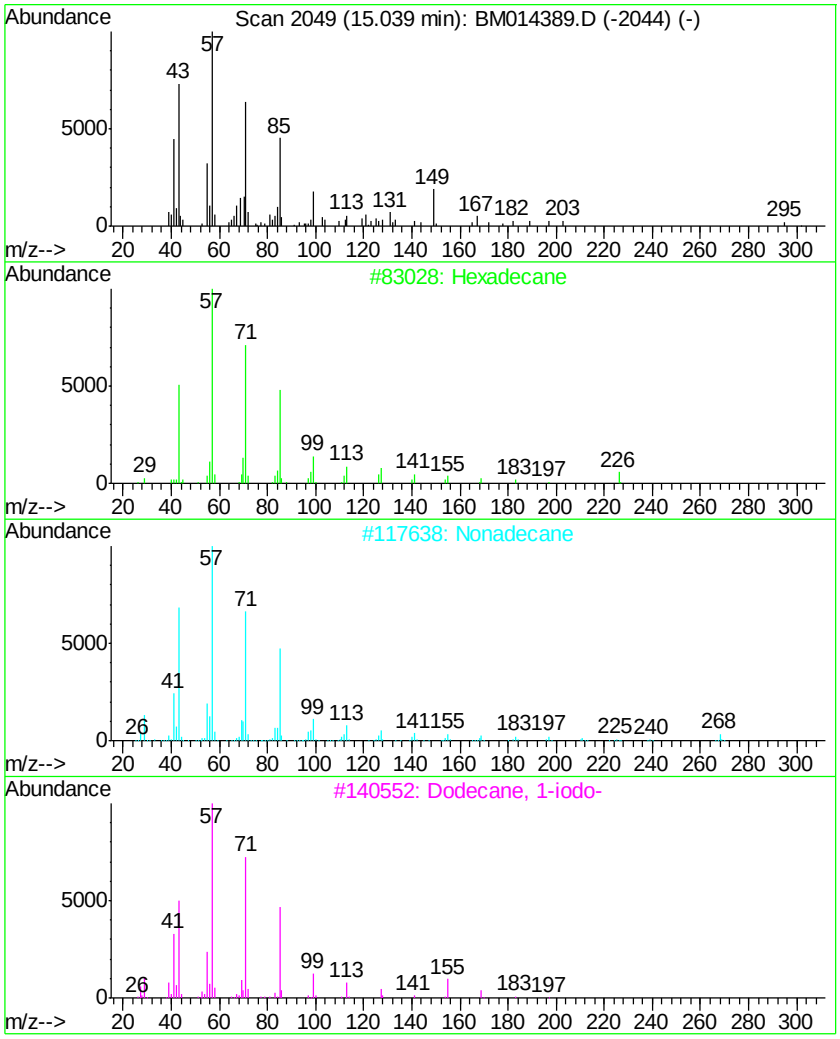
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

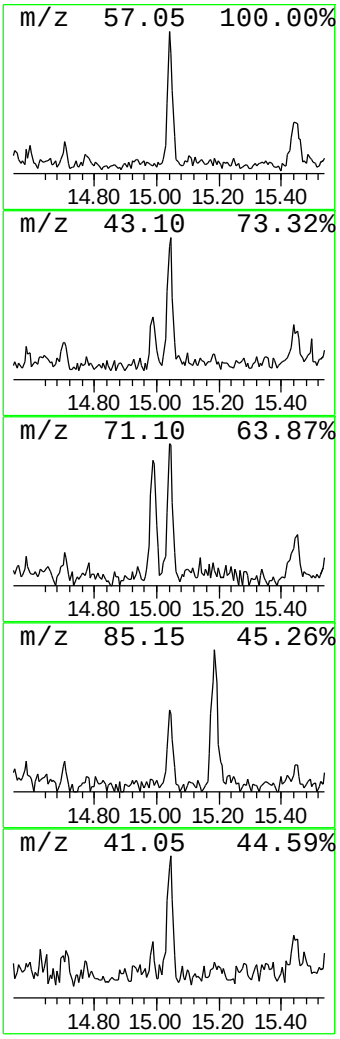
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	2.73 ng/ul	184537	Acenaphthene-d10	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	64
2	Nonadecane	268	C19H40	000629-92-5	64
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	59
4	Undecane, 5-ethyl-5-propyl-	226	C16H34	002755-07-9	59
5	1-Iodoundecane	282	C11H23I	004282-44-4	59





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Data File : BM014389.D
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Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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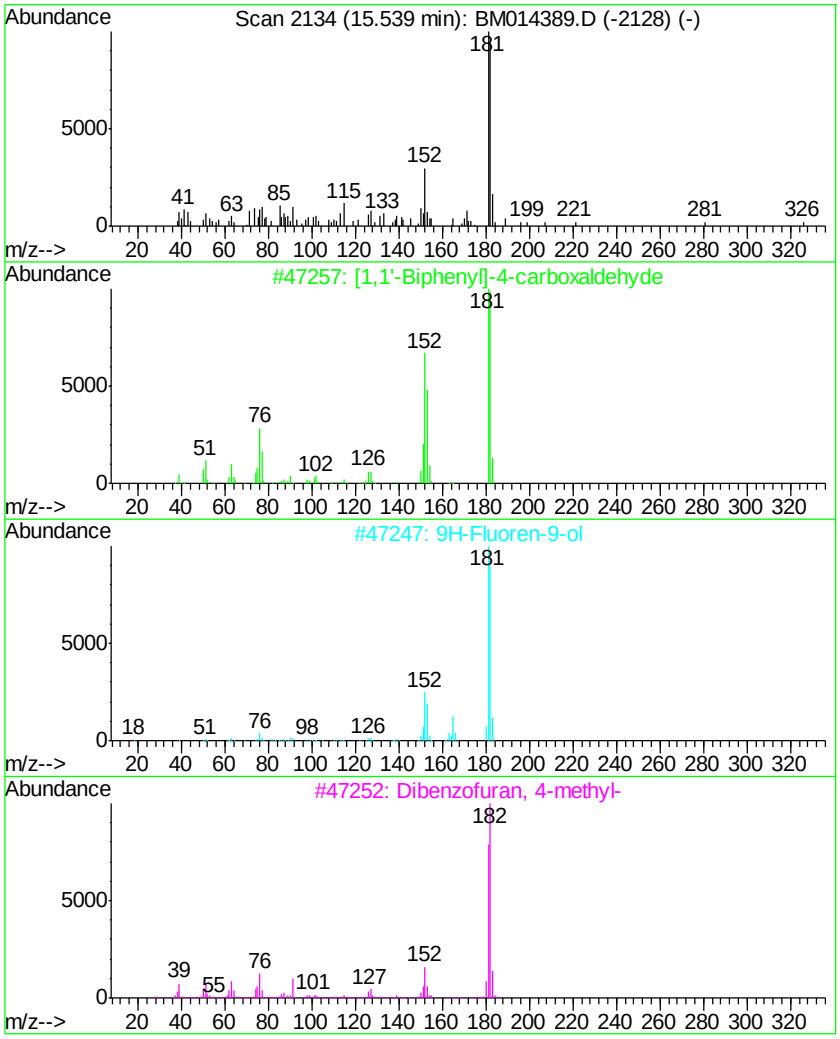
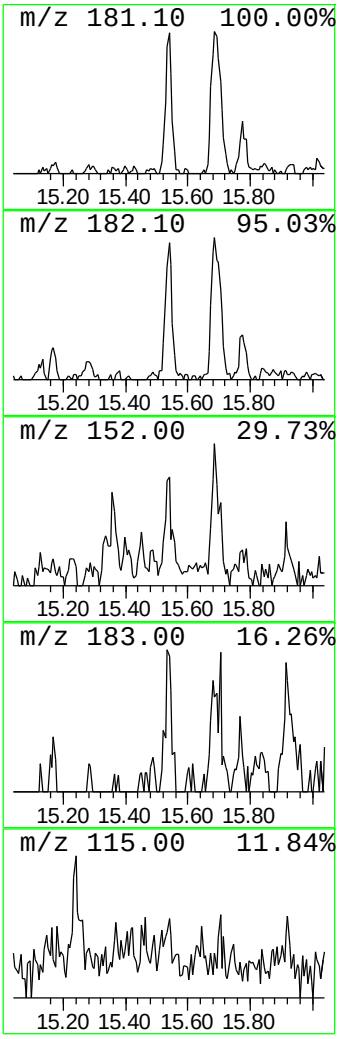
Peak Number 6 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	2.03 ng/ul	137230	Acenaphthene-d10	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	80
4	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64
5	3-(1-Naphthyl)acrylaldehyde	182	C13H10O	001504-73-0	64





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Operator : SJ/JU
Sample : J1631-11
Misc :
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ClientSampleId : BE609

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Quant Title : SVOA CALIBRATION

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

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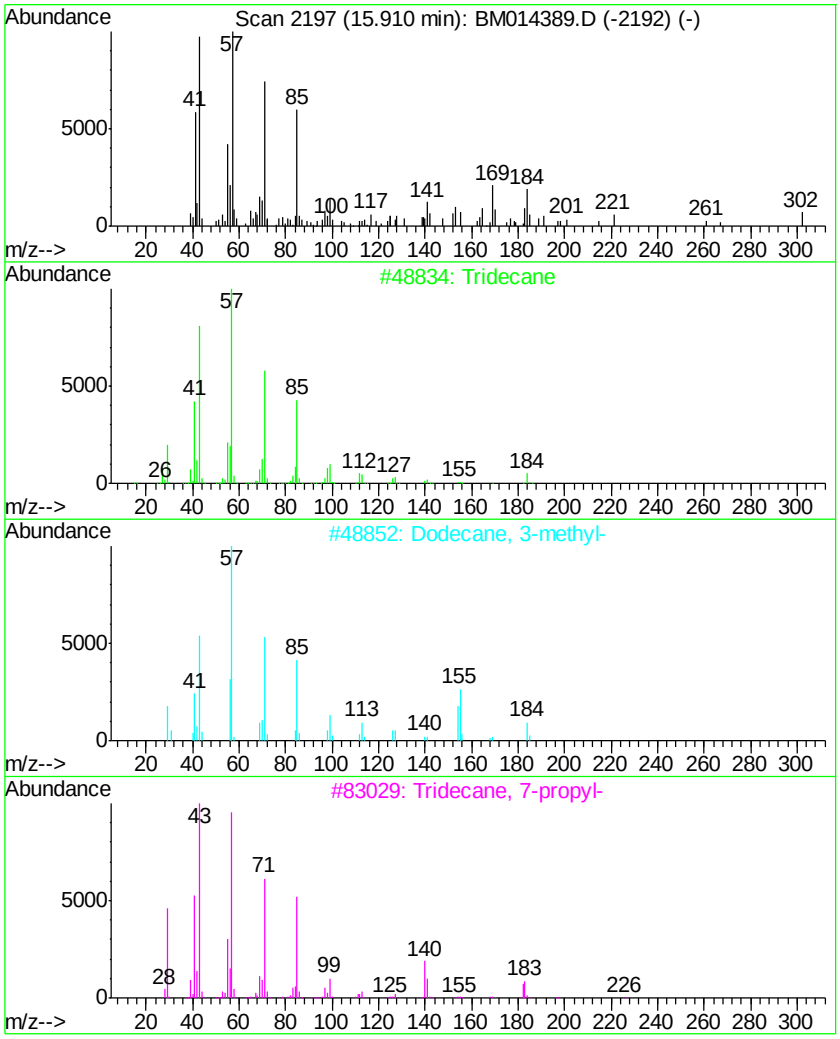
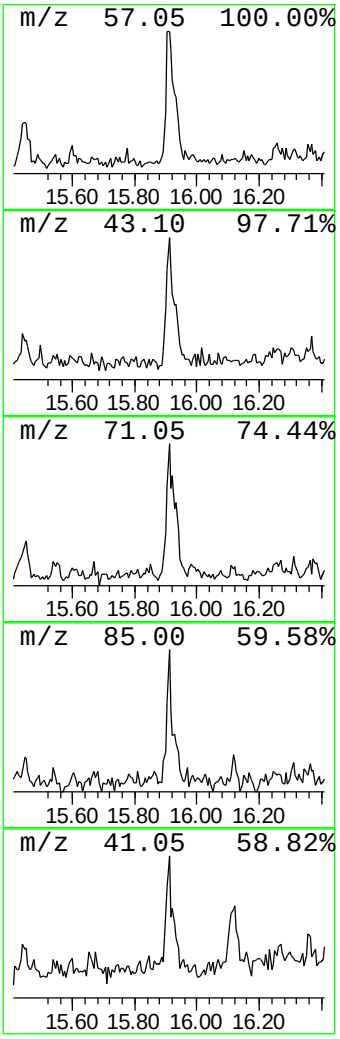
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	3.71 ng/ul	268061	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	70
2	Dodecane, 3-methyl-	184	C13H28	017312-57-1	58
3	Tridecane, 7-propyl-	226	C16H34	055045-09-5	52
4	Heneicosane	296	C21H44	000629-94-7	49
5	Decane, 1-iodo-	268	C10H21I	002050-77-3	47





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Quant Title : SVOA CALIBRATION

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

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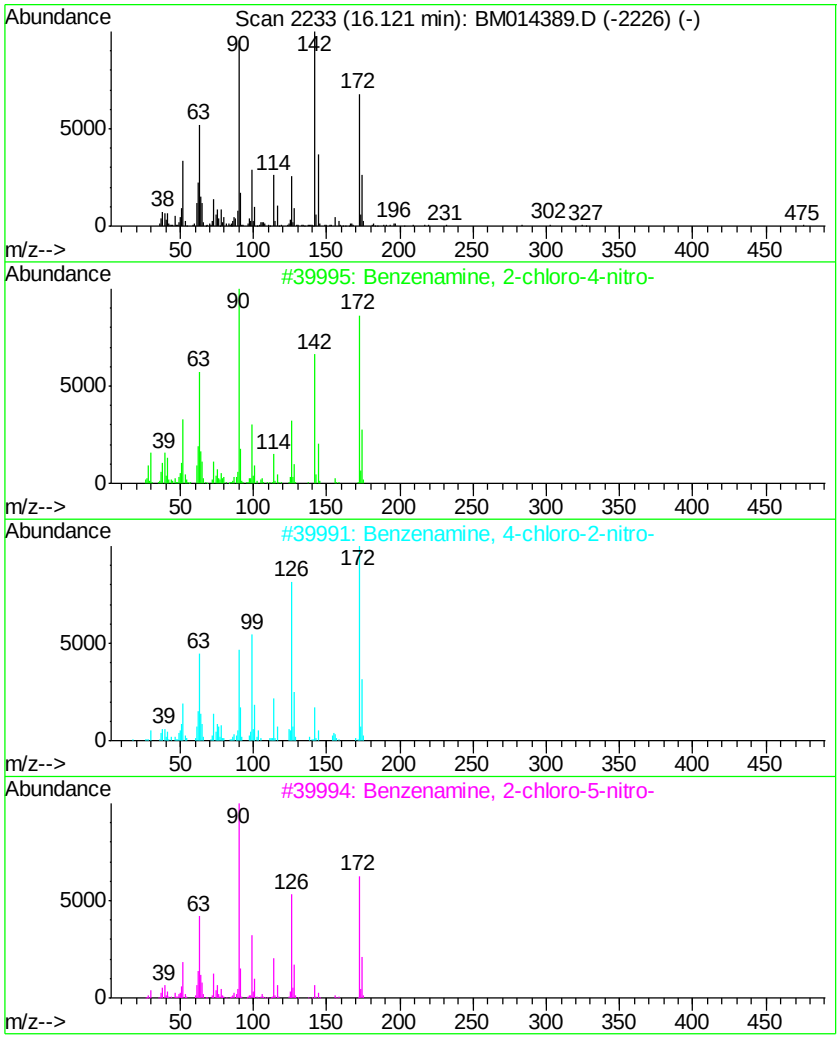
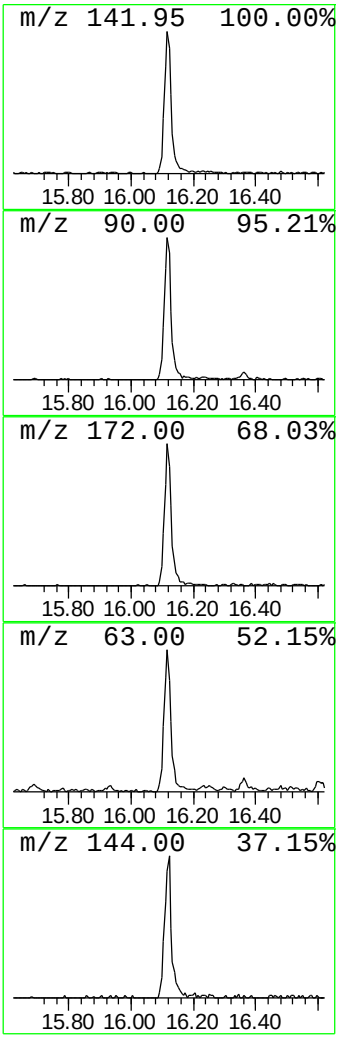
Peak Number 8 Benzenamine, 2-chloro-4-nitro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	13.03 ng/ul	941995	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-chloro-4-nitro-	172	C6H5ClN2O2	000121-87-9	96
2	Benzenamine, 4-chloro-2-nitro-	172	C6H5ClN2O2	000089-63-4	86
3	Benzenamine, 2-chloro-5-nitro-	172	C6H5ClN2O2	006283-25-6	55
4	Benzene, 1-azido-3-bromo-	197	C6H4BrN3	002101-89-5	47
5	Benzenamine, 3-chloro-4-nitro-	172	C6H5ClN2O2	000825-41-2	46





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Quant Title : SVOA CALIBRATION

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

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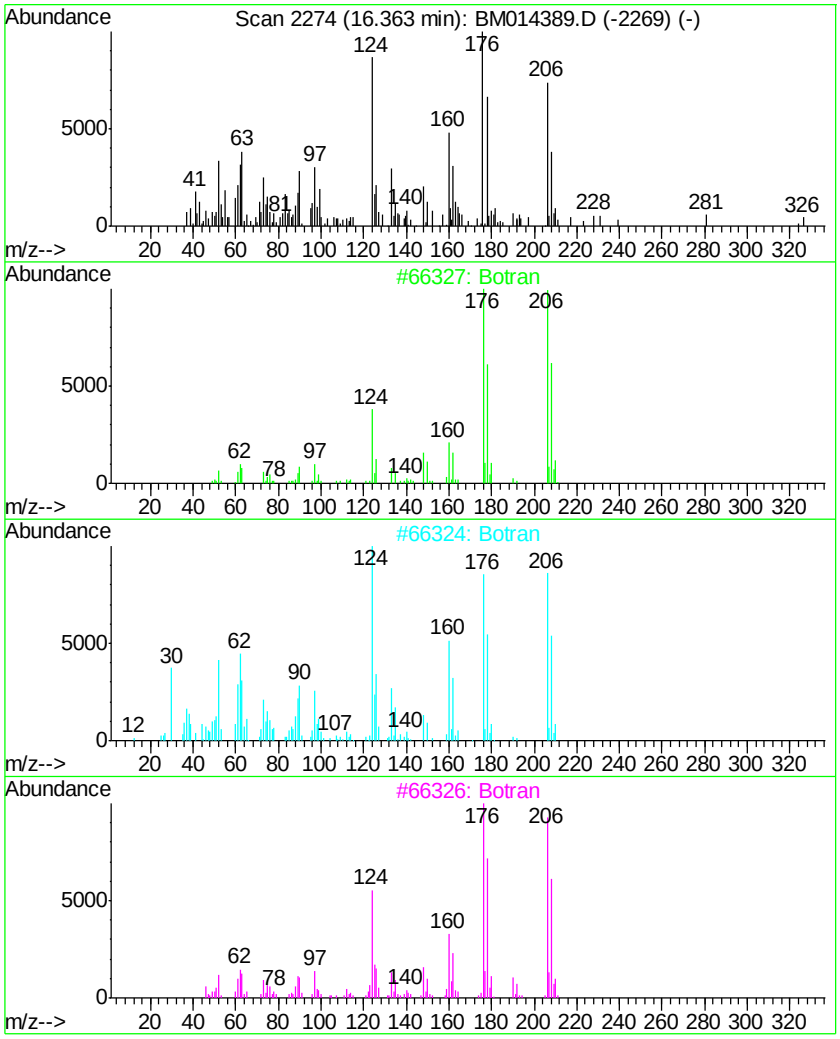
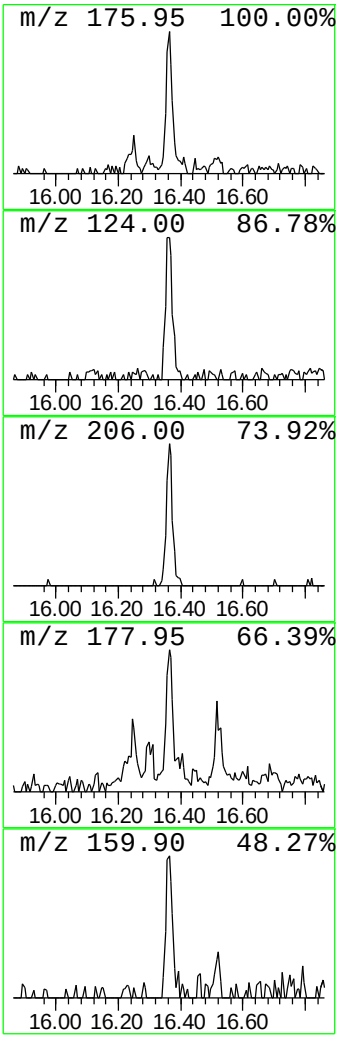
Peak Number 9 Botran Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.36	3.87 ng/ul	280004	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Botran	206	C6H4Cl2N2O2	000099-30-9	90
2	Botran	206	C6H4Cl2N2O2	000099-30-9	83
3	Botran	206	C6H4Cl2N2O2	000099-30-9	83
4	2,4-Dichloro-6-nitroaniline	206	C6H4Cl2N2O2	002683-43-4	78
5	Botran	206	C6H4Cl2N2O2	000099-30-9	60





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Quant Title : SVOA CALIBRATION

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

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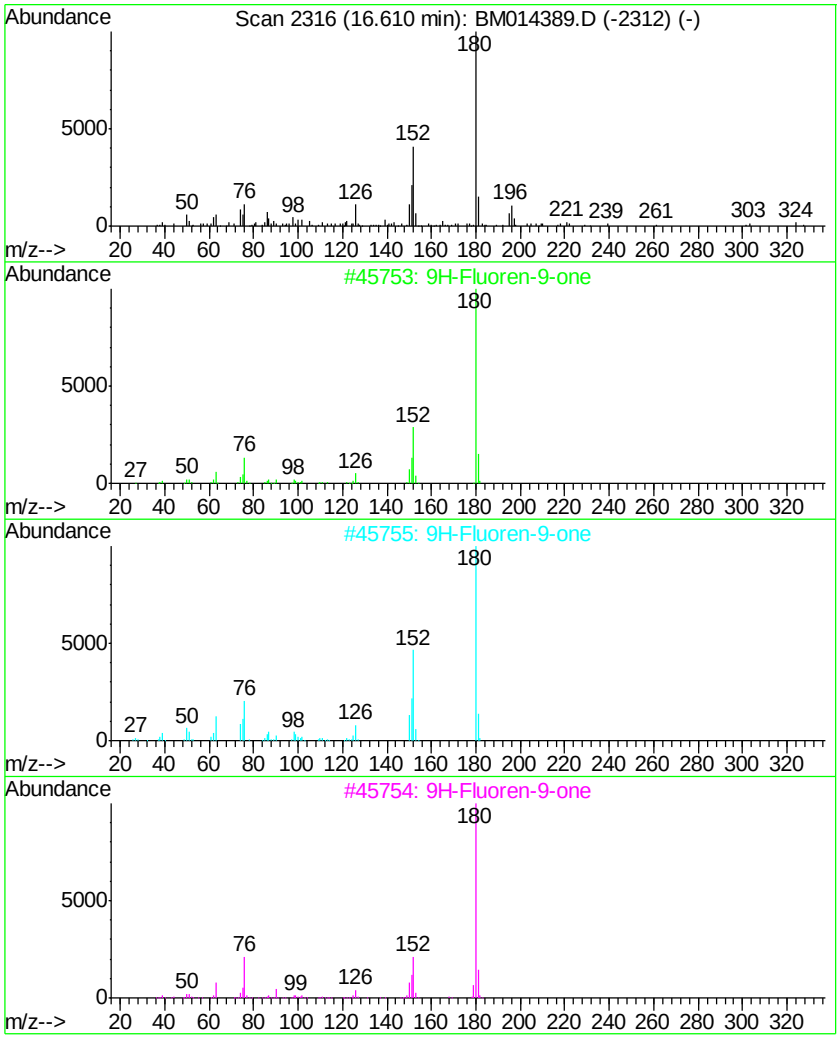
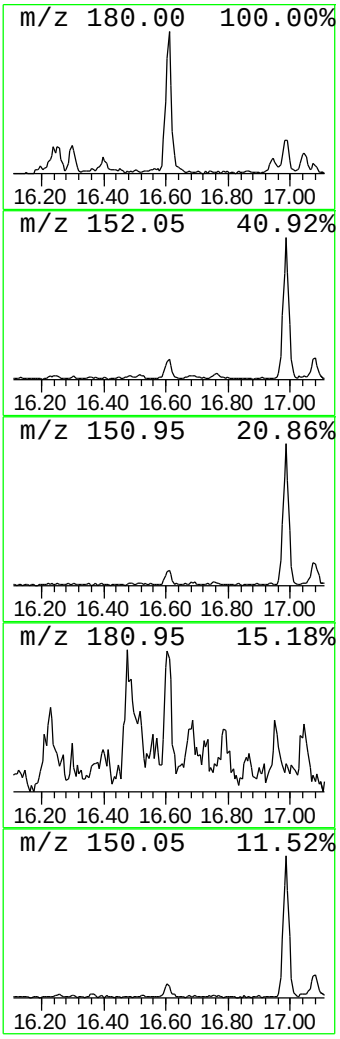
Peak Number 10 9H-Fluoren-9-one Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.61	3.05 ng/ul	220835	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
5	9,9-Bis[4-aminophenylsulfonyl]fl...	476	C25H20N2O4S2	081269-16-1	72





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Quant Title : SVOA CALIBRATION

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

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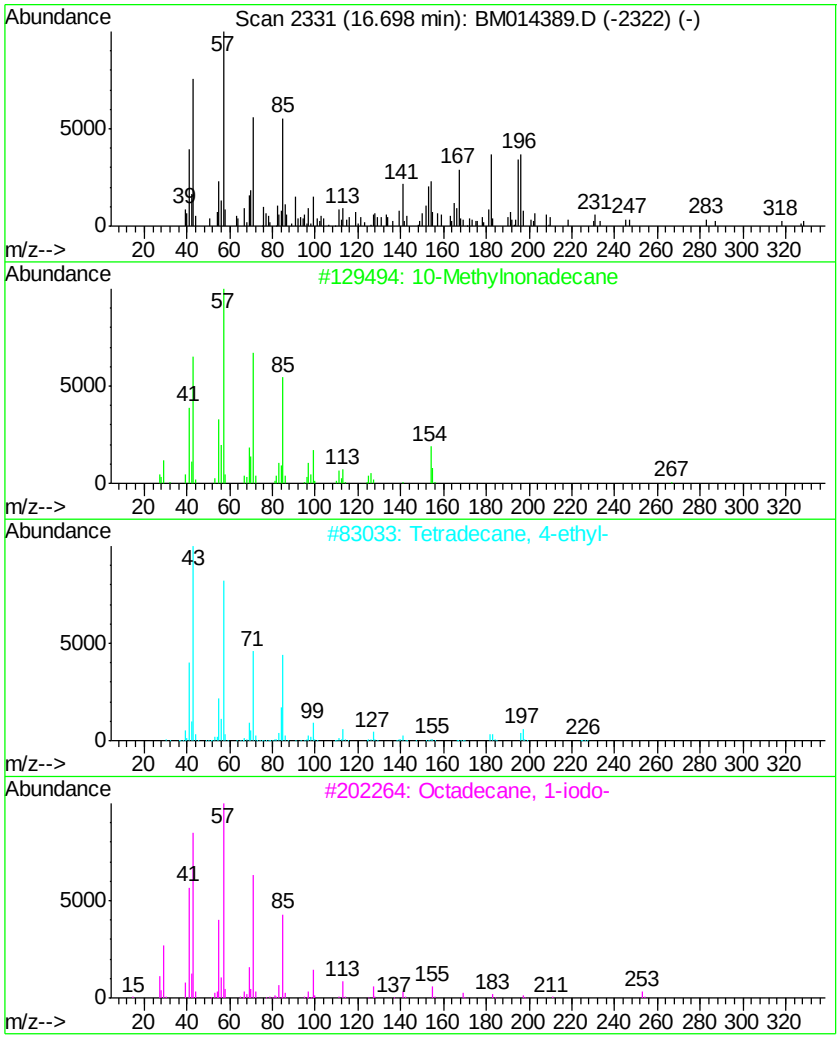
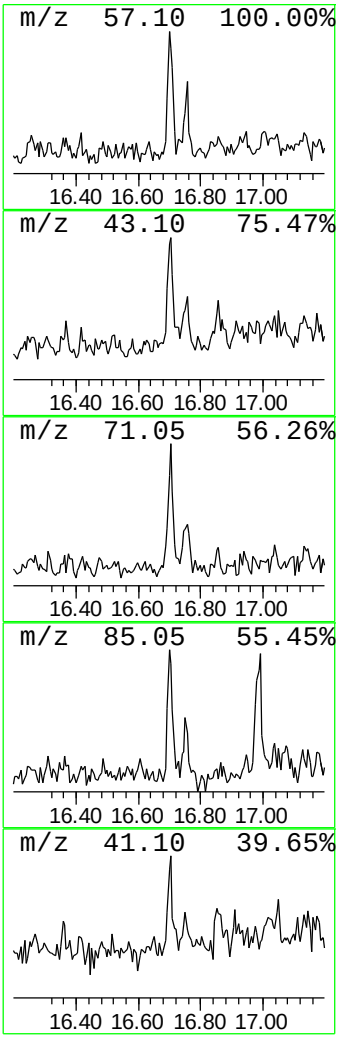
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	3.52 ng/ul	254645	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylnonadecane	282	C20H42	056862-62-5	38
2	Tetradecane, 4-ethyl-	226	C16H34	055045-14-2	27
3	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	25
4	Hexacosane	366	C26H54	000630-01-3	25
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	22





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Quant Title : SVOA CALIBRATION

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

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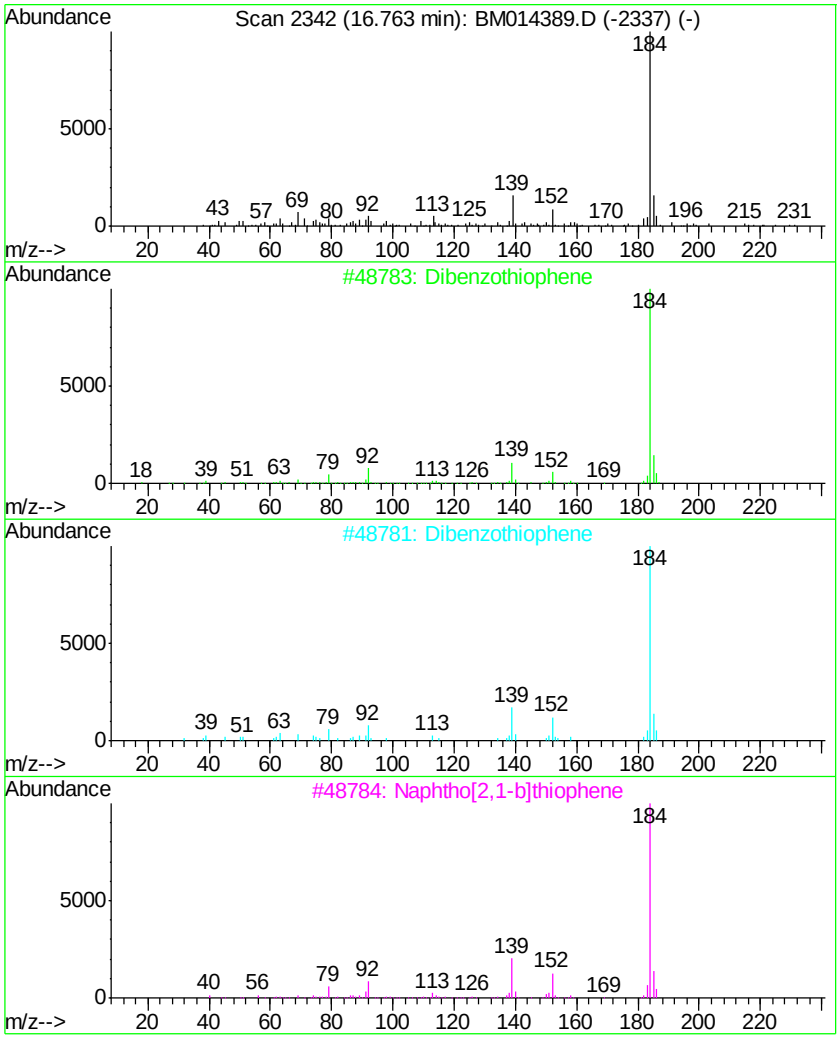
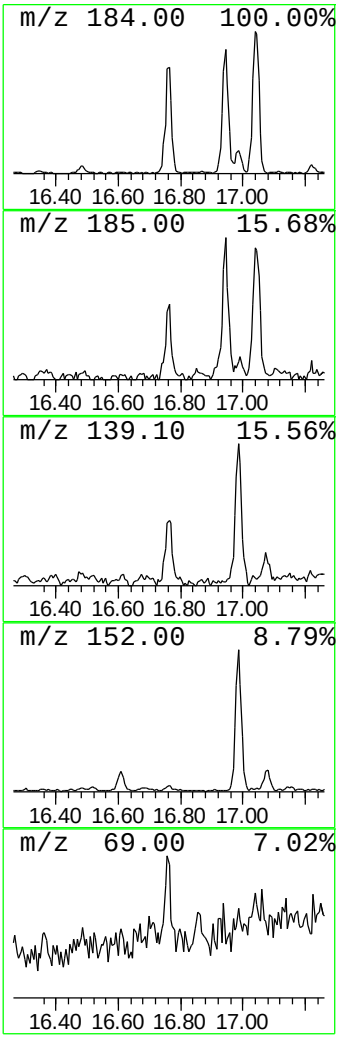
Peak Number 12 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	3.58 ng/ul	259025	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	90
2	Dibenzothiophene	184	C12H8S	000132-65-0	90
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	83
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	83
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	83





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Quant Title : SVOA CALIBRATION

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

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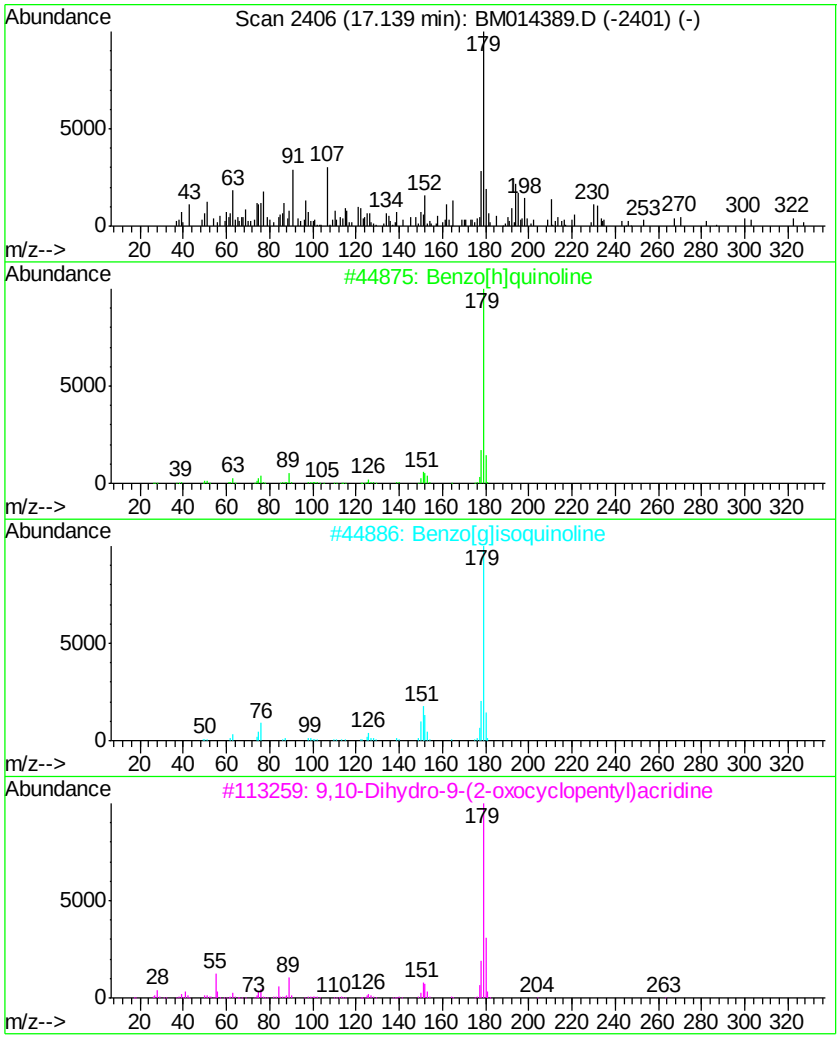
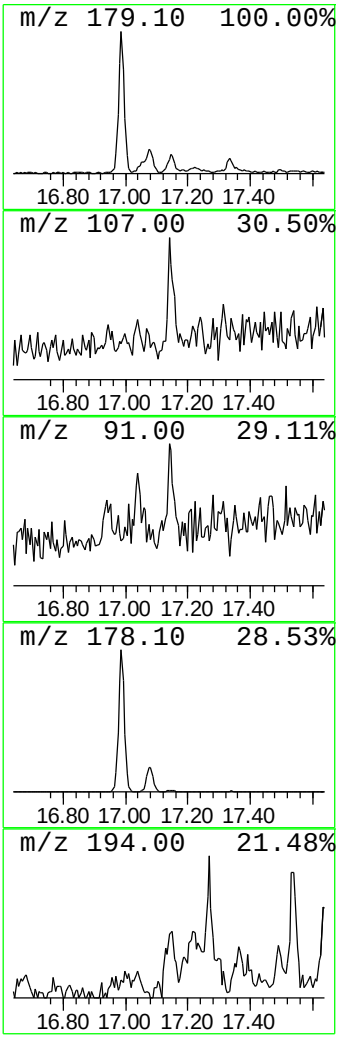
Peak Number 13 Benzo[h]quinoline Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.14	2.61 ng/ul	188499	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[h]quinoline	179	C13H9N	000230-27-3	58
2	Benzo[g]isoquinoline	179	C13H9N	000260-32-2	58
3	9,10-Dihydro-9-(2-oxocyclopentyl...	263	C18H17NO	015539-19-2	53
4	Phenanthridine	179	C13H9N	000229-87-8	52
5	Phenanthridine	179	C13H9N	000229-87-8	52





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

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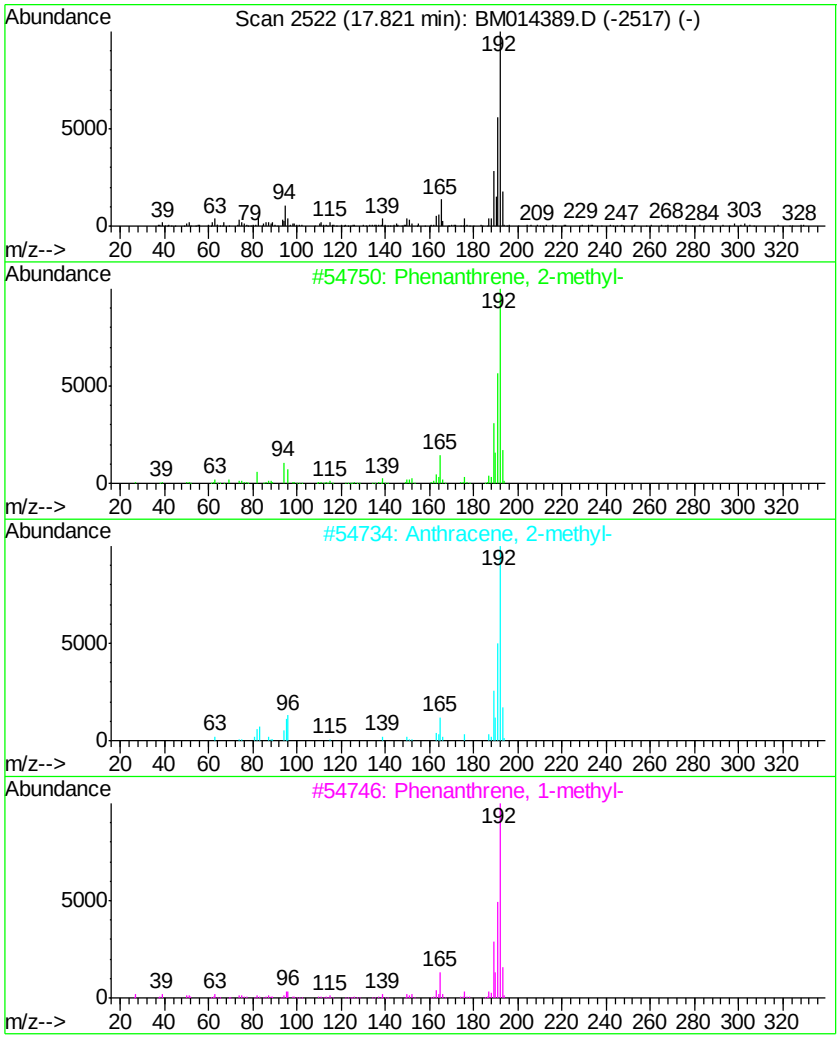
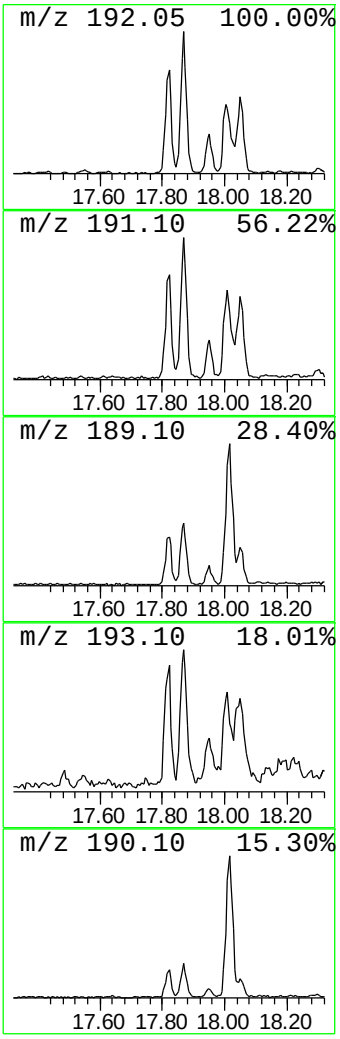
Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	7.55 ng/ul	545687	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86





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Quant Title : SVOA CALIBRATION

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

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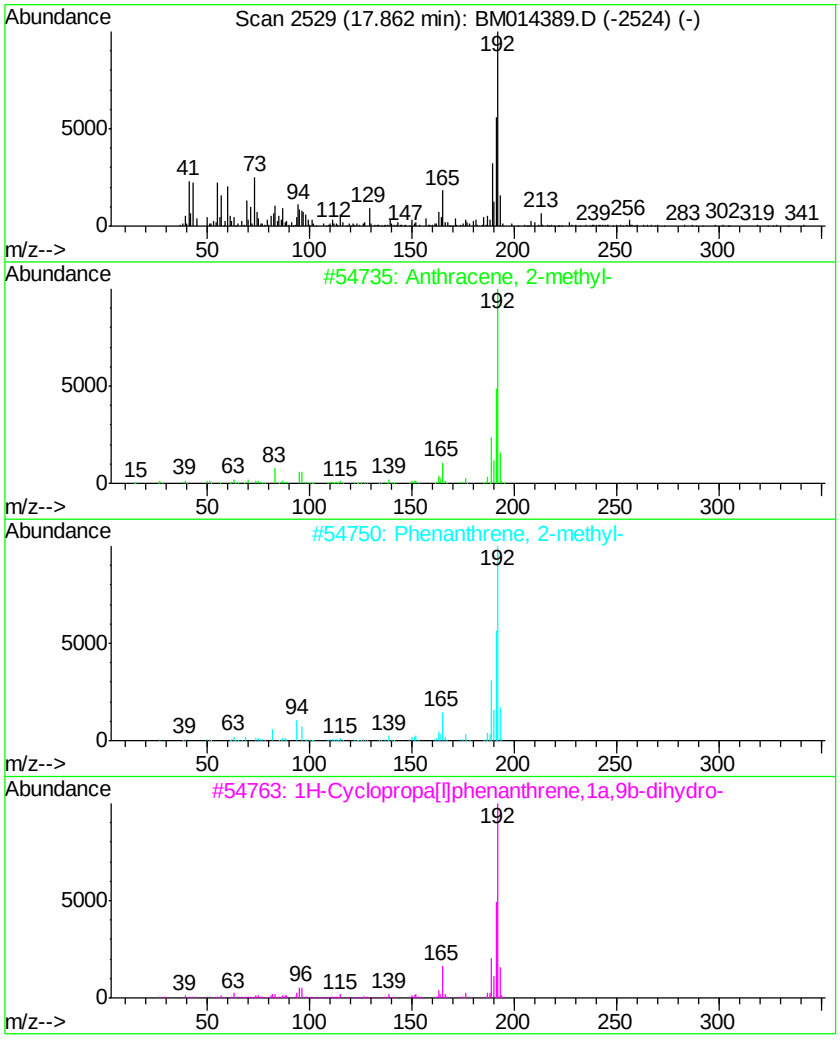
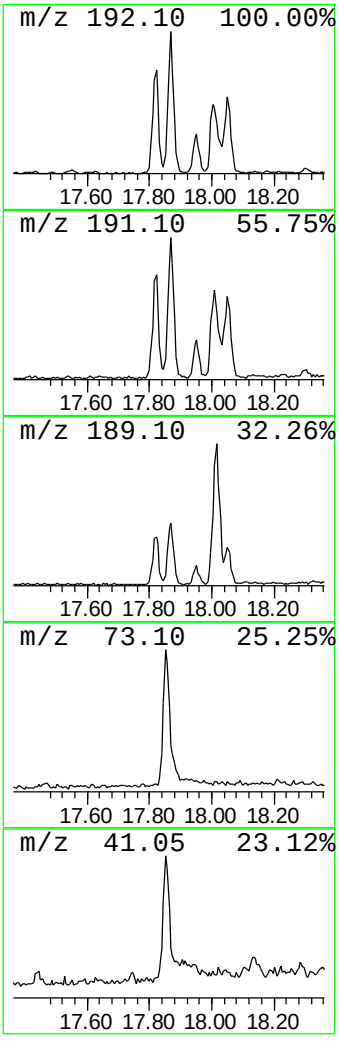
Peak Number 15 Anthracene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	19.88 ng/ul	1437590	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	92
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90





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Quant Title : SVOA CALIBRATION

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

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Peak Number 16 Naphtho[2,3-b]norbornadiene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	3.76 ng/ul	272136	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
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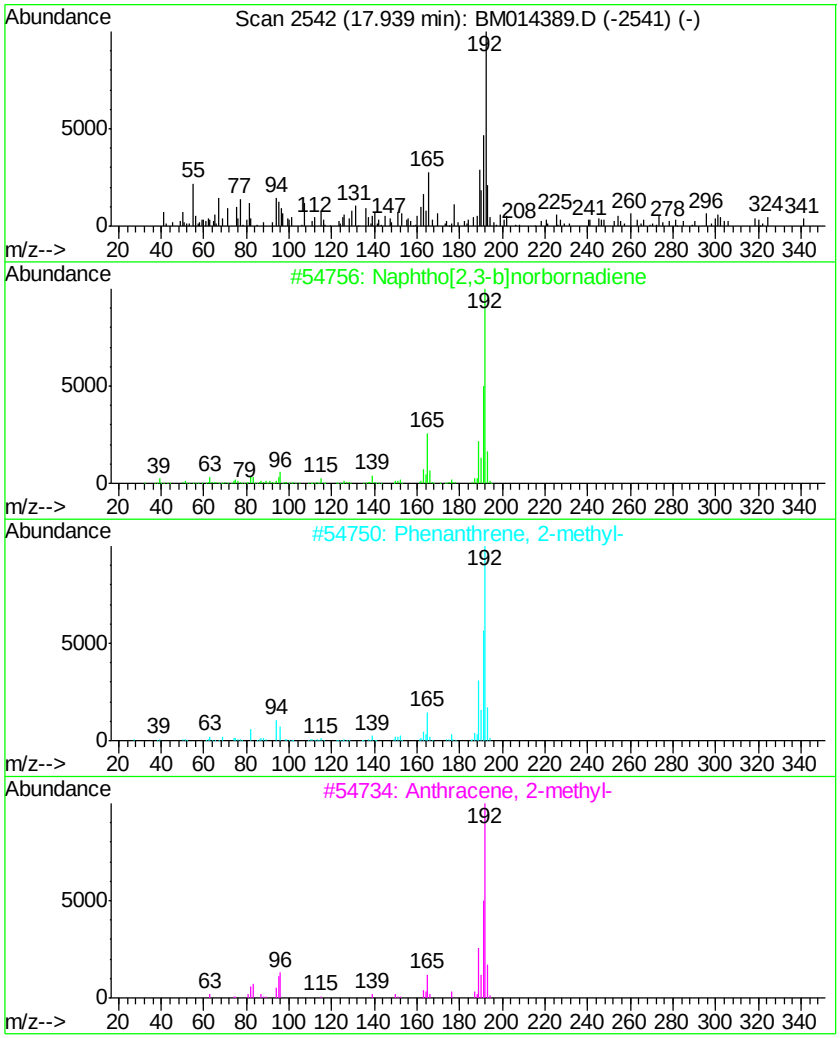

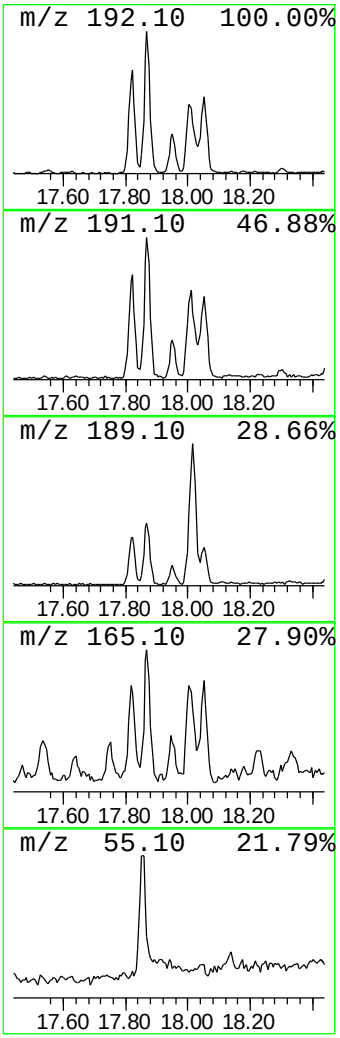

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Quant Title : SVOA CALIBRATION

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

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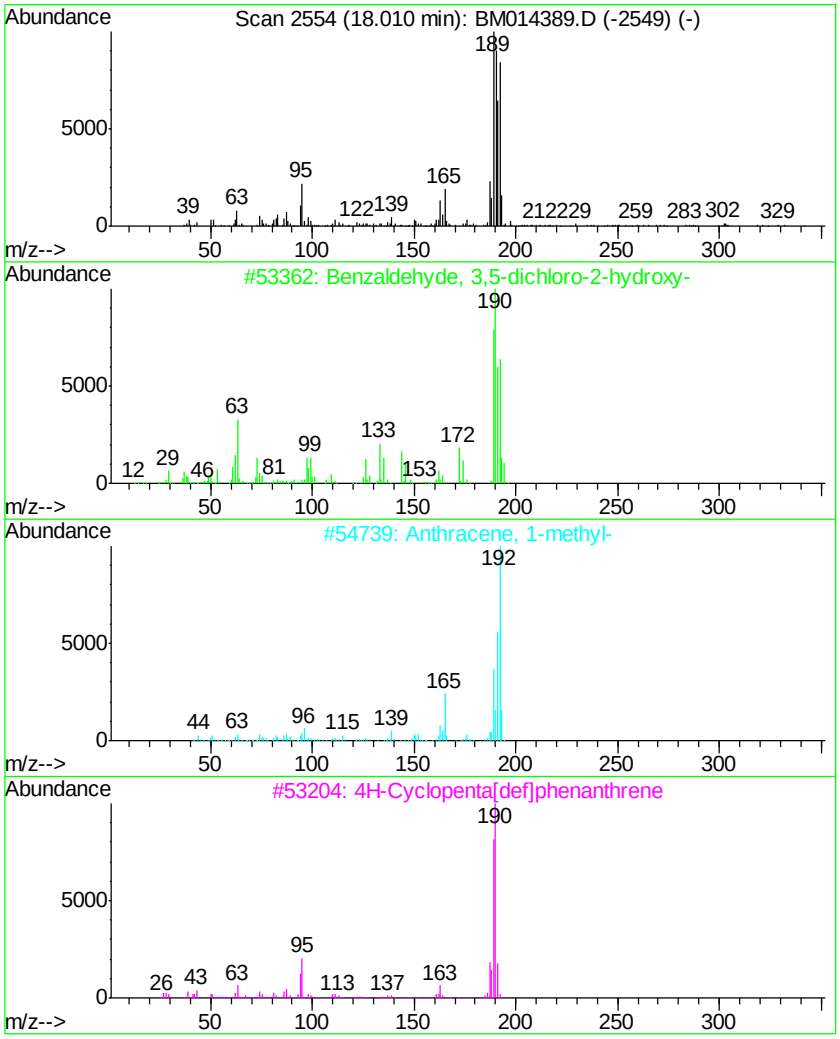
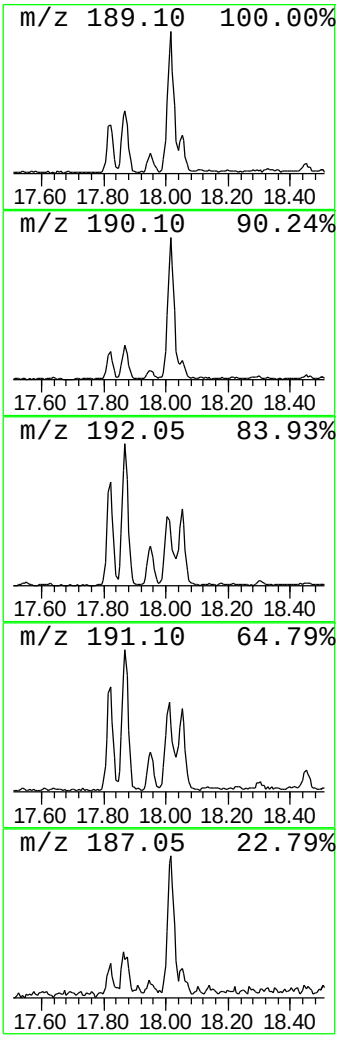
Peak Number 17 Benzaldehyde, 3,5-dichloro-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	14.16 ng/ul	1023870	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46





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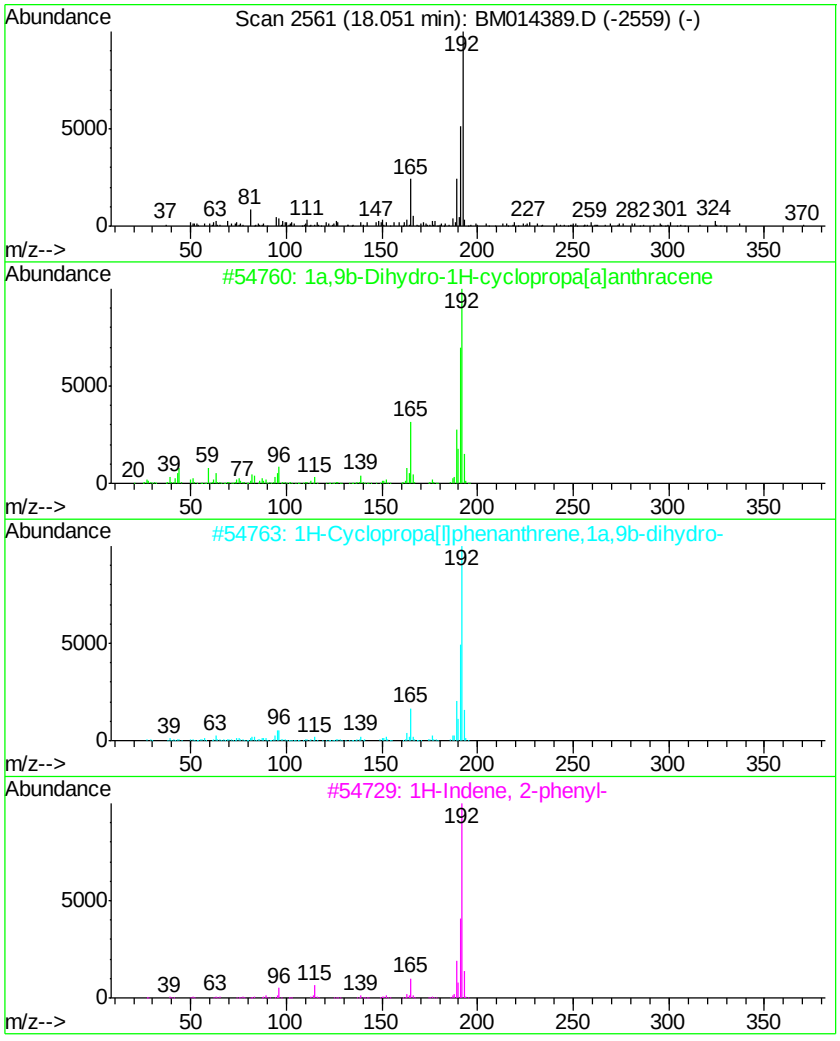
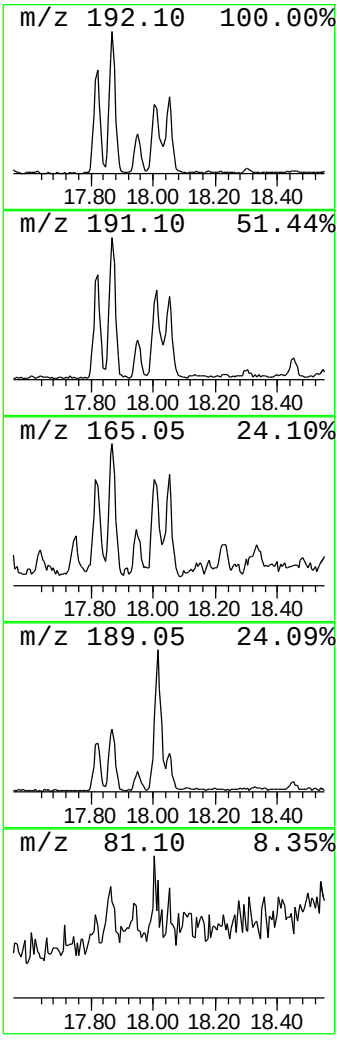
Peak Number 18 1a,9b-Dihydro-1H-cyclopropa... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	5.21 ng/ul	376898	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	72
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	68
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	64
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64





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Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

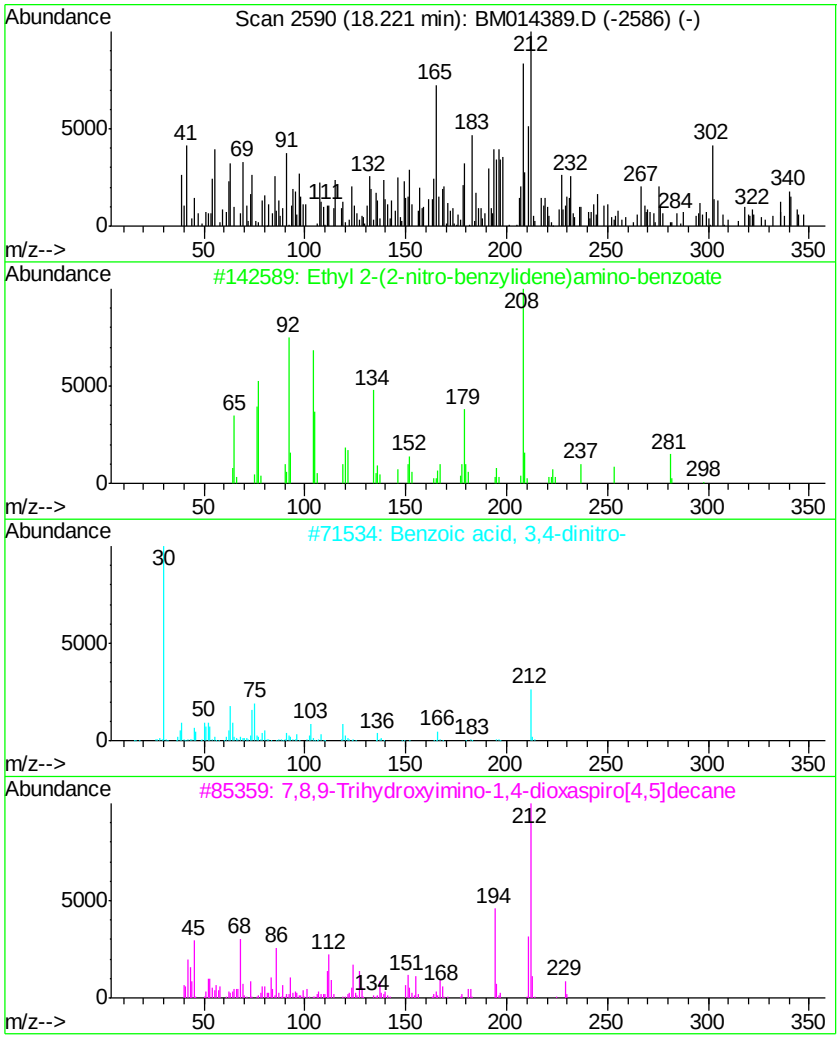
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

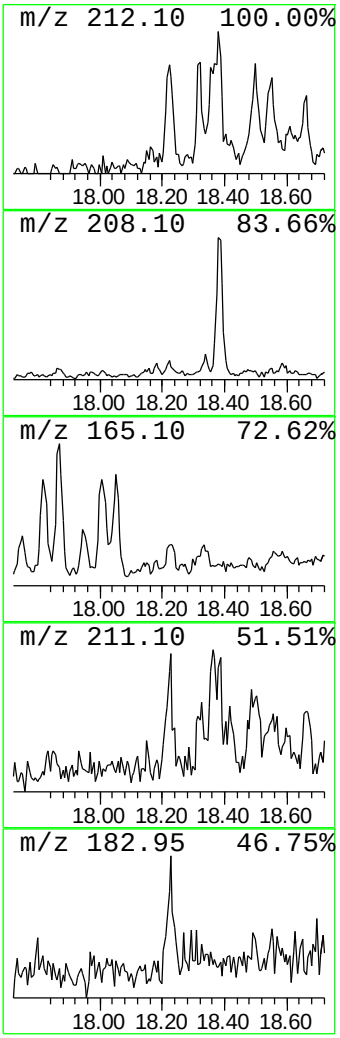
****

Peak Number 19 unknown-02 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.22	3.27 ng/ul	236480	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl 2-(2-nitro-benzylidene)ami...	298	C16H14N2O4	061144-89-6	25
2	Benzoic acid, 3,4-dinitro-	212	C7H4N2O6	000528-45-0	22
3	7,8,9-Trihydroxyimino-1,4-dioxas...	229	C8H11N3O5	282108-82-1	18
4	9-Acridinamine, 1,2,3,4-tetrahyd...	212	C14H16N2	1000337-15-9	14
5	2-Diethylamino-8-ethyl-6,7-dihyd...	237	C11H19N5O	062915-46-2	14





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Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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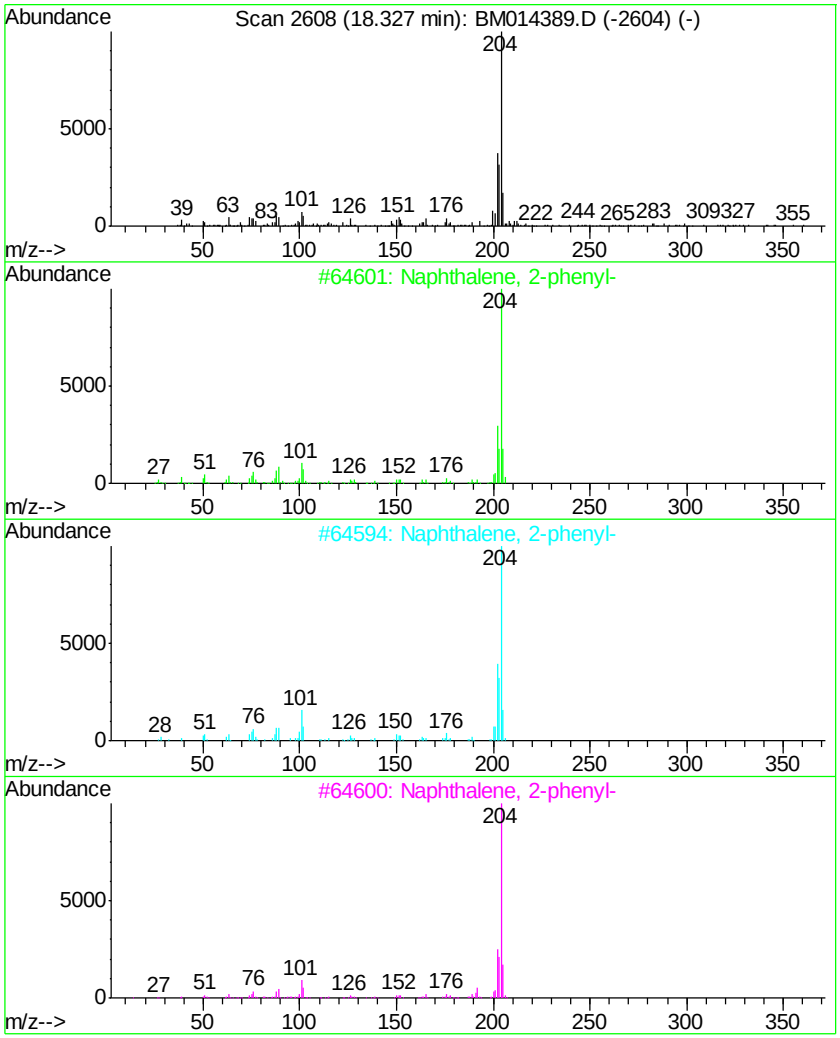
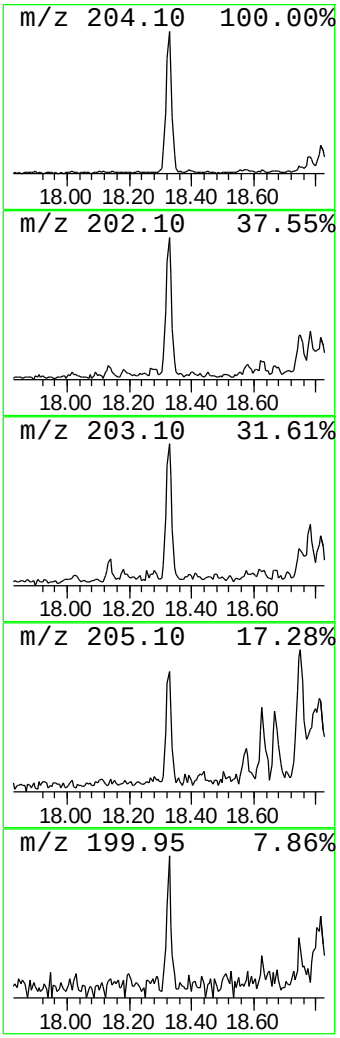
Peak Number 20 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	5.96 ng/ul	430625	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78





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Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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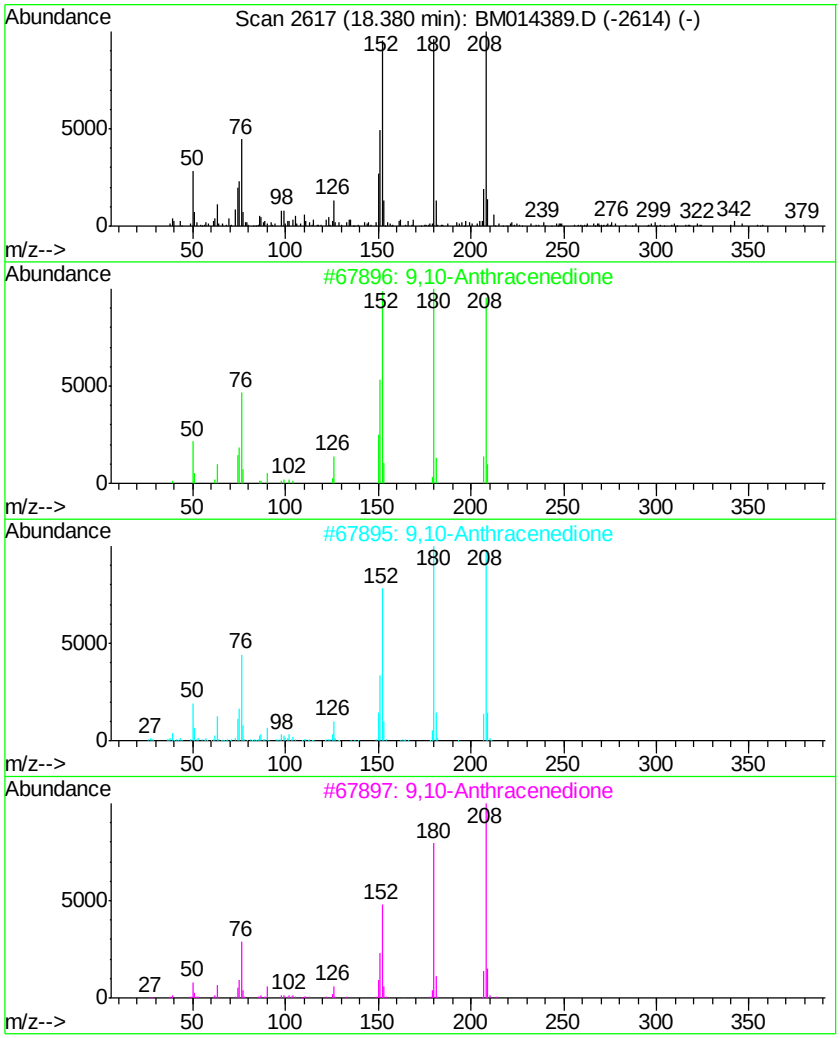
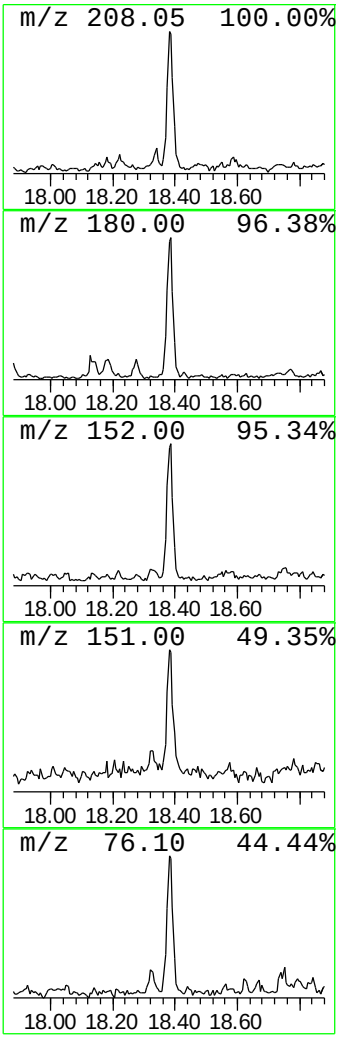
Peak Number 21 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	6.10 ng/ul	441420	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	83





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Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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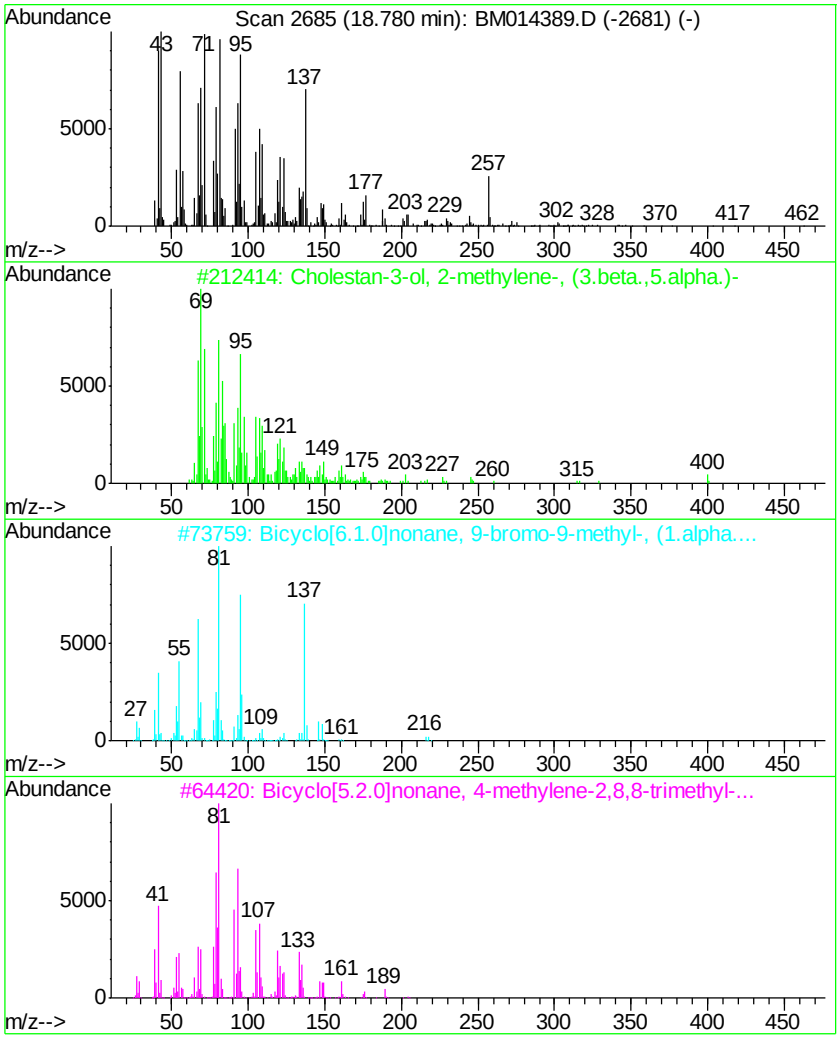
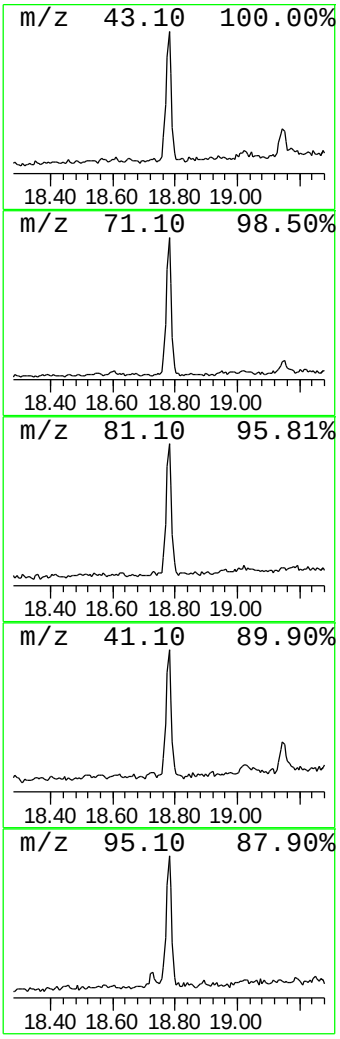
Peak Number 22 Cholestan-3-ol, 2-methylene... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.78	38.11 ng/ul	2755640	Phenanthrene-d10	16.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-ol, 2-methylene-, (3...	400	C28H48O	022599-96-8	72
2	Bicyclo[6.1.0]nonane, 9-bromo-9-...	216	C10H17Br	059474-03-2	45
3	Bicyclo[5.2.0]nonane, 4-methylen...	204	C15H24	1000159-38-2	38
4	4,8,12,16-Octadecatetraen-1-ol, ...	318	C22H38O	1000142-00-0	35
5	3,7,11,Trimethyl-8,10- dodecedie...	266	C17H30O2	1000374-10-3	27





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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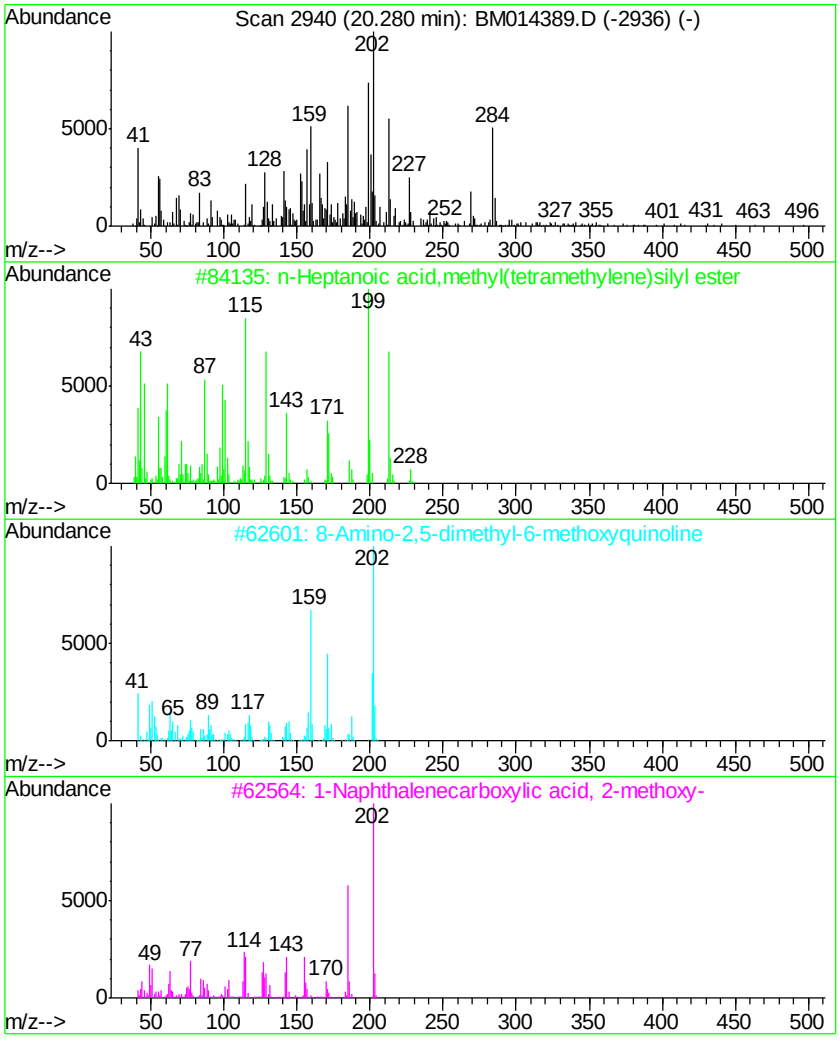
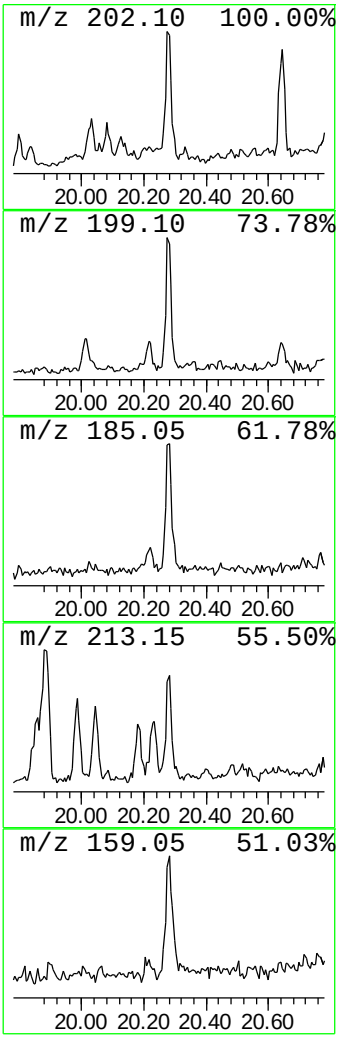
Peak Number 23 unknown-03 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.28	4.59 ng/ul	1031100	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Heptanoic acid,methyl(tetramet...	228	C12H24O2Si	1000217-03-6	38
2	8-Amino-2,5-dimethyl-6-methoxyqu...	202	C12H14N2O	1000214-69-9	35
3	1-Naphthalenecarboxylic acid, 2-...	202	C12H10O3	000947-62-6	18
4	1H-Pyrazole-4-carbaldehyde, 5-hy...	202	C11H10N2O2	1000302-68-8	18
5	2-(2-Methoxynaphthalen-1-yl)-2-m...	228	C15H16O2	032454-20-9	18





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Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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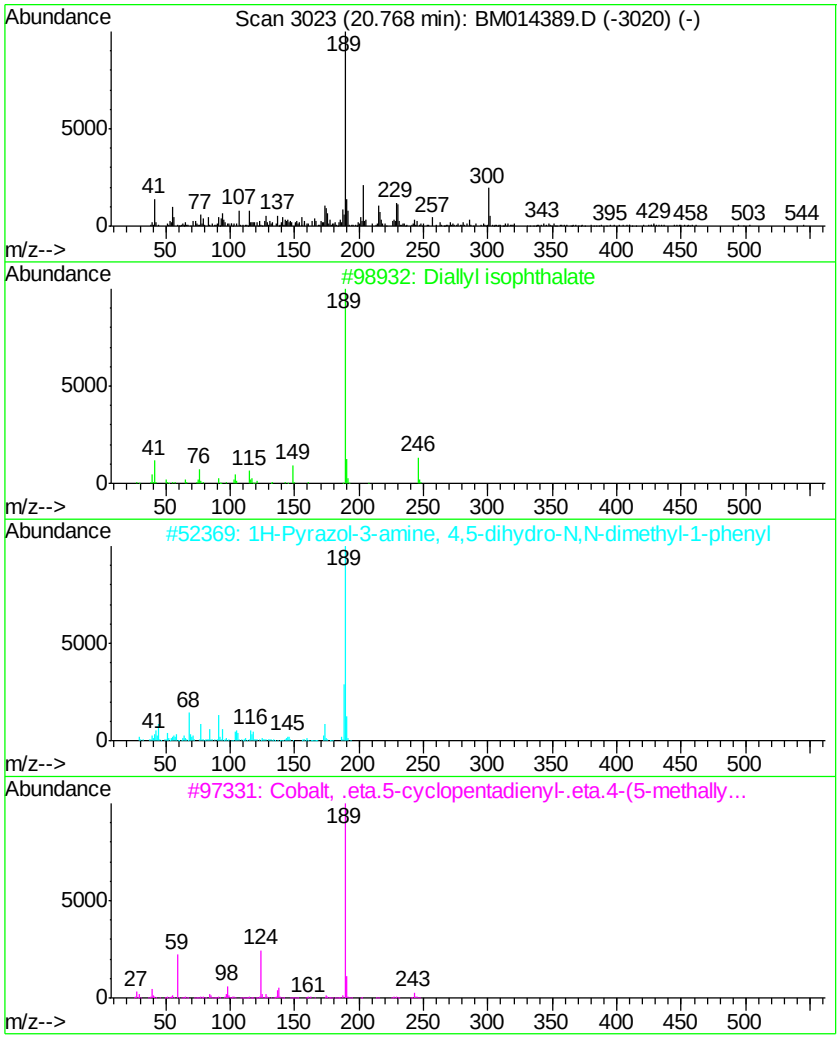
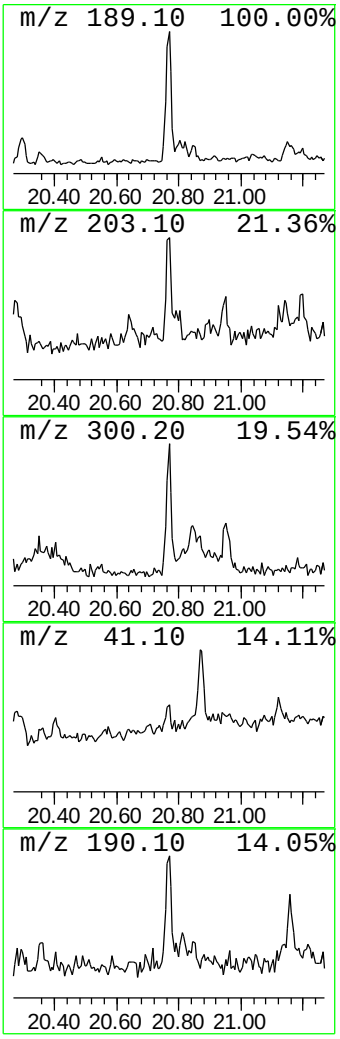
Peak Number 24 unknown-04 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.77	2.54 ng/ul	570612	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diallyl isophthalate	246	C14H14O4	001087-21-4	38
2	1H-Pyrazol-3-amine, 4,5-dihydro-...	189	C11H15N3	1000327-38-2	38
3	Cobalt, .eta.5-cyclopentadienyl-...	244	C14H17Co	094791-70-5	38
4	2,2'-Isopropylidenebis(5-methylf...	204	C13H16O2	059212-75-8	38
5	Phenol, 2-acetylamino-5,6-dicyan...	231	C11H9N3O3	1000116-87-9	38





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Data File : BM014389.D
Acq On : 27 Feb 2018 19:02
Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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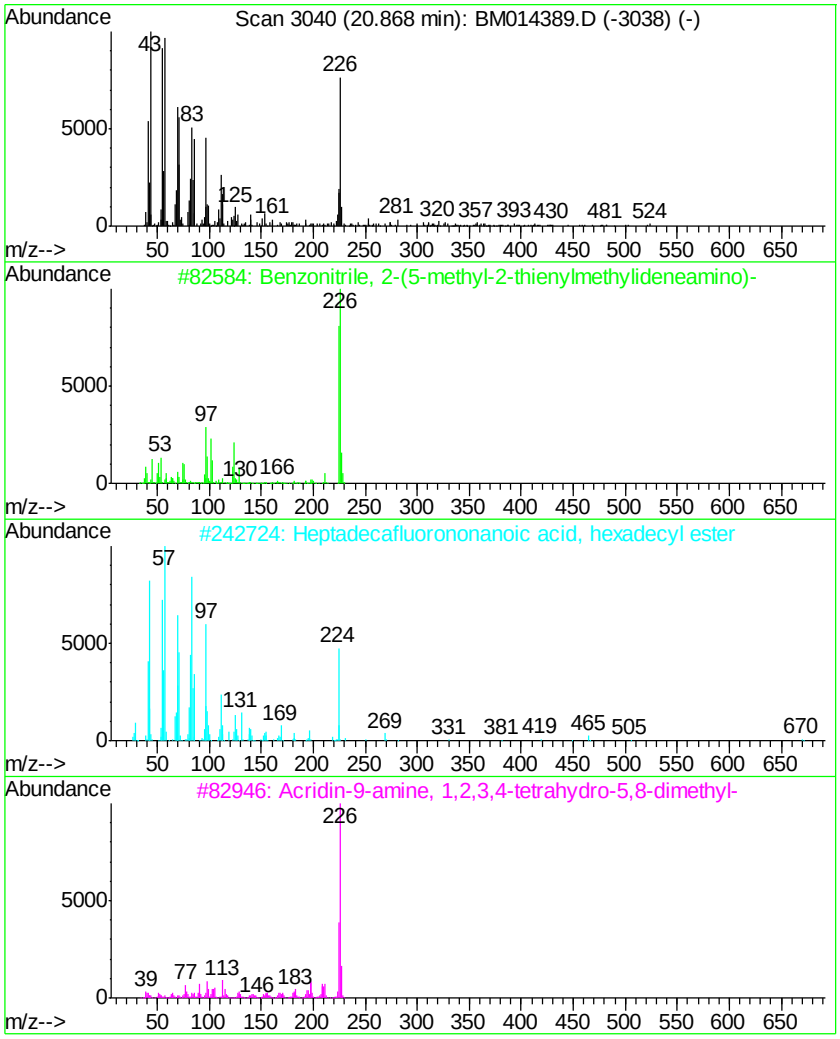
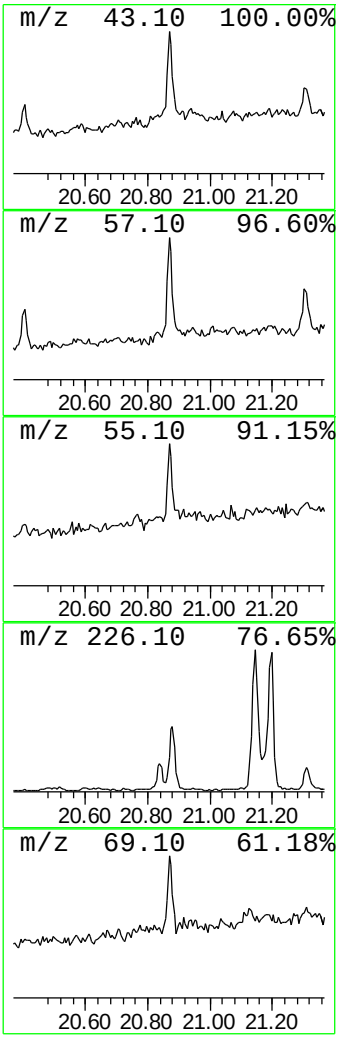
Peak Number 25 unknown-05 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	4.13 ng/ul	928394	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzonitrile, 2-(5-methyl-2-thie...	226	C13H10N2S	315670-19-0	35
2	Heptadecafluorononanoic acid, he...	688	C25H33F17O2	1000356-03-2	35
3	Acridin-9-amine, 1,2,3,4-tetrahy...	226	C15H18N2	297758-19-1	25
4	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	25
5	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	25





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Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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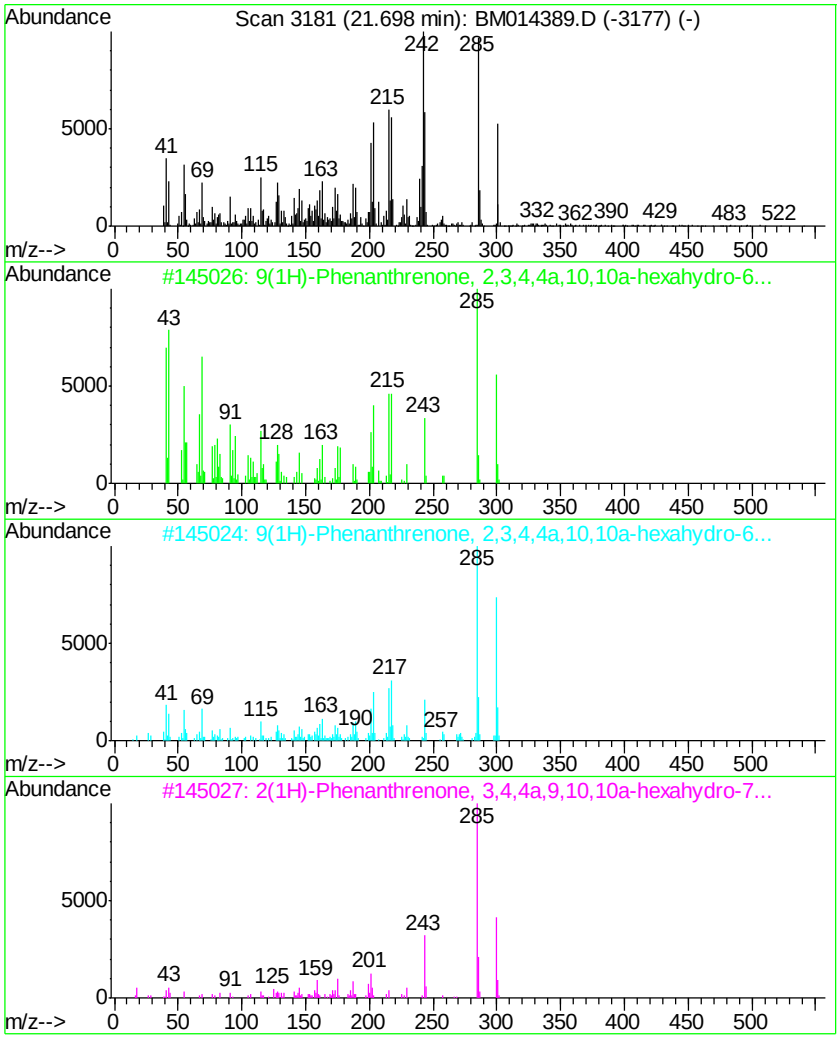
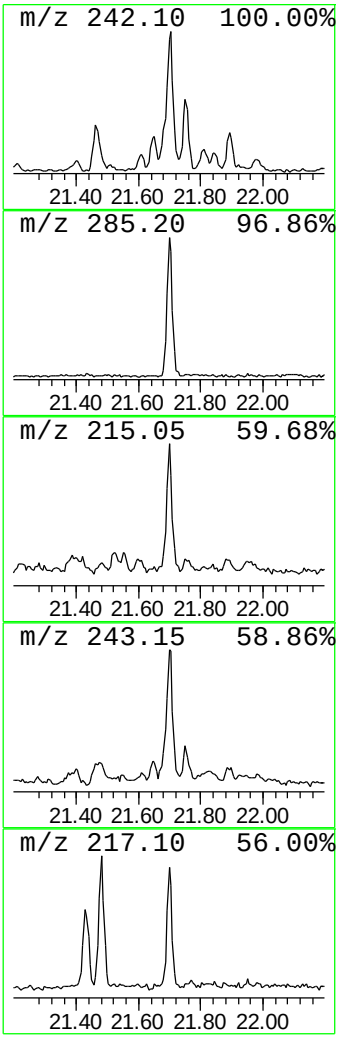
Peak Number 26 9(1H)-Phenanthrenone, 2,3,4... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.70	11.37 ng/ul	2555220	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(1H)-Phenanthrenone, 2,3,4,4a,1...	300	C20H28O2	000511-05-7	93
2	9(1H)-Phenanthrenone, 2,3,4,4a,1...	300	C20H28O2	000511-05-7	89
3	2(1H)-Phenanthrenone, 3,4,4a,9,1...	300	C20H28O2	006755-93-7	80
4	Phenanthrene, 1,2,3,4,4a,9,10,10...	300	C21H32O	010064-26-3	58
5	2-Quinoxalinecarbonitrile, 3-ami...	285	C15H16FN5	1000350-07-5	45





Tentatively Identified Compound (LSC) summary

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Operator : SJ/JU
Sample : J1631-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE609

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown-01	4.68	3.0	ng/ul	120431	1	7.52	798057	20.0
p-Cymene	7.65	3.4	ng/ul	134789	1	7.52	798057	20.0
Bicyclo[2.2.1]hep...	9.71	3.3	ng/ul	177474	2	10.29	1068780	20.0
Benzene, 1-chloro...	10.92	4.7	ng/ul	248476	2	10.29	1068780	20.0
(DEL) Alkane: Str...	15.04	2.7	ng/ul	184537	3	14.18	1352950	20.0
[1,1'-Biphenyl]-4...	15.54	2.0	ng/ul	137230	3	14.18	1352950	20.0
(DEL) Alkane: Str...	15.91	3.7	ng/ul	268061	4	16.94	1446100	20.0
Benzenamine, 2-ch...	16.12	13.0	ng/ul	941995	4	16.94	1446100	20.0
Botran	16.36	3.9	ng/ul	280004	4	16.94	1446100	20.0
9H-Fluoren-9-one	16.61	3.0	ng/ul	220835	4	16.94	1446100	20.0
(DEL) Alkane: Str...	16.70	3.5	ng/ul	254645	4	16.94	1446100	20.0
Dibenzothiophene	16.76	3.6	ng/ul	259025	4	16.94	1446100	20.0
Benzo[h]quinoline	17.14	2.6	ng/ul	188499	4	16.94	1446100	20.0
Phenanthrene, 2-m...	17.82	7.5	ng/ul	545687	4	16.94	1446100	20.0
Anthracene, 2-met...	17.86	19.9	ng/ul	1437590	4	16.94	1446100	20.0
Naphtho[2,3-b]nor...	17.94	3.8	ng/ul	272136	4	16.94	1446100	20.0
Benzaldehyde, 3,5...	18.01	14.2	ng/ul	1023870	4	16.94	1446100	20.0
1a,9b-Dihydro-1H-...	18.05	5.2	ng/ul	376898	4	16.94	1446100	20.0
unknown-02	18.22	3.3	ng/ul	236480	4	16.94	1446100	20.0
Naphthalene, 2-ph...	18.33	6.0	ng/ul	430625	4	16.94	1446100	20.0
9,10-Anthracenedione	18.38	6.1	ng/ul	441420	4	16.94	1446100	20.0
Cholestan-3-ol, 2...	18.78	38.1	ng/ul	2755640	4	16.94	1446100	20.0
unknown-03	20.28	4.6	ng/ul	1031100	5	21.16	4492880	20.0
unknown-04	20.77	2.5	ng/ul	570612	5	21.16	4492880	20.0
unknown-05	20.87	4.1	ng/ul	928394	5	21.16	4492880	20.0
9(1H)-Phenanthren...	21.70	11.4	ng/ul	2555220	5	21.16	4492880	20.0