LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

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:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Title : SVOA CALIBRATION

Signal : TIC: BN015996.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.740	108	111	128	rVB2	240006	487416	2.29%	0.305%
2	7.034	665	671	679	rVB	252440	438158	2.06%	0.274%
3	7.205	693	700	707	rBV	853016	1437005	6.76%	0.900%
4	7.405	727	734	744	rVB	874843	1468129	6.91%	0.920%
5	7.875	807	814	822	rVB	941979	1592007	7.49%	0.997%
6	8.252	869	878	887	rVB	2446731	4136548	19.46%	2.591%
7	8.581	927	934	943	rVB	686688	1171133	5.51%	0.734%
8	9.034	1005	1011	1023	rVB	1201852	2266798	10.67%	1.420%
9	9.234	1036	1045	1051	rBV	117269	222885	1.05%	0.140%
10	9.352	1054	1065	1072	rBV3	141331	348161	1.64%	0.218%
11	9.757	1126	1134	1141	rBV	884635	1527263	7.19%	0.957%
12	9.928	1157	1163	1173	rVB	201918	355534	1.67%	0.223%
13	10.075	1181	1188	1199	rBV	698151	1314587	6.19%	0.823%
14	10.293	1218	1225	1234	rVV	1278159	2279605	10.73%	1.428%
15	10.675	1279	1290	1296	rVV	1300078	2372876	11.17%	1.486%
16	10.728	1296	1299	1305	rVV2	169351	290570	1.37%	0.182%
17	10.810	1305	1313	1320	rVV	1093555	2051064	9.65%	1.285%
18	11.787	1472	1479	1484	rBV	223640	397765	1.87%	0.249%
19	12.063	1521	1526	1535	rVB4	101347	204267	0.96%	0.128%
20	12.234	1548	1555	1566	rVV	466999	802979	3.78%	0.503%
21	12.340	1566	1573	1579	rVV	1285337	2092939	9.85%	1.311%
22	12.457	1586	1593	1598	rVV3	177309	318189	1.50%	0.199%
23	12.557	1598	1610	1621	rVB	3463007	6145408	28.92%	3.850%
24	13.445	1750	1761	1764	rVV7	50583	155994	0.73%	0.098%
25	13.569	1771	1782	1788	rVB3	295402	842689	3.97%	0.528%
26	13.687	1790	1802	1810	rVV4	295489	821887	3.87%	0.515%
27	13.834	1819	1827	1832	rVV2	744226	1403887	6.61%	0.879%
28	13.887	1832	1836	1837	rVV	278685	352791	1.66%	0.221%
29	13.922	1837	1842	1852	rVV	2861635	4225523	19.88%	2.647%
30	14.069	1861	1867	1870	rVV	442440	693350	3.26%	0.434%
31	14.104	1870	1873	1878	rVB	254742	359006	1.69%	0.225%
32	14.204	1884	1890	1901	rVV	2835542	5117624	24.08%	3.206%
33	14.516	1934	1943	1948	rVV	1907654	3204306	15.08%	2.007%
34	14.581	1948	1954	1961	rVV	14066082	21252260	100.00%	13.313%
35	14.704	1969	1975	1985	rBV3	242981	530876	2.50%	0.333%
36	14.822	1991	1995	2000	rVB	242160	358590	1.69%	0.225%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
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Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

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:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Title : SVOA CALIBRATION

37	14.910	2003	2010	2016	rVB	1165174	1772734	8.34%	1.110%
38	14.987	2017	2023	2026	rBV3	99162	164974	0.78%	0.103%
39	15.128	2038	2047	2052	rBV3	190532	398565	1.88%	0.250%
40	15.292	2069	2075	2079	rBV6	80754	198733	0.94%	0.124%
41	15.334	2079	2082	2085	rVV3	116241	175054	0.82%	0.110%
42	15.504	2105	2111	2116	rVV	3749902	5672613	26.69%	3.553%
43	15.563	2116	2121	2126	rVV	4089618	6185452	29.10%	3.875%
44	15.616	2126	2130	2135	rVV	1034919	1512120	7.12%	0.947%
45	15.657	2135	2137	2138	rVV2	161432	162672	0.77%	0.102%
46	15.687	2138	2142	2145	rVV	469525	821216	3.86%	0.514%
47	15.722	2145	2148	2152	rVV2	464852	749228	3.53%	0.469%
48	15.769	2152	2156	2159	rVV2	229579	404809	1.90%	0.254%
49	15.810	2159	2163	2166	rVV	249148	404338	1.90%	0.253%
50	15.851	2166	2170	2180	rVV2	426560	673577	3.17%	0.422%
51	15.992	2190	2194	2202	rVV2	362260	824244	3.88%	0.516%
52	16.063	2202	2206	2216	rVB2	179230	398054	1.87%	0.249%
53	16.234	2228	2235	2242	rVB	1075817	1720370	8.09%	1.078%
54	16.351	2248	2255	2261	rBV	378181	619286	2.91%	0.388%
55	16.563	2285	2291	2295	rVV	215277	457270	2.15%	0.286%
56	16.616	2295	2300	2306	rVB2	175729	306330	1.44%	0.192%
57	16.716	2312	2317	2323	rBV3	114082	168619	0.79%	0.106%
58	17.075	2374	2378	2386	rVB	411908	637940	3.00%	0.400%
59	17.175	2386	2395	2398	rBV2	137642	317336	1.49%	0.199%
60	17.257	2404	2409	2413	rVV	2272486	3421772	16.10%	2.143%
61	17.298	2413	2416	2421	rVV	1986940	2993039	14.08%	1.875%
62	17.357	2421	2426	2430	rVV	4426563	6380760	30.02%	3.997%
63	17.392	2430	2432	2437	rVB	556559	647019	3.04%	0.405%
64	17.457	2437	2443	2450	rVB6	155048	310815	1.46%	0.195%
65	17.663	2474	2478	2483	rVB	138730	207936	0.98%	0.130%
66	17.769	2490	2496	2511	rVB6	96574	326157	1.53%	0.204%
67	17.892	2511	2517	2518	rBV4	146883	207961	0.98%	0.130%
68	17.963	2525	2529	2533	rBV2	172287	253975	1.20%	0.159%
69	18.092	2548	2551	2555	rVB	133426	173164	0.81%	0.108%
70	18.180	2561	2566	2573	rVB	779361	1210944	5.70%	0.759%
71	18.257	2574	2579	2584	rVB2	174197	258098	1.21%	0.162%
72	18.333	2584	2592	2596	rBV2	535038	1012163	4.76%	0.634%
73	18.433	2601	2609	2613	rVV2	295672	747293	3.52%	0.468%
74	18.480	2613	2617	2621	rVV	487182	726835	3.42%	0.455%
75	18.522	2621	2624	2628	rVV3	262826	397506	1.87%	0.249%
76	18.575	2628	2633	2638	rVV2	626221	1025163	4.82%	0.642%

LSC Area Percent Report

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Sample : M3448-08
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Instrument : BNA_N
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Title : SVOA CALIBRATION

77	18.628	2638	2642	2646	rVV2	267367	394496	1.86%	0.247%
78	18.675	2646	2650	2654	rVV2	251794	346394	1.63%	0.217%
79	18.716	2654	2657	2665	rVB5	92411	168516	0.79%	0.106%
80	18.957	2694	2698	2702	rBV2	106614	156641	0.74%	0.098%
81	19.163	2729	2733	2737	rVV2	135066	236452	1.11%	0.148%
82	19.316	2754	2759	2764	rVB	1010926	1410110	6.64%	0.883%
83	19.369	2764	2768	2773	rBV4	117455	187667	0.88%	0.118%
84	19.522	2789	2794	2798	rBV5	121829	221105	1.04%	0.139%
85	19.651	2810	2816	2835	rVB2	5197790	8530800	40.14%	5.344%
86	20.057	2878	2885	2890	rBV	1553571	2460289	11.58%	1.541%
87	20.122	2891	2896	2904	rVV	1177975	1914798	9.01%	1.199%
88	20.222	2908	2913	2917	rVV	1215459	1665857	7.84%	1.044%
89	20.269	2917	2921	2928	rVB4	129132	229326	1.08%	0.144%
90	20.545	2964	2968	2973	rBV	178525	238782	1.12%	0.150%
91	20.651	2982	2986	2993	rVV	689038	916936	4.31%	0.574%
92	20.733	2994	3000	3001	rVV2	369556	587119	2.76%	0.368%
93	20.763	3001	3005	3016	rVB	3086389	4781554	22.50%	2.995%
94	21.157	3068	3072	3080	rVB3	167408	260035	1.22%	0.163%
95	21.439	3115	3120	3129	rVB	2819595	4023583	18.93%	2.520%
96	21.769	3173	3176	3182	rVB	148029	201491	0.95%	0.126%
97	21.939	3200	3205	3211	rBV	605368	936416	4.41%	0.587%
98	23.686	3494	3502	3509	rBV	3725166	7555274	35.55%	4.733%
99	23.839	3520	3528	3539	rVB2	1811225	3854673	18.14%	2.415%
100	24.463	3630	3634	3642	rVB3	144173	273131	1.29%	0.171%

Sum of corrected areas: 159637648

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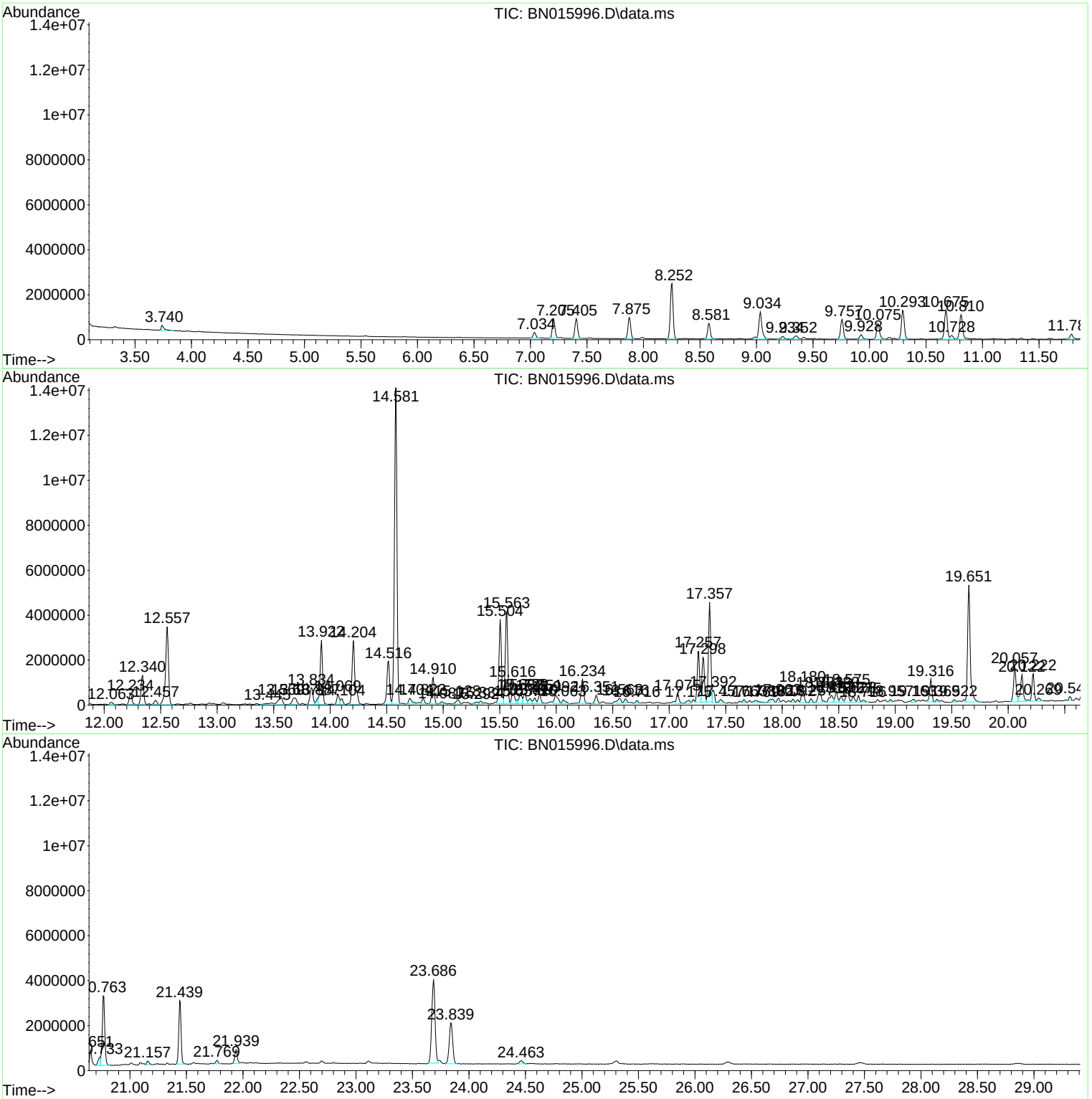
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

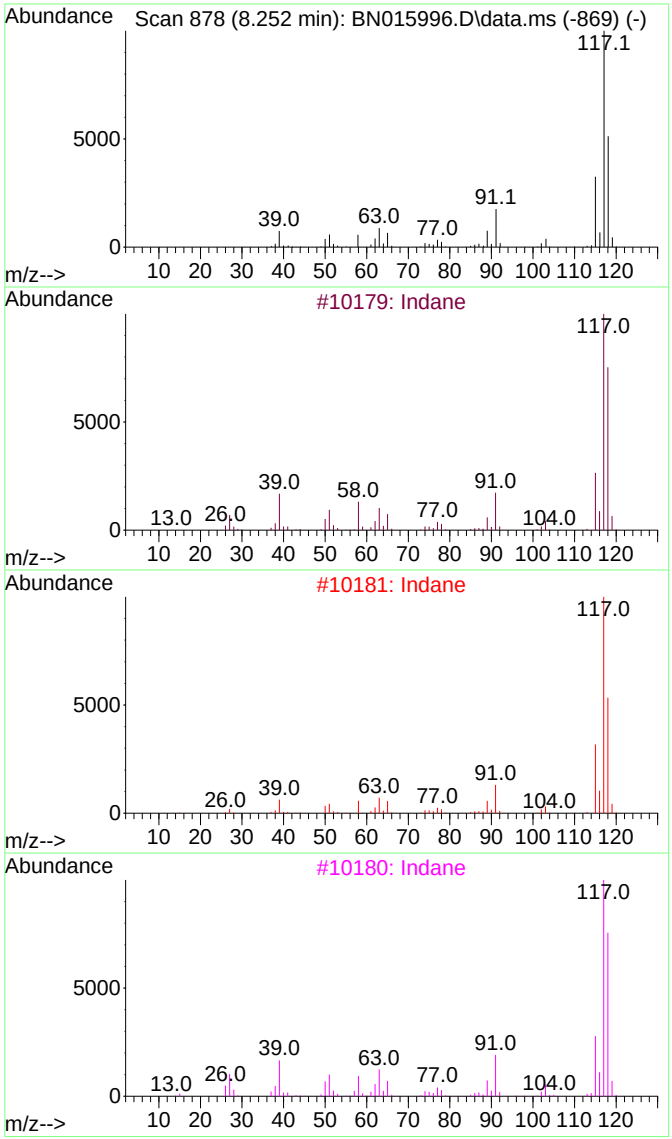
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

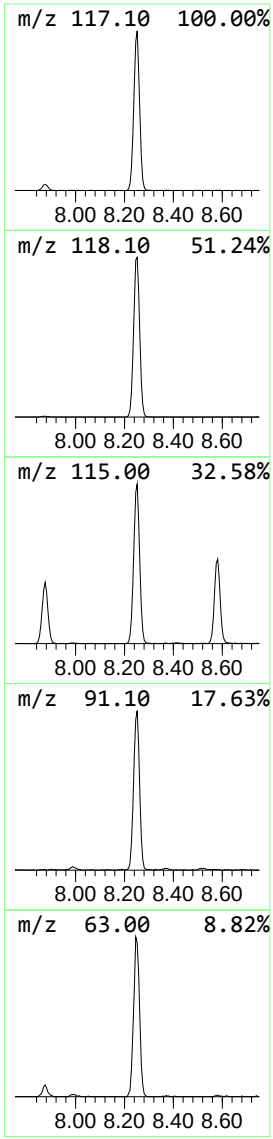
****

Peak Number 1 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.252	51.97 ng/ul	4136550	1,4-Dichlorobenzene-d4	7.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Indane	118	C9H10	000496-11-7	91
3	Indane	118	C9H10	000496-11-7	90
4	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	74
5	Deltacyclene	118	C9H10	007785-10-6	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
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ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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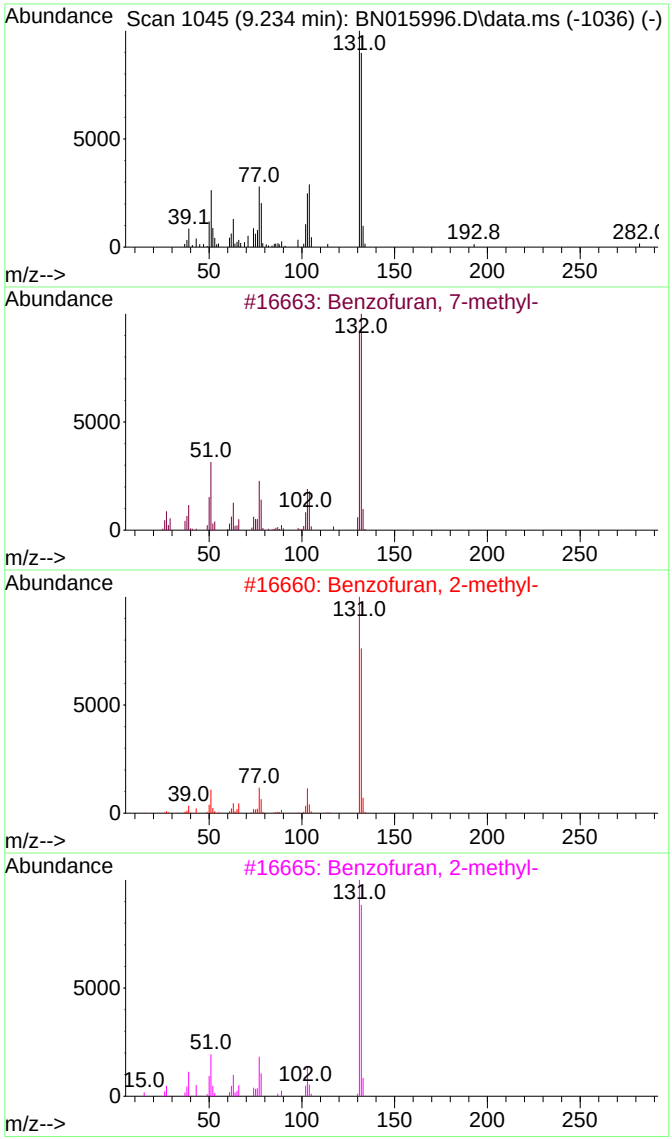
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

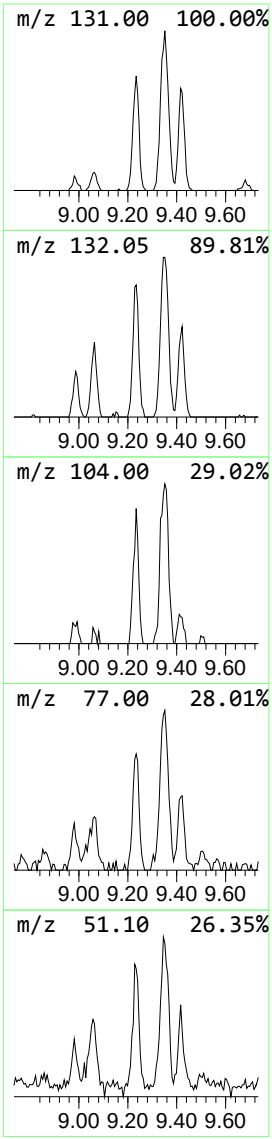
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzofuran, 7-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.234	2.80 ng/ul	222885	1,4-Dichlorobenzene-d4	7.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	94
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
4	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
5	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
Data File : BN015996.D
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ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
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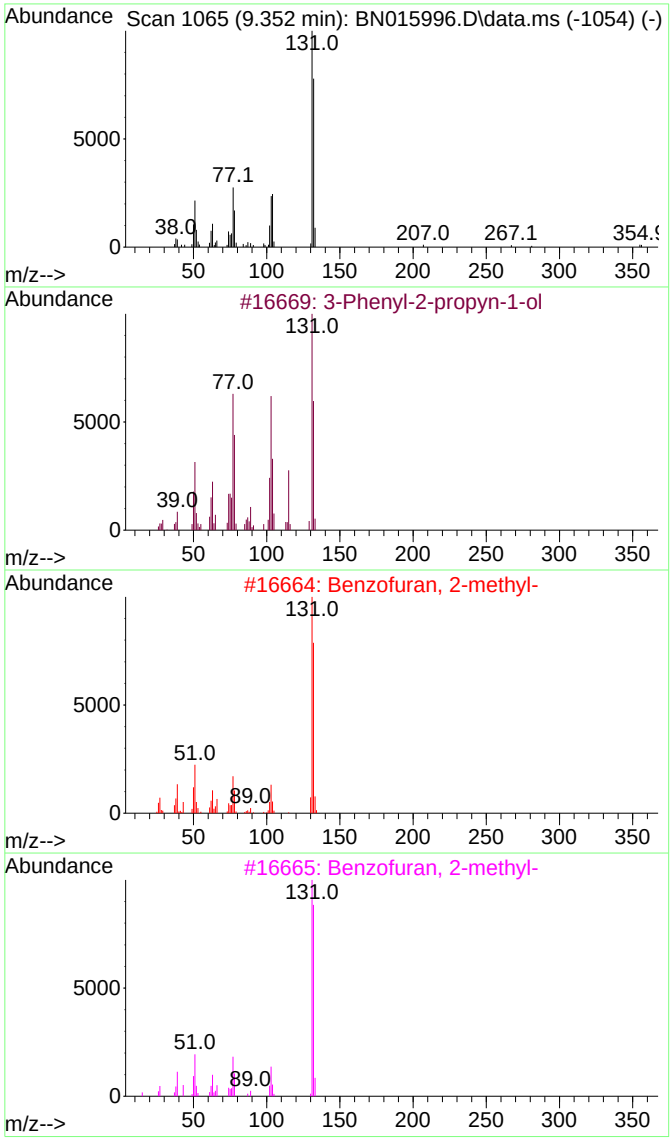
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

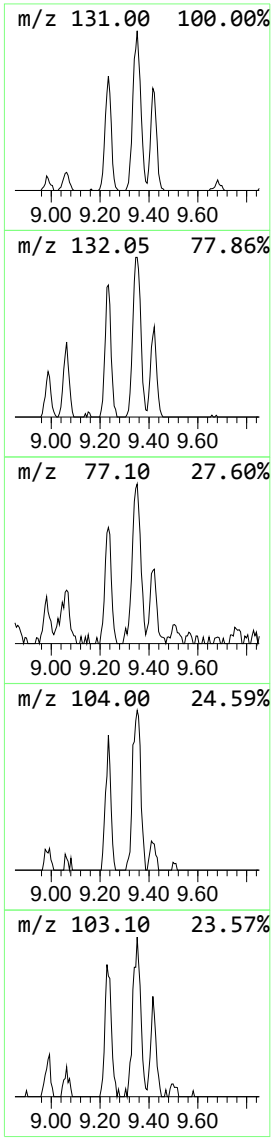
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 3-Phenyl-2-propyn-1-ol Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.352	2.93 ng/ul	348161	Naphthalene-d8	10.675

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	94
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
4	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	90
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90





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Misc :
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Instrument :
BNA_N
ClientSampleId :
DBKE7

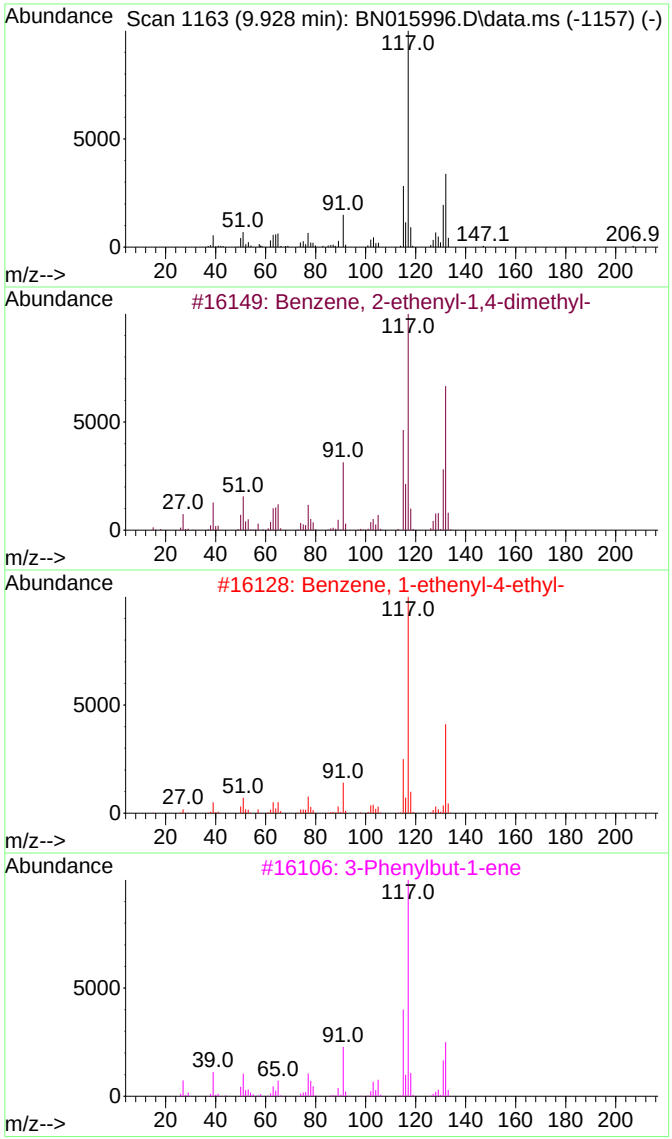
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

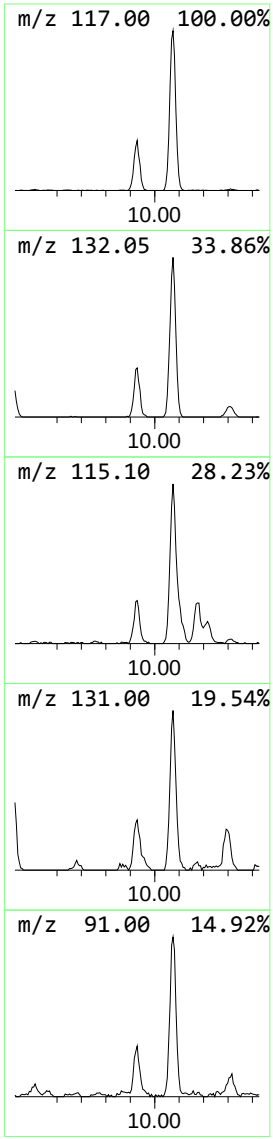
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.928	3.00 ng/ul	355534	Naphthalene-d8	10.675

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	91
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
5	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	90





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Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

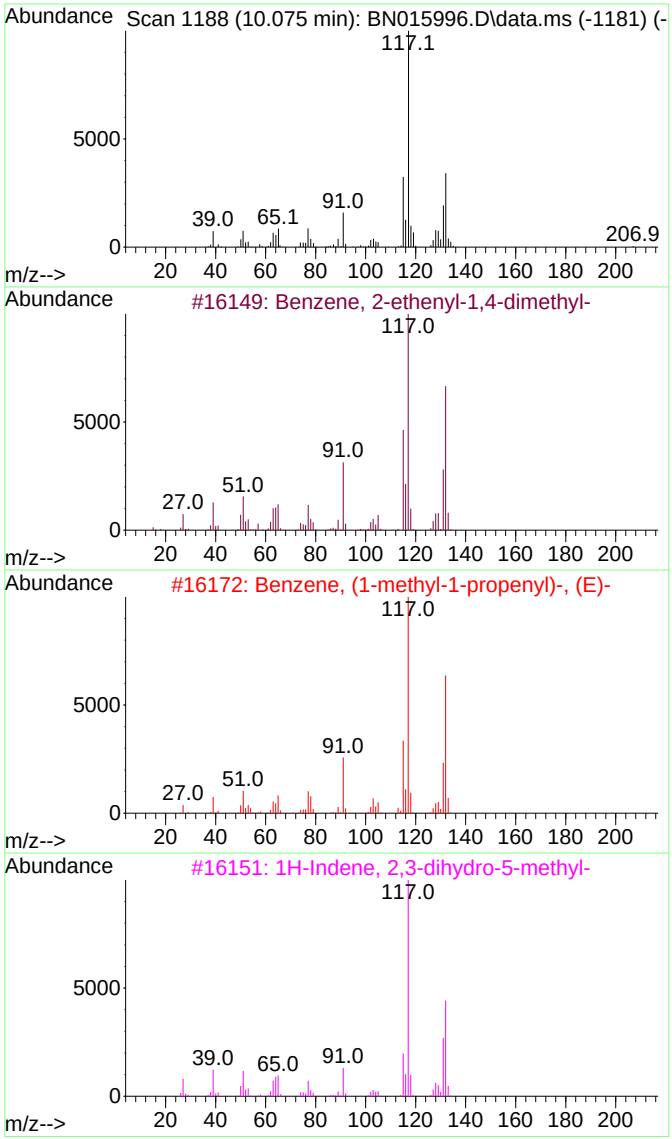
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

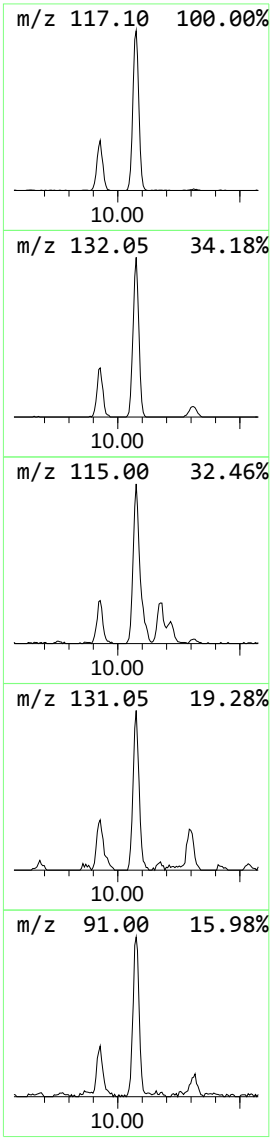
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, (1-methyl-1-propen... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.075	11.08 ng/ul	1314590	Naphthalene-d8	10.675

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90





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Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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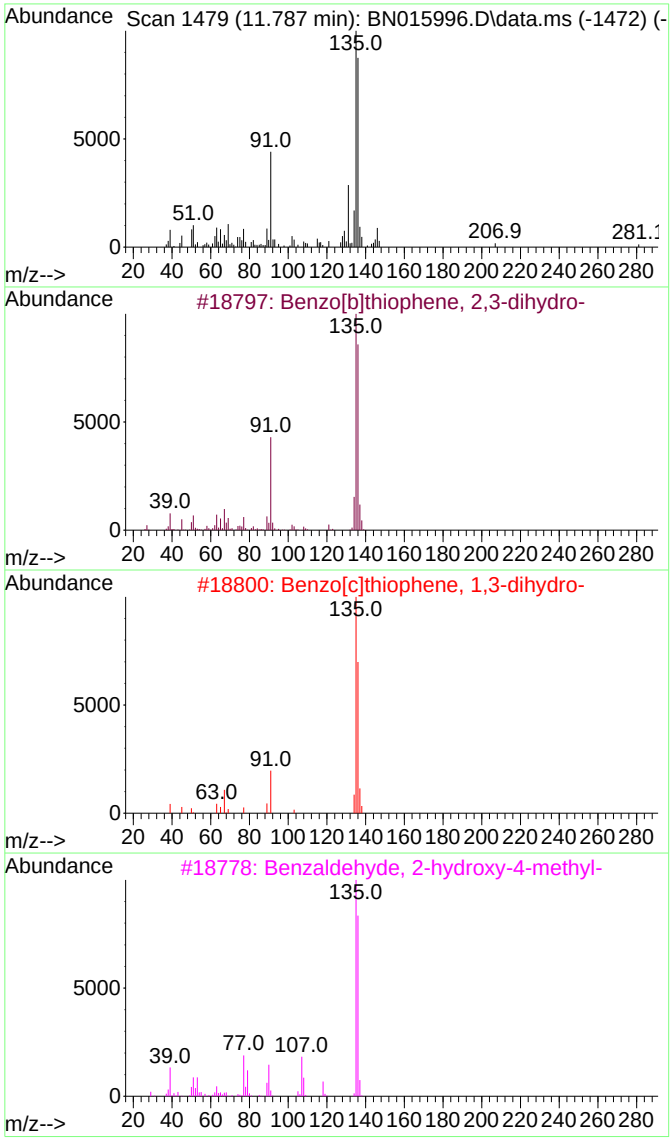
Quant Title : SVOA CALIBRATION

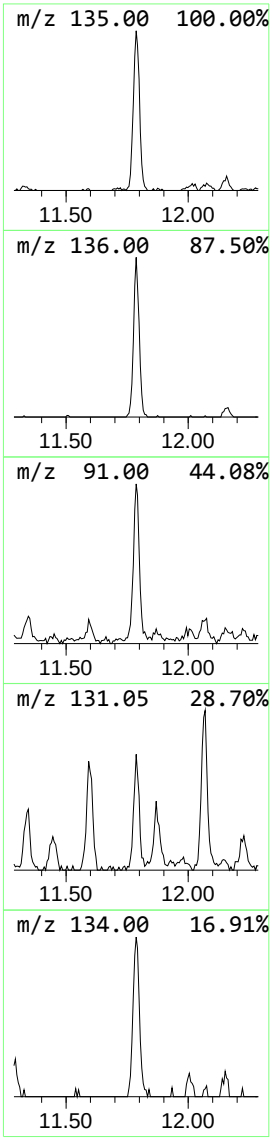
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.787	3.35 ng/ul	397765	Naphthalene-d8	10.675

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	94
2	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S	002471-92-3	72
3	Benzaldehyde, 2-hydroxy-4-methyl-	136	C8H8O2	000698-27-1	64
4	4-Hydroxy-2-methylbenzaldehyde	136	C8H8O2	041438-18-0	64
5	Pyrazine, 2,6-diethyl-	136	C8H12N2	013067-27-1	64





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

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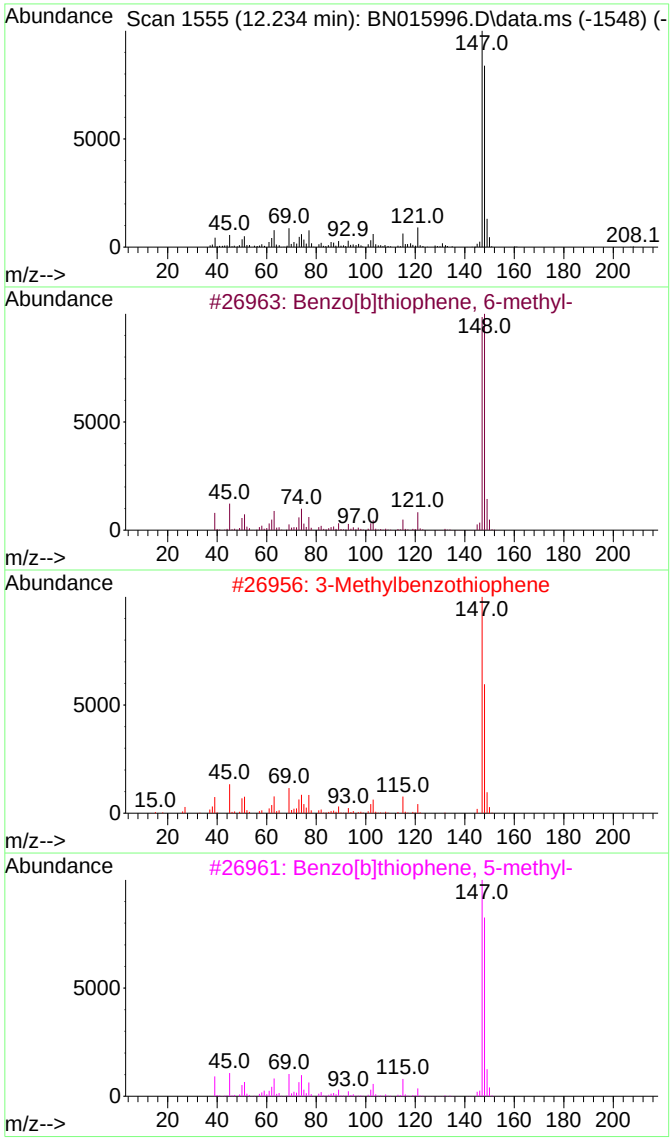
Quant Title : SVOA CALIBRATION

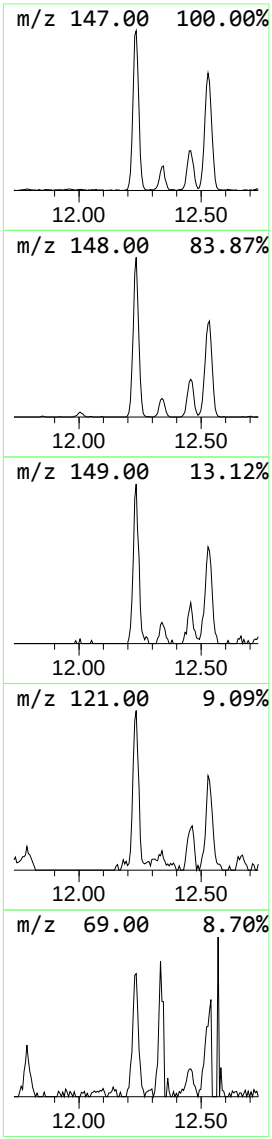
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzo[b]thiophene, 6-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.234	6.77 ng/ul	802979	Naphthalene-d8	10.675

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 6-methyl-	148	C9H8S	016587-47-6	94
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	91
3	Benzo[b]thiophene, 5-methyl-	148	C9H8S	014315-14-1	90
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	90
5	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	87





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ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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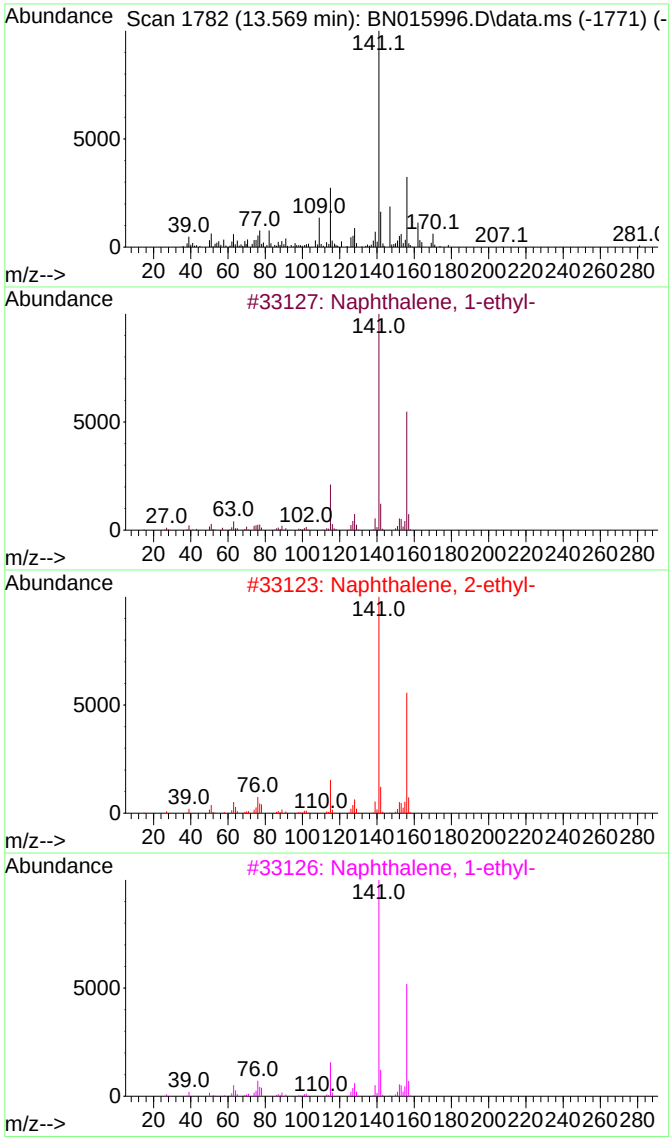
Quant Title : SVOA CALIBRATION

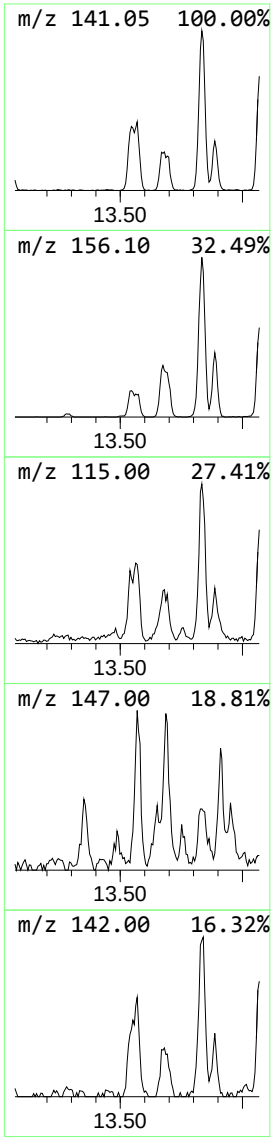
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 1-ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.569	5.26 ng/ul	842689	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	81
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	81
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	81
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	76
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	68





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Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

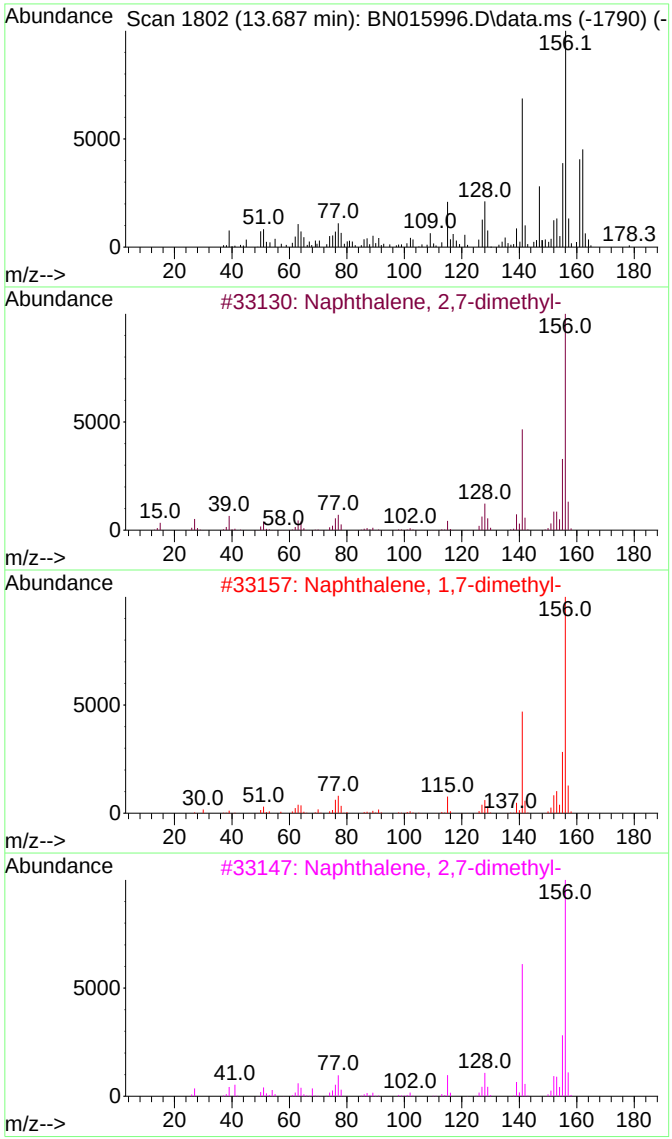
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

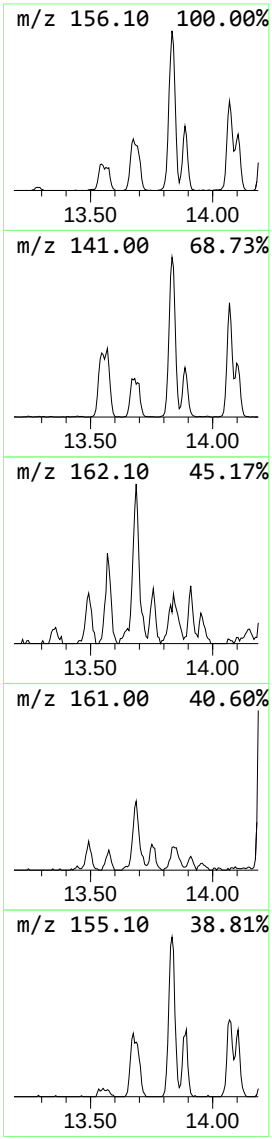
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Naphthalene, 2,7-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.687	5.13 ng/ul	821887	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	92
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	91
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	91
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	91
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	91





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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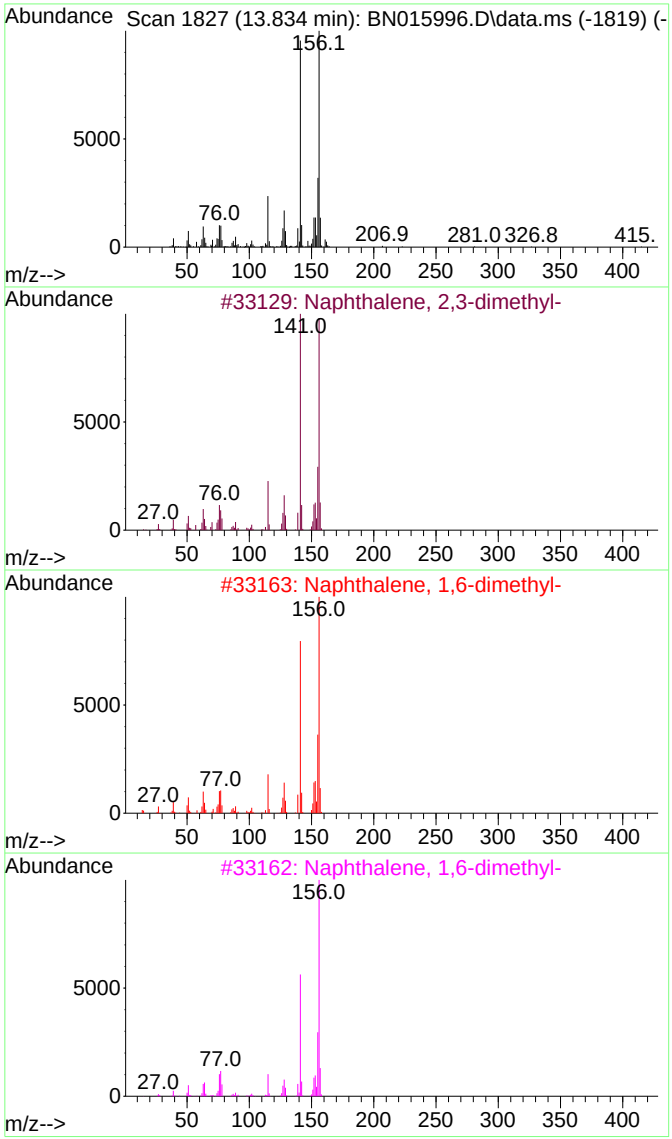
Quant Title : SVOA CALIBRATION

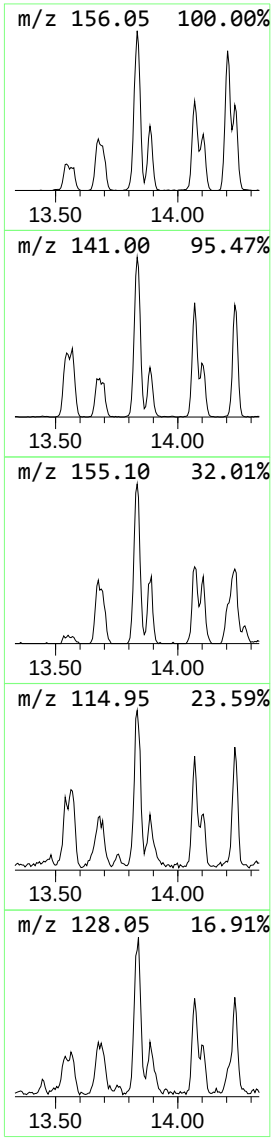
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Naphthalene, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.834	8.76 ng/ul	1403890	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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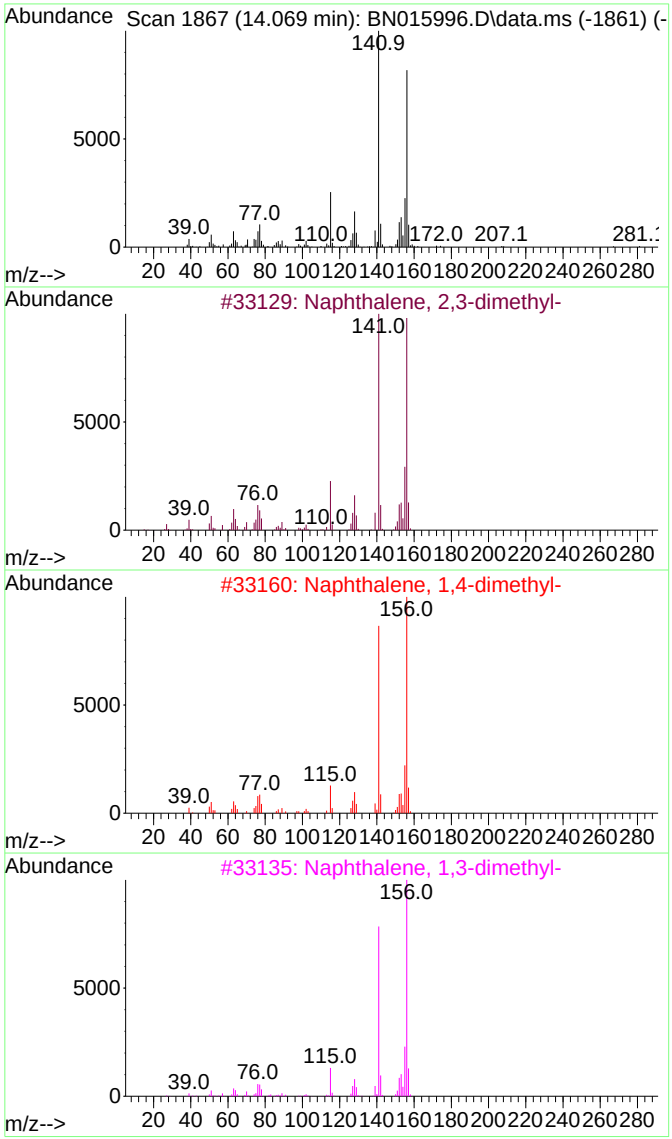
Quant Title : SVOA CALIBRATION

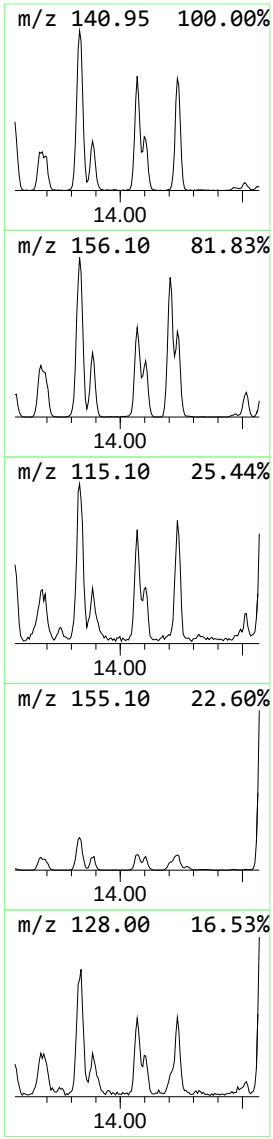
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Naphthalene, 1,4-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.069	4.33 ng/ul	693350	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
4	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	95
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	95





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

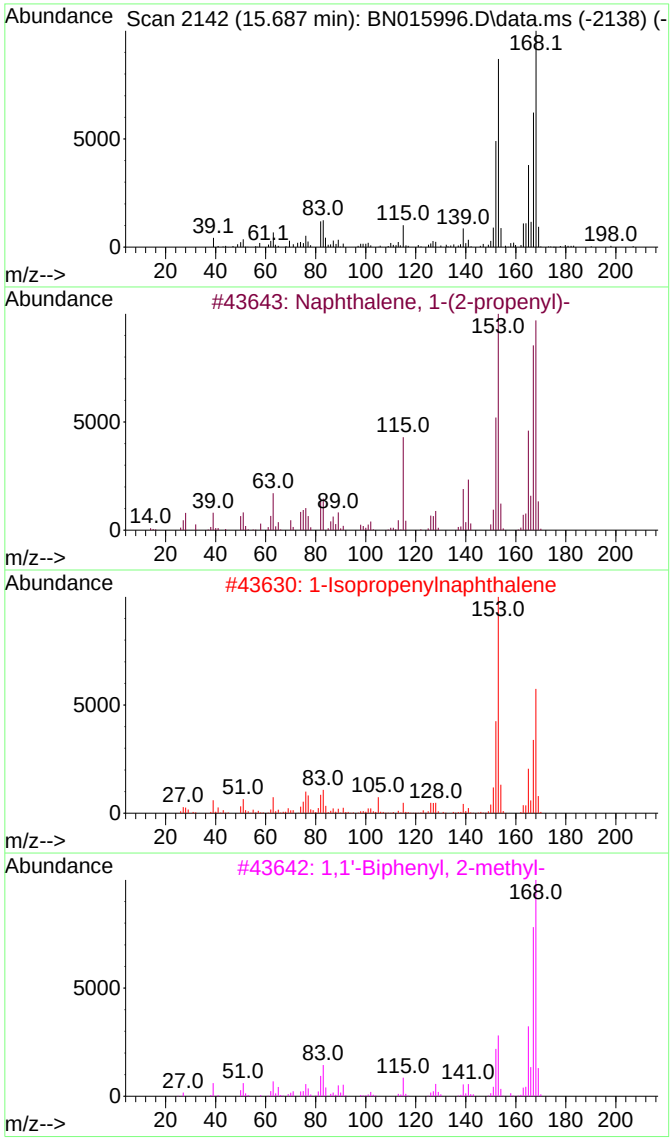
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

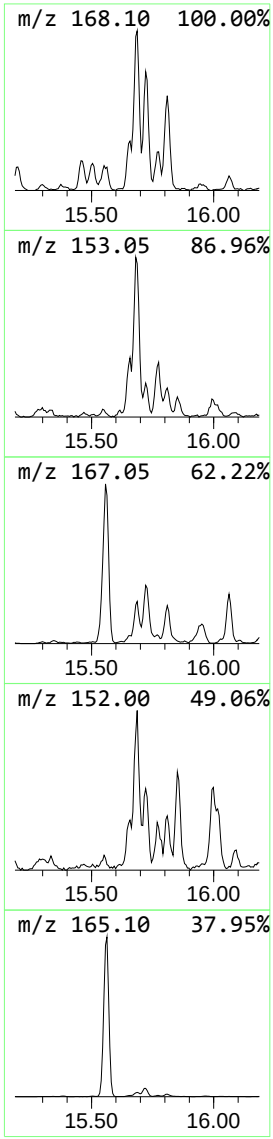
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Naphthalene, 1-(2-propenyl)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.687	5.13 ng/ul	821216	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	87
2	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	74
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	68
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	64
5	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	53





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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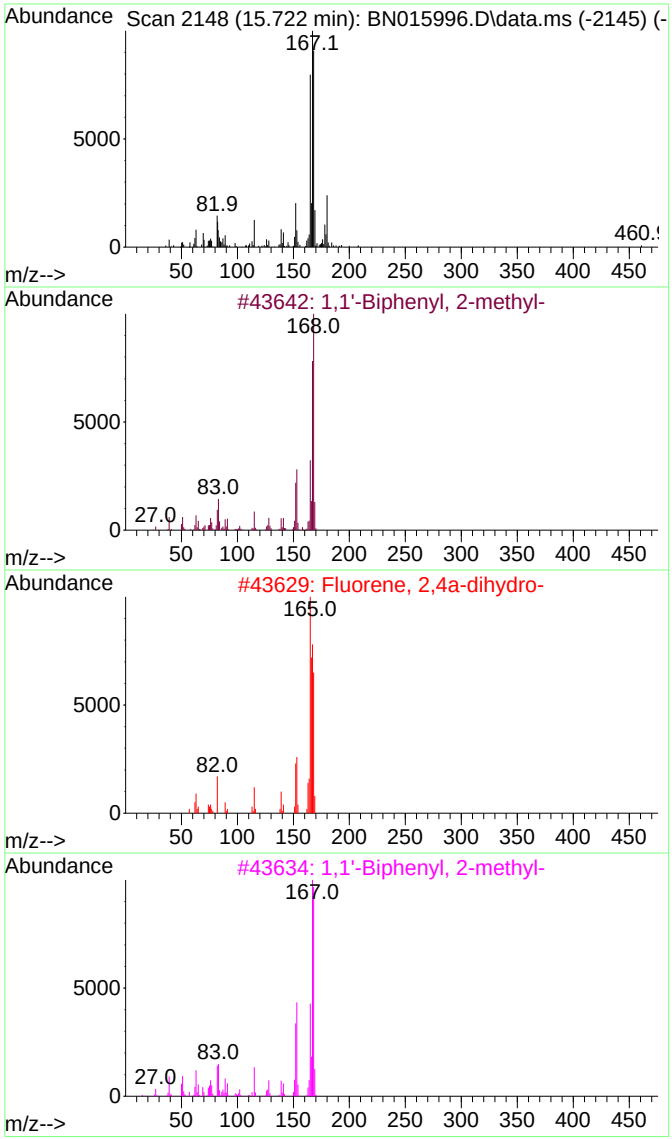
Quant Title : SVOA CALIBRATION

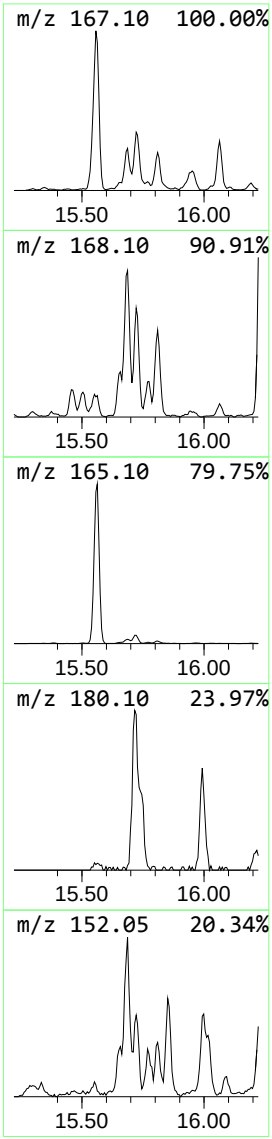
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 1,1'-Biphenyl, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.722	4.68 ng/ul	749228	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	70
2	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	53
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	49
4	Diphenylmethane	168	C13H12	000101-81-5	49
5	Nordiphenamid	225	C15H15NO	000954-21-2	49





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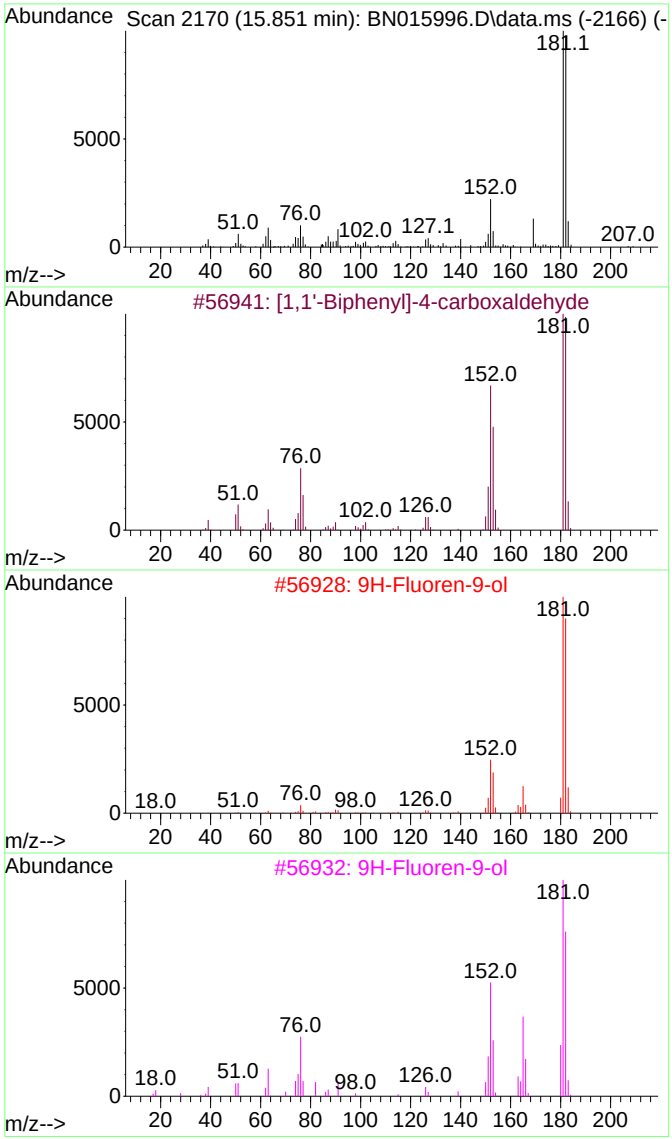
Quant Title : SVOA CALIBRATION

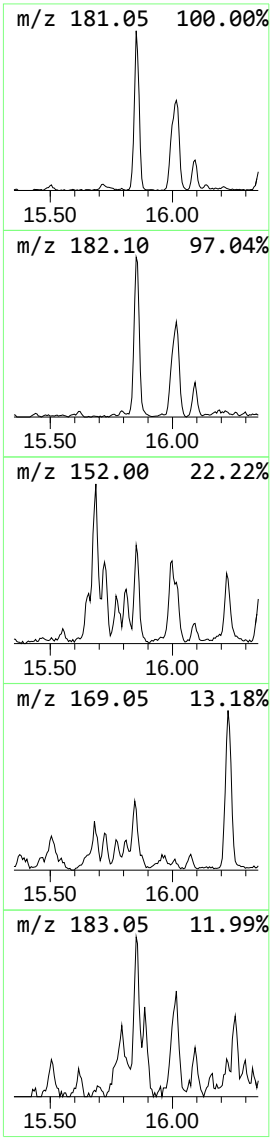
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.851	4.20 ng/ul	673577	Acenaphthene-d10	14.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	70
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	64





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Quant Title : SVOA CALIBRATION

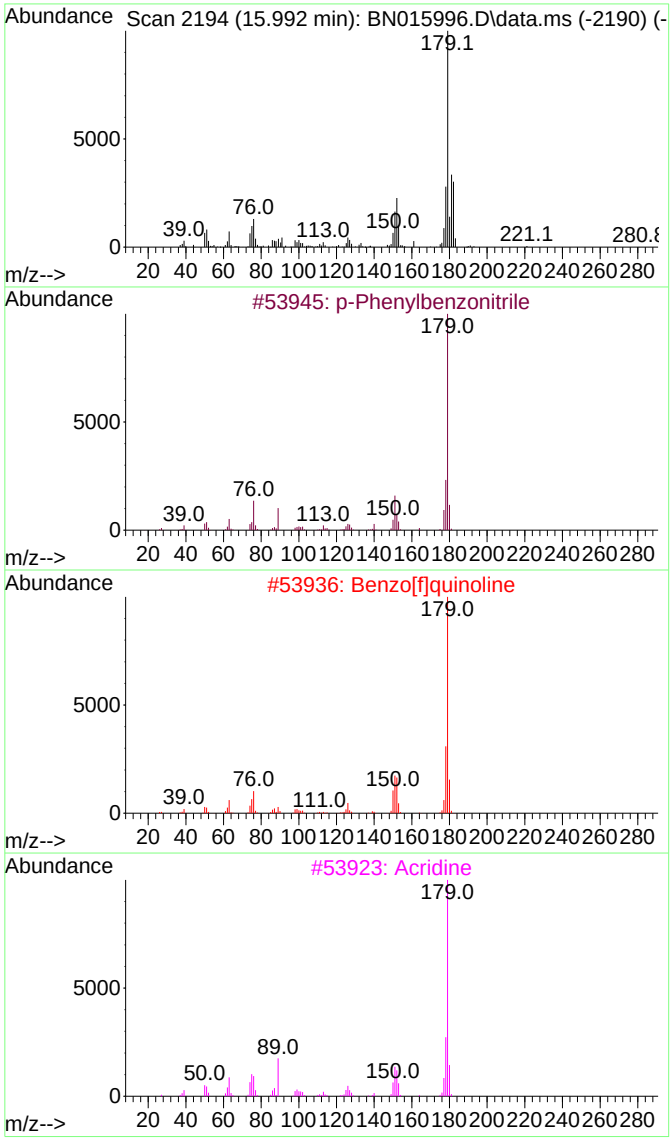
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

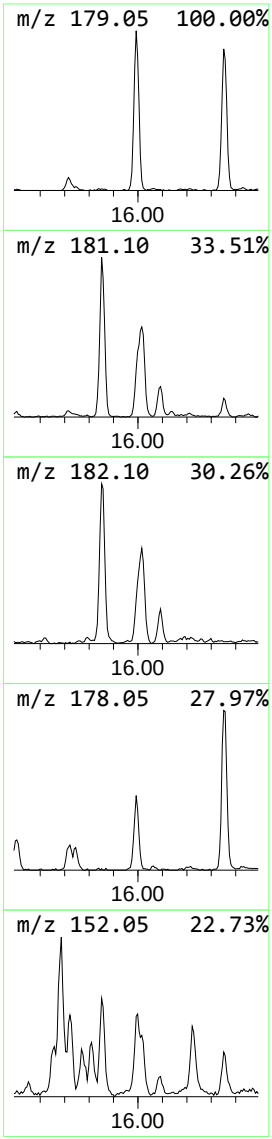
****

Peak Number 21 p-Phenylbenzonitrile Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.992	4.82 ng/ul	824244	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Phenylbenzonitrile	179	C13H9N	002920-38-9	83
2	Benzo[f]quinoline	179	C13H9N	000085-02-9	76
3	Acridine	179	C13H9N	000260-94-6	70
4	Phenanthridine	179	C13H9N	000229-87-8	70
5	Benzo[g]isoquinoline	179	C13H9N	000260-32-2	70





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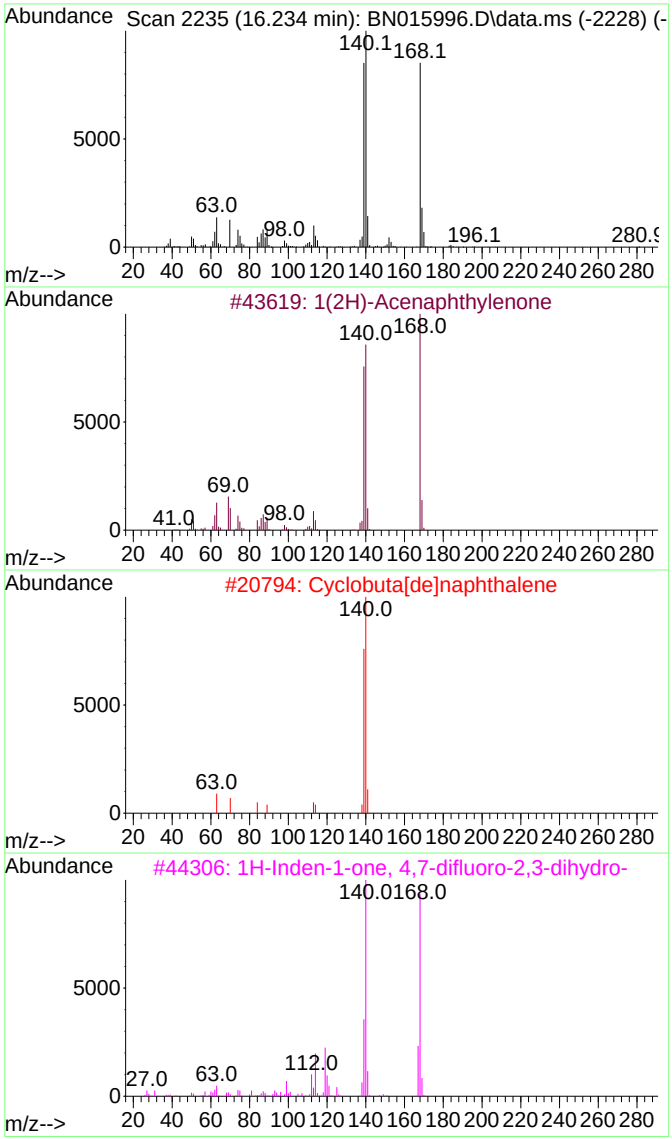
Quant Title : SVOA CALIBRATION

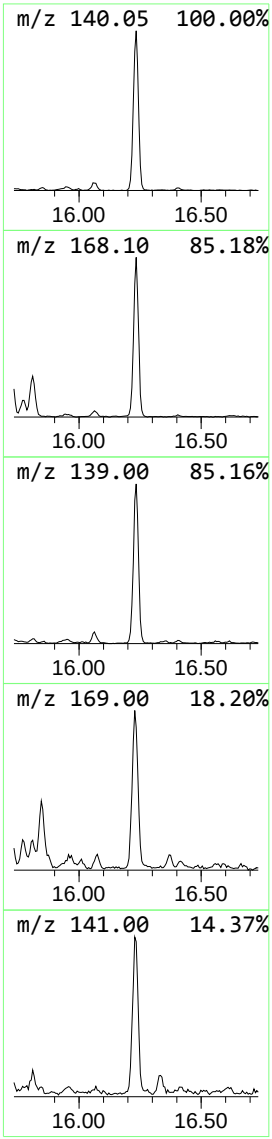
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 1(2H)-Acenaphthylenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.233	10.06 ng/ul	1720370	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	97
2	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	64
3	1H-Inden-1-one, 4,7-difluoro-2,3...	168	C9H6F2O	130408-16-1	58
4	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	017583-10-7	53
5	5,6,7,8-Tetrahydro-thiazolo[5,4-...	168	C7H8N2OS	1000317-75-4	53





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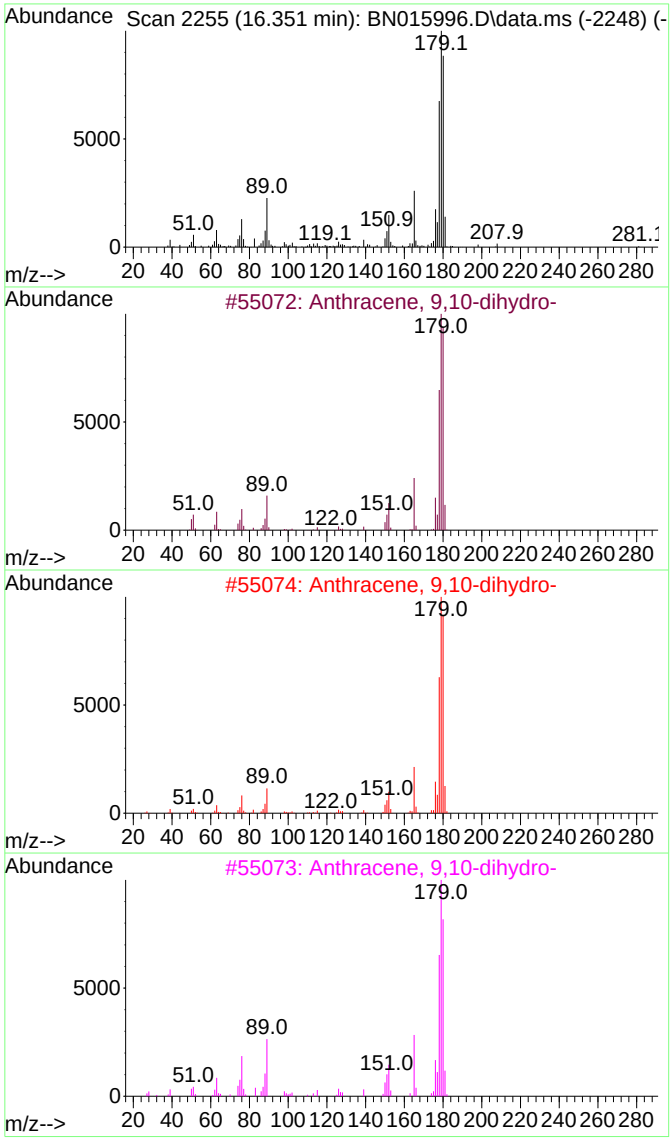
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

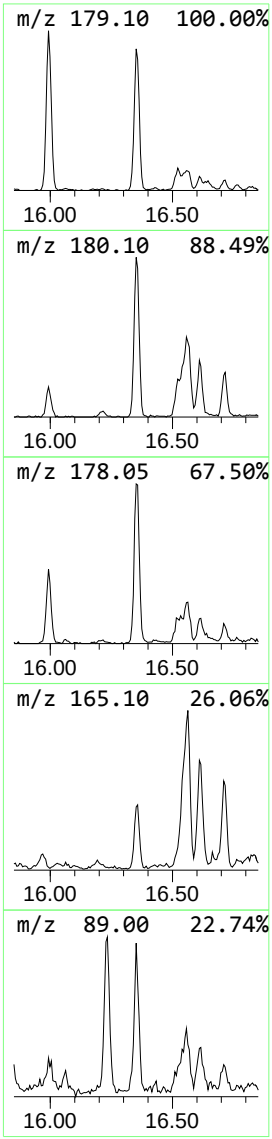
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 Anthracene, 9,10-dihydro- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.351	3.62 ng/ul	619286	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
4	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	94
5	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	92





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Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

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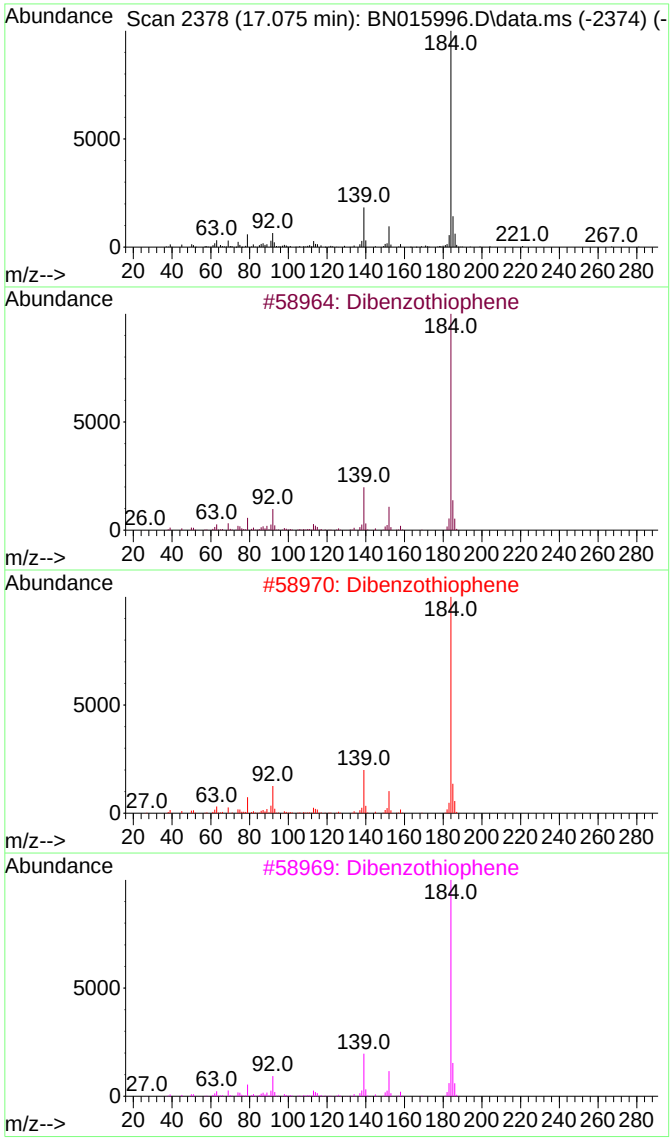
Quant Title : SVOA CALIBRATION

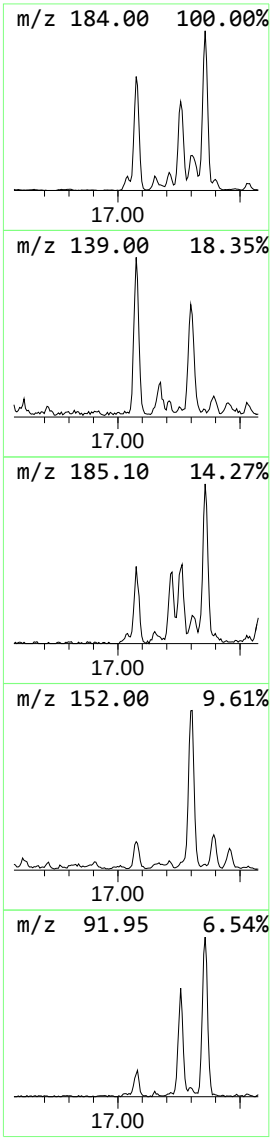
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 Dibenzothiophene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.075	3.73 ng/ul	637940	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

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Quant Title : SVOA CALIBRATION

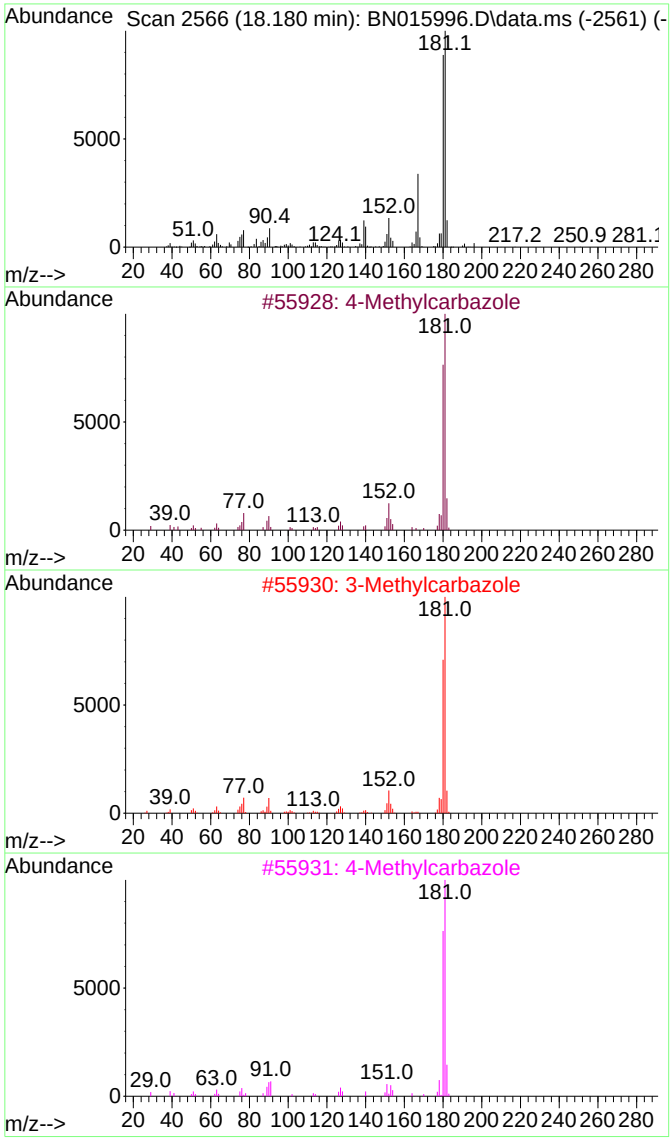
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

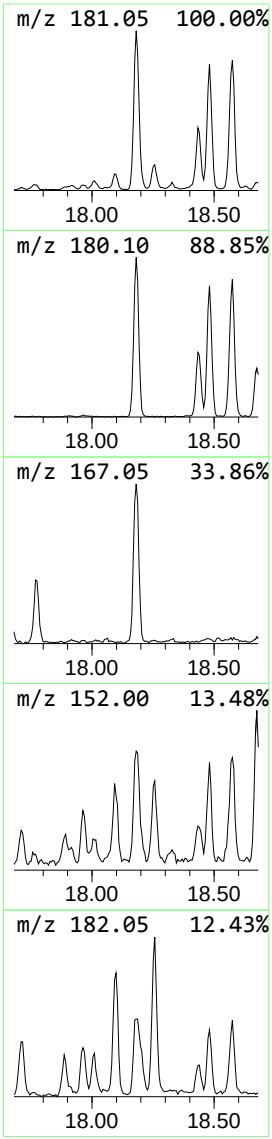
****

Peak Number 27 4-Methylcarbazole Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.180	7.08 ng/ul	1210940	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylcarbazole	181	C13H11N	003770-48-7	97
2	3-Methylcarbazole	181	C13H11N	004630-20-0	96
3	4-Methylcarbazole	181	C13H11N	003770-48-7	95
4	9H-Carbazole, 9-methyl-	181	C13H11N	001484-12-4	94
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	94





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

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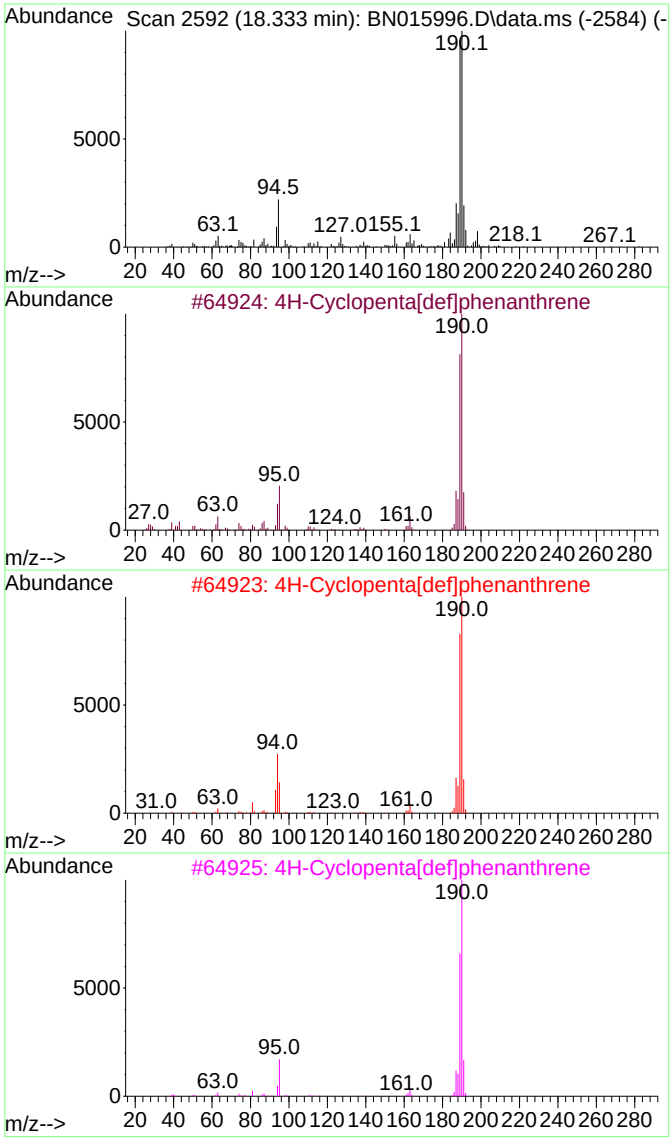
Quant Title : SVOA CALIBRATION

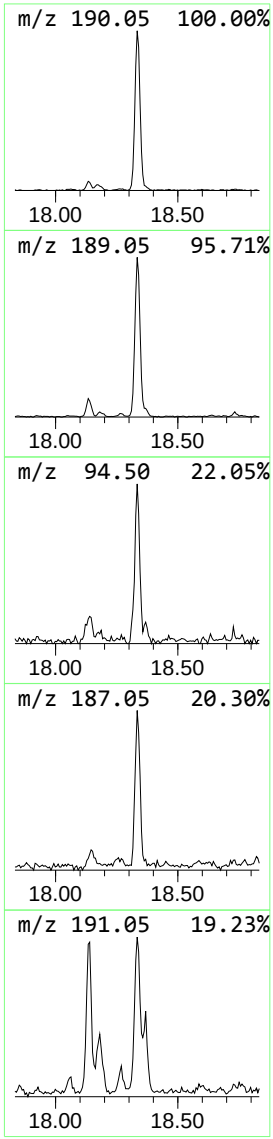
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 4H-Cyclopenta[def]phenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.333	5.92 ng/ul	1012160	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	80
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	64





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Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DBKE7

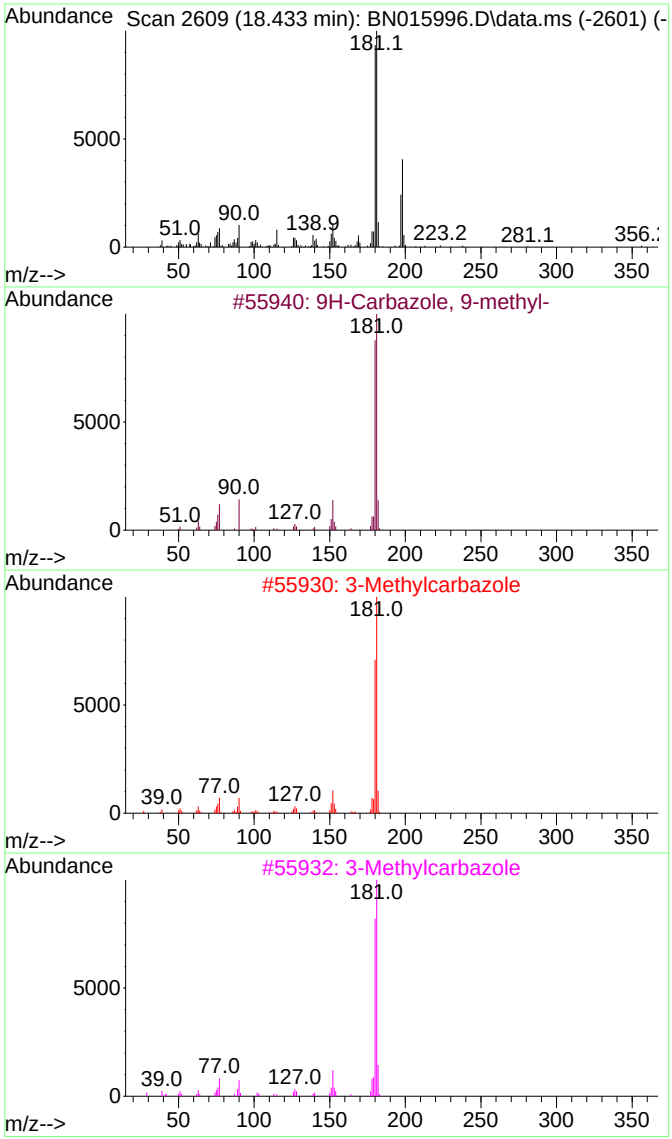
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

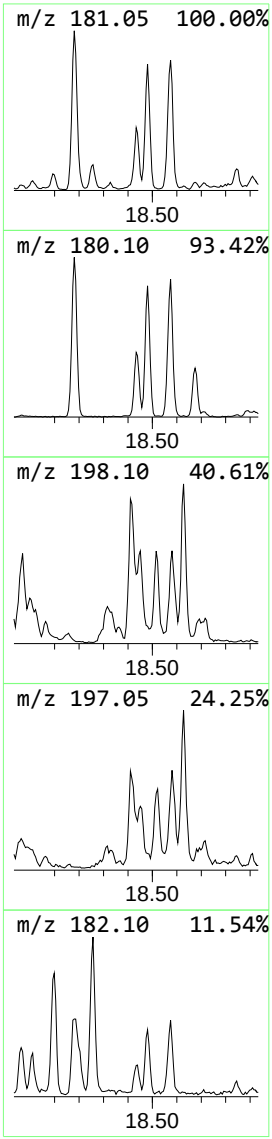
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 29 9H-Carbazole, 9-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.433	4.37 ng/ul	747293	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazole, 9-methyl-	181	C13H11N	001484-12-4	96
2	3-Methylcarbazole	181	C13H11N	004630-20-0	96
3	3-Methylcarbazole	181	C13H11N	004630-20-0	94
4	4-Methylcarbazole	181	C13H11N	003770-48-7	91
5	4aH-carbazole, 6-methyl-	181	C13H11N	1000404-86-1	90





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

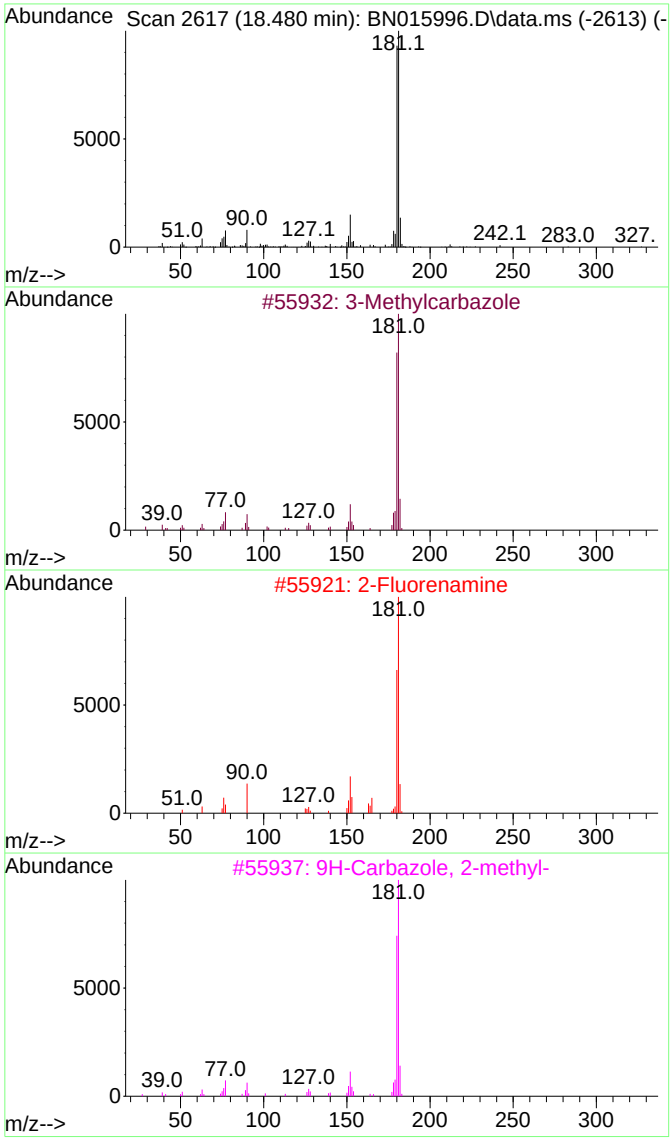
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

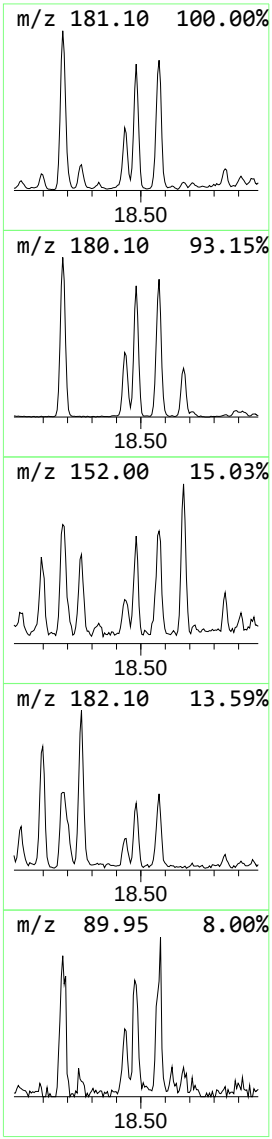
****

Peak Number 30 3-Methylcarbazole Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.480	4.25 ng/ul	726835	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	94
2	2-Fluorenamine	181	C13H11N	000153-78-6	91
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	91
4	1-Aminofluorene	181	C13H11N	006344-63-4	91
5	2-Fluorenamine	181	C13H11N	000153-78-6	90





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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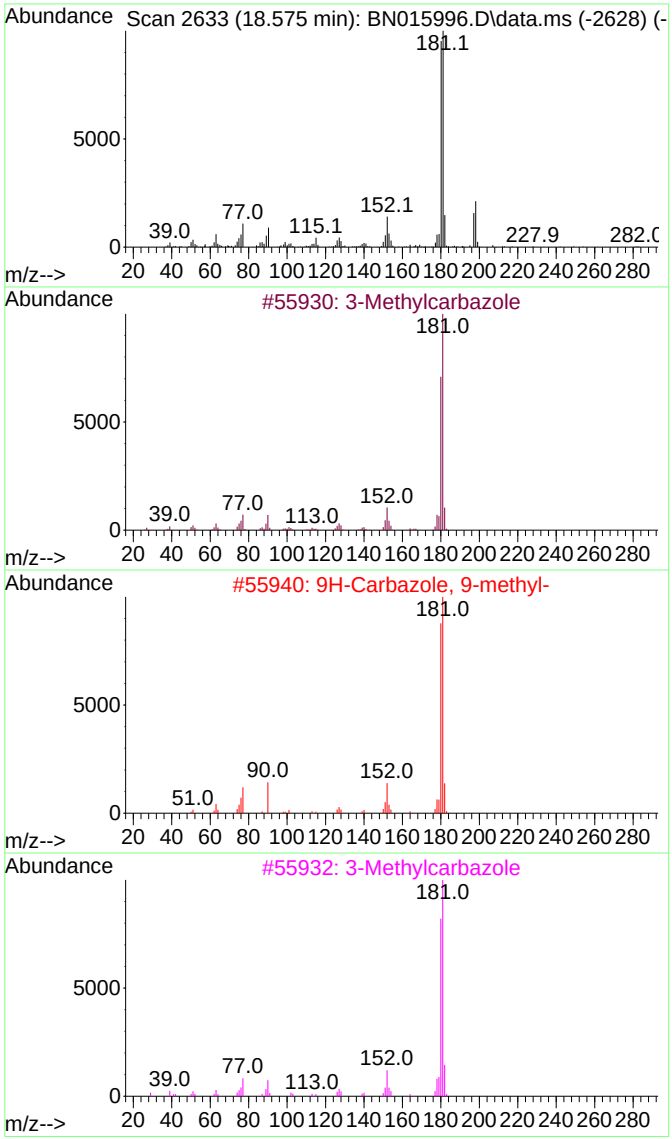
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

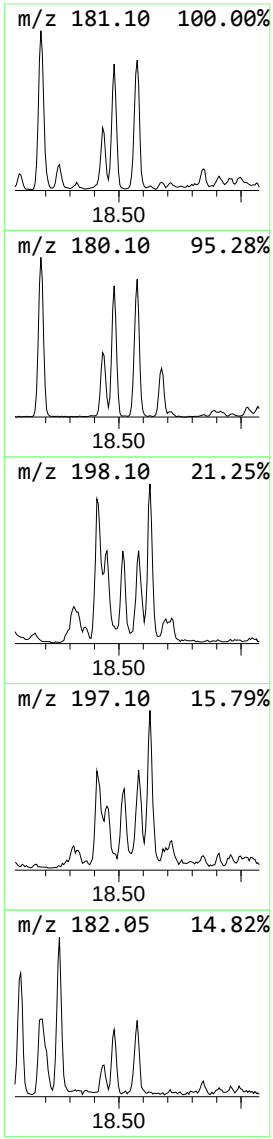
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 32 9H-Carbazole, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.575	5.99 ng/ul	1025160	Phenanthrene-d10	17.257

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	96
2	9H-Carbazole, 9-methyl-	181	C13H11N	001484-12-4	95
3	3-Methylcarbazole	181	C13H11N	004630-20-0	93
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	93
5	4-Methylcarbazole	181	C13H11N	003770-48-7	91





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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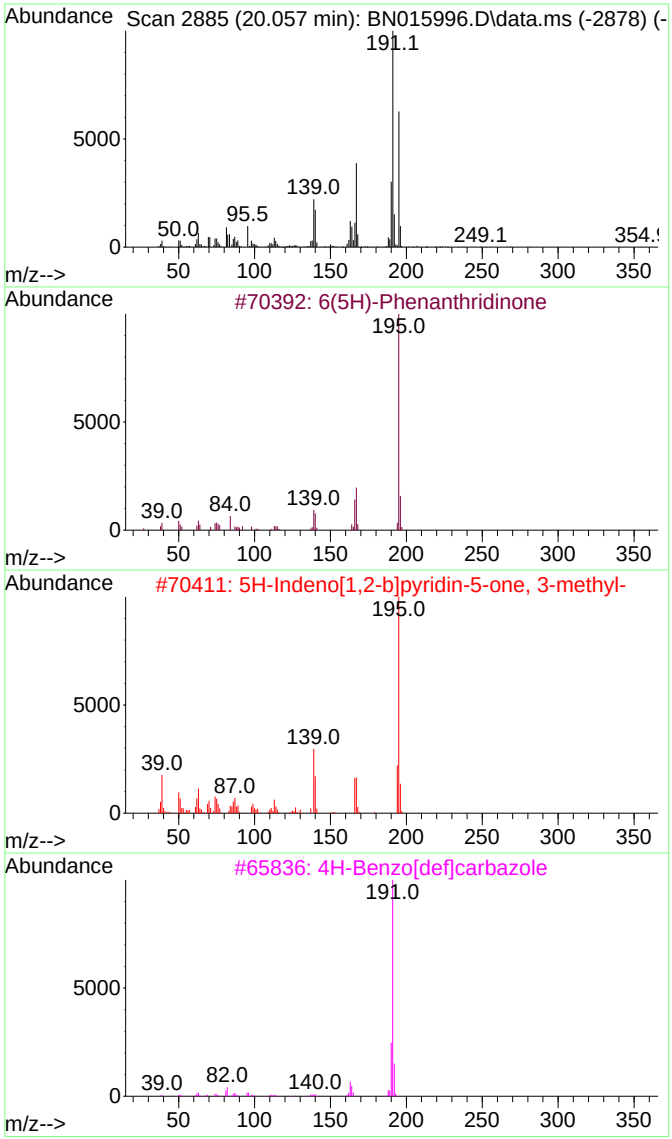
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

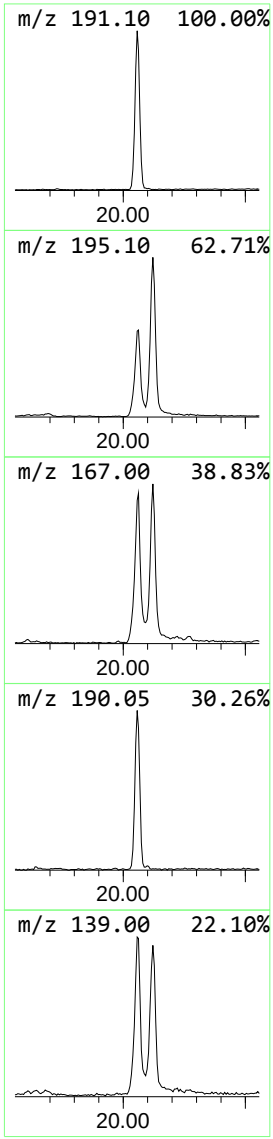
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 35 6(5H)-Phenanthridinone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.057	12.23 ng/ul	2460290	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	84
2	5H-Indeno[1,2-b]pyridin-5-one, 3...	195	C13H9NO	1000337-74-0	52
3	4H-Benzo[def]carbazole	191	C14H9N	000203-65-6	50
4	9(10H)-Acridinone	195	C13H9NO	000578-95-0	46
5	9(10H)-Acridinone	195	C13H9NO	000578-95-0	46





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Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

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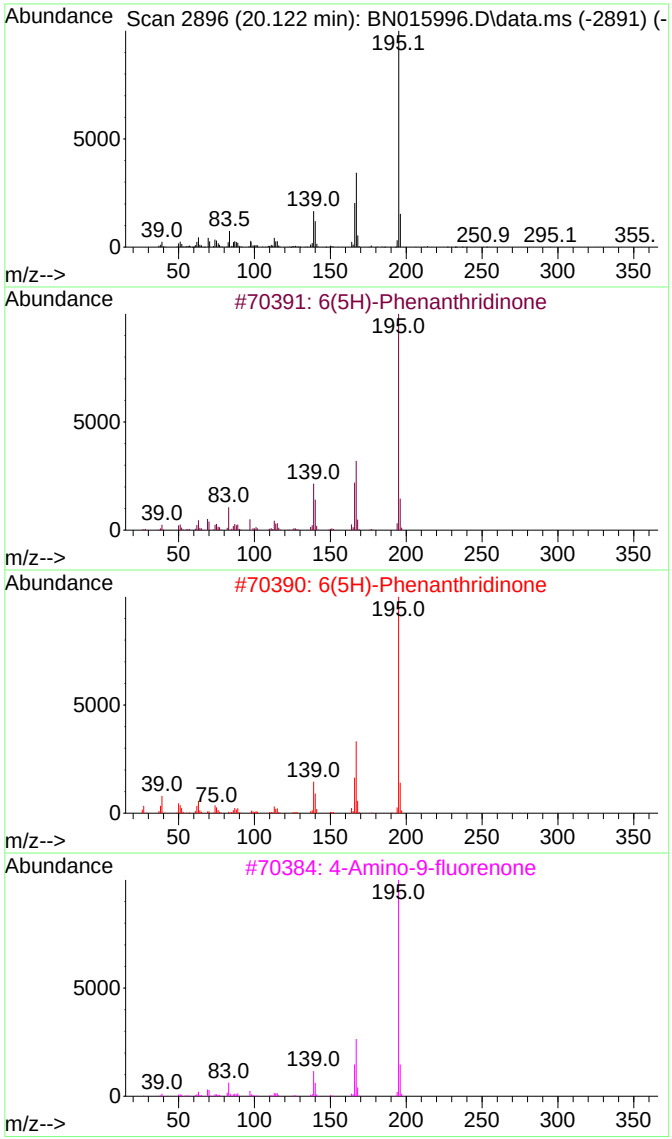
Quant Title : SVOA CALIBRATION

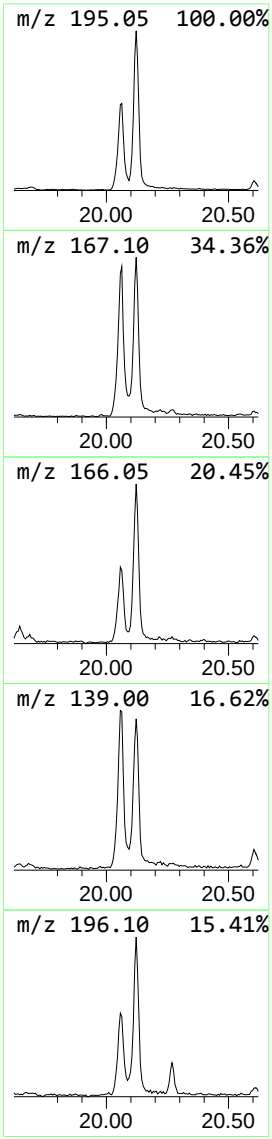
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 36 4-Amino-9-fluorenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.122	9.52 ng/ul	1914800	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	98
2	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	96
3	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	95
4	3-Acridinol	195	C13H9NO	007132-70-9	95
5	9(10H)-Acridinone	195	C13H9NO	000578-95-0	95





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : SVOA CALIBRATION

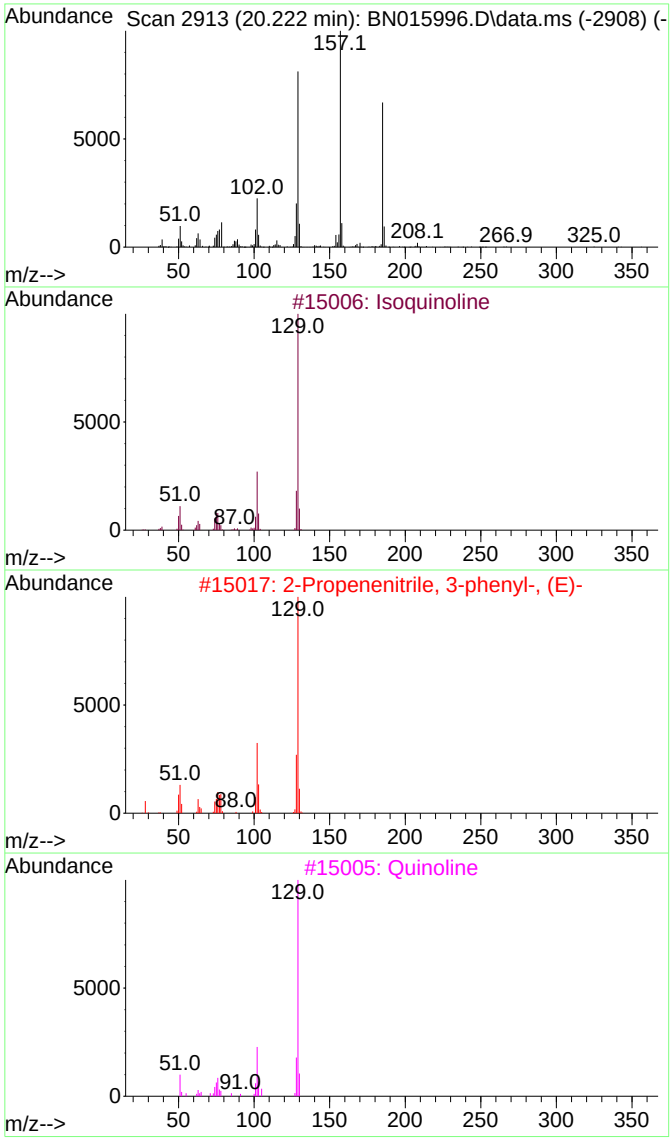
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

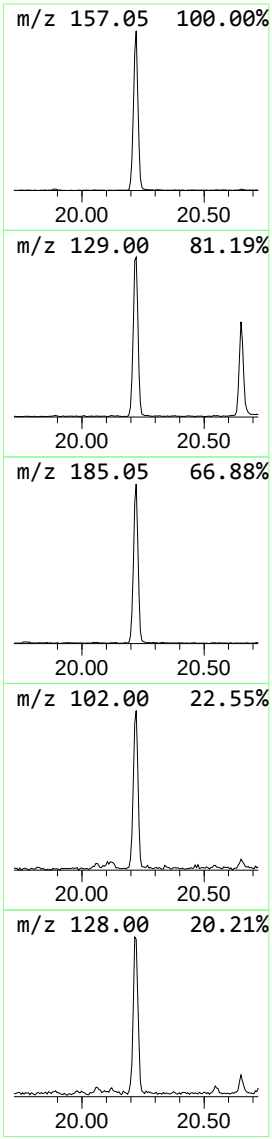
****

Peak Number 37 Isoquinoline Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.222	8.28 ng/ul	1665860	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoquinoline	129	C9H7N	000119-65-3	80
2	2-Propenenitrile, 3-phenyl-, (E)-	129	C9H7N	001885-38-7	60
3	Quinoline	129	C9H7N	000091-22-5	46
4	2-Propenenitrile, 3-phenyl-	129	C9H7N	004360-47-8	46
5	2-Propenenitrile, 3-phenyl-, (E)-	129	C9H7N	001885-38-7	46





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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

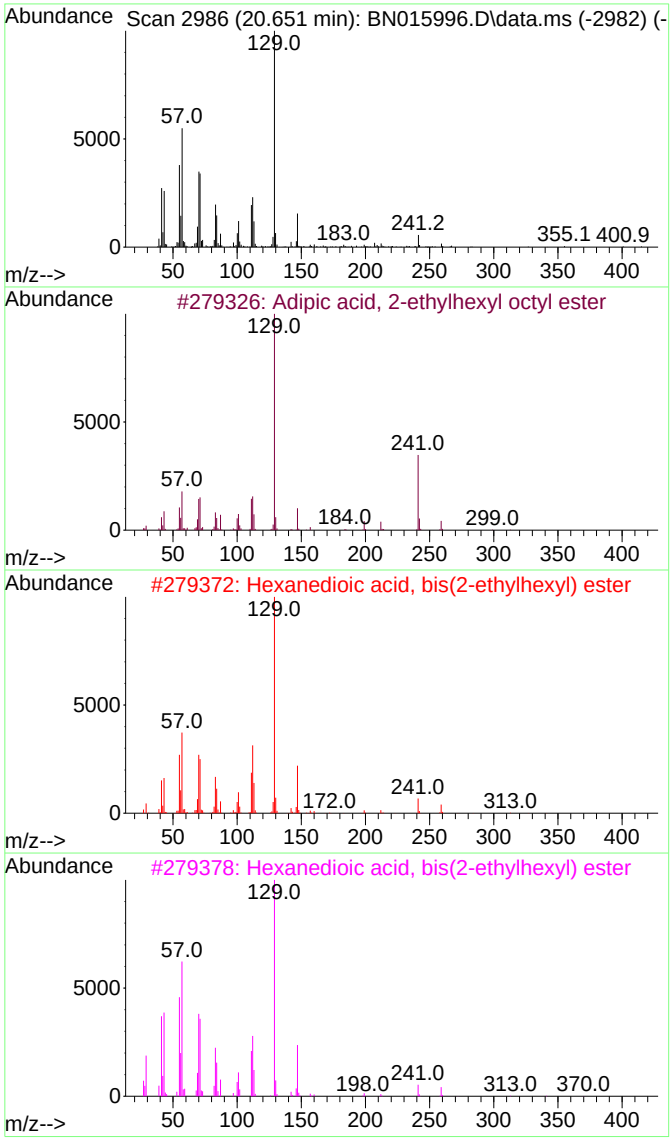
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

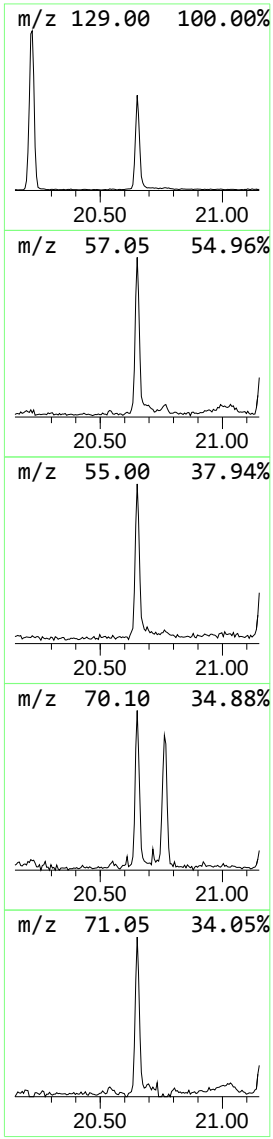
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 38 Adipic acid, 2-ethylhexyl o... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.651	4.56 ng/ul	916936	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Adipic acid, 2-ethylhexyl octyl ...	370	C22H42O4	1000324-48-6	91
2	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	90
3	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	90
4	Hexanedioic acid, dioctyl ester	370	C22H42O4	000123-79-5	90
5	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	86





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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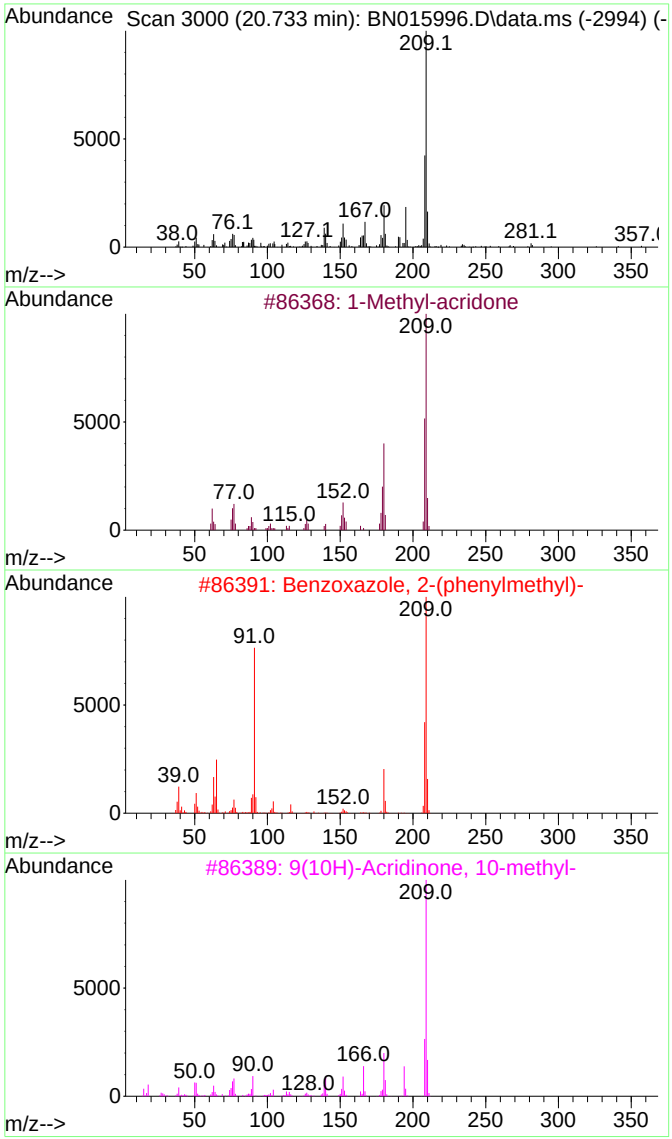
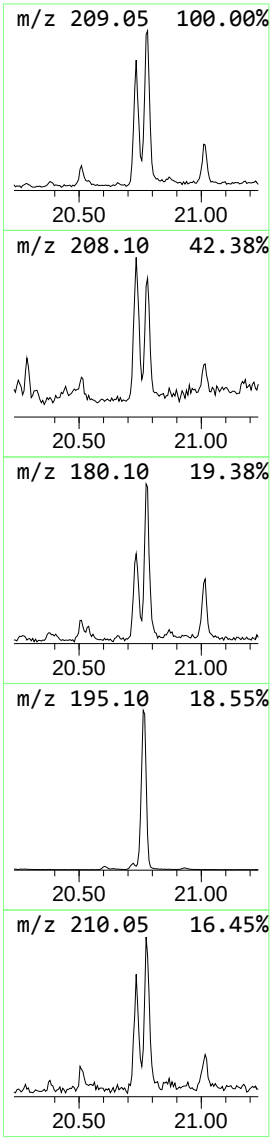
Peak Number 39 1-Methyl-acridone Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.733	2.92 ng/ul	587119	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-acridone	209	C14H11NO	065753-71-1	72
2	Benzoxazole, 2-(phenylmethyl)-	209	C14H11NO	002008-07-3	72
3	9(10H)-Acridinone, 10-methyl-	209	C14H11NO	000719-54-0	70
4	3,7-Dimethyl-2-azafluorenone	209	C14H11NO	019337-28-1	60
5	1H-Isoindol-1-one, 2,3-dihydro-2...	209	C14H11NO	005388-42-1	58





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Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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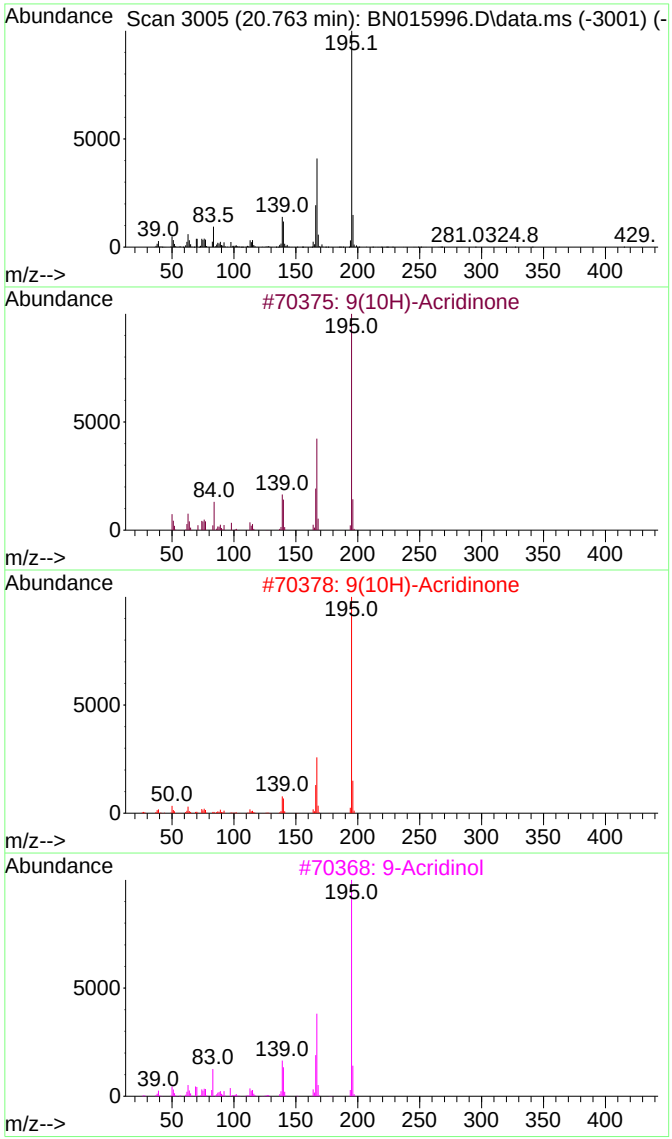
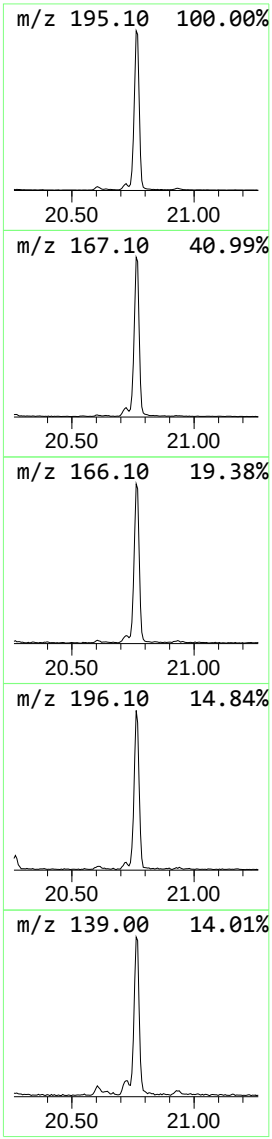
Peak Number 40 9(10H)-Acridinone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.763	23.77 ng/ul	4781550	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(10H)-Acridinone	195	C13H9NO	000578-95-0	98
2	9(10H)-Acridinone	195	C13H9NO	000578-95-0	97
3	9-Acridinol	195	C13H9NO	000643-62-9	96
4	9(10H)-Acridinone	195	C13H9NO	000578-95-0	96
5	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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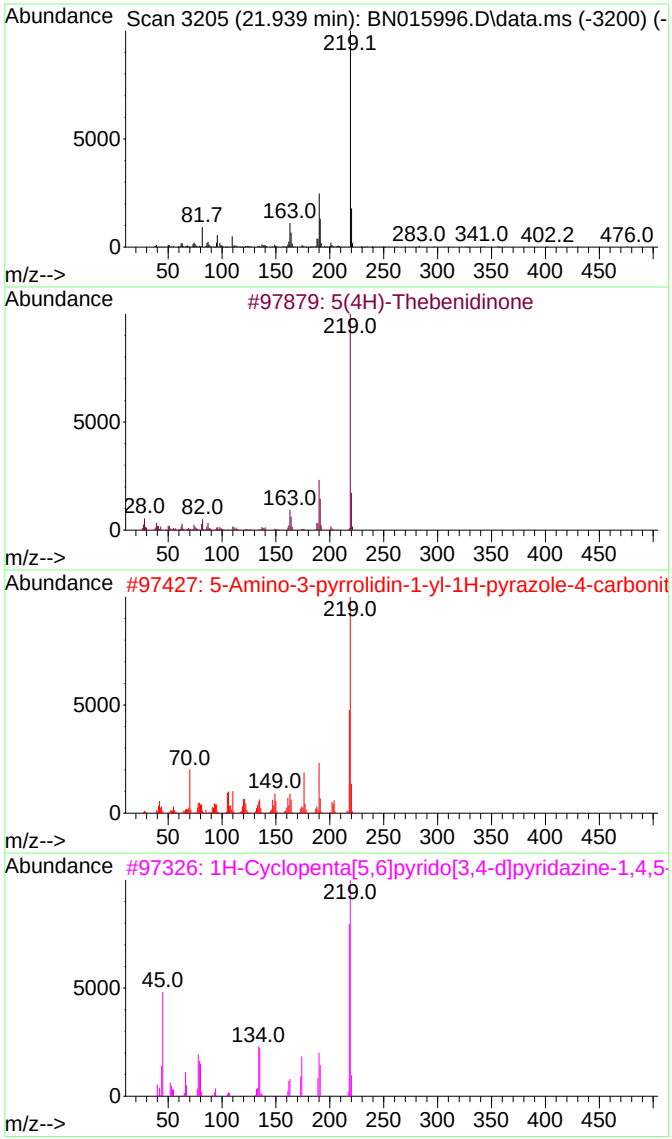
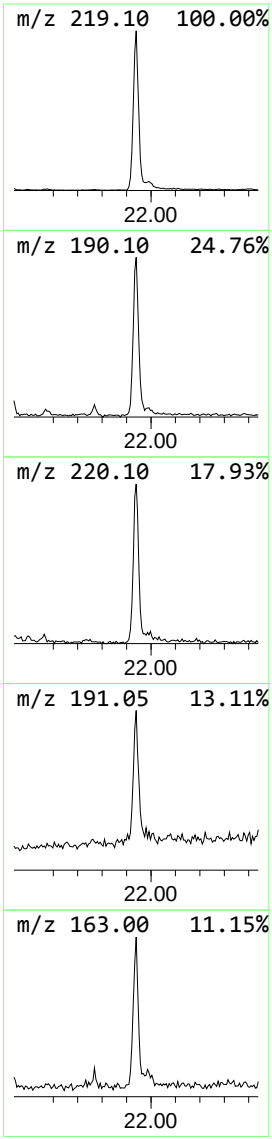
Peak Number 41 5(4H)-Thebenidinone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.939	4.65 ng/ul	936416	Chrysene-d12	21.445

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5(4H)-Thebenidinone	219	C15H9NO	064884-40-8	90
2	5-Amino-3-pyrrolidin-1-yl-1H-pyr...	219	C11H17N5	1000499-90-1	86
3	1H-Cyclopenta[5,6]pyrido[3,4-d]p...	219	C10H9N3O3	1000277-16-7	56
4	14-Azatetracyclo[7.6.1.0(2,7).0(...	219	C15H9NO	042326-31-8	53
5	1H-Pyrrole, 2,4-diphenyl-	219	C16H13N	003274-56-4	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082021\
Data File : BN015996.D
Acq On : 20 Aug 2021 21:26
Operator : CG/JU
Sample : M3448-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : DBKE7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Indane	8.252	52.0	ng/ul	4136550	1	7.875	1592010	20.0
Benzofuran, 7-m...	9.234	2.8	ng/ul	222885	1	7.875	1592010	20.0
3-Phenyl-2-prop...	9.352	2.9	ng/ul	348161	2	10.675	2372880	20.0
Benzene, 2-ethe...	9.928	3.0	ng/ul	355534	2	10.675	2372880	20.0
Benzene, (1-met...	10.075	11.1	ng/ul	1314590	2	10.675	2372880	20.0
Benzo[b]thiophe...	11.787	3.4	ng/ul	397765	2	10.675	2372880	20.0
Benzo[b]thiophe...	12.234	6.8	ng/ul	802979	2	10.675	2372880	20.0
Naphthalene, 1-...	13.569	5.3	ng/ul	842689	3	14.516	3204310	20.0
Naphthalene, 2,...	13.687	5.1	ng/ul	821887	3	14.516	3204310	20.0
Naphthalene, 2,...	13.834	8.8	ng/ul	1403890	3	14.516	3204310	20.0
Naphthalene, 1,...	14.069	4.3	ng/ul	693350	3	14.516	3204310	20.0
Naphthalene, 1-...	15.687	5.1	ng/ul	821216	3	14.516	3204310	20.0
1,1'-Biphenyl, ...	15.722	4.7	ng/ul	749228	3	14.516	3204310	20.0
[1,1'-Biphenyl]...	15.851	4.2	ng/ul	673577	3	14.516	3204310	20.0
p-Phenylbenzoni...	15.992	4.8	ng/ul	824244	4	17.257	3421770	20.0
1(2H)-Acenaphth...	16.233	10.1	ng/ul	1720370	4	17.257	3421770	20.0
Anthracene, 9,1...	16.351	3.6	ng/ul	619286	4	17.257	3421770	20.0
Dibenzothiophene	17.075	3.7	ng/ul	637940	4	17.257	3421770	20.0
4-Methylcarbazole	18.180	7.1	ng/ul	1210940	4	17.257	3421770	20.0
4H-Cyclopenta[d...	18.333	5.9	ng/ul	1012160	4	17.257	3421770	20.0
9H-Carbazole, 9...	18.433	4.4	ng/ul	747293	4	17.257	3421770	20.0
3-Methylcarbazole	18.480	4.3	ng/ul	726835	4	17.257	3421770	20.0
9H-Carbazole, 2...	18.575	6.0	ng/ul	1025160	4	17.257	3421770	20.0
6(5H)-Phenanthr...	20.057	12.2	ng/ul	2460290	5	21.445	4023580	20.0
4-Amino-9-fluor...	20.122	9.5	ng/ul	1914800	5	21.445	4023580	20.0
Isoquinoline	20.222	8.3	ng/ul	1665860	5	21.445	4023580	20.0
Adipic acid, 2-...	20.651	4.6	ng/ul	916936	5	21.445	4023580	20.0
1-Methyl-acridone	20.733	2.9	ng/ul	587119	5	21.445	4023580	20.0
9(10H)-Acridinone	20.763	23.8	ng/ul	4781550	5	21.445	4023580	20.0
5(4H)-Thebenidi...	21.939	4.7	ng/ul	936416	5	21.445	4023580	20.0