LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_F\METHODS\8270-BF110715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.933	245	249	251	rBV	2014129	2885927	40.47%	2.334%
2	5.367	285	287	290	rBV	3892388	4087644	57.32%	3.307%
3	6.030	342	345	353	rBV	87507	208990	2.93%	0.169%
4	6.407	375	378	380	rBV	3288918	3921374	54.99%	3.172%
5	6.533	386	389	390	rBV	3791211	5032616	70.57%	4.071%
6	6.670	399	401	403	rBV	596673	509315	7.14%	0.412%
7	6.750	406	408	410	rVB	1161539	1017494	14.27%	0.823%
8	6.910	419	422	424	rBV	4155134	3590724	50.35%	2.905%
9	7.070	434	436	439	rBV	184377	162204	2.27%	0.131%
10	7.150	439	443	450	rVB2	502084	648888	9.10%	0.525%
11	7.276	450	454	455	rBV	258250	303864	4.26%	0.246%
12	7.322	455	458	460	rVB	3367780	3574397	50.13%	2.891%
13	7.584	479	481	484	rBV	176087	176063	2.47%	0.142%
14	7.664	486	488	493	rBV	515703	577894	8.10%	0.467%
15	7.847	501	504	506	rBV	307930	411549	5.77%	0.333%
16	8.042	519	521	522	rVV	1296382	1378284	19.33%	1.115%
17	8.064	522	523	526	rVB3	134571	140605	1.97%	0.114%
18	8.396	550	552	556	rVB2	763184	1370632	19.22%	1.109%
19	8.487	556	560	561	rBV2	106759	220621	3.09%	0.178%
20	8.510	561	562	563	rVV	248894	180855	2.54%	0.146%
21	8.533	563	564	567	rVB	387570	445123	6.24%	0.360%
22	8.693	575	578	581	rBV2	138686	287014	4.02%	0.232%
23	8.750	581	583	584	rVV2	179636	251860	3.53%	0.204%
24	8.807	584	588	590	rVV2	1759987	2096119	29.39%	1.696%
25	8.865	590	593	594	rVV2	197592	338956	4.75%	0.274%
26	8.910	594	597	598	rVV	404956	541694	7.60%	0.438%
27	9.013	601	606	610	rVV4	377176	970723	13.61%	0.785%
28	9.082	610	612	613	rVV	924927	980745	13.75%	0.793%
29	9.116	613	615	617	rVV	5679963	6997419	98.13%	5.660%
30	9.162	617	619	620	rVV	185574	179159	2.51%	0.145%
31	9.219	620	624	626	rVV3	772859	1499658	21.03%	1.213%
32	9.253	626	627	630	rVV	498104	605642	8.49%	0.490%
33	9.333	632	634	636	rVV2	261883	377485	5.29%	0.305%
34	9.367	636	637	638	rVV	281093	281826	3.95%	0.228%

LSC Area Percent Report

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Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_F\METHODS\8270-BF110715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.402	638	640	641	rVV	252397	358762	5.03%	0.290%
36	9.447	641	644	648	rVV2	642858	1146866	16.08%	0.928%
37	9.562	650	654	656	rVV2	988500	1699078	23.83%	1.374%
38	9.607	656	658	659	rVV	425015	482371	6.76%	0.390%
39	9.642	659	661	663	rVV3	420613	704404	9.88%	0.570%
40	9.722	663	668	669	rVV	871718	1195432	16.76%	0.967%
41	9.756	669	671	672	rVV2	187199	294733	4.13%	0.238%
42	9.790	672	674	676	rVV	2277226	2344257	32.87%	1.896%
43	9.825	676	677	678	rVV	788015	663005	9.30%	0.536%
44	9.859	678	680	682	rVV	828060	958278	13.44%	0.775%
45	9.928	684	686	690	rVV2	702366	1364602	19.14%	1.104%
46	9.996	690	692	696	rVV2	648858	958322	13.44%	0.775%
47	10.076	696	699	700	rVV2	248019	383881	5.38%	0.311%
48	10.110	700	702	703	rVV	218830	249524	3.50%	0.202%
49	10.145	703	705	707	rVV2	231867	589107	8.26%	0.477%
50	10.179	707	708	709	rVV	468077	401781	5.63%	0.325%
51	10.213	709	711	714	rVV3	310058	582875	8.17%	0.472%
52	10.270	714	716	718	rVV	710040	958228	13.44%	0.775%
53	10.339	718	722	725	rVV	1597013	2278366	31.95%	1.843%
54	10.408	725	728	731	rVV3	205285	537934	7.54%	0.435%
55	10.476	731	734	736	rVV	685064	889188	12.47%	0.719%
56	10.533	736	739	740	rVV2	428044	715127	10.03%	0.578%
57	10.579	740	743	745	rVV2	3537654	5003108	70.16%	4.047%
58	10.613	745	746	752	rVV	232850	534772	7.50%	0.433%
59	10.705	752	754	756	rVV	2251777	2308835	32.38%	1.868%
60	10.830	760	765	766	rVV2	775073	1778175	24.94%	1.438%
61	10.876	766	769	772	rVV2	2865201	4209227	59.03%	3.405%
62	10.968	776	777	780	rVV3	115310	288926	4.05%	0.234%
63	11.082	780	787	789	rVV2	2573795	4438928	62.25%	3.591%
64	11.128	789	791	792	rVV	319433	485741	6.81%	0.393%
65	11.162	792	794	797	rVV	473665	794209	11.14%	0.642%
66	11.230	797	800	801	rVV2	340799	630097	8.84%	0.510%
67	11.276	801	804	805	rVV	2103676	2832665	39.72%	2.291%
68	11.299	805	806	807	rVV	2540548	1984071	27.82%	1.605%
69	11.333	807	809	811	rVV3	743042	1352427	18.97%	1.094%
70	11.379	811	813	815	rVV2	452819	945423	13.26%	0.765%
71	11.459	818	820	821	rVV	100837	200382	2.81%	0.162%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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 >
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.505	821	824	827	rVV2	2462528	4200670	58.91%	3.398%
73	11.573	827	830	832	rVV	861079	1400200	19.64%	1.133%
74	11.608	832	833	836	rVV2	746979	749407	10.51%	0.606%
75	11.665	836	838	841	rVV4	217104	529263	7.42%	0.428%
76	11.768	845	847	849	rVV	213346	300424	4.21%	0.243%
77	11.802	849	850	853	rVV2	371480	786339	11.03%	0.636%
78	11.848	853	854	856	rVV2	930469	1103386	15.47%	0.893%
79	11.882	856	857	859	rVV	563889	527459	7.40%	0.427%
80	11.951	861	863	864	rVV2	201659	253682	3.56%	0.205%
81	11.996	864	867	871	rVV3	282334	751756	10.54%	0.608%
82	12.088	873	875	877	rVB	1387841	1527296	21.42%	1.235%
83	12.328	894	896	899	rBV	1166909	1443082	20.24%	1.167%
84	12.408	900	903	905	rBV	173902	257356	3.61%	0.208%
85	12.476	905	909	911	rBV2	780180	1149376	16.12%	0.930%
86	12.522	911	913	916	rVV2	201557	345966	4.85%	0.280%
87	12.579	916	918	920	rVV	224550	312546	4.38%	0.253%
88	12.636	920	923	924	rVV3	161203	287661	4.03%	0.233%
89	12.671	924	926	927	rVV	905075	996683	13.98%	0.806%
90	12.705	927	929	930	rVV	461977	474346	6.65%	0.384%
91	12.762	930	934	937	rVB3	97724	274967	3.86%	0.222%
92	12.865	940	943	945	rBV	6587899	7130912	100.00%	5.768%
93	12.922	947	948	950	rVB2	163953	145110	2.03%	0.117%
94	12.968	950	952	955	rBV3	67602	152715	2.14%	0.124%
95	13.025	955	957	960	rVB	432324	468218	6.57%	0.379%
96	13.105	961	964	965	rBV2	137625	193565	2.71%	0.157%
97	13.459	991	995	999	rBV	401847	503250	7.06%	0.407%
98	13.745	1017	1020	1025	rBV3	85866	208034	2.92%	0.168%
99	13.905	1031	1034	1036	rBV	2036188	2063614	28.94%	1.669%
100	15.299	1153	1156	1159	rBV	1075545	1287228	18.05%	1.041%

Sum of corrected areas: 123620981

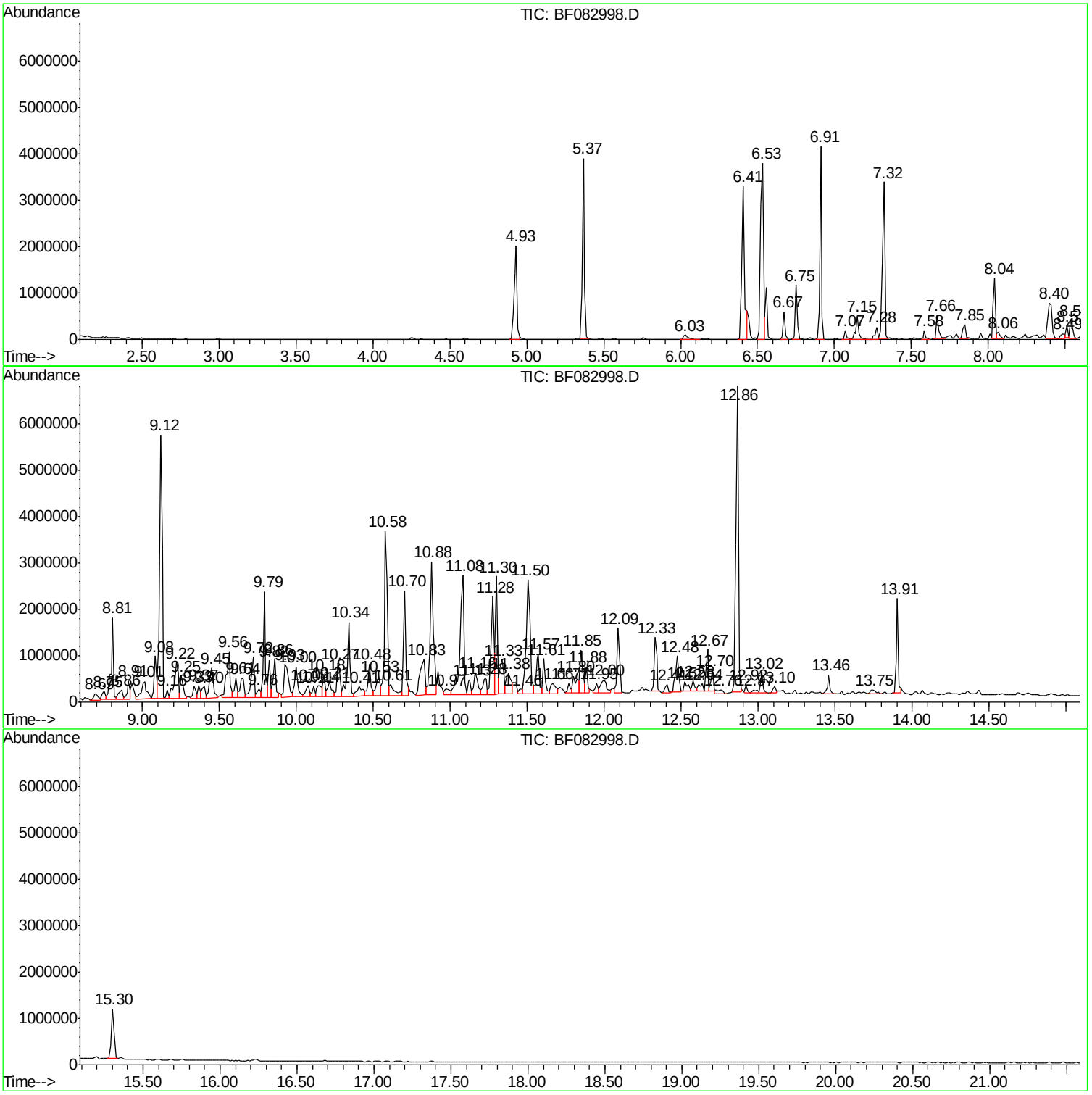
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
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Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

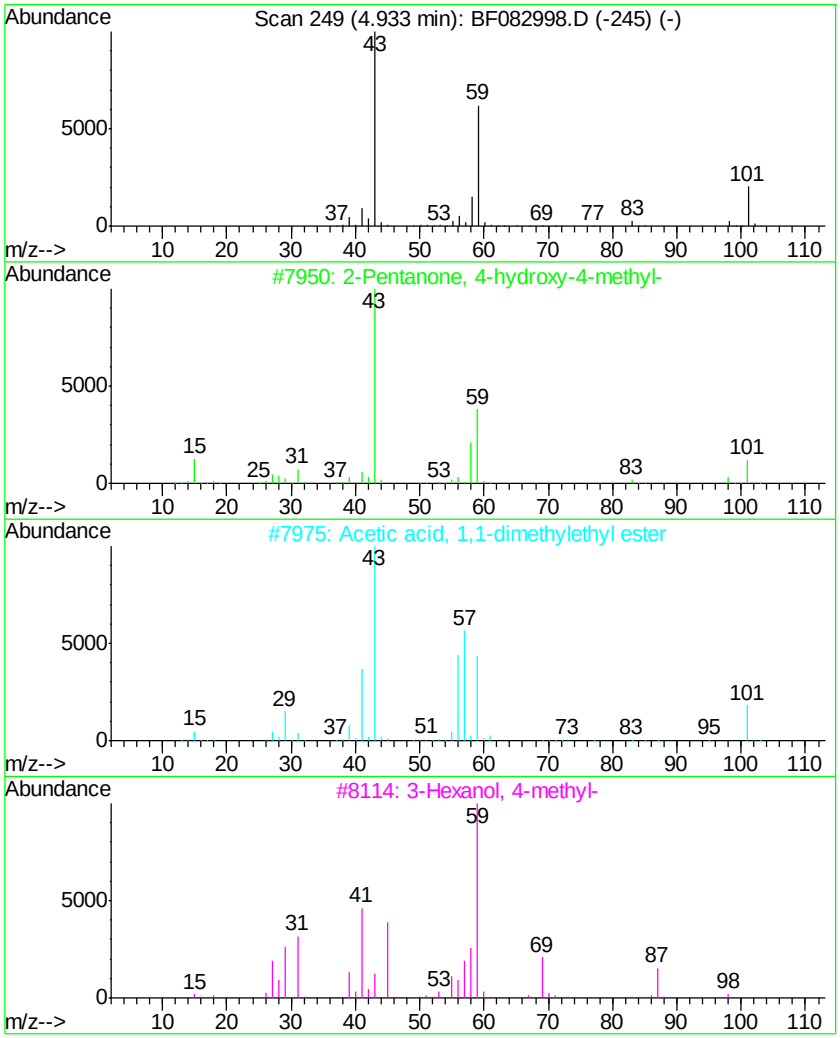
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

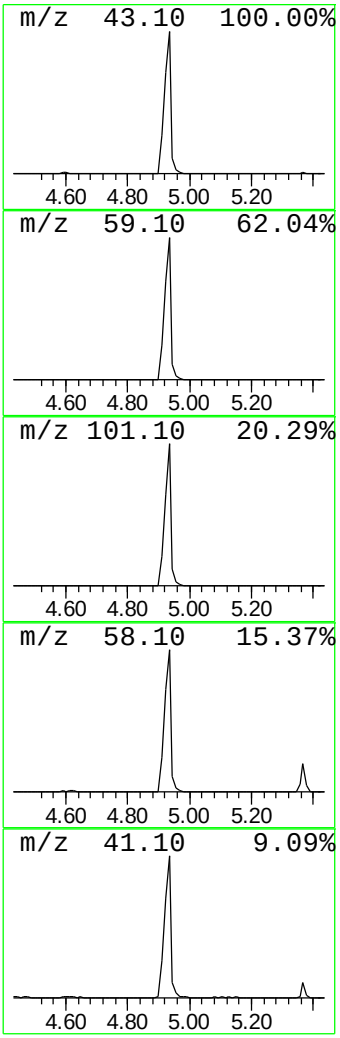
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.93	56.73 ng	2885930	1,4-Dichlorobenzene-d4	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
4	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	28
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

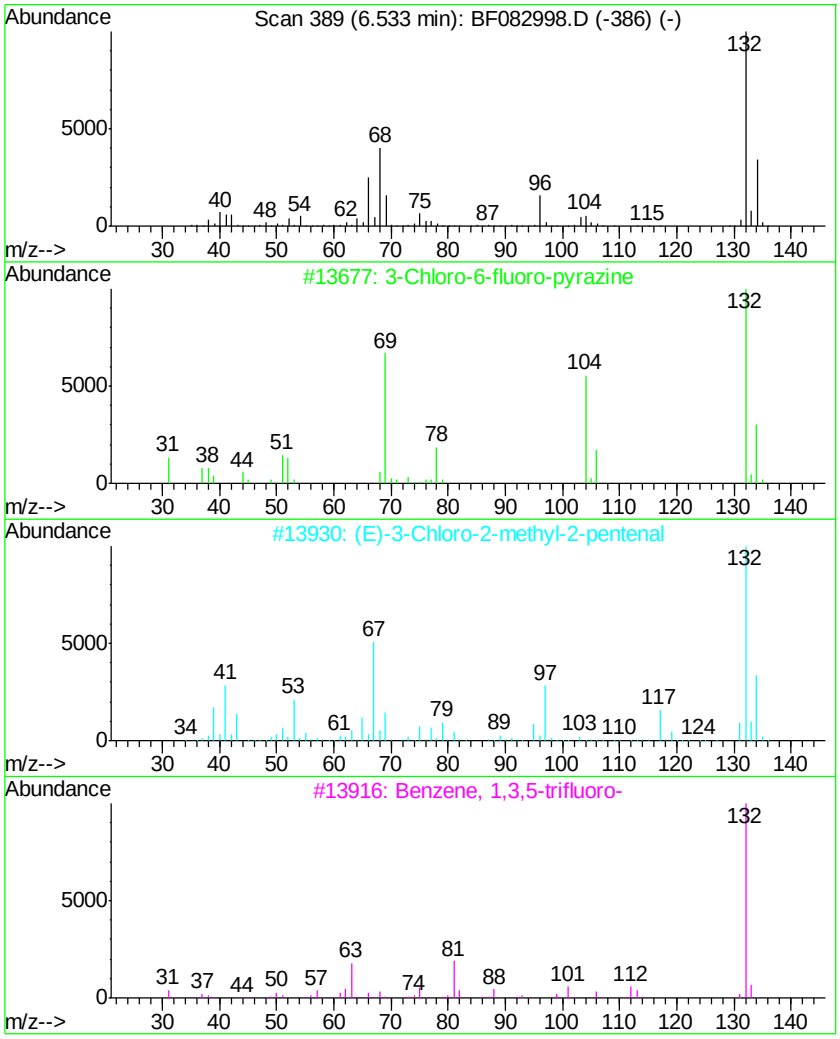
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

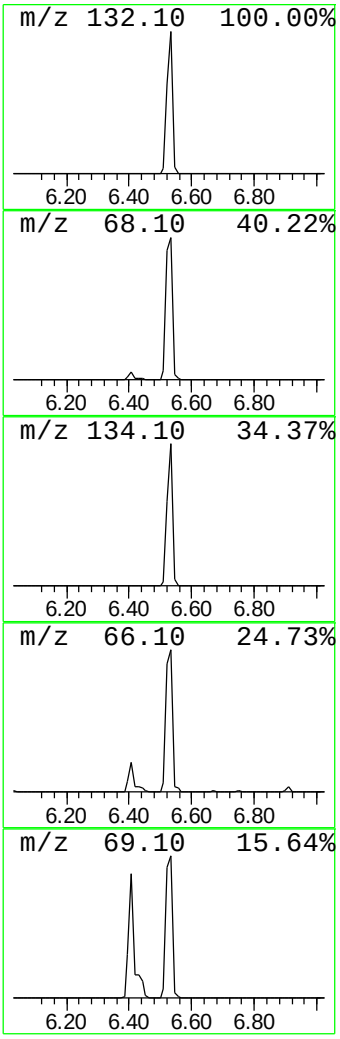
****

Peak Number 2 unknown6.53 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	98.92 ng	5032620	1,4-Dichlorobenzene-d4	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





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Operator : UM/IZ
Sample : G4423-03
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Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

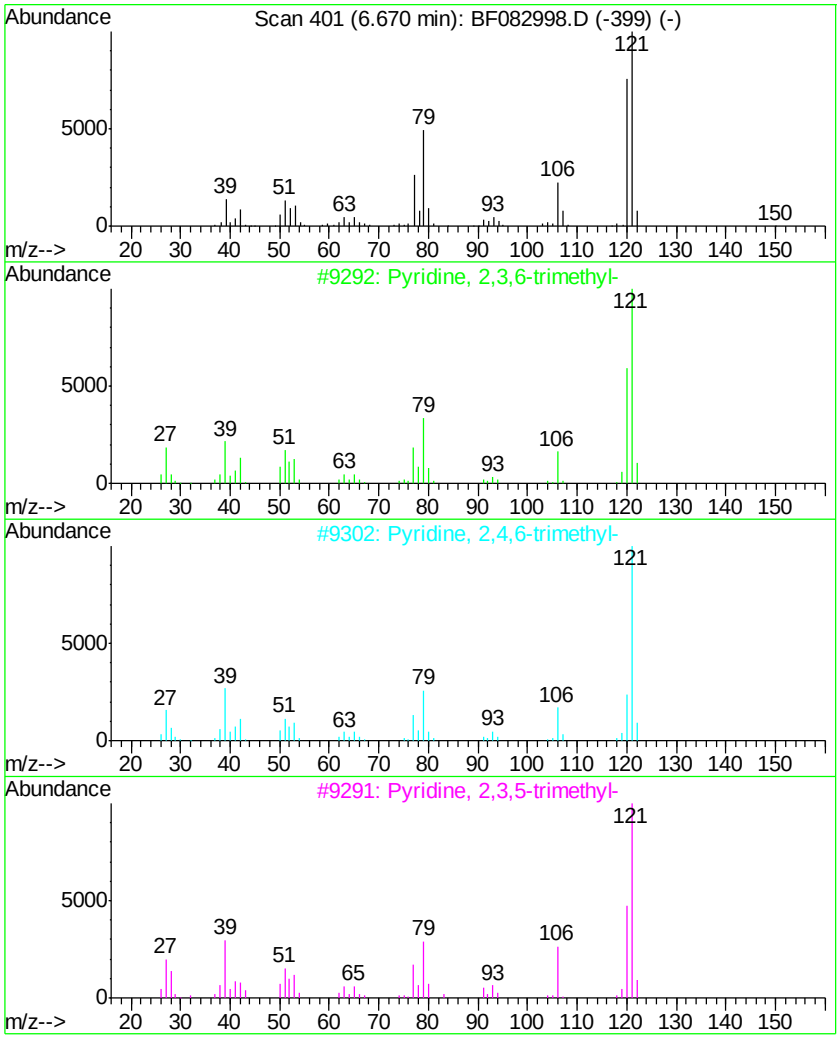
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

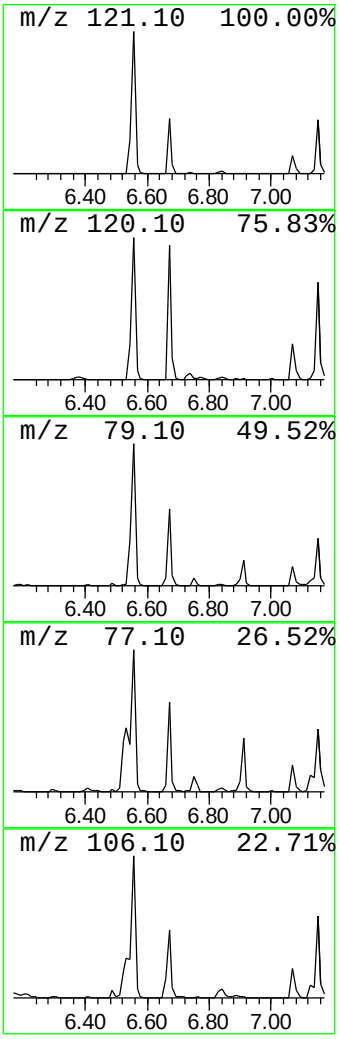
****

Peak Number 3 Pyridine, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	10.01 ng	509315	1,4-Dichlorobenzene-d4	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,3,6-trimethyl-	121	C8H11N	001462-84-6	87
2	Pyridine, 2,4,6-trimethyl-	121	C8H11N	000108-75-8	76
3	Pyridine, 2,3,5-trimethyl-	121	C8H11N	000695-98-7	70
4	1,2-Dimethyl-5-vinylpyrrole	121	C8H11N	075275-61-5	64
5	Benzenamine, 3,4-dimethyl-	121	C8H11N	000095-64-7	59





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

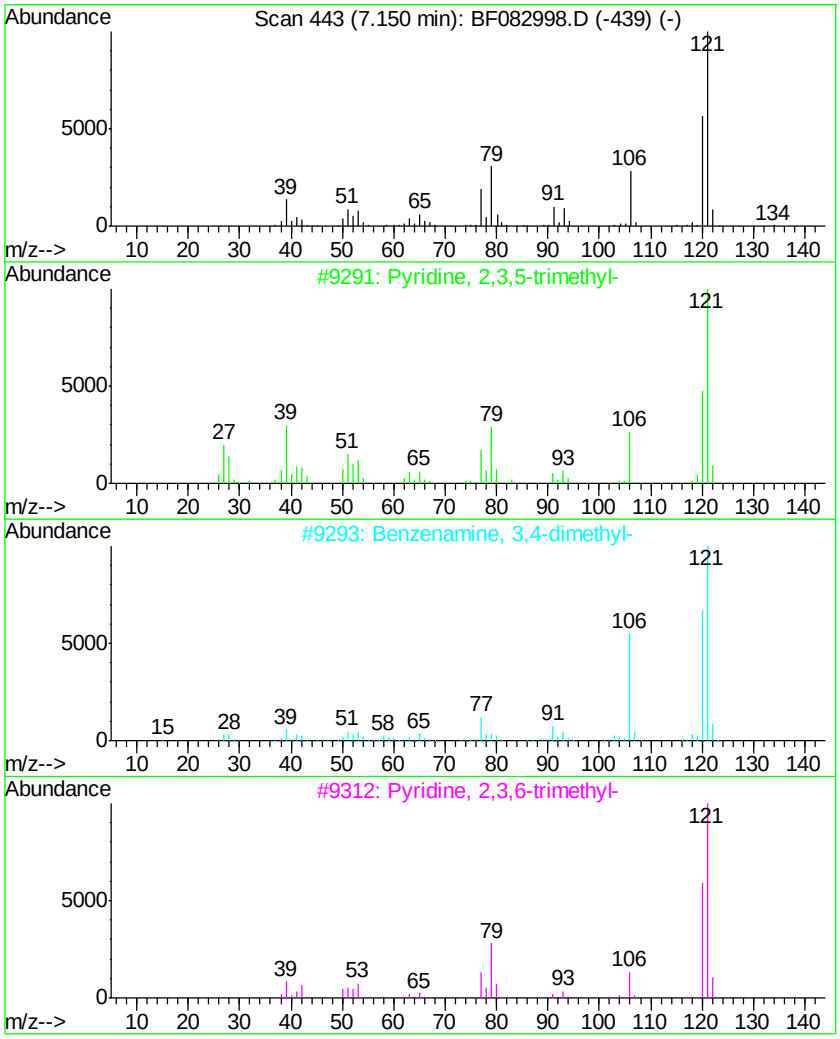
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

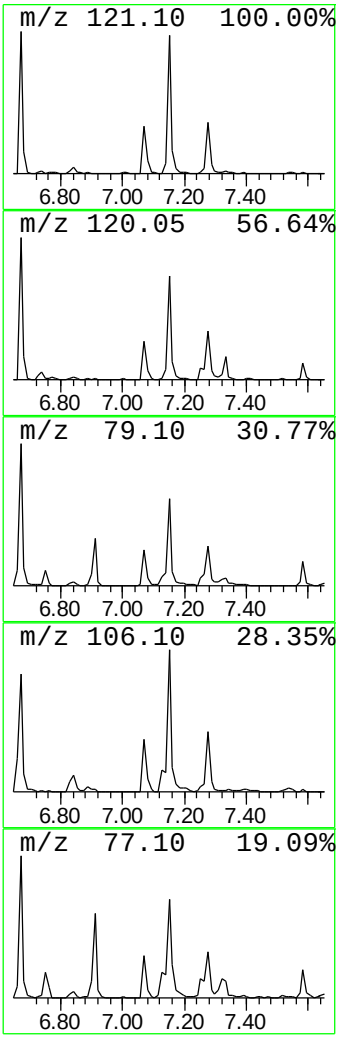
****

Peak Number 5 Pyridine, 2,3,5-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.15	12.75 ng	648888	1,4-Dichlorobenzene-d4	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,3,5-trimethyl-	121	C8H11N	000695-98-7	90
2	Benzenamine, 3,4-dimethyl-	121	C8H11N	000095-64-7	90
3	Pyridine, 2,3,6-trimethyl-	121	C8H11N	001462-84-6	87
4	Benzenamine, 2,4-dimethyl-	121	C8H11N	000095-68-1	87
5	Benzenamine, 3,5-dimethyl-	121	C8H11N	000108-69-0	87





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

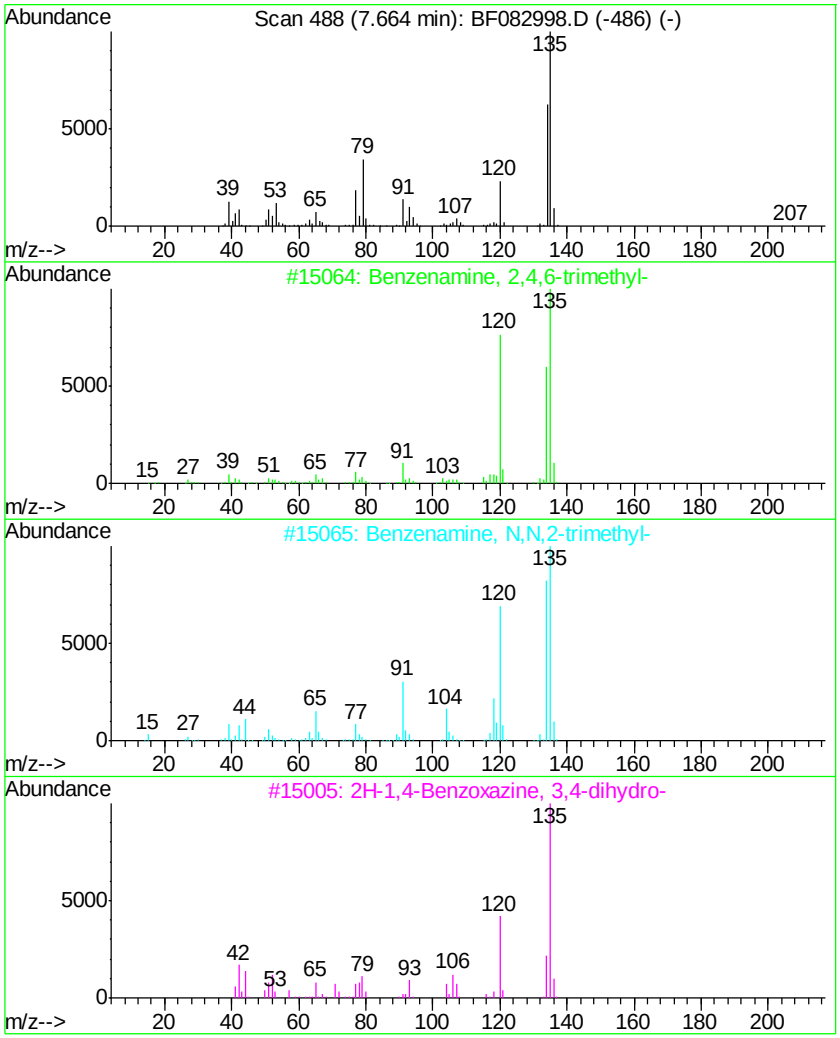
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

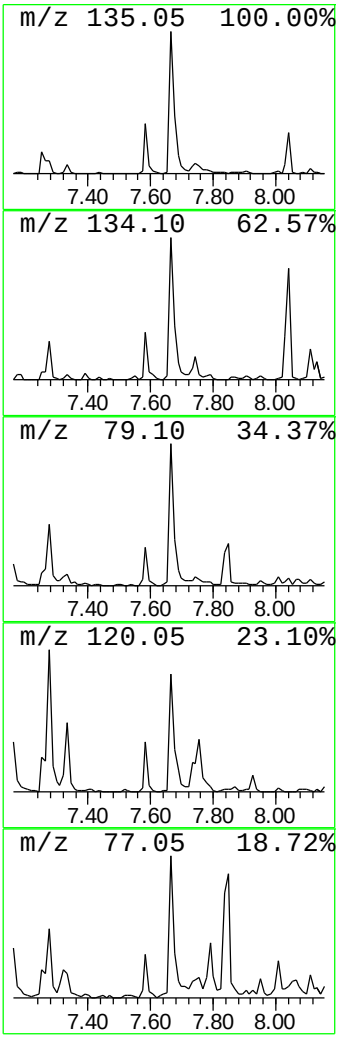
****

Peak Number 6 Benzenamine, 2,4,6-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.66	8.39 ng	577894	Naphthalene-d8	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2,4,6-trimethyl-	135	C9H13N	000088-05-1	58
2	Benzenamine, N,N,2-trimethyl-	135	C9H13N	000609-72-3	53
3	2H-1,4-Benzoxazine, 3,4-dihydro-	135	C8H9NO	005735-53-5	50
4	2(3H)-Benzoxazolone	135	C7H5NO2	000059-49-4	49
5	Benzenemethanol, .alpha.-ethyl-....	242	C17H22O	074685-43-1	43





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Sample : G4423-03
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ClientSampleId : MANAHAWKEN 112

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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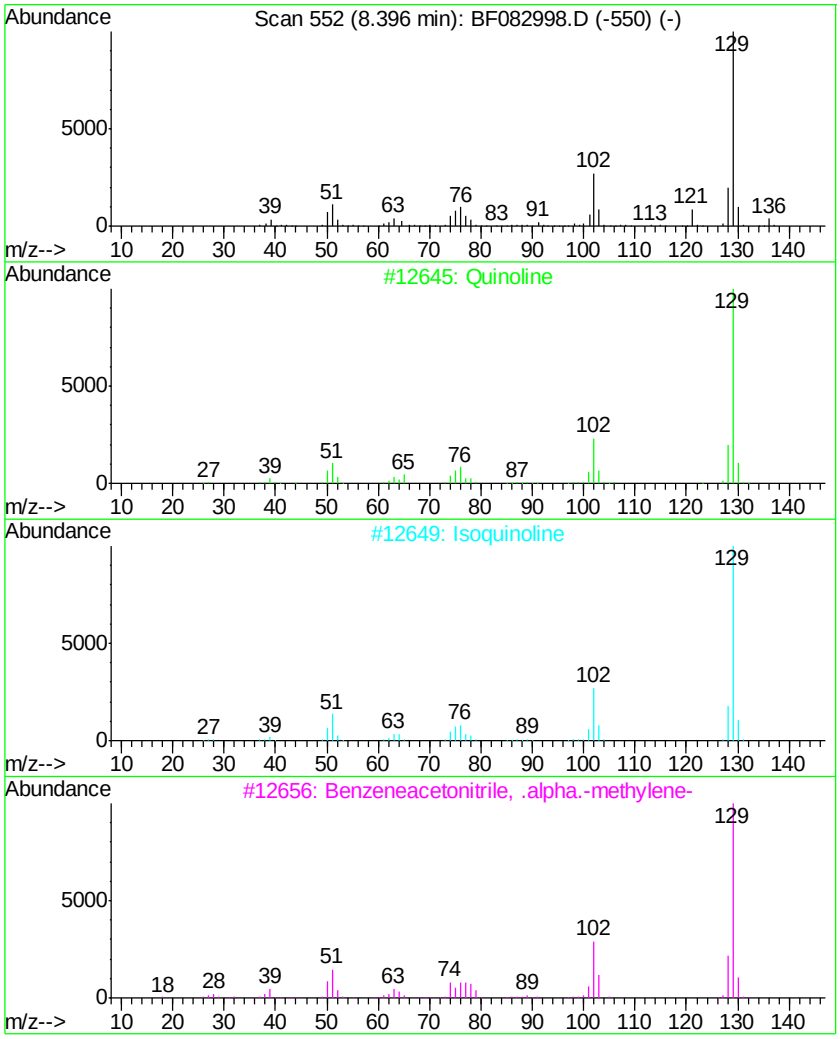
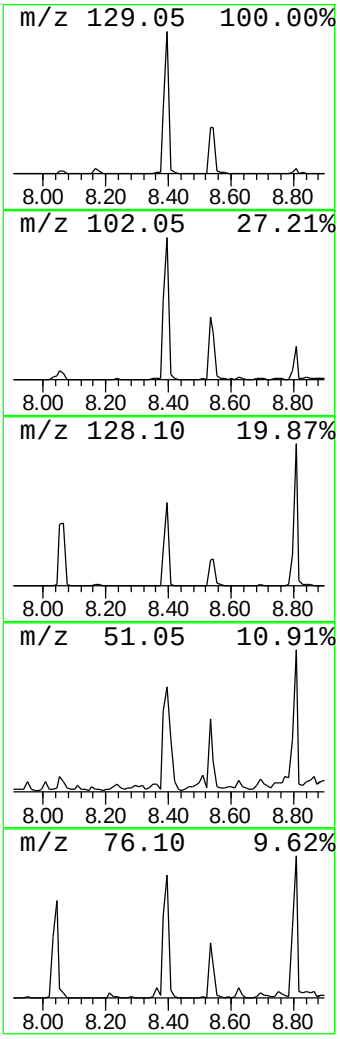
Peak Number 7 Quinoline Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.40	19.89 ng	1370630	Naphthalene-d8	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline	129	C9H7N	000091-22-5	97
2	Isoquinoline	129	C9H7N	000119-65-3	97
3	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	91
4	2-Propenenitrile, 3-phenyl-, (E)-	129	C9H7N	001885-38-7	80
5	Quinoline-8-carboxylic acid	173	C10H7NO2	000086-59-9	78





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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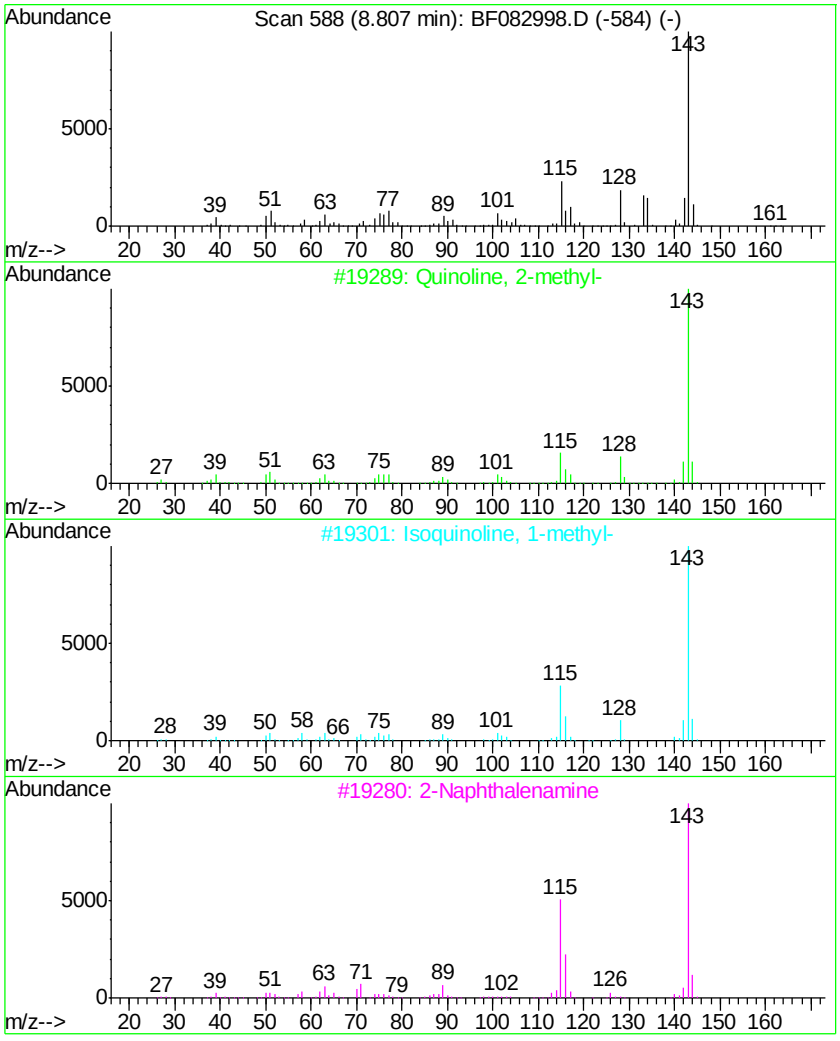
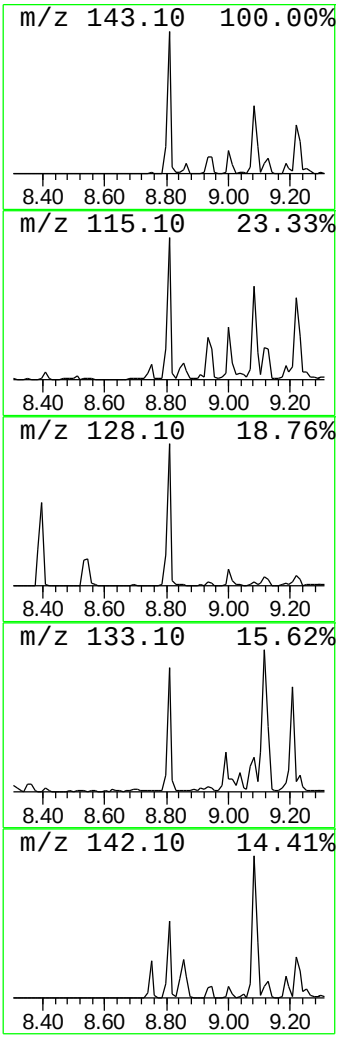
Peak Number 8 Quinoline, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.81	30.42 ng	2096120	Naphthalene-d8	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2-methyl-	143	C10H9N	000091-63-4	93
2	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	81
3	2-Naphthalenamine	143	C10H9N	000091-59-8	76
4	Isoquinoline, 3-methyl-	143	C10H9N	001125-80-0	74
5	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	74





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

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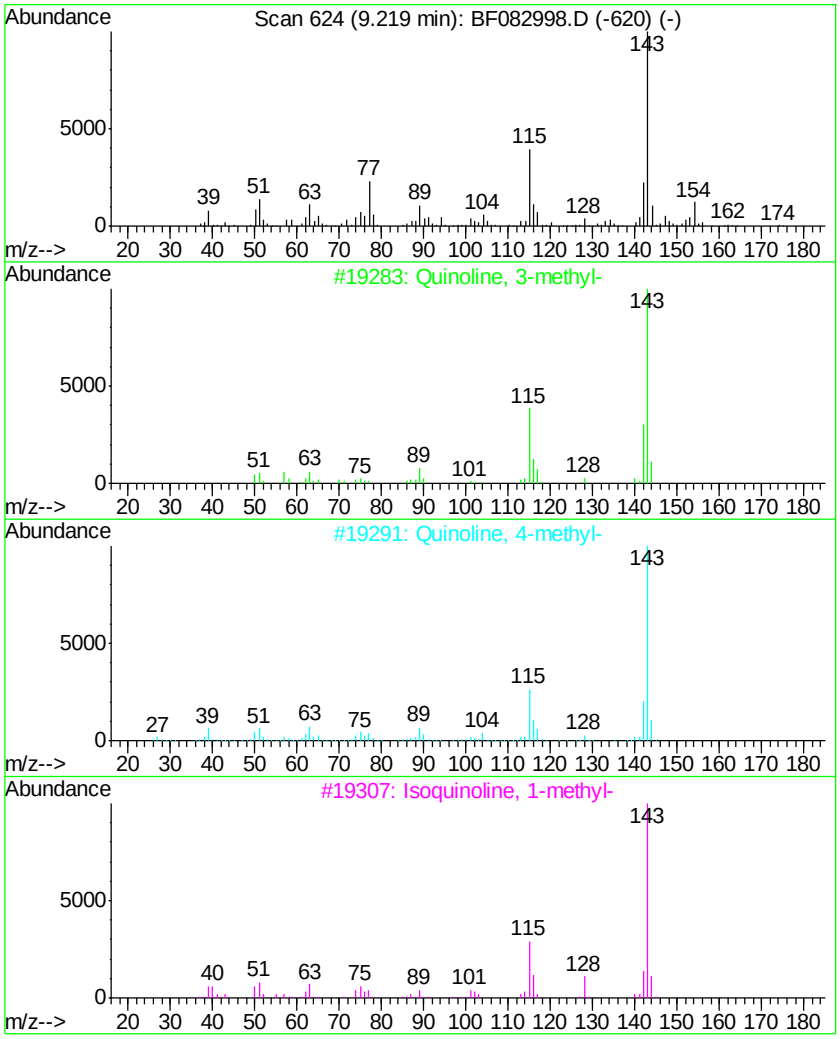
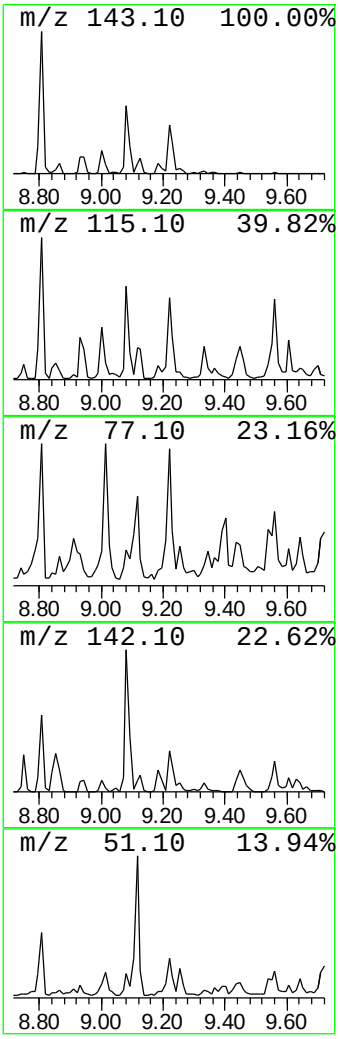
Peak Number 9 Quinoline, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.22	12.79 ng	1499660	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 3-methyl-	143	C10H9N	000612-58-8	94
2	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	93
3	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	76
4	Isoquinoline, 3-methyl-	143	C10H9N	001125-80-0	70
5	1H-Pyrrole, 2-phenyl-	143	C10H9N	003042-22-6	70





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TIC Integration Parameters: LSCINT.P

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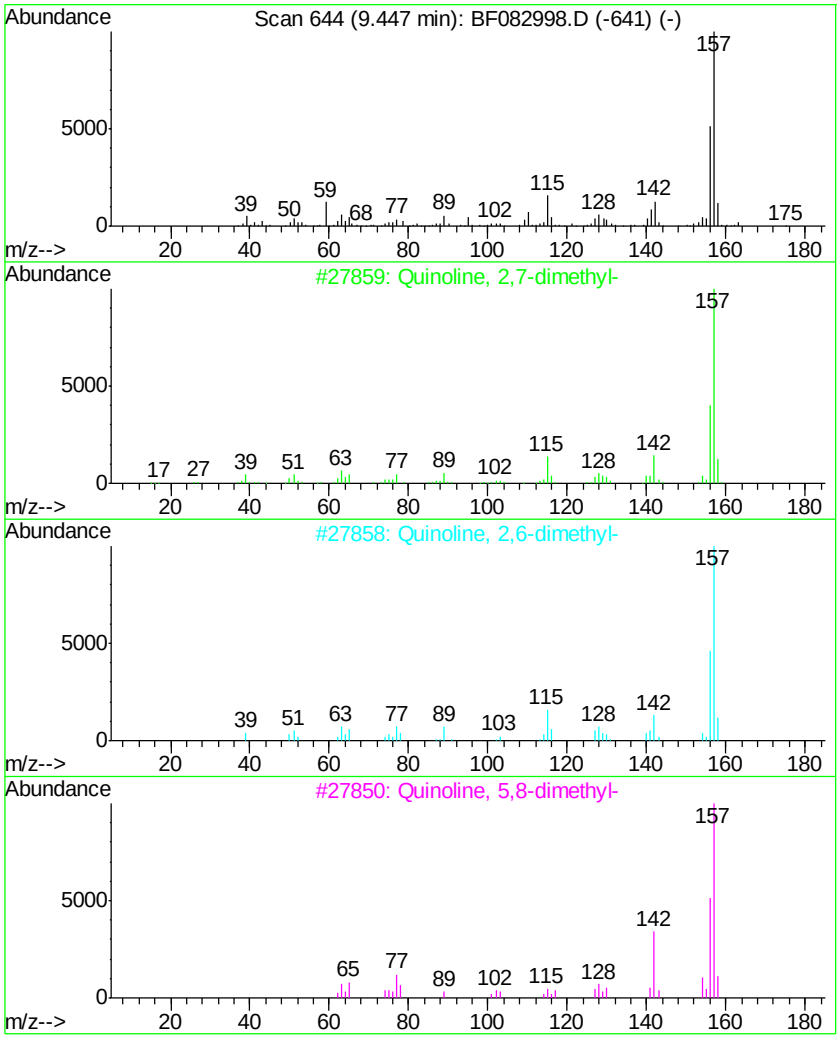
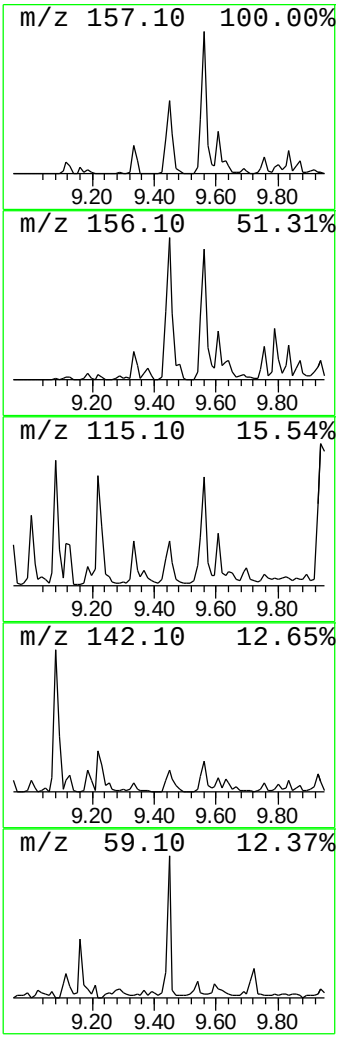
Peak Number 10 Quinoline, 2,7-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	9.78 ng	1146870	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,7-dimethyl-	157	C11H11N	000093-37-8	95
2	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	93
3	Quinoline, 5,8-dimethyl-	157	C11H11N	002623-50-9	80
4	2,8-Dimethylquinoline	157	C11H11N	001463-17-8	76
5	1H-Pyrrole, 1-(4-methylphenyl)-	157	C11H11N	000827-60-1	72





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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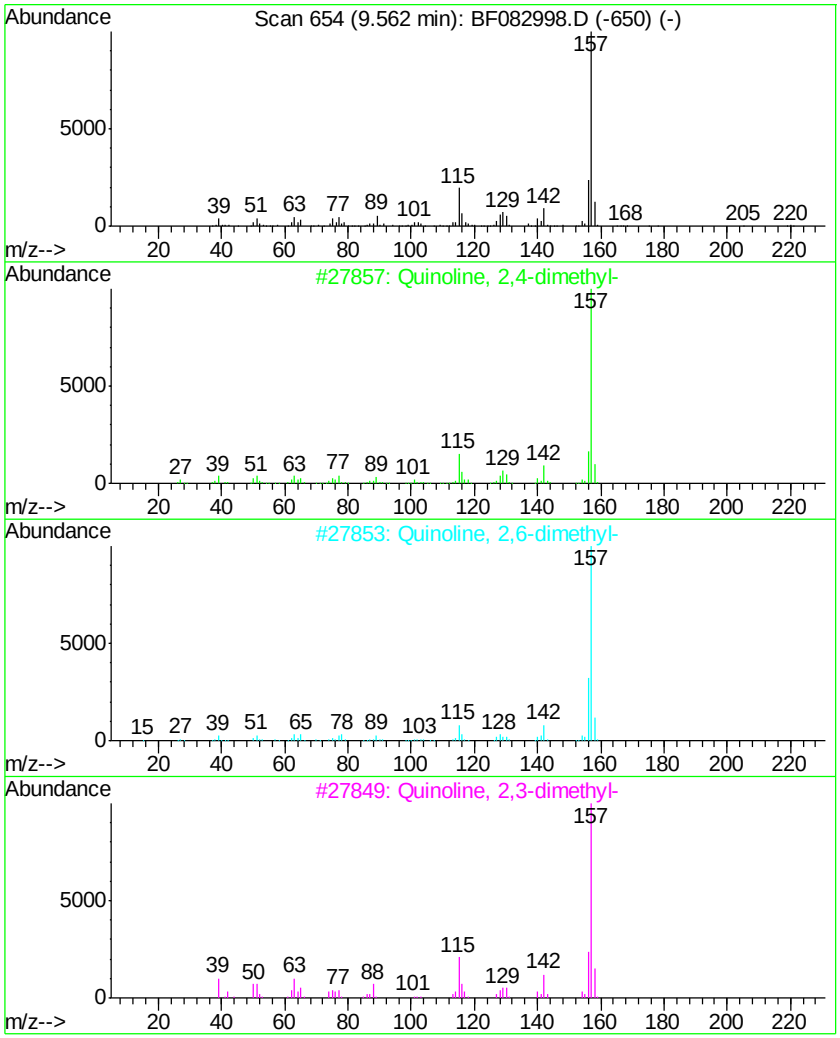
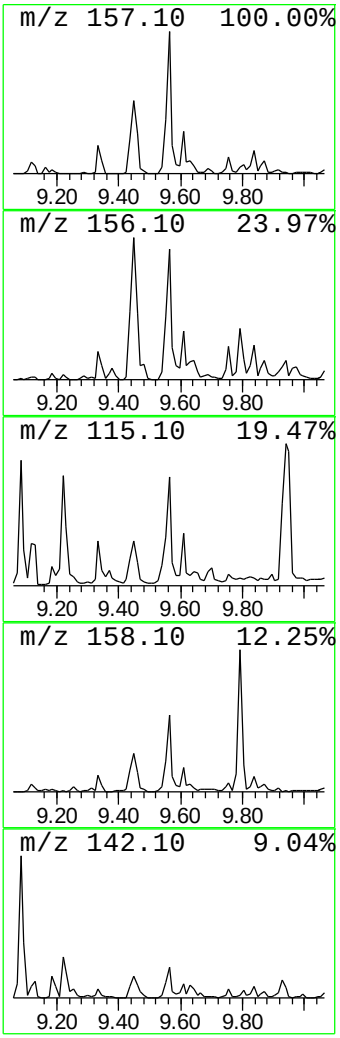
Peak Number 11 Quinoline, 2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.56	14.50 ng	1699080	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	97
2	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	94
3	Quinoline, 2,3-dimethyl-	157	C11H11N	001721-89-7	94
4	Quinoline, 2,7-dimethyl-	157	C11H11N	000093-37-8	87
5	Quinoline, 4,8-dimethyl-	157	C11H11N	013362-80-6	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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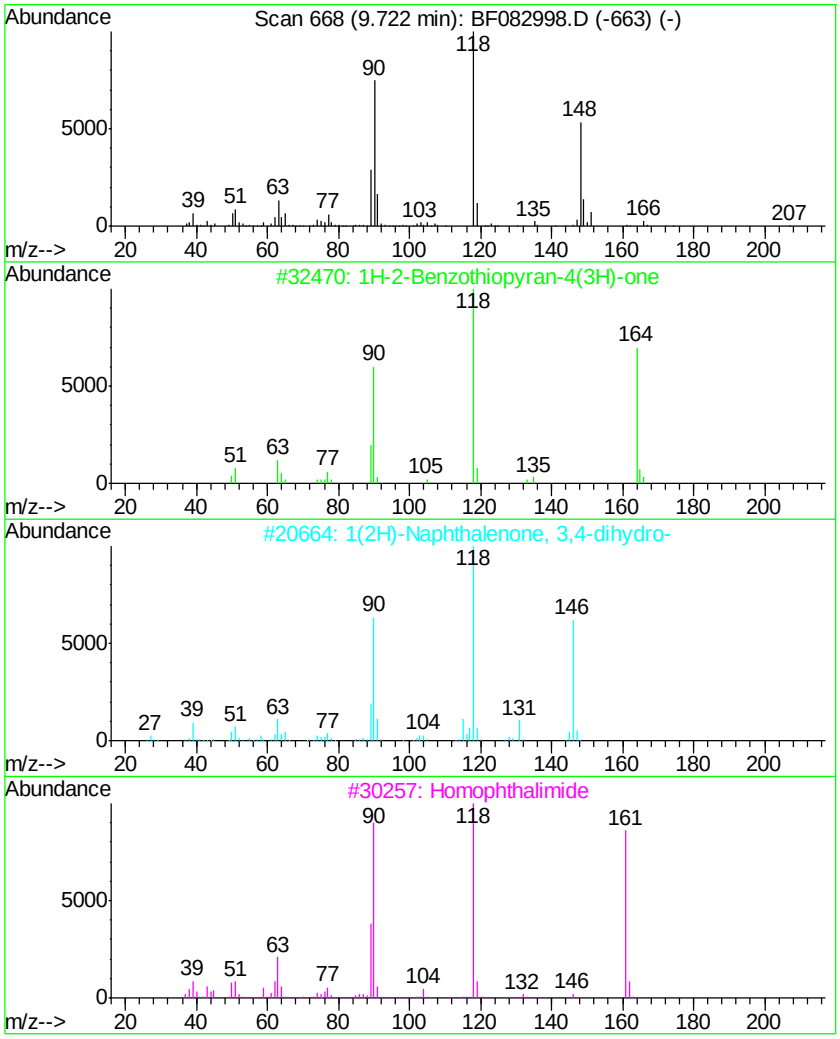
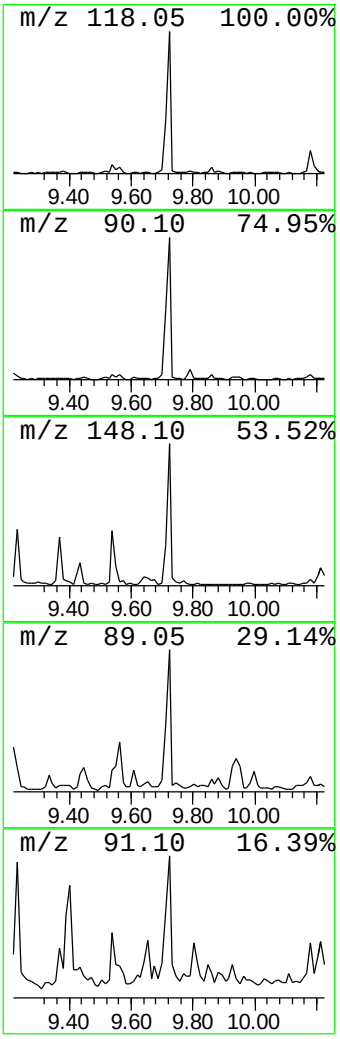
Peak Number 12 1H-2-Benzothiopyran-4(3H)-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	10.20 ng	1195430	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-2-Benzothiopyran-4(3H)-one	164	C9H8OS	004426-76-0	72
2	1(2H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000529-34-0	72
3	Homophthalimide	161	C9H7NO2	004456-77-3	56
4	Benzoic acid, 2-methyl-	136	C8H8O2	000118-90-1	50
5	1(2H)-Naphthalenone, 3,4-dihydro...	160	C11H12O	014944-23-1	40





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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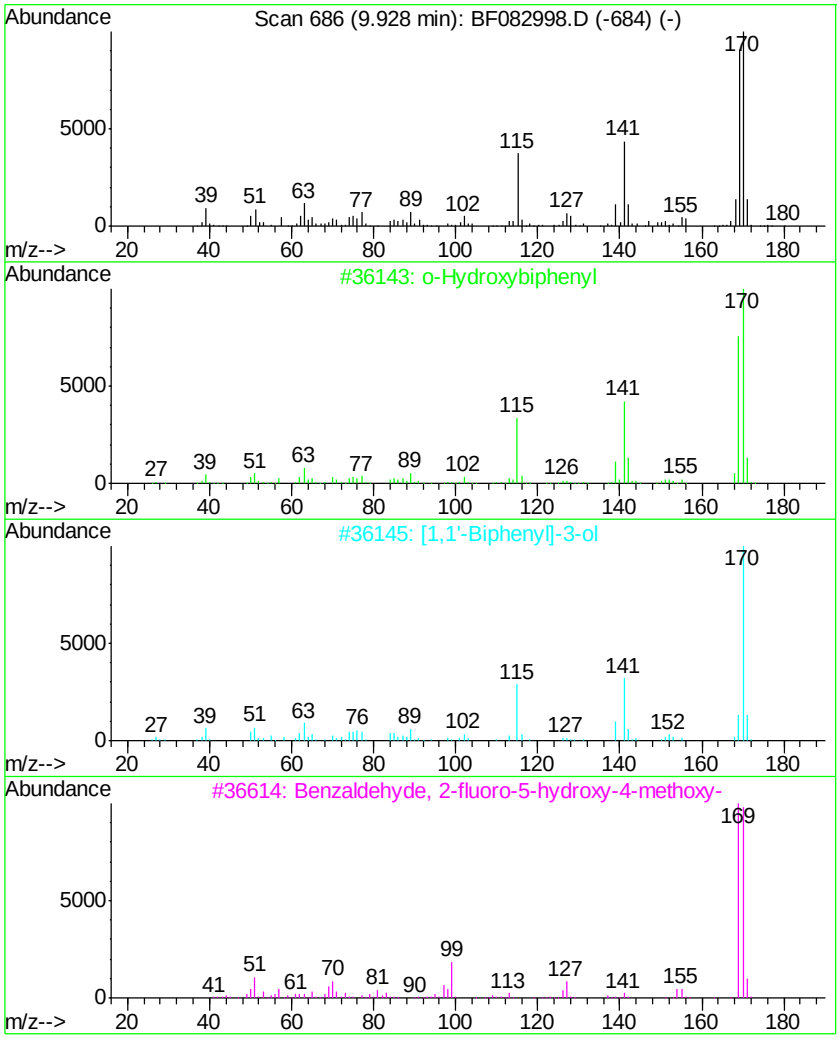
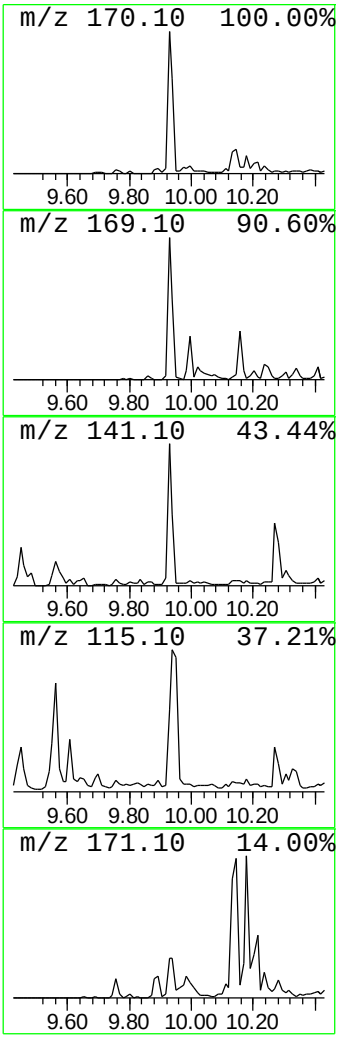
Peak Number 13 o-Hydroxybiphenyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.93	11.64 ng	1364600	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	97
2	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	64
3	Benzaldehyde, 2-fluoro-5-hydroxy...	170	C8H7FO3	079418-76-1	58
4	1-Acenaphthenol	170	C12H10O	006306-07-6	53
5	p-Hydroxybiphenyl	170	C12H10O	000092-69-3	52





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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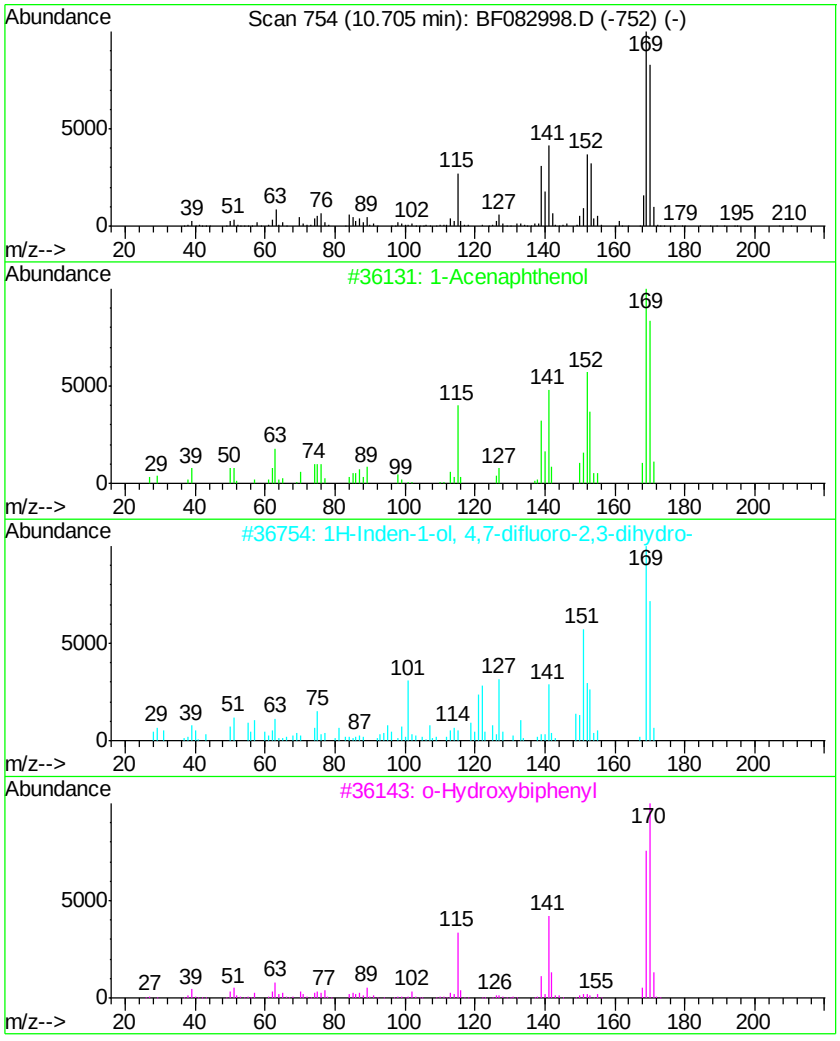
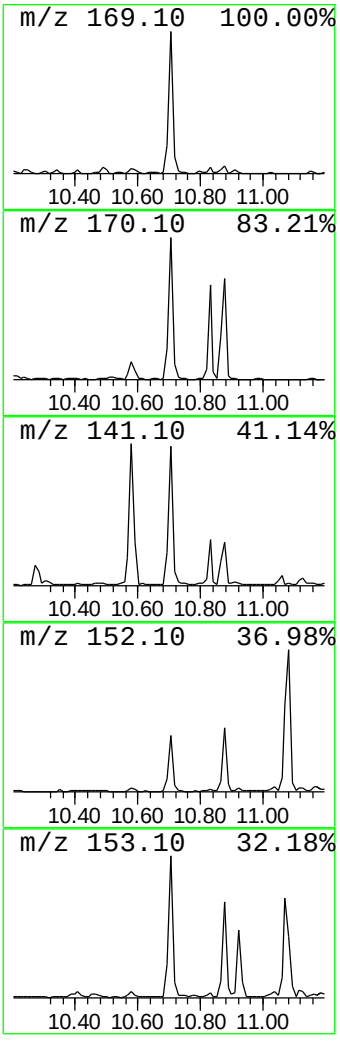
Peak Number 14 1-Acenaphthenol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.70	16.30 ng	2308840	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Acenaphthenol	170	C12H10O	006306-07-6	78
2	1H-Inden-1-ol, 4,7-difluoro-2,3-...	170	C9H8F2O	130408-17-2	74
3	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	47
4	Benzaldehyde, 2-fluoro-3-hydroxy...	170	C8H7FO3	079418-73-8	46
5	Benzaldehyde, 2-fluoro-5-hydroxy...	170	C8H7FO3	079418-76-1	46





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TIC Library : C:\DATABASE\NIST02.L
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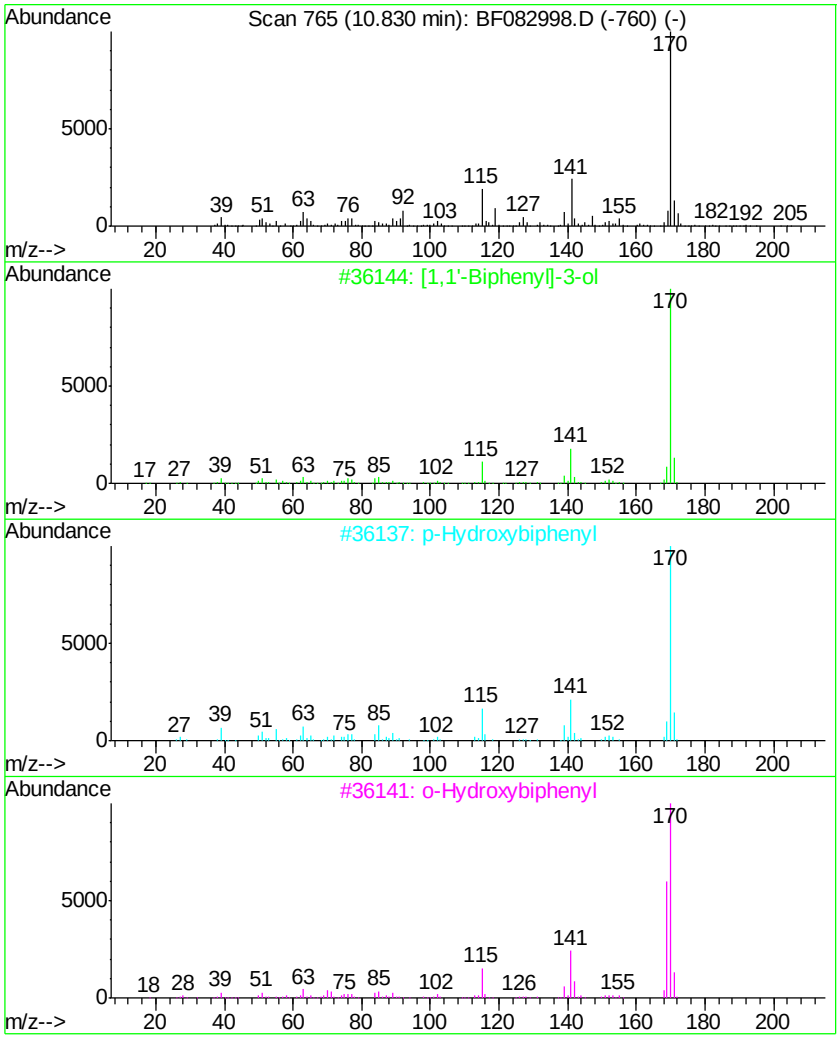
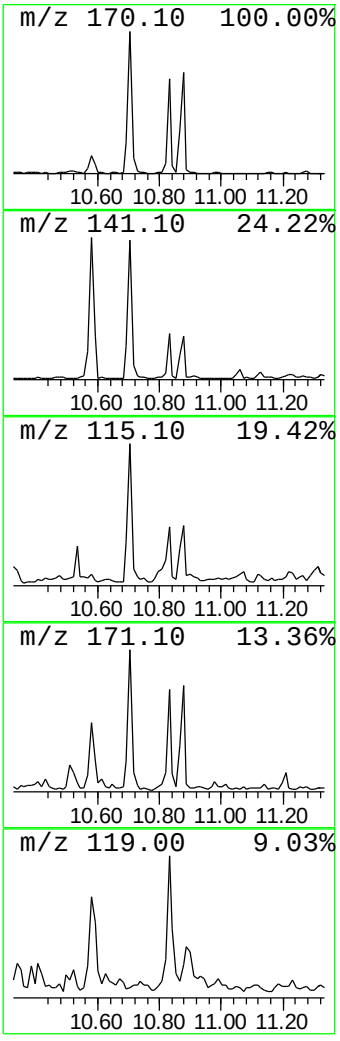
Peak Number 15 [1,1'-Biphenyl]-3-ol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.83	12.55 ng	1778180	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	93
2	p-Hydroxybiphenyl	170	C12H10O	000092-69-3	91
3	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	72
4	4-Benzylpyridazine	170	C11H10N2	053074-22-9	59
5	Carbamic acid, N-[1,1-bis(triflu...	391	C18H15F6NO2	296242-71-2	50





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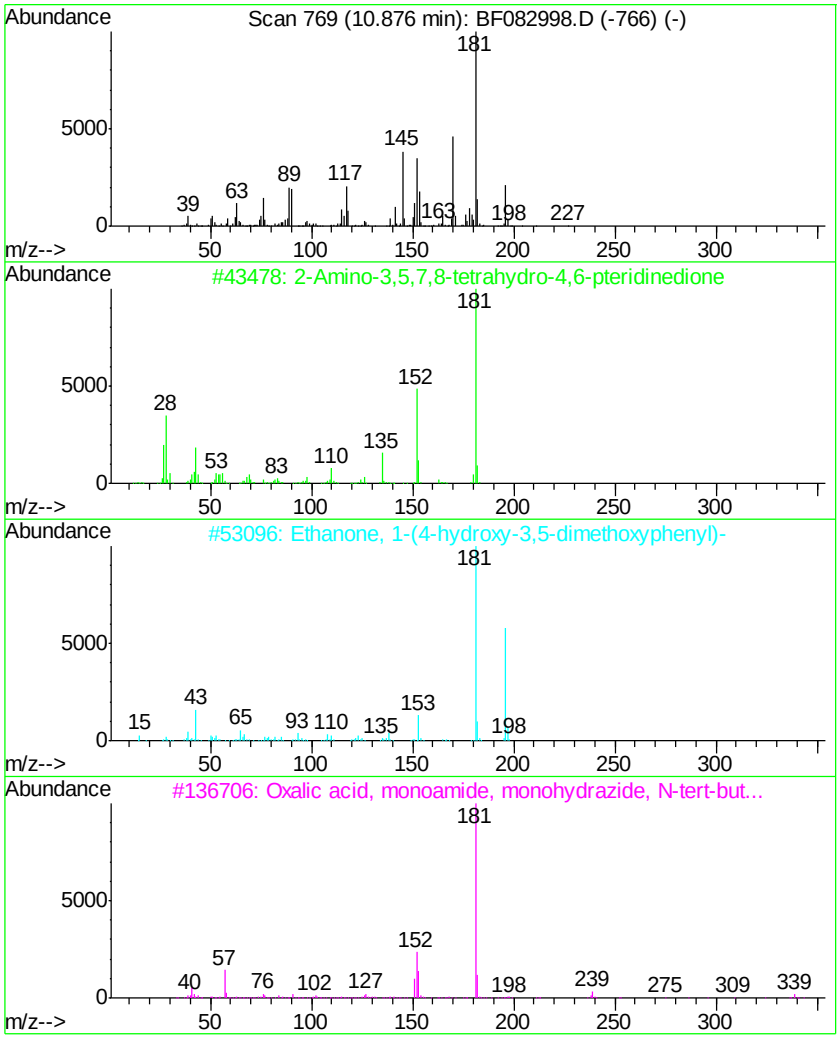
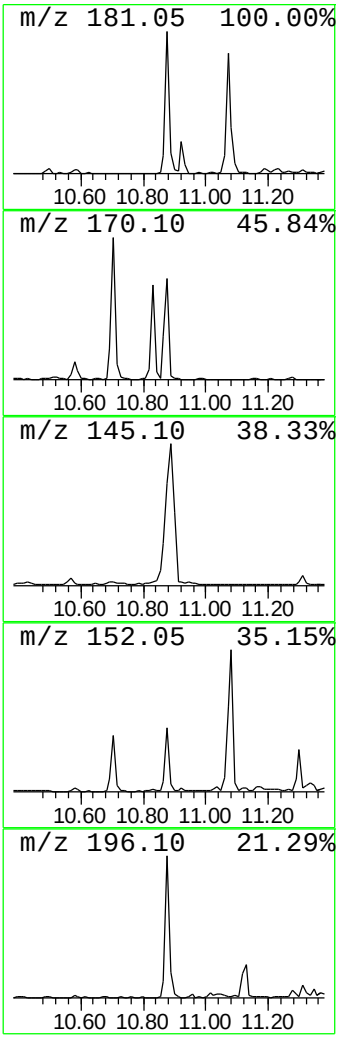
Peak Number 16 unknown10.88 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	29.72 ng	4209230	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Amino-3,5,7,8-tetrahydro-4,6-p...	181	C6H7N5O2	001011-23-0	38
2	Ethanone, 1-(4-hydroxy-3,5-dimet...	196	C10H12O4	002478-38-8	35
3	Oxalic acid, monoamide, monohydr...	339	C19H21N3O3	296243-03-3	35
4	2-Azafluorenone	181	C12H7NO	005061-91-6	30
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	30





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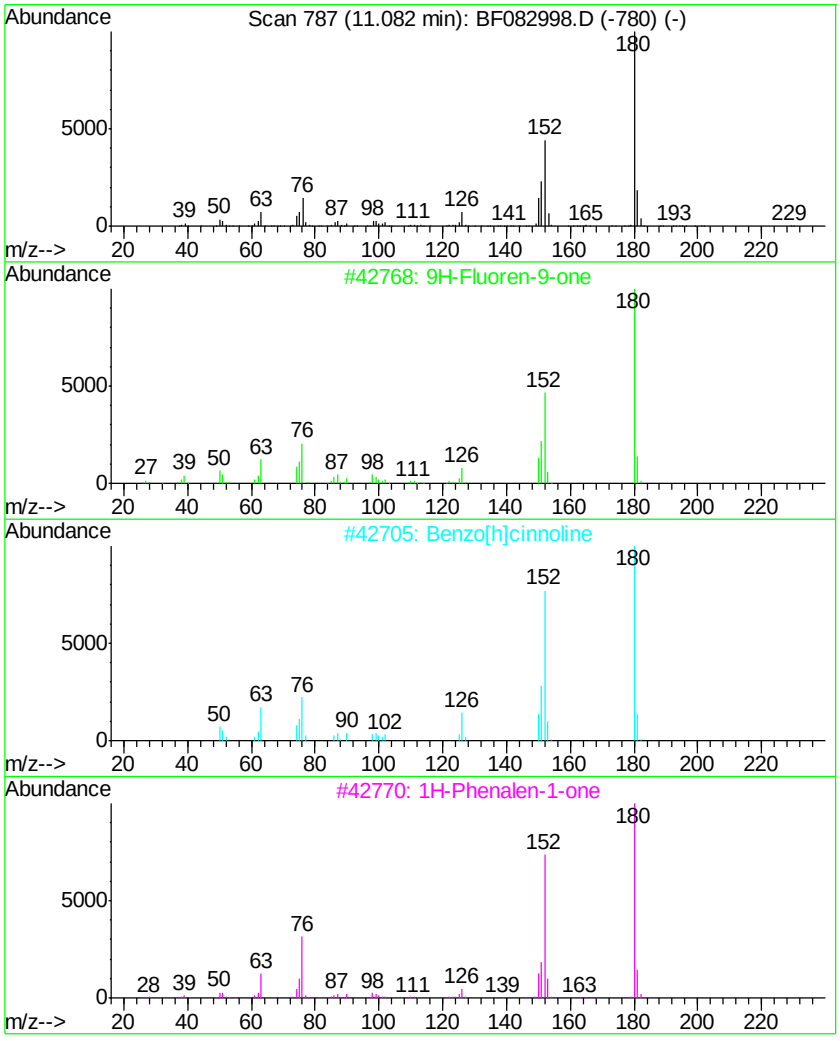
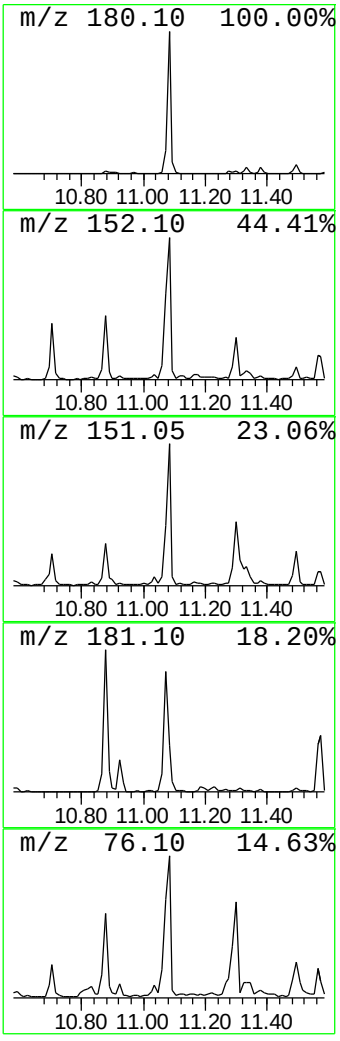
Peak Number 17 9H-Fluoren-9-one Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	31.34 ng	4438930	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	70
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	33





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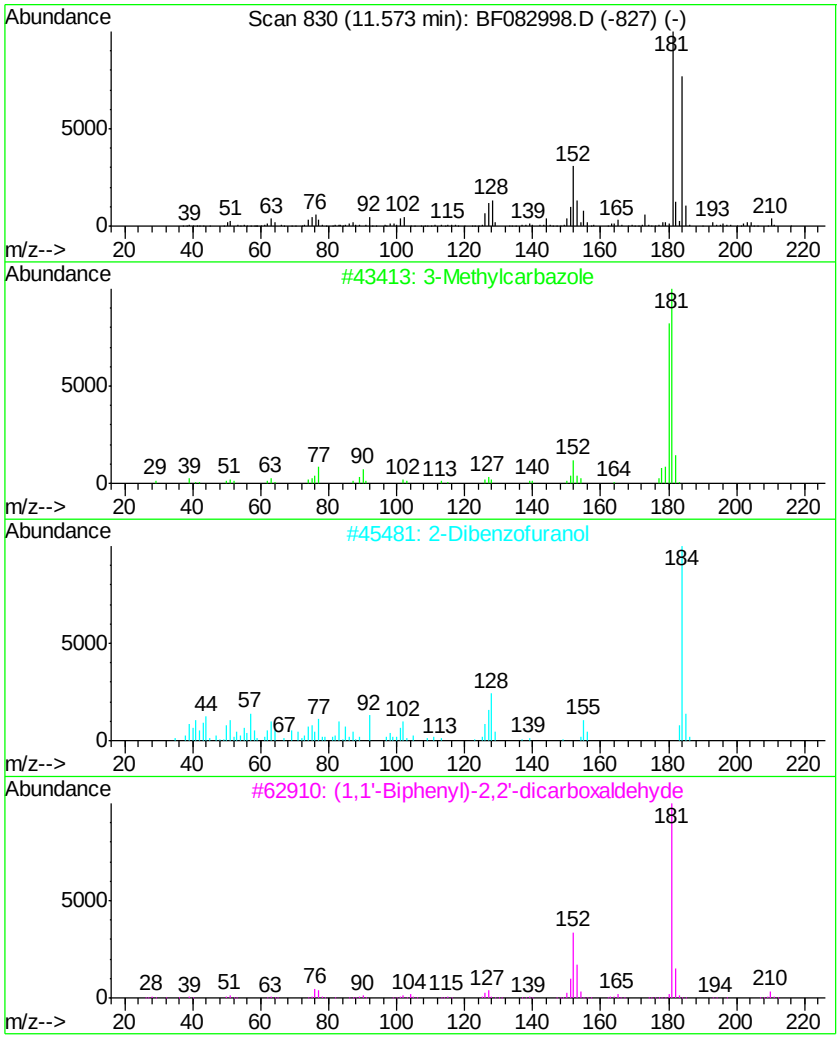
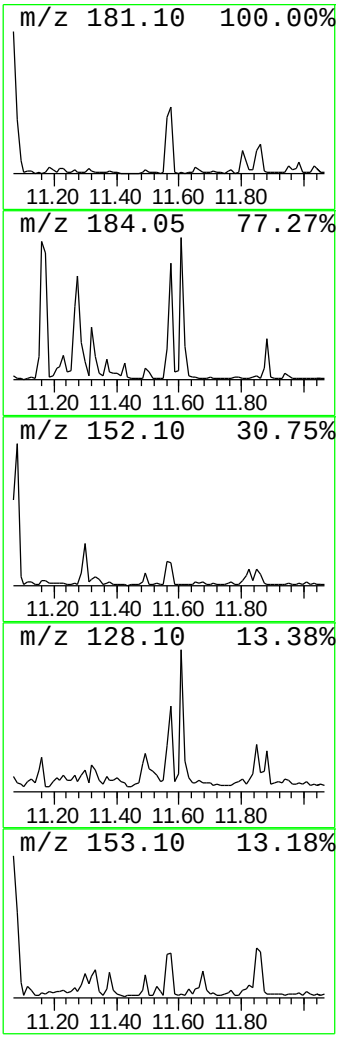
Peak Number 18 3-Methylcarbazole Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	9.89 ng	1400200	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	49
2	2-Dibenzofuranol	184	C12H8O2	000086-77-1	46
3	(1,1'-Biphenyl)-2,2'-dicarboxald...	210	C14H10O2	001210-05-5	45
4	4-Methylcarbazole	181	C13H11N	003770-48-7	43
5	2-Fluorenamine	181	C13H11N	000153-78-6	43





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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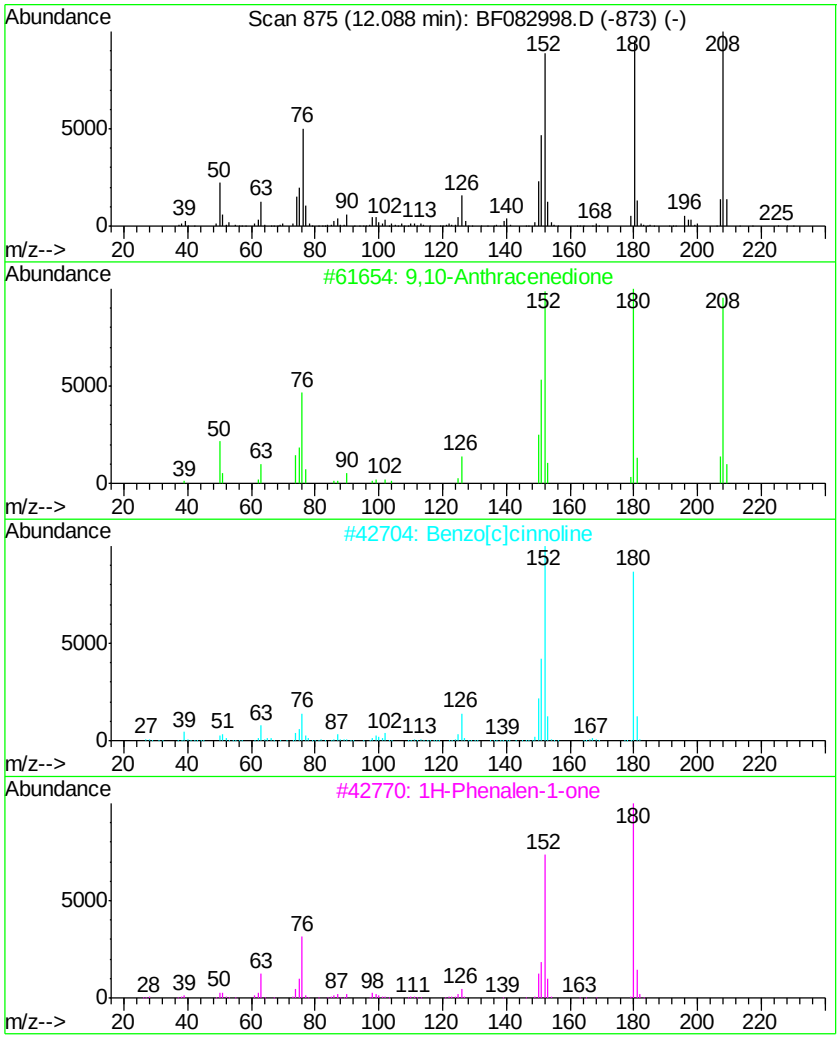
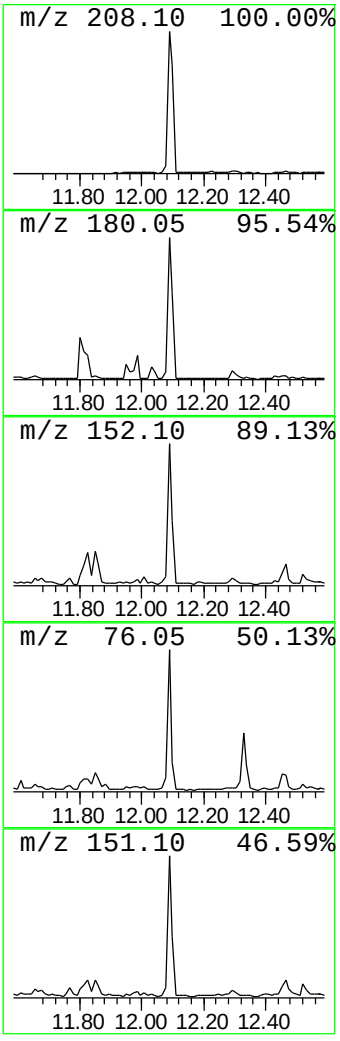
Peak Number 19 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	10.78 ng	1527300	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	95
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	49





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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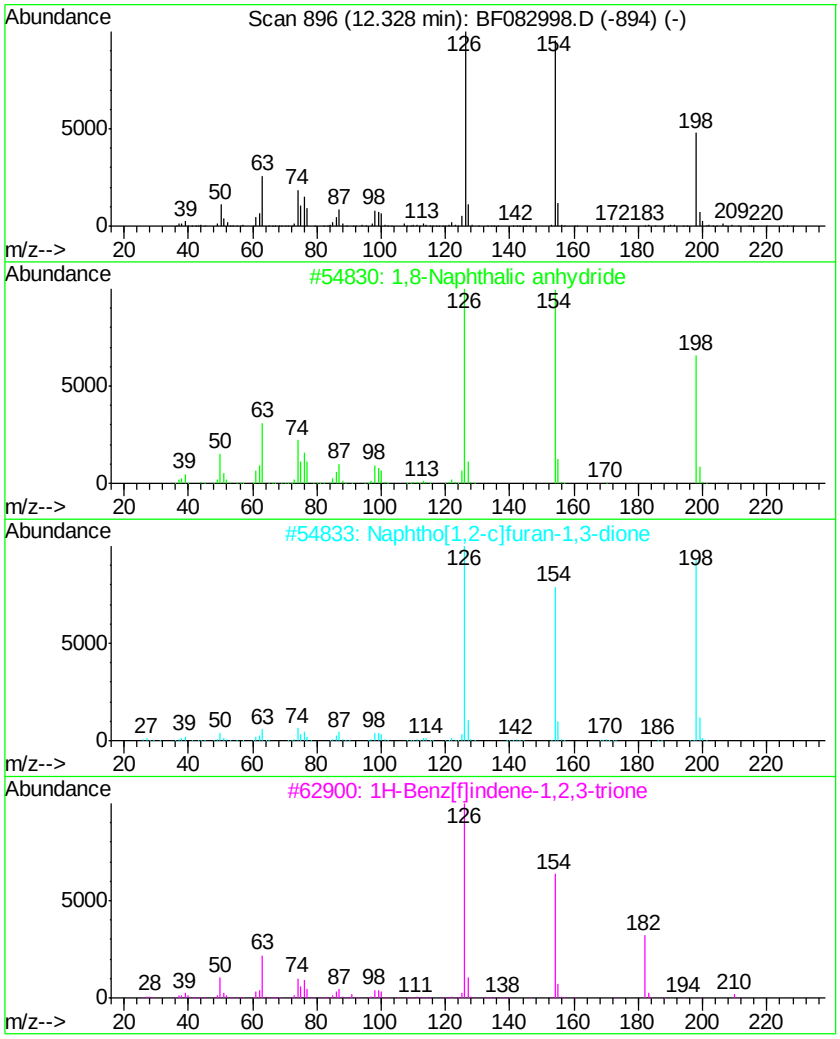
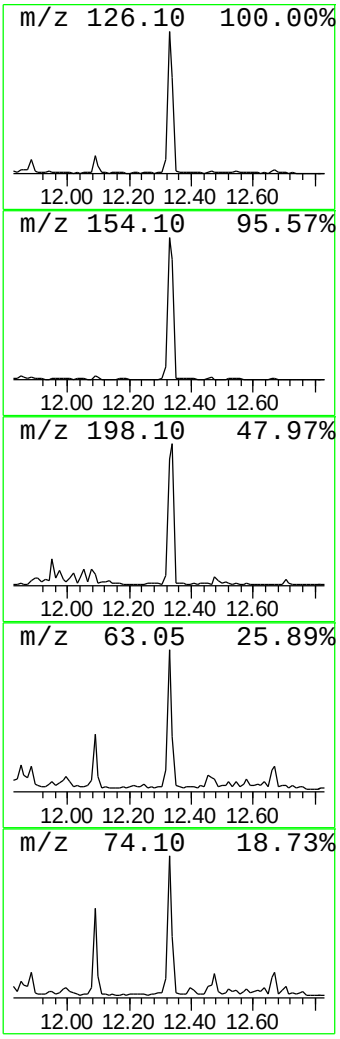
Peak Number 20 1,8-Naphthalic anhydride Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	10.19 ng	1443080	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	99
2	Naphtho[1,2-c]furan-1,3-dione	198	C12H6O3	005343-99-7	80
3	1H-Benz[f]indene-1,2,3-trione	210	C13H6O3	020927-01-9	72
4	Benzene,1,4-diethynyl-	126	C10H6	000935-14-8	42
5	Propanedinitrile, (phenylmethyle...	154	C10H6N2	002700-22-3	30





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MANAHAWKEN 112

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
2-Pentanone, 4-hy...	4.93	56.7	ng	2885930	1	6.75	1017490	20.0
unknown6.53	6.53	98.9	ng	5032620	1	6.75	1017490	20.0
Pyridine, 2,3,6-t...	6.67	10.0	ng	509315	1	6.75	1017490	20.0
Pyridine, 2,3,5-t...	7.15	12.8	ng	648888	1	6.75	1017490	20.0
Benzenamine, 2,4,...	7.66	8.4	ng	577894	2	8.04	1378280	20.0
Quinoline	8.40	19.9	ng	1370630	2	8.04	1378280	20.0
Quinoline, 2-methyl-	8.81	30.4	ng	2096120	2	8.04	1378280	20.0
Quinoline, 3-methyl-	9.22	12.8	ng	1499660	3	9.79	2344260	20.0
Quinoline, 2,7-di...	9.45	9.8	ng	1146870	3	9.79	2344260	20.0
Quinoline, 2,4-di...	9.56	14.5	ng	1699080	3	9.79	2344260	20.0
1H-2-Benzothiopyr...	9.72	10.2	ng	1195430	3	9.79	2344260	20.0
o-Hydroxybiphenyl	9.93	11.6	ng	1364600	3	9.79	2344260	20.0
1-Acenaphthenol	10.70	16.3	ng	2308840	4	11.28	2832670	20.0
[1,1'-Biphenyl]-3-ol	10.83	12.6	ng	1778180	4	11.28	2832670	20.0
unknown10.88	10.88	29.7	ng	4209230	4	11.28	2832670	20.0
9H-Fluoren-9-one	11.08	31.3	ng	4438930	4	11.28	2832670	20.0
3-Methylcarbazole	11.57	9.9	ng	1400200	4	11.28	2832670	20.0
9,10-Anthracenedione	12.09	10.8	ng	1527300	4	11.28	2832670	20.0
1,8-Naphthalic an...	12.33	10.2	ng	1443080	4	11.28	2832670	20.0