LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

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_N\METHODS\SOM-EPA-BN041918-PAH.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	3.017	3	5	12	rVB	48416	47890	1.05%	0.055%
2	4.805	304	309	318	rVB	56564	74295	1.62%	0.086%
3	5.005	338	343	349	rBV	65574	92850	2.03%	0.107%
4	6.805	639	649	657	rBV	490454	814291	17.79%	0.943%
5	6.969	671	677	685	rBV	430651	630614	13.78%	0.730%
6	7.163	703	710	712	rBV	505229	807220	17.64%	0.935%
7	7.193	712	715	724	rVB	632341	899249	19.65%	1.041%
8	7.622	781	788	795	rVB	484408	731500	15.98%	0.847%
9	8.157	870	879	884	rBV	493448	1175422	25.68%	1.361%
10	8.205	884	887	893	rVB2	55318	76606	1.67%	0.089%
11	8.322	901	907	915	rBV	623950	936380	20.46%	1.084%
12	8.434	919	926	943	rBV	802576	1214427	26.53%	1.406%
13	8.687	963	969	975	rVB	261168	405936	8.87%	0.470%
14	8.763	975	982	986	rBV	426311	734346	16.04%	0.850%
15	8.810	986	990	1001	rVB	823258	1261412	27.56%	1.460%
16	9.081	1029	1036	1044	rVB	1052215	1569388	34.29%	1.817%
17	9.481	1097	1104	1106	rBV	359427	578032	12.63%	0.669%
18	9.510	1106	1109	1115	rVV	550158	830960	18.16%	0.962%
19	9.587	1115	1122	1133	rVB3	23212	51279	1.12%	0.059%
20	10.010	1187	1194	1197	rBV	593864	1087869	23.77%	1.259%
21	10.281	1235	1240	1248	rVB	31853	48022	1.05%	0.056%
22	10.387	1251	1258	1263	rVV	646527	1067321	23.32%	1.236%
23	10.440	1263	1267	1274	rVB	425577	665699	14.55%	0.771%
24	10.522	1274	1281	1291	rBV	79743	137281	3.00%	0.159%
25	11.675	1470	1477	1498	rVB	933393	1452879	31.74%	1.682%
26	11.928	1513	1520	1534	rVB	937023	1534314	33.52%	1.776%
27	12.275	1572	1579	1590	rVB	1378988	2160579	47.21%	2.501%
28	12.428	1598	1605	1611	rVB	447461	667802	14.59%	0.773%
29	12.669	1640	1646	1652	rBV	655937	938405	20.50%	1.086%
30	13.081	1710	1716	1729	rVB	1463960	2065568	45.13%	2.391%
31	13.328	1751	1758	1768	rVB	721482	1013874	22.15%	1.174%
32	13.669	1810	1816	1823	rBV	944851	1279774	27.96%	1.482%
33	13.745	1823	1829	1837	rVV	493710	694776	15.18%	0.804%
34	13.834	1837	1844	1849	rVB	747859	1033544	22.58%	1.197%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
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Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

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_N\METHODS\SOM-EPA-BN041918-PAH.M
Title : SVOA CALIBRATION

35	13.945	1856	1863	1865	rBV	1124735	1793464	39.19%	2.076%
36	13.975	1865	1868	1878	rVB	1670202	2261505	49.41%	2.618%
37	14.251	1909	1915	1921	rBV2	811154	1207237	26.38%	1.398%
38	14.316	1921	1926	1933	rVB	174460	239498	5.23%	0.277%
39	14.475	1944	1953	1968	rBV3	1139455	2124501	46.42%	2.460%
40	14.622	1972	1978	1981	rVV	994745	1425694	31.15%	1.651%
41	14.651	1981	1983	1990	rVB	682159	864560	18.89%	1.001%
42	14.898	2018	2025	2034	rVB	211029	304459	6.65%	0.352%
43	15.092	2052	2058	2067	rBV	1542442	2042904	44.64%	2.365%
44	15.251	2078	2085	2090	rBV	1342743	1895988	41.43%	2.195%
45	15.304	2090	2094	2100	rVB	341345	450639	9.85%	0.522%
46	15.369	2100	2105	2110	rBV	504247	636944	13.92%	0.737%
47	15.486	2120	2125	2126	rBV	103756	124861	2.73%	0.145%
48	15.522	2126	2131	2137	rVB	2020275	2695062	58.89%	3.120%
49	15.757	2166	2171	2186	rBV	138300	193115	4.22%	0.224%
50	16.310	2256	2265	2271	rVB2	1070616	1995094	43.59%	2.310%
51	16.651	2317	2323	2334	rBV	987474	1308932	28.60%	1.515%
52	16.998	2376	2382	2386	rBV	945526	1356907	29.65%	1.571%
53	17.039	2386	2389	2394	rVV	1514675	2088283	45.63%	2.418%
54	17.098	2394	2399	2408	rVB2	1554043	2115073	46.21%	2.449%
55	17.986	2544	2550	2556	rBV	1894518	2151258	47.00%	2.491%
56	19.286	2766	2771	2774	rBV2	63251	80015	1.75%	0.093%
57	19.404	2785	2791	2794	rBV2	1874379	2677428	58.50%	3.100%
58	19.433	2794	2796	2804	rVB	967897	1040095	22.73%	1.204%
59	19.657	2829	2834	2844	rBV	244897	290683	6.35%	0.337%
60	20.451	2965	2969	2974	rBV	104419	112671	2.46%	0.130%
61	21.198	3090	3096	3109	rBV2	2681422	4576809	100.00%	5.299%
62	21.486	3141	3145	3151	rBV2	121231	155335	3.39%	0.180%
63	21.651	3168	3173	3185	rBV	2738992	3023192	66.05%	3.500%
64	21.774	3190	3194	3201	rBV	222820	274604	6.00%	0.318%
65	22.027	3233	3237	3247	rBV	1571353	1889201	41.28%	2.187%
66	22.757	3354	3361	3372	rBV	1666230	2688886	58.75%	3.113%
67	23.274	3441	3449	3452	rBV	1432643	2621381	57.28%	3.035%
68	23.315	3452	3456	3465	rVV	907768	1648379	36.02%	1.908%
69	23.410	3465	3472	3483	rVB	817884	1431673	31.28%	1.658%
70	25.604	3835	3845	3860	rVB	1454838	3866293	84.48%	4.476%
71	26.245	3944	3954	3967	rVB	687226	1941438	42.42%	2.248%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

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_N\METHODS\SOM-EPA-BN041918-PAH.M
Title : SVOA CALIBRATION

Sum of corrected areas: 86373865

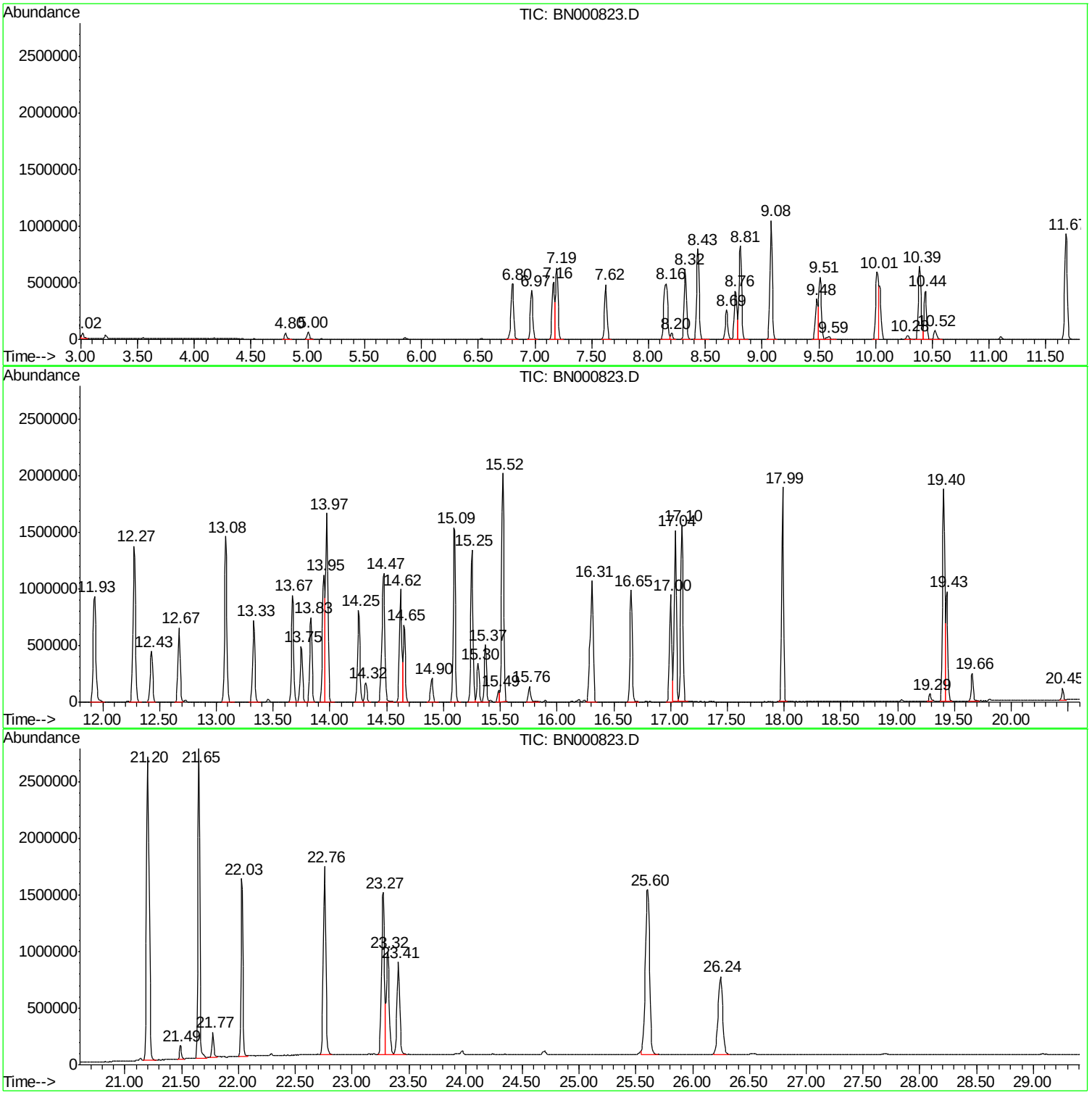
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.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 N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

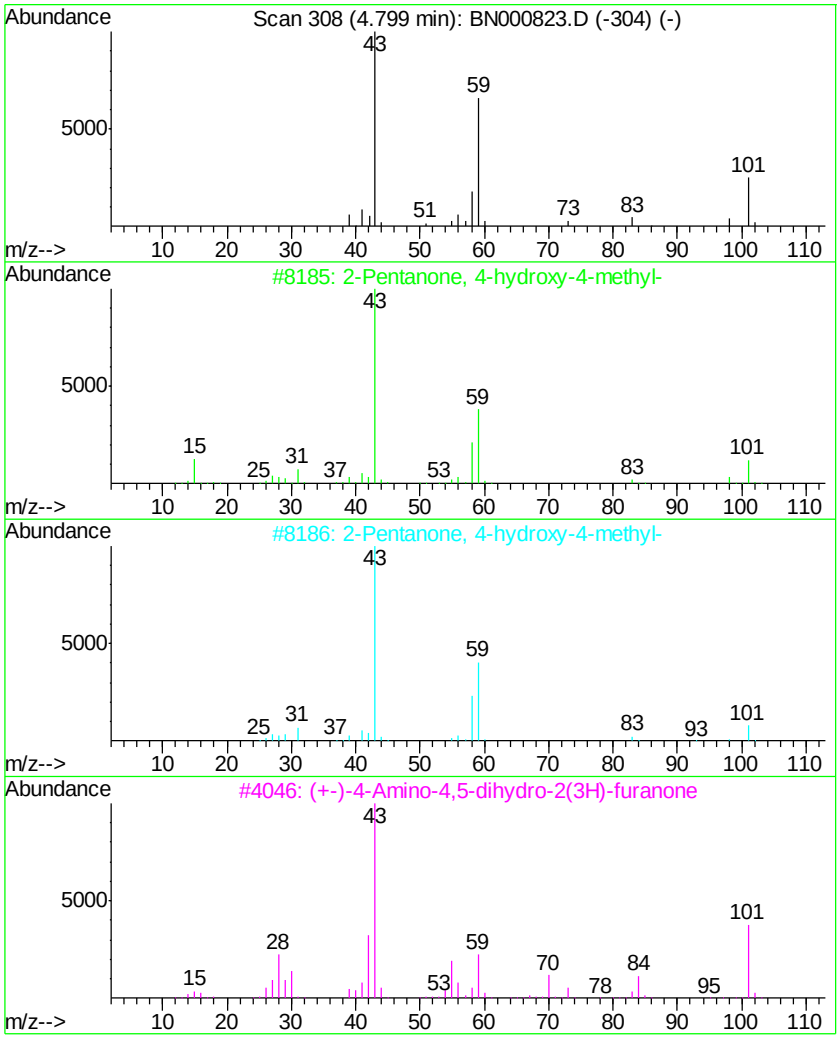
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

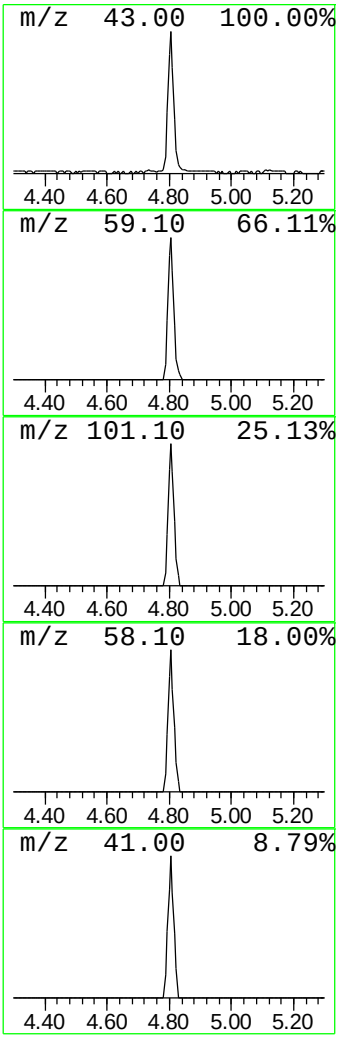
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.80	2.03 ng/ul	74295	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	47
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

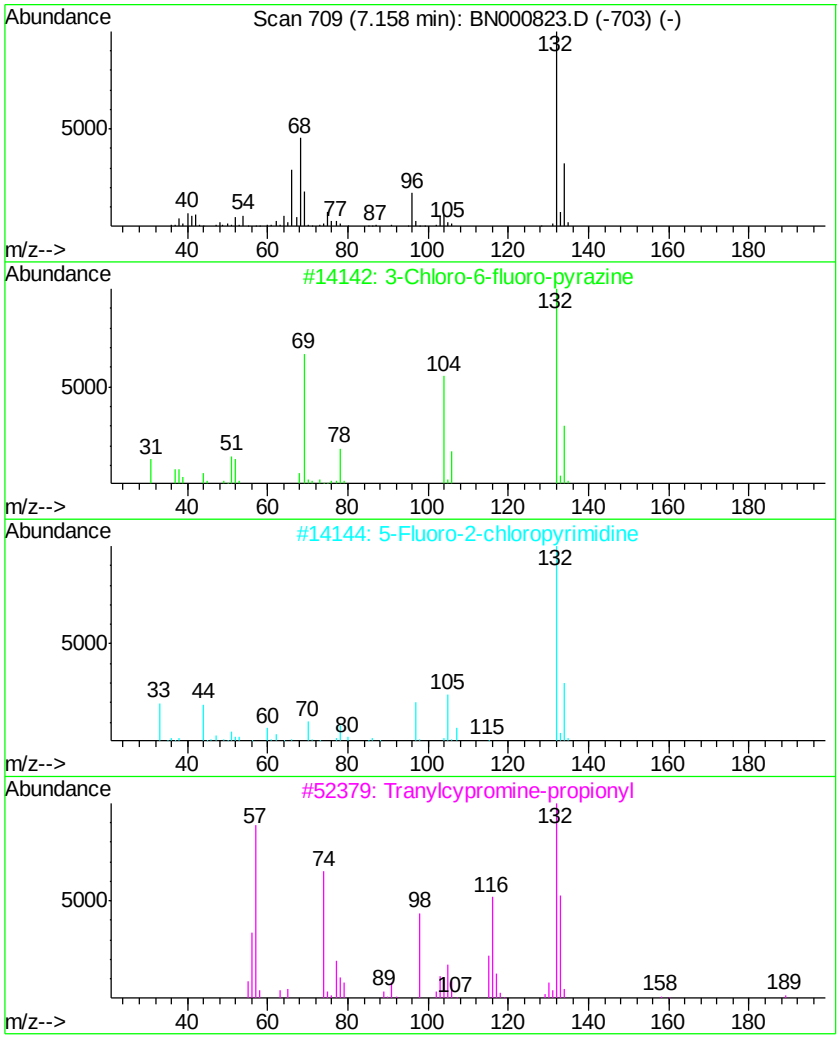
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

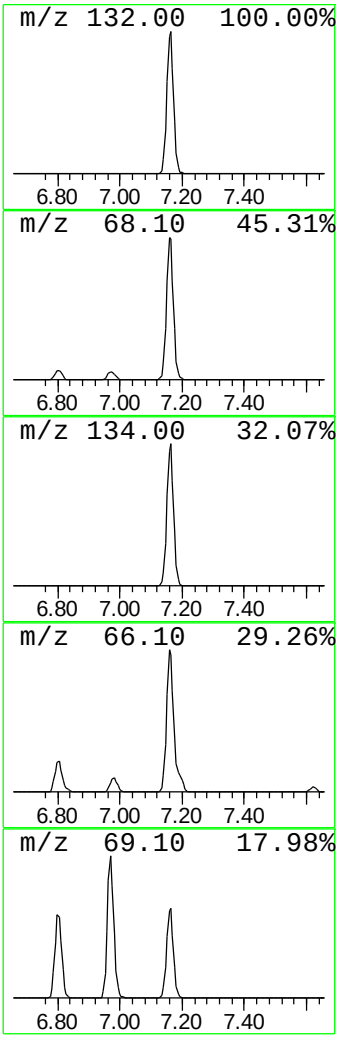
****

Peak Number 5 unknown-01 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.16	22.07 ng/ul	807220	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

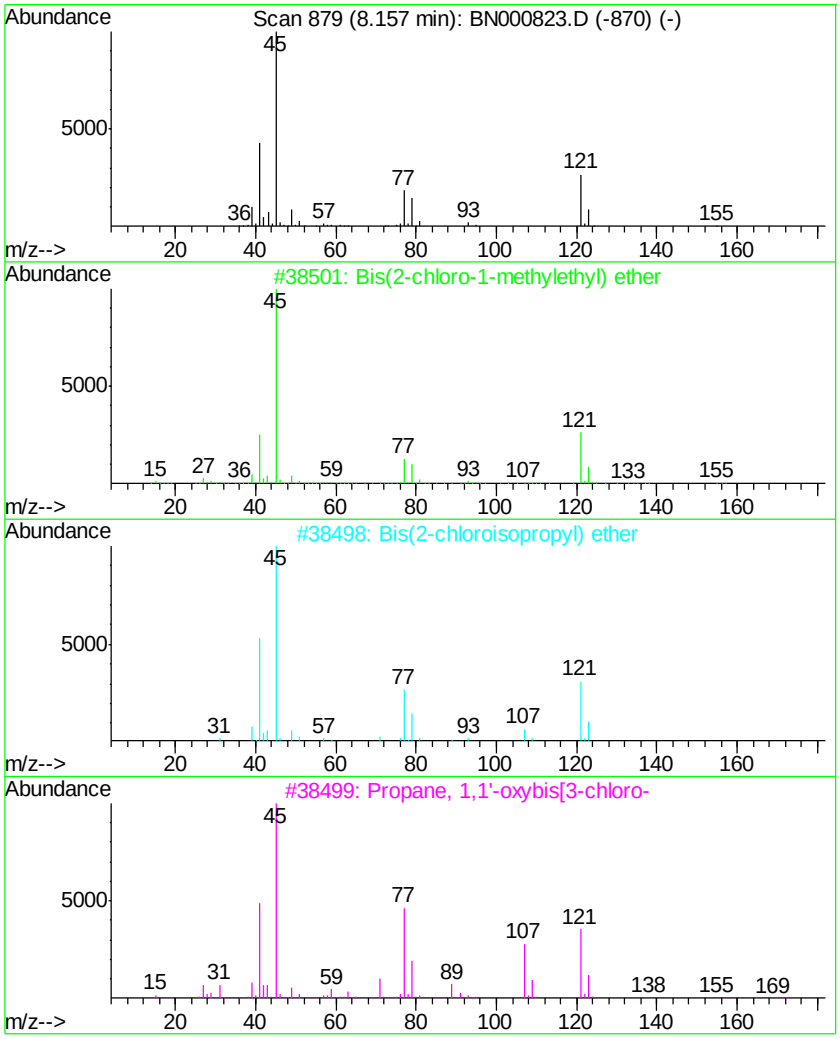
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

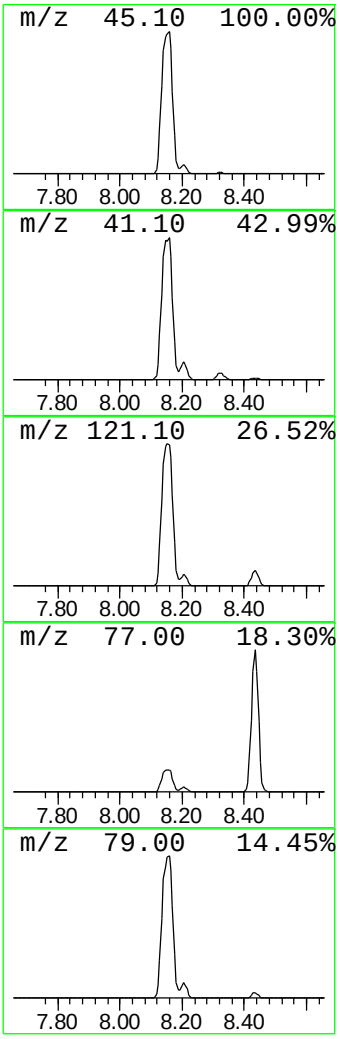
****

Peak Number 7 Bis(2-chloro-1-methylethyl)... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.16	32.14 ng/ul	1175420	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(2-chloro-1-methylethyl) ether	170	C6H12Cl2O	000108-60-1	83
2	Bis(2-chloroisopropyl) ether	170	C6H12Cl2O	039638-32-9	83
3	Propane, 1,1'-oxybis[3-chloro-	170	C6H12Cl2O	000629-36-7	78
4	Propane, 1,1'-oxybis[2-chloro-	170	C6H12Cl2O	054460-96-7	64
5	Bis(2-chloroisopropyl) ether	170	C6H12Cl2O	039638-32-9	53





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
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Sample : J2467-03
Misc :
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Instrument : BNA_N
ClientSampleId : A3Y03

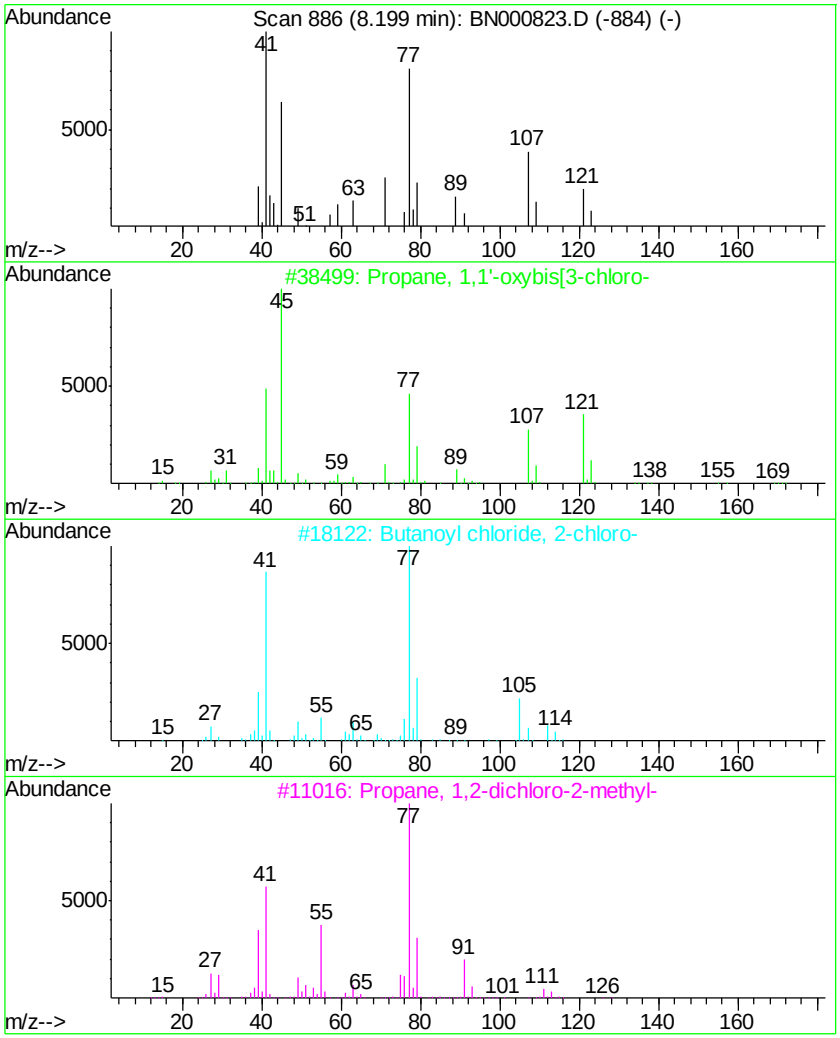
Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

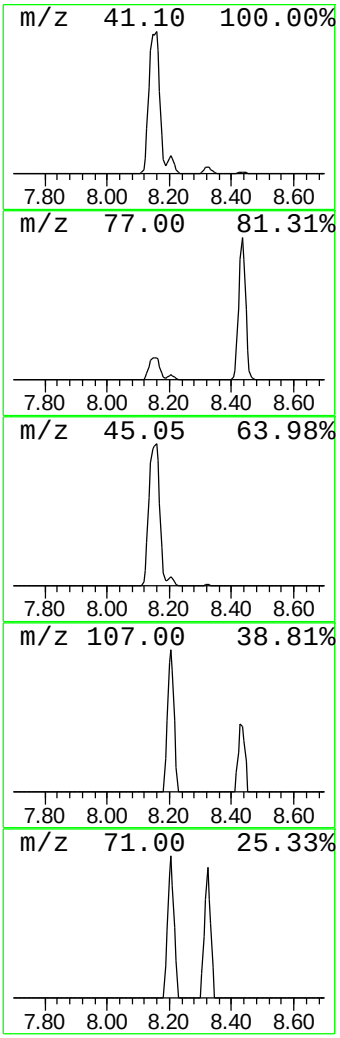
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Propane, 1,1'-oxybis[3-chloro- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.20	2.09 ng/ul	76606	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1'-oxybis[3-chloro-	170	C6H12Cl2O	000629-36-7	64
2	Butanoyl chloride, 2-chloro-	140	C4H6Cl2O	007623-11-2	16
3	Propane, 1,2-dichloro-2-methyl-	126	C4H8Cl2	000594-37-6	12
4	Propane, 1,1'-oxybis[2-chloro-	170	C6H12Cl2O	054460-96-7	10
5	Vinyl chloroacetate	120	C4H5ClO2	002549-51-1	10





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Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

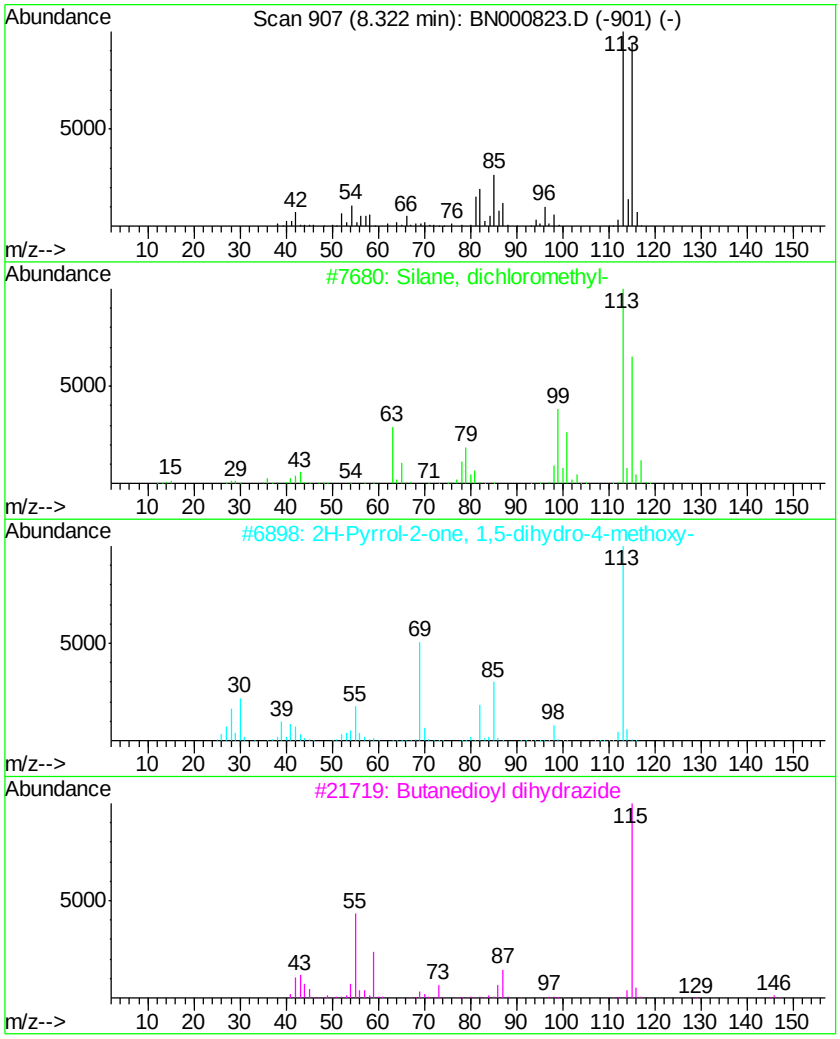
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

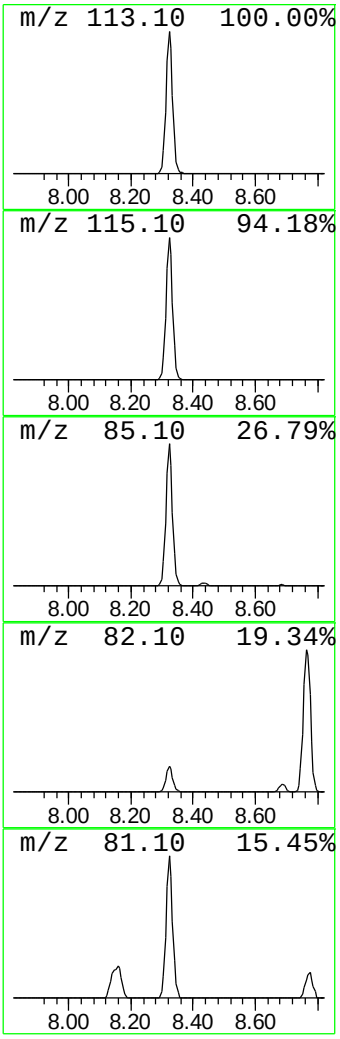
****

Peak Number 9 unknown-02 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.32	25.60 ng/ul	936380	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silane, dichloromethyl-	114	CH4Cl2Si	000075-54-7	36
2	2H-Pyrrol-2-one, 1,5-dihydro-4-m...	113	C5H7NO2	069778-83-2	32
3	Butanedioyl dihydrazide	146	C4H10N4O2	004146-43-4	27
4	2(3H)-Oxazolethione, 4-methyl-	115	C4H5NOS	013016-17-6	22
5	Piperidine-2,5-dione	113	C5H7NO2	052065-78-8	17





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Data File : BN000823.D
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Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

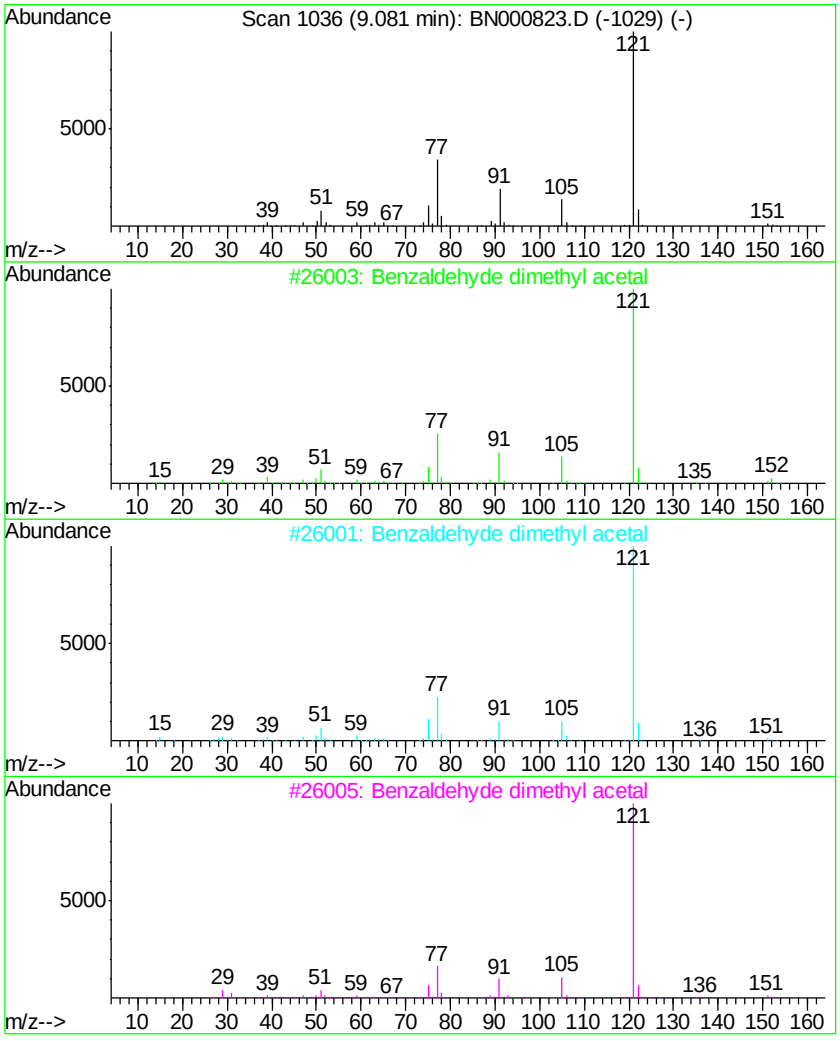
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

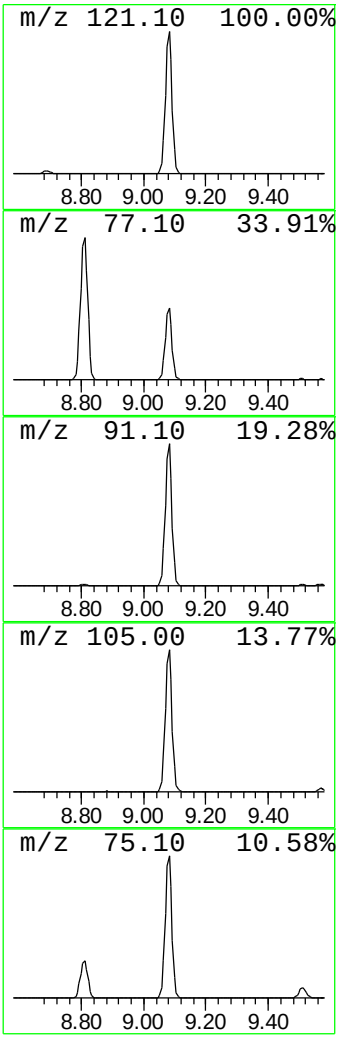
****

Peak Number 14 Benzaldehyde dimethyl acetal Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	29.41 ng/ul	1569390	Naphthalene-d8	10.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde dimethyl acetal	152	C9H12O2	001125-88-8	91
2	Benzaldehyde dimethyl acetal	152	C9H12O2	001125-88-8	91
3	Benzaldehyde dimethyl acetal	152	C9H12O2	001125-88-8	86
4	Benzeneacetic acid, .alpha.-meth...	180	C10H12O3	056143-21-6	78
5	Benzeneacetic acid, .alpha.-meth...	180	C10H12O3	056143-21-6	72





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

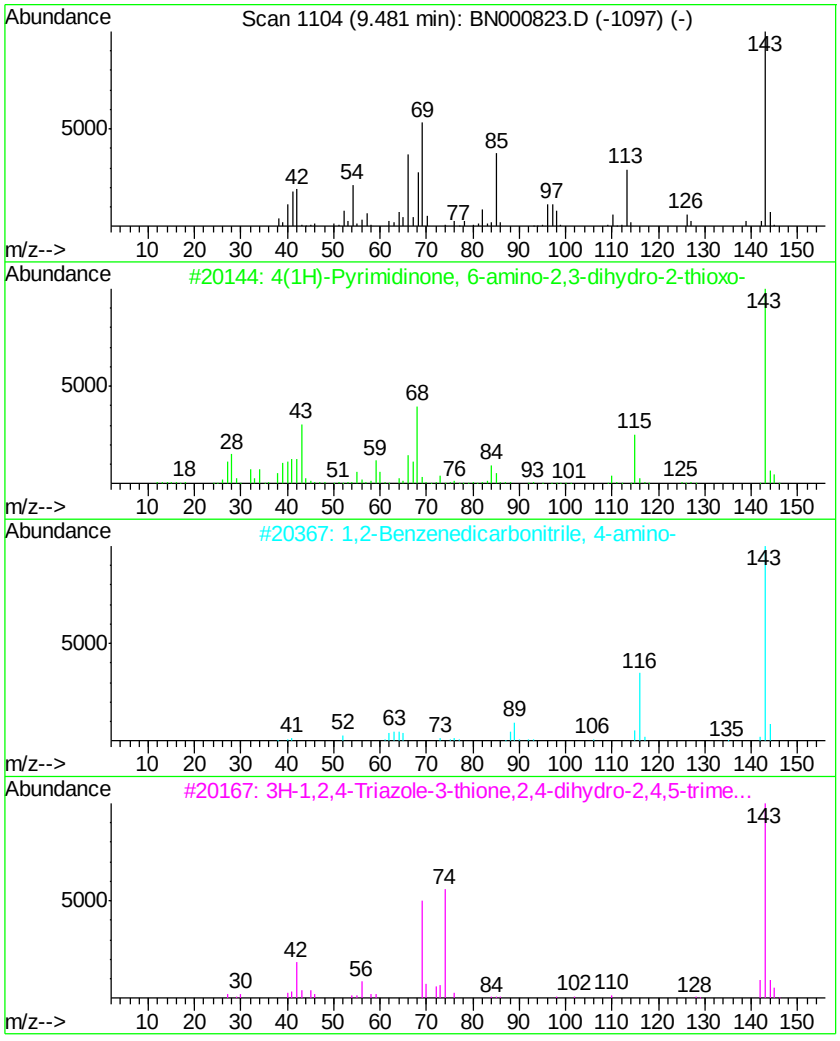
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

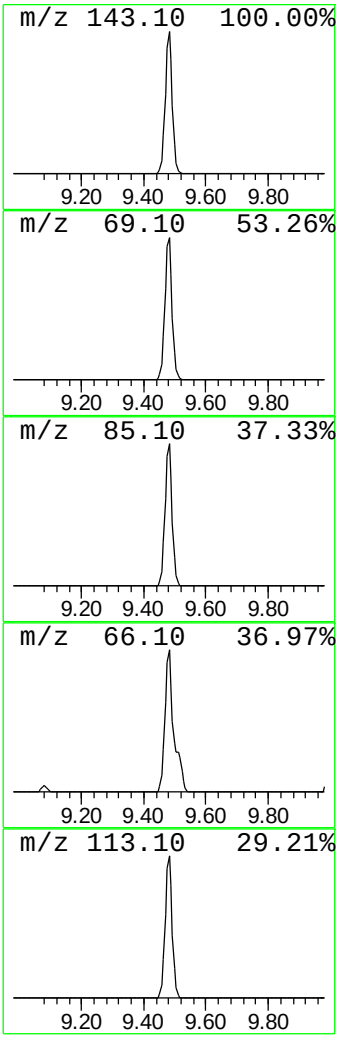
****

Peak Number 15 unknown-03 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.48	10.83 ng/ul	578032	Naphthalene-d8	10.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4(1H)-Pyrimidinone, 6-amino-2,3-...	143	C4H5N3OS	001004-40-6	17
2	1,2-Benzenedicarbonitrile, 4-amino-	143	C8H5N3	056765-79-8	14
3	3H-1,2,4-Triazole-3-thione,2,4-d...	143	C5H9N3S	037526-42-4	14
4	1,2-Benzenedicarbonitrile, 4-amino-	143	C8H5N3	056765-79-8	14
5	4(1H)-Pyrimidinone, 6-amino-2,3-...	143	C4H5N3OS	001004-40-6	12





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Operator : JU/SJ
Sample : J2467-03
Misc :
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Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

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

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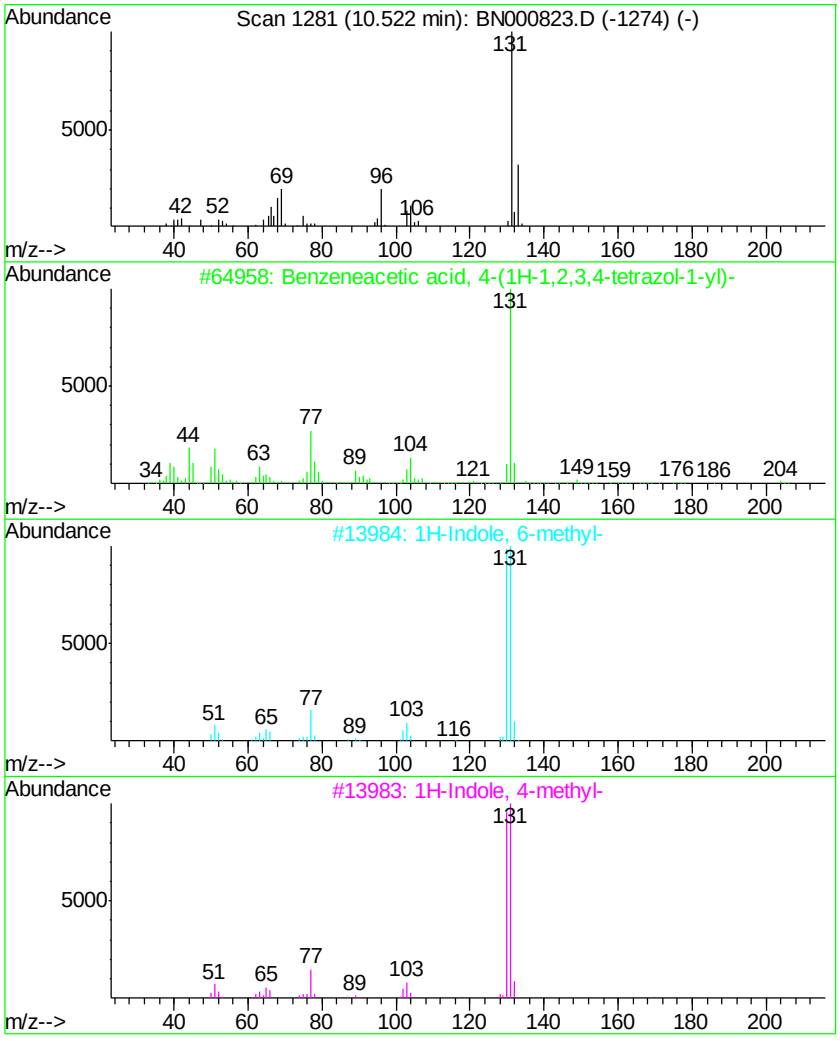
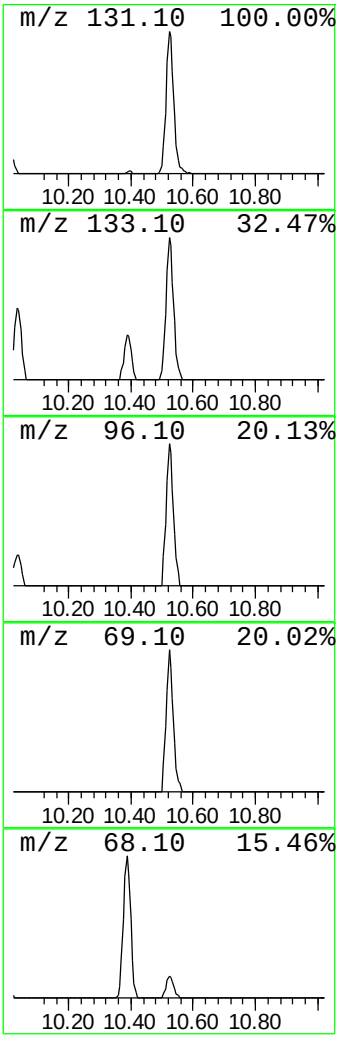
Peak Number 17 unknown-04 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.52	2.57 ng/ul	137281	Naphthalene-d8	10.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetic acid, 4-(1H-1,2,3,...	204	C9H8N4O2	1000351-56-5	28
2	1H-Indole, 6-methyl-	131	C9H9N	003420-02-8	28
3	1H-Indole, 4-methyl-	131	C9H9N	016096-32-5	28
4	1H-Indole, 5-methyl-	131	C9H9N	000614-96-0	28
5	1H-Indole, 7-methyl-	131	C9H9N	000933-67-5	28





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Quant Title : SVOA CALIBRATION

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

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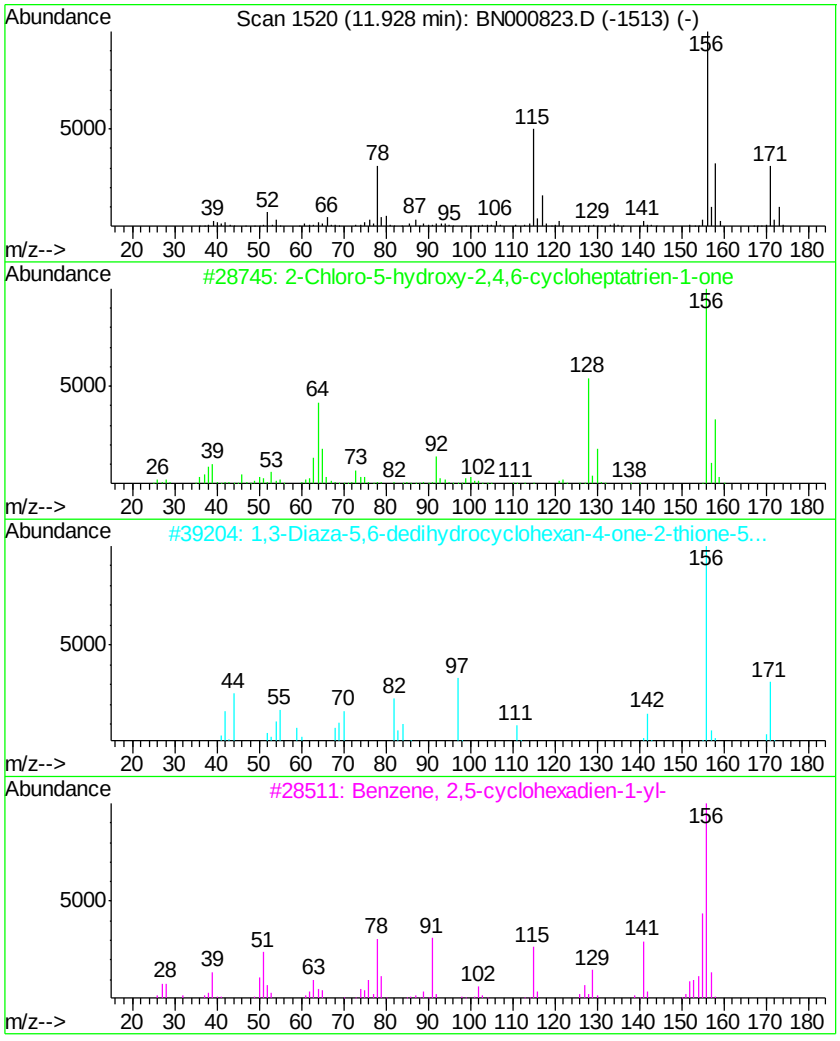
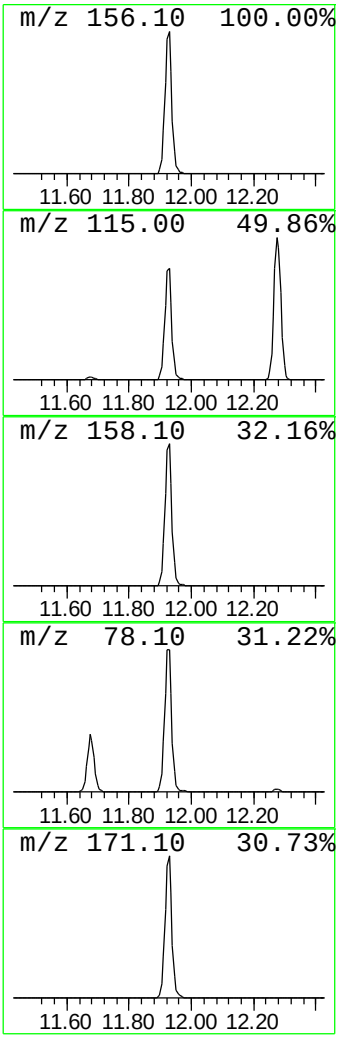
Peak Number 19 unknown-05 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	28.75 ng/ul	1534310	Naphthalene-d8	10.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohe...	156	C7H5ClO2	007009-16-7	43
2	1,3-Diaza-5,6-dedihydrocyclohexa...	171	C6H9N3OS	021263-85-4	38
3	Benzene, 2,5-cyclohexadien-1-yl-	156	C12H12	004794-05-2	38
4	1,2,3,4-Tetrahydropentalene, 1,1...	171	C12H13N	1000217-18-6	37
5	6-Isopropylquinoline	171	C12H13N	000135-79-5	32





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Quant Title : SVOA CALIBRATION

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

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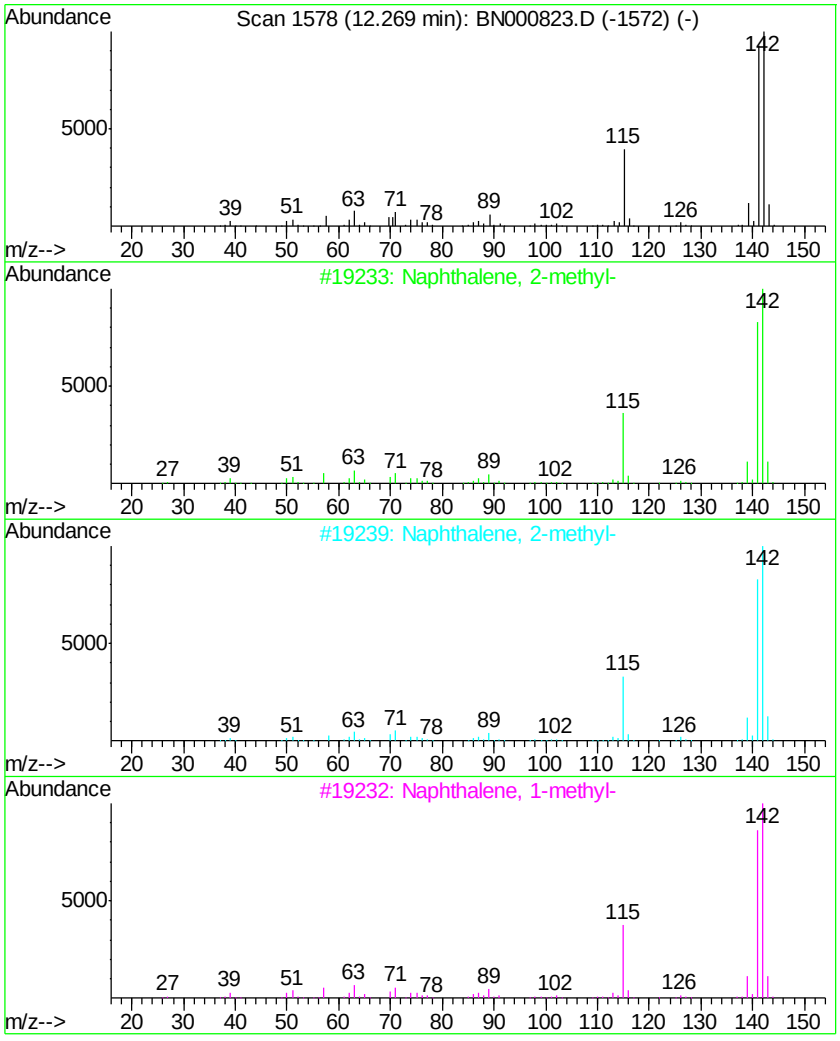
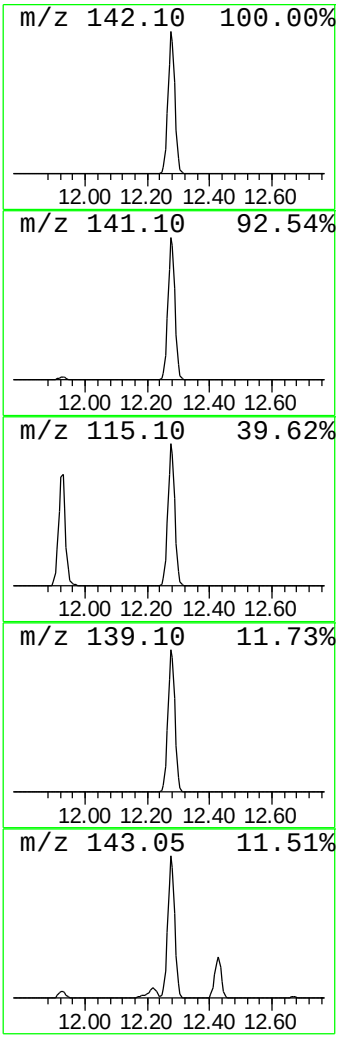
Peak Number 20 Naphthalene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	40.49 ng/ul	2160580	Naphthalene-d8	10.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	93





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Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

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

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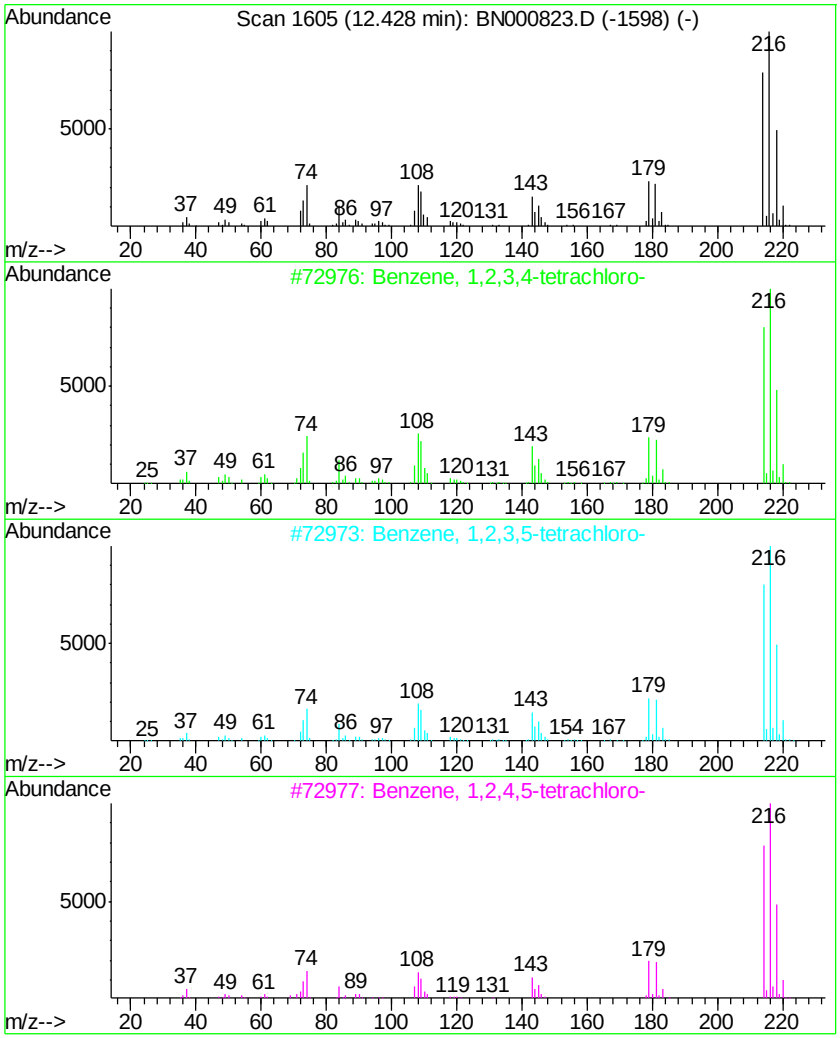
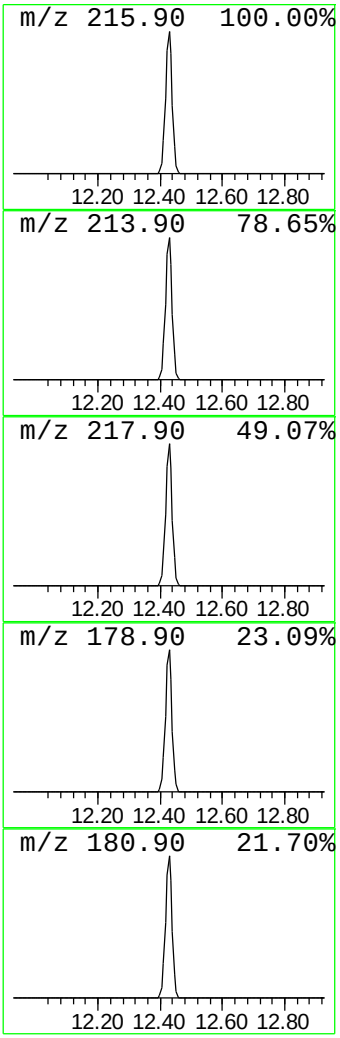
Peak Number 21 Benzene, 1,2,3,4-tetrachloro- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	11.06 ng/ul	667802	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetrachloro-	214	C6H2Cl4	000634-66-2	99
2	Benzene, 1,2,3,5-tetrachloro-	214	C6H2Cl4	000634-90-2	99
3	Benzene, 1,2,4,5-tetrachloro-	214	C6H2Cl4	000095-94-3	99
4	Benzene, 1,2,4,5-tetrachloro-	214	C6H2Cl4	000095-94-3	99
5	Benzene, 1,2,3,4-tetrachloro-	214	C6H2Cl4	000634-66-2	99





Library Search Compound Report

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Quant Title : SVOA CALIBRATION

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

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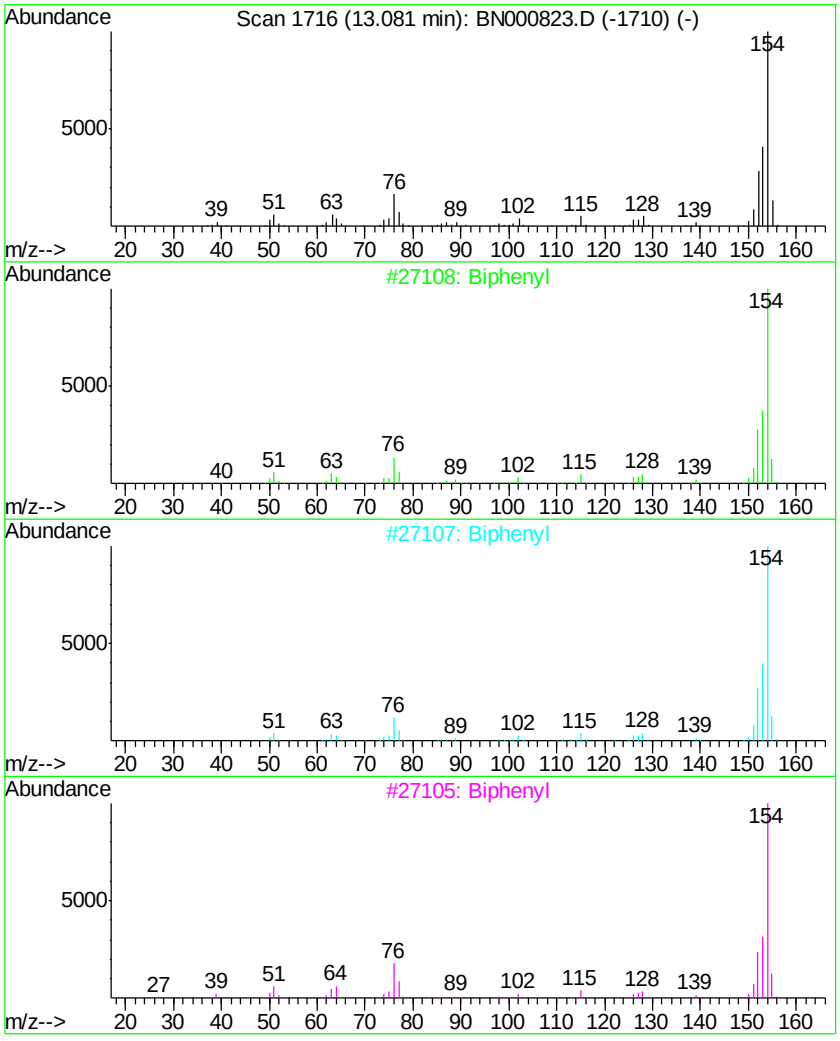
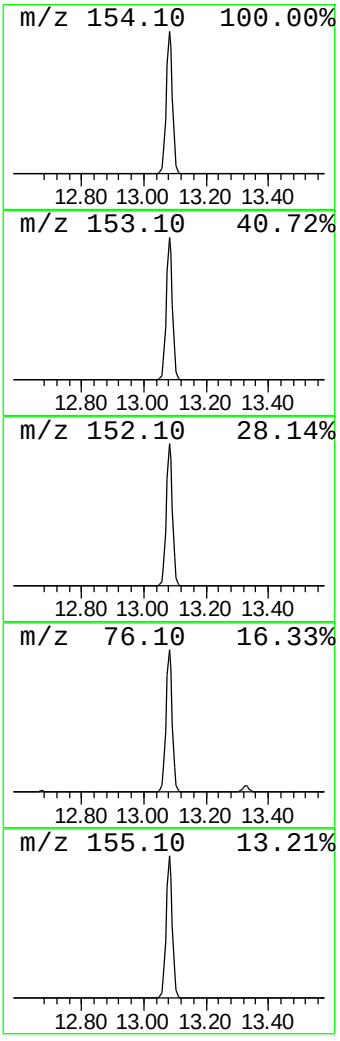
Peak Number 23 Biphenyl Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	34.22 ng/ul	2065570	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl	154	C12H10	000092-52-4	95
2	Biphenyl	154	C12H10	000092-52-4	95
3	Biphenyl	154	C12H10	000092-52-4	93
4	Biphenyl	154	C12H10	000092-52-4	93
5	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	91





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Quant Title : SVOA CALIBRATION

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

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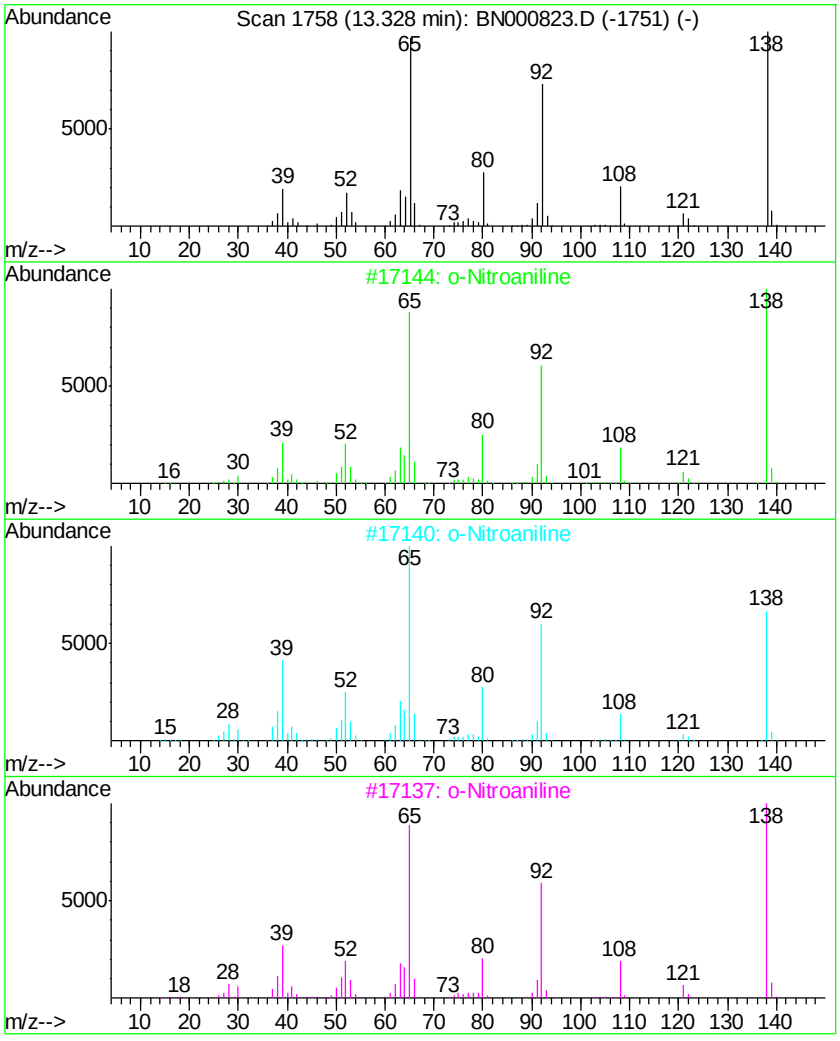
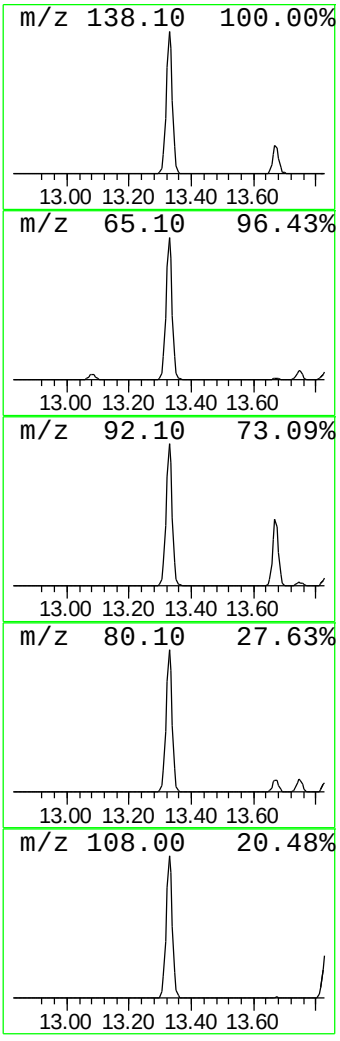
Peak Number 24 o-Nitroaniline Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.33	16.80 ng/ul	1013870	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Nitroaniline	138	C6H6N2O2	000088-74-4	98
2	o-Nitroaniline	138	C6H6N2O2	000088-74-4	97
3	o-Nitroaniline	138	C6H6N2O2	000088-74-4	96
4	o-Nitroaniline	138	C6H6N2O2	000088-74-4	91
5	p-Nitroaniline	138	C6H6N2O2	000100-01-6	91





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

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Quant Title : SVOA CALIBRATION

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

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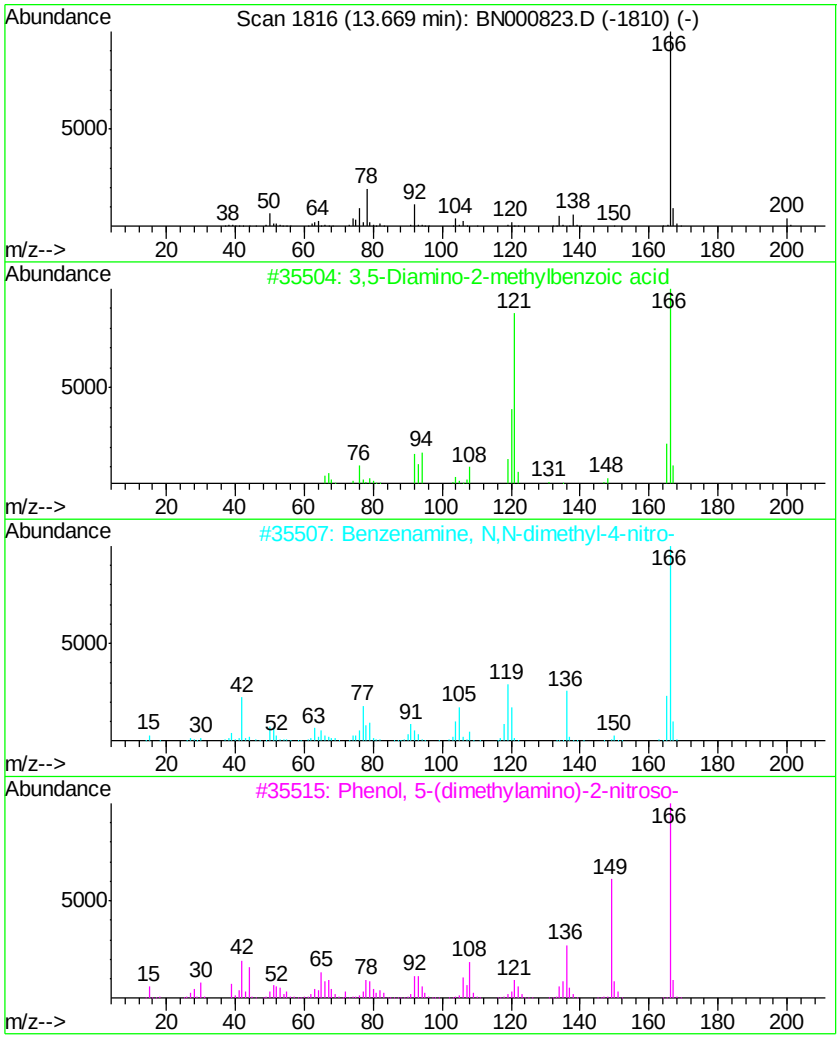
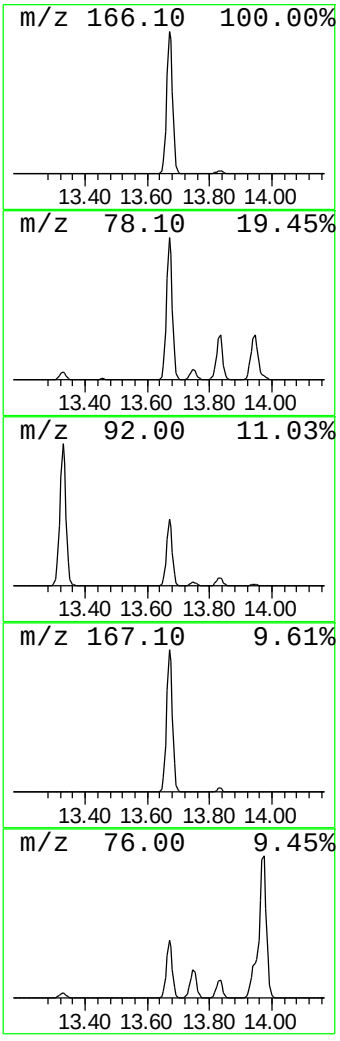
Peak Number 25 3,5-Diamino-2-methylbenzoic... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	21.20 ng/ul	1279770	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Diamino-2-methylbenzoic acid	166	C8H10N2O2	090007-30-0	58
2	Benzenamine, N,N-dimethyl-4-nitro-	166	C8H10N2O2	000100-23-2	36
3	Phenol, 5-(dimethylamino)-2-nitr...	166	C8H10N2O2	016761-04-9	33
4	3,5-Diamino-2-methylbenzoic acid	166	C8H10N2O2	090007-30-0	33
5	1H-Purine-2,6-dione, 3,7-dihydro...	166	C6H6N4O2	006136-37-4	9





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

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

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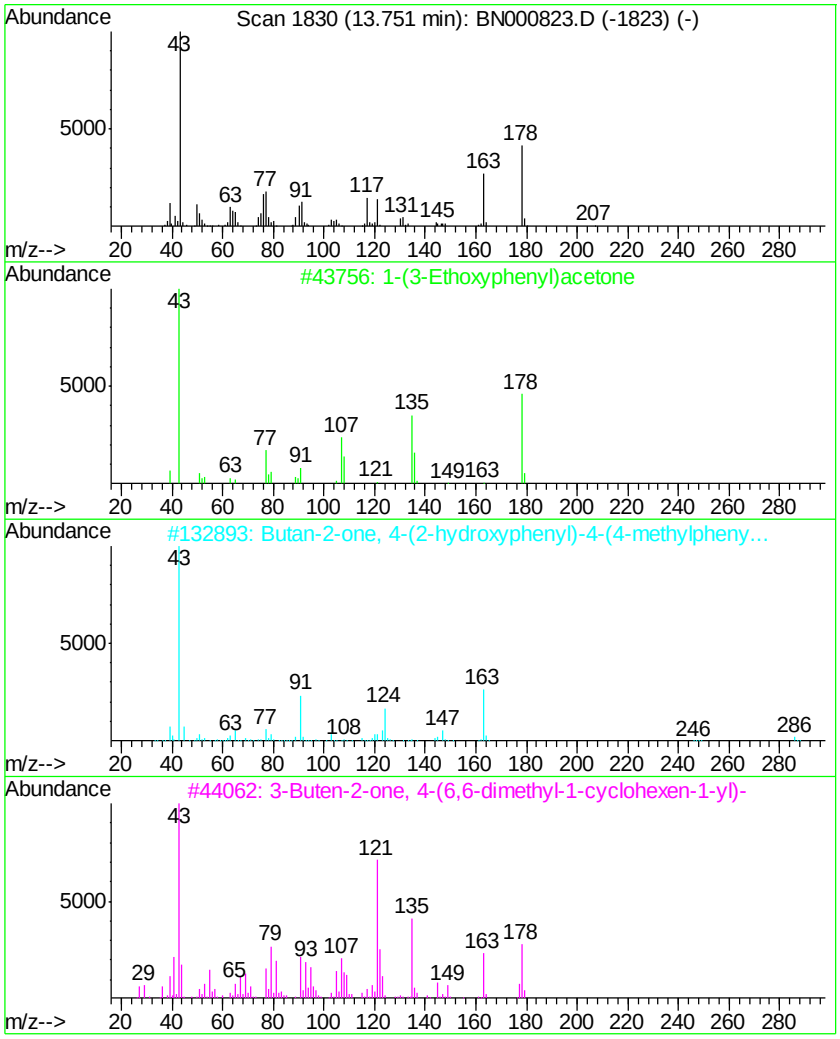
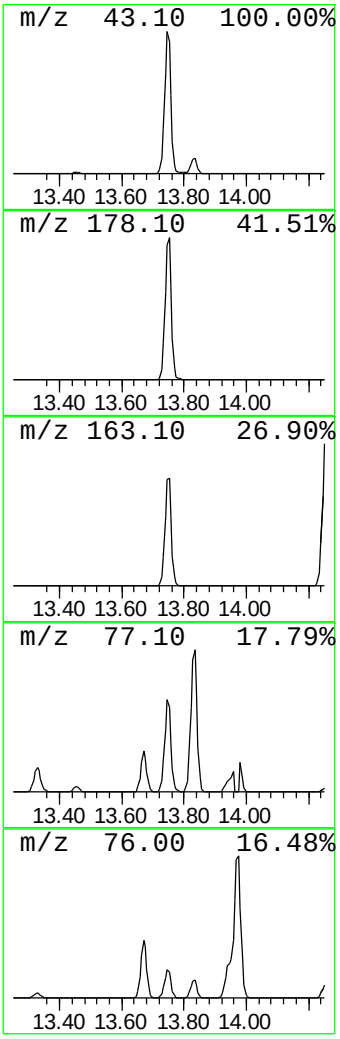
Peak Number 26 unknown-06 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	11.51 ng/ul	694776	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(3-Ethoxyphenyl)acetone	178	C11H14O2	023037-47-0	25
2	Butan-2-one, 4-(2-hydroxyphenyl)...	286	C17H18O2S	296891-93-5	14
3	3-Buten-2-one, 4-(6,6-dimethyl-1...	178	C12H18O	065133-79-1	12
4	2,6-Diacetylpyridine	163	C9H9NO2	001129-30-2	10
5	1-Ethanone, 1-(5-fluoro-1H-1,3-b...	178	C9H7FN2O	1000362-63-4	9





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Quant Title : SVOA CALIBRATION

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

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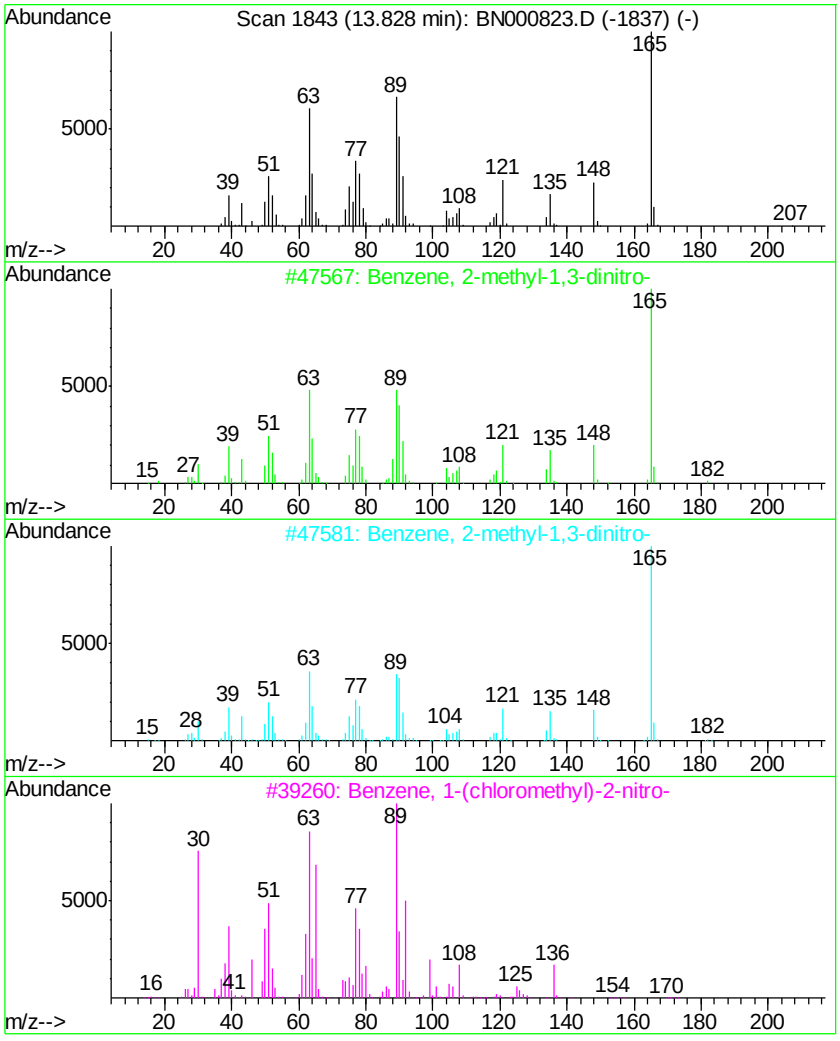
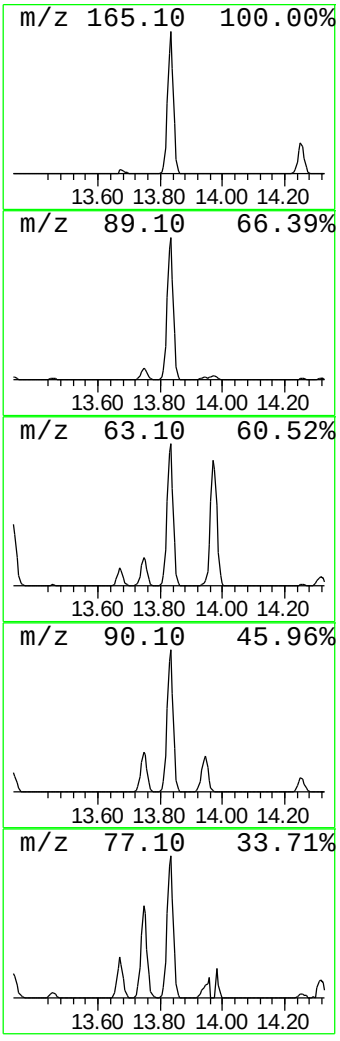
Peak Number 27 Benzene, 2-methyl-1,3-dinitro- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	17.12 ng/ul	1033540	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-methyl-1,3-dinitro-	182	C7H6N2O4	000606-20-2	91
2	Benzene, 2-methyl-1,3-dinitro-	182	C7H6N2O4	000606-20-2	46
3	Benzene, 1-(chloromethyl)-2-nitro-	171	C7H6ClNO2	000612-23-7	38
4	1H-Benzotriazole, 4-nitro-	164	C6H4N4O2	006299-39-4	32
5	Benzene, 2-methyl-1,3-dinitro-	182	C7H6N2O4	000606-20-2	27





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Misc :
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Quant Title : SVOA CALIBRATION

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

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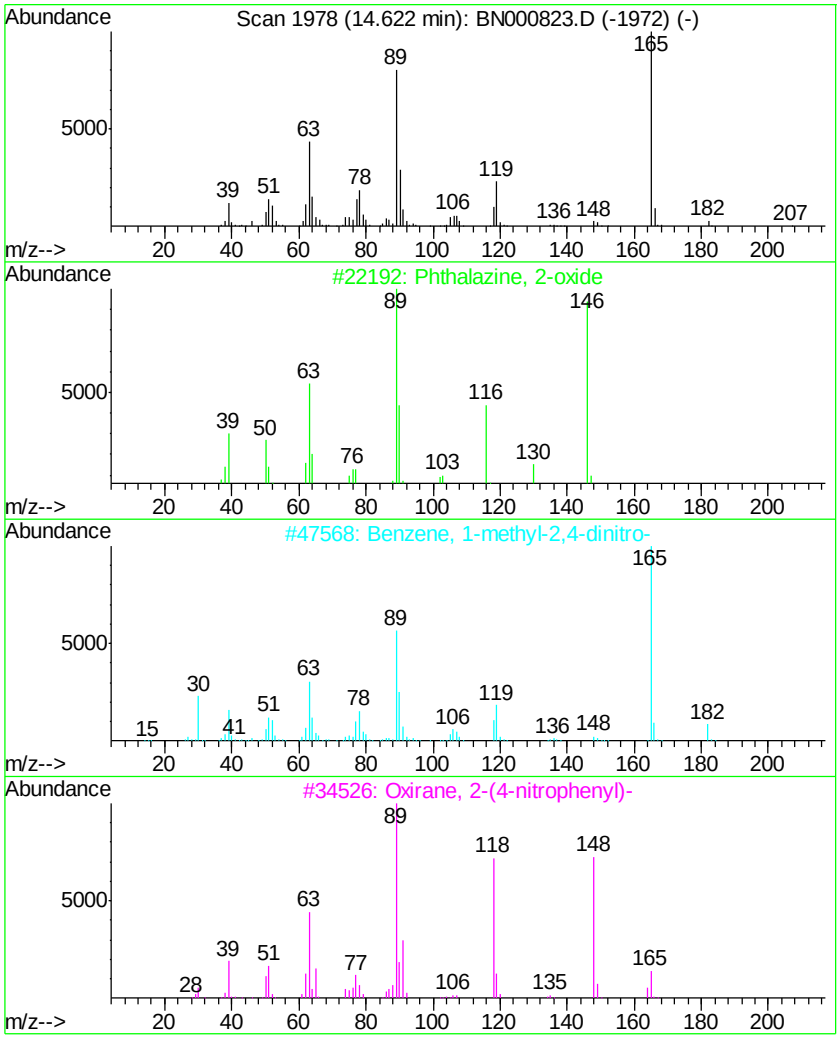
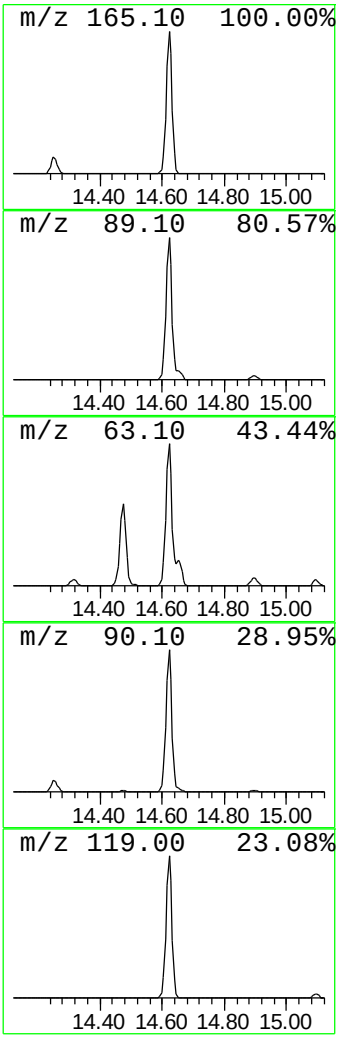
Peak Number 29 unknown-07 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	23.62 ng/ul	1425690	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalazine, 2-oxide	146	C8H6N2O	018636-89-0	39
2	Benzene, 1-methyl-2,4-dinitro-	182	C7H6N2O4	000121-14-2	30
3	Oxirane, 2-(4-nitrophenyl)-	165	C8H7NO3	1000362-15-5	28
4	Benzeneacetonitrile, 4-nitro-	162	C8H6N2O2	000555-21-5	25
5	Cinnoline, 3-methoxy-	160	C9H8N2O	017372-80-4	25





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Misc :
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Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

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

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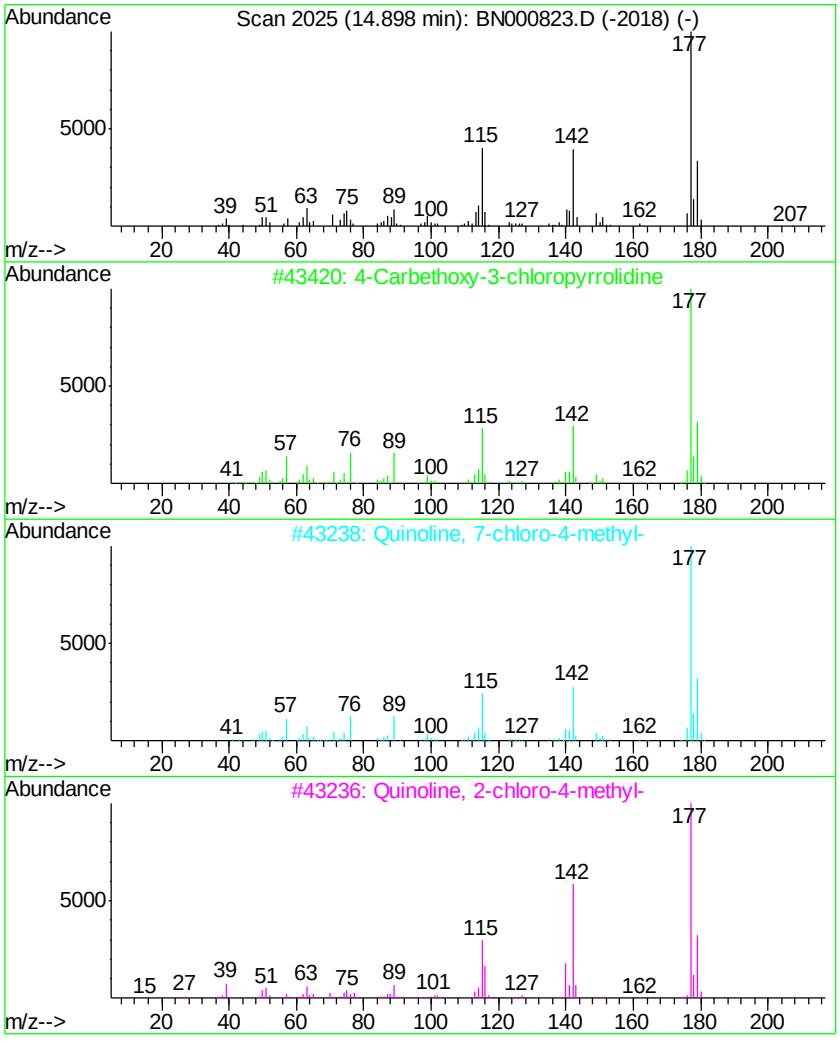
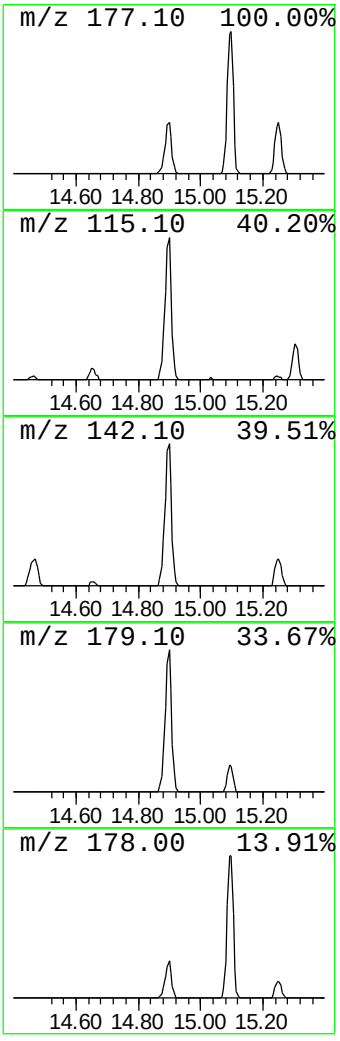
Peak Number 31 4-Carbethoxy-3-chloropyrrol... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	5.04 ng/ul	304459	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Carbethoxy-3-chloropyrrolidine	177	C7H12ClNO2	1000255-97-9	94
2	Quinoline, 7-chloro-4-methyl-	177	C10H8ClN	040941-53-5	91
3	Quinoline, 2-chloro-4-methyl-	177	C10H8ClN	000634-47-9	87
4	Quinoline, 7-chloro-2-methyl-	177	C10H8ClN	004965-33-7	87
5	6-Chloro-2-methylquinoline	177	C10H8ClN	000092-46-6	87





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Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

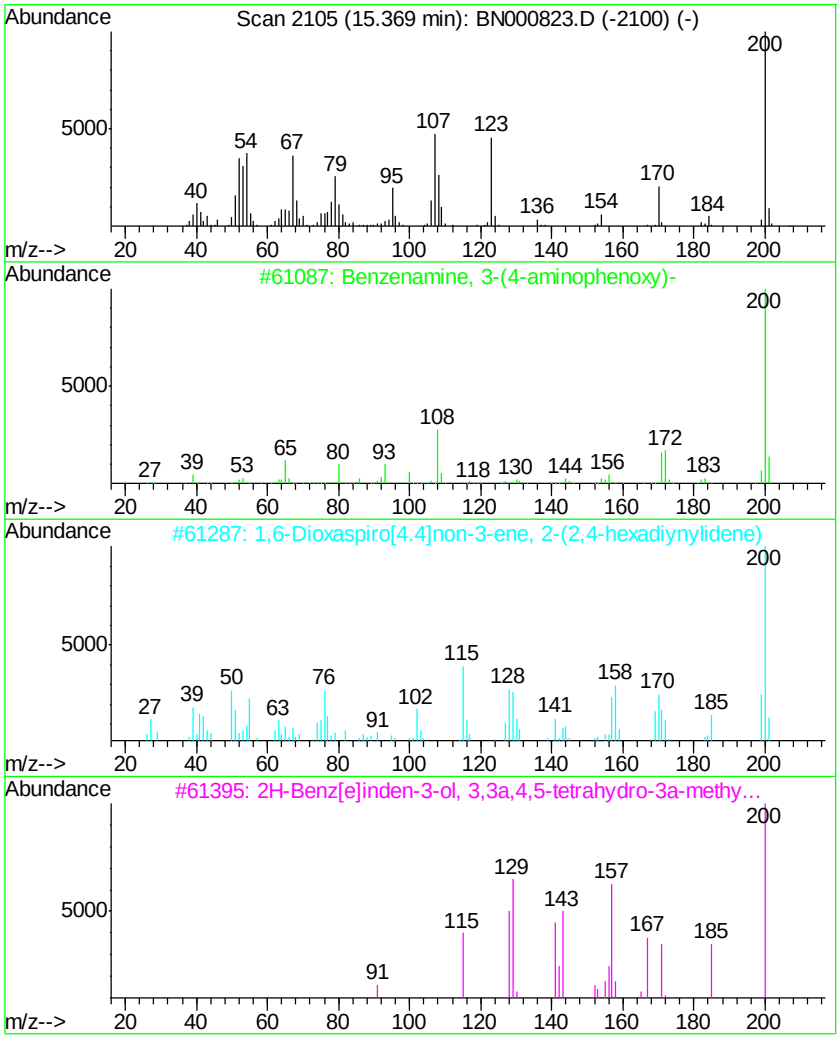
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

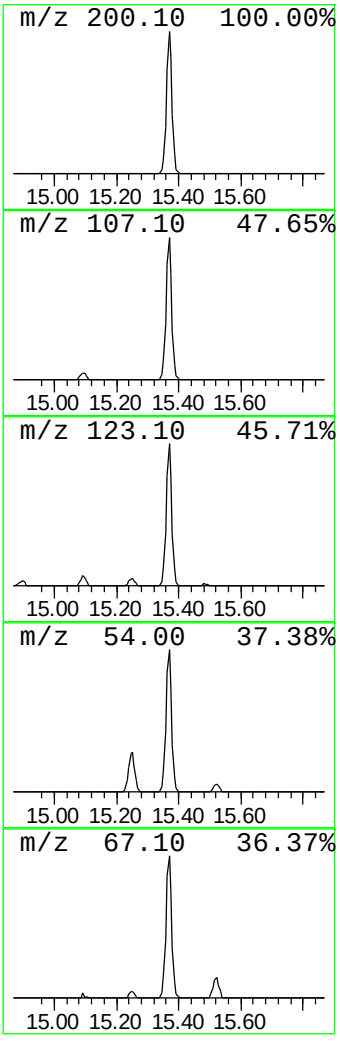
****

Peak Number 33 unknown-08 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	10.55 ng/ul	636944	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 3-(4-aminophenoxy)-	200	C12H12N2O	002657-87-6	22
2	1,6-Dioxaspiro[4.4]non-3-ene, 2-...	200	C13H12O2	016863-61-9	22
3	2H-Benz[e]inden-3-ol, 3,3a,4,5-t...	200	C14H16O	071805-91-9	18
4	Benzenamine, 4,4'-oxybis-	200	C12H12N2O	000101-80-4	14
5	Benzenamine, 4,4'-oxybis-	200	C12H12N2O	000101-80-4	14





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Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

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

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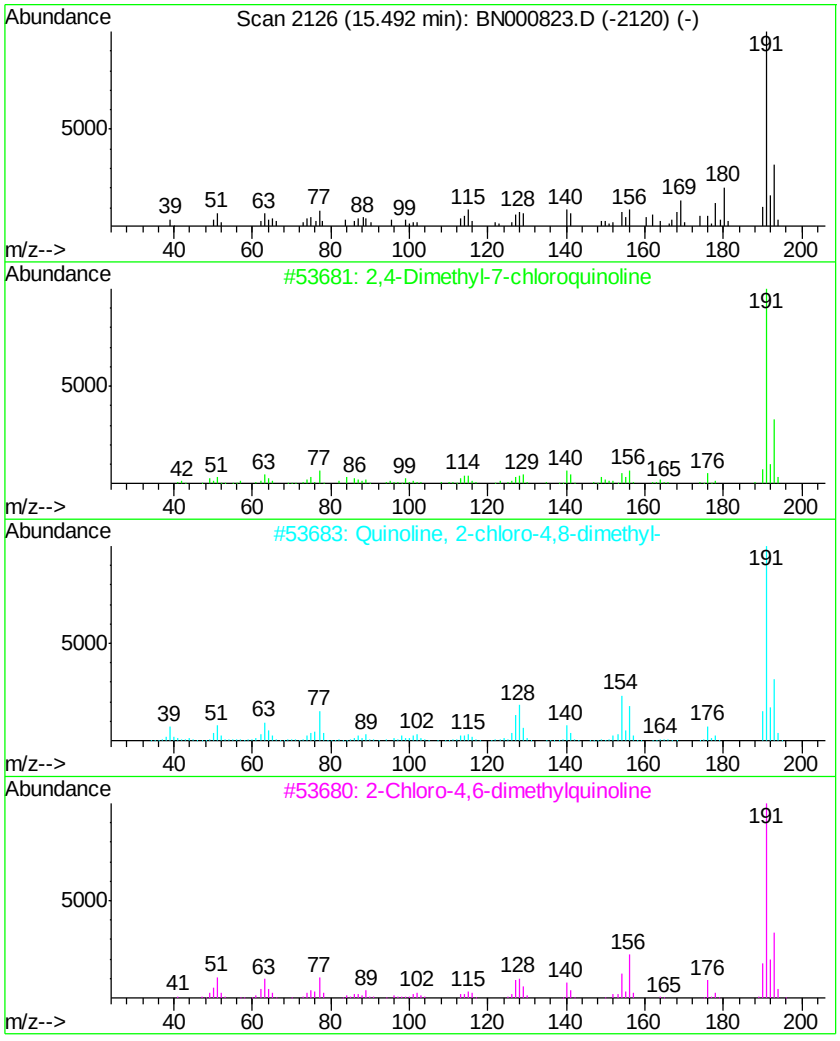
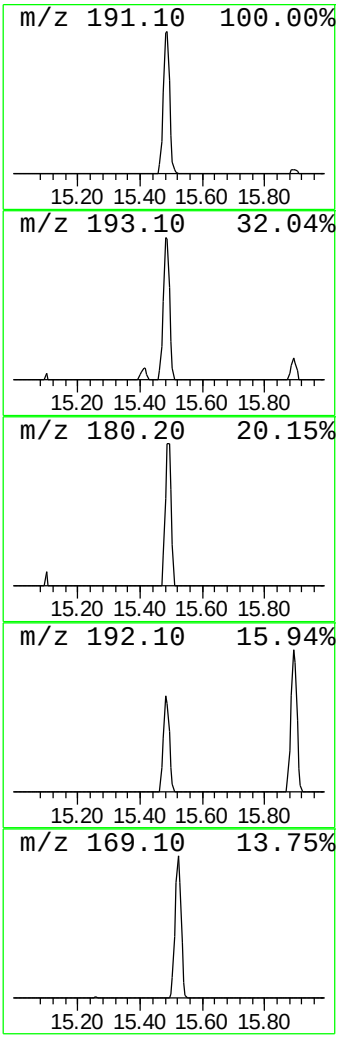
Peak Number 34 2,4-Dimethyl-7-chloroquinoline Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	2.07 ng/ul	124861	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dimethyl-7-chloroquinoline	191	C11H10ClN	088499-96-1	95
2	Quinoline, 2-chloro-4,8-dimethyl-	191	C11H10ClN	1000337-72-5	87
3	2-Chloro-4,6-dimethylquinoline	191	C11H10ClN	003913-18-6	58
4	Amiphenazole	191	C9H9N3S	000490-55-1	49
5	2,4,7-Pteridinetriamine, 6-methyl-	191	C7H9N7	017539-50-3	47





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

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

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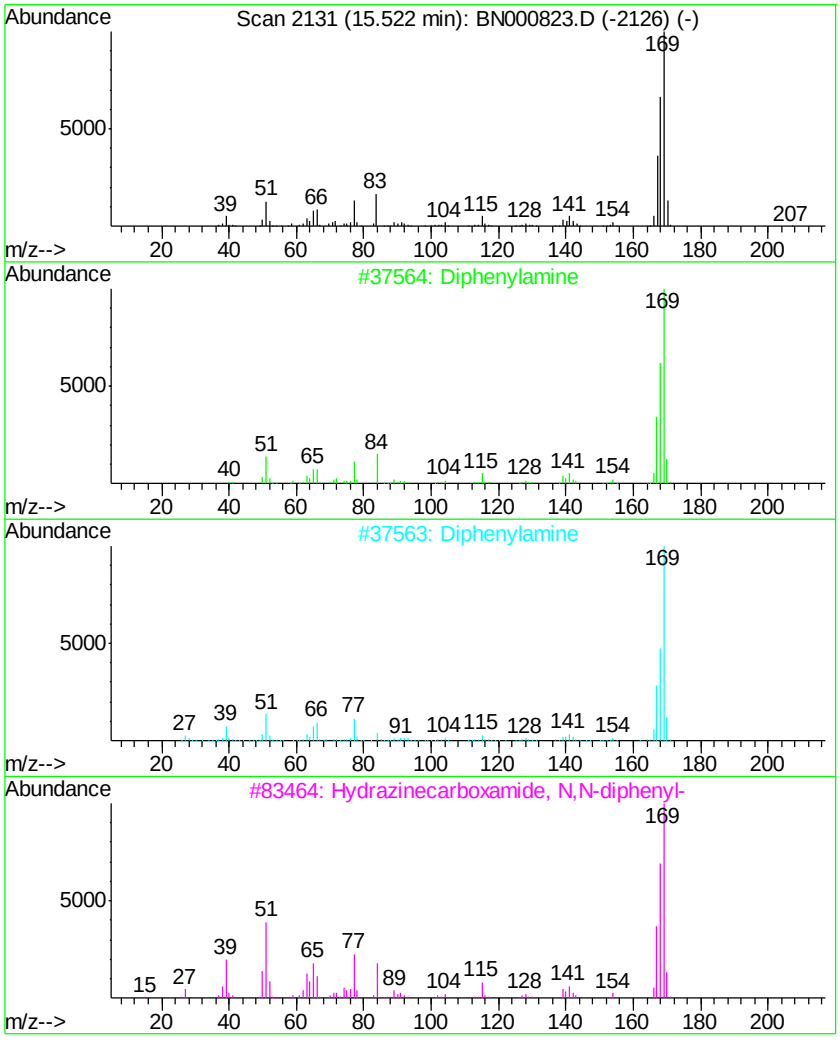
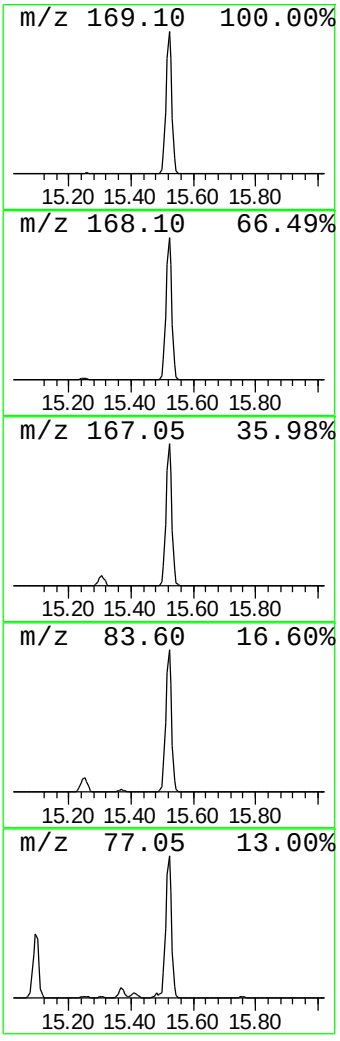
Peak Number 35 Diphenylamine Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.52	44.65 ng/ul	2695060	Acenaphthene-d10	14.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylamine	169	C12H11N	000122-39-4	95
2	Diphenylamine	169	C12H11N	000122-39-4	93
3	Hydrazinecarboxamide, N,N-diphenyl-	227	C13H13N3O	000603-51-0	90
4	Diphenylamine	169	C12H11N	000122-39-4	81
5	Pyridine, 4-(phenylmethyl)-	169	C12H11N	002116-65-6	76





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

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

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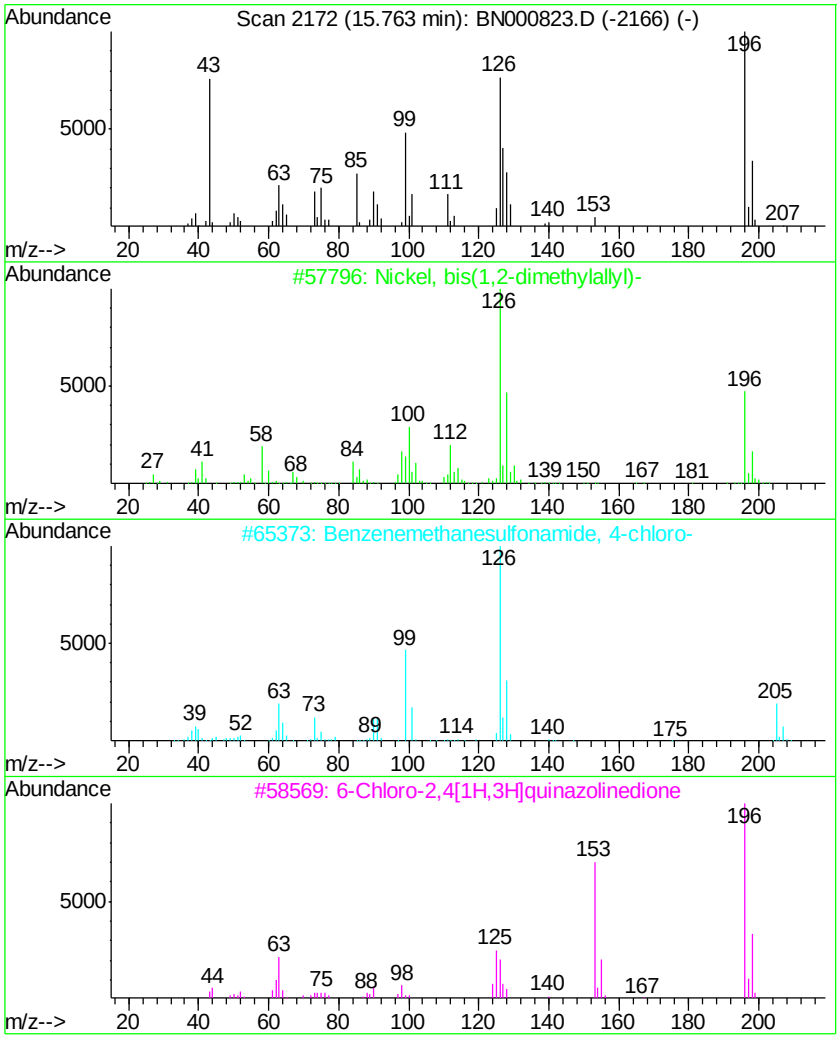
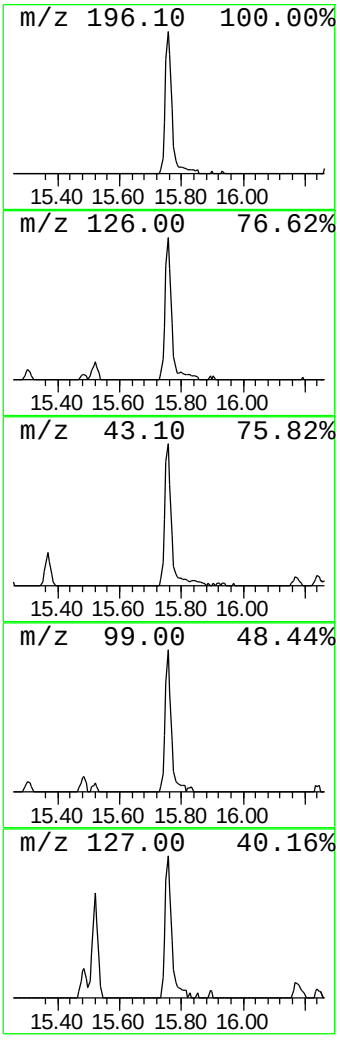
Peak Number 36 unknown-09 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.76	2.85 ng/ul	193115	Phenanthrene-d10	17.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nickel, bis(1,2-dimethylallyl)-	196	C10H18Ni	1000150-48-3	38
2	Benzenemethanesulfonamide, 4-chl...	205	C7H8ClNO2S	071799-35-4	38
3	6-Chloro-2,4[1H,3H]quinazolinedione	196	C8H5ClN2O2	001640-60-4	27
4	p-Chlorophenylhydroxylamine	143	C6H6ClNO	000823-86-9	25
5	Naphthalene, 1,5-dichloro-	196	C10H6Cl2	001825-30-5	22





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

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

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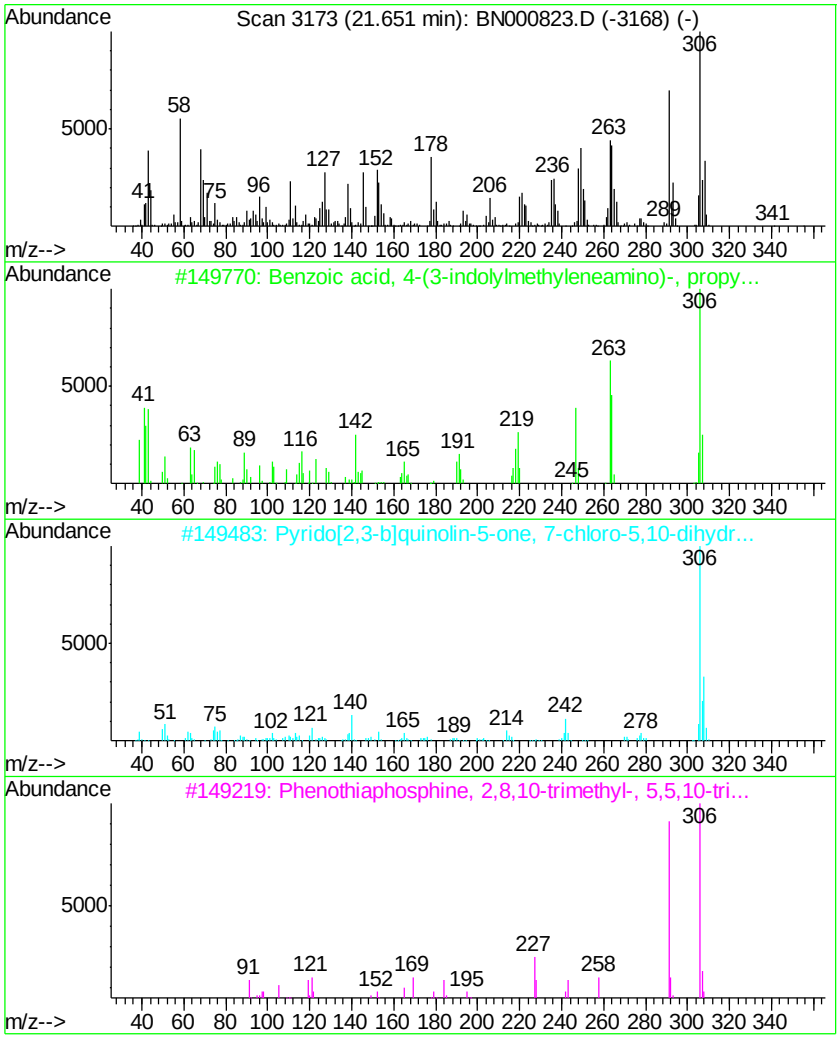
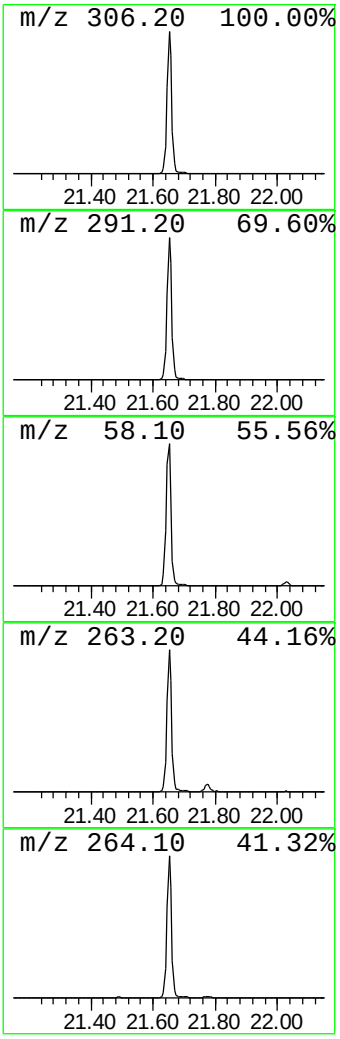
Peak Number 39 unknown-10 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.65	13.21 ng/ul	3023190	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 4-(3-indolylmethyl...	306	C19H18N2O2	304669-02-1	46
2	Pyrido[2,3-b]quinolin-5-one, 7-c...	306	C18H11ClN2O	069750-07-8	38
3	Phenothiaphosphine, 2,8,10-trime...	306	C15H15O3PS	024059-97-0	27
4	Acetamide, 2-[(4,5-dihydro-6-met...	306	C13H14N4O3S	1000317-32-8	25
5	Dibenzo[def,mno]chrysene-6,12-dione	306	C22H10O2	000641-13-4	22





Data Path : Z:\HPCHEM1\BNA N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

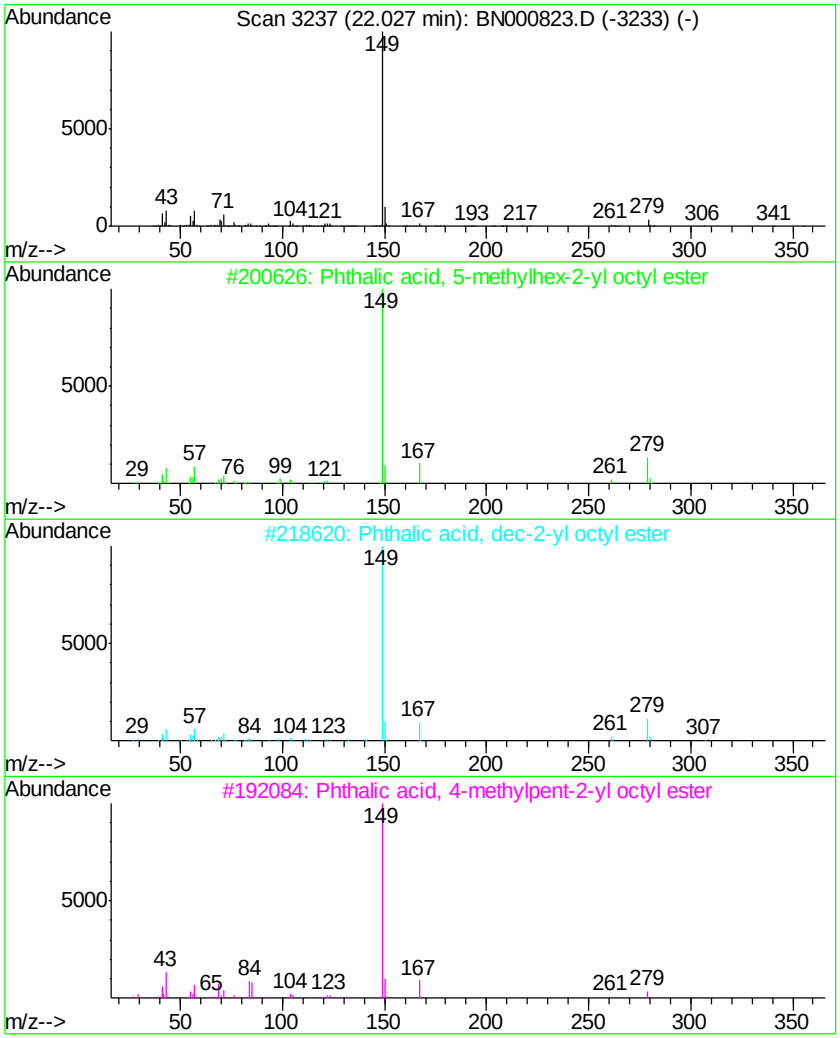
Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

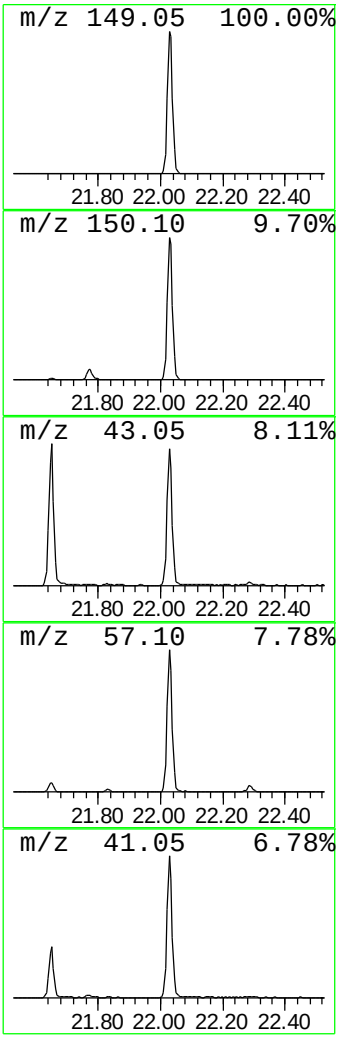
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 40 Phthalic acid, 5-methylhex-... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.03	8.26 ng/ul	1889200	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, 5-methylhex-2-yl ...	376	C23H36O4	1000371-08-6	86
2	Phthalic acid, dec-2-yl octyl ester	418	C26H42O4	1000356-94-4	86
3	Phthalic acid, 4-methylpent-2-yl...	362	C22H34O4	1000356-87-8	86
4	Phthalic acid, 2-ethylbutyl octy...	362	C22H34O4	1000356-89-3	86
5	Phthalic acid, hexyl octyl ester	362	C22H34O4	1000308-97-8	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_N\Data\BN042318\
Data File : BN000823.D
Acq On : 23 Apr 2018 11:58
Operator : JU/SJ
Sample : J2467-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : A3Y03

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.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
2-Pentanone, 4-hy...	4.80	2.0	ng/ul	74295	1	7.62	731500	20.0
unknown-01	7.16	22.1	ng/ul	807220	1	7.62	731500	20.0
Bis(2-chloro-1-me...	8.16	32.1	ng/ul	1175420	1	7.62	731500	20.0
Propane, 1,1'-oxy...	8.20	2.1	ng/ul	76606	1	7.62	731500	20.0
unknown-02	8.32	25.6	ng/ul	936380	1	7.62	731500	20.0
Benzaldehyde dime...	9.08	29.4	ng/ul	1569390	2	10.39	1067320	20.0
unknown-03	9.48	10.8	ng/ul	578032	2	10.39	1067320	20.0
unknown-04	10.52	2.6	ng/ul	137281	2	10.39	1067320	20.0
unknown-05	11.93	28.8	ng/ul	1534310	2	10.39	1067320	20.0
Naphthalene, 1-me...	12.27	40.5	ng/ul	2160580	2	10.39	1067320	20.0
Benzene, 1,2,3,4-...	12.43	11.1	ng/ul	667802	3	14.25	1207240	20.0
Biphenyl	13.08	34.2	ng/ul	2065570	3	14.25	1207240	20.0
o-Nitroaniline	13.33	16.8	ng/ul	1013870	3	14.25	1207240	20.0
3,5-Diamino-2-met...	13.67	21.2	ng/ul	1279770	3	14.25	1207240	20.0
unknown-06	13.75	11.5	ng/ul	694776	3	14.25	1207240	20.0
Benzene, 2-methyl...	13.83	17.1	ng/ul	1033540	3	14.25	1207240	20.0
unknown-07	14.62	23.6	ng/ul	1425690	3	14.25	1207240	20.0
4-Carbethoxy-3-ch...	14.90	5.0	ng/ul	304459	3	14.25	1207240	20.0
unknown-08	15.37	10.6	ng/ul	636944	3	14.25	1207240	20.0
2,4-Dimethyl-7-ch...	15.49	2.1	ng/ul	124861	3	14.25	1207240	20.0
Diphenylamine	15.52	44.6	ng/ul	2695060	3	14.25	1207240	20.0
unknown-09	15.76	2.9	ng/ul	193115	4	17.00	1356910	20.0
unknown-10	21.65	13.2	ng/ul	3023190	5	21.22	4576810	20.0
Phthalic acid, 5-...	22.03	8.3	ng/ul	1889200	5	21.22	4576810	20.0