LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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	5.184	480	484	496	rVB	100848	124974	12.78%	0.972%
2	5.590	550	553	572	rBV	811912	872191	89.18%	6.786%
3	6.595	720	724	735	rBV	789354	902361	92.26%	7.021%
4	6.725	742	746	750	rBV	897650	879417	89.92%	6.843%
5	6.772	750	754	764	rVB3	28294	37077	3.79%	0.288%
6	6.948	780	784	787	rBV	249403	227392	23.25%	1.769%
7	7.101	806	810	814	rBV	761390	701105	71.68%	5.455%
8	7.513	875	880	883	rBV	552098	552402	56.48%	4.298%
9	8.231	998	1002	1005	rBV	312462	271095	27.72%	2.109%
10	8.254	1005	1006	1012	rVB2	33930	22724	2.32%	0.177%
11	8.795	1095	1098	1104	rVB	11663	11327	1.16%	0.088%
12	8.948	1121	1124	1128	rBV	21475	20267	2.07%	0.158%
13	9.042	1138	1140	1145	rVB	13578	11915	1.22%	0.093%
14	9.301	1180	1184	1188	rBV	1002755	968406	99.01%	7.535%
15	9.366	1192	1195	1198	rVV2	17259	18686	1.91%	0.145%
16	9.407	1198	1202	1206	rVB	186433	164491	16.82%	1.280%
17	9.572	1225	1230	1234	rBV2	8566	12979	1.33%	0.101%
18	9.648	1240	1243	1245	rBV	11482	10895	1.11%	0.085%
19	9.695	1245	1251	1257	rVB	248142	220997	22.60%	1.720%
20	9.854	1272	1278	1281	rBV	33000	32490	3.32%	0.253%
21	9.895	1281	1285	1288	rVB2	20073	18259	1.87%	0.142%
22	9.989	1298	1301	1305	rBV	310380	270701	27.68%	2.106%
23	10.025	1305	1307	1310	rVB	30427	22060	2.26%	0.172%
24	10.195	1331	1336	1339	rBV2	22559	27514	2.81%	0.214%
25	10.301	1352	1354	1357	rBV	12764	12604	1.29%	0.098%
26	10.395	1366	1370	1372	rBV2	30703	26589	2.72%	0.207%
27	10.542	1391	1395	1401	rVB3	29962	36444	3.73%	0.284%
28	10.613	1401	1407	1411	rBV4	12340	20940	2.14%	0.163%
29	10.695	1419	1421	1425	rVB2	11605	10713	1.10%	0.083%
30	10.789	1433	1437	1443	rBV	599322	583413	59.65%	4.539%
31	10.878	1448	1452	1455	rBV3	26890	38996	3.99%	0.303%
32	11.095	1482	1489	1490	rBV5	11314	15352	1.57%	0.119%
33	11.219	1505	1510	1512	rBV4	7760	10700	1.09%	0.083%
34	11.295	1519	1523	1525	rBV	20414	18670	1.91%	0.145%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.319	1525	1527	1530	rBV3	20972	20948	2.14%	0.163%
36	11.383	1536	1538	1541	rVB	18069	15388	1.57%	0.120%
37	11.489	1552	1556	1558	rBV	342972	301678	30.85%	2.347%
38	11.513	1558	1560	1563	rVV	300669	226339	23.14%	1.761%
39	11.566	1566	1569	1572	rVV	88917	75566	7.73%	0.588%
40	11.601	1572	1575	1578	rVB2	10389	13461	1.38%	0.105%
41	11.725	1592	1596	1598	rBV2	29469	30172	3.08%	0.235%
42	11.748	1598	1600	1603	rVB	27048	20652	2.11%	0.161%
43	11.819	1610	1612	1616	rVB2	20564	22979	2.35%	0.179%
44	11.907	1624	1627	1631	rVB4	11085	13956	1.43%	0.109%
45	11.989	1638	1641	1644	rBV	52323	55613	5.69%	0.433%
46	12.019	1644	1646	1649	rVV	68449	58441	5.98%	0.455%
47	12.066	1652	1654	1657	rVB	28711	26004	2.66%	0.202%
48	12.107	1657	1661	1663	rBV2	87703	108737	11.12%	0.846%
49	12.125	1663	1664	1667	rVB	47800	35769	3.66%	0.278%
50	12.154	1667	1669	1673	rBV2	21511	23725	2.43%	0.185%
51	12.225	1678	1681	1684	rVV	19543	18221	1.86%	0.142%
52	12.283	1688	1691	1693	rVV	54409	49153	5.03%	0.382%
53	12.325	1695	1698	1701	rVB2	34765	36980	3.78%	0.288%
54	12.436	1711	1717	1720	rBV2	25120	39737	4.06%	0.309%
55	12.466	1720	1722	1724	rBV	34834	24208	2.48%	0.188%
56	12.489	1724	1726	1729	rVB2	24338	20044	2.05%	0.156%
57	12.542	1732	1735	1738	rBV	89210	90281	9.23%	0.702%
58	12.642	1747	1752	1760	rBV3	49104	96492	9.87%	0.751%
59	12.713	1760	1764	1767	rBV	541253	469080	47.96%	3.650%
60	12.742	1767	1769	1772	rVV	14567	15699	1.61%	0.122%
61	12.807	1778	1780	1783	rBV	23406	20823	2.13%	0.162%
62	12.860	1786	1789	1791	rVV4	34922	38933	3.98%	0.303%
63	12.883	1791	1793	1796	rVB3	24018	18794	1.92%	0.146%
64	12.924	1796	1800	1801	rBV2	100331	115188	11.78%	0.896%
65	12.948	1801	1804	1808	rVV	488282	481739	49.26%	3.748%
66	12.989	1808	1811	1815	rVB	47660	50495	5.16%	0.393%
67	13.077	1821	1826	1828	rBV	988932	978045	100.00%	7.610%
68	13.107	1828	1831	1835	rVB2	33669	42735	4.37%	0.333%
69	13.166	1835	1841	1844	rBV3	47685	98039	10.02%	0.763%
70	13.272	1852	1859	1863	rBV	84197	140033	14.32%	1.090%
71	13.336	1868	1870	1872	rVB2	41365	30389	3.11%	0.236%

LSC Area Percent Report

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Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

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
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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.377	1875	1877	1879	rVB	48869	34707	3.55%	0.270%
73	13.472	1890	1893	1895	rBV	52798	48084	4.92%	0.374%
74	13.501	1896	1898	1901	rVB2	49630	43581	4.46%	0.339%
75	13.783	1944	1946	1950	rBV	45226	44241	4.52%	0.344%
76	13.895	1963	1965	1967	rBV	44996	35495	3.63%	0.276%
77	13.919	1967	1969	1971	rVB	41788	30711	3.14%	0.239%
78	13.948	1972	1974	1980	rBV3	84855	105549	10.79%	0.821%
79	13.995	1980	1982	1986	rVB	36981	32450	3.32%	0.252%
80	14.148	2003	2008	2011	rBV2	325977	512792	52.43%	3.990%
81	14.171	2011	2012	2016	rVB	194688	153469	15.69%	1.194%
82	14.254	2024	2026	2030	rBV2	44211	52692	5.39%	0.410%
83	15.236	2190	2193	2201	rVB	157293	306605	31.35%	2.386%
84	15.565	2246	2249	2252	rVB	69710	76379	7.81%	0.594%
85	15.630	2257	2260	2267	rVB	111429	147887	15.12%	1.151%
86	15.695	2268	2271	2275	rBV	112571	126698	12.95%	0.986%

Sum of corrected areas: 12852022

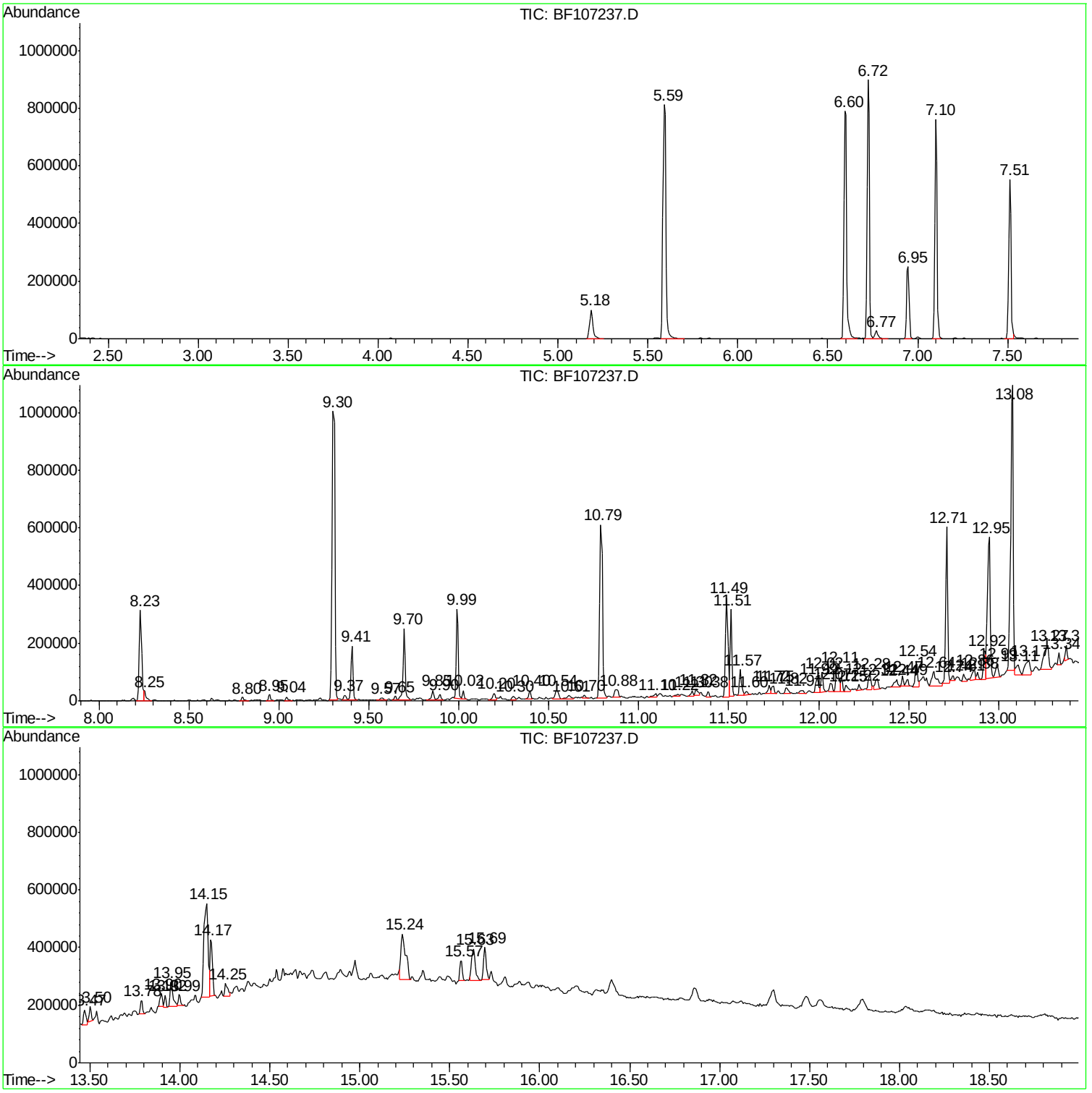
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

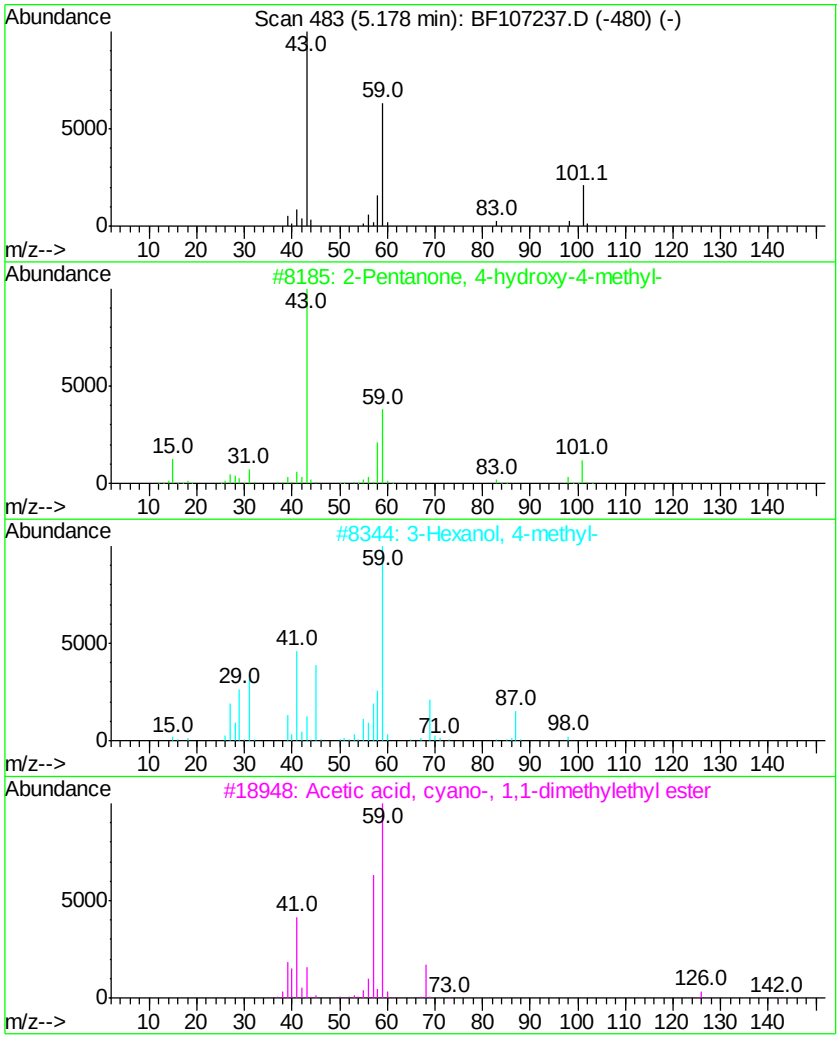
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

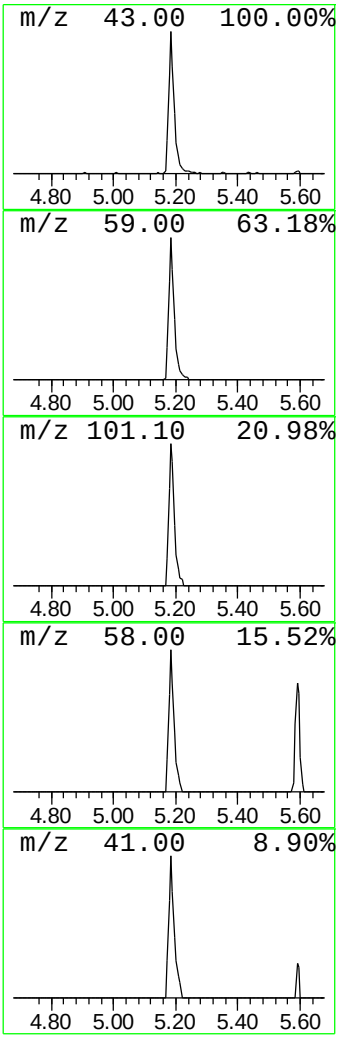
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	10.99 ng	124974	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

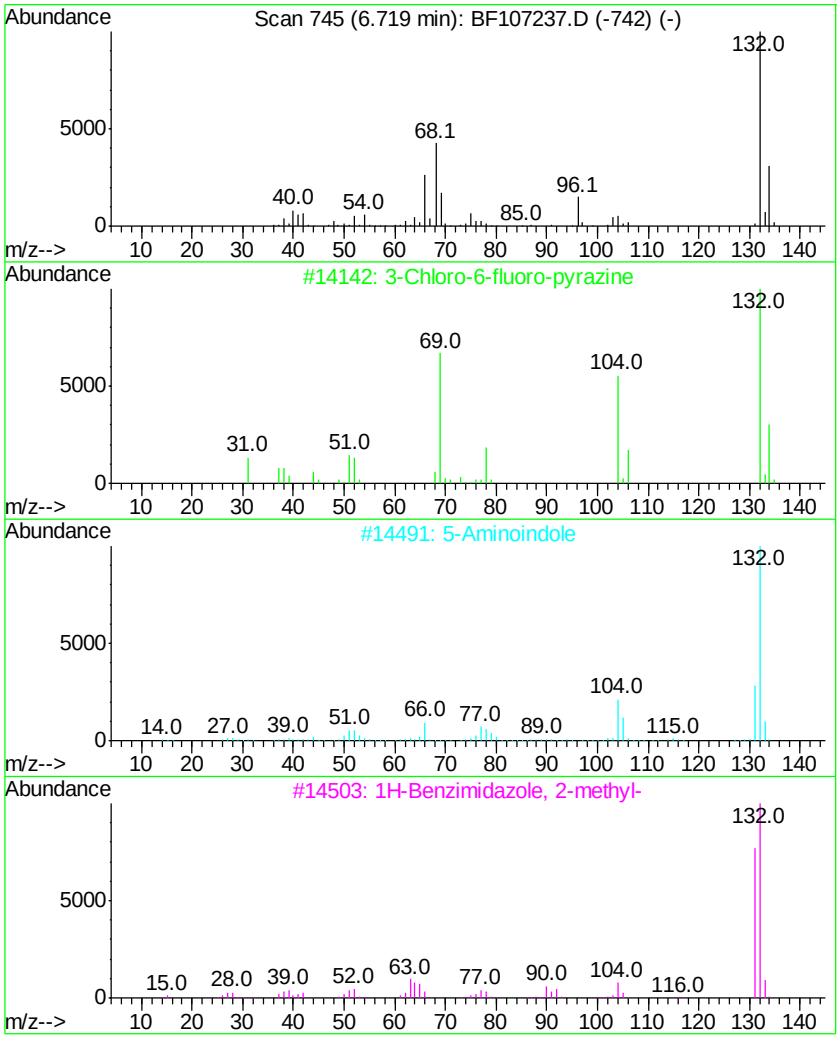
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

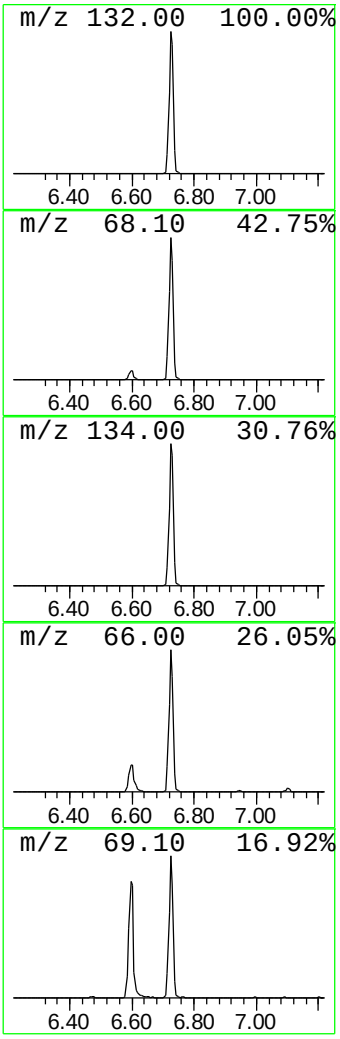
****

Peak Number 2 unknown6.72 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	77.35 ng	879417	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

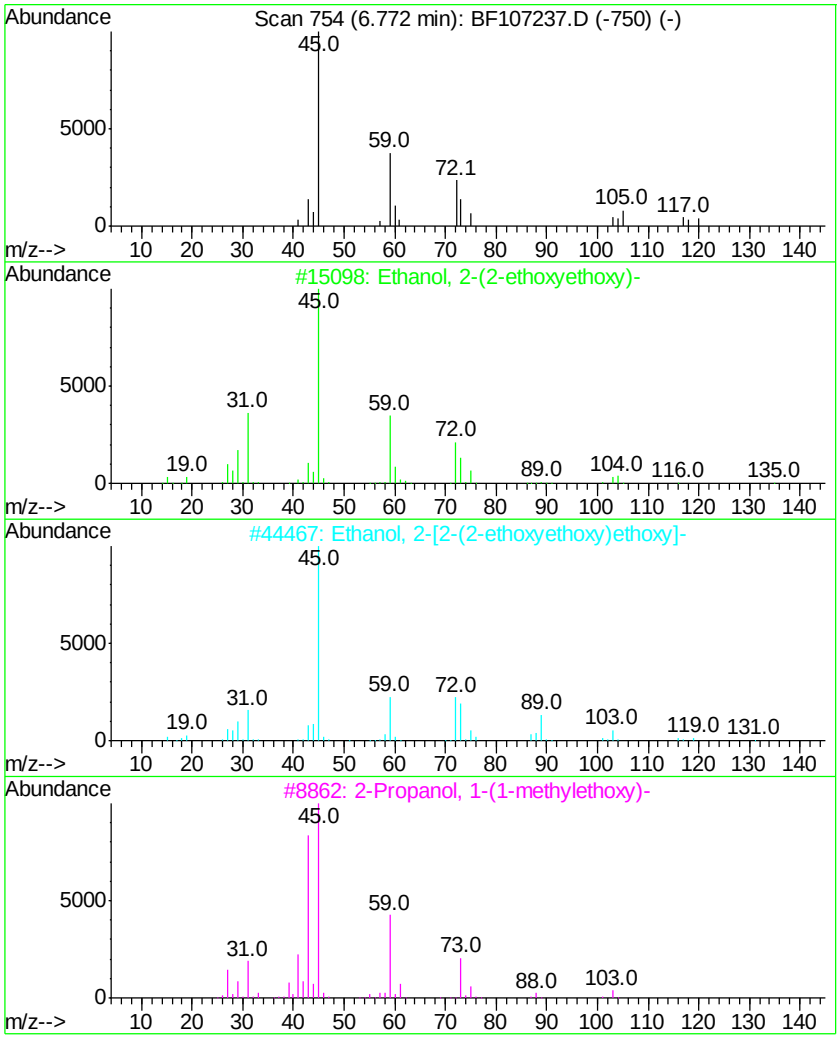
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

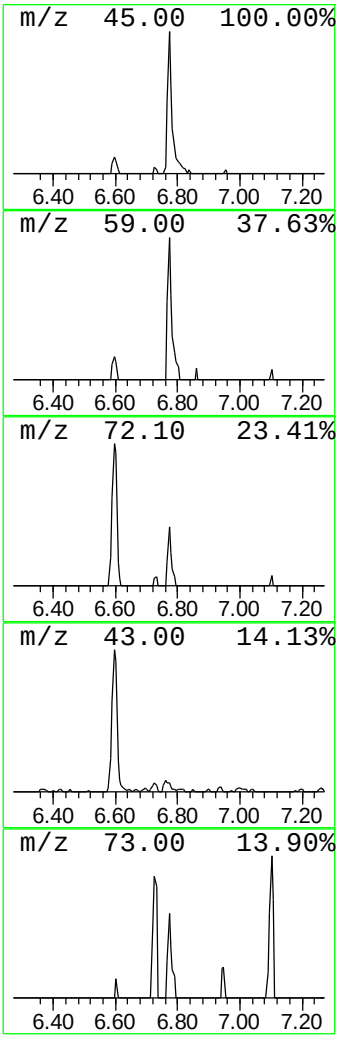
****

Peak Number 3 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.77	3.26 ng	37077	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethanol, 2-[2-(2-ethoxyethoxy)et...	178	C8H18O4	000112-50-5	38
3	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	36
4	Acetic acid, hydroxy-, ethyl ester	104	C4H8O3	000623-50-7	9
5	Glycine, N-acetyl-	117	C4H7NO3	000543-24-8	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

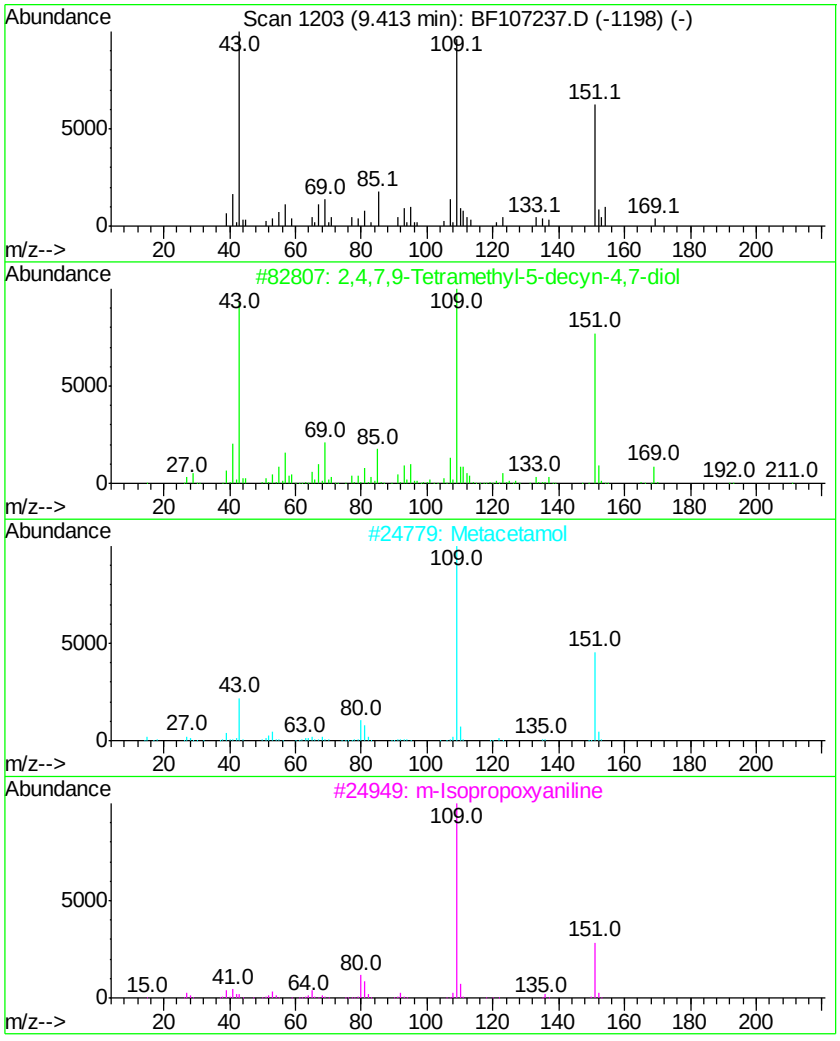
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

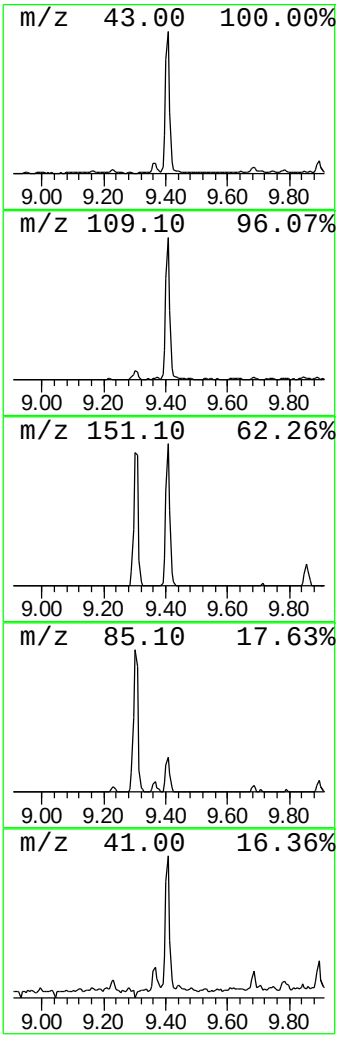
****

Peak Number 5 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.41	12.15 ng	164491	Acenaphthene-d10	9.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	90
2	Metacetamol	151	C8H9NO2	000621-42-1	59
3	m-Isopropoxyaniline	151	C9H13NO	041406-00-2	59
4	2-Cyclopentene-1-carboxylic acid...	154	C9H14O2	006894-69-5	46
5	Camphorsulfonic acid	232	C10H16O4S	003144-16-9	45





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

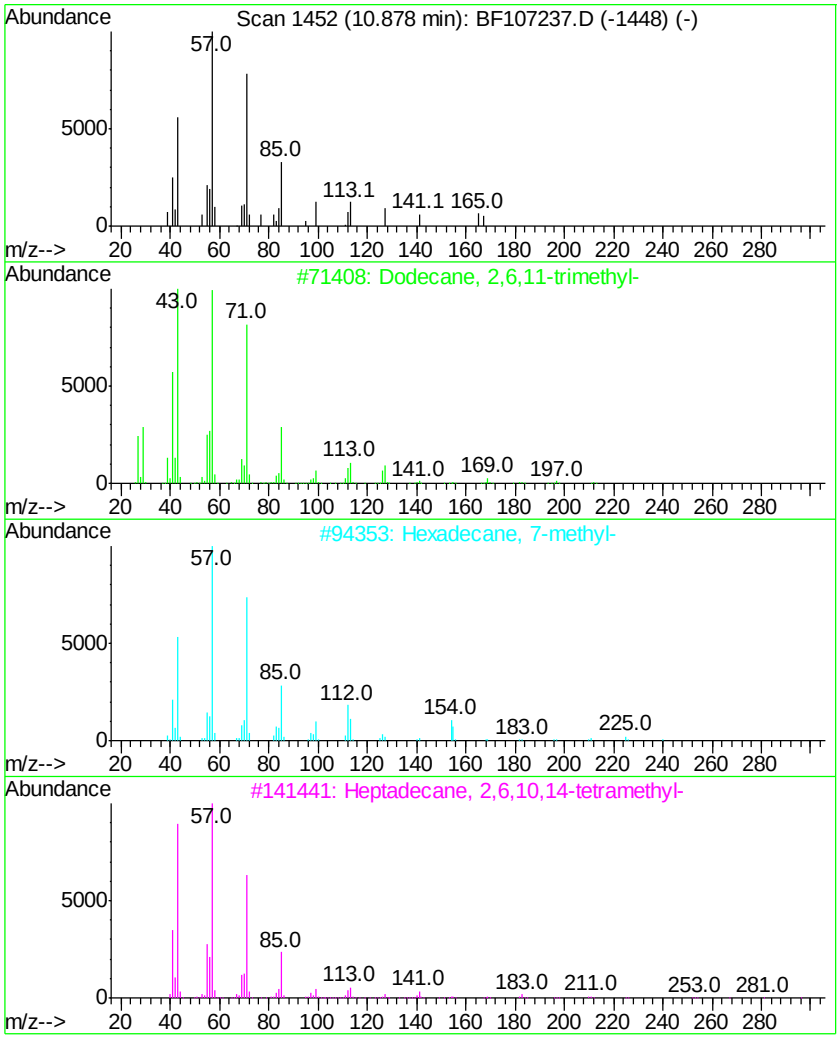
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

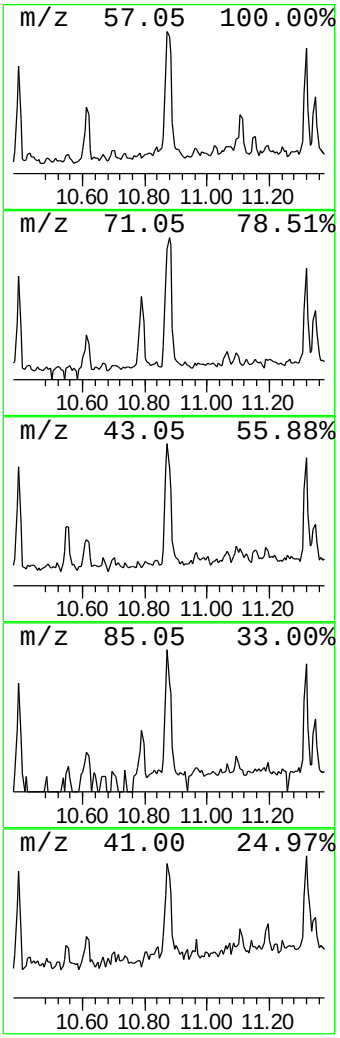
****

Peak Number 7 Dodecane, 2,6,11-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	2.59 ng	38996	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	86
2	Hexadecane, 7-methyl-	240	C17H36	026730-20-1	72
3	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	72
4	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	72
5	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

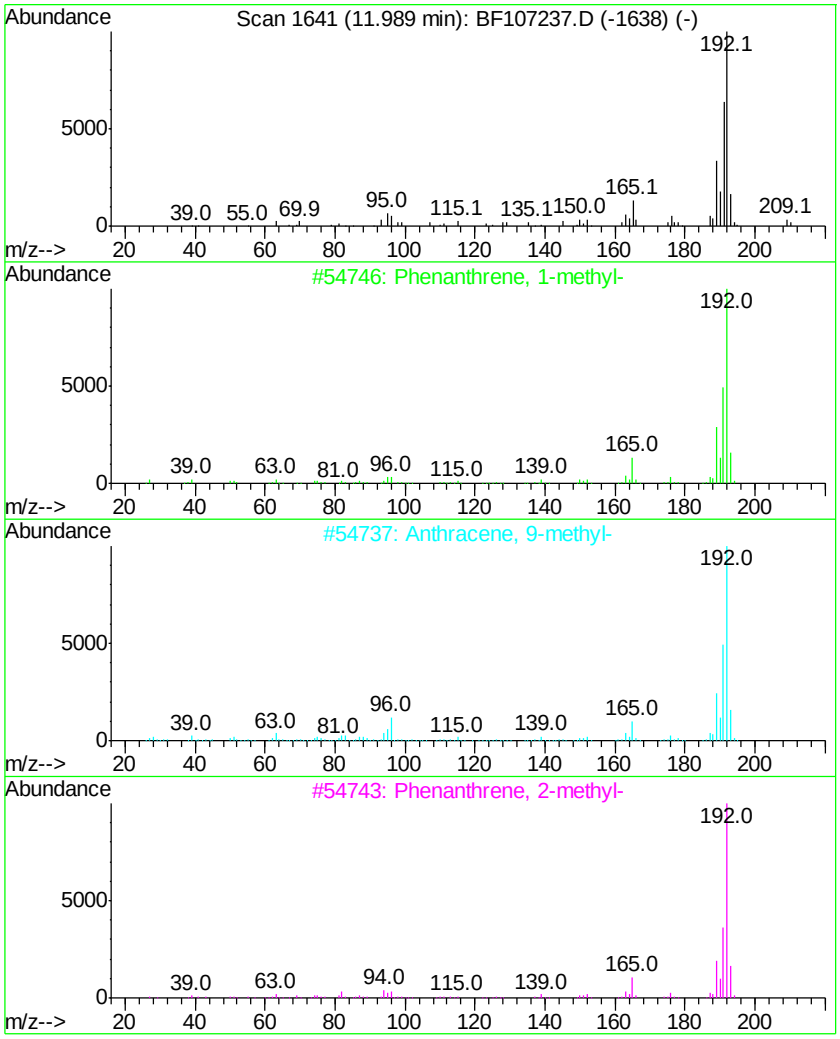
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

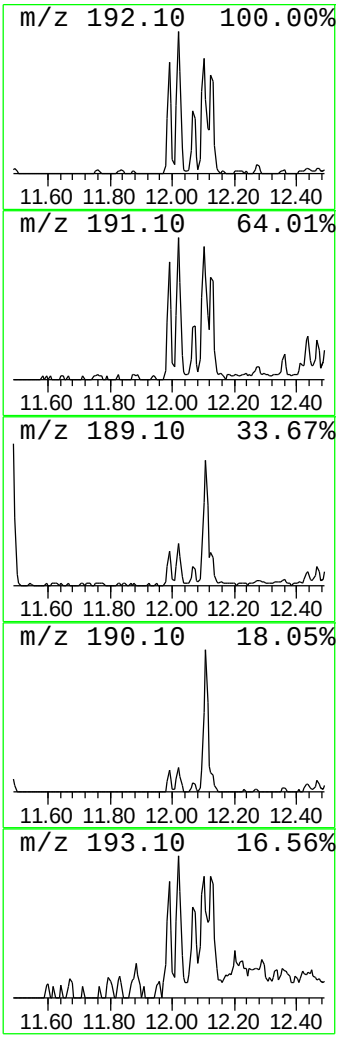
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	3.69 ng	55613	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Library Search Compound Report

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Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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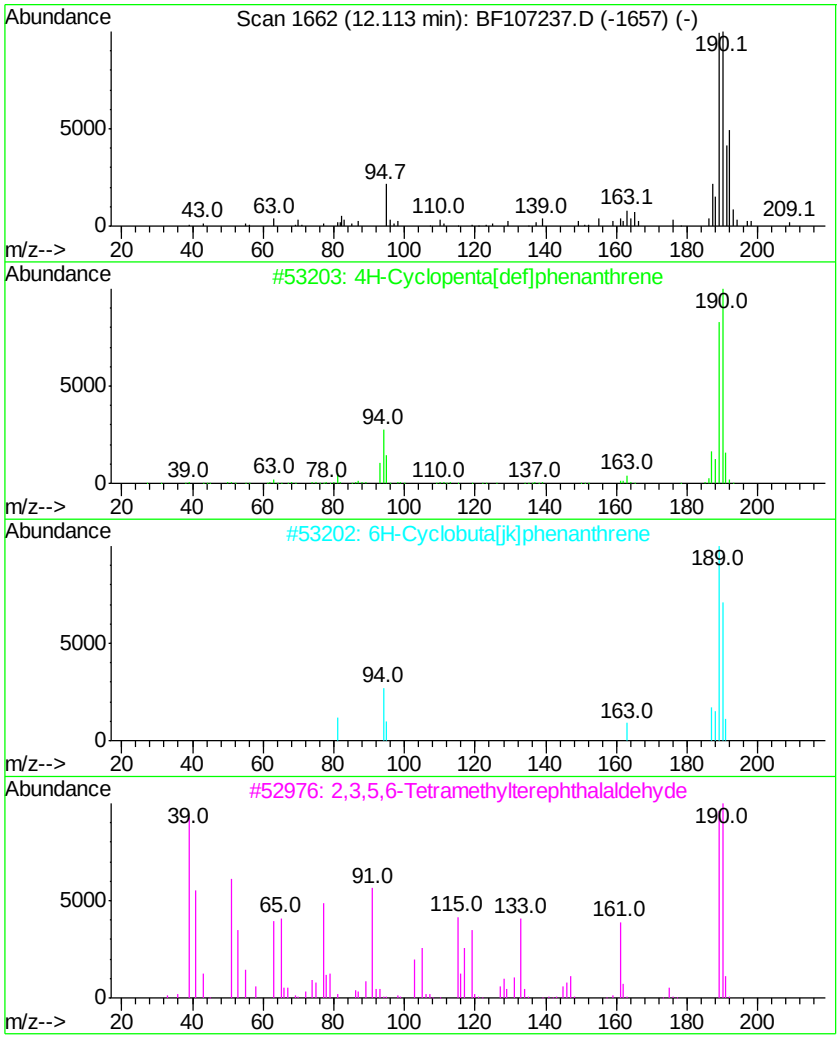
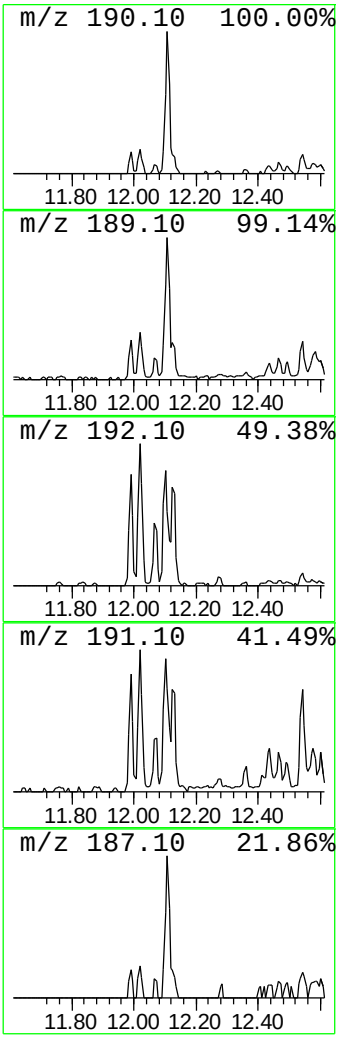
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	7.21 ng	108737	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	46
4	Carbonic acid, butyl 2-formyl-4,...	290	C12H12Cl2O4	1000331-42-2	25
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	14





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070918\
Data File : BF107237.D
Acq On : 9 Jul 2018 19:01
Operator : JU/SJ
Sample : J3879-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Phenanthrene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.37 ng	35769	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81