LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

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-BF080818.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	5.619	553	558	565	rBV	391205	356977	22.84%	1.439%
2	6.613	723	727	732	rBV	438824	379369	24.28%	1.529%
3	6.766	750	753	759	rVB	434681	409208	26.19%	1.649%
4	6.825	759	763	767	rBV	86890	77791	4.98%	0.314%
5	7.001	789	793	797	rBV	1117786	1001950	64.12%	4.038%
6	7.160	813	820	825	rBV	347668	346736	22.19%	1.398%
7	7.266	832	838	840	rBV4	56218	66603	4.26%	0.268%
8	7.319	844	847	853	rVB2	41296	64548	4.13%	0.260%
9	7.531	878	883	885	rBV3	67566	88236	5.65%	0.356%
10	7.560	885	888	890	rVV	286092	274543	17.57%	1.107%
11	7.584	890	892	896	rVB	202583	166122	10.63%	0.670%
12	7.642	896	902	905	rVB4	54783	77347	4.95%	0.312%
13	7.689	905	910	915	rBV5	38639	73470	4.70%	0.296%
14	8.019	963	966	969	rBV	126009	109859	7.03%	0.443%
15	8.095	975	979	982	rVB2	65599	72113	4.61%	0.291%
16	8.148	986	988	991	rVB2	70349	61154	3.91%	0.246%
17	8.248	1002	1005	1008	rVV	303889	280196	17.93%	1.129%
18	8.289	1008	1012	1014	rVV	1502883	1310165	83.84%	5.281%
19	8.307	1014	1015	1017	rVV	184330	130681	8.36%	0.527%
20	8.331	1017	1019	1022	rVB	214164	169100	10.82%	0.682%
21	8.366	1022	1025	1031	rVB3	78345	99015	6.34%	0.399%
22	8.483	1042	1045	1050	rVB2	94346	91700	5.87%	0.370%
23	8.566	1056	1059	1064	rVB5	181513	204500	13.09%	0.824%
24	8.613	1064	1067	1069	rBV3	72587	80518	5.15%	0.325%
25	8.642	1070	1072	1075	rVV	72081	60067	3.84%	0.242%
26	8.689	1077	1080	1082	rVB	284581	208110	13.32%	0.839%
27	8.719	1082	1085	1088	rVB2	67646	59943	3.84%	0.242%
28	8.789	1094	1097	1099	rBV2	104694	96765	6.19%	0.390%
29	8.860	1104	1109	1113	rBV	457288	398026	25.47%	1.604%
30	8.948	1122	1124	1127	rVB2	102348	113372	7.26%	0.457%
31	9.001	1130	1133	1135	rVB	100471	75477	4.83%	0.304%
32	9.101	1148	1150	1155	rVV2	176541	166838	10.68%	0.672%
33	9.142	1155	1157	1159	rVV	112041	93775	6.00%	0.378%
34	9.189	1161	1165	1168	rVB3	107819	127344	8.15%	0.513%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

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-BF080818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.225	1168	1171	1174	rBV	154437	138822	8.88%	0.560%
36	9.266	1174	1178	1180	rVV2	98785	95939	6.14%	0.387%
37	9.289	1180	1182	1185	rVV	287636	221788	14.19%	0.894%
38	9.360	1190	1194	1198	rBV	529092	473258	30.29%	1.908%
39	9.425	1202	1205	1209	rVV	465456	418115	26.76%	1.685%
40	9.466	1209	1212	1214	rVV3	87631	88374	5.66%	0.356%
41	9.507	1217	1219	1222	rVV2	69848	62652	4.01%	0.253%
42	9.619	1235	1238	1244	rBV2	70189	127378	8.15%	0.513%
43	9.683	1244	1249	1250	rBV3	71184	88607	5.67%	0.357%
44	9.701	1250	1252	1255	rVB	119331	94776	6.07%	0.382%
45	9.748	1255	1260	1262	rBV2	275628	292357	18.71%	1.178%
46	9.807	1268	1270	1274	rBV3	79268	97700	6.25%	0.394%
47	9.907	1284	1287	1290	rBV	95658	89850	5.75%	0.362%
48	9.954	1293	1295	1300	rVV	305542	288091	18.44%	1.161%
49	10.048	1308	1311	1314	rVV2	1452977	1287360	82.38%	5.189%
50	10.083	1314	1317	1320	rVV	214396	195471	12.51%	0.788%
51	10.248	1342	1345	1348	rVV2	132063	140884	9.02%	0.568%
52	10.283	1348	1351	1355	rVB4	69043	82687	5.29%	0.333%
53	10.360	1361	1364	1367	rBV2	54705	67639	4.33%	0.273%
54	10.460	1375	1381	1384	rBV2	162545	168452	10.78%	0.679%
55	10.595	1401	1404	1411	rVV	250354	260182	16.65%	1.049%
56	10.677	1414	1418	1421	rVV3	90879	123883	7.93%	0.499%
57	10.836	1442	1445	1449	rBV	242246	237349	15.19%	0.957%
58	10.942	1459	1463	1472	rVB3	103223	180673	11.56%	0.728%
59	11.148	1491	1498	1501	rBV2	61452	96976	6.21%	0.391%
60	11.383	1535	1538	1540	rVV	78162	67507	4.32%	0.272%
61	11.442	1545	1548	1554	rVB	75734	72311	4.63%	0.291%
62	11.542	1561	1565	1567	rBV	1159699	1099095	70.33%	4.430%
63	11.566	1567	1569	1573	rVV	1033057	919873	58.87%	3.708%
64	11.619	1575	1578	1581	rVV	318711	259901	16.63%	1.048%
65	11.771	1600	1604	1608	rBV	53942	63273	4.05%	0.255%
66	12.042	1647	1650	1653	rBV	142416	141290	9.04%	0.569%
67	12.071	1653	1655	1659	rVB	184727	167712	10.73%	0.676%
68	12.124	1659	1664	1666	rBV	73555	75238	4.81%	0.303%
69	12.160	1666	1670	1672	rVV2	247733	266709	17.07%	1.075%
70	12.183	1672	1674	1677	rVB	103572	86569	5.54%	0.349%
71	12.342	1697	1701	1703	rBV	93506	87495	5.60%	0.353%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

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-BF080818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.595	1740	1744	1748	rBV2	102395	150448	9.63%	0.606%
73	12.636	1748	1751	1753	rVV2	50689	69367	4.44%	0.280%
74	12.683	1756	1759	1768	rVB4	55336	93920	6.01%	0.379%
75	12.766	1769	1773	1776	rBV	1147856	1021643	65.38%	4.118%
76	12.918	1796	1799	1805	rVB2	53107	70031	4.48%	0.282%
77	12.977	1805	1809	1810	rBV2	215154	239577	15.33%	0.966%
78	12.995	1810	1812	1817	rVB	1039004	903074	57.79%	3.640%
79	13.042	1817	1820	1824	rVB2	65749	65753	4.21%	0.265%
80	13.124	1824	1834	1837	rBV2	406970	434390	27.80%	1.751%
81	13.207	1844	1848	1852	rBV3	76925	129682	8.30%	0.523%
82	13.318	1864	1867	1873	rVV2	187957	201363	12.89%	0.812%
83	13.389	1873	1879	1881	rVV	164045	164236	10.51%	0.662%
84	13.424	1881	1885	1888	rVV2	110934	132735	8.49%	0.535%
85	13.554	1904	1907	1909	rVV	70389	66676	4.27%	0.269%
86	13.807	1946	1950	1952	rBV3	61531	73887	4.73%	0.298%
87	13.948	1969	1974	1976	rBV3	76601	96309	6.16%	0.388%
88	14.001	1980	1983	1986	rVV2	65754	89399	5.72%	0.360%
89	14.195	2011	2016	2019	rBV2	1226310	1562662	100.00%	6.298%
90	14.224	2019	2021	2027	rVB	490013	413100	26.44%	1.665%
91	14.307	2032	2035	2037	rBV	107568	112315	7.19%	0.453%
92	14.583	2079	2082	2084	rVB2	80468	69499	4.45%	0.280%
93	14.612	2084	2087	2093	rVB3	79107	111384	7.13%	0.449%
94	14.736	2106	2108	2111	rVB	82728	72011	4.61%	0.290%
95	15.283	2197	2201	2205	rBV	321734	534830	34.23%	2.156%
96	15.401	2218	2221	2225	rBV	77965	95400	6.10%	0.385%
97	15.618	2254	2258	2264	rVB	186197	246555	15.78%	0.994%
98	15.683	2265	2269	2274	rVB	305757	385412	24.66%	1.553%
99	15.754	2275	2281	2285	rBV	640165	902742	57.77%	3.639%
100	17.359	2550	2554	2560	rBV2	93916	183914	11.77%	0.741%

Sum of corrected areas: 24810168

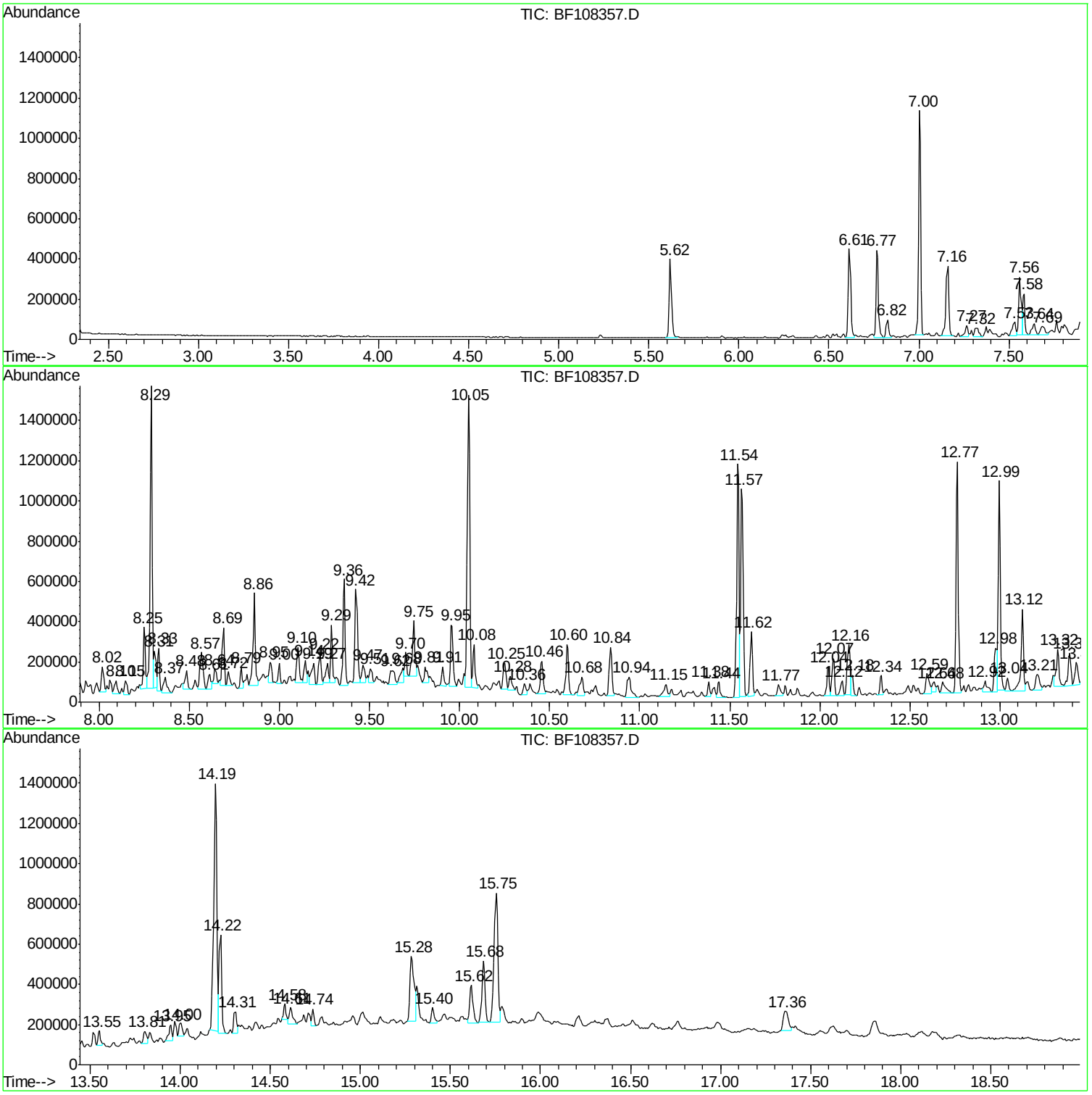
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.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\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

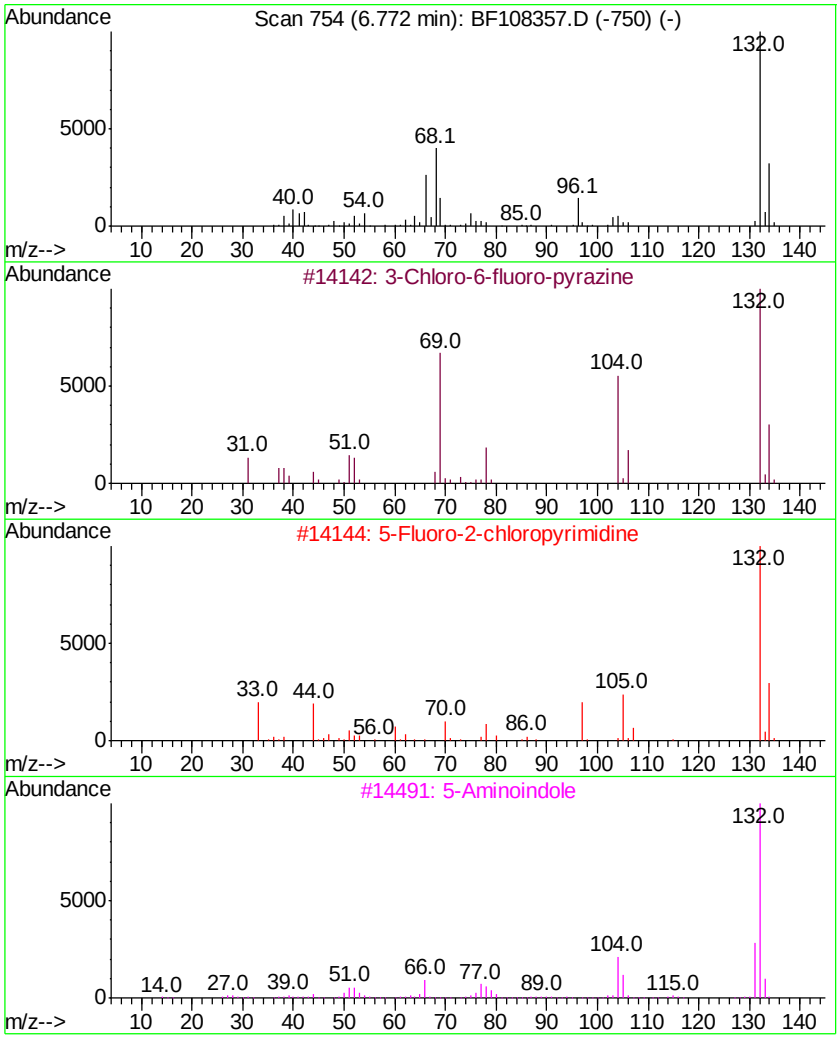
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

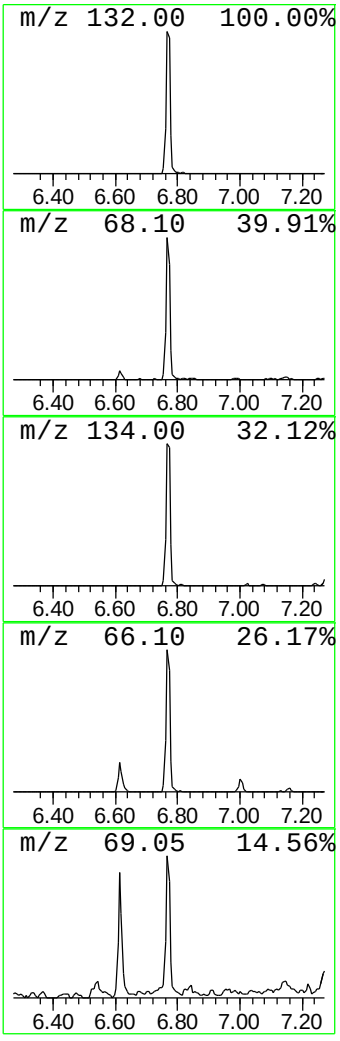
****

Peak Number 1 unknown6.77 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.77	8.17 ng	409208	1,4-Dichlorobenzene-d4	7.00

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	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	10
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	Xenon	132	Xe	007440-63-3	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

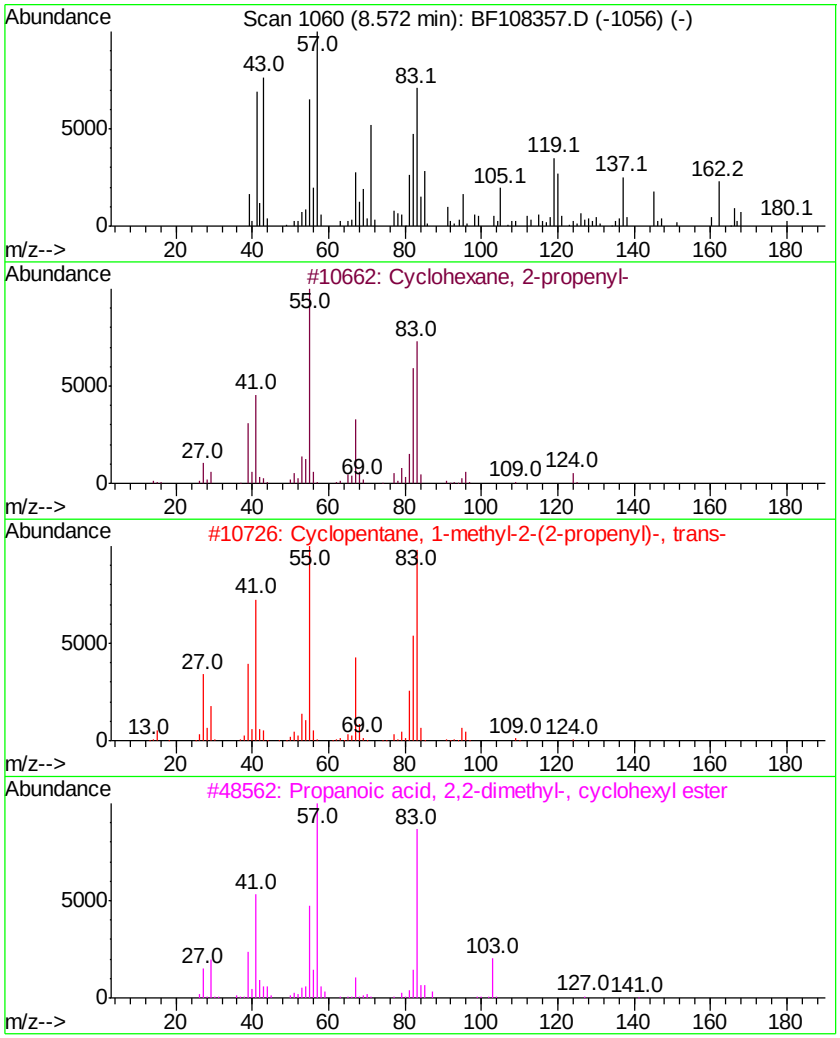
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

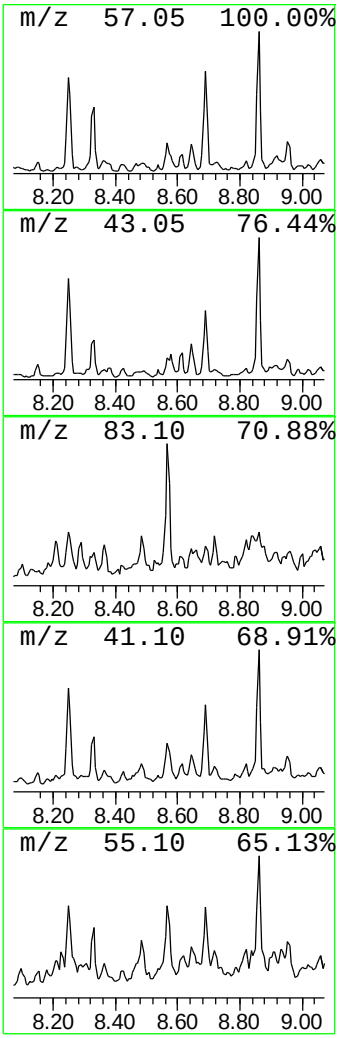
****

Peak Number 3 unknown8.57 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.57	3.12 ng	204500	Naphthalene-d8	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	38
2	Cyclopentane, 1-methyl-2-(2-prop...	124	C9H16	050746-53-7	35
3	Propanoic acid, 2,2-dimethyl-, c...	184	C11H20O2	029878-49-7	27
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	25
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	22





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

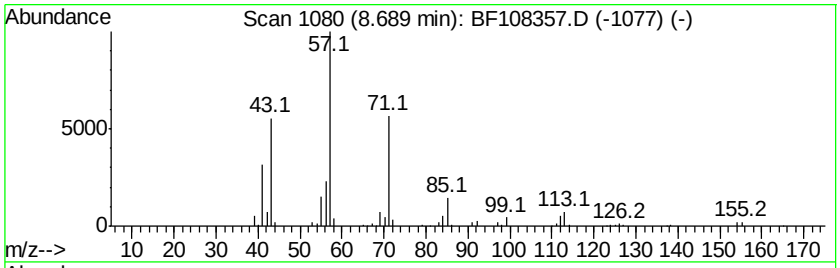
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

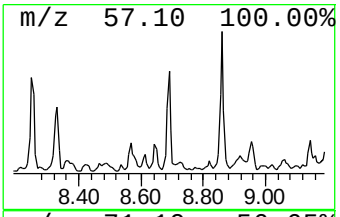
****

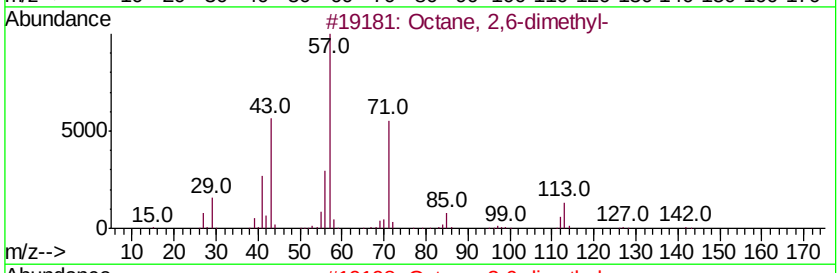
Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 11

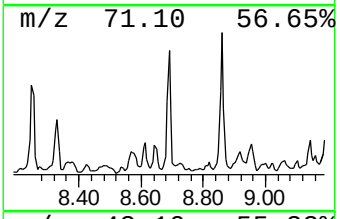
R.T.	EstConc	Area	Relative to ISTD	R.T.
8.69	3.18 ng	208110	Naphthalene-d8	8.29

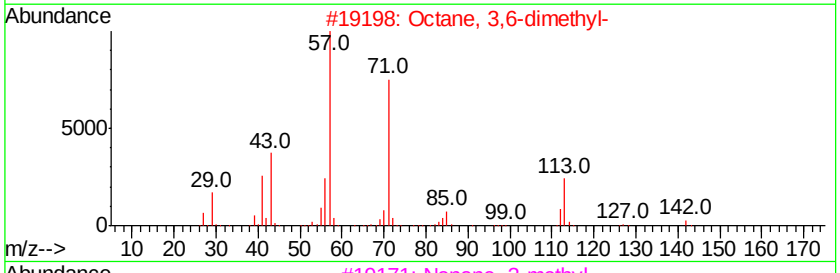
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72
2	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	72
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	72
4	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	64
5	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	59

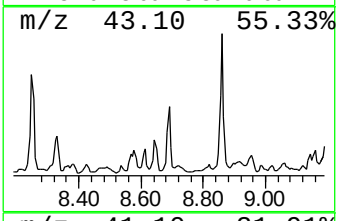


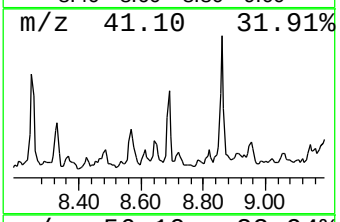


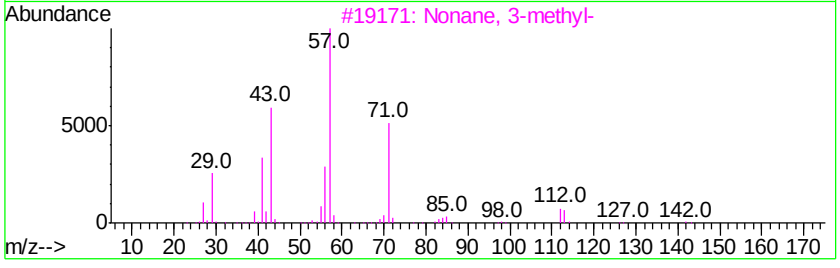


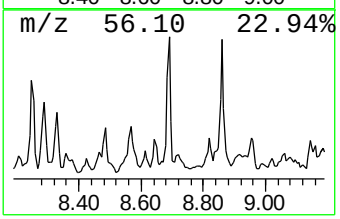












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

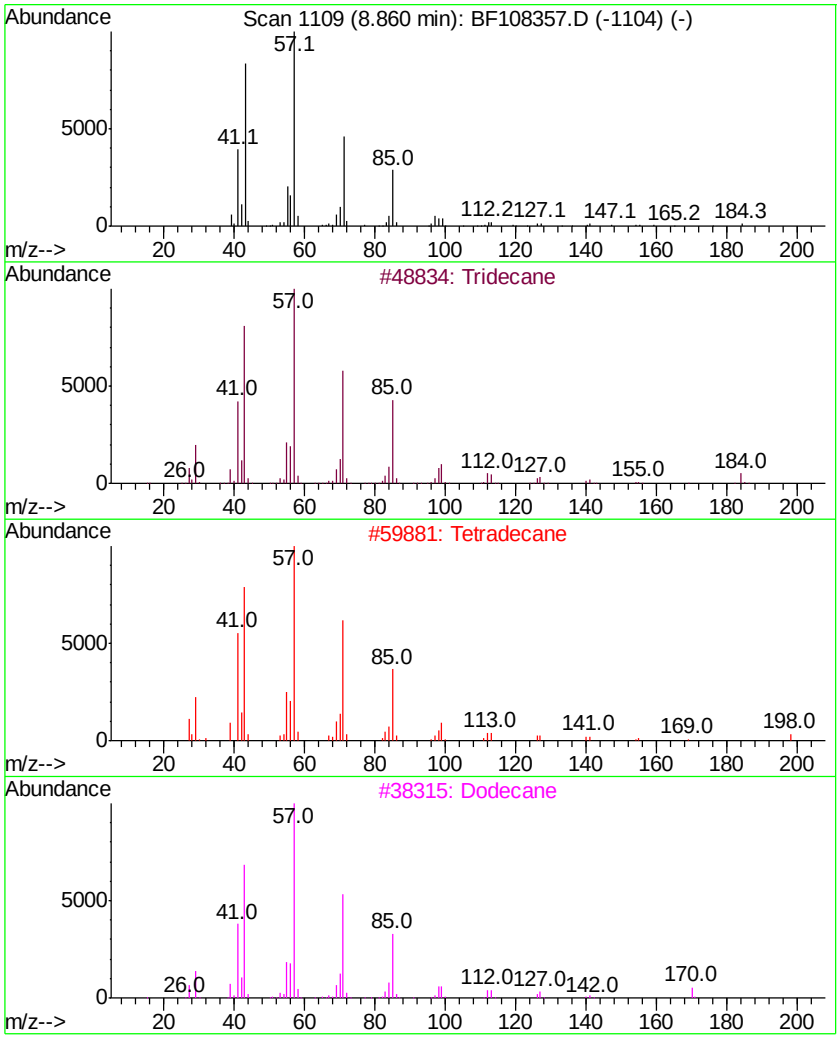
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

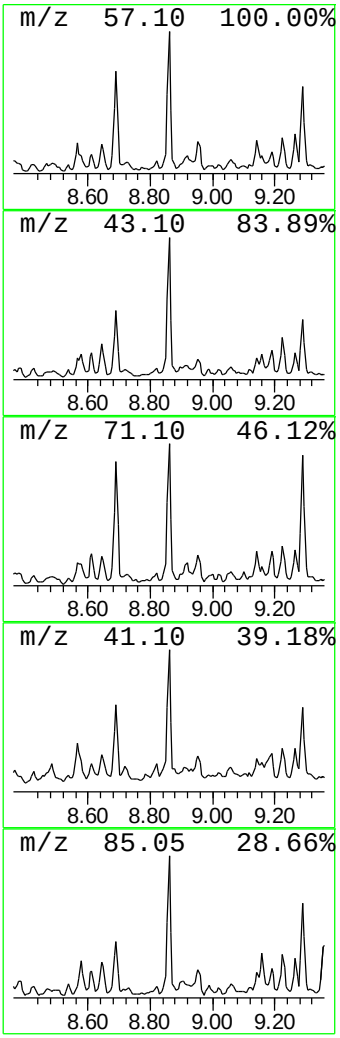
****

Peak Number 5 Tridecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.86	6.08 ng	398026	Naphthalene-d8	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	94
2	Tetradecane	198	C14H30	000629-59-4	86
3	Dodecane	170	C12H26	000112-40-3	86
4	Hexadecane	226	C16H34	000544-76-3	86
5	Pentadecane	212	C15H32	000629-62-9	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

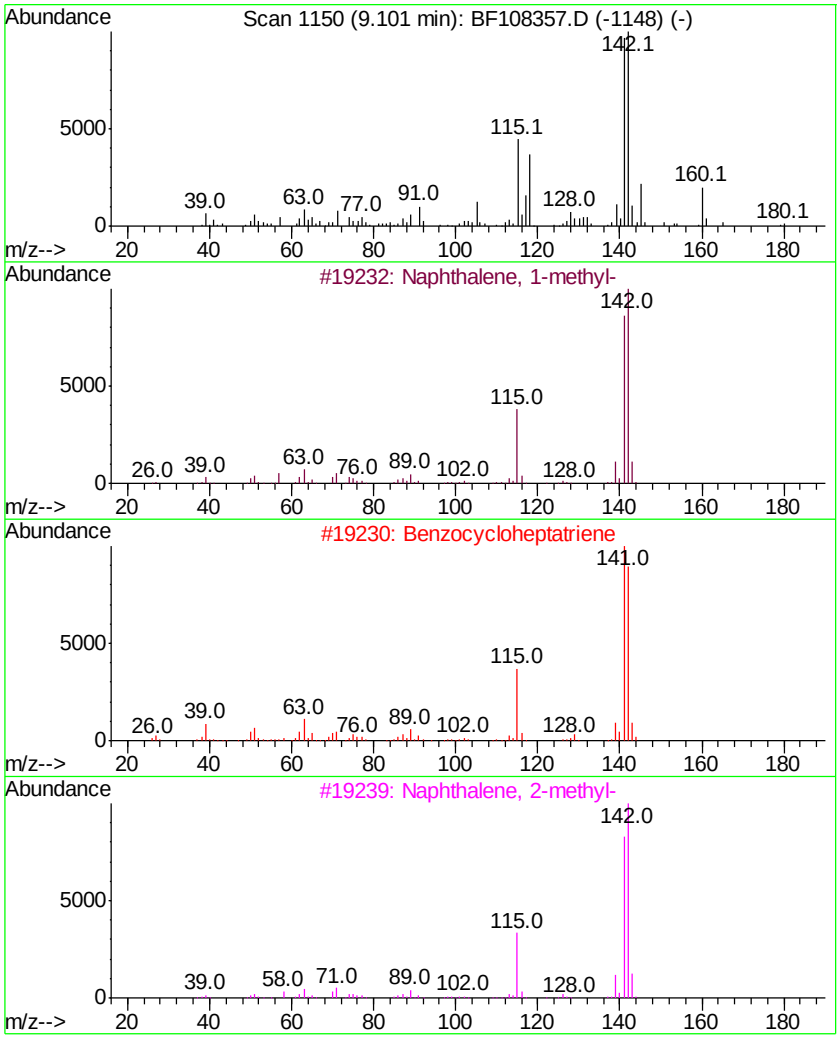
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

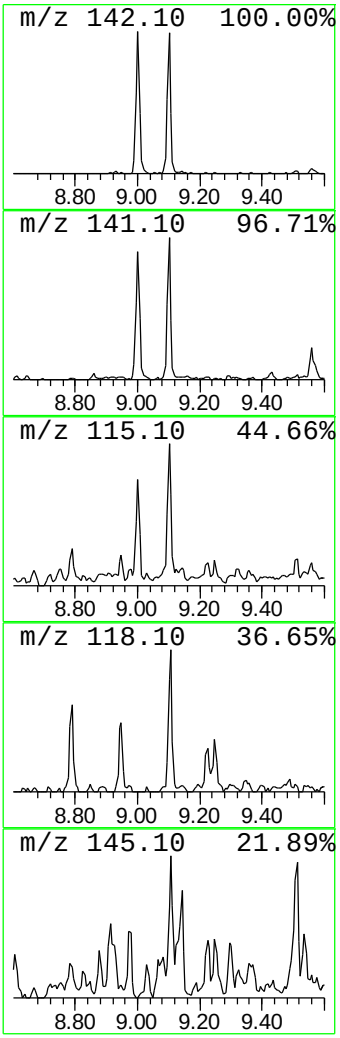
****

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	2.55 ng	166838	Naphthalene-d8	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Benzocycloheptatriene	142	C11H10	000264-09-5	92
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	76
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

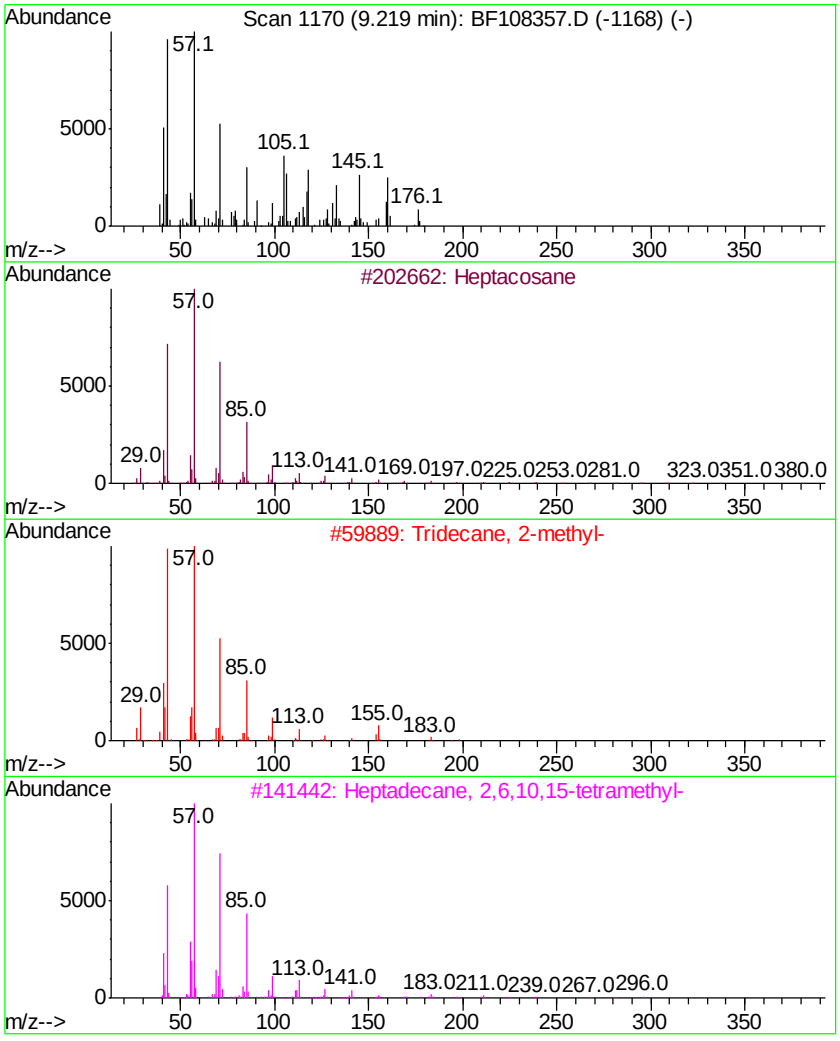
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

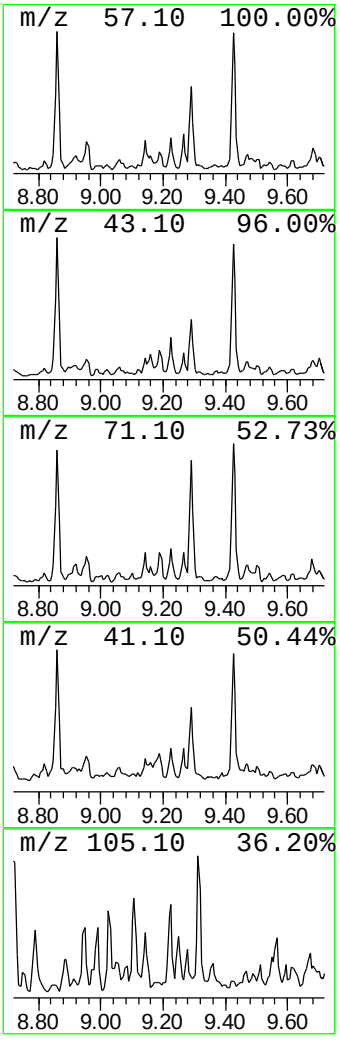
****

Peak Number 7 unknown9.22 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.22	2.16 ng	138822	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	30
2	Tridecane, 2-methyl-	198	C14H30	001560-96-9	30
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	30
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	27
5	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	27





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

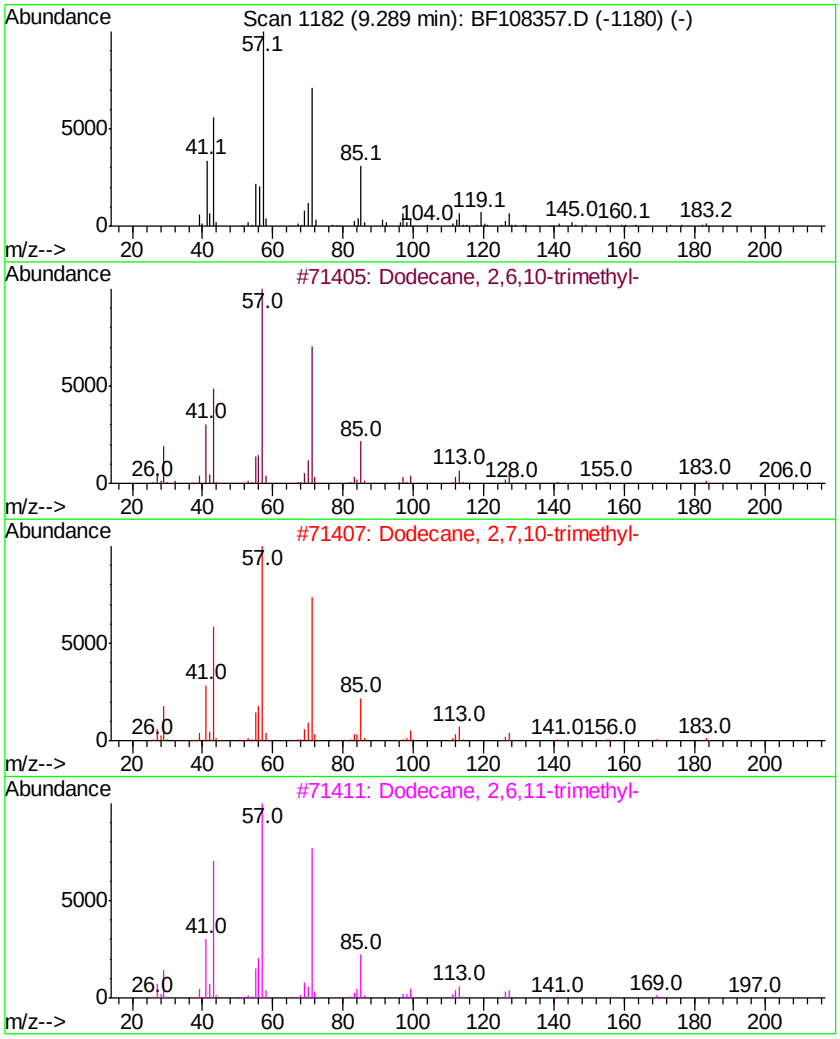
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

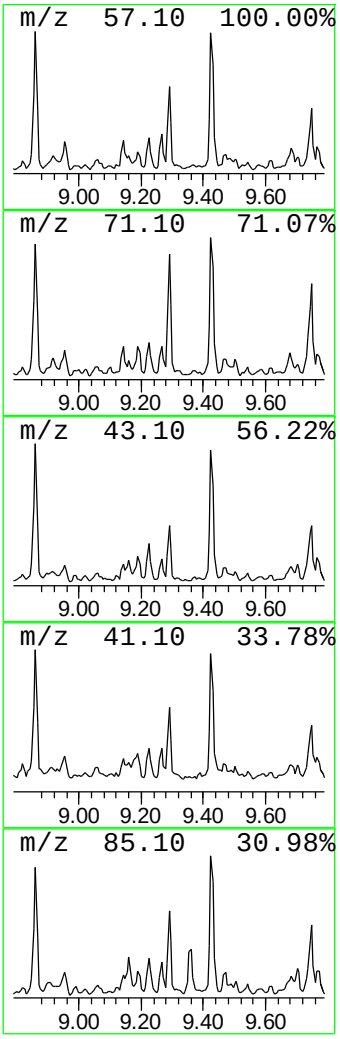
****

Peak Number 8 Dodecane, 2,6,10-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.29	3.45 ng	221788	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	90
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	83
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	72
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	64
5	Undecane, 3-methyl-	170	C12H26	001002-43-3	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

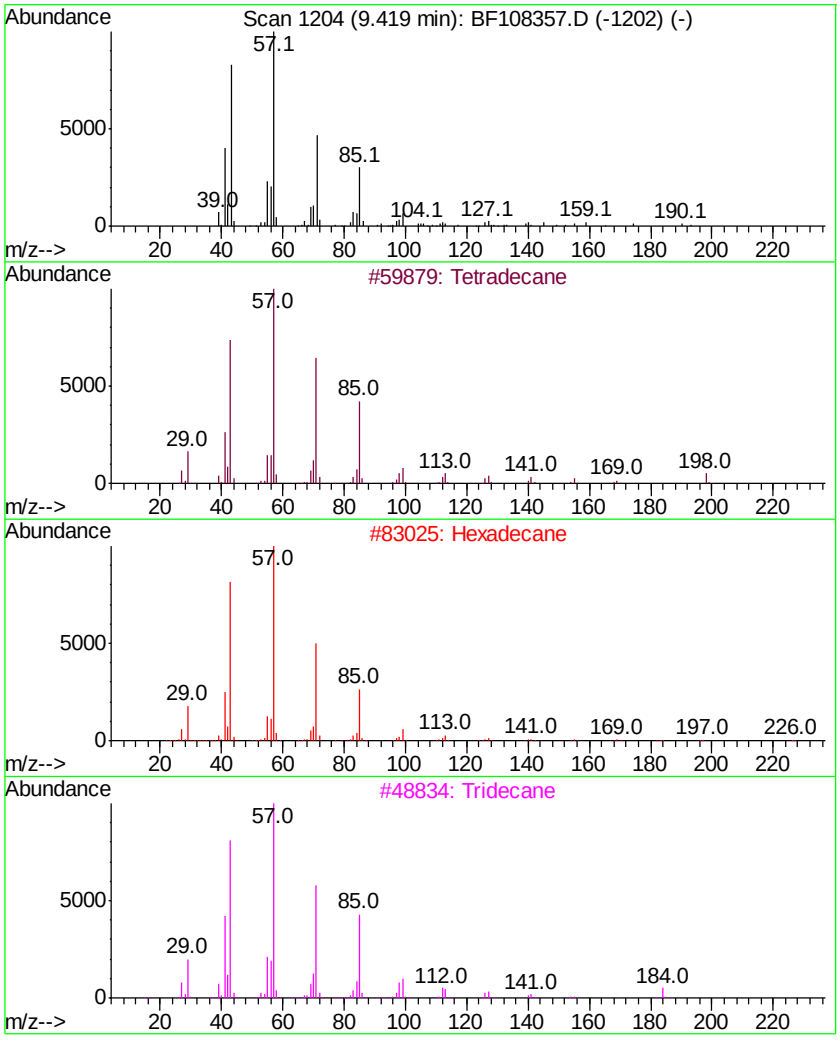
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

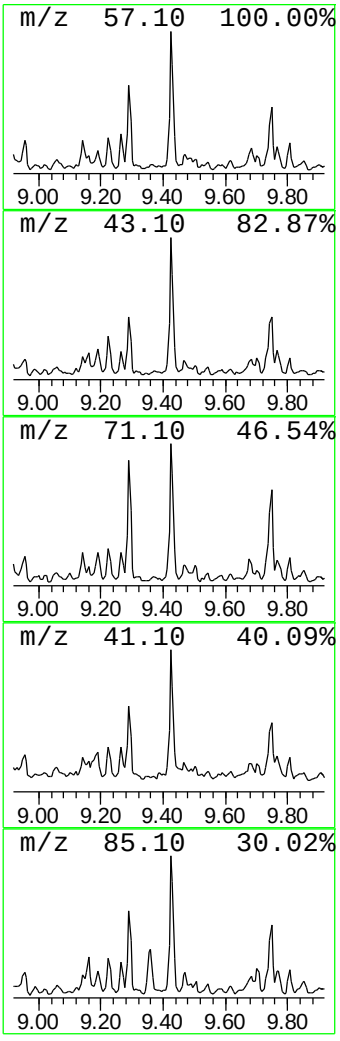
****

Peak Number 9 Tetradecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	6.50 ng	418115	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	93
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tridecane	184	C13H28	000629-50-5	78
4	Nonane, 5-butyl-	184	C13H28	017312-63-9	72
5	Dodecane	170	C12H26	000112-40-3	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

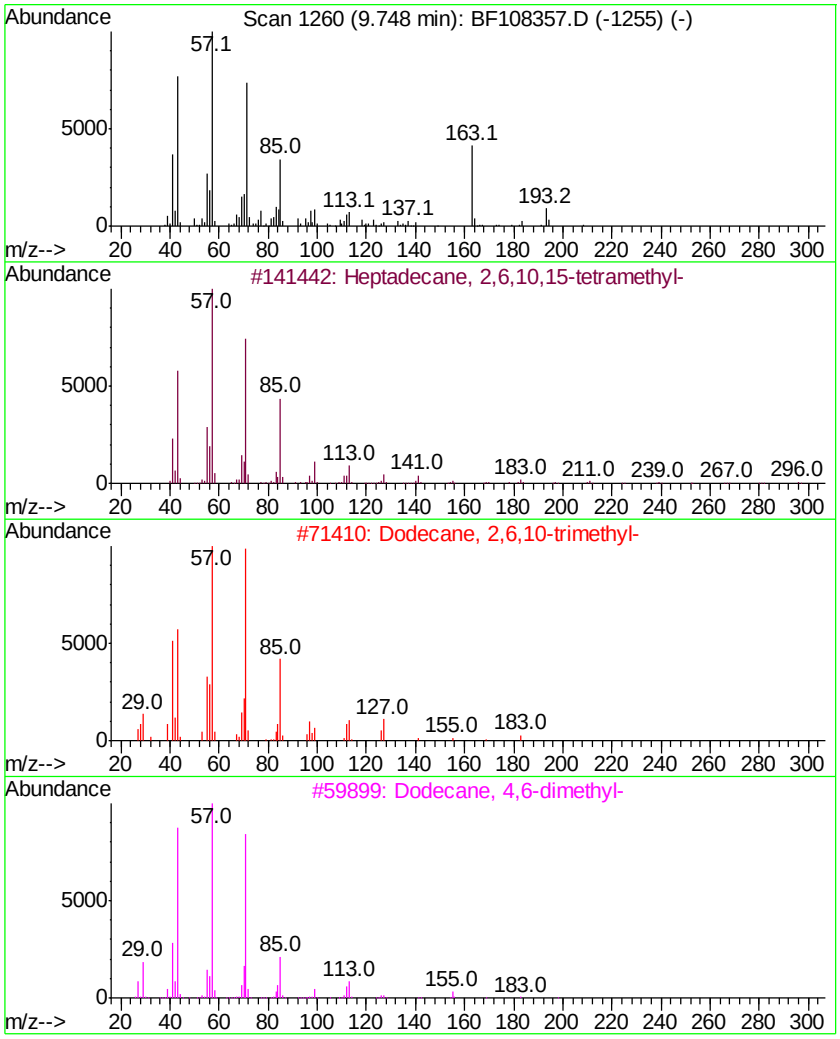
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

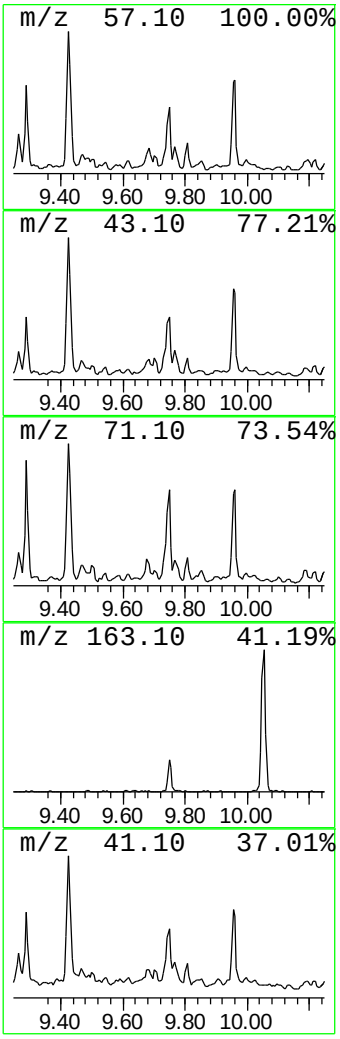
****

Peak Number 10 Heptadecane, 2,6,10,15-tetr... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	4.54 ng	292357	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	58
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	58
3	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	50
4	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	50
5	Decane, 5-propyl-	184	C13H28	017312-62-8	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

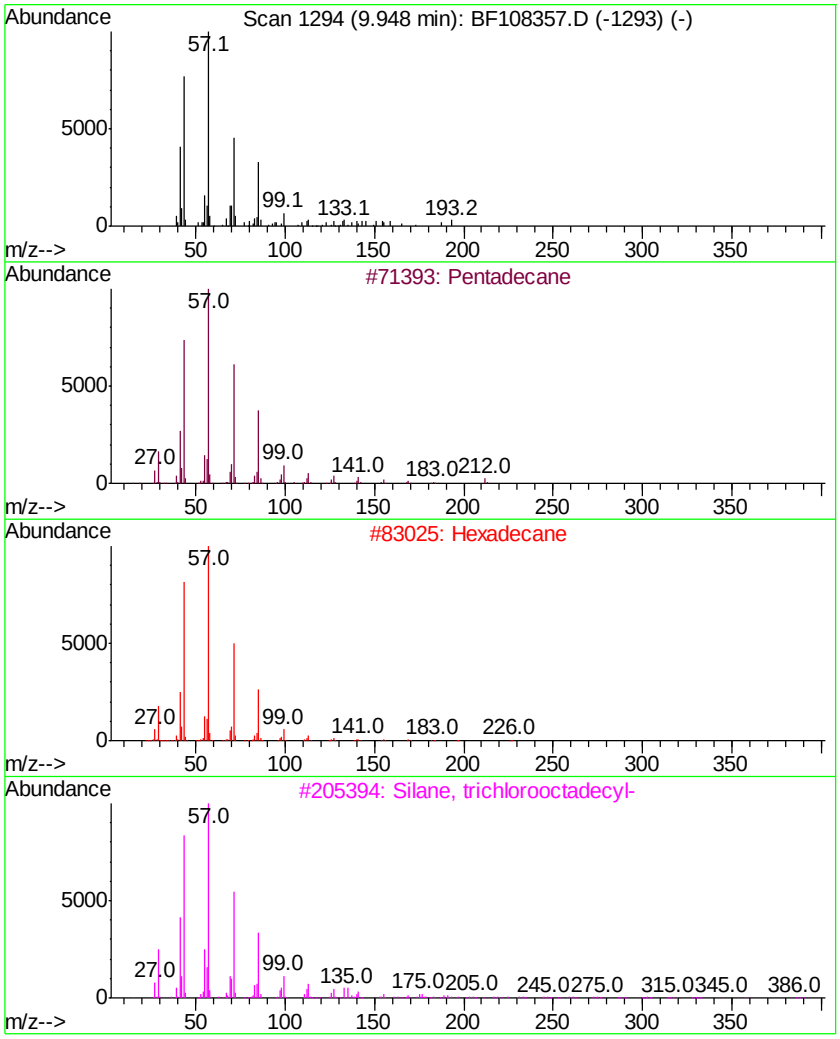
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

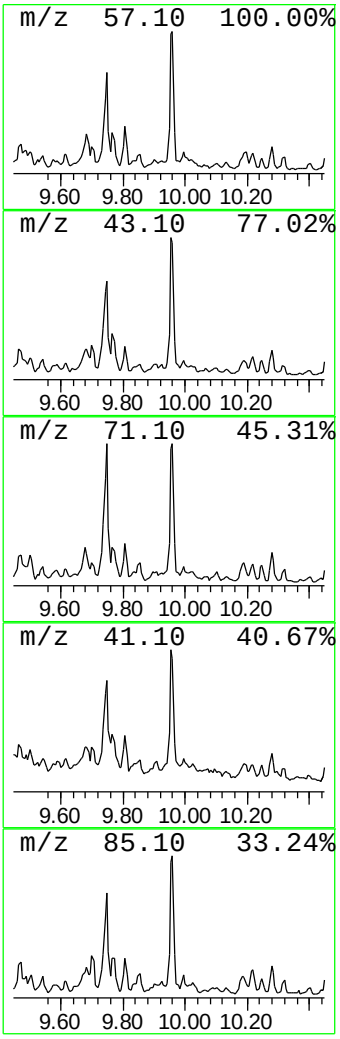
****

Peak Number 11 Pentadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	4.48 ng	288091	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	90
4	Tridecane, 7-propyl-	226	C16H34	055045-09-5	86
5	Undecane	156	C11H24	001120-21-4	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

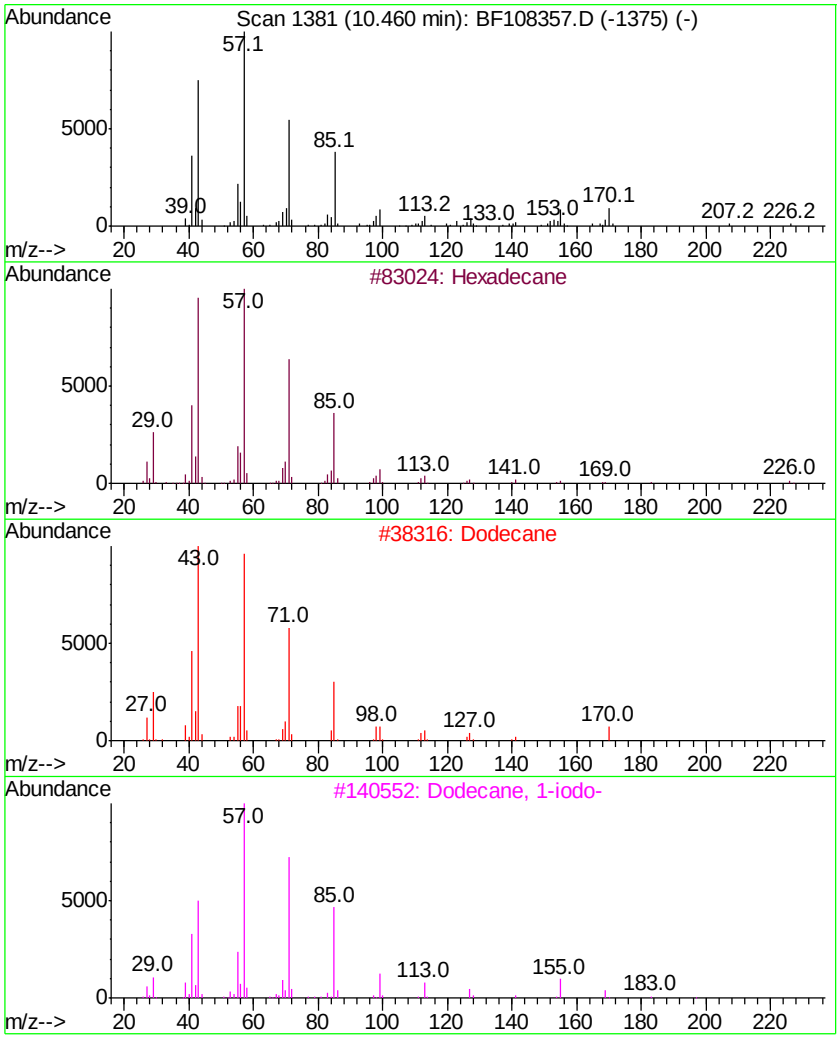
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

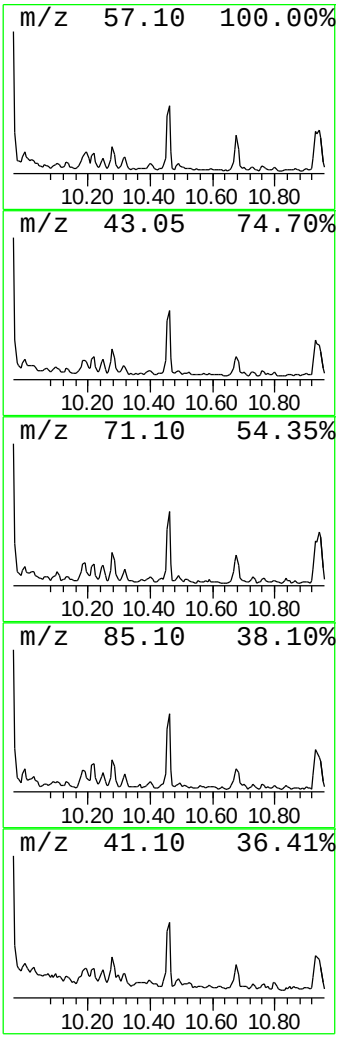
****

Peak Number 13 Hexadecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.46	2.62 ng	168452	Acenaphthene-d10	10.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Dodecane	170	C12H26	000112-40-3	90
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
4	Tetradecane	198	C14H30	000629-59-4	72
5	Decane, 3-methyl-	156	C11H24	013151-34-3	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

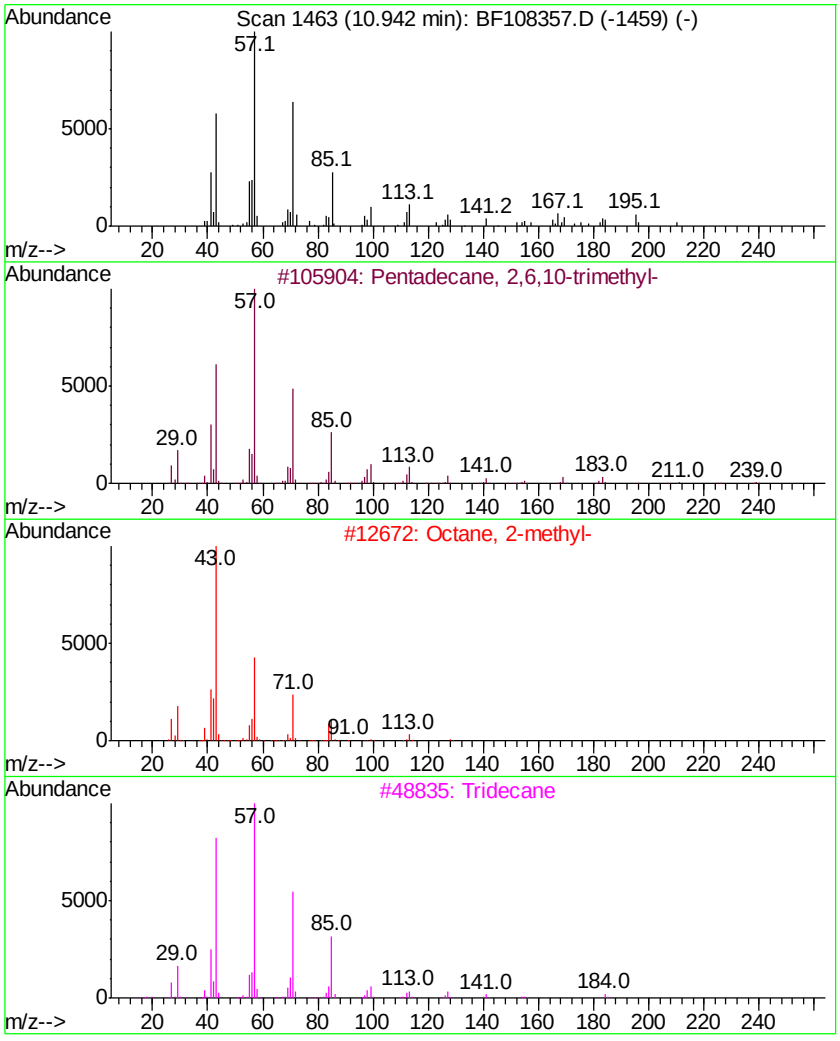
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

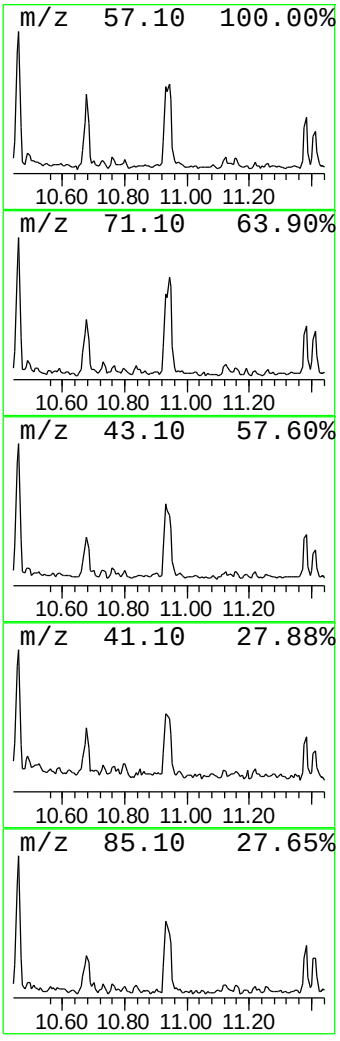
****

Peak Number 14 Pentadecane, 2,6,10-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.94	3.29 ng	180673	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	72
2	Octane, 2-methyl-	128	C9H20	003221-61-2	72
3	Tridecane	184	C13H28	000629-50-5	64
4	Bacchotricuneatin c	342	C20H22O5	066563-30-2	64
5	Tetracosane	338	C24H50	000646-31-1	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

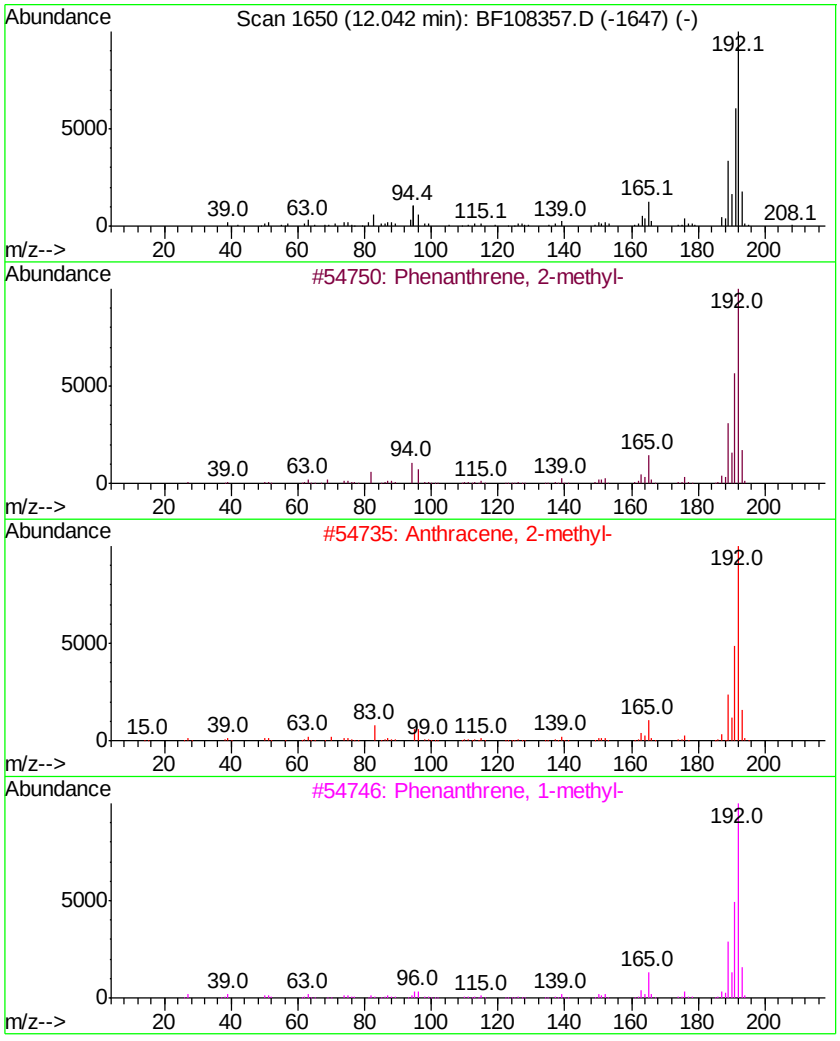
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

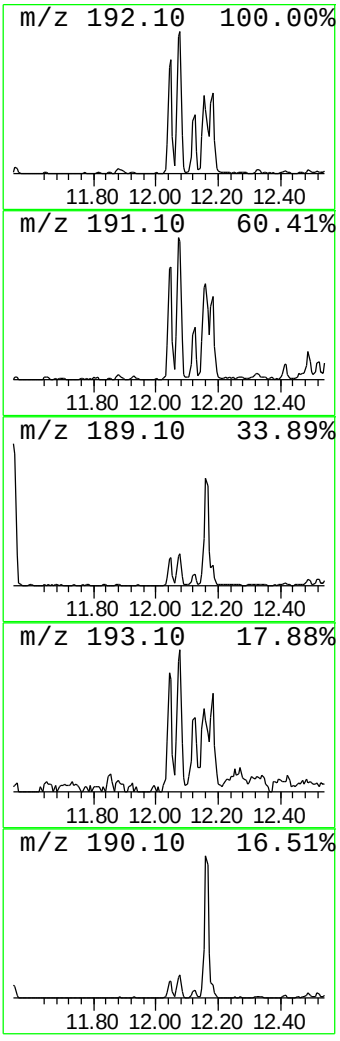
****

Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	2.57 ng	141290	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

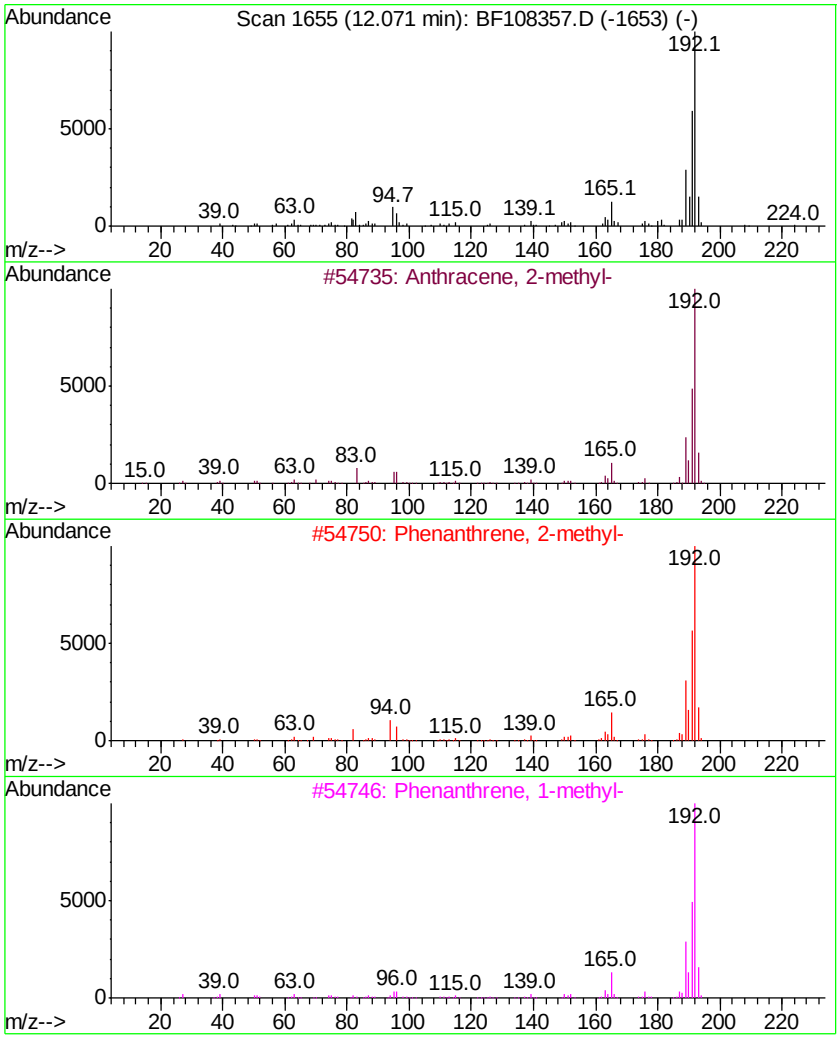
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

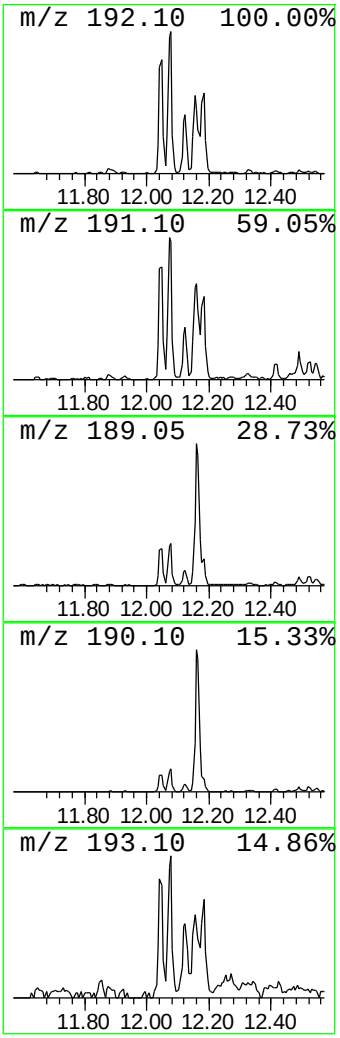
****

Peak Number 16 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	3.05 ng	167712	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

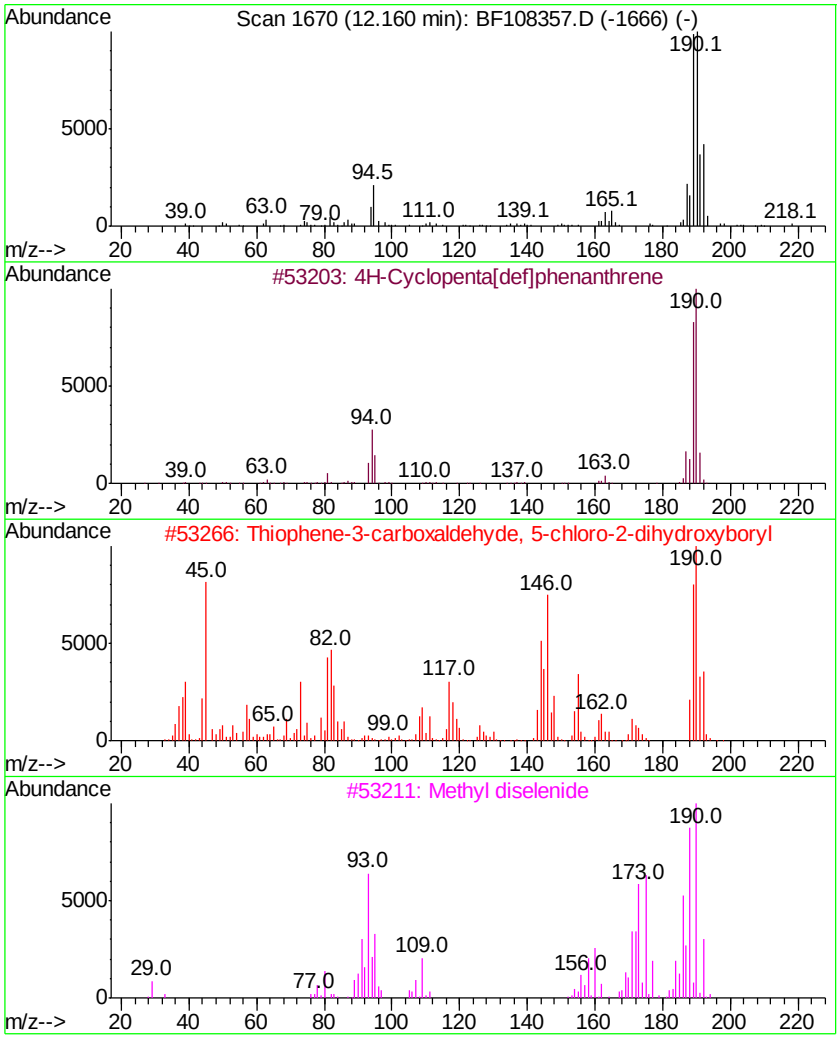
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

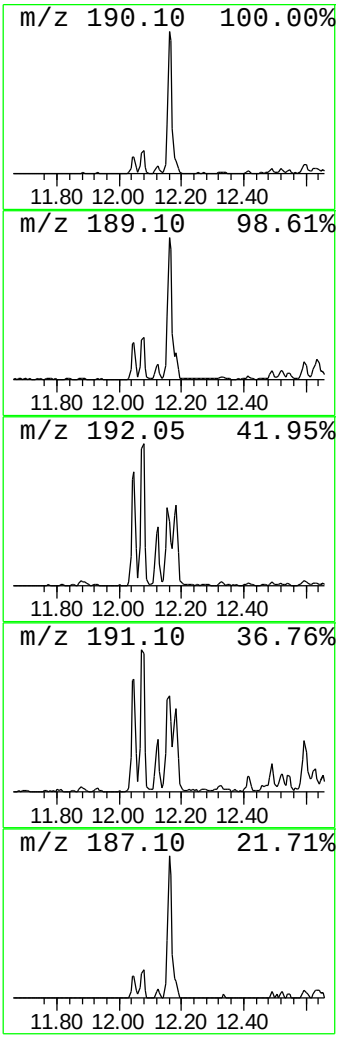
****

Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	4.85 ng	266709	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	74
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	Methyl diselenide	190	C2H6Se2	007101-31-7	46
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

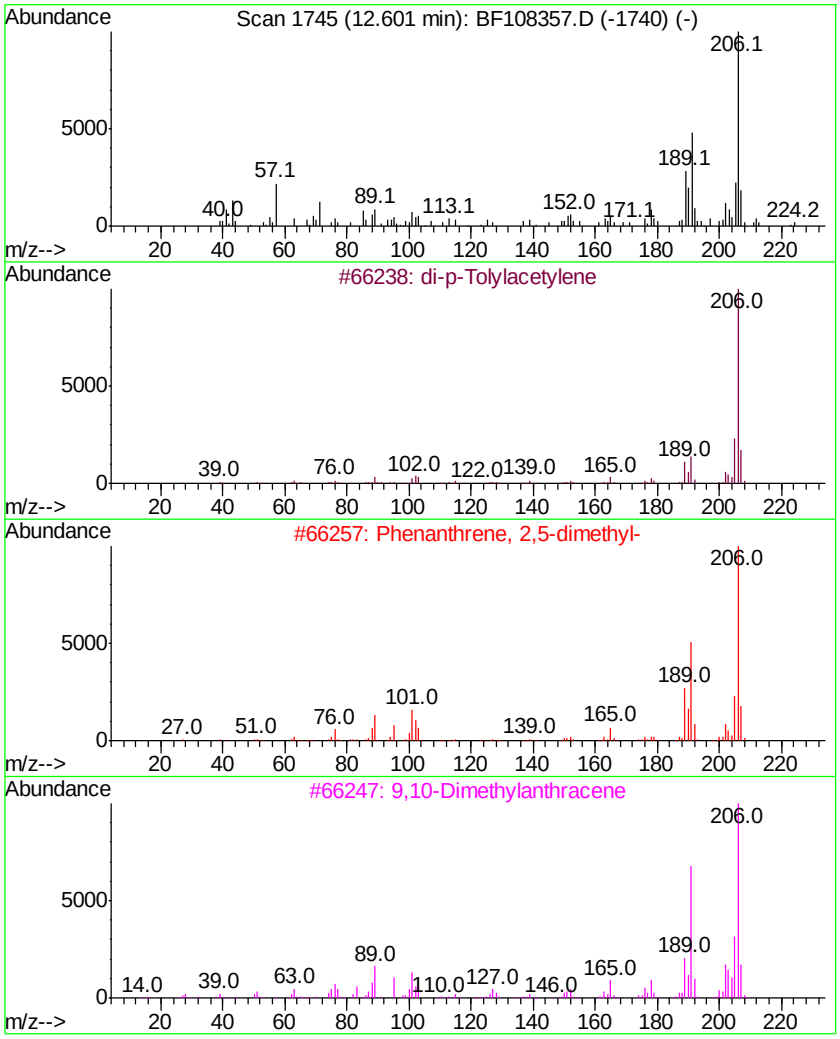
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

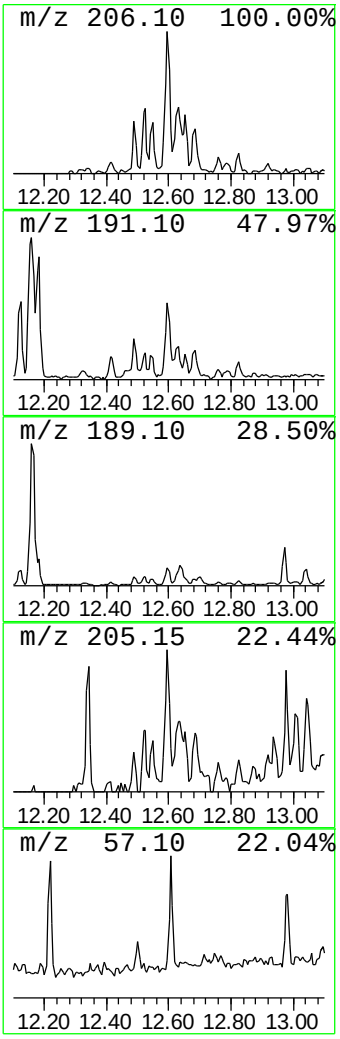
****

Peak Number 18 di-p-Tolylacetylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	2.74 ng	150448	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

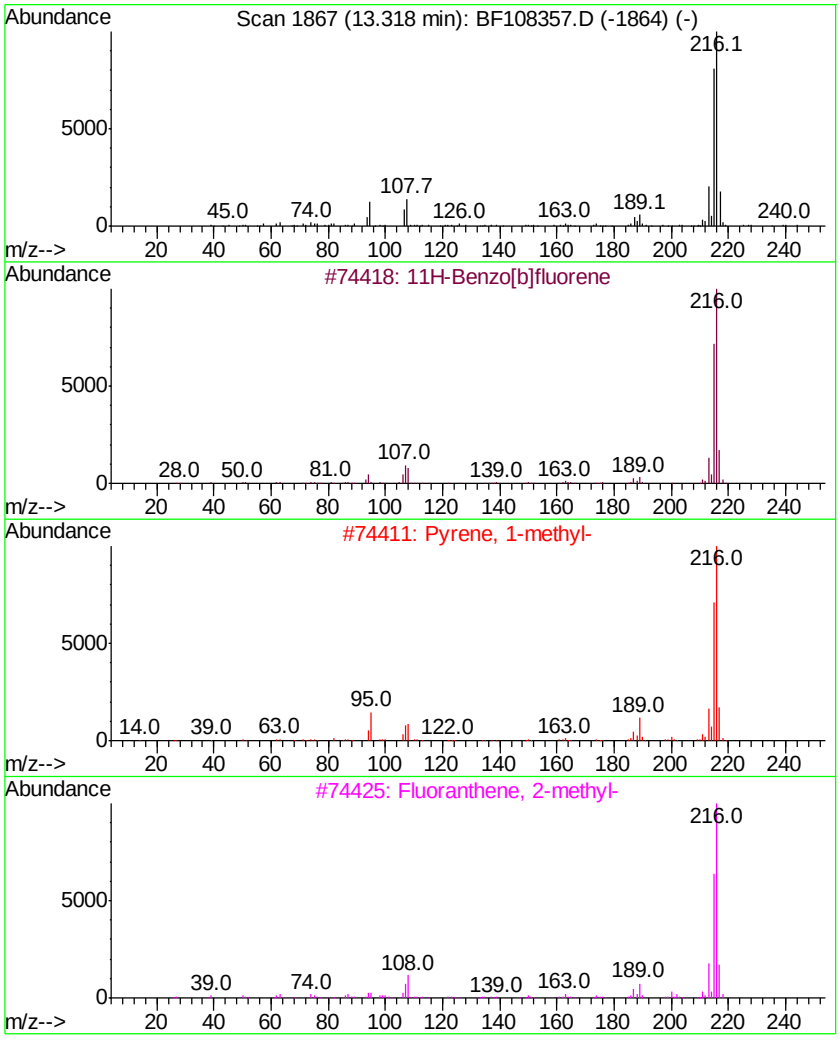
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

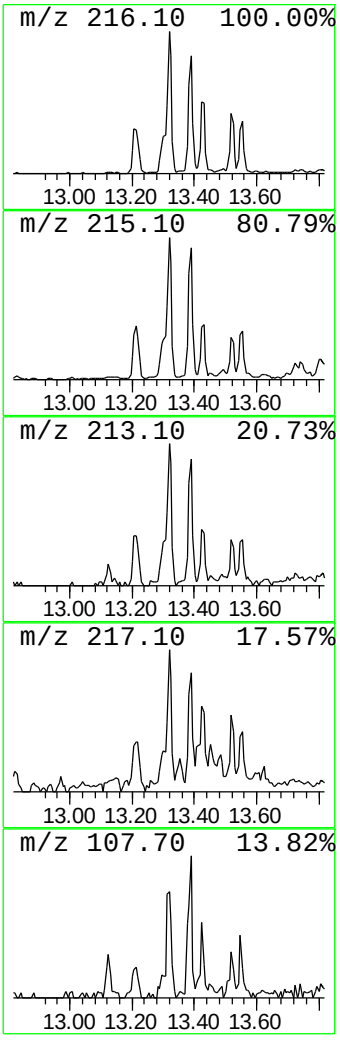
****

Peak Number 19 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	2.58 ng	201363	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

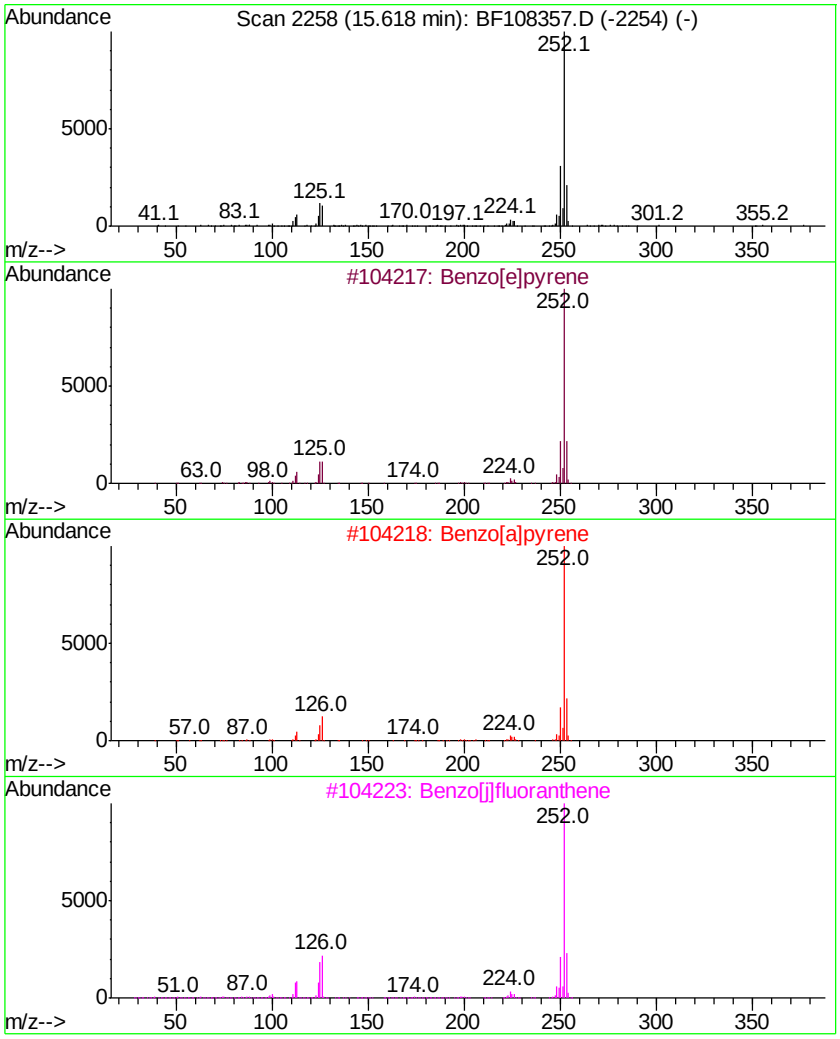
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

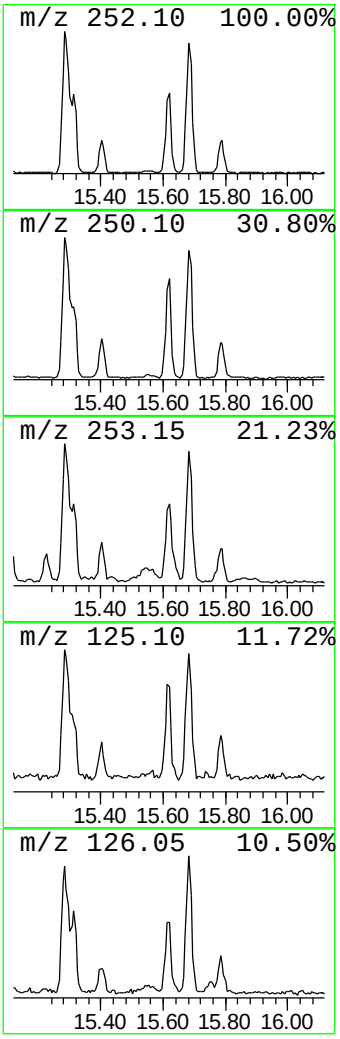
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.62	5.46 ng	246555	Perylene-d12	15.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Perylene	252	C20H12	000198-55-0	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082118\
Data File : BF108357.D
Acq On : 22 Aug 2018 00:20
Operator : JU/SJ
Sample : J4271-11 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HR-06-082018-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
unknown6.77	6.77	8.2	ng	409208	1	7.00	1001950	20.0
unknown8.57	8.57	3.1	ng	204500	2	8.29	1310170	20.0
Octane, 2,6-dimet...	8.69	3.2	ng	208110	2	8.29	1310170	20.0
Tridecane	8.86	6.1	ng	398026	2	8.29	1310170	20.0
Naphthalene, 1-me...	9.10	2.5	ng	166838	2	8.29	1310170	20.0
unknown9.22	9.22	2.2	ng	138822	3	10.05	1287360	20.0
Dodecane, 2,6,10-...	9.29	3.5	ng	221788	3	10.05	1287360	20.0
Tetradecane	9.42	6.5	ng	418115	3	10.05	1287360	20.0
Heptadecane, 2,6,...	9.75	4.5	ng	292357	3	10.05	1287360	20.0
Pentadecane	9.95	4.5	ng	288091	3	10.05	1287360	20.0
Hexadecane	10.46	2.6	ng	168452	3	10.05	1287360	20.0
Pentadecane, 2,6,...	10.94	3.3	ng	180673	4	11.54	1099100	20.0
Phenanthrene, 2-m...	12.04	2.6	ng	141290	4	11.54	1099100	20.0
Anthracene, 2-met...	12.07	3.0	ng	167712	4	11.54	1099100	20.0
4H-Cyclopenta[def...	12.16	4.8	ng	266709	4	11.54	1099100	20.0
di-p-Tolylacetylene	12.60	2.7	ng	150448	4	11.54	1099100	20.0
11H-Benzo[b]fluorene	13.32	2.6	ng	201363	5	14.20	1562660	20.0
Benzo[e]pyrene	15.62	5.5	ng	246555	6	15.75	902742	20.0