LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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	5.260	492	497	504	rVB	165856	191400	5.05%	0.317%
2	5.642	557	562	565	rBV	3530604	3355139	88.44%	5.553%
3	6.636	725	731	734	rBV	3541528	3566066	94.00%	5.902%
4	6.784	752	756	760	rBV	3633950	3548071	93.53%	5.872%
5	6.831	762	764	769	rVB2	42998	45983	1.21%	0.076%
6	7.013	792	795	799	rBV	1110034	988939	26.07%	1.637%
7	7.172	818	822	825	rBV	3294295	2797124	73.73%	4.629%
8	7.578	886	891	898	rBV	2551027	2410174	63.53%	3.989%
9	8.301	1009	1014	1016	rBV	1259201	1196736	31.55%	1.981%
10	8.319	1016	1017	1020	rVB	89601	50089	1.32%	0.083%
11	9.013	1131	1135	1139	rBV	46108	42612	1.12%	0.071%
12	9.372	1191	1196	1199	rBV	4389819	3793575	100.00%	6.278%
13	9.760	1259	1262	1270	rVB	284027	228576	6.03%	0.378%
14	9.954	1293	1295	1301	rBV2	55167	65675	1.73%	0.109%
15	10.060	1309	1313	1316	rBV2	1384977	1186036	31.26%	1.963%
16	10.089	1316	1318	1322	rVB	222953	195002	5.14%	0.323%
17	10.266	1344	1348	1351	rBV	133467	125420	3.31%	0.208%
18	10.466	1374	1382	1387	rBV5	39607	55480	1.46%	0.092%
19	10.607	1403	1406	1411	rVB	199012	179488	4.73%	0.297%
20	10.766	1431	1433	1436	rVB	61836	50696	1.34%	0.084%
21	10.854	1443	1448	1454	rBV	2144534	2033875	53.61%	3.366%
22	10.954	1461	1465	1468	rBV3	37516	58682	1.55%	0.097%
23	11.283	1516	1521	1523	rBV3	41075	46764	1.23%	0.077%
24	11.360	1530	1534	1538	rBV	117546	108155	2.85%	0.179%
25	11.395	1538	1540	1547	rBV3	57553	77181	2.03%	0.128%
26	11.454	1547	1550	1552	rBV	116026	96851	2.55%	0.160%
27	11.554	1564	1567	1569	rBV	1101298	1043206	27.50%	1.727%
28	11.583	1569	1572	1575	rVV	2308833	1956540	51.58%	3.238%
29	11.630	1575	1580	1583	rVV	411366	377628	9.95%	0.625%
30	11.666	1583	1586	1590	rVB	74722	73219	1.93%	0.121%
31	11.730	1590	1597	1601	rBV5	21193	42510	1.12%	0.070%
32	11.783	1601	1606	1611	rBV2	295637	306799	8.09%	0.508%
33	12.060	1647	1653	1655	rBV	264630	255262	6.73%	0.422%
34	12.089	1655	1658	1661	rVV	275101	282092	7.44%	0.467%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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	12.130	1663	1665	1668	rVB	82835	79378	2.09%	0.131%
36	12.171	1668	1672	1675	rBV2	316089	392358	10.34%	0.649%
37	12.195	1675	1676	1679	rVB	137259	71880	1.89%	0.119%
38	12.230	1679	1682	1685	rBV4	55803	64298	1.69%	0.106%
39	12.354	1699	1703	1705	rBV	183609	157194	4.14%	0.260%
40	12.377	1705	1707	1711	rVB	330364	286924	7.56%	0.475%
41	12.613	1742	1747	1751	rBV2	98203	171311	4.52%	0.284%
42	12.695	1758	1761	1766	rVB	131948	145207	3.83%	0.240%
43	12.777	1771	1775	1779	rVV	2964340	2807604	74.01%	4.647%
44	12.836	1783	1785	1788	rVB	85650	70311	1.85%	0.116%
45	12.901	1793	1796	1798	rBV2	66895	77900	2.05%	0.129%
46	12.930	1798	1801	1803	rVV2	78778	64089	1.69%	0.106%
47	12.989	1808	1811	1812	rBV	552826	510169	13.45%	0.844%
48	13.013	1812	1815	1818	rVB	2564839	2244223	59.16%	3.714%
49	13.054	1819	1822	1826	rVB2	127840	128351	3.38%	0.212%
50	13.142	1830	1837	1840	rBV	3270269	2989010	78.79%	4.947%
51	13.165	1840	1841	1844	rVB	174031	109514	2.89%	0.181%
52	13.218	1846	1850	1854	rBV3	146053	249903	6.59%	0.414%
53	13.260	1854	1857	1861	rVB	65955	54982	1.45%	0.091%
54	13.307	1861	1865	1867	rBV4	125153	176137	4.64%	0.292%
55	13.336	1867	1870	1878	rVB	312067	375647	9.90%	0.622%
56	13.401	1878	1881	1883	rBV	230181	198084	5.22%	0.328%
57	13.442	1883	1888	1889	rBV2	171081	226652	5.97%	0.375%
58	13.460	1889	1891	1895	rVB2	452820	433885	11.44%	0.718%
59	13.495	1895	1897	1900	rVB2	54683	49521	1.31%	0.082%
60	13.536	1901	1904	1906	rBV	108921	102000	2.69%	0.169%
61	13.571	1906	1910	1913	rBV2	375974	448406	11.82%	0.742%
62	13.607	1913	1916	1921	rVB3	229981	309280	8.15%	0.512%
63	13.818	1949	1952	1953	rBV3	52663	53483	1.41%	0.089%
64	13.842	1953	1956	1960	rVB	287530	266004	7.01%	0.440%
65	13.960	1971	1976	1978	rBV2	231700	314210	8.28%	0.520%
66	13.983	1978	1980	1983	rVV	212307	201769	5.32%	0.334%
67	14.024	1983	1987	1990	rVV3	381453	645379	17.01%	1.068%
68	14.048	1990	1991	1995	rVB	311138	258899	6.82%	0.428%
69	14.124	2001	2004	2008	rBV	79345	102455	2.70%	0.170%
70	14.165	2008	2011	2014	rVV2	146333	216862	5.72%	0.359%
71	14.207	2014	2018	2021	rVV3	1793297	2651655	69.90%	4.388%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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	14.236	2021	2023	2029	rVB	1407495	1293469	34.10%	2.141%
73	14.318	2034	2037	2039	rBV	212168	171848	4.53%	0.284%
74	14.436	2053	2057	2060	rBV2	166970	225088	5.93%	0.373%
75	14.465	2060	2062	2065	rVB2	76551	65669	1.73%	0.109%
76	14.595	2080	2084	2088	rBV	238271	260395	6.86%	0.431%
77	14.636	2088	2091	2095	rVV3	141819	232190	6.12%	0.384%
78	14.677	2095	2098	2100	rVV4	102999	153921	4.06%	0.255%
79	14.730	2104	2107	2109	rVV	129481	135802	3.58%	0.225%
80	14.754	2109	2111	2114	rVB2	142528	127721	3.37%	0.211%
81	14.801	2115	2119	2126	rVB4	87980	158195	4.17%	0.262%
82	15.012	2152	2155	2156	rBV3	61060	64708	1.71%	0.107%
83	15.065	2160	2164	2168	rVB	300565	375755	9.91%	0.622%
84	15.142	2173	2177	2182	rVB2	384912	508626	13.41%	0.842%
85	15.306	2200	2205	2208	rBV	1050186	1761637	46.44%	2.916%
86	15.330	2208	2209	2215	rVV2	637741	705298	18.59%	1.167%
87	15.383	2215	2218	2222	rVV	302667	510819	13.47%	0.845%
88	15.418	2222	2224	2232	rVB	228275	306698	8.08%	0.508%
89	15.518	2237	2241	2243	rBV3	77993	120392	3.17%	0.199%
90	15.636	2257	2261	2268	rVB	568093	802955	21.17%	1.329%
91	15.706	2268	2273	2278	rBV	832728	1080637	28.49%	1.788%
92	15.771	2279	2284	2288	rVV2	684920	1020565	26.90%	1.689%
93	15.806	2288	2290	2296	rVB2	224808	284557	7.50%	0.471%
94	15.983	2317	2320	2327	rVB5	88060	148886	3.92%	0.246%
95	16.236	2359	2363	2369	rVB2	209352	336229	8.86%	0.556%
96	17.389	2552	2559	2566	rBV2	281215	596533	15.72%	0.987%
97	17.877	2637	2642	2653	rVB	192199	438502	11.56%	0.726%

Sum of corrected areas: 60423074

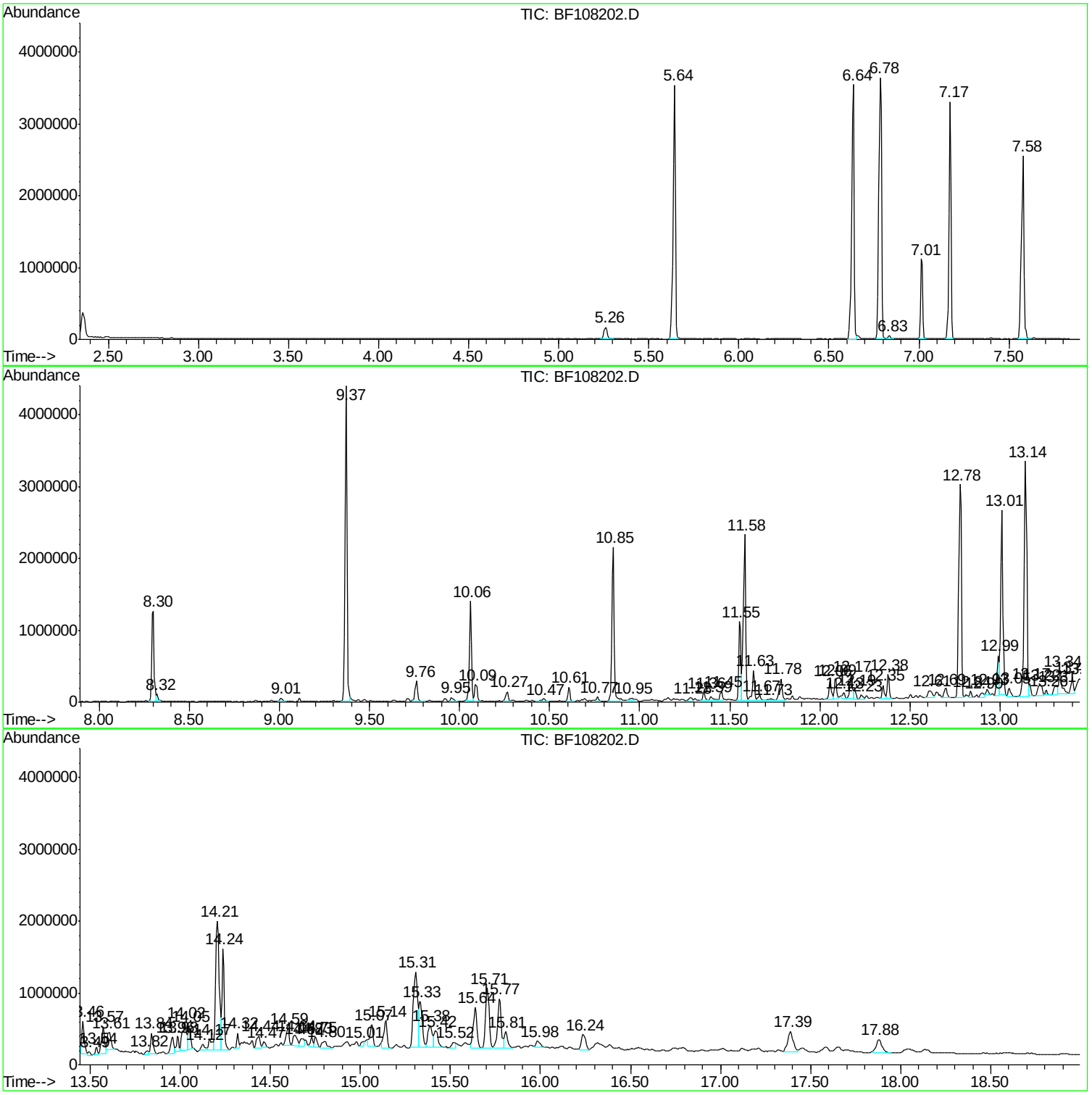
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

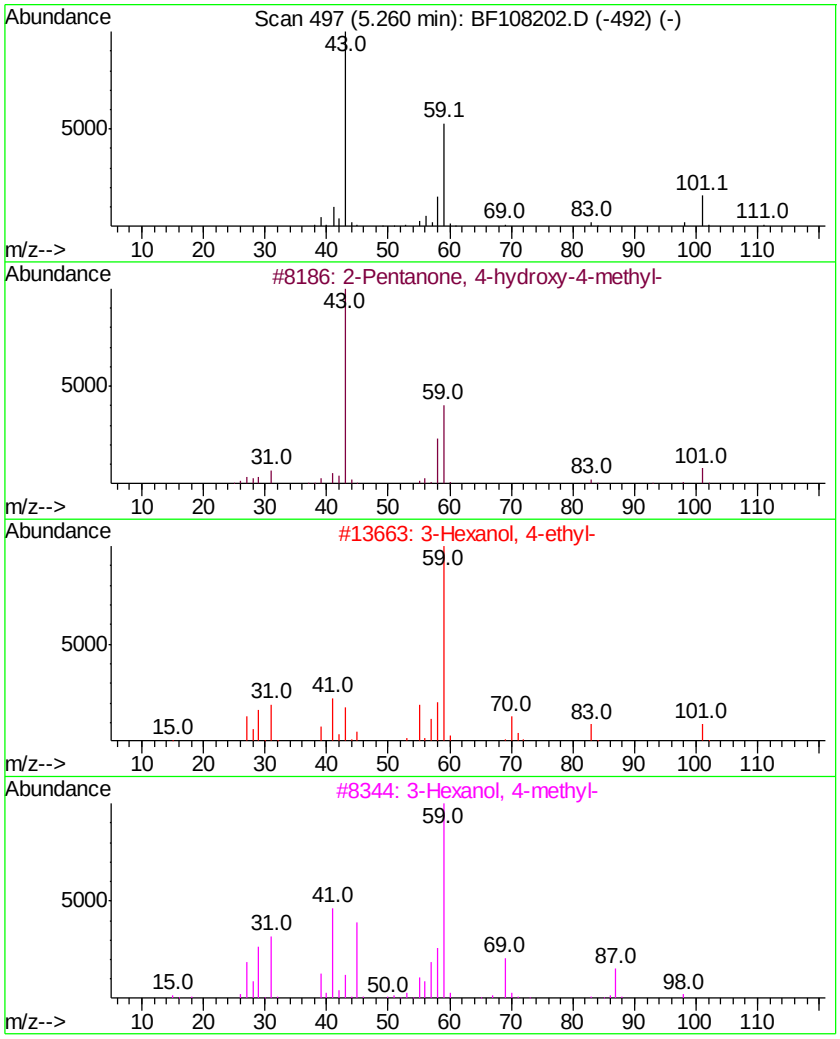
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

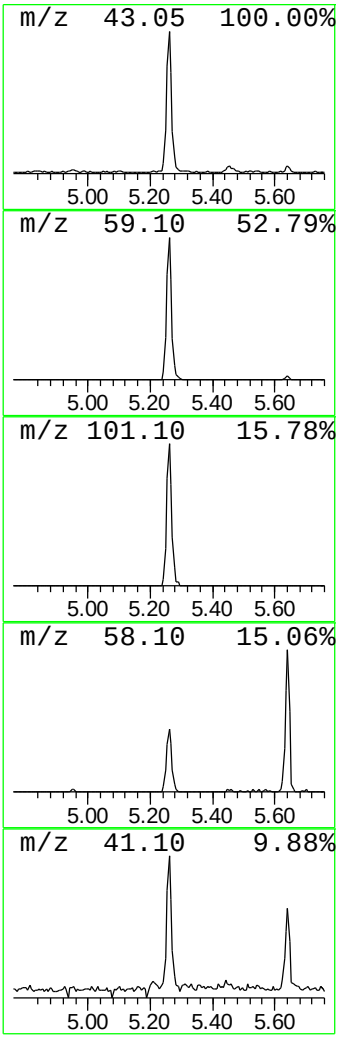
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.26	3.87 ng	191400	1,4-Dichlorobenzene-d4	7.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	3-Hexanol, 4-ethyl-	130	C8H18O	019780-44-0	33
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

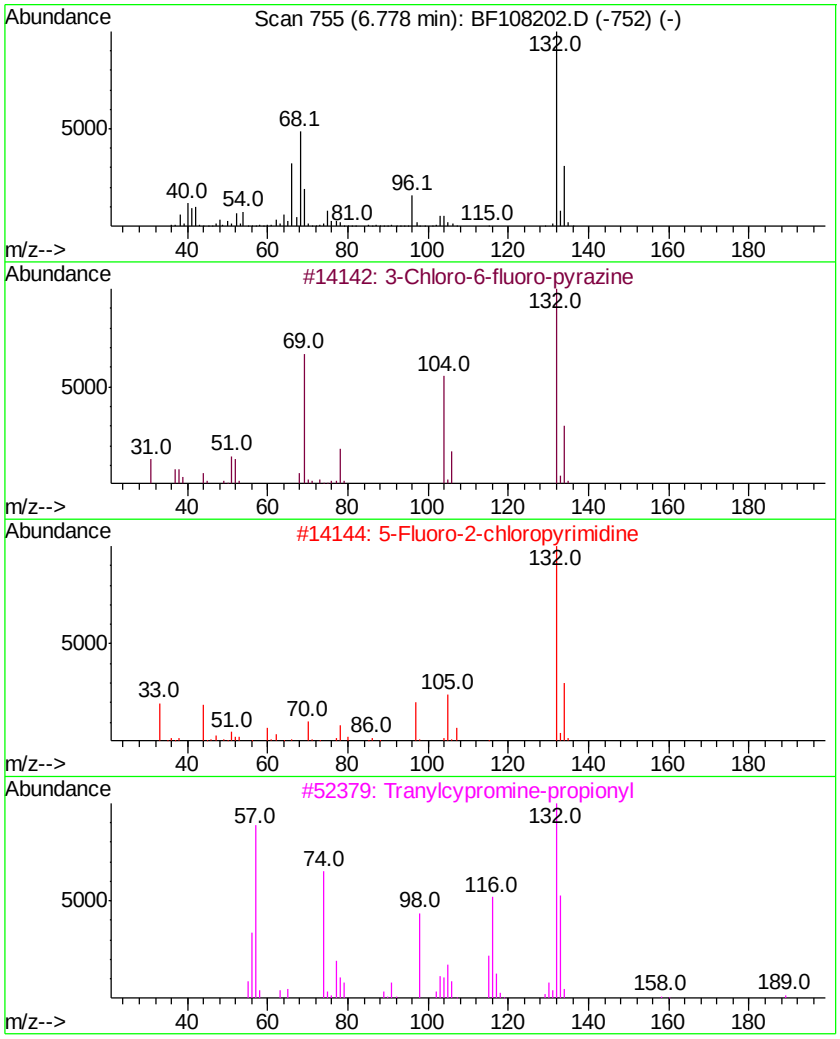
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

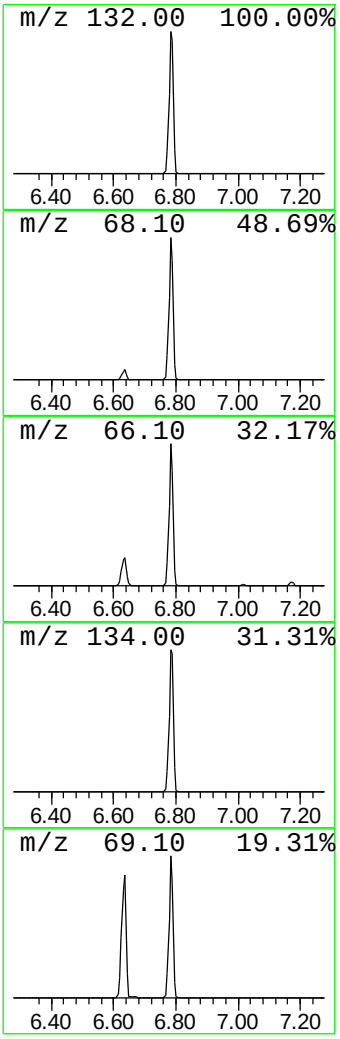
****

Peak Number 2 unknown6.78 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.78	71.76 ng	3548070	1,4-Dichlorobenzene-d4	7.02

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	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

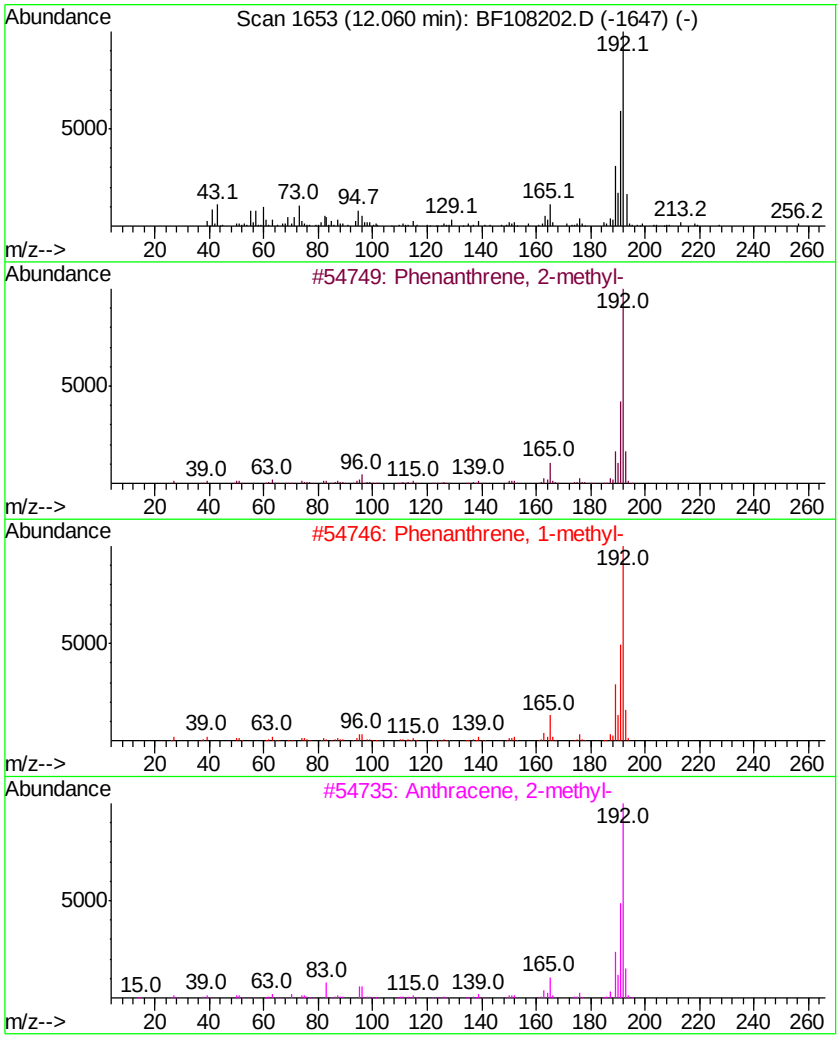
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

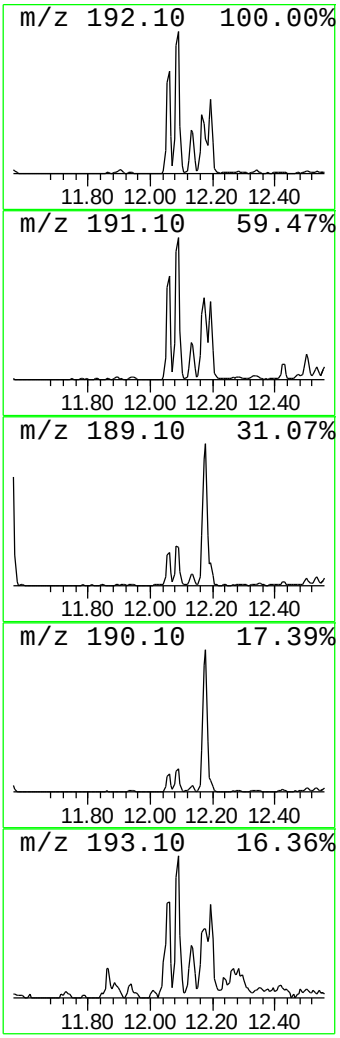
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	4.89 ng	255262	Phenanthrene-d10	11.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

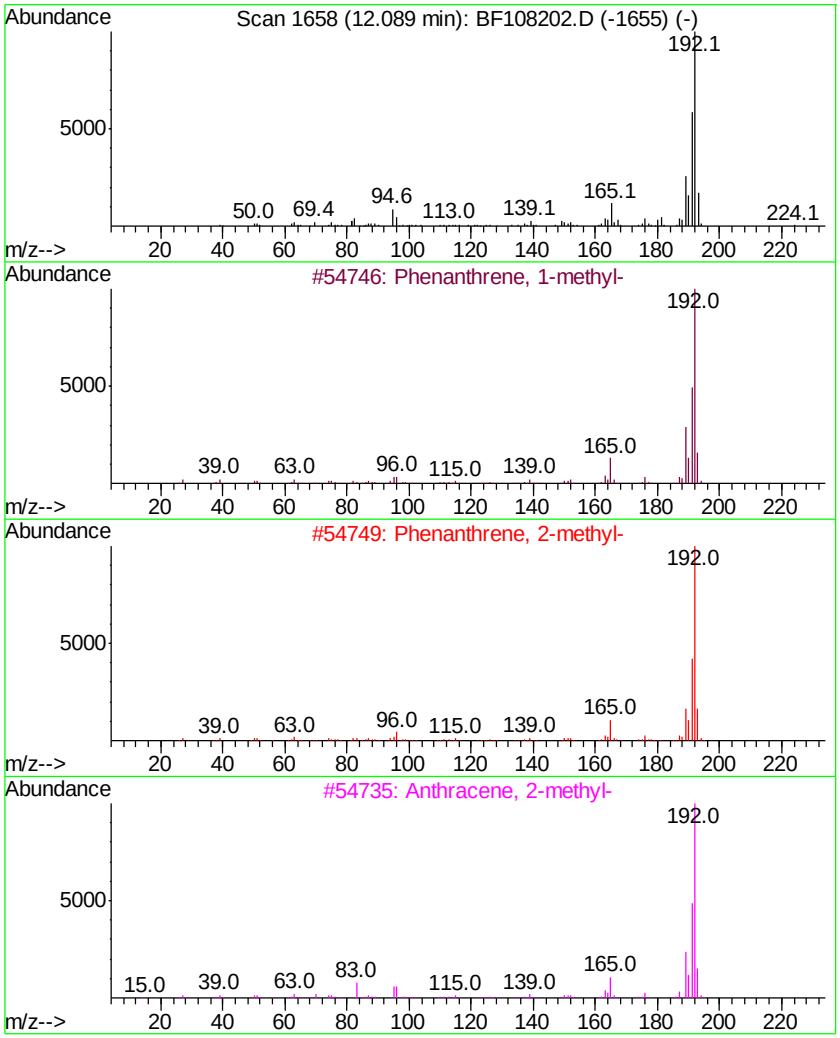
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

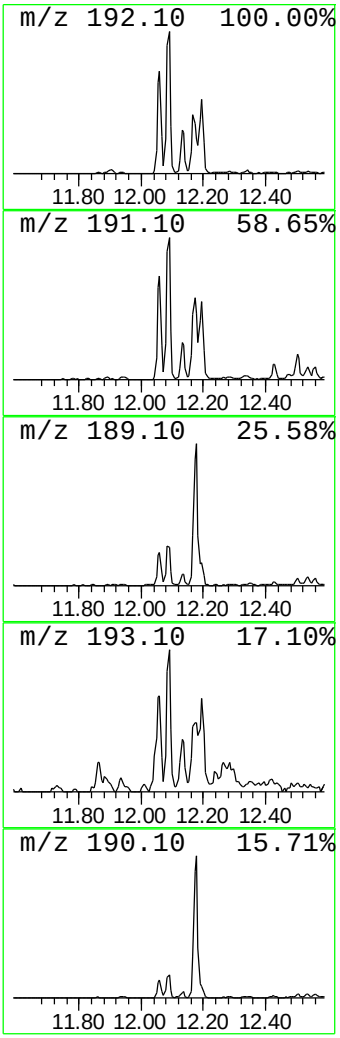
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	5.41 ng	282092	Phenanthrene-d10	11.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

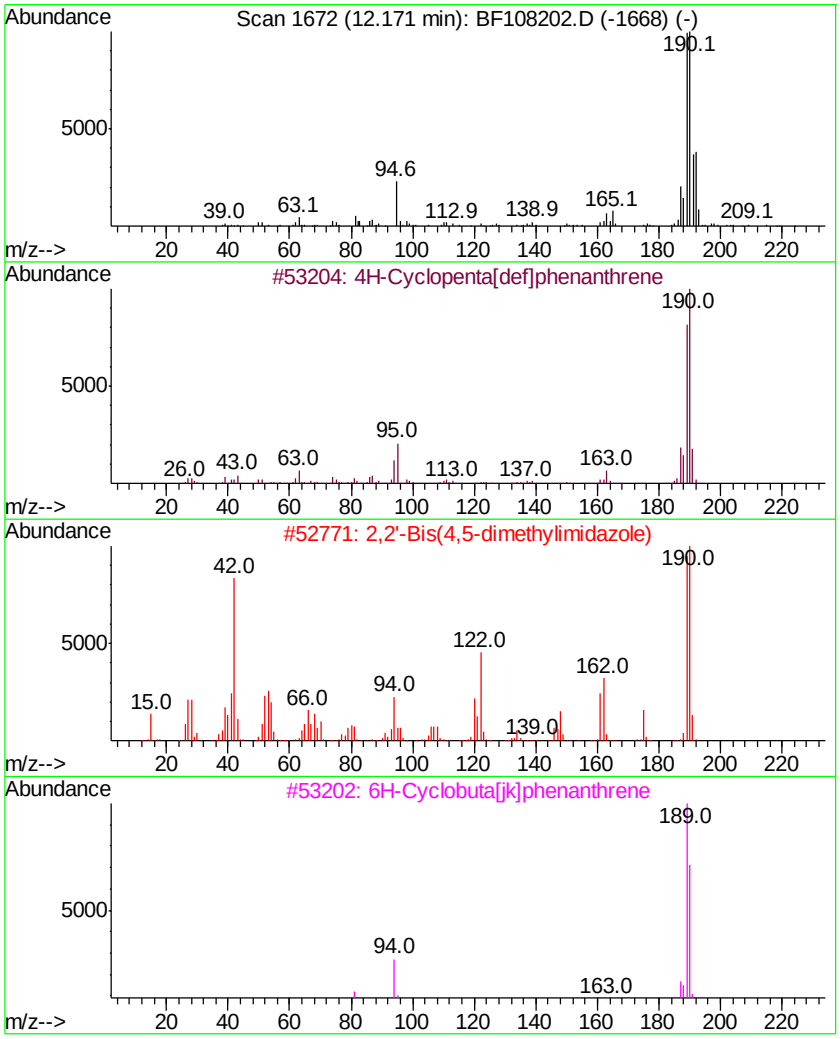
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

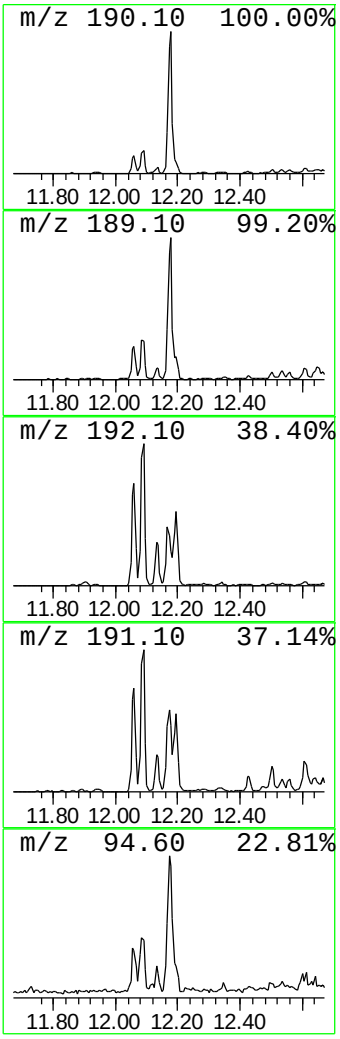
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	7.52 ng	392358	Phenanthrene-d10	11.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
4	1,1'-Biphenyl, 4,4'-difluoro-	190	C12H8F2	000398-23-2	17
5	1-Aminocyclopentanecarboxylic ac...	389	C20H36ClNO4	1000329-17-2	17





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

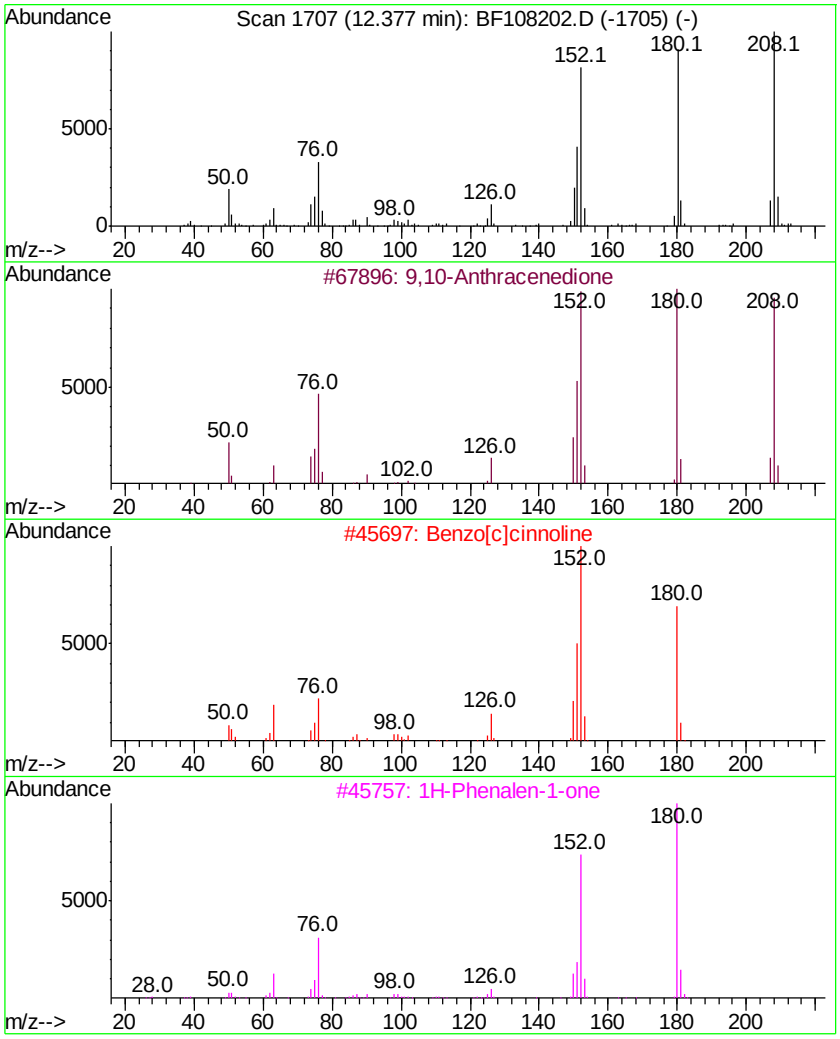
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

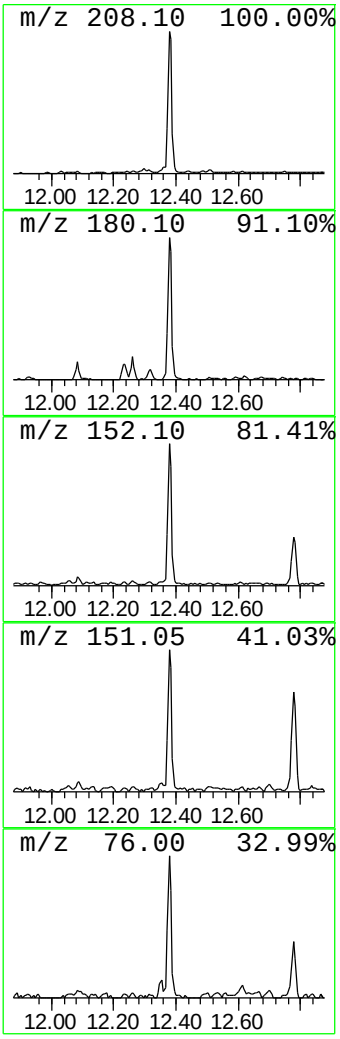
****

Peak Number 8 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	5.50 ng	286924	Phenanthrene-d10	11.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	52
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

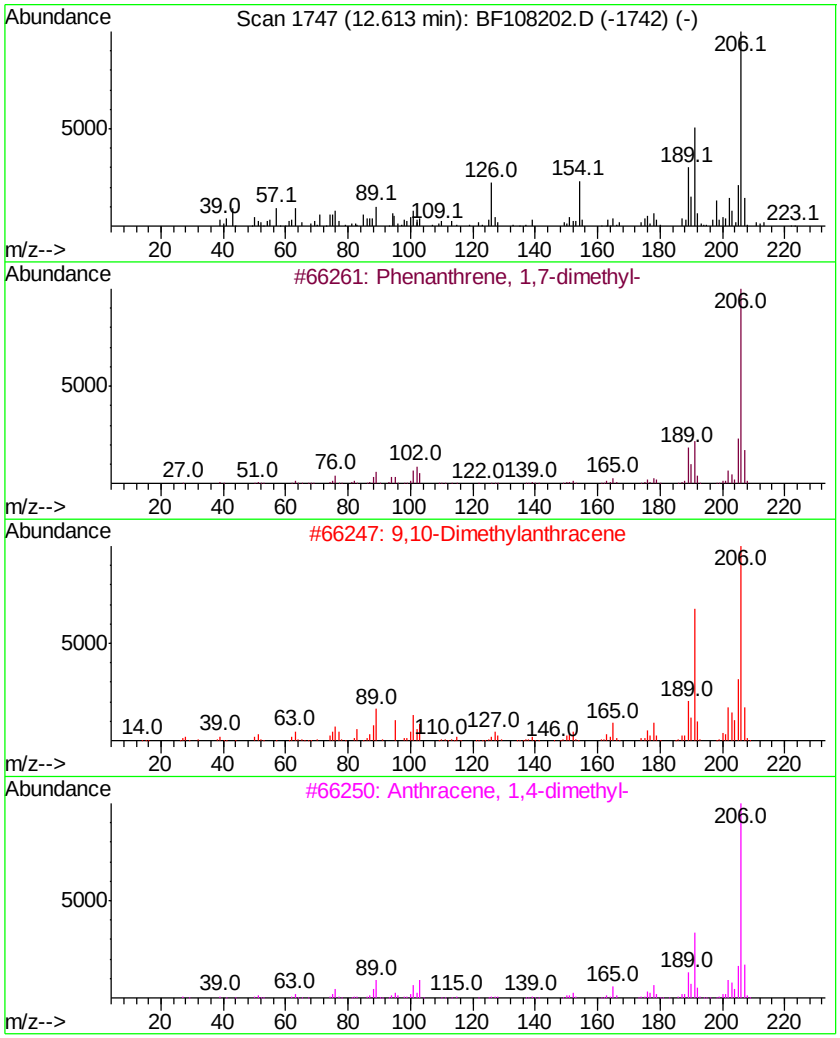
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

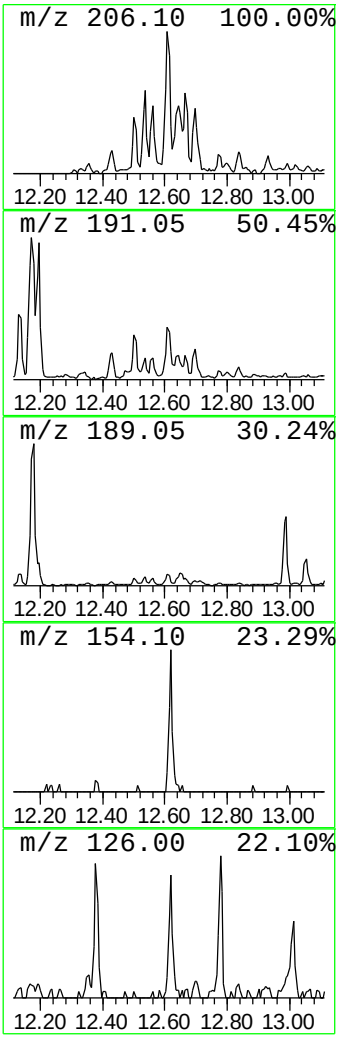
****

Peak Number 9 Phenanthrene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	3.28 ng	171311	Phenanthrene-d10	11.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	83
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	70
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	70
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	68
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

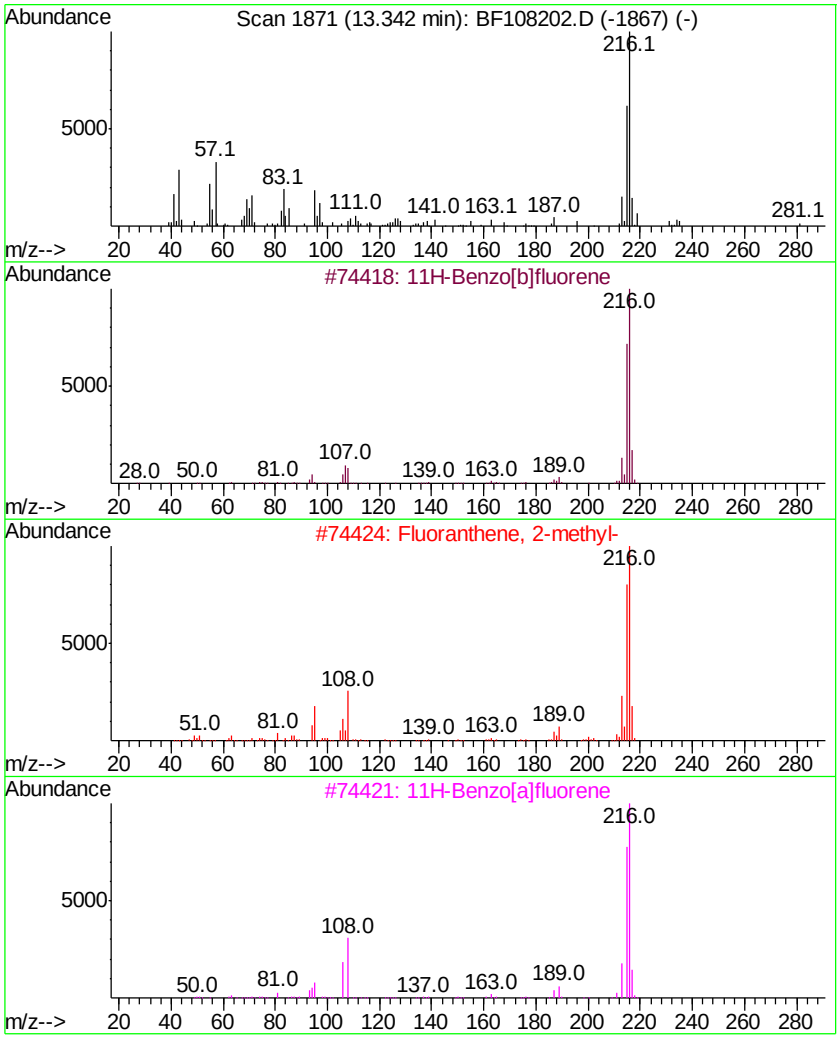
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

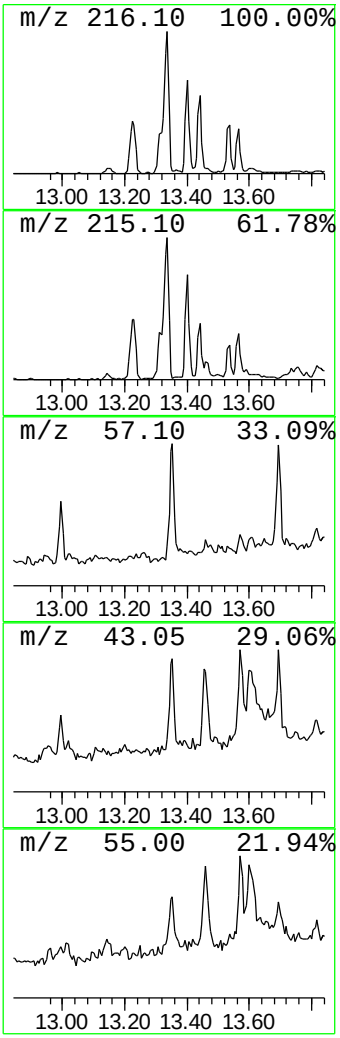
****

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.83 ng	375647	Chrysene-d12	14.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	68
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

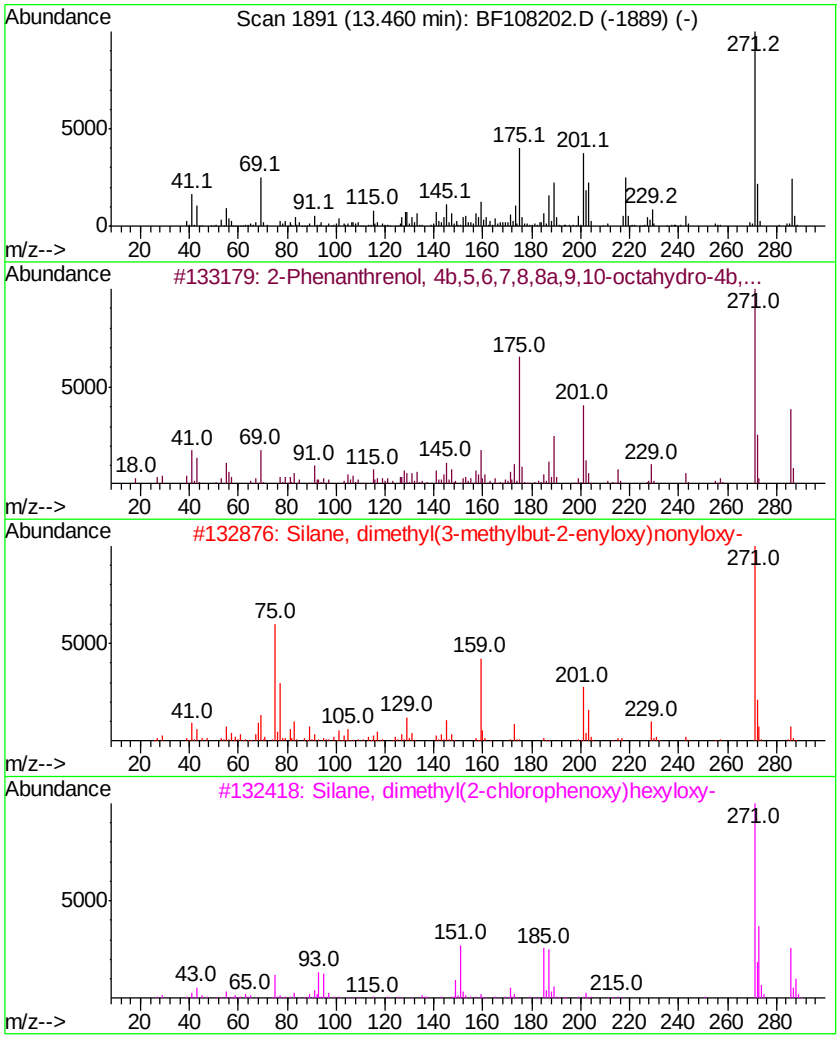
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

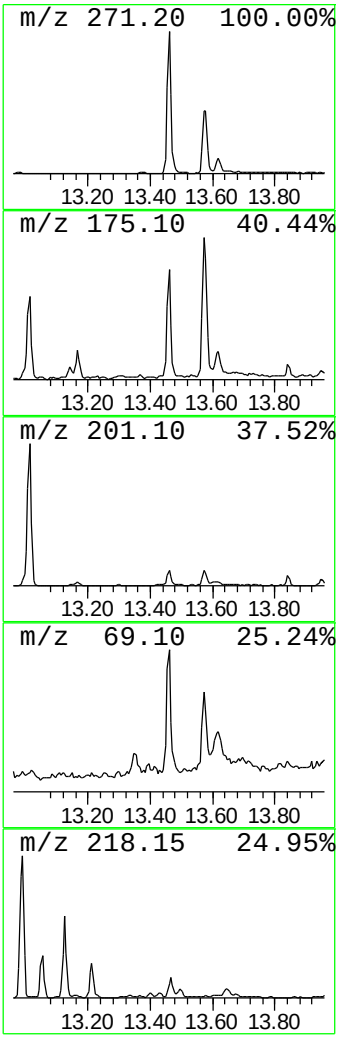
****

Peak Number 11 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	3.27 ng	433885	Chrysene-d12	14.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	83
2	Silane, dimethyl(3-methylbut-2-e...	286	C16H34O2Si	1000347-96-9	43
3	Silane, dimethyl(2-chlorophenoxy...	286	C14H23ClO2Si	1000347-07-3	32
4	2-(1-Hydroxynaphthyl-2)quinoline	271	C19H13NO	024641-28-9	30
5	Dihydronormorphinone	271	C16H17NO3	014696-23-2	27





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

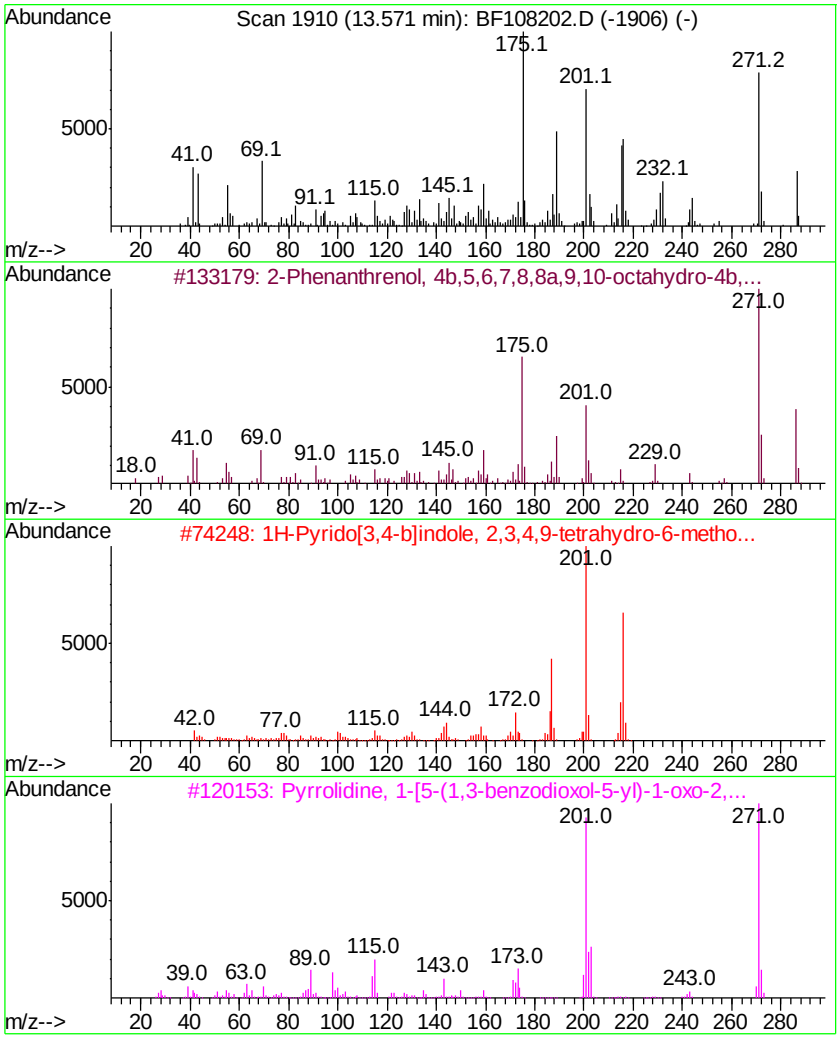
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

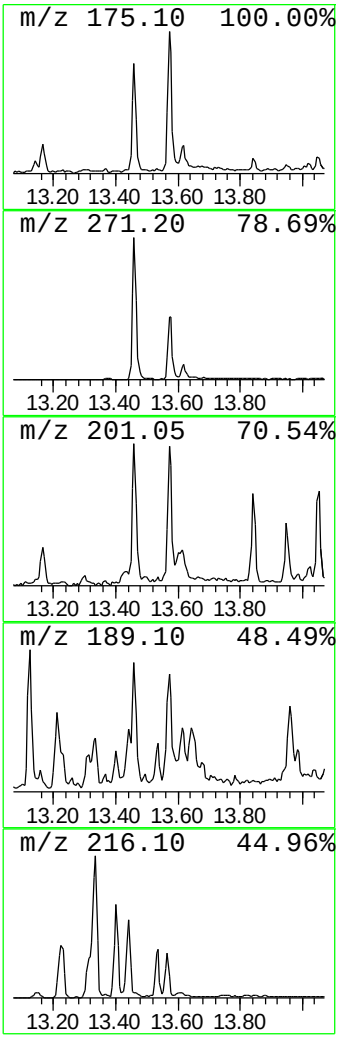
****

Peak Number 12 unknown13.57 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	3.38 ng	448406	Chrysene-d12	14.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	46
2	1H-Pyrido[3,4-b]indole, 2,3,4,9-...	216	C13H16N2O	001210-56-6	25
3	Pyrrolidine, 1-[5-(1,3-benzodiox...	271	C16H17NO3	025924-78-1	25
4	Crinan-1-one	271	C16H17NO3	098301-98-5	18
5	Silane, trimethyl(2-naphthalenyl...	216	C13H16OSi	018081-08-8	15





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

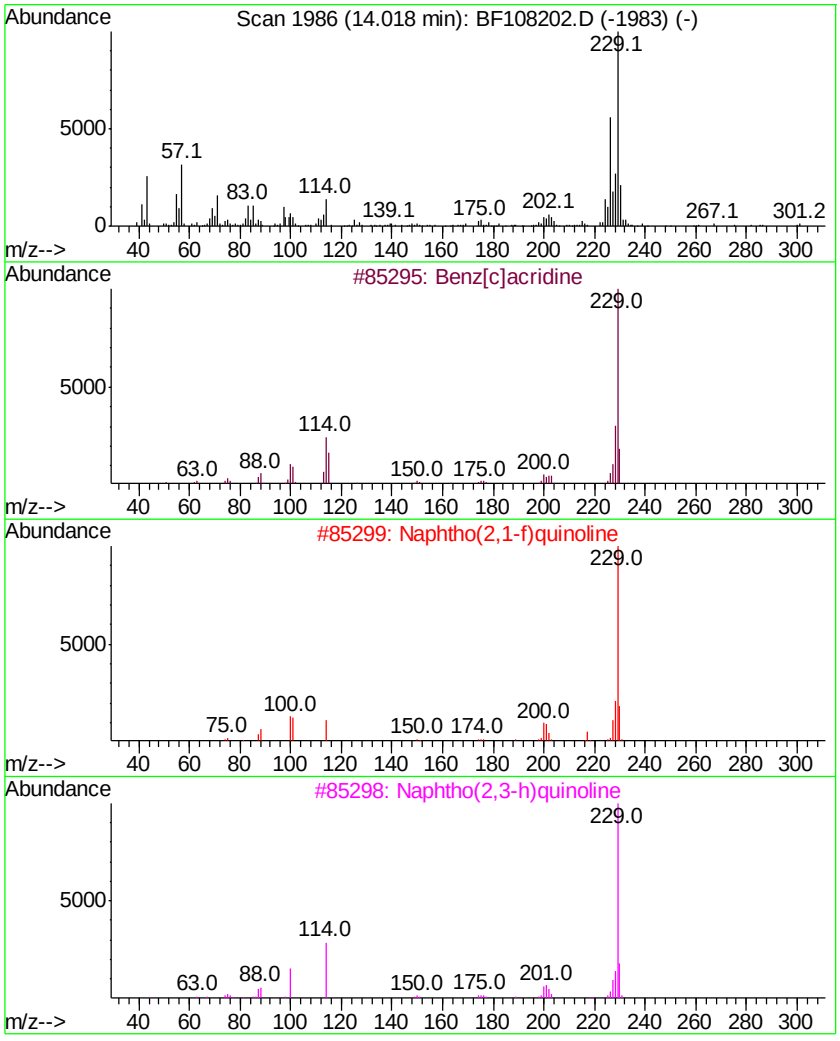
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

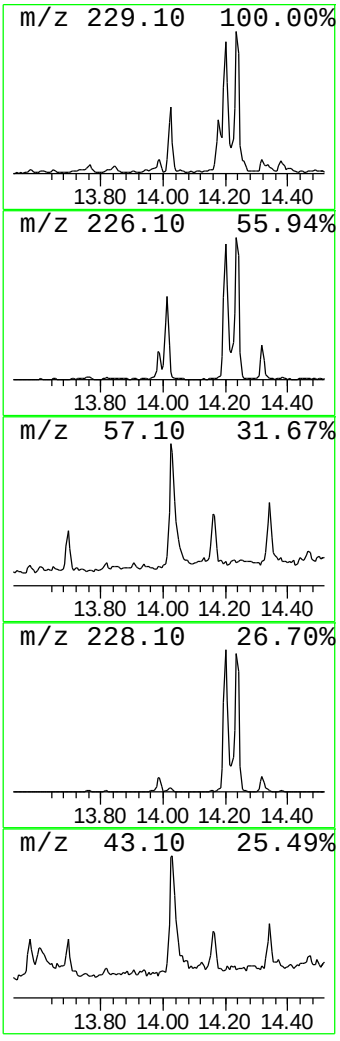
****

Peak Number 13 Benz[c]acridine Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.02	4.87 ng	645379	Chrysene-d12	14.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	60
2	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	47
3	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	46
4	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	30
5	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	30





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

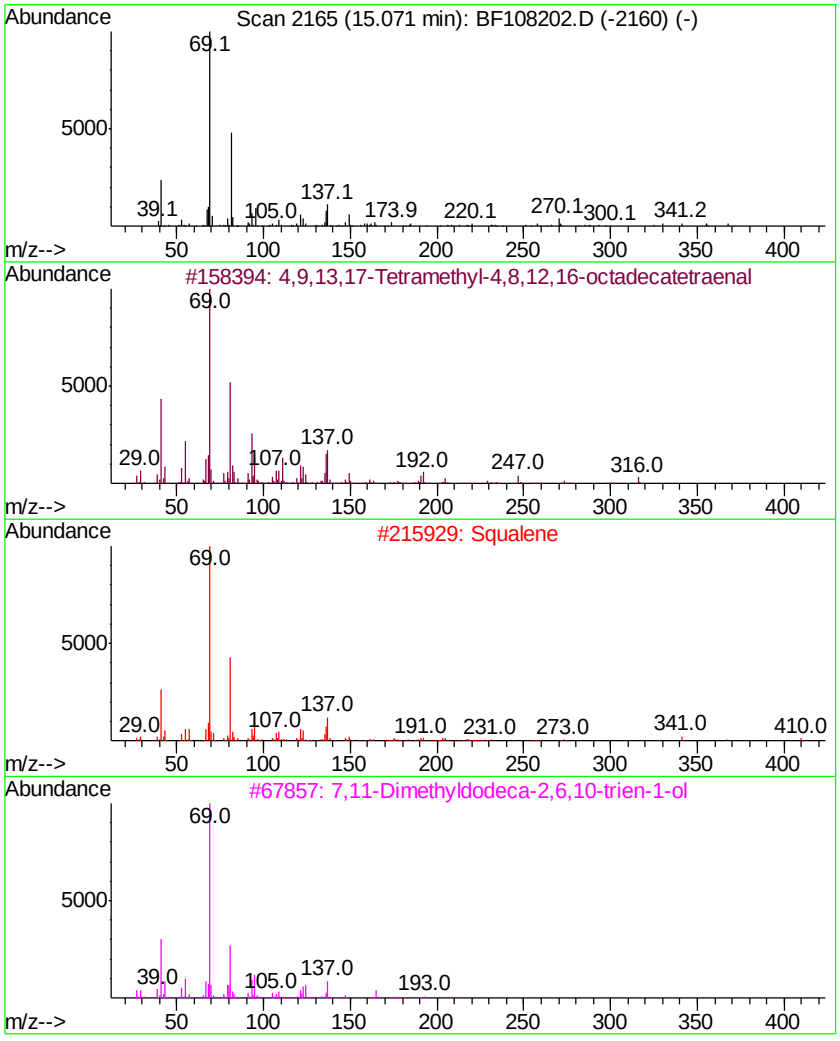
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

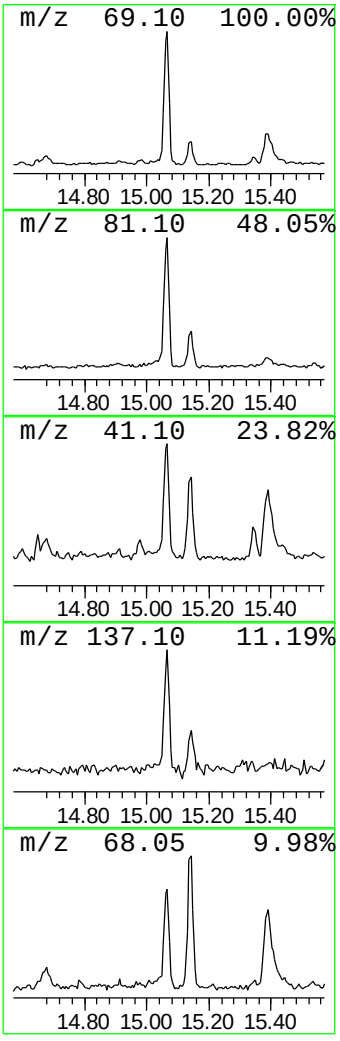
****

Peak Number 14 4,9,13,17-Tetramethyl-4,8,1... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	7.36 ng	375755	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	83
2	Squalene	410	C30H50	000111-02-4	83
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72
4	1,5-Heptadiene, 3,3,6-trimethyl-	138	C10H18	035387-63-4	53
5	2,6-Octadiene, 4-methyl-	124	C9H16	074498-94-5	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

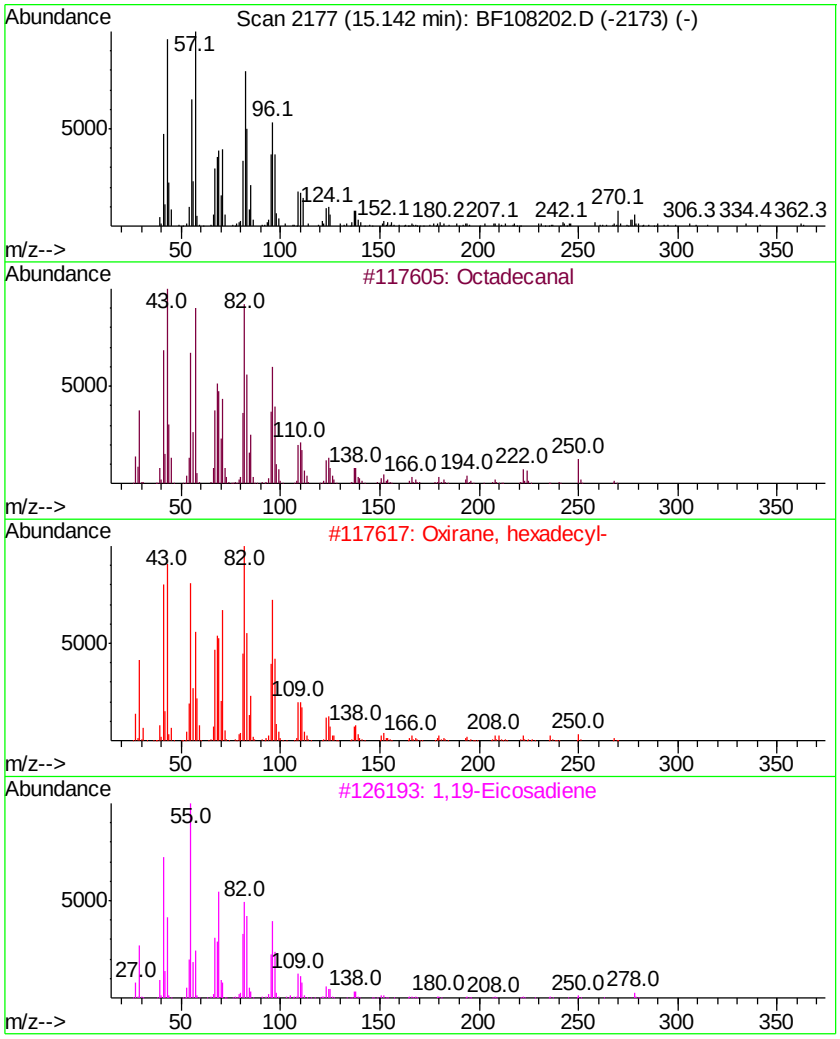
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

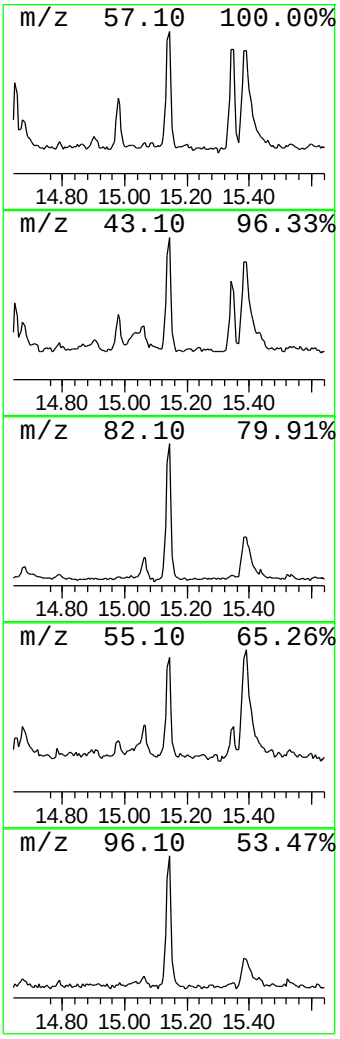
****

Peak Number 15 Octadecanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	9.97 ng	508626	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	96
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	94
3	1,19-Eicosadiene	278	C20H38	014811-95-1	94
4	1,21-Docosadiene	306	C22H42	053057-53-7	93
5	Z-2-Octadecen-1-ol	268	C18H36O	1000131-11-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

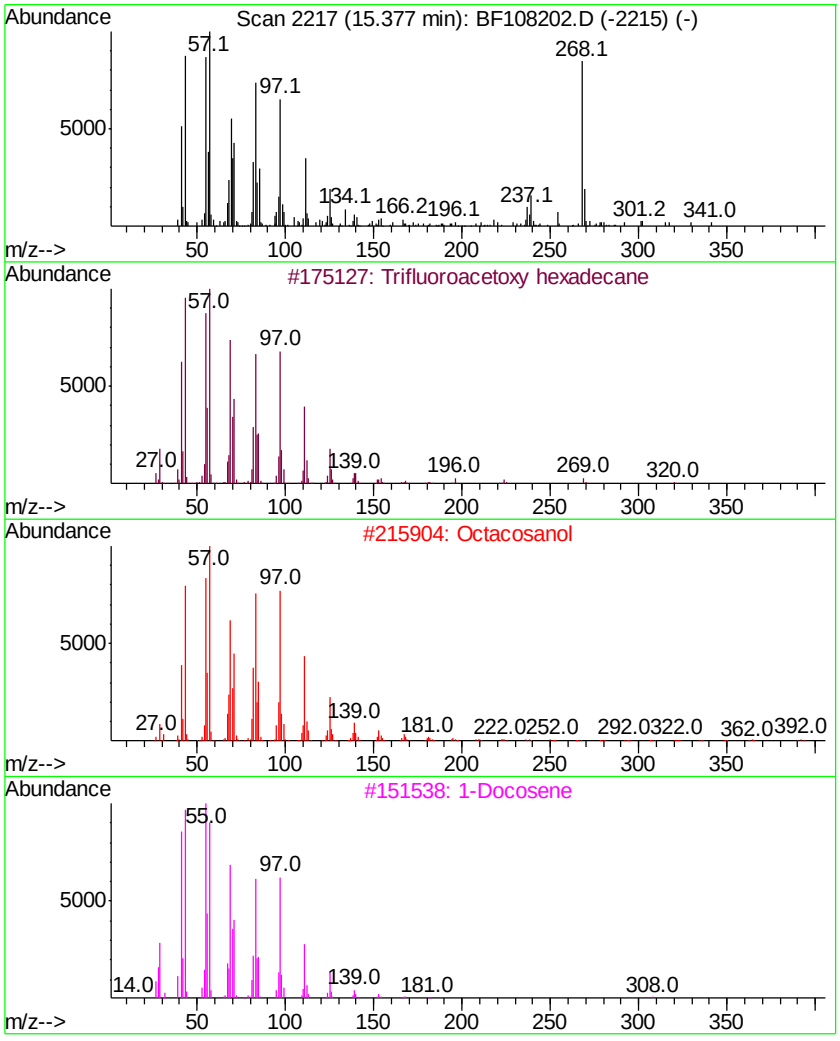
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

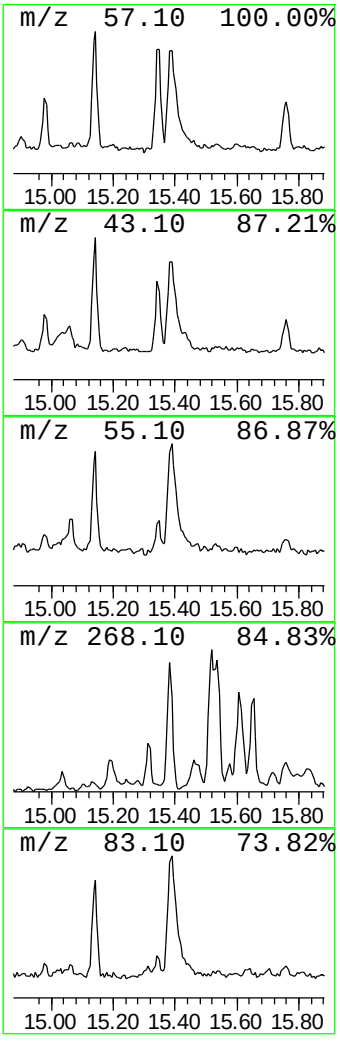
****

Peak Number 16 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.38	10.01 ng	510819	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	86
2	Octacosanol	410	C28H58O	000557-61-9	86
3	1-Docosene	308	C22H44	001599-67-3	70
4	Cyclotetracosane	336	C24H48	000297-03-0	70
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

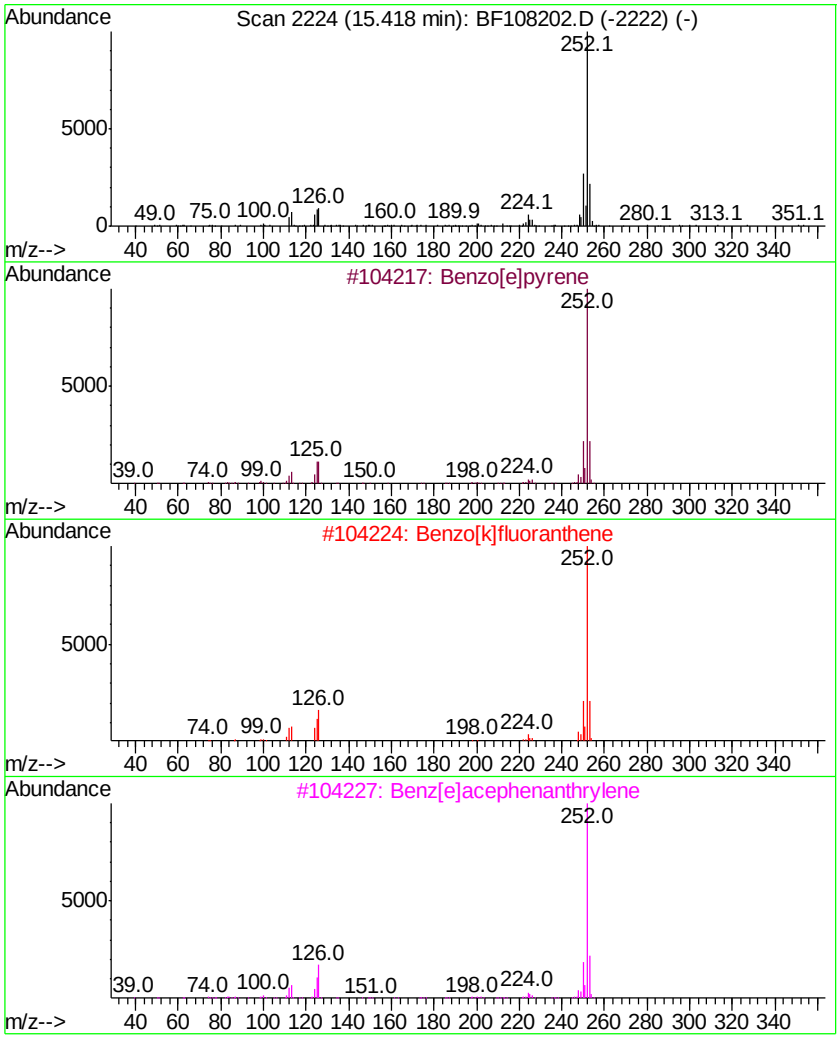
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

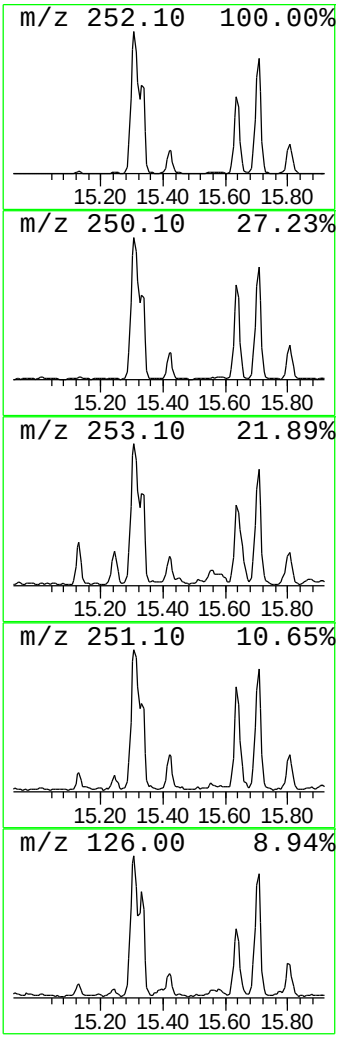
****

Peak Number 17 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.42	6.01 ng	306698	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

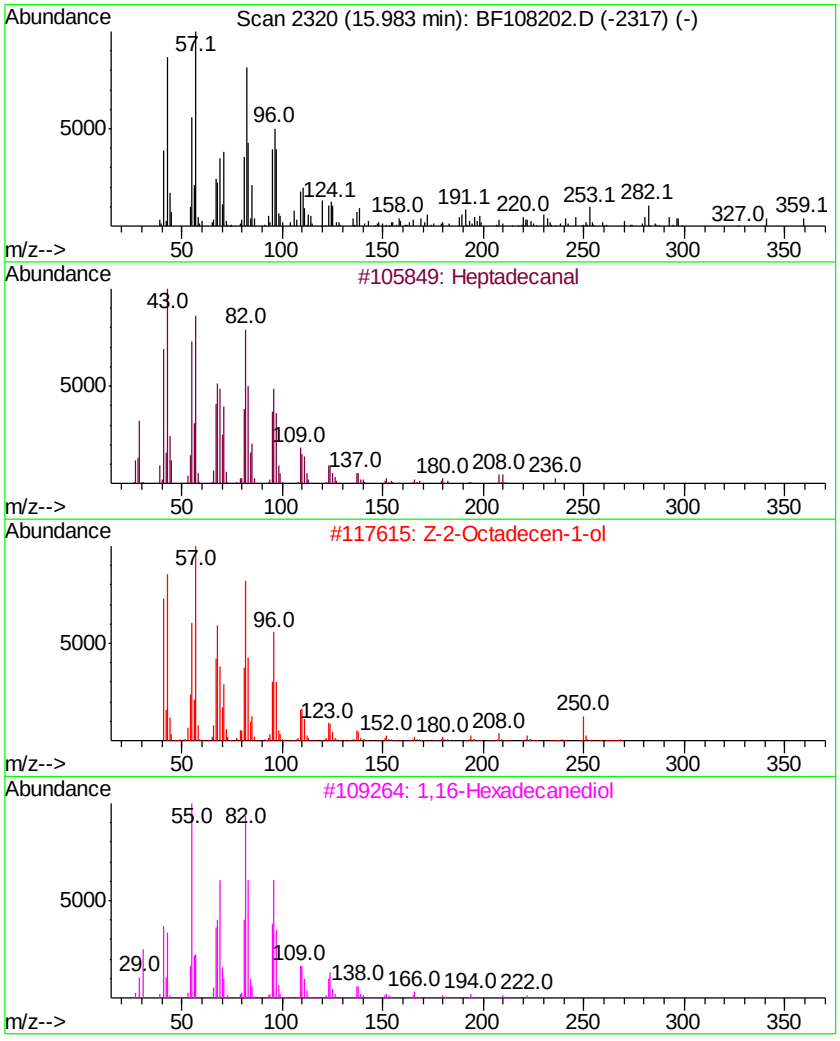
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

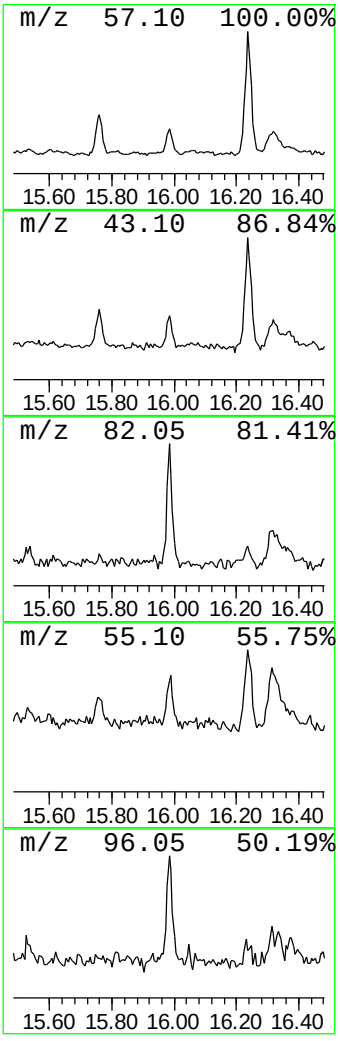
****

Peak Number 19 Heptadecanal Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.98	2.92 ng	148886	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecanal	254	C17H34O	1000376-70-0	86
2	Z-2-Octadecen-1-ol	268	C18H36O	1000131-11-0	86
3	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	80
4	Hexadecanal	240	C16H32O	000629-80-1	72
5	E-11(13-Methyl)tetradecen-1-ol a...	268	C17H32O2	1000130-80-4	68





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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

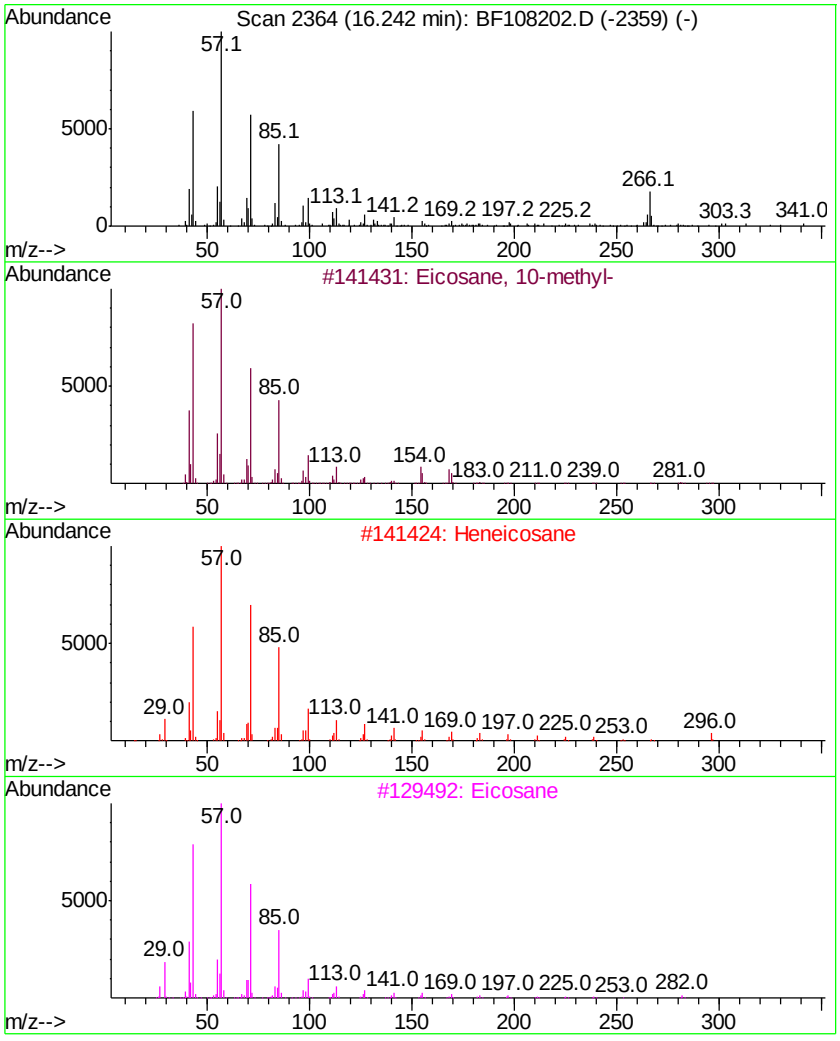
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

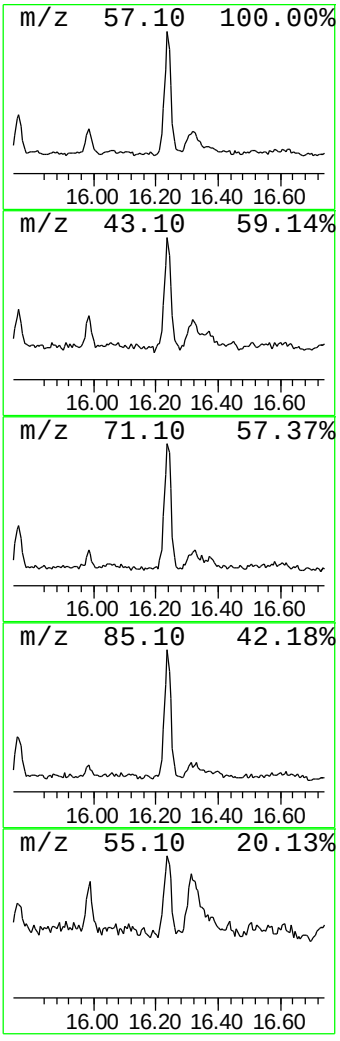
****

Peak Number 20 Eicosane, 10-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.24	6.59 ng	336229	Perylene-d12	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	90
2	Heneicosane	296	C21H44	000629-94-7	90
3	Eicosane	282	C20H42	000112-95-8	83
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	72
5	Octacosane	394	C28H58	000630-02-4	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081618\
Data File : BF108202.D
Acq On : 16 Aug 2018 18:31
Operator : JU/SJ
Sample : J4499-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP(0-1)

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
2-Pentanone, 4-hy...	5.26	3.9	ng	191400	1	7.02	988939	20.0
unknown6.78	6.78	71.8	ng	3548070	1	7.02	988939	20.0
Phenanthrene, 2-m...	12.06	4.9	ng	255262	4	11.55	1043210	20.0
Phenanthrene, 1-m...	12.09	5.4	ng	282092	4	11.55	1043210	20.0
4H-Cyclopenta[def...	12.17	7.5	ng	392358	4	11.55	1043210	20.0
9,10-Anthracenedione	12.38	5.5	ng	286924	4	11.55	1043210	20.0
Phenanthrene, 1,7...	12.61	3.3	ng	171311	4	11.55	1043210	20.0
11H-Benzo[b]fluorene	13.34	2.8	ng	375647	5	14.21	2651660	20.0
2-Phenanthrenol, ...	13.46	3.3	ng	433885	5	14.21	2651660	20.0
unknown13.57	13.57	3.4	ng	448406	5	14.21	2651660	20.0
Benz[c]acridine	14.02	4.9	ng	645379	5	14.21	2651660	20.0
4,9,13,17-Tetrame...	15.07	7.4	ng	375755	6	15.77	1020570	20.0
Octadecanal	15.14	10.0	ng	508626	6	15.77	1020570	20.0
Trifluoroacetoxy ...	15.38	10.0	ng	510819	6	15.77	1020570	20.0
Benzo[e]pyrene	15.42	6.0	ng	306698	6	15.77	1020570	20.0
Heptadecanal	15.98	2.9	ng	148886	6	15.77	1020570	20.0
Eicosane, 10-methyl-	16.24	6.6	ng	336229	6	15.77	1020570	20.0