LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

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-BF102318.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	2.275	28	32	49	rVB	186959	289094	12.32%	0.799%
2	5.192	525	528	537	rBV	63951	72434	3.09%	0.200%
3	5.581	590	594	604	rVB	1554713	1445606	61.62%	3.993%
4	6.586	760	765	774	rBV	1525013	1590592	67.80%	4.394%
5	6.734	786	790	793	rBV	1891772	1534608	65.41%	4.239%
6	6.969	826	830	833	rBV	961359	844005	35.97%	2.331%
7	7.122	852	856	859	rBV	1460545	1174163	50.05%	3.243%
8	7.528	921	925	928	rBV	998022	895971	38.19%	2.475%
9	8.251	1044	1048	1050	rBV	1212585	1031756	43.98%	2.850%
10	8.269	1050	1051	1054	rVB	173177	123176	5.25%	0.340%
11	8.963	1166	1169	1172	rBV	172647	139004	5.92%	0.384%
12	9.063	1181	1186	1192	rBV	180266	157322	6.71%	0.435%
13	9.322	1226	1230	1239	rBV	1952656	1568599	66.86%	4.333%
14	9.392	1239	1242	1245	rVV	59665	48886	2.08%	0.135%
15	9.592	1271	1276	1280	rBV	72424	105140	4.48%	0.290%
16	9.663	1284	1288	1291	rBV	126734	126273	5.38%	0.349%
17	9.692	1291	1293	1294	rVV	64969	52391	2.23%	0.145%
18	9.716	1294	1297	1304	rVB	169755	197019	8.40%	0.544%
19	9.780	1304	1308	1310	rBV2	63063	57488	2.45%	0.159%
20	9.869	1318	1323	1329	rBV	175043	172340	7.35%	0.476%
21	9.922	1329	1332	1335	rVB	77119	64848	2.76%	0.179%
22	10.010	1344	1347	1350	rVV	1226376	1035365	44.13%	2.860%
23	10.039	1350	1352	1356	rVV	231071	207778	8.86%	0.574%
24	10.110	1360	1364	1368	rBV4	27861	38360	1.64%	0.106%
25	10.210	1378	1381	1385	rVV2	127351	143127	6.10%	0.395%
26	10.245	1385	1387	1391	rVB	64727	56513	2.41%	0.156%
27	10.322	1396	1400	1403	rBV3	60339	68896	2.94%	0.190%
28	10.422	1412	1417	1421	rVB2	88185	111641	4.76%	0.308%
29	10.557	1437	1440	1446	rVB	270963	249870	10.65%	0.690%
30	10.645	1453	1455	1457	rVV	56595	47640	2.03%	0.132%
31	10.798	1477	1481	1485	rBV	953913	831055	35.42%	2.296%
32	10.898	1495	1498	1507	rVB3	90067	161998	6.90%	0.447%
33	11.104	1528	1533	1536	rBV2	66926	86878	3.70%	0.240%
34	11.186	1544	1547	1550	rVB2	44999	43787	1.87%	0.121%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.227	1550	1554	1556	rBV2	27506	42061	1.79%	0.116%
36	11.304	1564	1567	1571	rVB2	43876	46524	1.98%	0.129%
37	11.345	1571	1574	1577	rBV	103165	89562	3.82%	0.247%
38	11.398	1581	1583	1586	rVB	120058	90136	3.84%	0.249%
39	11.504	1597	1601	1603	rBV	1065679	973260	41.48%	2.688%
40	11.527	1603	1605	1608	rVV	1370703	1000723	42.65%	2.764%
41	11.580	1608	1614	1616	rVV	365615	340594	14.52%	0.941%
42	11.610	1616	1619	1622	rVV2	57325	66689	2.84%	0.184%
43	11.704	1633	1635	1637	rBV	53660	50946	2.17%	0.141%
44	11.727	1637	1639	1644	rVV	125151	137768	5.87%	0.381%
45	11.774	1644	1647	1649	rVV	74522	67123	2.86%	0.185%
46	11.833	1654	1657	1661	rVB	69647	65206	2.78%	0.180%
47	11.916	1668	1671	1675	rBV	39723	40336	1.72%	0.111%
48	12.004	1683	1686	1688	rBV	246368	217502	9.27%	0.601%
49	12.033	1688	1691	1694	rVB	300920	269956	11.51%	0.746%
50	12.080	1695	1699	1702	rBV	137267	134107	5.72%	0.370%
51	12.116	1702	1705	1708	rVV2	394523	459672	19.59%	1.270%
52	12.139	1708	1709	1713	rVB	156936	90621	3.86%	0.250%
53	12.180	1713	1716	1719	rBV2	79920	67406	2.87%	0.186%
54	12.233	1722	1725	1728	rVB2	45232	45220	1.93%	0.125%
55	12.298	1733	1736	1738	rVV	166407	149491	6.37%	0.413%
56	12.327	1738	1741	1747	rVB2	101382	113287	4.83%	0.313%
57	12.445	1759	1761	1763	rVV	75202	62232	2.65%	0.172%
58	12.480	1764	1767	1769	rVV	95109	89314	3.81%	0.247%
59	12.504	1769	1771	1773	rVB	91115	64443	2.75%	0.178%
60	12.551	1776	1779	1782	rBV	206831	248848	10.61%	0.687%
61	12.592	1784	1786	1788	rVV2	118179	122617	5.23%	0.339%
62	12.645	1792	1795	1799	rBV3	137581	174185	7.42%	0.481%
63	12.721	1804	1808	1811	rBV	2141746	1902233	81.08%	5.254%
64	12.757	1812	1814	1816	rBV	51660	47026	2.00%	0.130%
65	12.780	1816	1818	1821	rVB	60118	45225	1.93%	0.125%
66	12.815	1821	1824	1826	rBV	66122	57939	2.47%	0.160%
67	12.874	1831	1834	1836	rBV	90414	78238	3.33%	0.216%
68	12.951	1841	1847	1852	rBV	1899271	2346167	100.00%	6.481%
69	12.998	1852	1855	1859	rVB	154684	160467	6.84%	0.443%
70	13.086	1862	1870	1872	rBV	1333845	1285890	54.81%	3.552%
71	13.104	1872	1873	1877	rVB3	110207	98139	4.18%	0.271%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.163	1879	1883	1888	rBV2	177149	306820	13.08%	0.848%
73	13.257	1895	1899	1900	rBV4	140597	185561	7.91%	0.513%
74	13.274	1900	1902	1905	rVB	359731	320730	13.67%	0.886%
75	13.345	1911	1914	1916	rVB	268498	231338	9.86%	0.639%
76	13.380	1916	1920	1923	rBV2	266571	287195	12.24%	0.793%
77	13.410	1923	1925	1927	rVB2	47568	43071	1.84%	0.119%
78	13.474	1933	1936	1939	rBV	185703	156122	6.65%	0.431%
79	13.504	1939	1941	1944	rVB	161059	153521	6.54%	0.424%
80	13.645	1963	1965	1968	rBV4	52494	58637	2.50%	0.162%
81	13.757	1982	1984	1986	rBV	68787	63619	2.71%	0.176%
82	13.786	1987	1989	1993	rVB	138909	149658	6.38%	0.413%
83	13.898	2004	2008	2011	rBV2	175574	215325	9.18%	0.595%
84	13.927	2011	2013	2015	rVB	138977	98937	4.22%	0.273%
85	13.951	2015	2017	2018	rBV	142771	116562	4.97%	0.322%
86	14.145	2046	2050	2054	rBV2	1228562	1840302	78.44%	5.083%
87	14.180	2054	2056	2062	rVB	949638	804272	34.28%	2.222%
88	14.257	2067	2069	2072	rBV	212827	182088	7.76%	0.503%
89	14.533	2114	2116	2119	rVB	195440	176902	7.54%	0.489%
90	14.568	2120	2122	2125	rVV	115515	94301	4.02%	0.260%
91	14.662	2136	2138	2140	rBV2	104889	87405	3.73%	0.241%
92	14.686	2140	2142	2146	rVB	142359	125666	5.36%	0.347%
93	15.227	2230	2234	2237	rBV	676405	1037103	44.20%	2.865%
94	15.339	2250	2253	2260	rVB	161526	181223	7.72%	0.501%
95	15.551	2285	2289	2295	rVB	415182	544417	23.20%	1.504%
96	15.615	2296	2300	2305	rBV	648459	788299	33.60%	2.177%
97	15.680	2306	2311	2314	rBV2	489020	724666	30.89%	2.002%
98	15.715	2314	2317	2323	rVB2	193676	287032	12.23%	0.793%
99	17.245	2573	2577	2584	rVB3	230712	423636	18.06%	1.170%
100	17.721	2655	2658	2672	rVB	184649	403228	17.19%	1.114%

Sum of corrected areas: 36202412

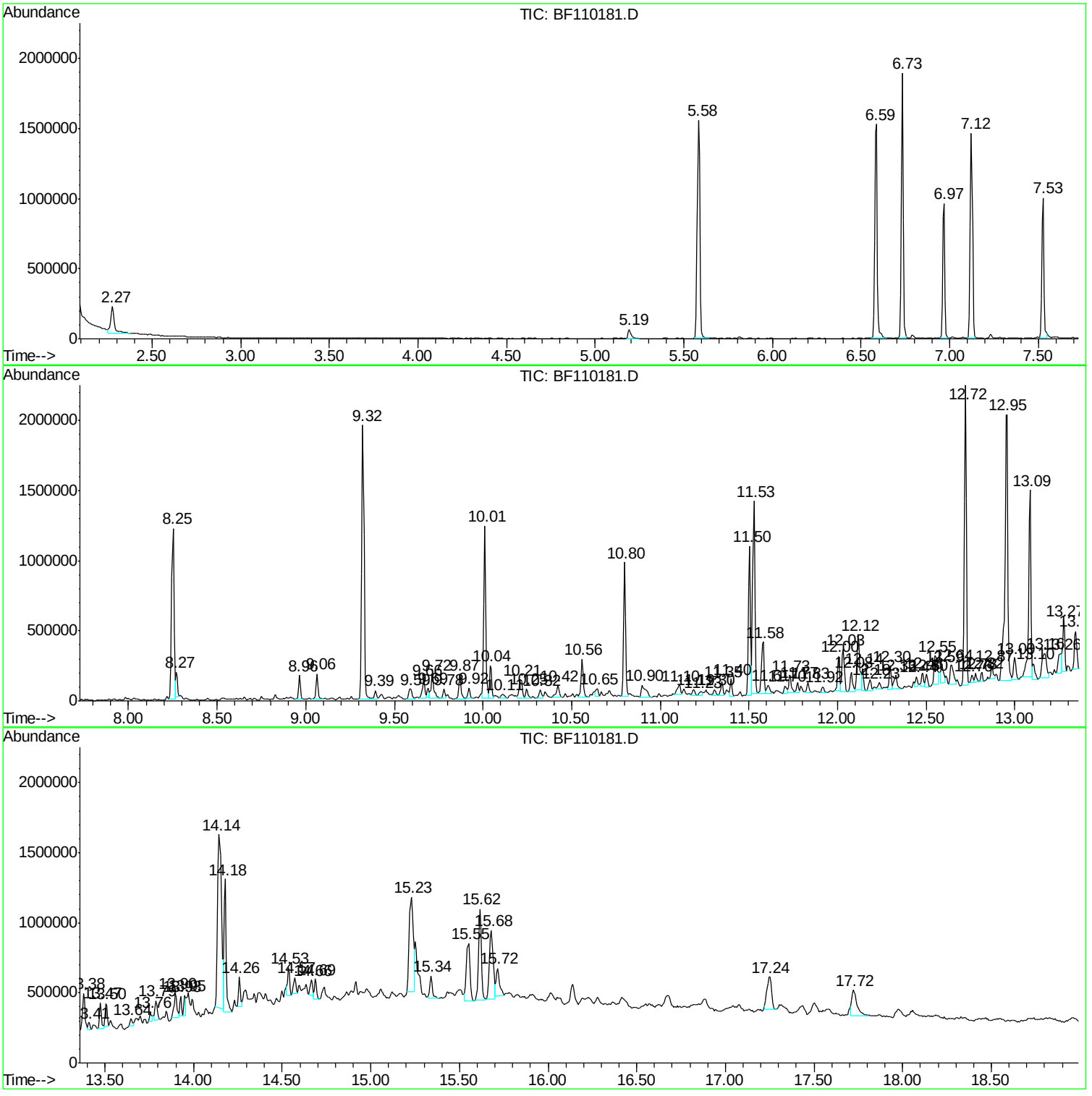
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

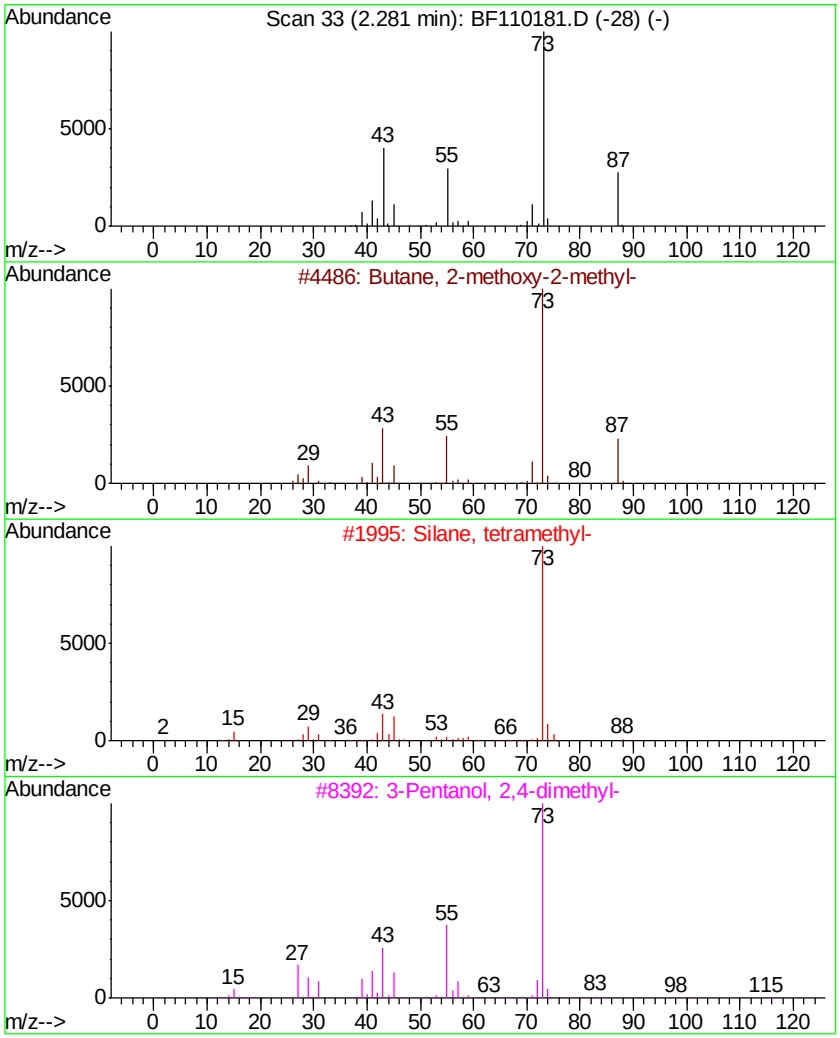
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

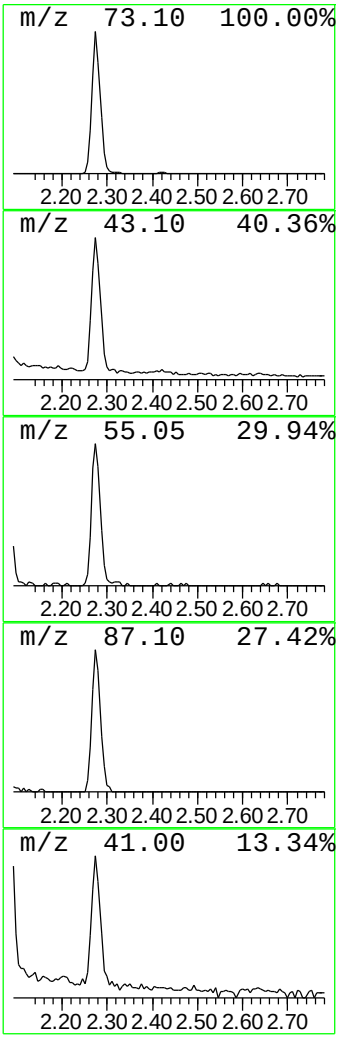
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.28	6.85 ng	289094	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	32
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

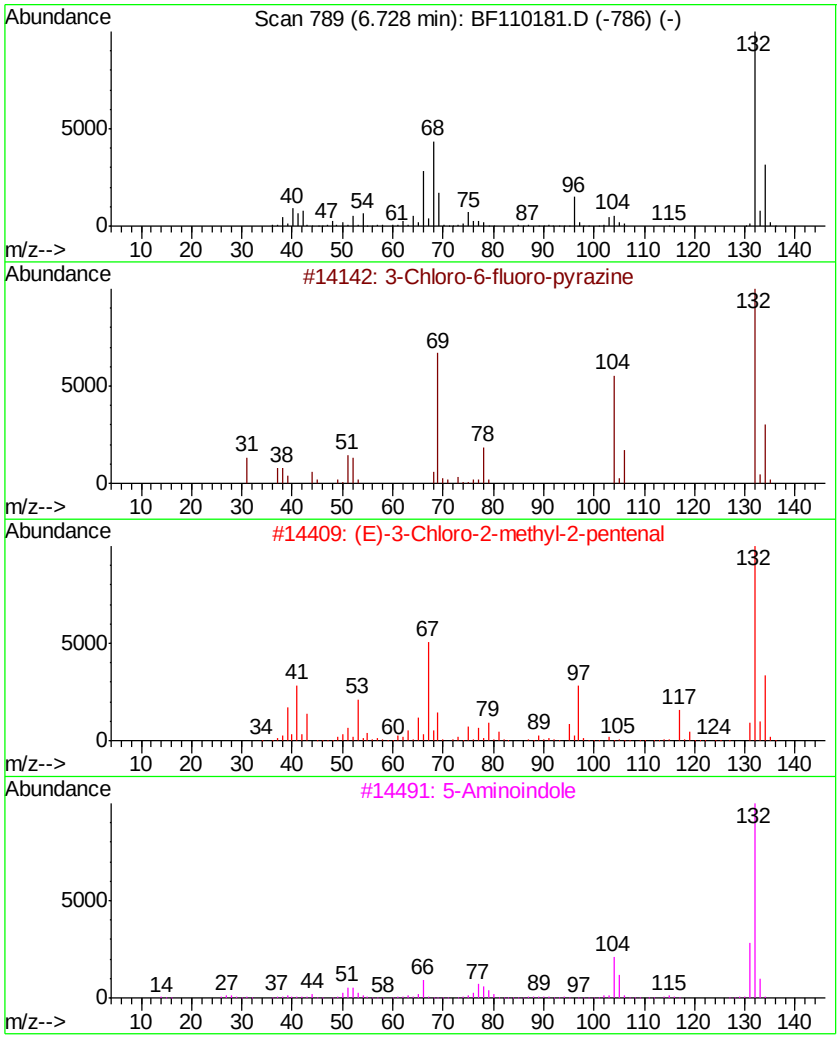
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

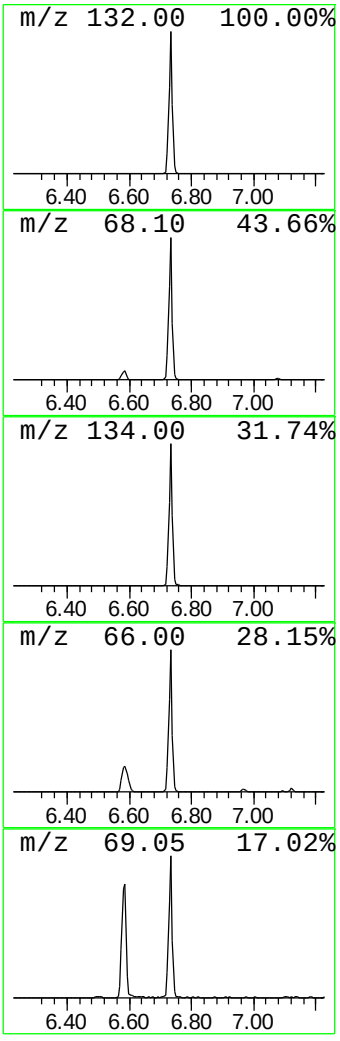
****

Peak Number 2 unknown6.73 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	36.36 ng	1534610	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

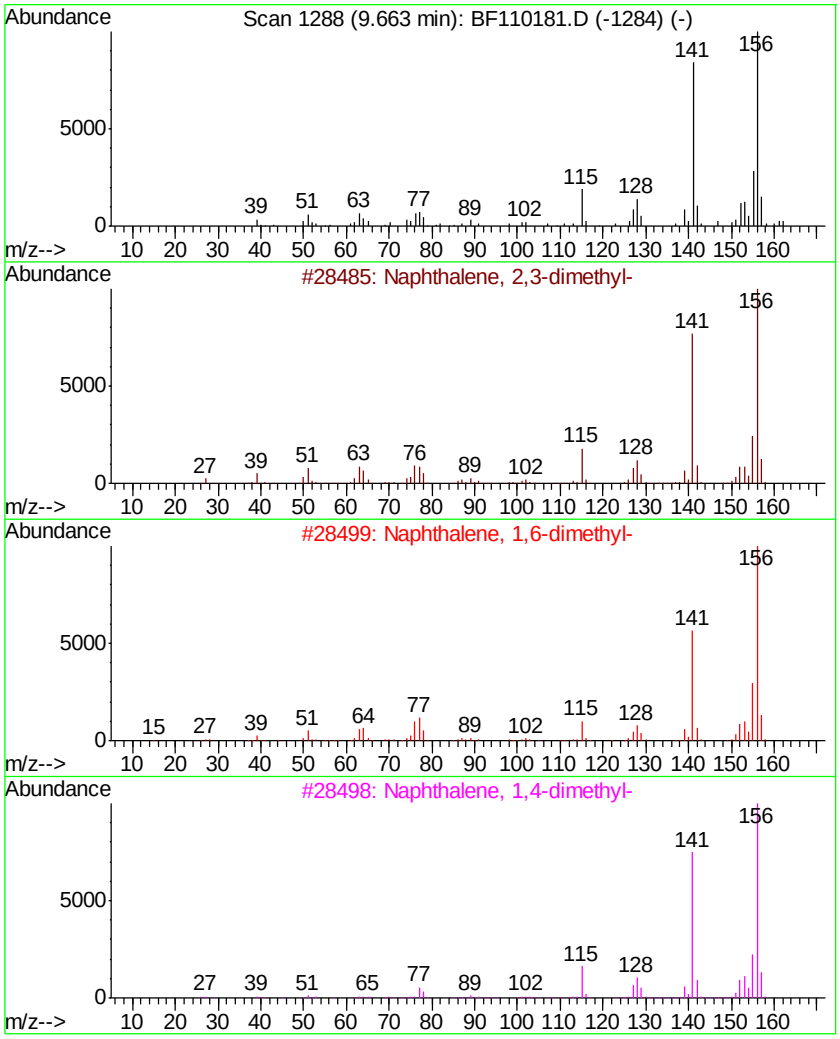
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

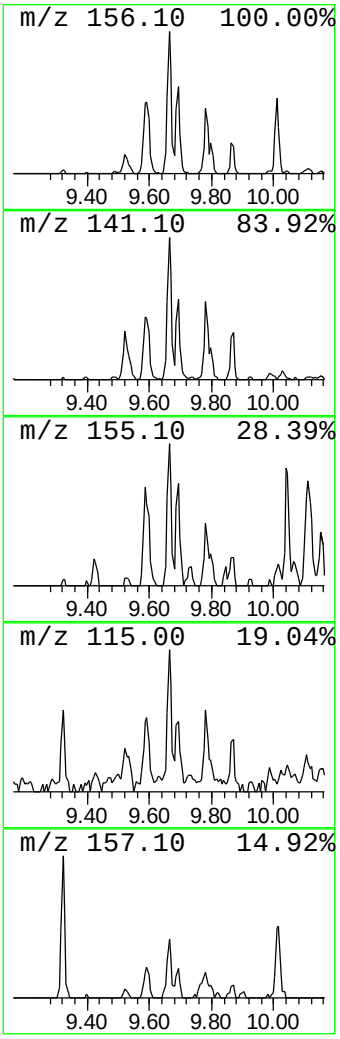
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	2.44 ng	126273	Acenaphthene-d10	10.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

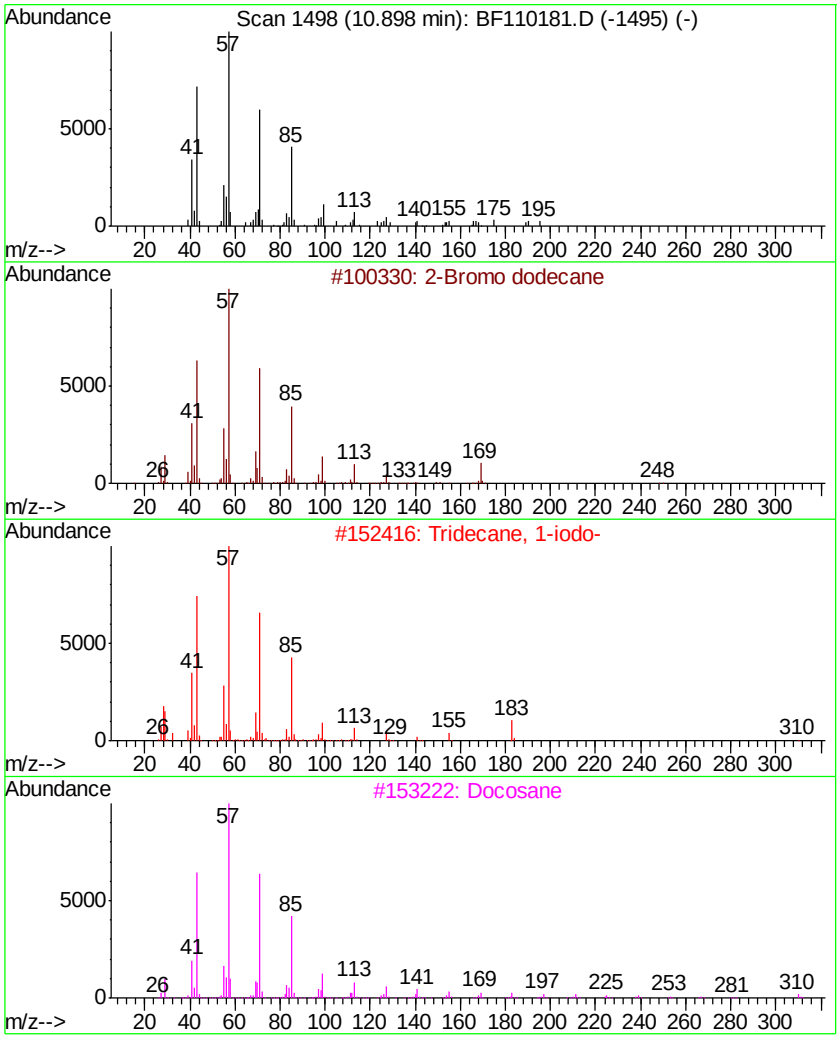
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

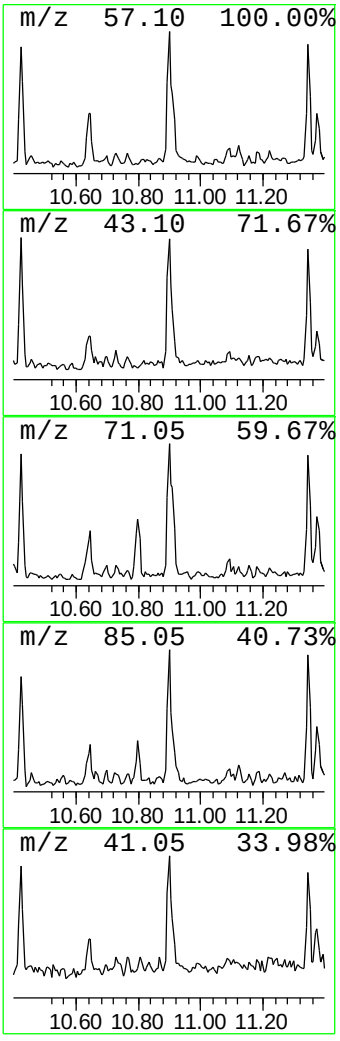
****

Peak Number 5 2-Bromo dodecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	3.33 ng	161998	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	90
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	90
3	Docosane	310	C22H46	000629-97-0	90
4	Heptadecane	240	C17H36	000629-78-7	90
5	Hexadecane	226	C16H34	000544-76-3	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

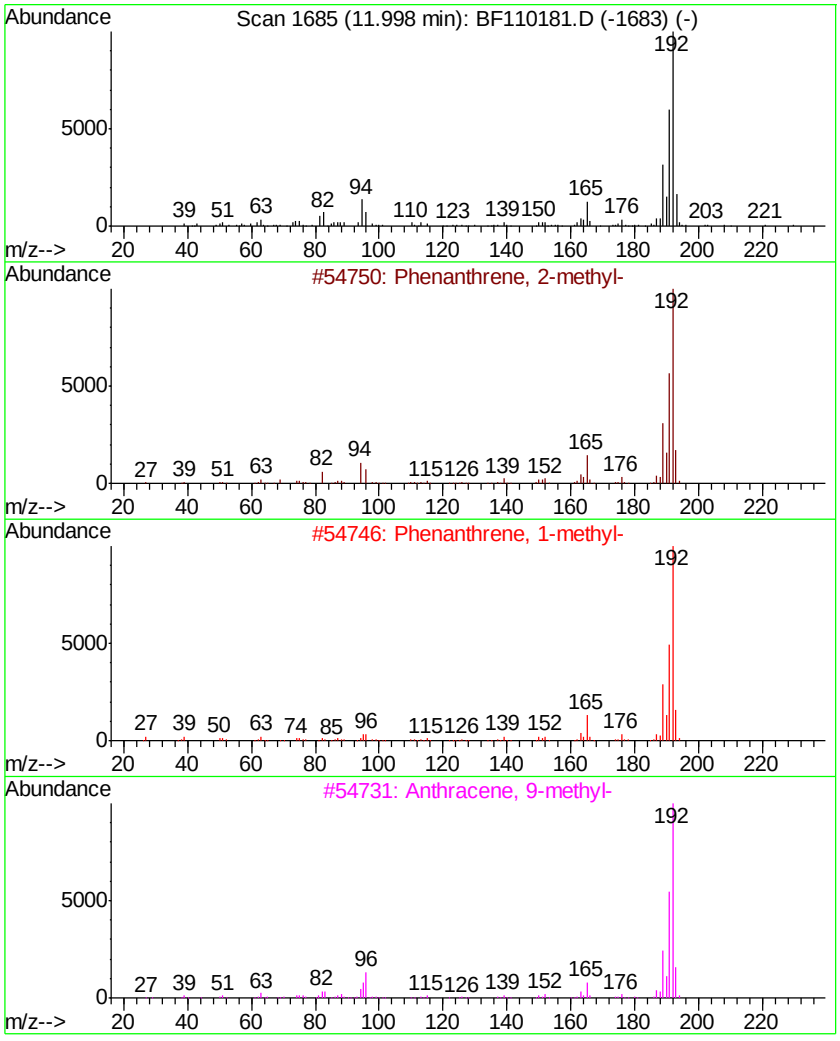
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

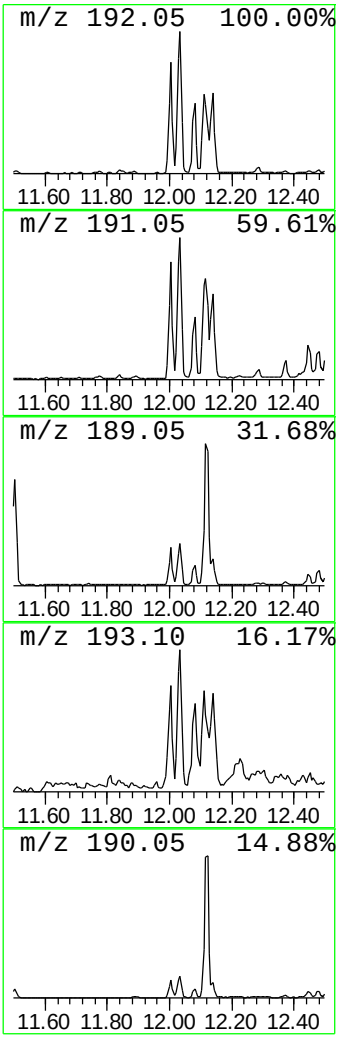
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	4.47 ng	217502	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

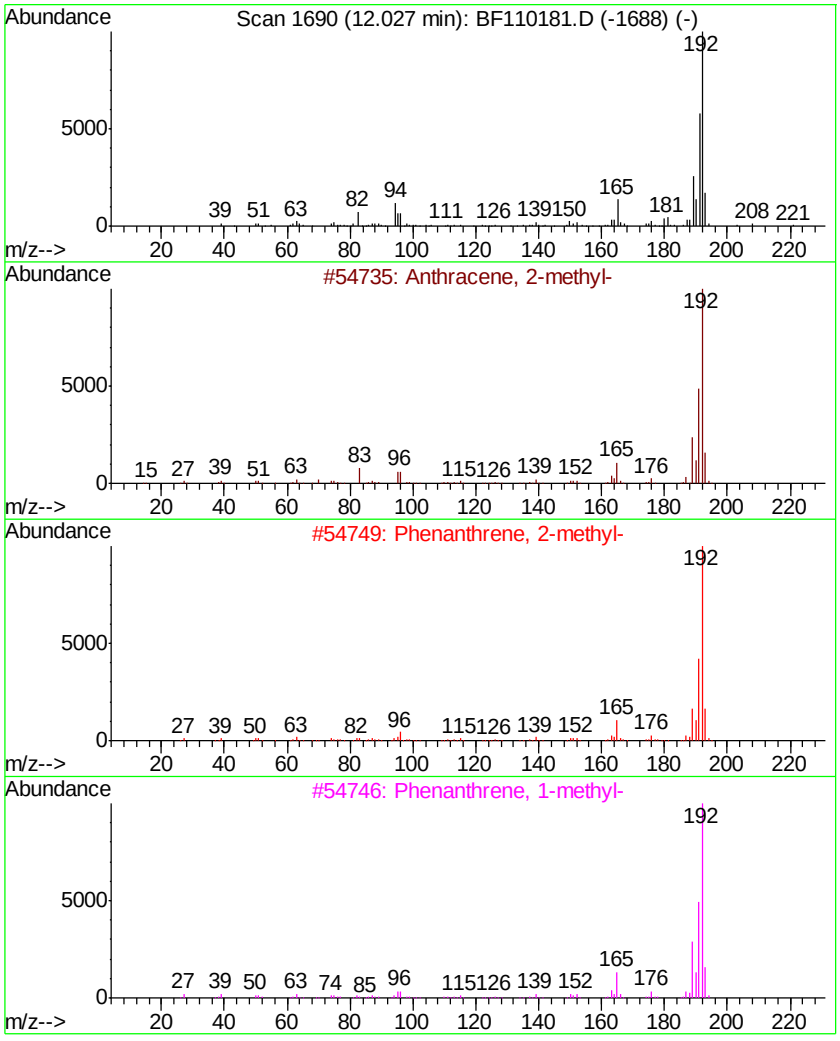
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

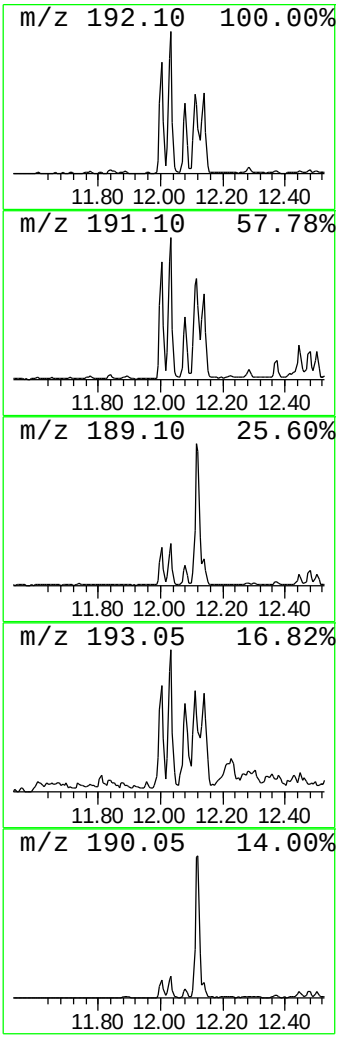
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	5.55 ng	269956	Phenanthrene-d10	11.50

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

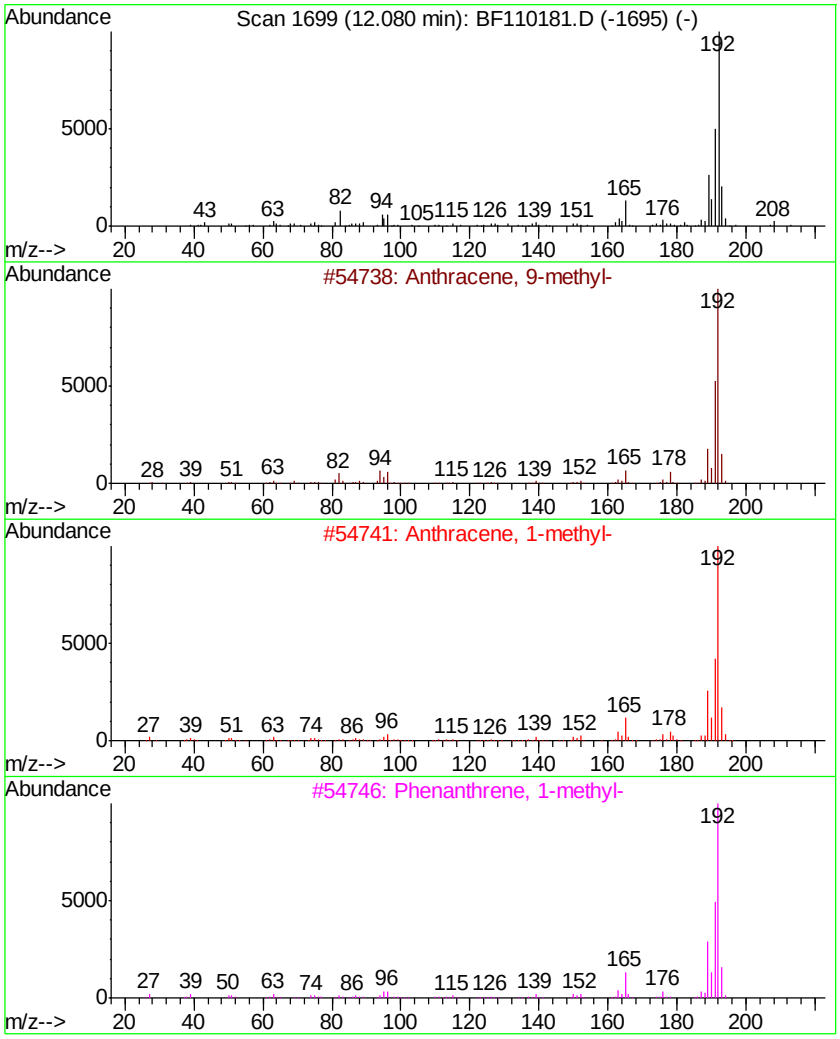
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

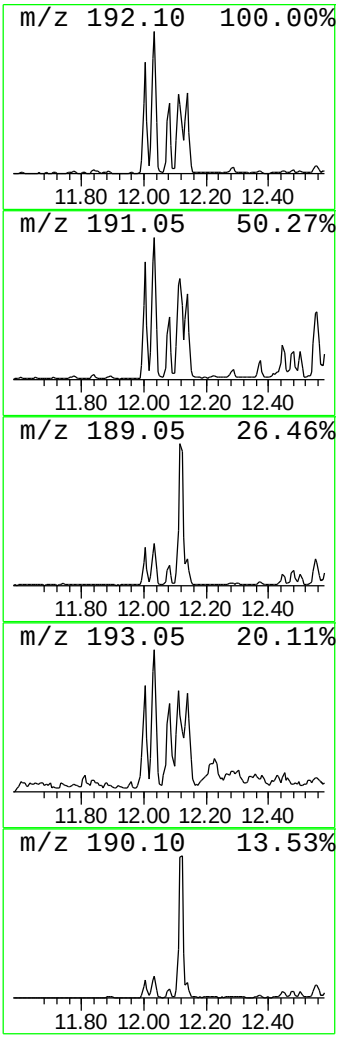
****

Peak Number 8 Anthracene, 9-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	2.76 ng	134107	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

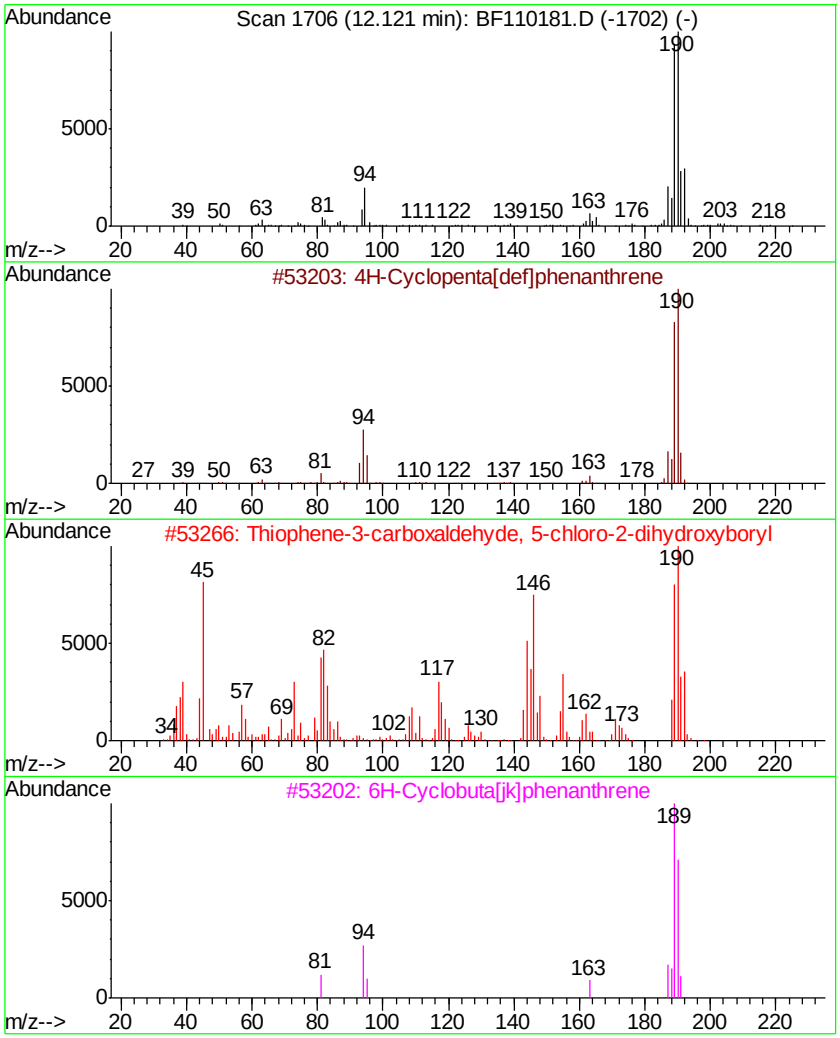
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

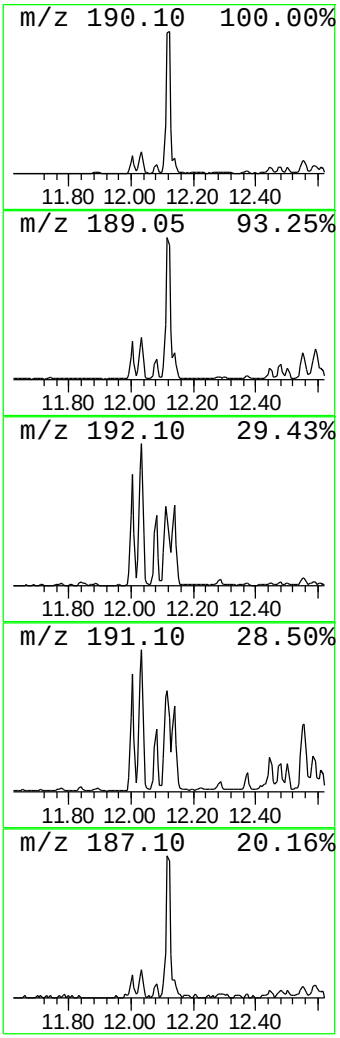
****

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	9.45 ng	459672	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	33





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

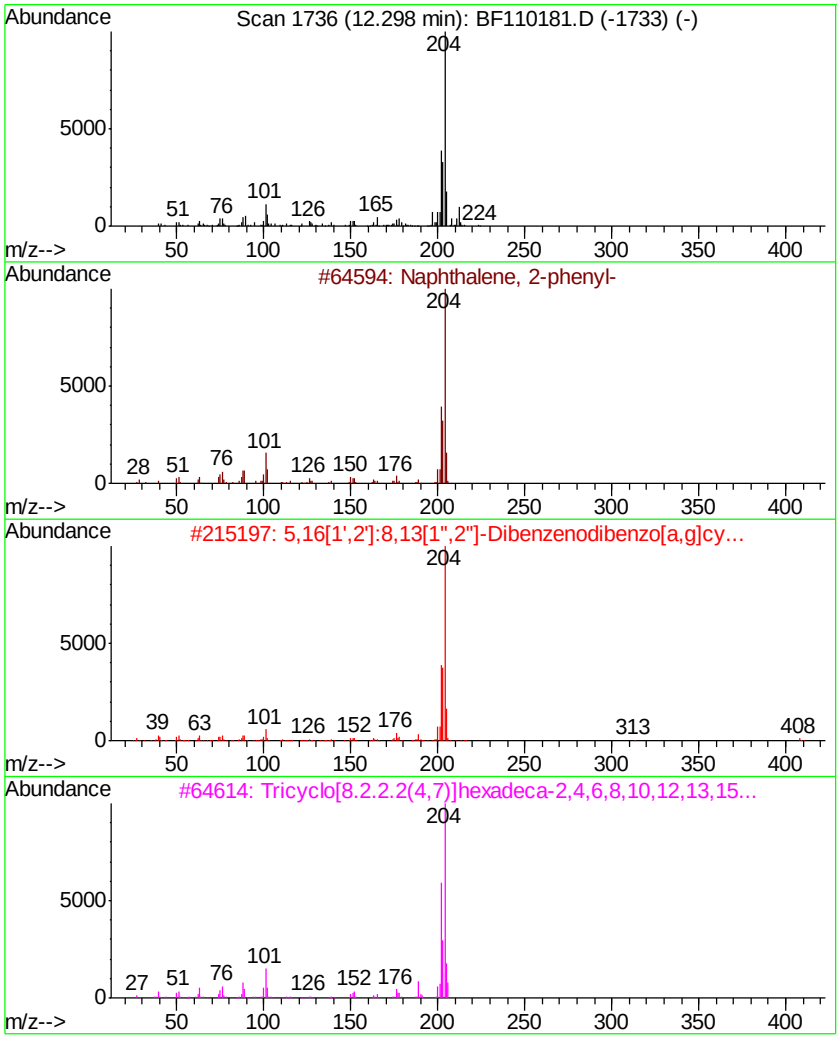
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

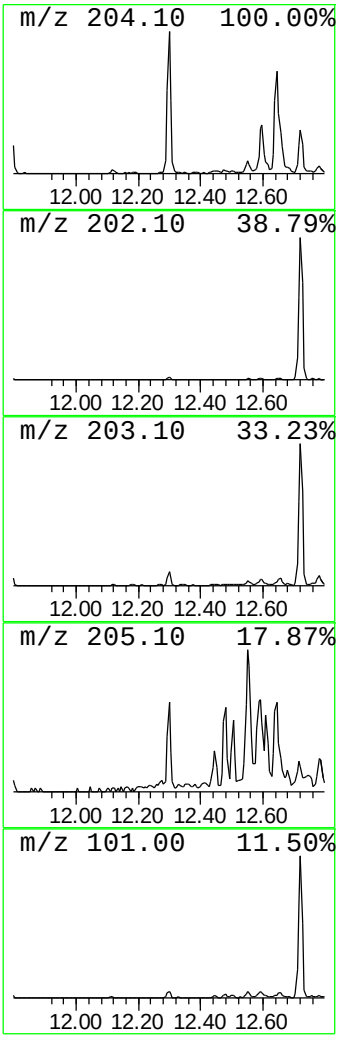
****

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	3.07 ng	149491	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

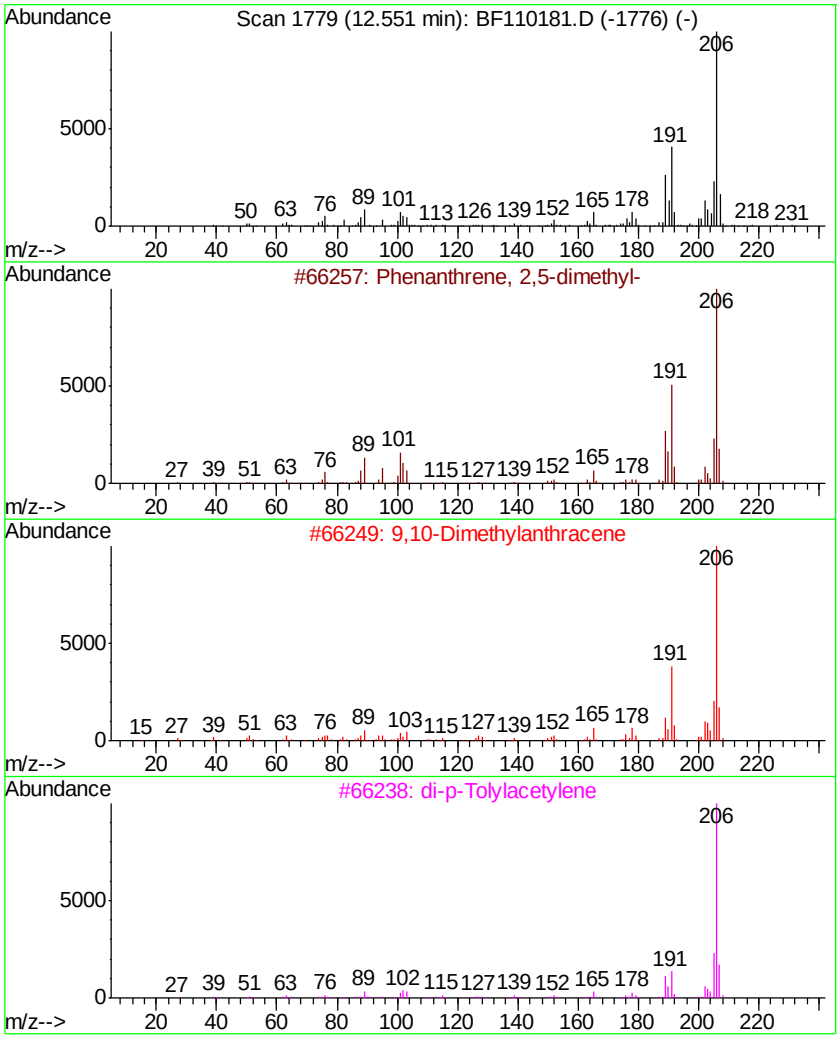
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

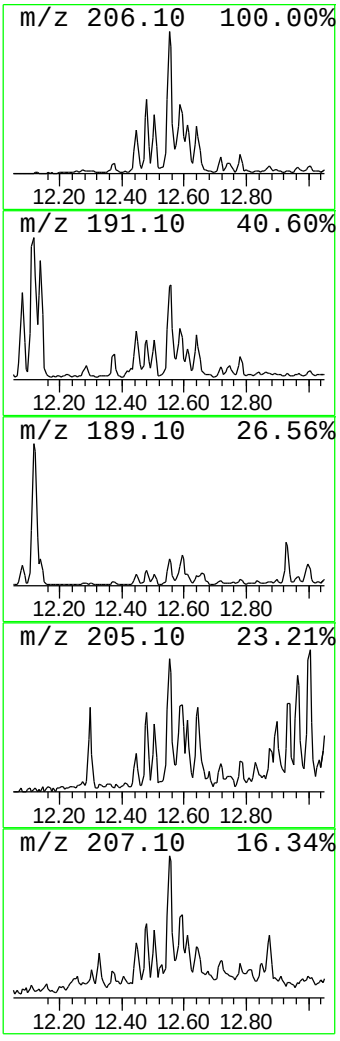
****

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	5.11 ng	248848	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

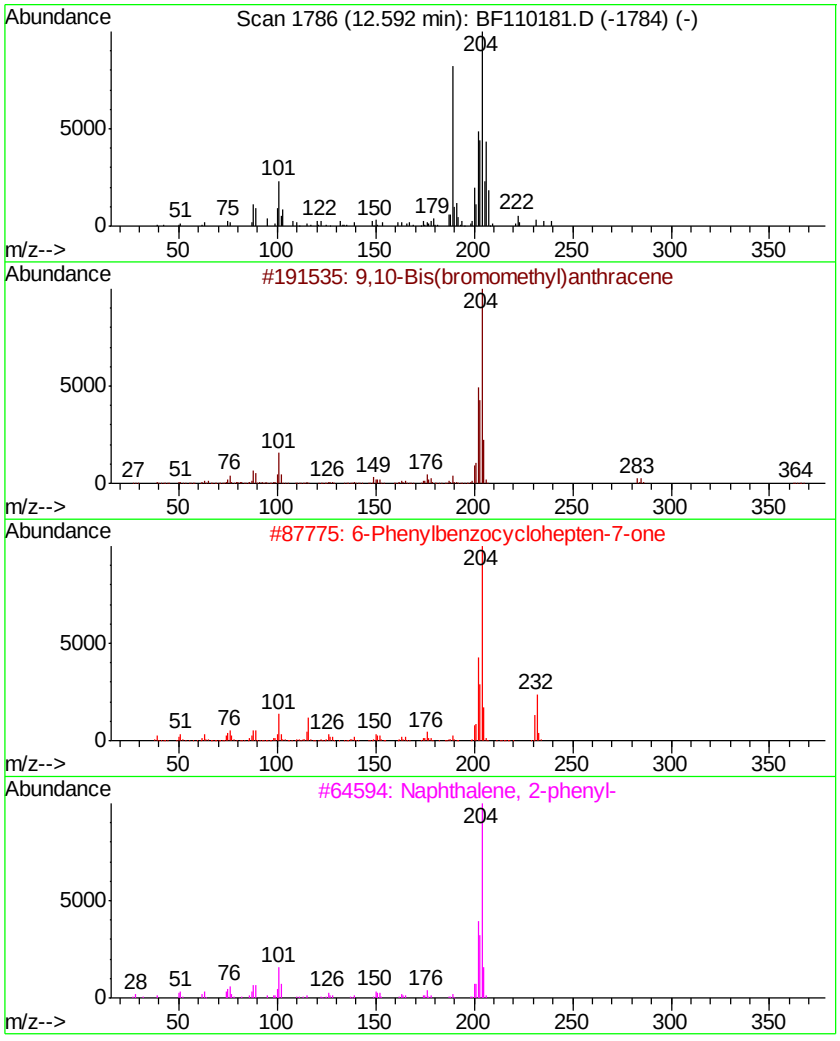
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

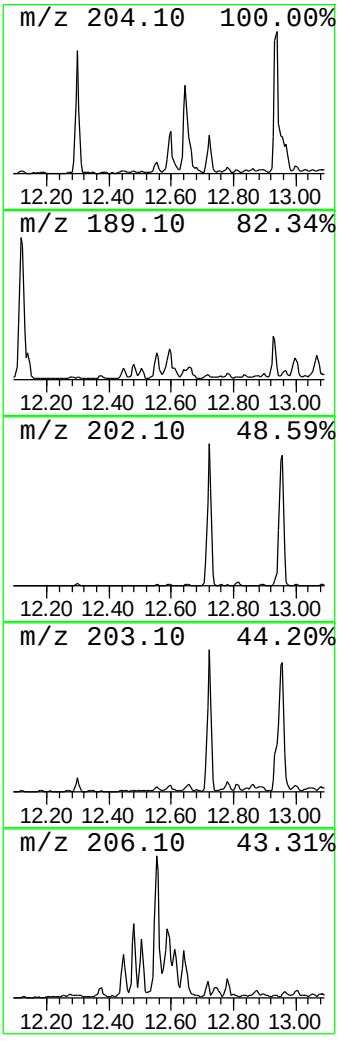
****

Peak Number 12 unknown12.59 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	2.52 ng	122617	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	47
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
5	Levamisole	204	C11H12N2S	014769-73-4	35





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

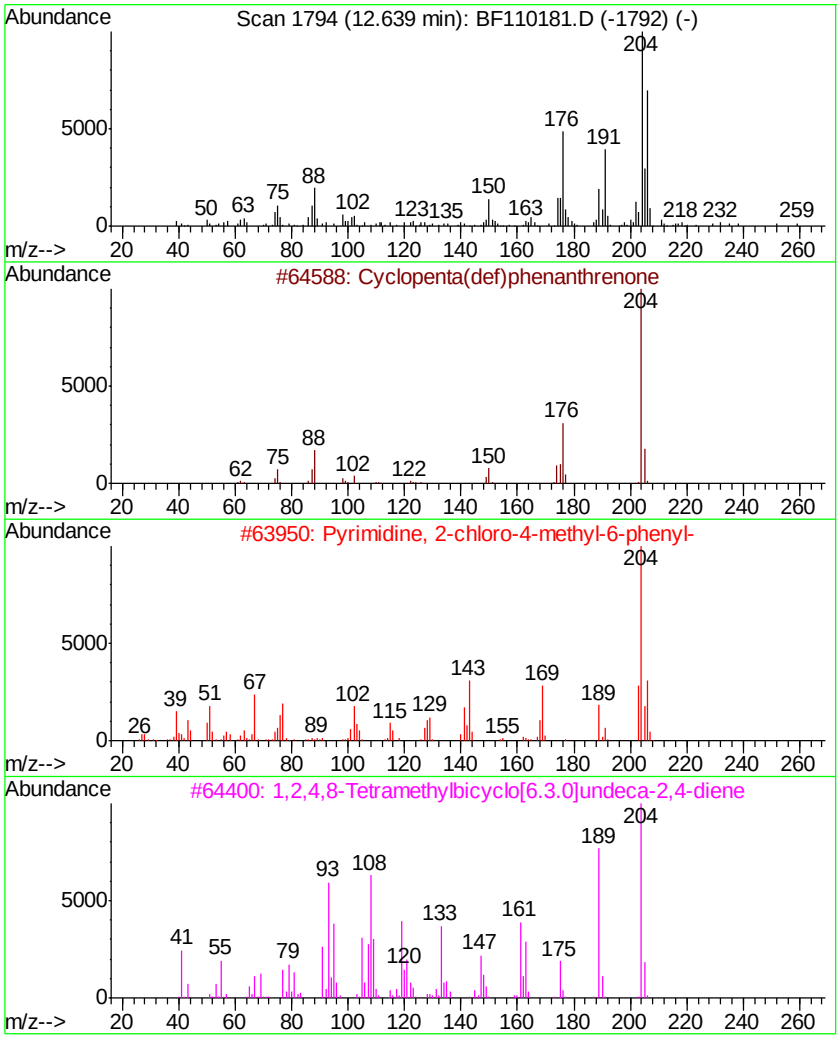
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

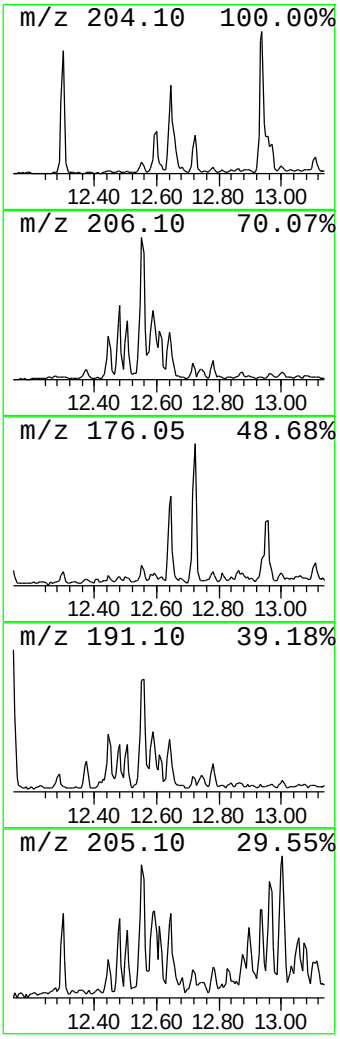
****

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	3.58 ng	174185	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	47
5	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

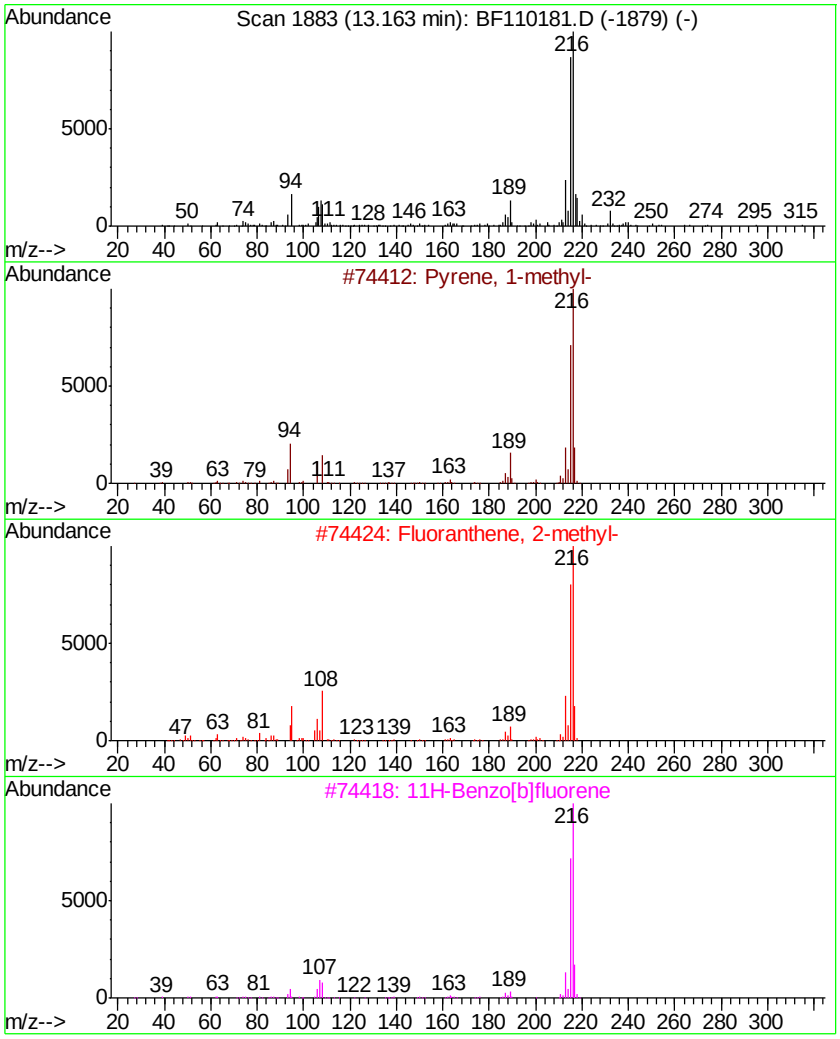
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

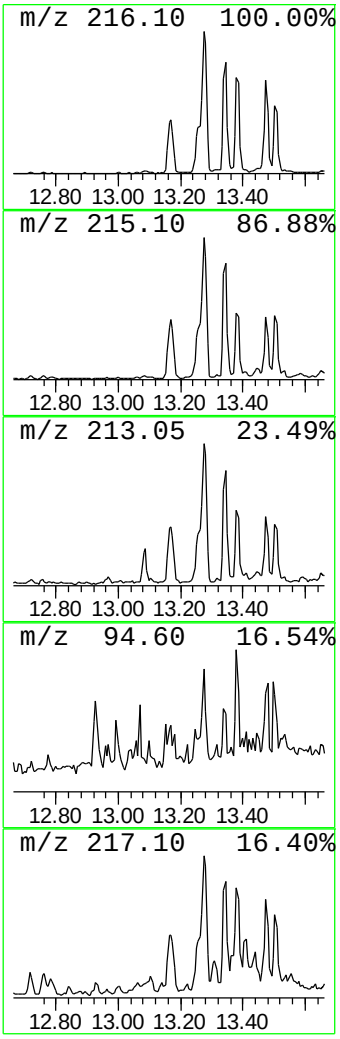
****

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	3.33 ng	306820	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

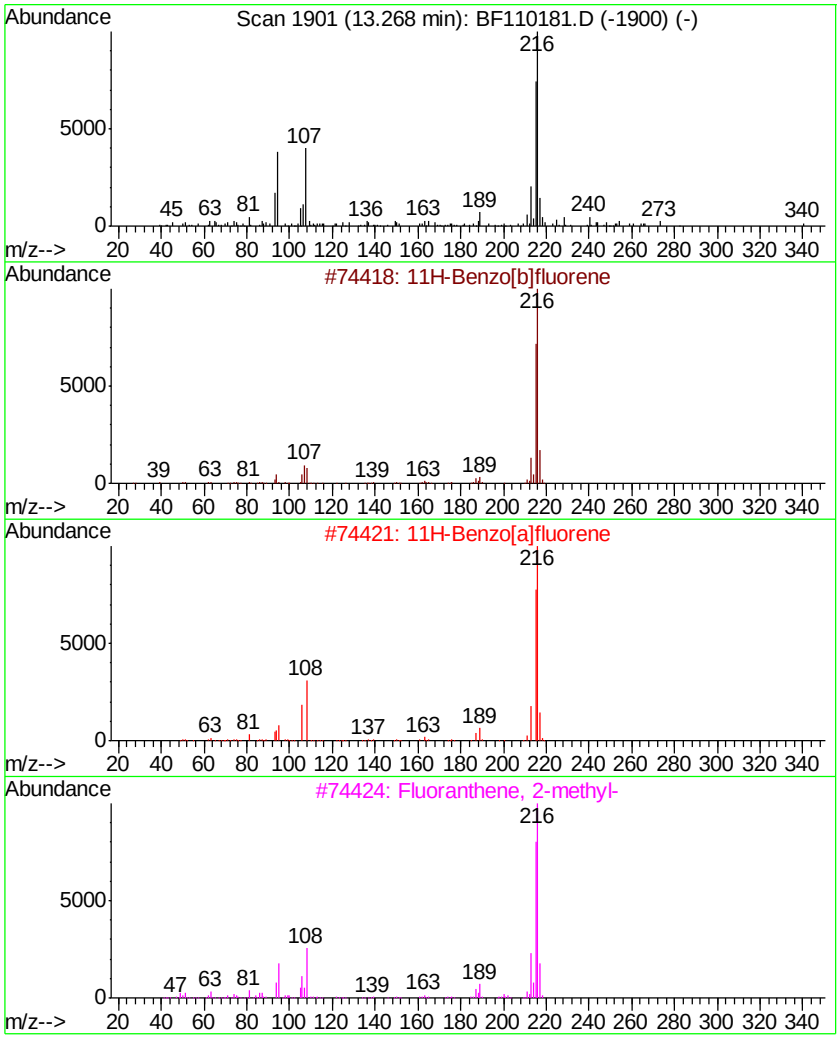
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

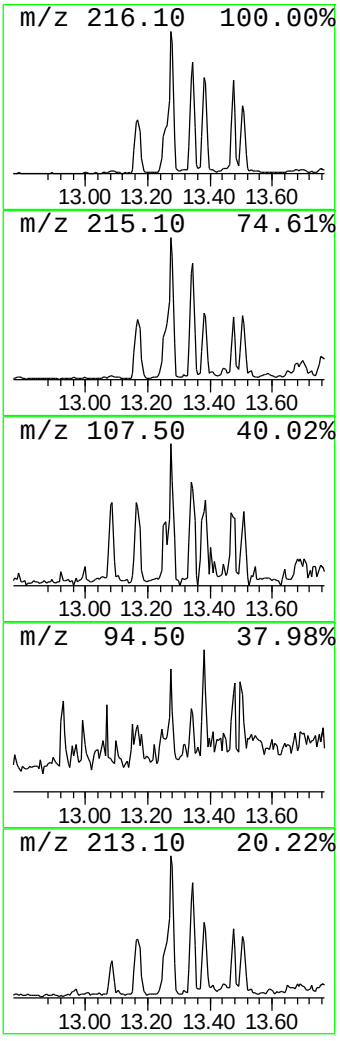
****

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	3.49 ng	320730	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

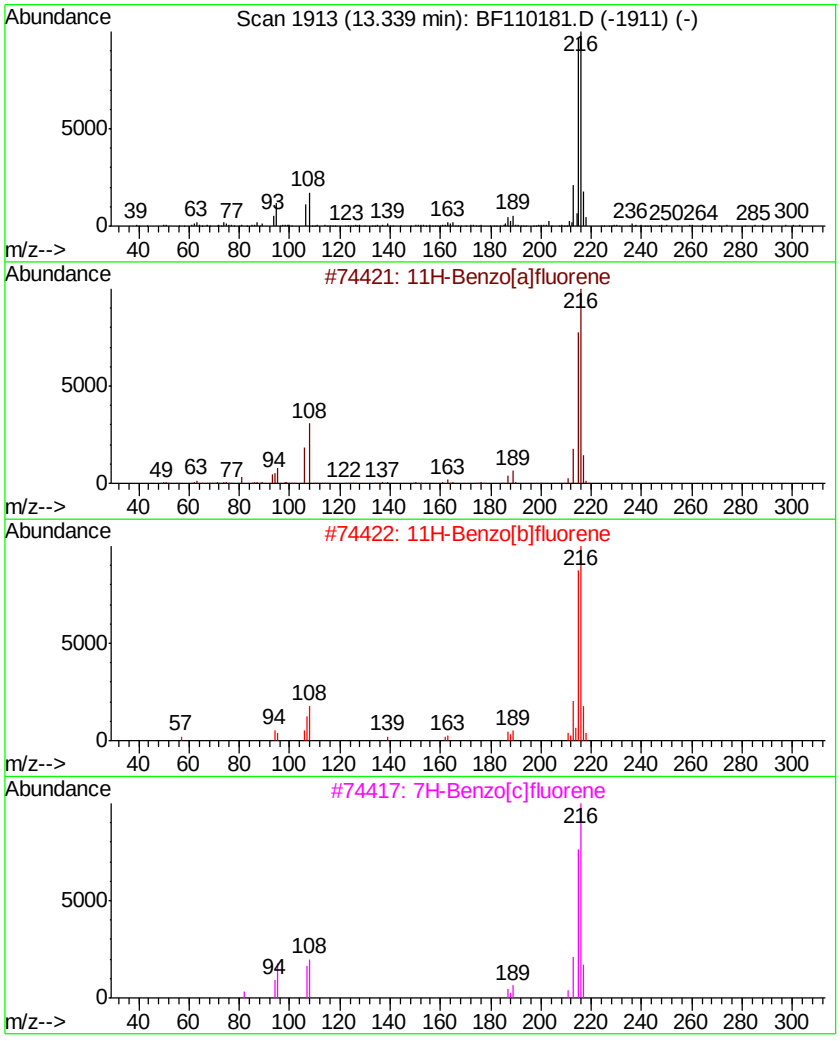
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

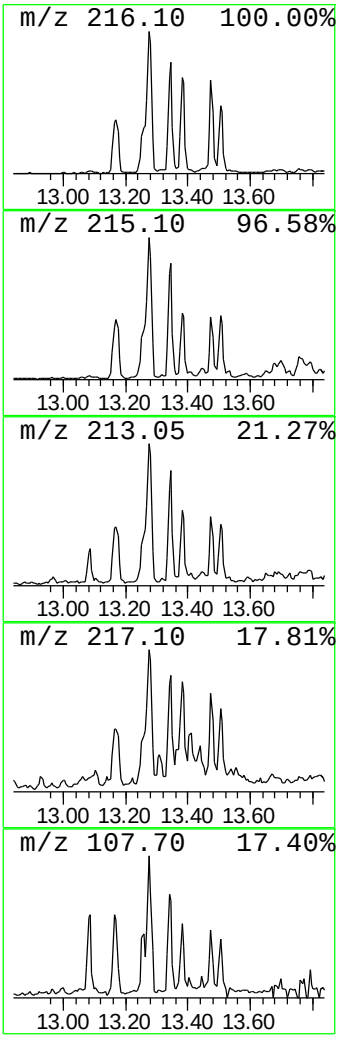
****

Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.51 ng	231338	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

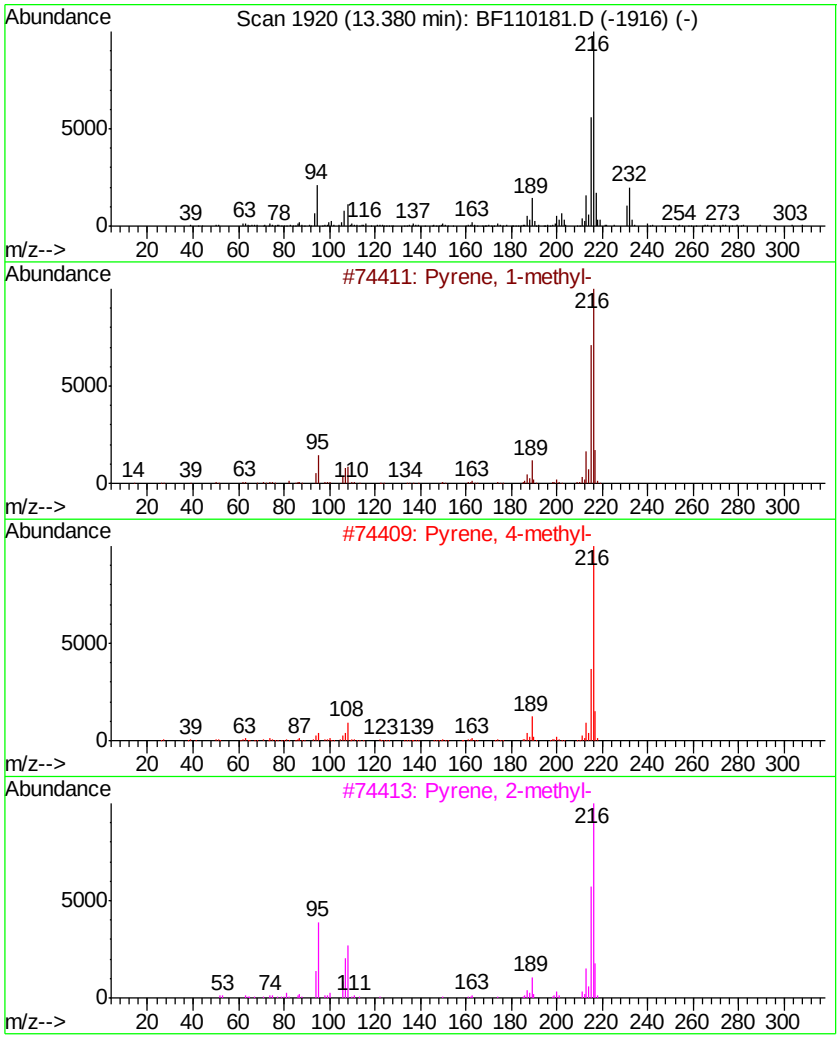
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

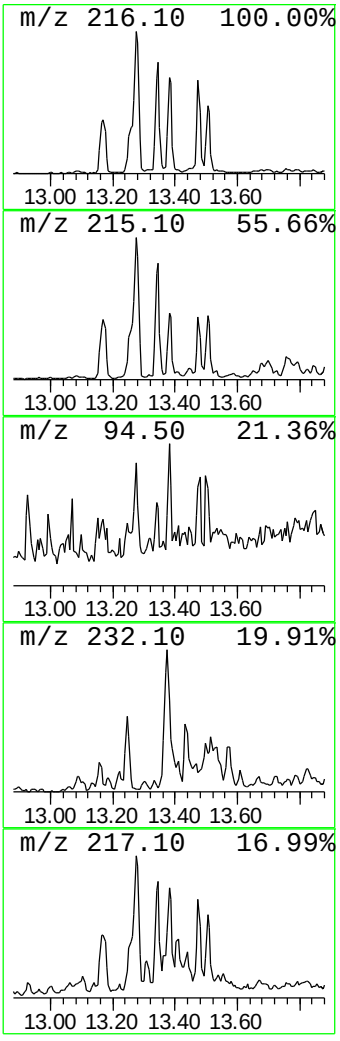
****

Peak Number 17 Pyrene, 4-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	3.12 ng	287195	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	70
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

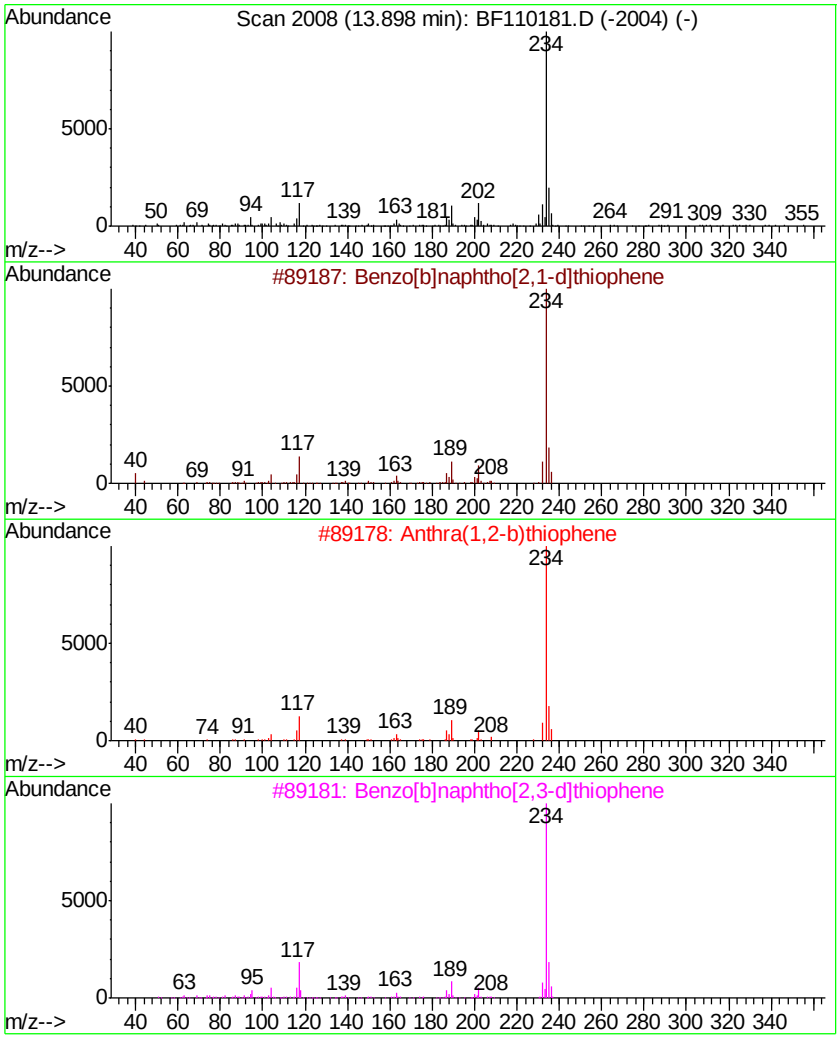
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

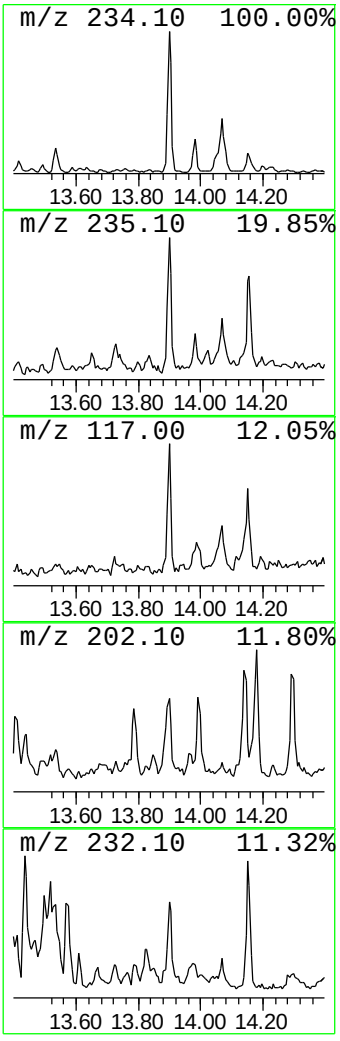
****

Peak Number 18 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.90	2.34 ng	215325	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	97
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	93
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	83
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

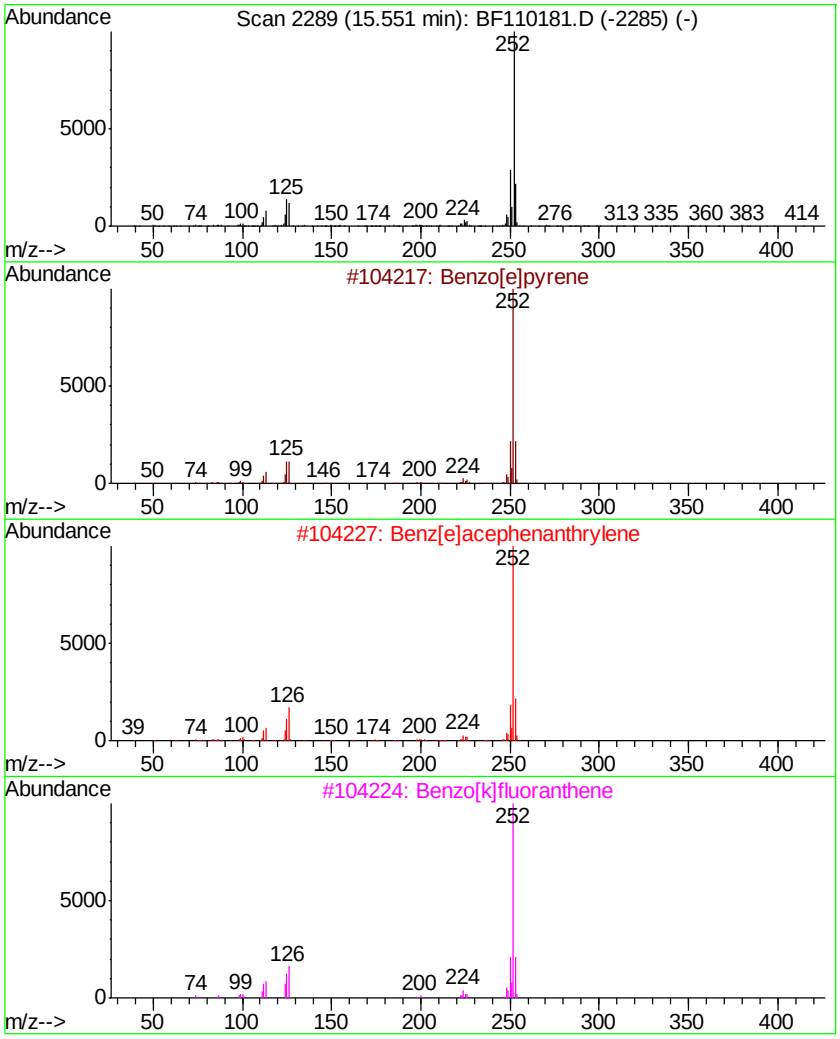
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

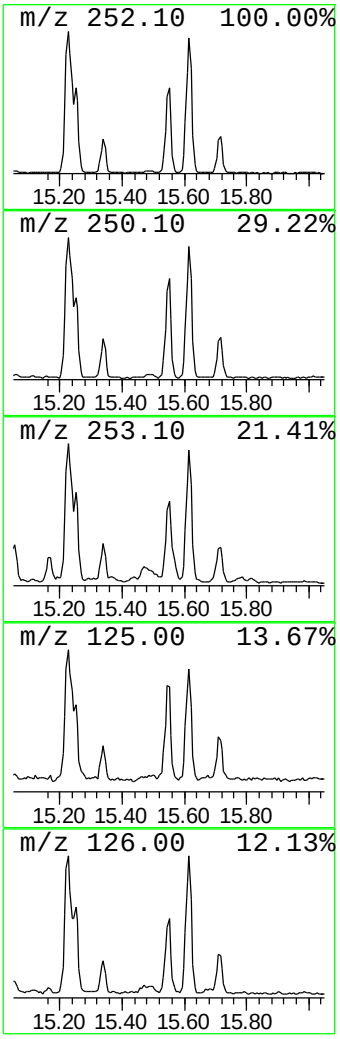
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	15.03 ng	544417	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
4	Perylene	252	C20H12	000198-55-0	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102518\
Data File : BF110181.D
Acq On : 26 Oct 2018 00:46
Operator : JU/SJ
Sample : J5200-13 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-102318-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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
Butane, 2-methoxy...	2.28	6.8	ng	289094	1	6.97	844005	20.0
unknown6.73	6.73	36.4	ng	1534610	1	6.97	844005	20.0
Naphthalene, 2,3-...	9.66	2.4	ng	126273	3	10.01	1035370	20.0
2-Bromo dodecane	10.90	3.3	ng	161998	4	11.50	973260	20.0
Phenanthrene, 2-m...	12.00	4.5	ng	217502	4	11.50	973260	20.0
Anthracene, 2-met...	12.03	5.5	ng	269956	4	11.50	973260	20.0
Anthracene, 9-met...	12.08	2.8	ng	134107	4	11.50	973260	20.0
4H-Cyclopenta[def...	12.12	9.4	ng	459672	4	11.50	973260	20.0
Naphthalene, 2-ph...	12.30	3.1	ng	149491	4	11.50	973260	20.0
Phenanthrene, 2,5...	12.55	5.1	ng	248848	4	11.50	973260	20.0
unknown12.59	12.59	2.5	ng	122617	4	11.50	973260	20.0
Cyclopenta(def)ph...	12.64	3.6	ng	174185	4	11.50	973260	20.0
Pyrene, 1-methyl-	13.16	3.3	ng	306820	5	14.15	1840300	20.0
11H-Benzo[b]fluorene	13.27	3.5	ng	320730	5	14.15	1840300	20.0
11H-Benzo[a]fluorene	13.34	2.5	ng	231338	5	14.15	1840300	20.0
Pyrene, 4-methyl-	13.38	3.1	ng	287195	5	14.15	1840300	20.0
Benzo[b]naphtho[2...	13.90	2.3	ng	215325	5	14.15	1840300	20.0
Benzo[e]pyrene	15.55	15.0	ng	544417	6	15.68	724666	20.0