LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

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-BF041819.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	5.510	577	582	585	rBV	1536007	1347350	56.45%	3.045%
2	6.510	748	752	755	rBV	1611046	1290820	54.08%	2.917%
3	6.663	774	778	781	rBV	1566017	1375635	57.64%	3.109%
4	6.898	814	818	821	rBV	978663	849756	35.60%	1.920%
5	7.051	840	844	847	rBV	1386737	1087448	45.56%	2.458%
6	7.445	907	911	915	rBV	898609	740346	31.02%	1.673%
7	8.175	1031	1035	1038	rBV	1206613	1041941	43.66%	2.355%
8	8.198	1038	1039	1043	rVB	202005	99307	4.16%	0.224%
9	8.886	1153	1156	1160	rVB	532289	427677	17.92%	0.967%
10	8.986	1168	1173	1177	rVB	532404	419915	17.59%	0.949%
11	9.251	1214	1218	1221	rVB	1779654	1436890	60.20%	3.247%
12	9.351	1228	1235	1238	rBV	74942	71613	3.00%	0.162%
13	9.445	1249	1251	1258	rVB	98975	107278	4.49%	0.242%
14	9.516	1258	1263	1267	rBV	308215	410725	17.21%	0.928%
15	9.586	1271	1275	1278	rBV	523996	509172	21.33%	1.151%
16	9.616	1278	1280	1282	rVB	355998	240650	10.08%	0.544%
17	9.639	1282	1284	1290	rVB	150484	130867	5.48%	0.296%
18	9.704	1292	1295	1297	rBV	245922	215623	9.03%	0.487%
19	9.786	1307	1309	1313	rVB	222939	181174	7.59%	0.409%
20	9.910	1327	1330	1331	rBV	118156	106306	4.45%	0.240%
21	9.928	1331	1333	1336	rVV	1252632	1051552	44.06%	2.377%
22	9.963	1336	1339	1342	rVB2	222657	192963	8.08%	0.436%
23	10.033	1348	1351	1356	rBV2	102340	132650	5.56%	0.300%
24	10.133	1364	1368	1371	rVV	204596	206839	8.67%	0.467%
25	10.169	1371	1374	1378	rVV	177079	157561	6.60%	0.356%
26	10.245	1383	1387	1390	rVV	166680	166366	6.97%	0.376%
27	10.275	1390	1392	1395	rVV	146036	102829	4.31%	0.232%
28	10.333	1398	1402	1404	rBV2	107770	160112	6.71%	0.362%
29	10.351	1404	1405	1408	rVV	107958	85428	3.58%	0.193%
30	10.427	1416	1418	1420	rVV	90026	72866	3.05%	0.165%
31	10.475	1423	1426	1432	rVV2	626864	557228	23.35%	1.259%
32	10.527	1432	1435	1436	rVV	75710	74985	3.14%	0.169%
33	10.539	1436	1437	1439	rVV	120545	100222	4.20%	0.227%
34	10.563	1439	1441	1443	rVV2	148908	121242	5.08%	0.274%

LSC Area Percent Report

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Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

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-BF041819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.586	1443	1445	1447	rVV	84873	76227	3.19%	0.172%
36	10.627	1450	1452	1459	rVV3	102212	129355	5.42%	0.292%
37	10.710	1461	1466	1471	rVV	1189524	1060348	44.43%	2.396%
38	10.839	1483	1488	1495	rVB4	72075	87379	3.66%	0.197%
39	11.022	1514	1519	1522	rVV	332030	407796	17.09%	0.922%
40	11.051	1522	1524	1527	rVV	256349	232443	9.74%	0.525%
41	11.104	1531	1533	1536	rVV	204194	182960	7.67%	0.413%
42	11.174	1543	1545	1549	rVV2	93242	103318	4.33%	0.234%
43	11.222	1549	1553	1556	rVV4	54407	86903	3.64%	0.196%
44	11.263	1556	1560	1563	rVV3	70464	93126	3.90%	0.210%
45	11.310	1565	1568	1573	rVB	241274	236784	9.92%	0.535%
46	11.410	1582	1585	1587	rBV	1317192	1248180	52.30%	2.821%
47	11.439	1587	1590	1593	rVV	2259648	1887314	79.08%	4.265%
48	11.486	1595	1598	1601	rVB	565275	441078	18.48%	0.997%
49	11.522	1601	1604	1607	rBV	138913	167566	7.02%	0.379%
50	11.745	1638	1642	1645	rVB2	216405	206424	8.65%	0.467%
51	11.827	1653	1656	1659	rVB	159704	167415	7.01%	0.378%
52	11.916	1667	1671	1673	rBV	798326	720107	30.17%	1.627%
53	11.939	1673	1675	1679	rVB	929293	872380	36.55%	1.972%
54	11.986	1680	1683	1686	rBV	353970	311562	13.05%	0.704%
55	12.027	1686	1690	1692	rBV2	842018	1000183	41.91%	2.260%
56	12.045	1692	1693	1698	rVB	633488	496963	20.82%	1.123%
57	12.116	1700	1705	1708	rBV3	53112	73945	3.10%	0.167%
58	12.204	1714	1720	1723	rBV	297422	361915	15.16%	0.818%
59	12.227	1723	1724	1731	rVB3	128527	171805	7.20%	0.388%
60	12.357	1744	1746	1749	rVB	147958	102123	4.28%	0.231%
61	12.386	1749	1751	1753	rBV	192264	156814	6.57%	0.354%
62	12.410	1753	1755	1758	rVB2	154557	135693	5.69%	0.307%
63	12.463	1758	1764	1767	rBV	582166	650134	27.24%	1.469%
64	12.504	1767	1771	1773	rBV2	298646	378453	15.86%	0.855%
65	12.521	1773	1774	1776	rVB	192408	86030	3.60%	0.194%
66	12.551	1776	1779	1780	rBV	181531	203669	8.53%	0.460%
67	12.621	1788	1791	1795	rBV	1534163	1366821	57.27%	3.089%
68	12.669	1795	1799	1801	rVV	126619	140450	5.88%	0.317%
69	12.686	1801	1802	1805	rVB2	135657	107131	4.49%	0.242%
70	12.721	1805	1808	1810	rBV3	106960	102266	4.28%	0.231%
71	12.774	1815	1817	1820	rVV3	113765	132130	5.54%	0.299%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.851	1824	1830	1833	rVV	1944148	1990018	83.38%	4.497%
73	12.874	1833	1834	1836	rVV	233265	131910	5.53%	0.298%
74	12.910	1836	1840	1843	rVB2	145837	182208	7.63%	0.412%
75	12.968	1848	1850	1851	rVV	101241	81553	3.42%	0.184%
76	12.992	1851	1854	1861	rVB	2323401	2126666	89.10%	4.806%
77	13.068	1864	1867	1874	rVV2	299906	437510	18.33%	0.989%
78	13.127	1874	1877	1879	rBV	115082	111097	4.65%	0.251%
79	13.157	1879	1882	1883	rVV2	225126	229666	9.62%	0.519%
80	13.180	1883	1886	1889	rVB	564778	546592	22.90%	1.235%
81	13.245	1894	1897	1900	rVB2	473610	391939	16.42%	0.886%
82	13.286	1900	1904	1906	rBV	446915	441569	18.50%	0.998%
83	13.374	1916	1919	1922	rBV	378238	305955	12.82%	0.691%
84	13.404	1922	1924	1927	rBV	398611	329107	13.79%	0.744%
85	13.580	1952	1954	1956	rBV2	111435	108014	4.53%	0.244%
86	13.663	1965	1968	1970	rBV	150765	206480	8.65%	0.467%
87	13.798	1986	1991	1994	rBV3	178391	323657	13.56%	0.731%
88	13.827	1994	1996	1998	rVB	144024	114172	4.78%	0.258%
89	13.892	2004	2007	2011	rVB4	170122	215409	9.03%	0.487%
90	14.045	2028	2033	2036	rBV2	1761448	2386720	100.00%	5.394%
91	14.074	2036	2038	2045	rVB	816575	739332	30.98%	1.671%
92	14.133	2046	2048	2050	rBV	99495	86618	3.63%	0.196%
93	14.433	2096	2099	2102	rVB	330763	289379	12.12%	0.654%
94	14.468	2102	2105	2107	rVB	207521	185335	7.77%	0.419%
95	14.527	2112	2115	2118	rVB3	254404	257680	10.80%	0.582%
96	14.557	2118	2120	2122	rBV	209904	180710	7.57%	0.408%
97	15.092	2207	2211	2214	rBV	333662	559801	23.45%	1.265%
98	15.392	2259	2262	2267	rVB	272239	319681	13.39%	0.722%
99	15.457	2269	2273	2278	rVB	329829	403411	16.90%	0.912%
100	15.521	2280	2284	2287	rVB	782398	906719	37.99%	2.049%

Sum of corrected areas: 44247434

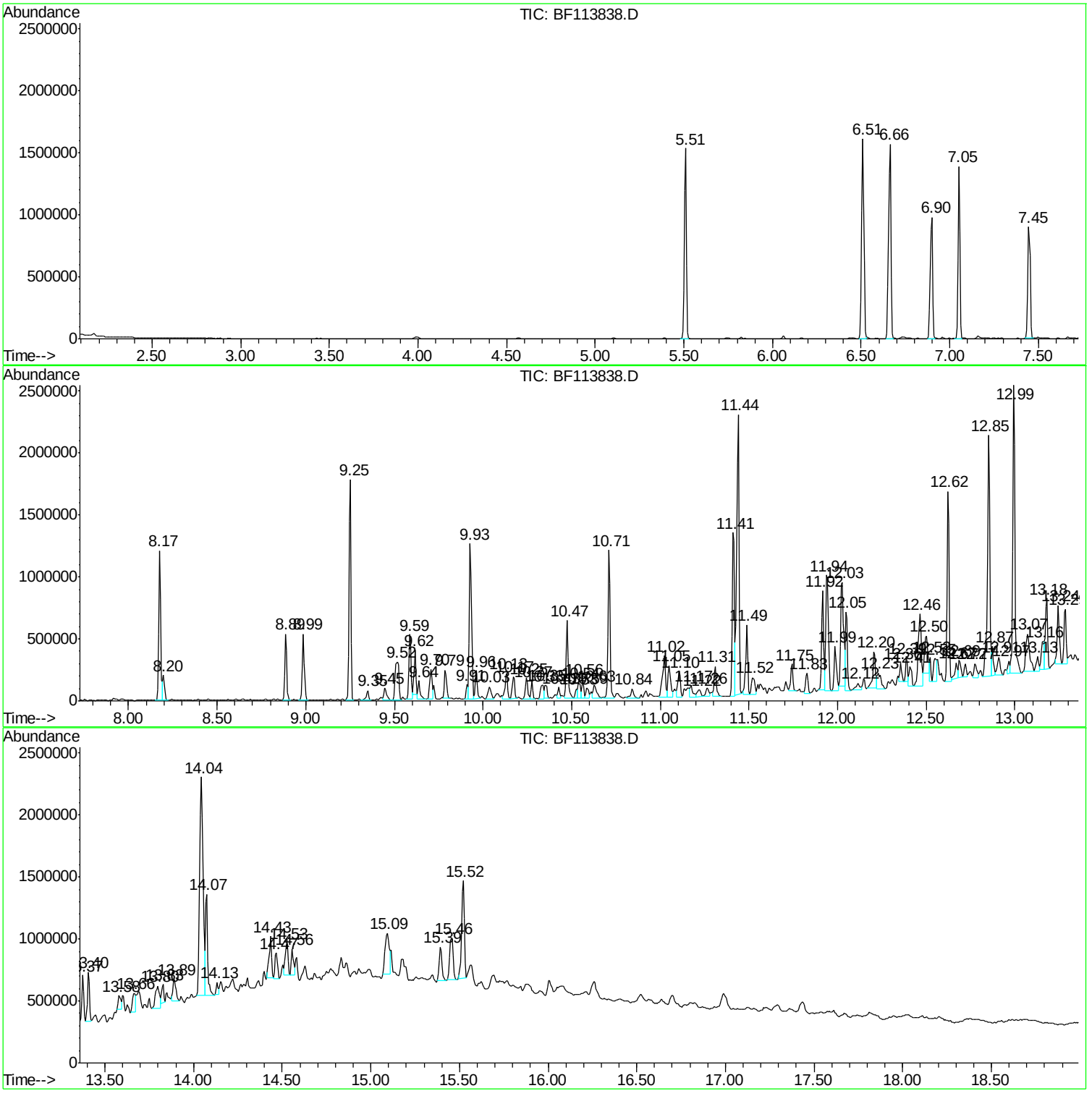
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.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\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

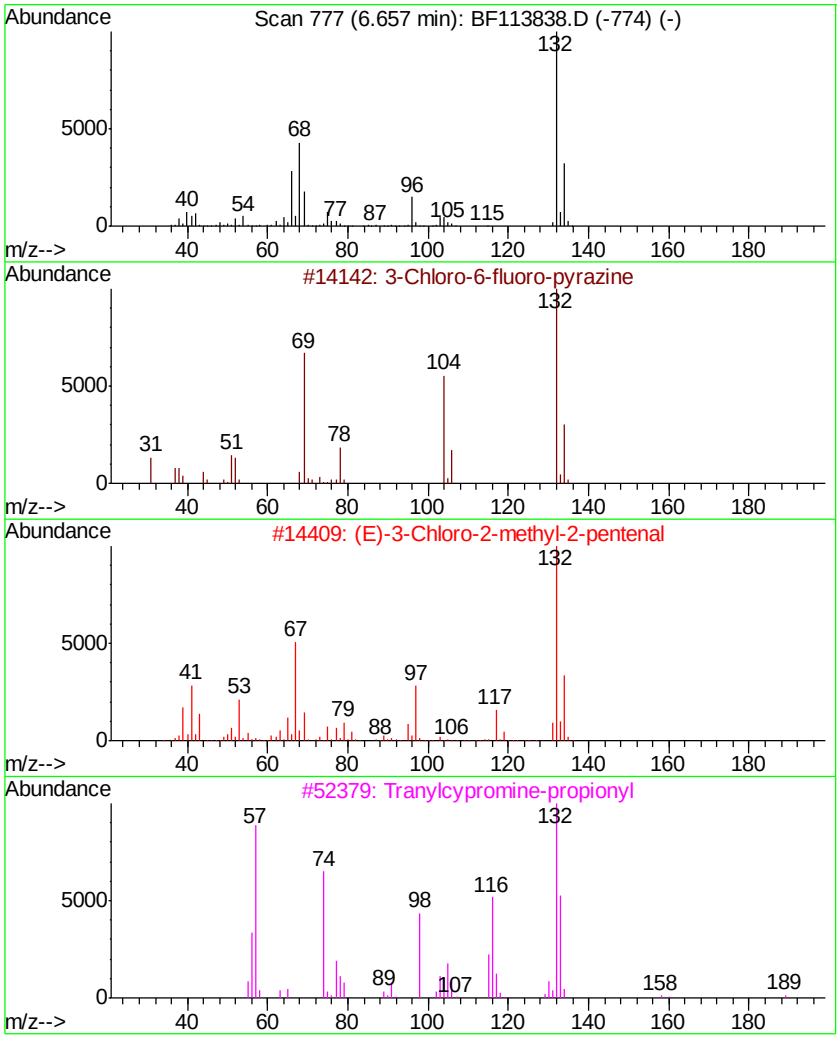
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

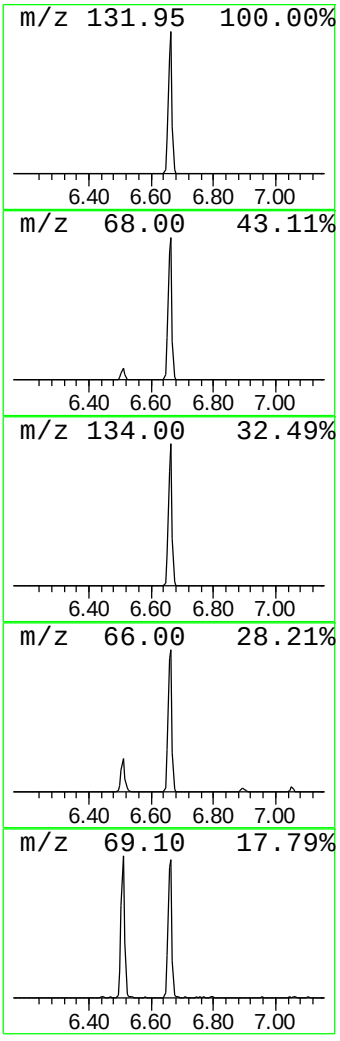
****

Peak Number 1 unknown6.66 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	32.38 ng	1375640	1,4-Dichlorobenzene-d4	6.90

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	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
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Misc :
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Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

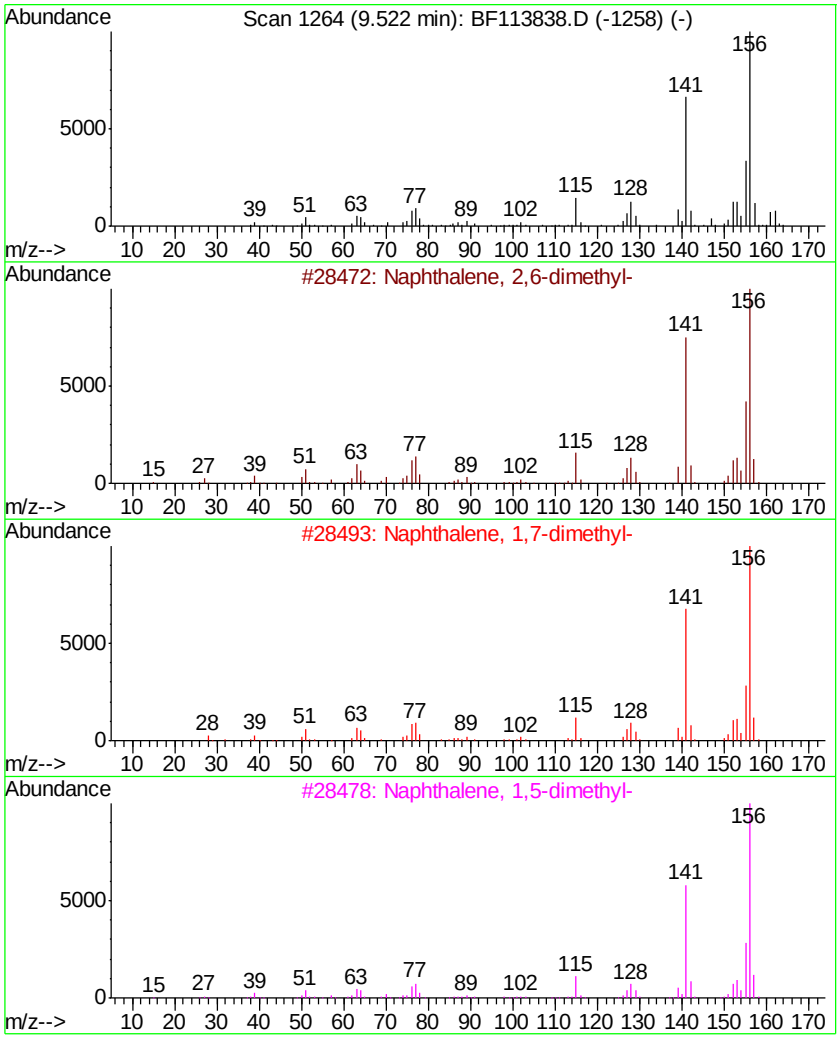
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

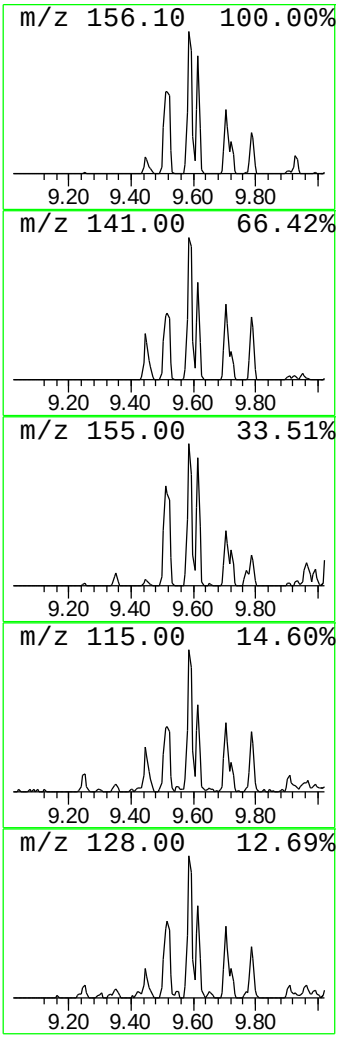
****

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	7.81 ng	410725	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

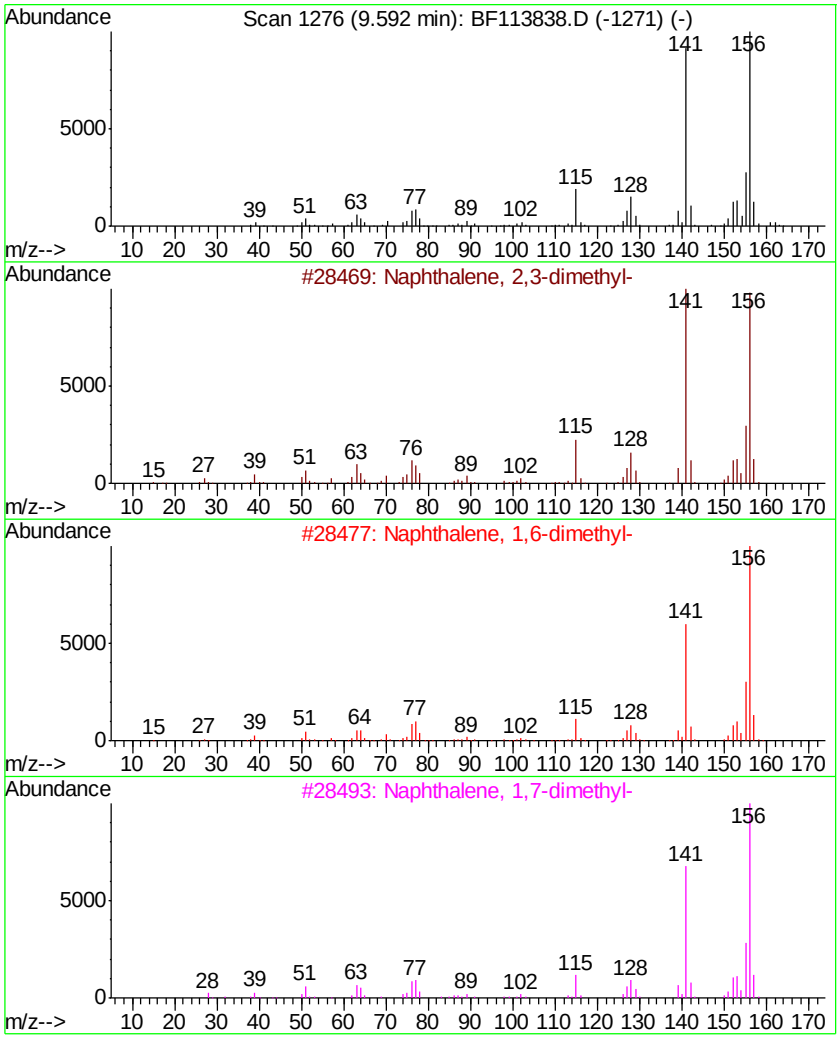
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

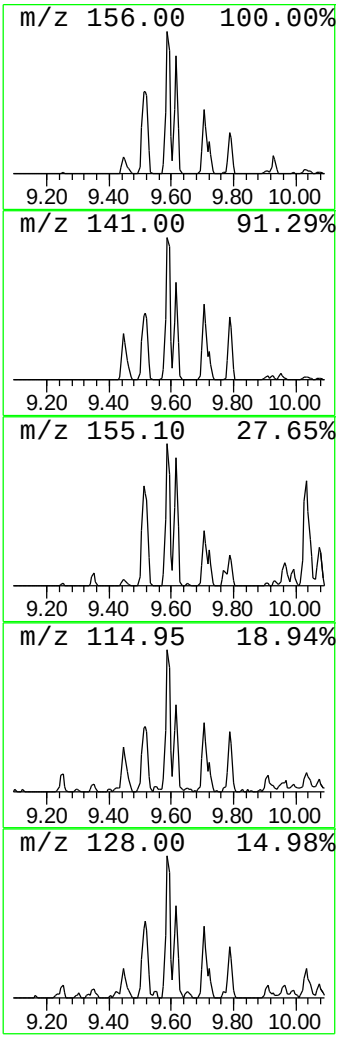
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.59	9.68 ng	509172	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

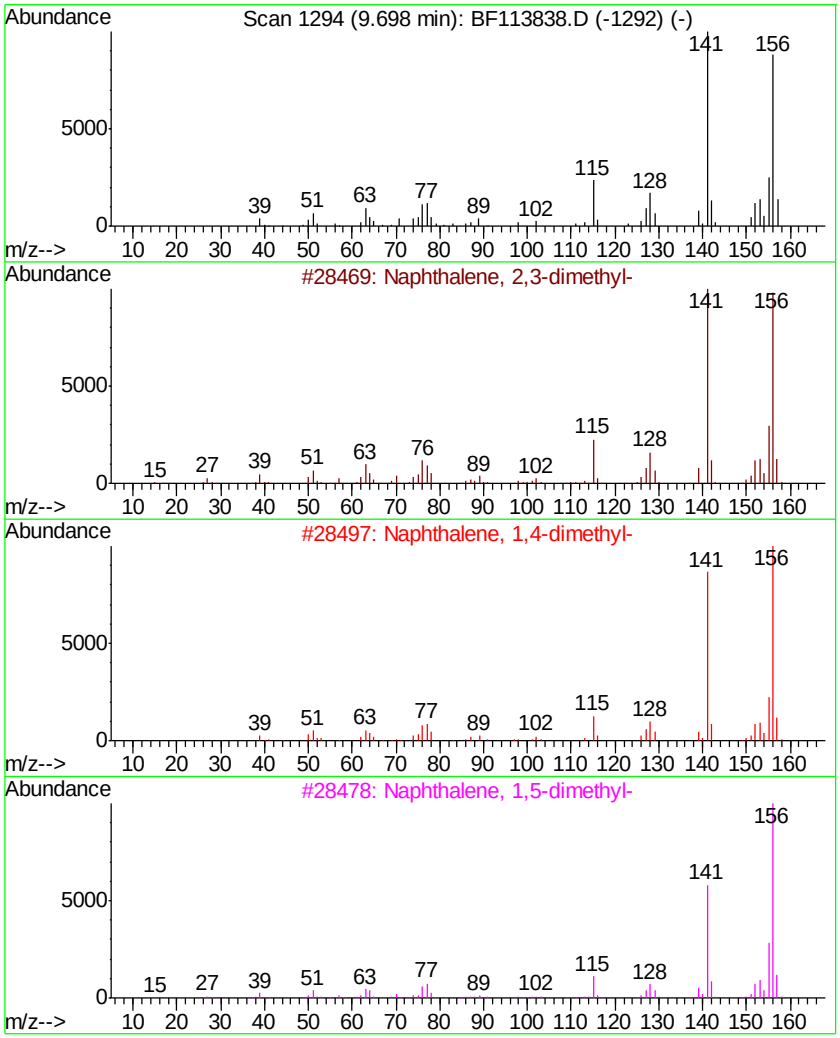
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

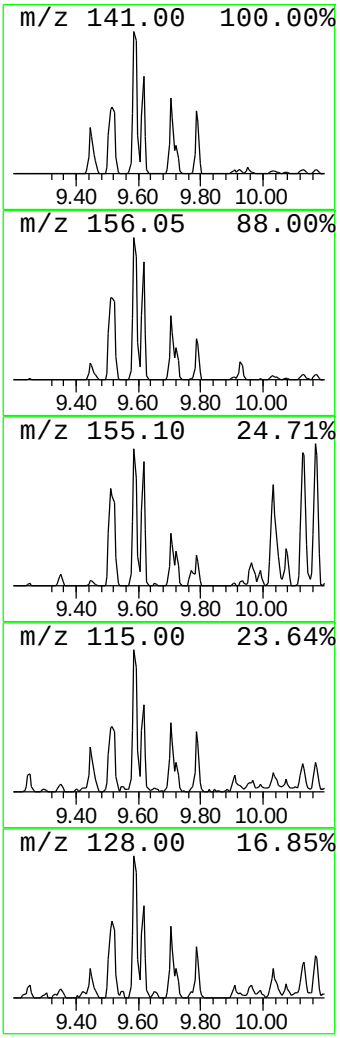
****

Peak Number 5 Naphthalene, 1,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.70	4.10 ng	215623	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

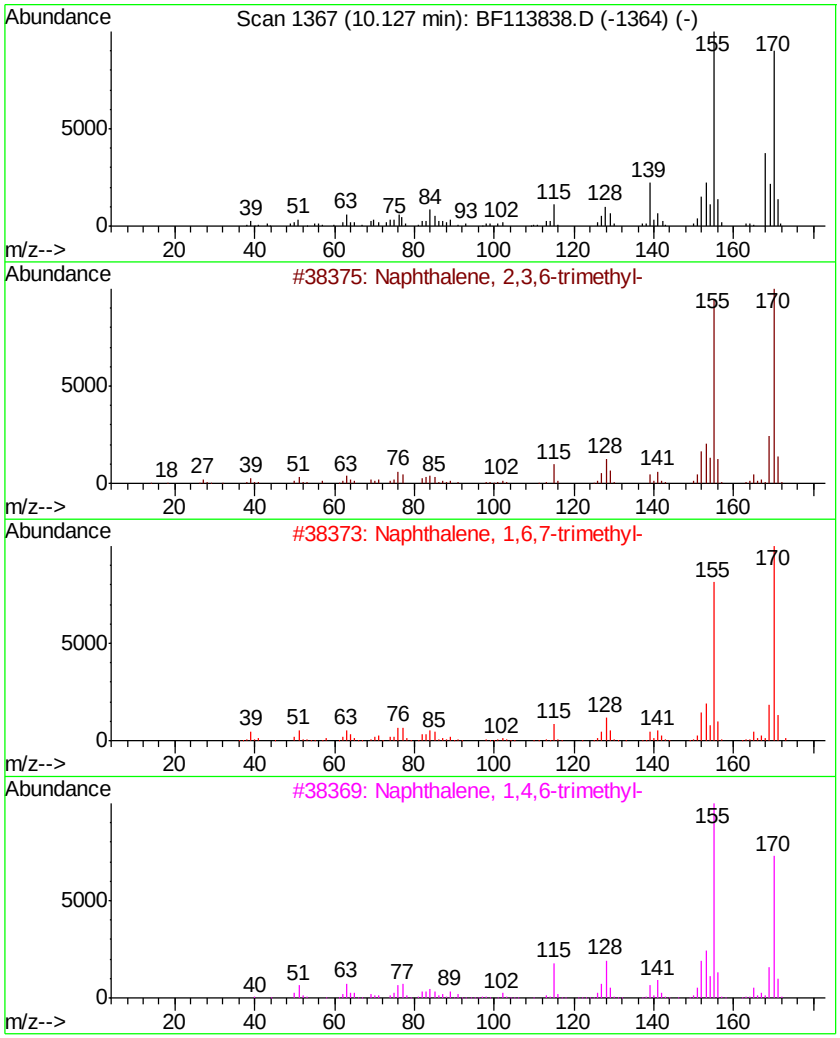
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

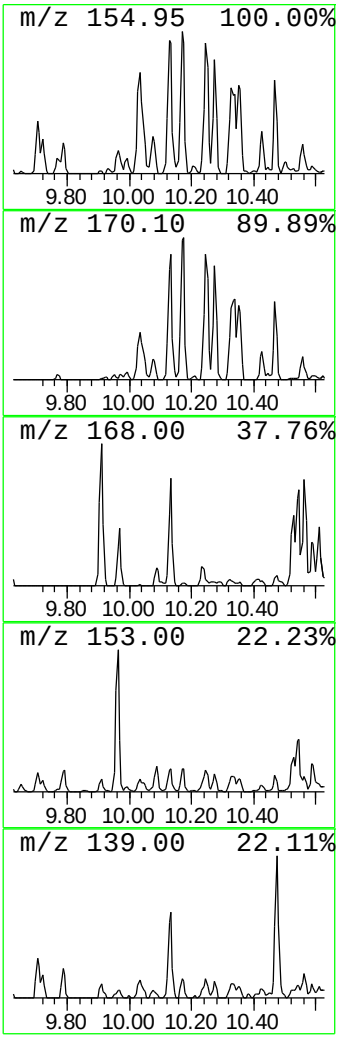
****

Peak Number 6 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.13	3.93 ng	206839	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	94
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	89





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Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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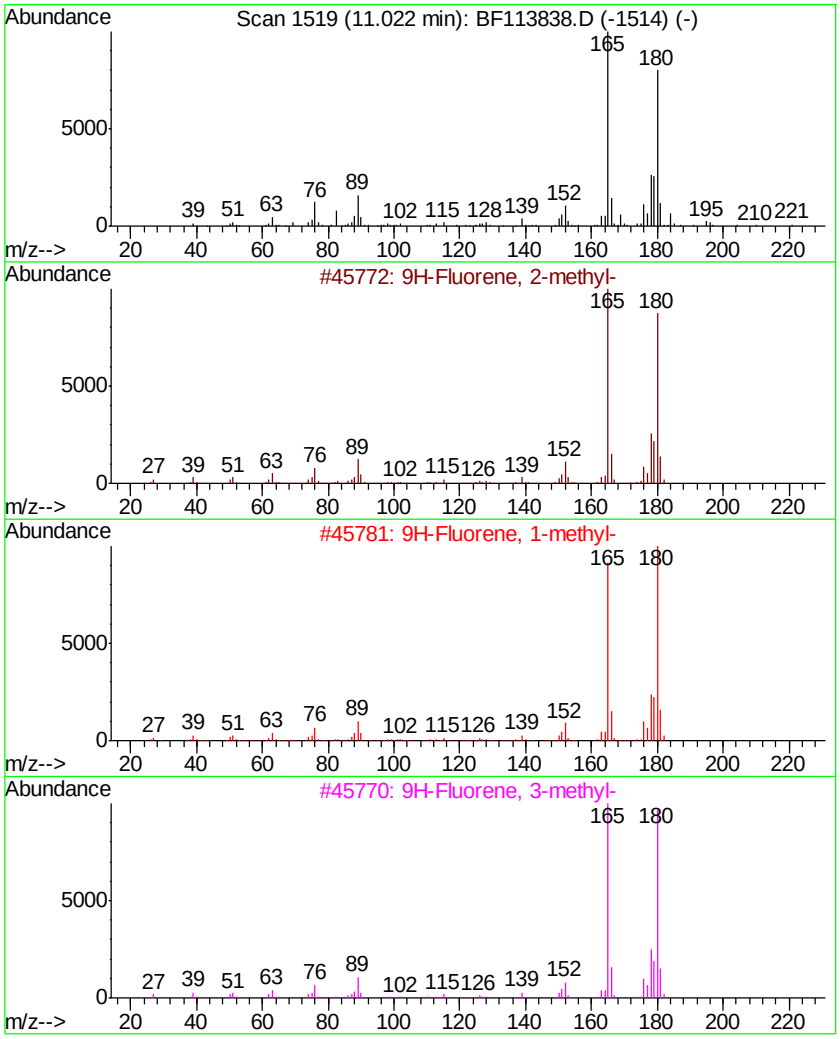
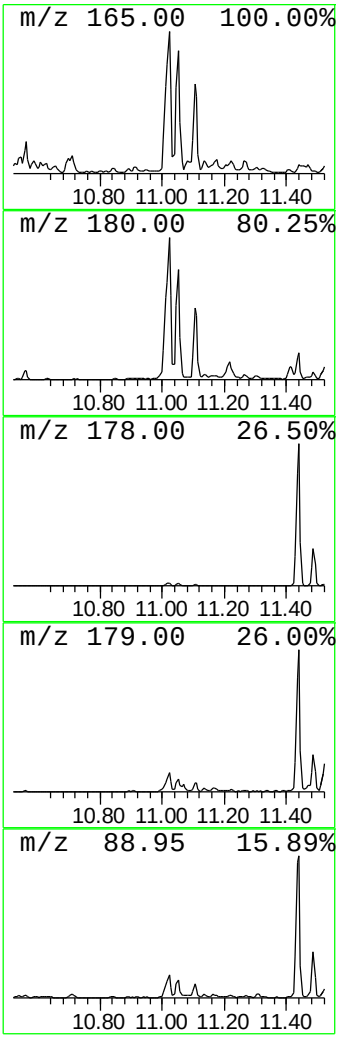
Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	6.53 ng	407796	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	93





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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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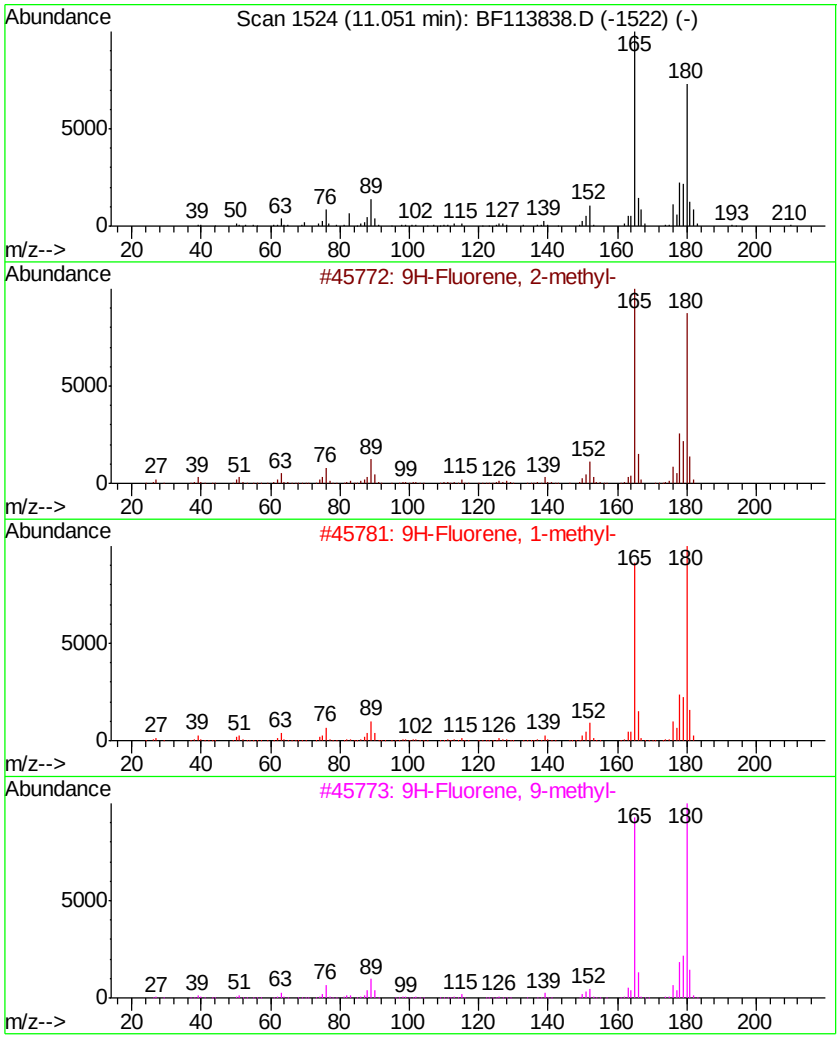
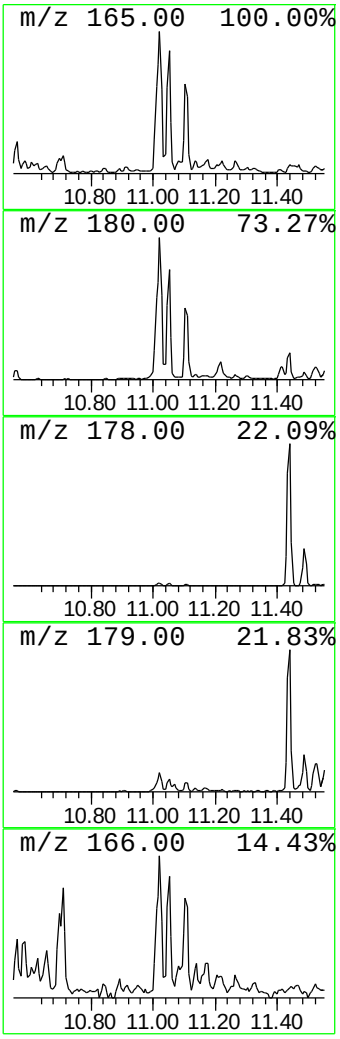
Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	3.72 ng	232443	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	93





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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId : CL-01-041619-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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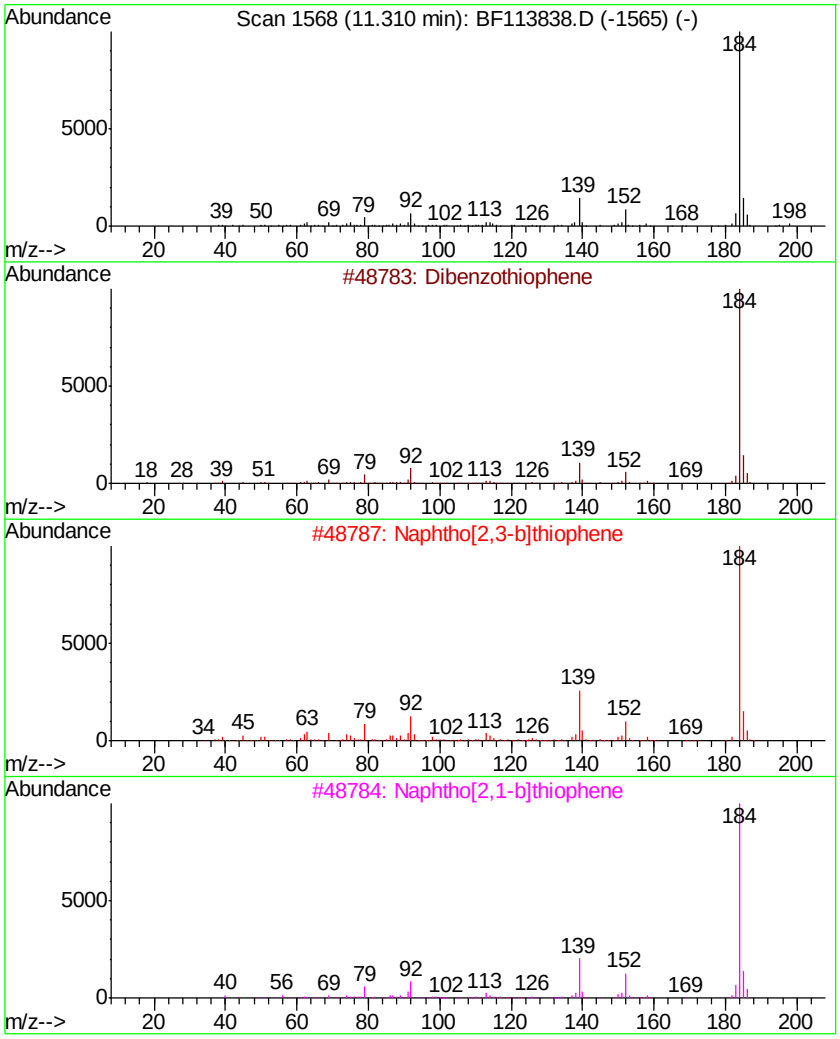
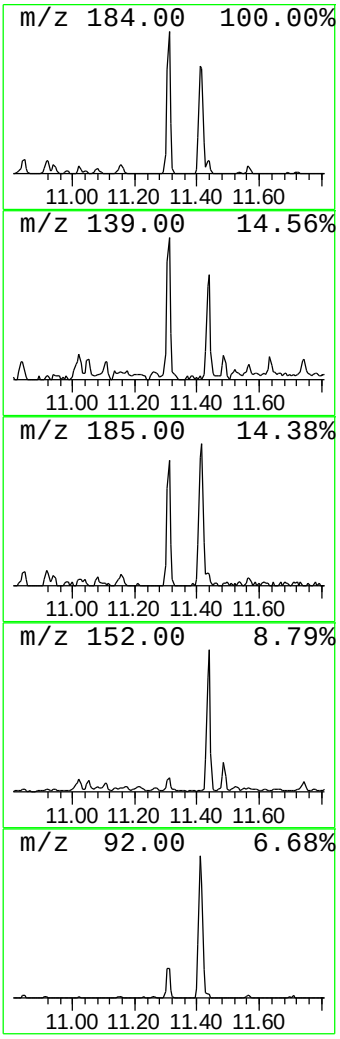
Peak Number 9 Dibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.31	3.79 ng	236784	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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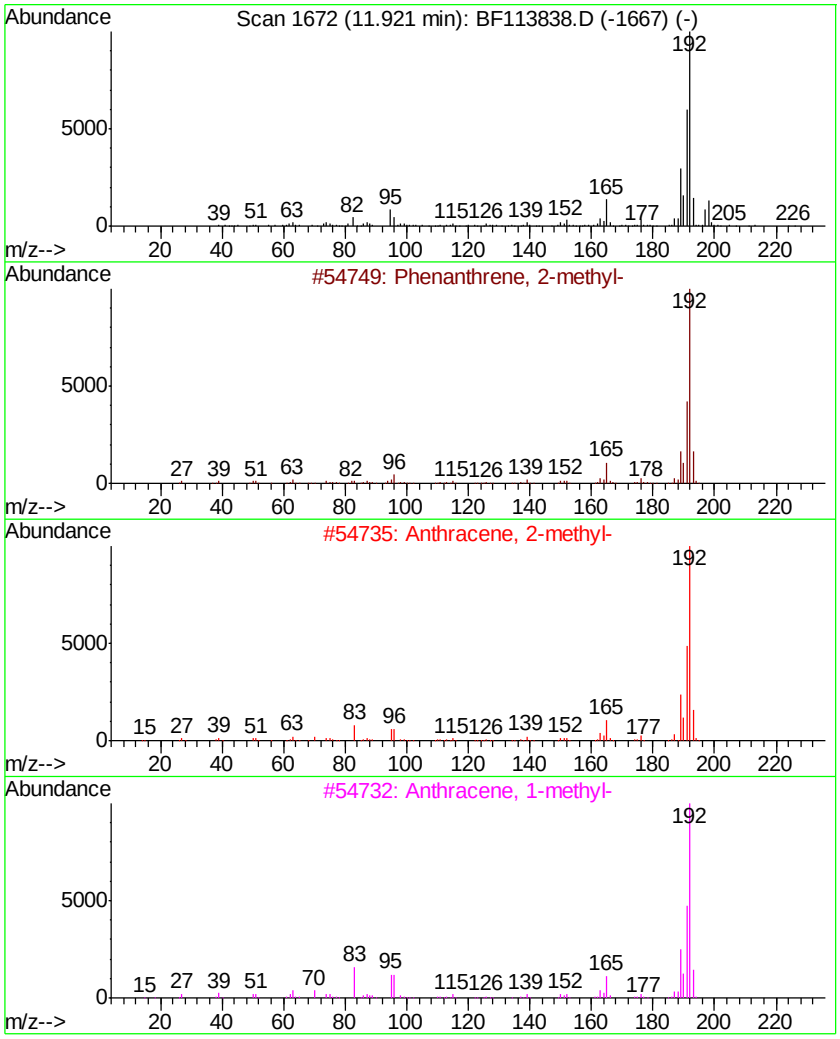
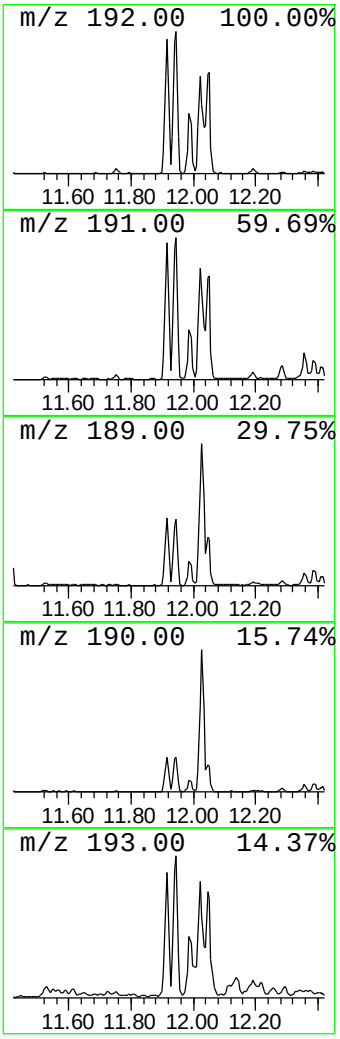
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	11.54 ng	720107	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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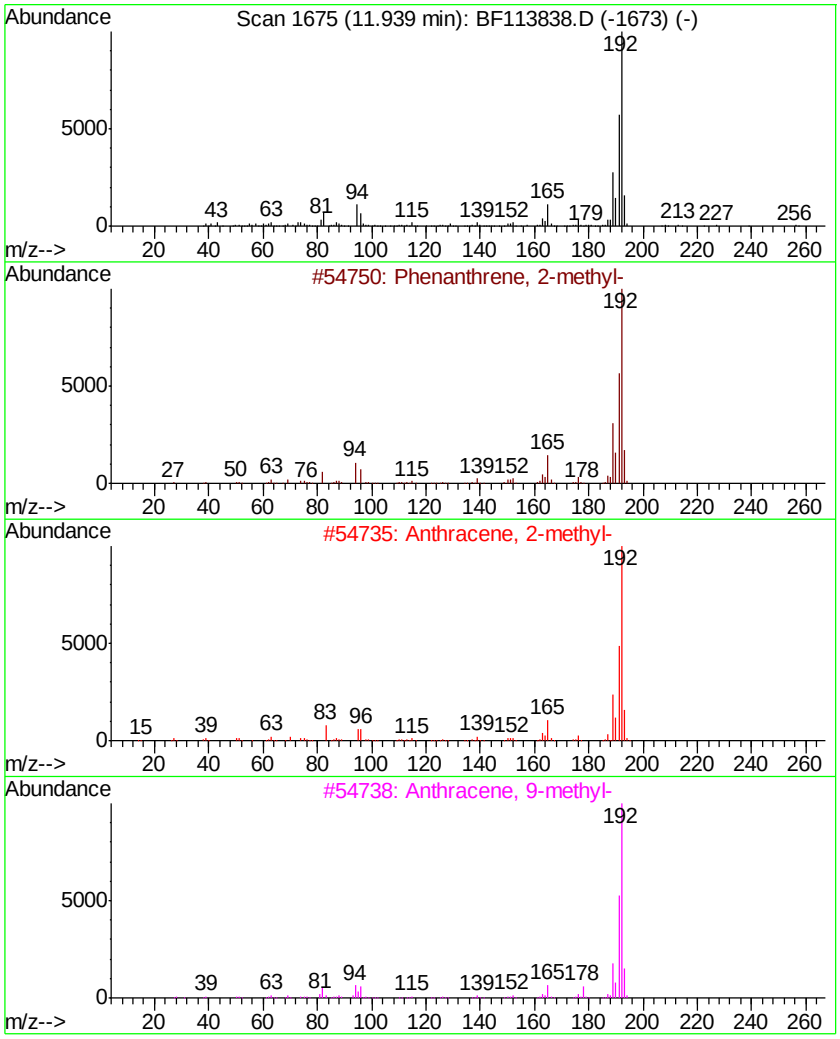
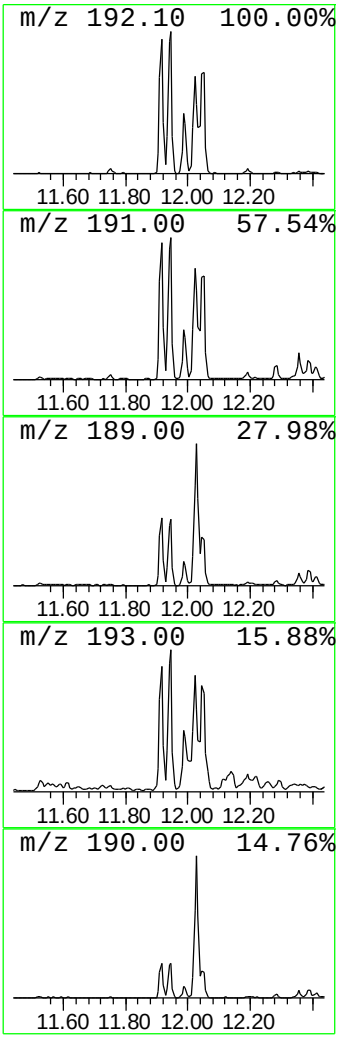
Peak Number 11 unknown11.94 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	13.98 ng	872380	Phenanthrene-d10	11.41

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	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

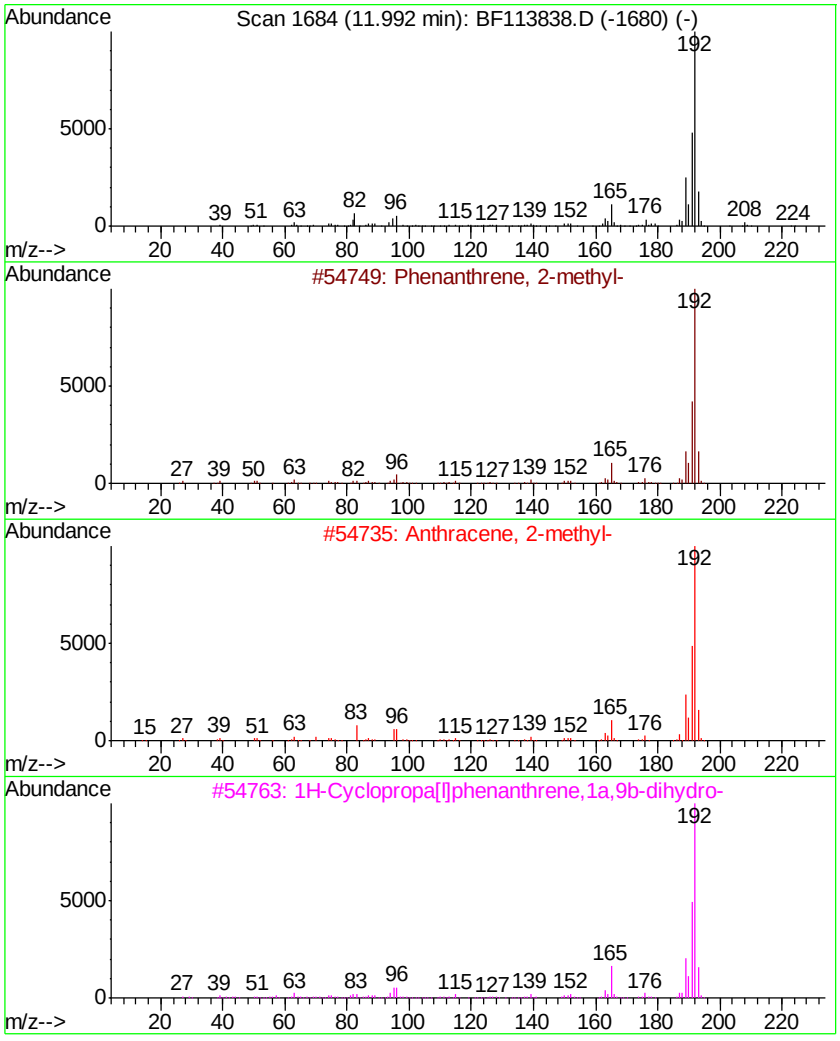
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

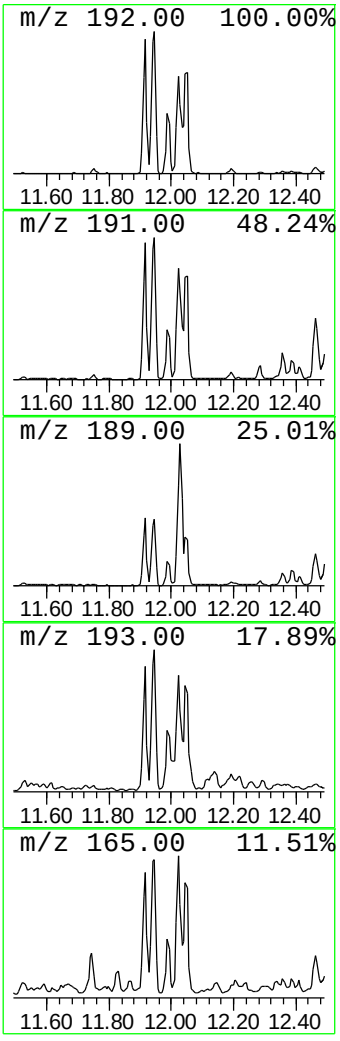
****

Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	4.99 ng	311562	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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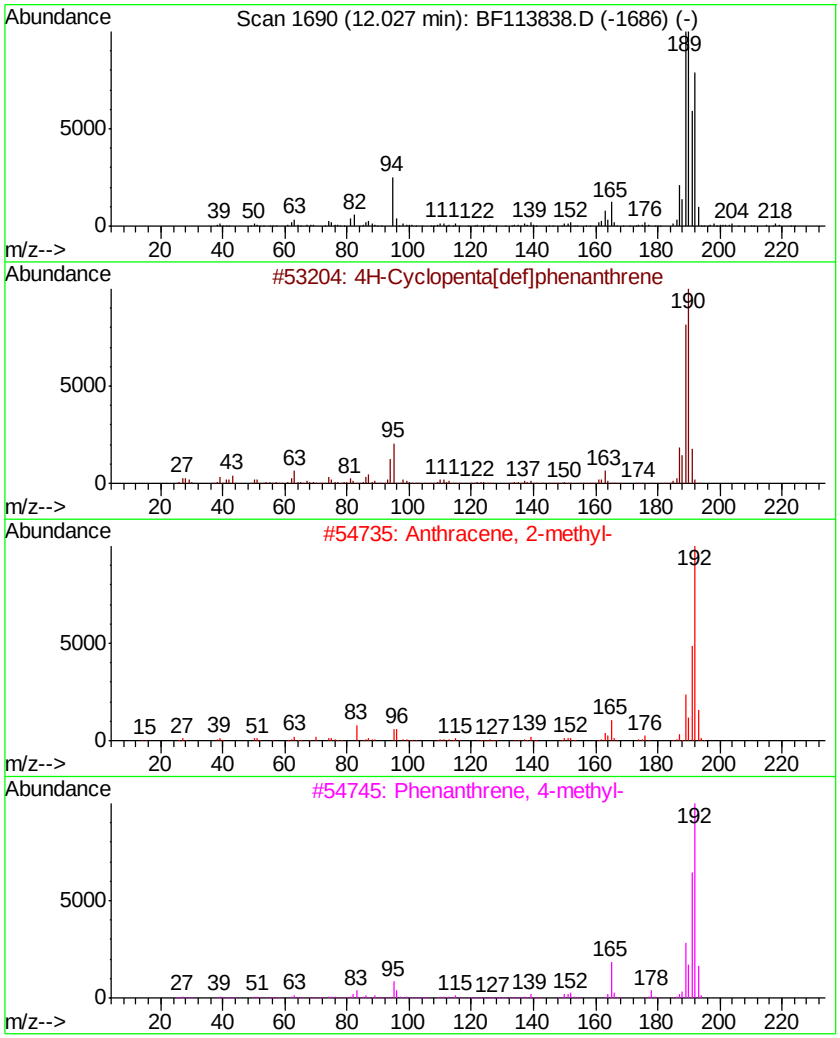
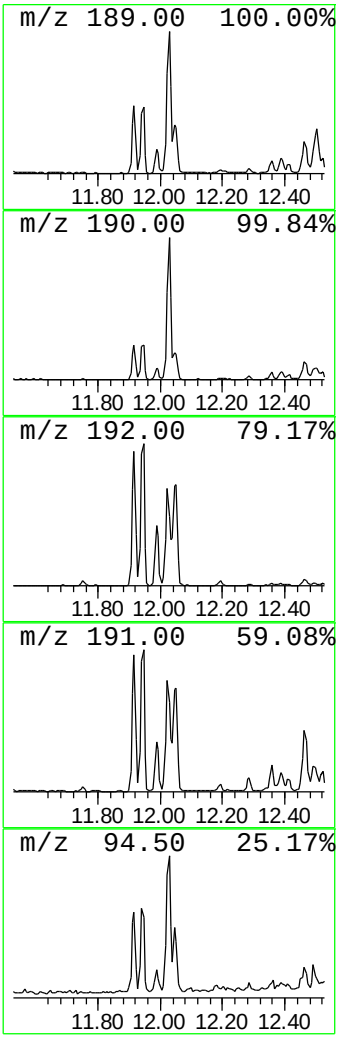
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	16.03 ng	1000180	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	38
4	3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	35
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	35





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Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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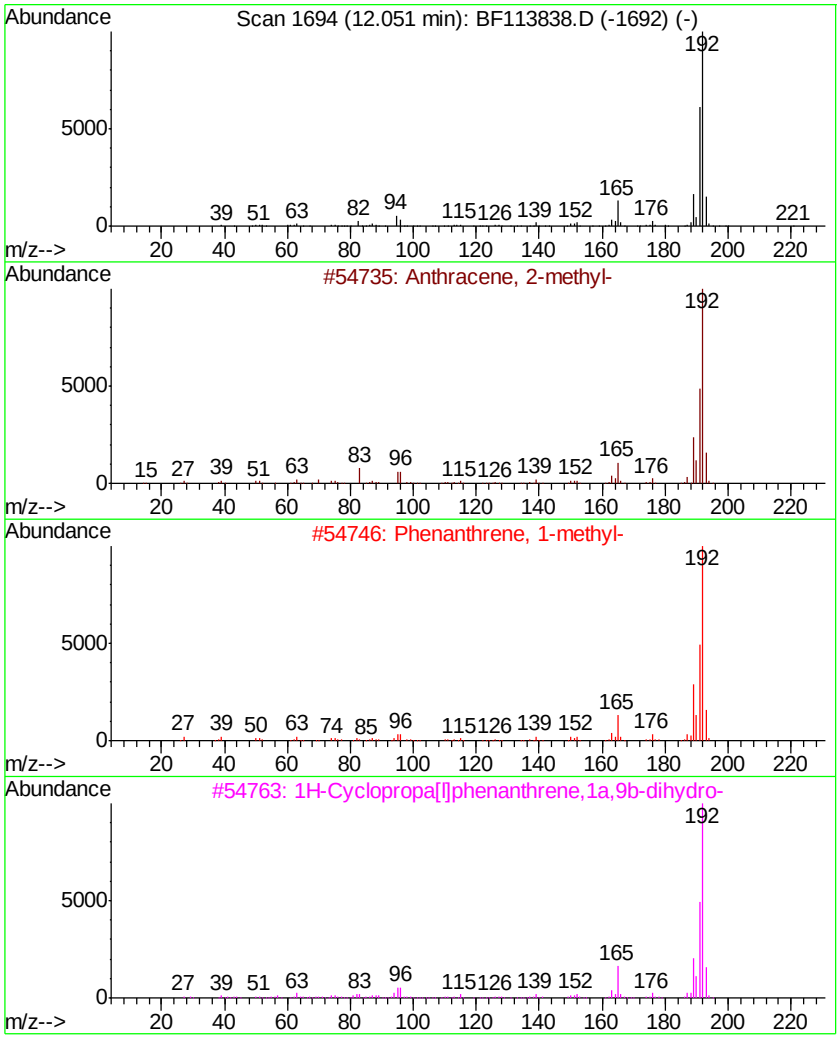
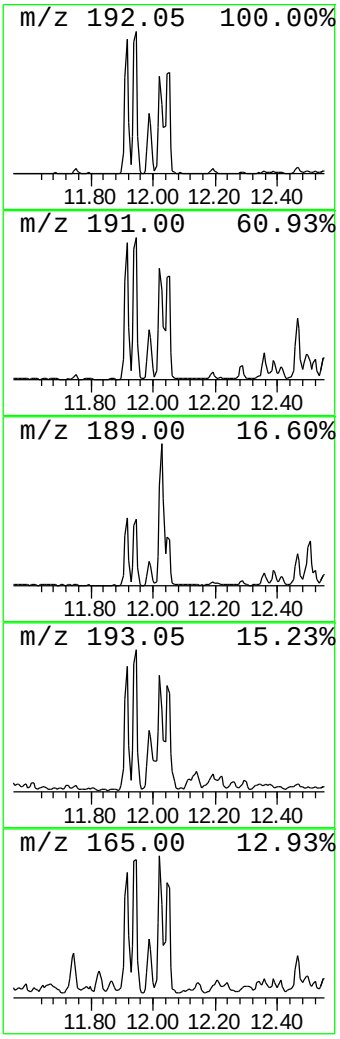
Peak Number 14 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	7.96 ng	496963	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	81





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Acq On : 19 Apr 2019 1:20
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Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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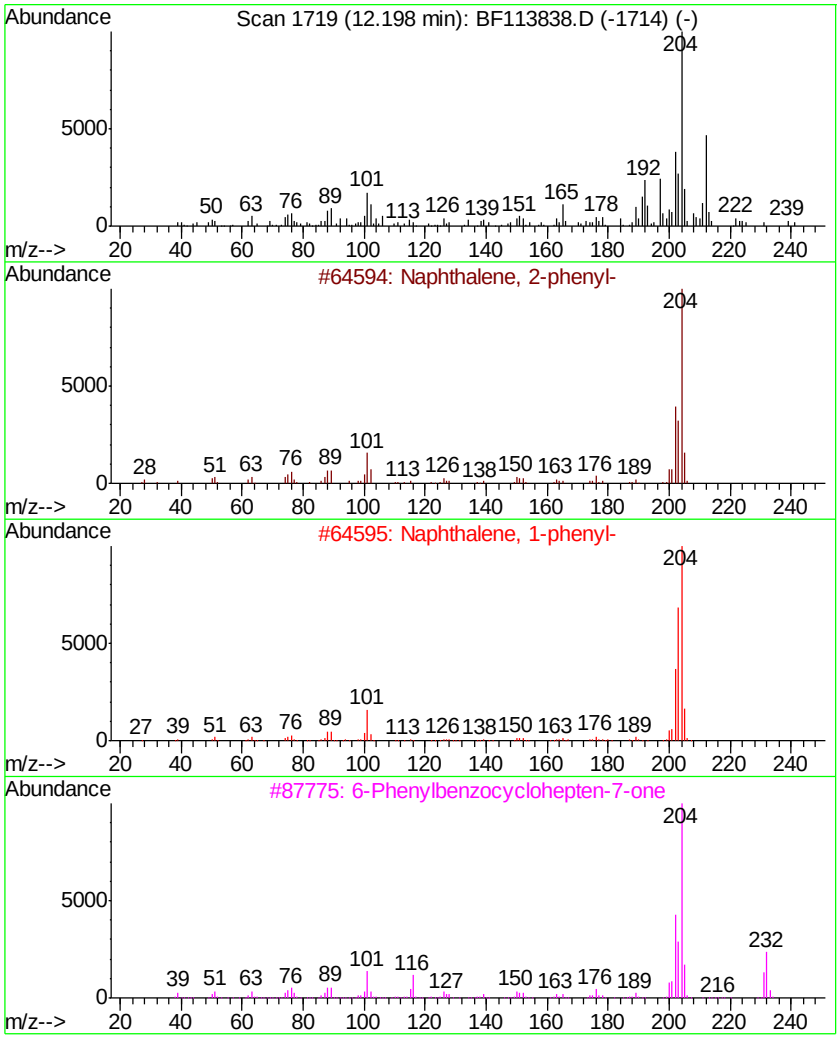
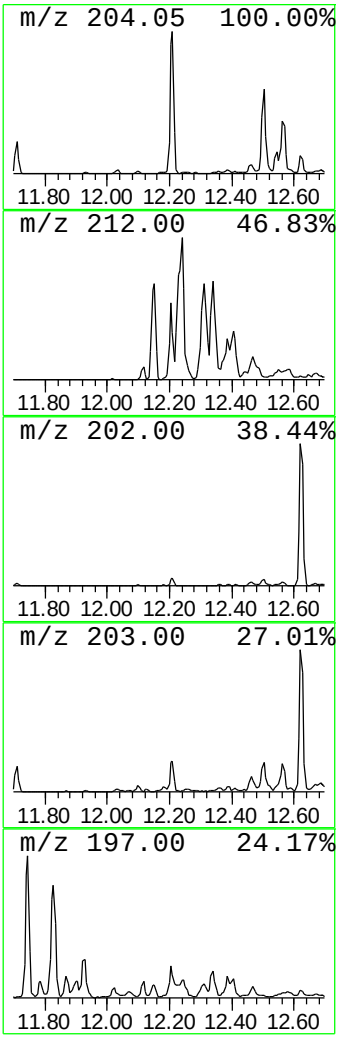
Peak Number 15 unknown12.20 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	5.80 ng	361915	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	68
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	55





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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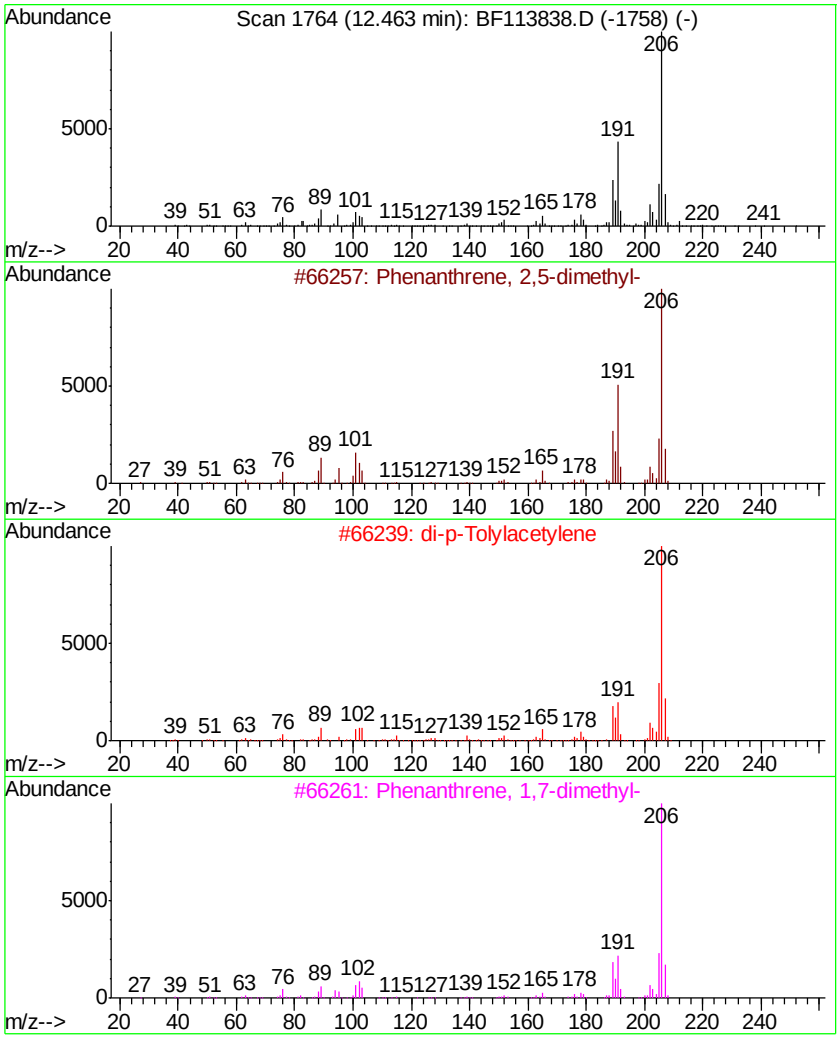
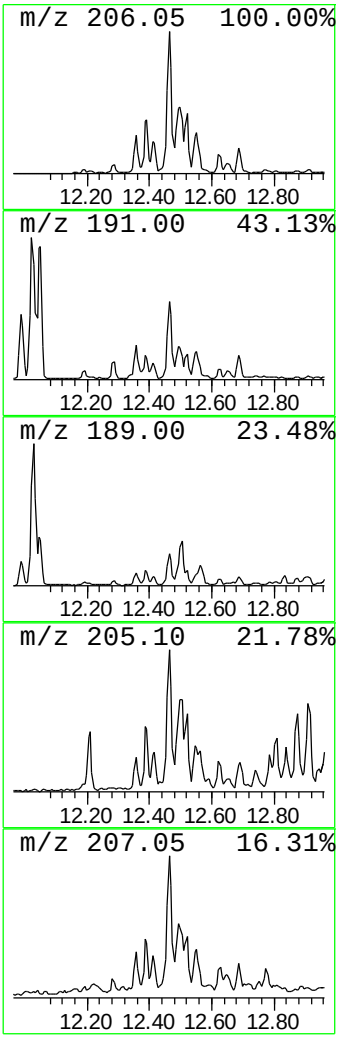
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	10.42 ng	650134	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91





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Sample : K2197-09 2X
Misc :
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Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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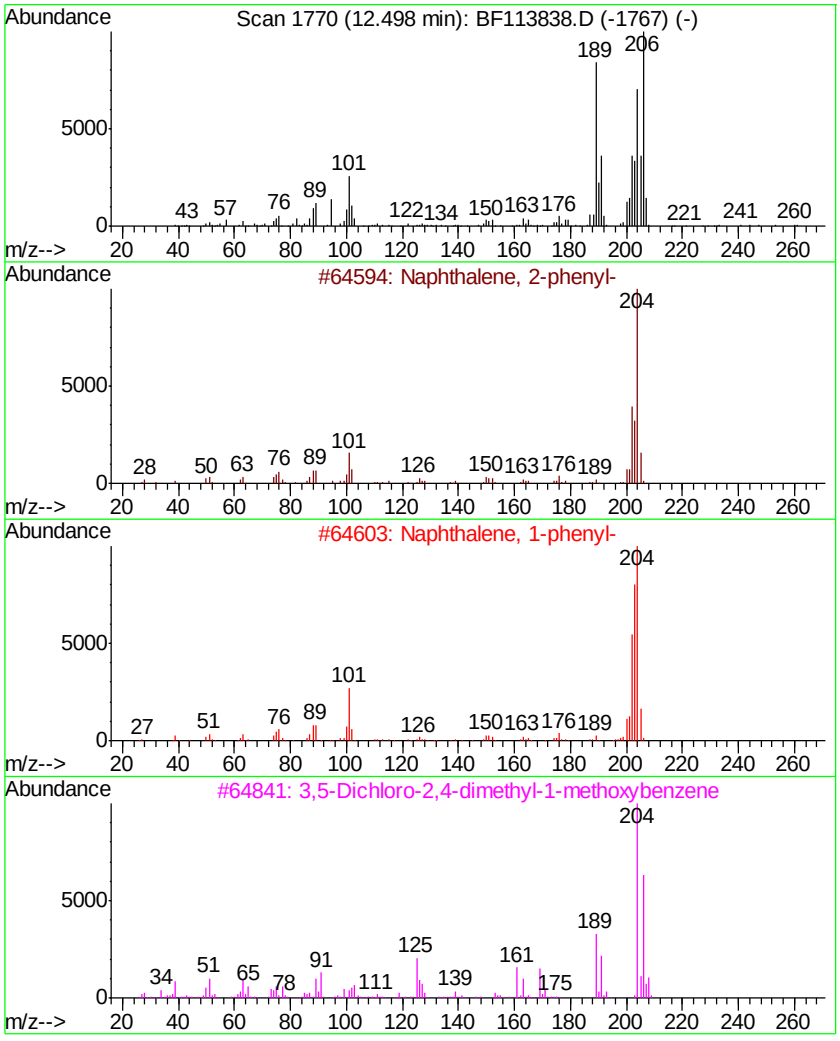
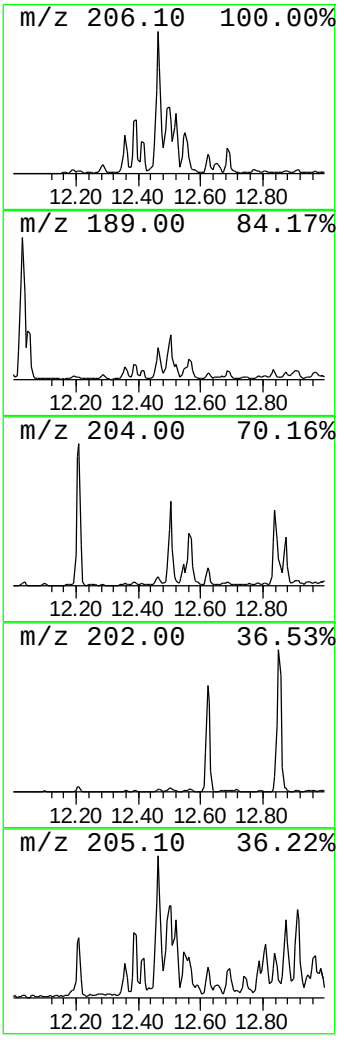
Peak Number 17 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	6.06 ng	378453	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	38
3	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	35
4	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	27
5	Benzaldehyde, 4-(phenylethynyl)-	206	C15H10O	057341-98-7	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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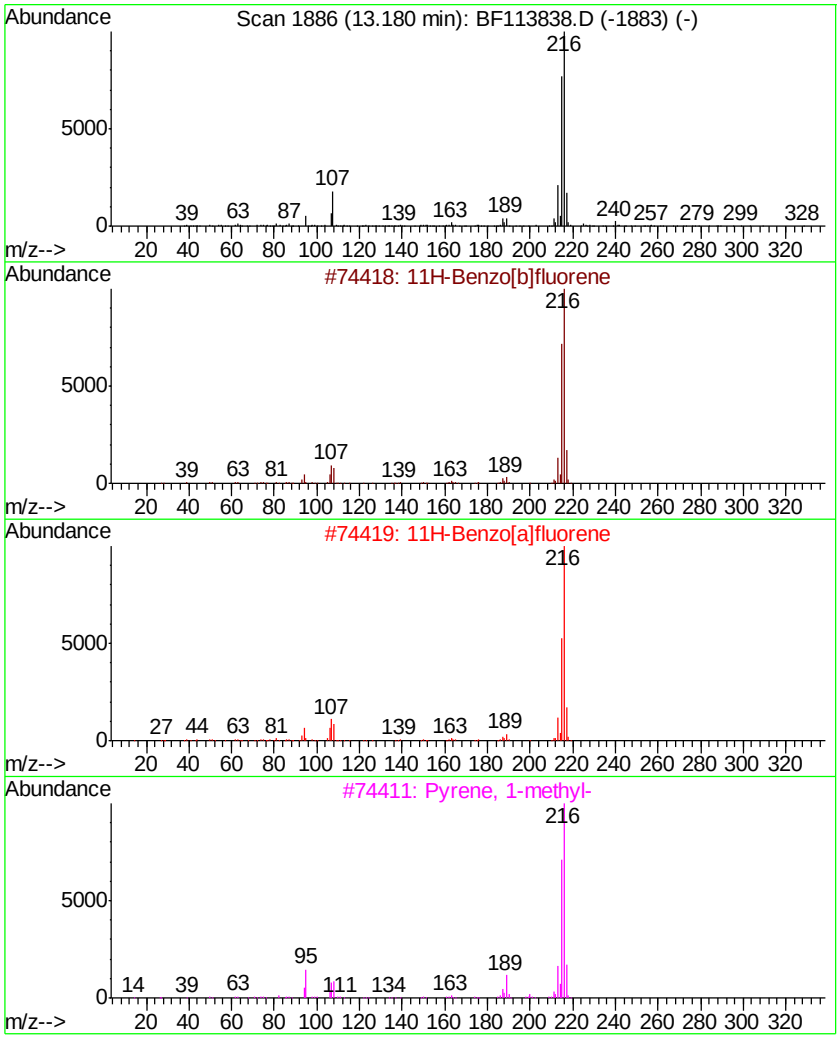
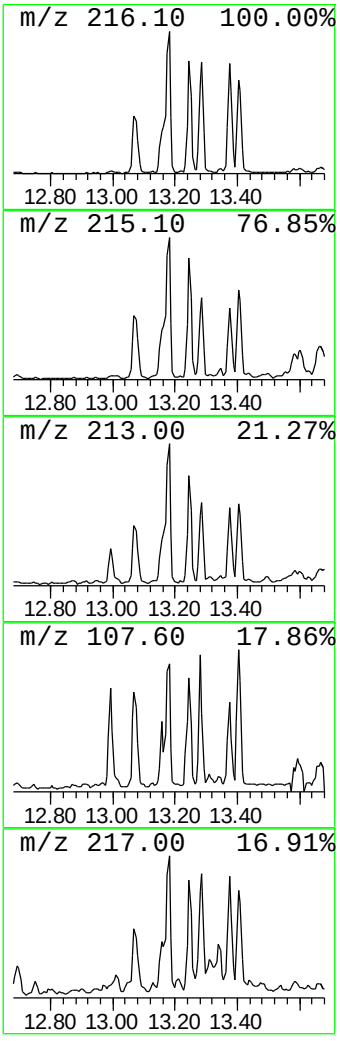
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	4.58 ng	546592	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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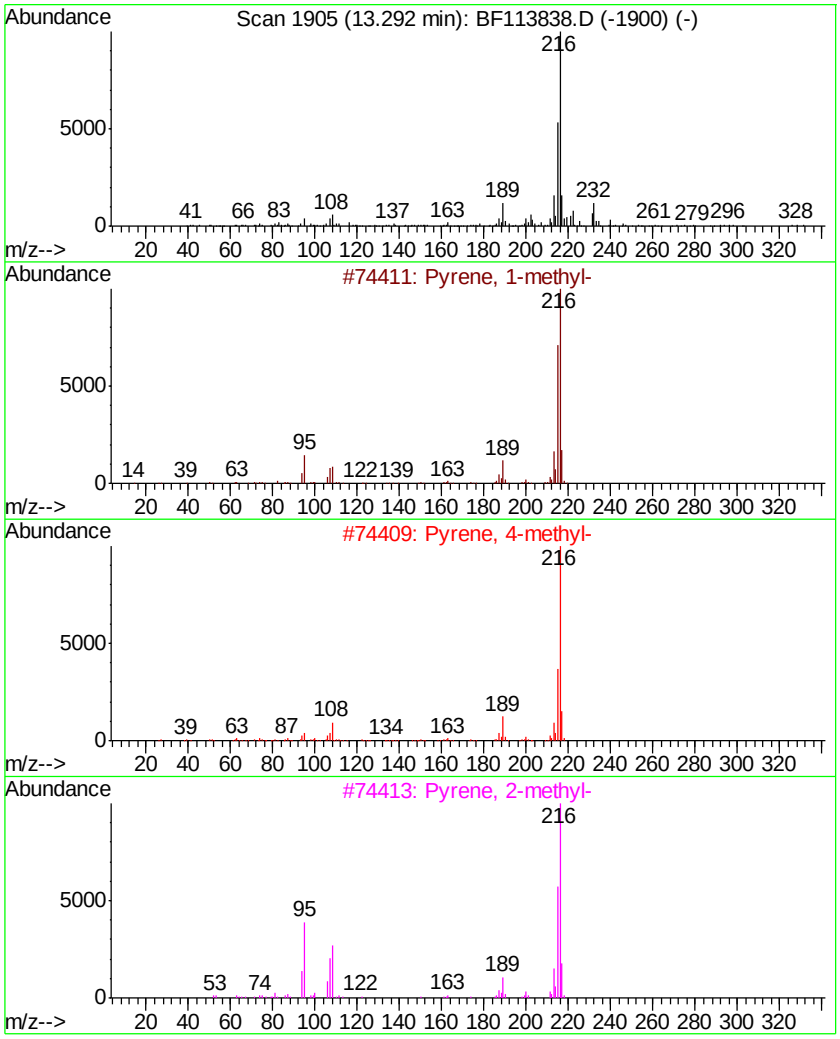
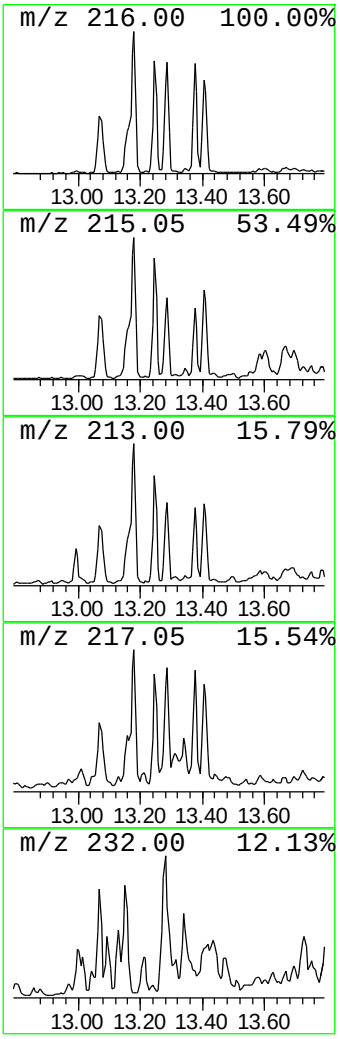
Peak Number 19 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	3.70 ng	441569	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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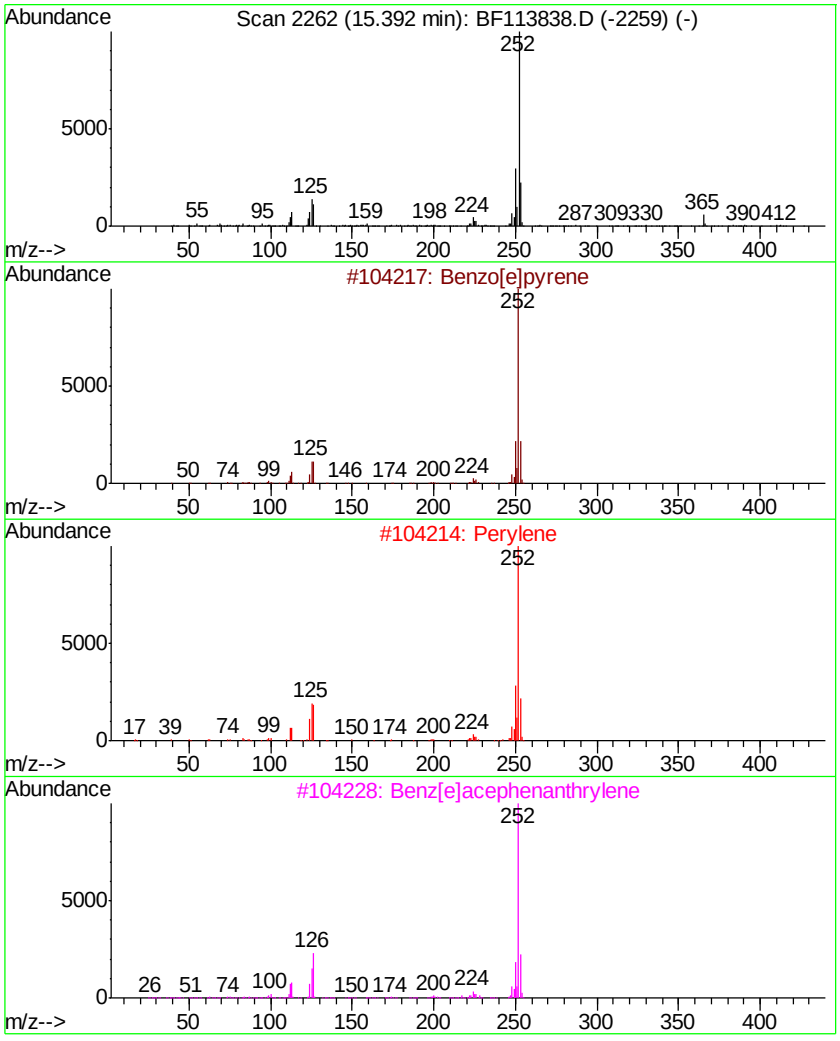
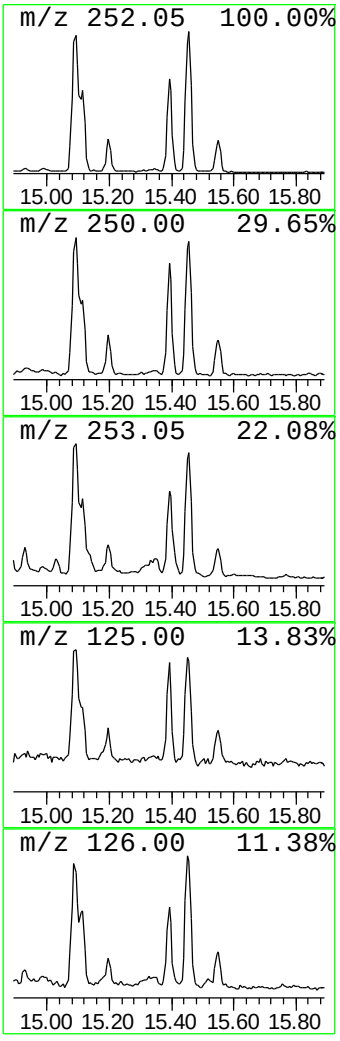
Peak Number 20 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	7.05 ng	319681	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041819\
Data File : BF113838.D
Acq On : 19 Apr 2019 1:20
Operator : JU/SJ
Sample : K2197-09 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-041619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.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
unknown6.66	6.66	32.4	ng	1375640	1	6.90	849756	20.0
Naphthalene, 2,6-...	9.52	7.8	ng	410725	3	9.93	1051550	20.0
Naphthalene, 2,3-...	9.59	9.7	ng	509172	3	9.93	1051550	20.0
Naphthalene, 1,4-...	9.70	4.1	ng	215623	3	9.93	1051550	20.0
Naphthalene, 2,3,...	10.13	3.9	ng	206839	3	9.93	1051550	20.0
9H-Fluorene, 2-me...	11.02	6.5	ng	407796	4	11.41	1248180	20.0
9H-Fluorene, 1-me...	11.05	3.7	ng	232443	4	11.41	1248180	20.0
Dibenzothiophene	11.31	3.8	ng	236784	4	11.41	1248180	20.0
Phenanthrene, 2-m...	11.92	11.5	ng	720107	4	11.41	1248180	20.0
unknown11.94	11.94	14.0	ng	872380	4	11.41	1248180	20.0
1H-Cyclopropa[l]p...	11.99	5.0	ng	311562	4	11.41	1248180	20.0
4H-Cyclopenta[def...	12.03	16.0	ng	1000180	4	11.41	1248180	20.0
Anthracene, 2-met...	12.05	8.0	ng	496963	4	11.41	1248180	20.0
unknown12.20	12.20	5.8	ng	361915	4	11.41	1248180	20.0
Phenanthrene, 2,5...	12.46	10.4	ng	650134	4	11.41	1248180	20.0
Naphthalene, 2-ph...	12.50	6.1	ng	378453	4	11.41	1248180	20.0
11H-Benzo[b]fluorene	13.18	4.6	ng	546592	5	14.04	2386720	20.0
Pyrene, 1-methyl-	13.29	3.7	ng	441569	5	14.04	2386720	20.0
Benzo[e]pyrene	15.39	7.0	ng	319681	6	15.52	906719	20.0