LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-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-BF110619.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	2.228	18	24	35	rVB	1389881	1827109	11.50%	0.510%
2	5.151	515	521	530	rVB	1669521	1912247	12.03%	0.534%
3	5.545	583	588	591	rBV	5584520	5202276	32.74%	1.452%
4	6.551	753	759	763	rBV	6190570	6310845	39.72%	1.762%
5	6.698	780	784	788	rBV	6063383	6204130	39.04%	1.732%
6	6.933	820	824	828	rBV	2402474	1868932	11.76%	0.522%
7	7.092	847	851	854	rVB	5956262	5006281	31.51%	1.398%
8	7.492	909	919	922	rBV	4249939	3966504	24.96%	1.107%
9	7.751	958	963	966	rBV	2638720	2394520	15.07%	0.668%
10	7.945	989	996	998	rBV	2172179	2576822	16.22%	0.719%
11	7.969	998	1000	1003	rVB	1769631	1349387	8.49%	0.377%
12	8.075	1012	1018	1022	rVB2	728397	934351	5.88%	0.261%
13	8.127	1022	1027	1030	rBV	3718610	3288327	20.69%	0.918%
14	8.222	1039	1043	1044	rBV	2820266	2389206	15.04%	0.667%
15	8.245	1044	1047	1050	rVB	7370710	6347079	39.94%	1.772%
16	8.827	1141	1146	1151	rVB	1504684	1392793	8.77%	0.389%
17	8.933	1161	1164	1167	rBV	2176845	1805958	11.37%	0.504%
18	9.033	1177	1181	1188	rVB	1592129	1603631	10.09%	0.448%
19	9.298	1221	1226	1229	rBV	7573181	7104795	44.71%	1.983%
20	9.457	1246	1253	1257	rBV2	927373	1098987	6.92%	0.307%
21	9.569	1265	1272	1275	rVB	1067811	1448973	9.12%	0.405%
22	9.639	1278	1284	1286	rBV	2263104	2230602	14.04%	0.623%
23	9.663	1286	1288	1290	rVV	1331343	1056945	6.65%	0.295%
24	9.757	1300	1304	1309	rBV	1405946	1445121	9.09%	0.403%
25	9.839	1313	1318	1321	rBV	1051087	849616	5.35%	0.237%
26	9.980	1339	1342	1345	rVB	2784745	2210156	13.91%	0.617%
27	10.086	1356	1360	1364	rBV	1533709	1985608	12.50%	0.554%
28	10.186	1373	1377	1380	rVB	2999051	2854527	17.96%	0.797%
29	10.227	1380	1384	1387	rVB	3648446	3398180	21.39%	0.949%
30	10.298	1392	1396	1399	rBV	2842611	2980013	18.75%	0.832%
31	10.327	1399	1401	1404	rVB	4590860	3591746	22.60%	1.003%
32	10.392	1406	1412	1414	rBV	3069359	4523580	28.47%	1.263%
33	10.410	1414	1415	1418	rVB	2973464	1508863	9.50%	0.421%
34	10.480	1420	1427	1430	rBV3	1903616	2461916	15.49%	0.687%

LSC Area Percent Report

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Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-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-BF110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.533	1430	1436	1438	rBV3	5297350	6277184	39.50%	1.752%
36	10.557	1438	1440	1442	rVV2	2080777	2279004	14.34%	0.636%
37	10.604	1442	1448	1453	rVV4	7619438	14168166	89.17%	3.955%
38	10.645	1453	1455	1457	rVV	3424293	2969723	18.69%	0.829%
39	10.686	1457	1462	1464	rVV4	3267000	5946735	37.42%	1.660%
40	10.739	1468	1471	1472	rBV2	1080402	1167064	7.34%	0.326%
41	10.774	1472	1477	1481	rVV3	4954489	7308389	45.99%	2.040%
42	10.810	1481	1483	1489	rVB2	3394466	4122599	25.95%	1.151%
43	10.880	1489	1495	1496	rBV	2508838	3204001	20.16%	0.894%
44	10.898	1496	1498	1503	rVB	4739425	4557840	28.68%	1.272%
45	10.951	1503	1507	1509	rBV	1223080	1431318	9.01%	0.400%
46	10.974	1509	1511	1514	rVV3	3247821	4123630	25.95%	1.151%
47	11.021	1517	1519	1521	rVV2	1531334	1583779	9.97%	0.442%
48	11.080	1521	1529	1533	rVV3	7509611	15871125	99.88%	4.431%
49	11.121	1533	1536	1539	rVV2	9843864	12699425	79.92%	3.545%
50	11.174	1543	1545	1547	rVV	5003292	4054973	25.52%	1.132%
51	11.204	1547	1550	1552	rVV3	2936041	3520016	22.15%	0.983%
52	11.227	1552	1554	1560	rVV4	3577365	6208283	39.07%	1.733%
53	11.280	1560	1563	1566	rVV3	2090564	2081388	13.10%	0.581%
54	11.327	1566	1571	1576	rVV5	1750760	4226034	26.60%	1.180%
55	11.374	1576	1579	1591	rVB5	2374356	4468959	28.12%	1.248%
56	11.480	1591	1597	1598	rBV	2937857	3214341	20.23%	0.897%
57	11.515	1598	1603	1605	rVV	11842361	15889758	100.00%	4.436%
58	11.557	1608	1610	1612	rVV	2250724	2046626	12.88%	0.571%
59	11.592	1612	1616	1619	rVV	5422189	8477767	53.35%	2.367%
60	11.621	1619	1621	1622	rVV	3739891	3232155	20.34%	0.902%
61	11.639	1622	1624	1629	rVV3	2855549	5183432	32.62%	1.447%
62	11.680	1629	1631	1634	rVB3	1324172	1311315	8.25%	0.366%
63	11.715	1634	1637	1642	rBV2	2055617	3286012	20.68%	0.917%
64	11.798	1649	1651	1652	rBV	1279604	1183667	7.45%	0.330%
65	11.810	1652	1653	1656	rVB	1416532	778174	4.90%	0.217%
66	11.992	1678	1684	1686	rBV	9025877	11807383	74.31%	3.296%
67	12.021	1686	1689	1692	rVB	9818402	9559743	60.16%	2.669%
68	12.063	1692	1696	1699	rBV2	2091785	3284589	20.67%	0.917%
69	12.092	1699	1701	1704	rVV2	4430331	5089468	32.03%	1.421%
70	12.121	1704	1706	1709	rVB	5132673	4017744	25.29%	1.122%
71	12.163	1710	1713	1715	rBV2	789032	797387	5.02%	0.223%

LSC Area Percent Report

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Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-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-BF110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.204	1719	1720	1723	rVB3	879271	734211	4.62%	0.205%
73	12.251	1723	1728	1730	rBV3	668254	982365	6.18%	0.274%
74	12.274	1730	1732	1735	rVB	2013205	1642635	10.34%	0.459%
75	12.351	1743	1745	1751	rVB2	1107705	1241565	7.81%	0.347%
76	12.427	1751	1758	1761	rVV2	3895091	5152444	32.43%	1.438%
77	12.457	1761	1763	1765	rVV	3891056	3544748	22.31%	0.990%
78	12.480	1765	1767	1770	rVV	2102659	1781638	11.21%	0.497%
79	12.533	1773	1776	1779	rVV	3760119	4271308	26.88%	1.192%
80	12.563	1779	1781	1784	rVV3	2160558	2768404	17.42%	0.773%
81	12.586	1784	1785	1788	rVV	1326848	1134629	7.14%	0.317%
82	12.615	1788	1790	1796	rVV	2457215	2618144	16.48%	0.731%
83	12.698	1800	1804	1808	rVV	4767131	4639165	29.20%	1.295%
84	12.739	1808	1811	1812	rVV	778975	729354	4.59%	0.204%
85	12.757	1812	1814	1818	rVV	1200867	1347881	8.48%	0.376%
86	12.815	1821	1824	1828	rVV2	690025	837013	5.27%	0.234%
87	12.927	1838	1843	1844	rVV	5237843	5577022	35.10%	1.557%
88	12.951	1844	1847	1850	rVV	9451519	10318178	64.94%	2.881%
89	12.980	1850	1852	1855	rVB	999643	879824	5.54%	0.246%
90	13.027	1855	1860	1863	rBV2	619677	828433	5.21%	0.231%
91	13.068	1863	1867	1873	rVB	5744323	6091850	38.34%	1.701%
92	13.145	1876	1880	1882	rVV2	1058052	1473181	9.27%	0.411%
93	13.251	1896	1898	1901	rVV	1255883	1014390	6.38%	0.283%
94	13.315	1906	1909	1912	rVV	1282769	1098684	6.91%	0.307%
95	13.357	1912	1916	1918	rVV	838565	826243	5.20%	0.231%
96	13.751	1976	1983	1989	rVB2	400132	976247	6.14%	0.273%
97	13.957	2015	2018	2029	rVB2	926402	943510	5.94%	0.263%
98	14.121	2040	2046	2049	rBV2	2475565	2996064	18.86%	0.836%
99	15.180	2222	2226	2230	rBV	514680	809835	5.10%	0.226%
100	15.633	2298	2303	2306	rVV	1956533	2380040	14.98%	0.664%

Sum of corrected areas: 358198227

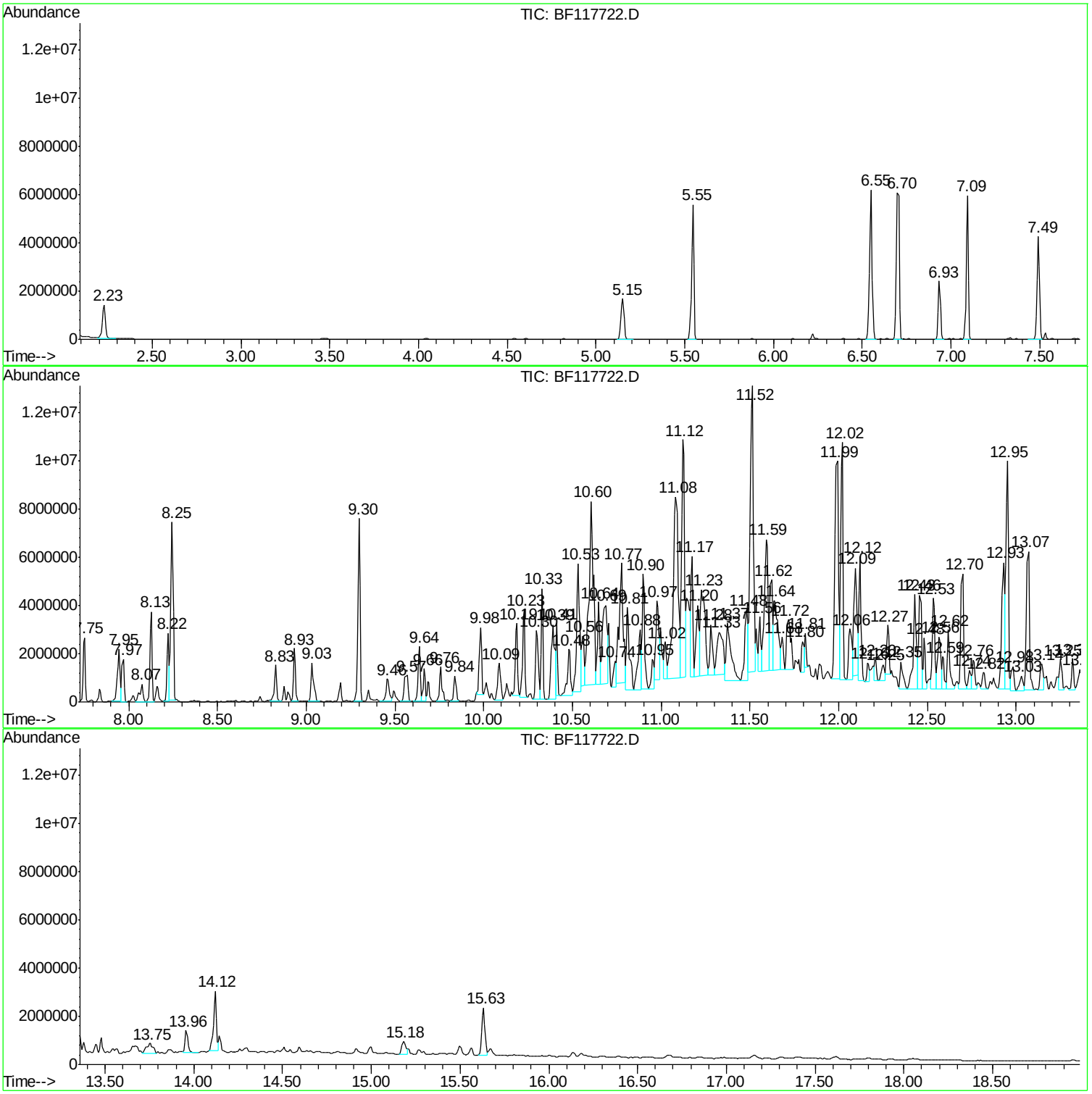
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
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Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

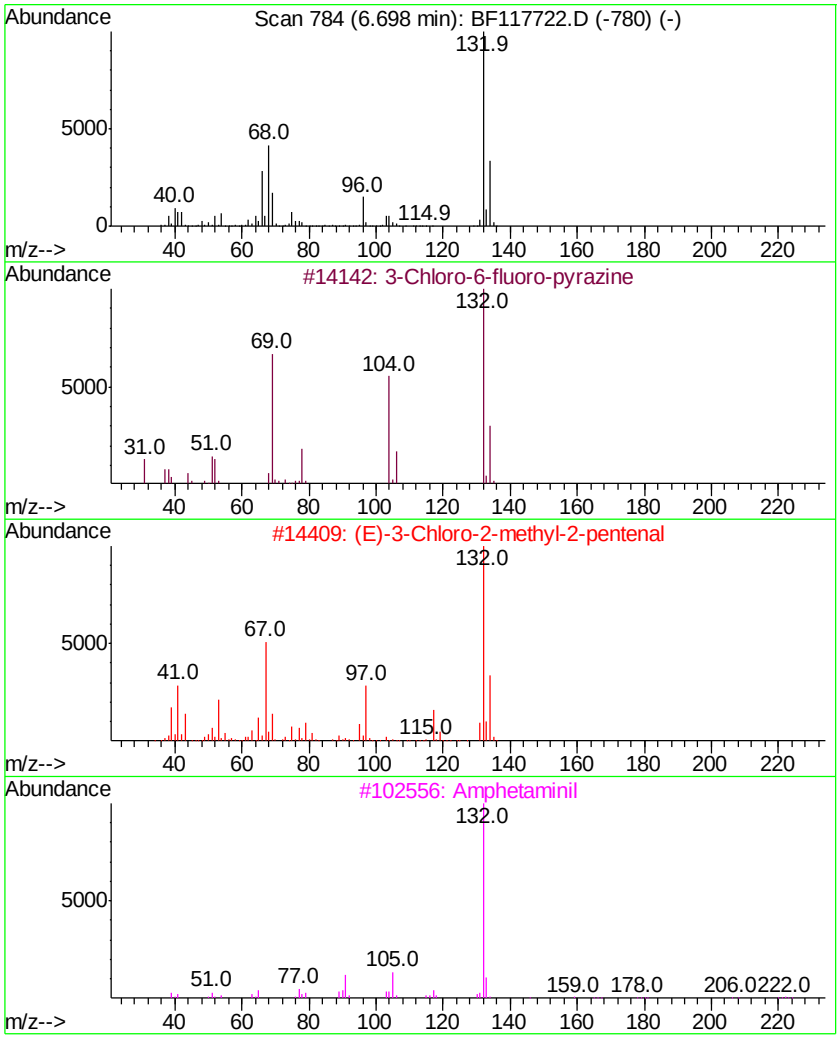
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

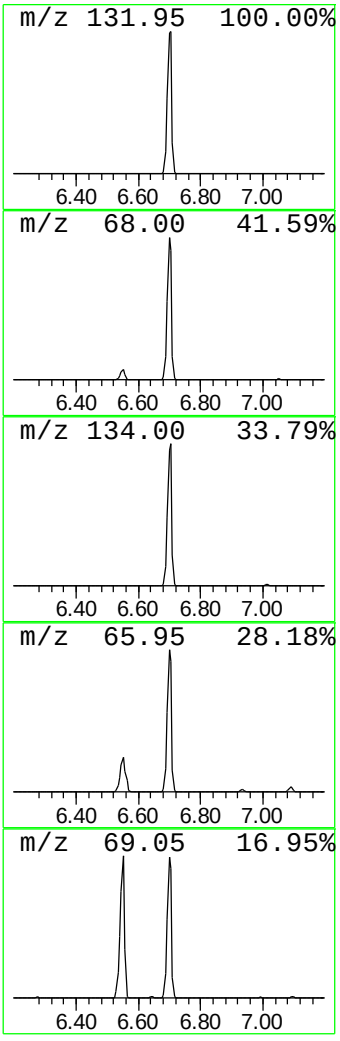
****

Peak Number 1 unknown6.70 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	66.39 ng	6204130	1,4-Dichlorobenzene-d4	6.93

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	17
3	Amphetaminil	250	C17H18N2	017590-01-1	10
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

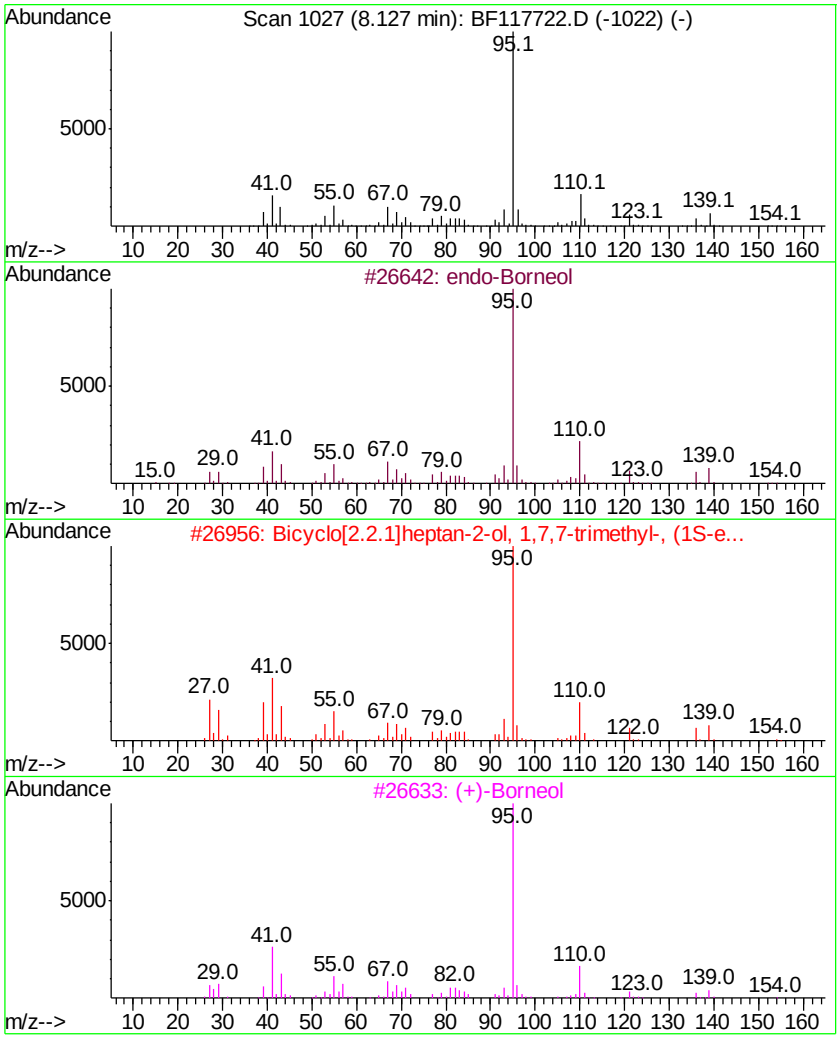
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

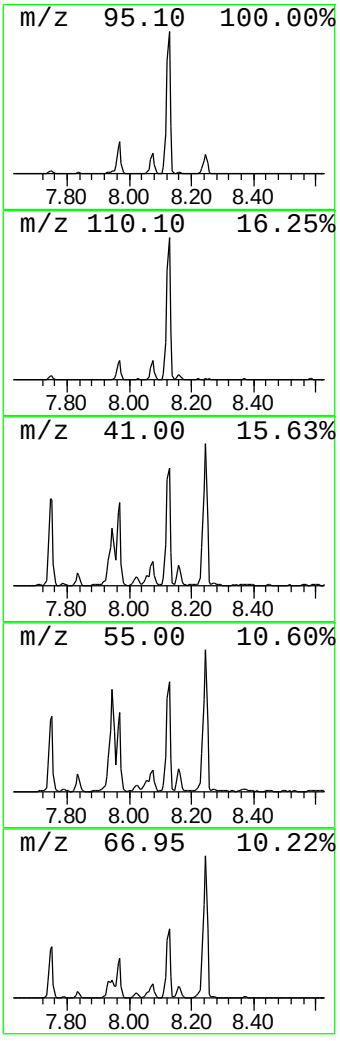
****

Peak Number 3 endo-Borneol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.13	27.53 ng	3288330	Naphthalene-d8	8.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	endo-Borneol	154	C10H18O	000507-70-0	92
2	Bicyclo[2.2.1]heptan-2-ol, 1,7,7...	154	C10H18O	000464-45-9	91
3	(+)-Borneol	154	C10H18O	1000150-76-3	72
4	2-Amino-4-methylbut-2-enenitrile	110	C6H10N2	1000197-39-9	64
5	Furan, 2-ethyl-5-methyl-	110	C7H10O	001703-52-2	59





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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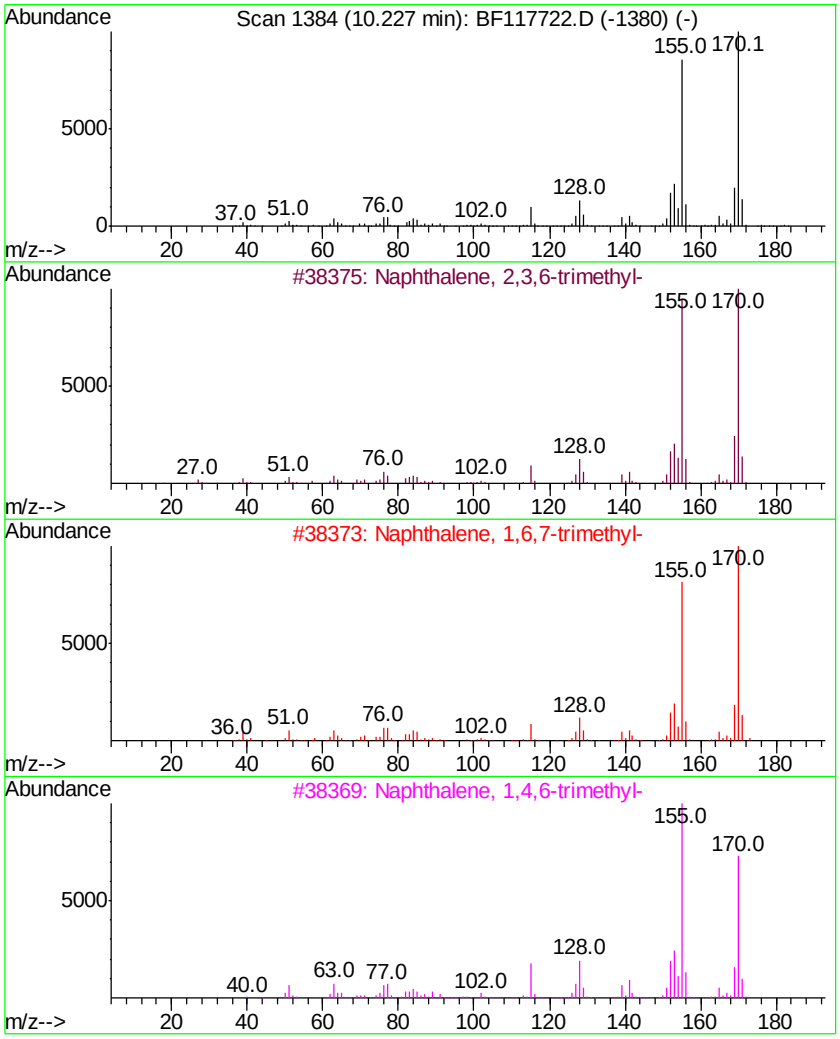
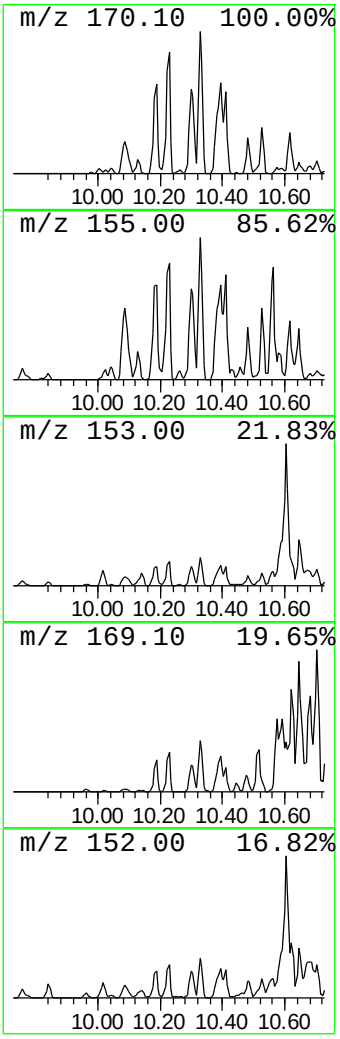
Peak Number 4 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.23	30.75 ng	3398180	Acenaphthene-d10	9.98

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	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

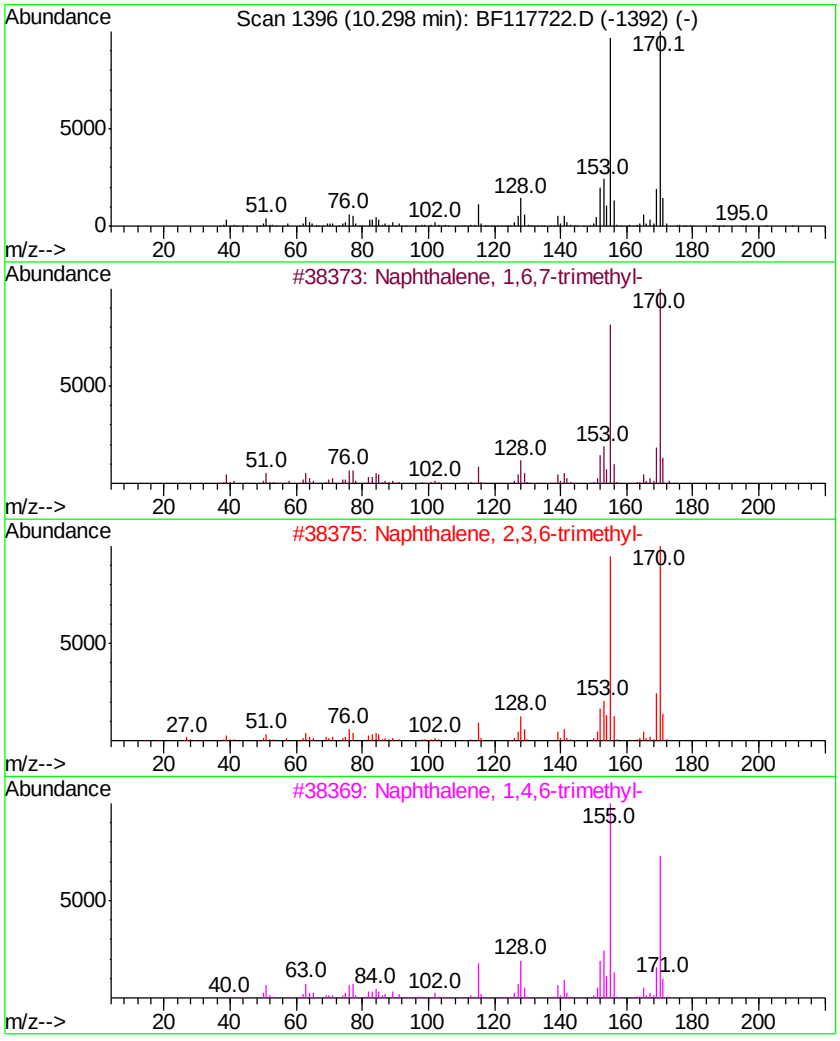
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

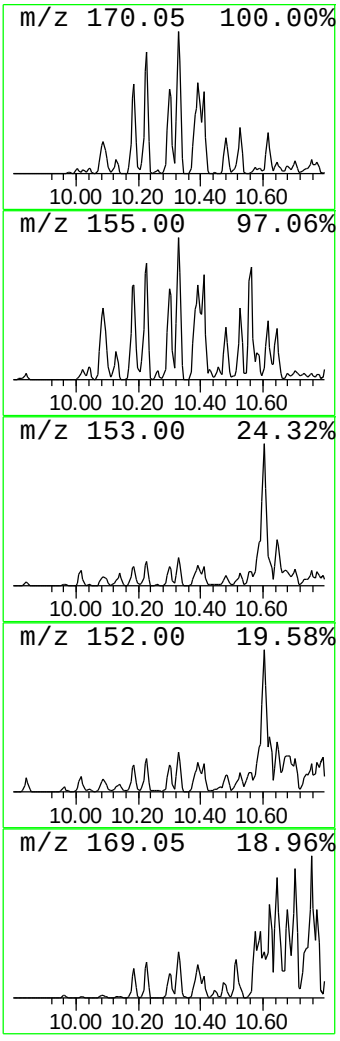
****

Peak Number 5 Naphthalene, 1,6,7-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.30	26.97 ng	2980010	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	93





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Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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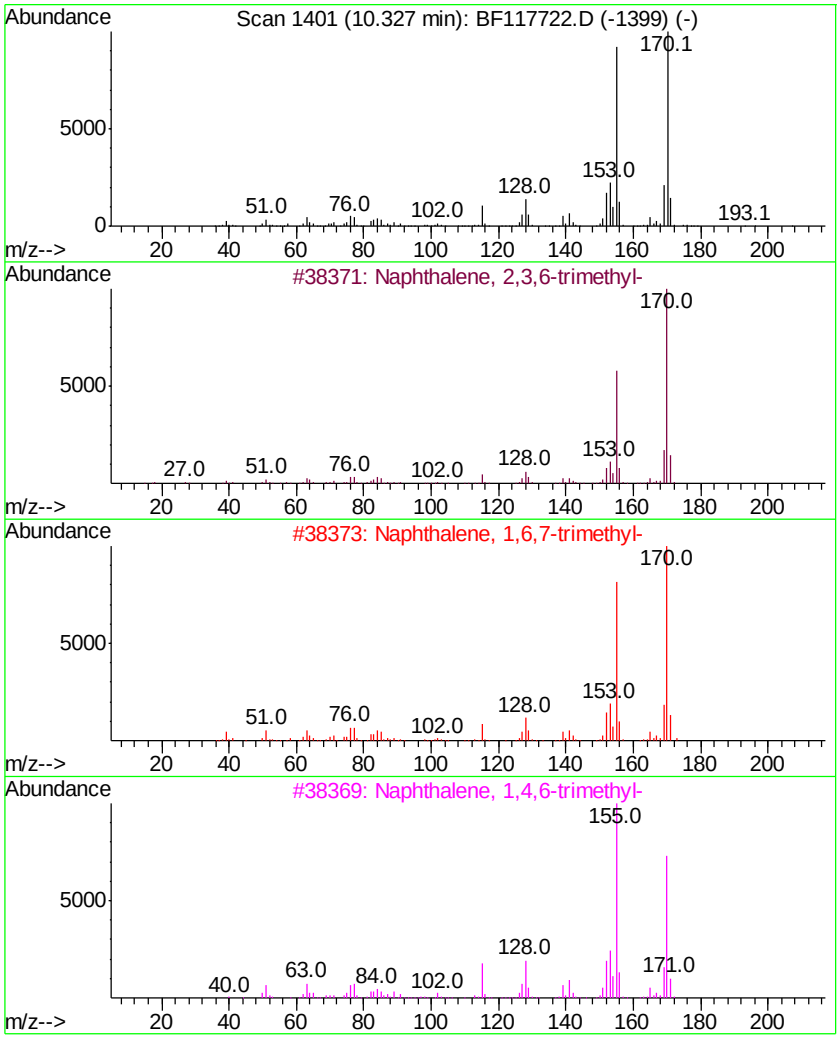
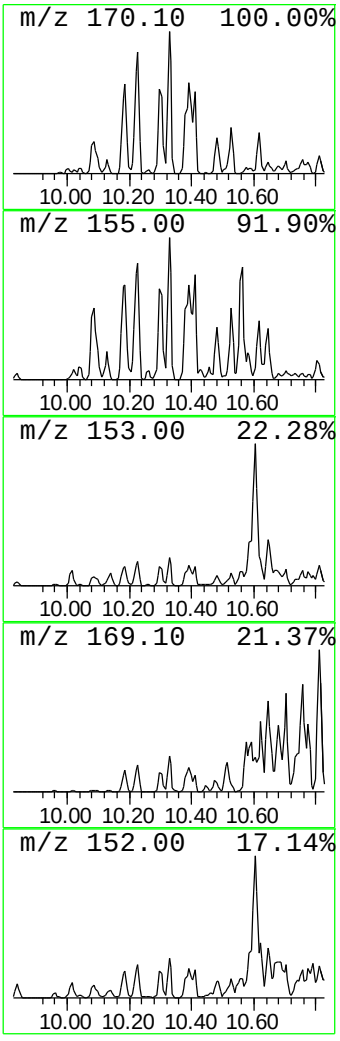
Peak Number 6 Naphthalene, 1,4,6-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.33	32.50 ng	3591750	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	94
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93





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Sample : K5722-05
Misc :
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ClientSampleId : 5-A

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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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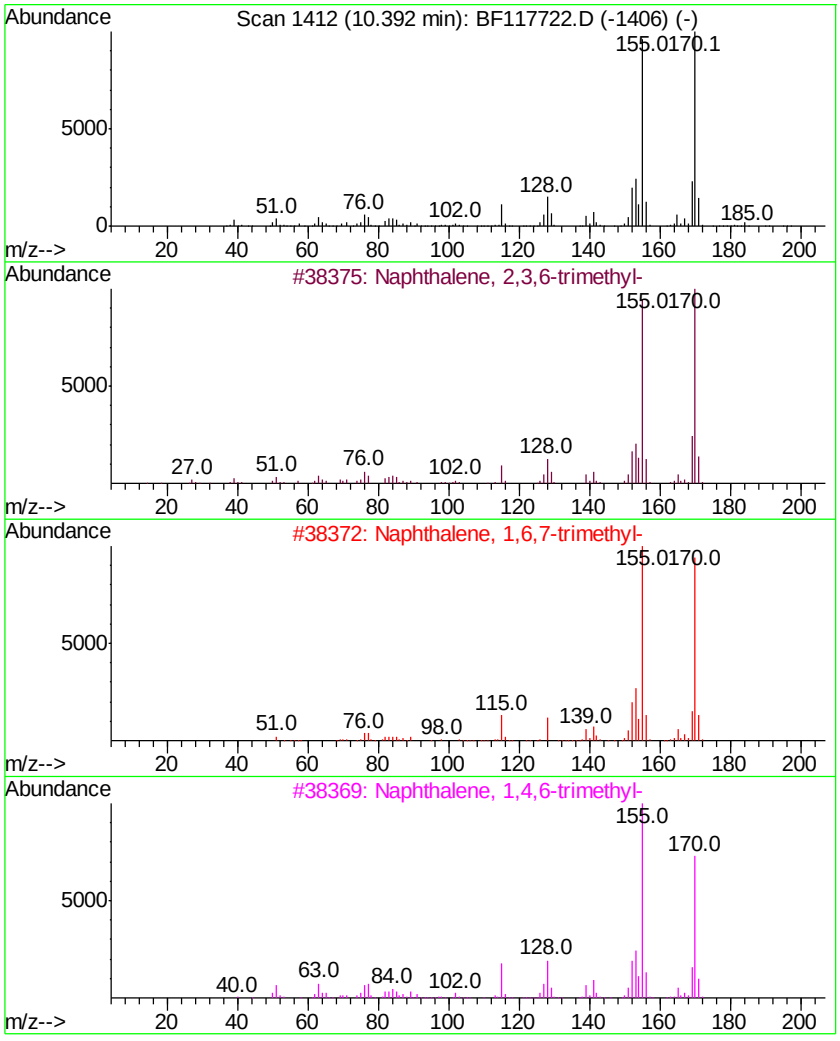
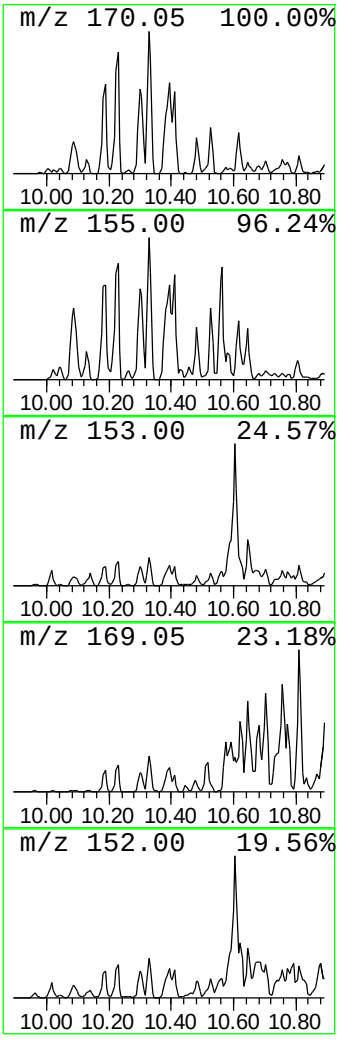
Peak Number 7 4,6,8-Trimethylazulene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.39	40.93 ng	4523580	Acenaphthene-d10	9.98

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	98
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	93
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	91





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ClientSampleId : 5-A

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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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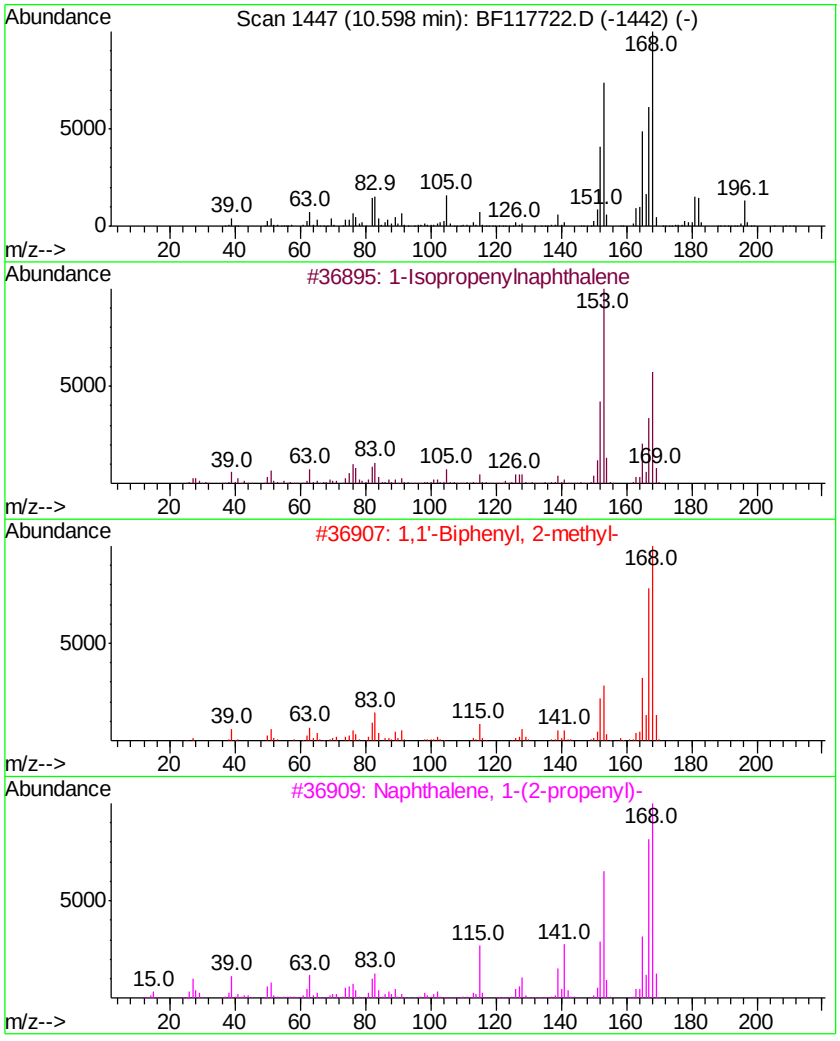
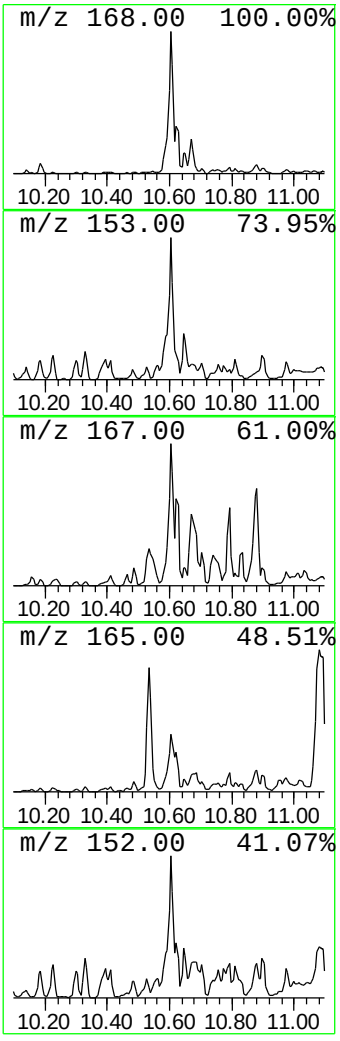
Peak Number 8 1-Isopropenylnaphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	128.21 ng	14168200	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	81
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	53
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	53
4	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	49
5	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	38





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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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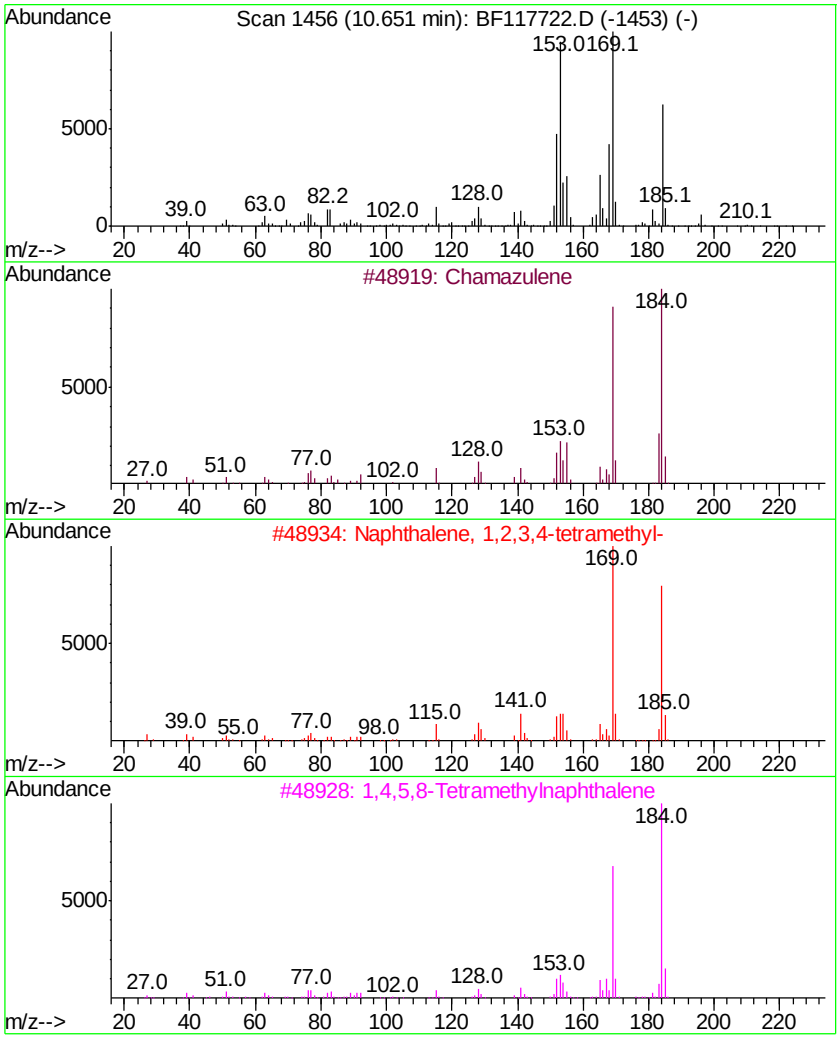
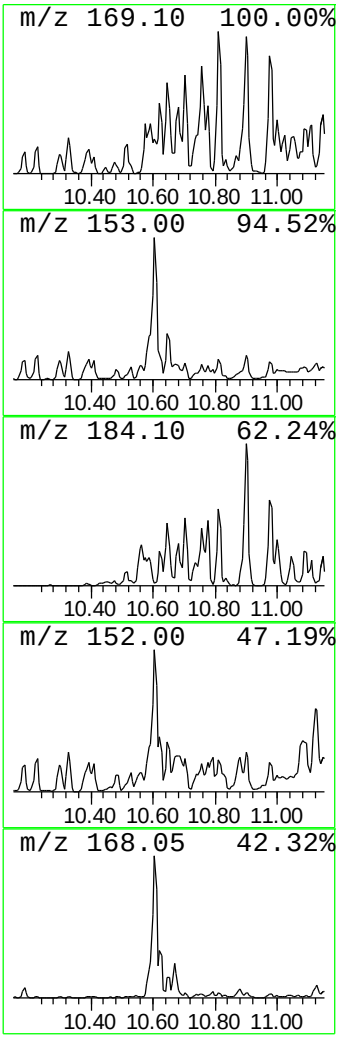
Peak Number 9 Chamazulene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.65	26.87 ng	2969720	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	83
2	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	60
3	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	58
4	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	52
5	Phenol, 3,4,5-trimethoxy-	184	C9H12O4	000642-71-7	46





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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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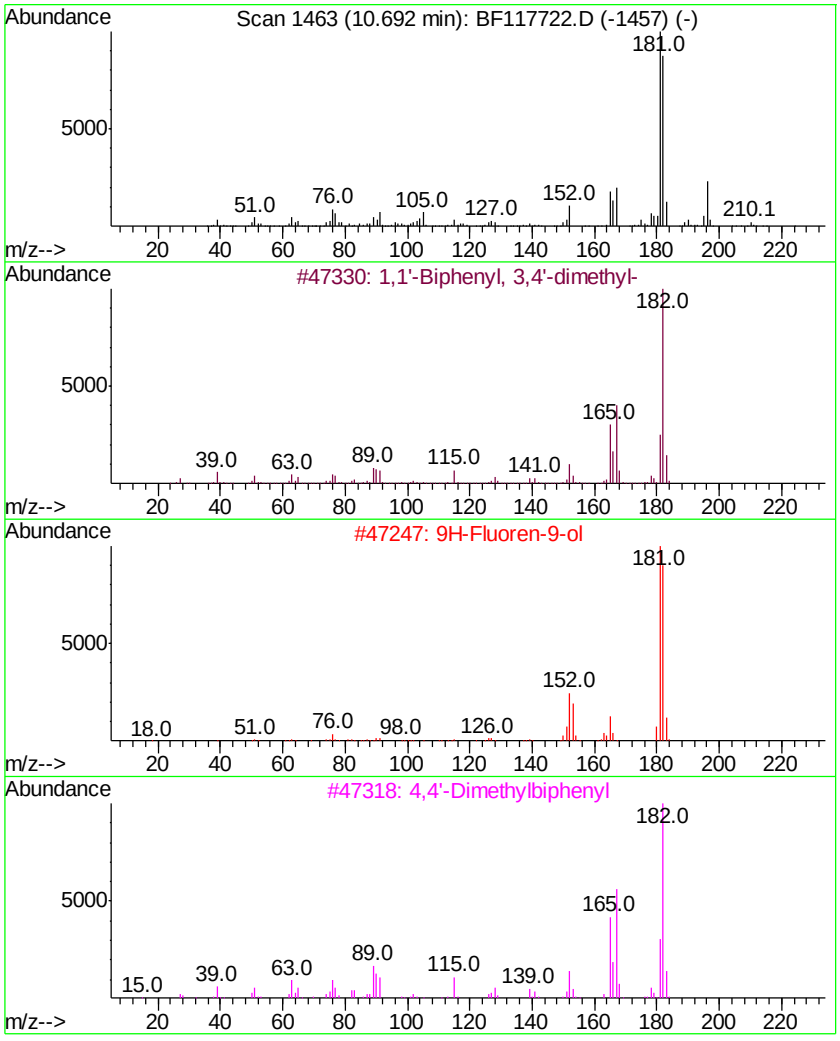
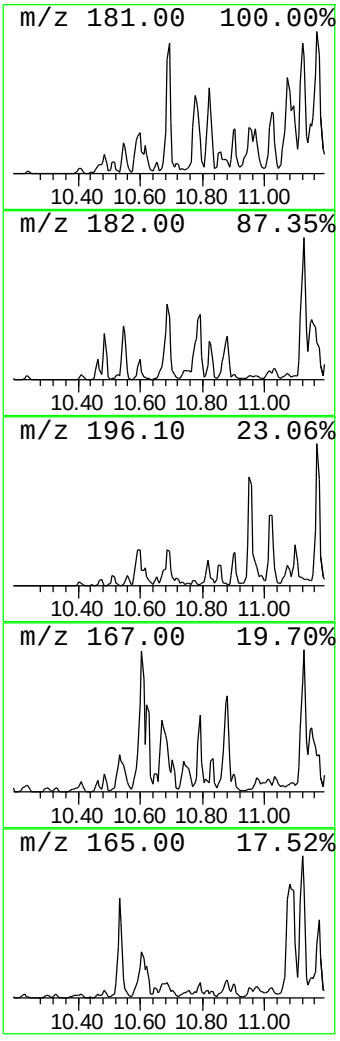
Peak Number 10 1,1'-Biphenyl, 3,4'-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.69	53.81 ng	5946740	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	70
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	64
3	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	64
4	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	64
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	53





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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 11 1,4,5,8-Tetramethylnaphthalene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	28.36 ng	4557840	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	93
2	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	93
3	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	74
4	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	74
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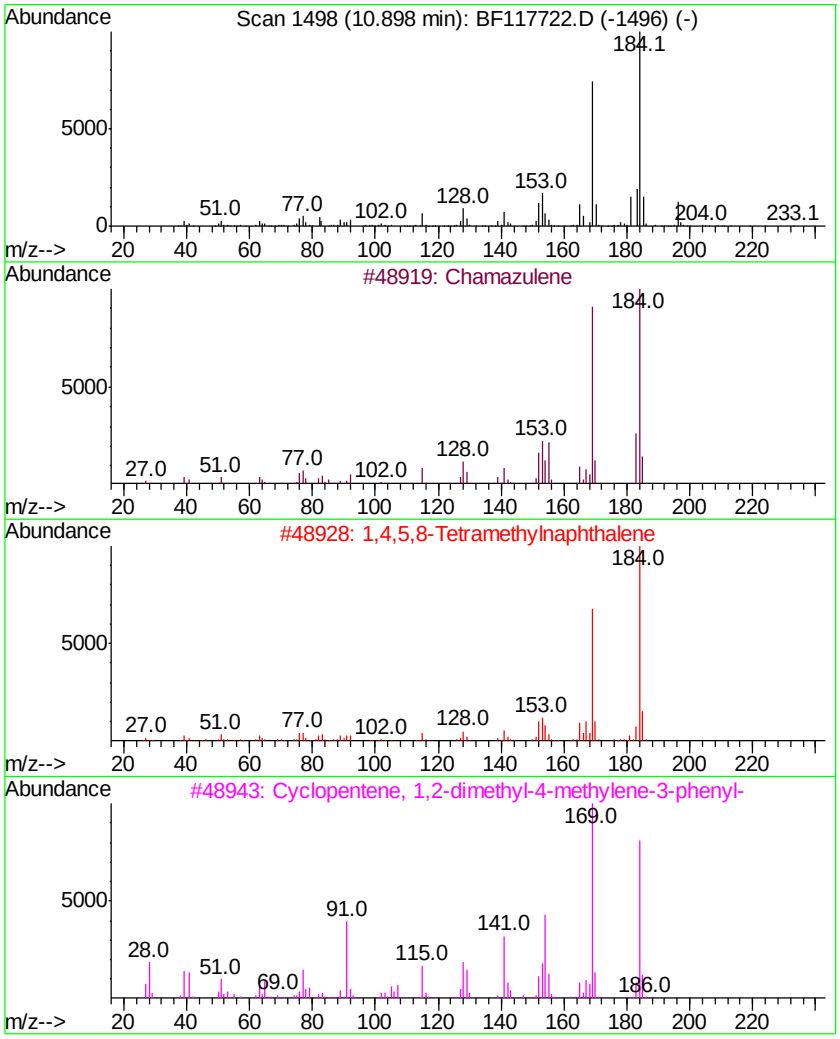

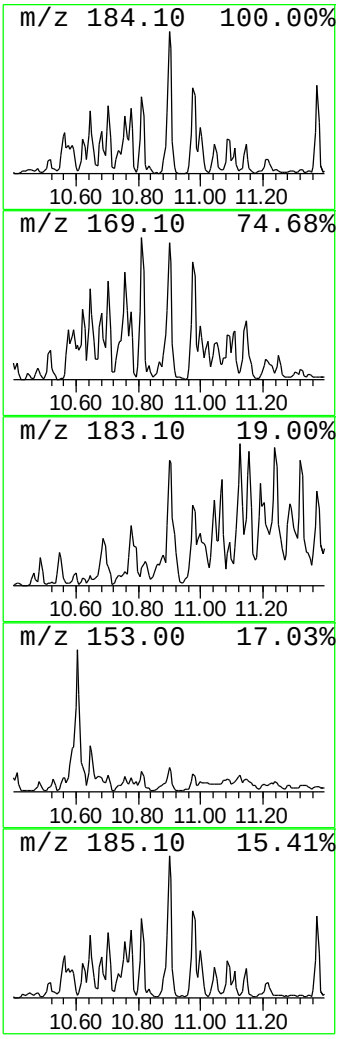

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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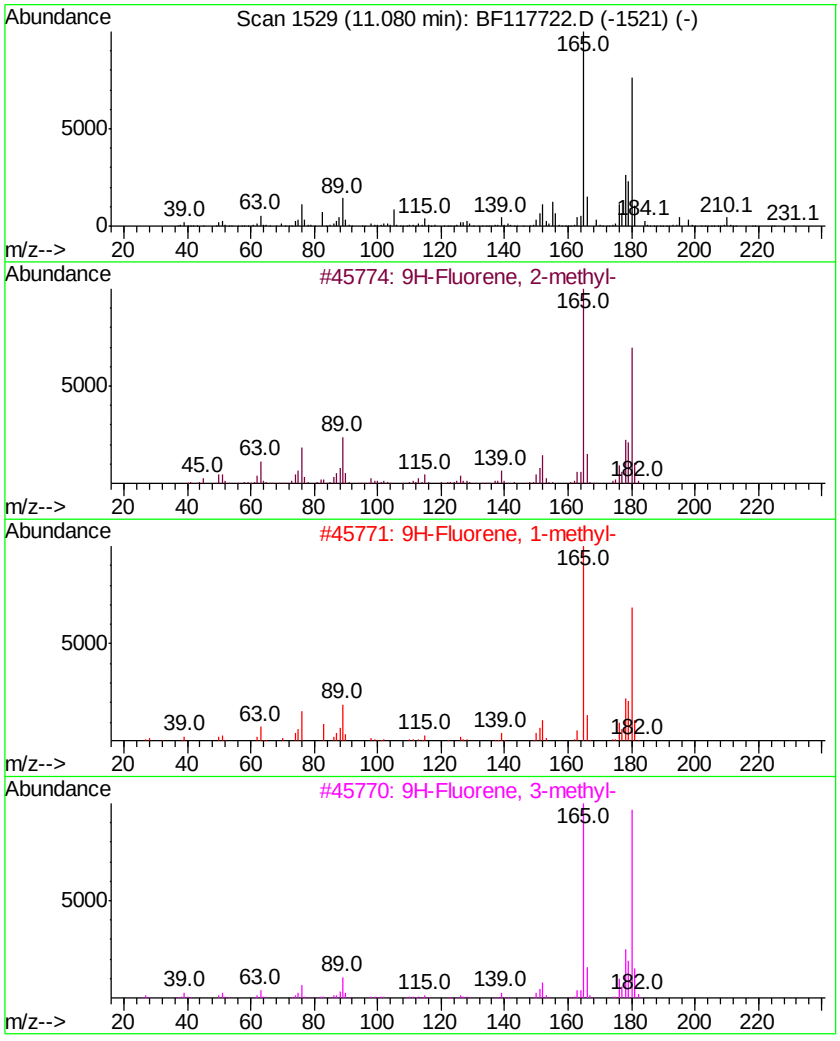
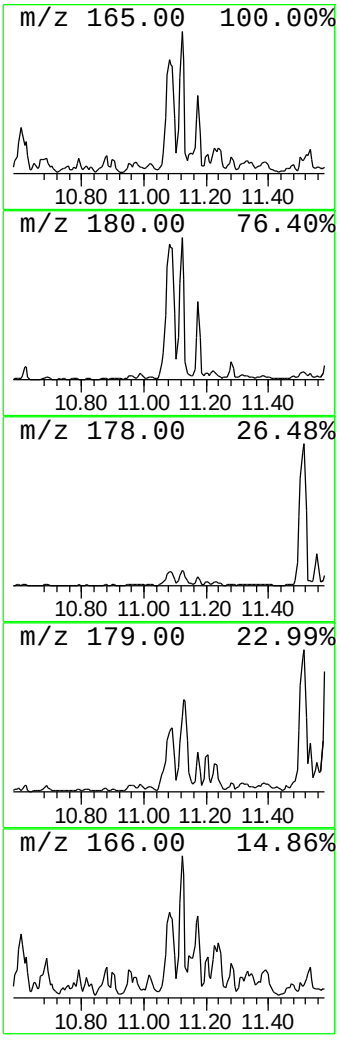
Peak Number 12 9H-Fluorene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	98.75 ng	15871100	Phenanthrene-d10	11.48

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	89
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81





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Sample : K5722-05
Misc :
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Instrument : BNA_F
ClientSampleId : 5-A

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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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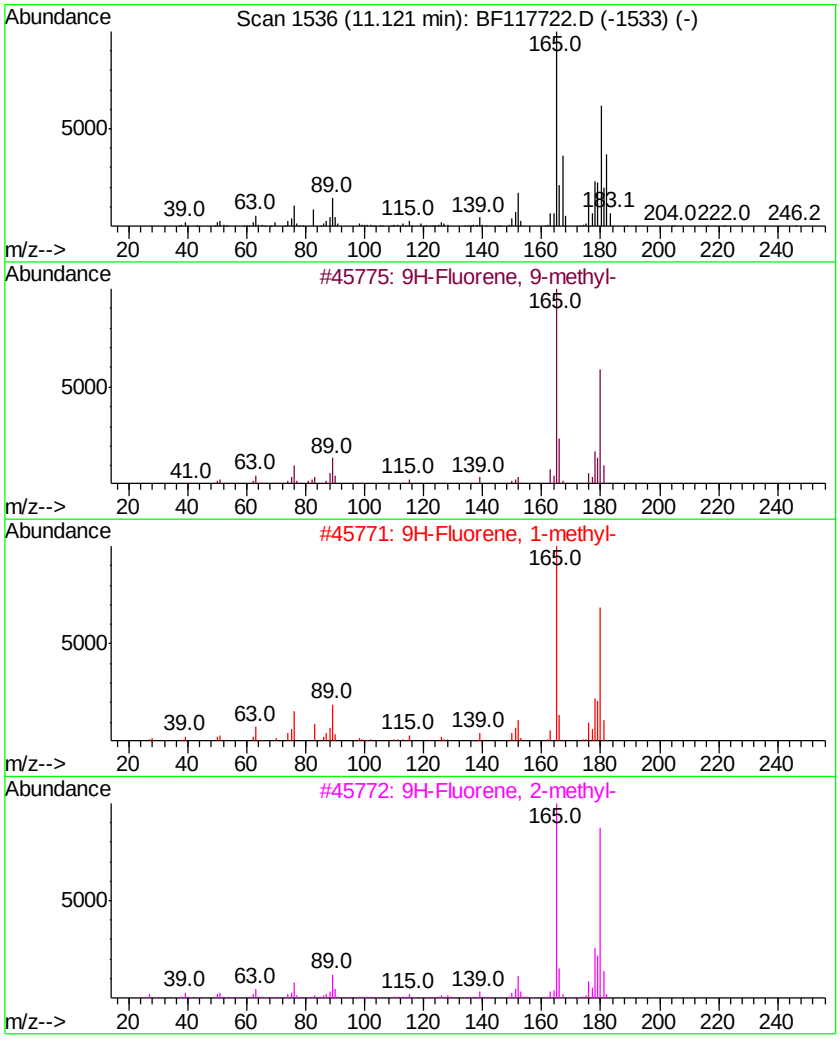
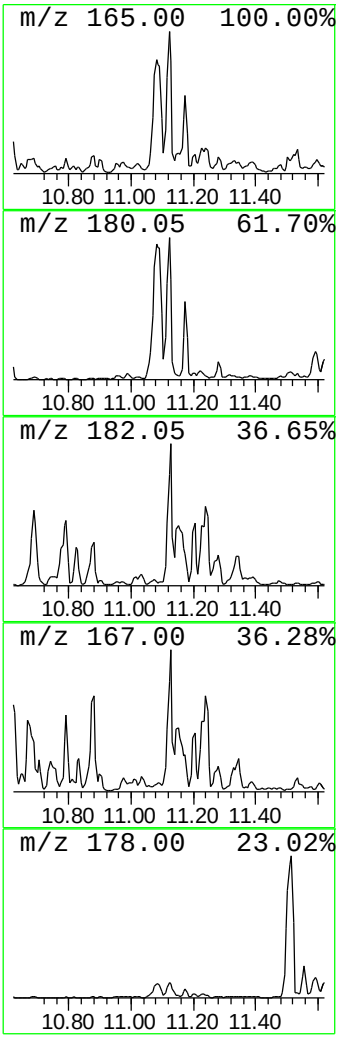
Peak Number 13 9H-Fluorene, 9-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	79.02 ng	12699400	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	78
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	64
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	64
5	Benzenethiol, 4-(1,1-dimethyleth...	180	C11H16S	015570-10-2	58





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Instrument : BNA_F
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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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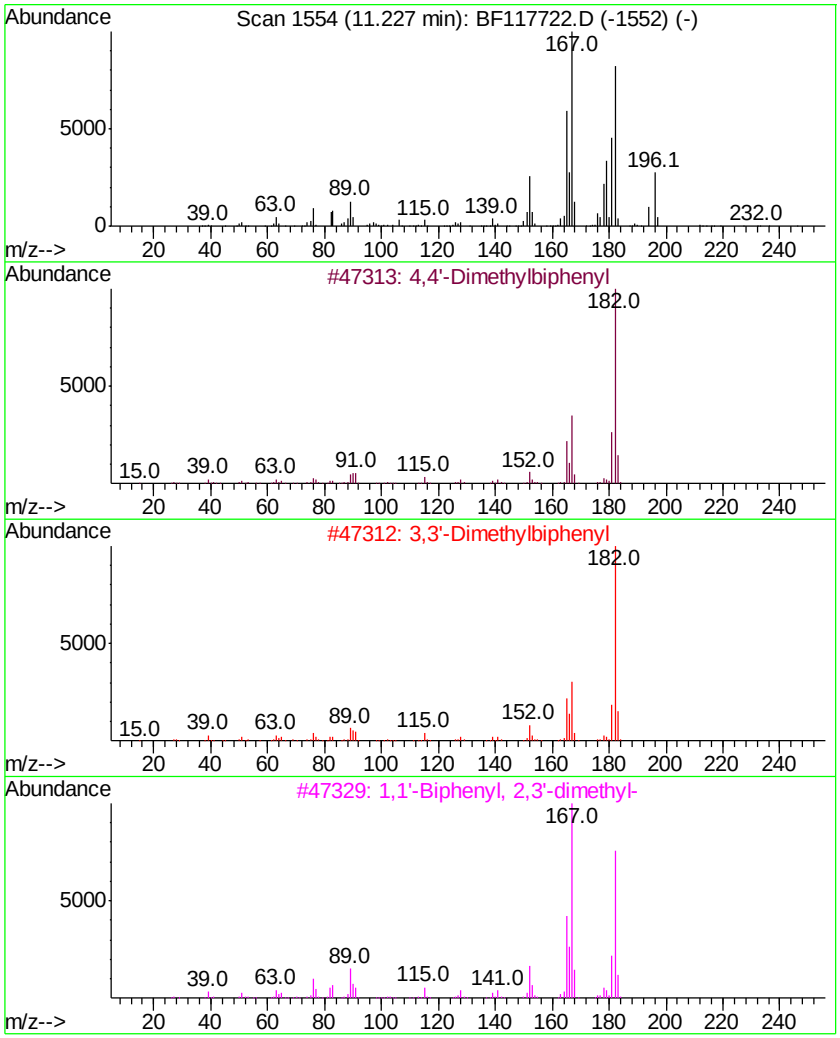
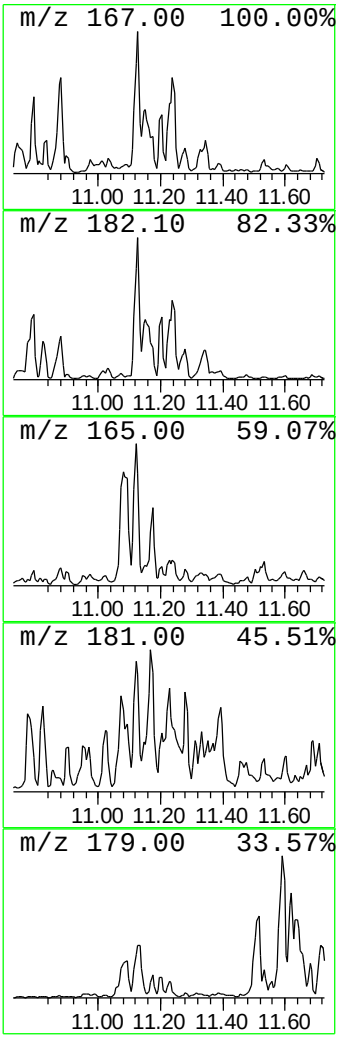
Peak Number 14 4,4'-Dimethylbiphenyl Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	38.63 ng	6208280	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	68
2	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	60
3	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	60
4	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	60
5	1,1'-Biphenyl, 2-ethyl-	182	C14H14	001812-51-7	53





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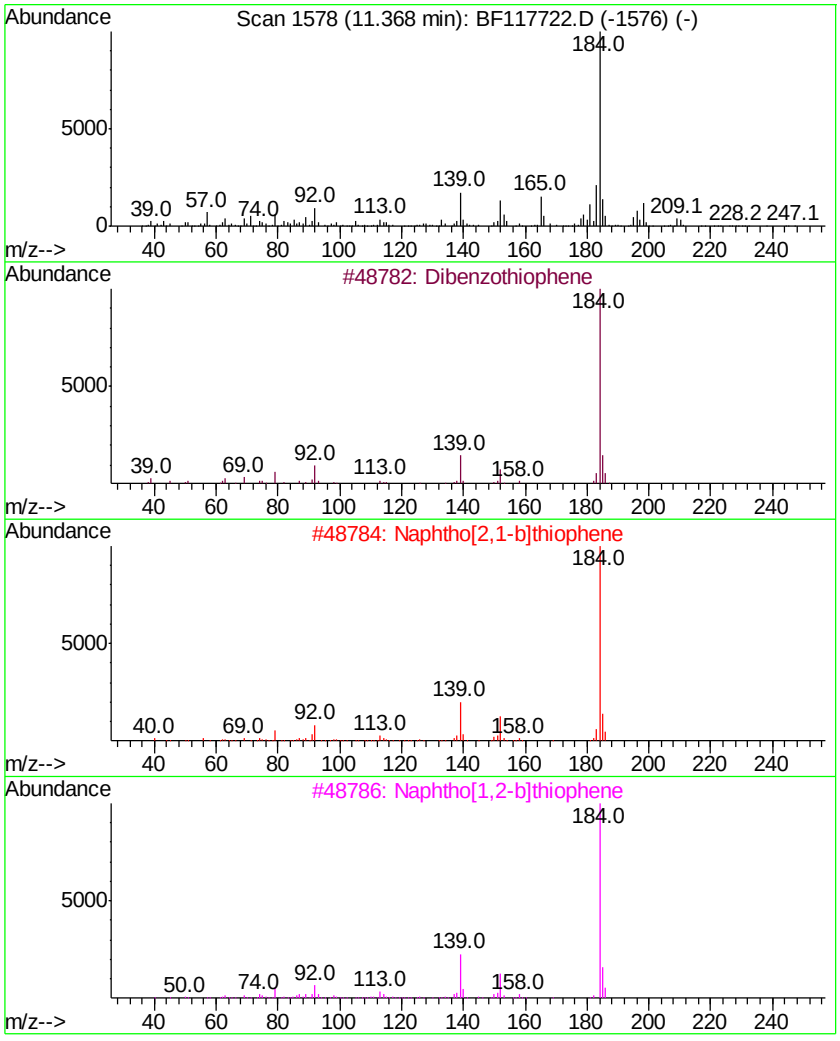
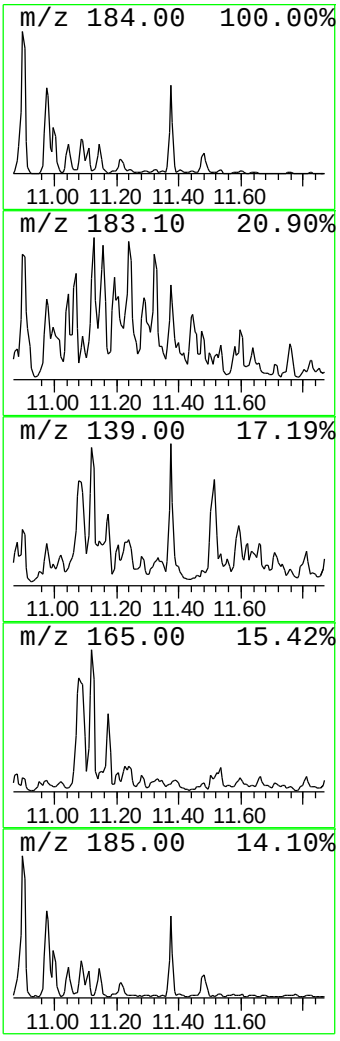
Peak Number 15 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	27.81 ng	4468960	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	89
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	89
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	74





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

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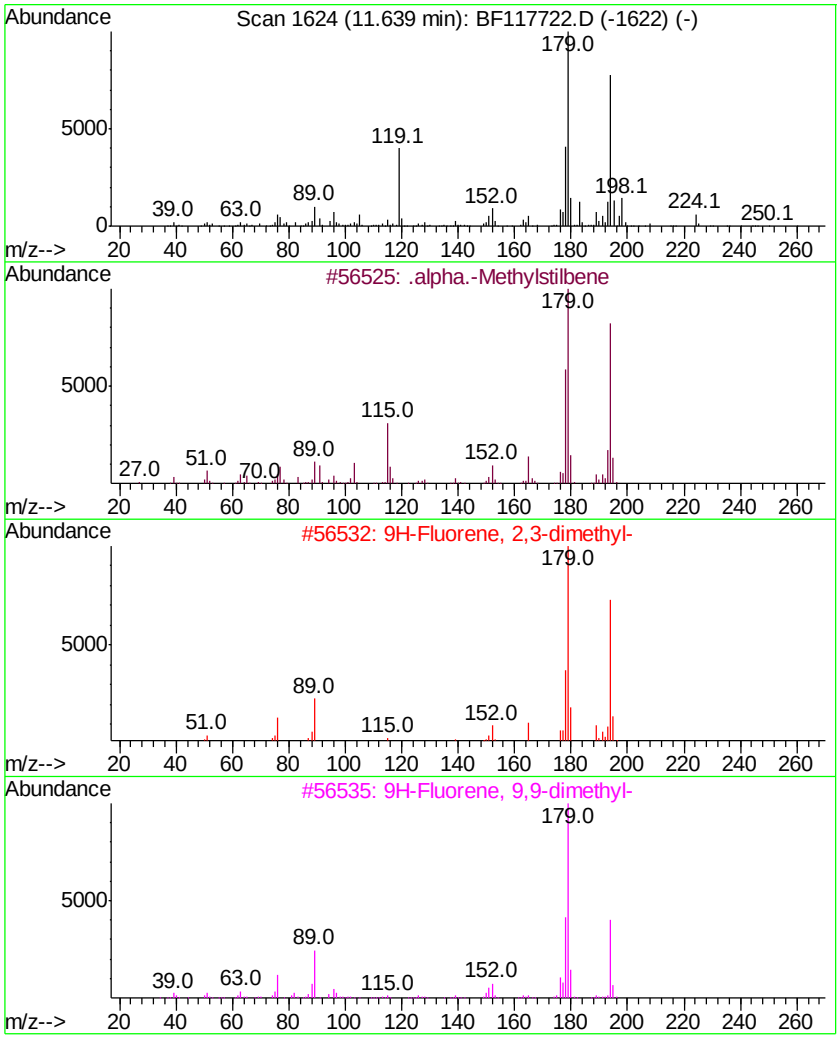
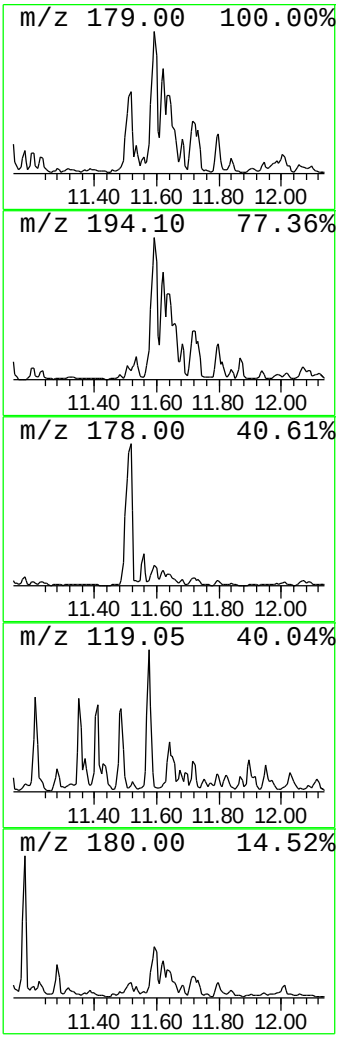
Peak Number 16 .alpha.-Methylstilbene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.64	32.25 ng	5183430	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methylstilbene	194	C15H14	000779-51-1	93
2	9H-Fluorene, 2,3-dimethyl-	194	C15H14	004612-63-9	89
3	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	76
4	Stilbene, .alpha.-methyl-, (E)-	194	C15H14	000833-81-8	64
5	Benzene, 1-methyl-2-(2-phenyleth...	194	C15H14	074685-42-0	64





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

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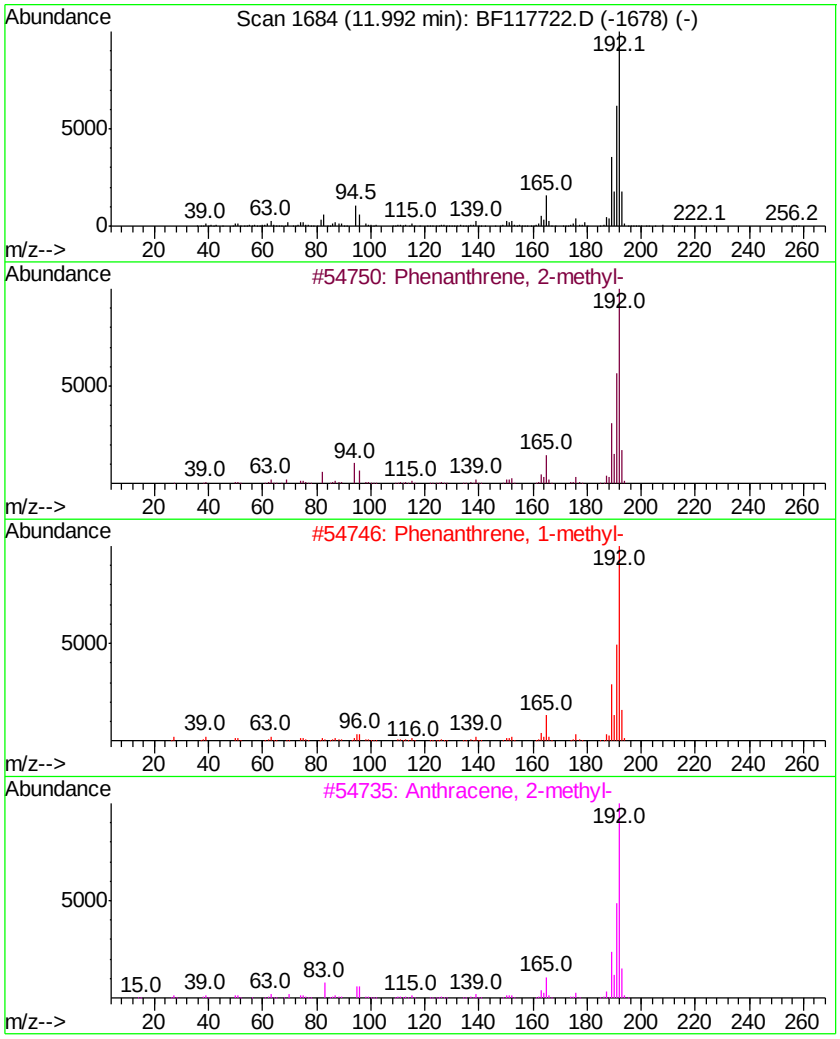
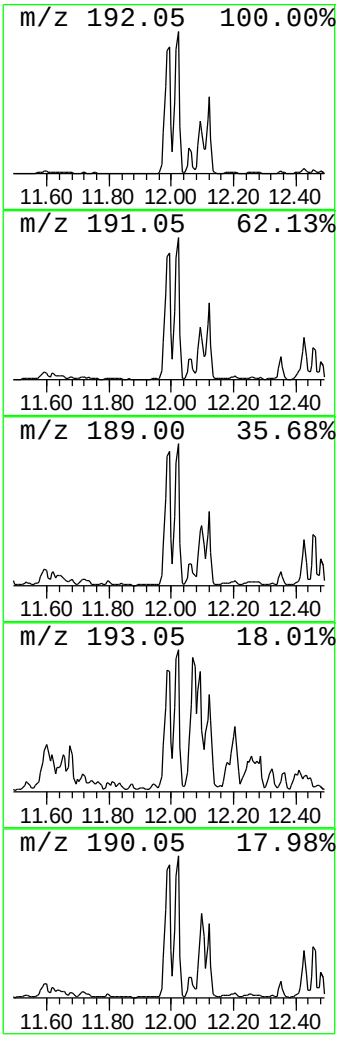
Peak Number 17 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	73.47 ng	11807400	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





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ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
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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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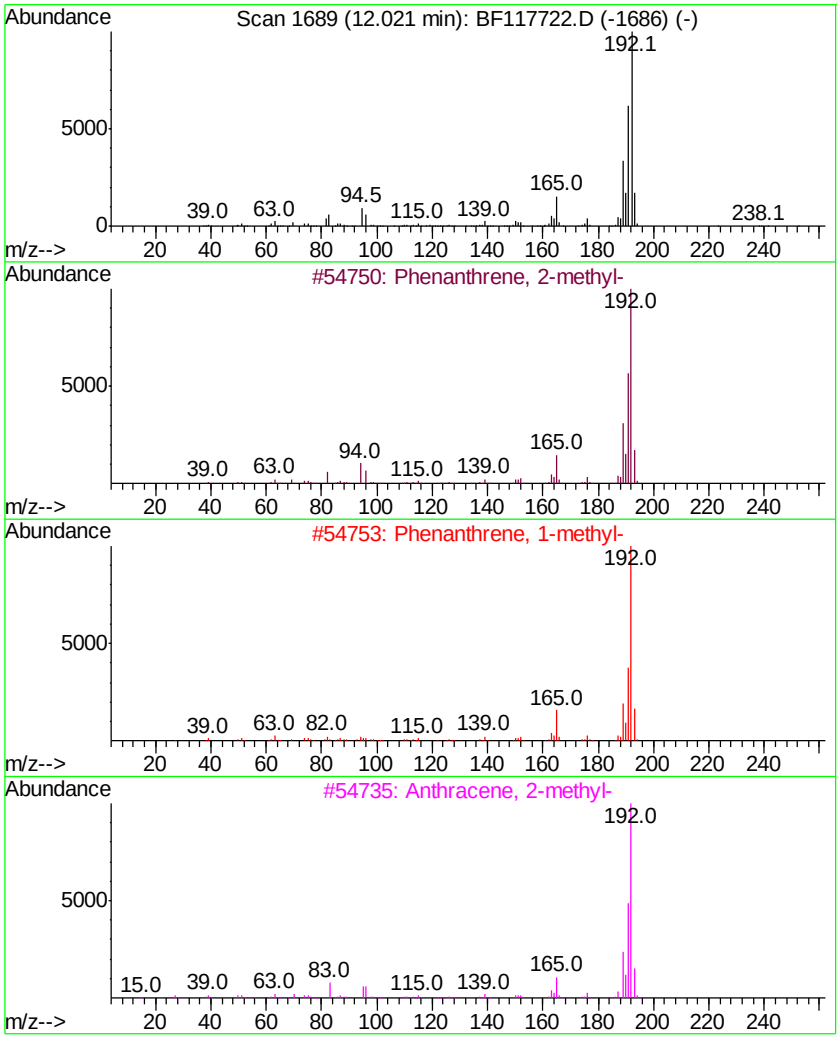
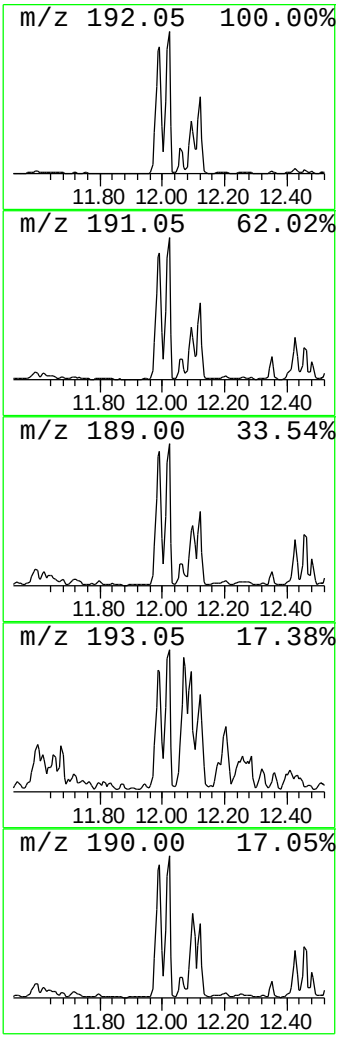
Peak Number 18 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	59.48 ng	9559740	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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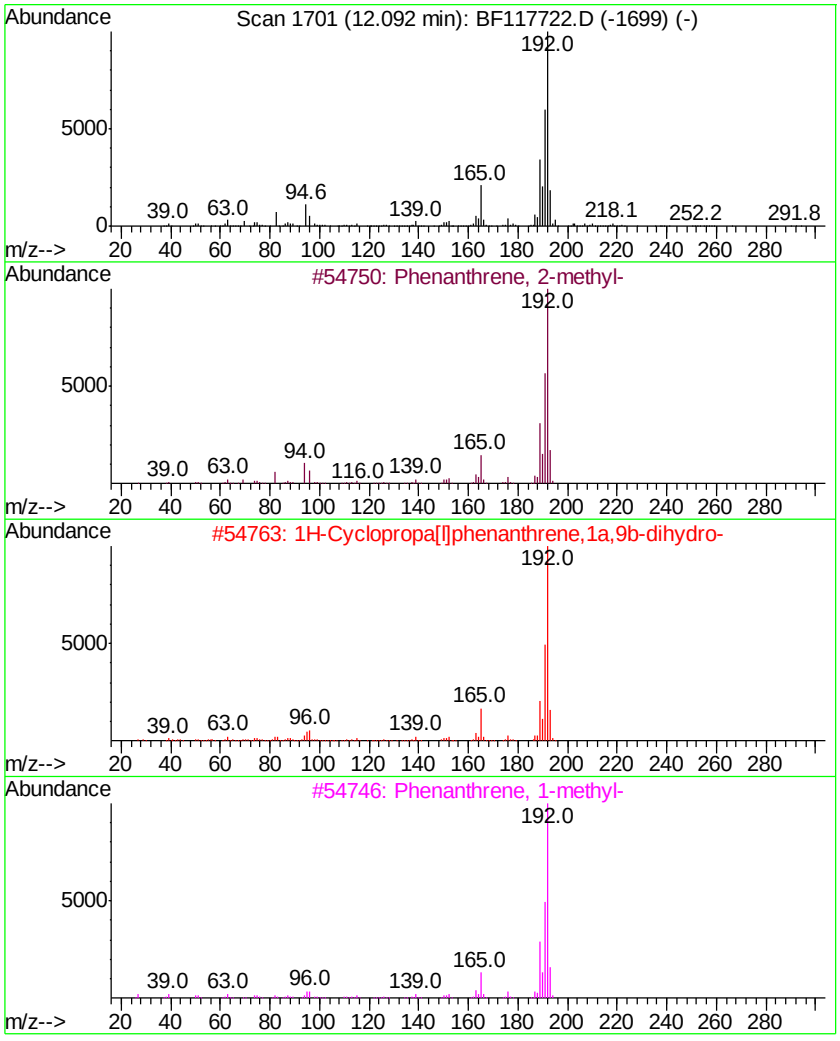
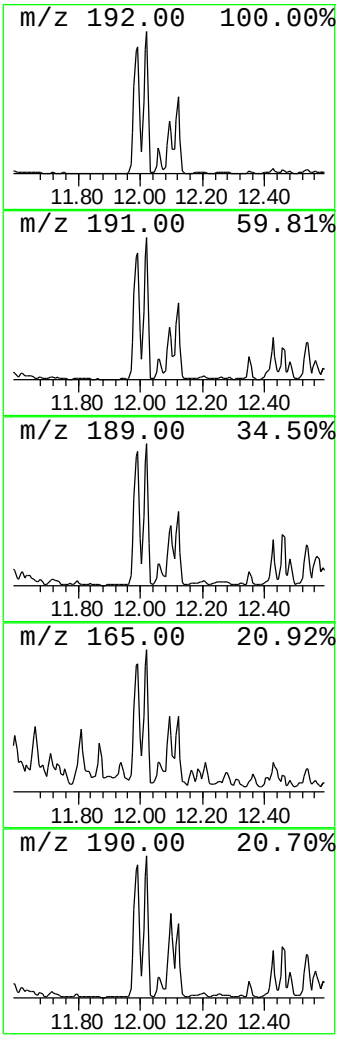
Peak Number 19 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	31.67 ng	5089470	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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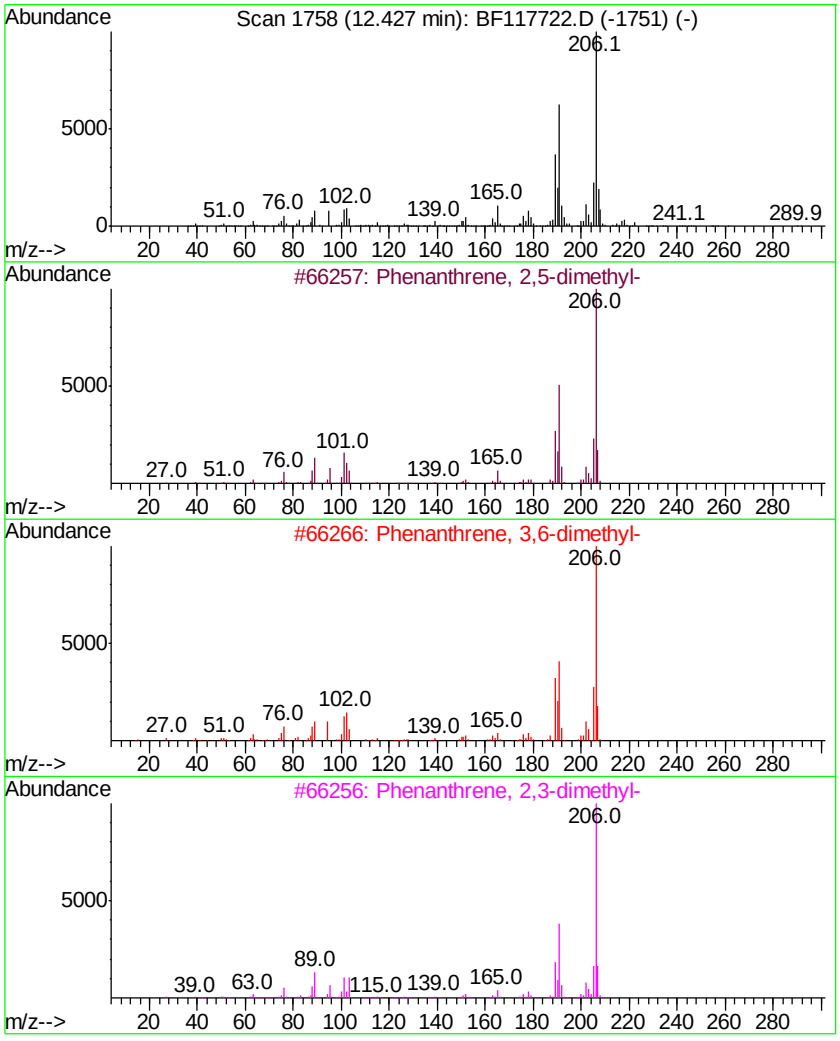
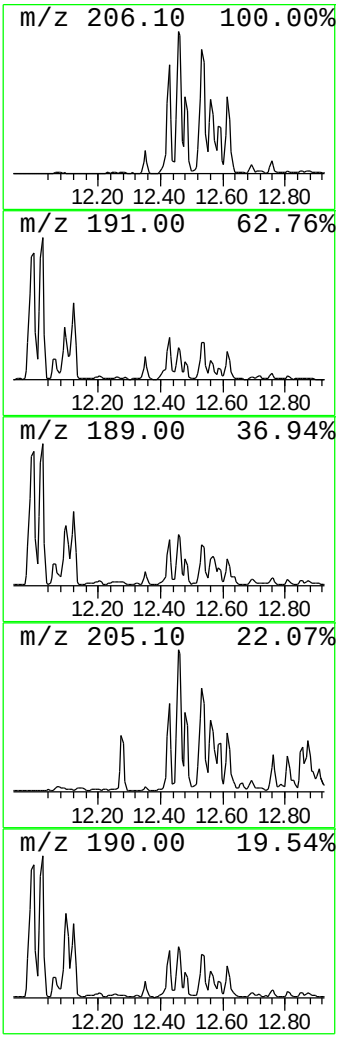
Peak Number 20 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	32.06 ng	5152440	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF110719\
Data File : BF117722.D
Acq On : 7 Nov 2019 23:08
Operator : JU
Sample : K5722-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 5-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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
unknown6.70	6.70	66.4	ng	6204130	1	6.93	1868930	20.0
endo-Borneol	8.13	27.5	ng	3288330	2	8.22	2389210	20.0
Naphthalene, 2,3,...	10.23	30.8	ng	3398180	3	9.98	2210160	20.0
Naphthalene, 1,6,...	10.30	27.0	ng	2980010	3	9.98	2210160	20.0
Naphthalene, 1,4,...	10.33	32.5	ng	3591750	3	9.98	2210160	20.0
4,6,8-Trimethylaz...	10.39	40.9	ng	4523580	3	9.98	2210160	20.0
1-Isopropenylnaph...	10.60	128.2	ng	14168200	3	9.98	2210160	20.0
Chamazulene	10.65	26.9	ng	2969720	3	9.98	2210160	20.0
1,1'-Biphenyl, 3,...	10.69	53.8	ng	5946740	3	9.98	2210160	20.0
1,4,5,8-Tetrameth...	10.90	28.4	ng	4557840	4	11.48	3214340	20.0
9H-Fluorene, 2-me...	11.08	98.8	ng	15871100	4	11.48	3214340	20.0
9H-Fluorene, 9-me...	11.12	79.0	ng	12699400	4	11.48	3214340	20.0
4,4'-Dimethylbiph...	11.23	38.6	ng	6208280	4	11.48	3214340	20.0
Dibenzothiophene	11.37	27.8	ng	4468960	4	11.48	3214340	20.0
.alpha.-Methylsti...	11.64	32.3	ng	5183430	4	11.48	3214340	20.0
Phenanthrene, 2-m...	11.99	73.5	ng	11807400	4	11.48	3214340	20.0
Phenanthrene, 1-m...	12.02	59.5	ng	9559740	4	11.48	3214340	20.0
1H-Cyclopropa[l]p...	12.09	31.7	ng	5089470	4	11.48	3214340	20.0
Phenanthrene, 2,5...	12.43	32.1	ng	5152440	4	11.48	3214340	20.0