

HRMS spectra for Reference

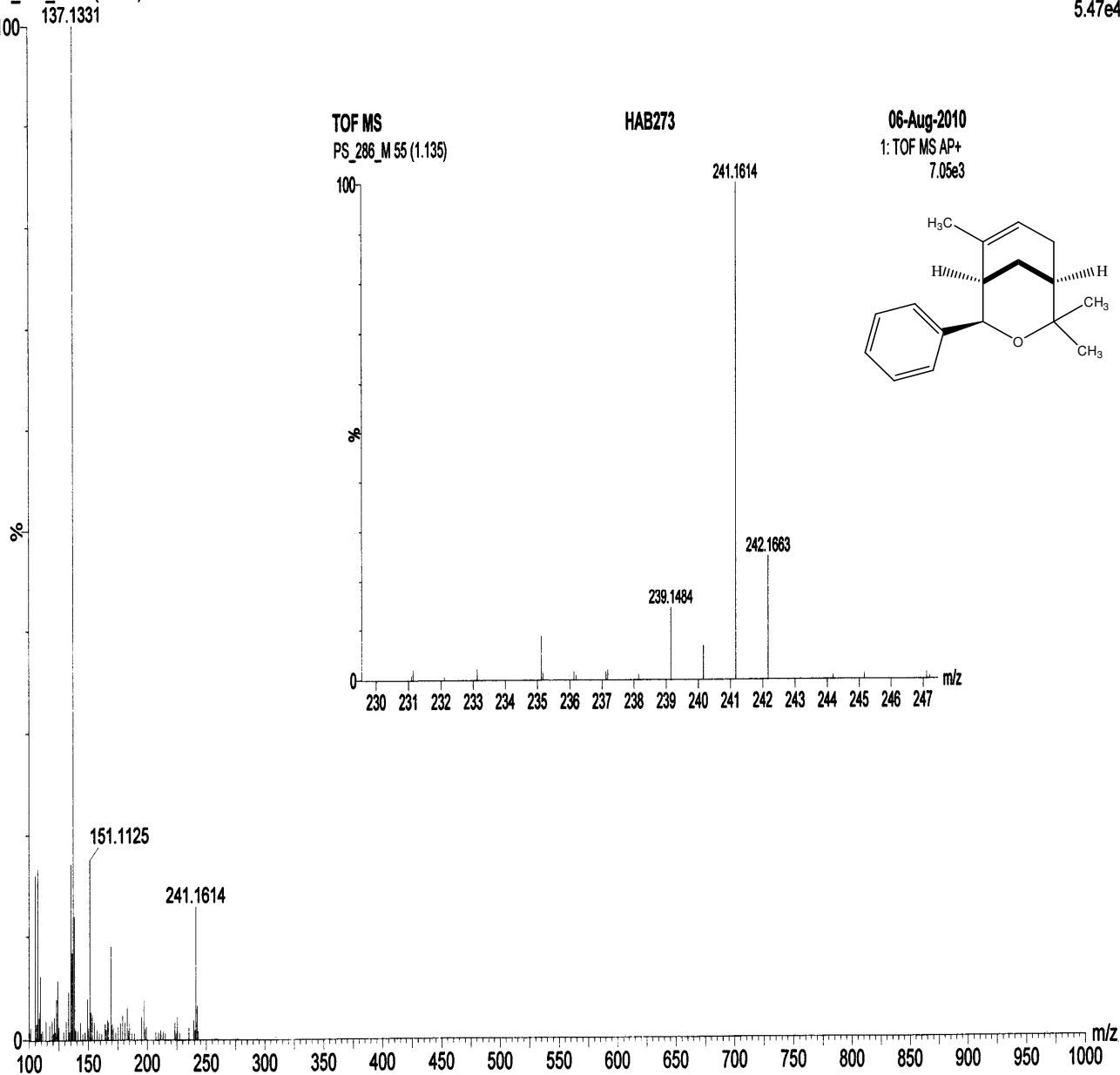
Synthesis of Oxabicyclo [3.3.1]nonenes and Substituted Tetrahydropyrans via (3,5)-Oxonium-Ene Reaction

Pipas Saha, Paramartha Gogoi and Anil K. Saikia*

TOF MS
PS_286_M 55 (1.135)

HAB273

06-Aug-2010
1: TOF MS AP+
5.47e4

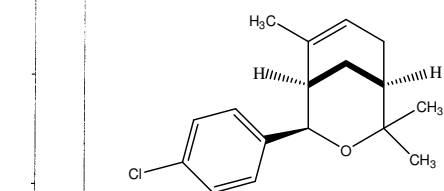


HRMS spectrum of 3a

TOF MS

PS_169_M1 30 (0.622)

100 137.1337



138.9964

%

151.1108

195.1252

275.1218

277.1205

0

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 m/z

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TOF MS

PS_169_M1 30 (0.622)

100

%

273.2588

274

HAB273

275.1218

276.1269

277.1205

0

273

274

275

276

277

m/z

16-Aug-2010

1: TOF MS AP+

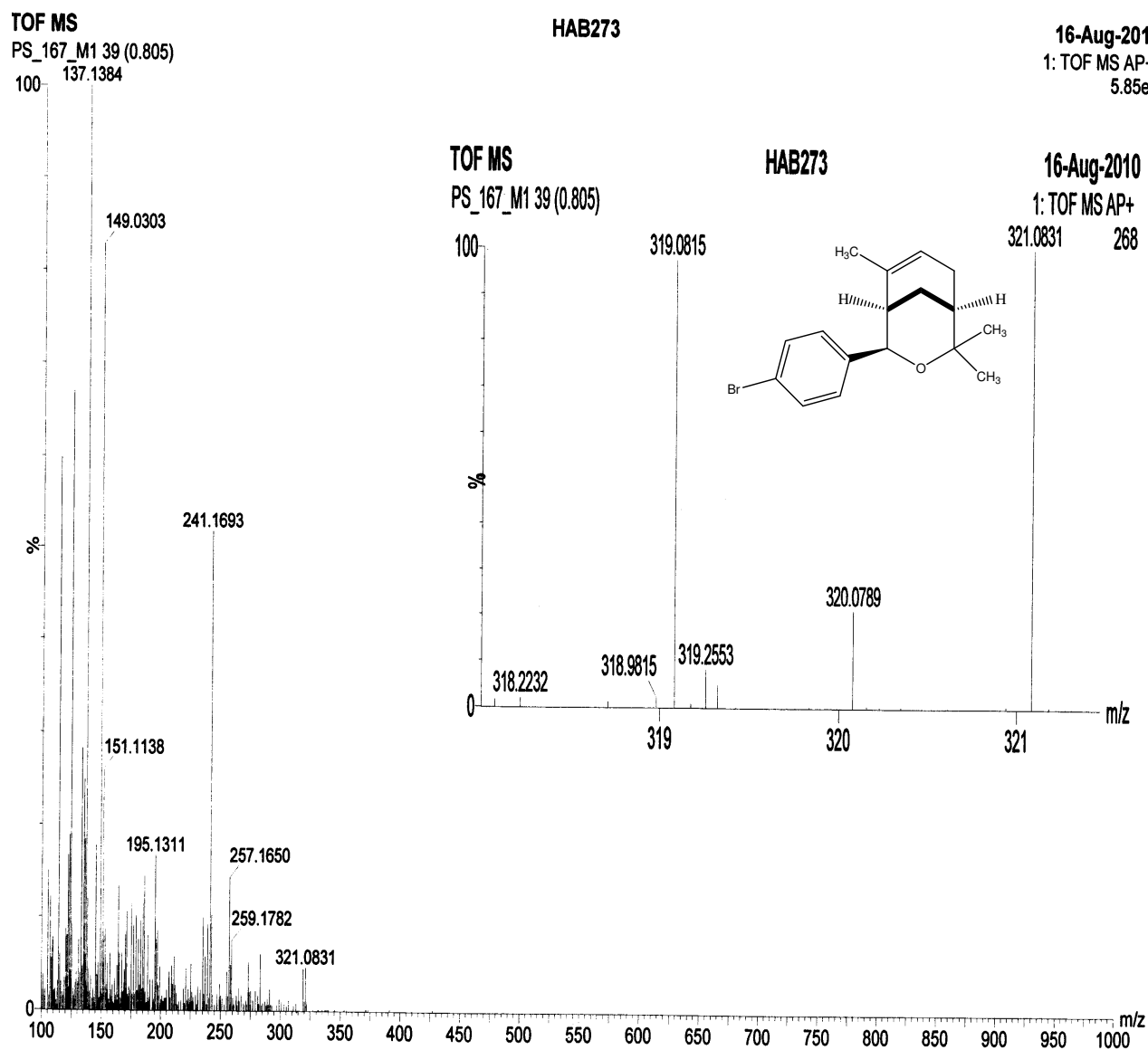
2.03e4

16-Aug-2010

1: TOF MS AP+

6.39e3

HRMS spectrum of 3b

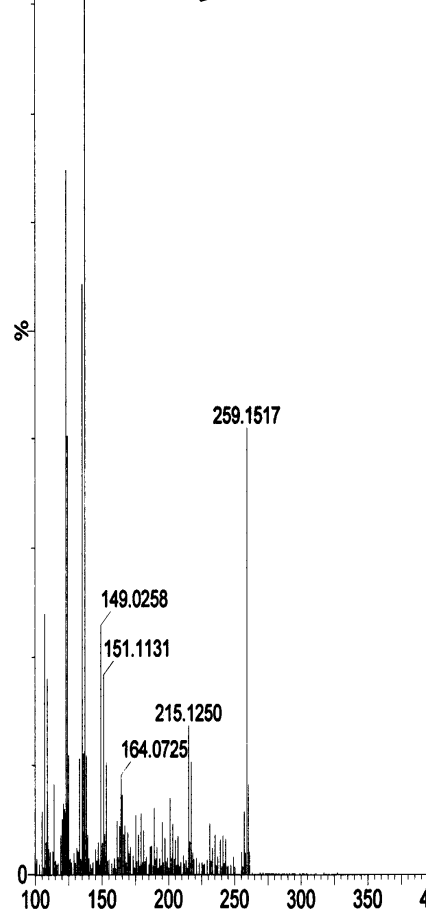
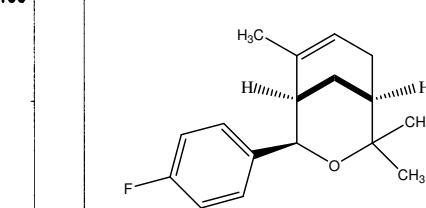


HRMS spectrum of 3c

TOF MS

PS_170_M1 68 (1.418)

137.1337



HAB273

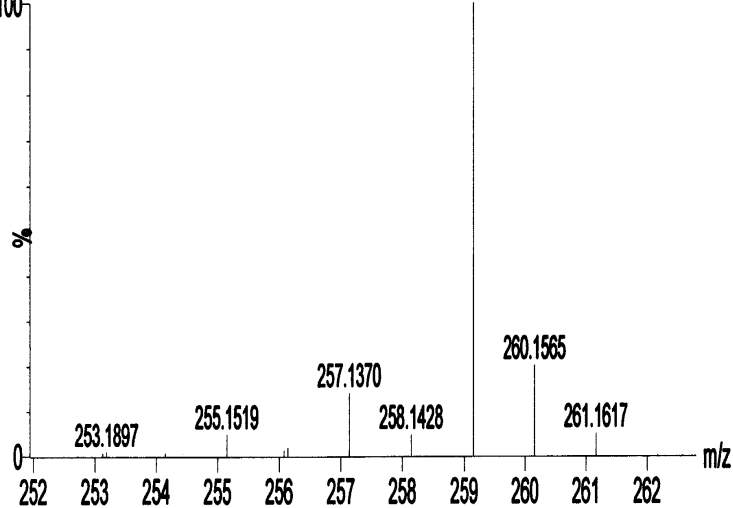
09-Aug-2010

1: TOF MS AP+
4.03e4

TOF MS

PS_170_M1 68 (1.418)

100

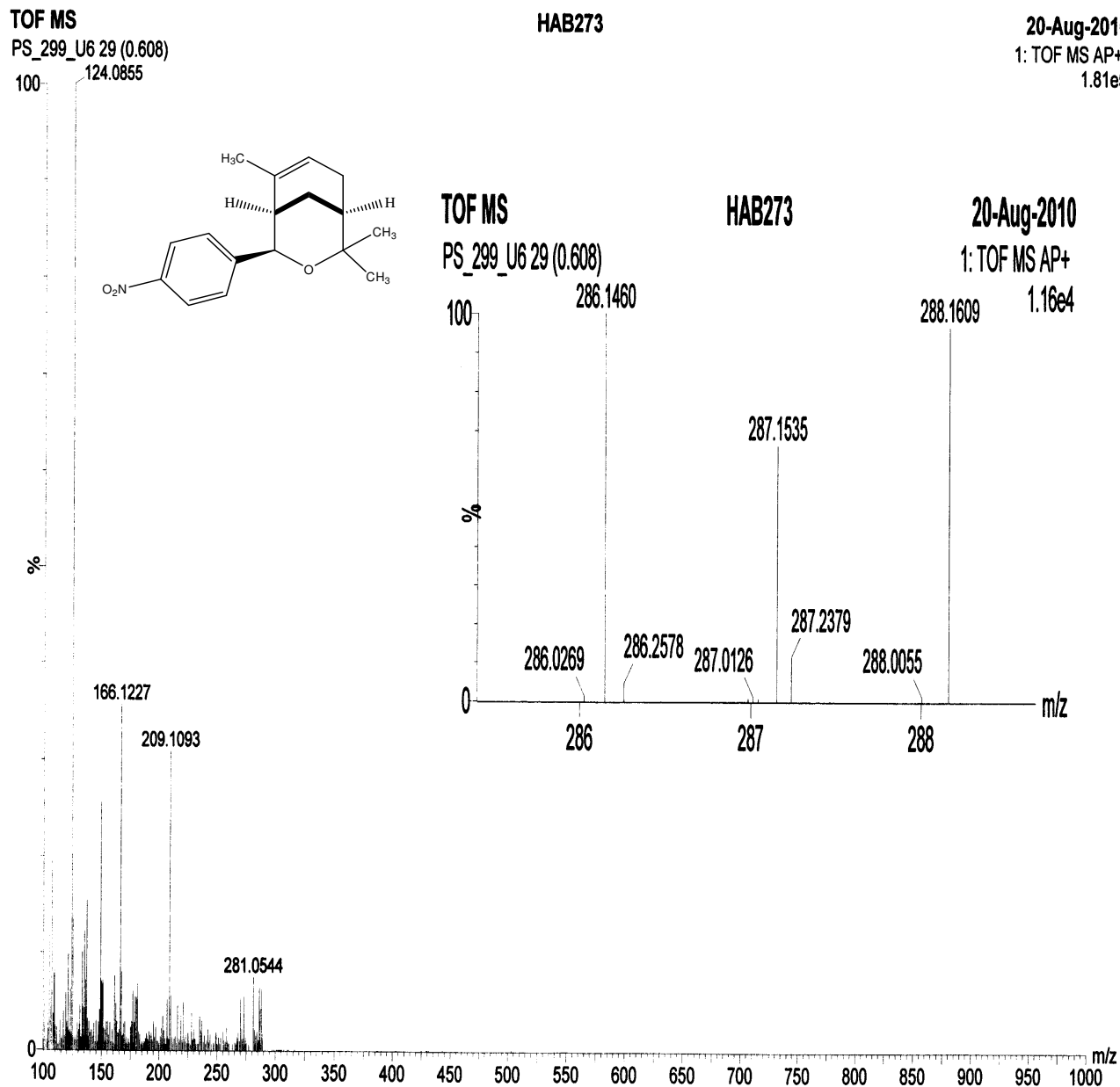


HAB273

09-Aug-2010

1: TOF MS AP+
1.65e4

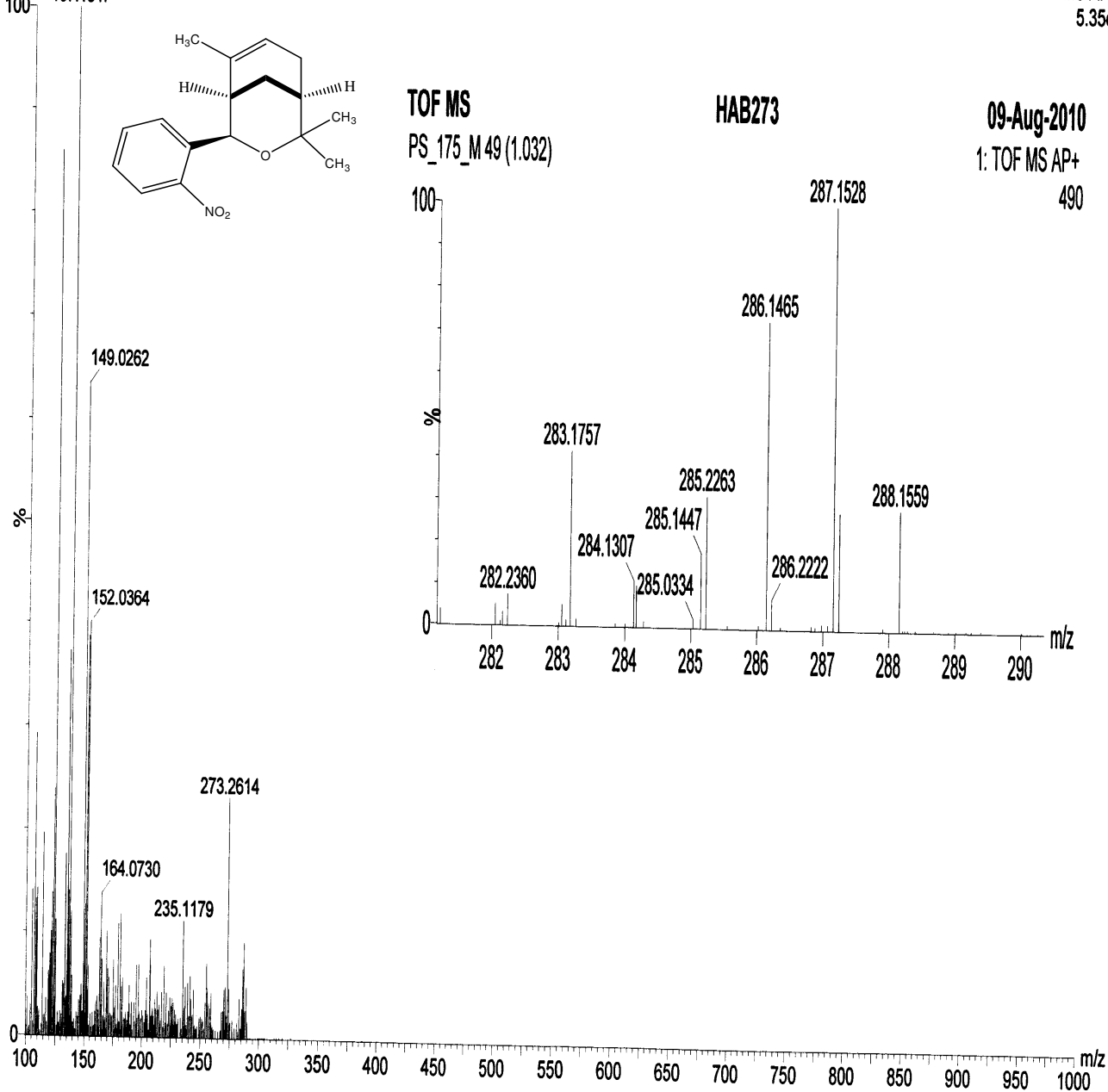
HRMS spectrum of 3d



TOF MS

PS_175_M 49 (1.032)

137.1347



HAB273

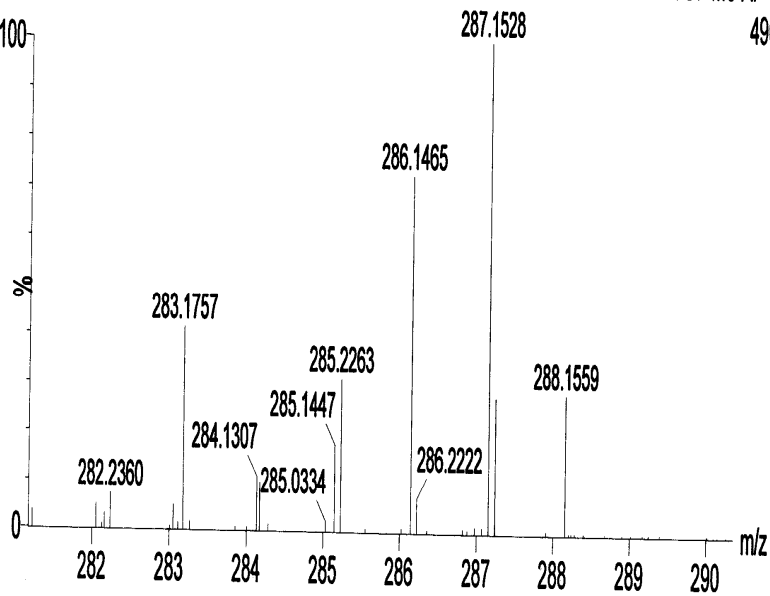
09-Aug-2010

1: TOF MS AP+

5.35e3

TOF MS

PS_175_M 49 (1.032)



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09-Aug-2010

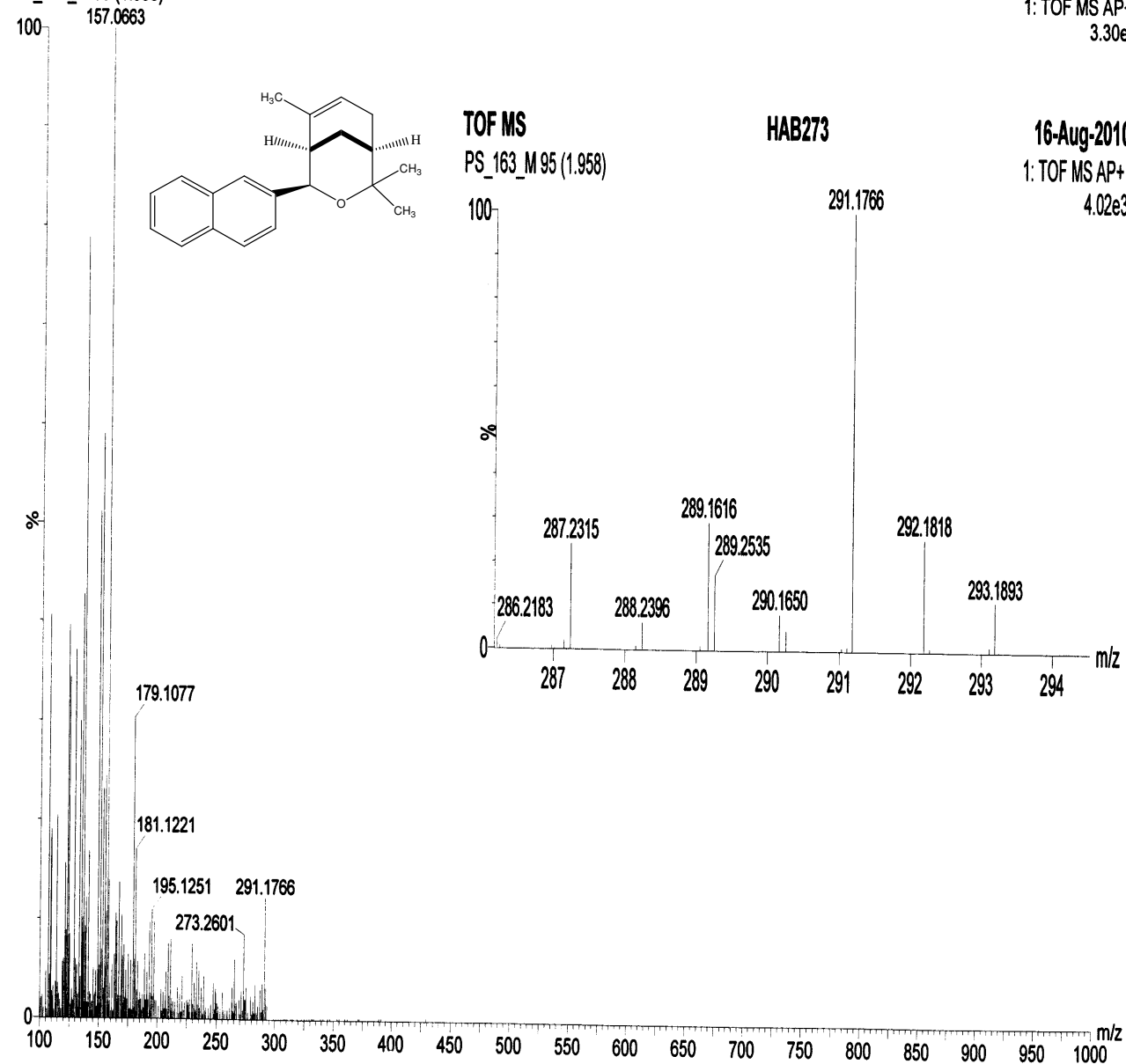
1: TOF MS AP+

490

HRMS spectrum of 3f

TOF MS

PS_163_M 95 (1.958)



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16-Aug-2010

1: TOF MS AP+
3.30e4

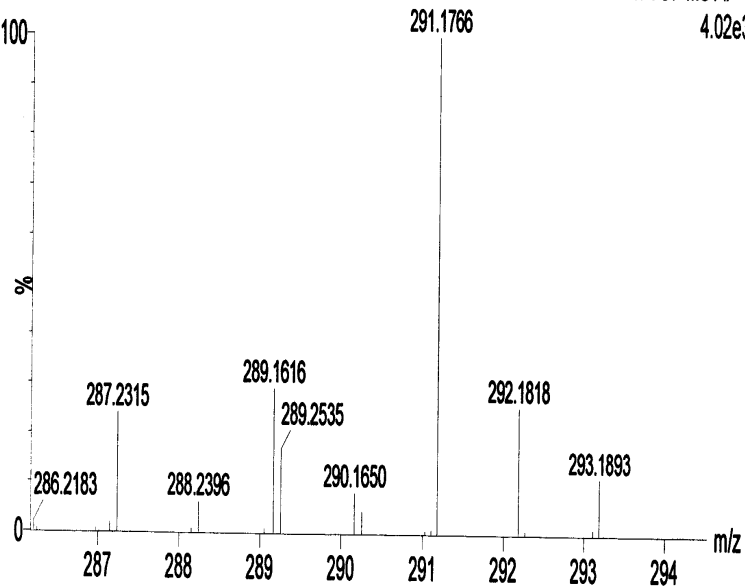
TOF MS

PS_163_M 95 (1.958)

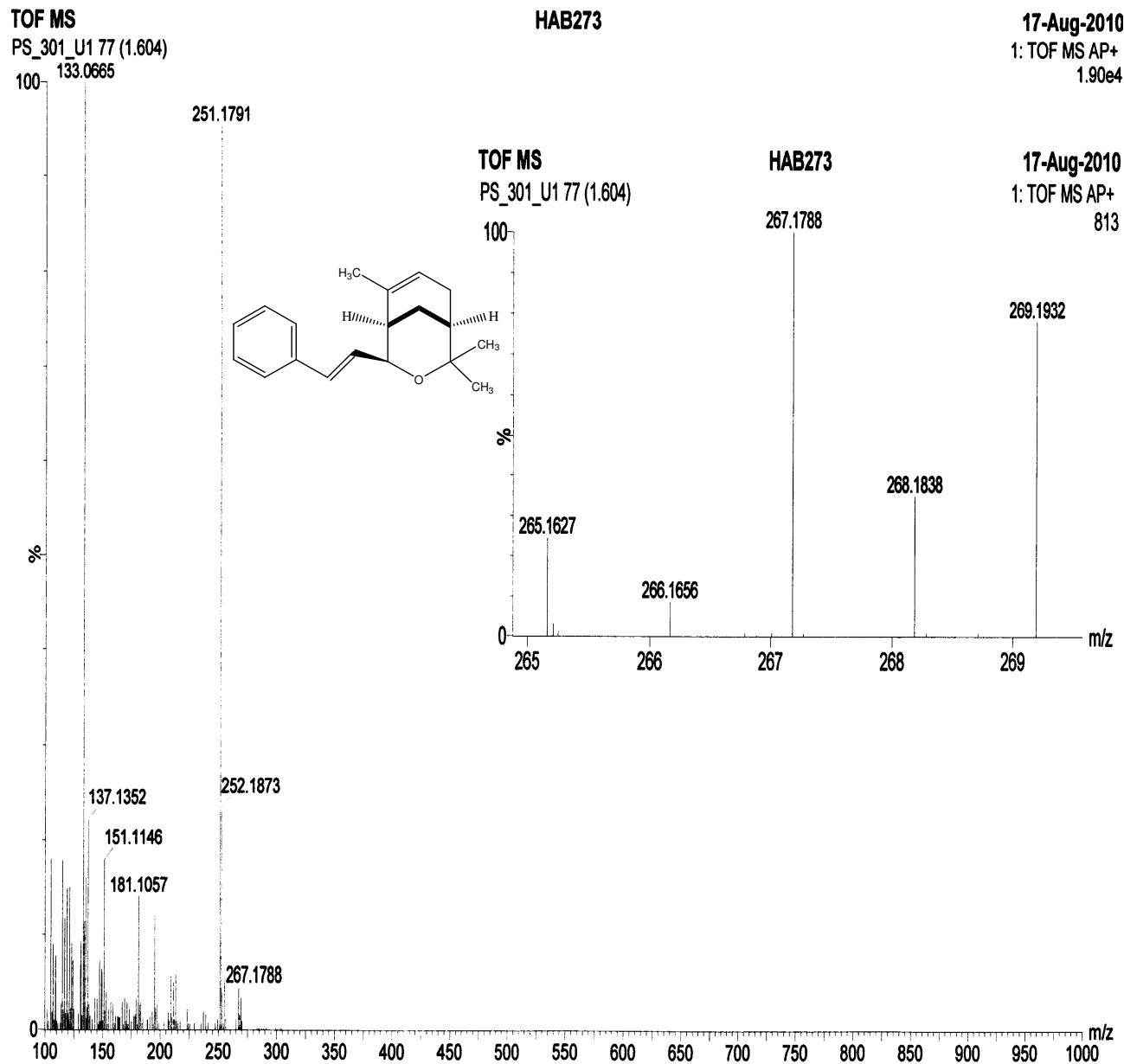
HAB273

16-Aug-2010

1: TOF MS AP+
4.02e3



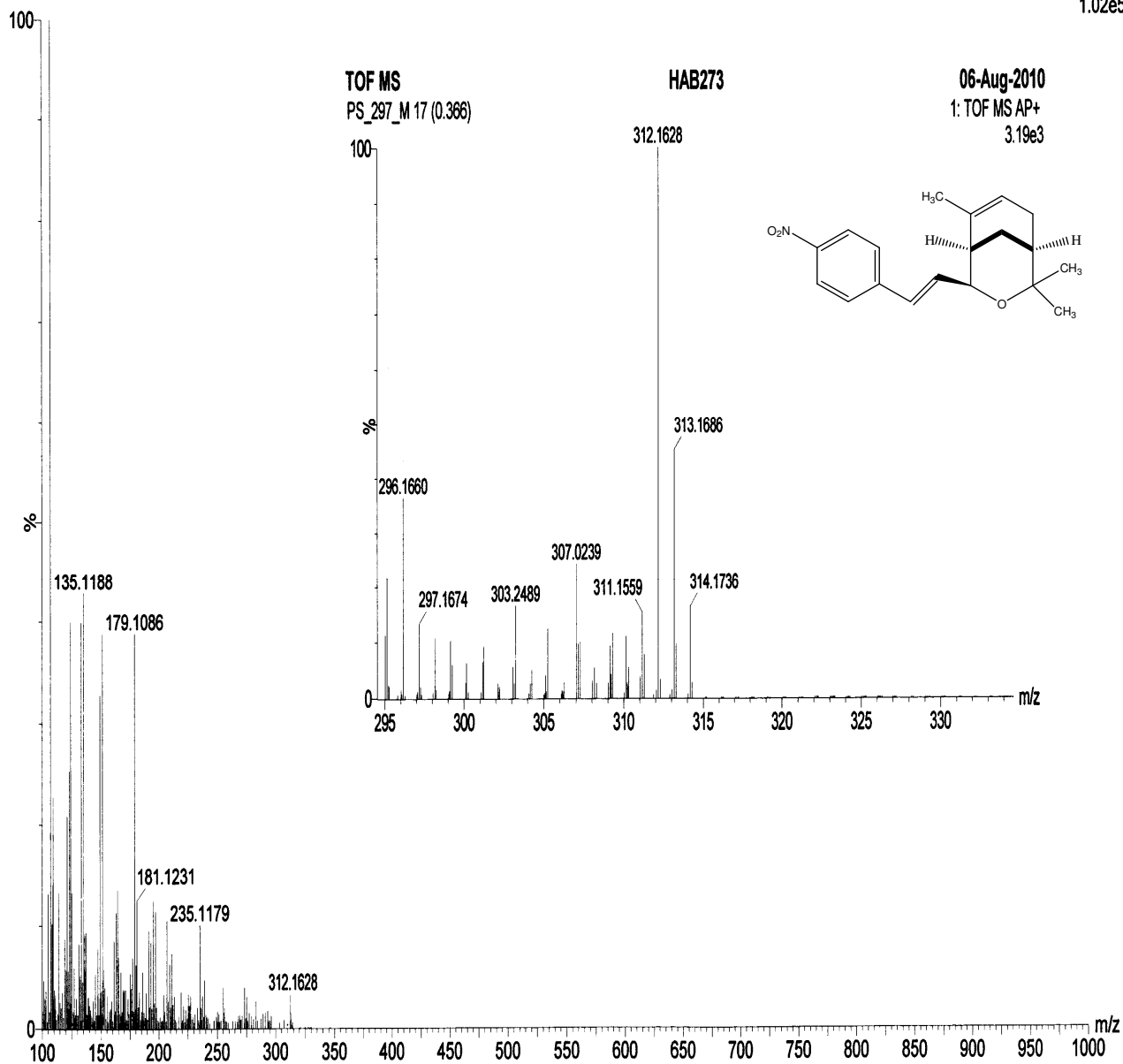
HRMS spectrum of 3g



HRMS spectrum of 3h

TOF MS

PS_297_M 17 (0.366)



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06-Aug-2010

1: TOF MS AP+
1.02e5

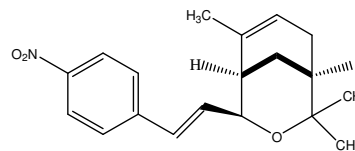
TOF MS

PS_297_M 17 (0.366)

HAB273

06-Aug-2010

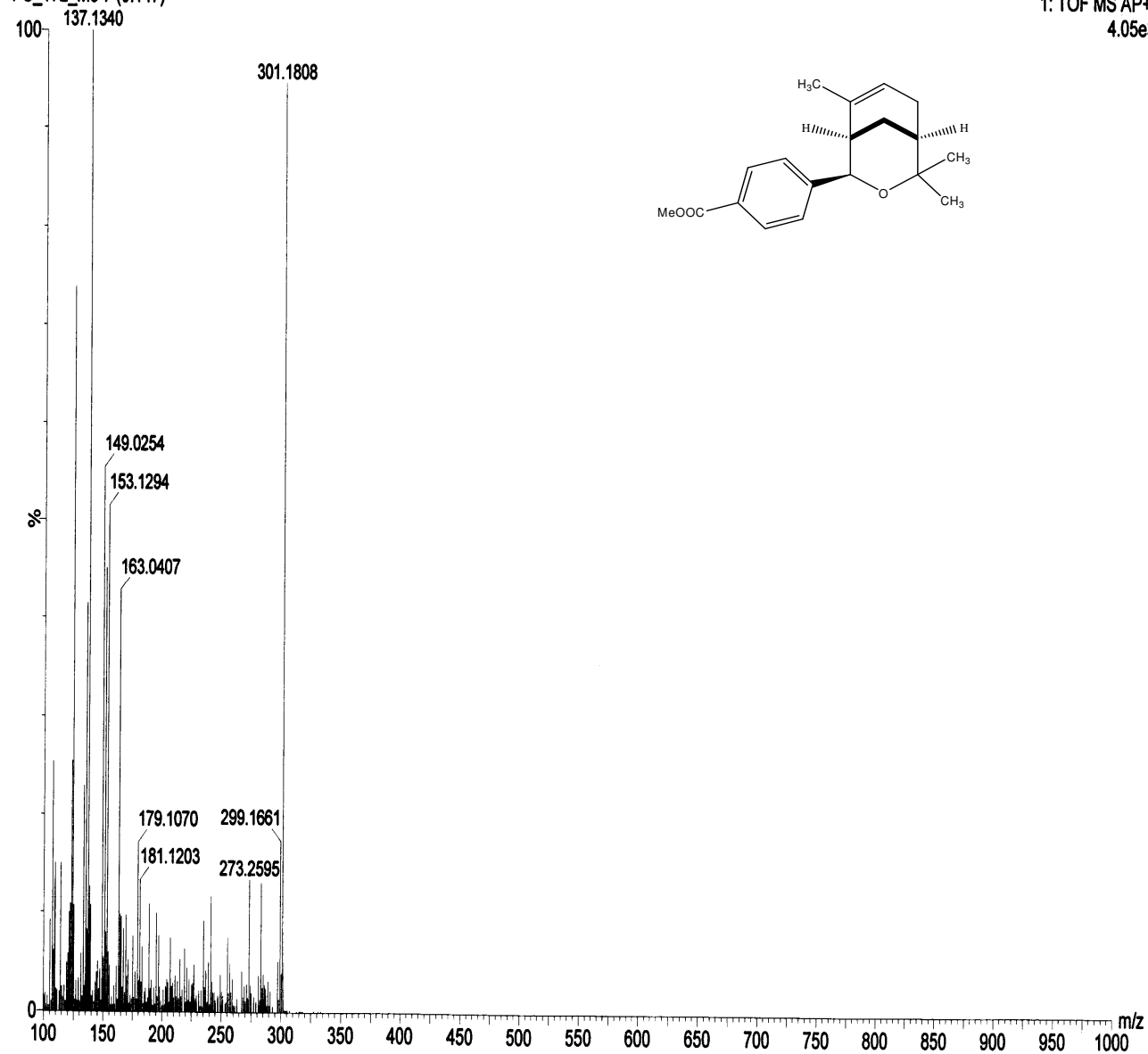
1: TOF MS AP+
3.19e3



HRMS spectrum of 3i

TOF MS

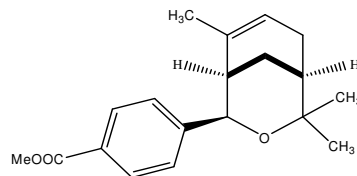
PS_172_M5 7 (0.147)



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09-Aug-2010

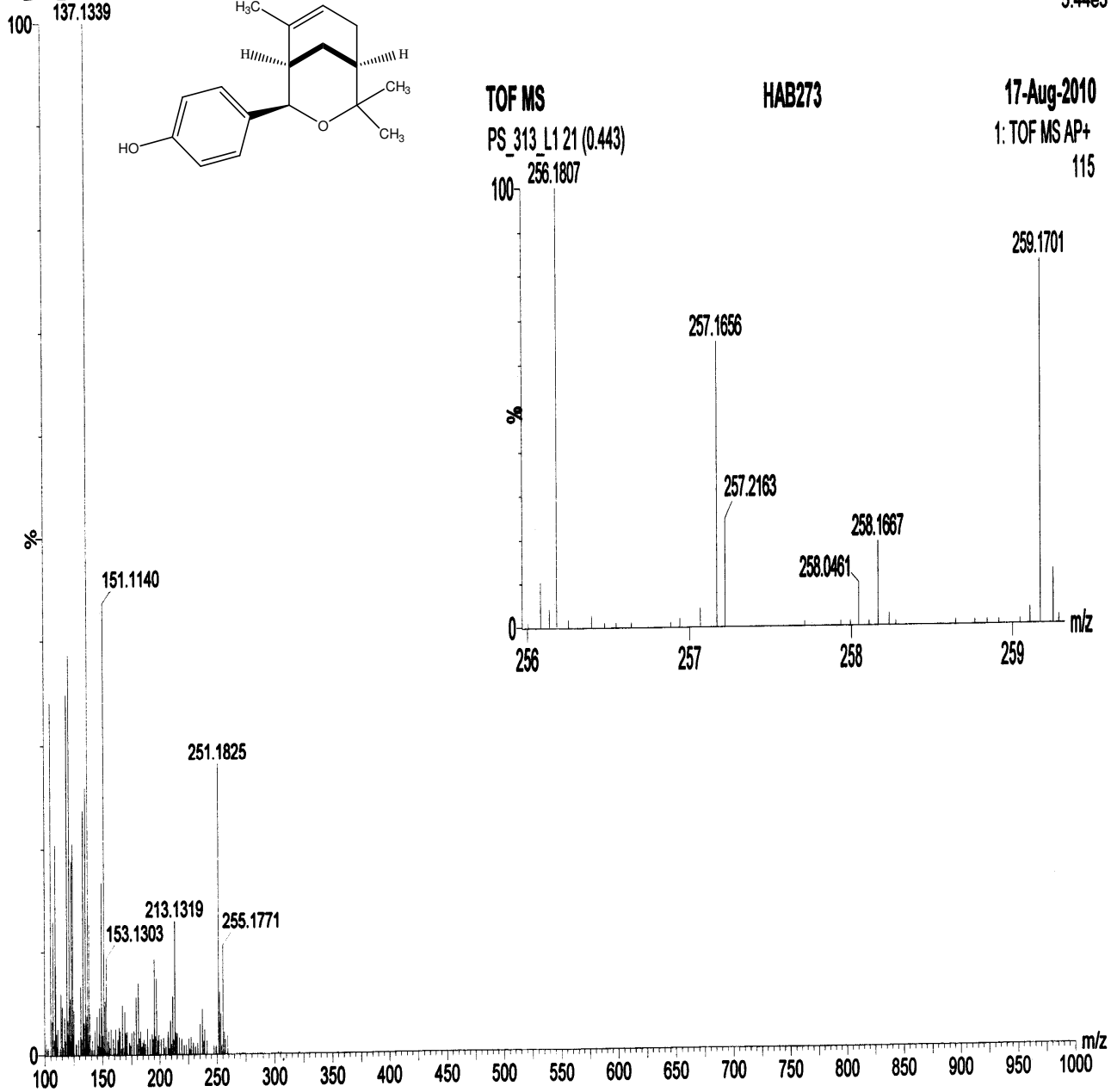
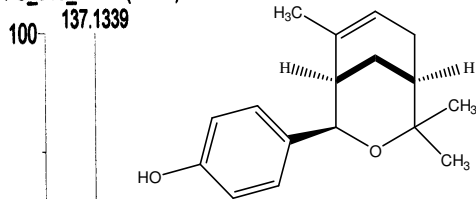
1: TOF MS AP+
4.05e3



HRMS spectrum of 3j

TOF MS

PS_313_L1 21 (0.443)



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17-Aug-2010

1: TOF MS AP+
5.44e3

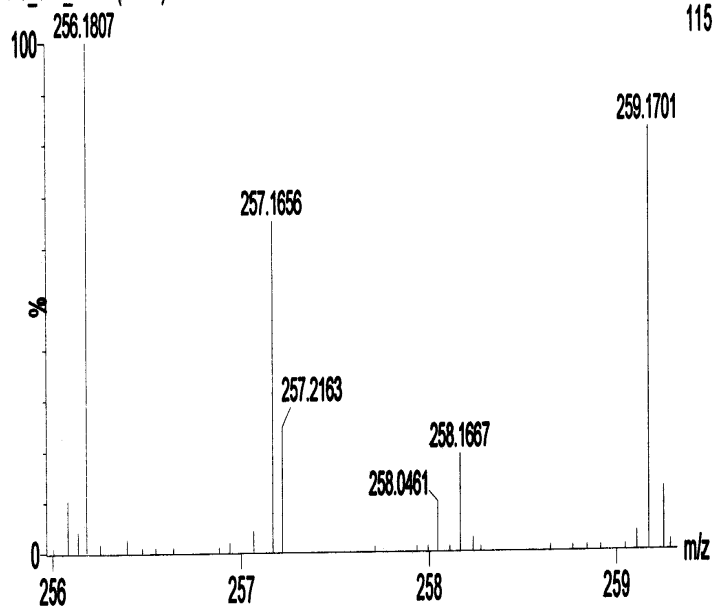
TOF MS

PS_313_L1 21 (0.443)

HAB273

17-Aug-2010

1: TOF MS AP+
115

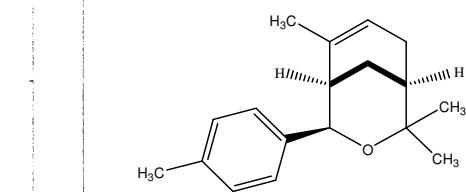


HRMS spectrum of 3k

TOF MS

PS_209M1_1 63 (1.311)

100 137.1346



%

151.1144 255.1783

153.1303

213.1313

0 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 m/z

HRMS spectrum of 31

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TOF MS

PS_209M1_1 63 (1.311)

100

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255.1783

%

253.1616

256.1827

257.1914

0 250 251 252 253 254 255 256 257 258 259 260 m/z

17-Aug-2010

1: TOF MS AP+

3.60e4

17-Aug-2010

1: TOF MS AP+

9.69e3

TOF MS

PS_293_M2 11 (0.238)

137.1317

100

%

138.1373

151.1037

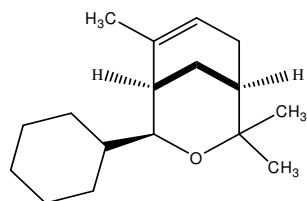
249.2224

0

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

m/z

HRMS spectrum of 3m



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16-Aug-2010

1: TOF MS AP+

8.87e4

TOF MS

PS_293_M2 11 (0.238)

100

%

0

247.2078

248.2144

249.2224

245 246 247 248 249 250 251 252 253 254 255 256 257

m/z

HAB273

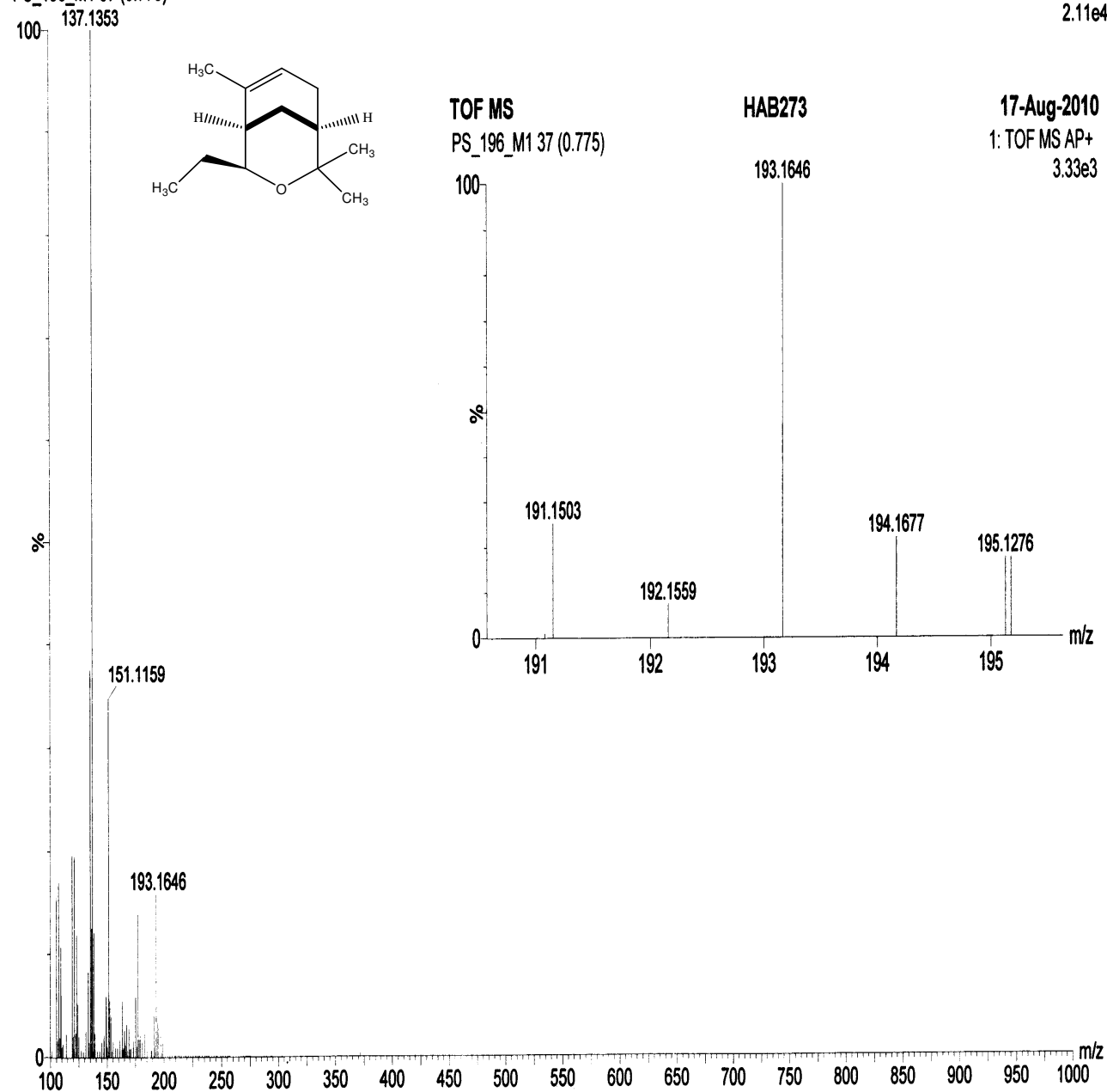
16-Aug-2010

1: TOF MS AP+

3.92e3

TOF MS

PS_196_M1 37 (0.775)



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17-Aug-2010

1: TOF MS AP+
2.11e4

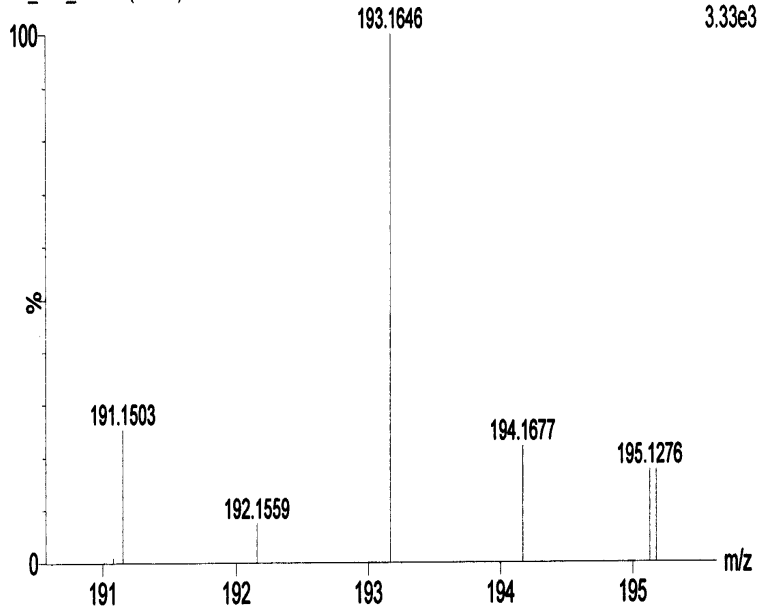
TOF MS

PS_196_M1 37 (0.775)

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17-Aug-2010

1: TOF MS AP+
3.33e3



HRMS spectrum of 3n

TOF MS

PS_291_M1 58 (1.208)

137.1333

100

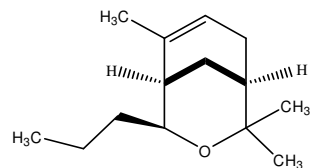
%

0

138.1380

151.1138

207.1775



HAB273

18-Aug-2010

1: TOF MS AP+

5.10e4

TOF MS

PS_291_M1 58 (1.208)

100

%

0

205.1626

207.0873

207.1775

208.1824

209.1921

m/z

205

206

207

208

209

HAB273

18-Aug-2010

1: TOF MS AP+

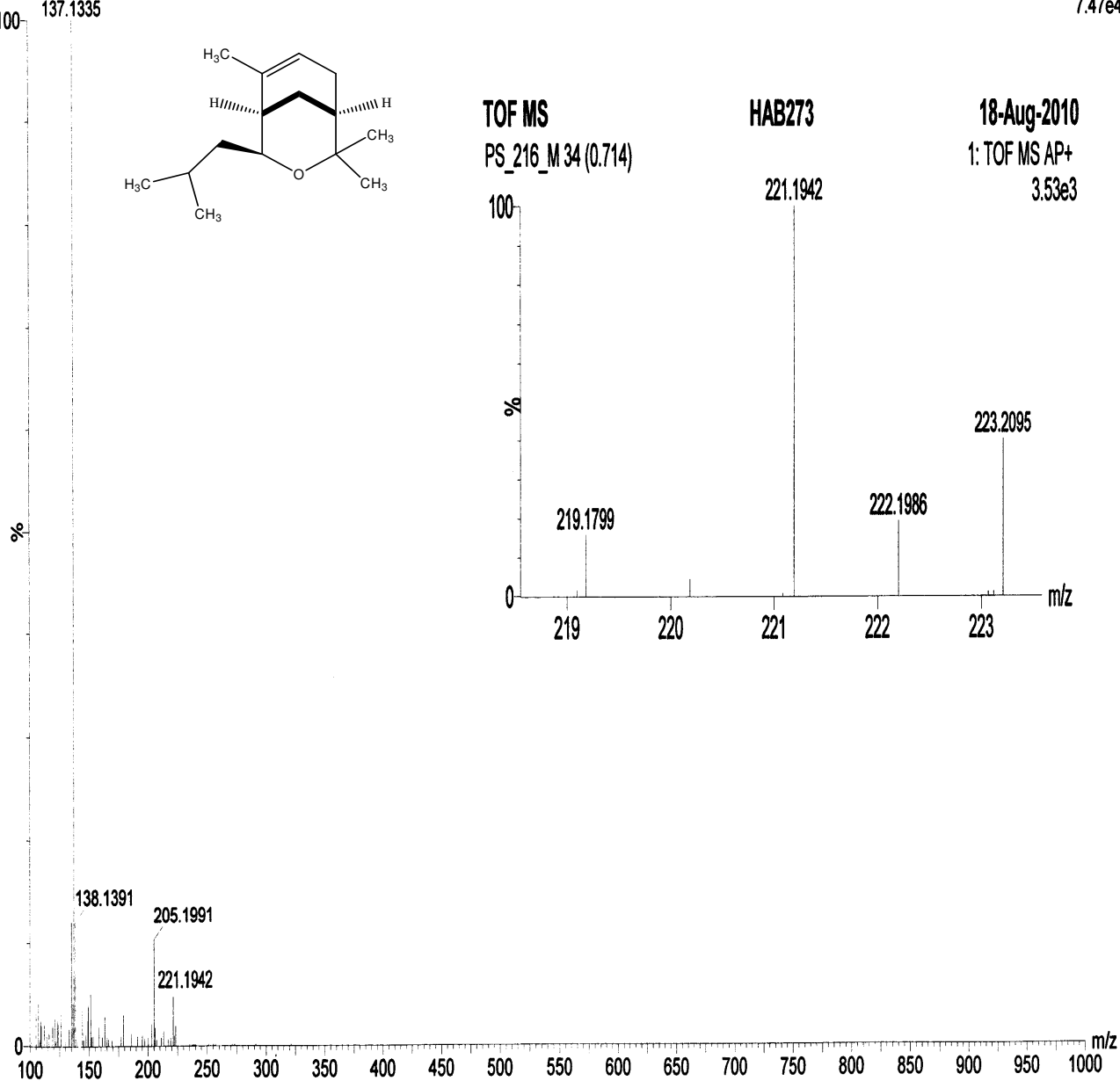
2.61e3

HRMS spectrum of 30

TOF MS

PS_216_M 34 (0.714)

137.1335



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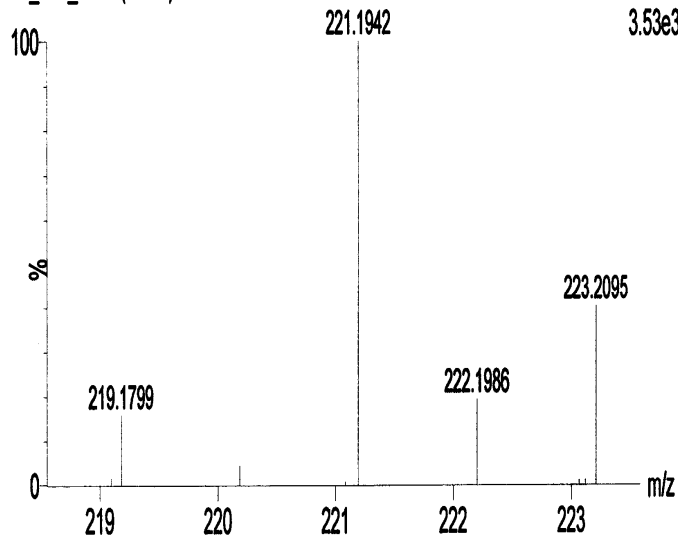
18-Aug-2010

1: TOF MS AP+

7.47e4

TOF MS

PS_216_M 34 (0.714)



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18-Aug-2010

1: TOF MS AP+

3.53e3

HRMS spectrum of 3p

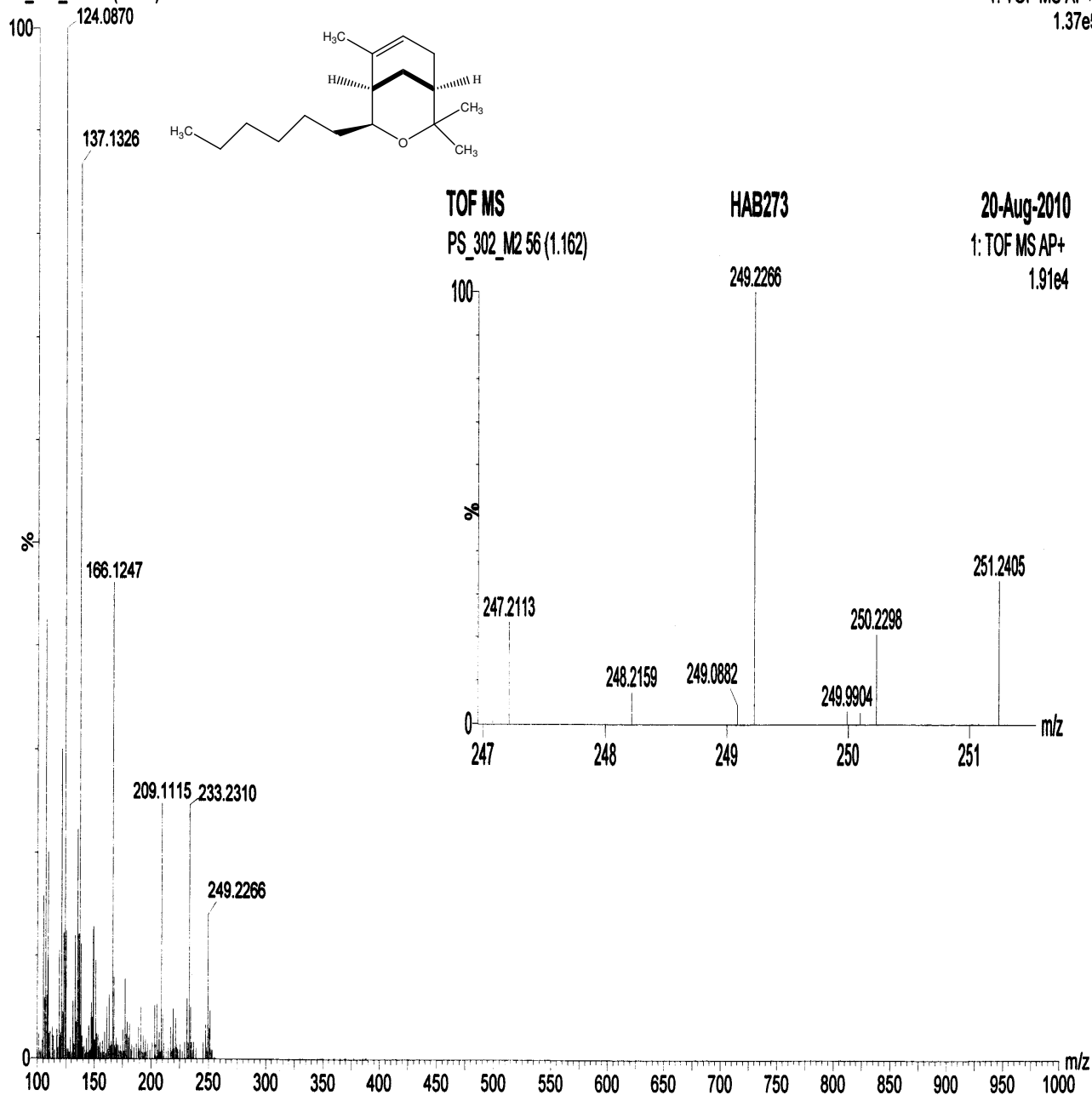
TOF MS

PS_302_M2 56 (1.162)

HAB273

20-Aug-2010

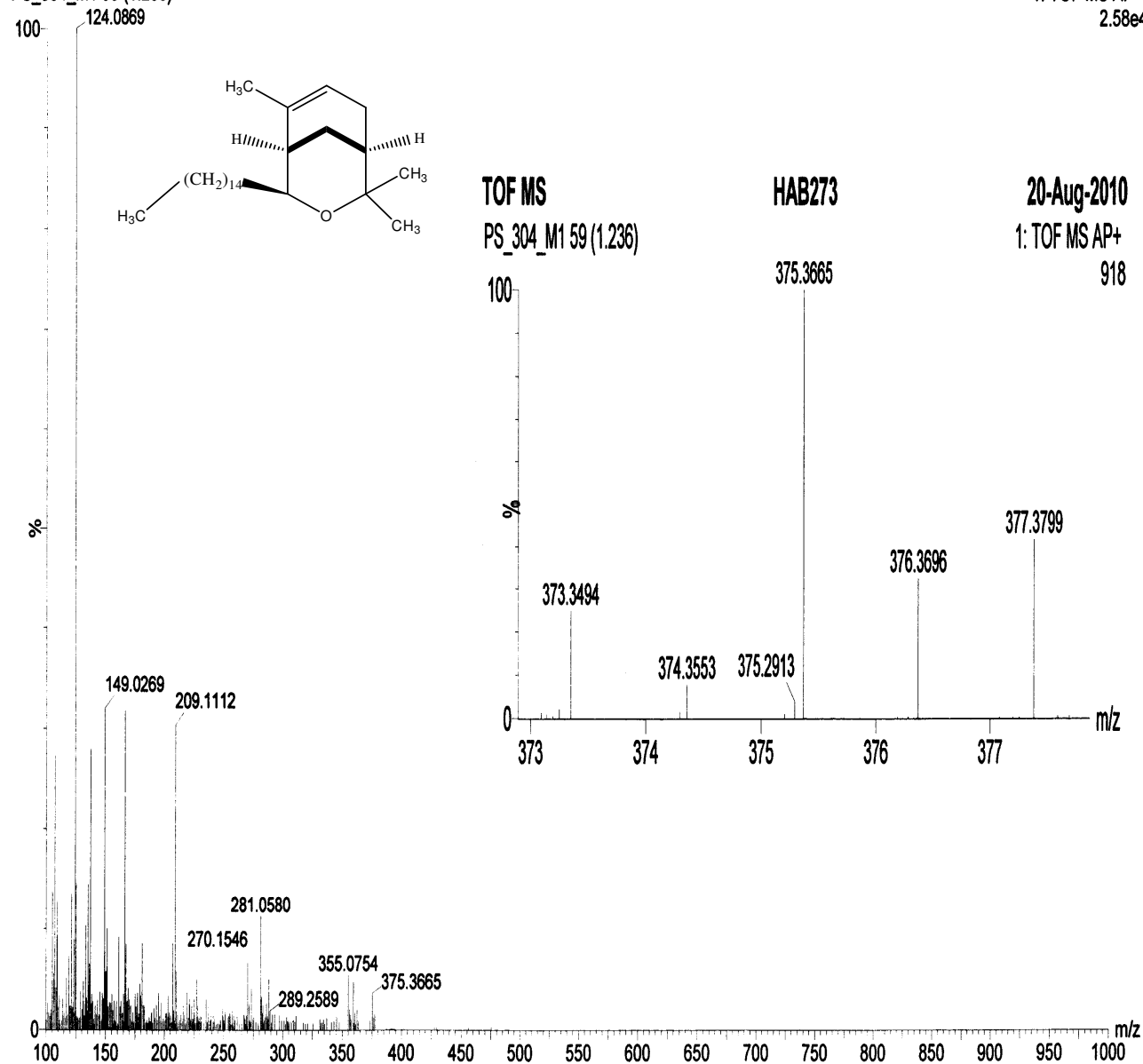
1: TOF MS AP+
1.37e5



HRMS spectrum of 3q

TOF MS

PS_304_M1 59 (1.236)



HAB273

20-Aug-2010

1: TOF MS AP+
2.58e4

TOF MS

PS_304_M1 59 (1.236)

HAB273

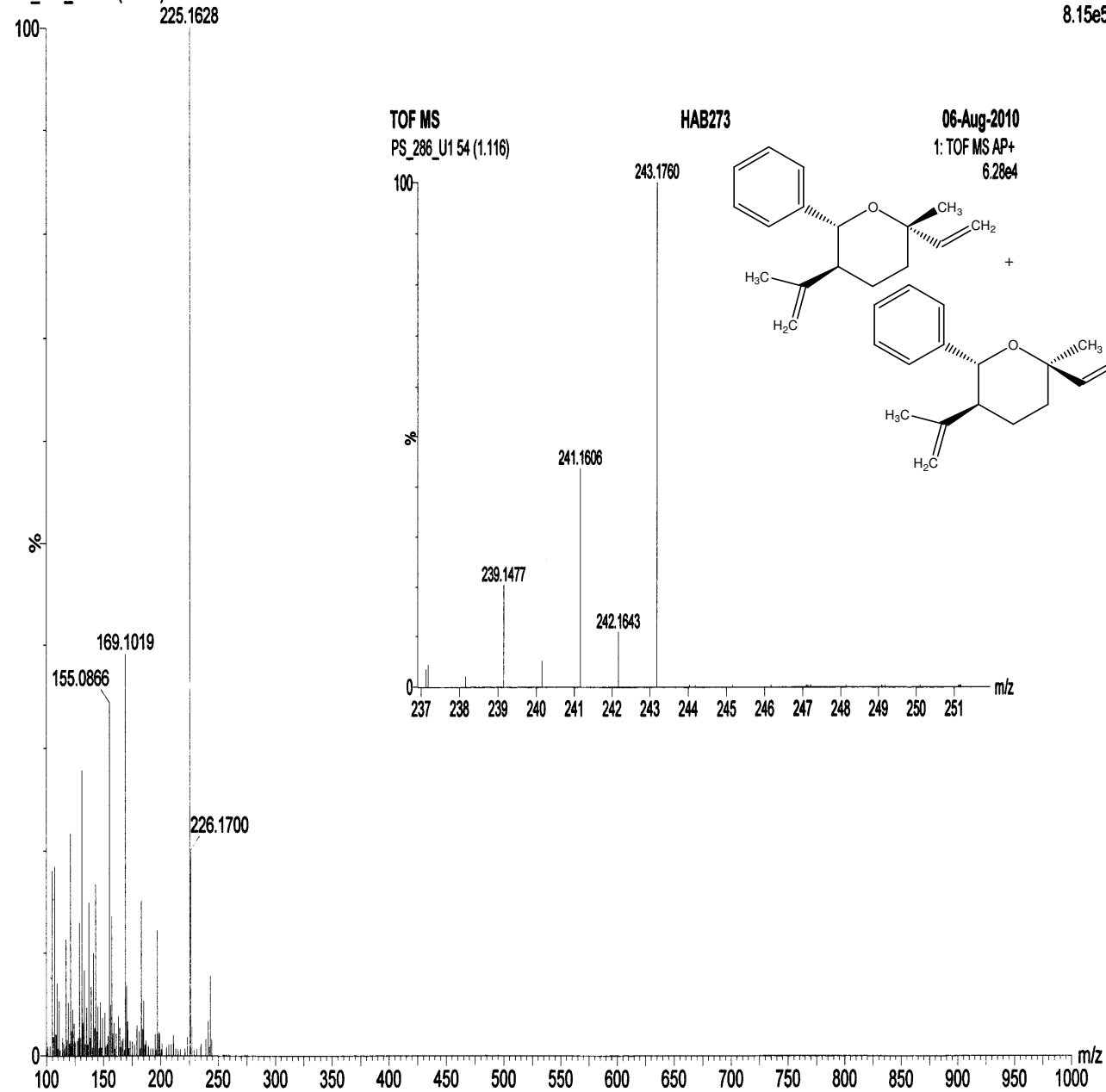
20-Aug-2010

1: TOF MS AP+
918

HRMS spectrum of 3r

TOF MS

PS_286_U1 54 (1.116)



HAB273

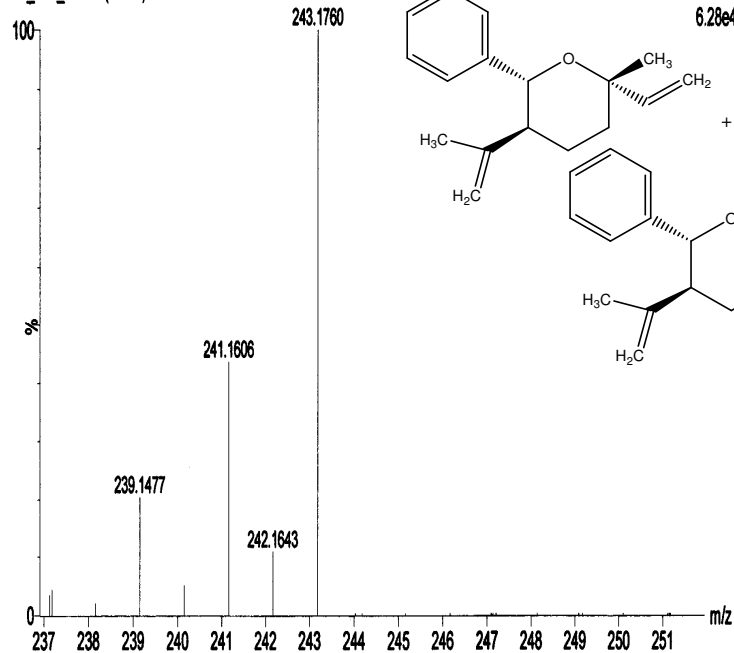
06-Aug-2010

1: TOF MS AP+

8.15e5

TOF MS

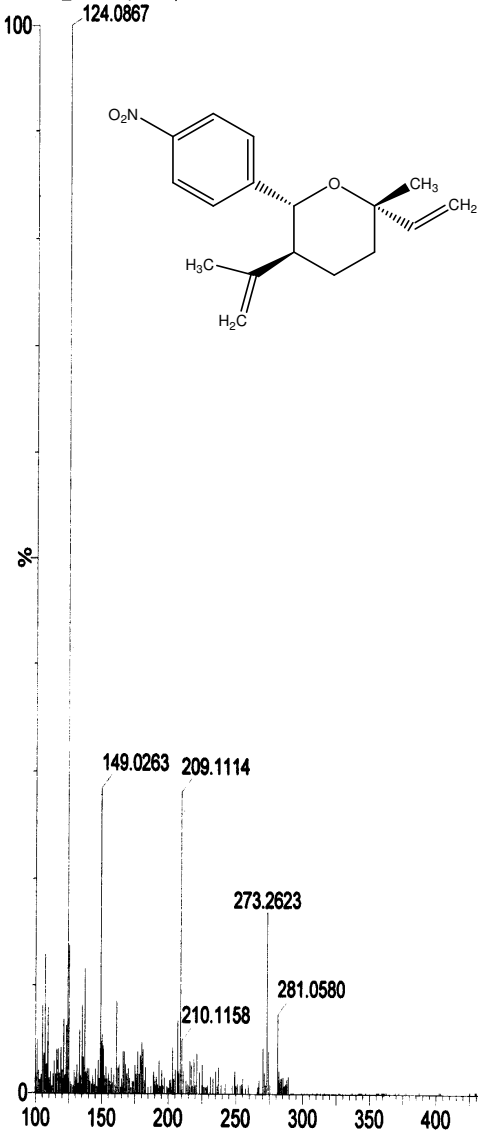
PS_286_U1 54 (1.116)



HRMS spectrum of 4a & 5a

TOF MS

PS_299_M1 42 (0.884)

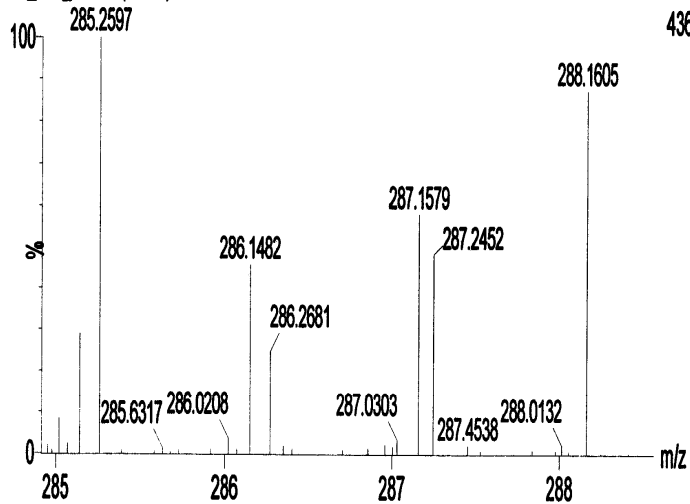


HAB273

20-Aug-2010
1: TOF MS AP+
2.94e4

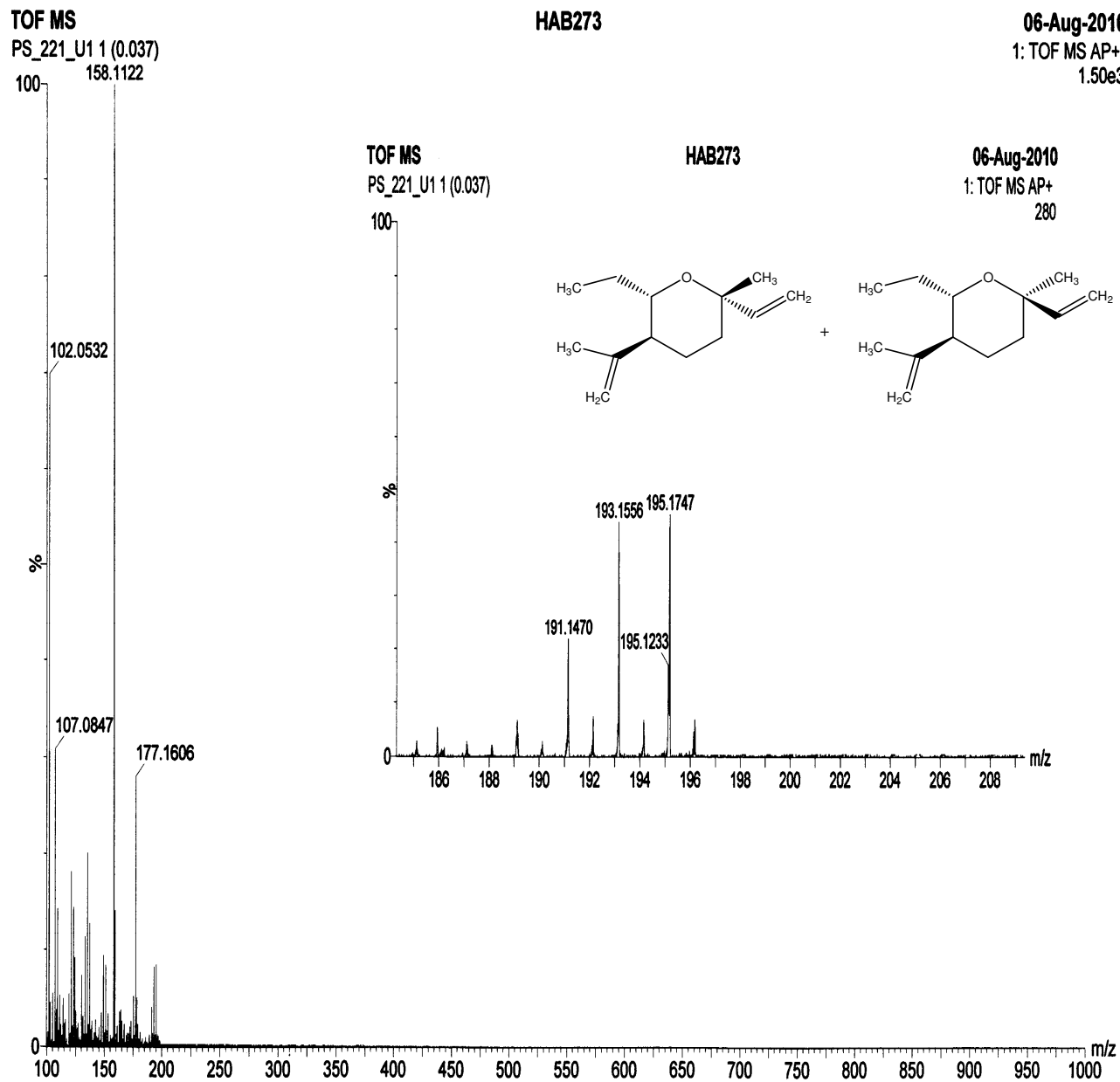
TOF MS

PS_299_M1 42 (0.884)



20-Aug-2010
1: TOF MS AP+
436

HRMS spectrum of 4e



HRMS spectrum of 4n & 5n

TOF MS

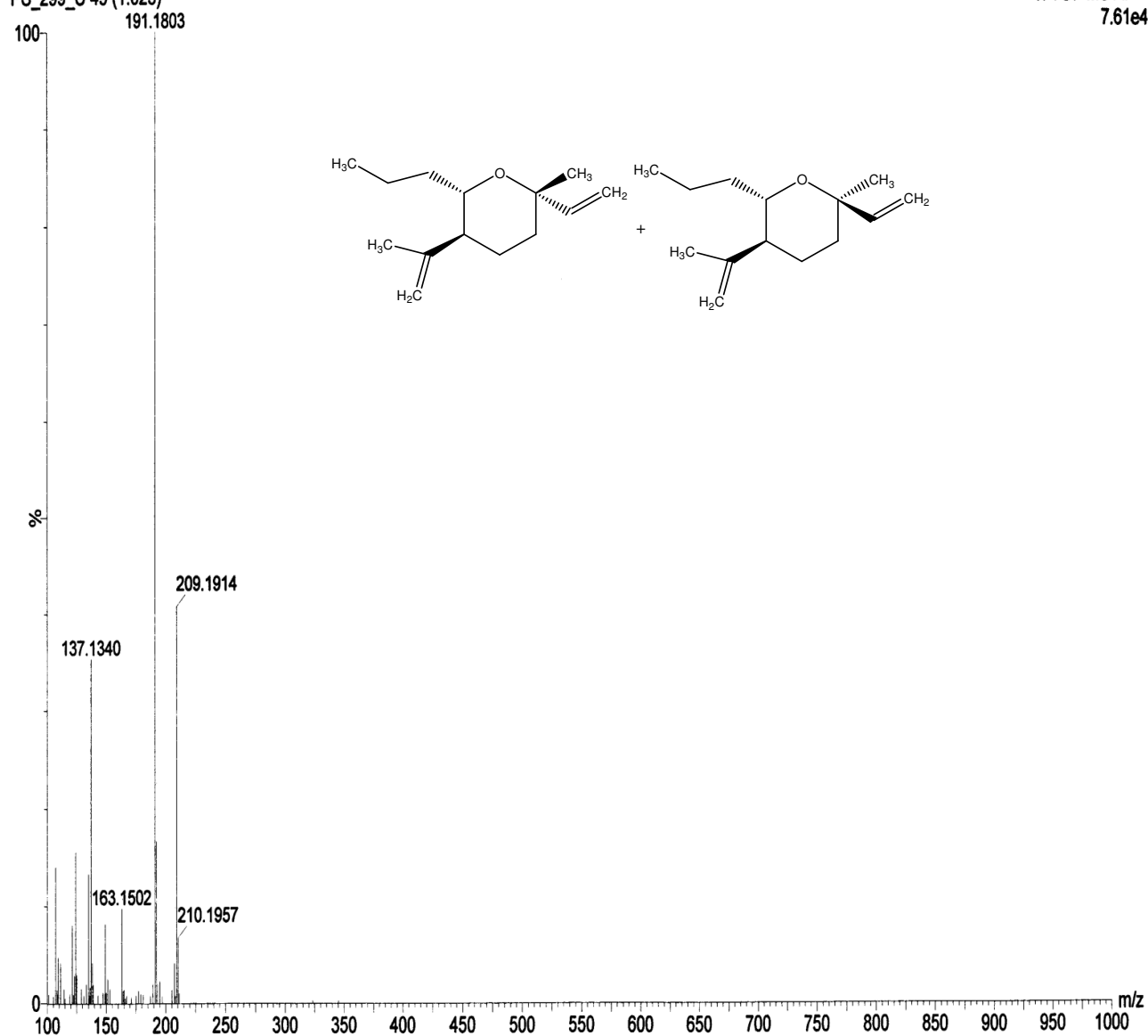
PS_299_U 49 (1.025)

HAB273

09-Aug-2010

1: TOF MS AP+

7.61e4



HRMS spectrum of 4o & 5o

TOF MS

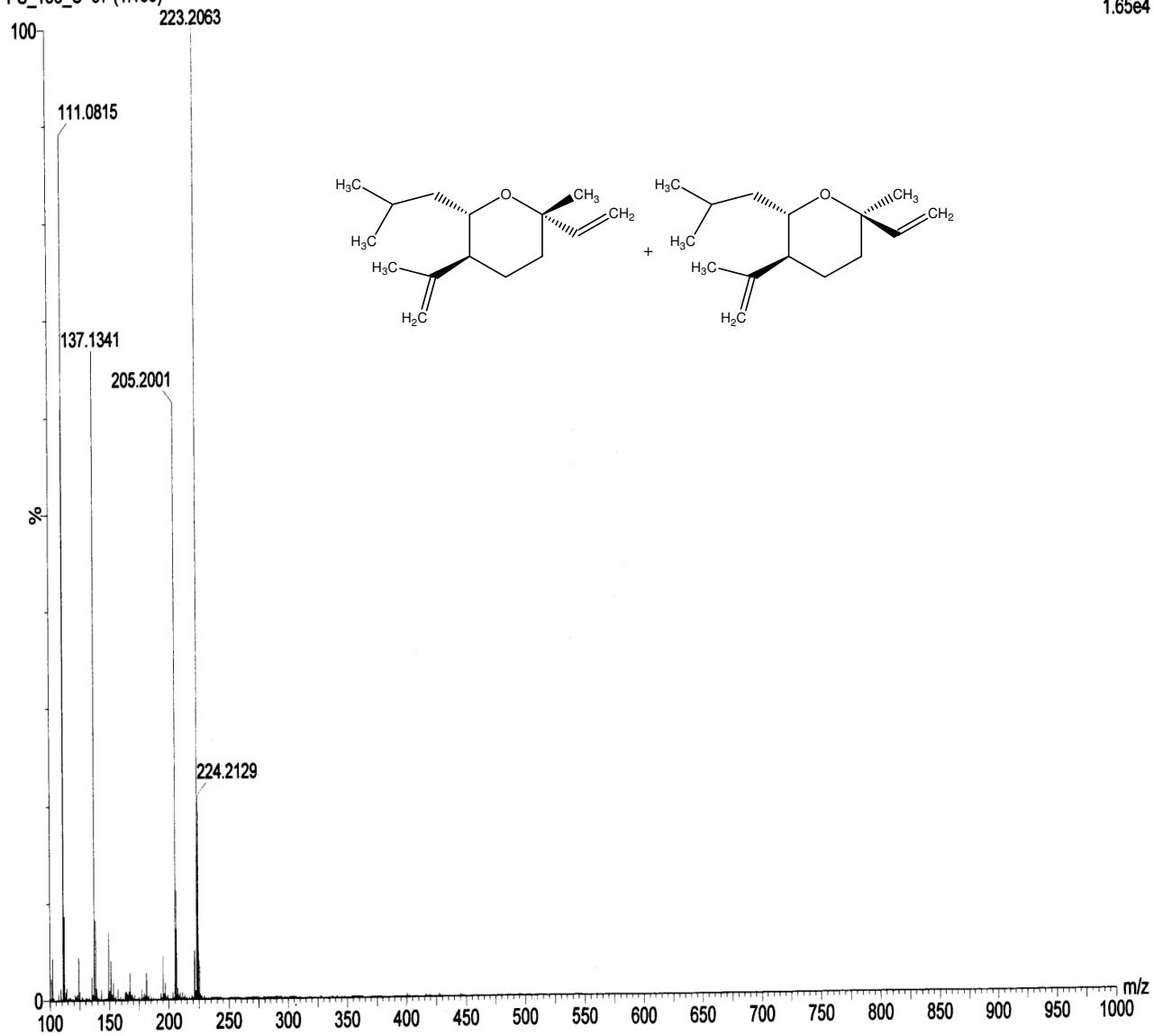
PS_188_U 57 (1.189)

HAB273

05-Aug-2010

1: TOF MS AP+

1.65e4



HRMS spectrum of 4p & 5p

TOF MS

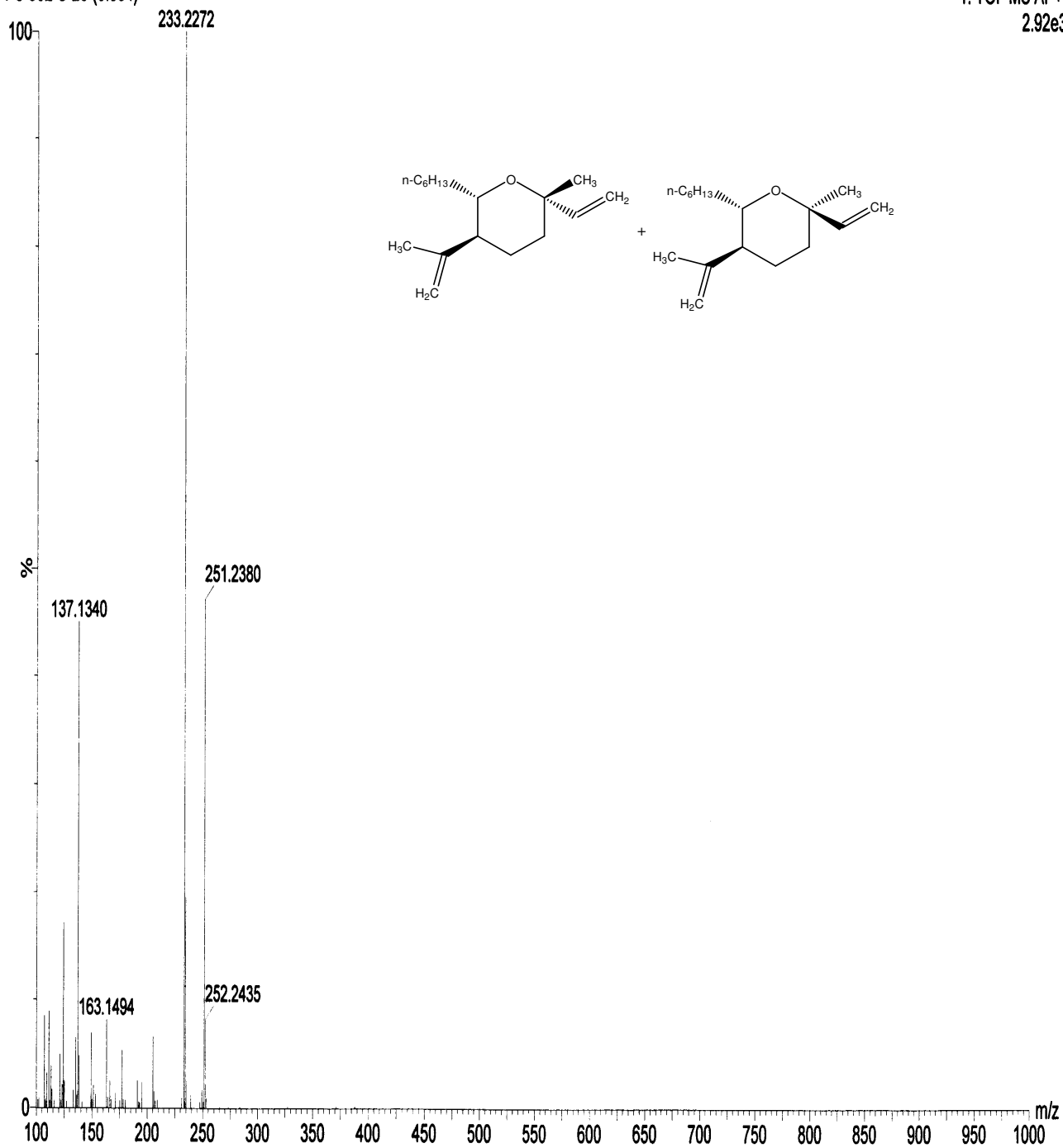
PS 302 U 25 (0.534)

HAB273

09-Aug-2010

1: TOF MS AP+

2.92e3

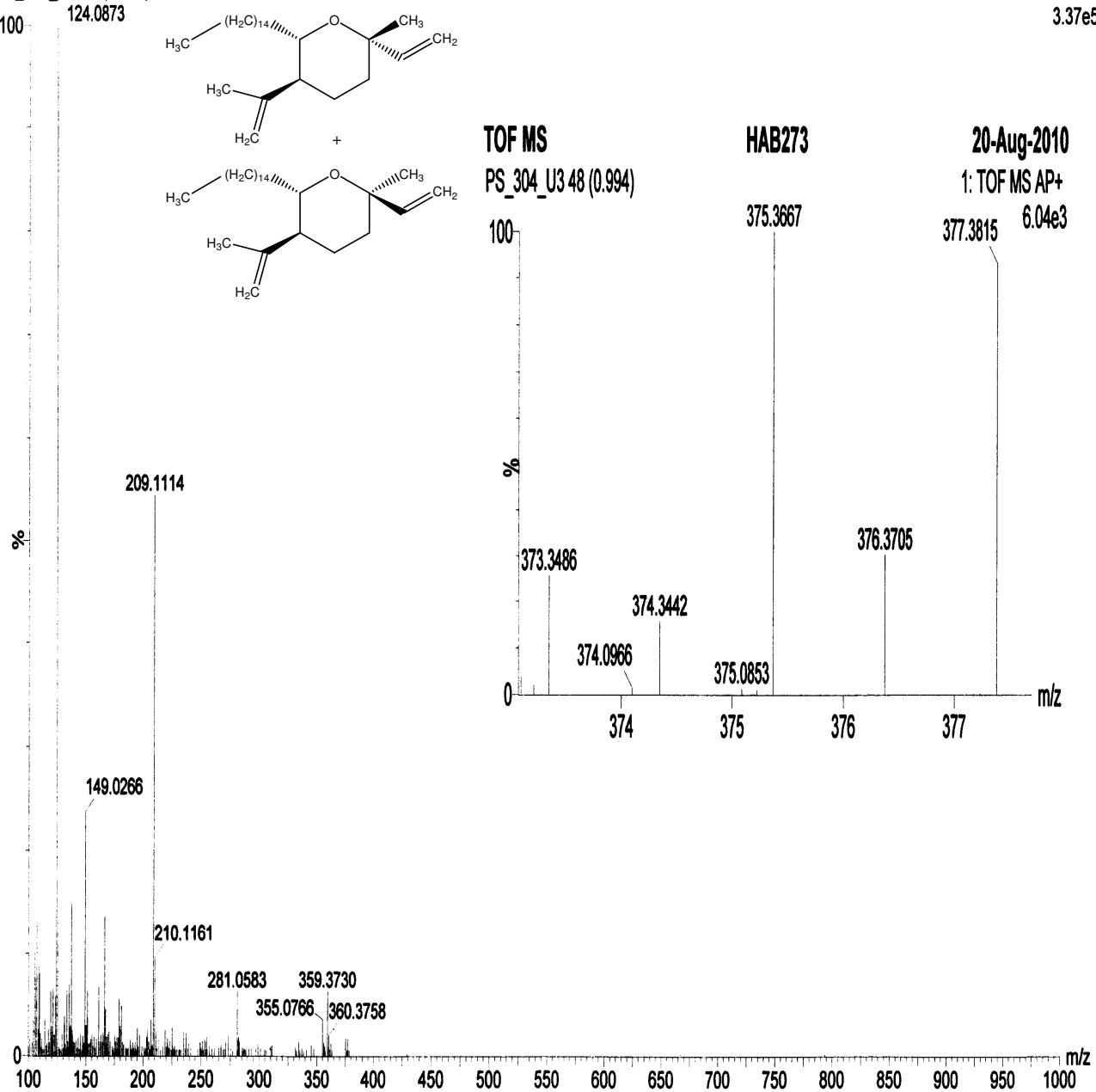
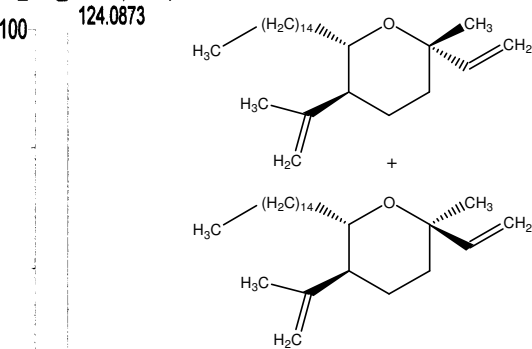


HRMS spectrum of 4q & 5q

TOF MS

PS_304_U3 48 (0.994)

124.0873



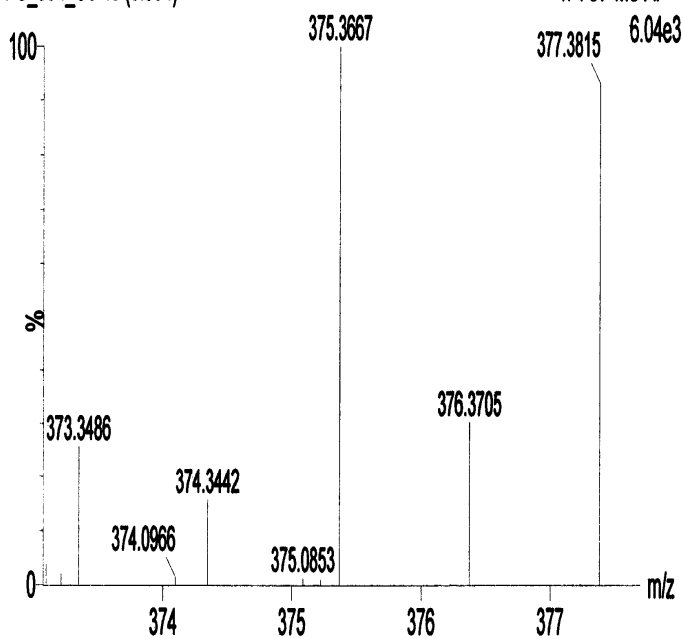
HAB273

20-Aug-2010

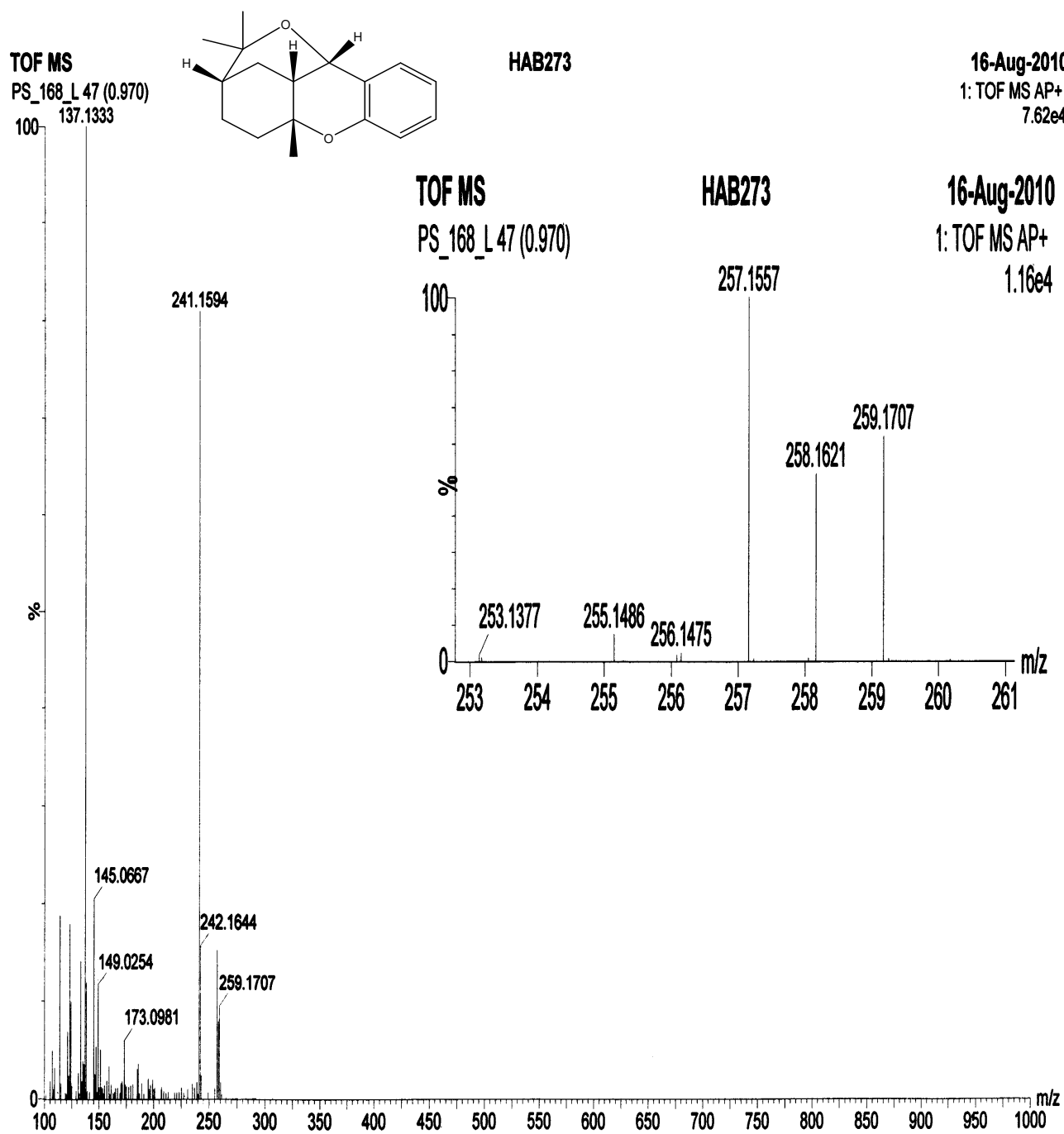
1: TOF MS AP+
3.37e5

TOF MS

PS_304_U3 48 (0.994)



HRMS spectrum of 4r & 5r

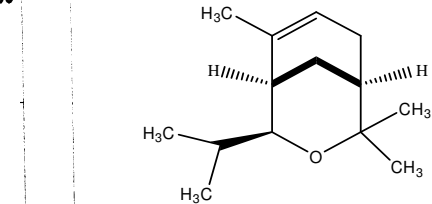


HRMS spectrum of 15

TOF MS

PS_314_U 56 (1.153)

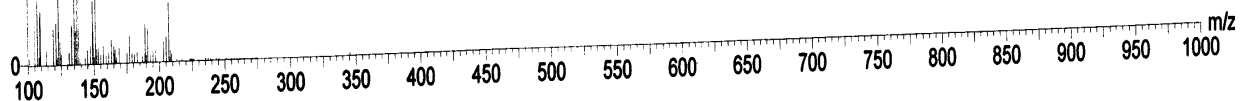
137.1349



%

138.1399

151.1160



HRMS spectrum of 17b

HAB273

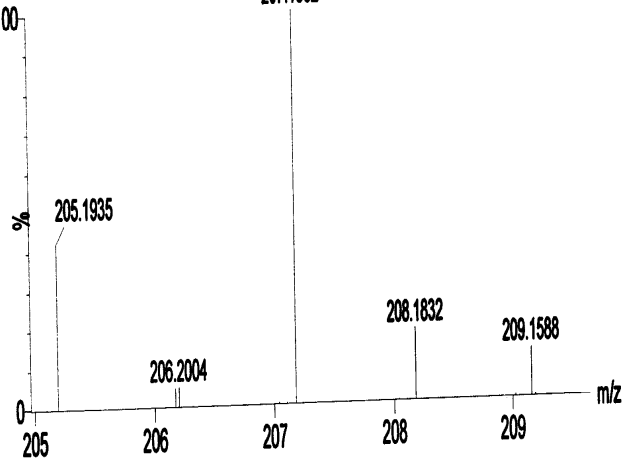
18-Aug-2010

1: TOF MS AP+
6.93e4

TOF MS

PS_314_U 56 (1.153)

100



HAB273

18-Aug-2010

1: TOF MS AP+
3.70e3

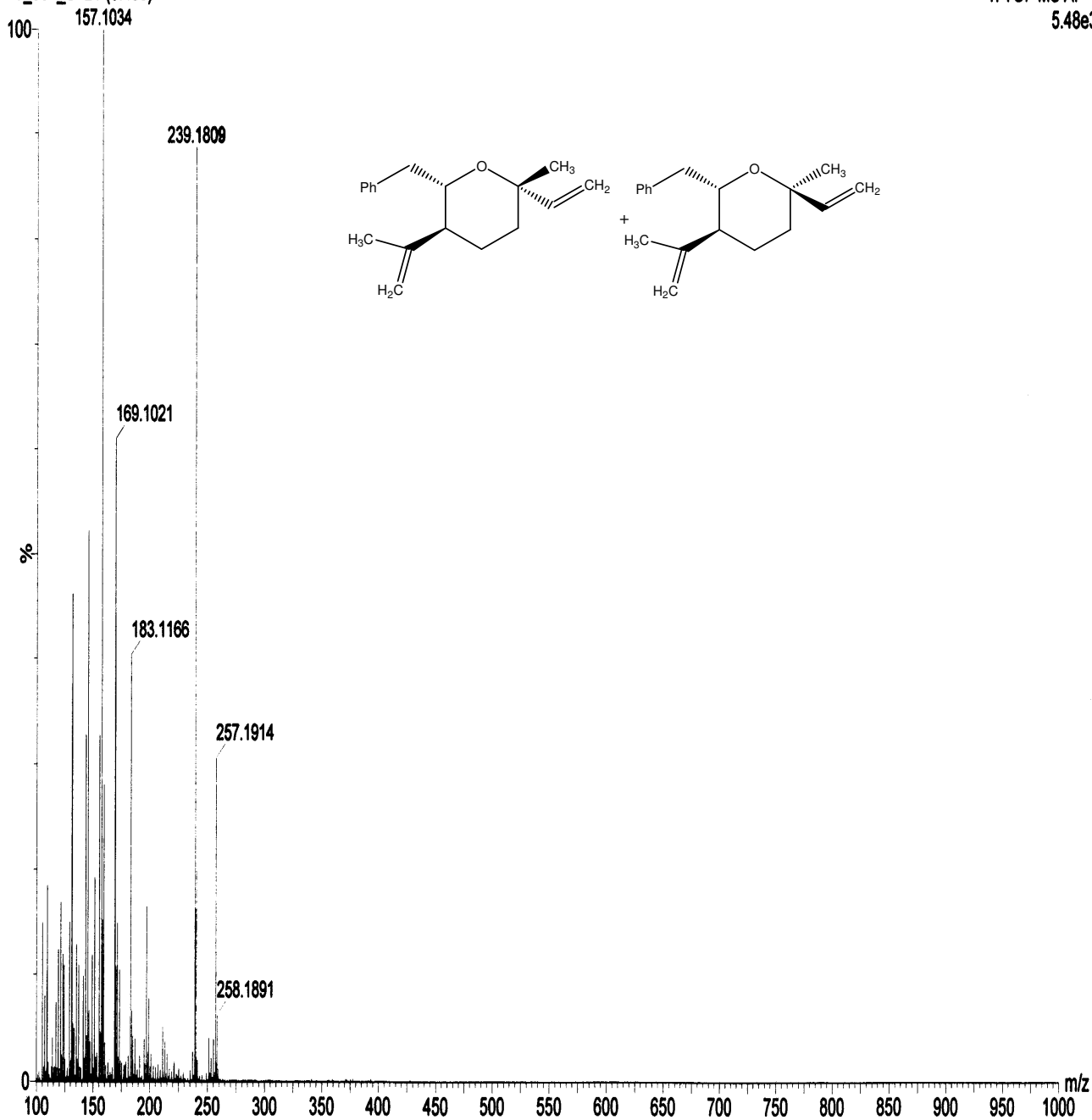
TOF MS

PS_307_U 21 (0.439)

HAB273

18-Aug-2010

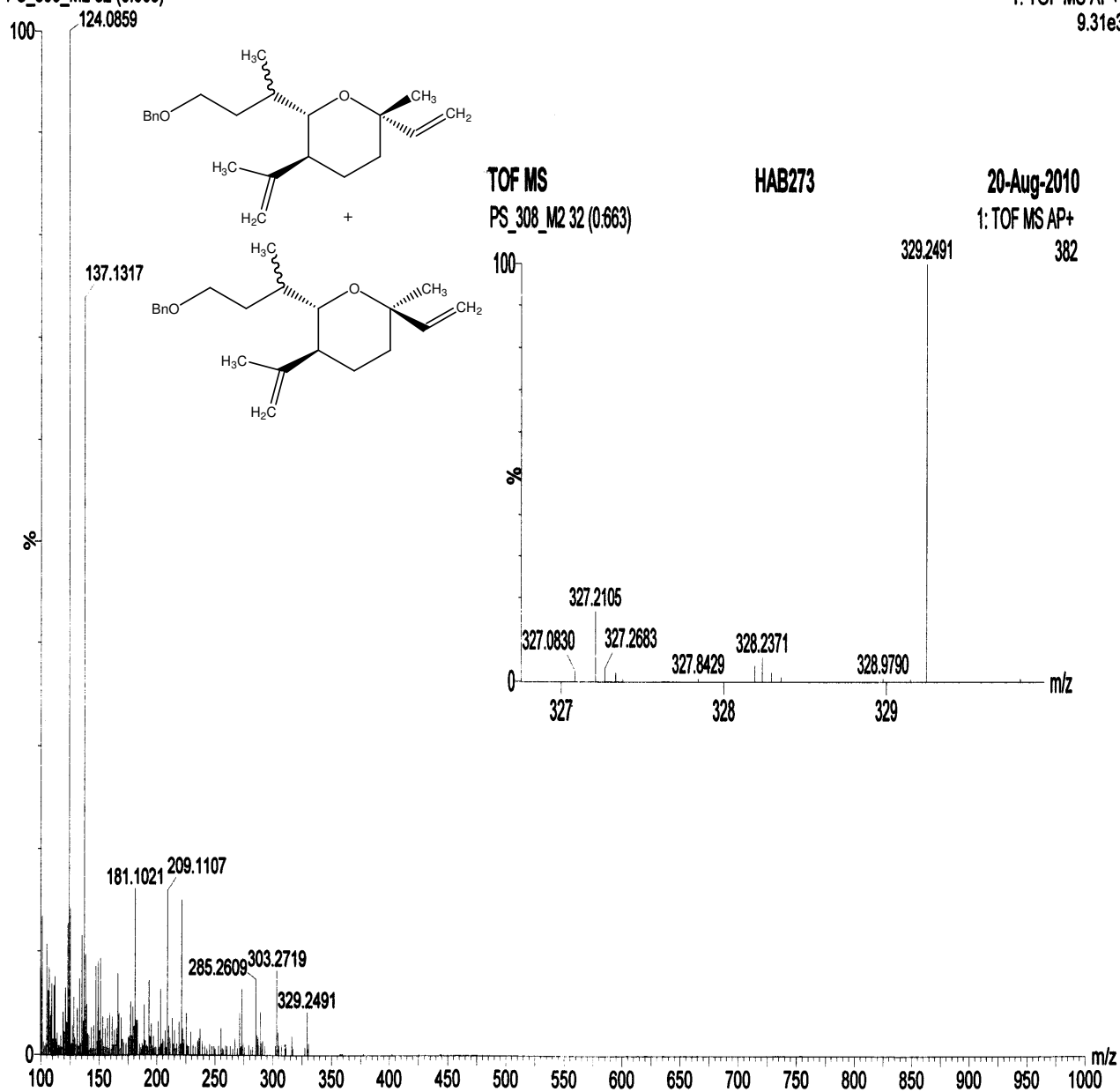
1: TOF MS AP+
5.48e3



HRMS spectrum of 18c & 19c

TOF MS

PS_308_M2 32 (0.663)



HRMS spectrum of 18d & 19d

TOF MS

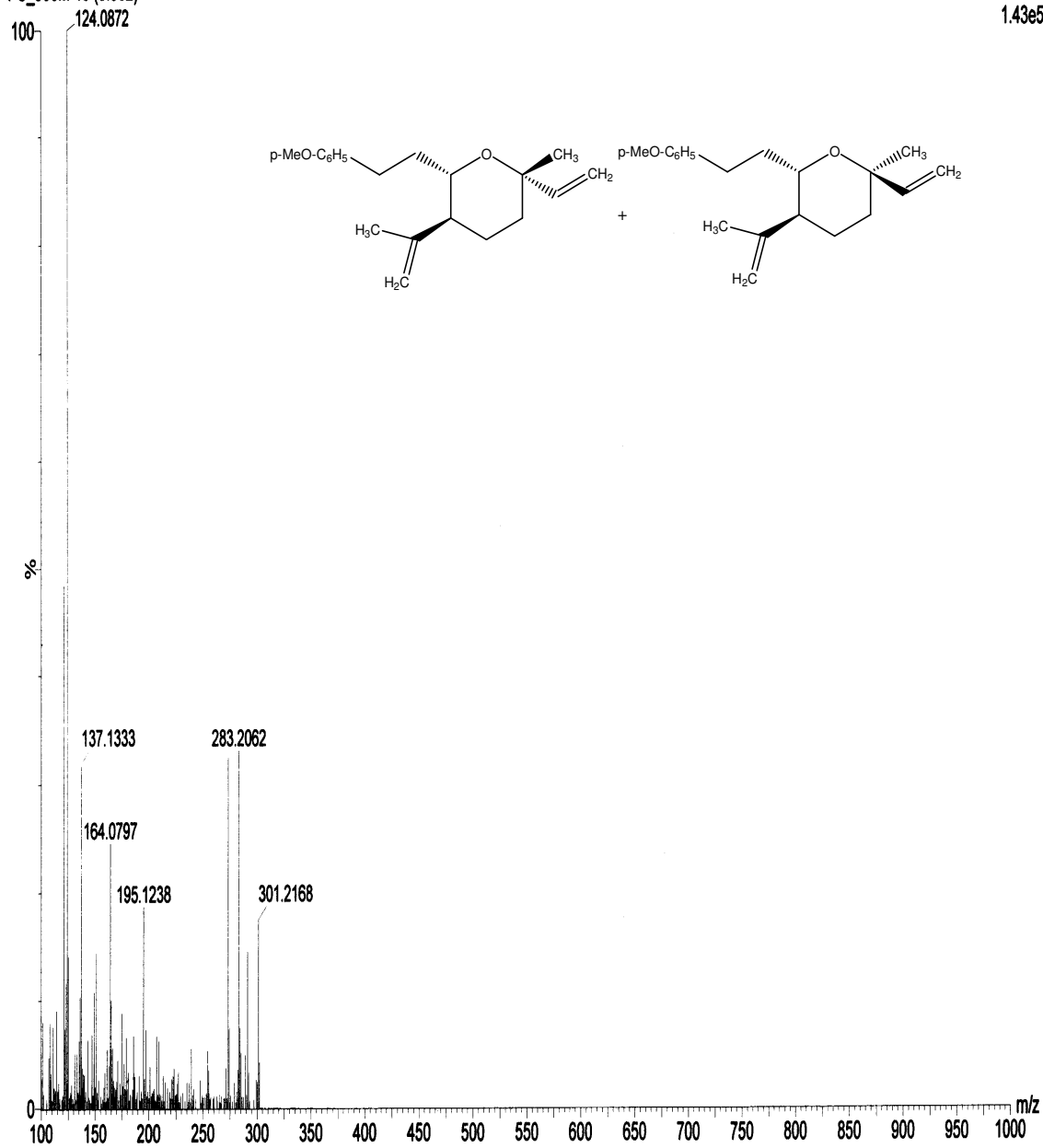
PS_368M 43 (0.902)

HAB273

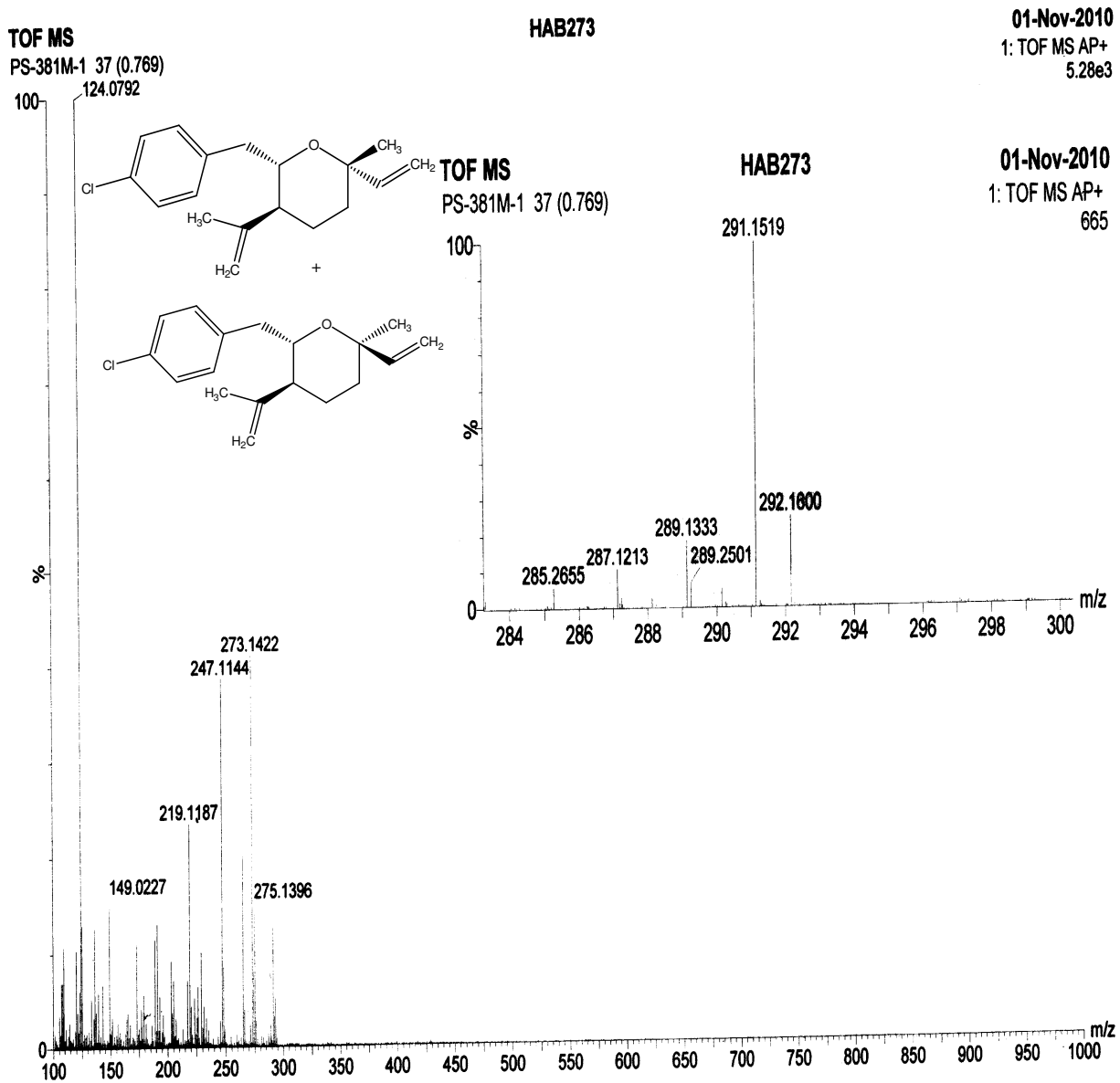
07-Oct-2010

1: TOF MS AP+

1.43e5



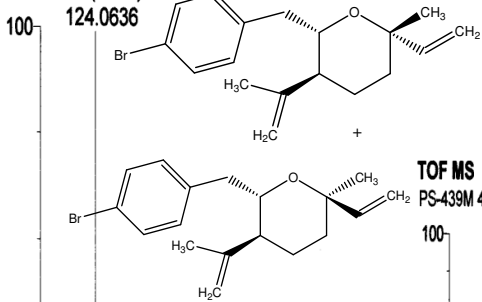
HRMS spectrum of 18e & 19e



HRMS spectrum of 18f & 19f

TOF MS

PS-439M 4 (0.068)

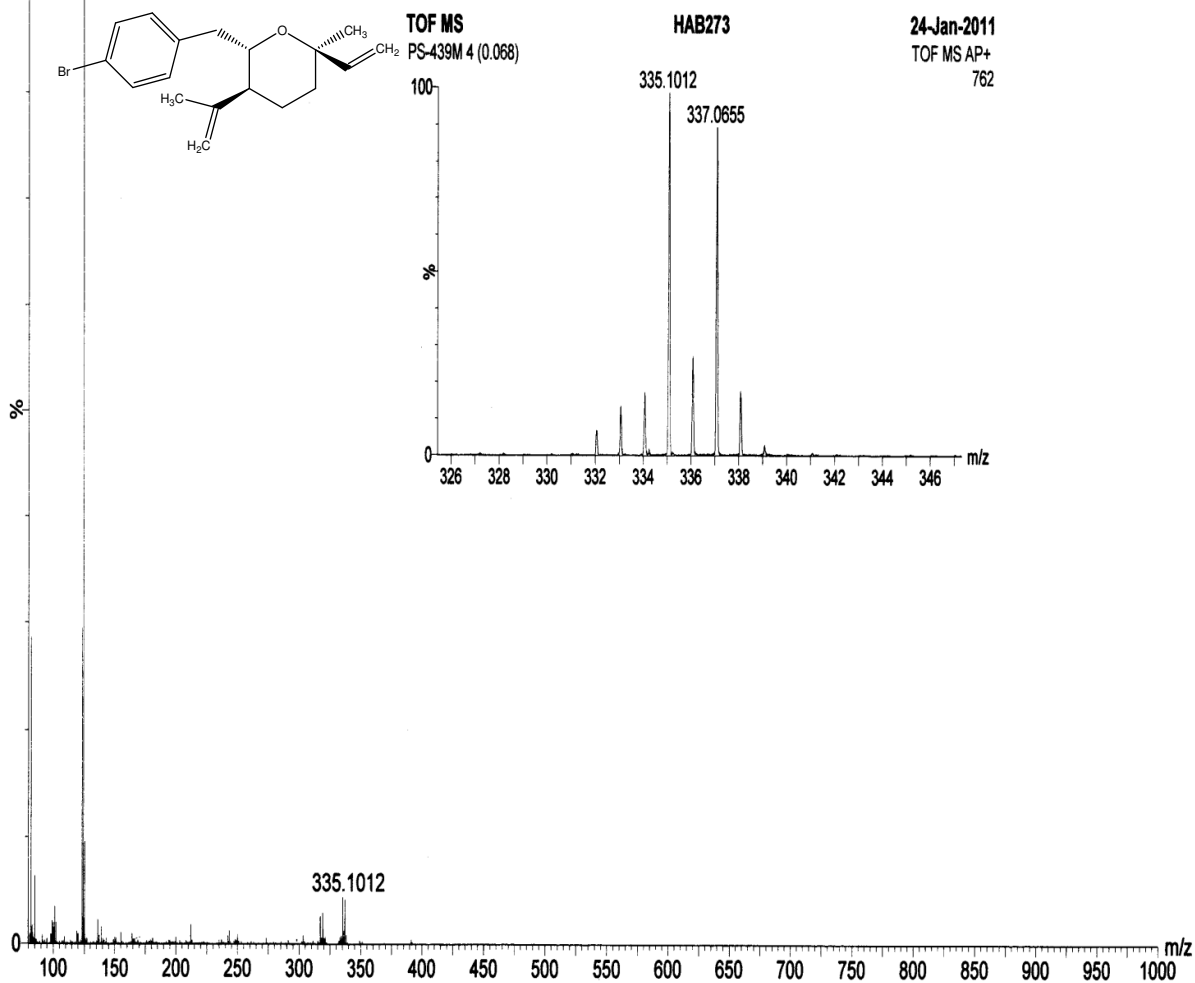


HAB273

24-Jan-2011

TOF MS AP+

1.65e4



HRMS spectrum of 18g & 19g