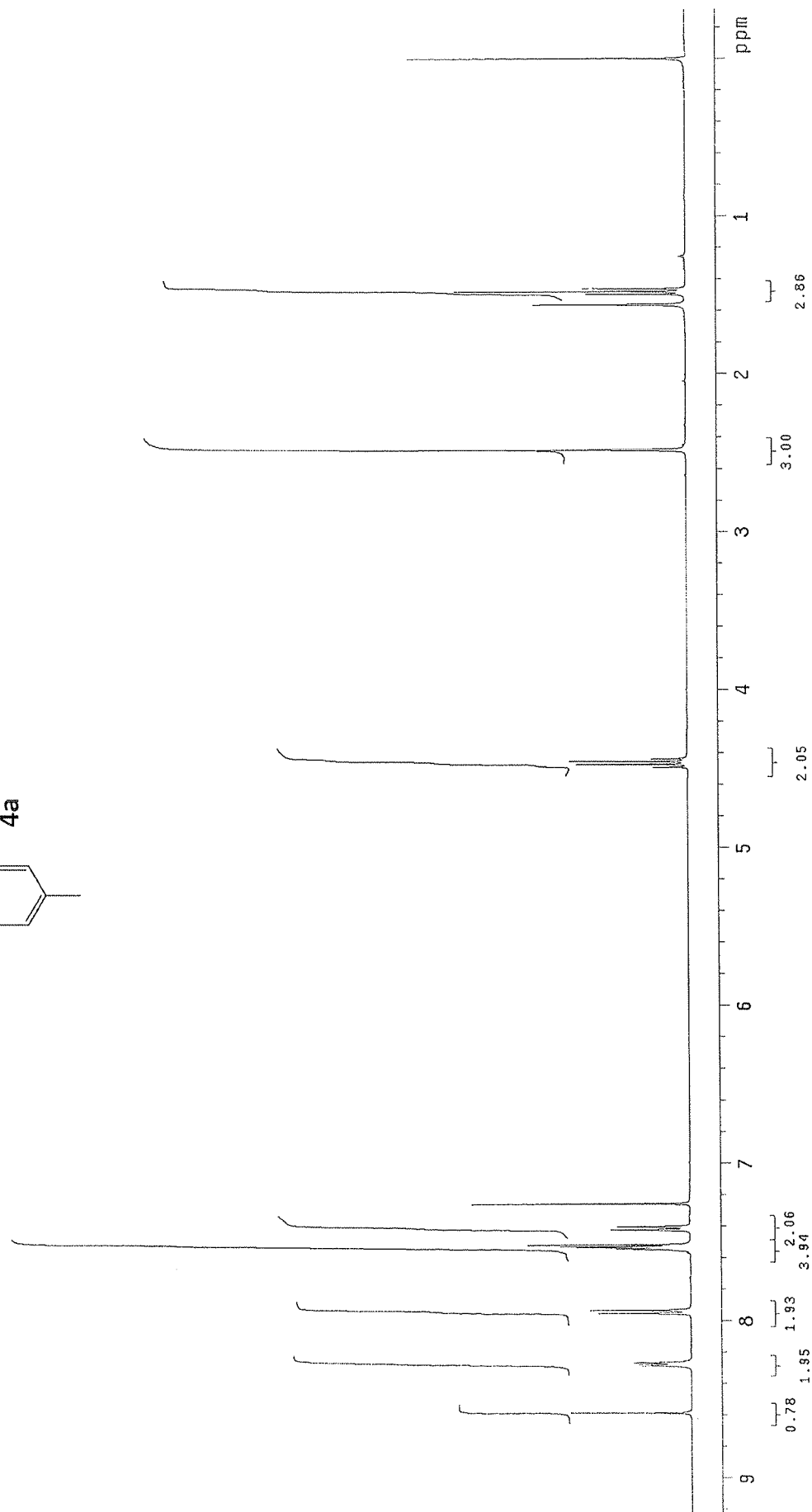
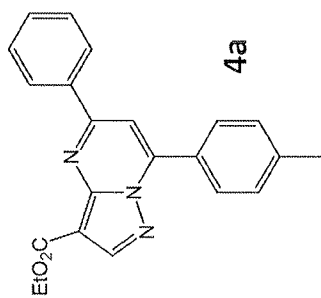
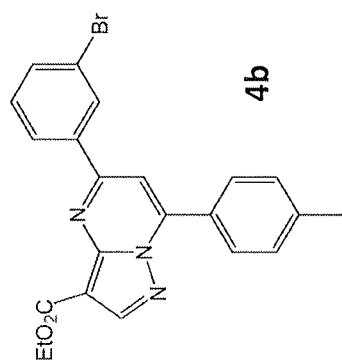


Copies of ¹H NMR

NMR-400 in CDCl₃
AK.NO:ME0511/1922
Date:18th May . 2011

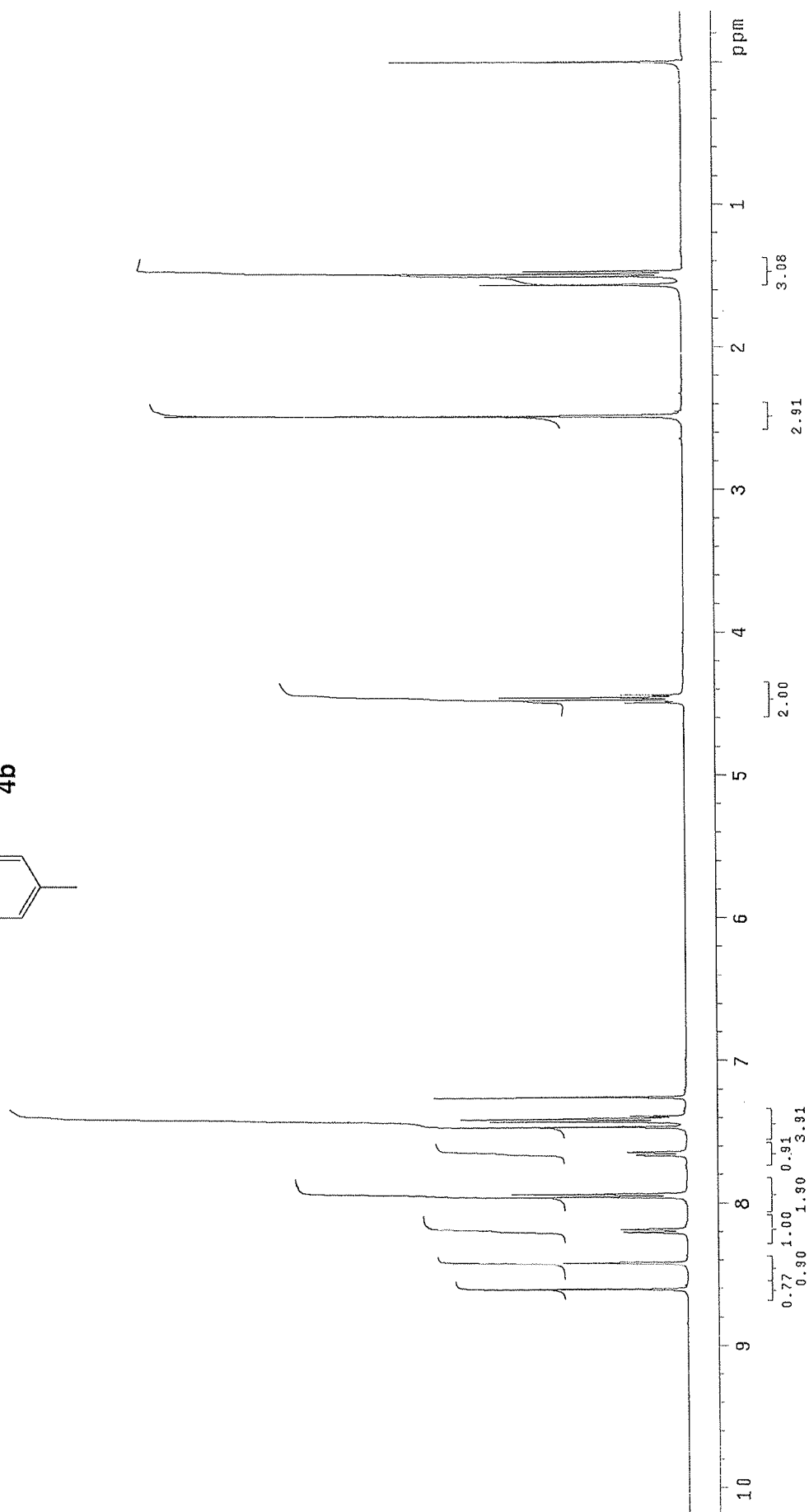


Copies of ¹H NMR



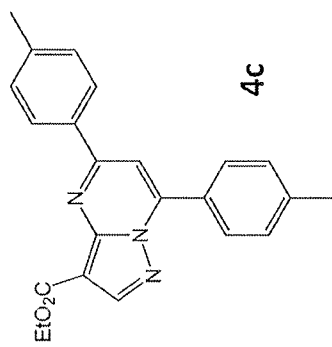
4b

NMR-400 in CDCl₃
AK.NO:ME0511/1923
Date:18th May. 2011

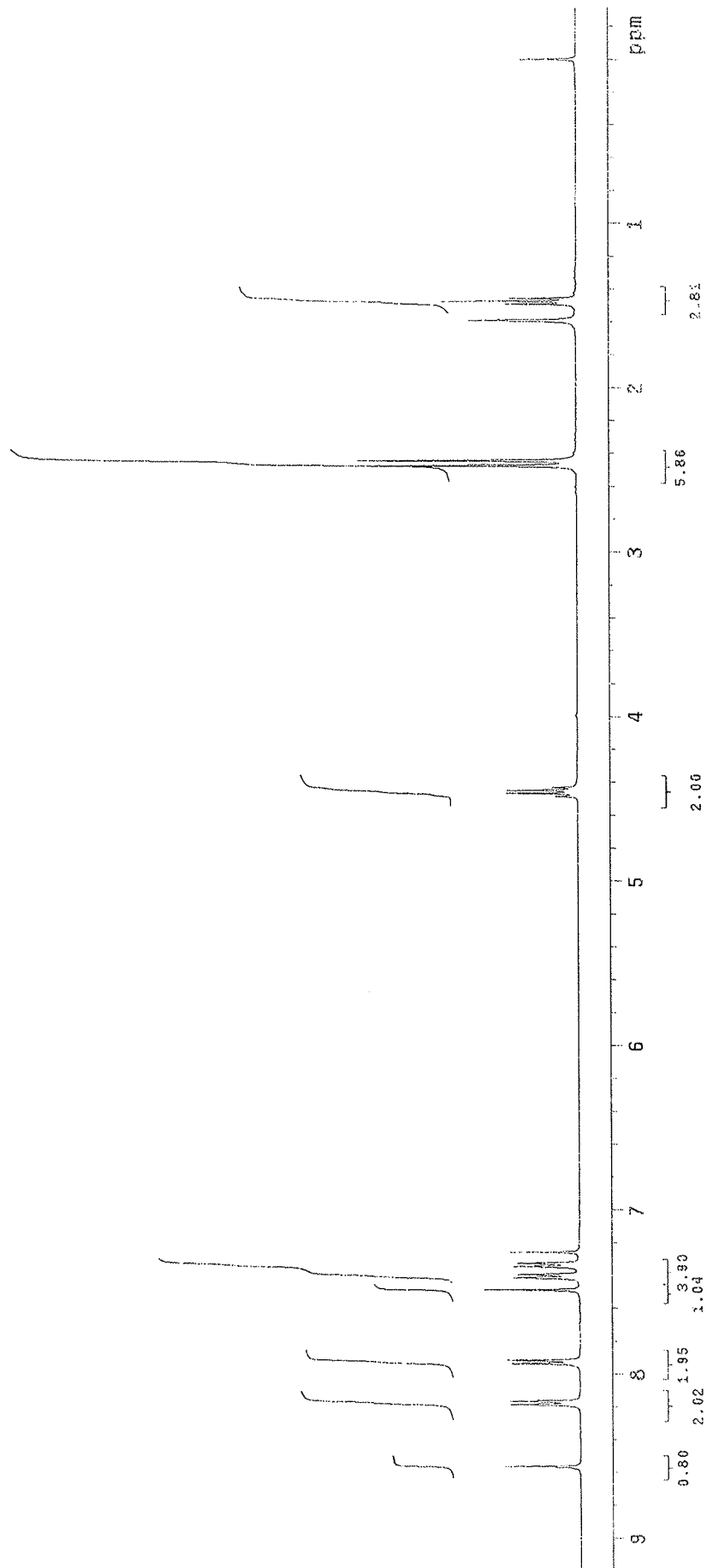


Copies of ¹H NMR

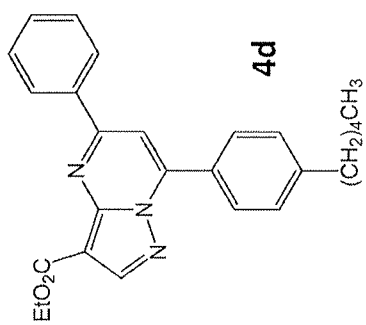
NMR-400 in CDCl₃
AR.No:ME0411/2165
Date: 21 st April, 2011



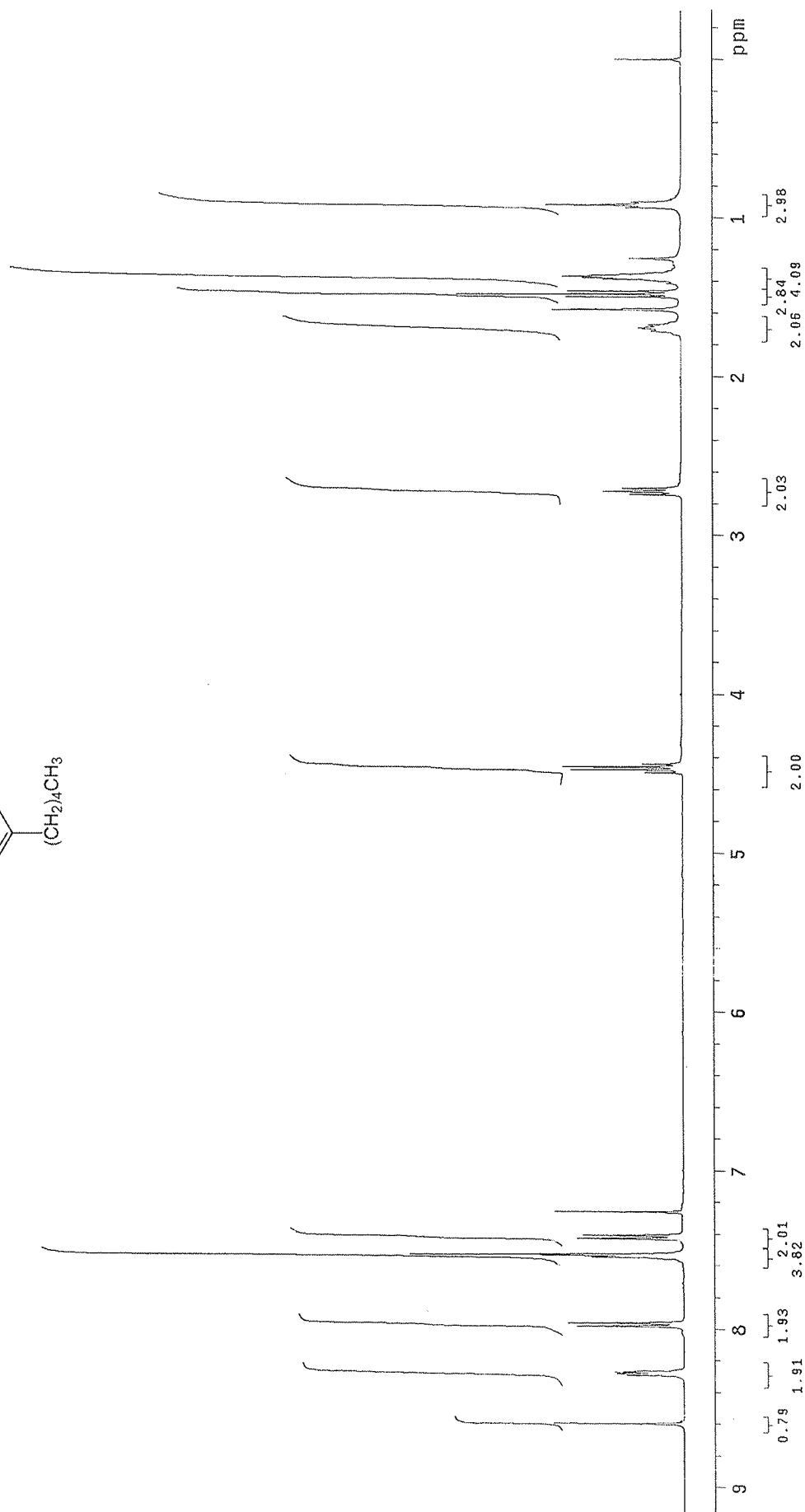
4c



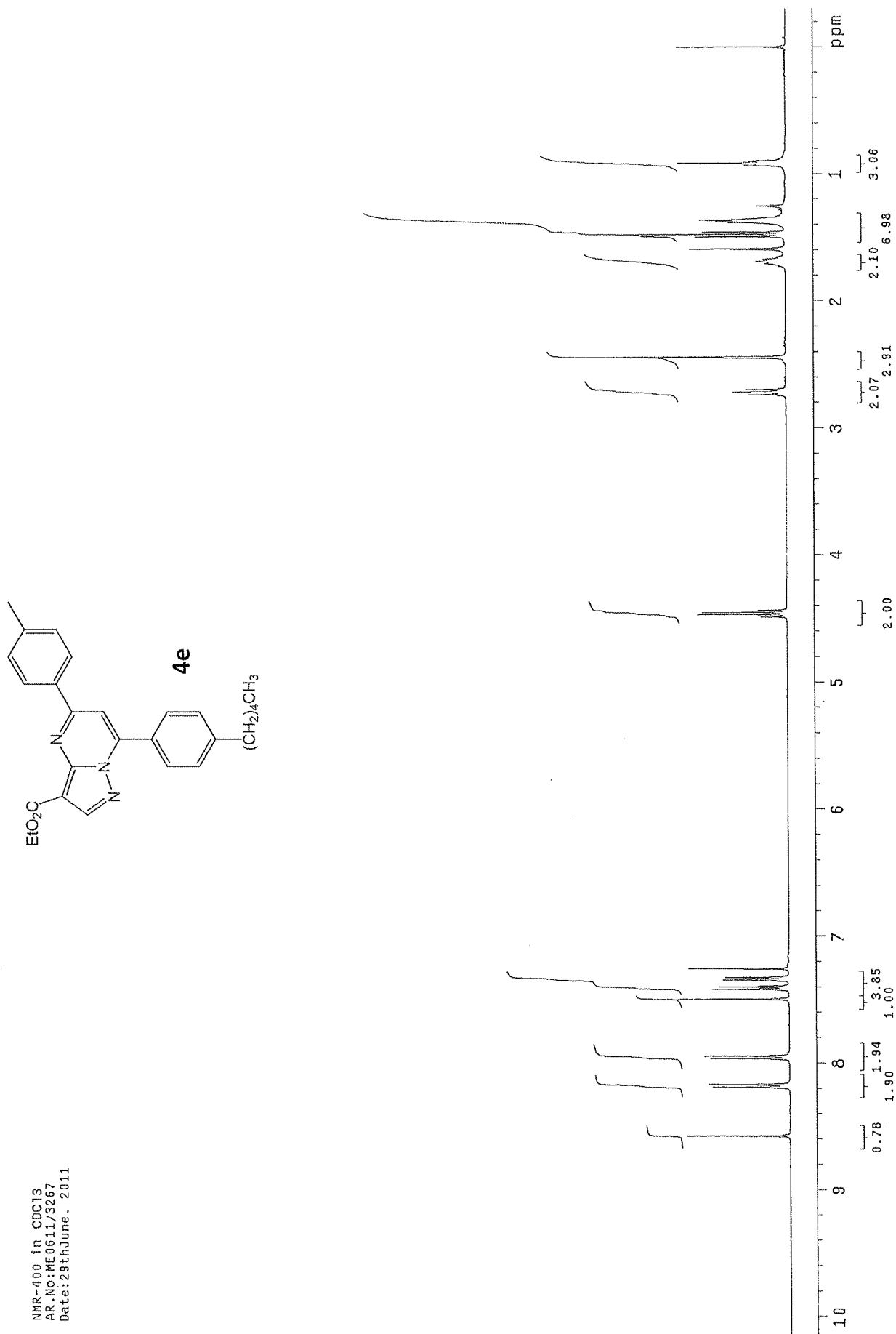
Copies of ¹H NMR



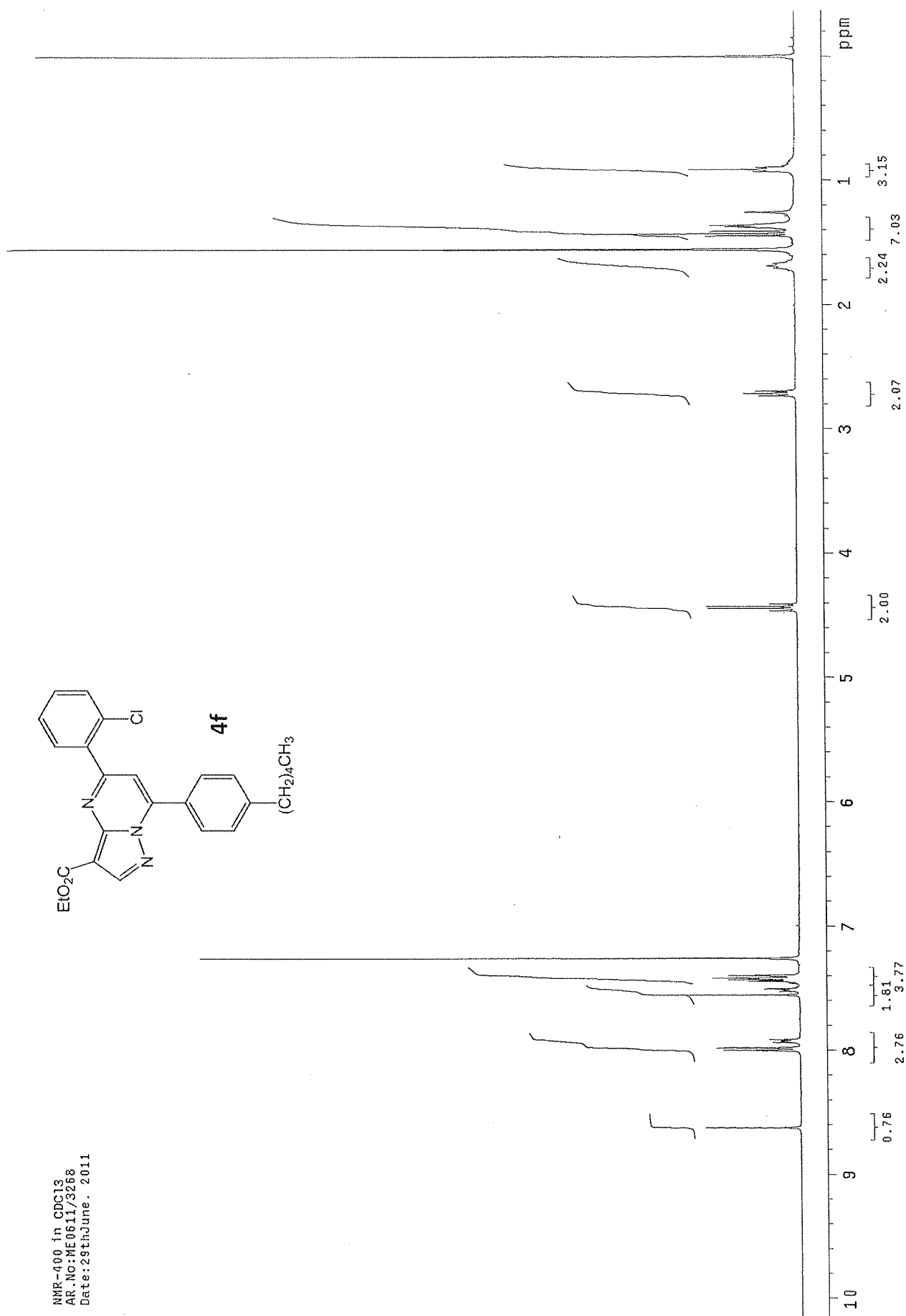
NMR-400 in CDCl₃
AR No: ME0311/1933
Date: 18th March, 2011



Copies of ¹H NMR

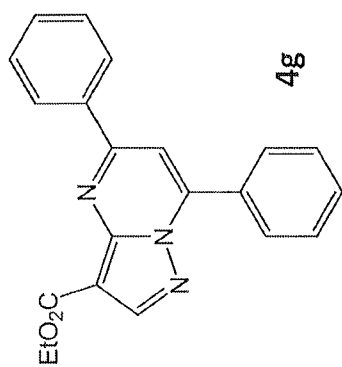


Copies of ¹H NMR



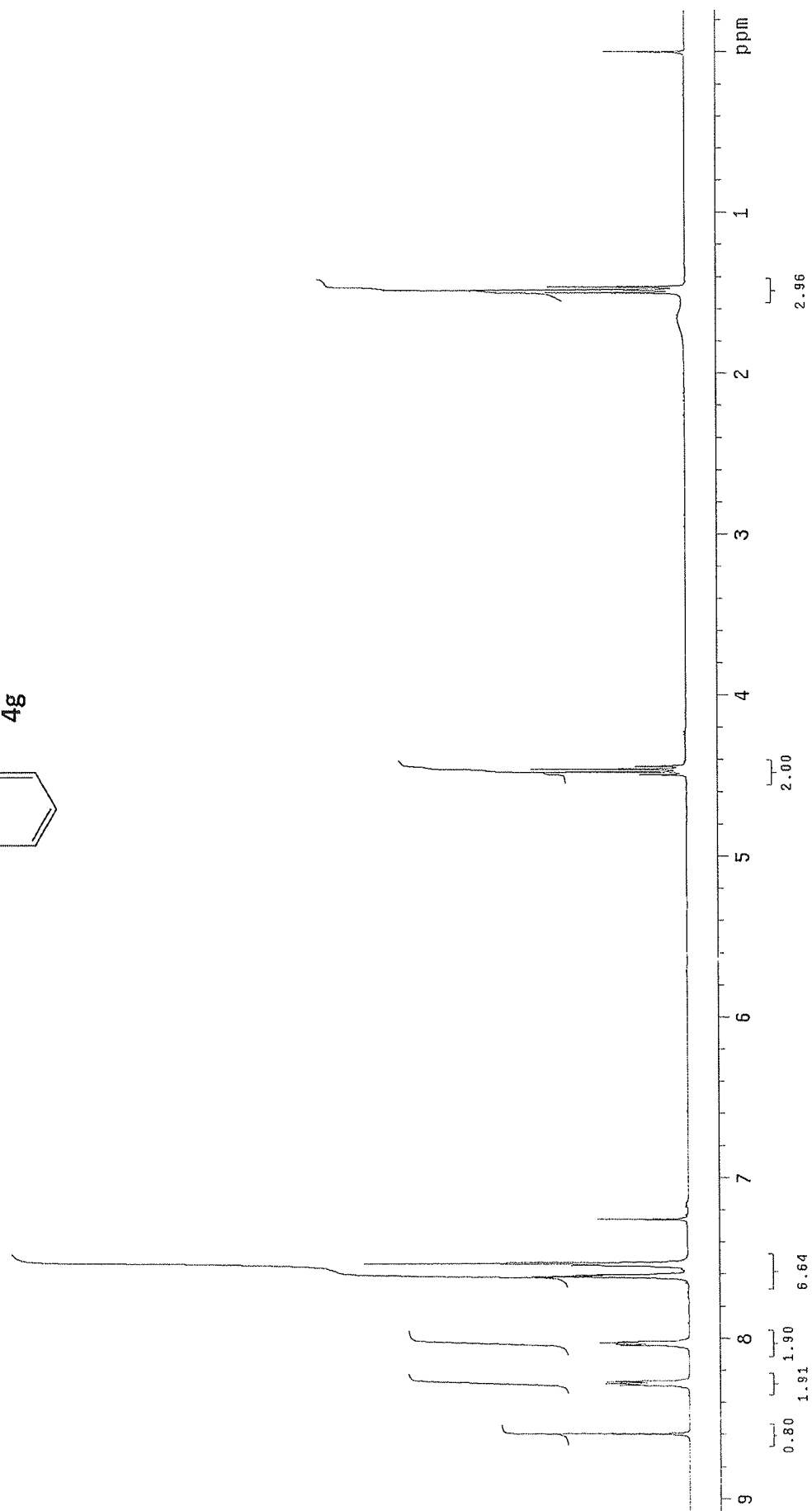
NMR-400 in CDCl₃
AK.No: ME0611/3268
Date: 29th June, 2011

Copies of ¹H NMR



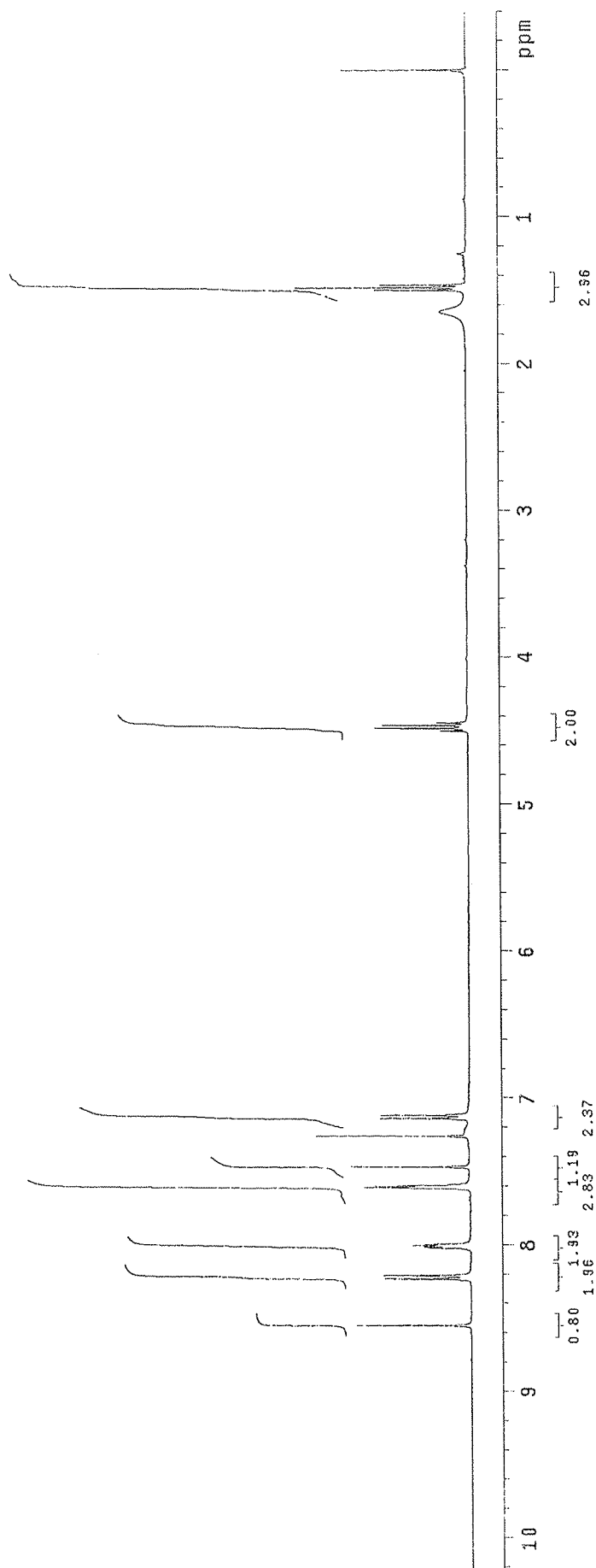
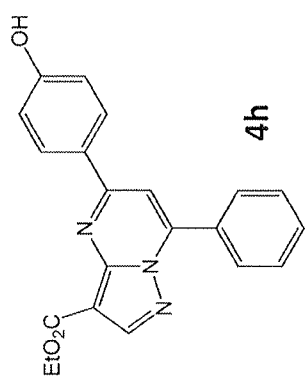
4g

NMR-400 in CDCl₃
AK.No:ME0311/1784
Date: 17th March. 2011

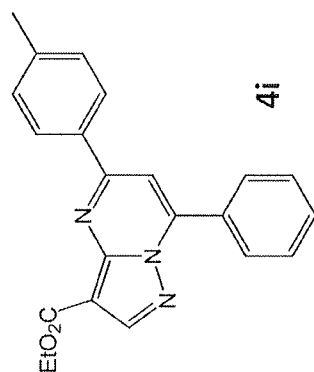


Copies of ¹H NMR

NMR-400 in CDCl₃
AR.No:ME0411/2166
Date: 21 st April. 2011

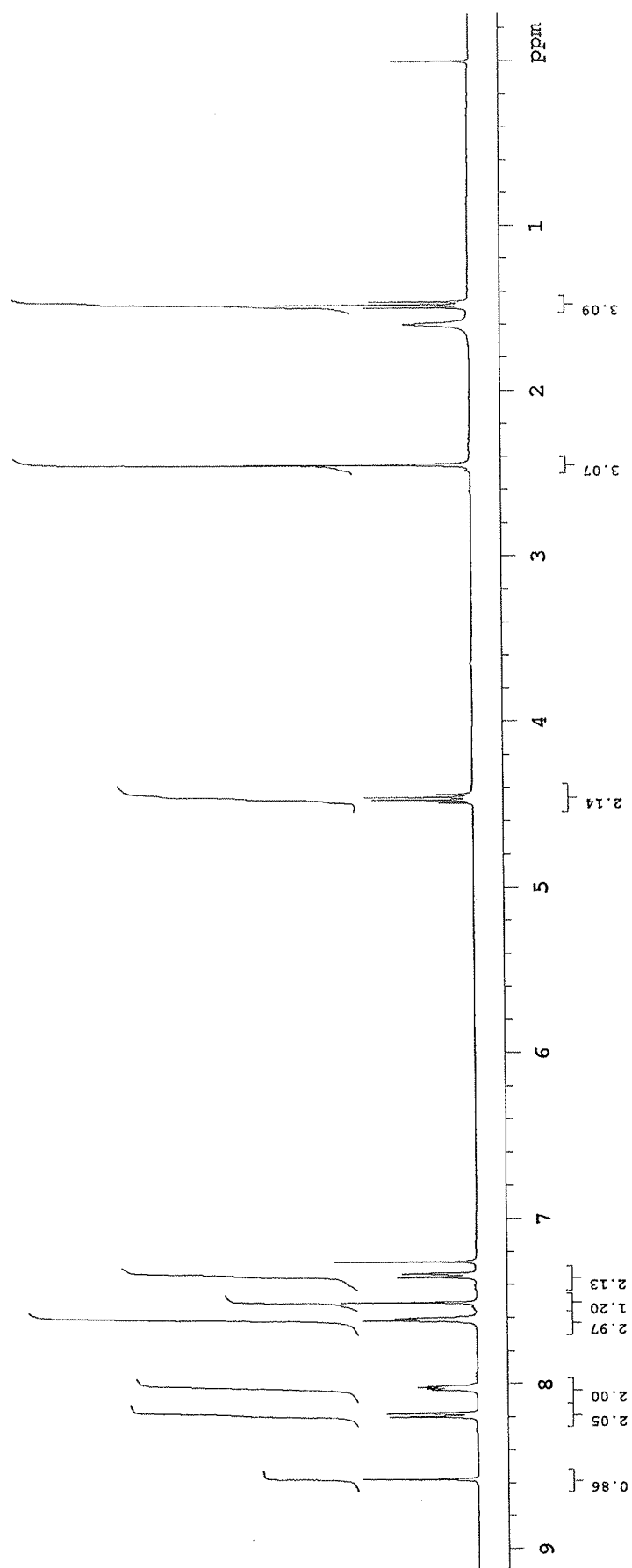


Copies of ¹H NMR

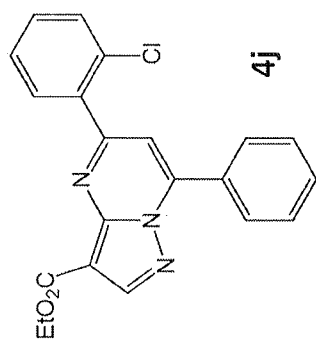


4i

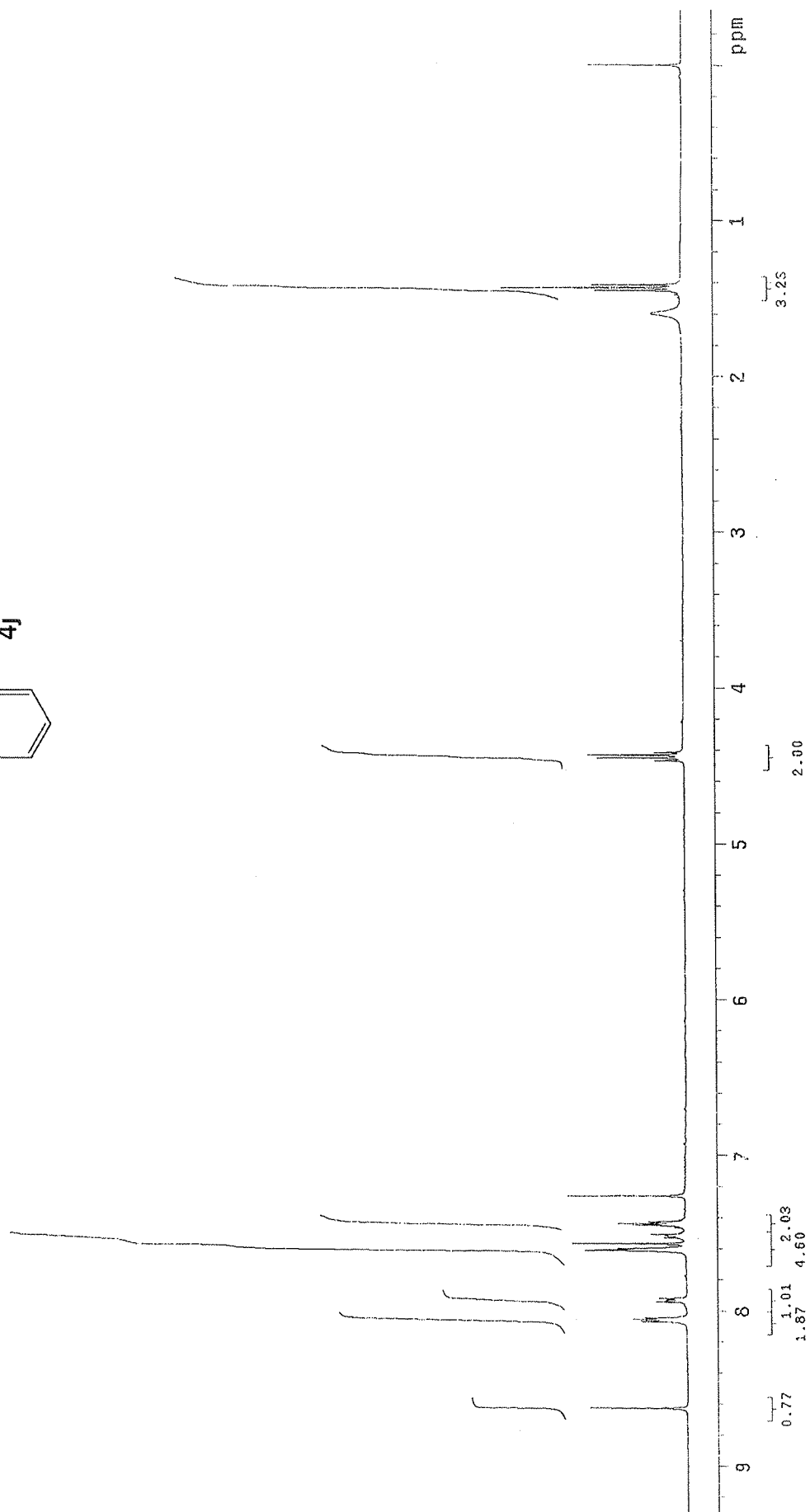
NMR-400 in CDCl₃
AR.No:ME0311/2938
Date: 25 th March, 2011



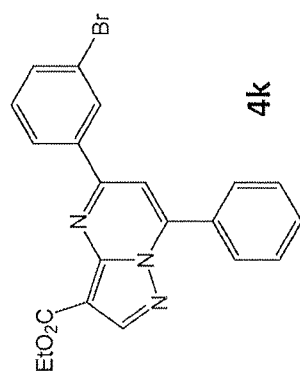
Copies of ¹H NMR



NMR-400 in CDCl₃
AR.NO:ME0411/2167
Date: 21 st April, 2011

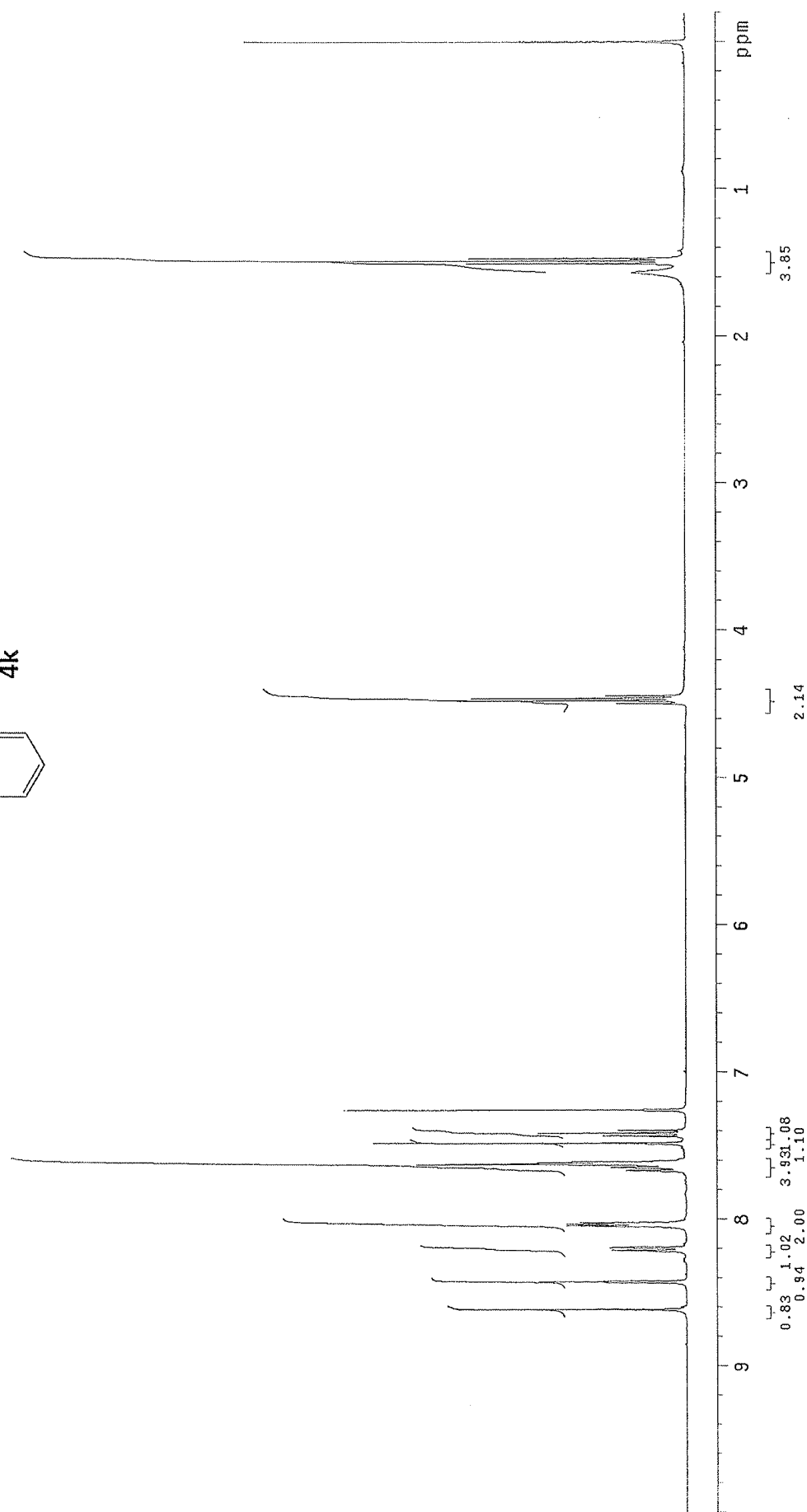


Copies of ¹H NMR



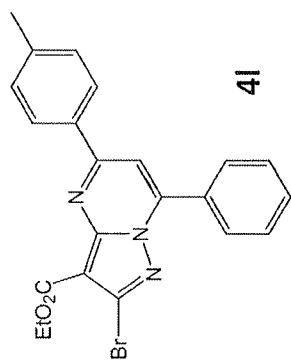
4k

NMR-400 in CDCl₃
AR.No:ME0511/1925
Date: 18th May. 2011

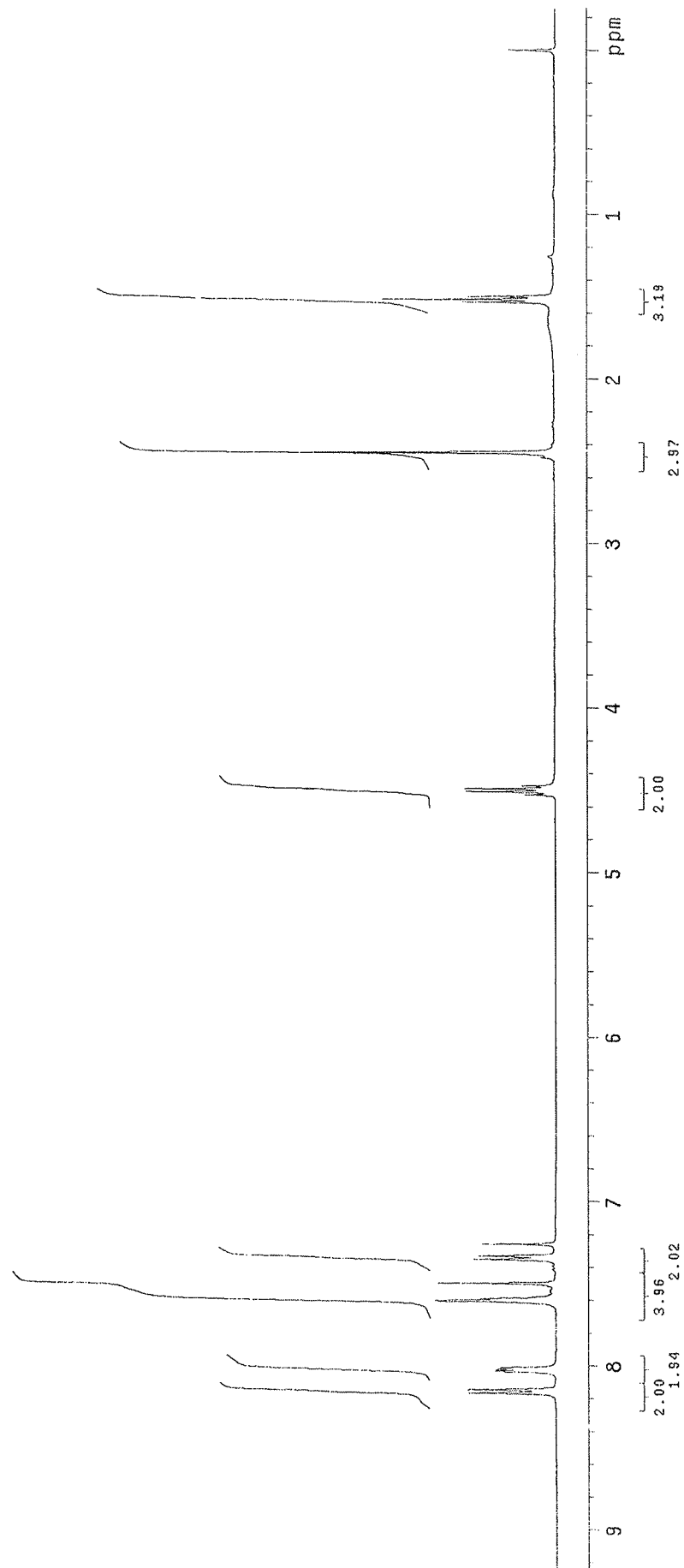


Copies of ¹H NMR

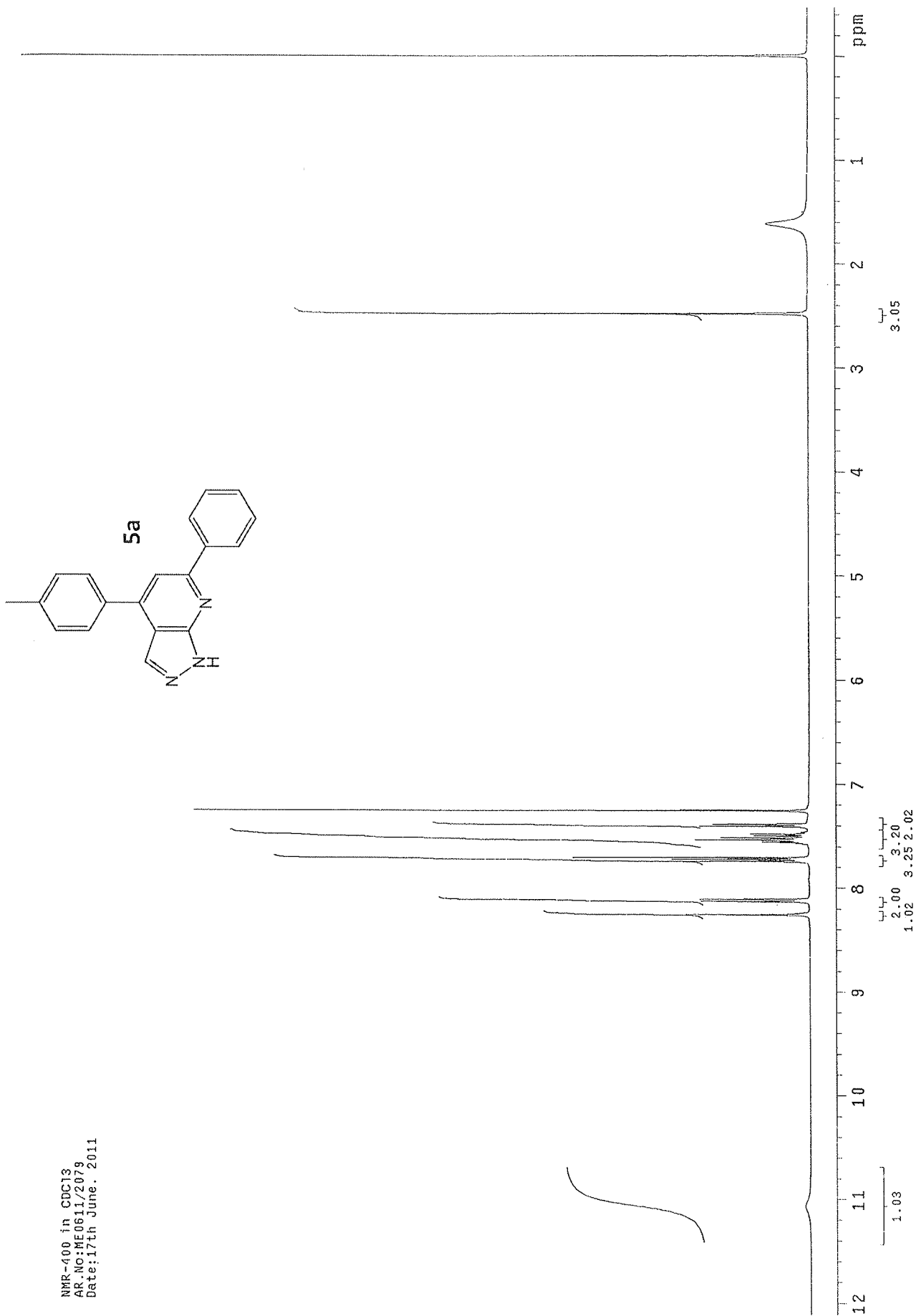
NMR-400 in CDCl₃
AK.NO:ME0411/2168
Date: 21 st April. 2011



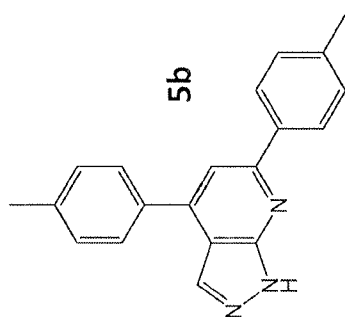
4I



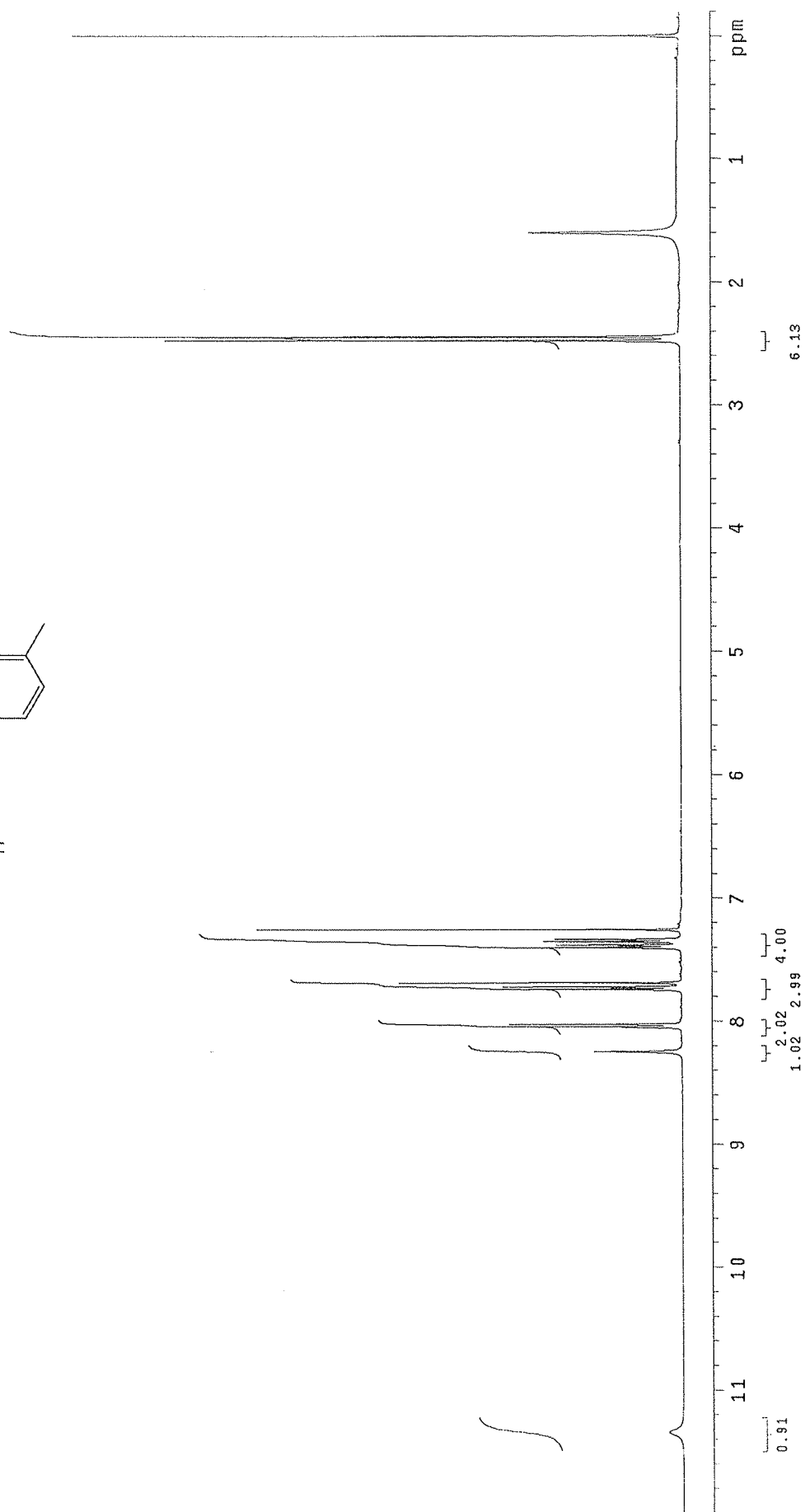
Copies of ¹H NMR



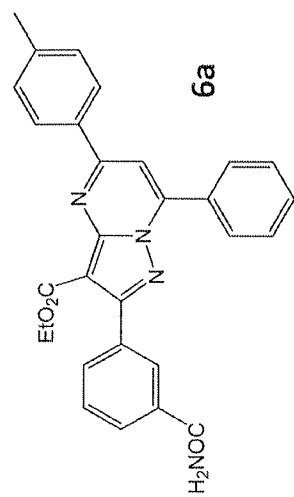
Copies of ¹H NMR



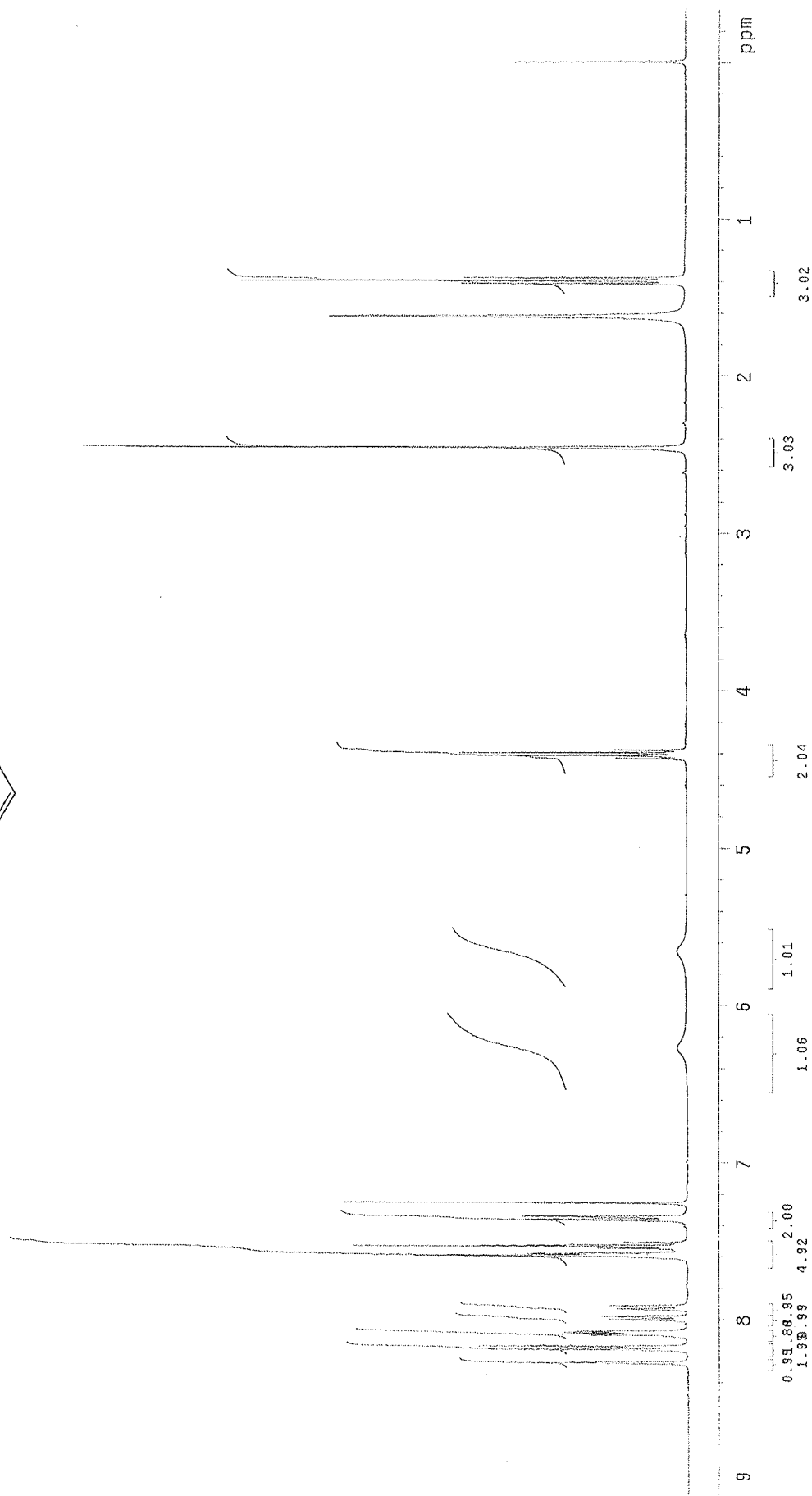
NMR-400 in CDCl₃
AK.NO:ME0711/43
Date:01st July.2011



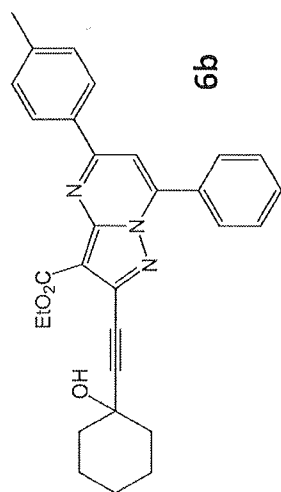
Copies of ¹H NMR



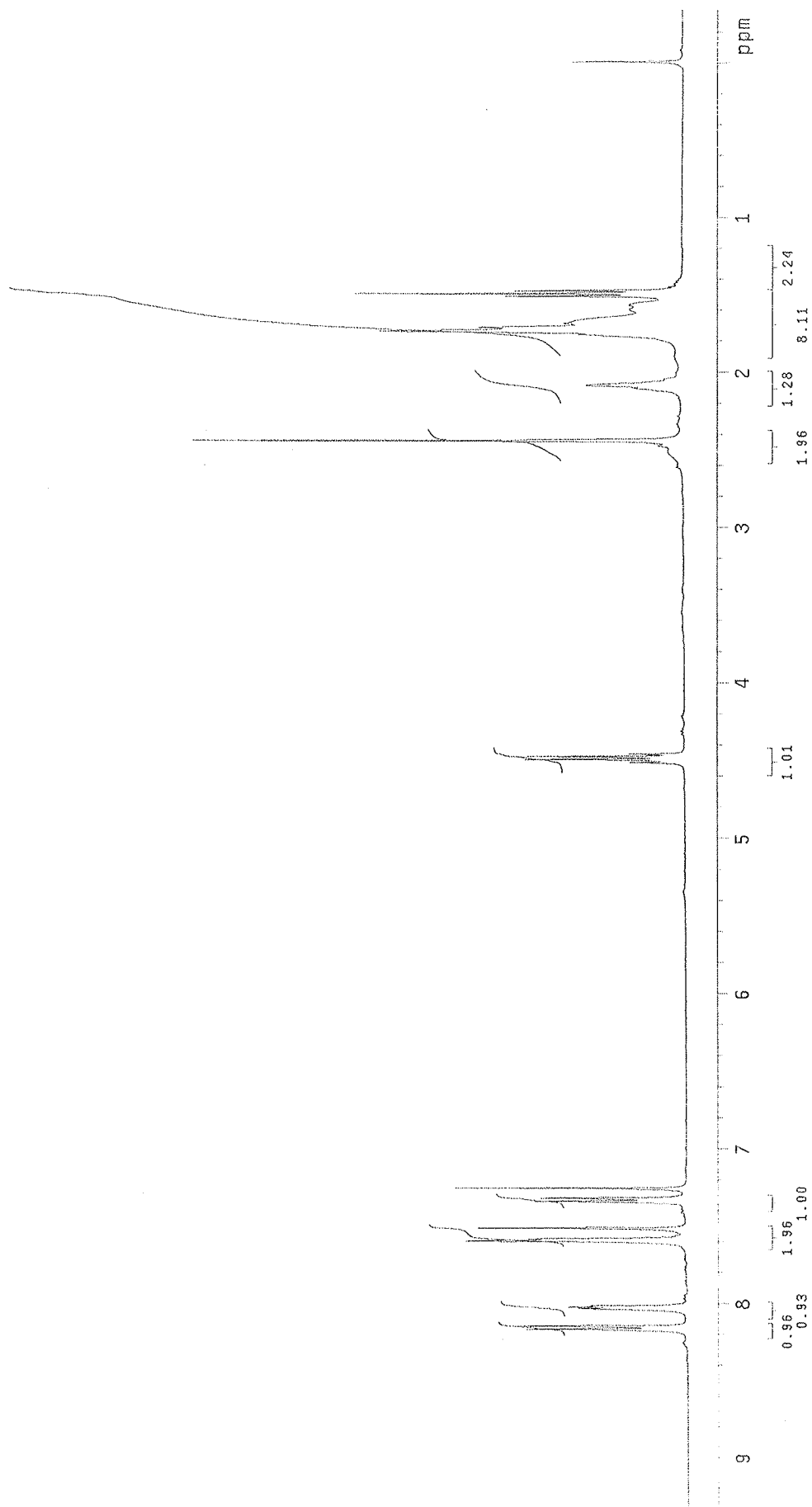
NMR-400MHZ in CDCl₃
AR.No:ME0511/12S
Date: 05th Sep.2011



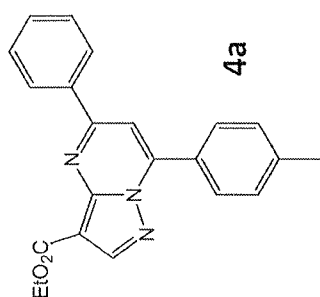
Copies of ¹H NMR



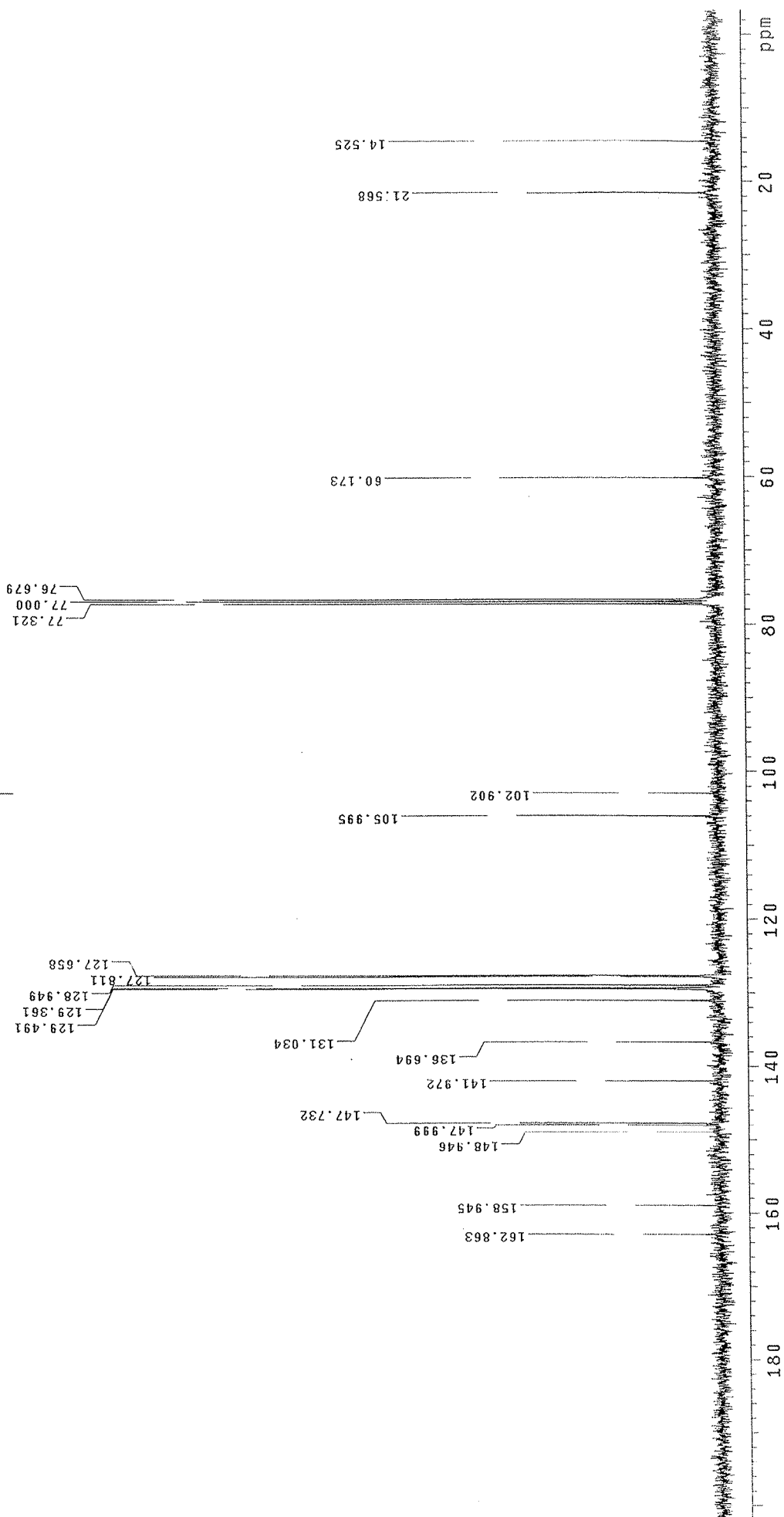
NMR-400MHZ in CDCl₃
AR.No:ME0911/126
Analyt: Haribabu
Date: 05th Sep.2011



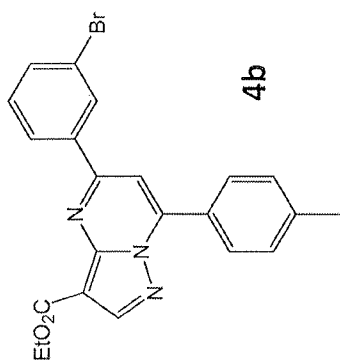
Copies of ^{13}C NMR



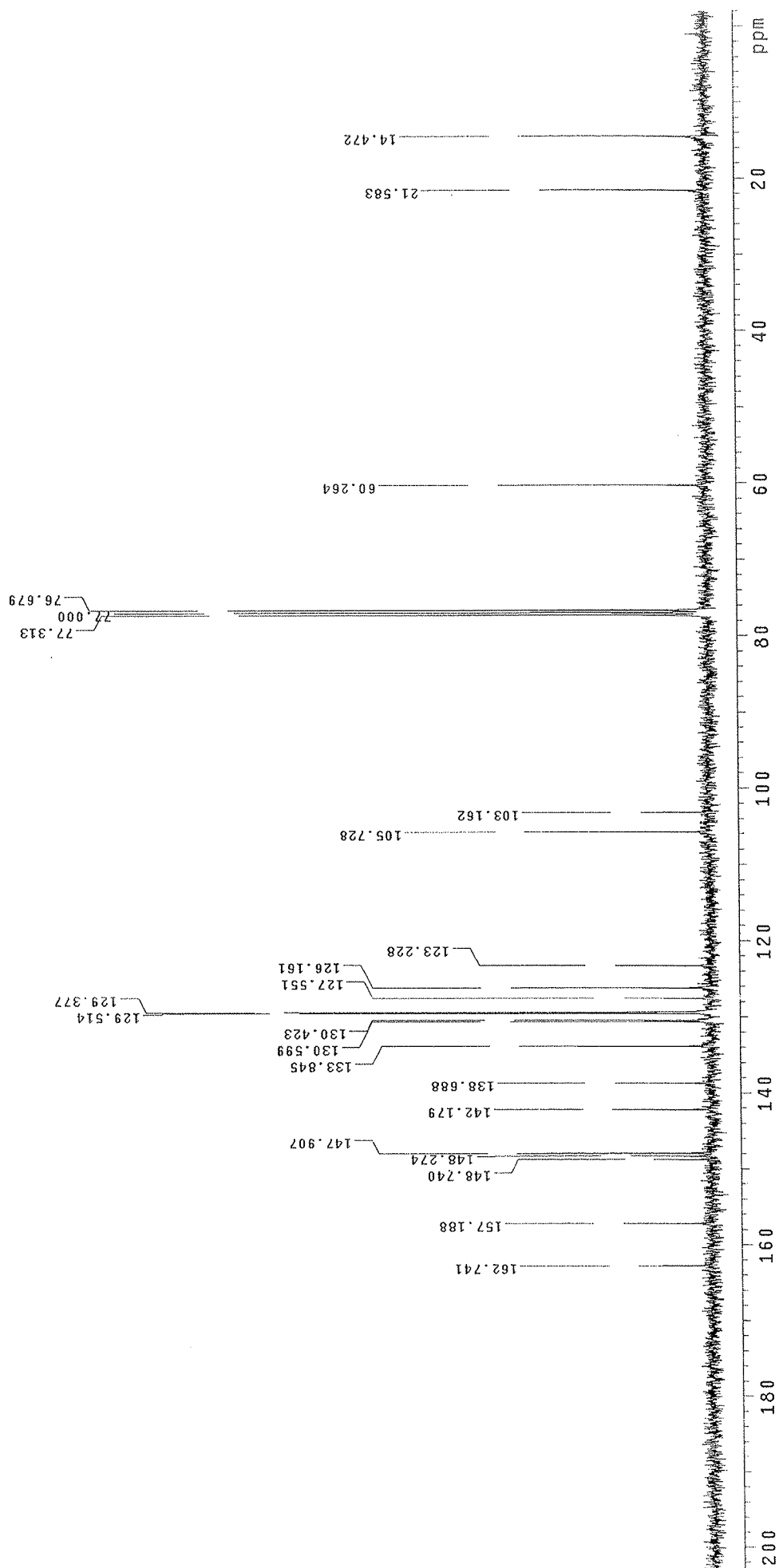
NMR-400 in CDCl_3
AR.NO:ME0411/3039
Date: 30 th April, 2011



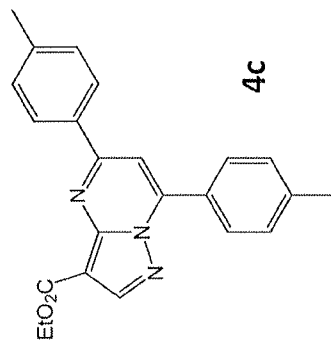
Copies of ^{13}C NMR



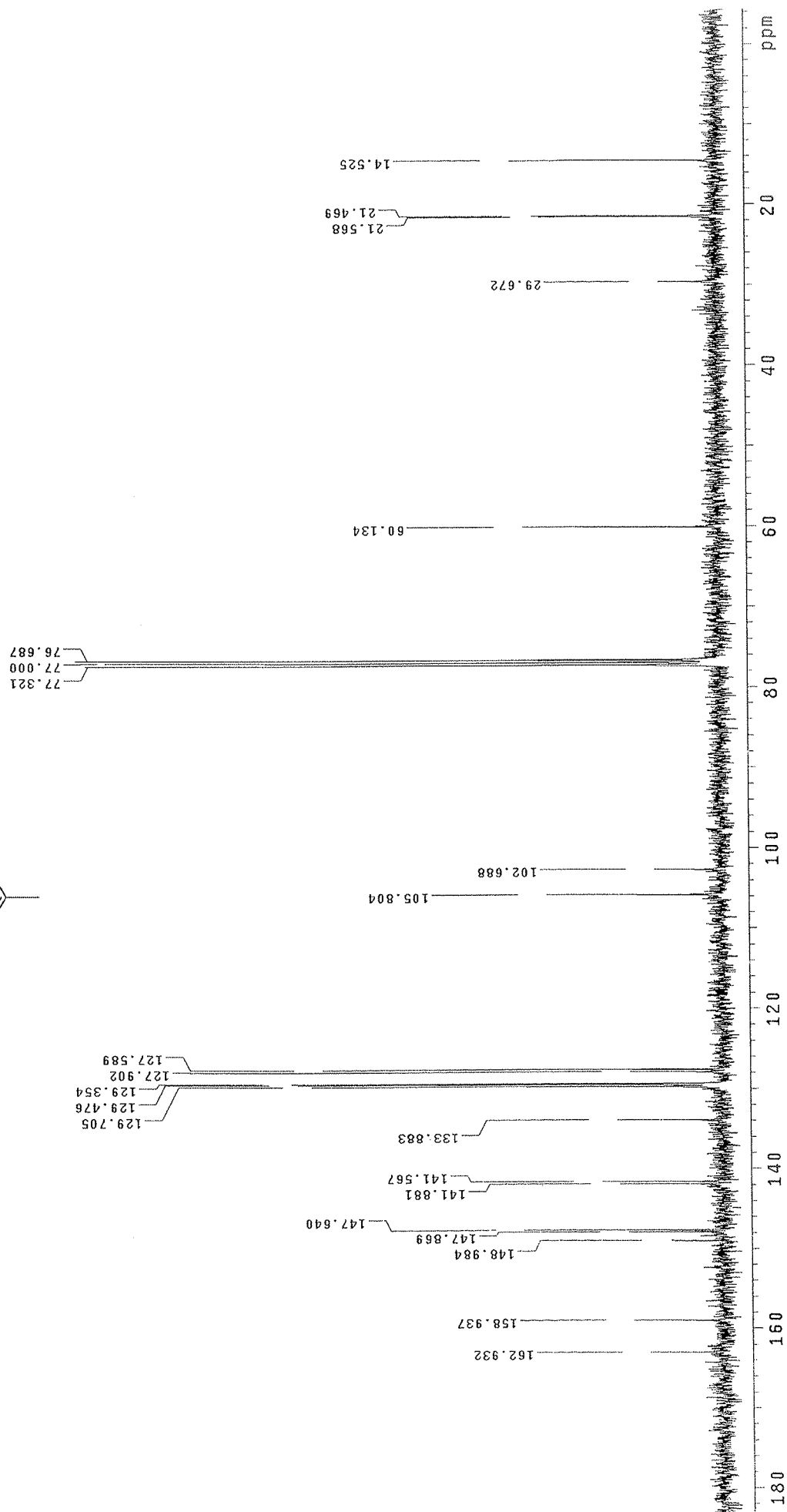
NMR-400 in CDCl_3
AR.No:ME0411/3040
Date: 30th April, 2011



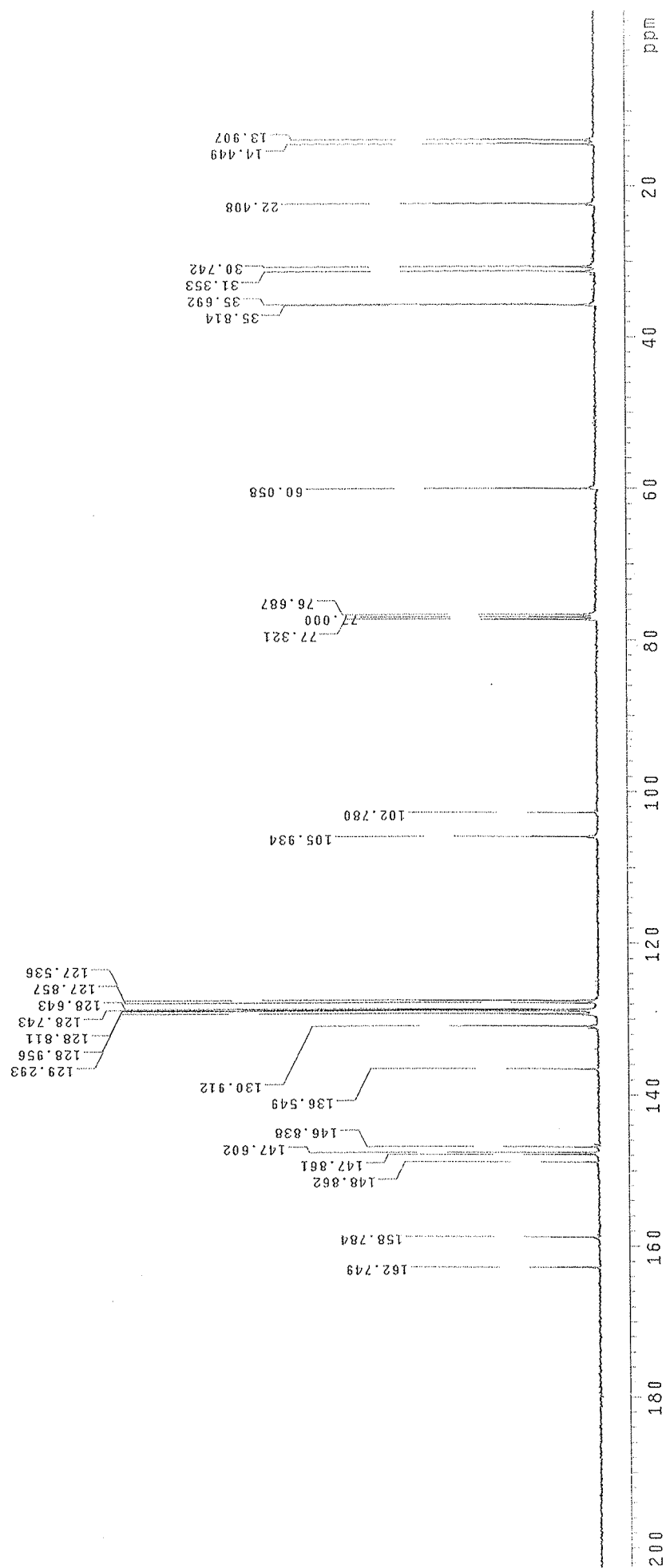
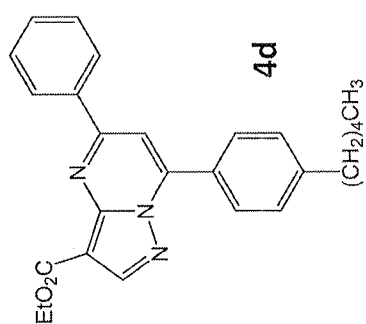
Copies of ^{13}C NMR



NMR-400 in CDCl_3
AK:ME0411/3041
Date: 30 th April, 2011

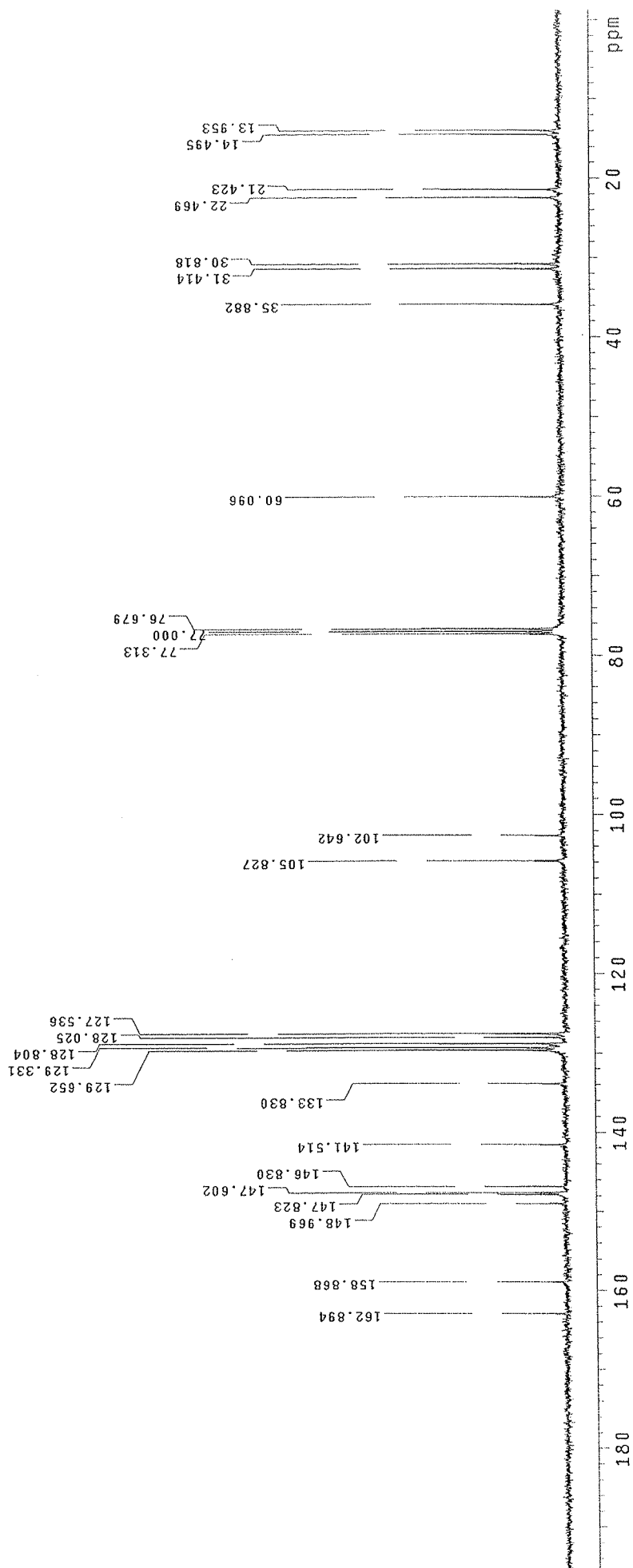
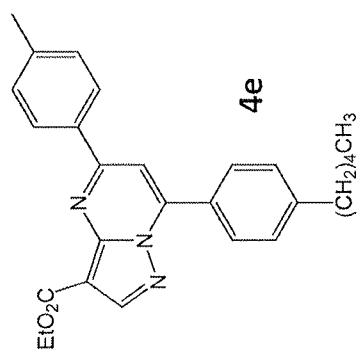


Copies of ^{13}C NMR



NMR-400 in CDCl₃
AR.No:ME0411/154
Date: 1st April 2011

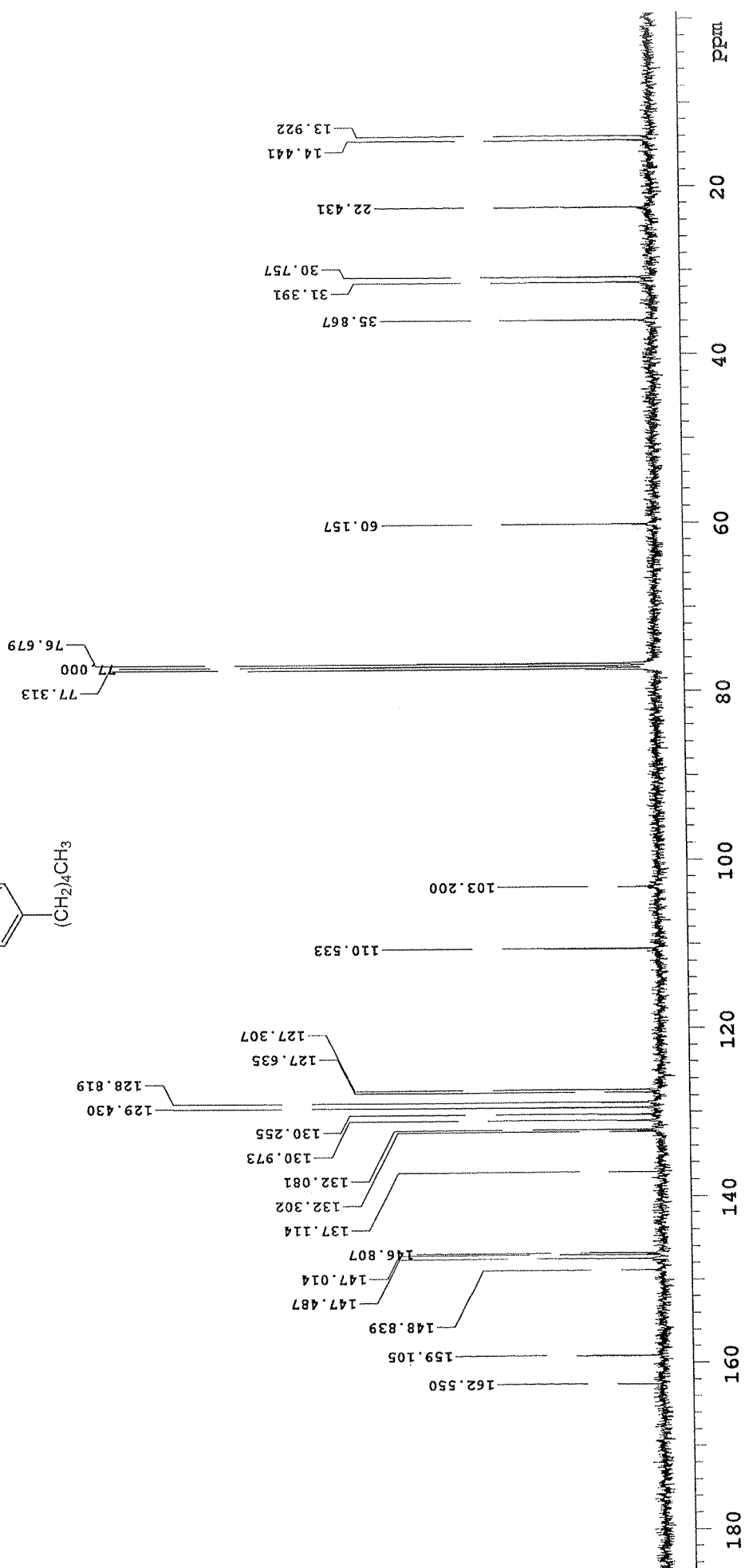
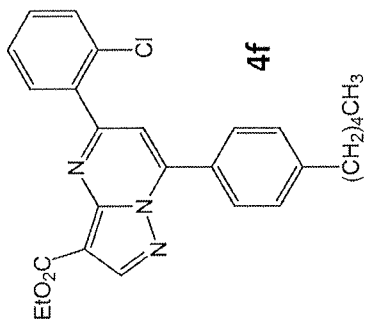
Copies of ¹³C NMR



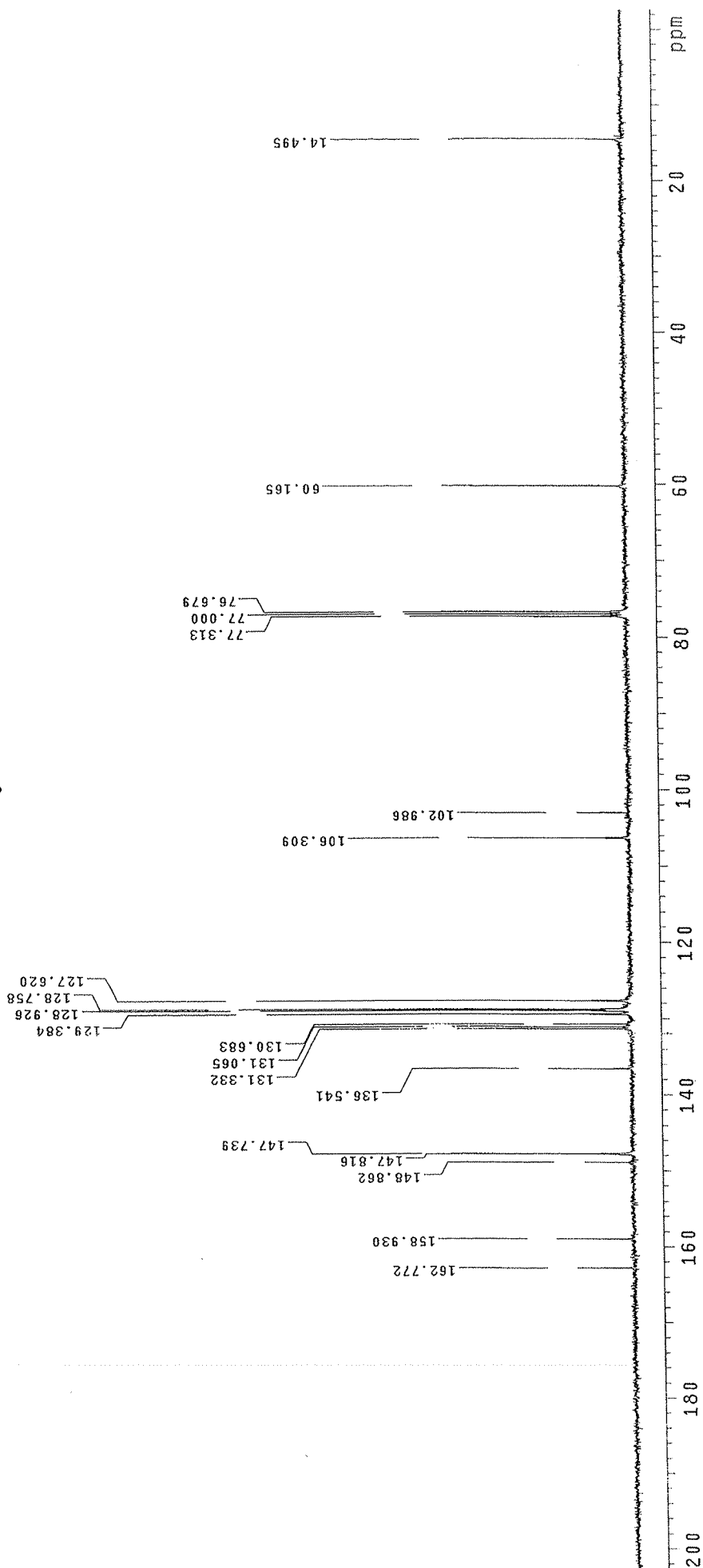
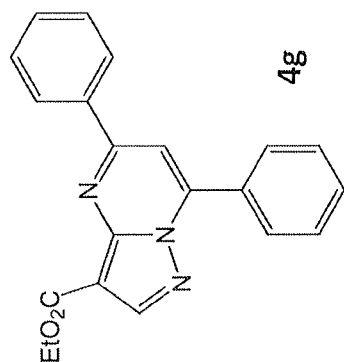
NMR-400 in CDCl₃
AR.No:ME0711/177
Date:02nd July.2011

Copies of ^{13}C NMR

NMR-400MHZ in CDCl₃
AR.No:NE0711/789
Date:09th July.2011

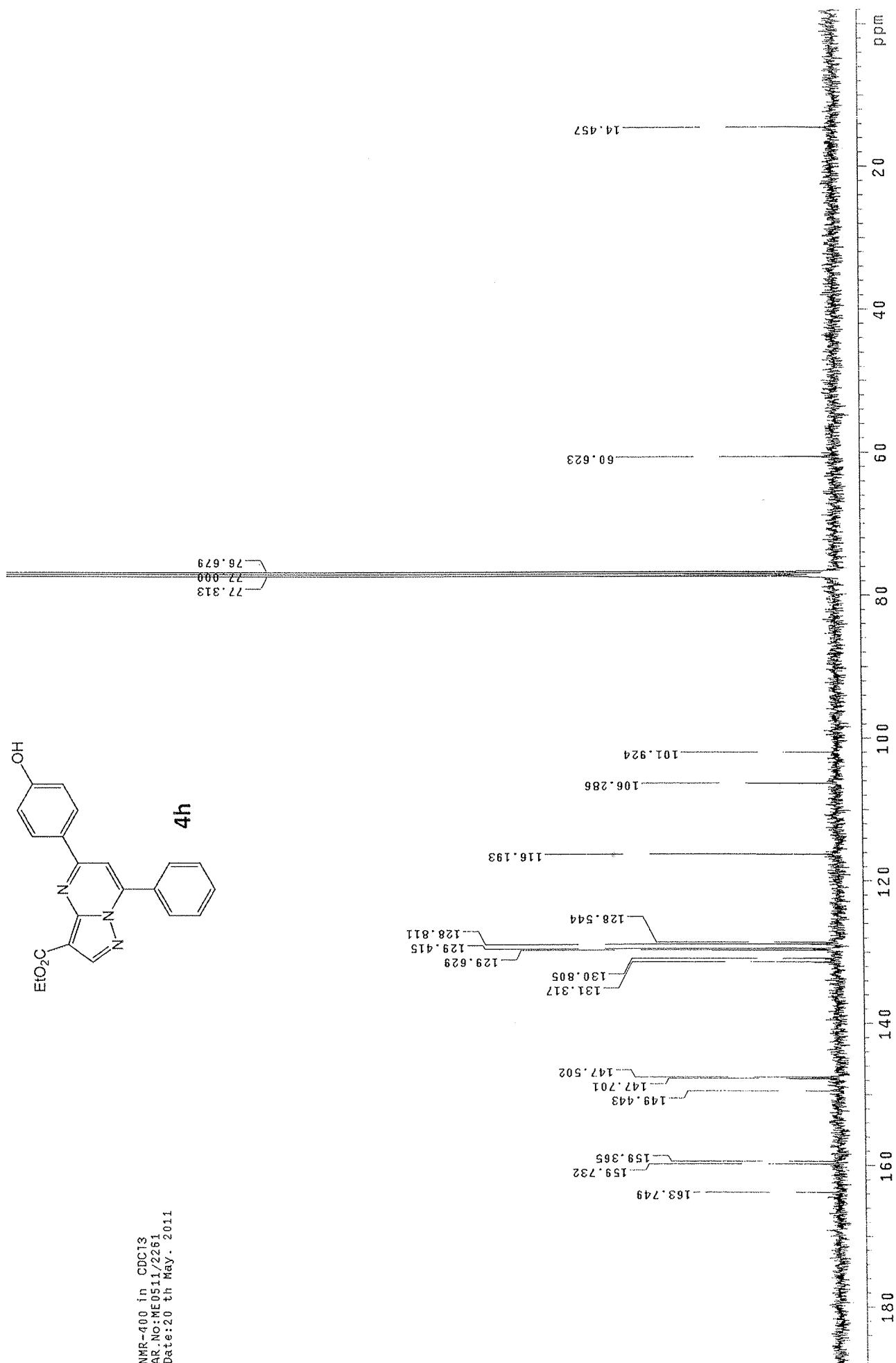


Copies of ¹³C NMR



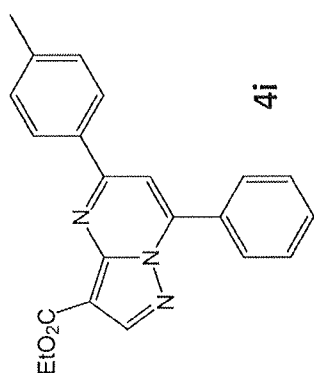
NMR-400 in CDCl₃
AR.NO:ME0311/2067
Date: 19th March, 2011

Copies of ^{13}C NMR

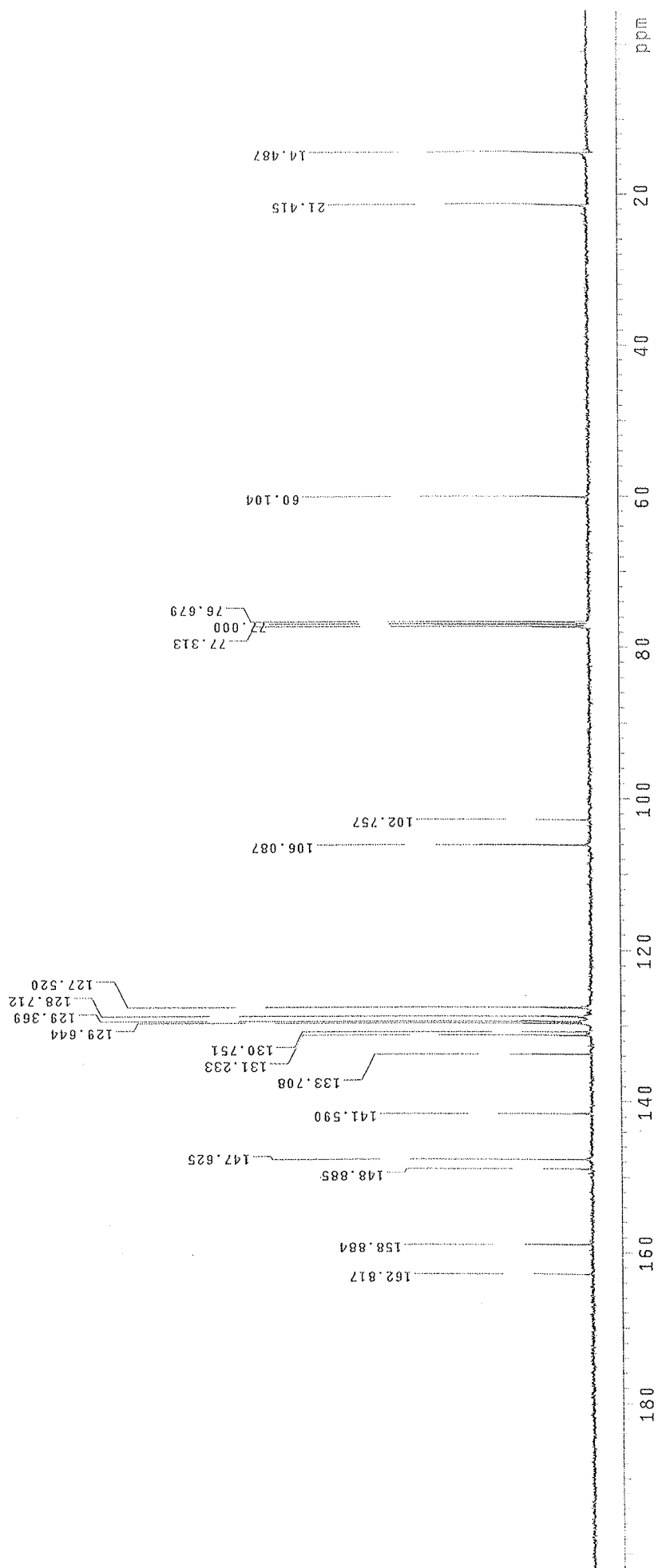


NMR-400 in CDCl₃
AR.No:ME0511/2261
Date:20 th May. 2011

Copies of ^{13}C NMR

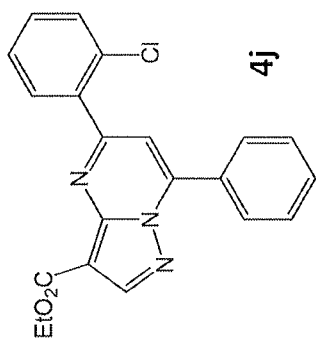


4i



NMR-400 in CDCl₃
AR.No:ME0411/162
Date: 1st April 2011

Copies of ¹³C NMR



NMR-40J in CDCl₃
AR.No: NE0511/2262
Date: 20 th May. 2011

77.313
77.000
76.679

4j

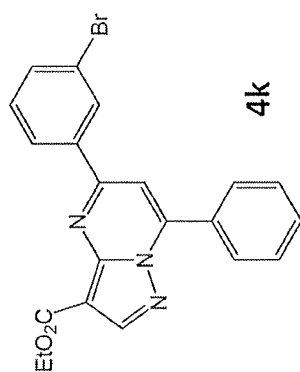
162.573
159.220
148.847
147.609
146.693
137.084
132.363
132.157
131.454
131.088
130.461
130.331
129.537
128.804
127.398

110.884
103.421

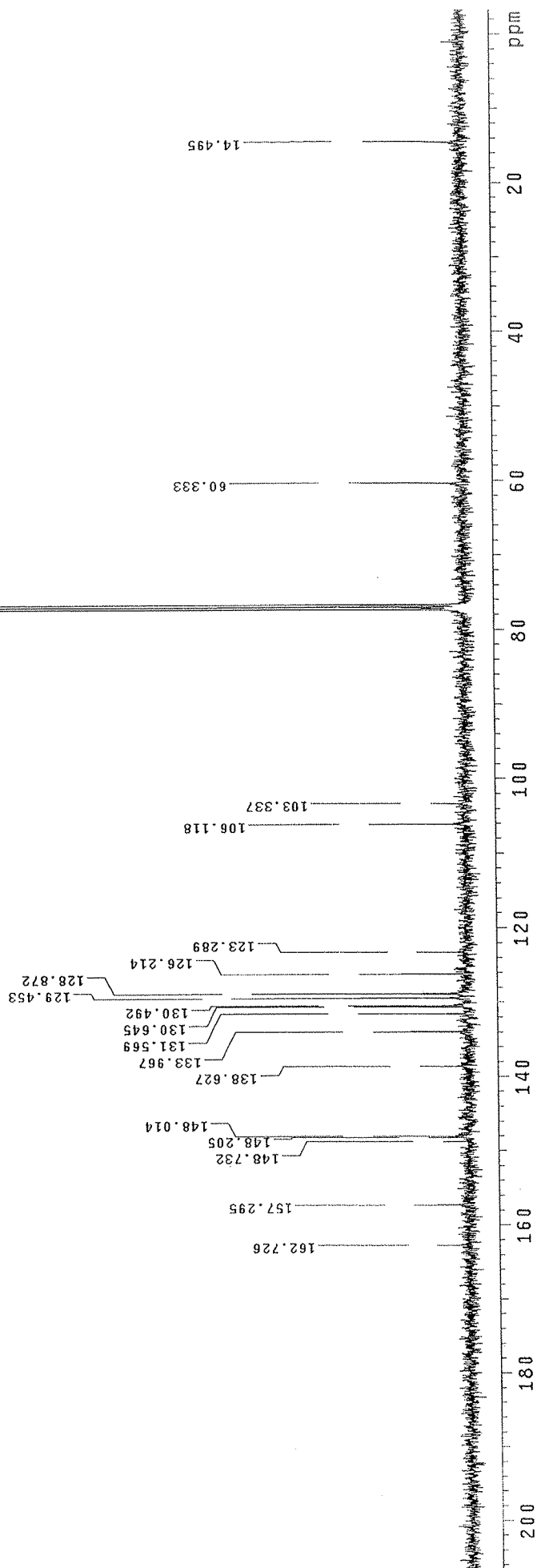
60.257
14.495

ppm
160
140
120
100
80
60
40
20

Copies of ¹³C NMR

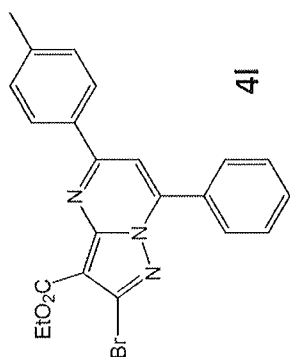


77.321
77.000
76.687

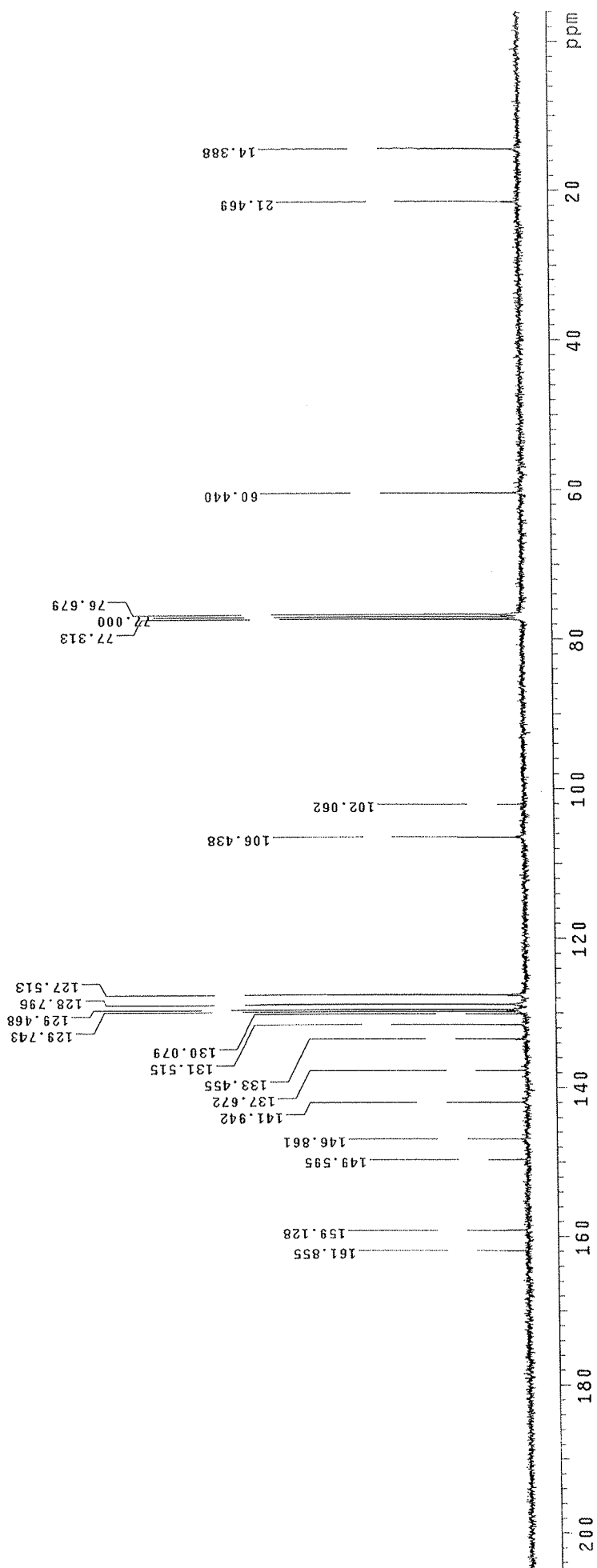


NMR-400 in CDCl₃
AR.No:ME0411/3042
Date: 30 th April. 2011

Copies of ¹³C NMR

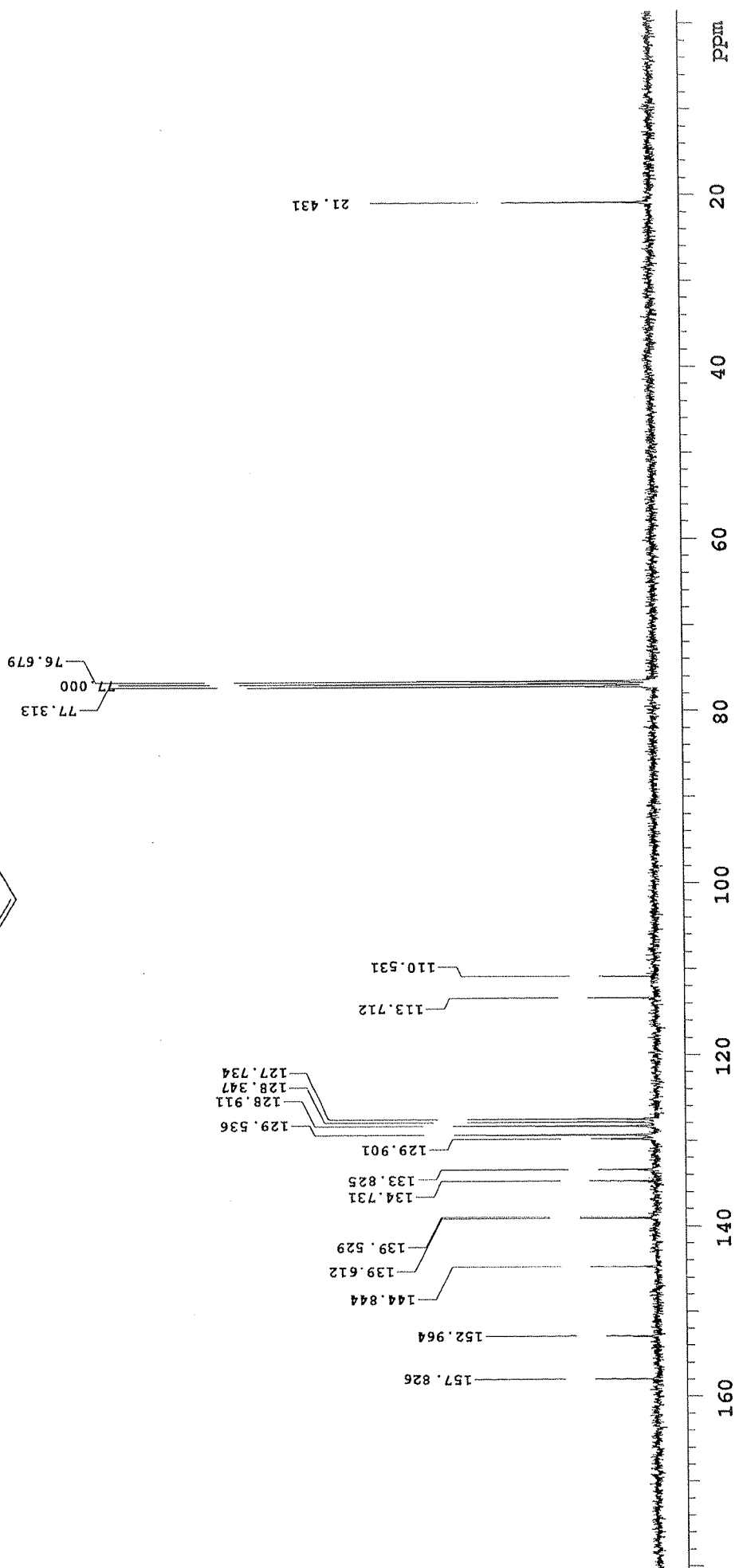
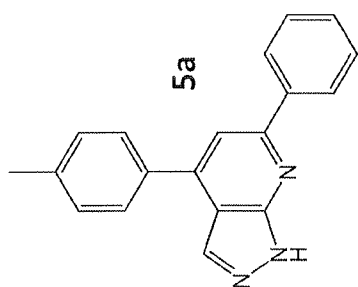


4I



NMR-400 in CDCl₃
AR.No:ME0411/3043
Date: 30 th April. 2011

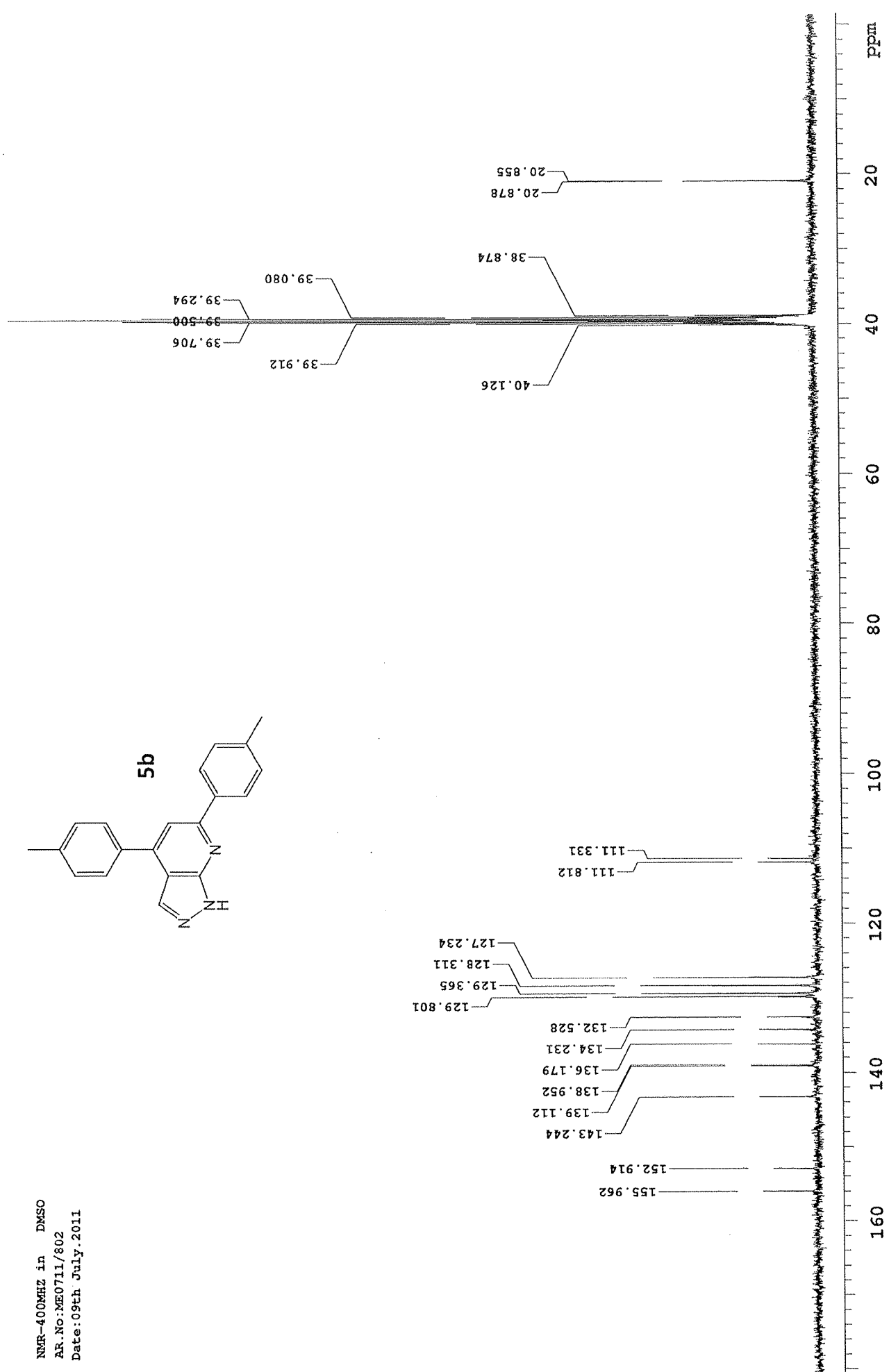
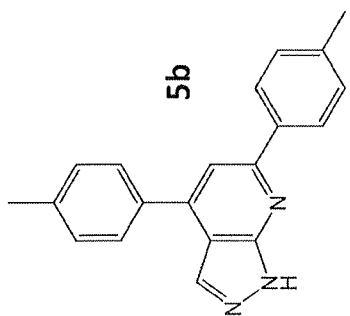
Copies of ^{13}C NMR



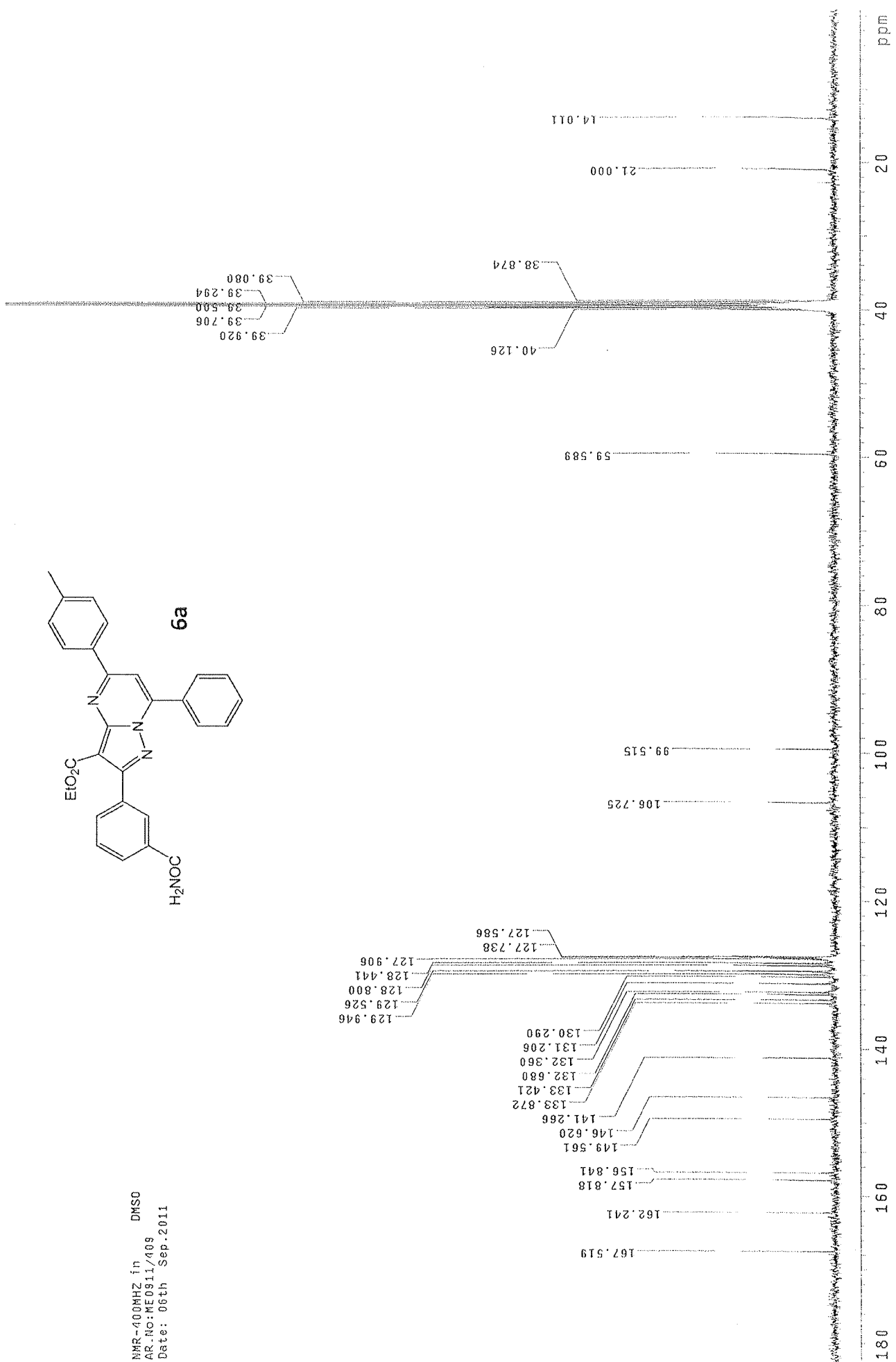
NMR-400 in CDCl₃
AR.No:ME0711/801
Date:09th July.2011

Copies of ¹³C NMR

NMR-400MHZ in DMSO
AR.No:ME0711/802
Date:09th July.2011

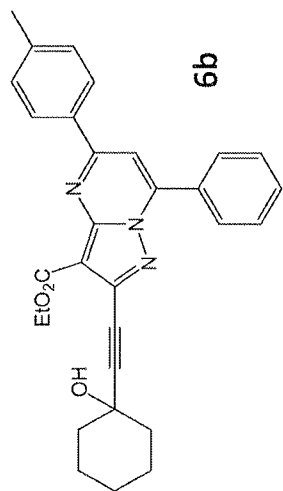


Copies of ^{13}C NMR



NMR-400MHZ in DMSO
AR-NO:KE0911/109
Date: 06th Sep.2011

Copies of ¹³C NMR



Elemental Composition Report

Single Mass Analysis

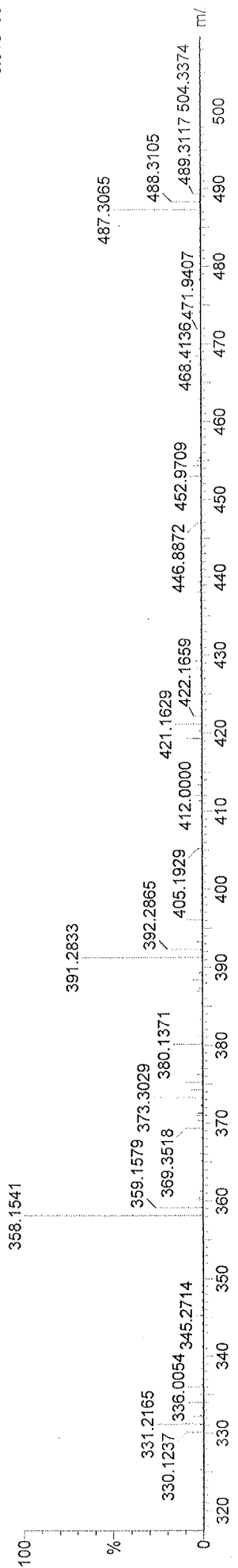
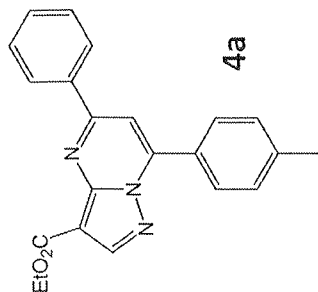
Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
 147 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:
 C: 0-35 H: 0-35 N: 0-6 O: 0-6
 CPPS1

Aurigene Discovery Technologies, Hyderabad

UT0911_20 24 (0.541) Cm (24:26-65:78x0.010)

1: TOF MS ES-
 5.61e+00



Minimum:
 Maximum:

0.0
 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
358.1541	358.1556	-1.5	-4.2	14.5	0.5	C22 H20 N3 O2

358.1541 358.1556 -1.5 -4.2 14.5 0.5 C22 H20 N3 O2

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

300 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

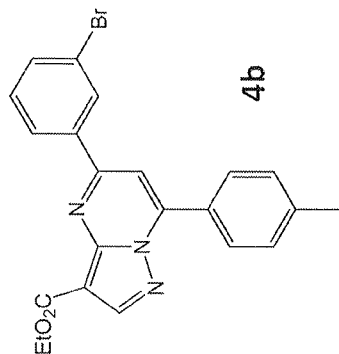
Elements Used:

C: 0-35 H: 0-35 N: 0-6 O: 0-6 Br: 0-1

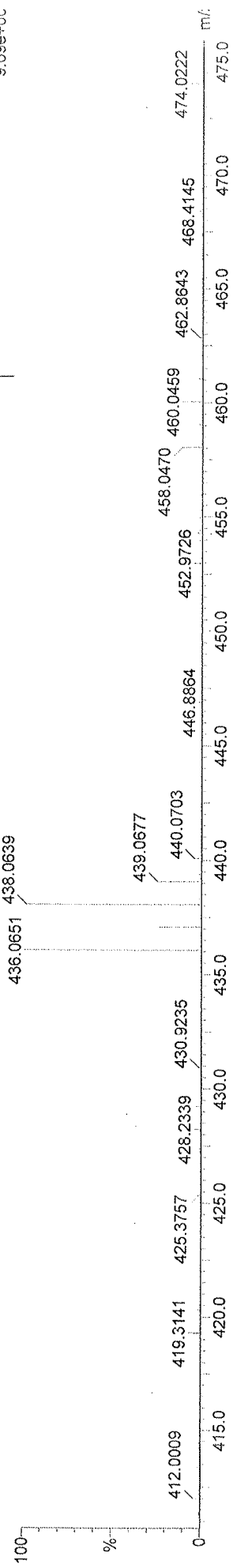
CPPS2

Aurigene Discovery Technologies, Hyderabad

UT0911_19 25 (0.579) Cm (25:28-66:76x0.010)



1: TOF MS ES-
9.69e+0C



Minimum: 0.0
 Maximum: 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
436.0651	436.0661	-1.0	-2.3	14.5	2.8	C22 H19 N3 O2 Br

Elemental Composition Report

Single Mass Analysis

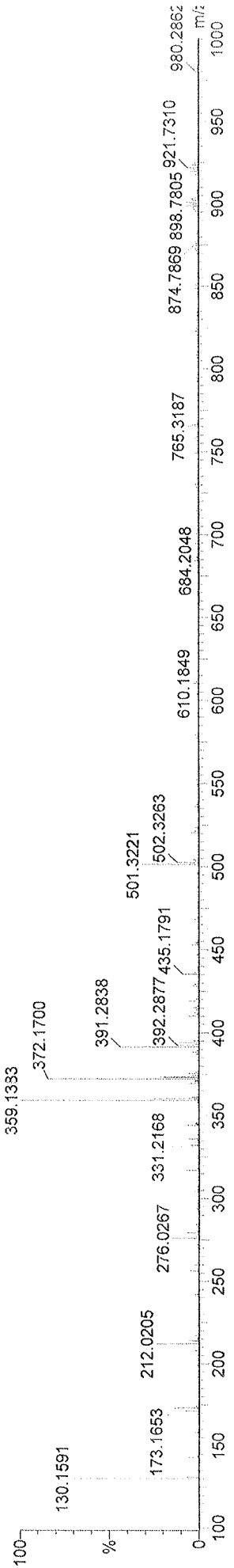
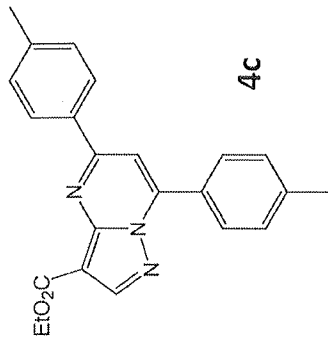
Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
 147 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:
 C: 0-35 H: 0-35 N: 0-6 O: 0-6
 CPPS3

Aurigene Discovery Technologies, Hyderabad

UT0911_18 26 (0.598) Cm (26:29-75:82x0.010)

1: TOF MS ES+
 1.24e+00



Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
372.1700	372.1712	-1.2	-3.2	14.5	4.5	C23 H22 N3 O2
				0.0		
				80.0		

Elemental Composition Report

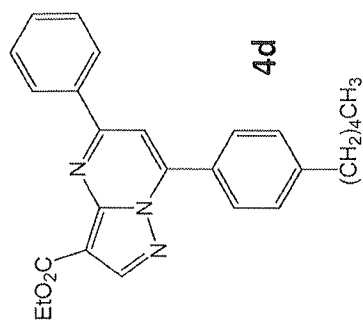
Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

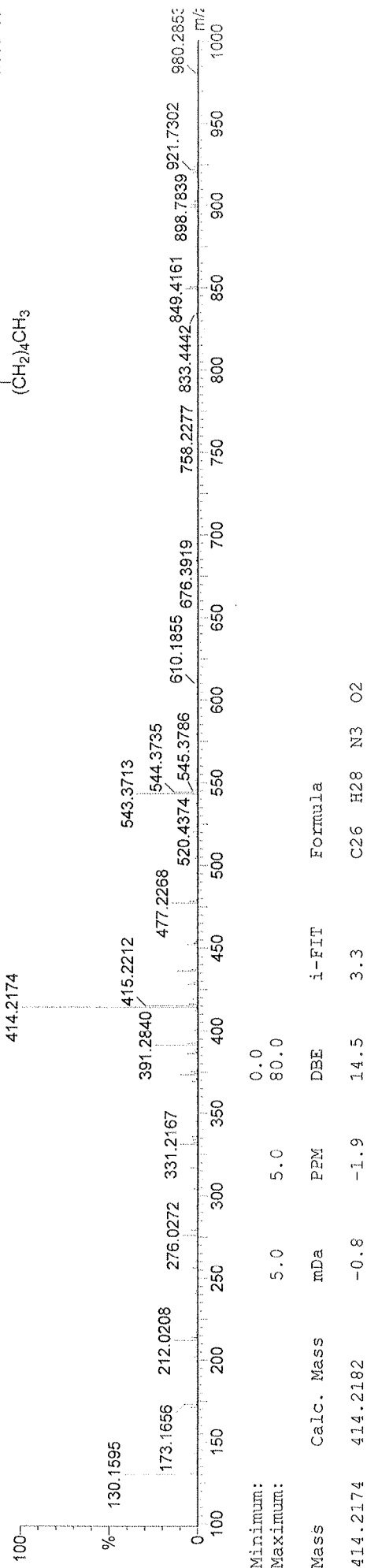
Monoisotopic Mass, Even Electron Ions
 147 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:
 C: 0-35 H: 0-35 N: 0-6 O: 0-6
 CPPS4

Aurigene Discovery Technologies, Hyderabad

UT0911_17 25 (0.581) Cm (25:27-72:75x0.010)



1: TOF MS ES+
 1.56e+00



Minimum:

Maximum:

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
414.2174	414.2182	-0.8	-1.9	14.5	3.3	C26 H28 N3 O2

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
 193 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:

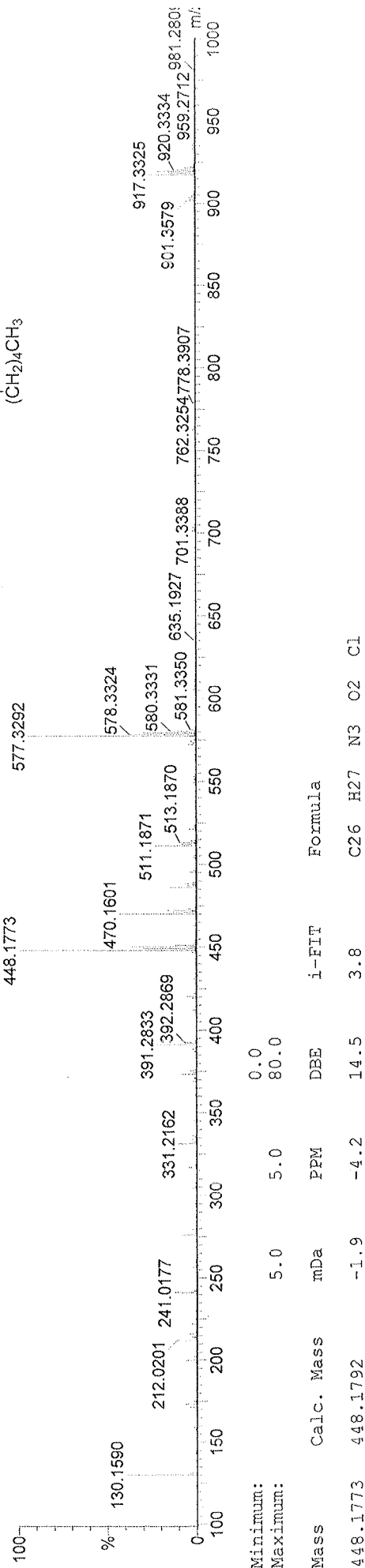
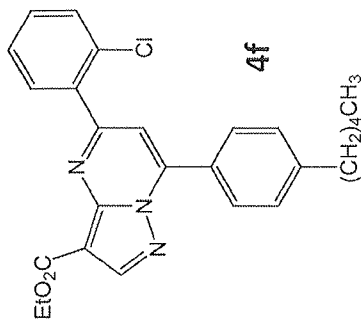
C: 0-30 H: 0-35 N: 0-4 O: 0-3 Cl: 0-3

CPFS-6

Aurigene Discovery Technologies, Hyderabad

UT0911_11 24 (0.541) Cm (24:28-74:82x0.010)

1. TOF MS ES-
 2.53e+00



Minimum:
 Maximum:

Mass	Calc. Mass	PPM	DBE	i-FIT	Formula
448.1773	448.1792	-1.9	14.5	3.8	C26 H27 N3 O2 Cl

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

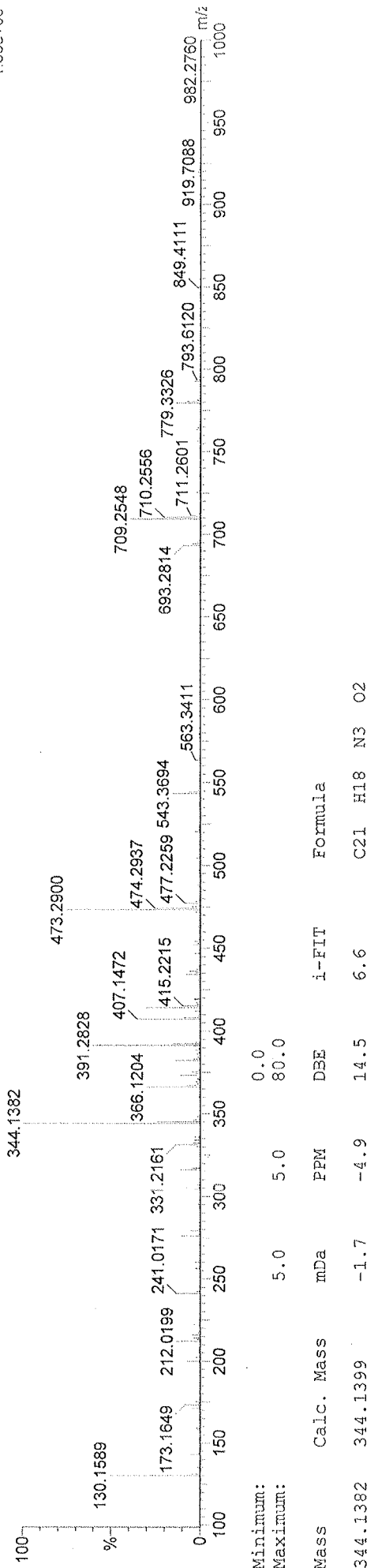
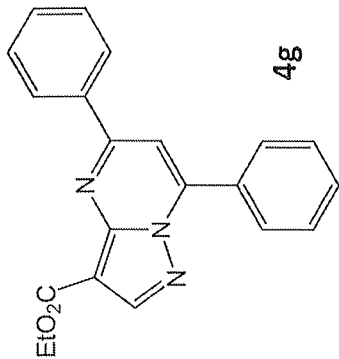
Monoisotopic Mass, Even Electron Ions
 38 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:

C: 0-24 H: 0-25 N: 0-5 O: 0-3
 CPPS-7

UT0911_10 21 (0.488) Cm (21:24-68:72x0.010)

Aurigene Discovery Technologies, Hyderabad

1: TOF MS ES+
 1.56e+00



Minimum: 0.0
 Maximum: 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
344.1382	344.1399	-1.7	-4.9	14.5	6.6	C21 H18 N3 O2

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

29 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

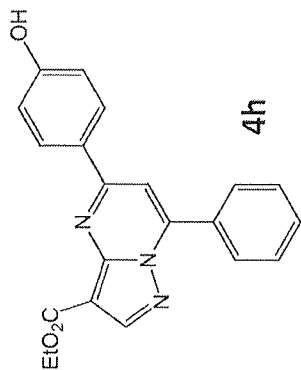
Elements Used:

C: 0-24 H: 0-25 N: 0-5 O: 0-3

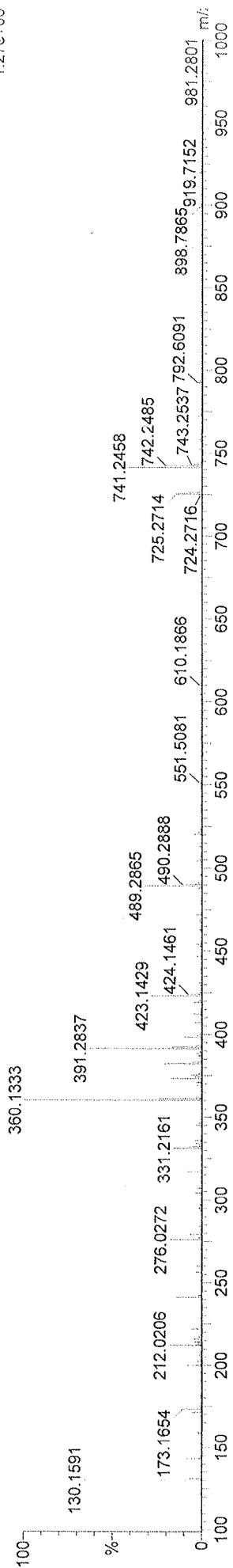
CPPS-8

Aurigene Discovery Technologies, Hyderabad

UT0911_09 19 (0.434) Cm (19:22-54:60x0.010)



1: TOF MS ES+
1.27e+00



Minimum: 0.0
Maximum: 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
360.1333	360.1348	-1.5	-4.2	14.5	1.8	C21 H18 N3 O3

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
 32 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:

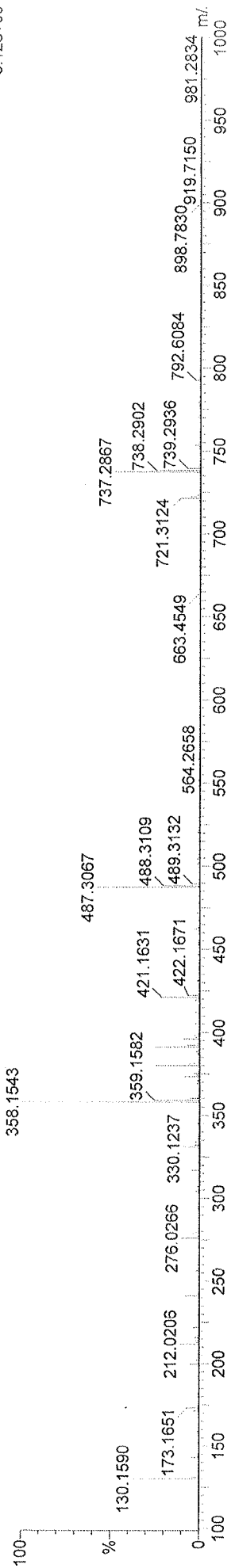
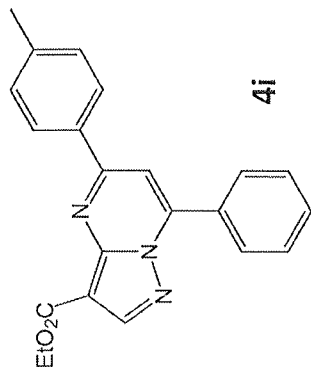
C: 0-24 H: 0-25 N: 0-5 O: 0-3

CPPS-9

Aurigene Discovery Technologies, Hyderabad

UT0911_08 17 (0.399) Cm (17:22-64:71x0.010)

1: TOF MS ES-
 3.12e+0C



Mass	Calc. Mass	mDa	PPM	DBE	Formula
358.1543	358.1556	-1.3	-3.6	14.5	C22 H20 N3 O2
				0.0	
				80.0	

Elemental Composition Report

Single Mass Analysis

Tolerance = 100.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

185 formula(e) evaluated with 26 results within limits (up to 4 best isotopic matches for each mass)

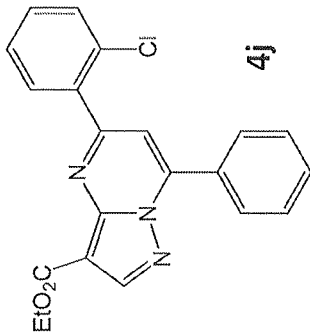
Elements Used:

C: 0-35 H: 0-35 N: 0-5 O: 0-4 Cl: 0-1

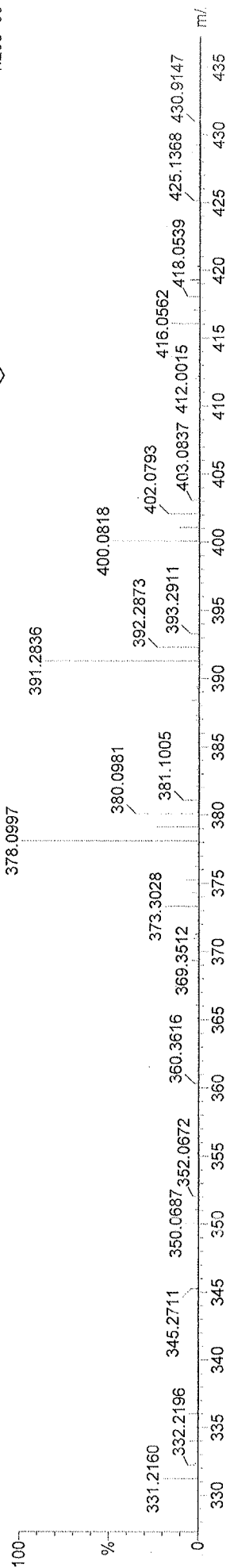
CPSS-10

UT0911_07 20 (0.450) Cm (20:24-45:55x0.010)

Aurigene Discovery Technologies, Hyderabad



1: TOF MS ES:
1.26e+06



Minimum:
Maximum:

5.0 100.0 0.0 80.0

Mass Calc. Mass mDa DBE Formula

378.0997 378.1009 -1.2 -3.2 14.5 2.1 C21 H17 N3 O2 Cl

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

185 formula(e) evaluated with 3 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

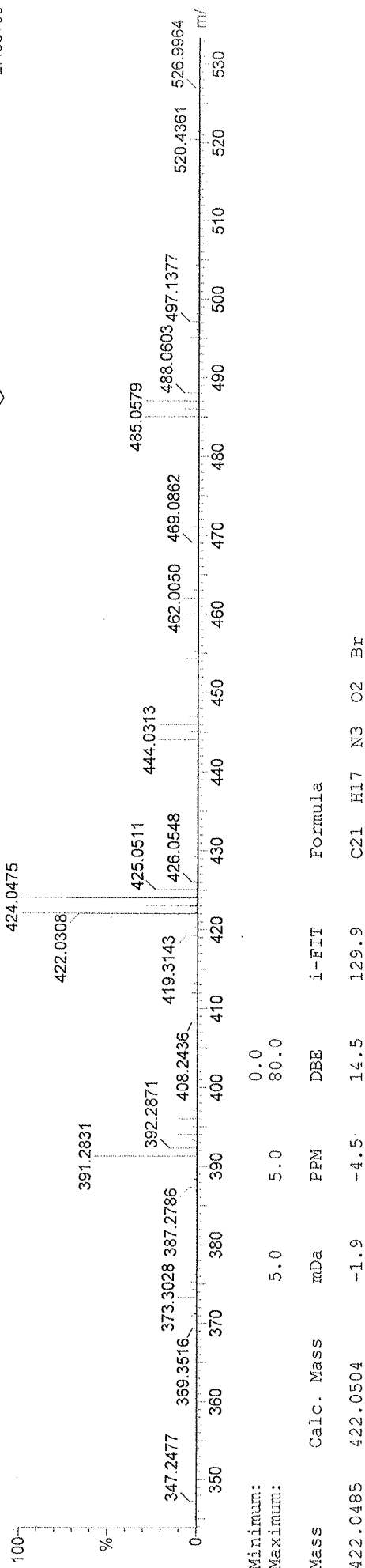
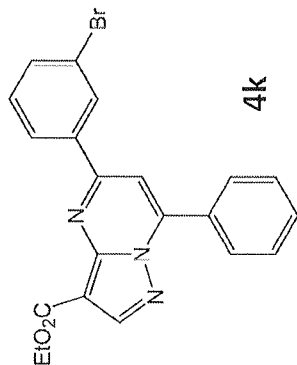
C: 0-35 H: 0-35 N: 0-5 O: 0-4 Br: 0-1

CPPS11

Aurigene Discovery Technologies, Hyderabad

UT0911_01 13 (0.308) Cm (13:19-57:68x0.010)

1: TOF MS ES-
2.49e+0C



Minimum:

Maximum: 5.0 5.0 0.0

Mass Calc. Mass mDa PPM DBE Formula

422.0485 422.0504 -1.9 -4.5 14.5 129.9 C21 H17 N3 O2 Br

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

53 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

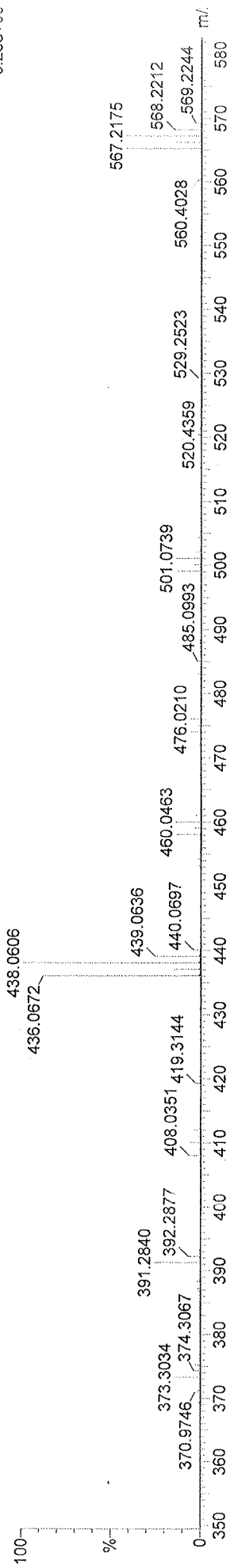
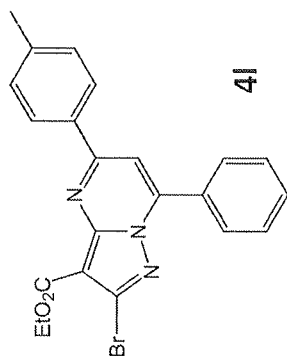
C: 0-25 H: 0-30 N: 0-3 O: 0-4 Br: 0-1

CPP21

Aurigenes Discovery Technologies, Hyderabad

UT0911_04_18 (0.415) Cm (18:23-56:60x0.010)

1: TOF MS ES-
3.25e+0C



Minimum:
Maximum:

5.0 5.0 0.0
mDa DBE

Mass Calc. Mass PPM i-FIT Formula

436.0672 436.0661 1.1 2.5 897.9 C22 H19 N3 O2 Br

Elemental Composition Report

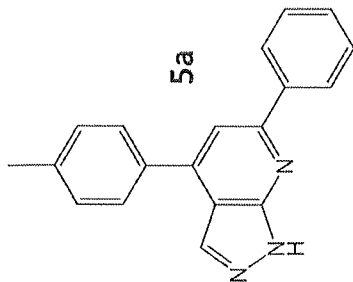
Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

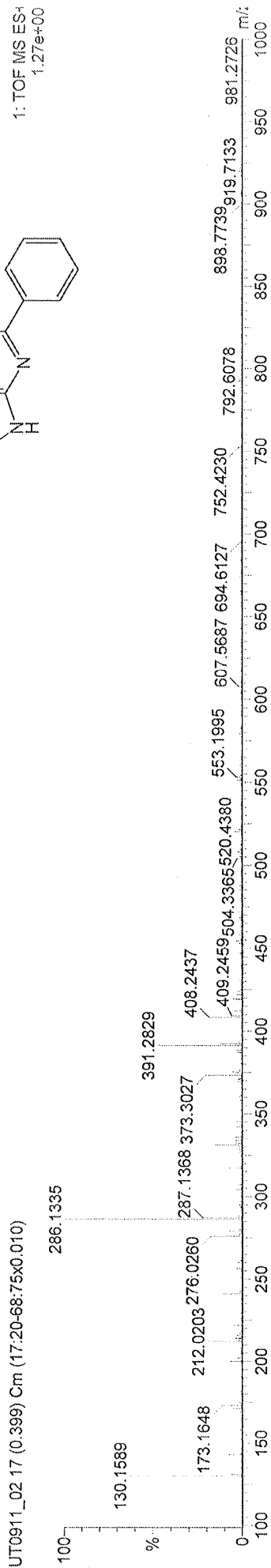
Monoisotopic Mass, Even Electron Ions
 52 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:

C: 0-24 H: 0-25 N: 0-5 O: 0-3
 CPPS31

Aurigene Discovery Technologies, Hyderabad



1: TOF MS ES⁺
 1.27e+00



Minimum:
 Maximum:

0.0
 80.0

Mass	Calc. Mass	PPM	DBE	i-FIT	Formula
286.1335	286.1344	-0.9	13.5	1.4	C19 H16 N3

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

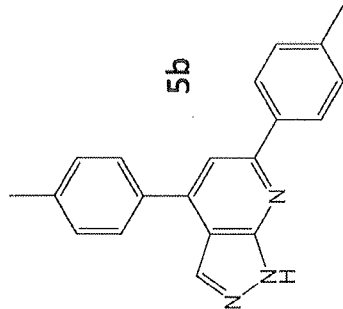
51 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

Elements Used:

C: 0-24 H: 0-25 N: 0-5 O: 0-3

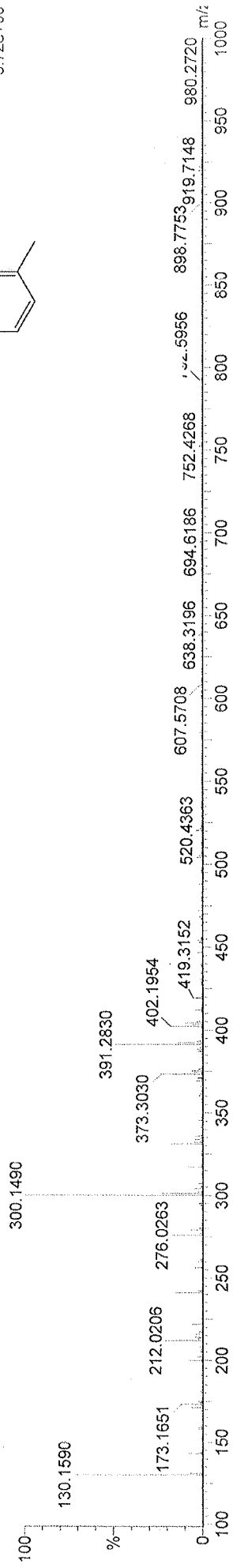
CPSS32

Aurigene Discovery Technologies, Hyderabad



UT0911_03 19 (0.433) Cm (19:20)

1: TOF MS ES+
5.72e+00



Minimum:
Maximum:

0.0
80.0

5.0 5.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
300.1490	300.1501	-1.1	-3.7	13.5	1.0	C20 H18 N3

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

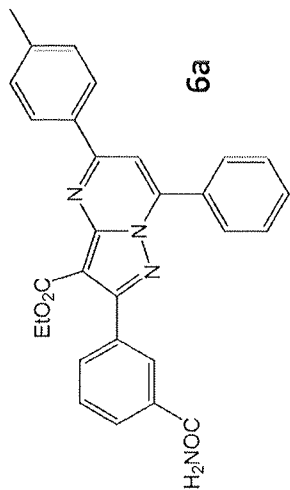
Monoisotopic Mass, Even Electron Ions
 77 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)
 Elements Used:

C: 0-35 H: 0-35 N: 0-5 O: 0-4

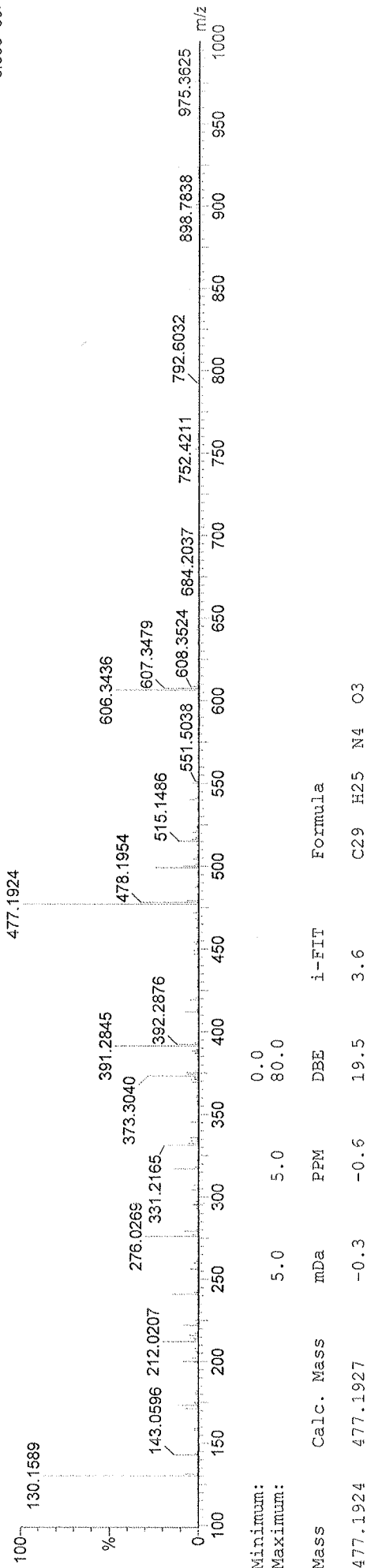
CPPS-Suzuki

Aurigene Discovery Technologies, Hyderabad

UT0911_05 20 (0.451) Cm (20:22-66:76x0.010)



1: TOF MS ES+
 8.55e+00:



Minimum:
 Maximum:

Mass 477.1924

Calc. Mass 477.1927

PPM -0.6

DBE 19.5

i-FIT 3.6

Formula C29 H25 N4 O3

Elemental Composition Report

Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = 0.0, max = 80.0
 Element prediction: Off
 Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

71 formula(e) evaluated with 1 results within limits (up to 4 best isotopic matches for each mass)

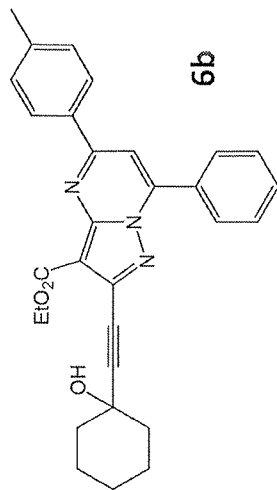
Elements Used:

C: 0-35 H: 0-35 N: 0-5 O: 0-4

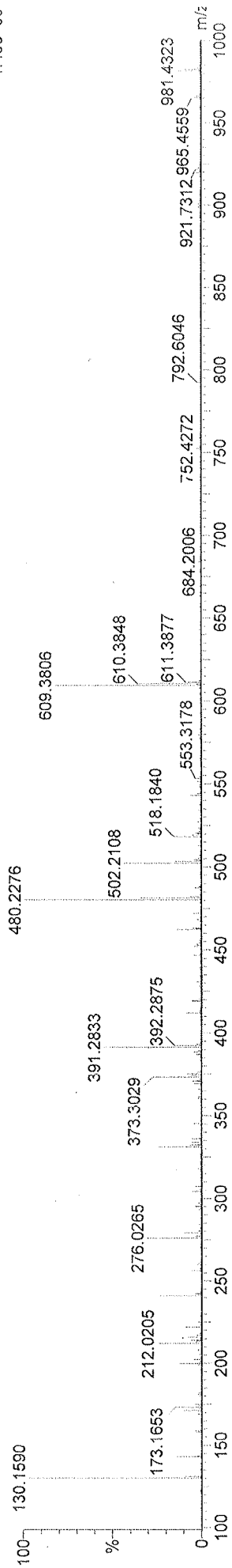
CPPS-SOG

Aurigene Discovery Technologies, Hyderabad

UT0911_06 21 (0.490) Cm (21:26-48:56x0.010)



1: TOF MS ES+
1.45e+00



Minimum: 0.0

Maximum: 80.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
480.2276	480.2287	-1.1	-2.3	17.5	2.7	C30 H30 N3 O3