

# Mass Spectrum of compound 5a

**Cairo University  
Micro Analytical Center**

**DI Analysis  
Shimadzu Qp-2010 Plus**

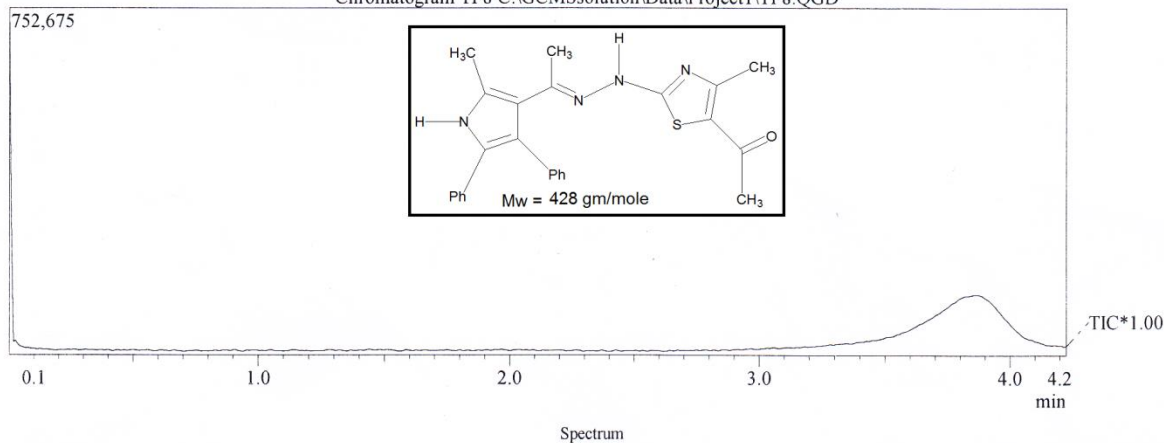


Sample Information  
Analyzed by : A.GABR  
Analyzed : 07/12/2013 06:32:13 م  
Sample Name : TP8  
Sample ID :  
Customer Name : صبحى جمعه - علوم القاهره  
Data File : C:\GCMSsolution\Data\Project1\TP8.QGD  
Org Data File : C:\GCMSsolution\Data\Project1\TP8.QGD  
Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Org Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Report File :  
Tuning File : C:\GCMSsolution\System\Tune1\\_default1.qgt  
\$EndIf\$Modified by : A.GABR  
Modified : 07/12/2013 06:36:35 م

Method  
Analytical Line 1  
IonSourceTemp : 250.00 °C  
[MS Table]  
--Group 1 - Event 1--  
Start Time : 0.00min  
End Time : 10.00min  
ACQ Mode : Scan  
Event Time : 0.50sec  
Scan Speed : 1000  
Start m/z : 50.00  
End m/z : 500.00  
  
Electron Voltage : 70 eV  
Ionization Mode : EI

C:\GCMSsolution\Data\Project1\TP8.QGD

Chromatogram TP8 C:\GCMSsolution\Data\Project1\TP8.QGD

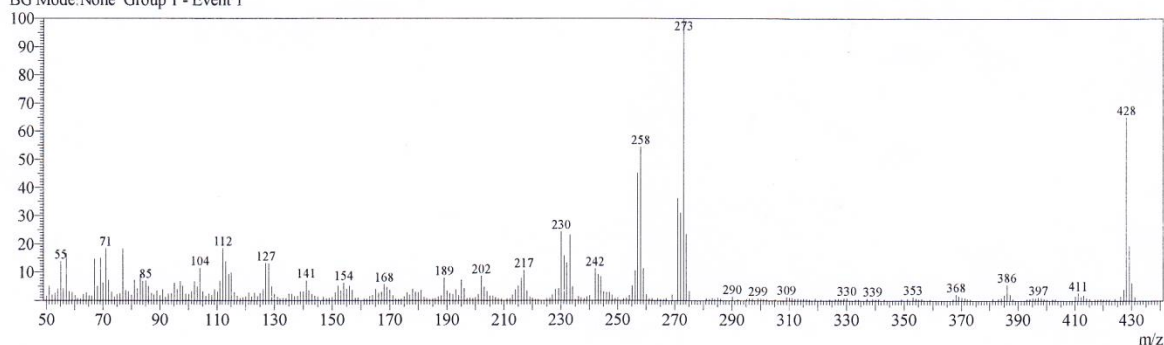


Line#:1 R.Time:3.8(Scan#:462)

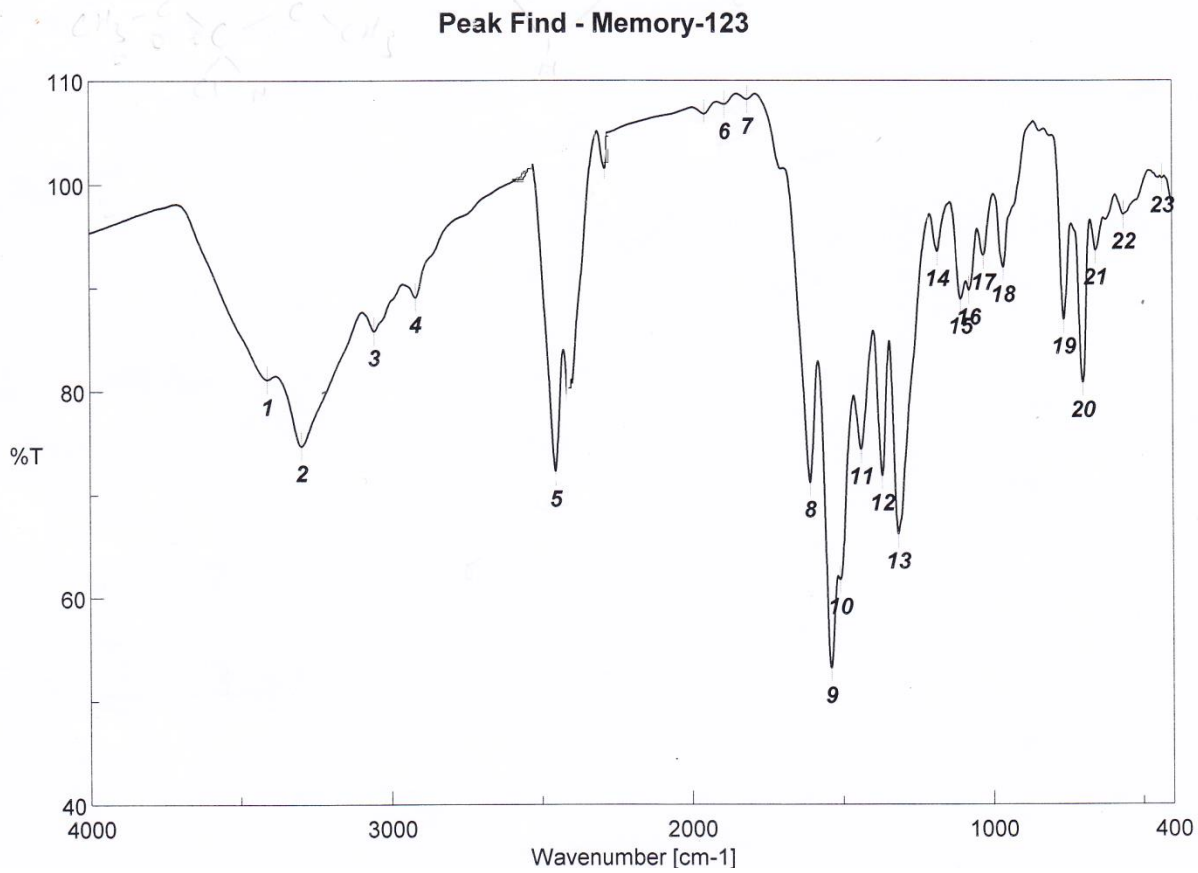
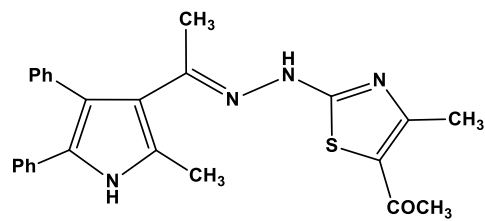
MassPeaks:306

RawMode:Single 3.8(462) BasePeak:273(9930)

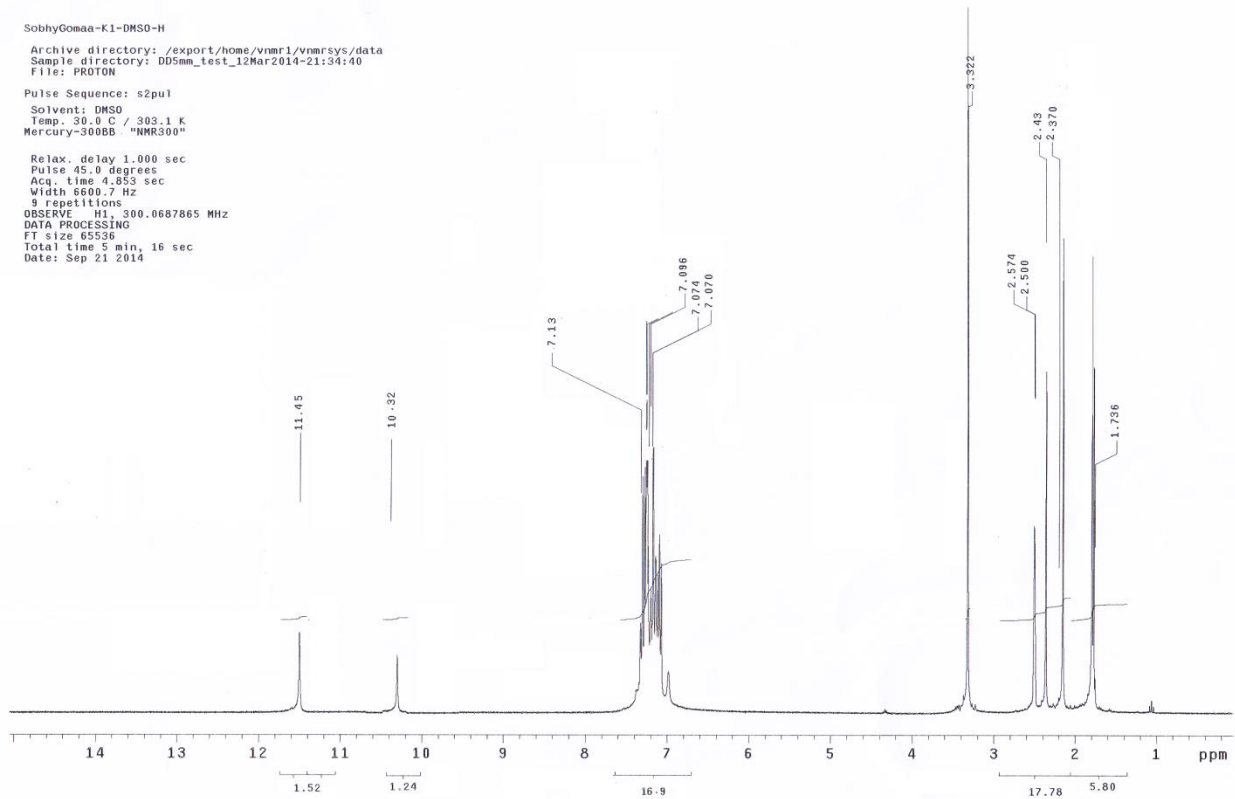
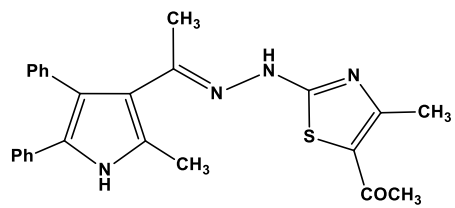
BG Mode:None Group 1 - Event 1



## IR Spectrum of compound **5a**



# <sup>1</sup>H NMR Spectrum of compound 5a



# Mass Spectrum of compound 9a

**Cairo University  
Micro Analytical Center**

M.w = 502 gm/mole

**DI Analysis  
Shimadzu Qp-2010 Plus**

Sample Information  
Analyzed by : A.GABR  
Analyzed : 07/12/2013 05:26:23 م  
Sample Name : TP2 (24a)  
Sample ID :  
Customer Name : صبحى جمعه - علوم القاهره  
Data File : C:\GCMSsolution\Data\Project1\TP2.QGD  
Org Data File : C:\GCMSsolution\Data\Project1\TP2.QGD  
Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Org Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Report File :  
Tuning File : C:\GCMSsolution\System\Tune1\\_default1.qgt  
\$EndIf\$Modified by : A.GABR  
Modified : 07/12/2013 05:30:31 م

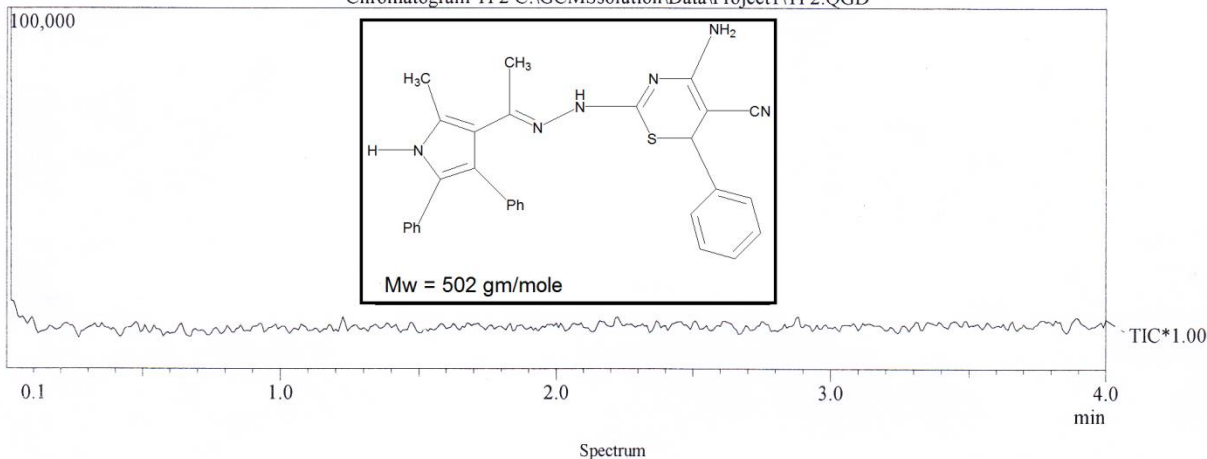
Method  
==== Analytical Line 1 ====  
IonSourceTemp : 250.00 °C  
[MS Table]  
--Group 1 - Event 1--  
Start Time : 0.00min  
End Time : 10.00min  
ACQ Mode : Scan  
Event Time : 0.50sec  
Scan Speed : 1250  
Start m/z : 50.00  
End m/z : 600.00

Electron Voltage : 70 eV  
Ionization Mode : EI

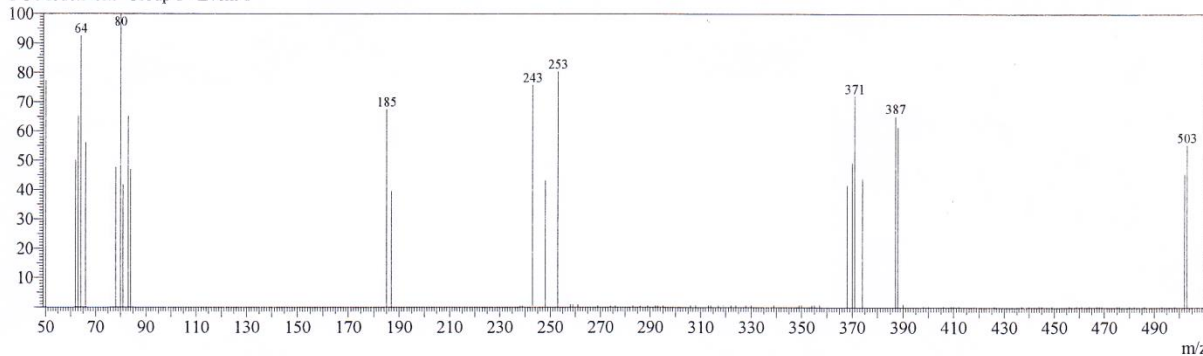


C:\GCMSsolution\Data\Project1\TP2.QGD

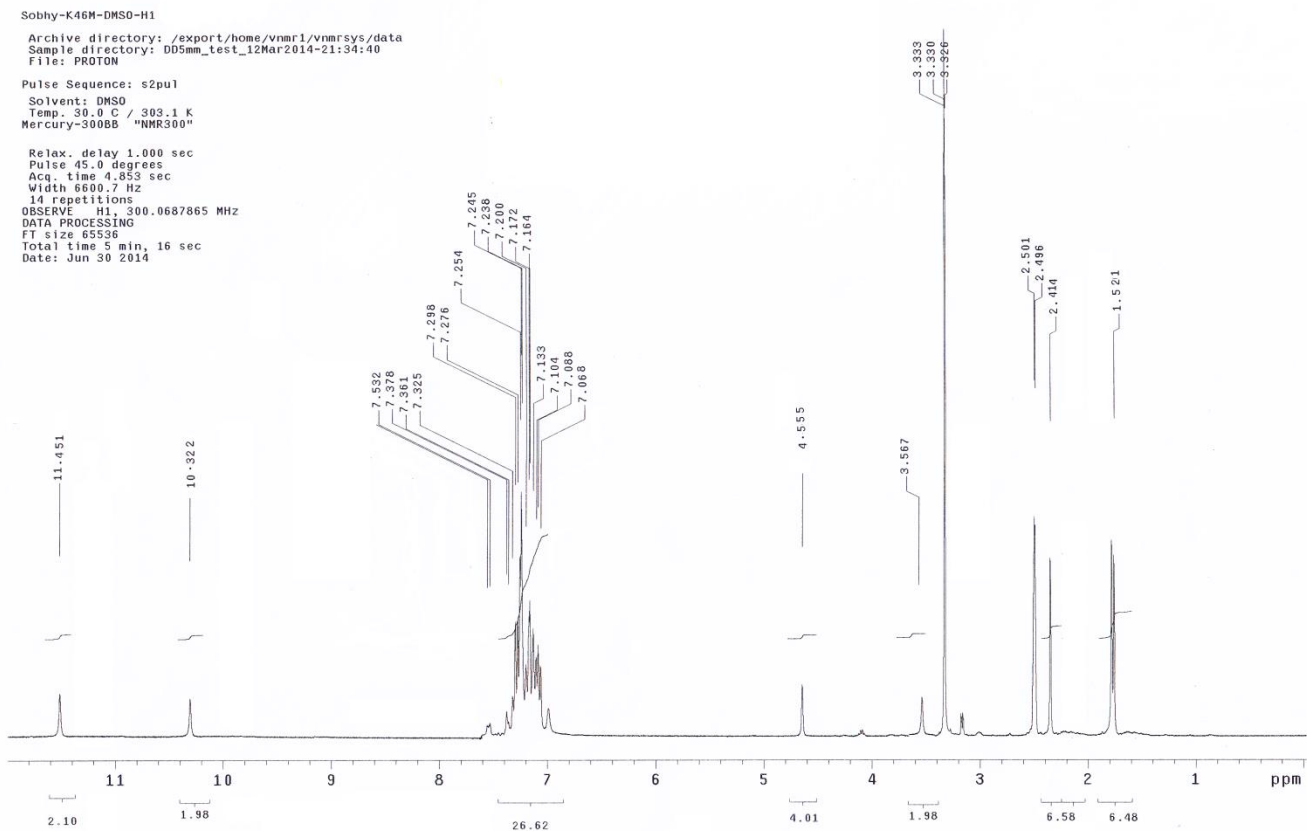
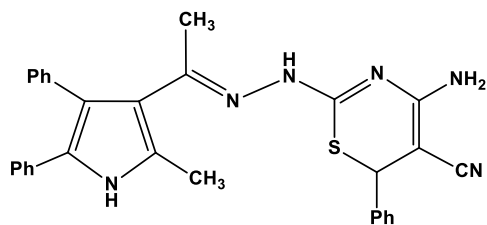
Chromatogram TP2 C:\GCMSsolution\Data\Project1\TP2.QGD



Line#: 1 R.Time: 1.3(Scan#: 151)  
MassPeaks: 142  
RawMode: Single 1.3(151) BasePeak: 80(132)  
BG Mode: None Group 1 - Event 1



# <sup>1</sup>H NMR spectrum of compound 9a



# Mass Spectrum of compound 12

**Cairo University  
Micro Analytical Center**

**DI Analysis  
Shimadzu Qp-2010 Plus**

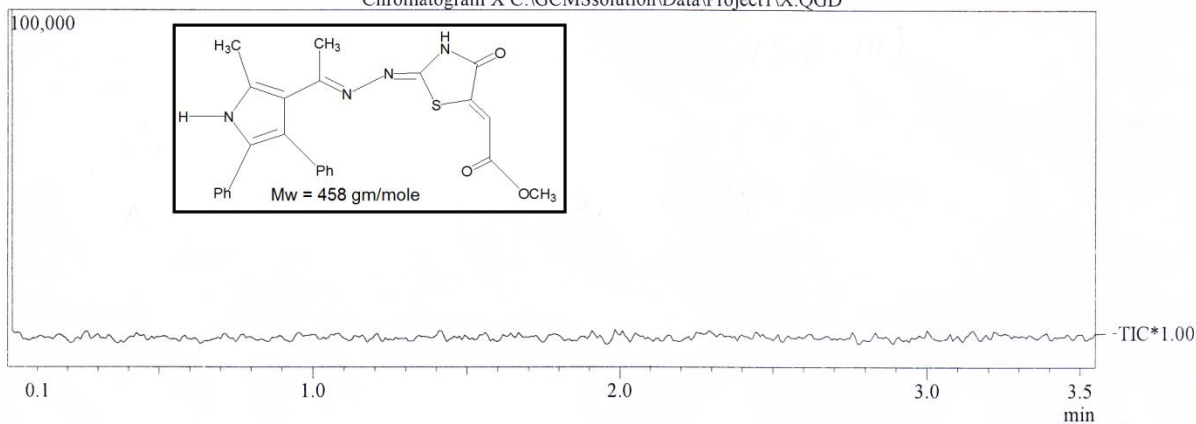
Sample Information  
Analyzed by : A.GABR  
Analyzed : 01/12/2013 11:25:14 ص  
Sample Name : X  
Sample ID :  
Customer Name : صبحي جمعه - علوم القاهره  
Data File : C:\GCMSsolution\Data\Project1\X.QGD  
Org Data File : C:\GCMSsolution\Data\Project1\X.QGD  
Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Org Method File : C:\GCMSsolution\Data\Project1\A.GABR.qgm  
Report File :  
Tuning File : C:\GCMSsolution\System\Tune1\default1.qgt  
\$Endl\$Modified by : A.GABR  
Modified : 01/12/2013 11:28:47 ص

Method  
Analytical Line 1  
IonSourceTemp : 250.00 °C  
[MS Table]  
--Group 1 - Event 1--  
Start Time : 0.00min  
End Time : 10.00min  
ACQ Mode : Scan  
Event Time : 0.50sec  
Scan Speed : 1000  
Start m/z : 50.00  
End m/z : 500.00  
Electron Voltage : 70 eV  
Ionization Mode : EI



C:\GCMSsolution\Data\Project1\X.QGD

Chromatogram X C:\GCMSsolution\Data\Project1\X.QGD



Spectrum

Line#: 1 RTime: 1.1 (Scan#: 133)  
MassPeaks: 117  
RawMode: Single 1.1 (133) BasePeak: 135 (97)  
BG Mode: None Group 1 - Event 1

