

Supporting Information

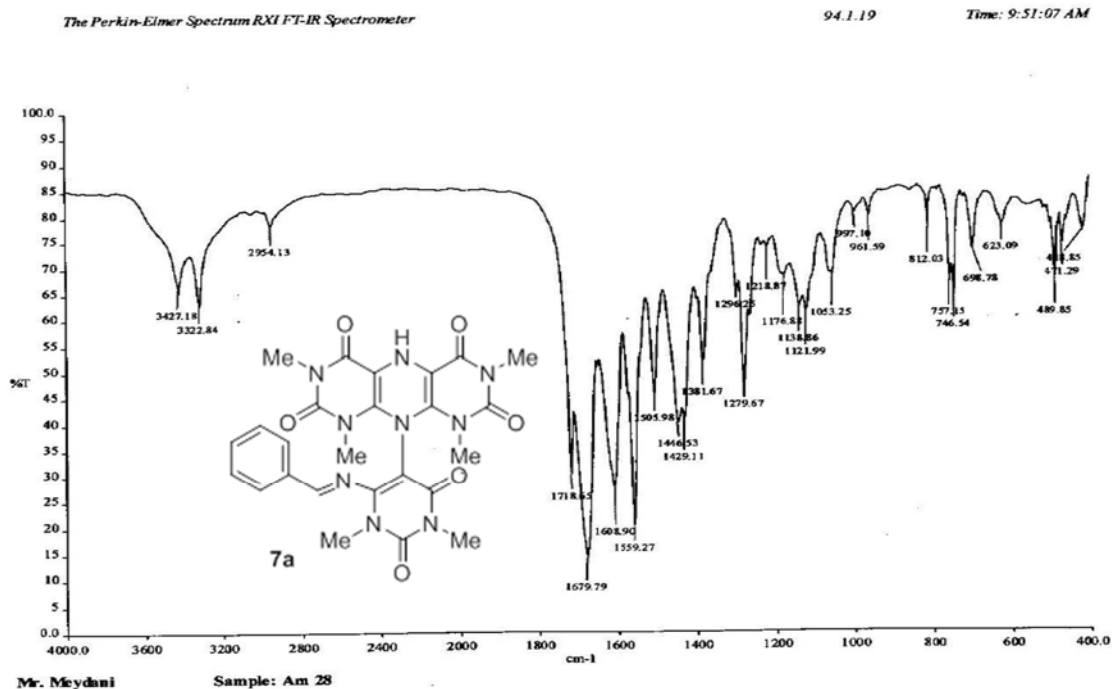
A one-pot synthesis of 5-(1,3-dimethyl-2,6-dioxo-5-[[*(1E)*-arylmethylene]amino]-1,2,3,6-tetrahydropyrimidin-4-yl)-1,3,7,9-tetramethyl-5,10-dihydropyrimido[5,4-*g*]pteridine-2,4,6,8(*1H,3H,7H,9H*)-tetrone via a pseudo four-component domino reaction

Mohammad Bagher Teimouri,* Ali Meydani, Zahra Panji

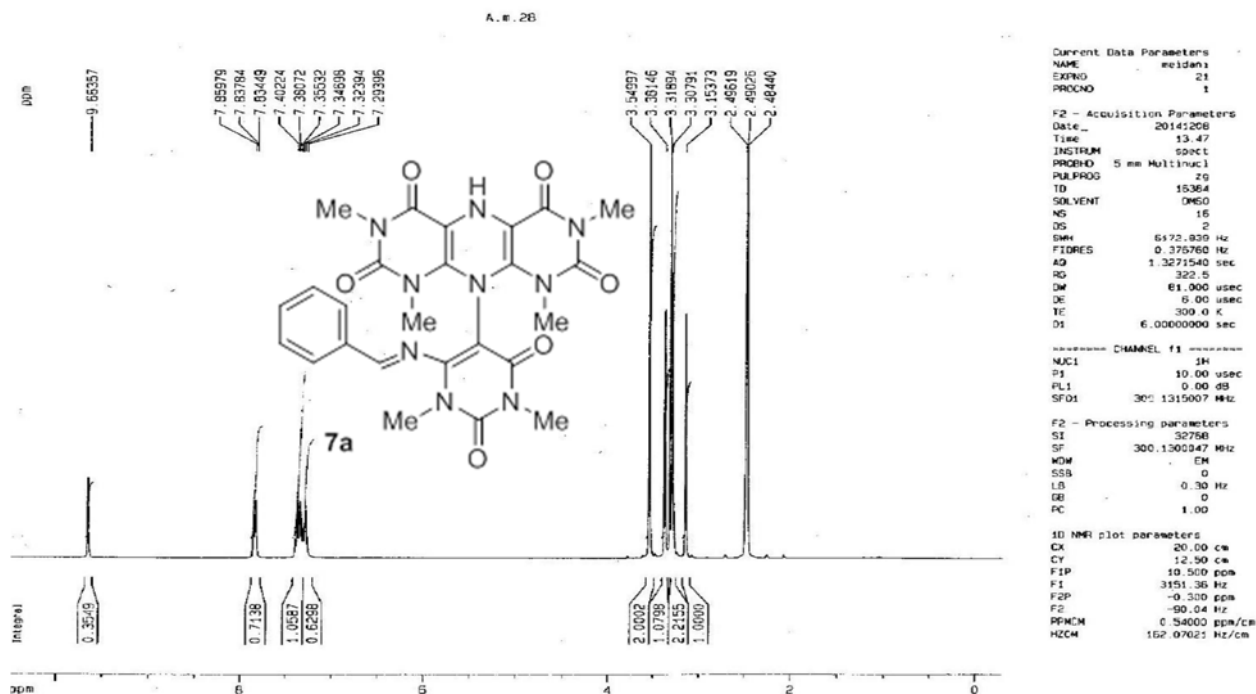
Faculty of Chemistry, Kharazmi University, Mofateh Ave., Tehran, Iran

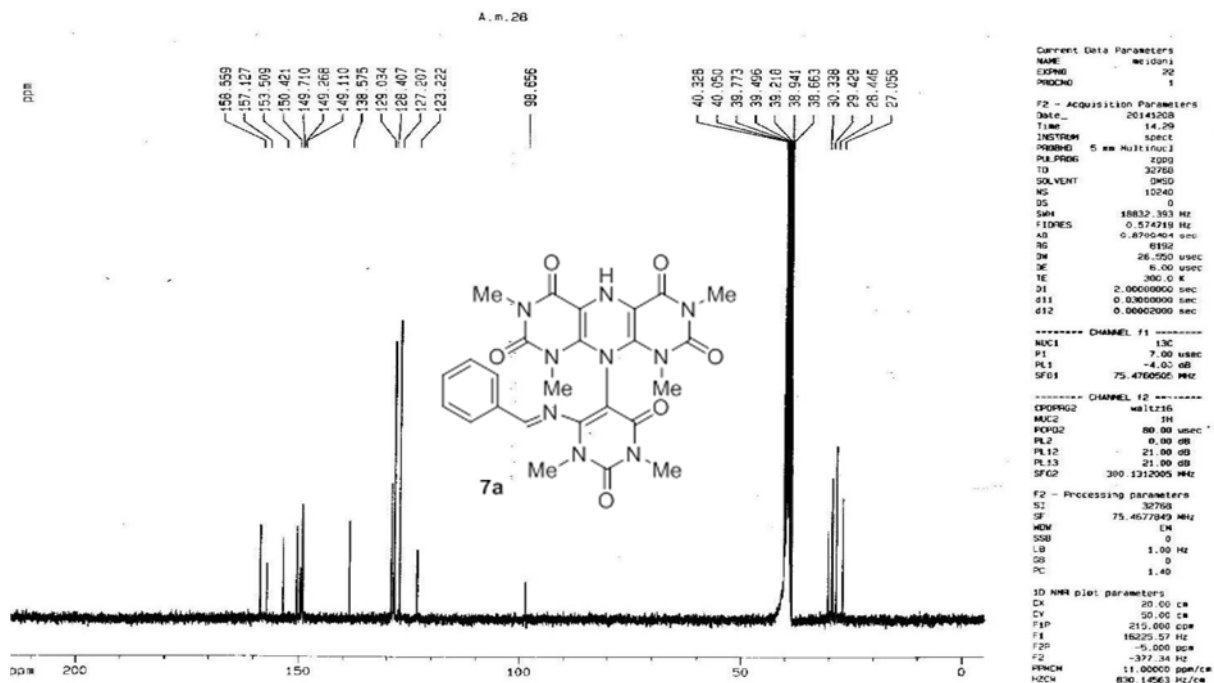
*Corresponding author. Tel/Fax: +98-26-34551023; e-mail: teimouri@khu.ac.ir

FT-IR of (7a):



¹H NMR (300 MHz, CDCl₃) of (7a):



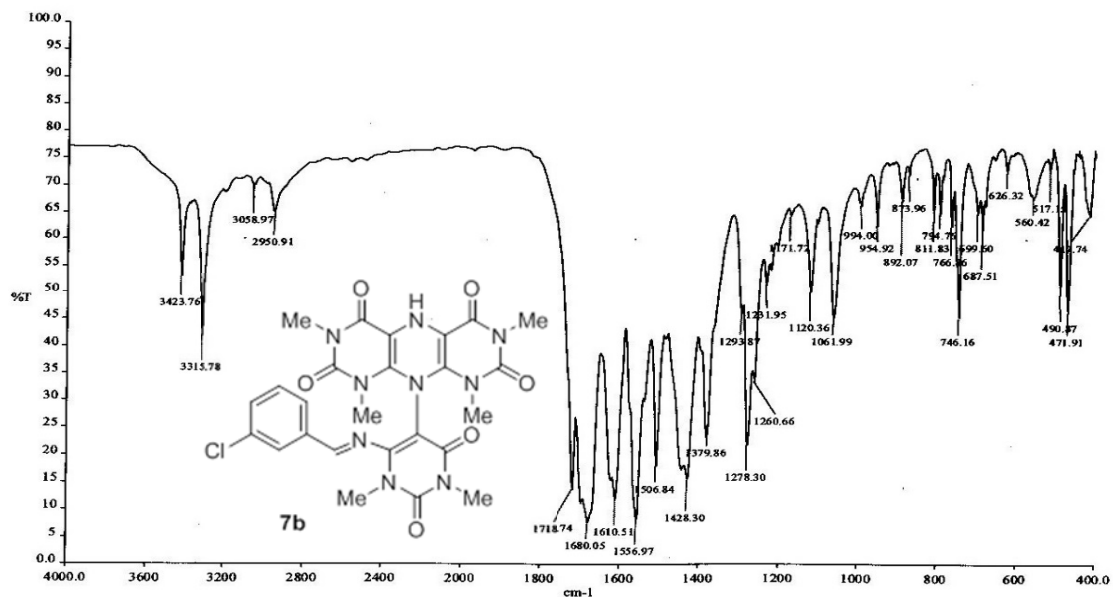


FT-IR of (7b):

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

94.1.17

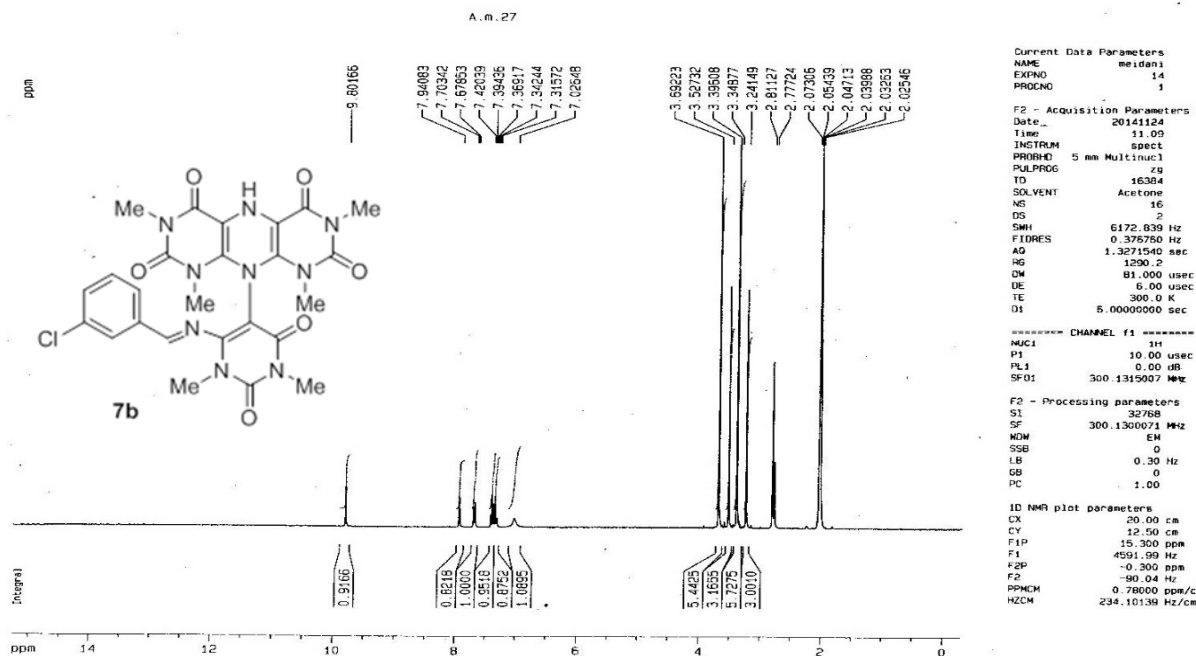
Time: 11:57:24 AM



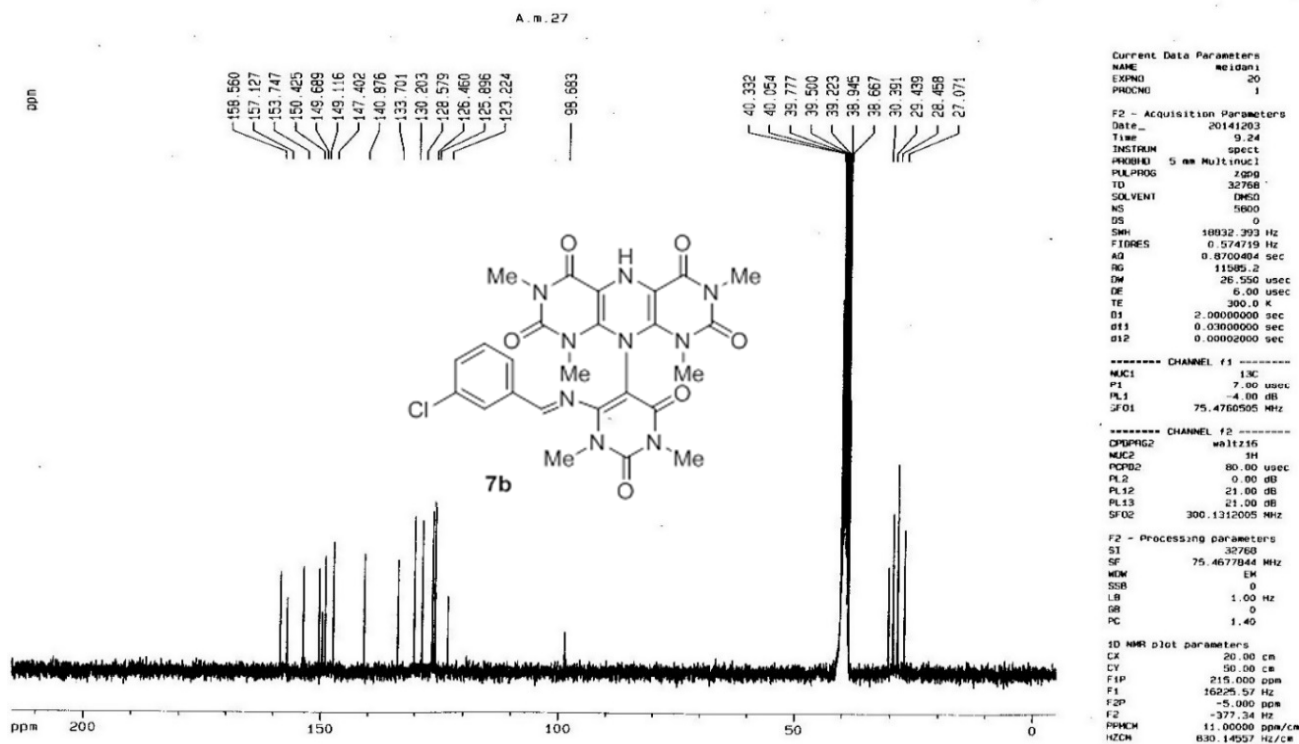
Mr. Meydani

Sample: Am 27

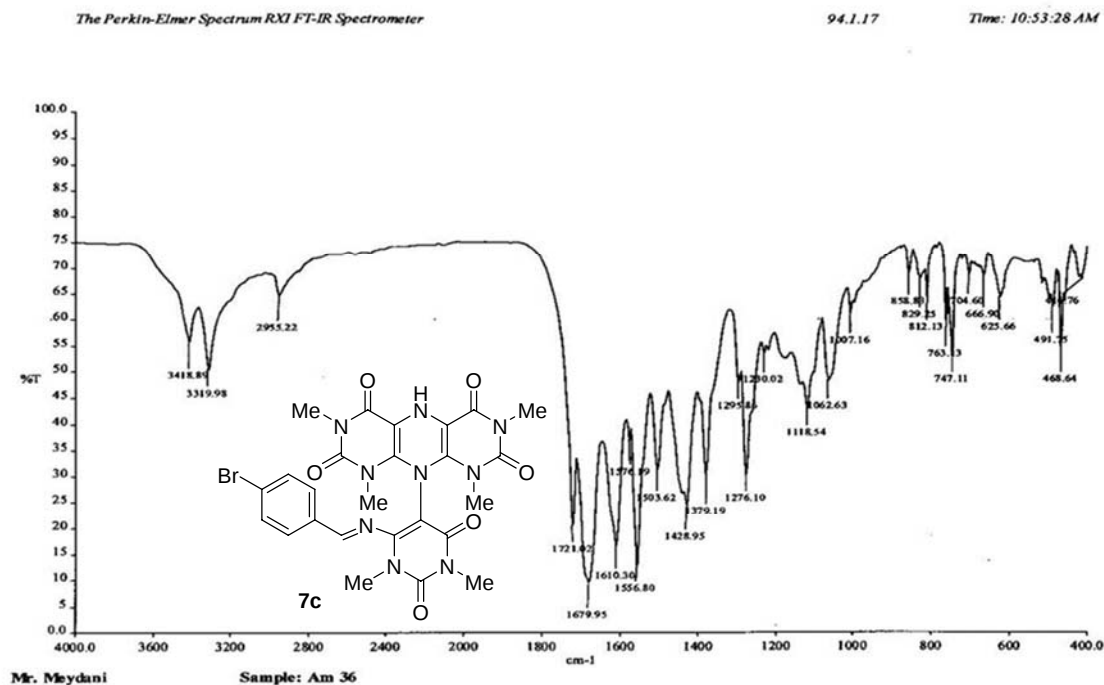
¹H NMR (300 MHz, CDCl₃) of (7b):



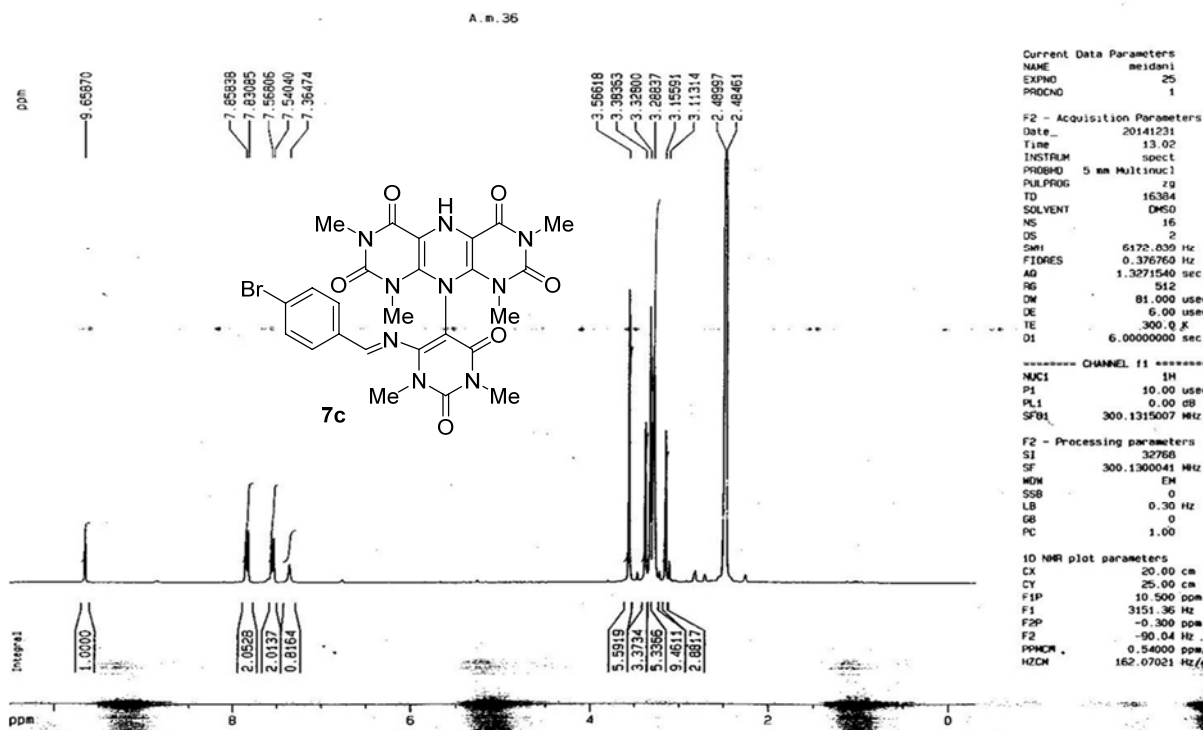
¹³C NMR (75 MHz, CDCl₃) of (7b):



FT-IR of (7c):



¹H NMR (300 MHz, CDCl₃) of (7c):



[illegible]

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

Date: 9/5/2015 (94/6/14)

Time: 2:55:01 PM

7d

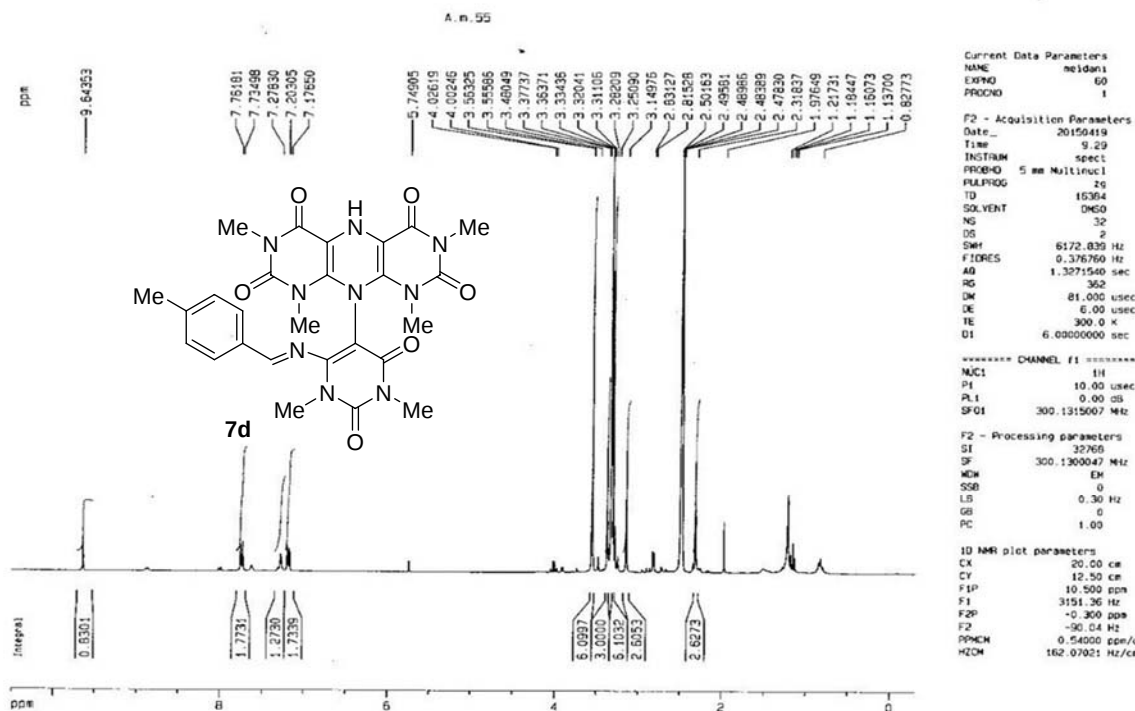
Chemical structure of 7d is shown above the spectrum.

Peak list (cm⁻¹): 3450.85, 2925.06, 2853.02, 1713.86, 1666.33, 1611.72, 1564.15, 1456.11, 1424.31, 1383.67, 1277.59, 1257.06, 1116.07, 1055.97, 834.77, 813.32, 748.37, 729.21, 707.15, 623.07, 488.66, 468.70, 460.39.

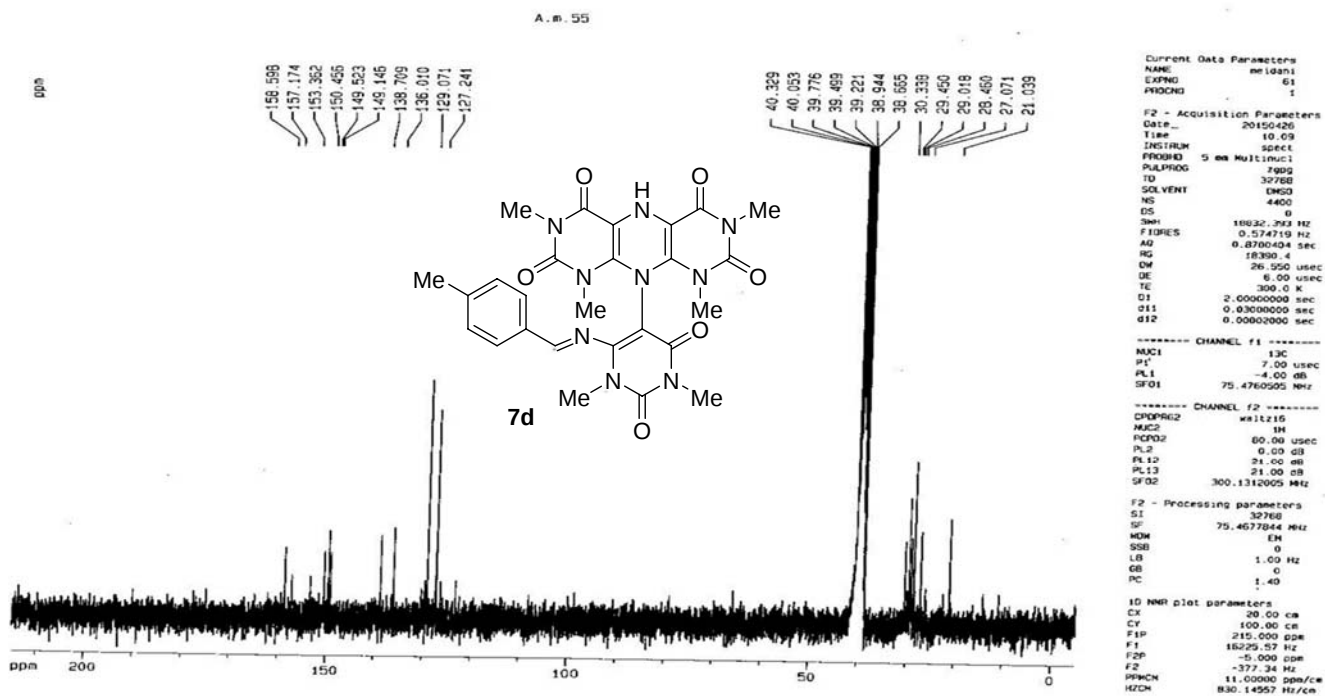
Mr. Meydani

Sample: A.m 55

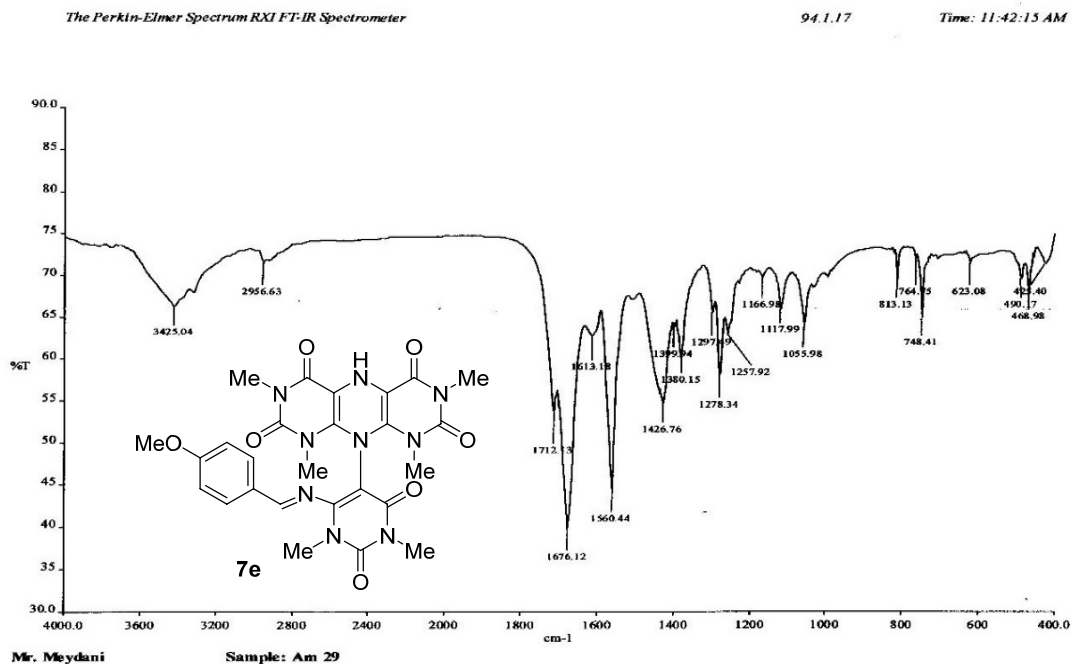
¹H NMR (300 MHz, CDCl₃) of (7d):



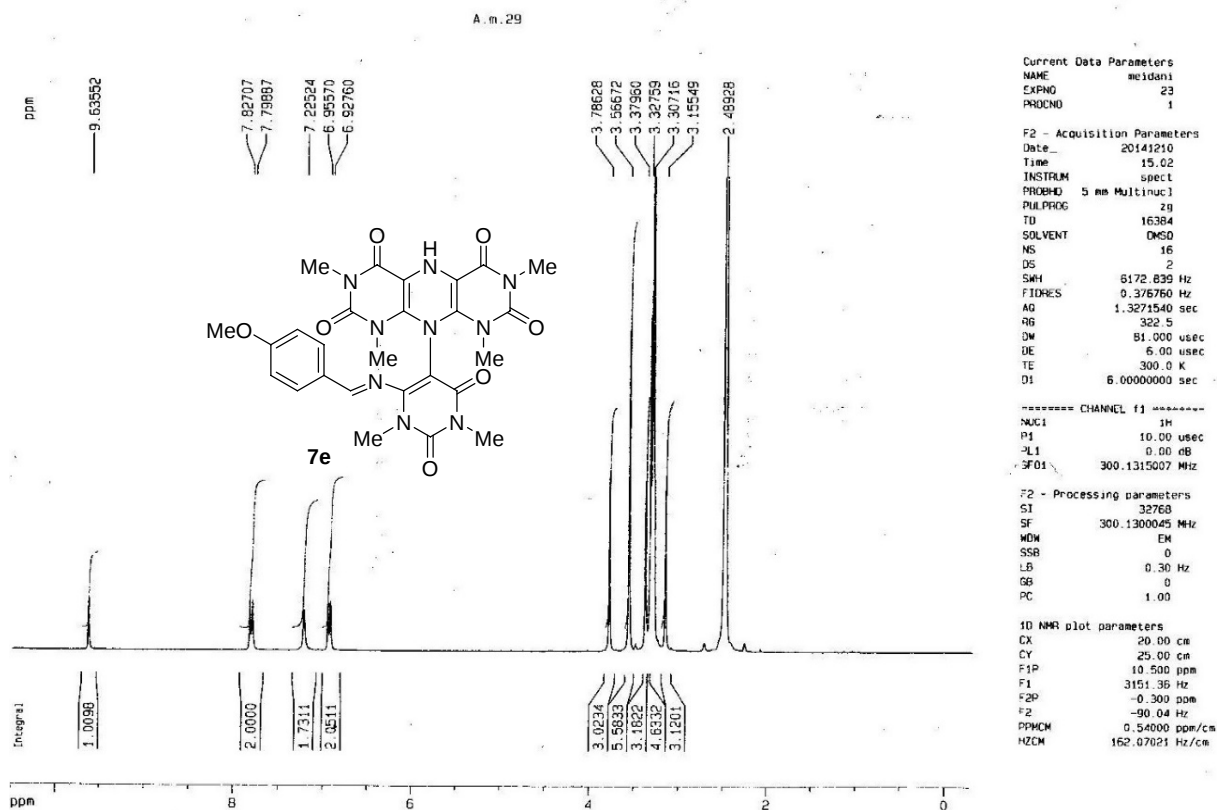
¹³C NMR (75 MHz, CDCl₃) of (7d):



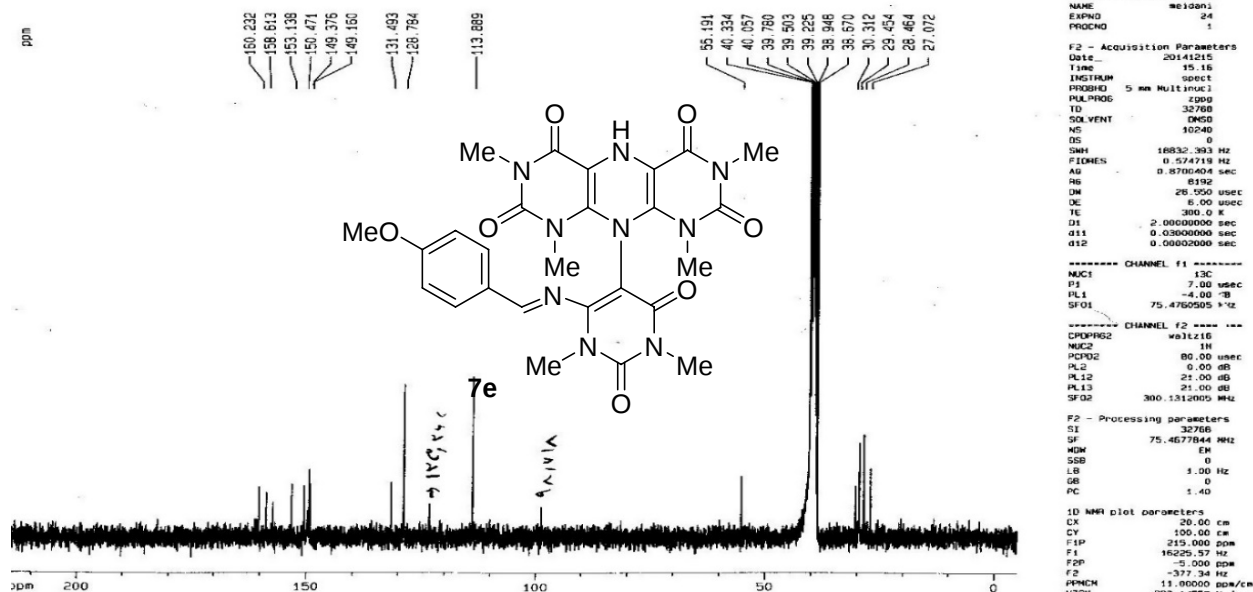
FT-IR of (7e):



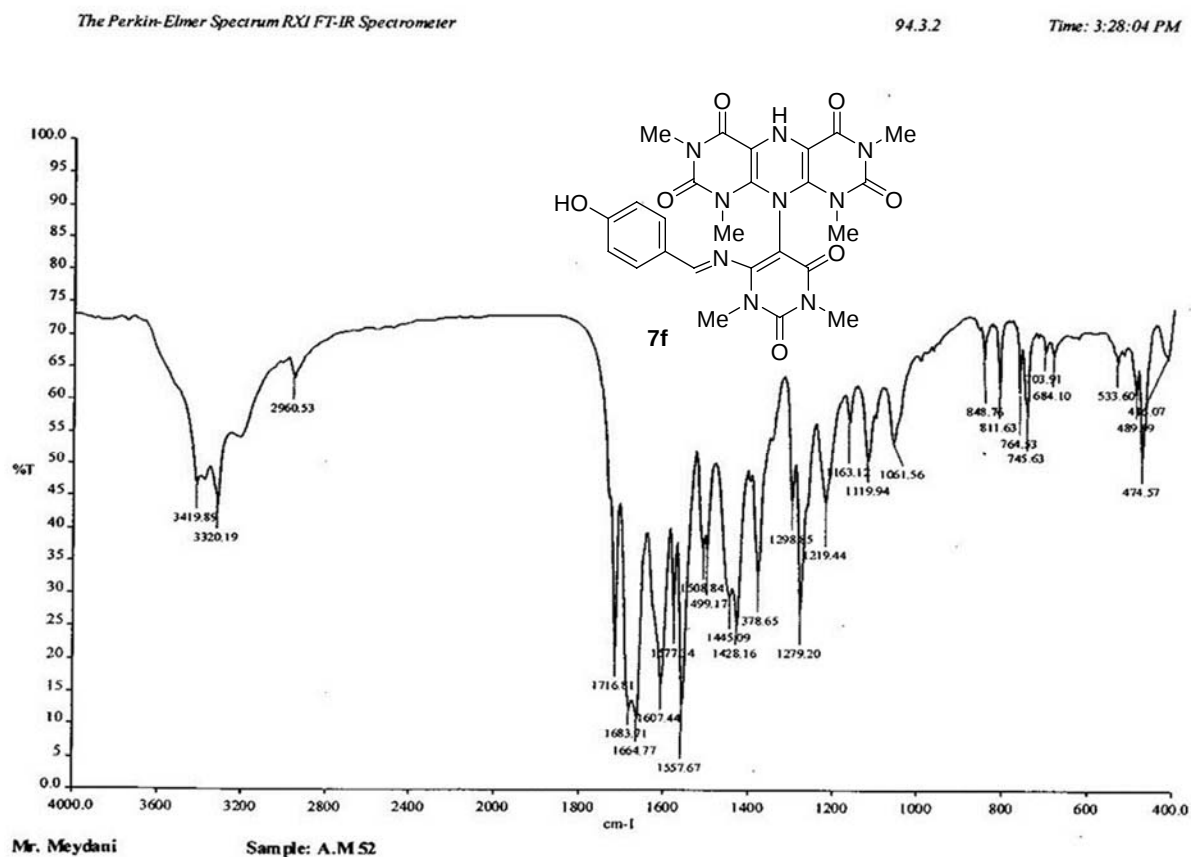
¹H NMR (300 MHz, CDCl₃) of (7e):



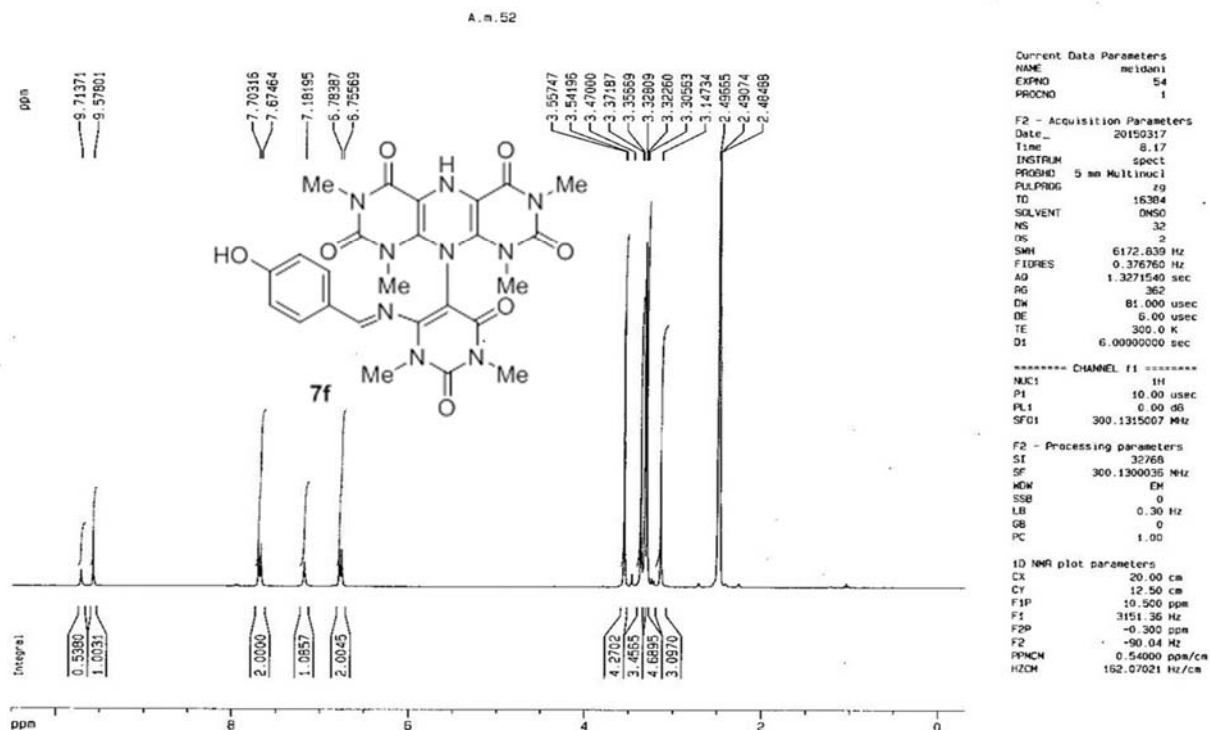
¹³C NMR (75 MHz, CDCl₃) of (7e):



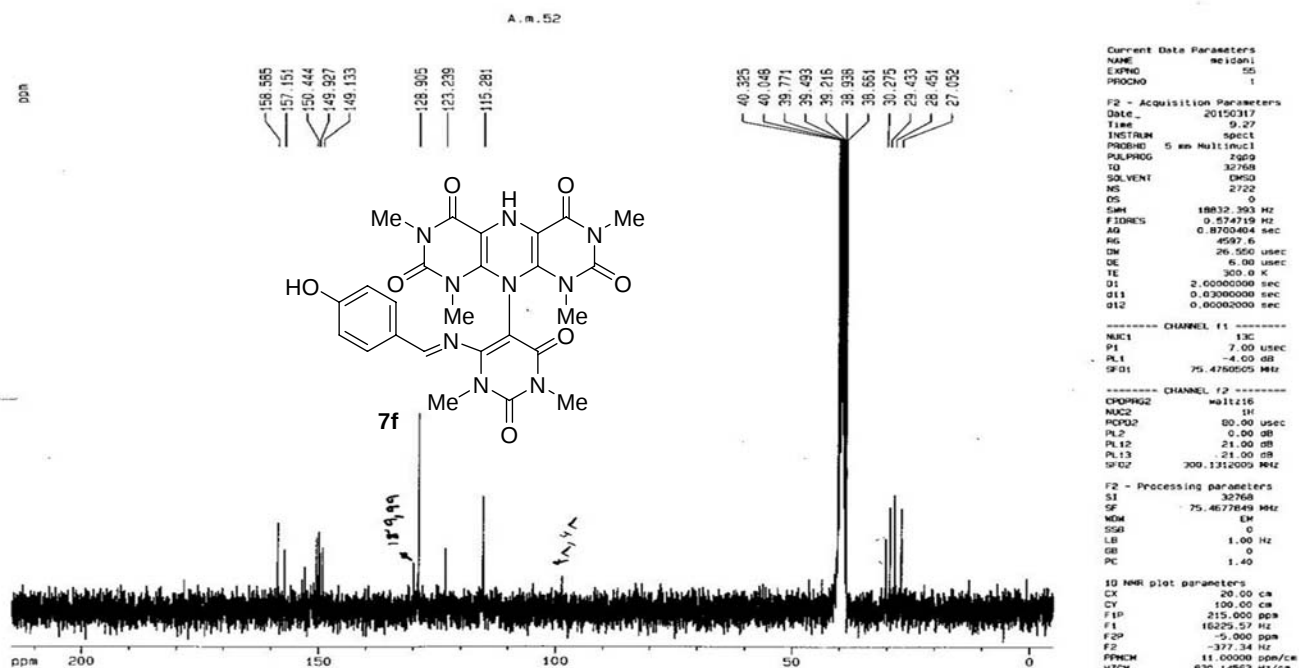
FT-IR of (7f):



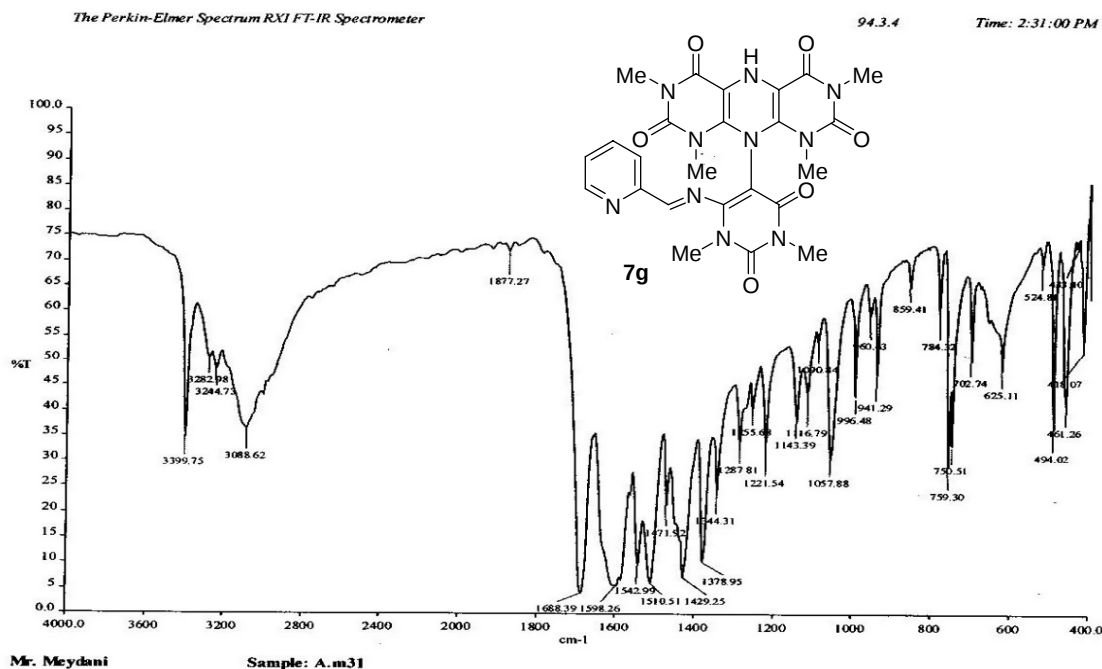
¹H NMR (300 MHz, CDCl₃) of (7f):



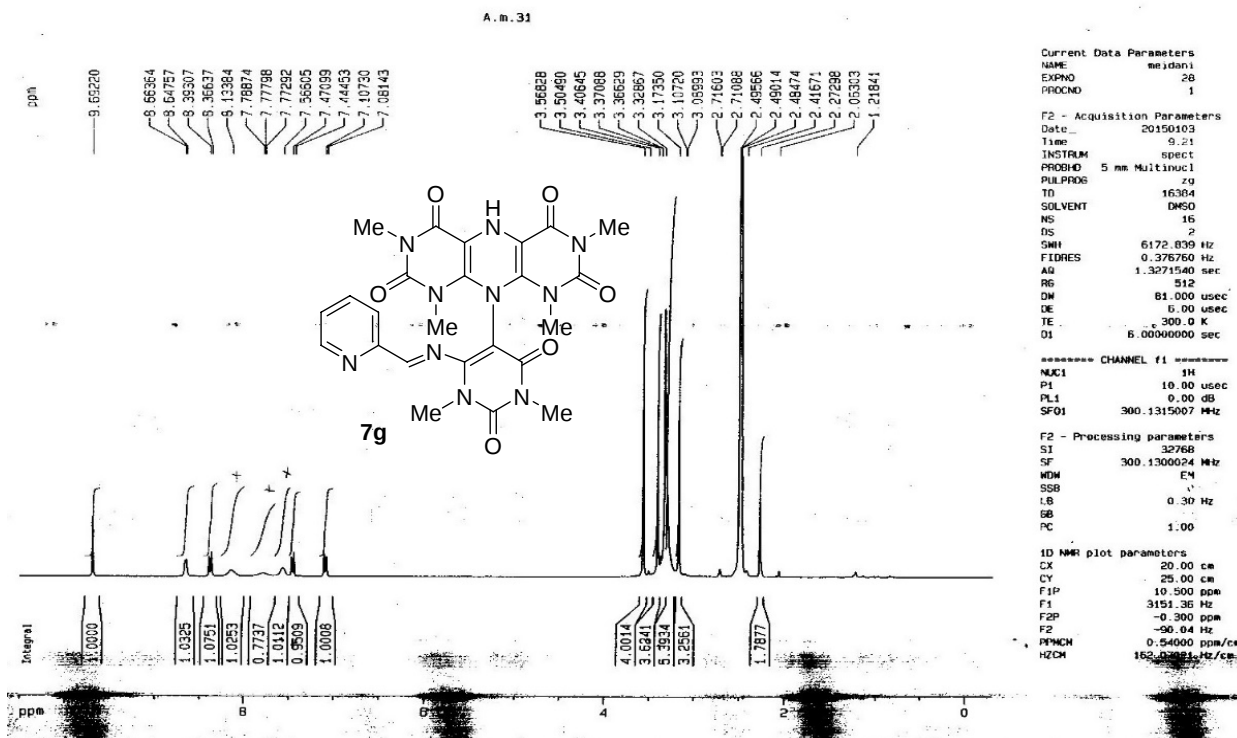
¹³C NMR (75 MHz, CDCl₃) of (7f):



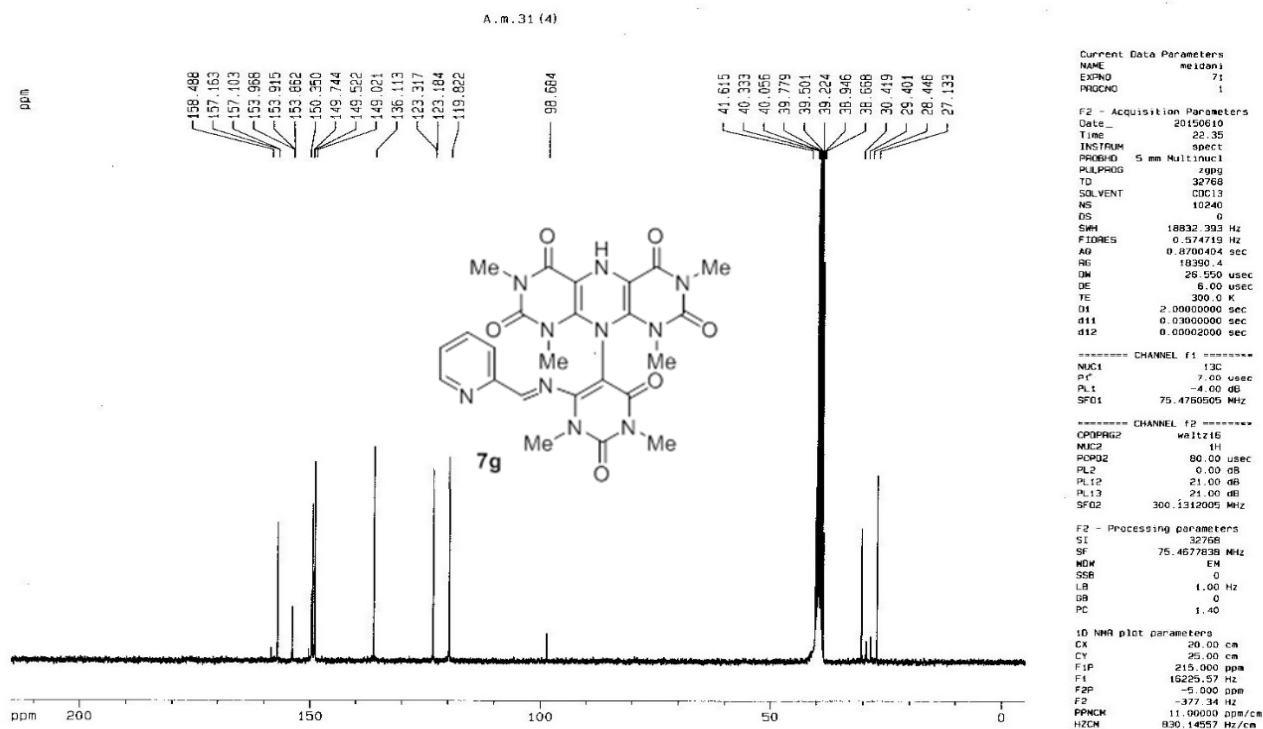
FT-IR of (7g):



¹H NMR (300 MHz, CDCl₃) of (7g):



¹³C NMR (75 MHz, CDCl₃) of (7g):

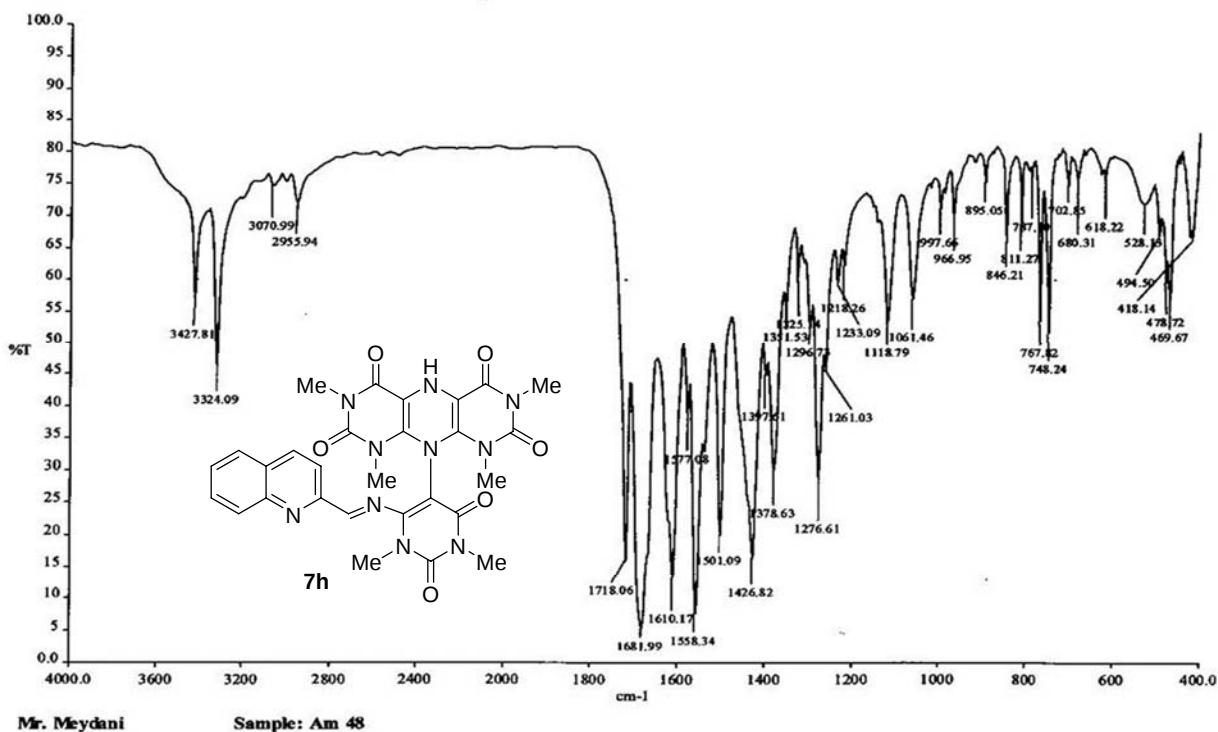


The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

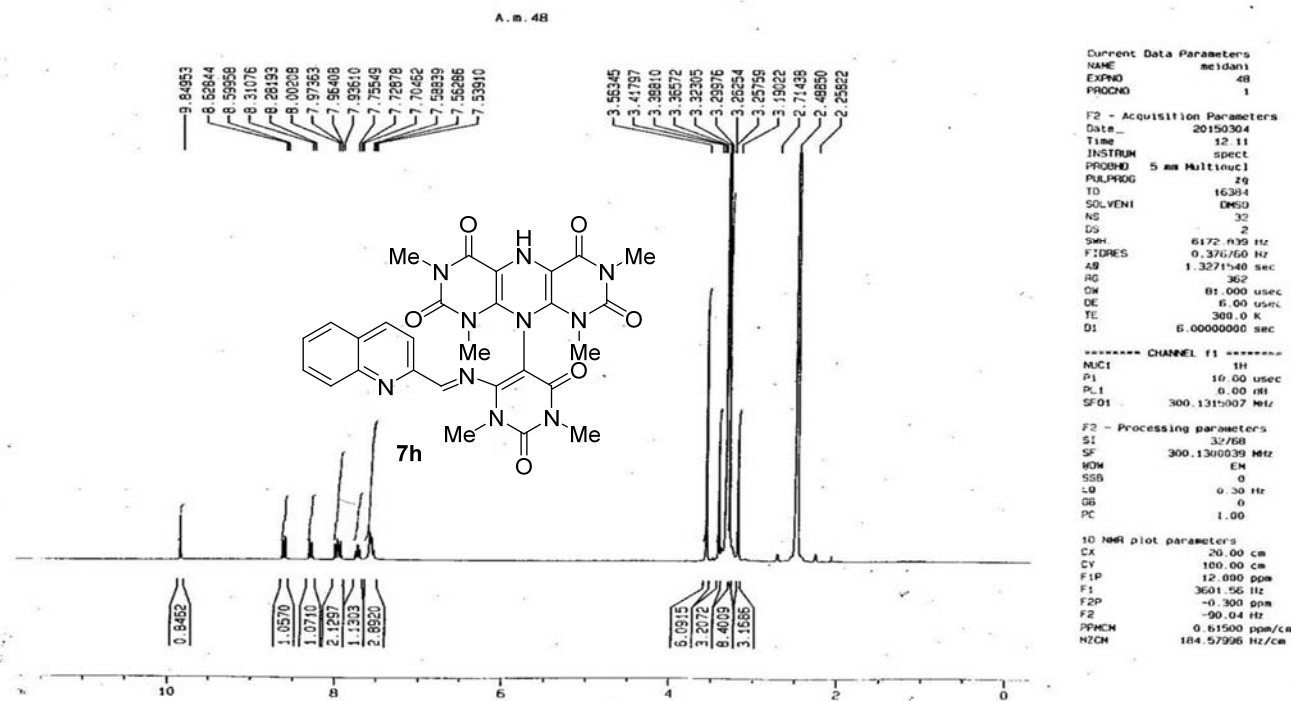
94.1.19

Time: 9:58:39 AM

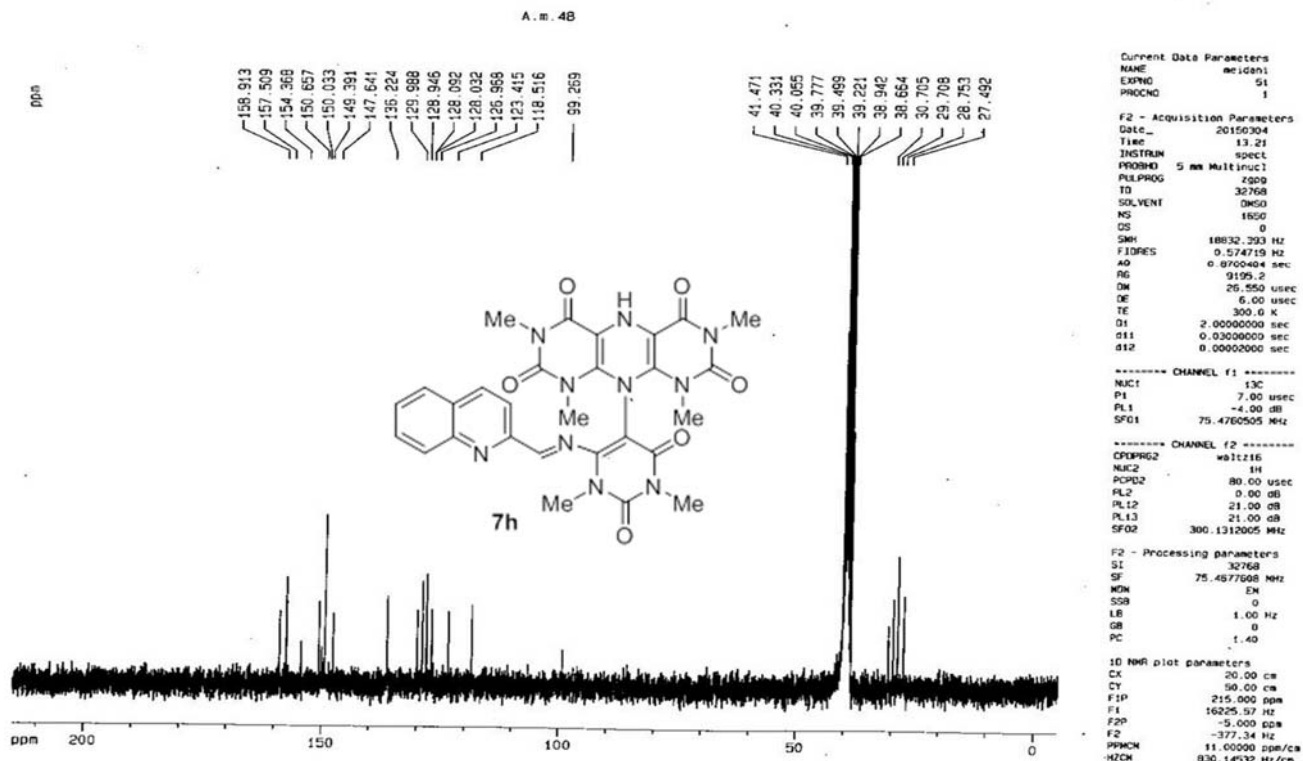
FT-IR of (7h):



¹H NMR (300 MHz, CDCl₃) of (7h):



¹³C NMR (75 MHz, CDCl₃) of (7h):

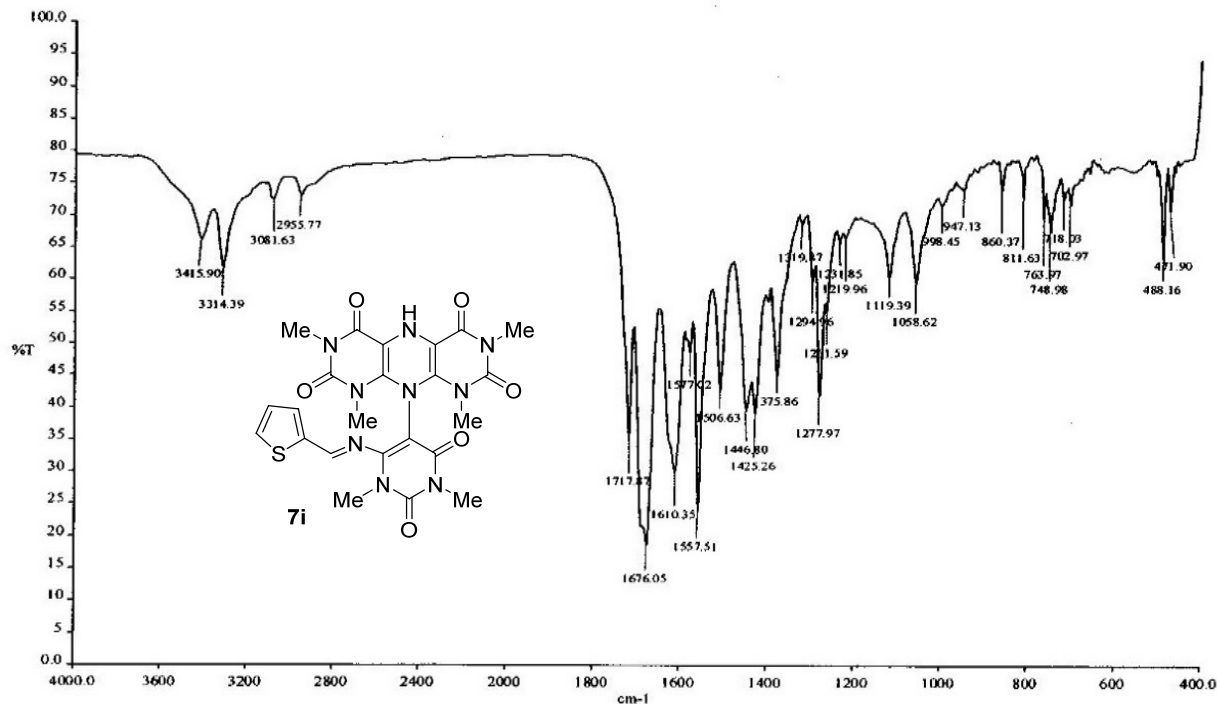


FT-IR of (7i):

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

94.3.4

Time: 2:45:10 PM

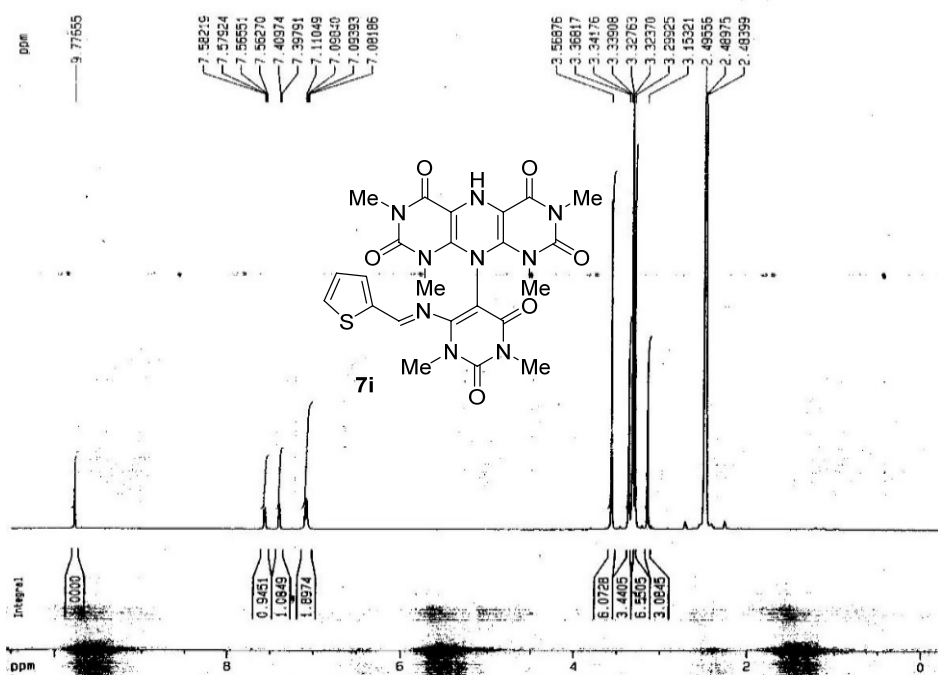


Mr. Meydani

Sample: A.m.34

¹H NMR (300 MHz, CDCl₃) of (7i):

A.m.34



Current Data Parameters
NAME: meidani
EXPNO: 27
PROCNO: 1

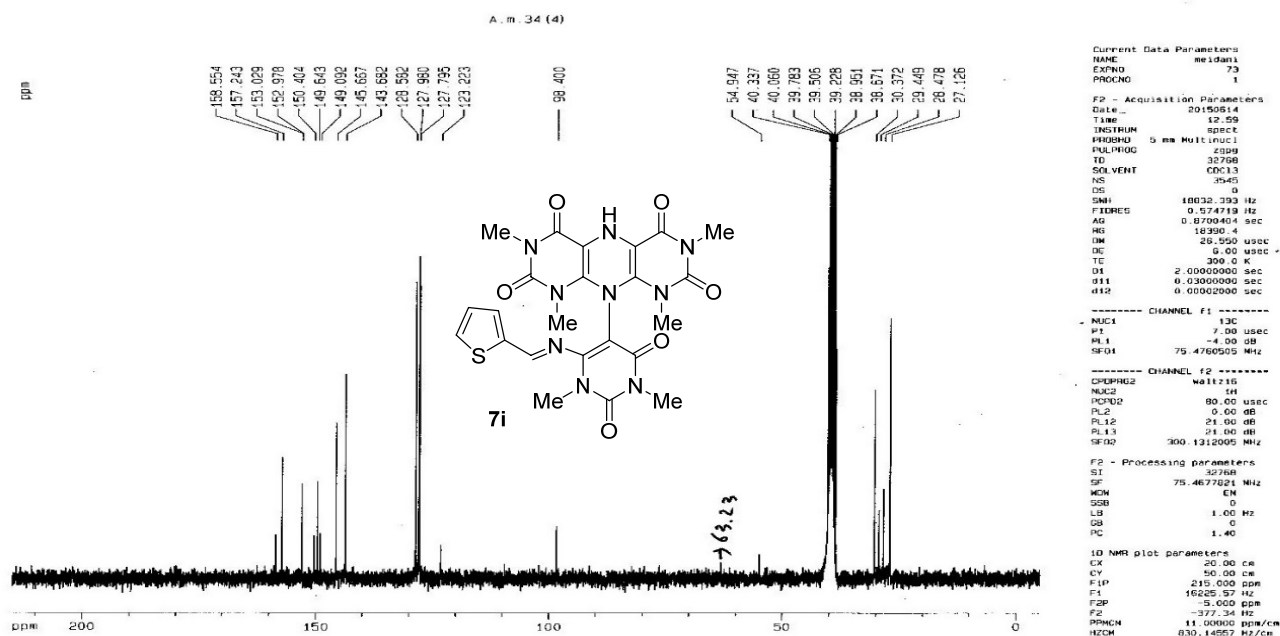
F2 - Acquisition Parameters
Date_: 20150103
Time: 8.27
INSTRUM: spect
PROBHD: 5 mm Multinuc1
PULPROG: zg
TD: 16384
SOLVENT: DMSO
NS: 16
DS: 2
SWH: 6172.839 Hz
FIDRES: 0.370760 Hz
AQ: 1.3271540 sec
RG: 512
DM: 81.000 usec
DE: 6.00 usec
TE: 300.0 K
D1: 6.00000000 sec

----- CHANNEL f1 -----
NUC1: 1H
P1: 10.00 usec
PL1: 0.00 dB
SF01: 300.1315007 MHz

F2 - Processing parameters
SI: 32768
SF: 300.1300023 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.00

1D NMR plot parameters
CX: 20.00 cm
CY: 25.00 cm
F1P: 10.500 ppm
F1: 3151.36 Hz
F2P: -0.300 ppm
F2: -90.04 Hz
F99MCH: 0.54000 ppm/cm
HZCM: 162.07023 MHz/cm

¹³C NMR (75 MHz, CDCl₃) of (7i):

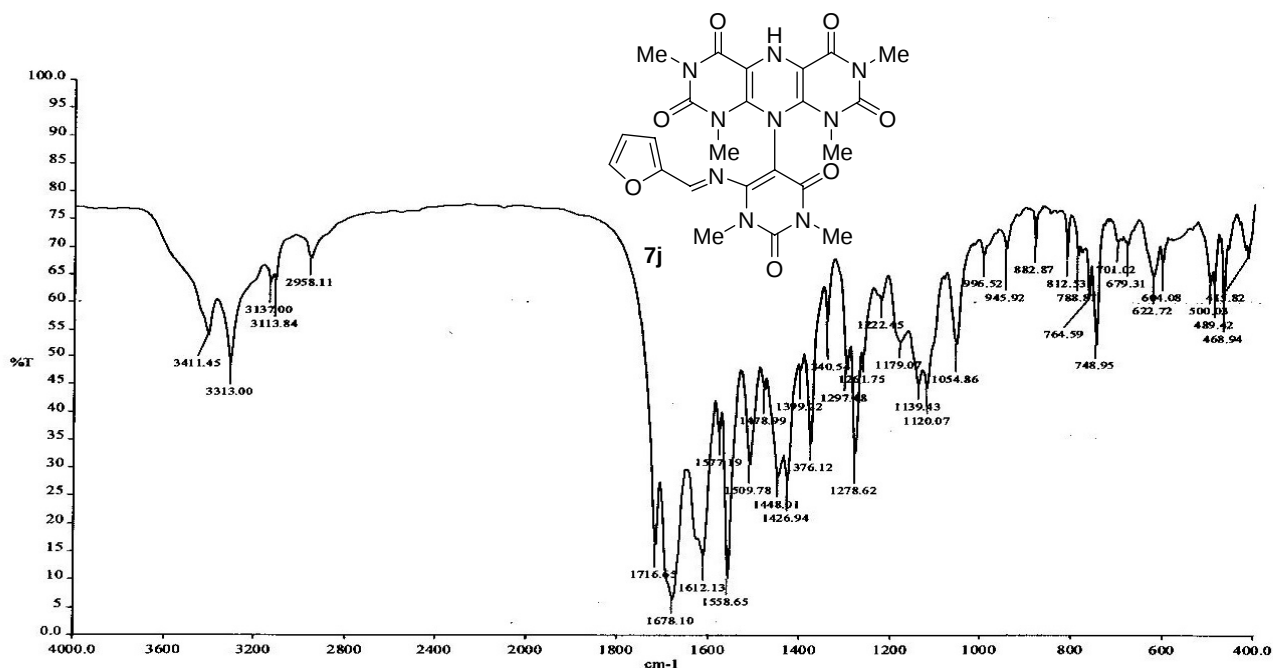


FT-IR of (7j):

The Perkin-Elmer Spectrum RXI FT-IR Spectrometer

94.1.17

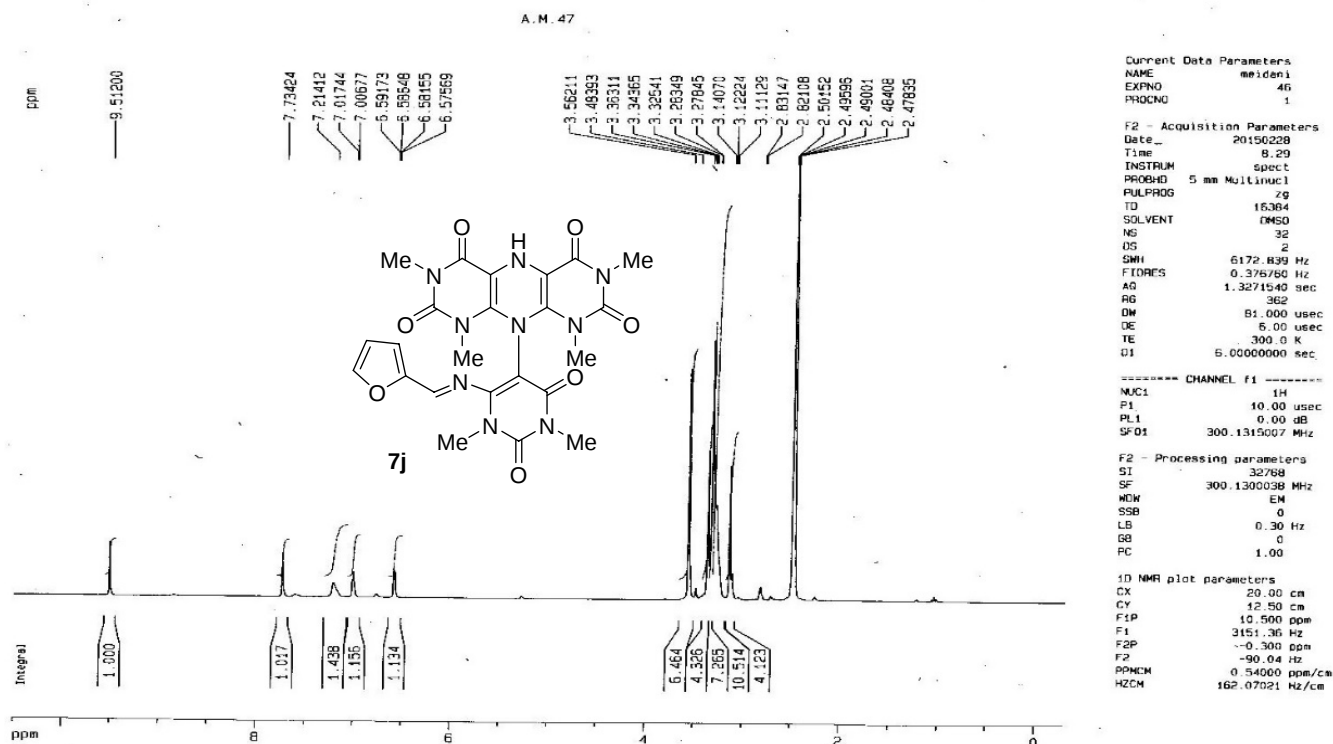
Time: 11:15:19 AM



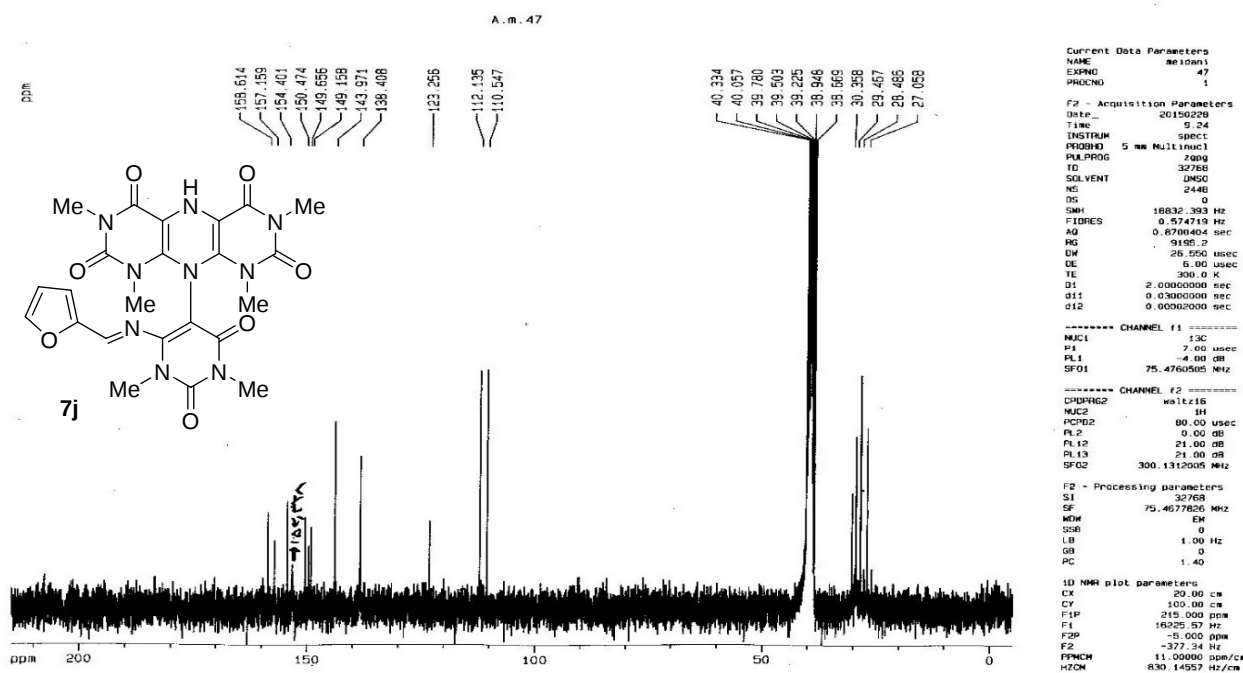
Mr. Meydani

Sample: Am 47

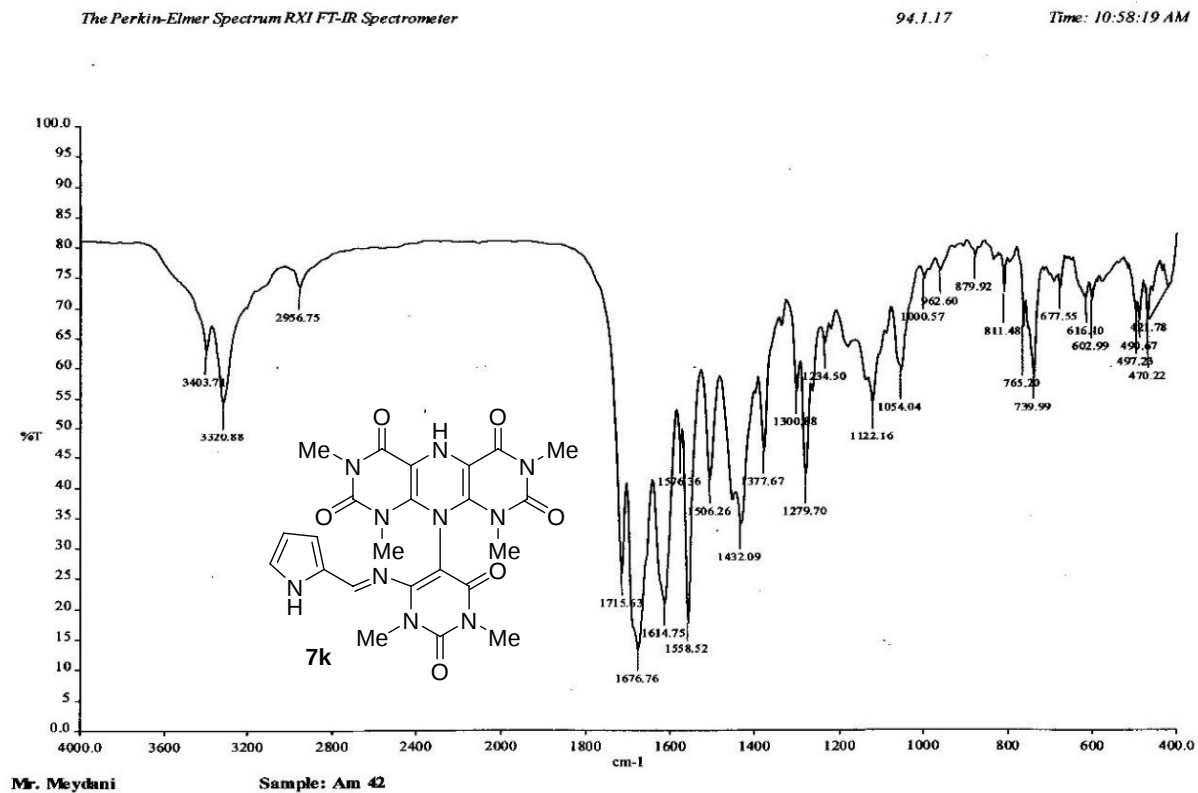
¹H NMR (300 MHz, CDCl₃) of (7j):



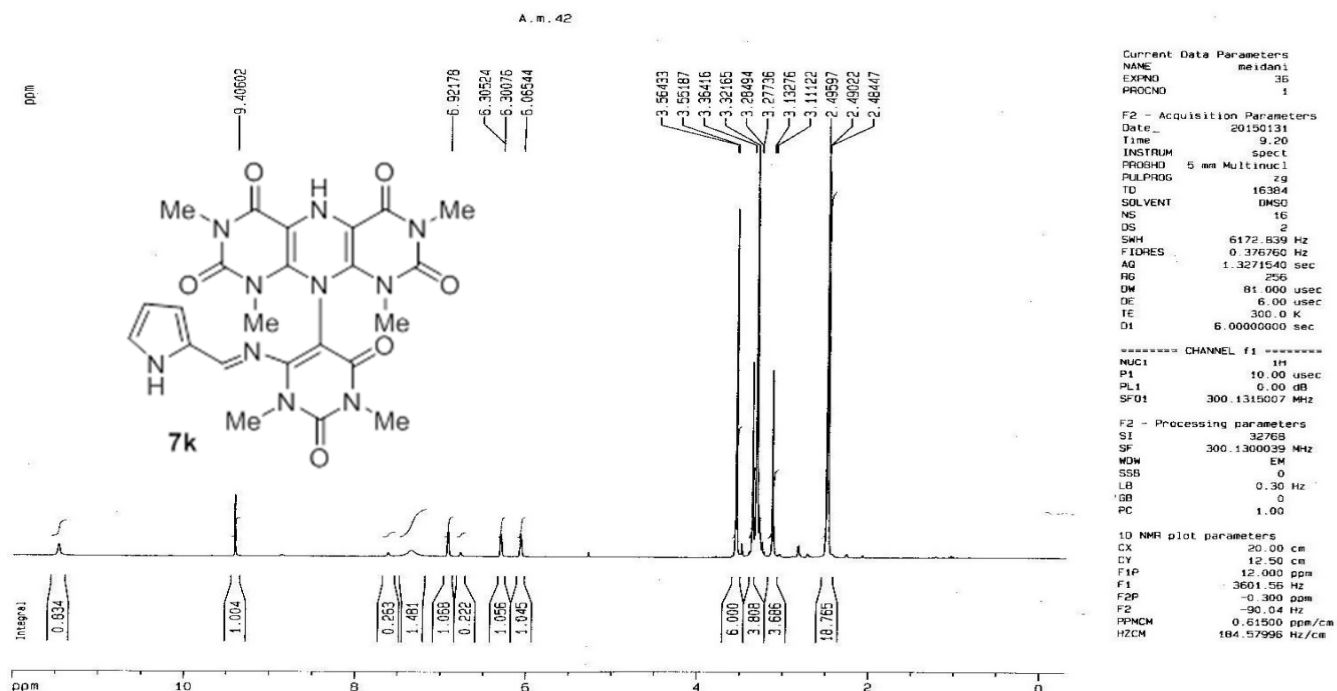
¹³C NMR (75 MHz, CDCl₃) of (7j):



FT-IR of (7k):



¹H NMR (300 MHz, CDCl₃) of (7k):



¹³C NMR (75 MHz, CDCl₃) of (7k):

