

Supplementary Material

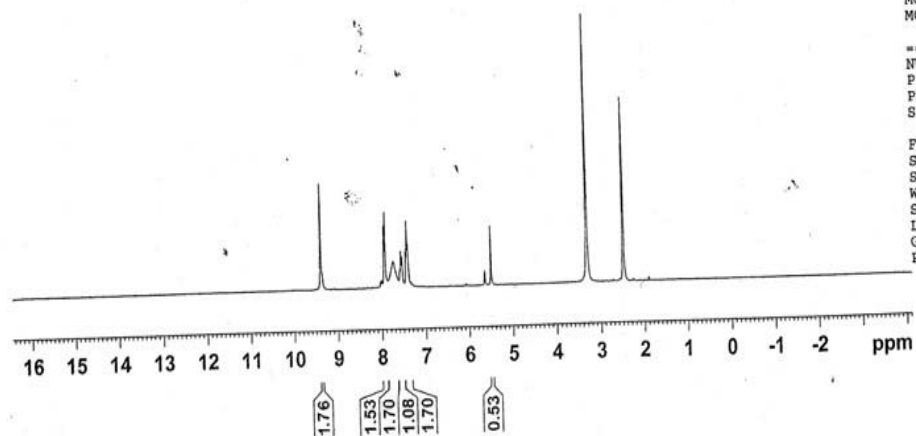
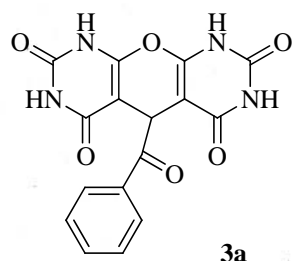
Efficient access to novel 5-aryloyl-1*H*-pyrano[2,3-*d*:6,5-*d'*]-dipyrimidine-2,4,6,8(3*H*,5*H*,7*H*,9*H*)-tetraones and their sulfur analogs in water

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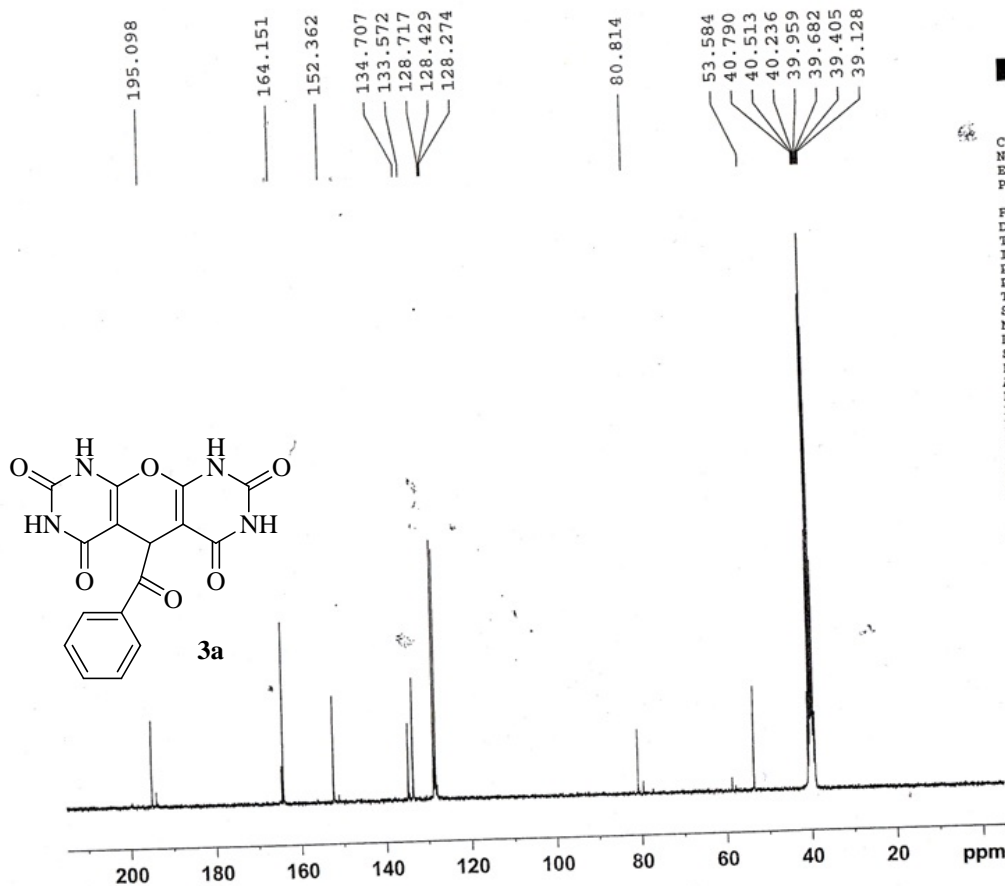
Current Data Parameters
 NAME Mrimaz
 EXPNO 211
 PROCNO 1

F2 - Acquisition Parameters

Date_
 Time 6.08
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 406.4
 DW 81.000 usec
 DE 6.00 usec
 TE 300.4 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



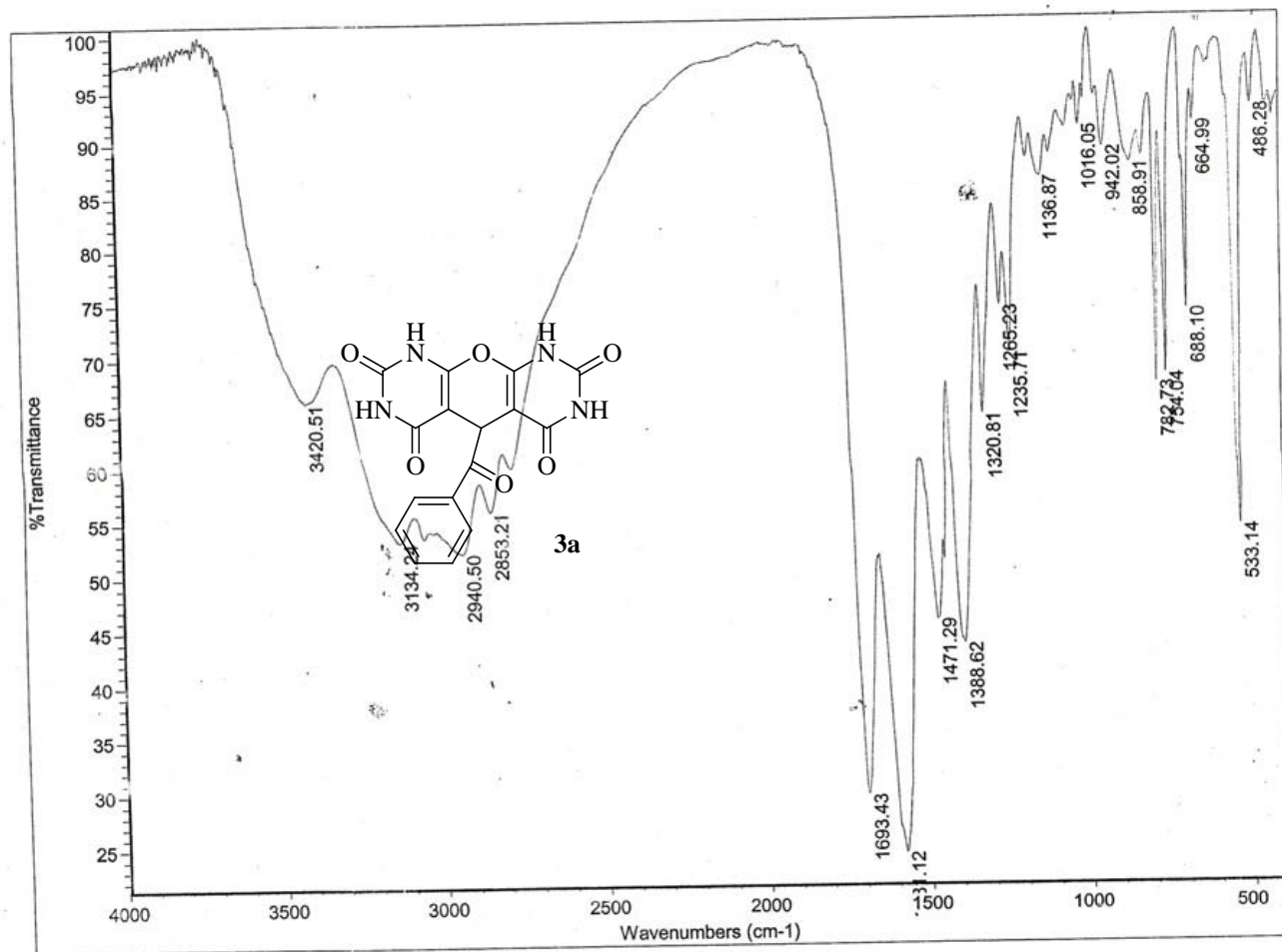
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 NAME Mrimax
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 PROCNO 1

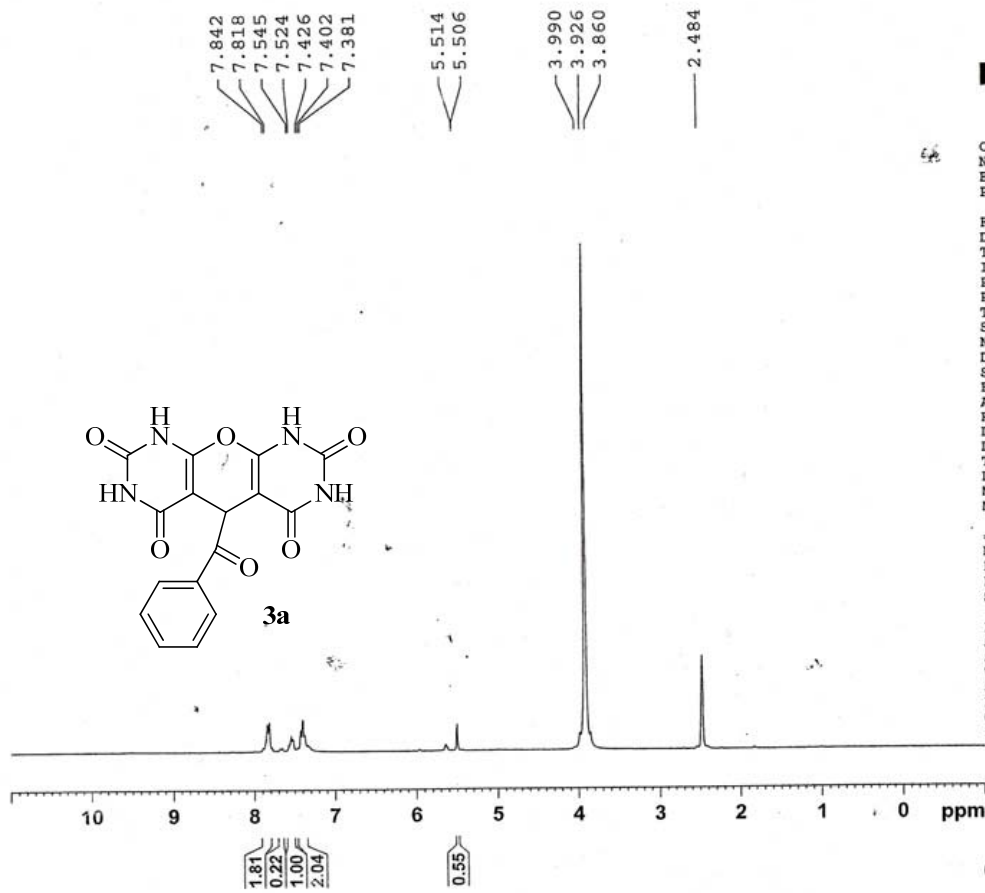
F2 - Acquisition Parameters
 Date_ 19.01
 Time spect
 INSTRUM 5 mm BBO BB-1H
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg
 TD 65536
 SOLVENT CDCl3
 NS 12000
 DS 0
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 6502
 DW 27.800 usec
 DE 6.00 usec
 TE 297.4 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 MCREST 0.0000000 sec
 MCWRK 0.0150000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 6.30 usec
 PL1 -5.00 dB
 SFO1 75.4752953 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 77.00 usec
 PL2 -3.00 dB
 PL12 17.00 dB
 PL13 17.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 MDW EM
 SSB 1.00 Hz
 LB 0
 GB 0
 PC 1.40





Current Data Parameters
 NAME Mrimaz
 EXPNO 213
 PROCNO 1

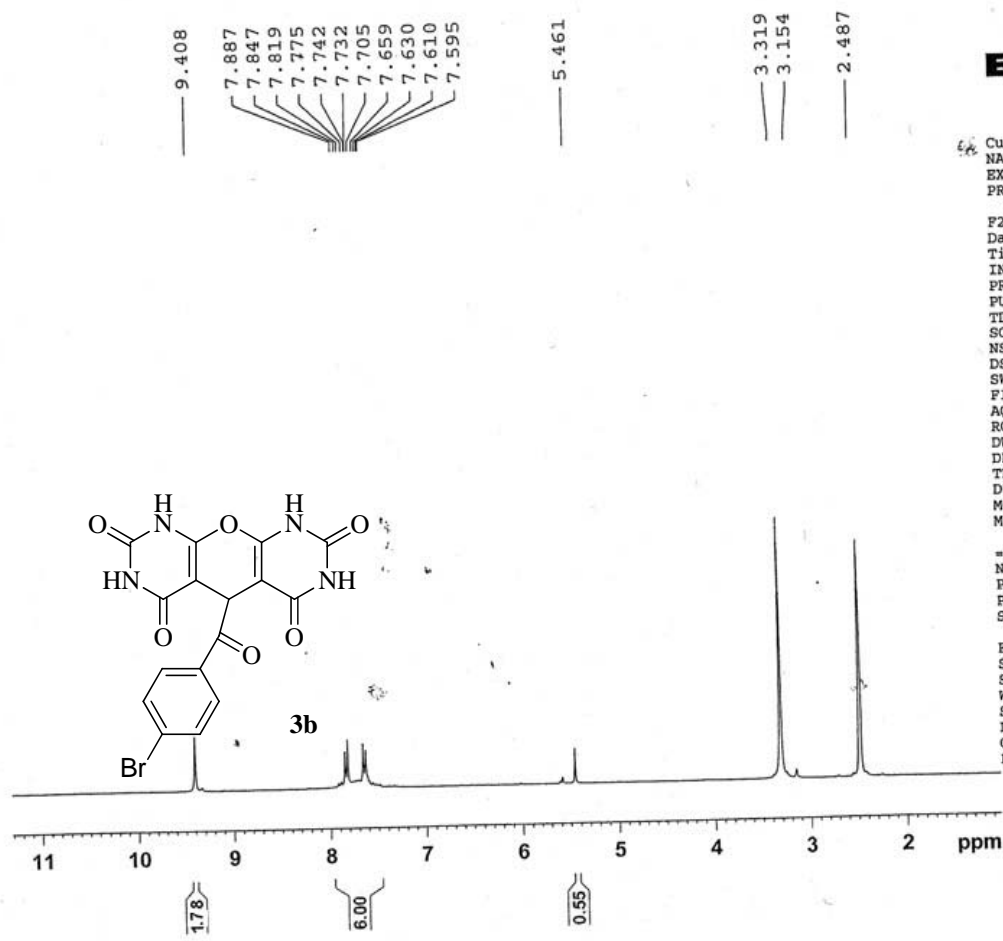
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 Date_
 Time_ 20.58
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 322.5
 DW 81.000 usec
 DE 6.00 usec
 TE 296.8 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

D₂O added

P-RV

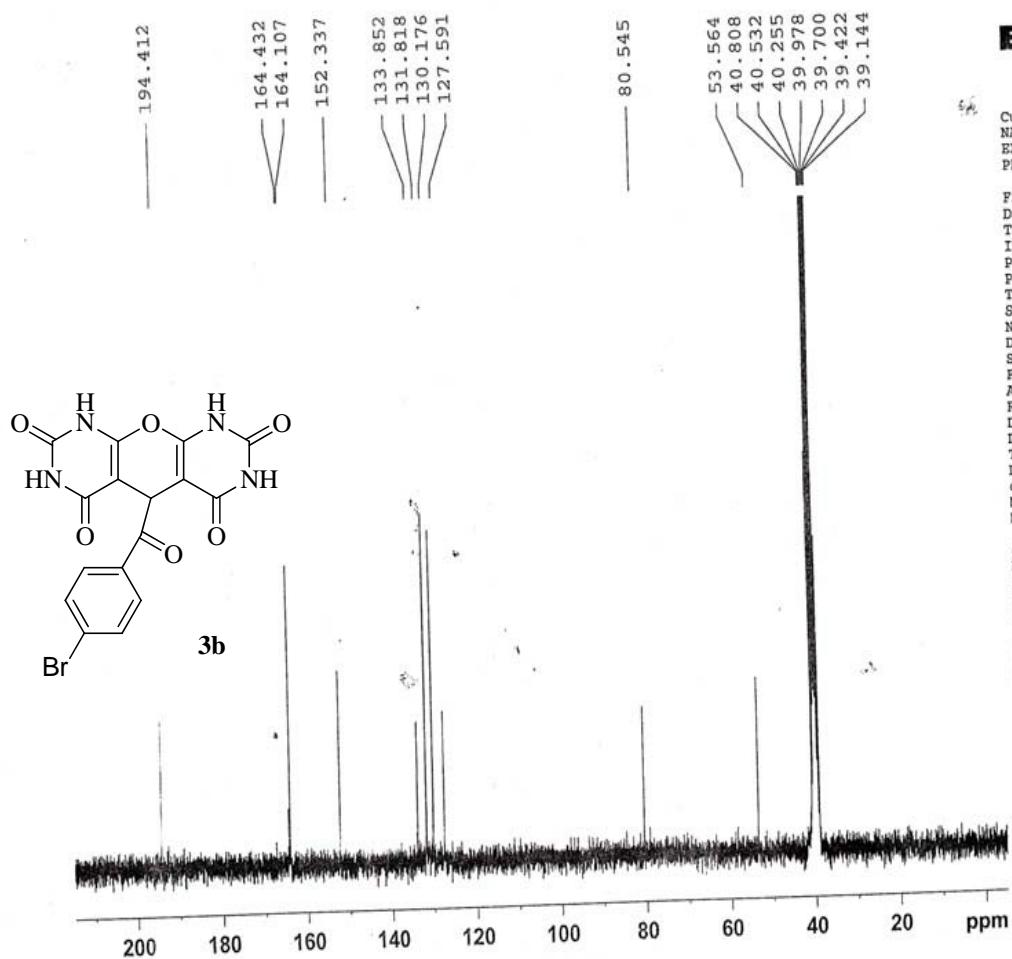


Current Data Parameters
 NAME Mrimaz
 EXPNO 259
 PROCNO 1

F2 - Acquisition Parameters
 Date_
 Time 3.10
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 406.4
 DW 81.000 usec
 DE 6.00 usec
 TE 297.5 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SP 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME Mrmaz
 EXPNO 260
 PROCNO 1

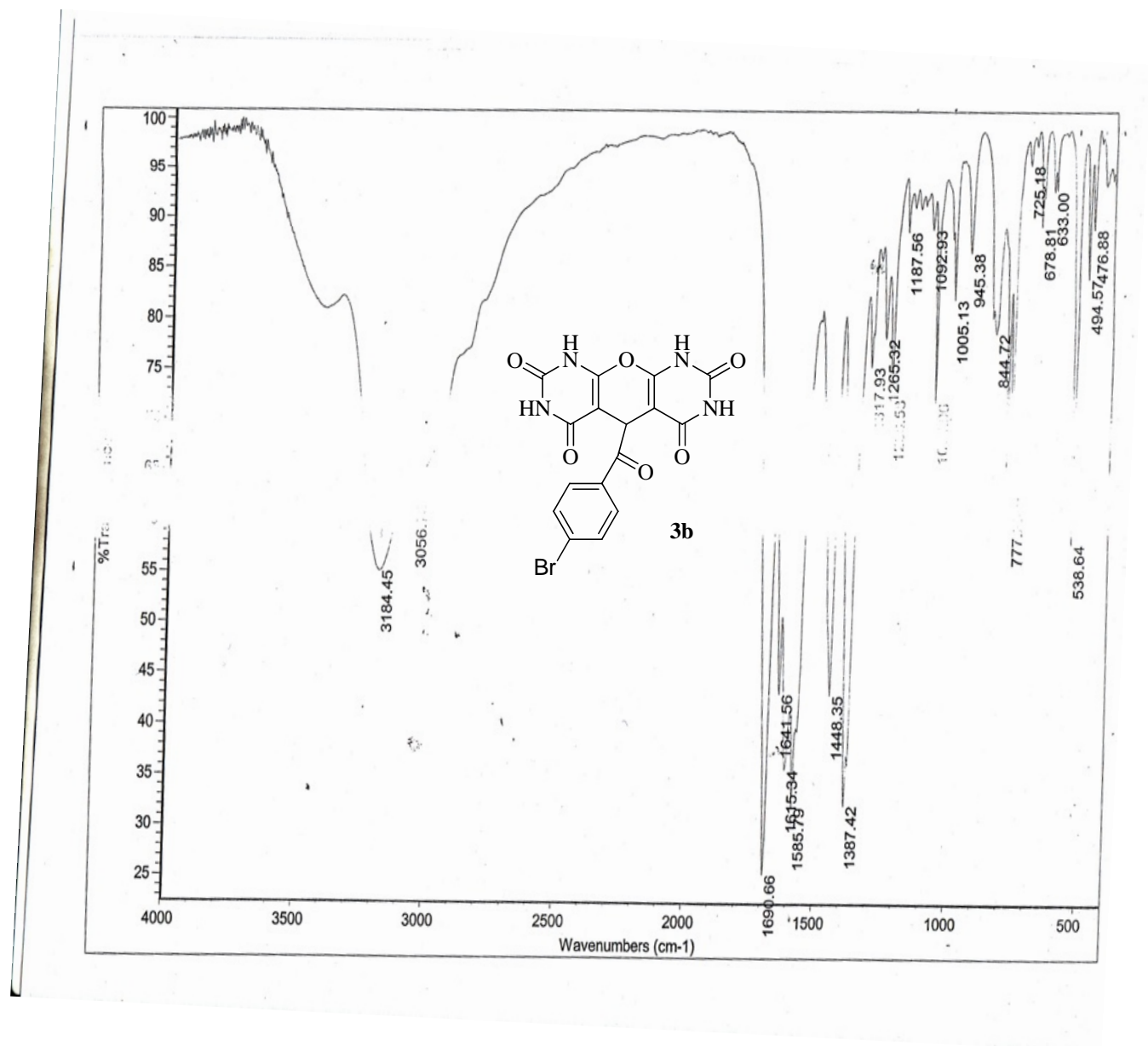
F2 - Acquisition Parameters

Date_ 5.22
 Time spect
 INSTRUM 5 mm BBO BB-1H
 PROBHD zgpg
 PULPROG 65536
 TD CDCl3
 SOLVENT 2000
 NS 0
 DS 17985.611 Hz
 SWH 0.274439 Hz
 FIDRES 1.8219508 sec
 AQ 4597.6
 RG 27.800 usec
 DW 6.00 usec
 DE 299.0 K
 TE 2.00000000 sec
 D1 0.03000000 sec
 d11 0.00000000 sec
 MCREST 0.01500000 sec
 MCWRK

***** CHANNEL f1 *****
 NUC1 13C
 P1 6.30 usec
 PL1 -5.00 dB
 SFO1 75.4752953 MHz

***** CHANNEL f2 *****
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 77.00 usec
 PL2 -3.00 dB
 PL12 17.00 dB
 PL13 17.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



p-Br D₂O added



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Current Data Parameters
NAME      Mrimaz
EXPNO     261
PROCNO    1

F2 - Acquisition Parameters
Date_     20150414
Time      5.37
INSTRUM   spect
PROBHD    5 mm BBO BB-1H
PULPROG   zg30
TD         32768
SOLVENT   DMSO
NS         16
DS         0
SWH        6172.839 Hz
FIDRES     0.188380 Hz
AQ         2.6542580 sec
RG         322.5
DW         81.000 usec
DE         6.00 usec
TE         298.3 K
D1         1.00000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

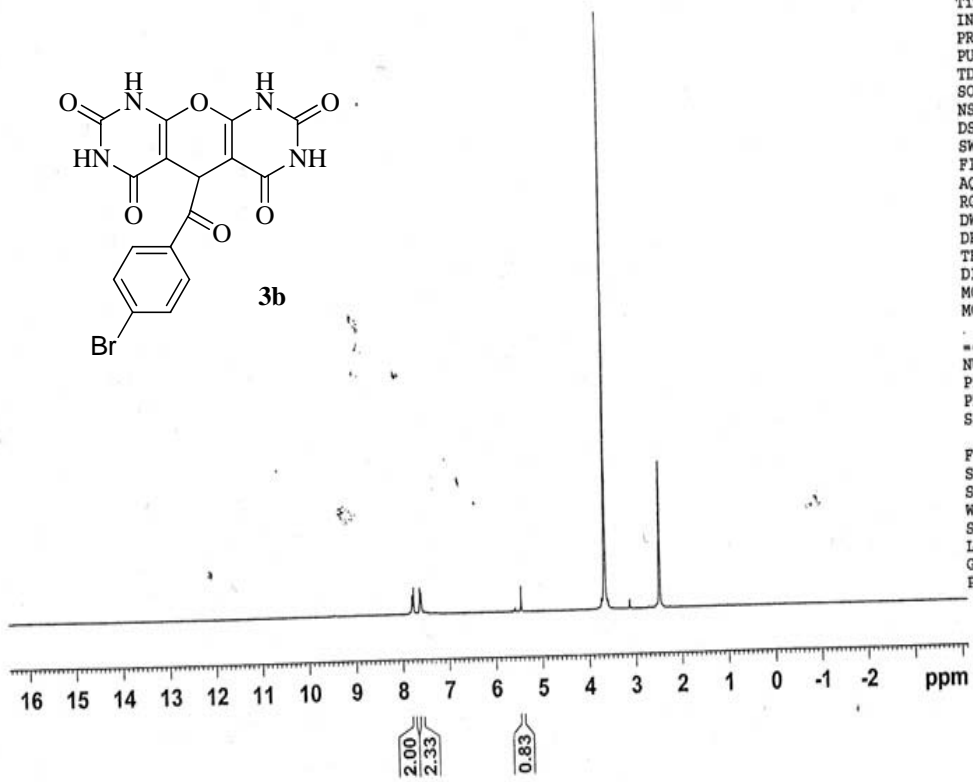
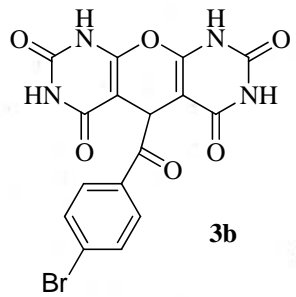
----- CHANNEL f1 -----
NUC1      1H
P1         8.20 usec
PL1        -3.00 dB
SFO1      300.1318534 MHz

F2 - Processing parameters
SI         32768
SF         300.1300000 MHz
WDW        EM
SSB         0
LB         0.30 Hz
GB         0
PC         1.00
    
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7.798
7.770
7.637
7.623
7.609

5.465

3.735
3.667
3.603
3.132
2.486



p-c

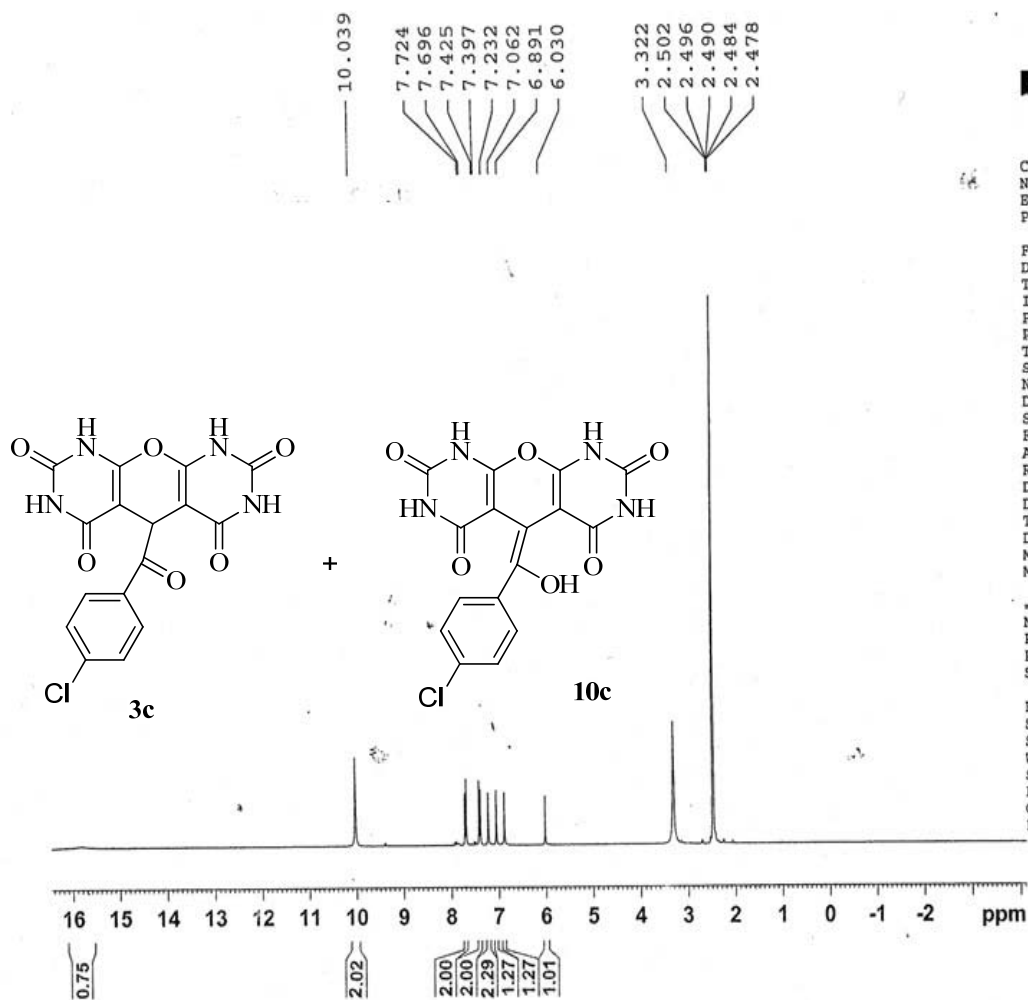


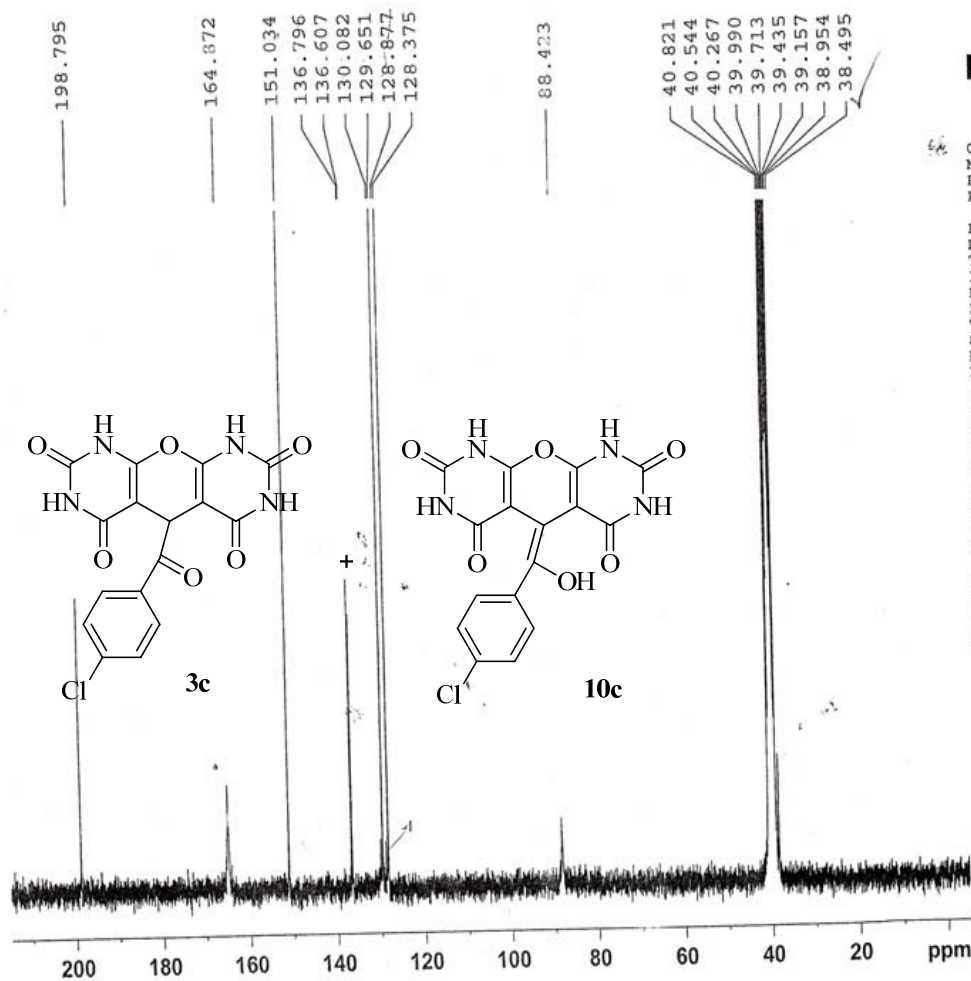
Current Data Parameters
 NAME Mrimaz
 EXPNO 284
 PROCNO 1

F2 - Acquisition Parameters
 Date
 Time 4.01
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.189380 Hz
 AQ 2.6542580 sec
 RG 812.7
 DW 81.000 usec
 DE 6.00 usec
 TE 673.2 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





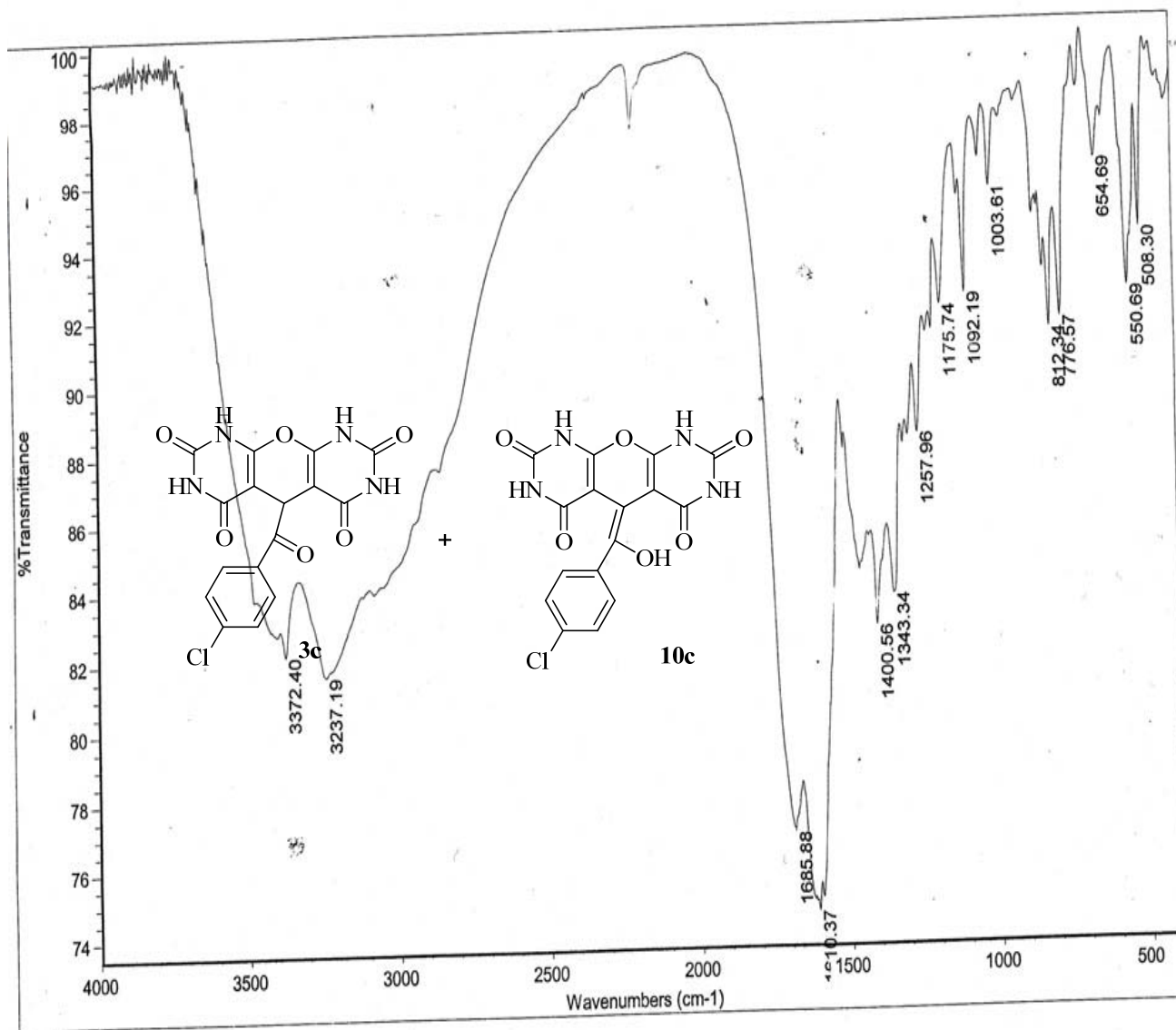
Current Data Parameters
 NAME Mirmaz
 EXPNO 286
 PROCNO 1

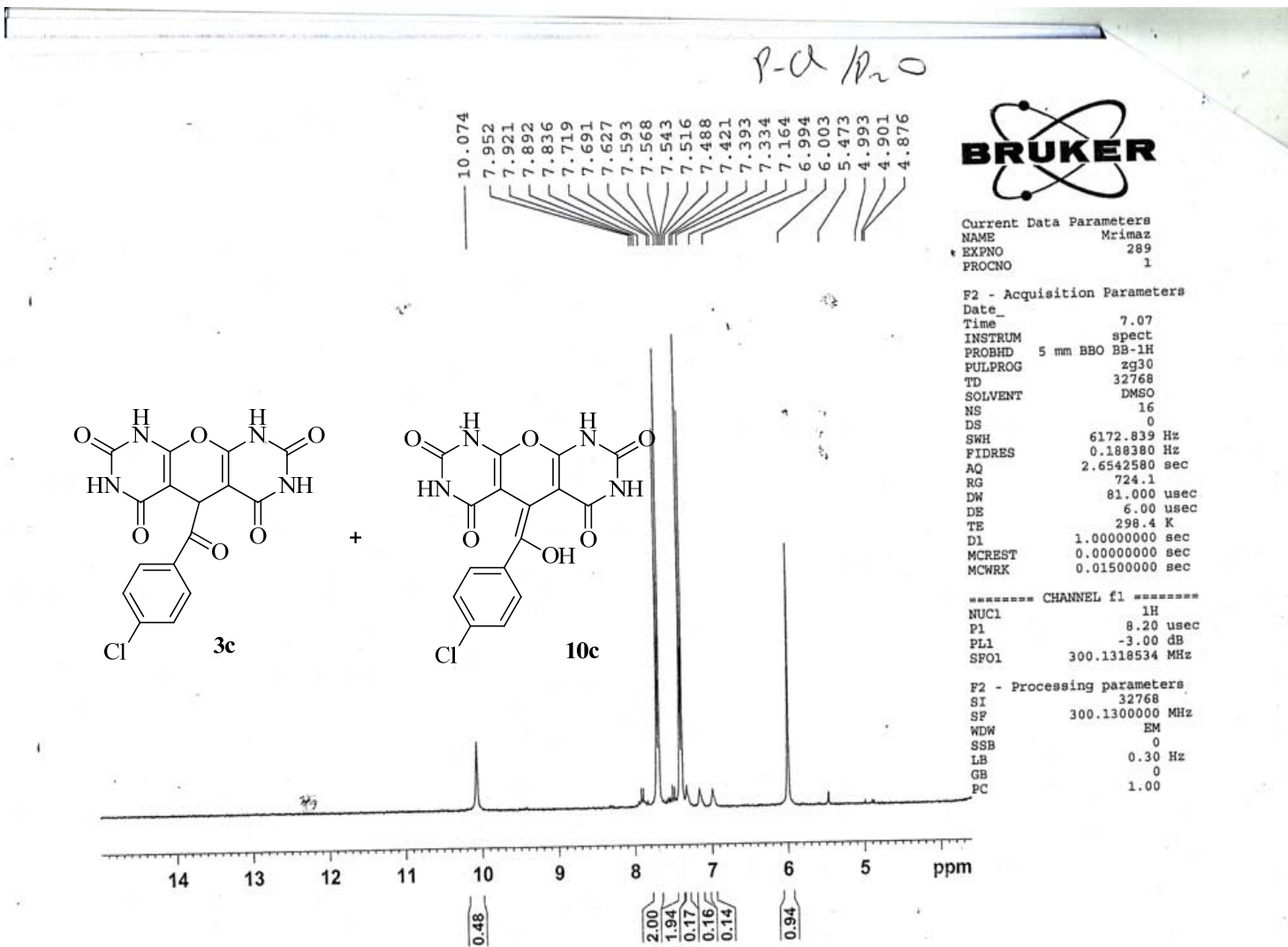
F2 - Acquisition Parameters
 Date_
 Time 20.14
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg
 TD 65536
 SOLVENT CDCl3
 NS 12000
 DS 0
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 4096
 DW 27.800 usec
 DE 6.00 usec
 TE 673.2 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 MCREST 0.0000000 sec
 MCWRK 0.0150000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 6.30 usec
 PL1 -5.00 dB
 SFO1 75.4752953 MHz

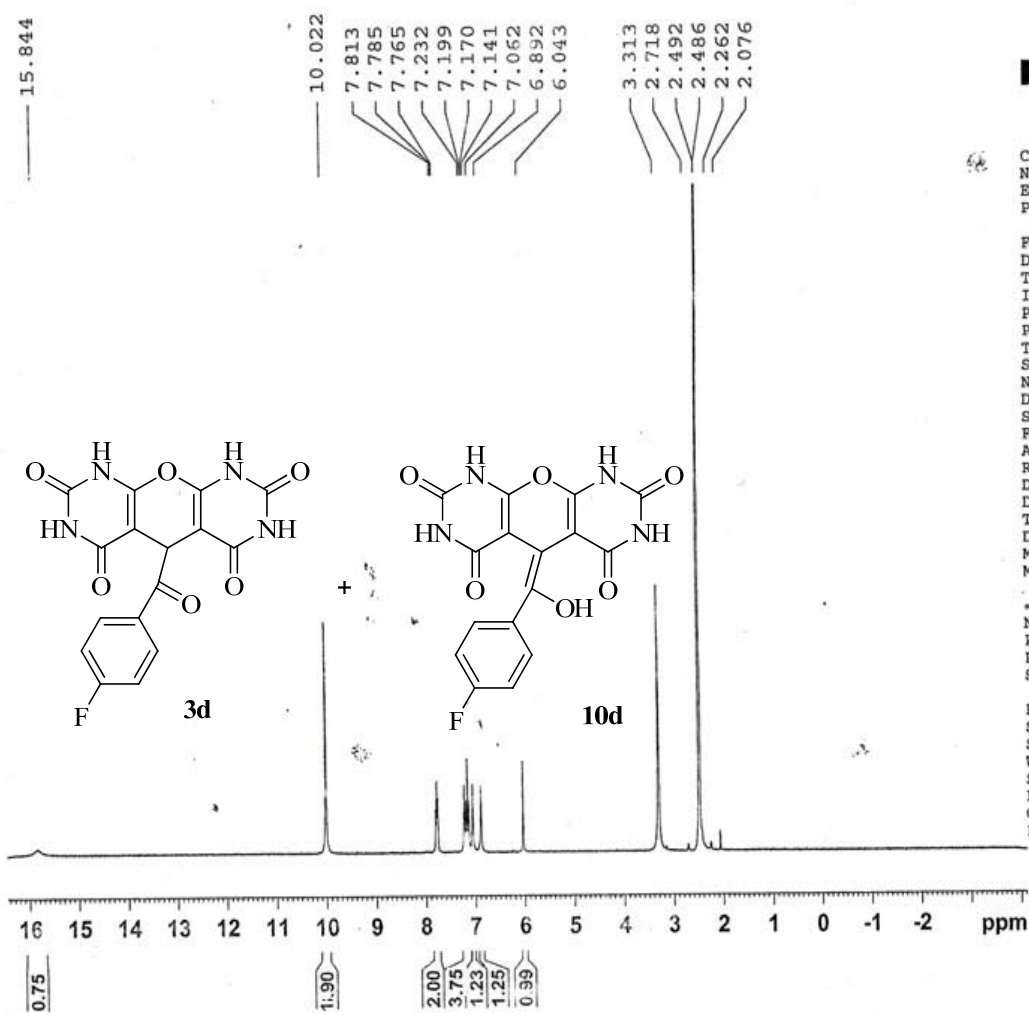
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 77.00 usec
 PL2 -3.00 dB
 PL12 17.00 dB
 PL13 17.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





P-F

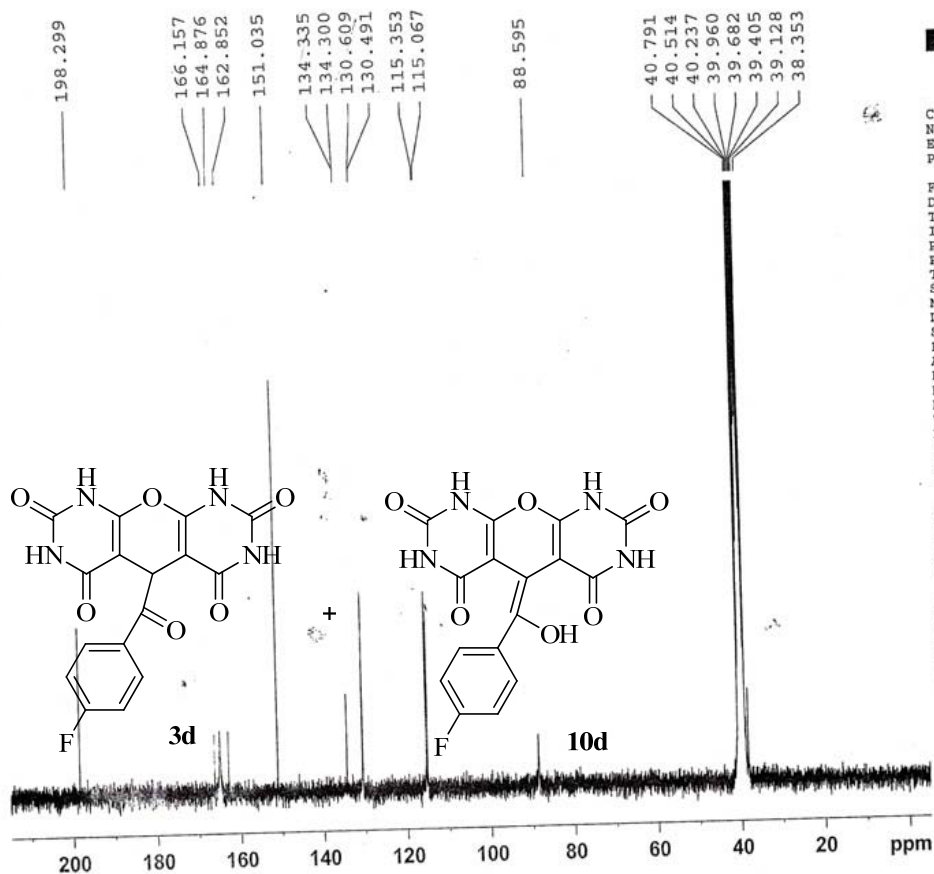


Current Data Parameters
 NAME Mrimaz
 EXPNO 287
 PROCNO 1

F2 - Acquisition Parameters
 Date
 Time 5.52
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 8
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 812.7
 DW 81.000 usec
 DE 6.00 usec
 TE 673.2 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



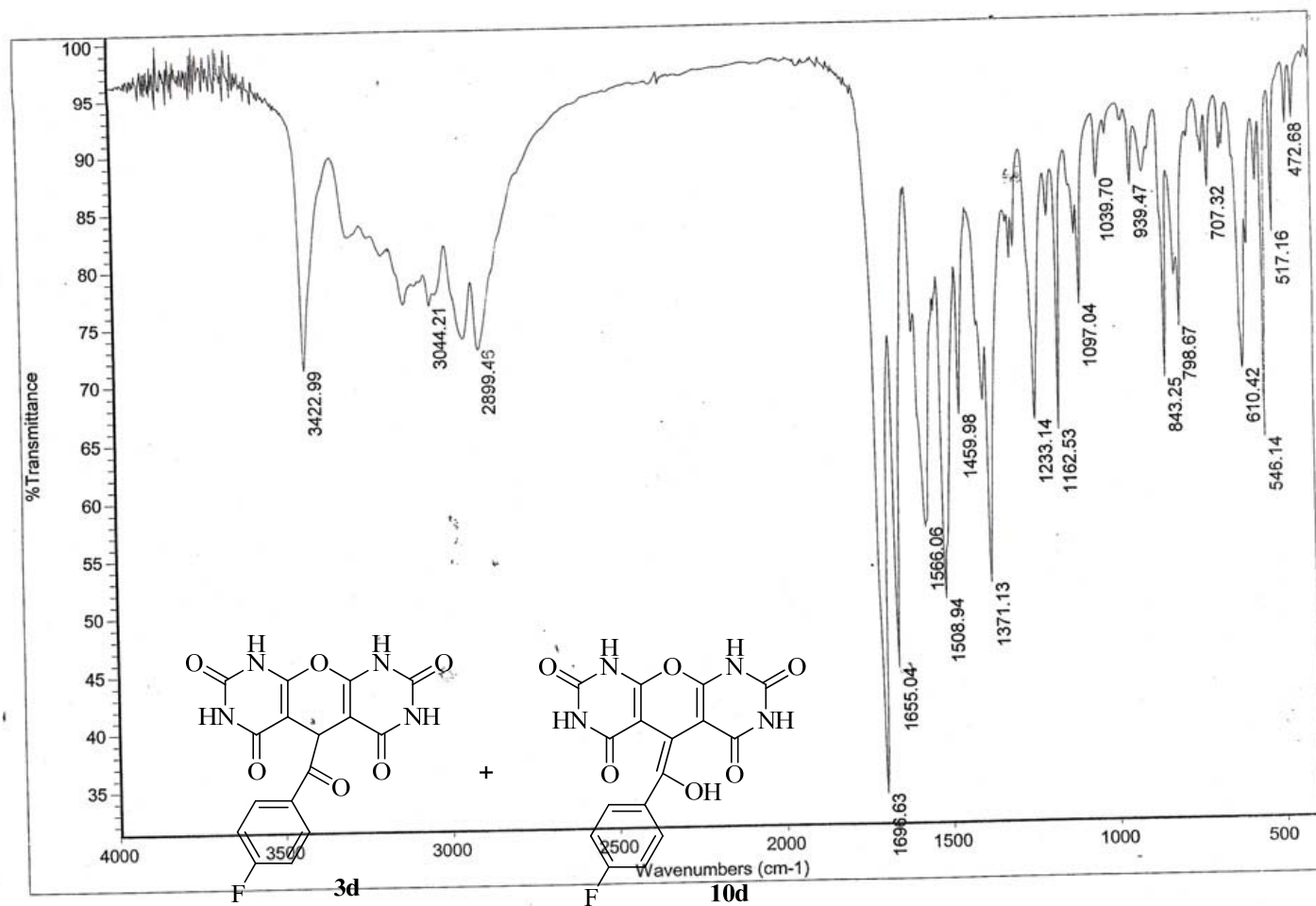
Current Data Parameters
 NAME Mrimaz
 EXPNO 306
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 16.54
 Time spect
 INSTRUM 5 mm BBO BB-1H
 PROBHD zgpg
 TD 65536
 SOLVENT CDCl3
 NS 10000
 DS 0
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 4096
 DW 27.800 usec
 DE 6.00 usec
 TE 673.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 6.30 usec
 PL1 -5.00 dB
 SFO1 75.4752953 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 77.00 usec
 PL2 -3.00 dB
 PL12 17.00 dB
 PL13 17.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Rome

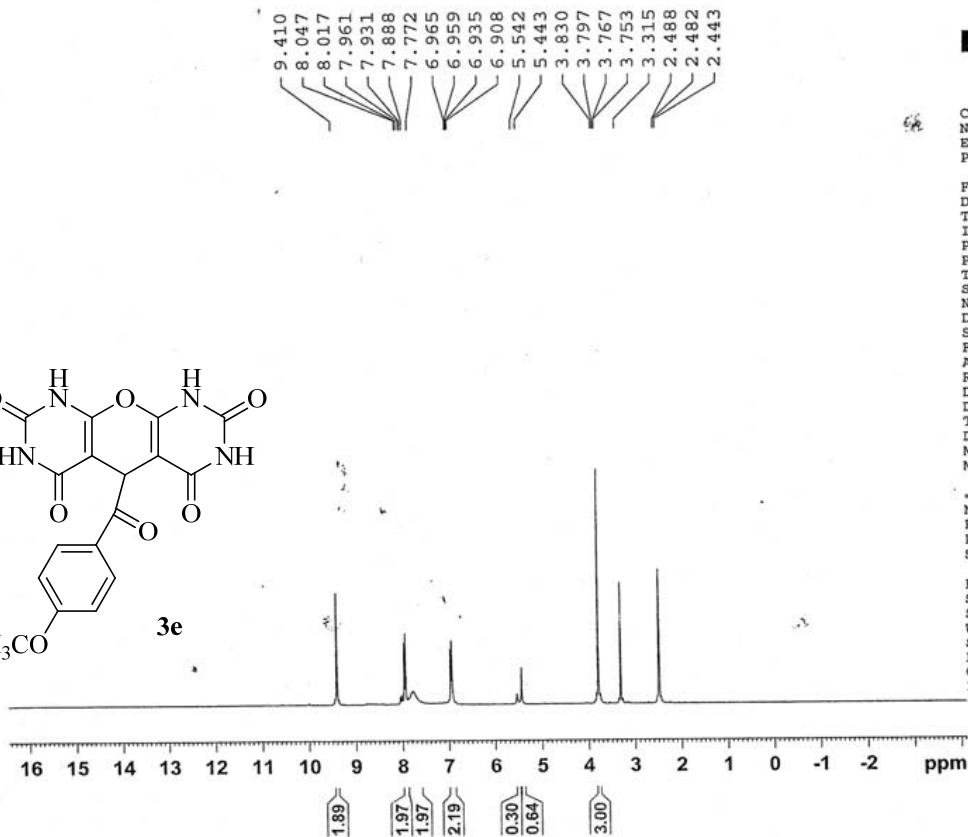
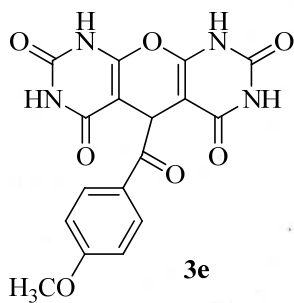


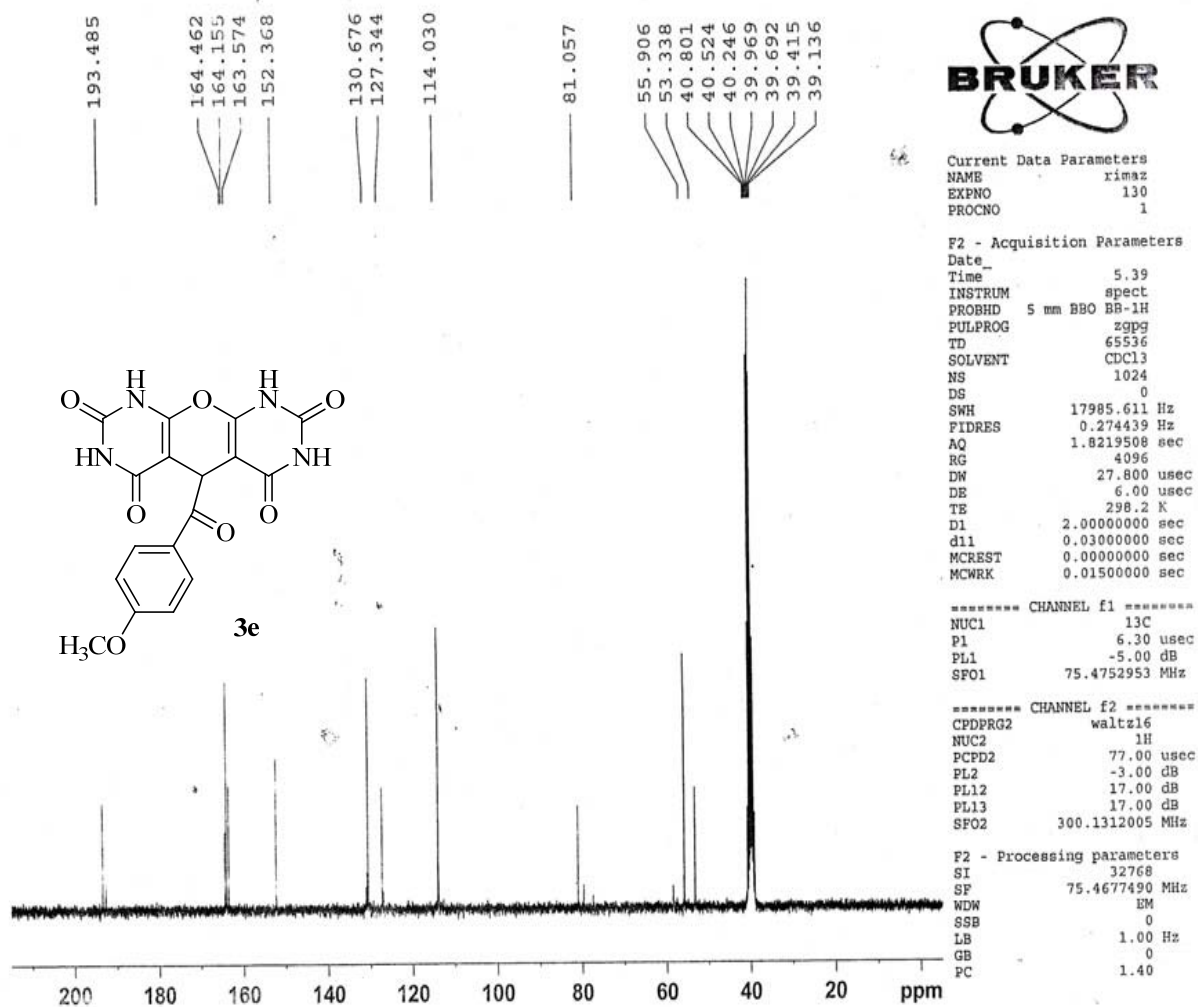
Current Data Parameters
 NAME rimaz
 EXPNO 129
 PROCNO 1

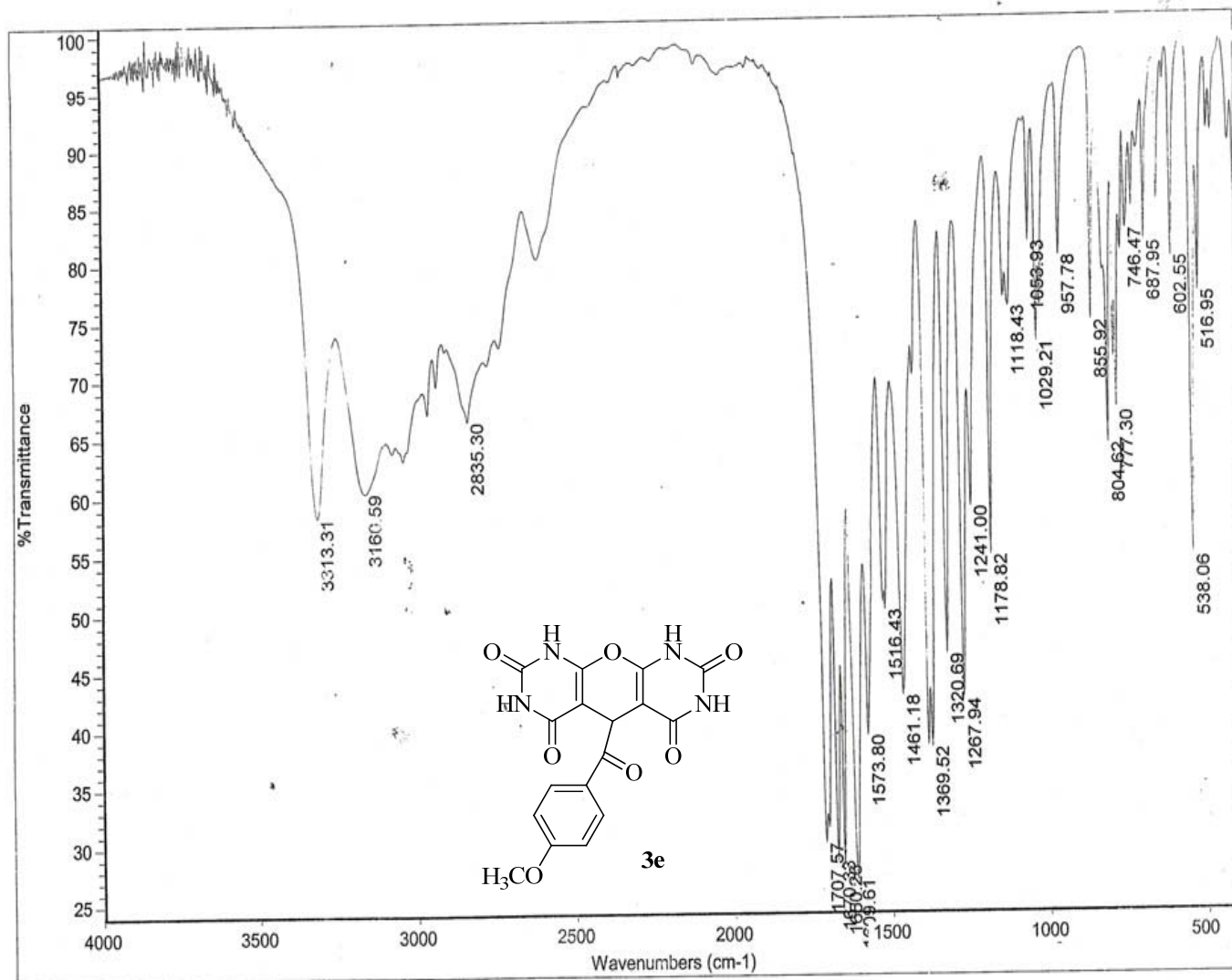
F2 - Acquisition Parameters
 Date_ 4.29
 Time 4.29
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 287.4
 DW 81.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 8.20 usec
 PL1 -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00







Romey D. S



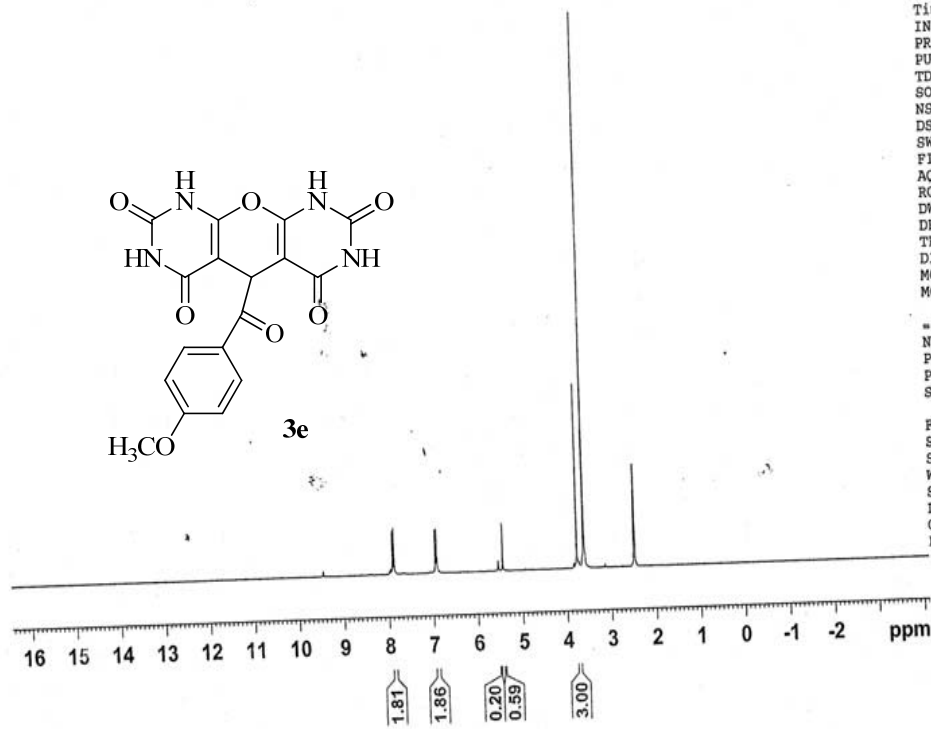
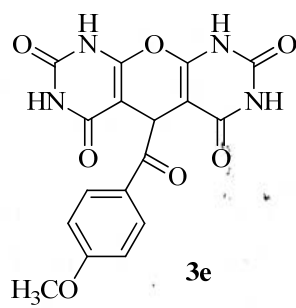
Current Data Parameters
 NAME rimaz
 EXPNO 131
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 6.15
 Time_ spect
 INSTRUM 5 mm BBO BB-1H
 PROBHD zg30
 PULPROG 32768
 TD DMSO
 SOLVENT 8
 NS 0
 DS 6172.839 Hz
 SWH 0.188380 Hz
 FIDRES 2.6542580 sec
 AQ 287.4
 RG 81.000 usec
 DW 6.00 usec
 DE 298.2 K
 TE 1.00000000 sec
 D1 0.00000000 sec
 MCREST 0.01500000 sec
 MCWRK

----- CHANNEL f1 -----
 NUC1 1H
 P1 8.20 usec
 PLL -3.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

7.908
 7.879
 6.949
 6.942
 6.919
 6.910
 5.542
 5.442
 3.773
 3.661
 3.621
 3.586
 2.491
 2.486
 2.480



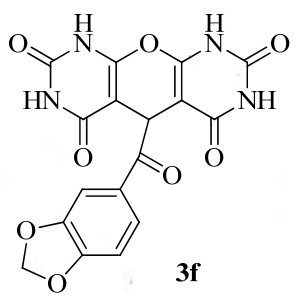
methylated xcp

9.401
9.375
7.698
7.671
7.627
7.621
7.599
7.594
7.571
7.483
7.478
6.969
6.952
6.942
6.924
6.091
6.088
6.045
5.477
5.400
3.310
2.559
2.502
2.497
2.490
2.485
2.414



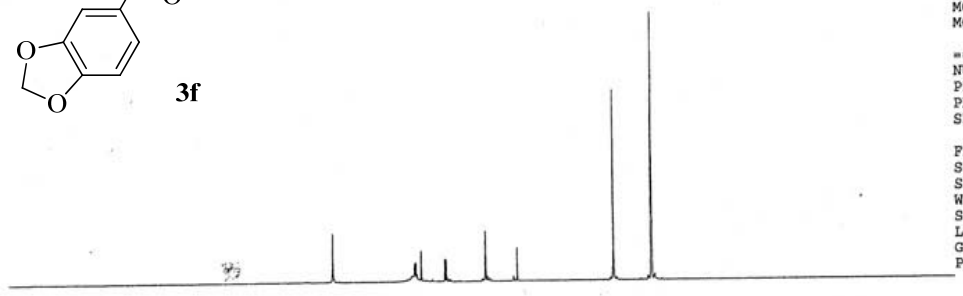
Current Data Parameters
NAME rimaz
EXPNO 132
PROCNO 1

F2 - Acquisition Parameters
Date_
Time 7.04
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 16
DS 0
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 724.1
DW 81.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.0000000 sec
MCREST 0.0000000 sec
MCWRK 0.0150000 sec



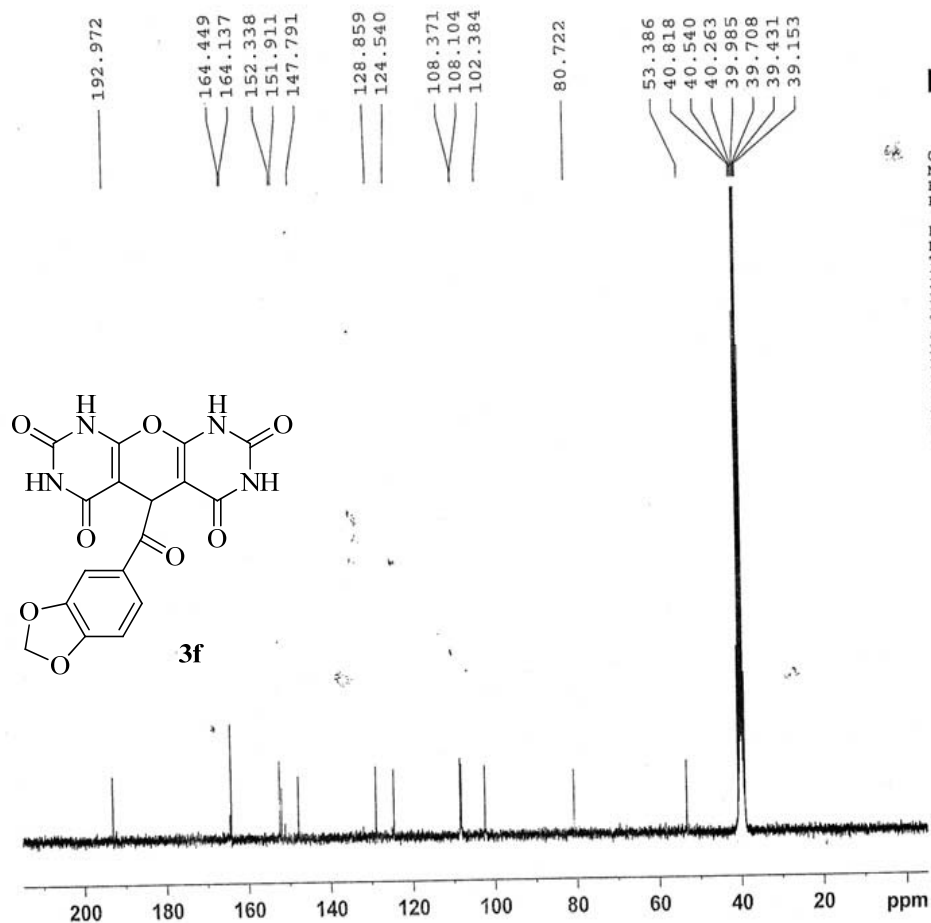
***** CHANNEL f1 *****
NUC1 1H
P1 8.20 usec
PL1 -3.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2 ppm

1.93
3.19
0.99
1.22
2.00
0.19
0.75



Current Data Parameters
 NAME rimaz
 EXPNO 133
 PROCNO 1

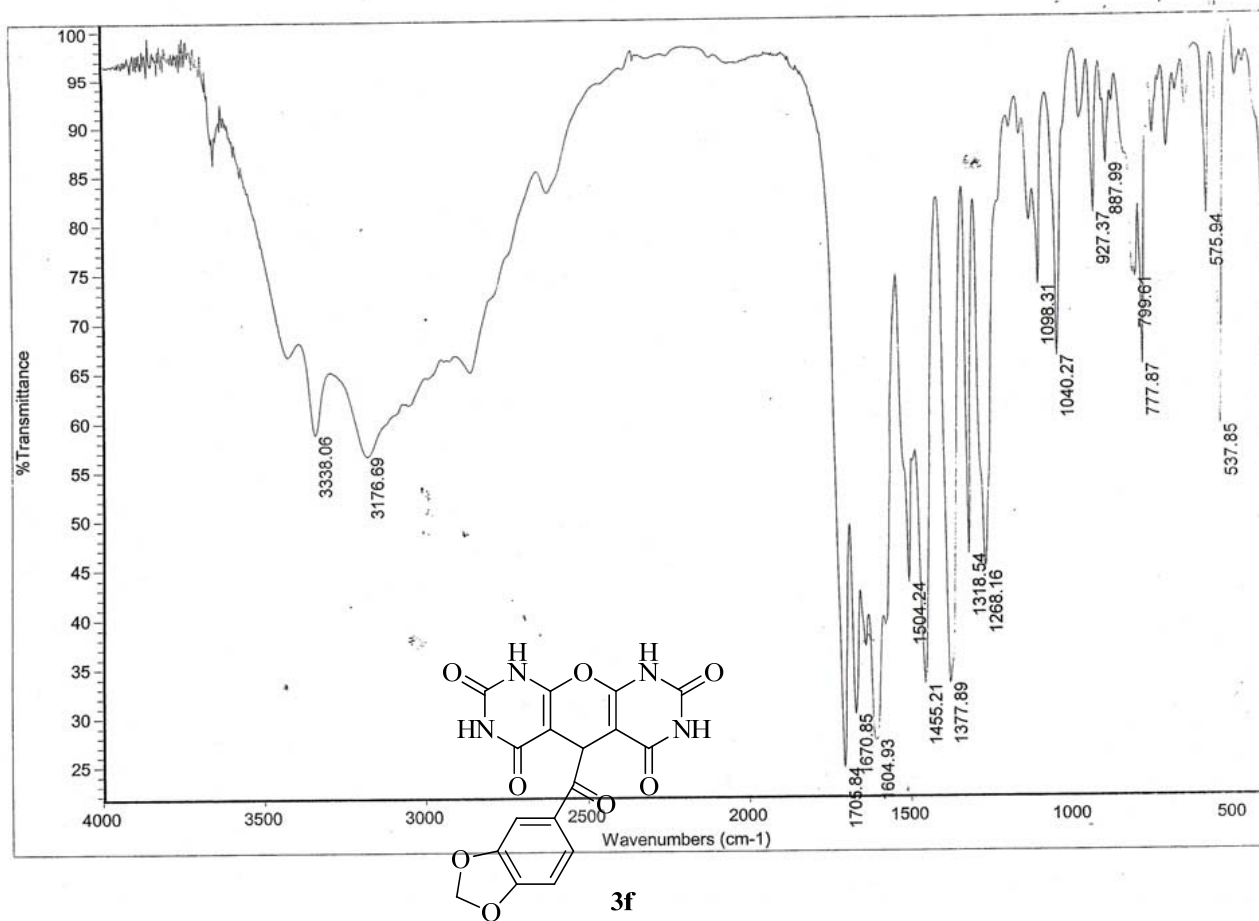
F2 - Acquisition Parameters

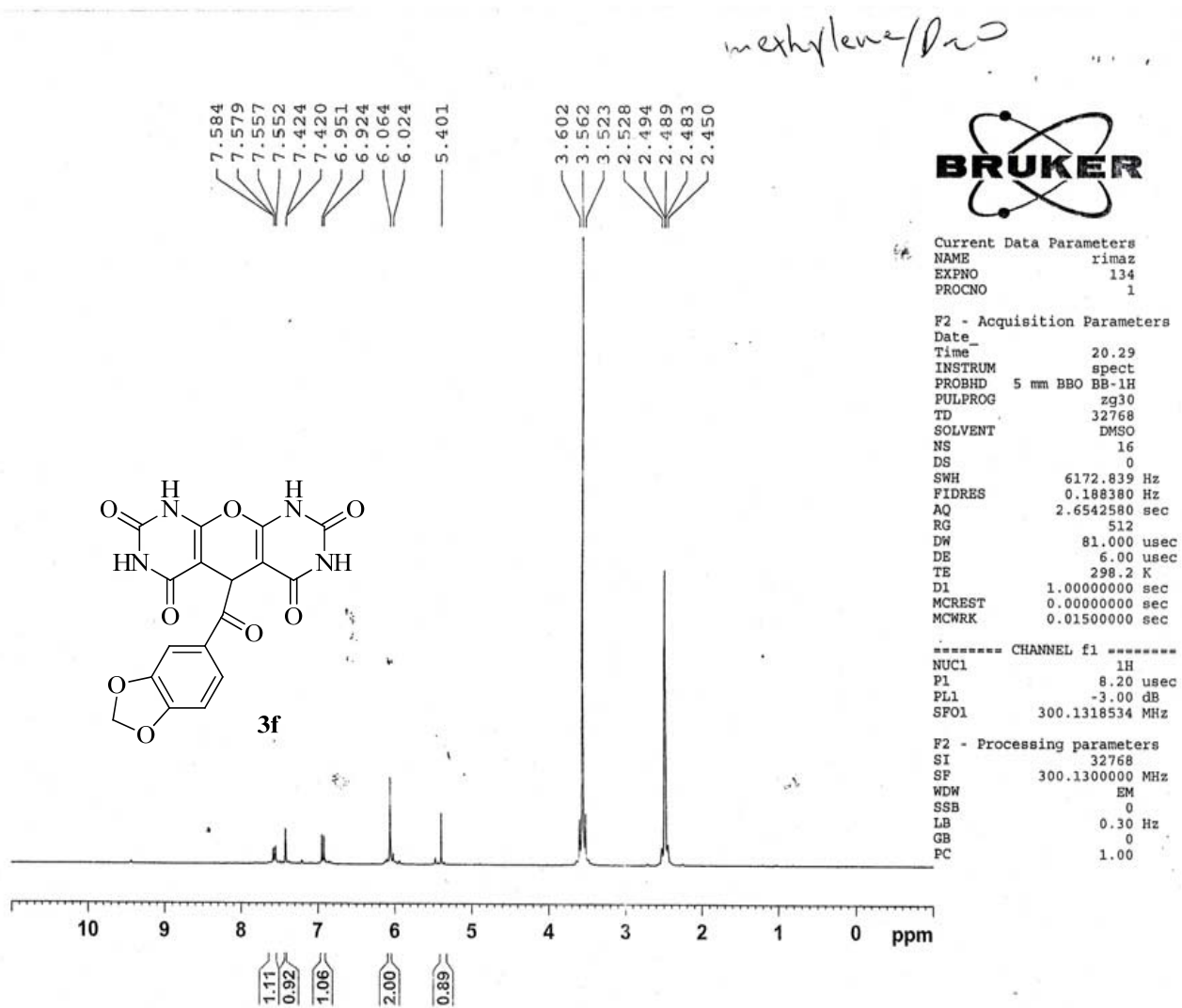
Date_ 10.31
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg
 TD 65536
 SOLVENT CDCl3
 NS 3072
 DS 0
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 4096
 DW 27.800 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

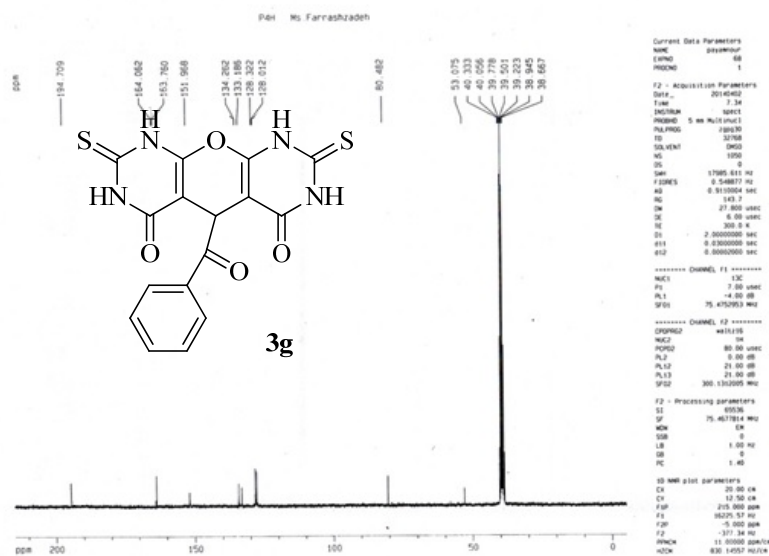
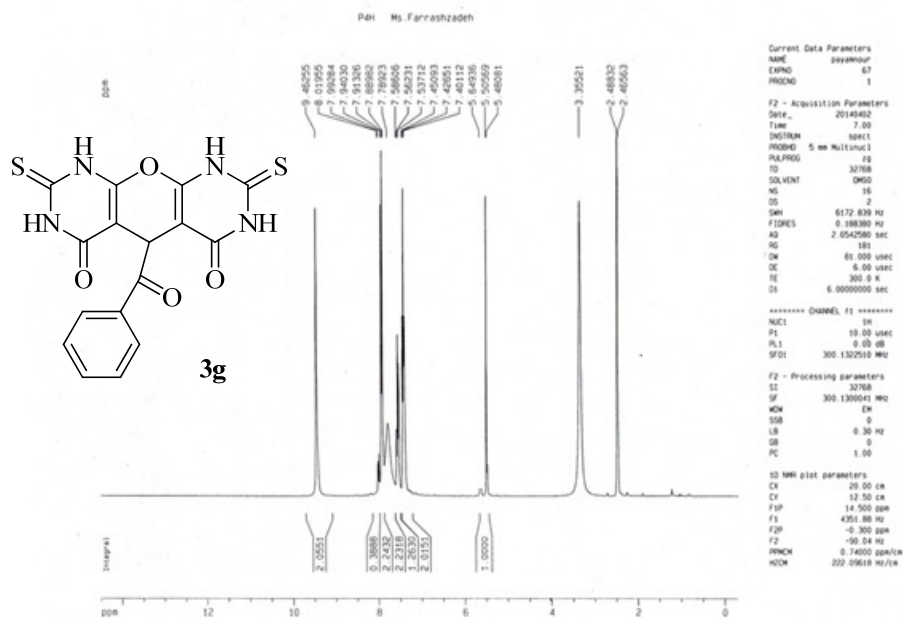
===== CHANNEL f1 =====
 NUC1 13C
 P1 6.30 usec
 PL1 -5.00 dB
 SFO1 75.4752953 MHz

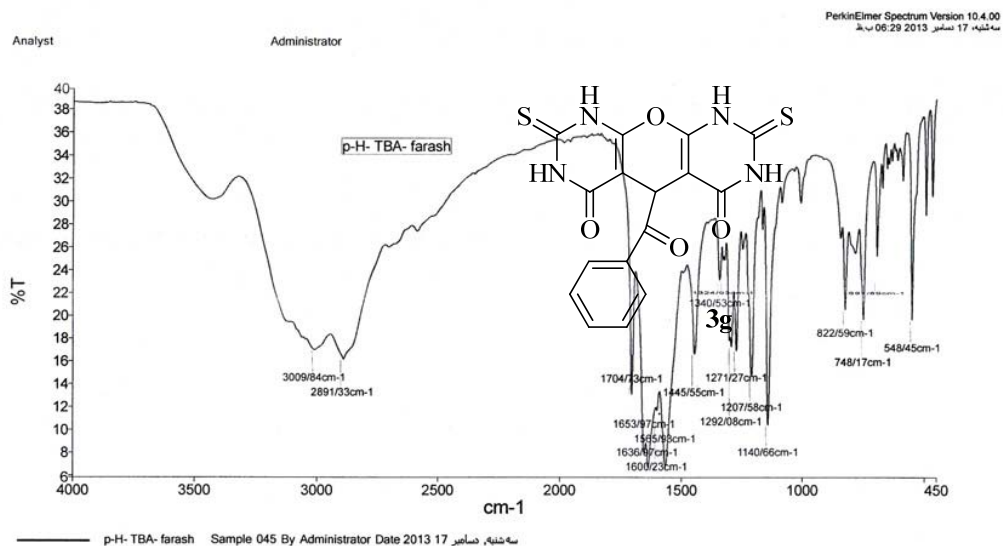
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 77.00 usec
 PL2 -3.00 dB
 PL12 17.00 dB
 PL13 17.00 dB
 SPO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

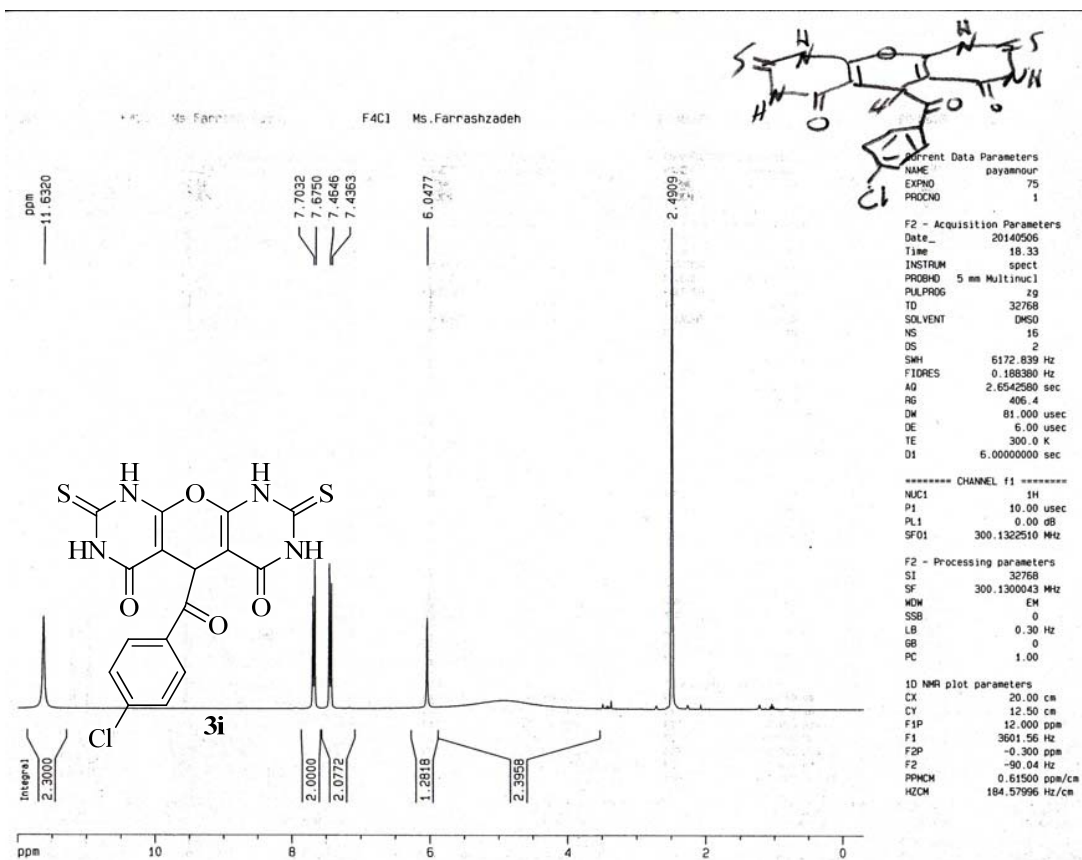


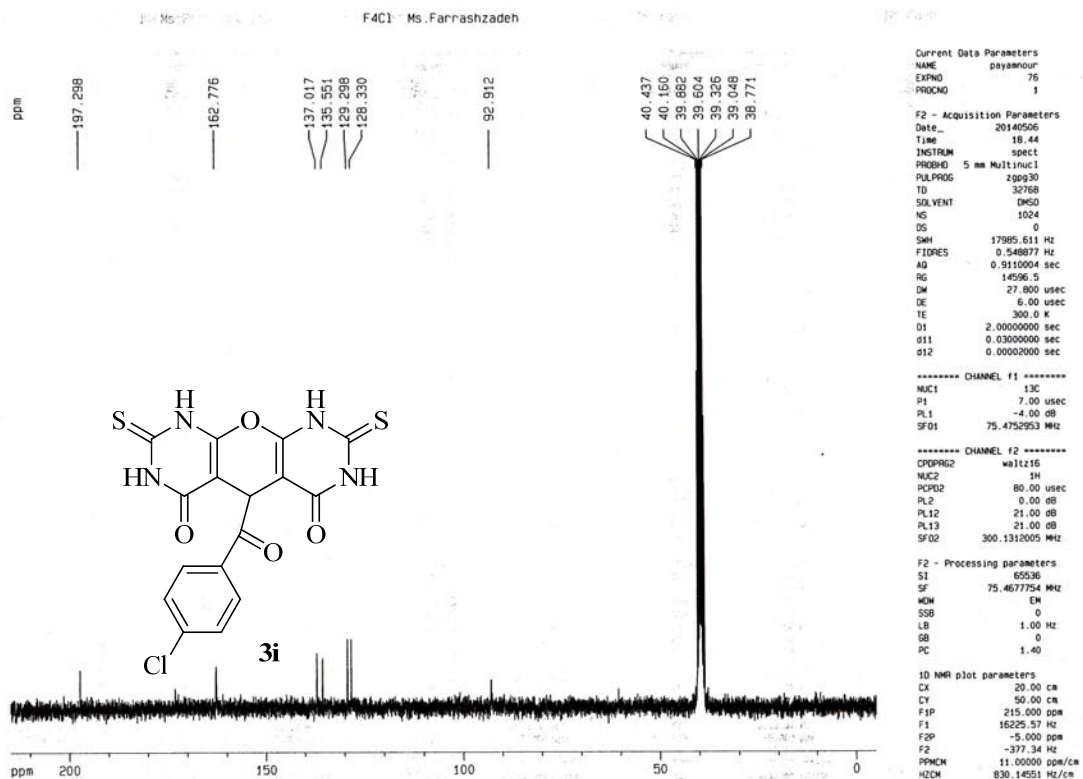


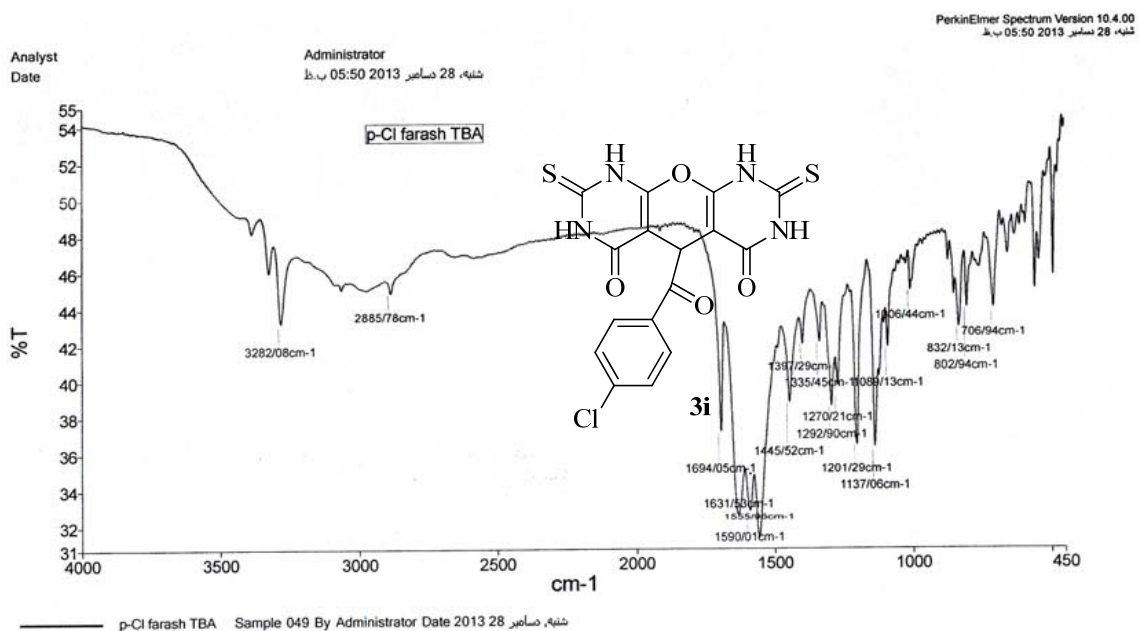




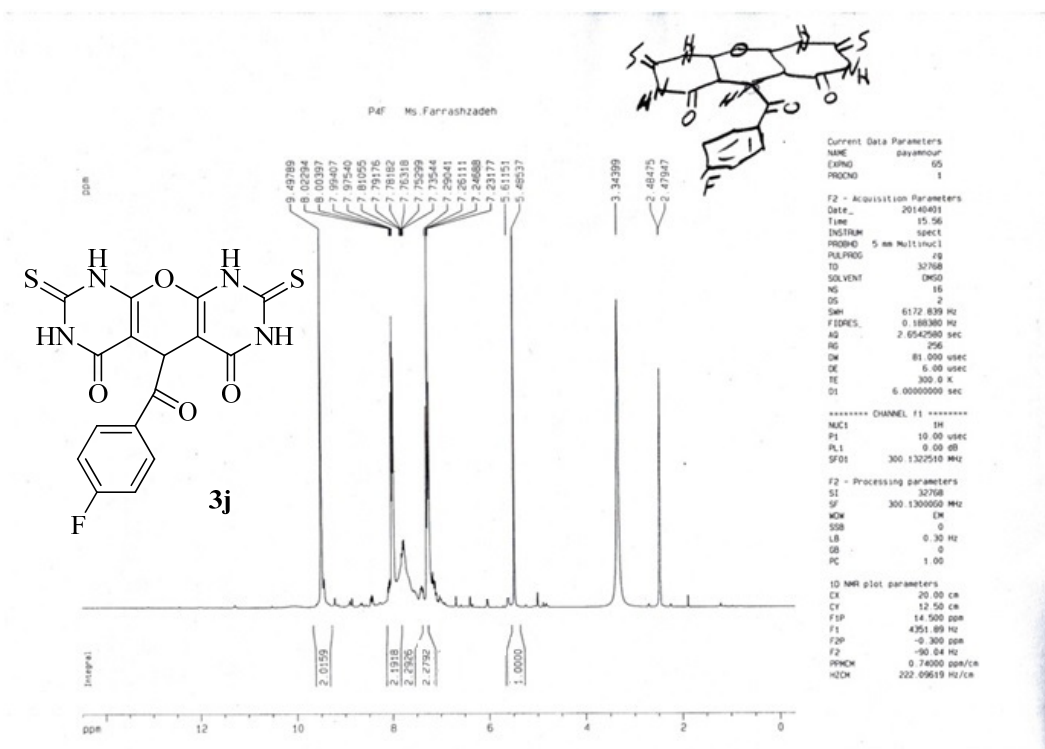
Source Spectra Results	
Spectrum Name	Administrator 45_1

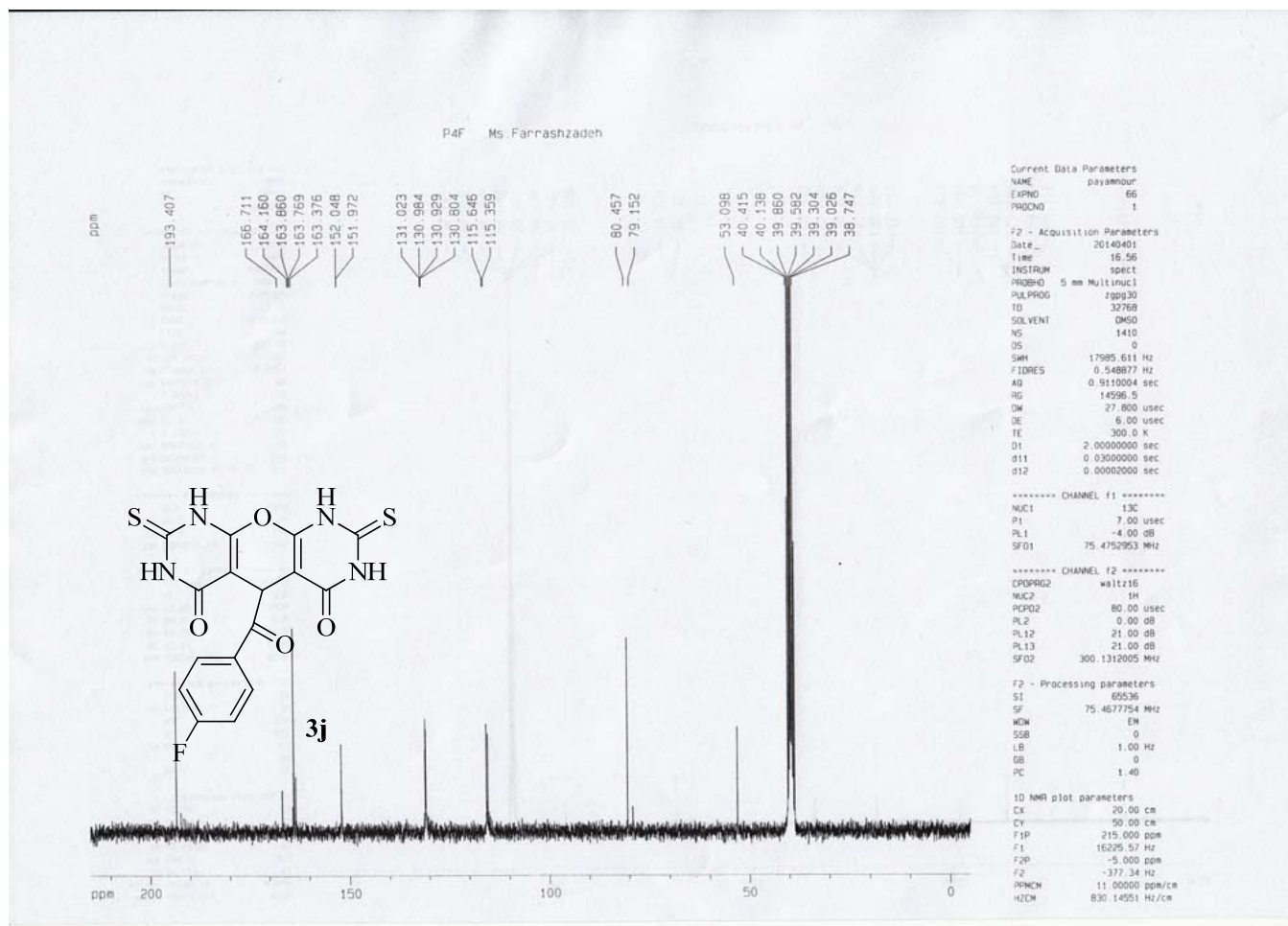


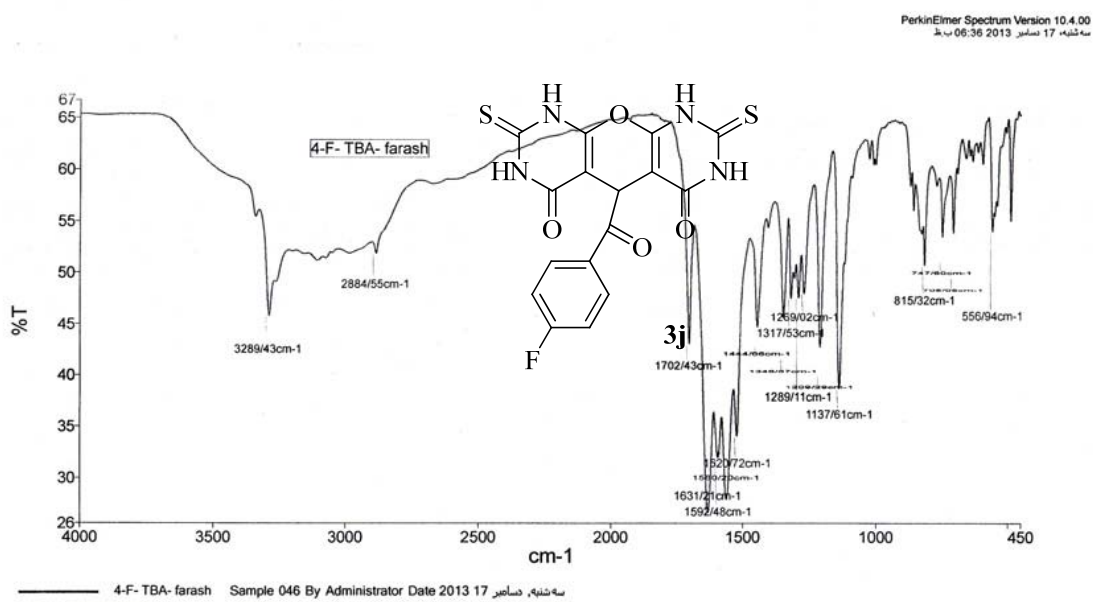




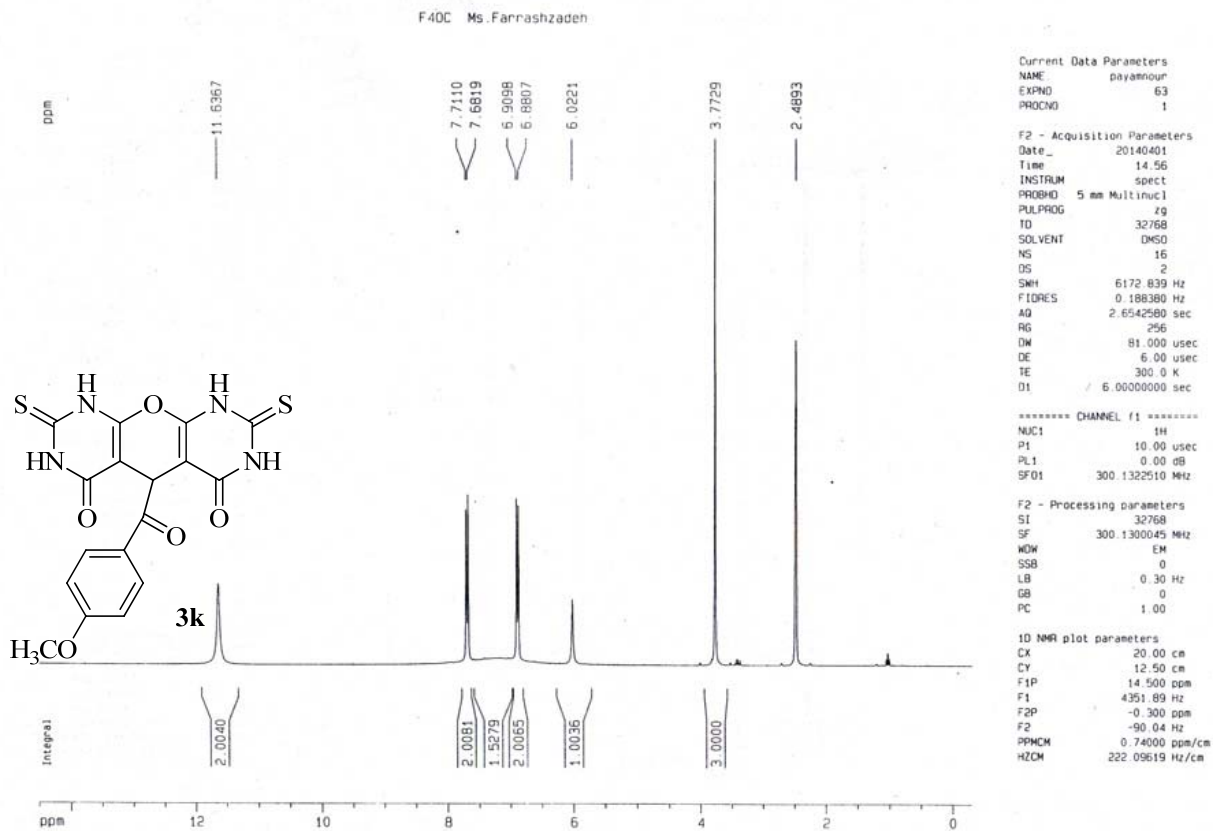
Source Spectra Results	
Spectrum Name	Administrator 49_1

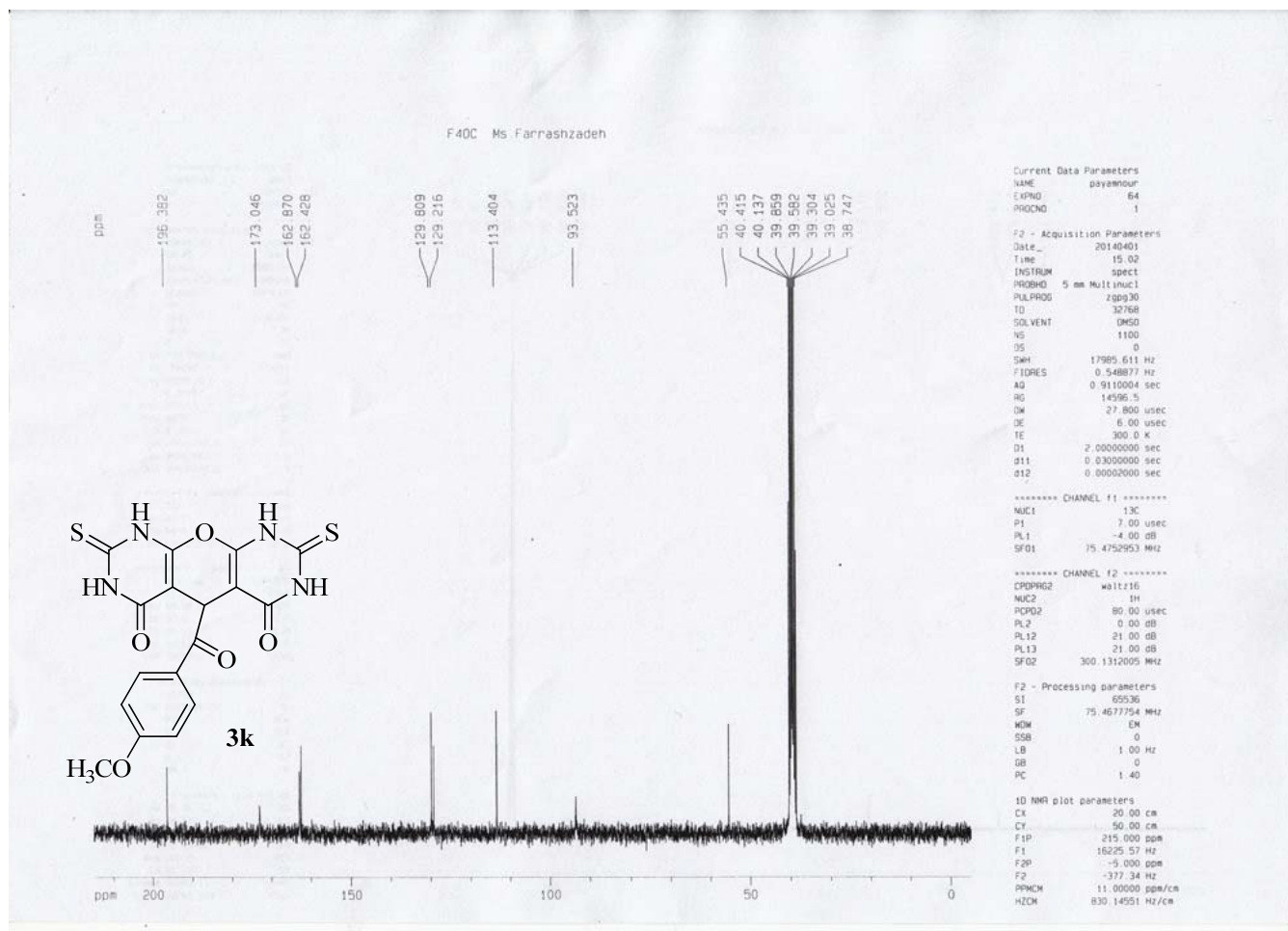


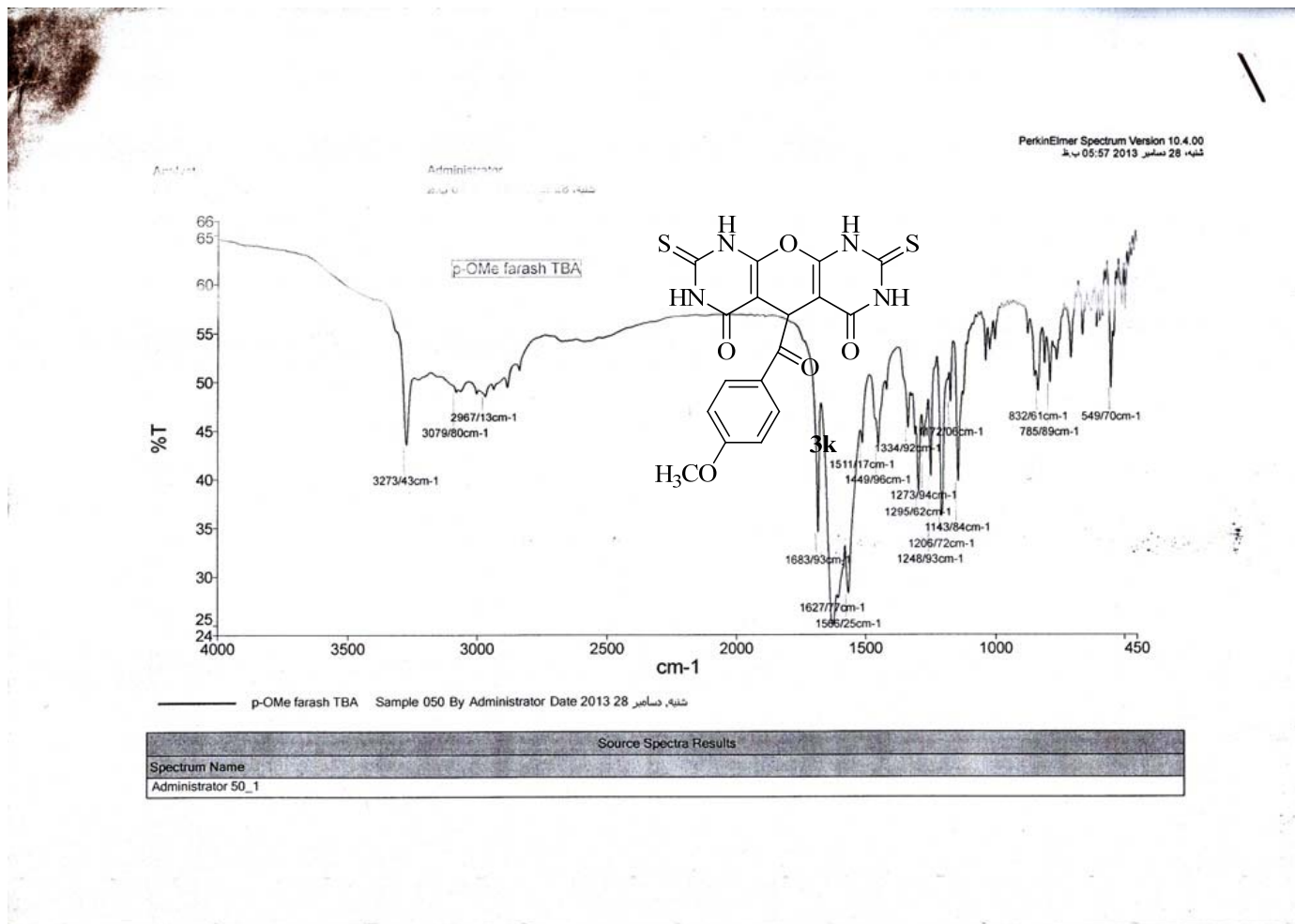


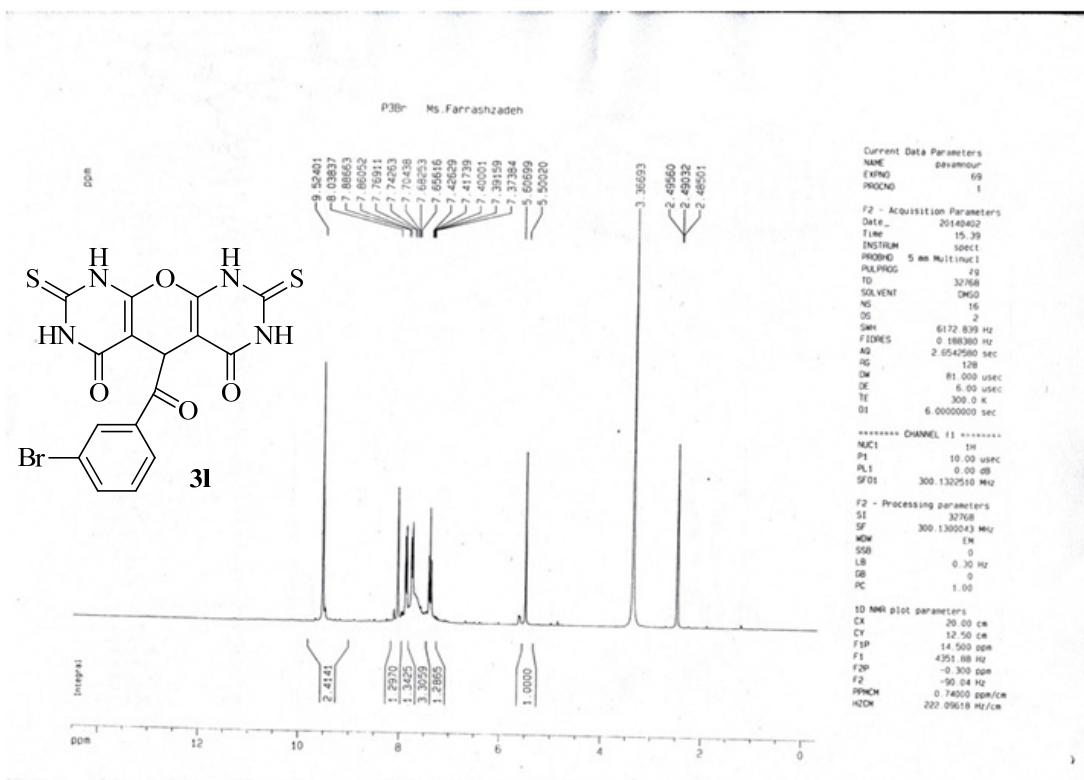


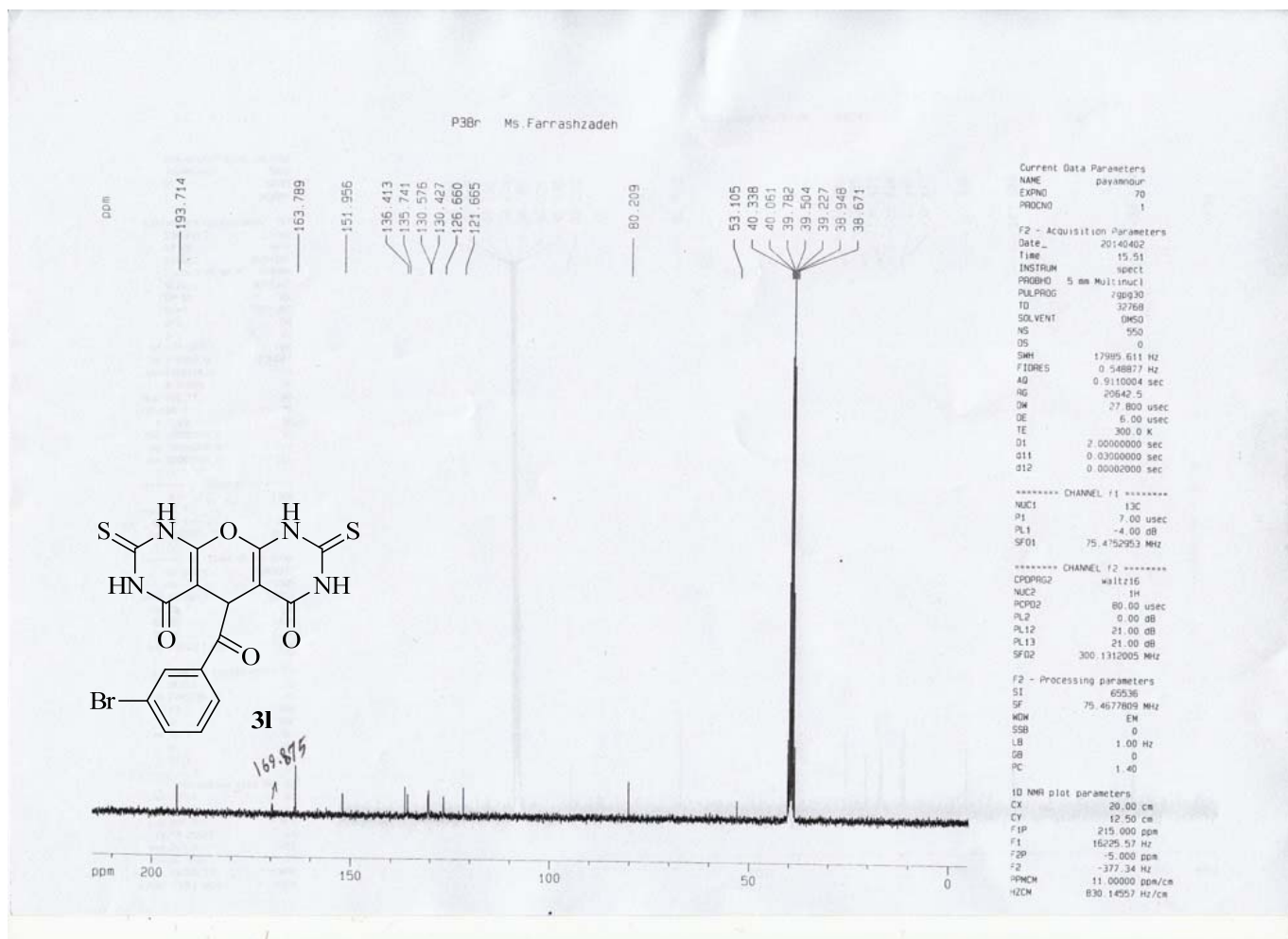
Source Spectra Results	
Spectrum Name	Administrator 46_1

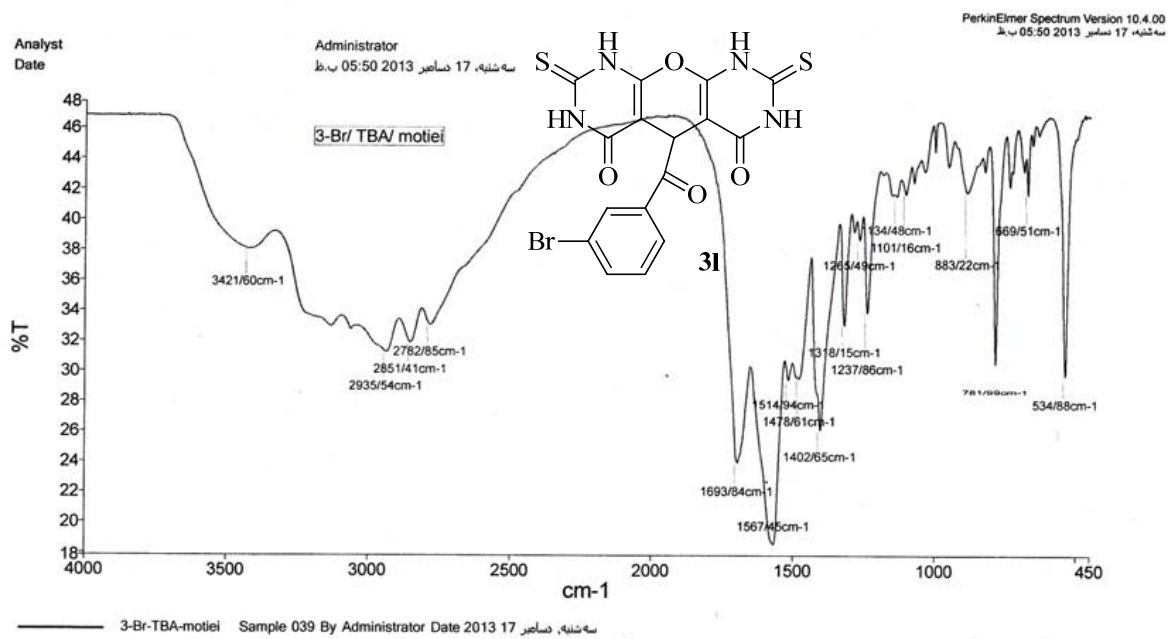












Source Spectra Results	
Spectrum Name	Administrator 39_1