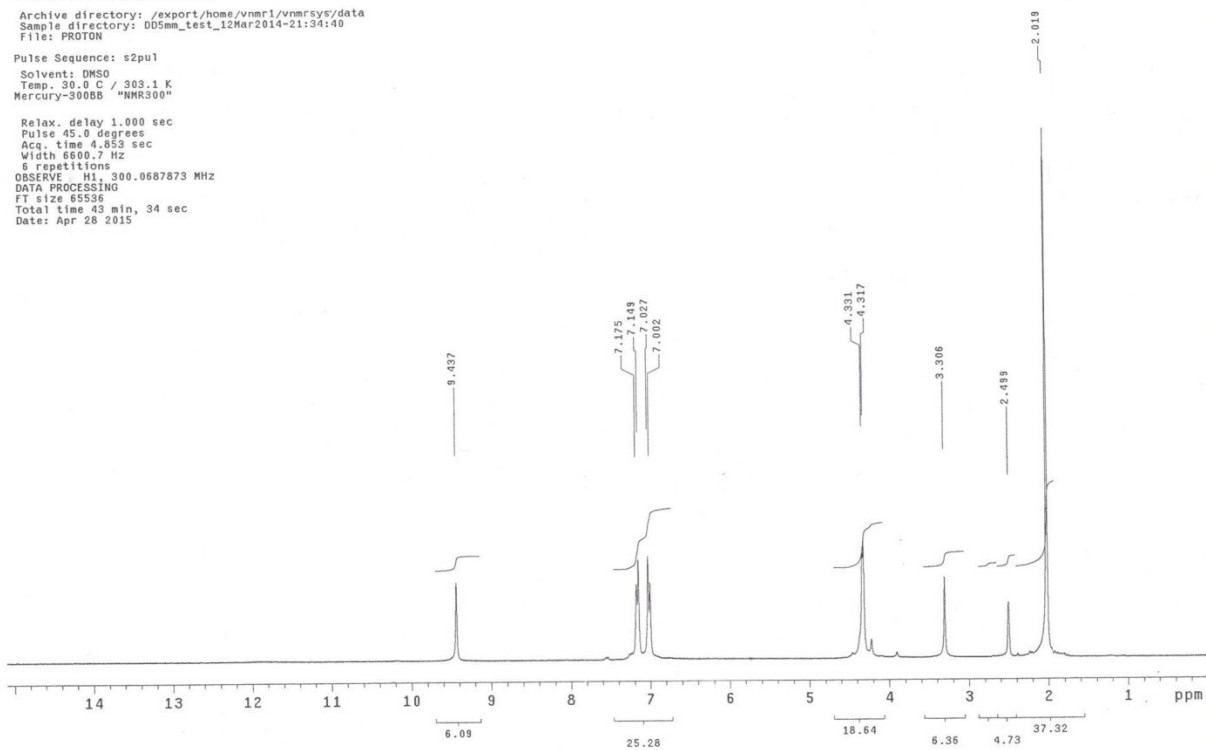
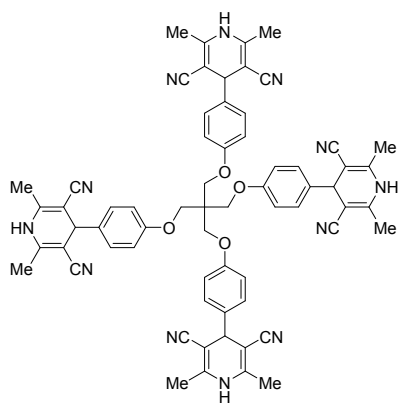


5a

EsmeeIAbdelshafy-AH22-DMSO-H
Archive directory: /export/home/vnmr1/vnmrsys/data
Sample directory: D05m_test_12Mar2014-21:34:40
File: PR0709
Pulse Sequence: s2pu1
Solvent: DMSO
Temp: 30.0 C / 303.1 K
Mercury-300SB "NMR300"
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 4.853 sec
Width 6600.7 Hz
6 repetitions
OBSERVE H1, 300.0687873 MHz
DATA PROCESSING
FT size 65536
Total time 43 min, 34 sec
Date: Apr 28 2015

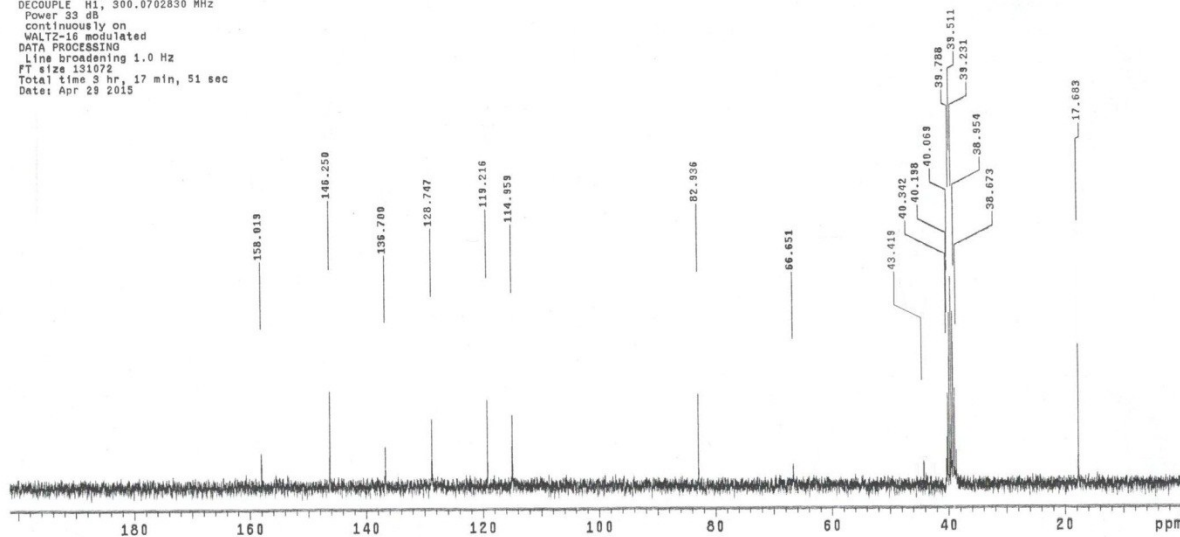


¹H NMR spectrum of compound 5a

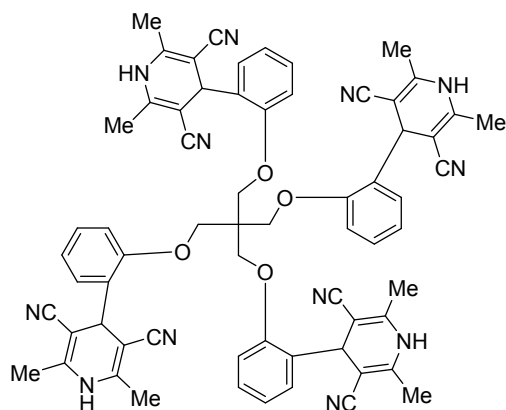


5a

IsmaeelAbdulahafy-A22-DMSO-13C
 Archive directory: /export/home/vnmr1/vnmrns/data
 Sample directory: DD5mm_test_12Mar2014-21:34:40
 File: PROTON
 Pulse Sequence: s2pu1
 Solvent: DMSO
 Temp. 30.0 C / 303.1 K
 Mercury-300BB "NMR300"
 Pulse 45.0 degrees
 Acq. time 1.815 sec
 Width 18761.7 Hz
 868 repetitions
 OBSERVE C13, 75.4523954 MHz
 DECOUPLE H1, 300.0702830 MHz
 Power 33 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 131072
 Total time 3 hr, 17 min, 51 sec
 Date: Apr 29 2015



¹³CNMR spectrum of compound 5a



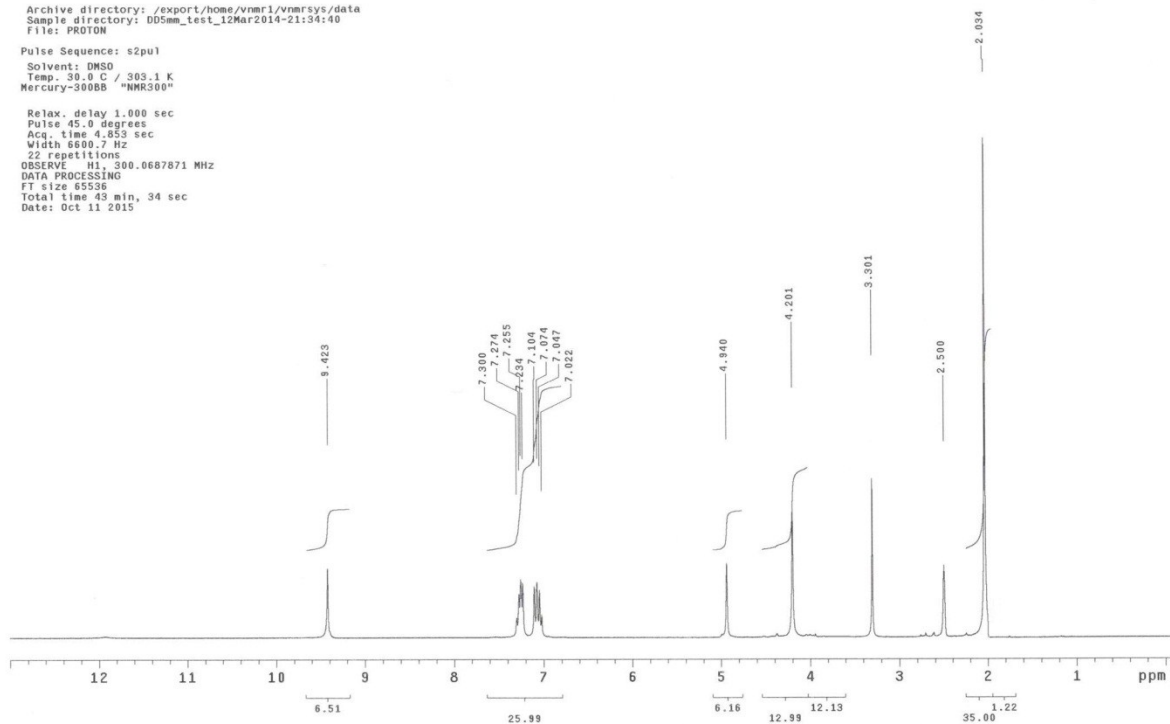
5b

AhmadFathy-A21-DMSO-H1

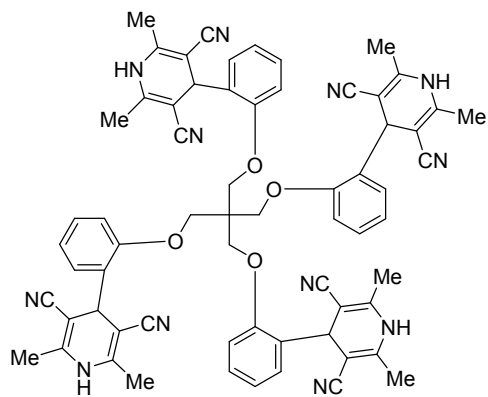
Archive directory: /export/home/vnmr1/vnmrsys/data
 Sample directory: D05mm_Test_12Mar2014-21:34:40
 File: PROTON

Pulse Sequence: s2pu1
 Solvent: DMSO
 Temp: 30.0 C / 303.1 K
 Mercury-300BB "NMR300"

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 4.853 sec
 Width 6600.7 Hz
 22 repetitions
 OBSERVE H1, 300.0687871 MHz
 DATA PROCESSING
 FI size 85536
 Total time 43 min, 34 sec
 Date: Oct 11 2015



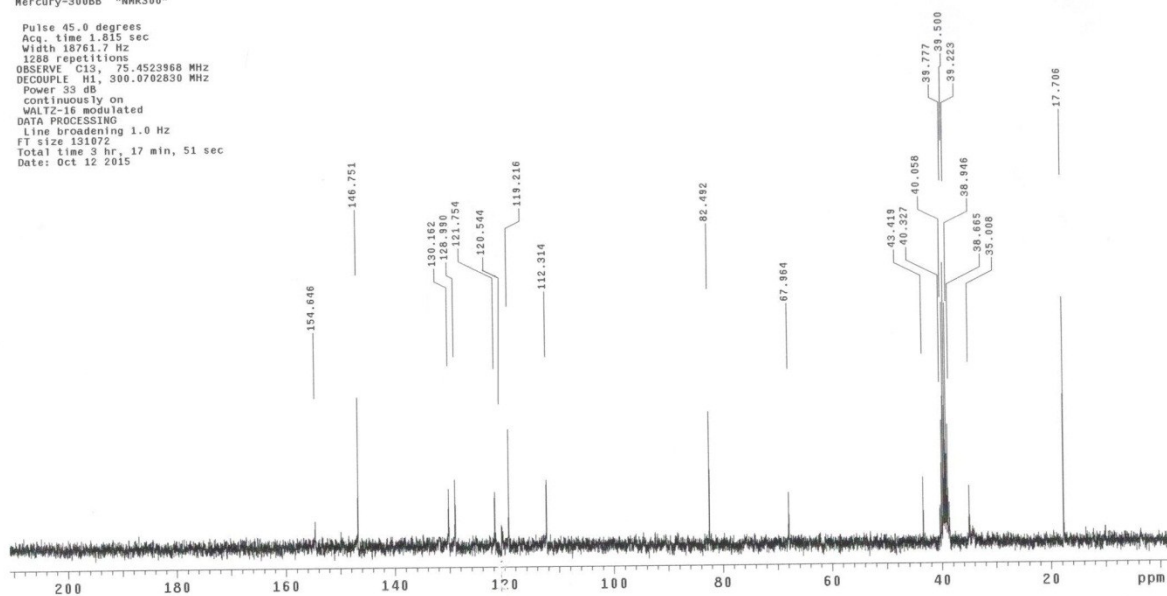
¹H NMR spectrum of compound 5b



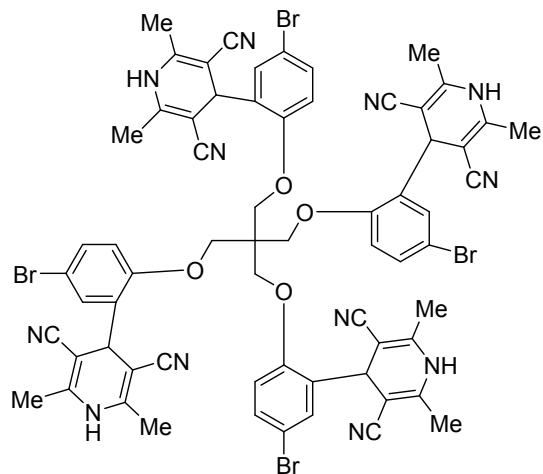
5b

AhmadFathy-A21-DMSO-C13
 Archive directory: /export/home/vnmr1/vnmrsys/data
 Sample directory: DD5mm_test_12Mar2014-21:34:40
 File: PROTON
 Pulse Sequence: s2pul
 Solvent: DMSO
 Temp: 30.0 C / 303.1 K
 Mercury-300BS "NMR300"

Pulse 45.0 degrees
 Acq. time 1.815 sec
 Width 18761.7 Hz
 1288 repetitions
 OBSERVE C13, 75.4523968 MHz
 DECOUPLE H1, 300.0702830 MHz
 Power 33 dB
 continuous by on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 131072
 Total time 3 hr, 17 min, 51 sec
 Date: Oct 12 2015

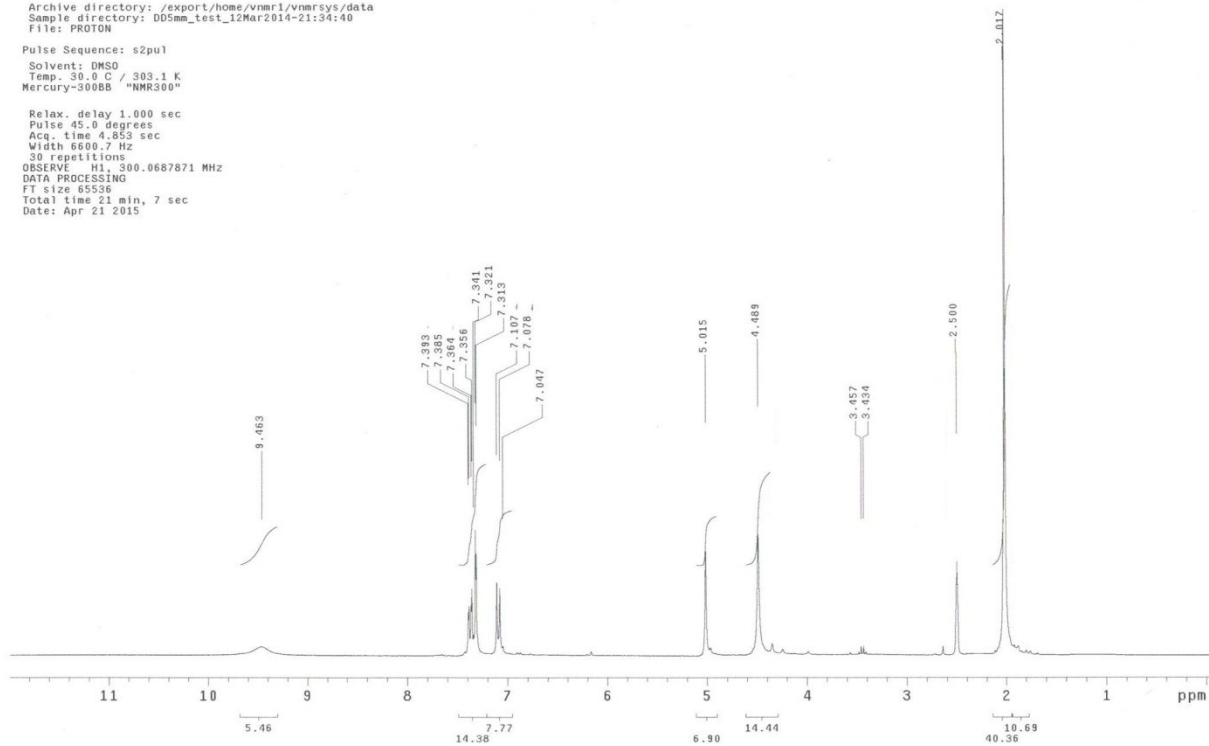


¹³C NMR spectrum of compound 5b

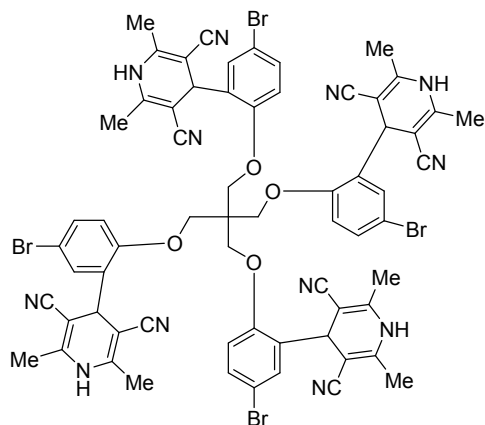


5c

AhmedHelmy-A3-DMSO-H1
 Archive directory: /export/home/vnmr1/vnmrsys/data
 Sample directory: D05mm_test_12Mar2014-21:34:40
 File: PROTON
 Pulse Sequence: s2pu1
 Solvent: DMSO
 Temp: 30.0 C / 303.1 K
 Mercury-300BB "NMR300"
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 4.553 sec
 Width 6600.7 Hz
 30 repetitions
 OBSERVE H1, 300.0687871 MHz
 DATA PROCESSING
 FT size 85536
 Total time 21 min, 7 sec
 Date: Apr 21 2015



¹H NMR spectrum of compound 5c

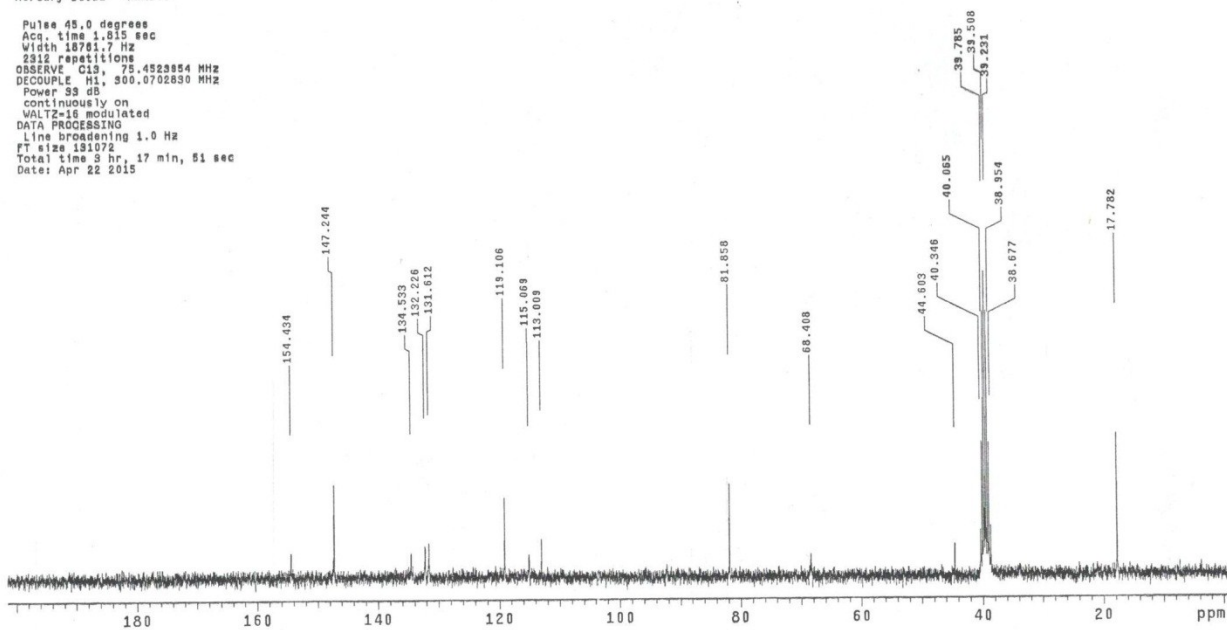


5c

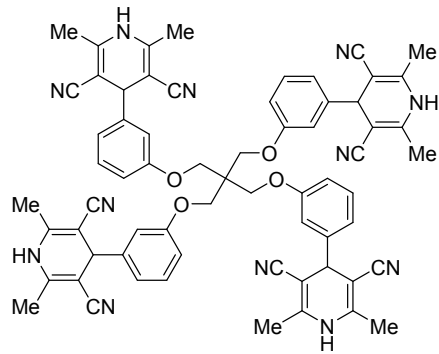
AhmadHelmy-A9-DMSO-G13
Archive directory: /export/home/vnmr1/vnmrsys/data
Sample directory: DD5mm_test_12Mar2014-21:54:40
File: PROTON

Pulse Sequence: s2pu1
Solvent: DMSO
Temp: 30.0 C / 303.1 K
Mercury-300SB "NMR300"

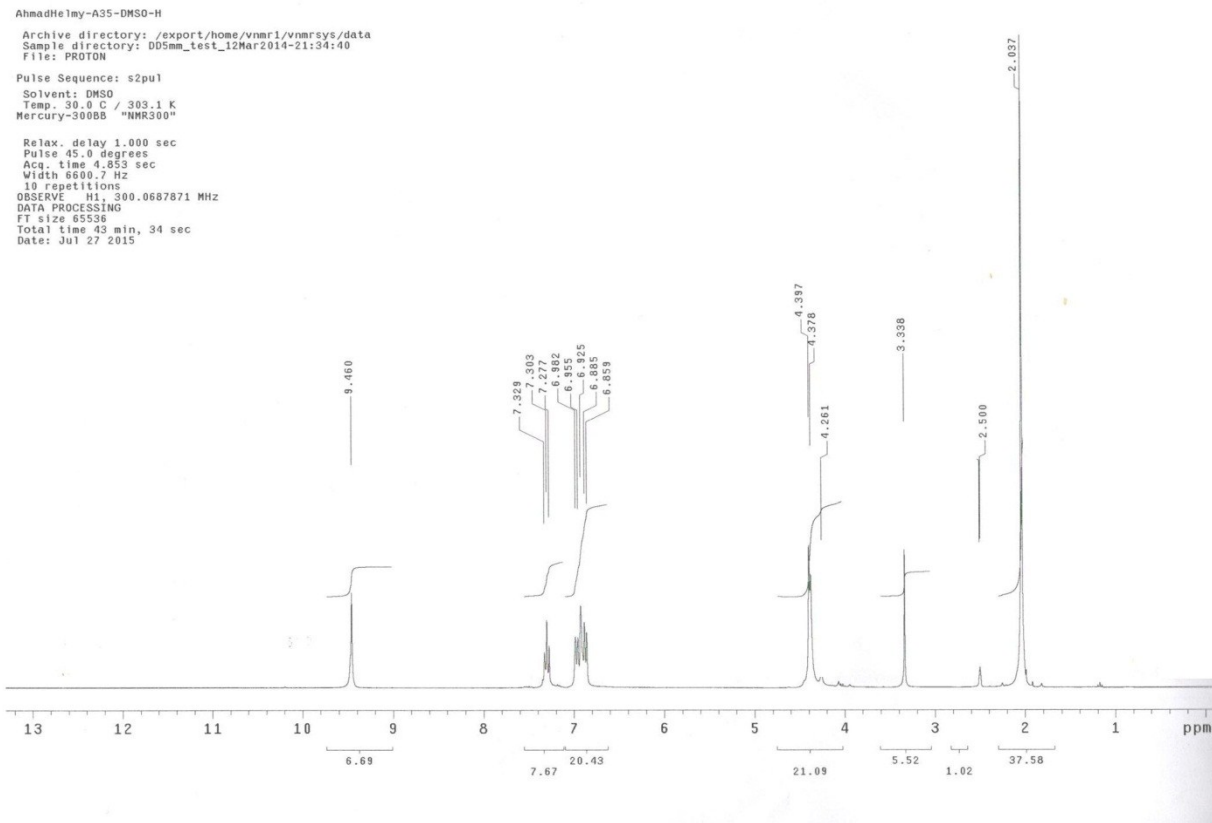
Pulse 45.0 degrees
Acq. time 1.815 sec
Width 18781.7 Hz
2812 repetitions
OBSERVE G13, 75.4523854 MHz
DECOUPLE H1, 300.0702830 MHz
Power 39 dB
continuous ly on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 191072
Total time 9 hr, 17 min, 51 sec
Date: Apr 22 2015



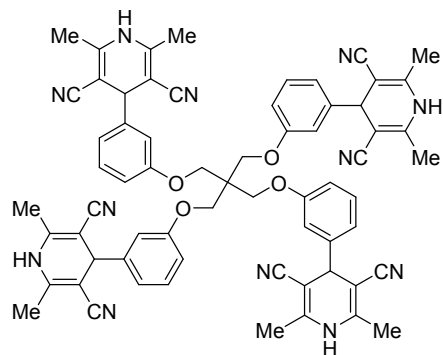
¹³C NMR spectrum of compound 5c



5d



¹H NMR spectrum of compound 5d



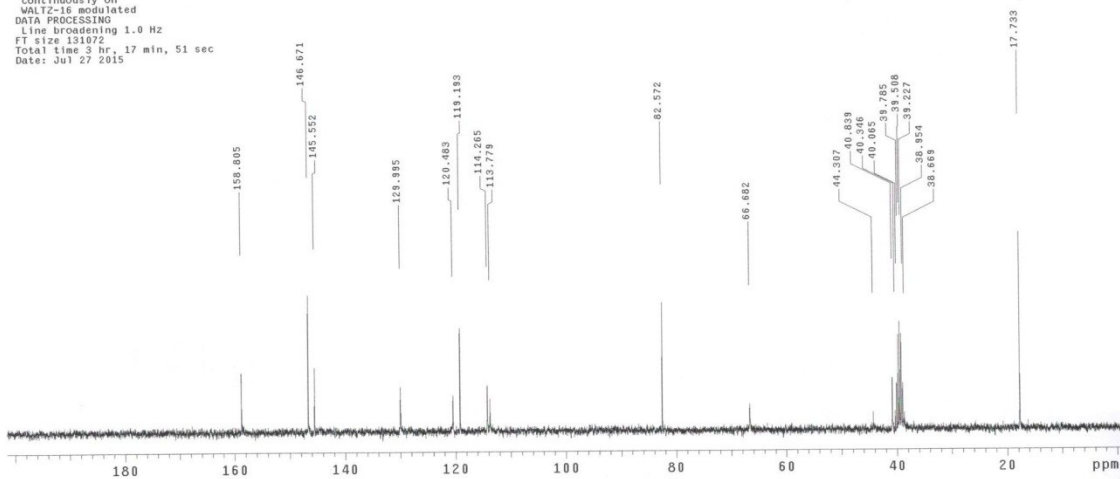
5d

AhmadHemy-A35-1-DMSO-C13

Archive directory: /export/home/vnmr1/vnmrSYS/data
 Sample directory: DDSmm_test_12Mar2014-21:34:40
 File: PROTON

Pulse Sequence: s2pu1
 Solvent: DMSO
 Temp: 30.0 C / 303.1 K
 Mercury-300BB "NMR300"

Pulse 45.0 degrees
 Acq. time 1.815 sec
 Width 18761.7 Hz
 584 repetitions
 OBSERVE C13, 75.4523954 MHz
 DECOUPLE H1, 300.0702830 MHz
 Power 53 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 151072
 Total time 3 hr, 17 min, 51 sec
 Date: Jul 27 2015



¹³CNMR spectrum of compound 5d