

Supplementary information

SiO₂-H₃BO₃ promoted solvent-free, green and sustainable synthesis of bioactive 1-substituted-1*H*-tetrazole analogues

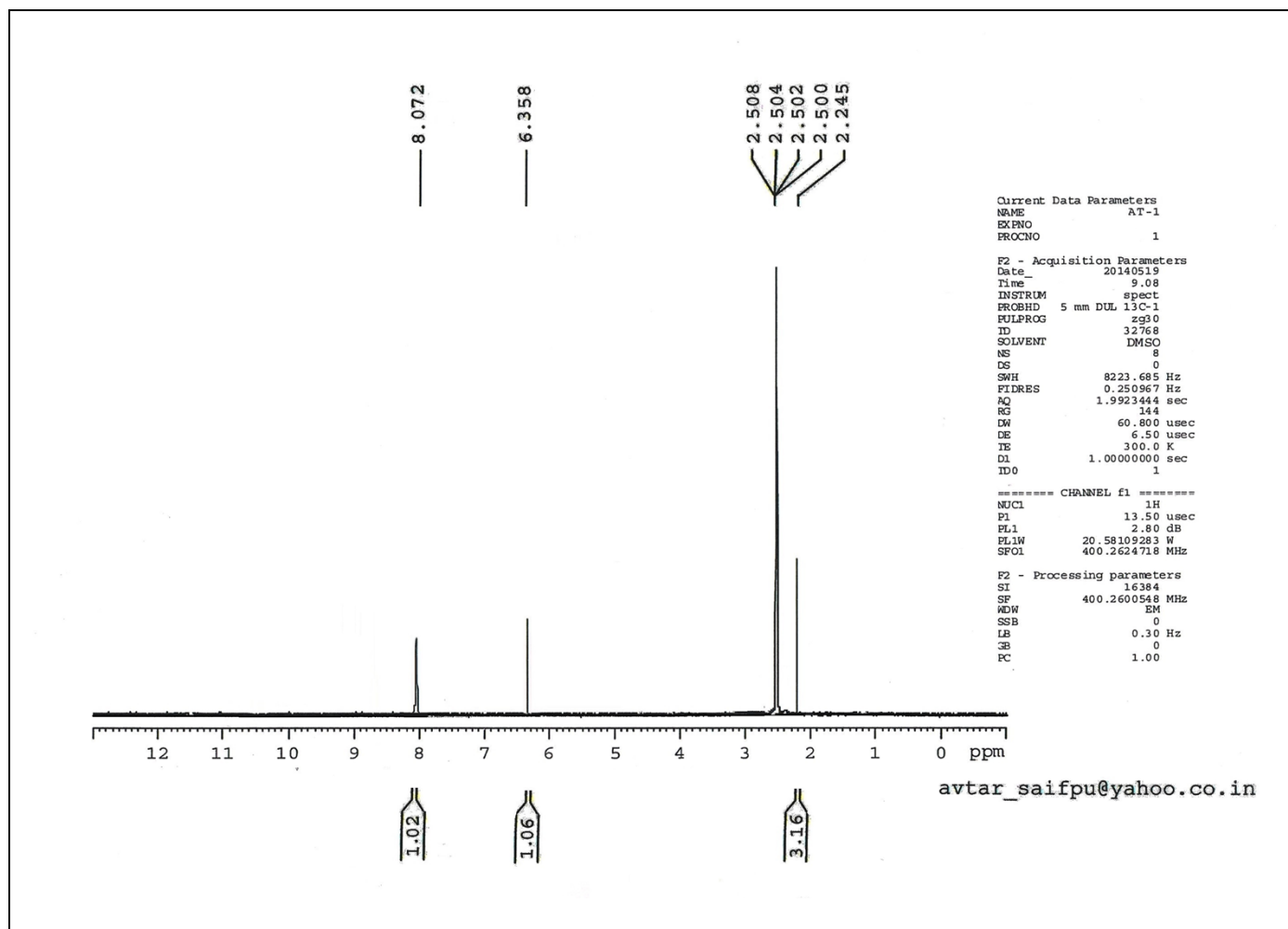
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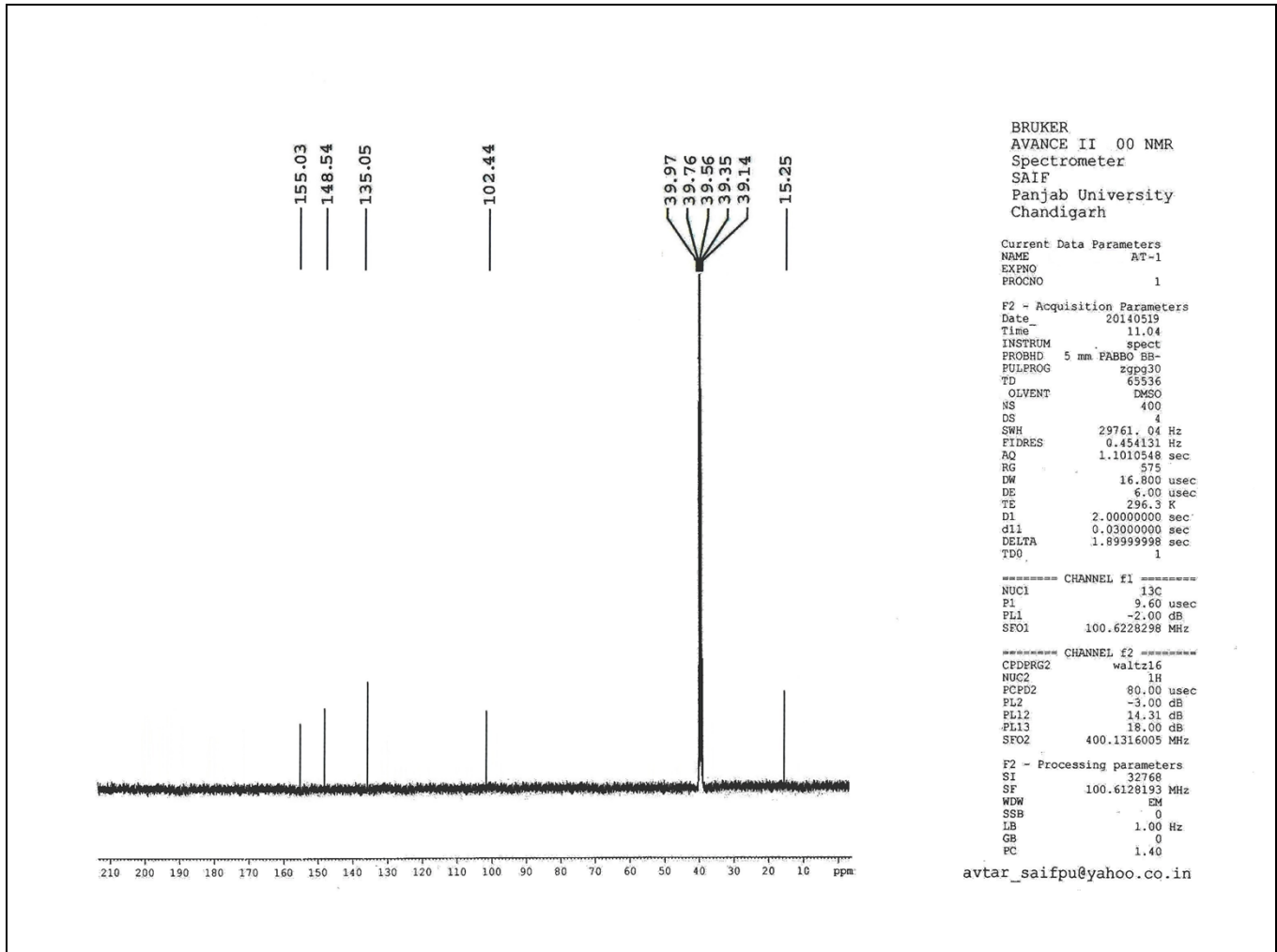
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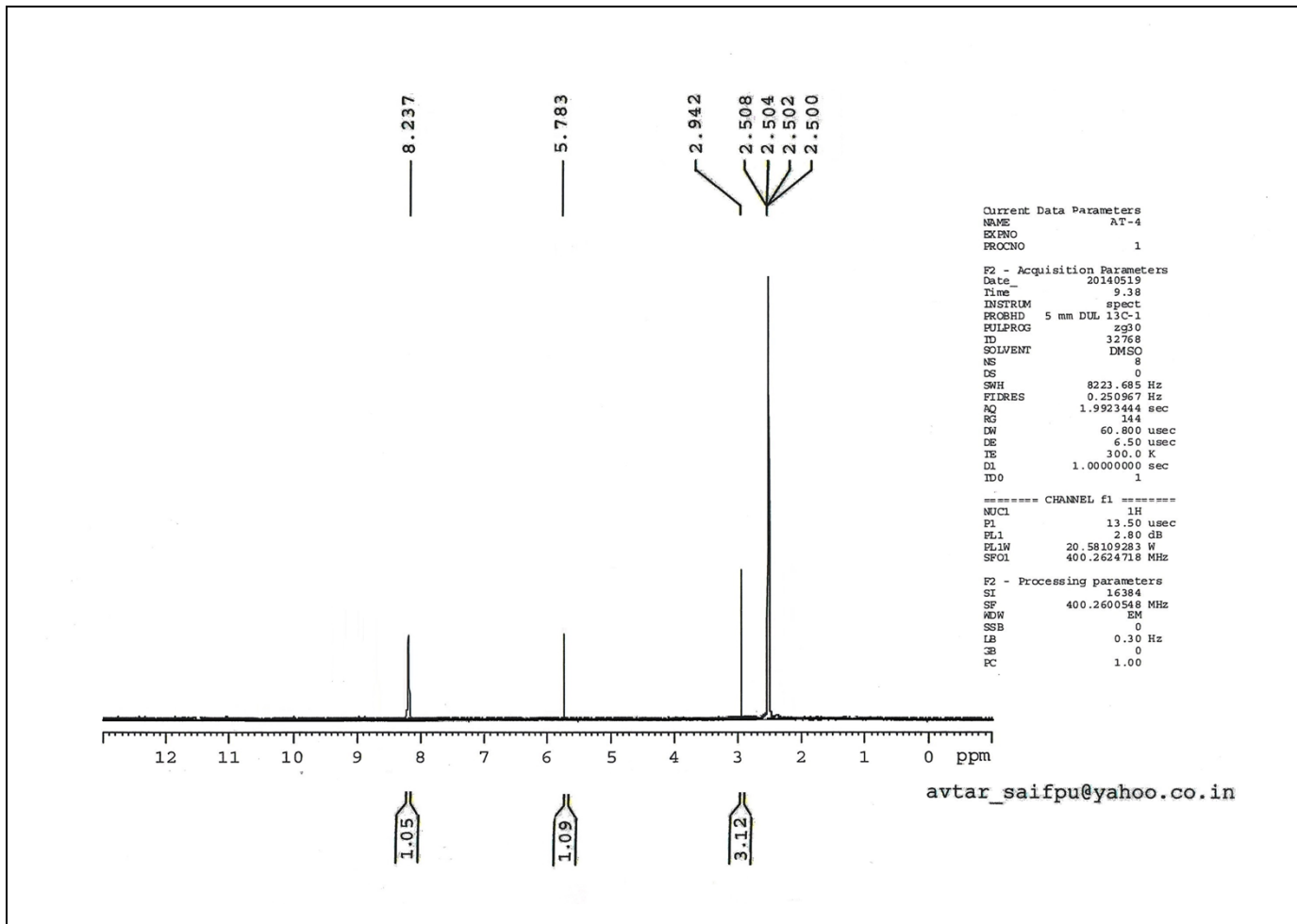
^1H and ^{13}C NMR spectra of synthesized compounds



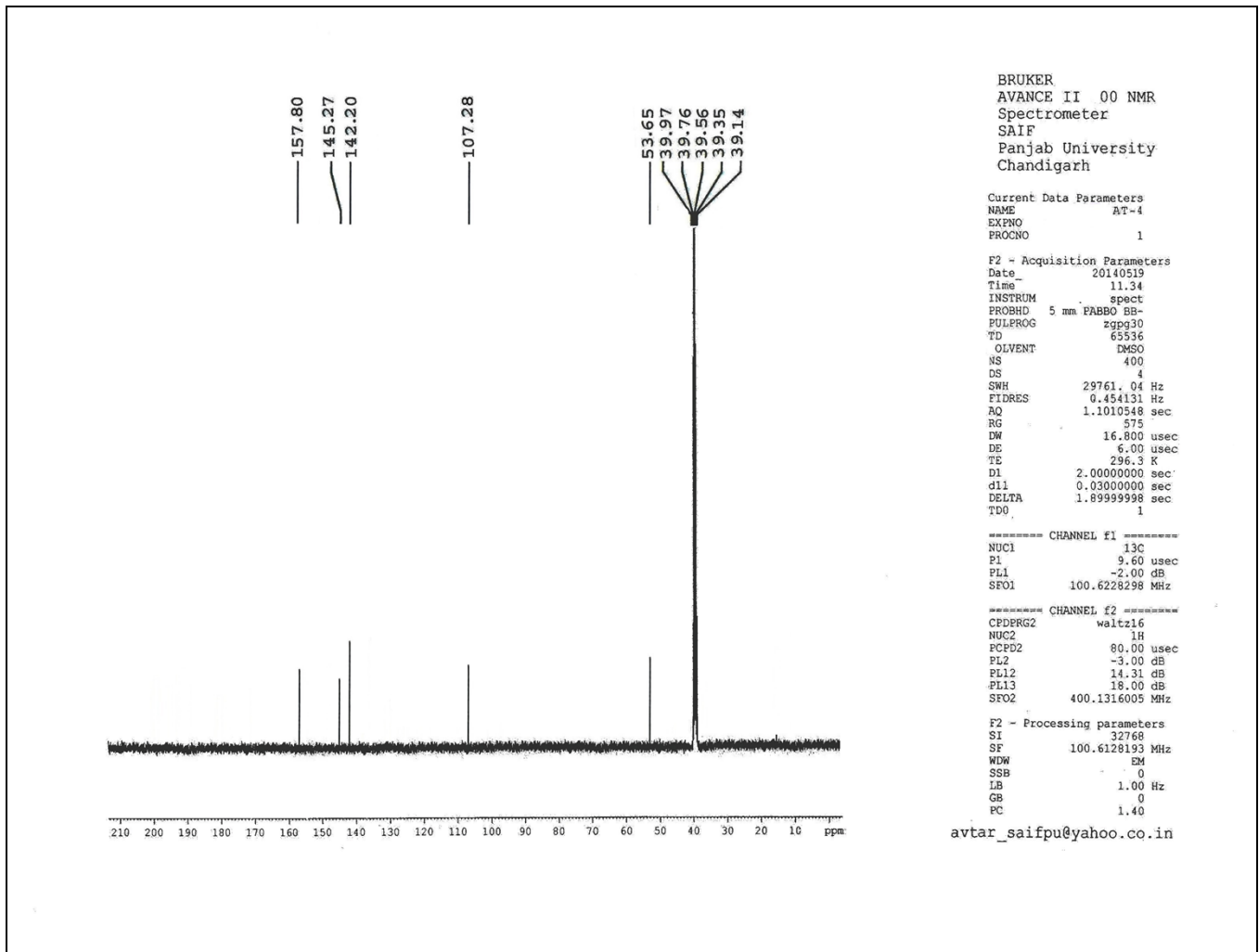
^1H NMR of compound 4a



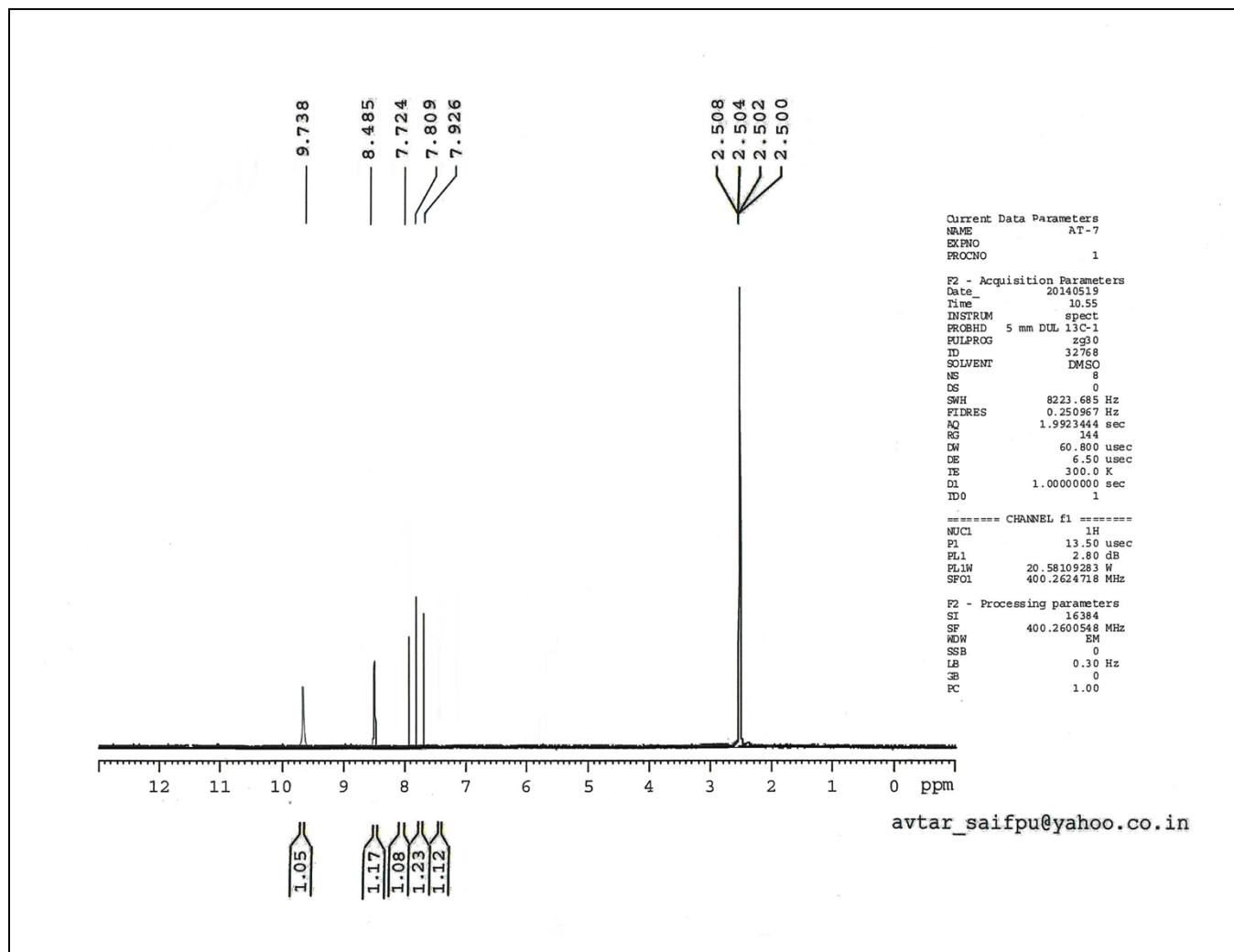
¹³C NMR of compound 4a



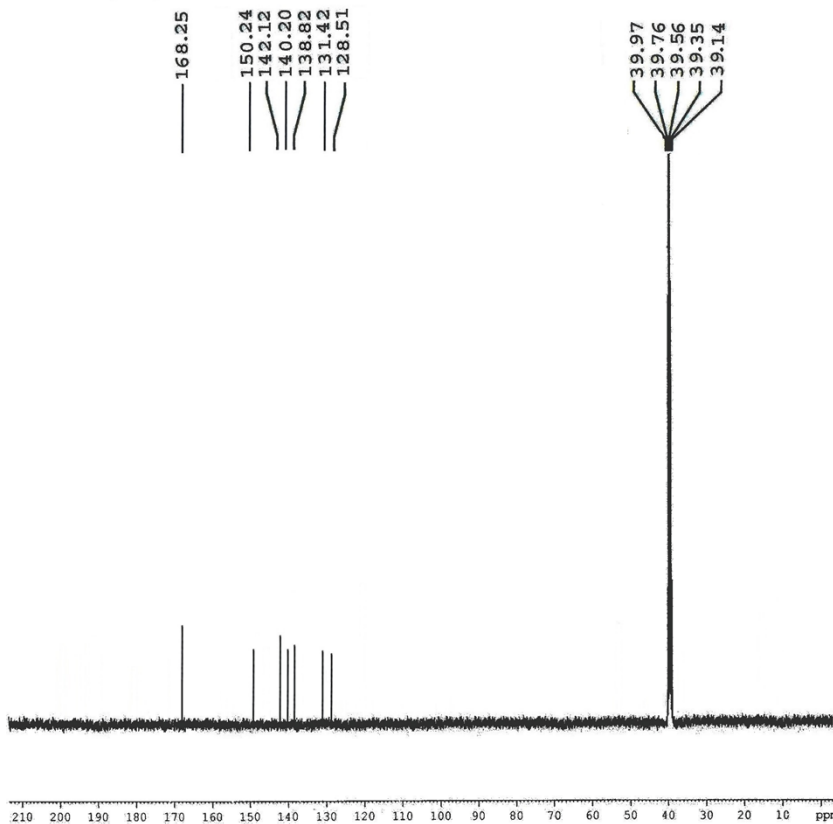
¹H NMR of compound 4d



¹³C NMR of compound 4d



¹H NMR of compound 4g



BRUKER
 AVANCE II 00 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
 NAME AT-7
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 20140519
 Time 11.53
 INSTRUM spect
 PROBHD 5 mm F4BBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 400
 DS 4
 SWH 29761.04 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 575
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 DE 6.00 usec
 TE 296.3 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.89999998 sec
 TDO 1

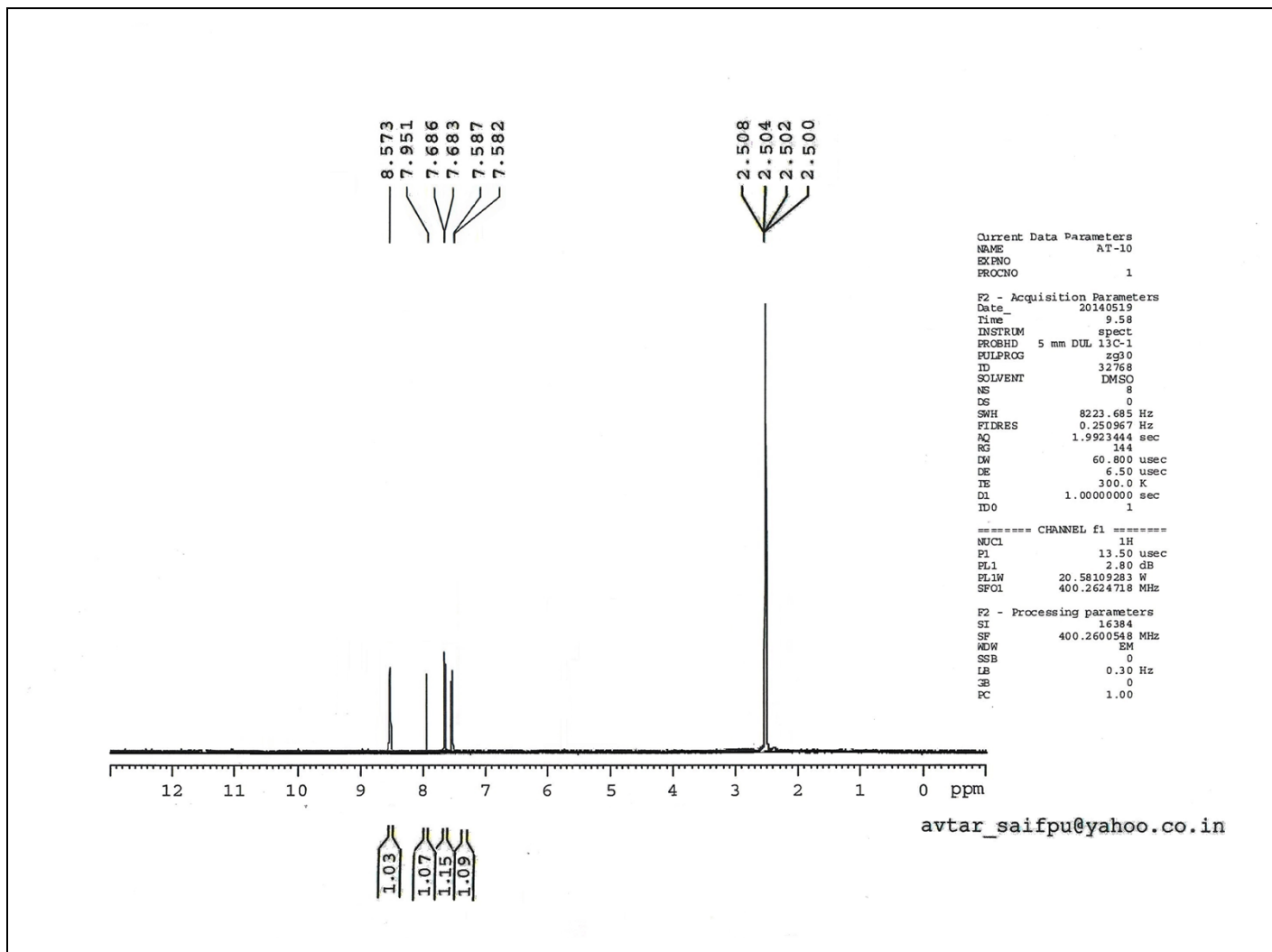
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 PL1 -2.00 dB
 SFO1 100.6228298 MHz

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 NUC2 1H
 PCPD2 80.00 usec
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 PL12 14.31 dB
 PL13 18.00 dB
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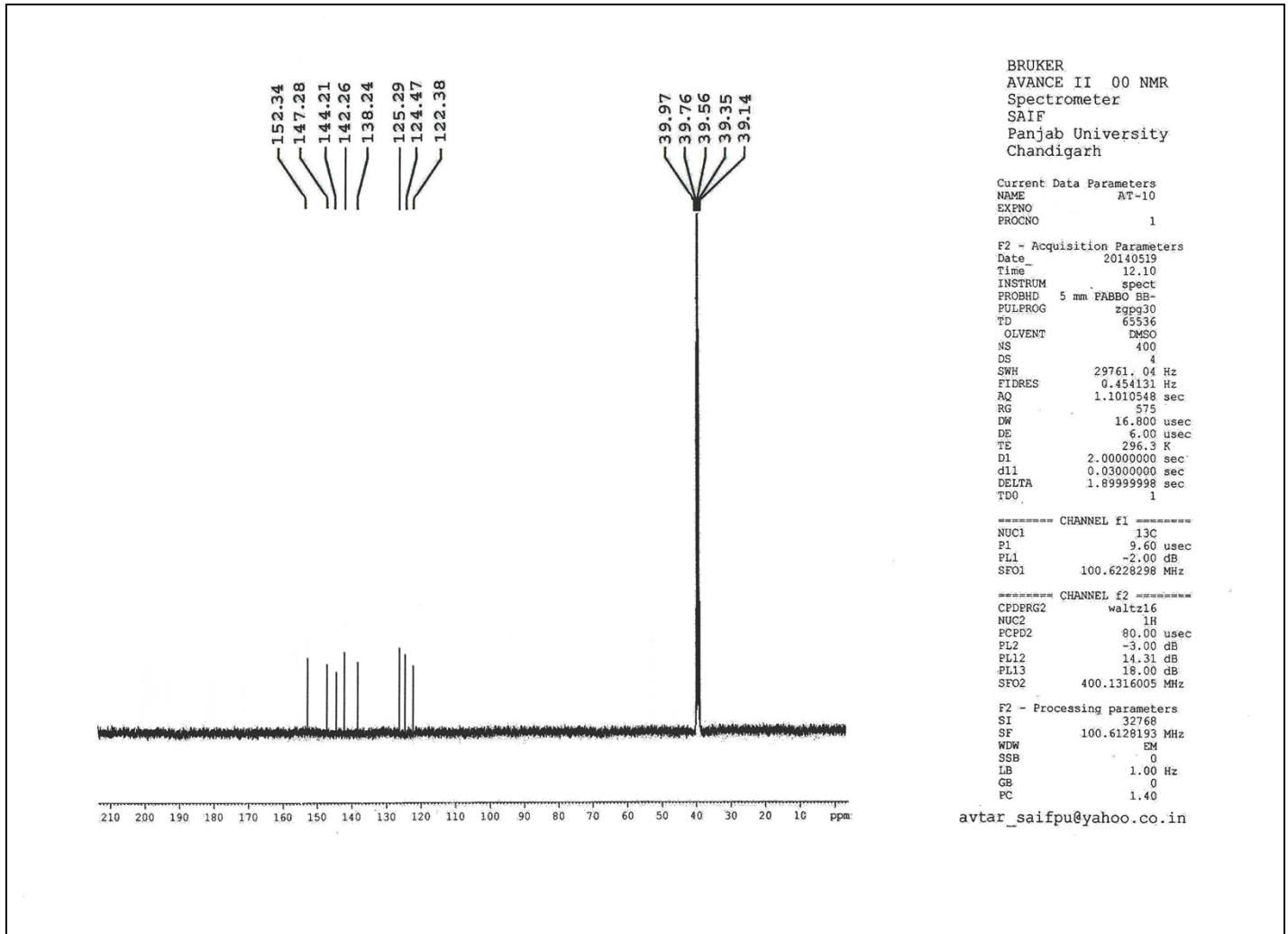
F2 - Processing parameters
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 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

avtar_saifpu@yahoo.co.in

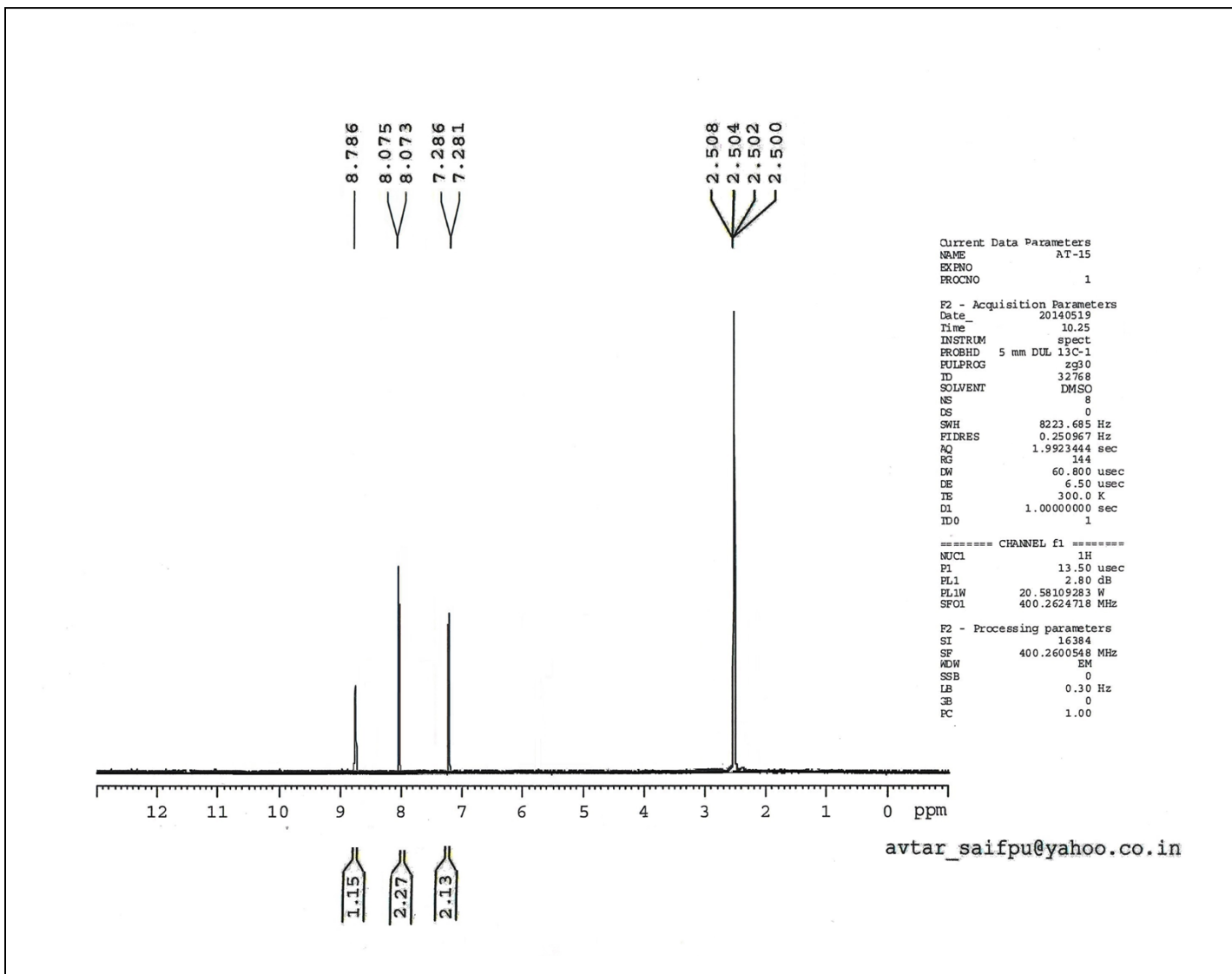
¹³C NMR of compound 4g



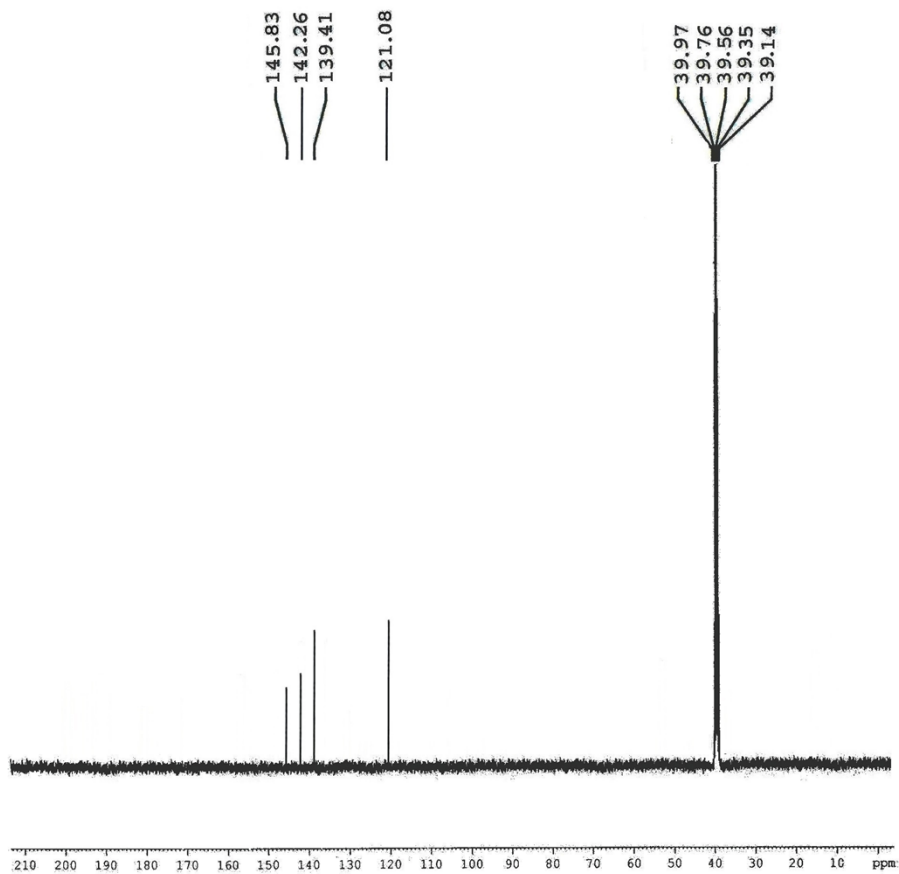
¹H NMR of compound 4j



¹³C NMR of compound 4j



¹H NMR of compound 4o



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AVANCE II 00 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
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EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
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PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 400
DS 4
SWH 29761.04 Hz
FIDRES 0.454131 Hz
AQ 1.1010548 sec
RG 575
DW 16.800 usec
DE 6.00 usec
TE 296.3 K
D1 2.0000000 sec
d11 0.0300000 sec
DELTA 1.89999998 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.60 usec
PL1 -2.00 dB
SFO1 100.6228298 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -3.00 dB
PL12 14.31 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128193 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

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¹³C NMR of compound 40