

Figure (3.9) - IR spectrum of compound number XIV

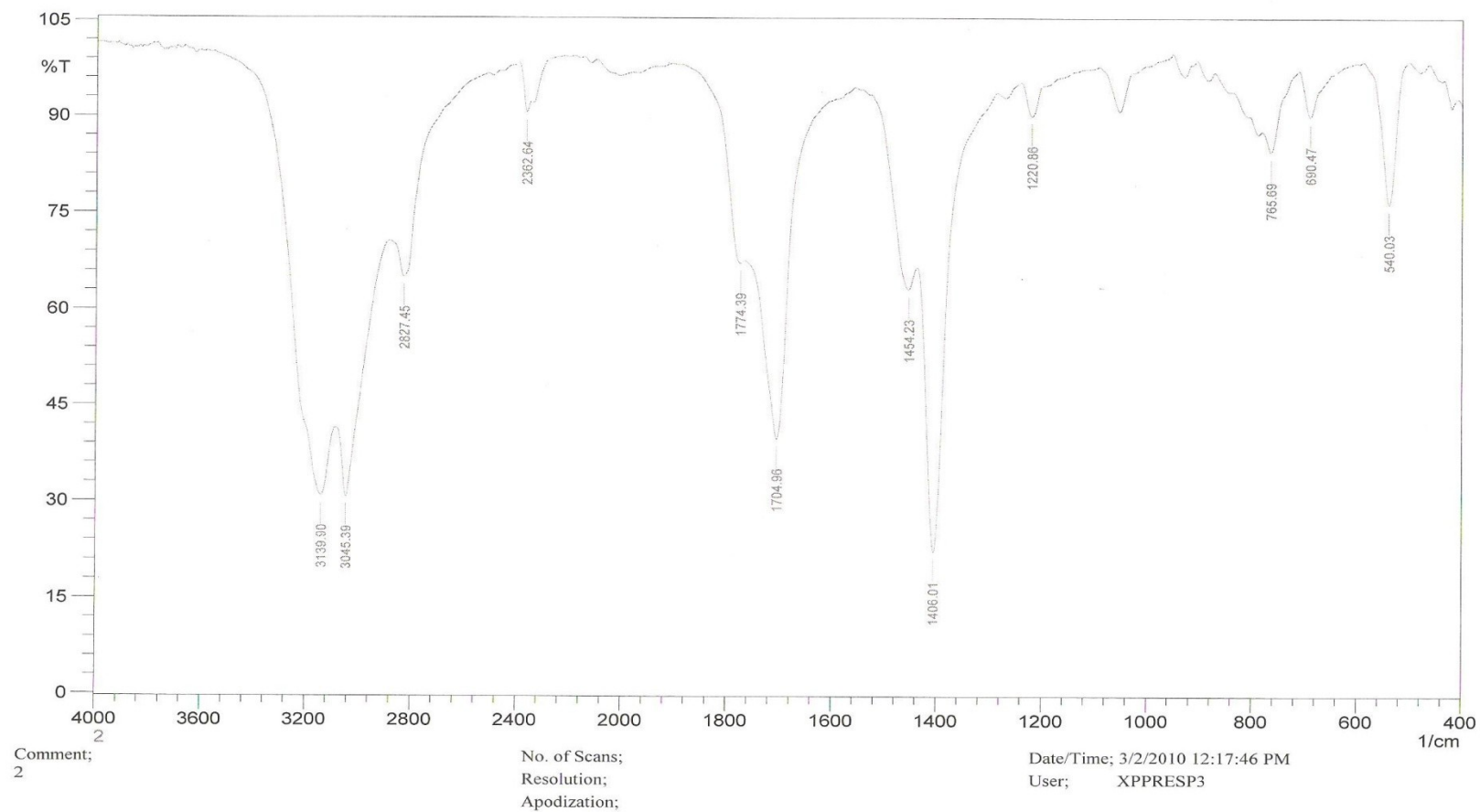


Figure (3.10) - IR spectrum of compound number XV

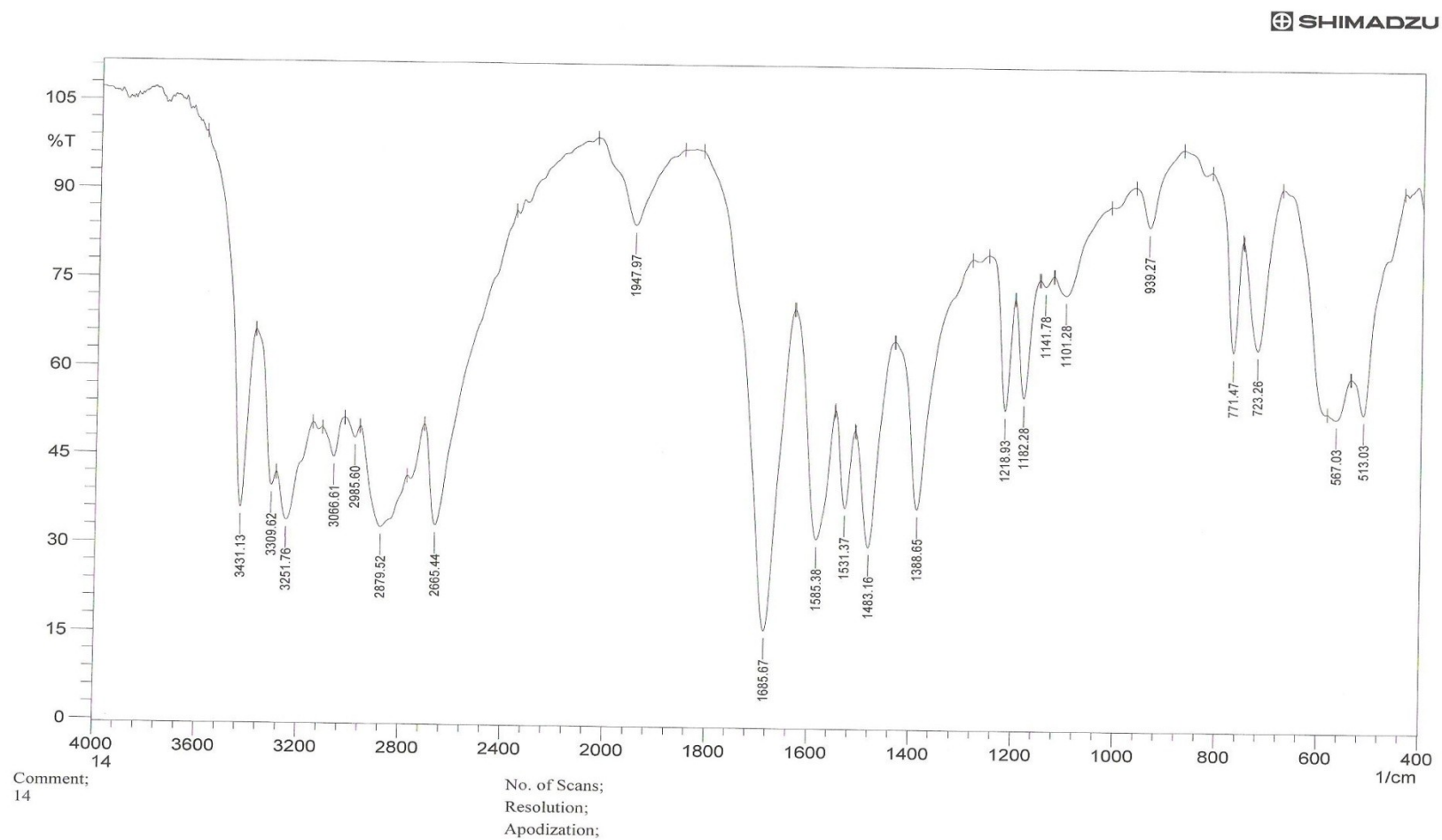


Figure (3.11) - IR spectrum of compound number XVI

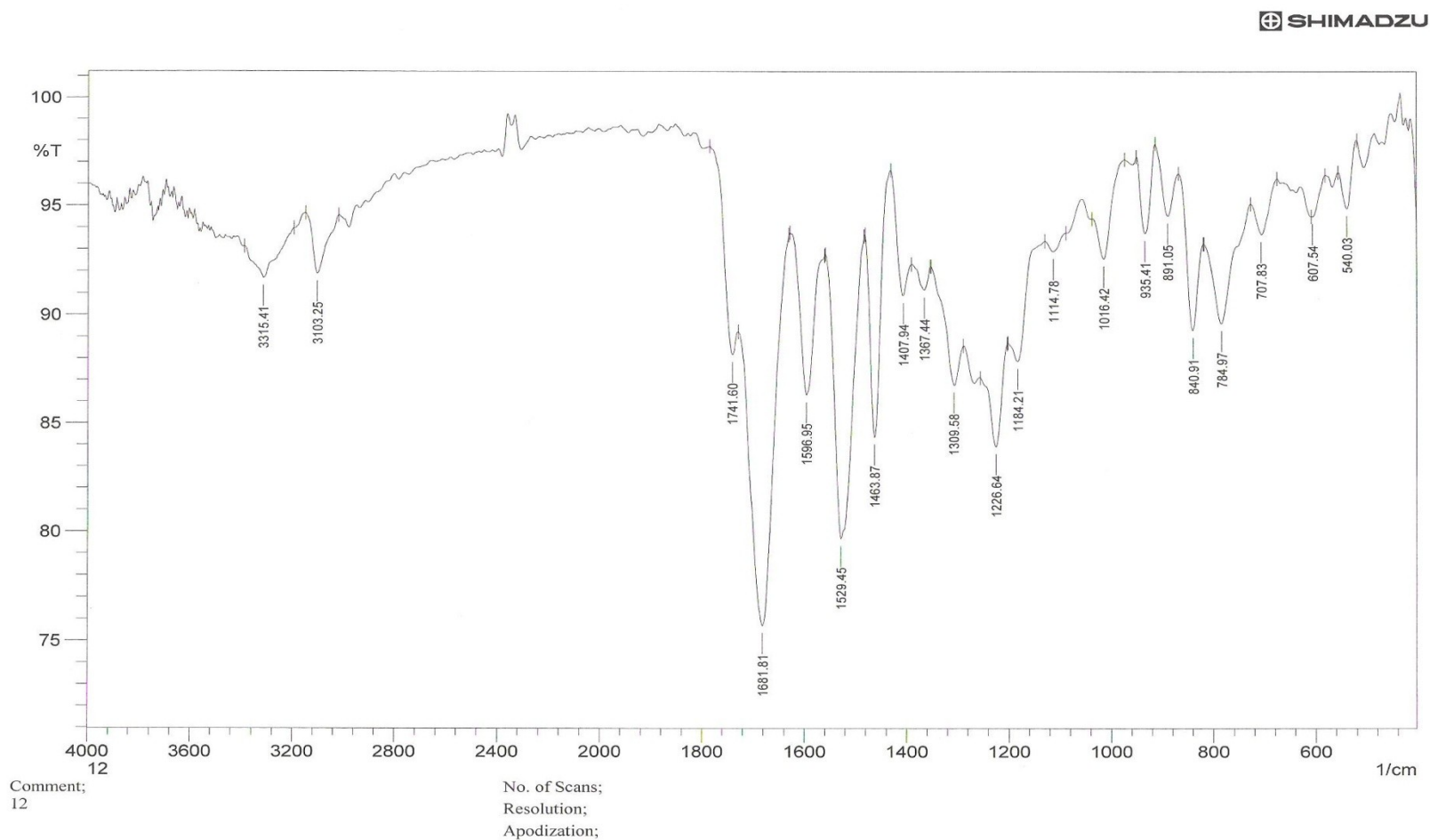


Figure (3.12) - IR spectrum of compound number XVII

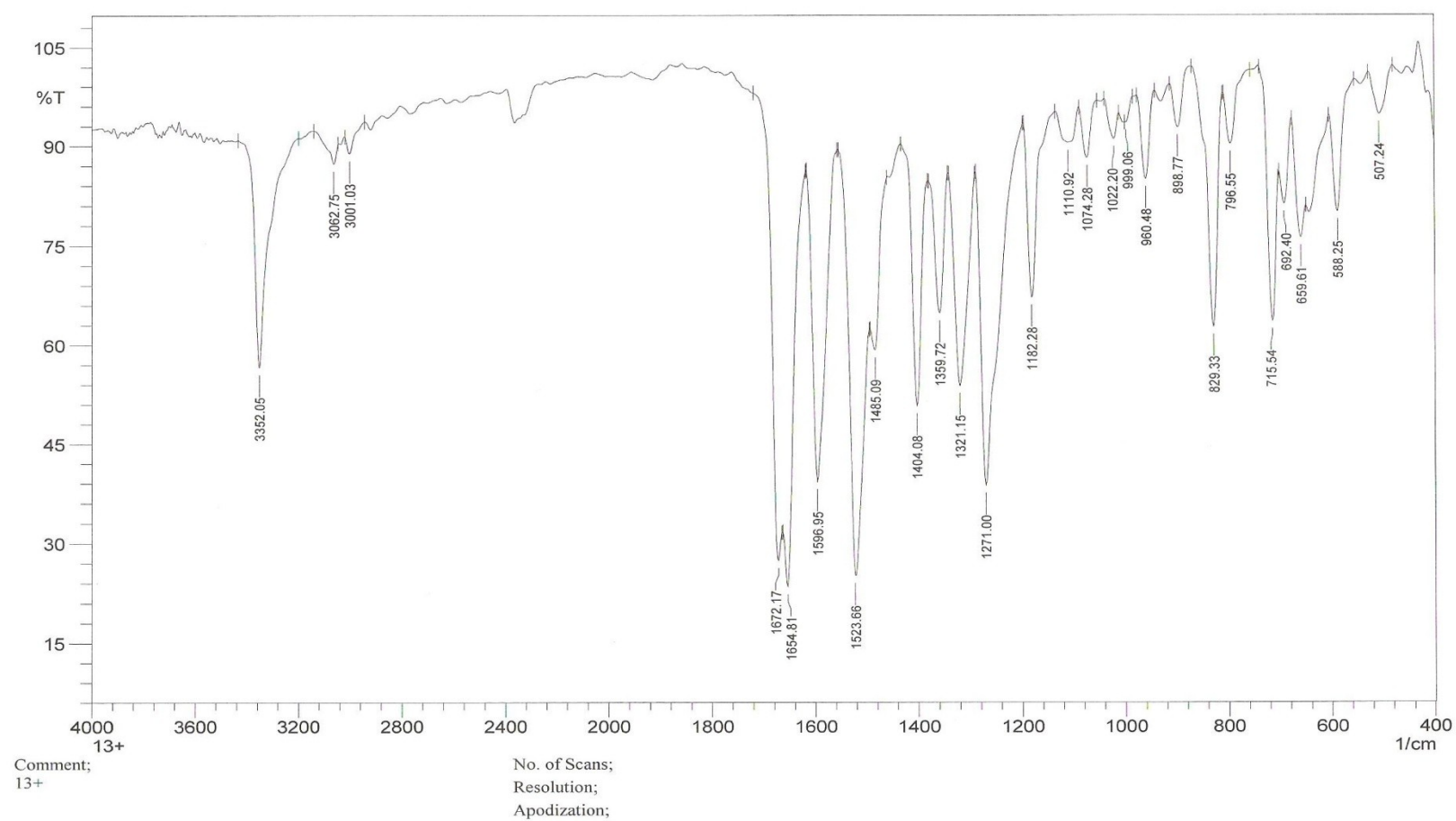


Figure (3.13) - IR spectrum of compound number XVIII

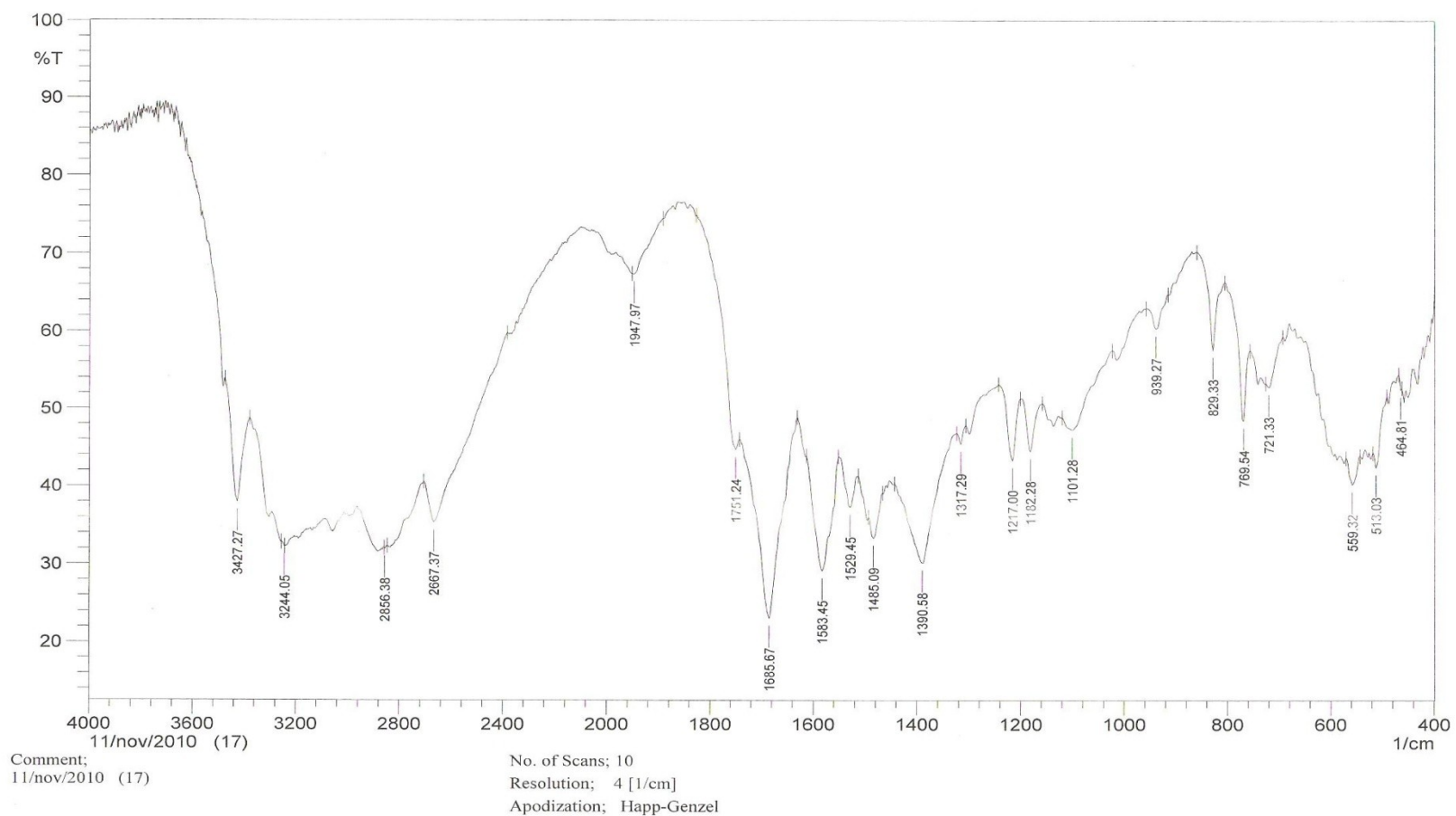


Figure (3.14) - IR spectrum of compound number XIX

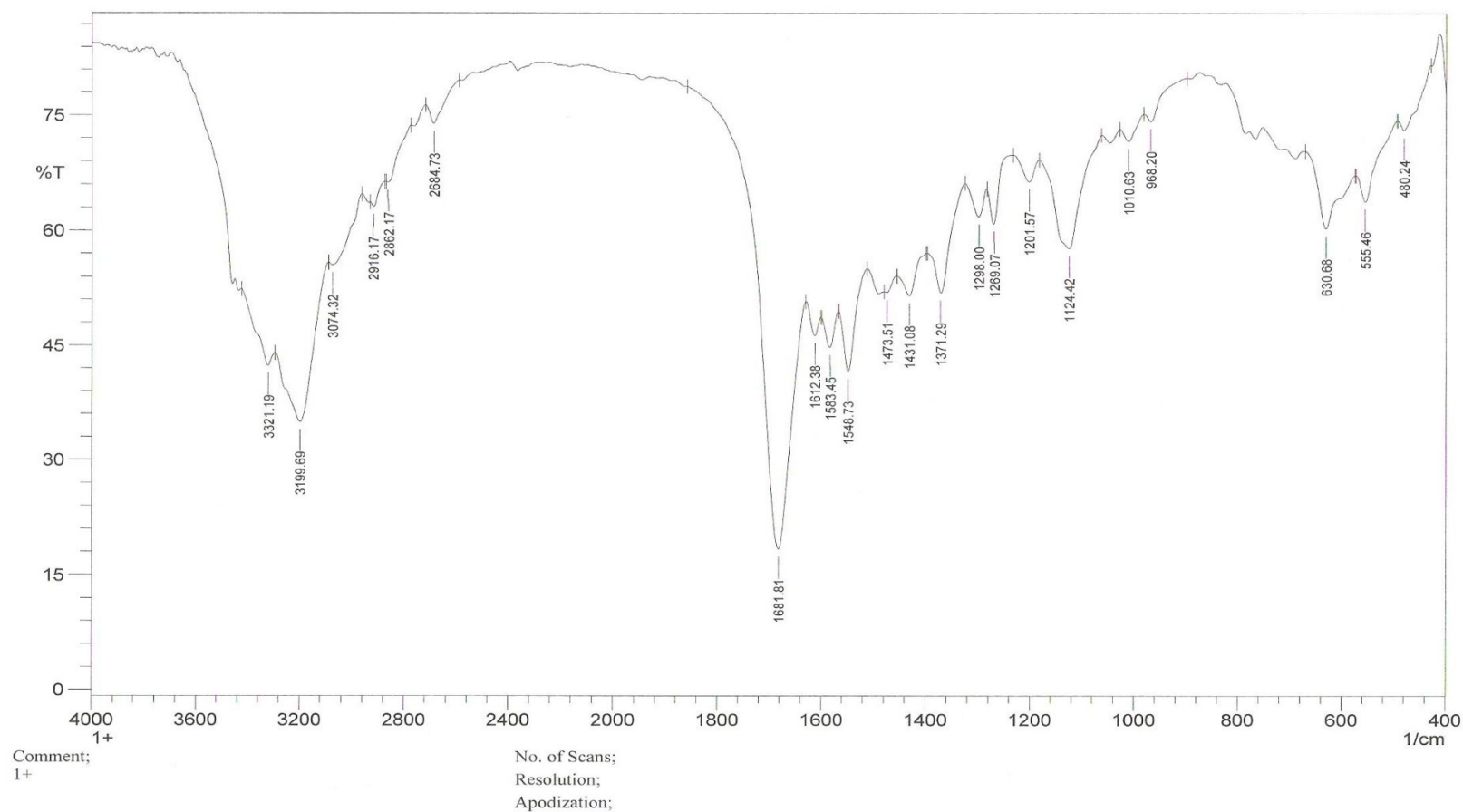


Figure (3.15) - IR spectrum of compound number VIII

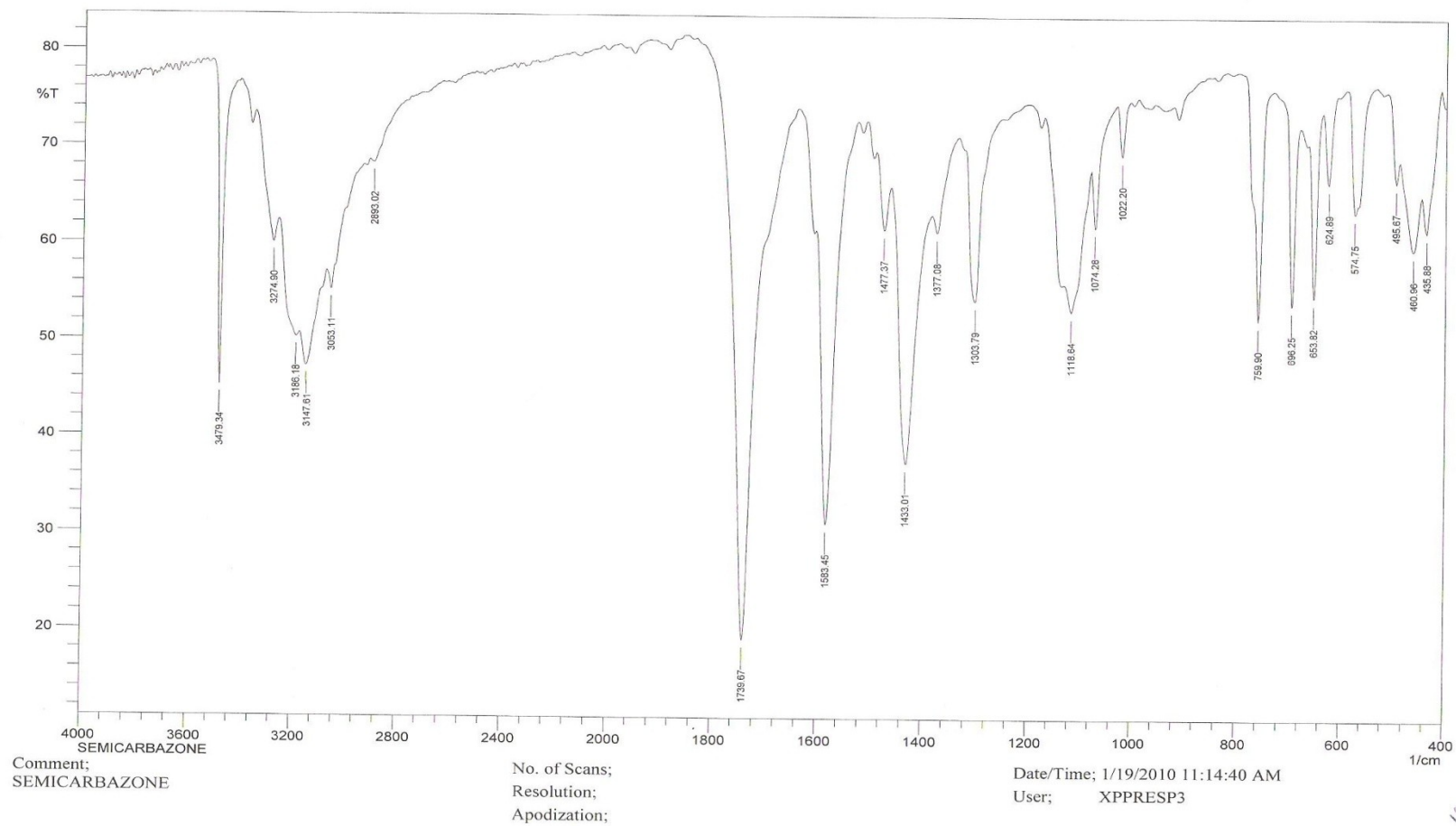


Figure (3.16) - IR spectrum of compound number IX

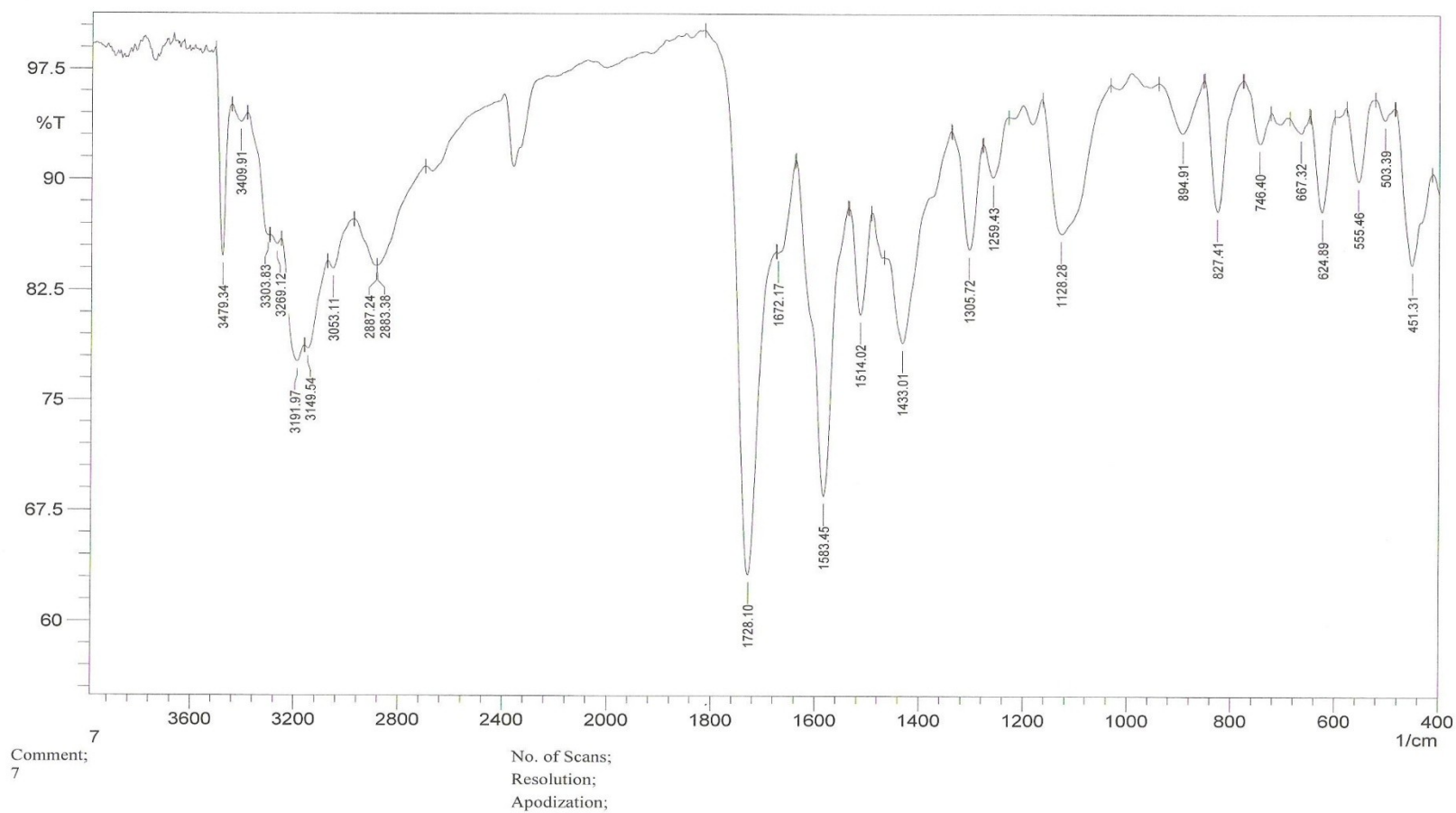


Figure (3.17) - IR spectrum of compound number X

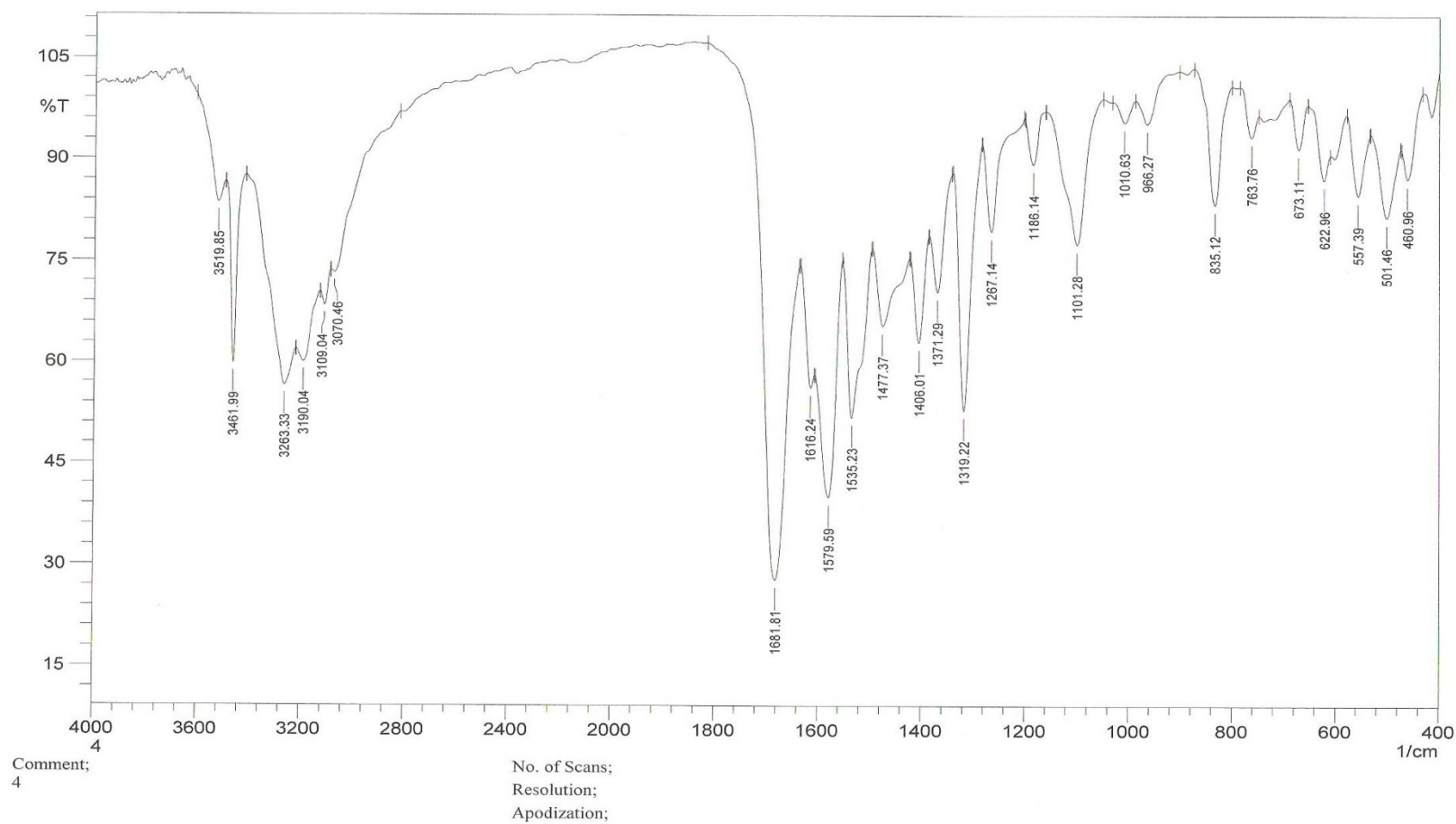


Figure (3.18) - IR spectrum of compound number XI

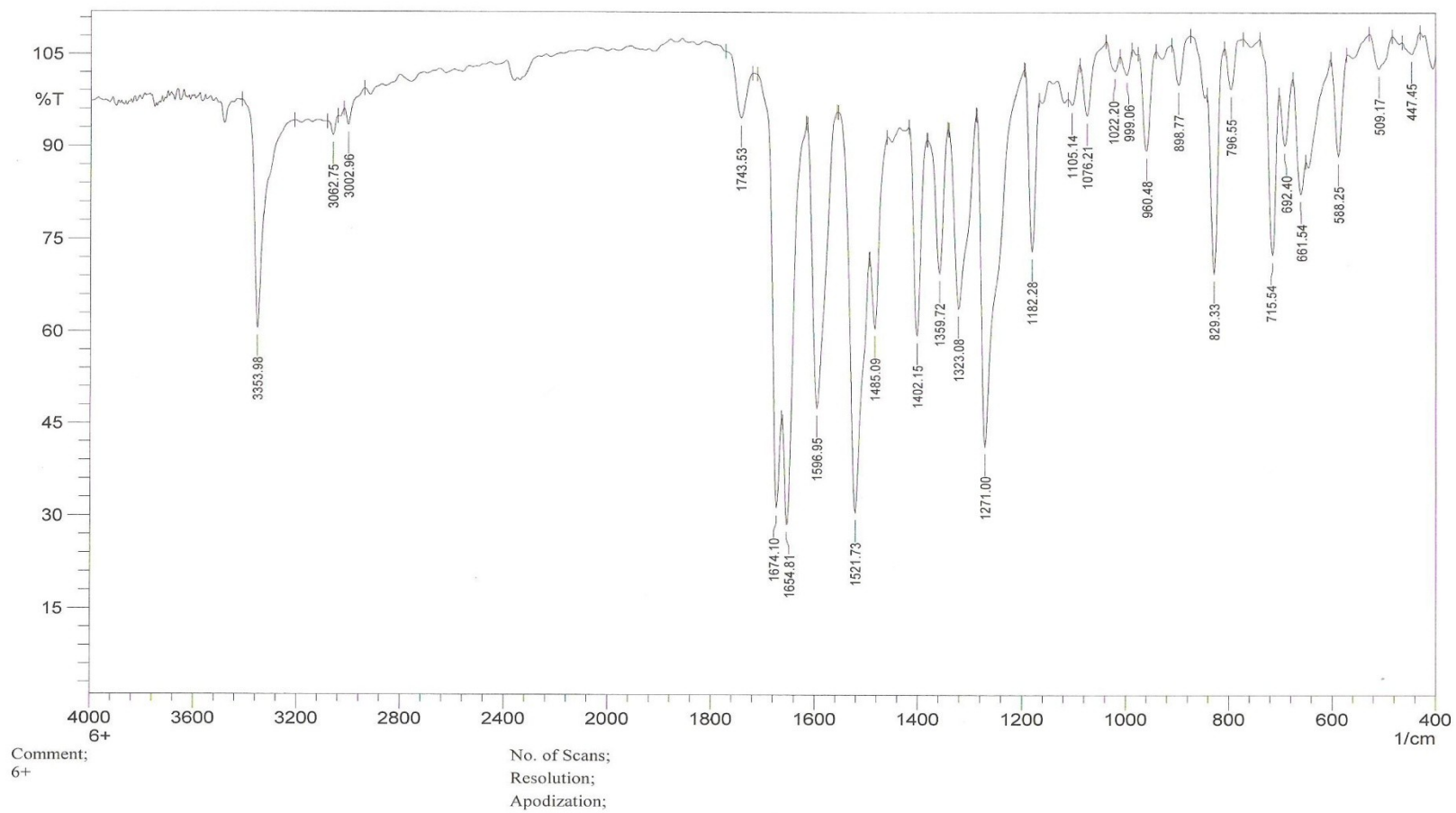


Figure (3.19) - IR spectrum of compound number XII

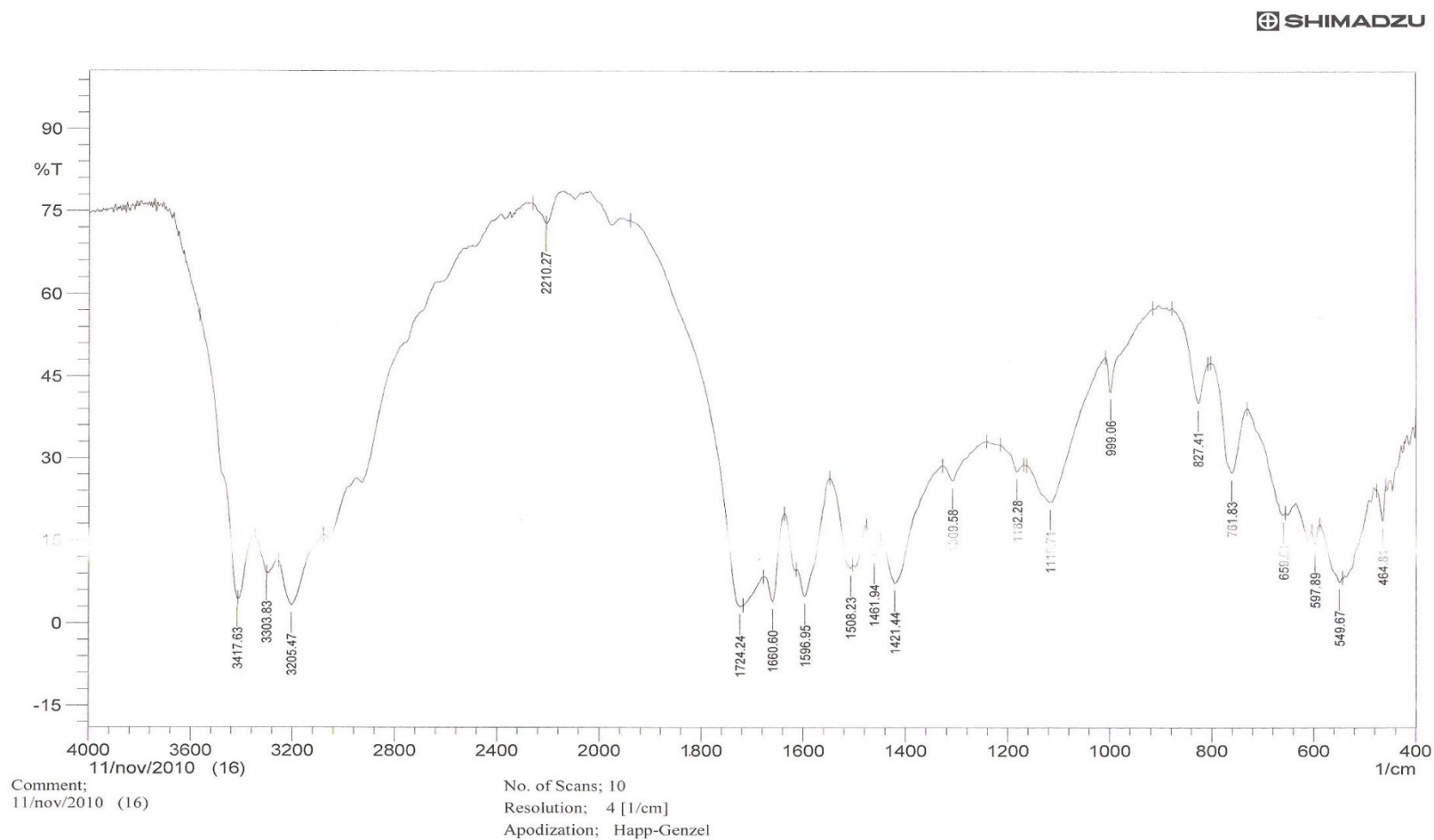


Figure (3.20) - IR spectrum of compound number XIII

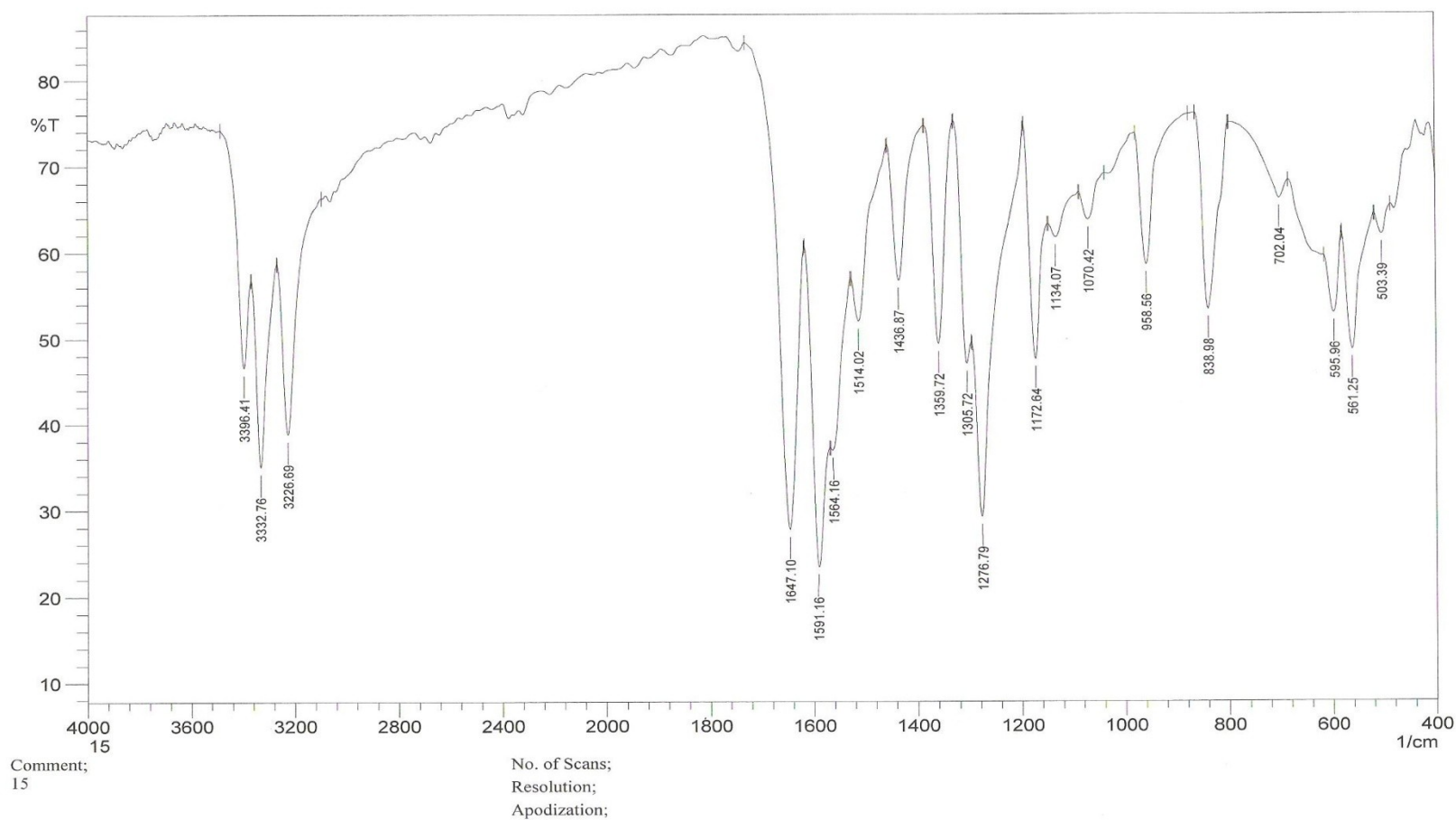


Figure (3.21) - IR spectrum of compound number III

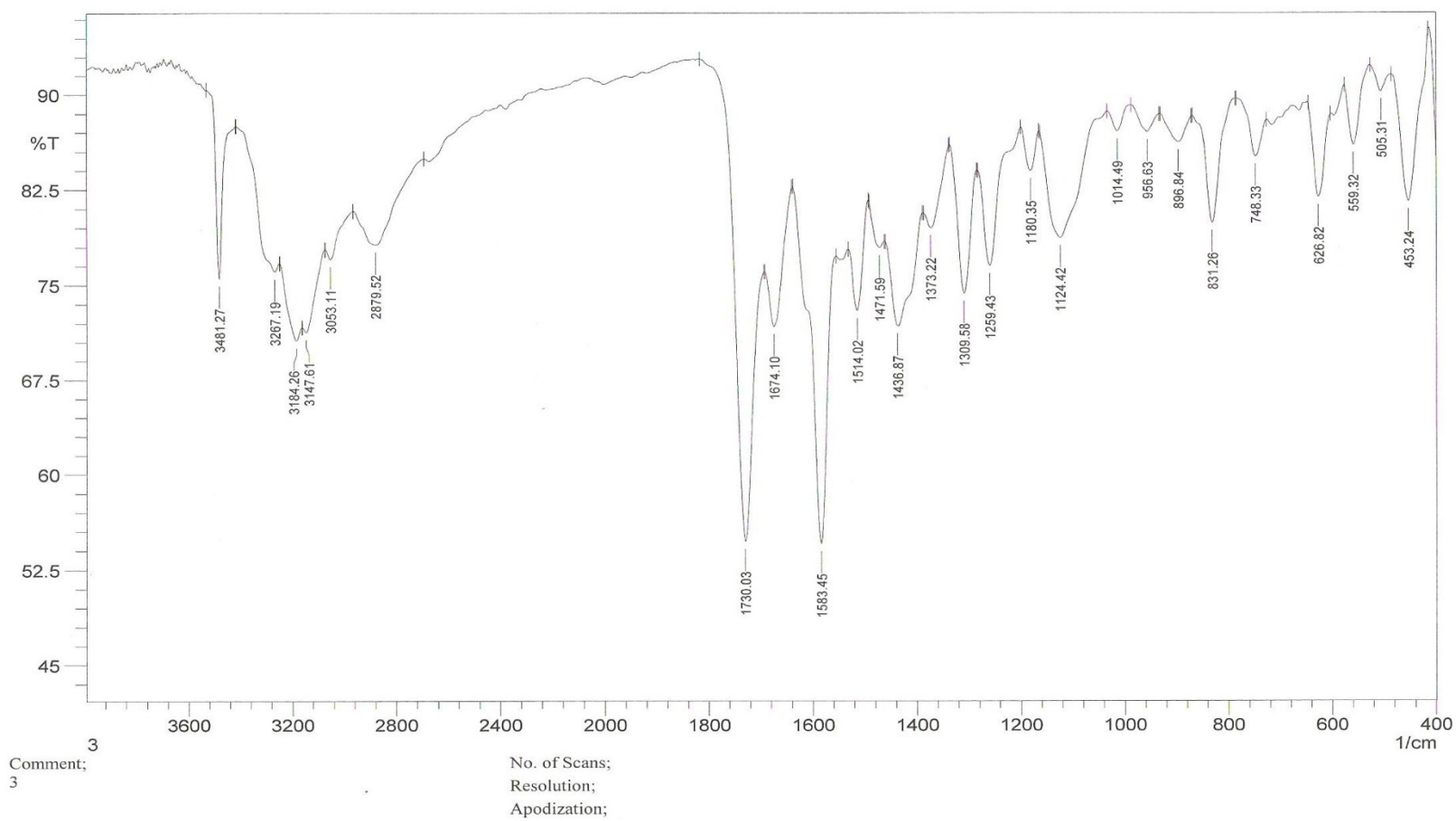
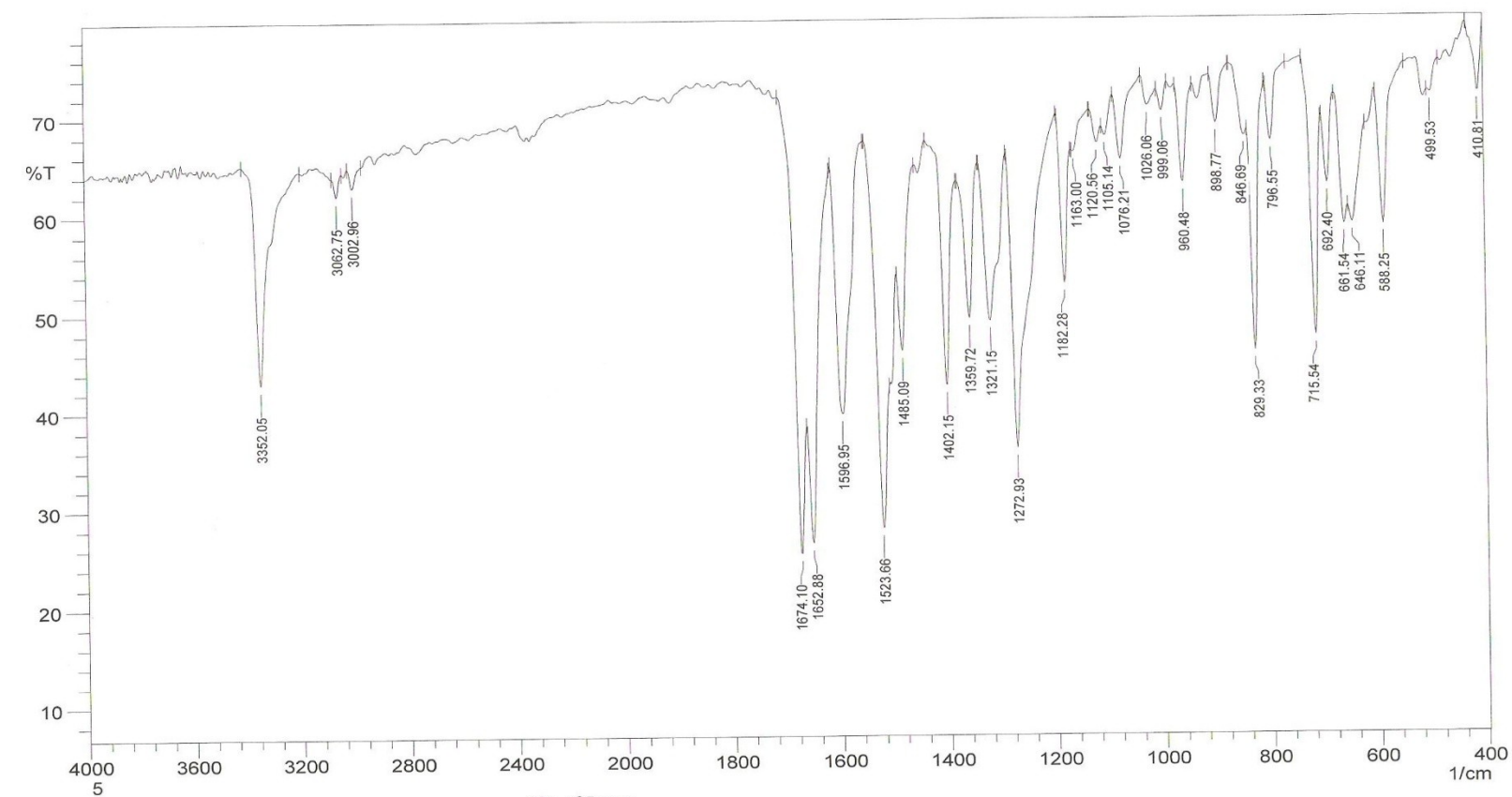


Figure (3.22) - IR spectrum of compound number IV



Comment;
5

No. of Scans;
Resolution;
Apodization;

Figure (3.23) - IR spectrum of compound number V

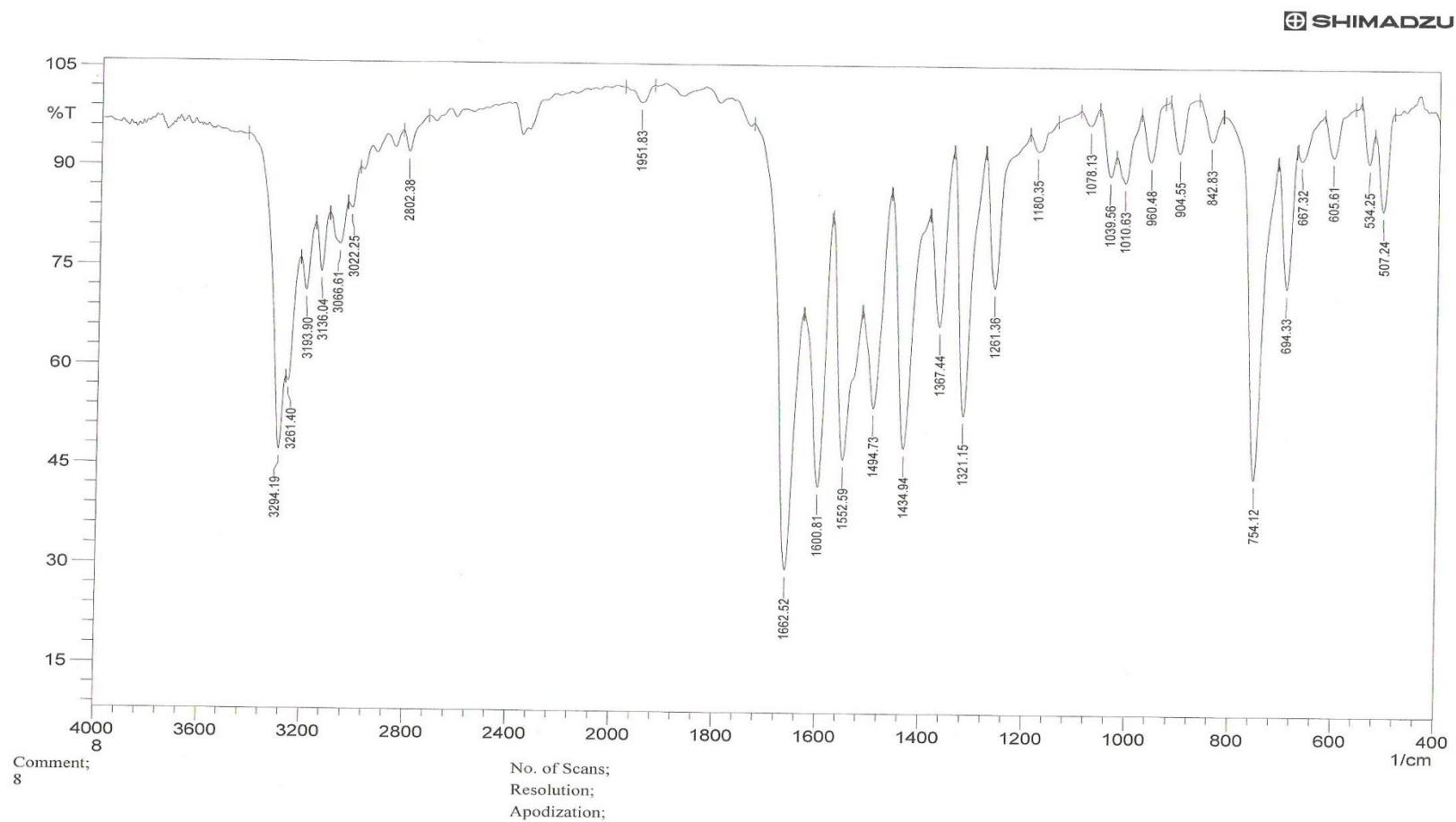


Figure (3.24) - IR spectrum of compound number VI

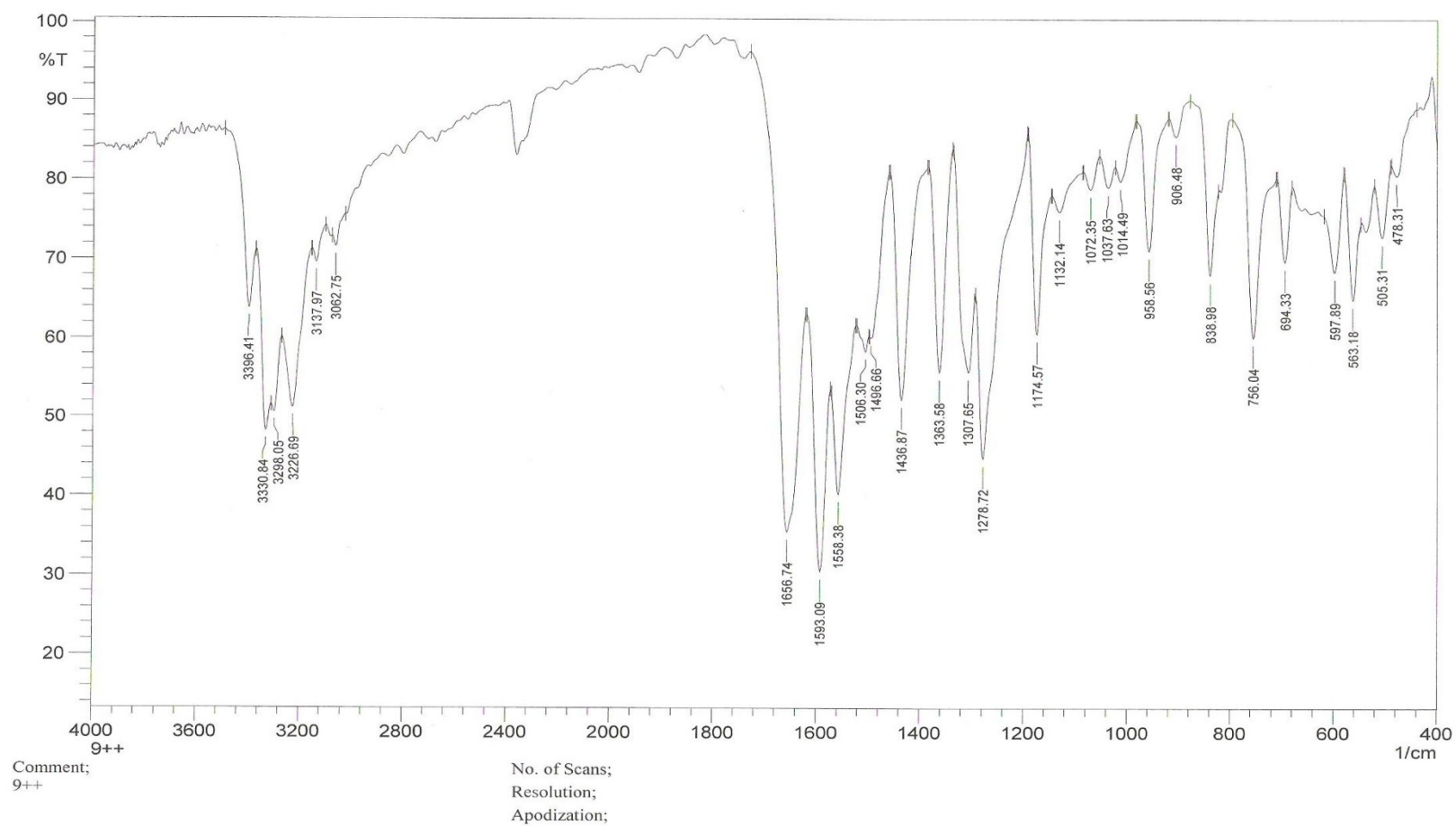


Figure (3.25) - IR spectrum of compound number VII

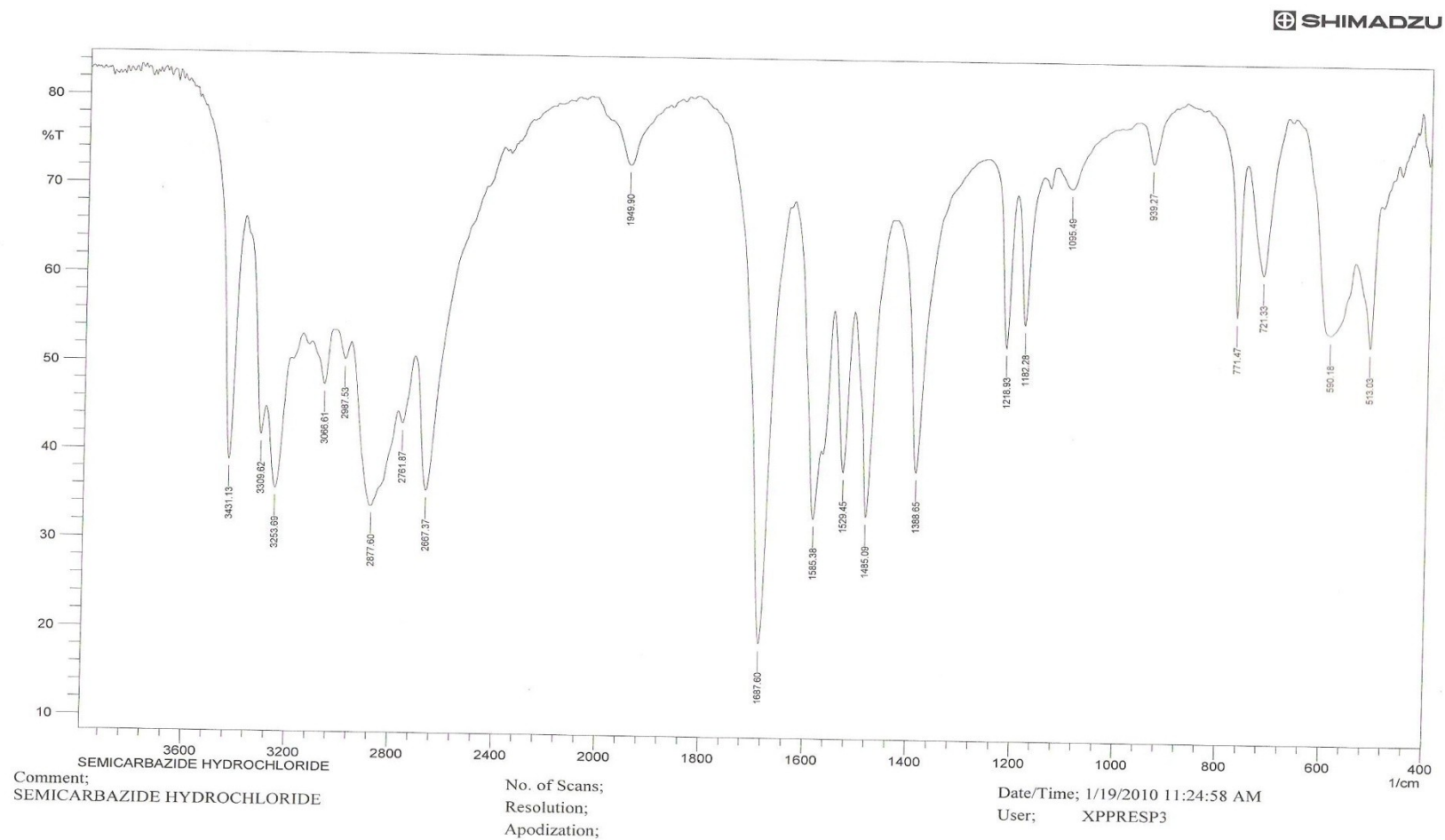


Figure (3.26) - IR spectrum of semicarbazide hydrochloride as starting material.

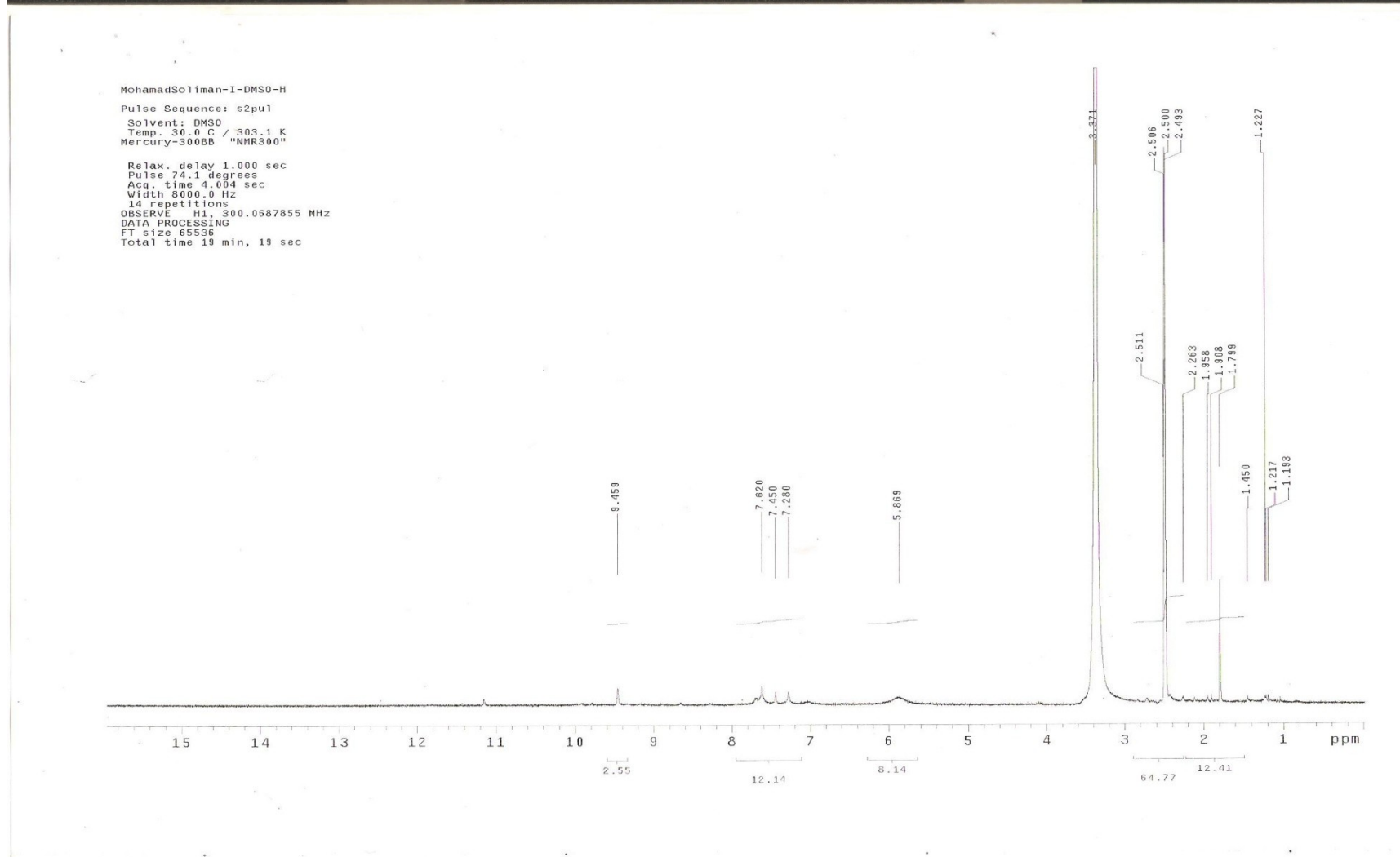


Figure (3.27) – H^1 -NMR spectrum of compound number XIV

MohamadSoliman-VI-DMSO-H

Pulse Sequence: s2pu1

Solvent: DMSO

Temp. 30.0 C / 303.1 K

Mercury-300BB "NMR300"

Relax. delay 1.000 sec

Pulse 74.1 degrees

Acq. time 4.004 sec

Width 8000.0 Hz

39 repetitions

OBSERVE H1, 300.0687855 MHz

DATA PROCESSING

FT size 65536

Total time 19 min, 19 sec

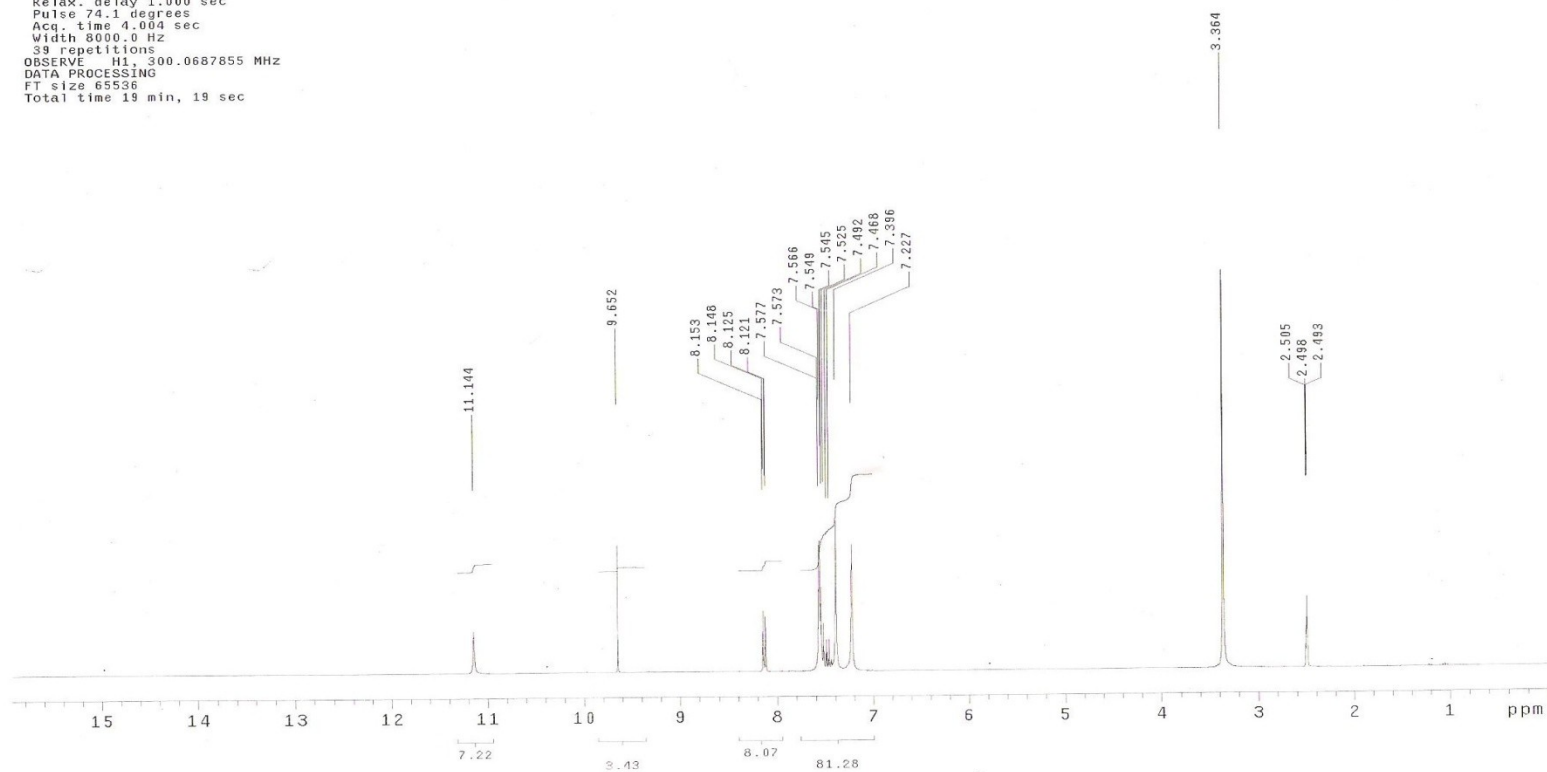


Figure (3.28) – ^1H -NMR spectrum of compound number XV

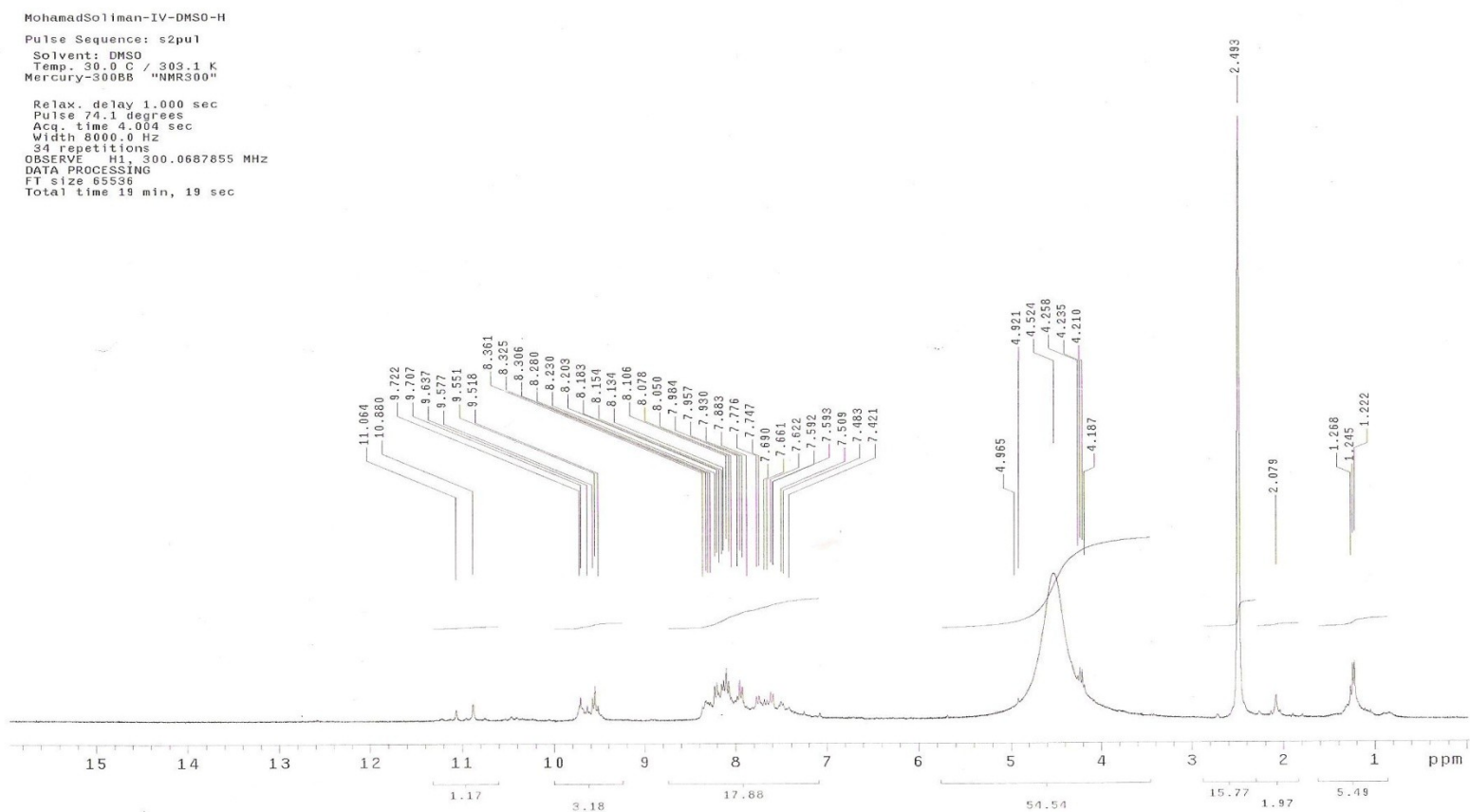


Figure (3.29) – ^1H -NMR spectrum of compound number XVII

MohamadSoliman-II-DMSO-H
 Pulse Sequence: s2pu1
 Solvent: DMSO
 Temp. 30.0 C / 303.1 K
 Mercury-300BB "NMR300"
 Relax. delay 1.000 sec
 Pulse 74.1 degrees
 Acq. time 4.004 sec
 Width 8000.0 Hz
 20 repetitions
 OBSERVE H1: 300.0687855 MHz
 DATA PROCESSING
 FT size 65536
 Total time 19 min, 19 sec

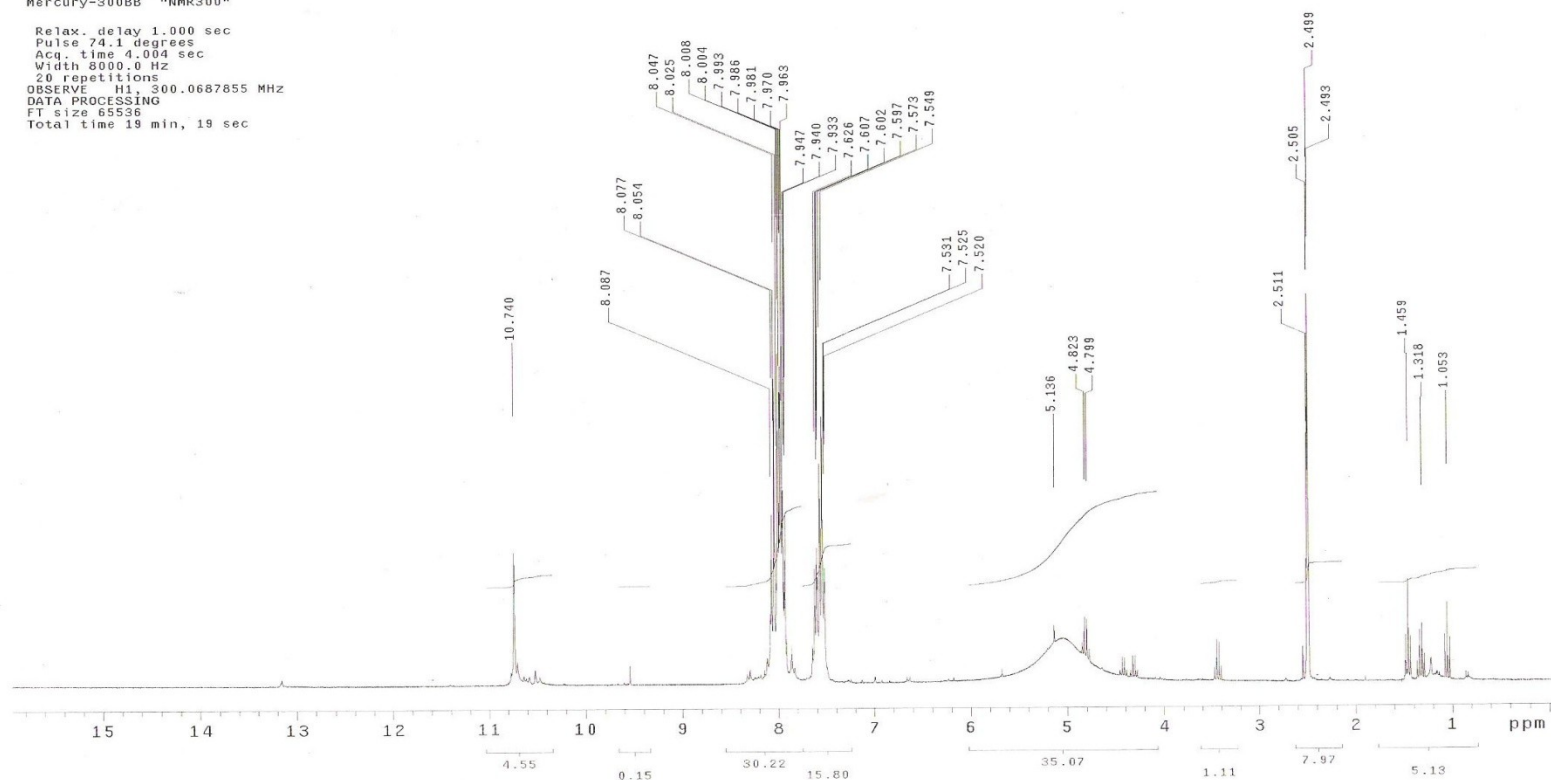


Figure (3.30) – ^1H -NMR spectrum of compound number XVIII

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

 Relax. delay 1.000 sec
 Pulse 74.1 degrees
 Acq. time 4.004 sec
 Width 8000.0 Hz
 11 repetitions
 OBSERVE H1, 300.0687855 MHz
 DATA PROCESSING
 FT size 65536
 Total time 19 min, 19 sec

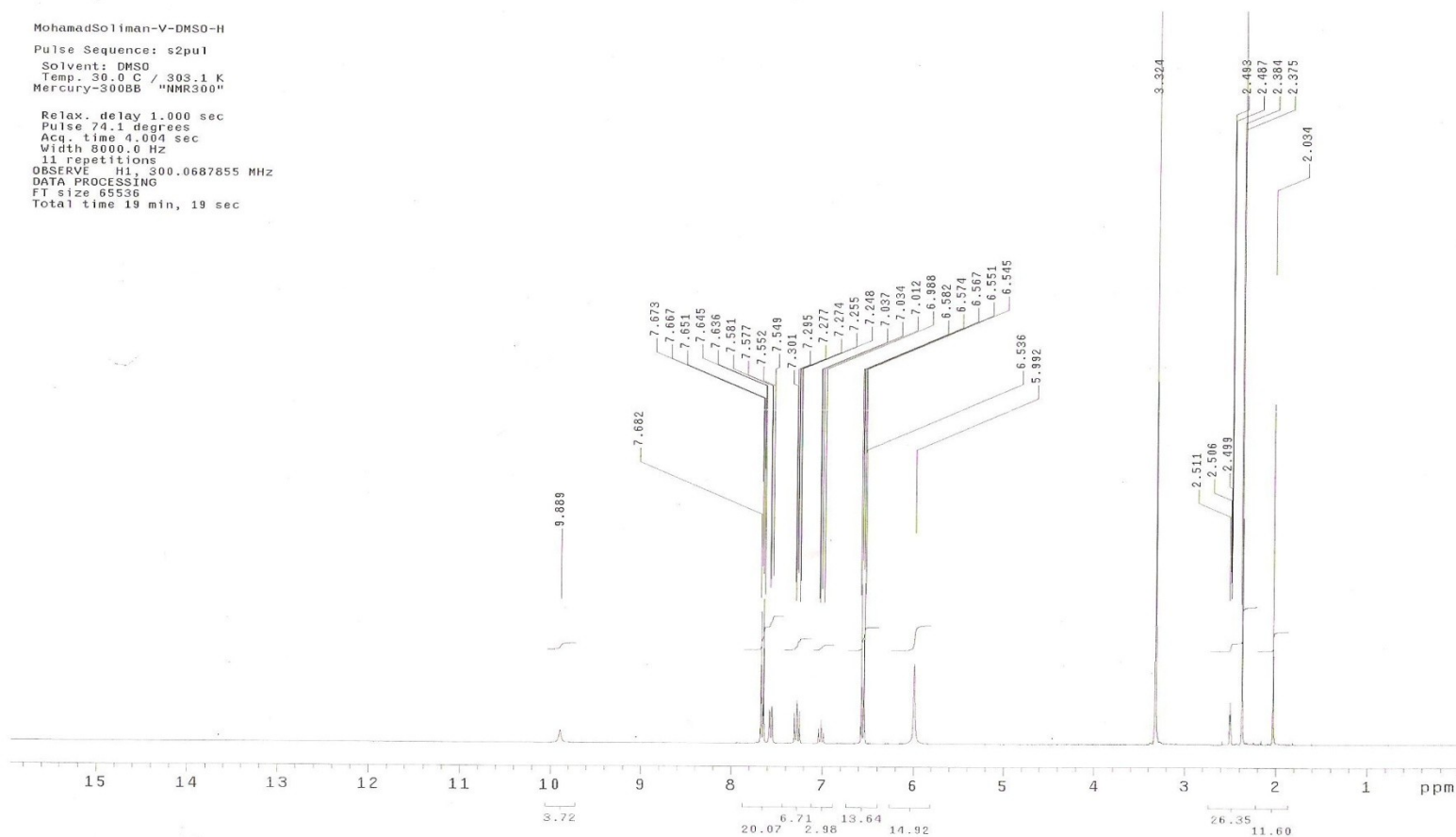


Figure (3.31) – ^1H -NMR spectrum of compound number VII