

Supporting Information-II

Organocatalyzed Enantioselective Michael addition/cyclization Cascade Reaction of 3-Isothiocyanatooxindole with Arylidene Malonates

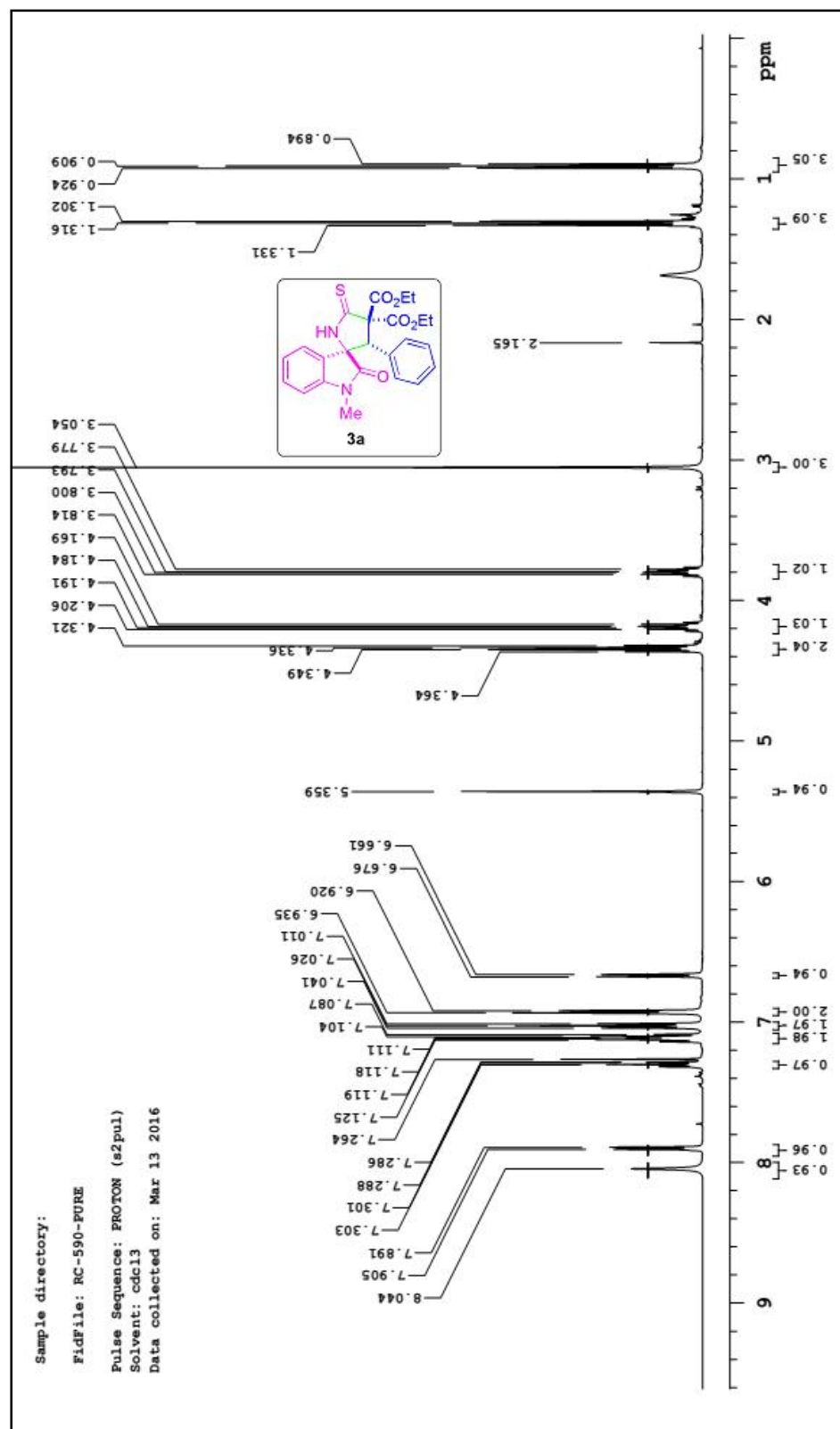
Raghunath Chowdhury,^{*a} Mukesh Kumar^b and Sunil K. Ghosh^{*a}

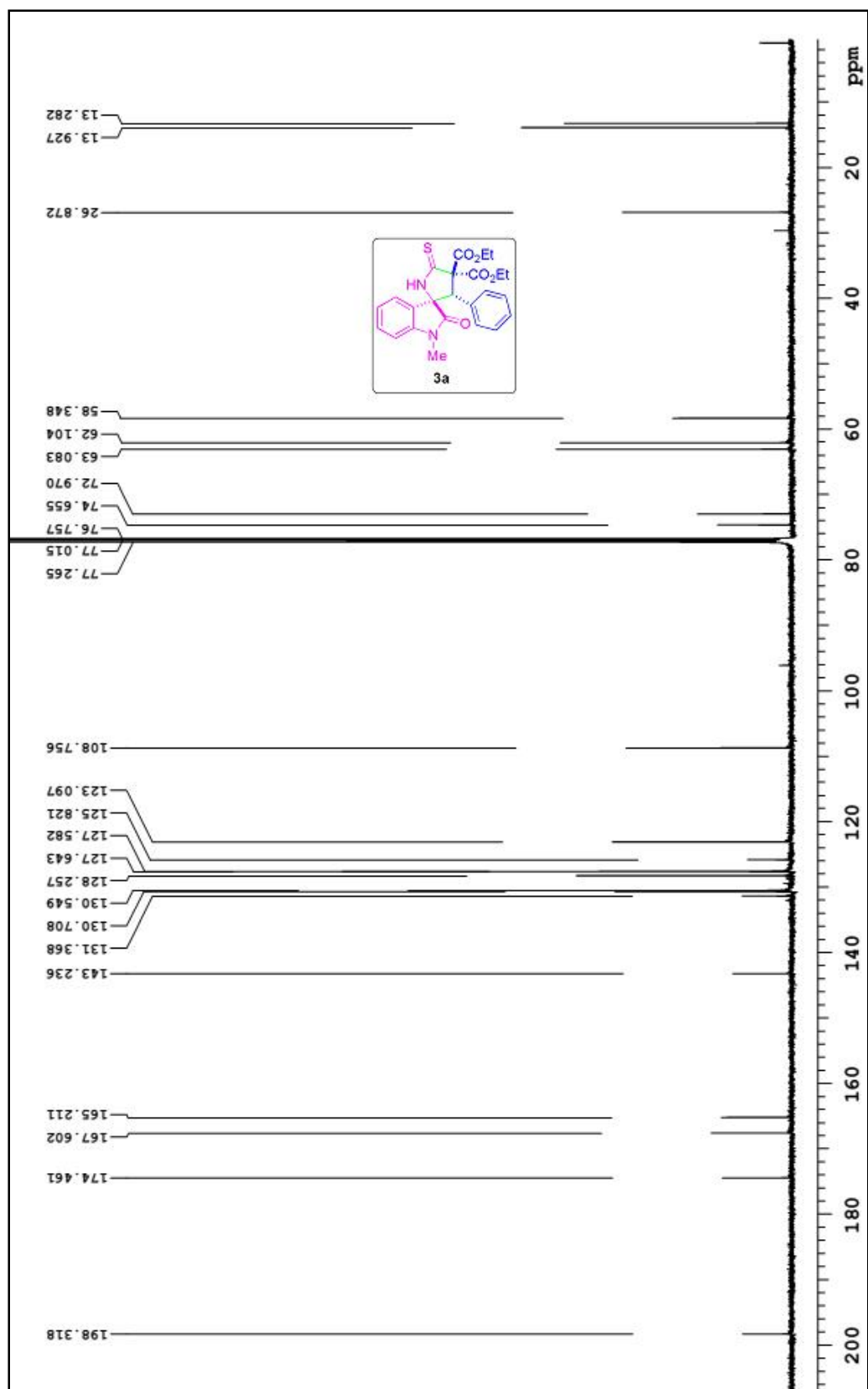
^a*Bio-Organic Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085*

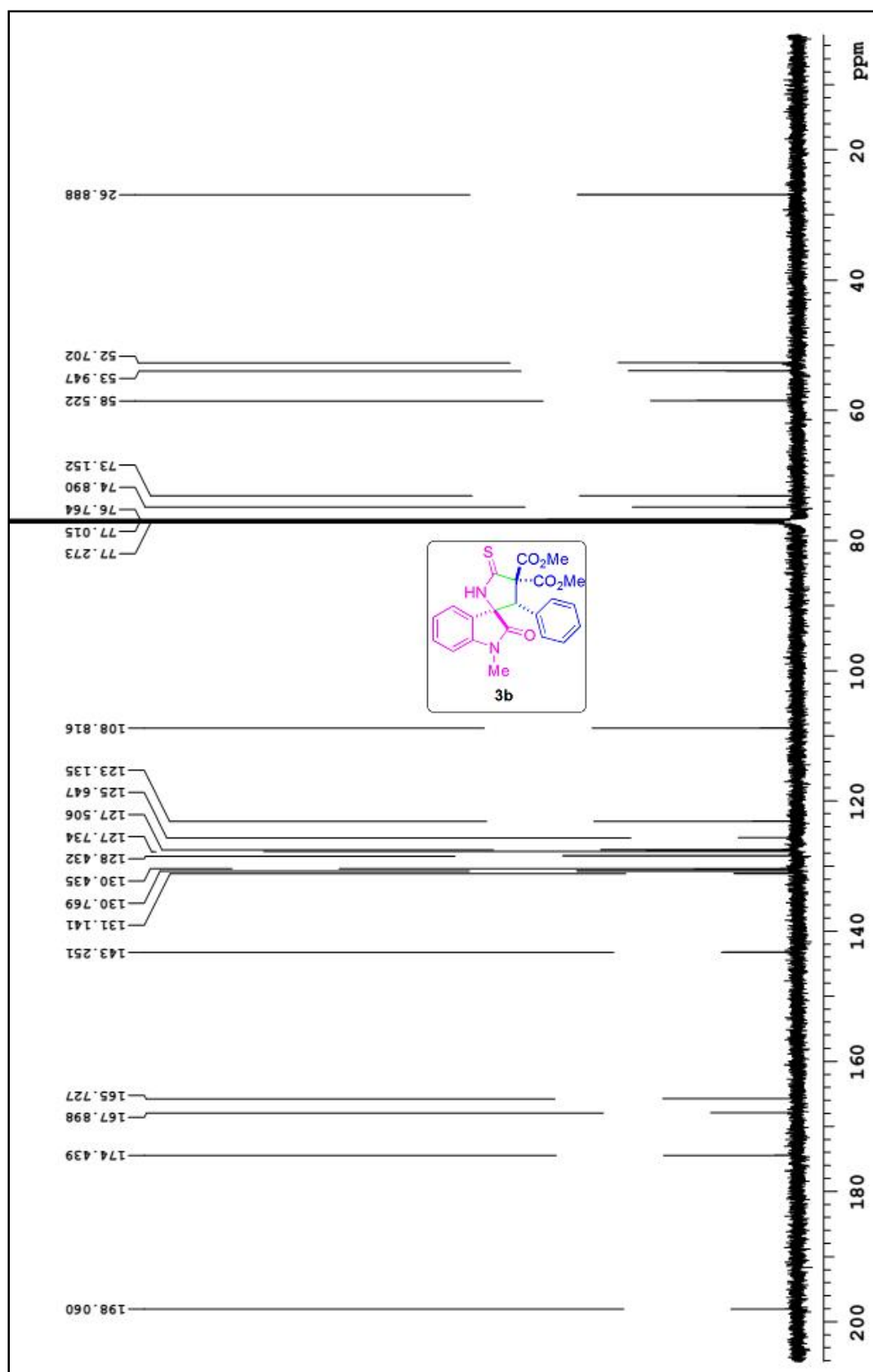
^b*Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085*

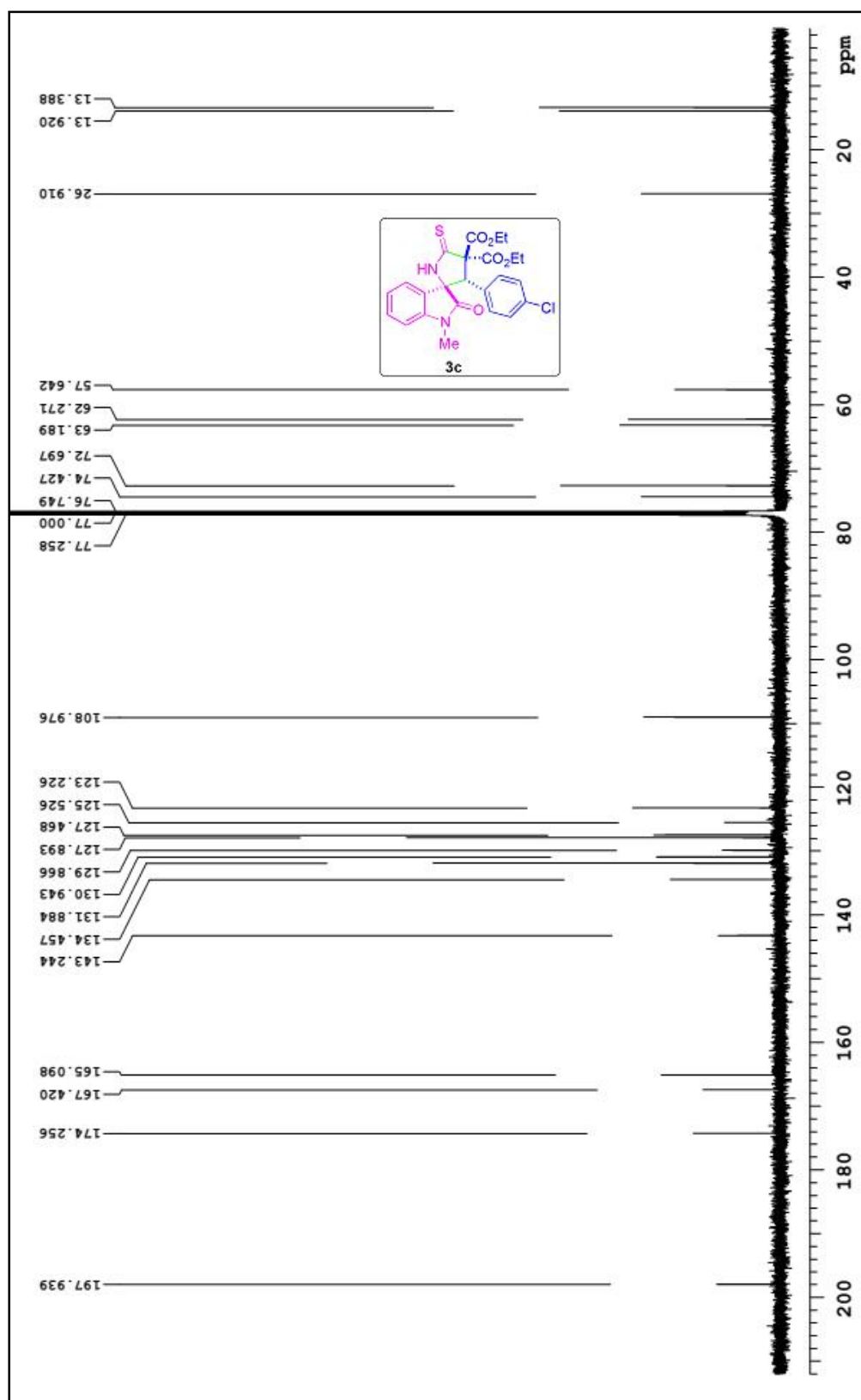
E-mail: raghuc@barc.gov.in

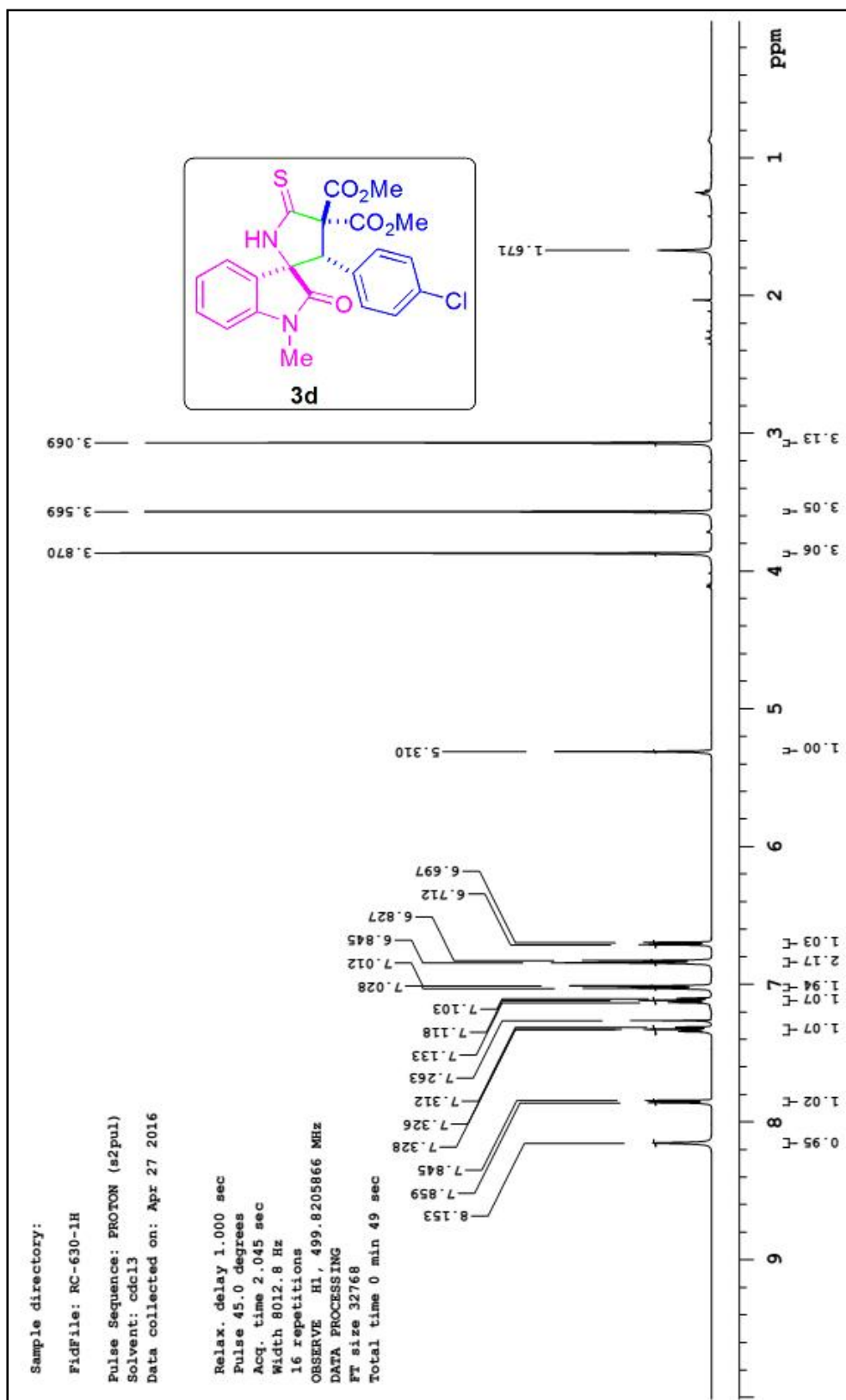
Tel: +91-22-25592299

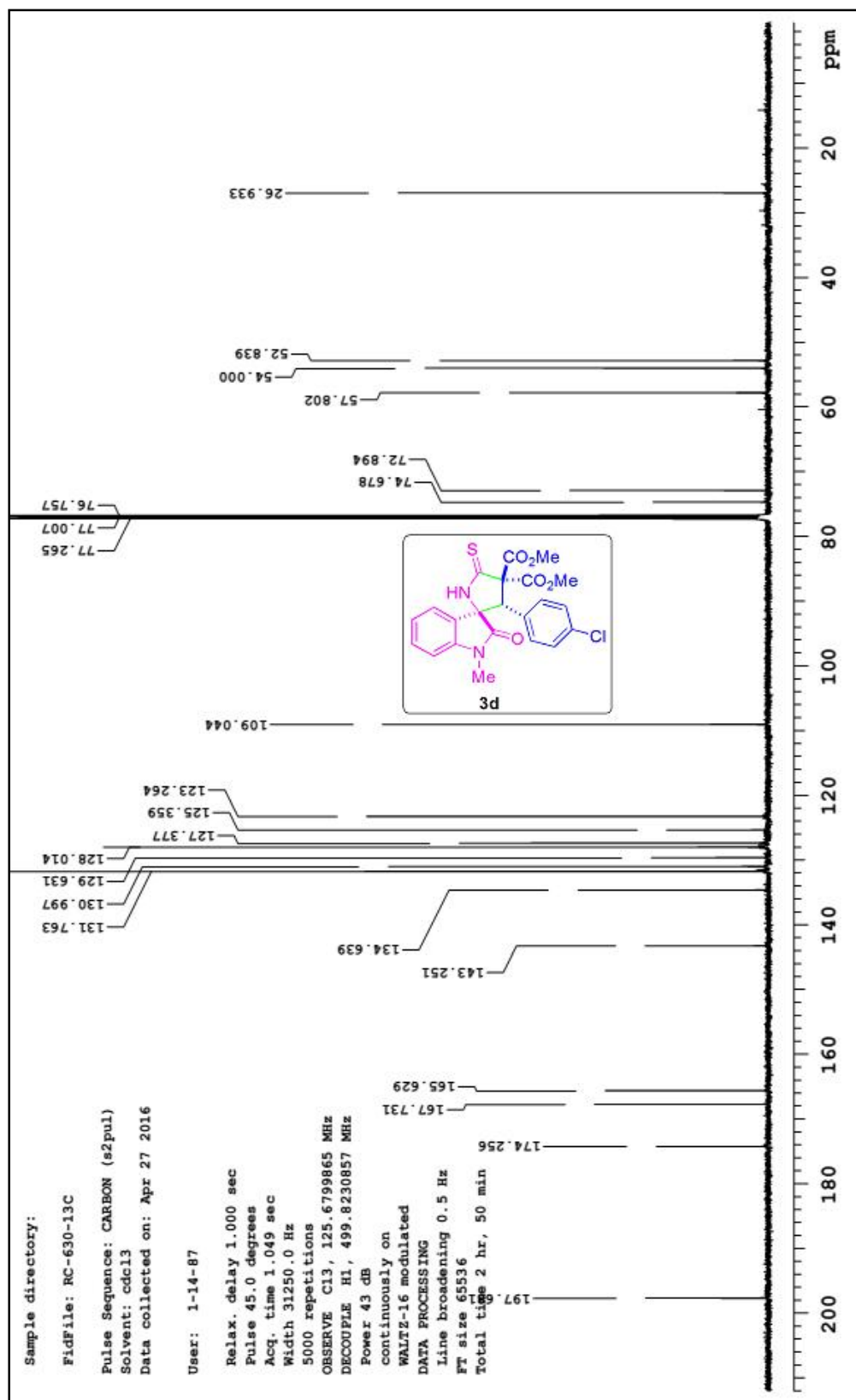


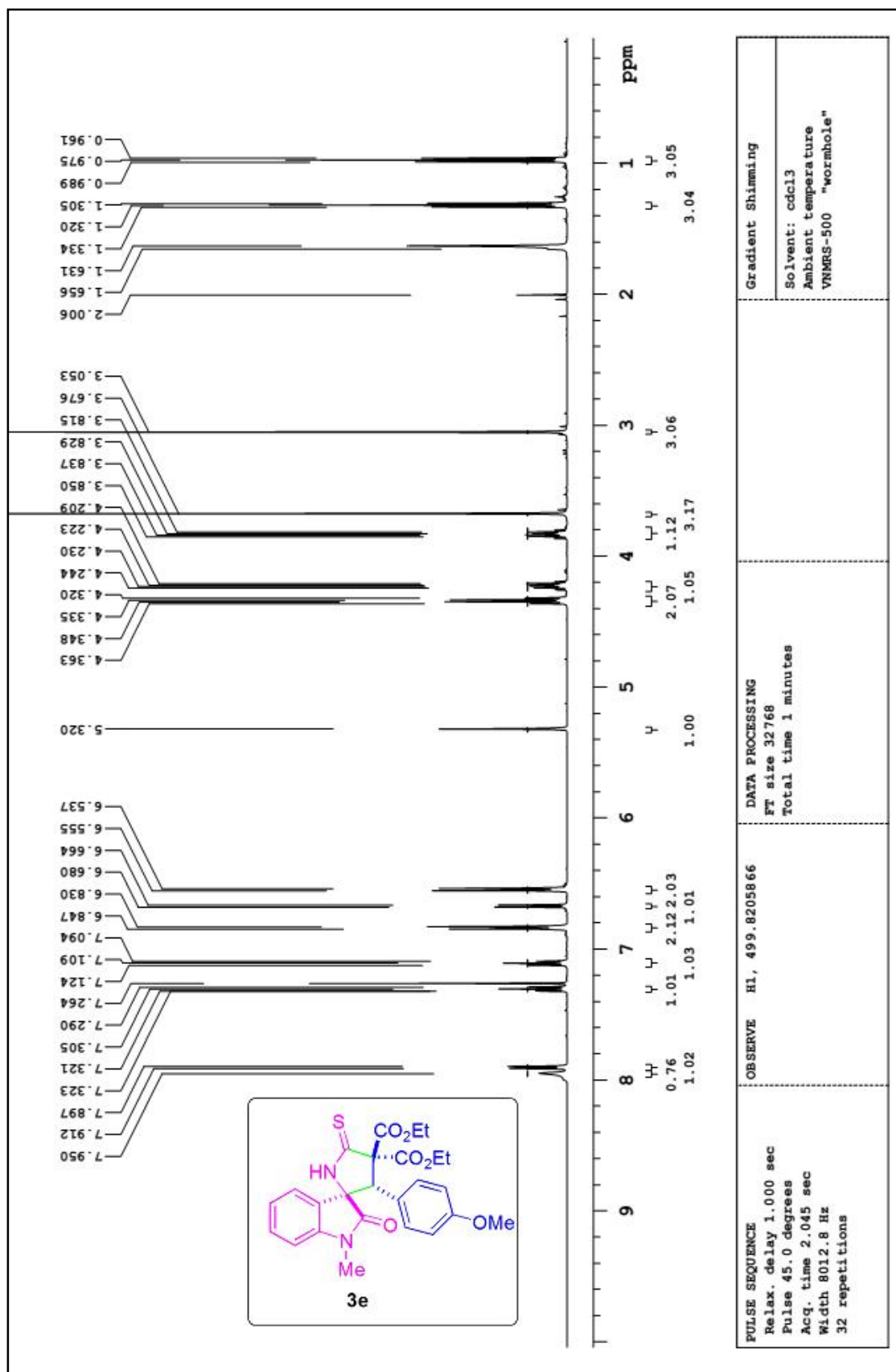


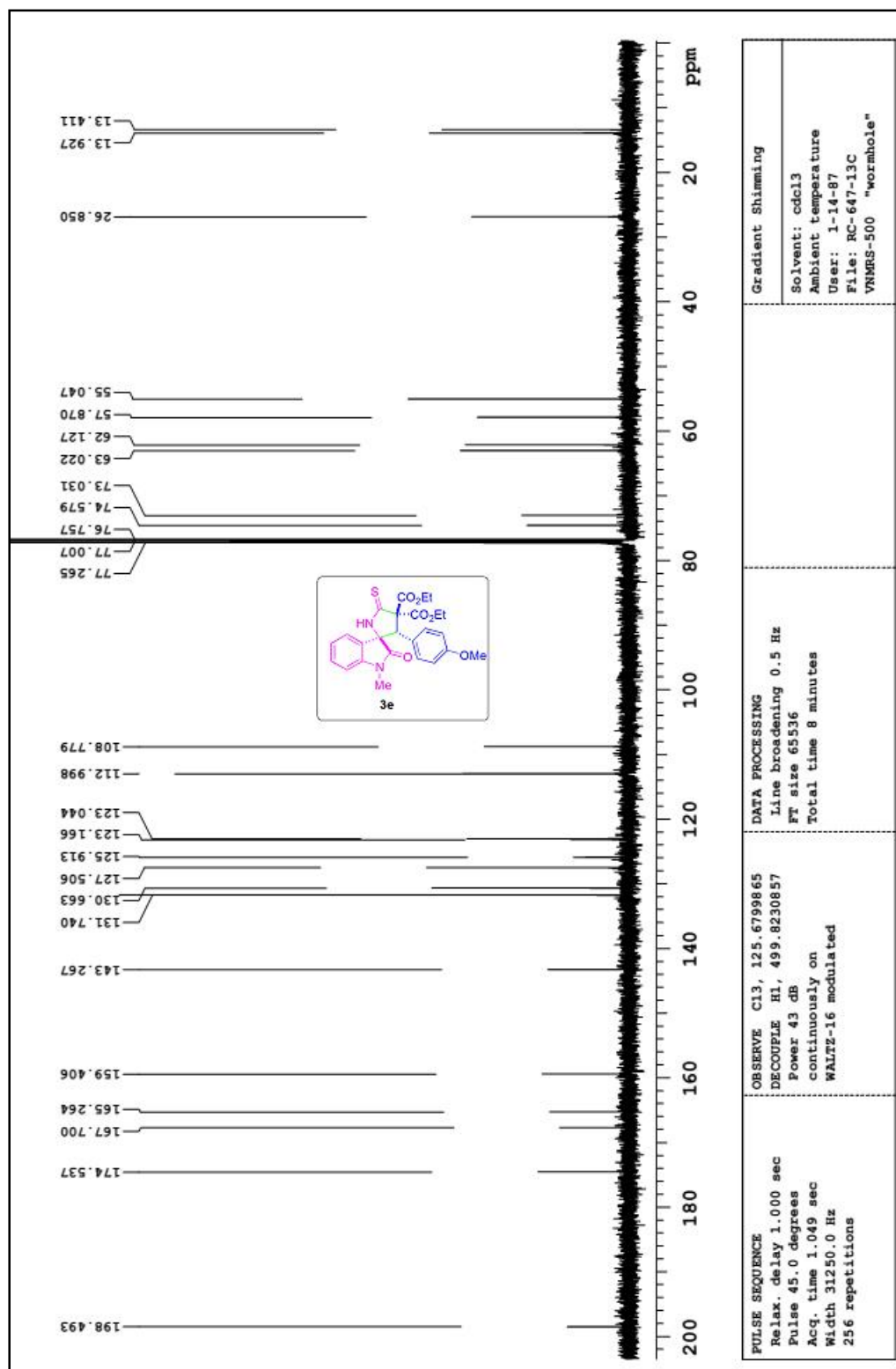


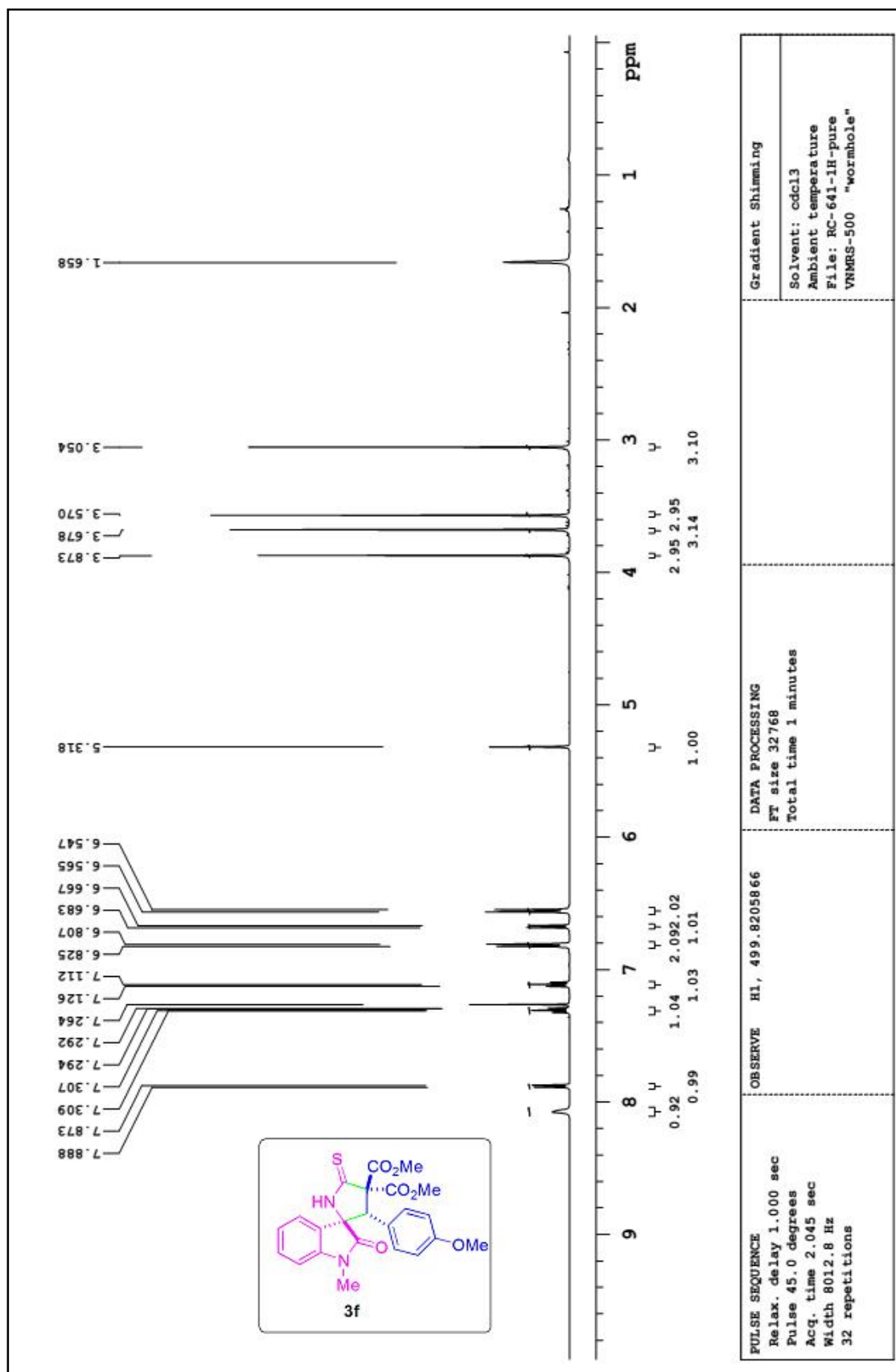


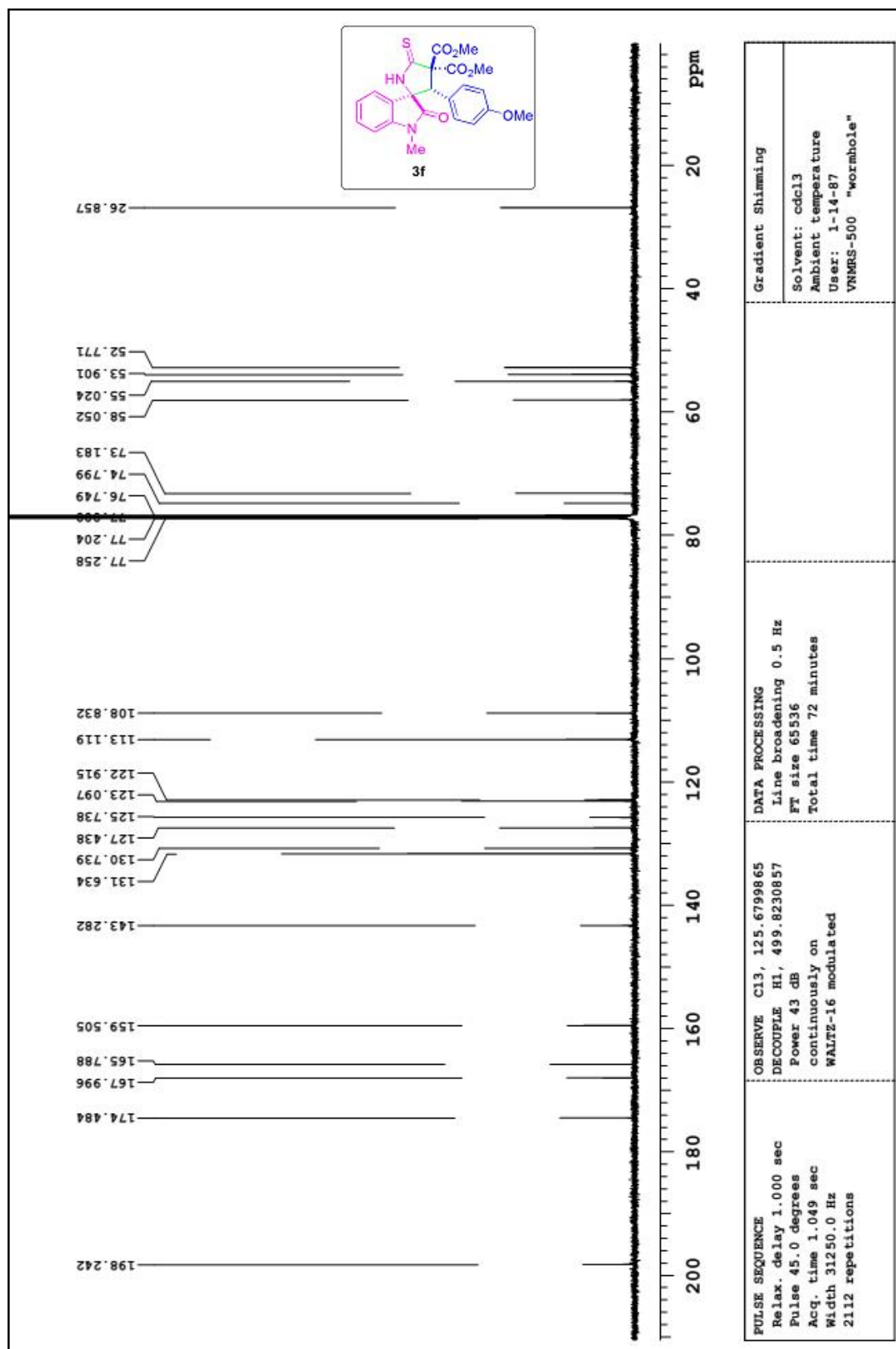












Gradient Shimming

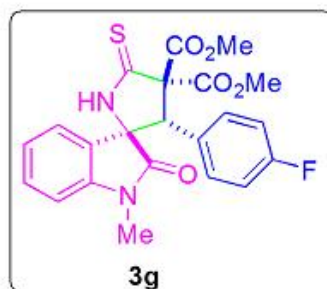
Sample Name:
RC-621-CRUDE
Data Collected on:
wormhole-vmars500
Archive directory:

Sample directory:

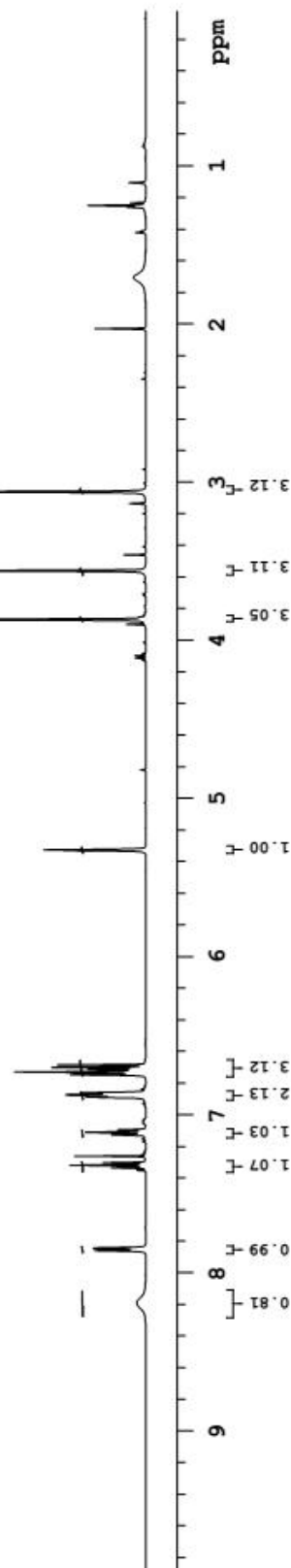
FidFile: RC-621-1H

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Apr 19 2016

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.045 sec
Width 8012.8 Hz
16 repetitions
OBSERVE H1, 499.8205866 MHz
DATA PROCESSING
FT size 32768
Total time 0 min 49 sec



INDEX	FREQUENCY	PPM	HEIGHT
1	3928.2	7.859	8.2
2	3920.4	7.844	8.4
3	3859.2	7.321	12.1
4	3651.4	7.305	6.9
5	3629.9	7.262	11.3
6	3554.5	7.112	9.7
7	3443.5	6.890	9.6
8	3438.2	6.879	12.2
9	3436.2	6.875	12.8
10	3434.7	6.872	12.5
11	3430.8	6.864	10.0
12	3429.3	6.861	10.6
13	3372.6	6.748	12.1
14	3363.8	6.730	21.0
15	3355.0	6.712	9.2
16	3349.6	6.702	15.1
17	3341.8	6.686	14.1
18	2662.0	5.326	16.3
19	1933.8	3.869	78.7
20	1779.7	3.561	96.1
21	1530.3	3.082	106.3
22	1014.4	2.029	8.2
23	625.1	1.251	9.3



Sample directory:

FidFile: RC-621-13C

Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: Apr 19 2016

User: 1-14-87

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.049 sec

Width 31250.0 Hz

2192 repetitions

OBSERVE C13, 125.6799865 MHz

DECOUPLE H1, 499.8230857 MHz

Power 43 dB

continuously on

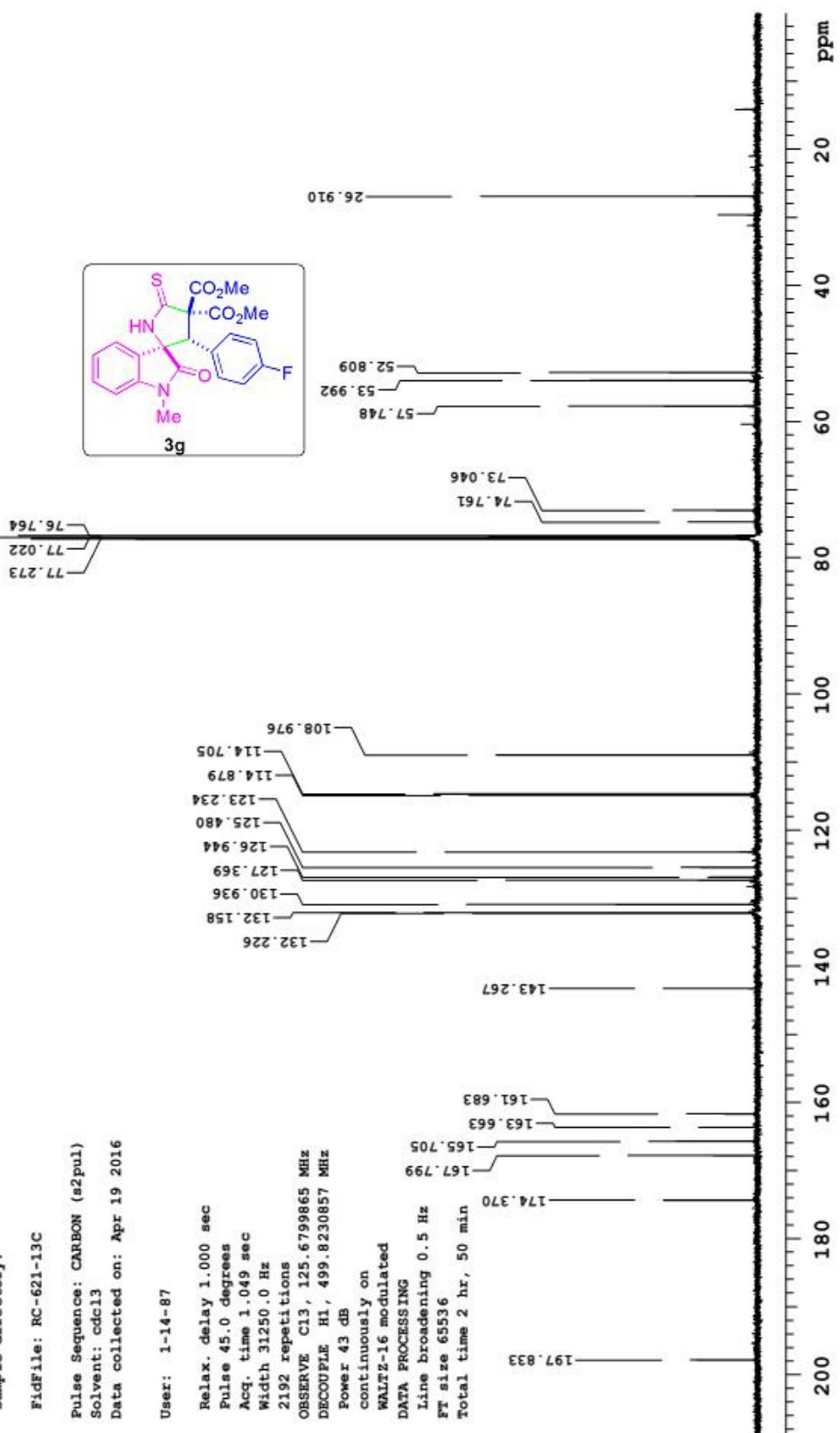
WALTZ-16 modulated

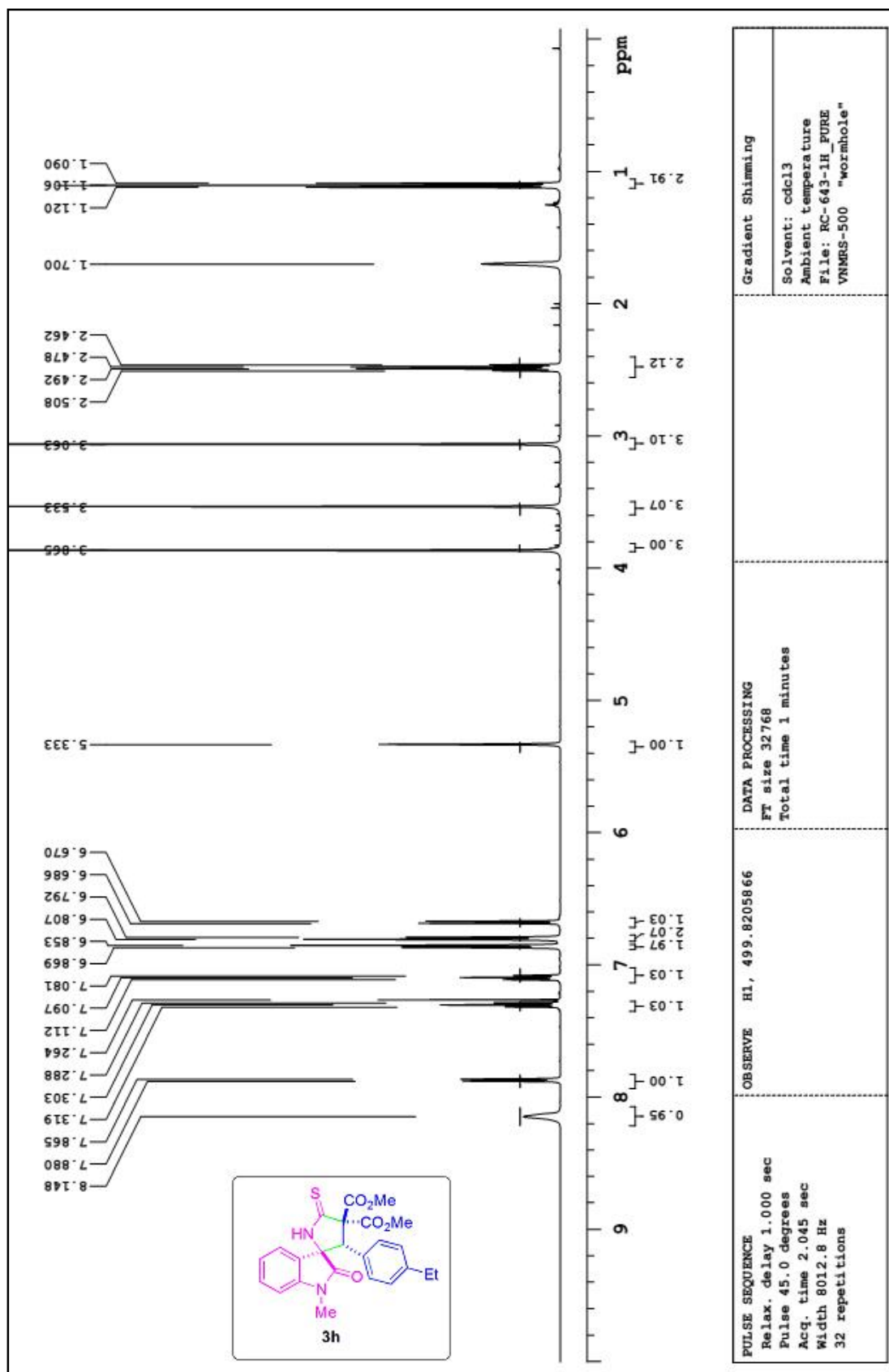
DATA PROCESSING

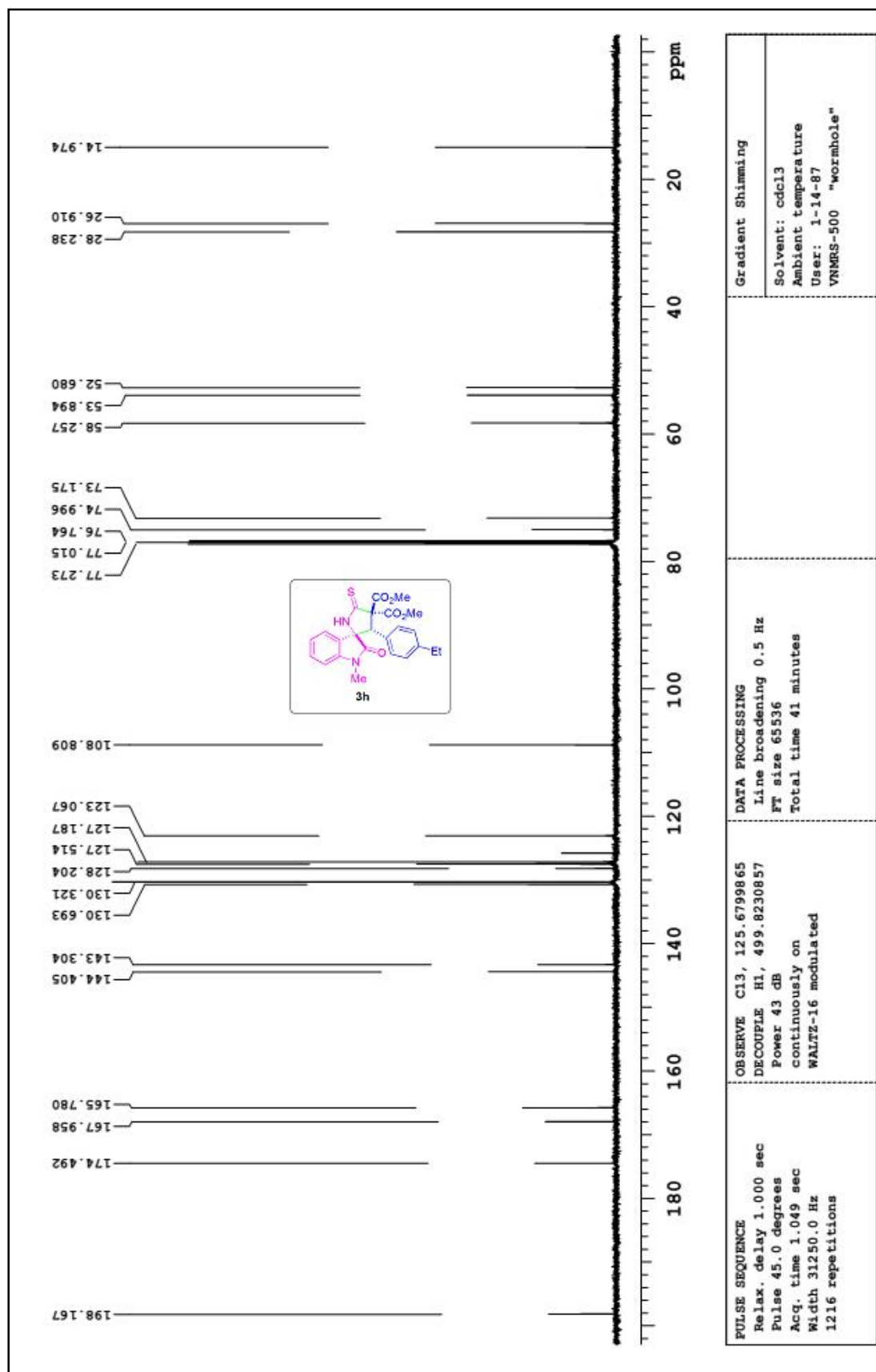
Line broadening 0.5 Hz

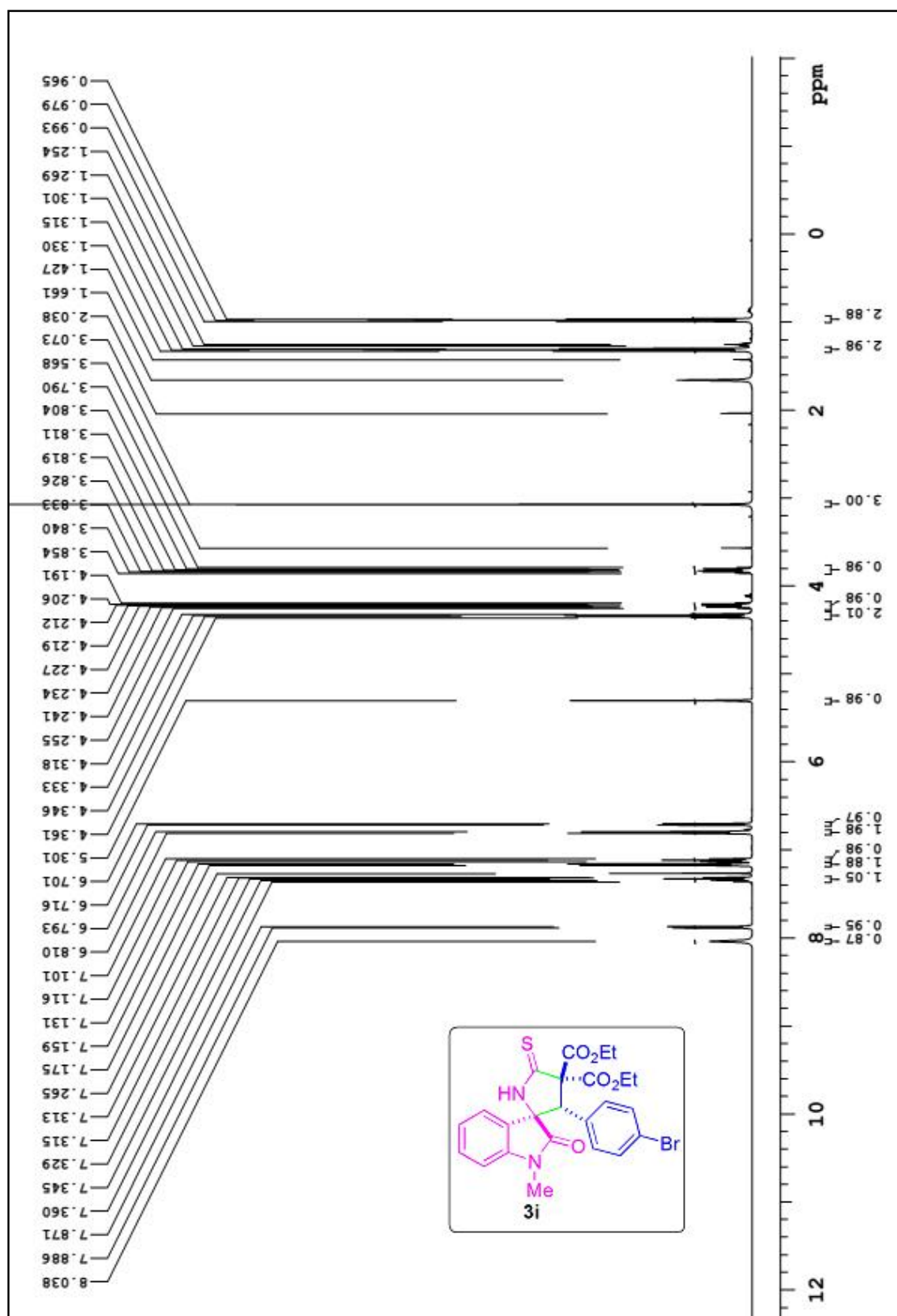
FT size 65536

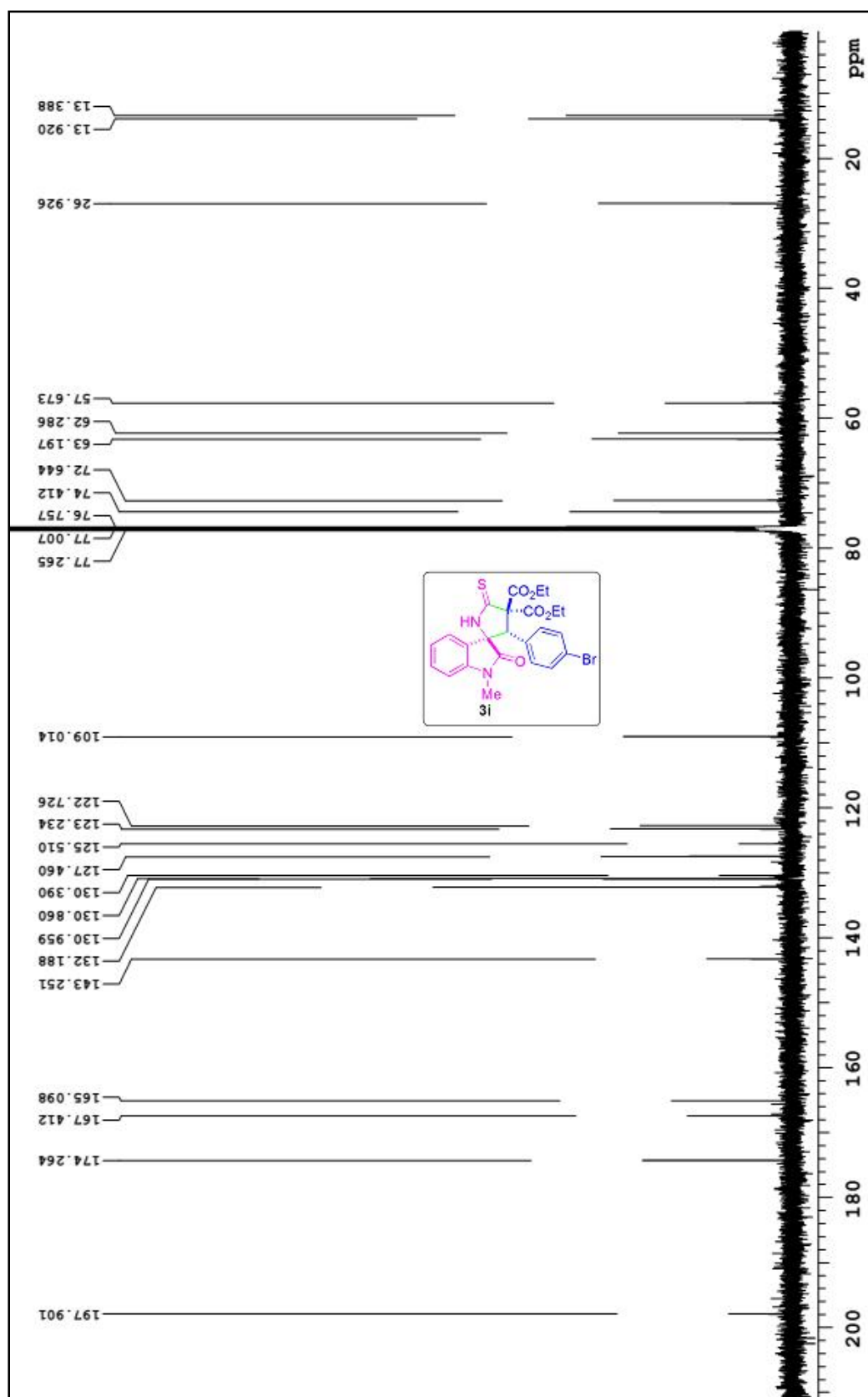
Total time 2 hr, 50 min

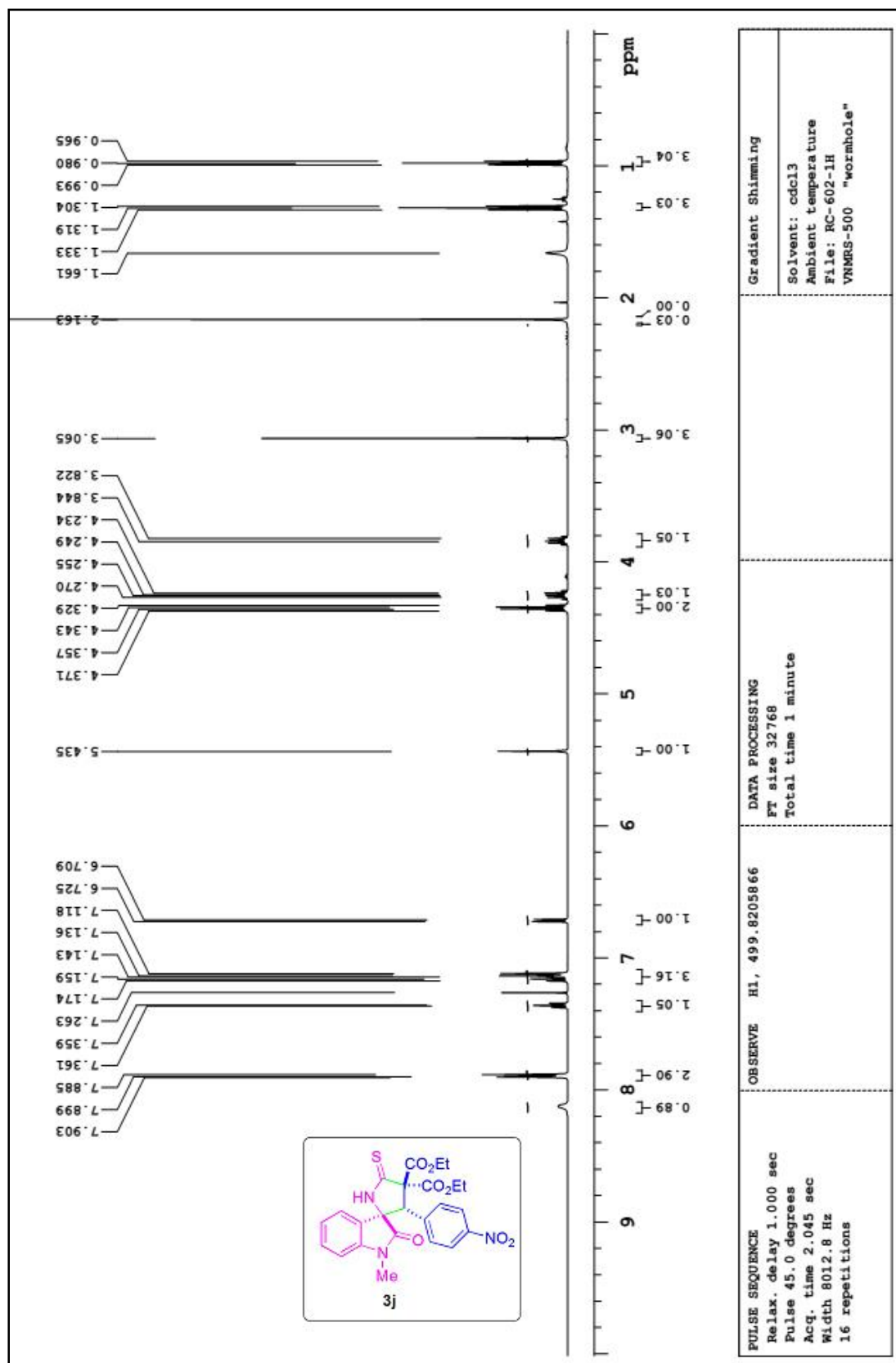


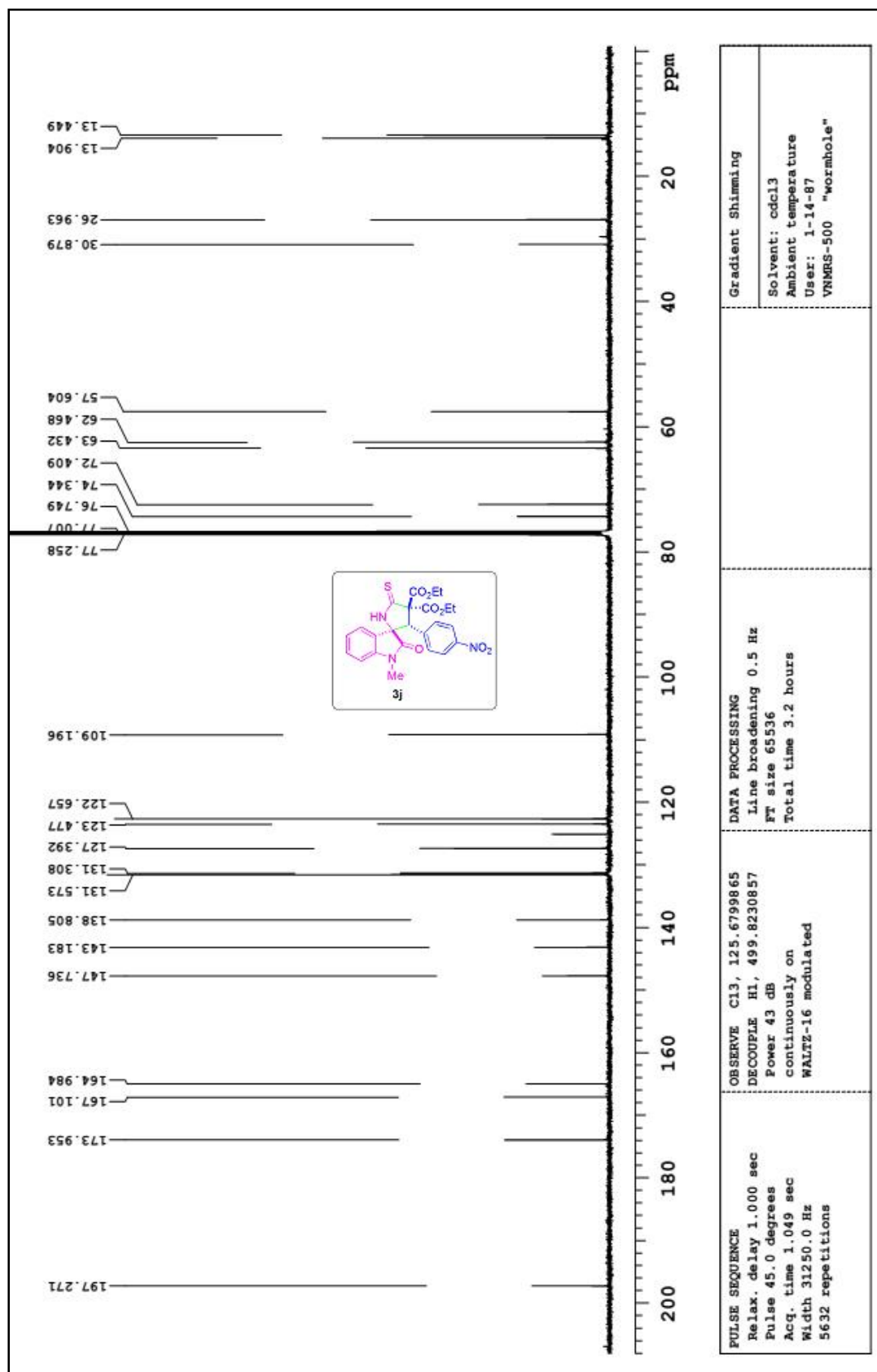












Archive directory:

Archive directory:

Sample directory:

Fidfile: RC-625-1H-CRYSTAL
Pulse Sequence: PROTON (s2pu1)
Solvent: cdcl3
Data collected on: Apr 28 2015

Relax. delay 1.000 sec	
Pulse 45.0 degrees	
Acq. time 2.045 sec	
Width 8012.8 Hz	
32 repetitions	
OBSERVE H1, 499.8205866 MHz	
DATA PROCESSING	
Line broadening 0.5 Hz	
FT size 32768	
Total time 1 min 37 sec	

