

Supporting information
for
Cytotoxic Assessment of 3,3-Dichloro- β -Lactams
Prepared through Microwave-Assisted Benzylic C-H
Activation from Benzyl-Tethered Trichloroacetamides
Catalyzed by $\text{RuCl}_2(\text{PPh}_3)_3$

Faïza Diaba^{1,*}, Alexandra G. Sandor¹ and María del Carmen Morán^{2,3}
faiza.diaba@ub.edu

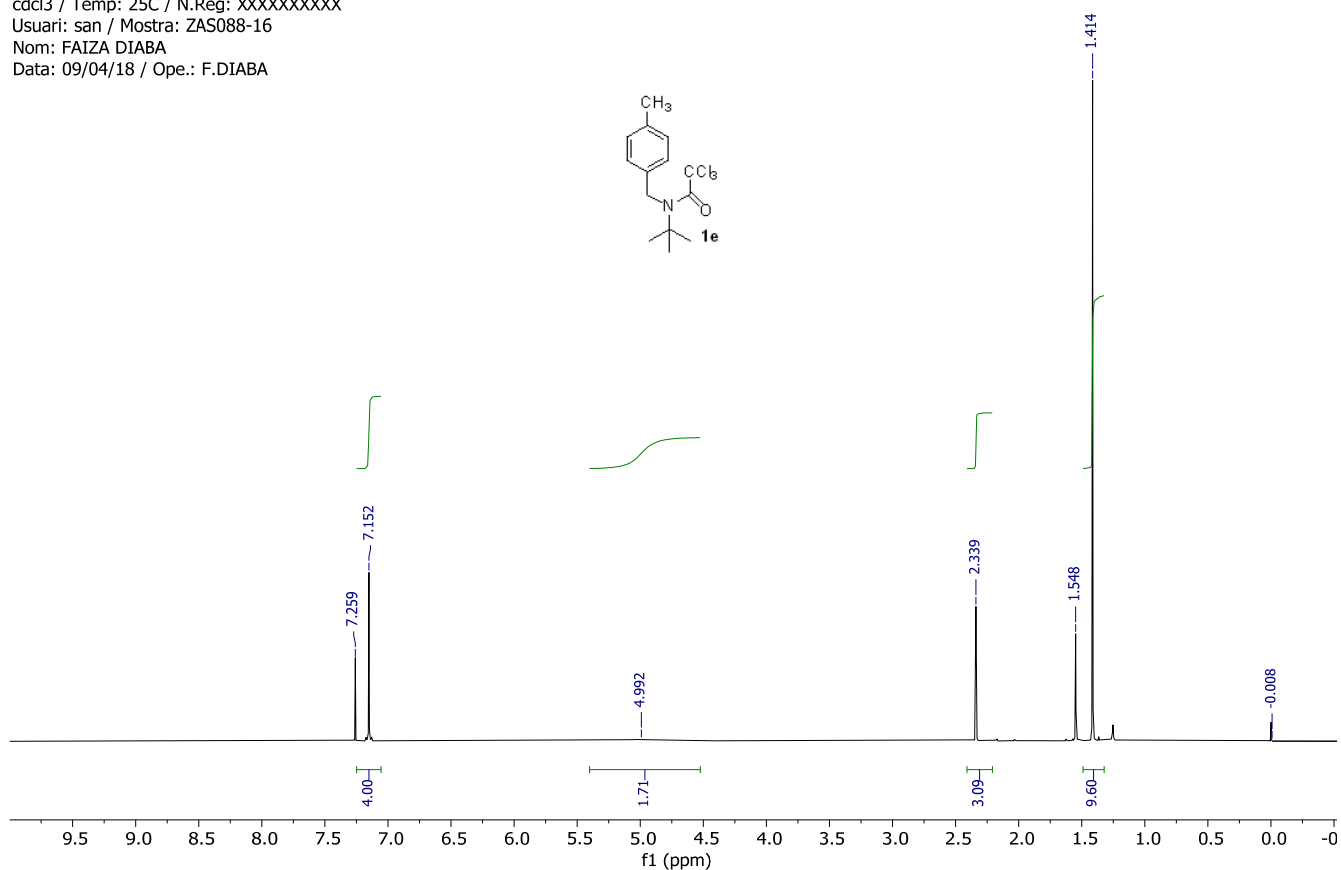
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- Copies of ¹H NMR and ¹³C NMR spectra of compounds **1-2** S2-S14

VNMRS400A_09042018_ZAS088-16-H1
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 cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: ZAS088-16
 Nom: FAIZA DIABA
 Data: 09/04/18 / Ope.: F.DIABA



VNMRS400A_10042018_ZAS088-16-C13
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 cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: ZAS088-16
 Nom: FAIZA DIABA
 Data: 10/04/18 / Ope.: F.DIABA

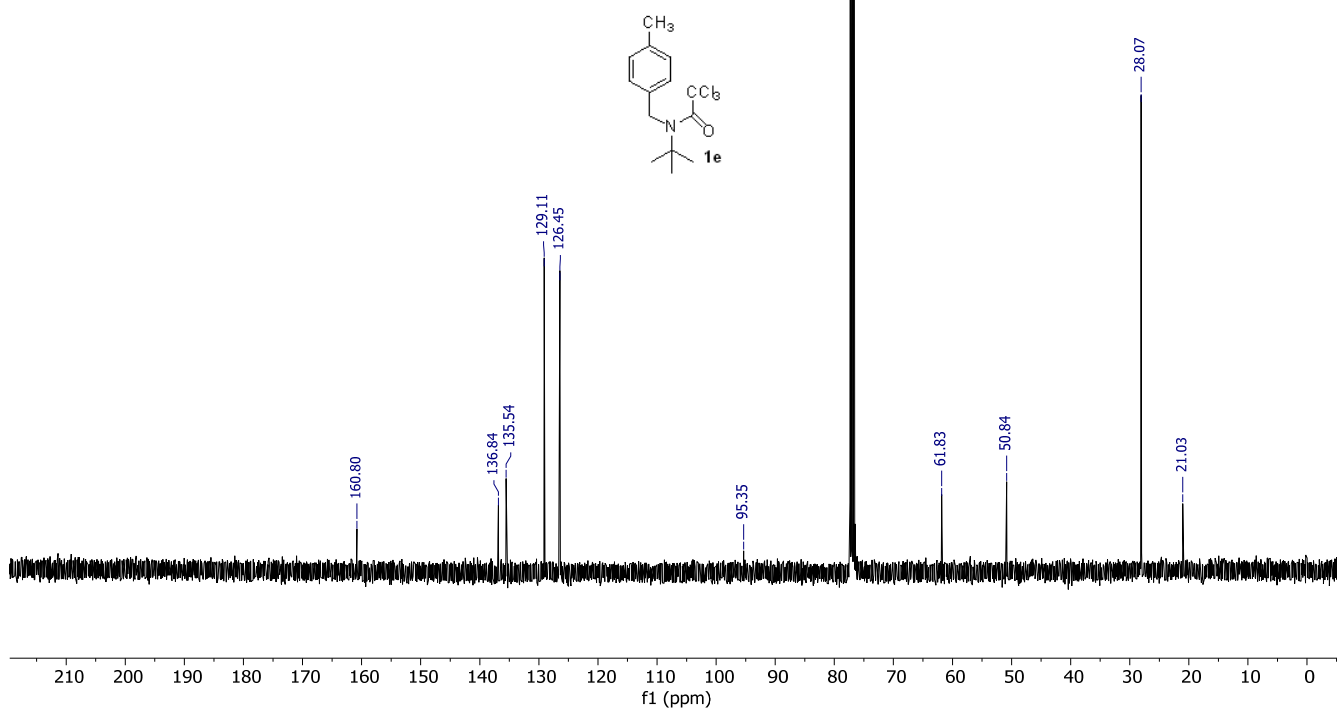
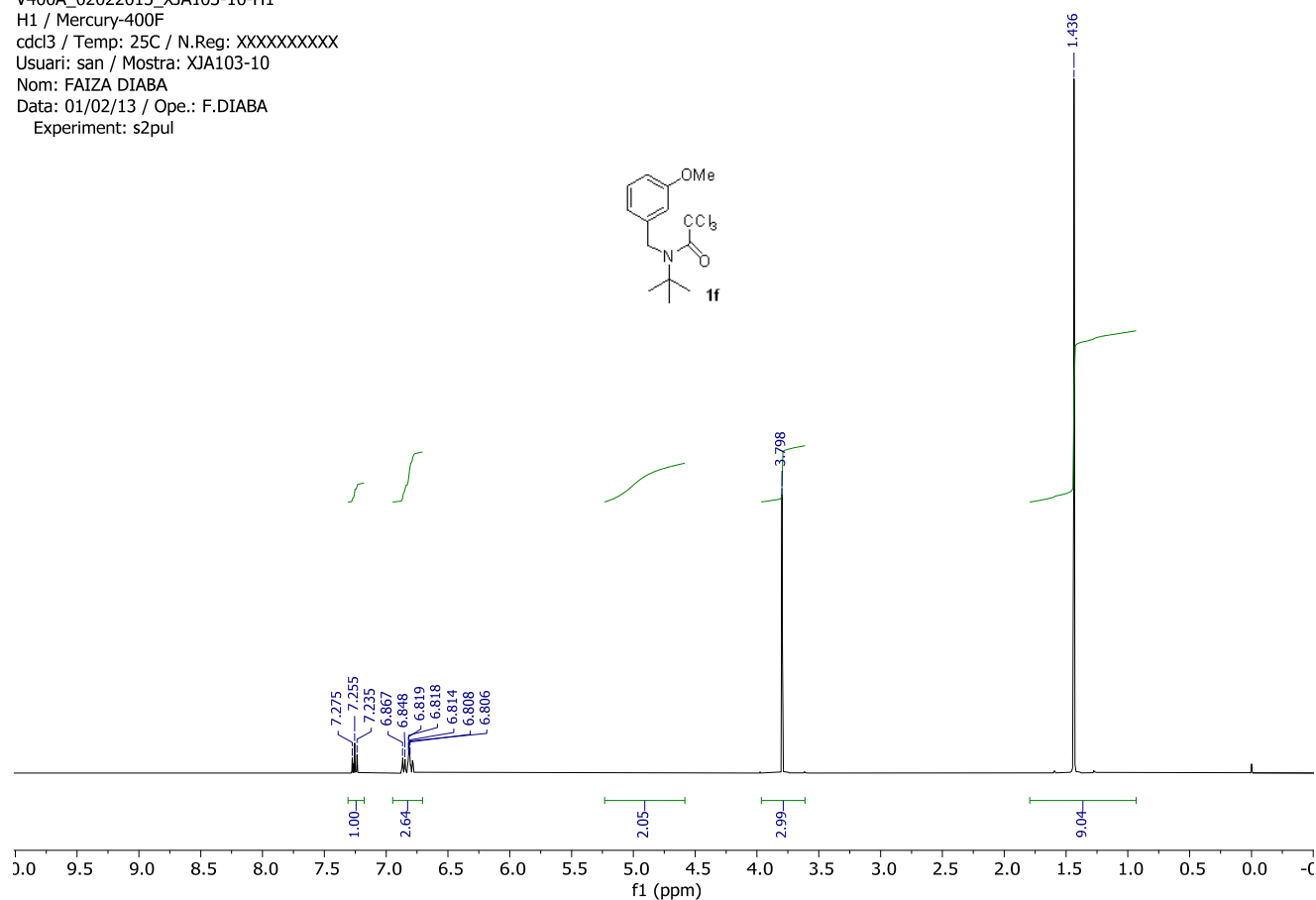
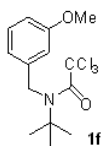


Figure S1

V400A_02022013_XJA103-10-H1
H1 / Mercury-400F
cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: XJA103-10
Nom: FAIZA DIABA
Data: 01/02/13 / Ope.: F.DIABA
Experiment: s2pul



V400A_02022013_XJA103-10-C13
H1 / Mercury-400F
cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: XJA103-10
Nom: FAIZA DIABA
Data: 01/02/13 / Ope.: F.DIABA
Experiment: s2pul

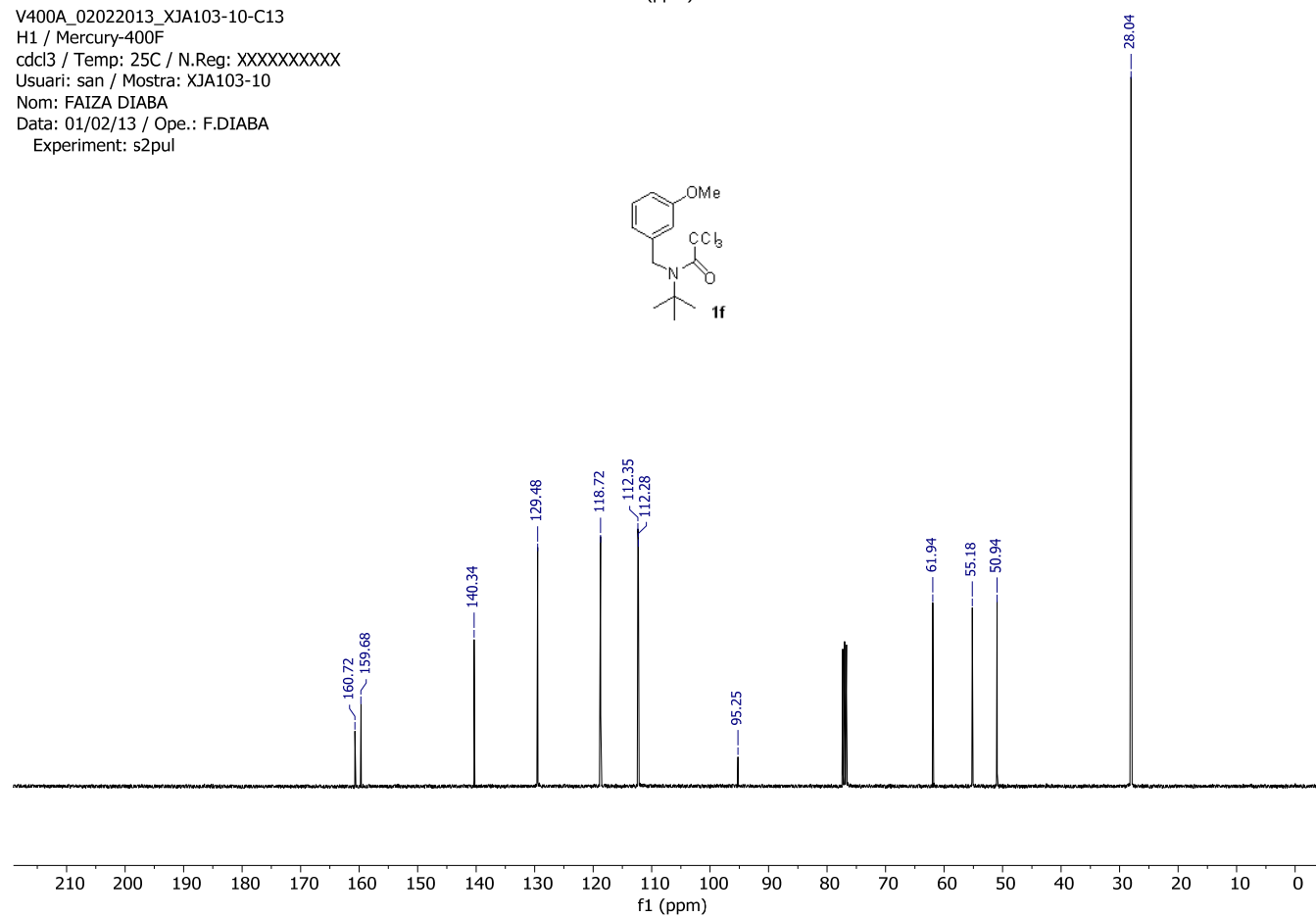
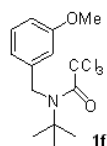
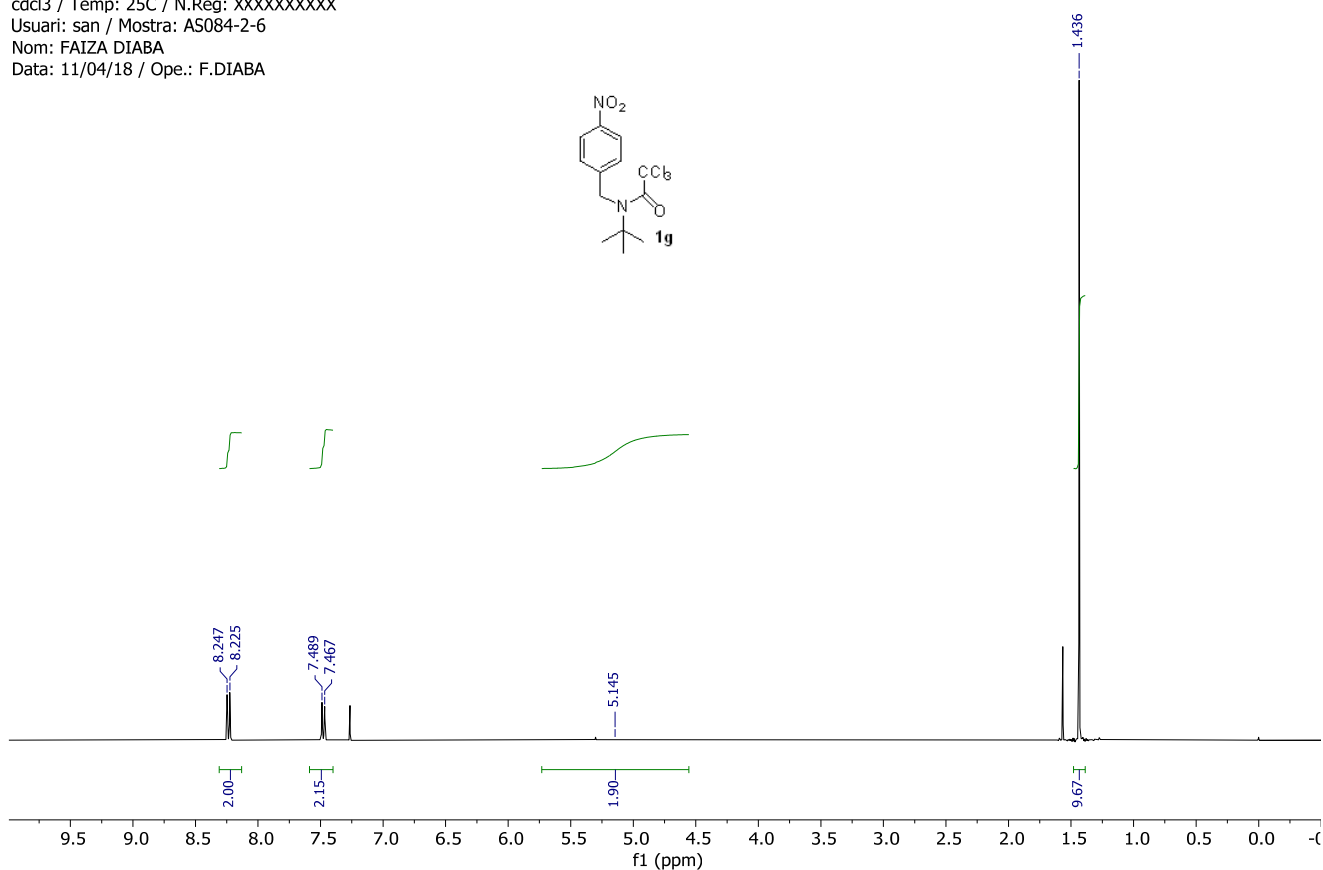
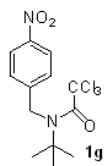


Figure S2

M400AFF_11042018_AS084-2-6-H1
M400F / Num.Inv. 1009191
cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AS084-2-6
Nom: FAIZA DIABA
Data: 11/04/18 / Ope.: F.DIABA



VNMRS400A_11042018_AS084-2-6-C13
VNMRS400F / Num.Inv. 205984
cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AS084-2-6
Nom: FAIZA DIABA
Data: 11/04/18 / Ope.: F.DIABA

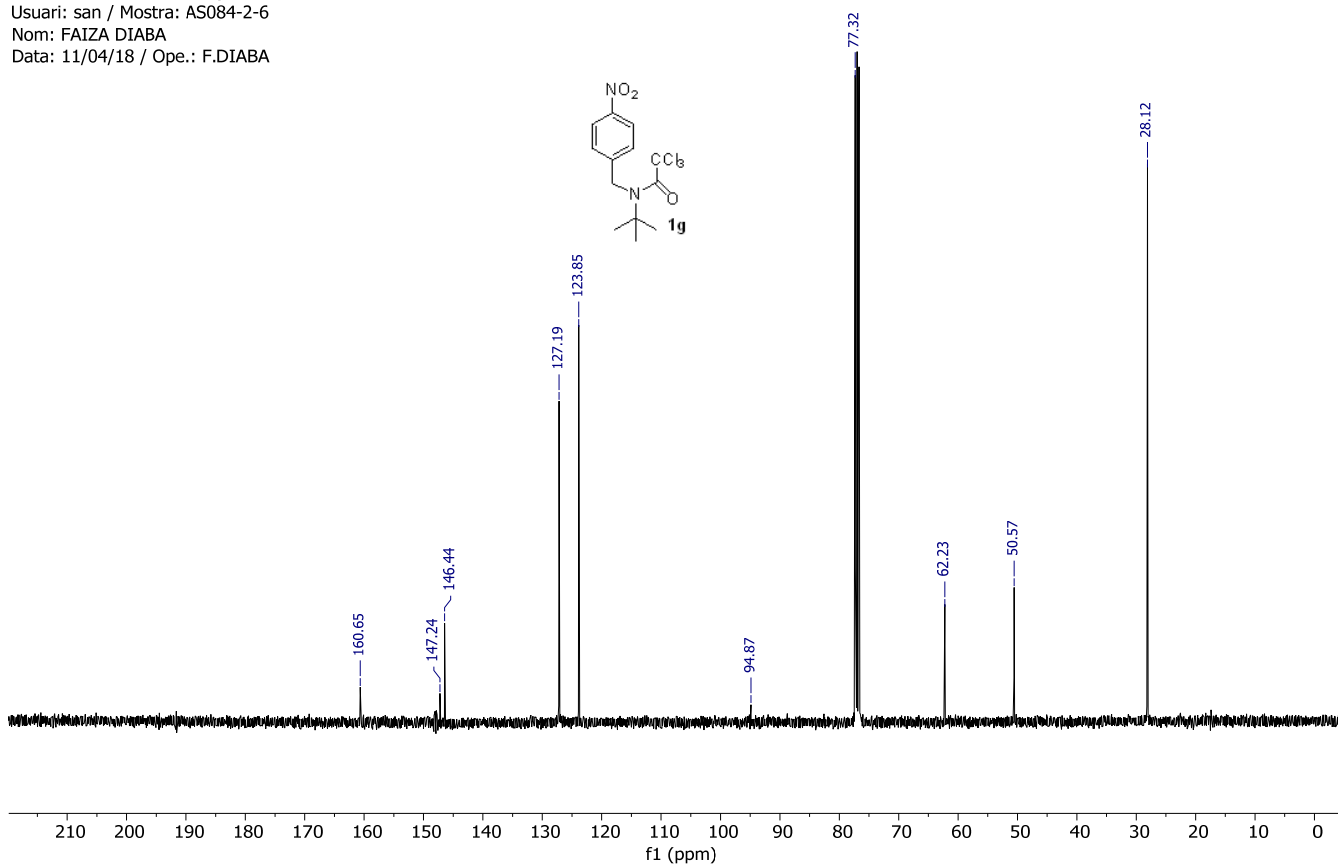
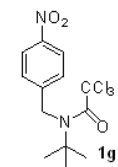
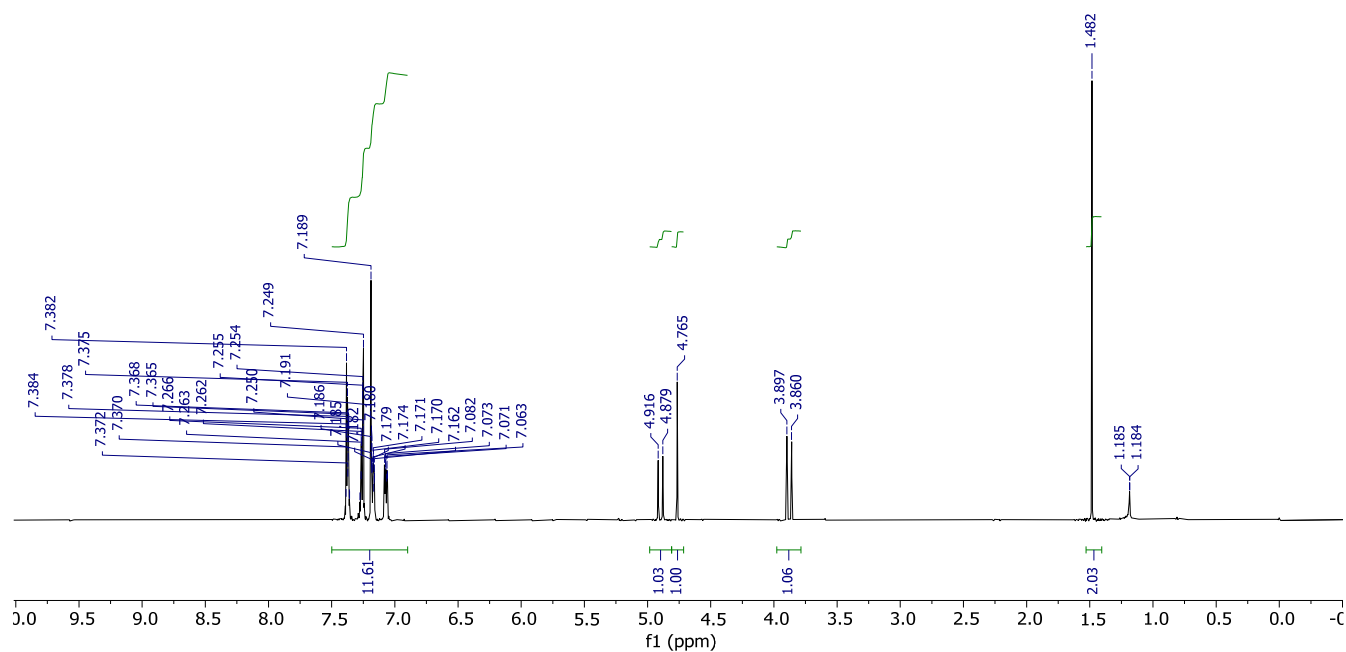
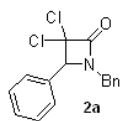


Figure S3

M400AFF_22052017_AS020-10-H1
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cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AS020-10
Nom: FAIZA DIABA
Data: 22/05/17 / Ope.: F.DIABA



VNMRS400A_31052017_AC020-10-C13
VNMRS400F / Num.Inv. 205984
cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AC020-10
Nom: FAIZA DIABA
Data: 31/05/17 / Ope.: F.DIABA

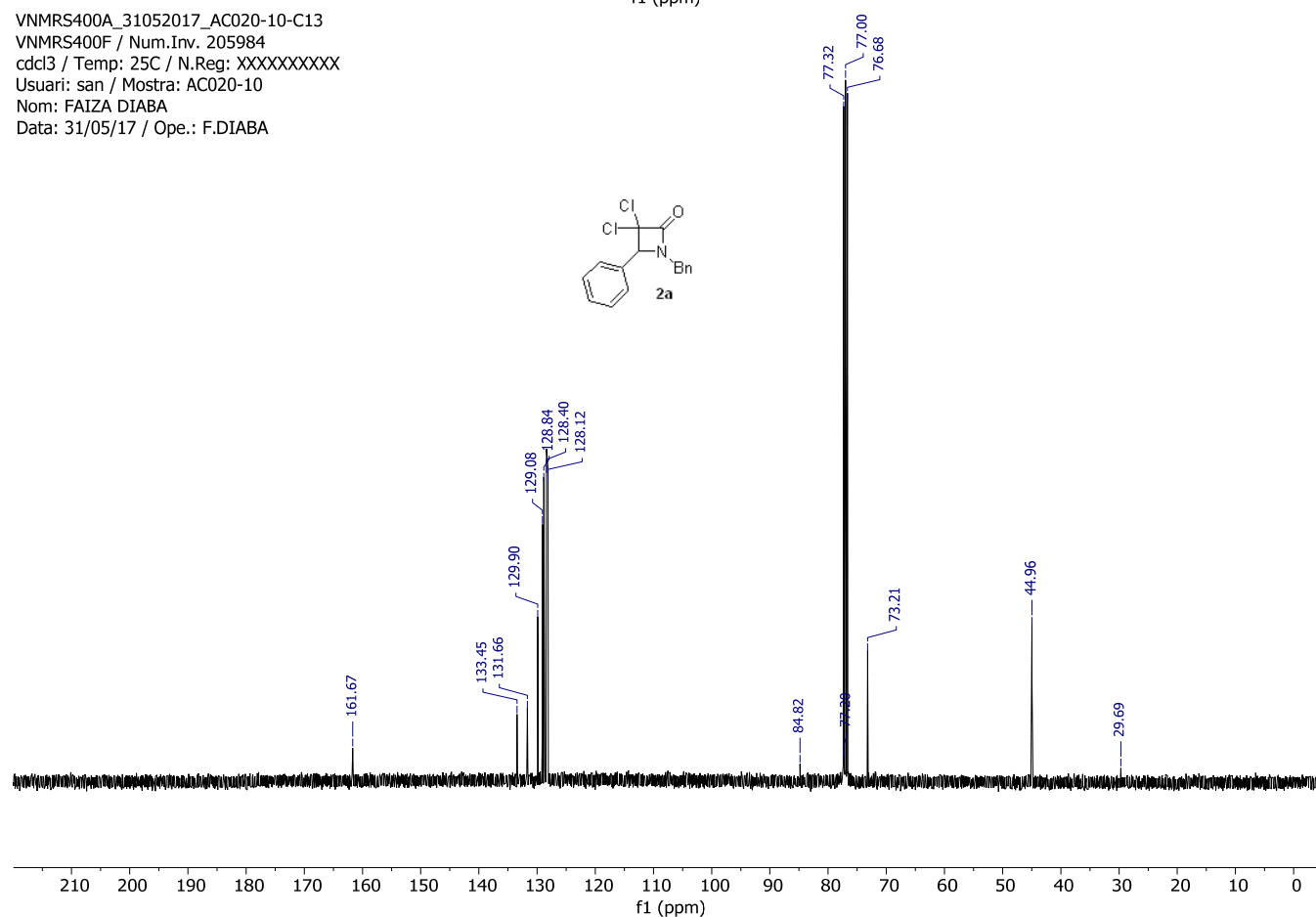
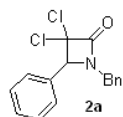
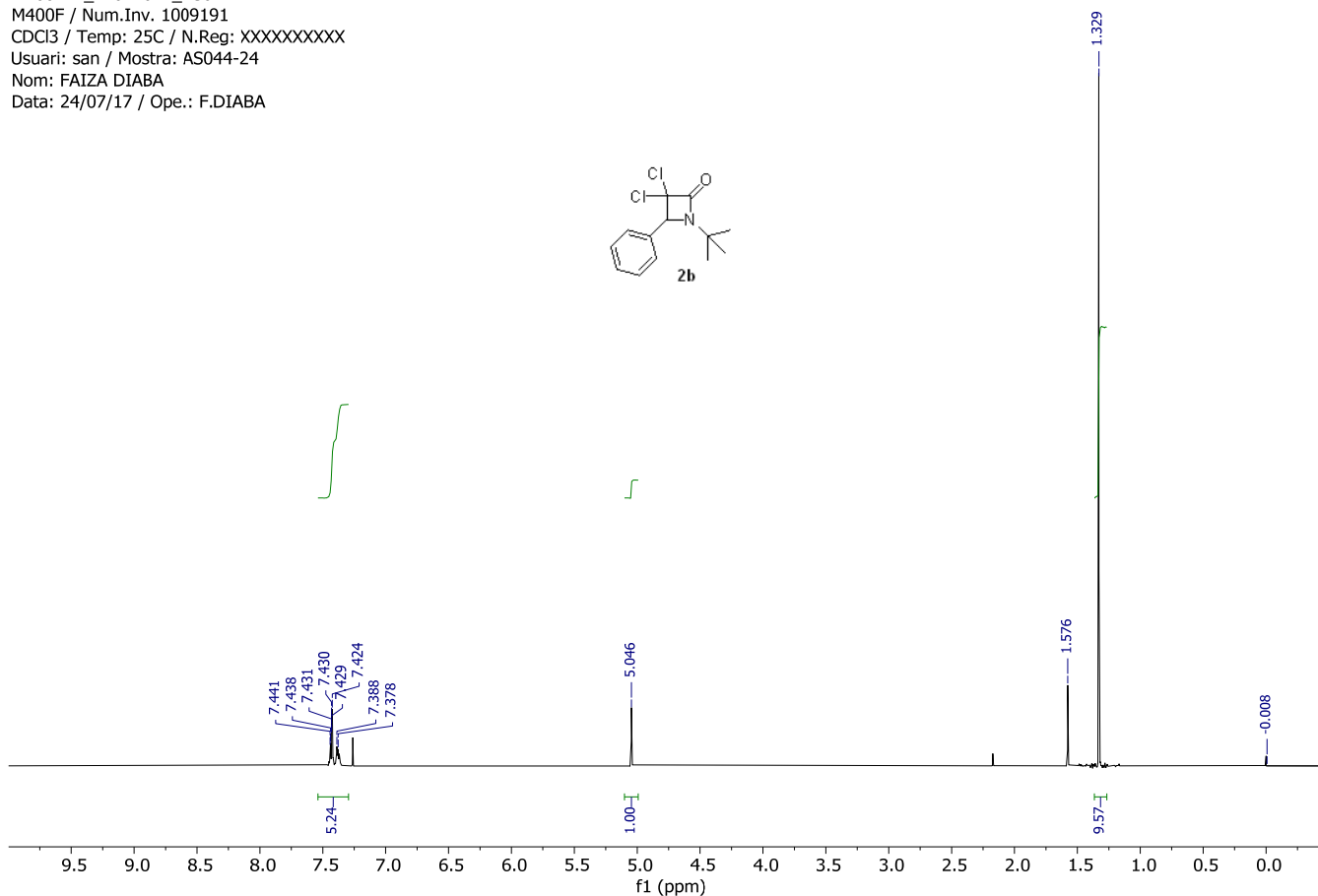
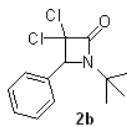


Figure S4

M400AFF_24072017_AS044-24-H1
M400F / Num.Inv. 1009191
CDCl₃ / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AS044-24
Nom: FAIZA DIABA
Data: 24/07/17 / Ope.: F.DIABA



VNMRS400A_27072017_AS044-24-C13
VNMRS400F / Num.Inv. 205984
cdcl₃ / Temp: 25C / N.Reg: XXXXXXXXXX
Usuari: san / Mostra: AS044-24
Nom: FAIZA DIABA
Data: 27/07/17 / Ope.: F.DIABA

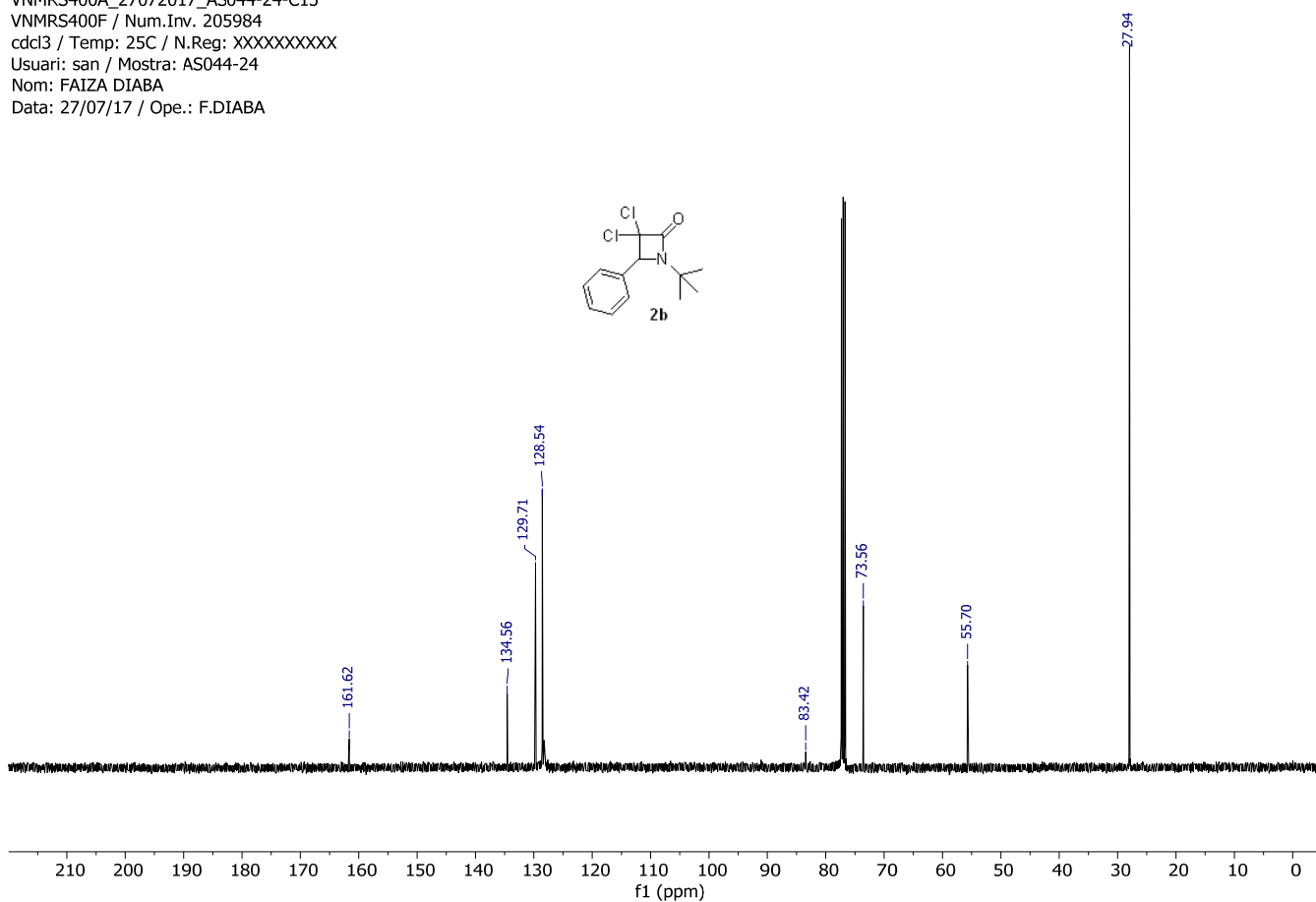
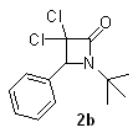
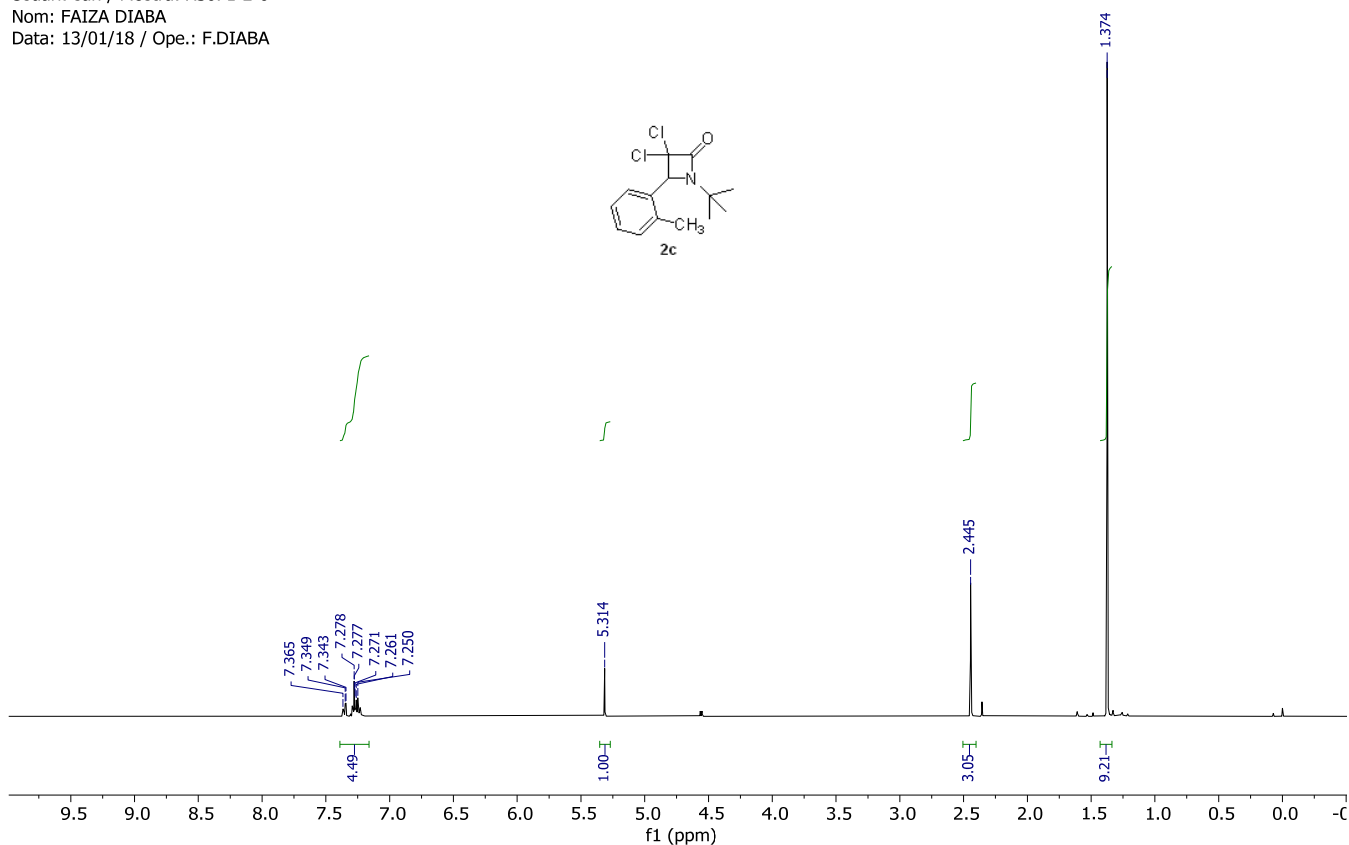
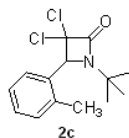


Figure S5

VNMRS400A_13012018_AS071-2-6-H1
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS071-2-6
 Nom: FAIZA DIABA
 Data: 13/01/18 / Ope.: F.DIABA



VNMRS400A_13012018_AS071-2-6-C13
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS071-2-6
 Nom: FAIZA DIABA
 Data: 13/01/18 / Ope.: F.DIABA

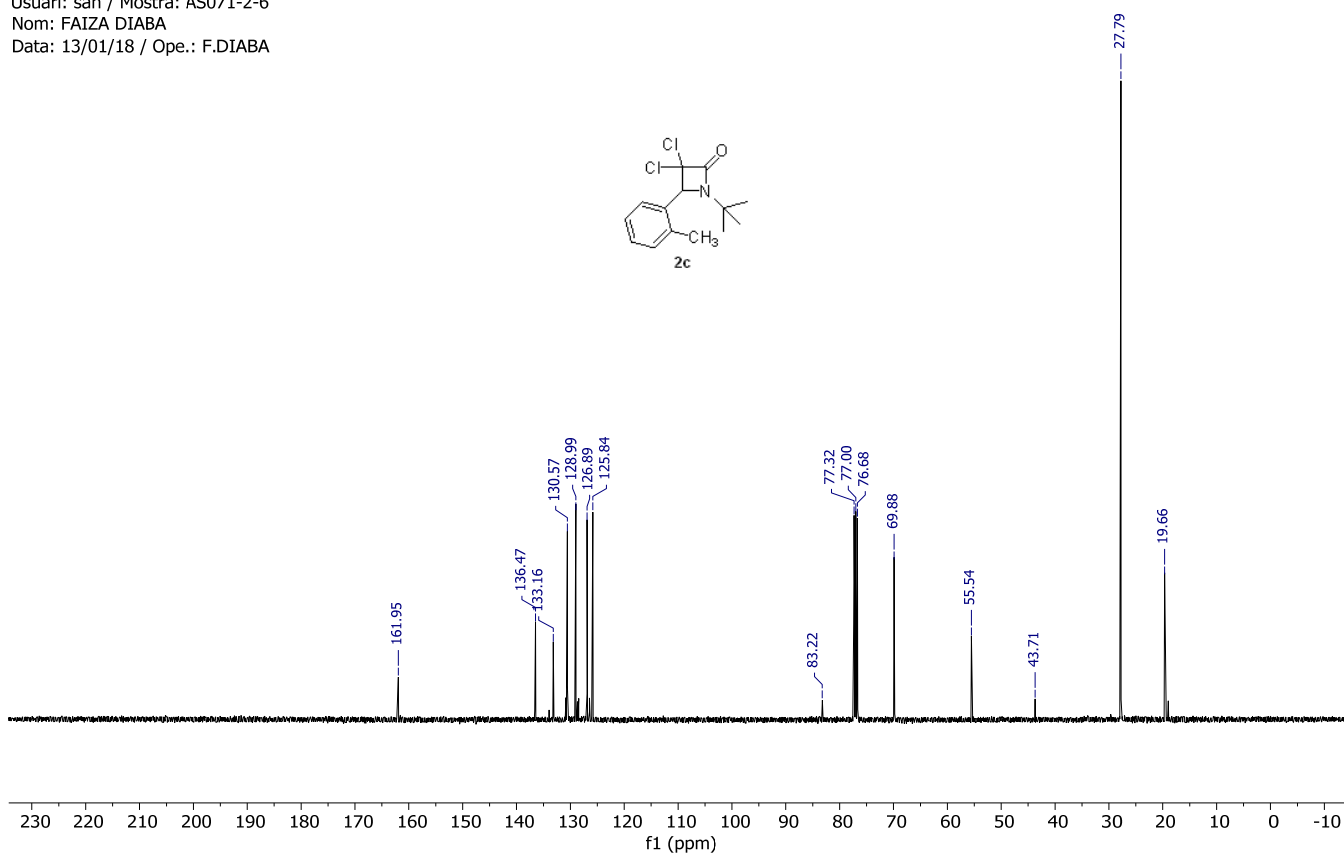
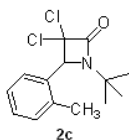
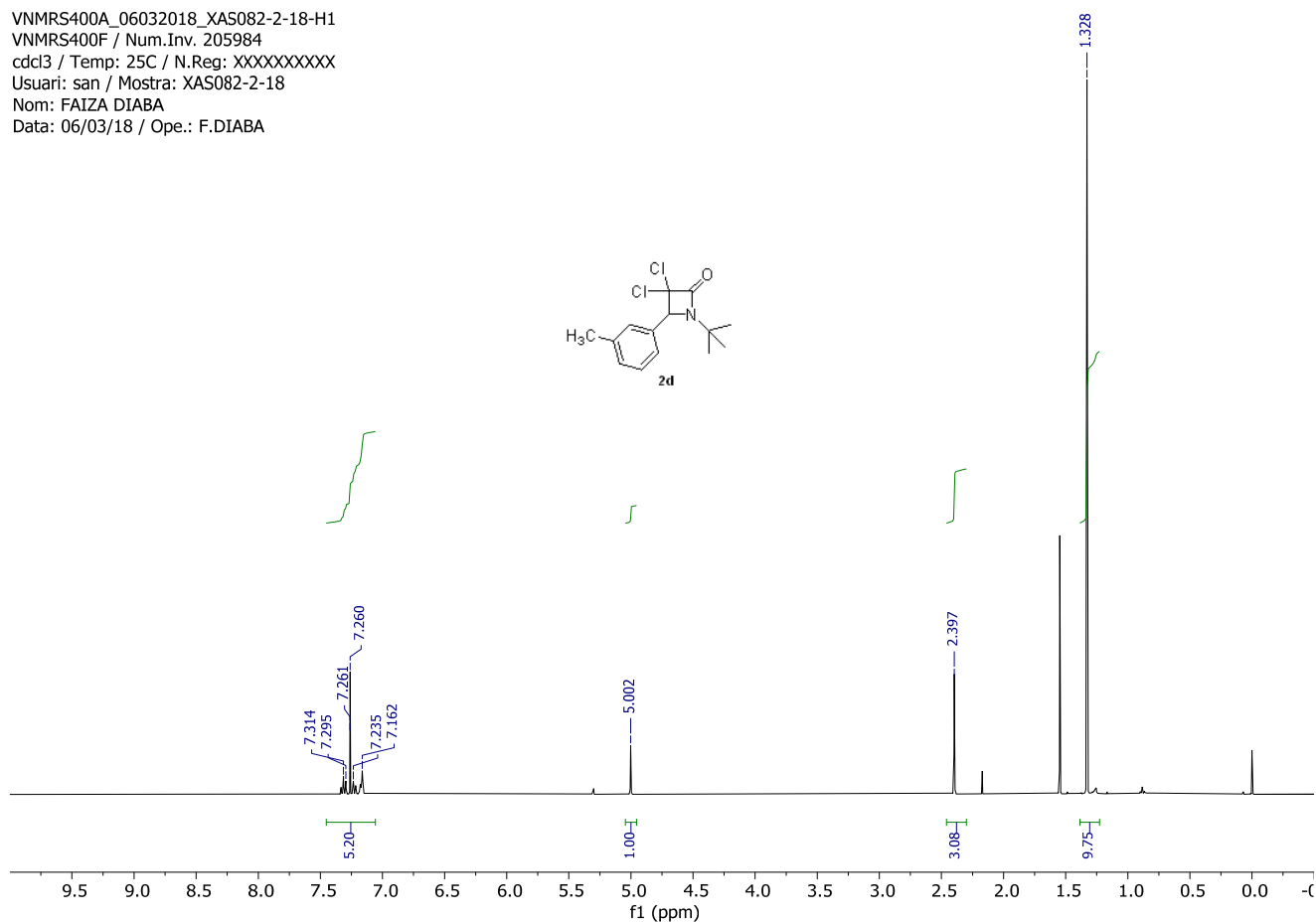
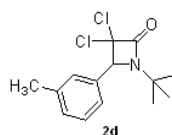


Figure S6

VNMRS400A_06032018_XAS082-2-18-H1
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: XAS082-2-18
 Nom: FAIZA DIABA
 Data: 06/03/18 / Ope.: F.DIABA



VNMRS400A_06032018_XAS082-2-18-C13
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: XAS082-2-18
 Nom: FAIZA DIABA
 Data: 06/03/18 / Ope.: F.DIABA

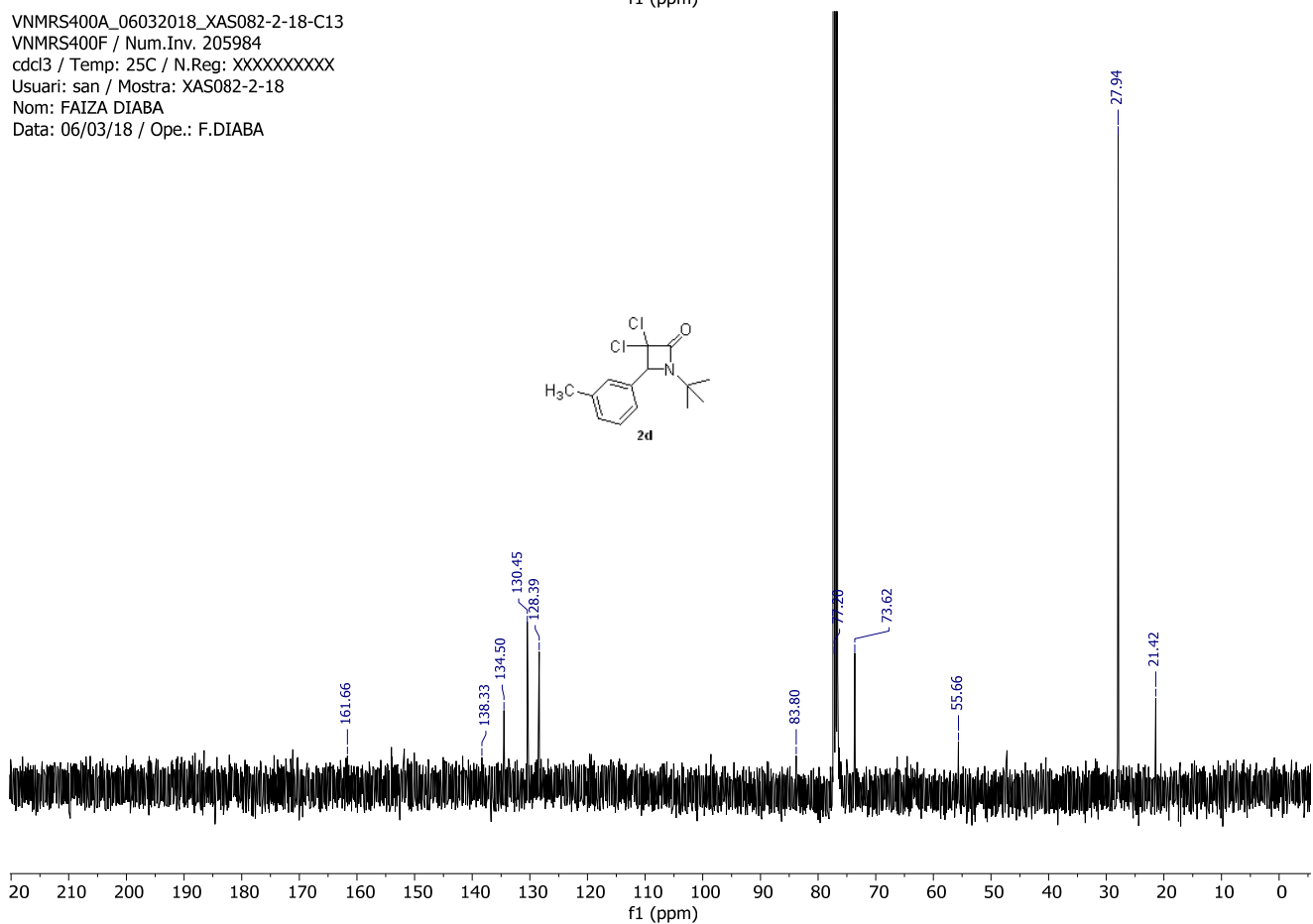
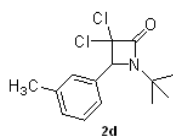
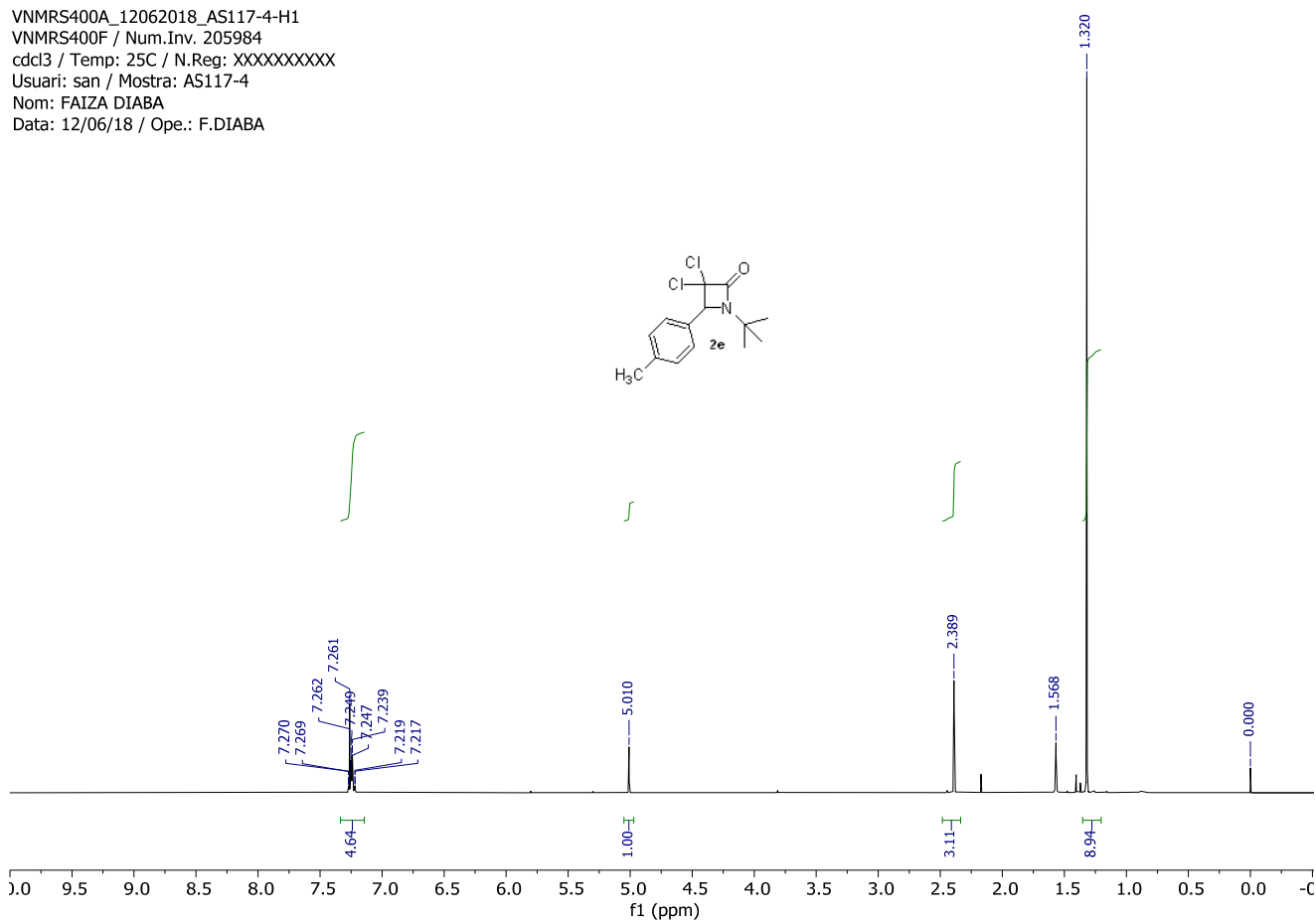


Figure S7

VNMRS400A_12062018_AS117-4-H1
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS117-4
 Nom: FAIZA DIABA
 Data: 12/06/18 / Ope.: F.DIABA



VNMRS400A_12062018_AS117-4-C13
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS117-4
 Nom: FAIZA DIABA
 Data: 12/06/18 / Ope.: F.DIABA

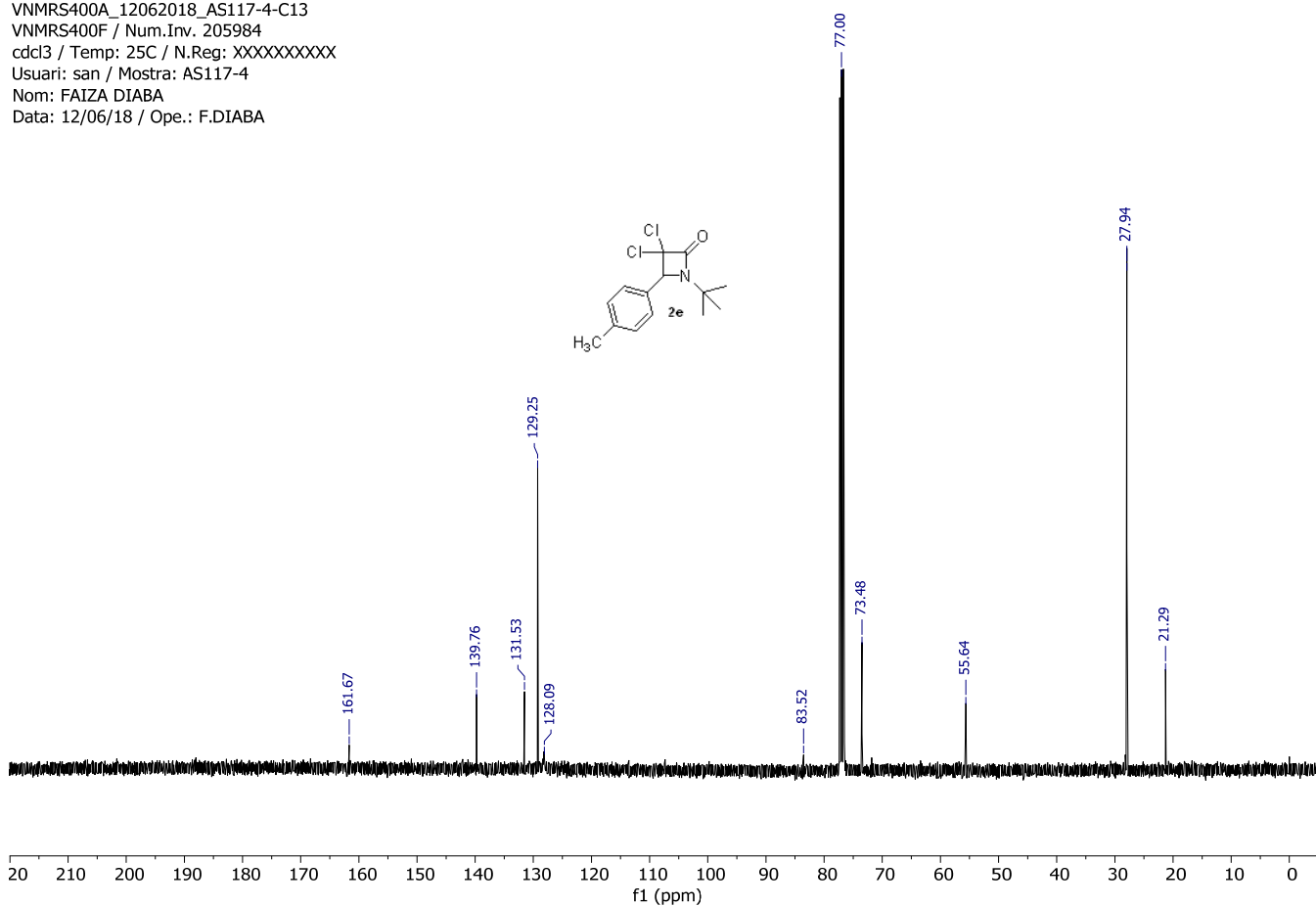
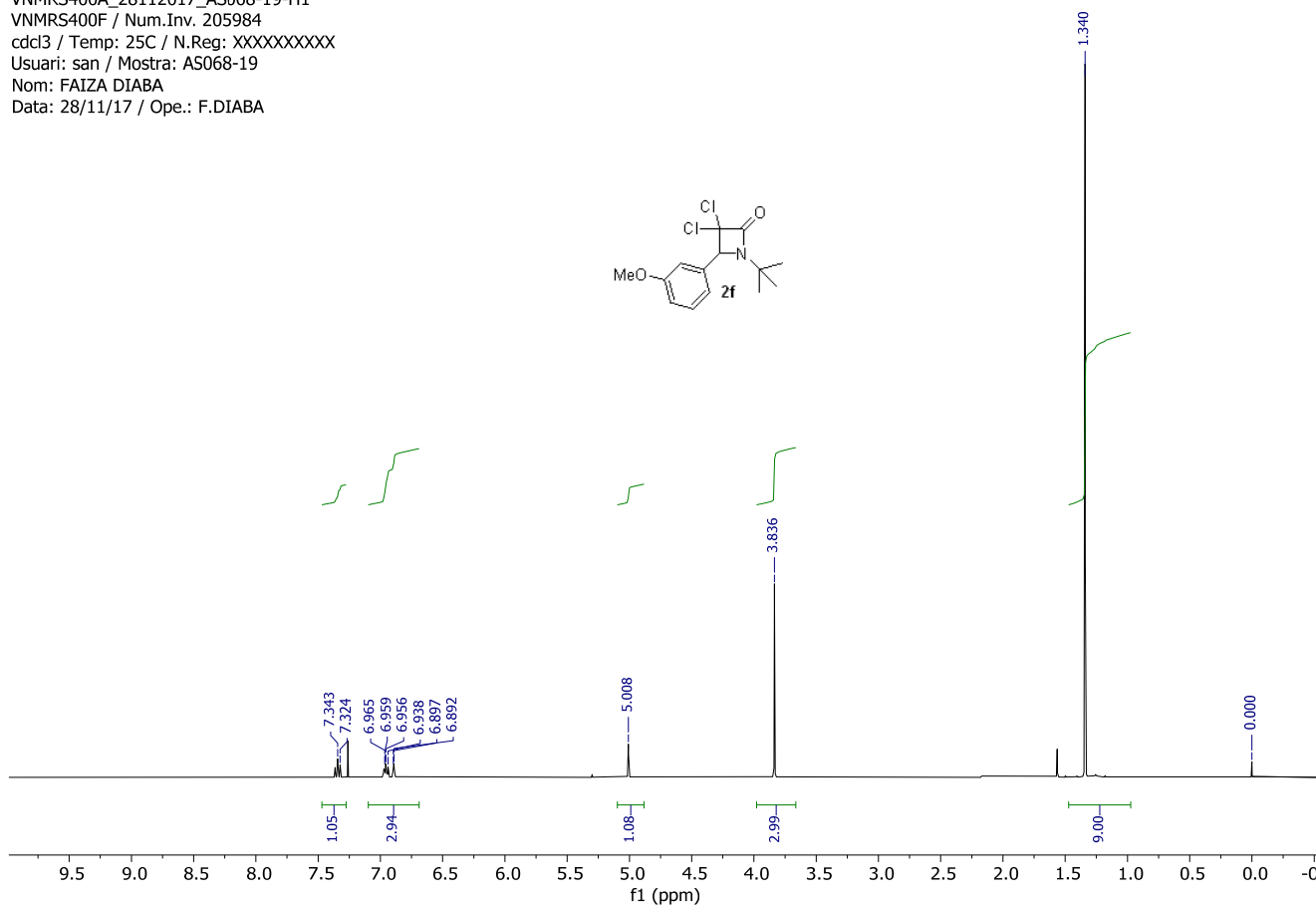
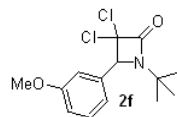


Figure S8

VNMRS400A_28112017_AS068-19-H1
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS068-19
 Nom: FAIZA DIABA
 Data: 28/11/17 / Ope.: F.DIABA



VNMRS400A_28112017_AS068-19-C13
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS068-19
 Nom: FAIZA DIABA
 Data: 28/11/17 / Ope.: F.DIABA

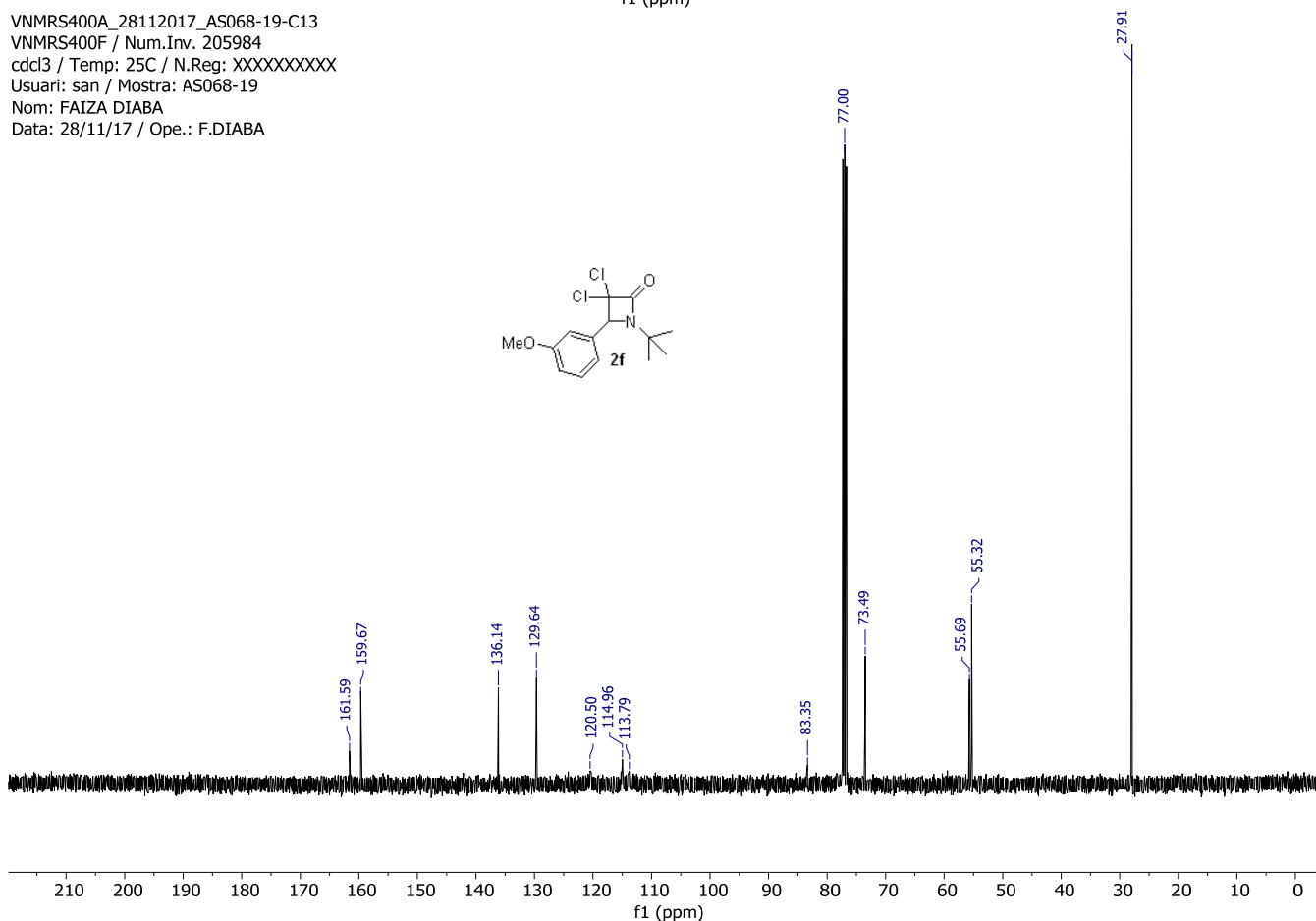
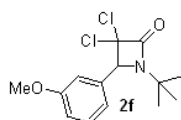
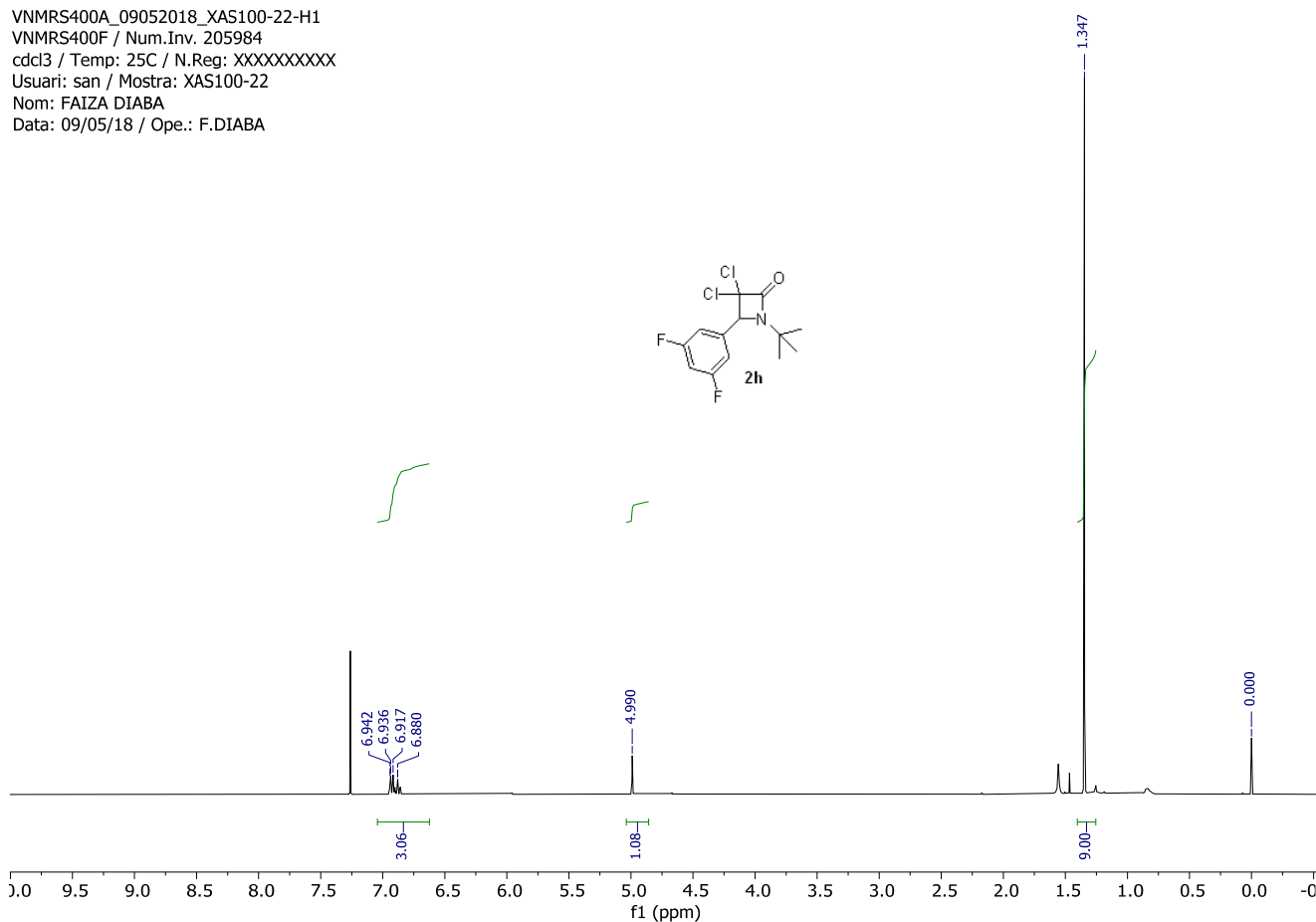


Figure S9

VNMRS400A_09052018_XAS100-22-H1
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: XAS100-22
 Nom: FAIZA DIABA
 Data: 09/05/18 / Ope.: F.DIABA



VNMRS400A_09052018_XAS100-22-C13
 VNMRS400F / Num.Inv. 205984
 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: XAS100-22
 Nom: FAIZA DIABA
 Data: 09/05/18 / Ope.: F.DIABA

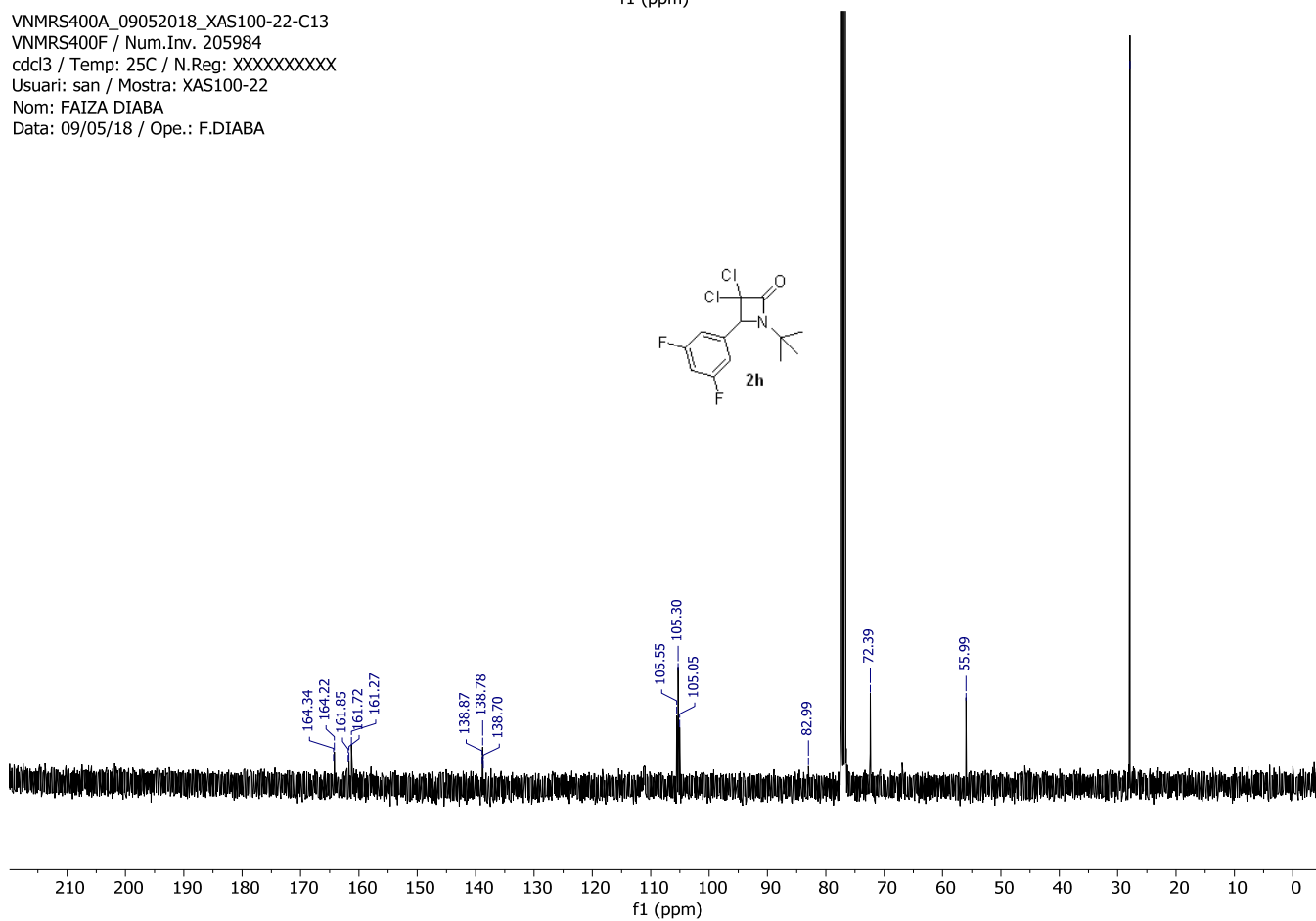
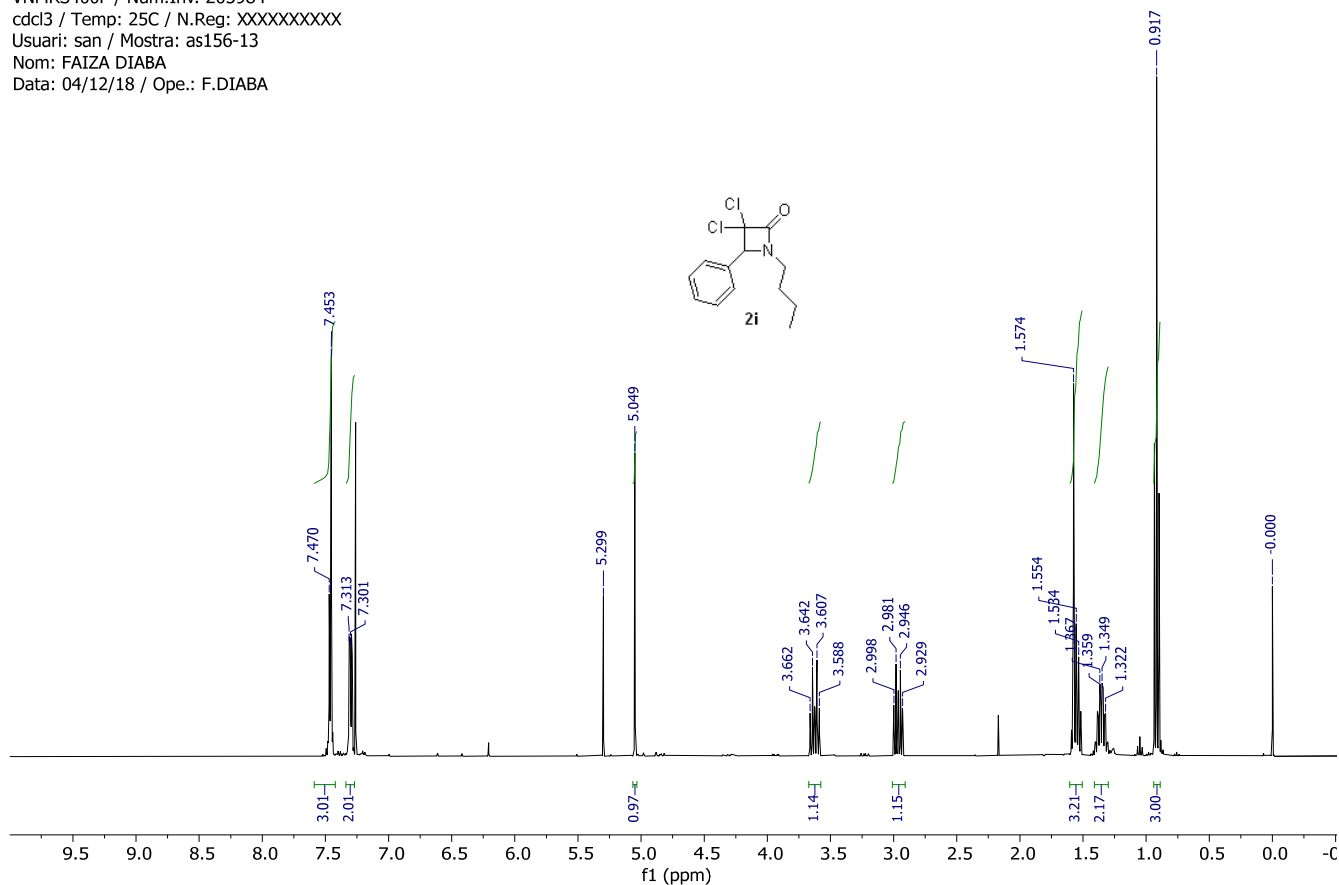


Figure S10

VNMRS400A_04122018_as156-13-H1
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 cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: as156-13
 Nom: FAIZA DIABA
 Data: 04/12/18 / Ope.: F.DIABA



VNMRS400A_04122018_as156-13-C13
 VNMRS400F / Num.Inv. 205984
 cdcl3 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: as156-13
 Nom: FAIZA DIABA
 Data: 04/12/18 / Ope.: F.DIABA

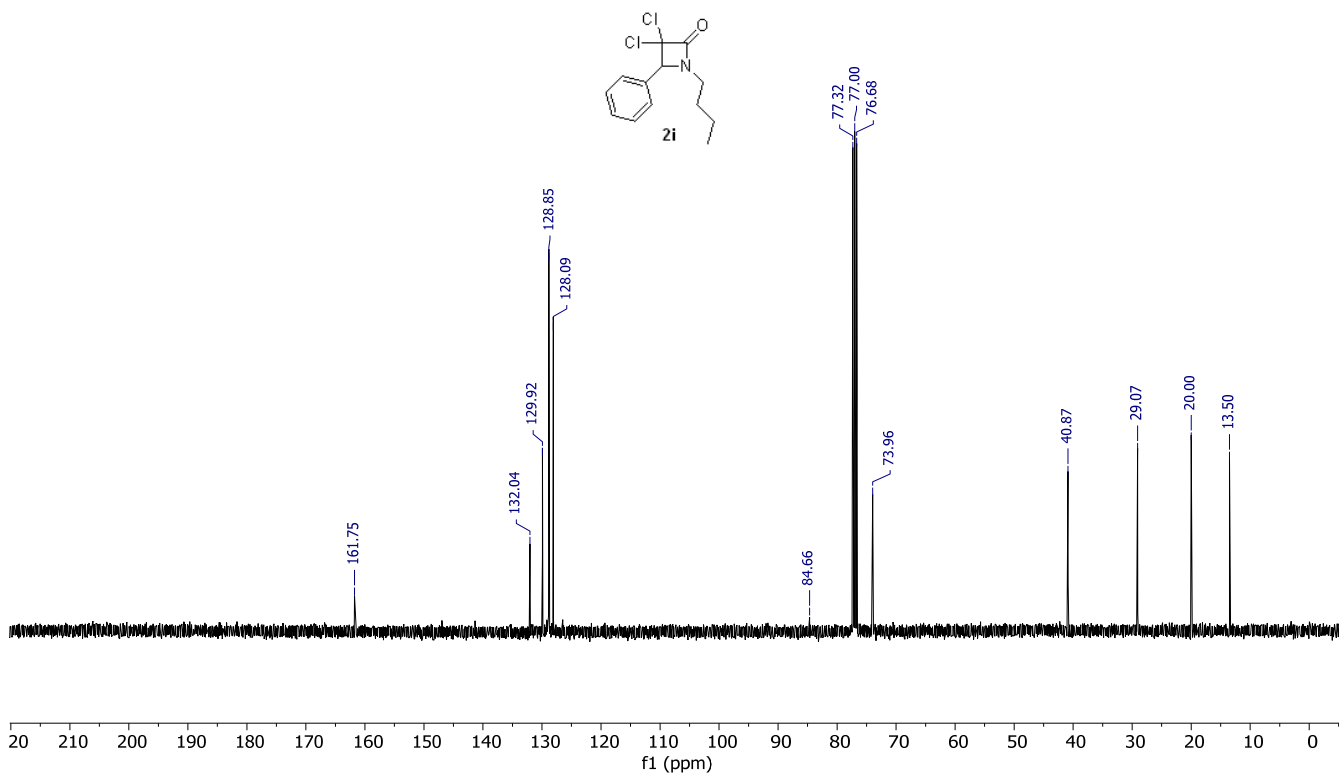
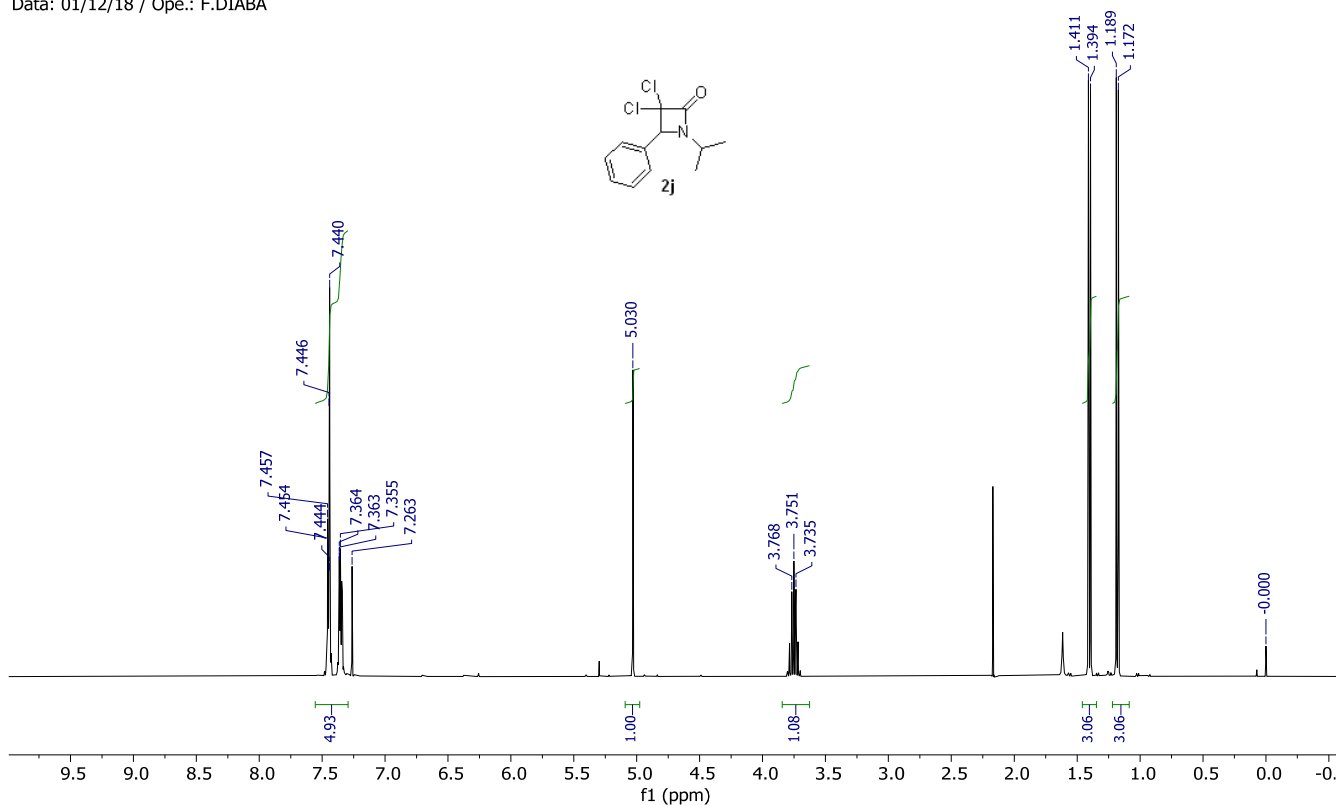
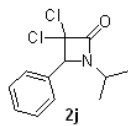


Figure S11

VNMRS400A_01122018_AS154-13-H1
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 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS154-13
 Nom: FAIZA DIABA
 Data: 01/12/18 / Ope.: F.DIABA



VNMRS400A_01122018_AS154-13-C13
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 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: AS154-13
 Nom: FAIZA DIABA
 Data: 01/12/18 / Ope.: F.DIABA

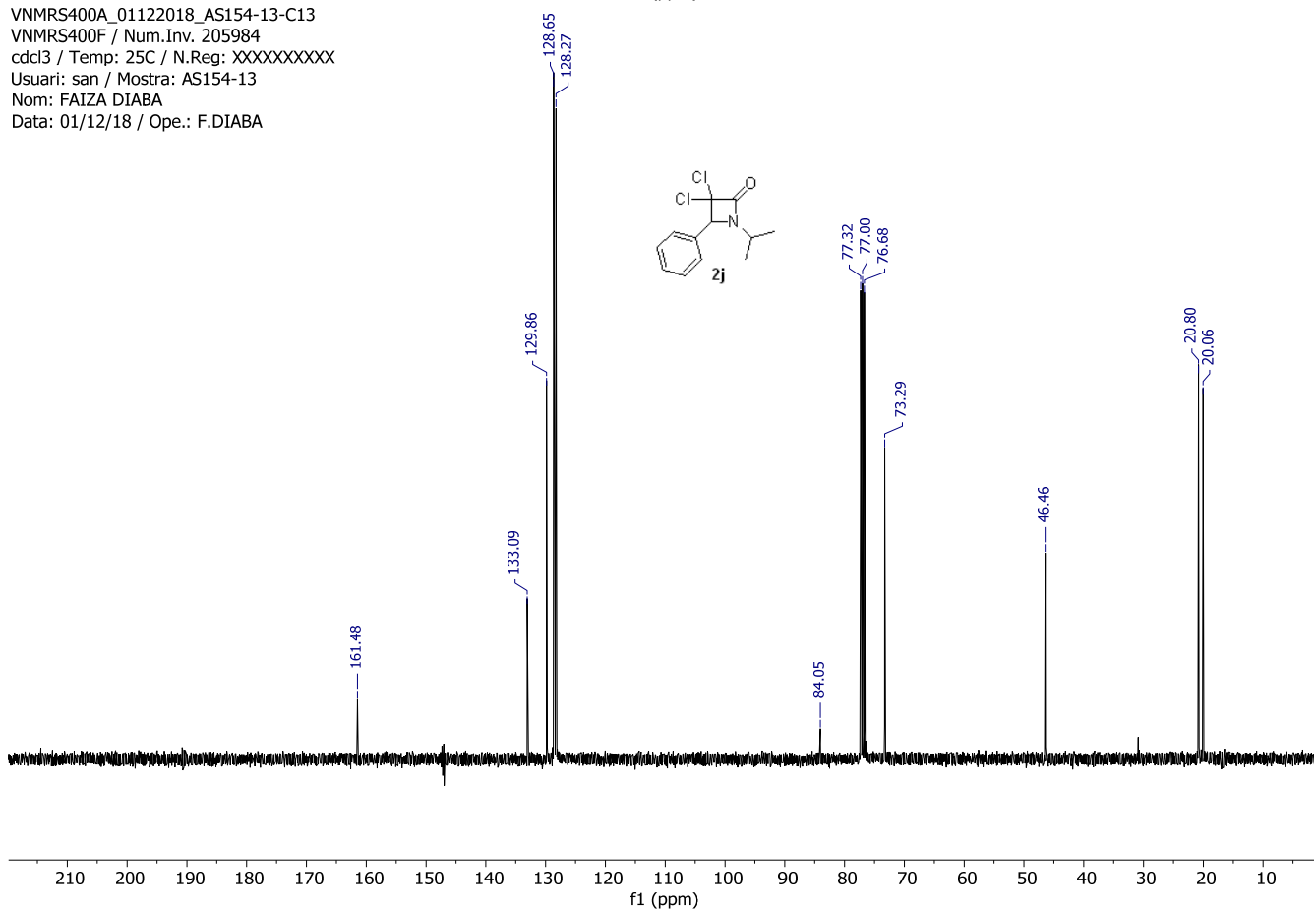
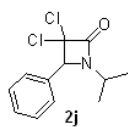
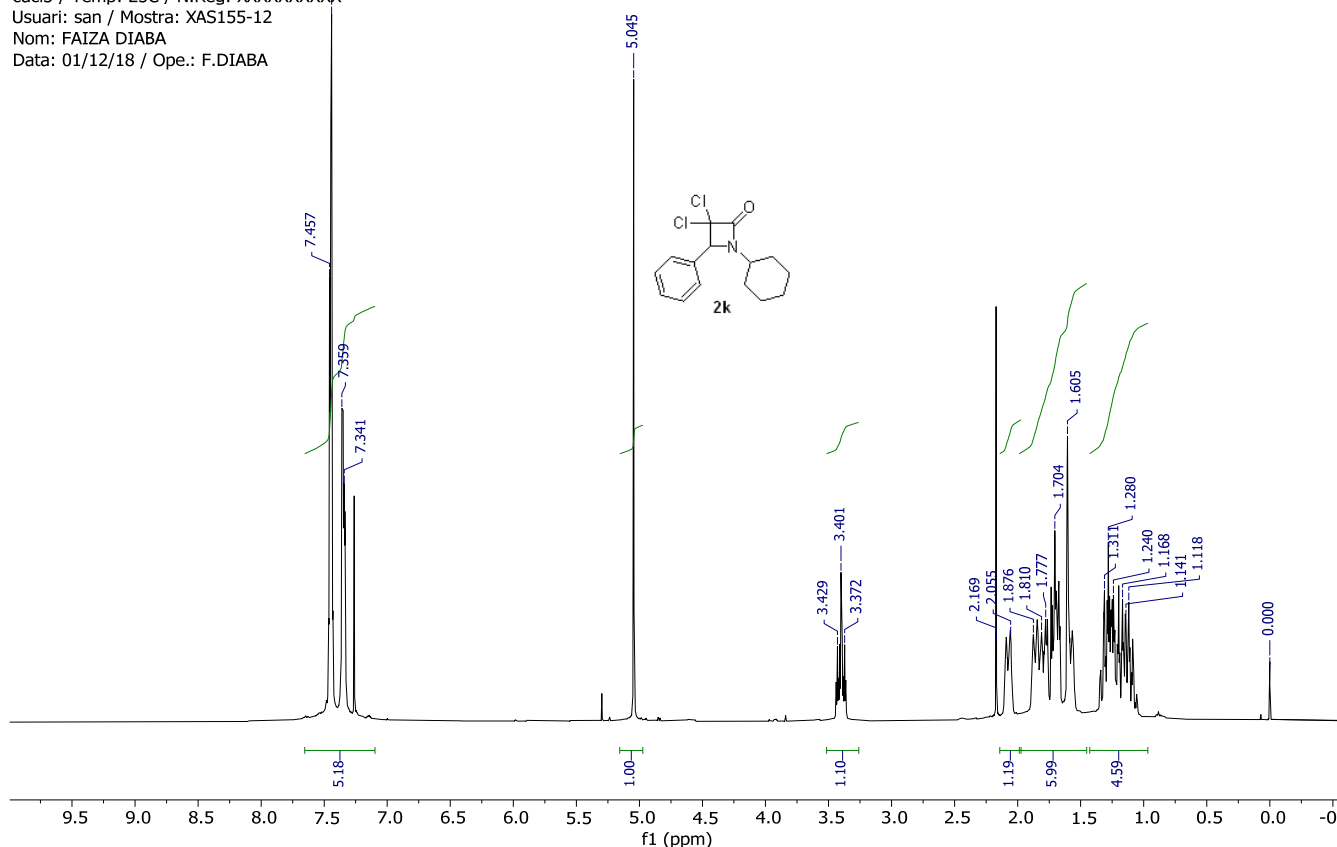


Figure S12

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 Usuari: san / Mostra: XAS155-12
 Nom: FAIZA DIABA
 Data: 01/12/18 / Ope.: F.DIABA



VNMRS400A_01122018_XAS155-12-C13
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 cdc13 / Temp: 25C / N.Reg: XXXXXXXXXX
 Usuari: san / Mostra: XAS155-12
 Nom: FAIZA DIABA
 Data: 01/12/18 / Ope.: F.DIABA

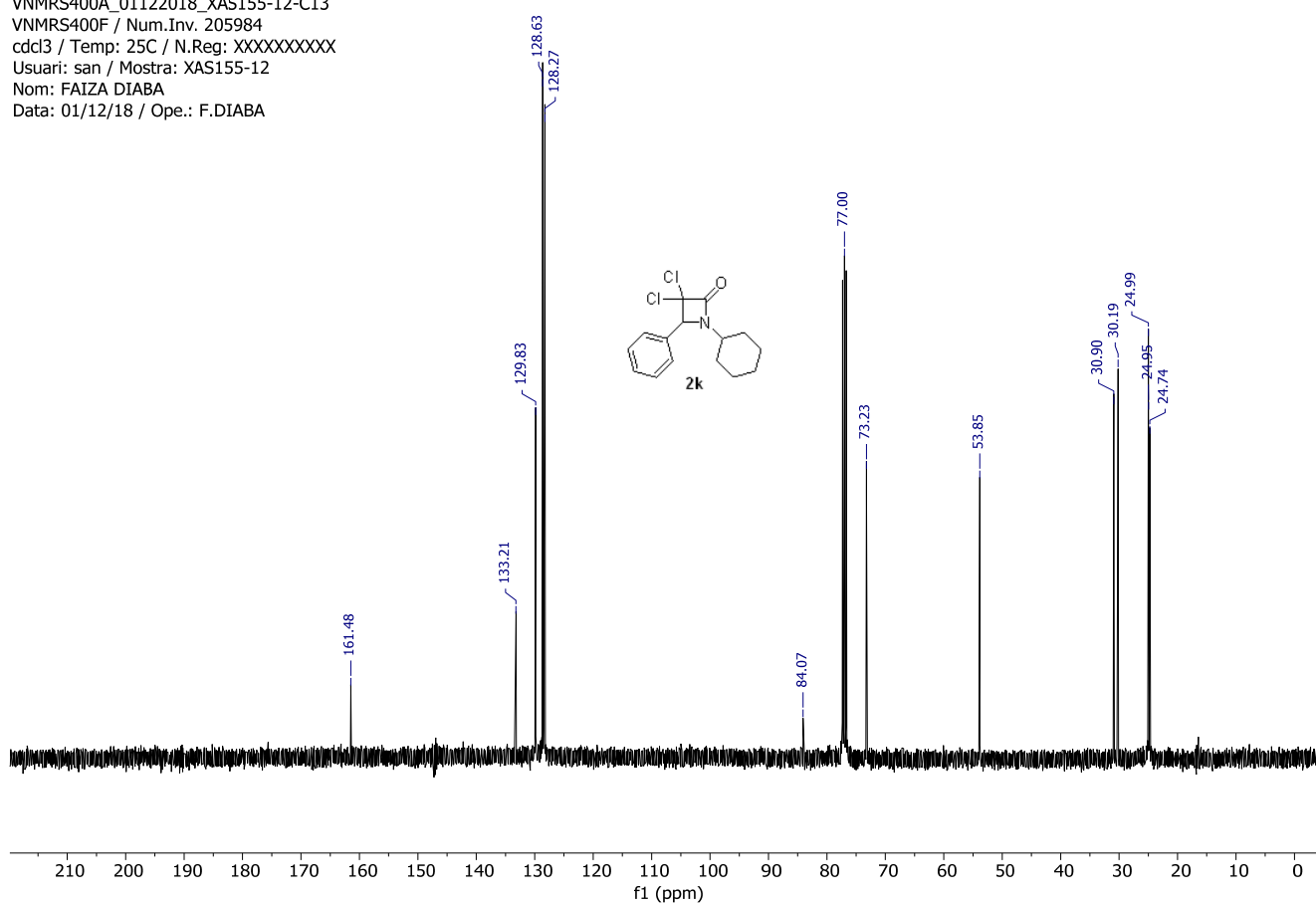


Figure S13