

Towards a general synthesis of di-aza-amino acids containing peptides

Faustine Bizet, Nicolo Tonalì, Jean-Louis Soulier, Agostino Oliva, Julia Kaffy, Benoit Crousse, Sandrine Ongerì*

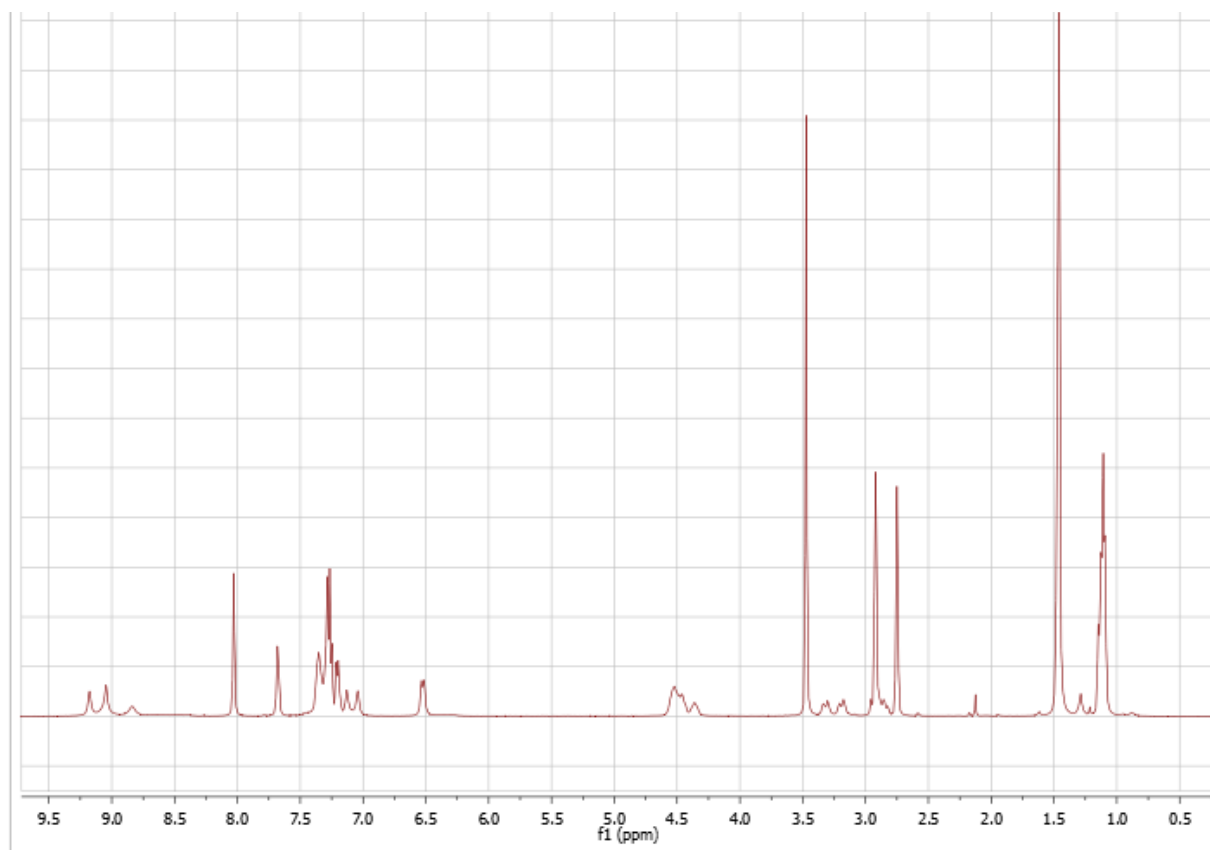
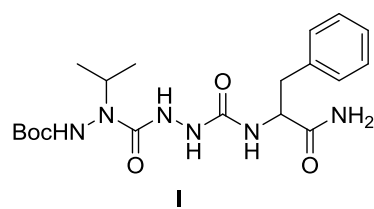
BioCIS, Univ. Paris-Sud, CNRS, Université Paris Saclay, 5 rue Jean-Baptiste Clément, 92296 Châtenay-Malabry Cedex, France.

Corresponding author: E-mail: sandrine.ongerì@u-psud.fr; Tel : +33 146835737.

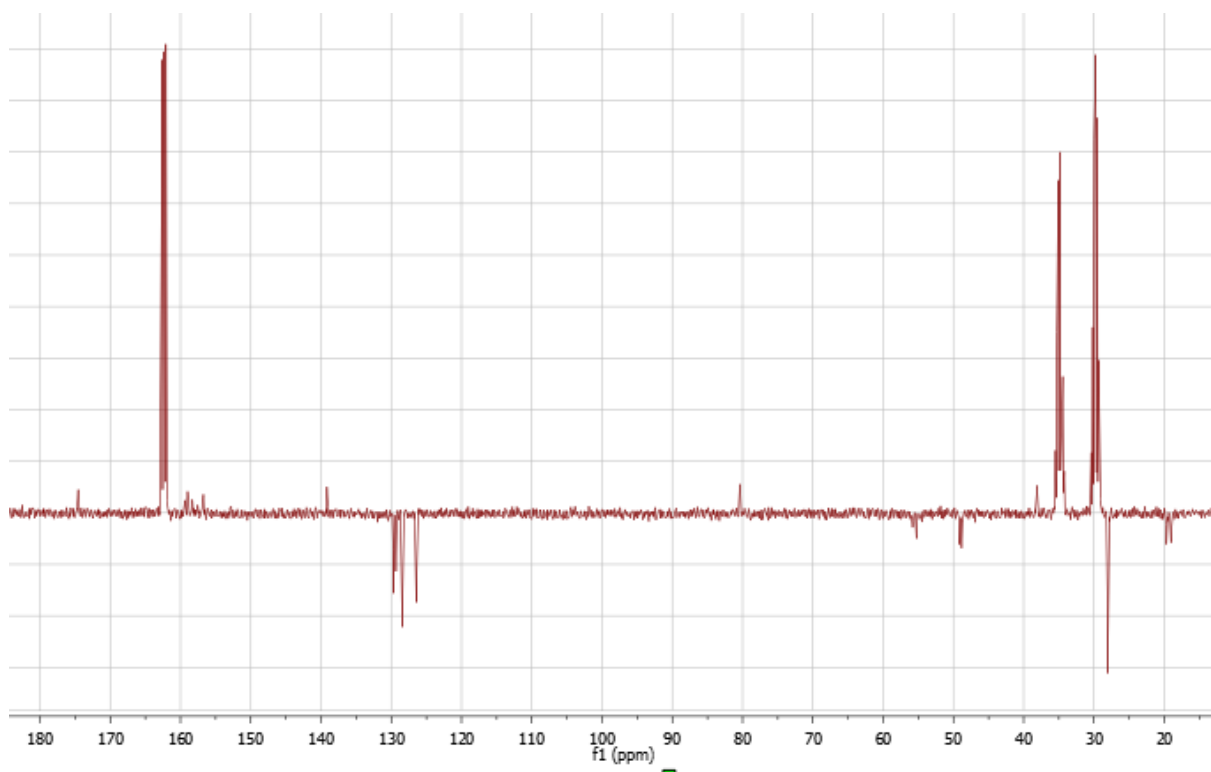
Table of contents

Page S2-S14 ^1H and ^{13}C NMR spectra, HPLC purities of compounds **I-V**

^1H and ^{13}C NMR spectra of **I in $\text{DMF-}d_7$:**



1D ^1H NMR spectrum of **I** at 298K.



1D ^{13}C NMR spectrum of **I** at 298K.

HPLC purity of **I**

05-Nov-2015

Faustine BIZET - MOLEC FLUOREES

FB 08

H₂O + 0.1% ac. form. / ACN - grd 5-100% en 20min

XBridge C18 - 2.1x150mm - 3.5um - 016334028140

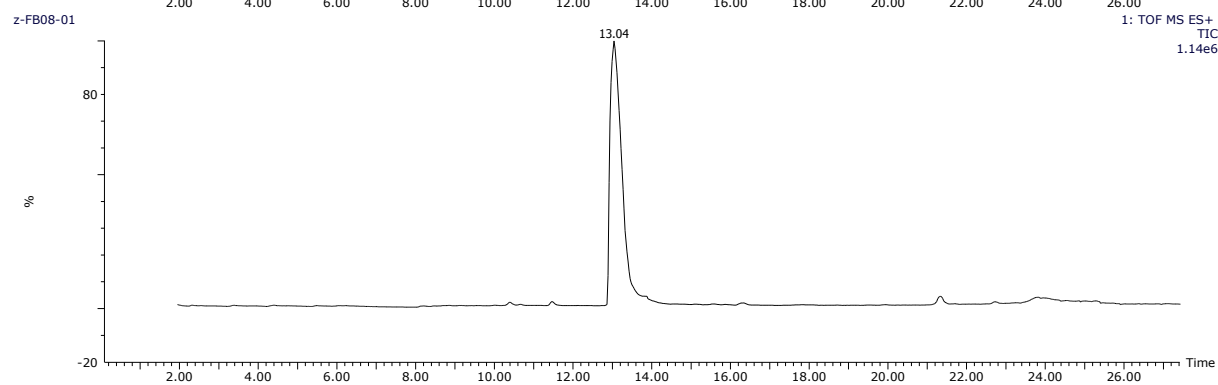
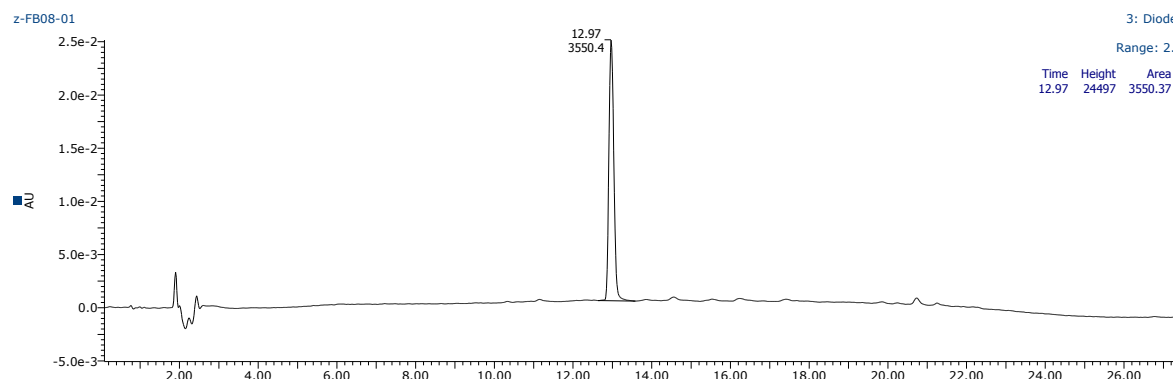
vial 3

3: Diode Array

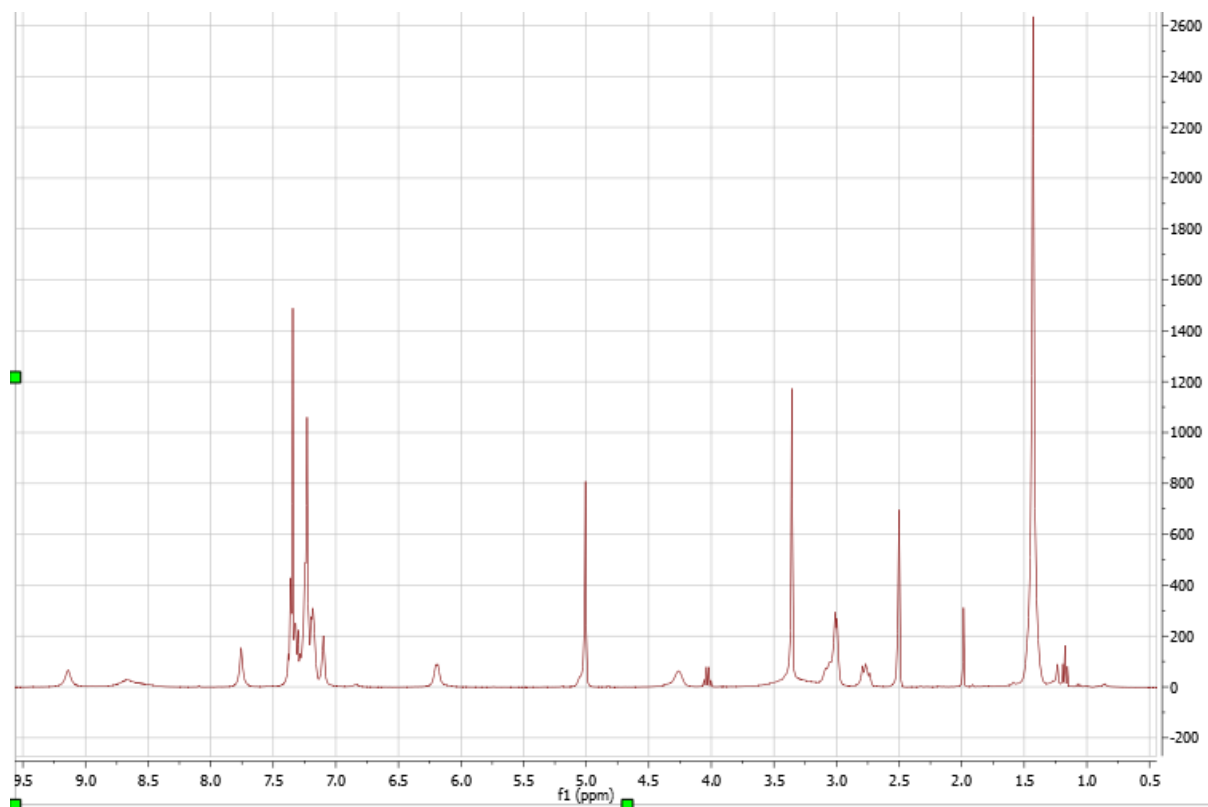
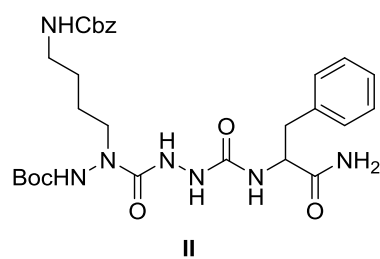
257

Range: 2.714e-2

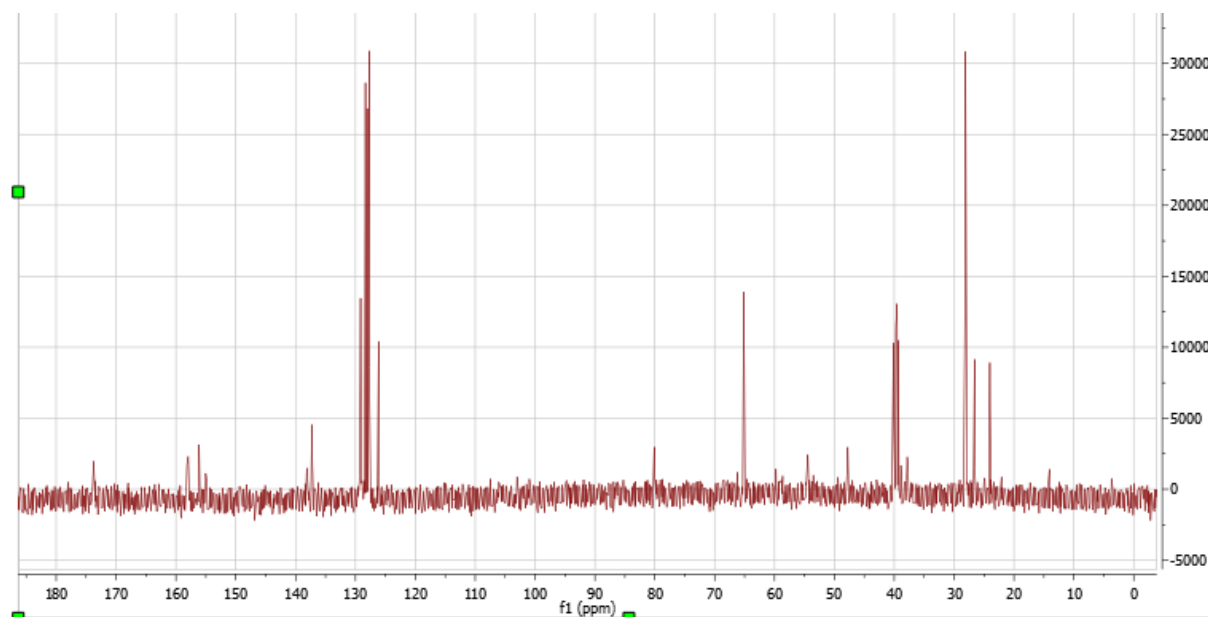
Time	Height	Area	Area%
12.97	24497	3550.37	100.00



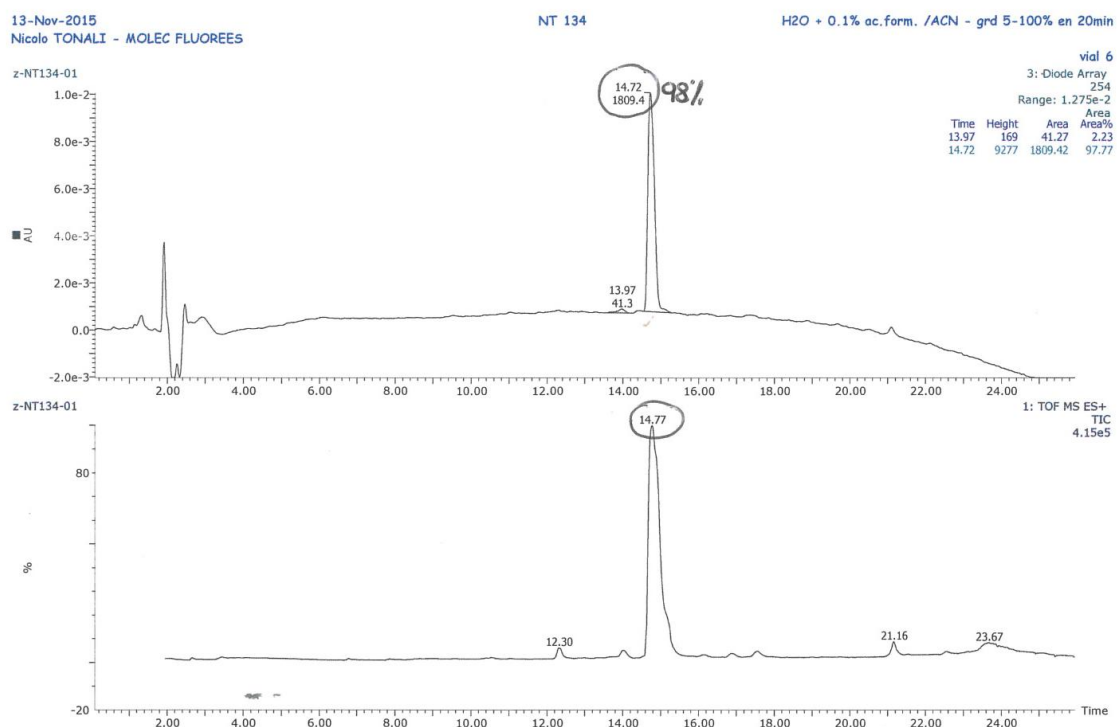
NMR spectrum ^1H and ^{13}C of **II** in DMSO- d_6 :



1D ^1H NMR spectrum of **II** at 298K.



HPLC purity of **II**



13-Nov-2015

NT 134

H₂O + 0.1% ac. form. / ACN - grd 5-100% en 20min

Nicolo TONALI - MOLEC FLUOREES

vial 6

z-NT134-01 369 (12.305) Cm (367:371-(361:362+379:382))

1: TOF MS ES+
4.93e4



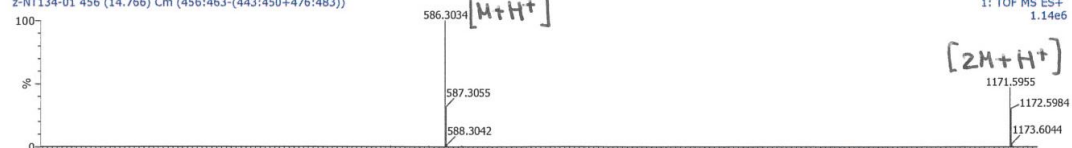
z-NT134-01 430 (14.030) Cm (428:432-(418:422+442:443))

1: TOF MS ES+
2.66e4



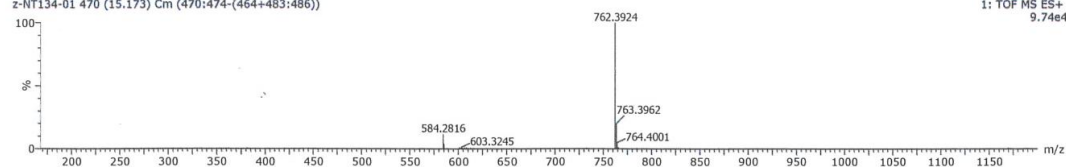
z-NT134-01 456 (14.766) Cm (456:463-(443:450+476:483))

1: TOF MS ES+
1.14e6

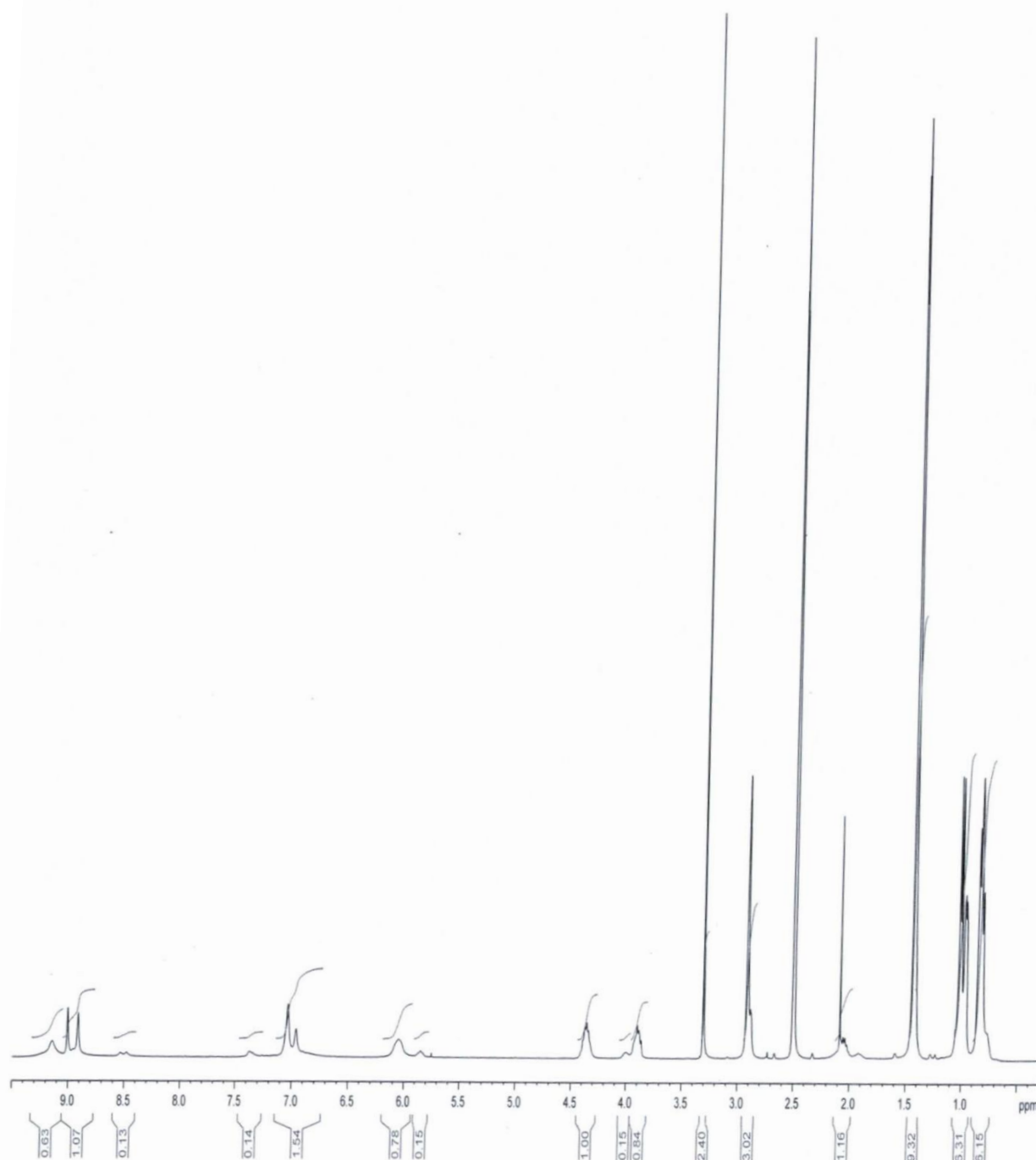
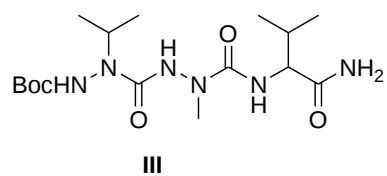


z-NT134-01 470 (15.173) Cm (470:474-(464+483:486))

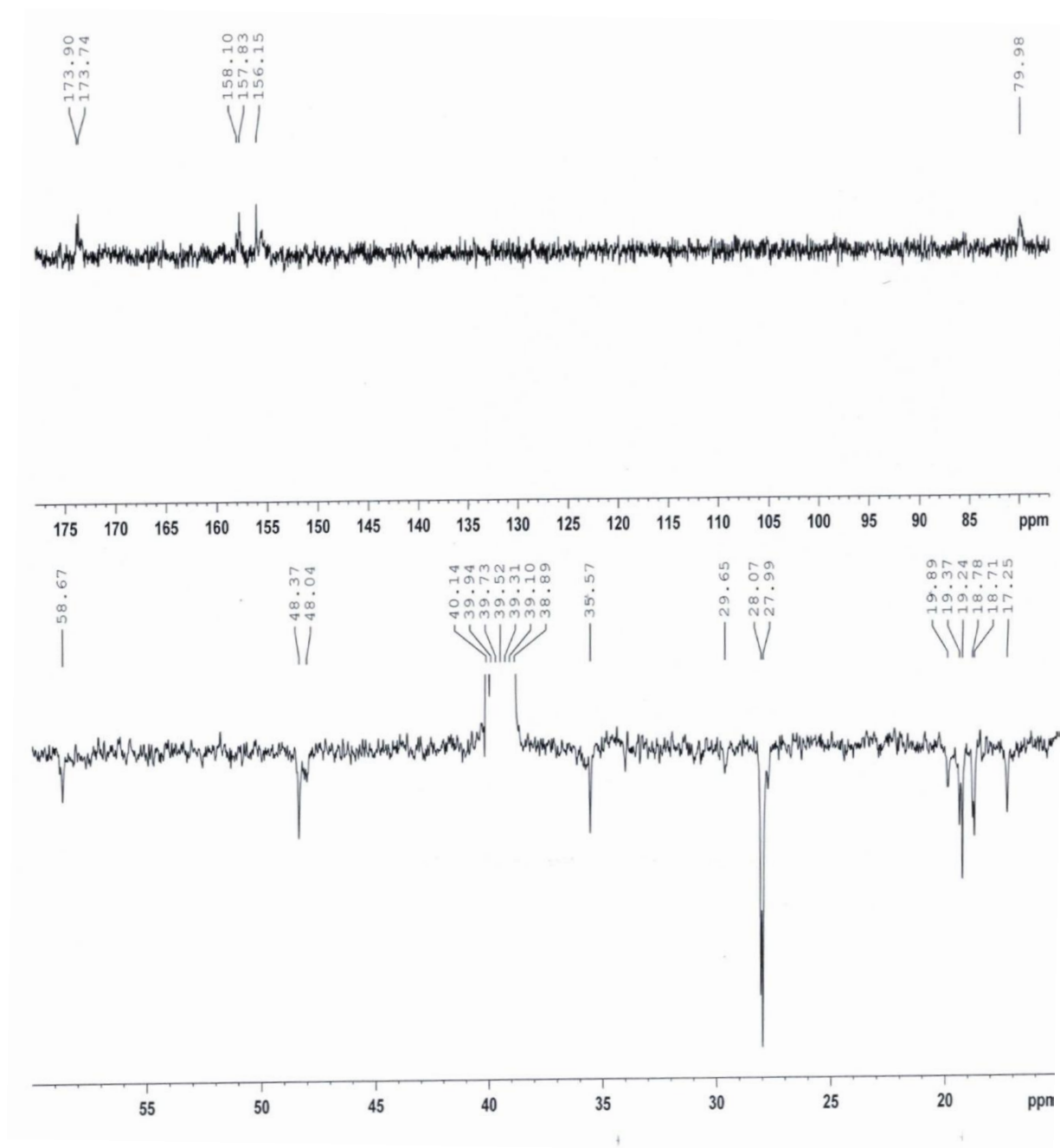
1: TOF MS ES+
9.74e4



^1H and ^{13}C NMR spectra of **III** in $\text{DMSO-}d_6$:



1D ^1H NMR spectrum of **III** at 300K



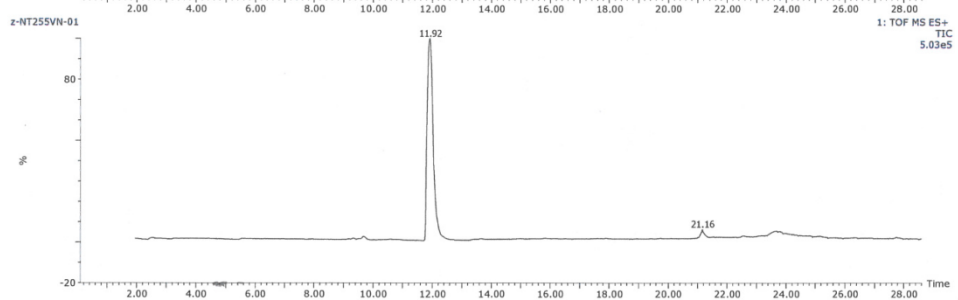
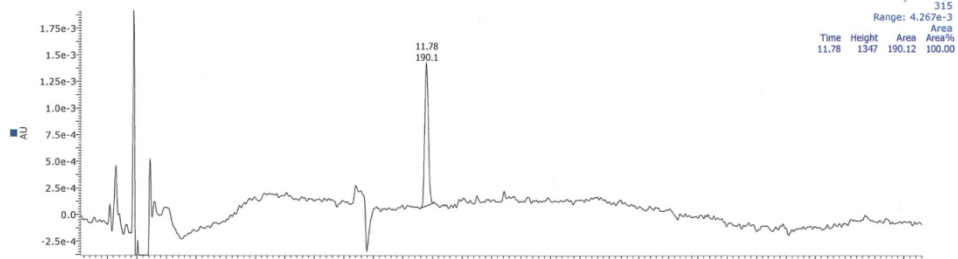
1D ^{13}C NMR spectrum (JMOD) of **III** at 298K

HPLC purity of III

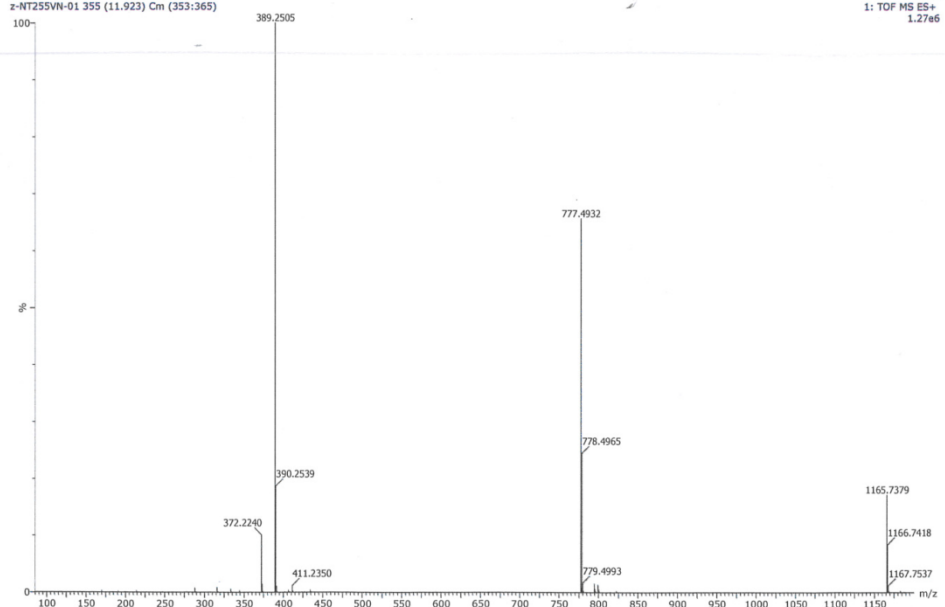
12-Nov-2015 NT 255 Val NH2 H2O + 0.1% ac.form. /ACN - grd 5-100% en 20min

Nicola TONALI - MOLEC FLUOREES

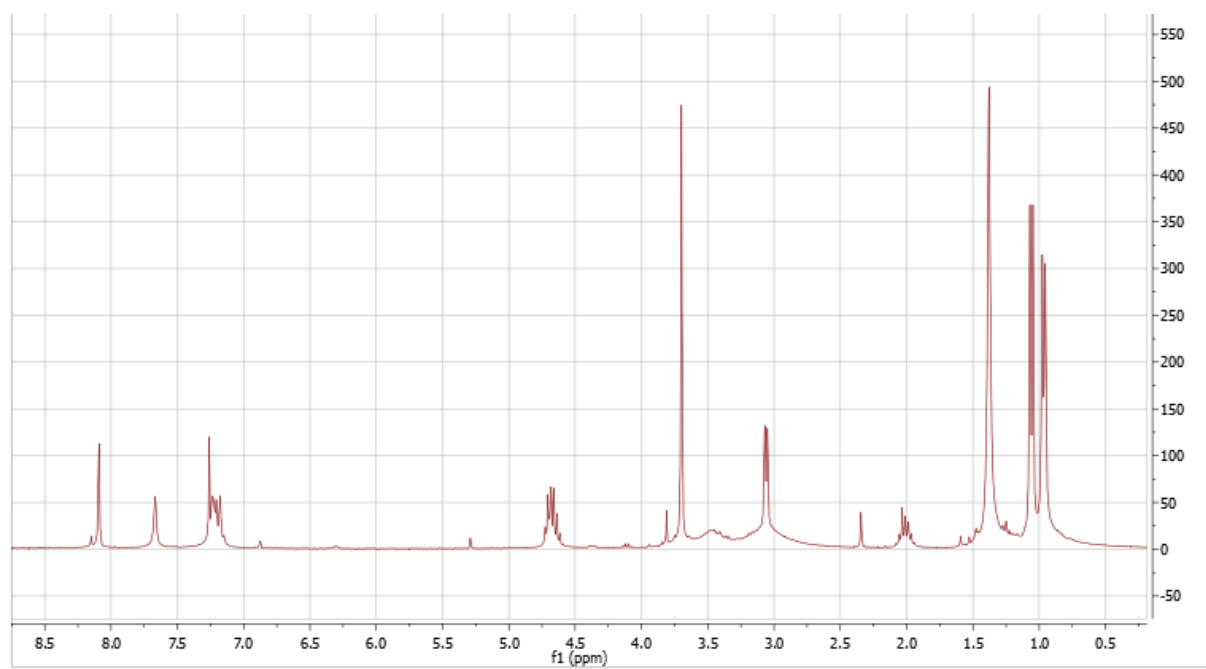
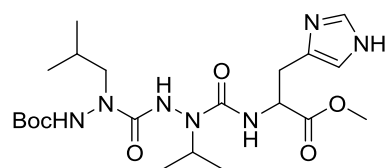
z-NT255VN-01 vial 3
3: Diode Array
315
Range: 4.267e-3
Area
Time Height Area Area%
11.78 1347 190.12 100.00



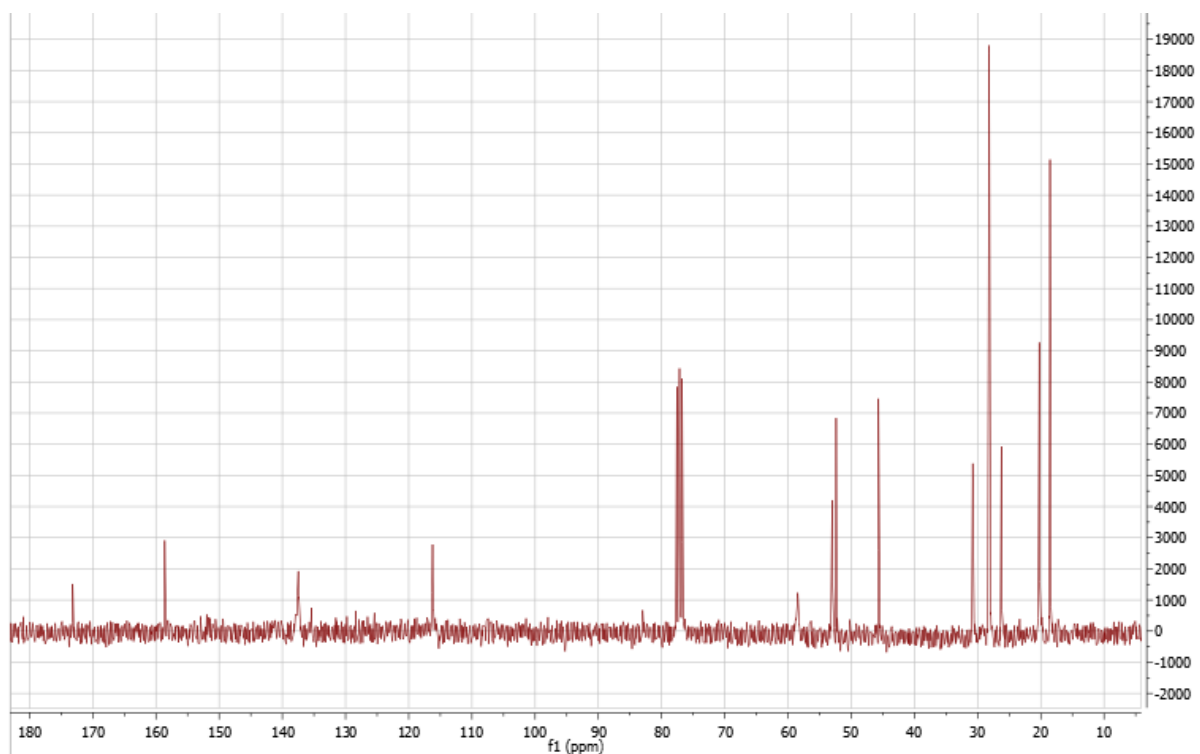
12-Nov-2015 NT 255 Val NH2 H2O + 0.1% ac.form. /ACN - grd 5-100% en 20min
Nicola TONALI - MOLEC FLUOREES
z-NT255VN-01 355 (11.923) Cm (353:365) vial 3
1: TOF MS ES+ 1.27e6



^1H and ^{13}C NMR spectra of IV in CDCl_3 :

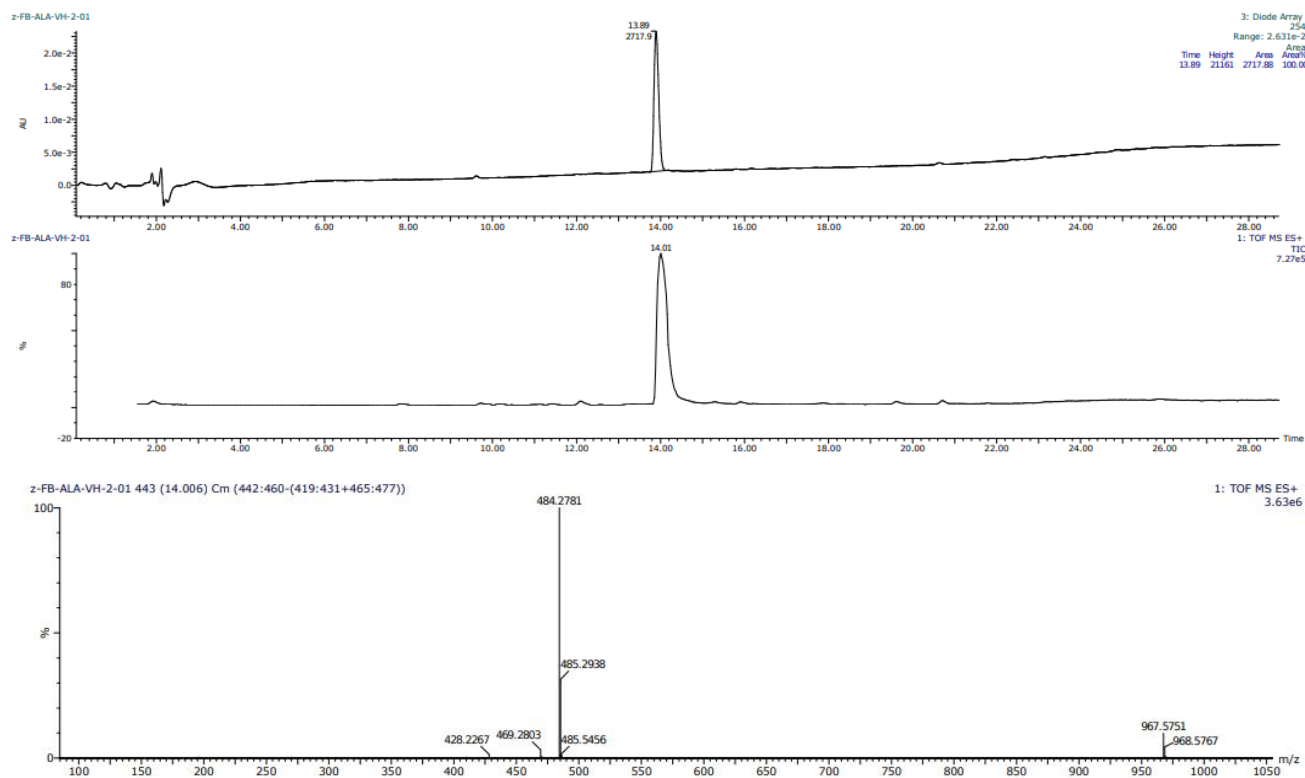


1D ^1H NMR spectrum of **IV** at 298K.

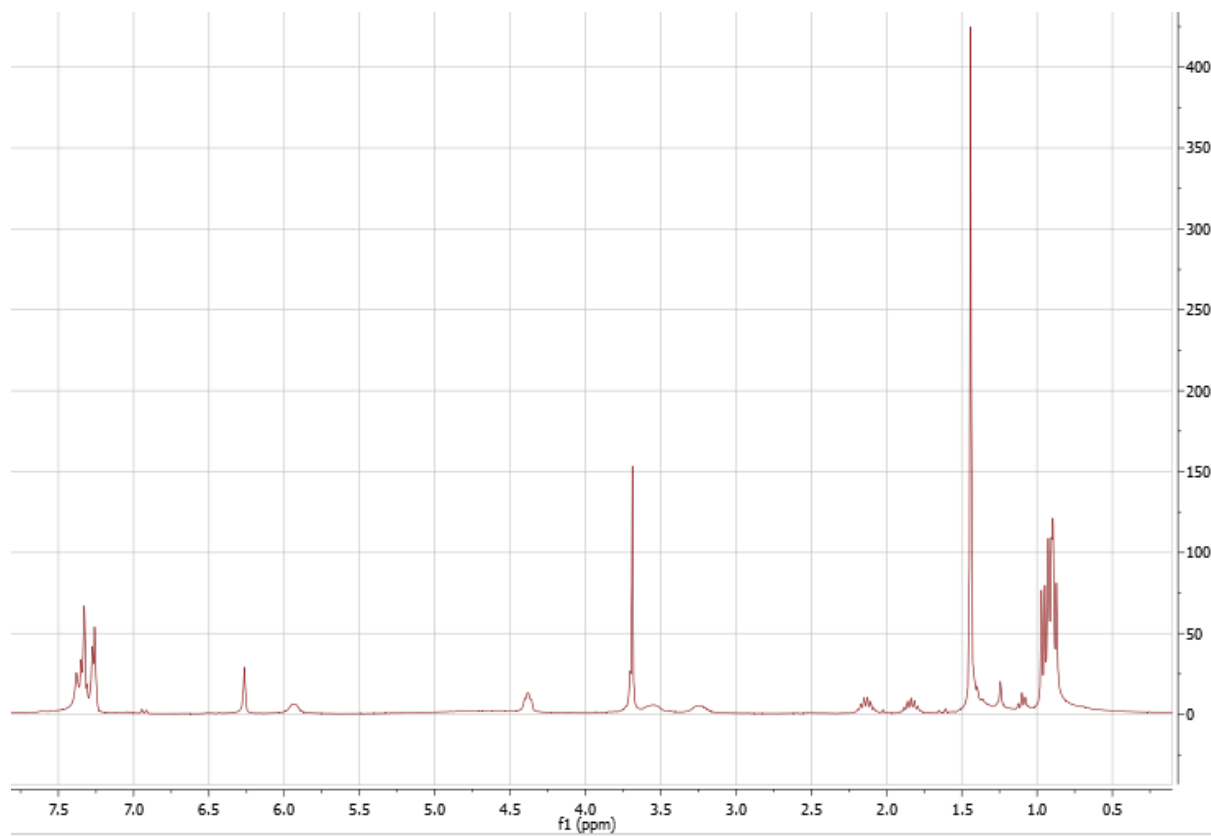
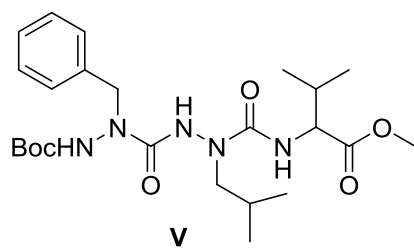


1D ^{13}C NMR spectrum of **IV** at 298K

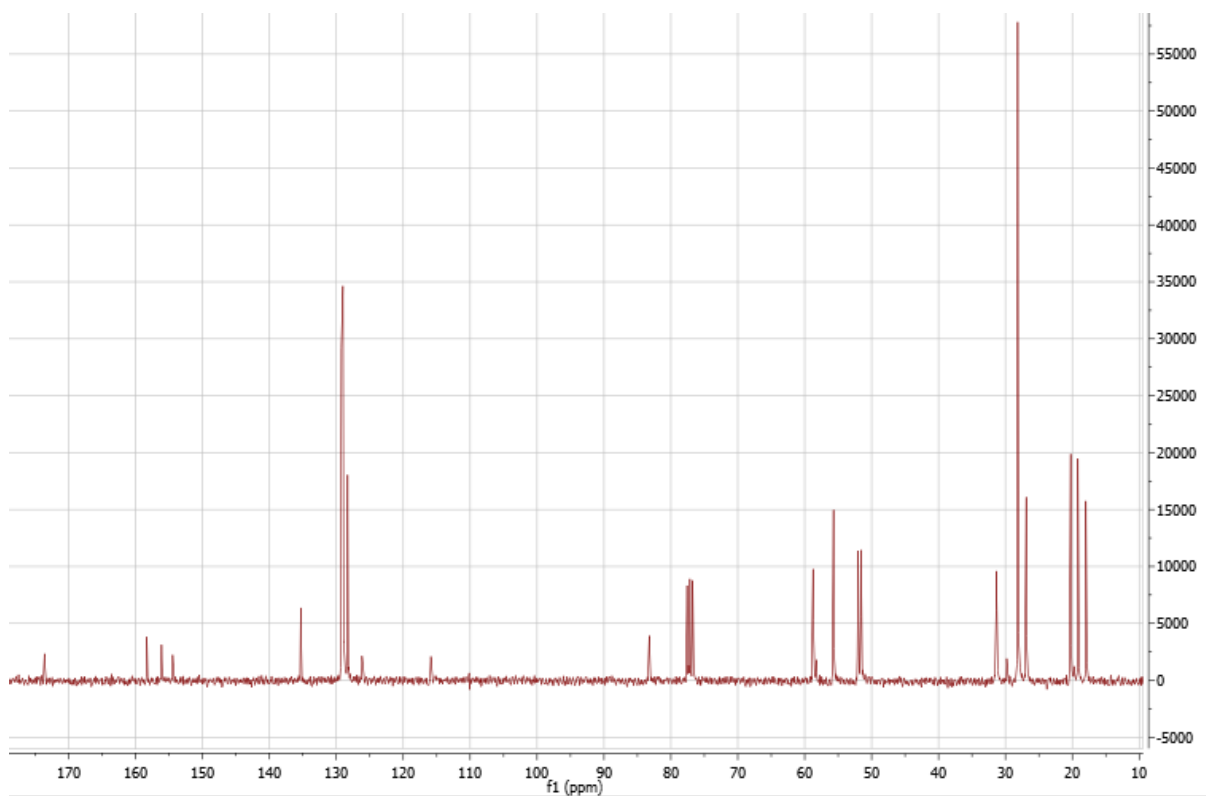
HPLC purity of **IV**



^1H and ^{13}C NMR spectra of **V in CDCl_3 :**

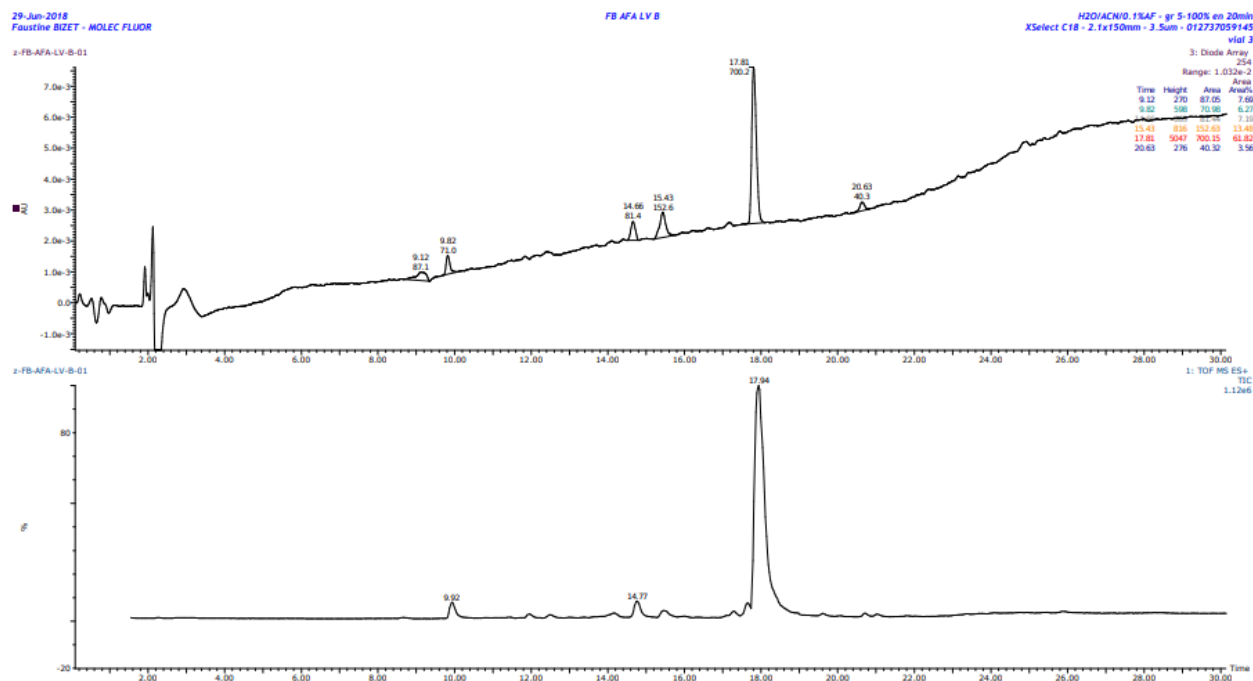


1D ^1H NMR spectrum of **V** at 298K



1D ^{13}C NMR spectrum of **V** at 298K

HPLC purity of **V**



z-FB-AFA-LV-B-01 583 (17.939) Cm (582:594-(562:573+623:637))

1: TOF MS ES+
3.57e6

