# **Electronic Supplementary Material**

# Phosphonate terminated PPH dendrimers: influence of pendant alkyl chains on the in vitro anti-HIV1 properties.

Alexandra Pérez-Anes,  $^{a,b,c}$  Grégory Spataro,  $^{a,b}$  Yannick Coppel,  $^{a,b}$  Muriel Blanzat,  $^{c*}$  Cédric-Olivier Turrin,  $^{a,b*}$  Christine Moog,  $^{d}$  Anne-Marie Caminade,  $^{a,b}$  Isabelle Rico-Lattes,  $^{c}$  Jean-Pierre Majoral.  $^{a,b}$ 

#### **Content:**

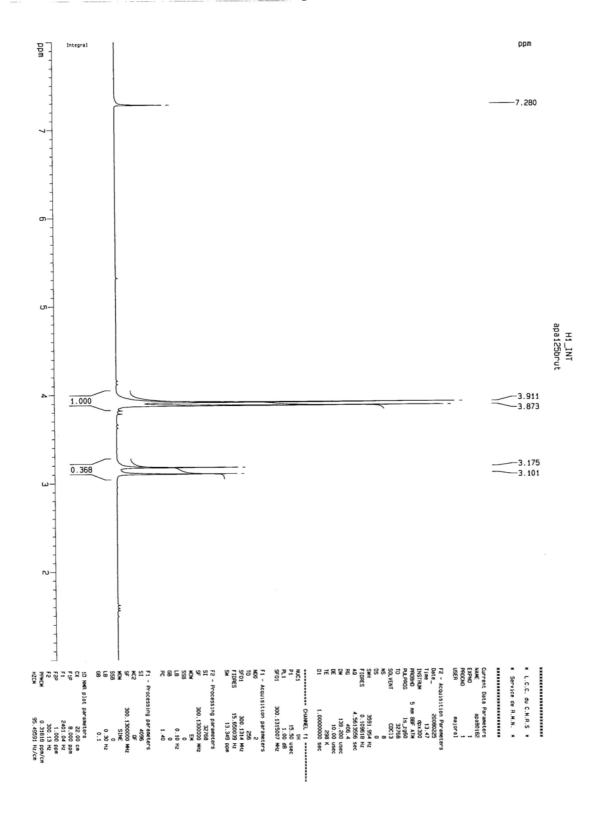
Compound 2:	<b>S2</b>
Compound 3:	<b>S5</b>
Compound <b>3a-Gc'<sub>1</sub></b> :	<b>S9</b>
Compound <b>3b-Gc'</b> <sub>1</sub> :	S13
Compound <b>3c-Gc'</b> <sub>1</sub> :	S16
Compound <b>4a:</b>	S19
Compound 4b:	S22
Compound 5:	S25
Compound 5a-Gc' <sub>1</sub> :	S29
Compound <b>5b-Gc'</b> <sub>1</sub> :	S33
Compound <b>5c-Gc'</b> <sub>1</sub> :	S36
Compound <b>6a:</b>	S39
Compound <b>6b</b> :	S43
Compound 7:	S46
Compound 7a-Gc' <sub>1</sub> :	S50
Compound <b>7b-Gc'</b> <sub>1</sub> :	S54
Compound <b>7c-Gc'</b> <sub>1</sub> :	S58
Compound 5c-Gc' <sub>1</sub> and 7c-Gc' <sub>1</sub> (NOESY):	S62

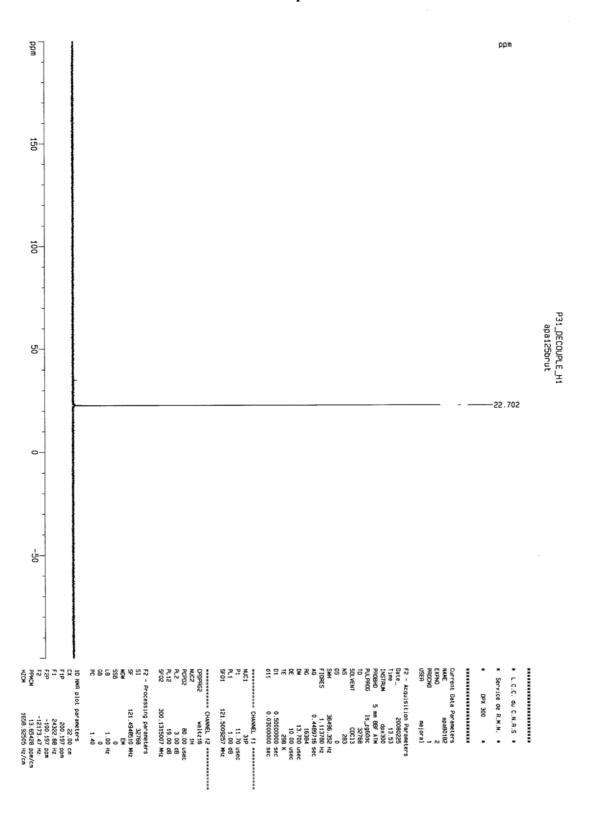
<sup>&</sup>lt;sup>a</sup> Laboratoire de Chimie de Coordination du CNRS, UPR 8241, 205 route de Narbonne, F-31077 Toulouse, France. Fax: +33(0)561 553 003; Tel: +33(0)561 333 134; E-mail: turrin@lcc-toulouse.fr.

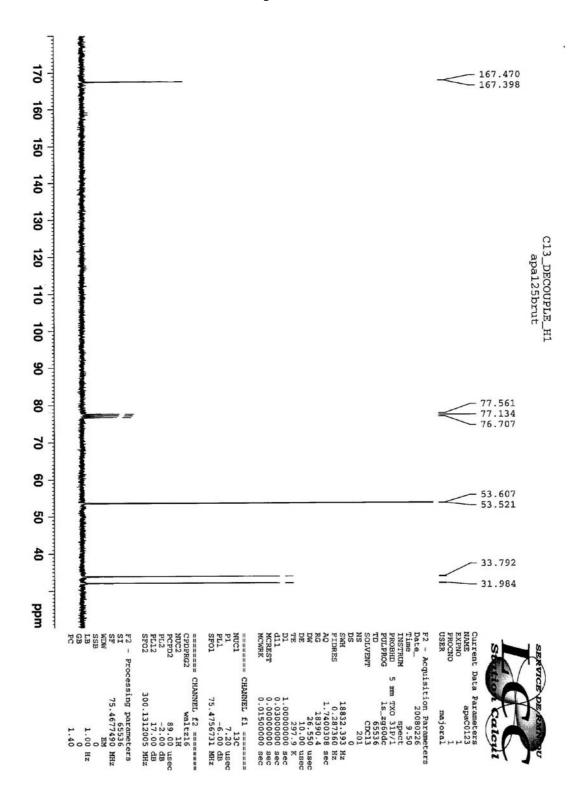
<sup>&</sup>lt;sup>b</sup> Université de Toulouse; UPS, INPT; LCC; F-31077 Toulouse, France

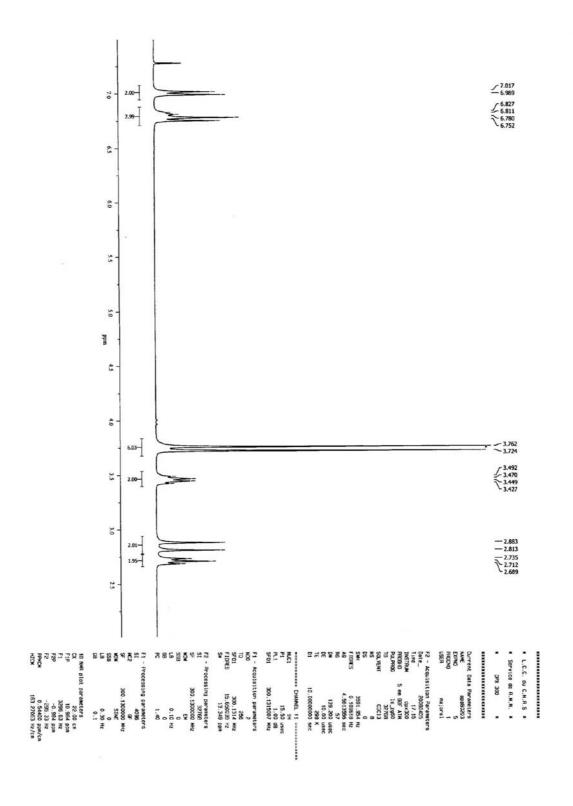
<sup>&</sup>lt;sup>c</sup> Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, CNRS UMR5063. Université Paul Sabatier, 118 Route de Narbonne, 31062 Toulouse cedex (France). Fax +33 5 61 55 81 55; E-mail: blanzat@chimie.ups-tlse.fr.

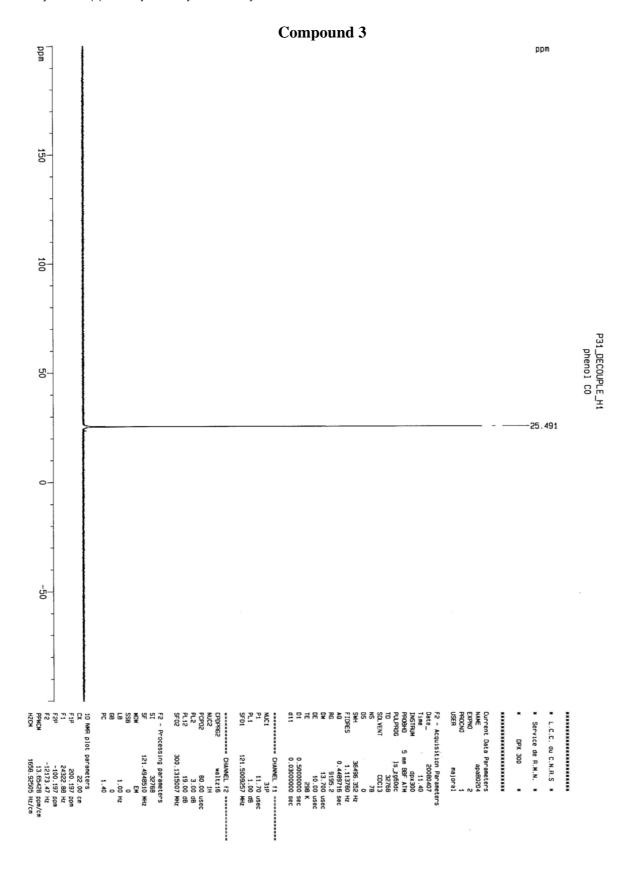
d Institut de Virologie, INSERM U544, Faculté de Médecine, 3 rue Koeberlé, F-67000 Strasbourg, France

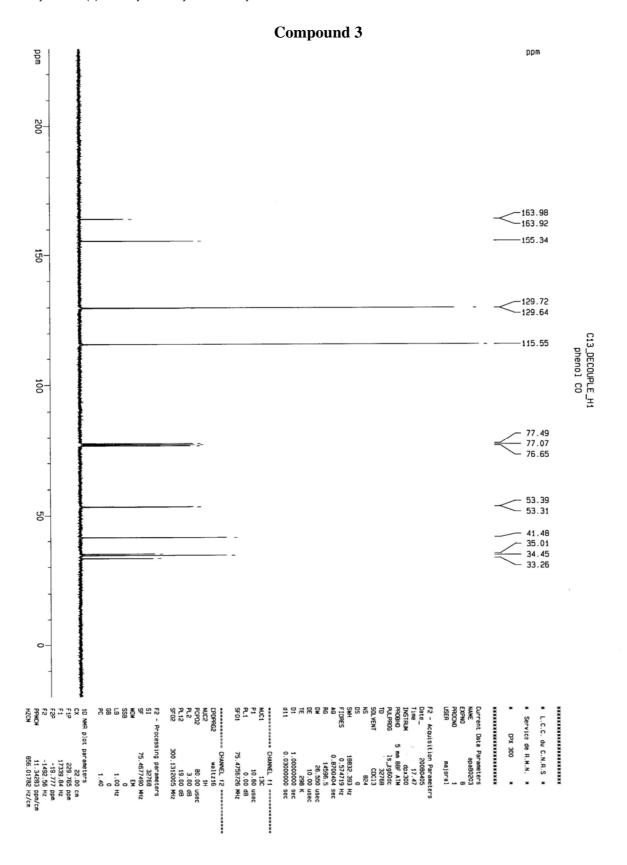


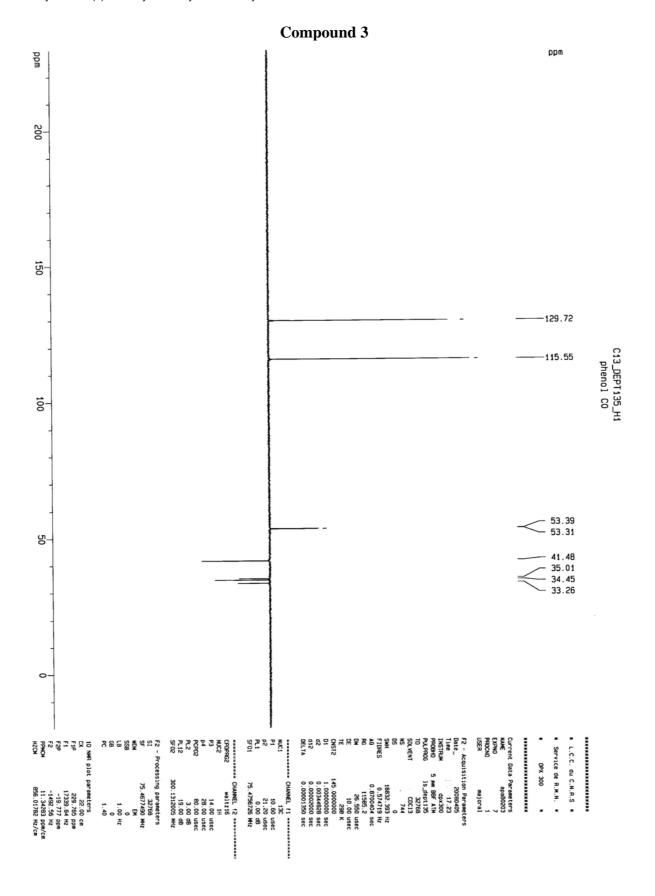




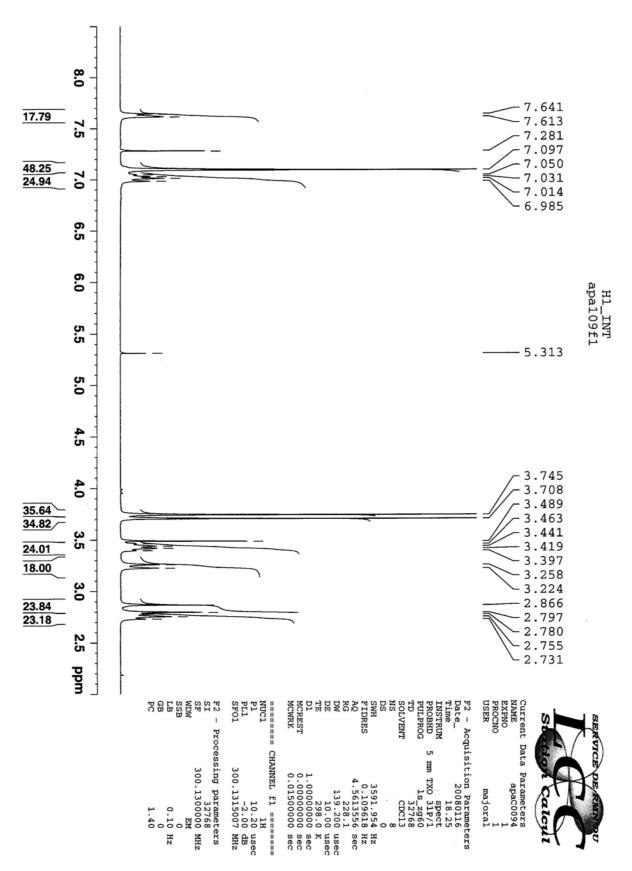




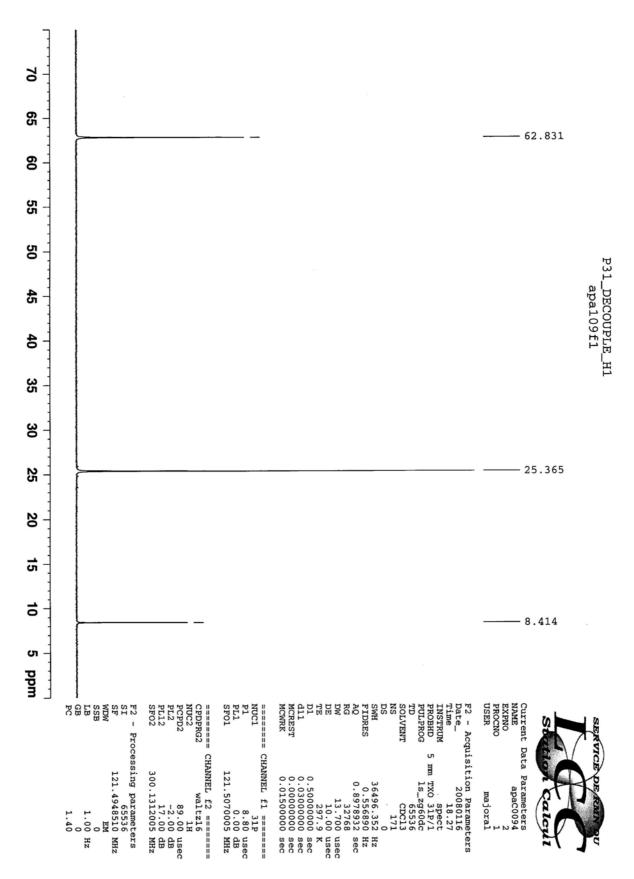


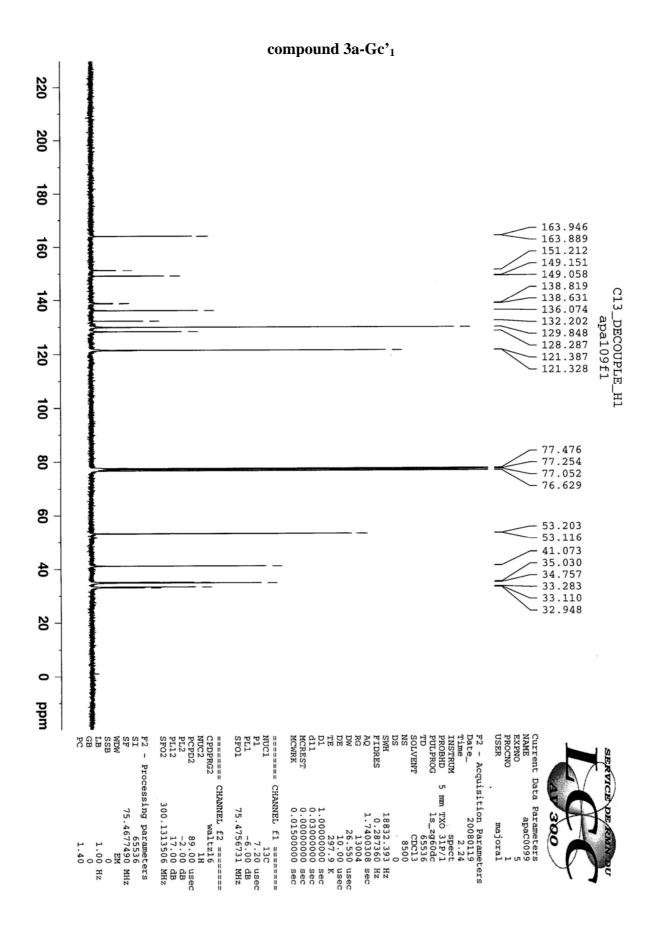


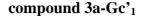
#### Compound 3a-Gc'<sub>1</sub>

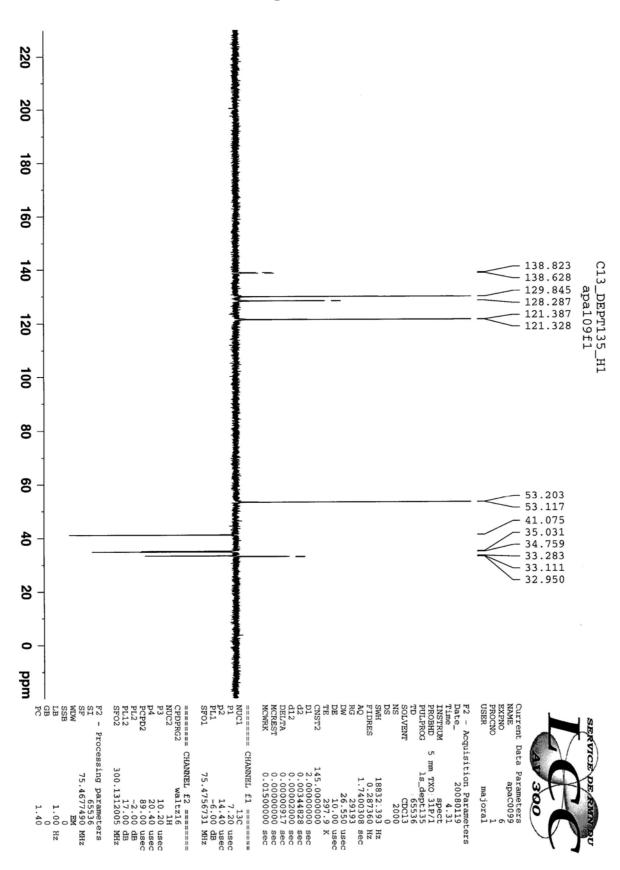


#### Compound 3a-Gc'<sub>1</sub>

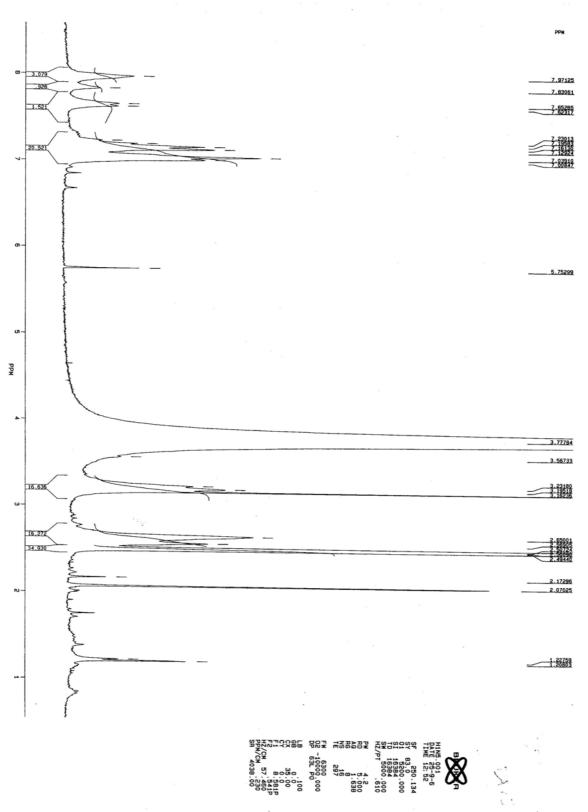




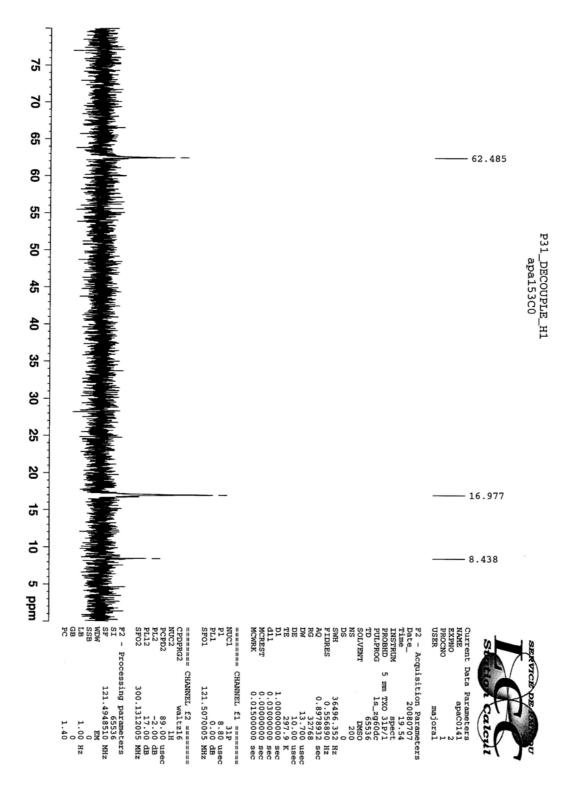




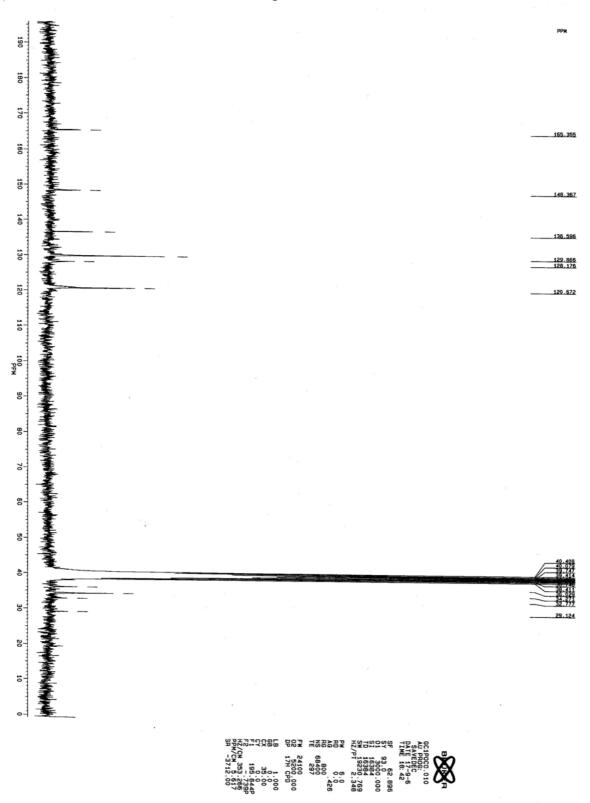
# Compound 3b-Gc'<sub>1</sub>



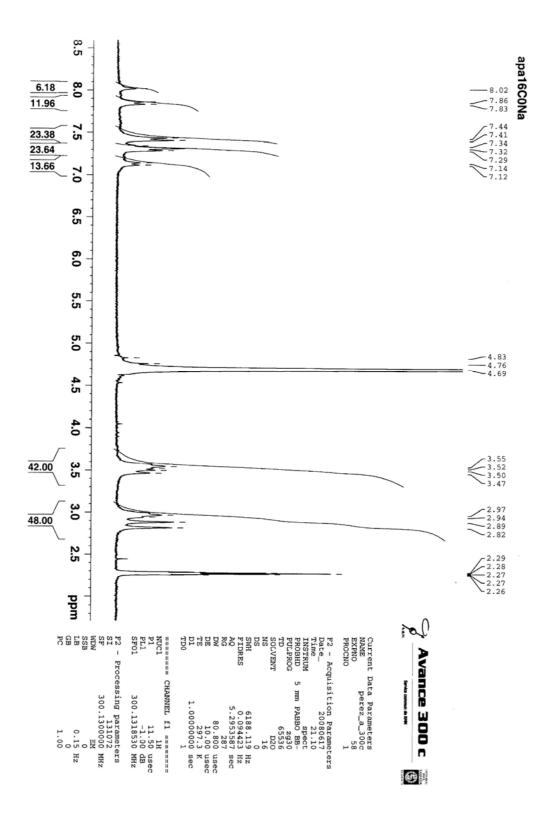
# Compound 3b-Gc'<sub>1</sub>



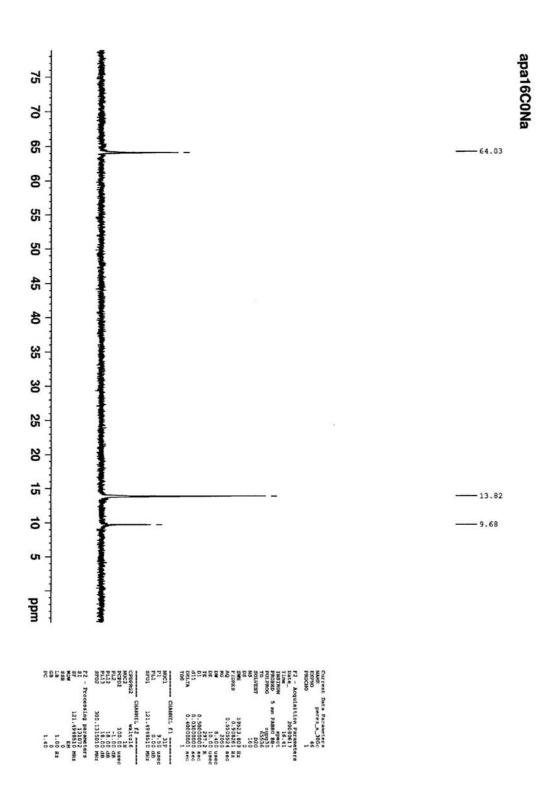
# Compound 3b-Gc'<sub>1</sub>



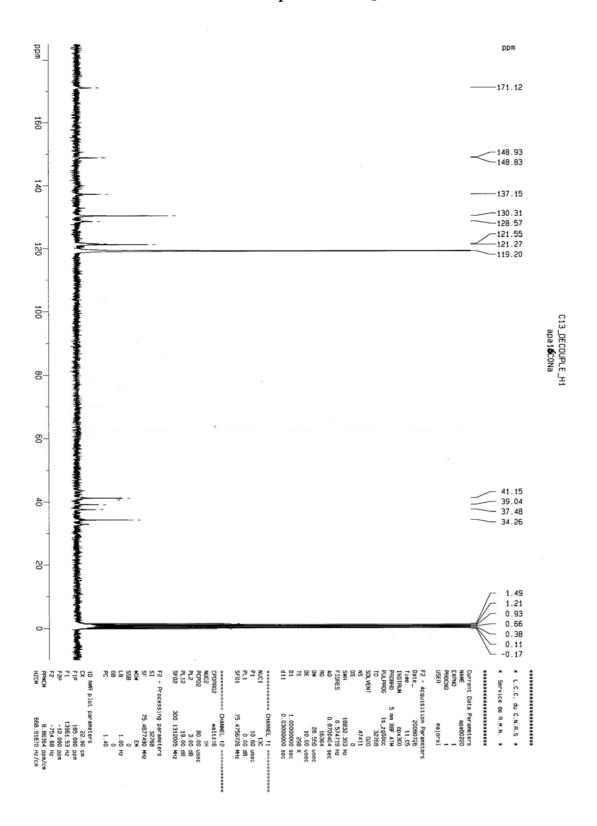
# Compound 3c-Gc'<sub>1</sub>

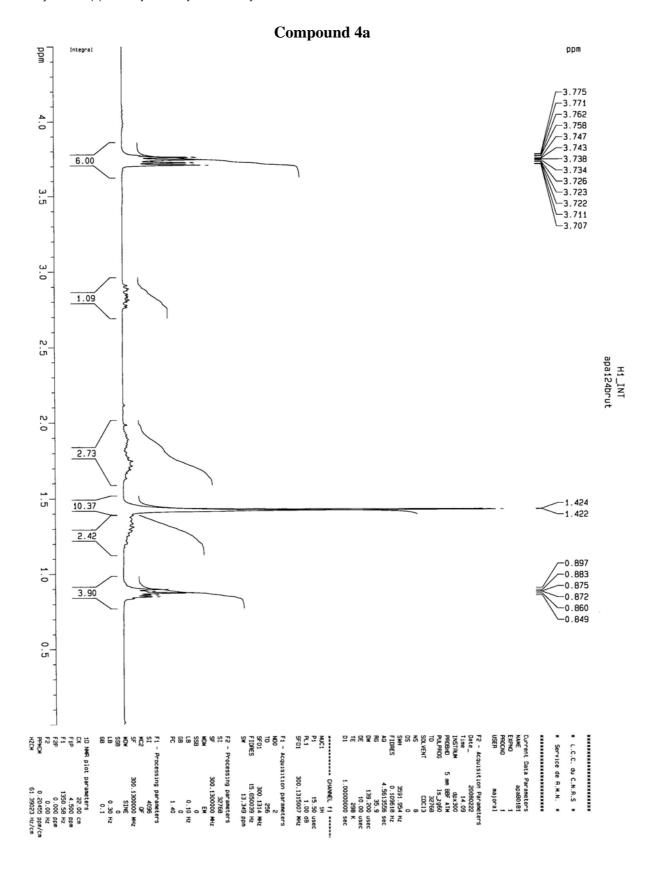


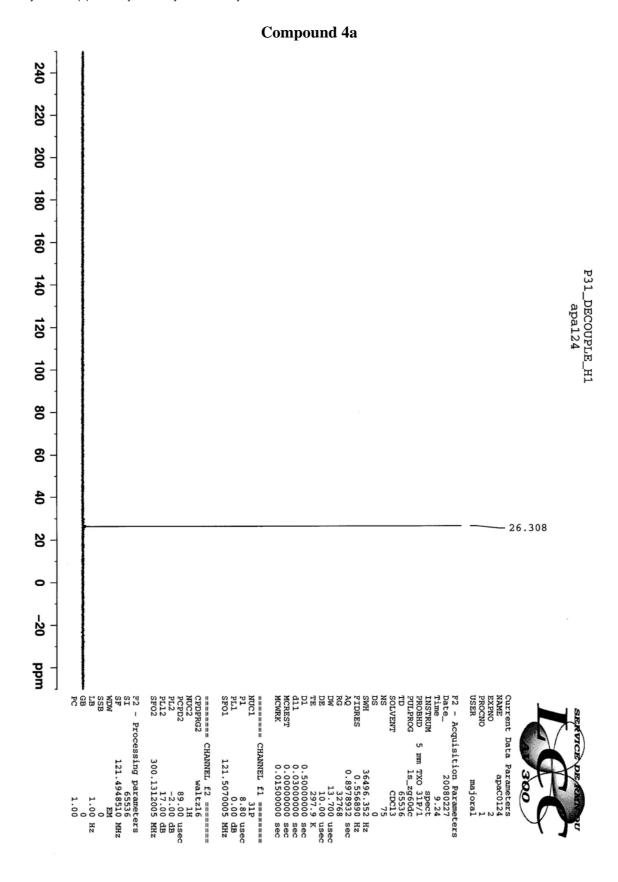
# Compound 3c-Gc'<sub>1</sub>



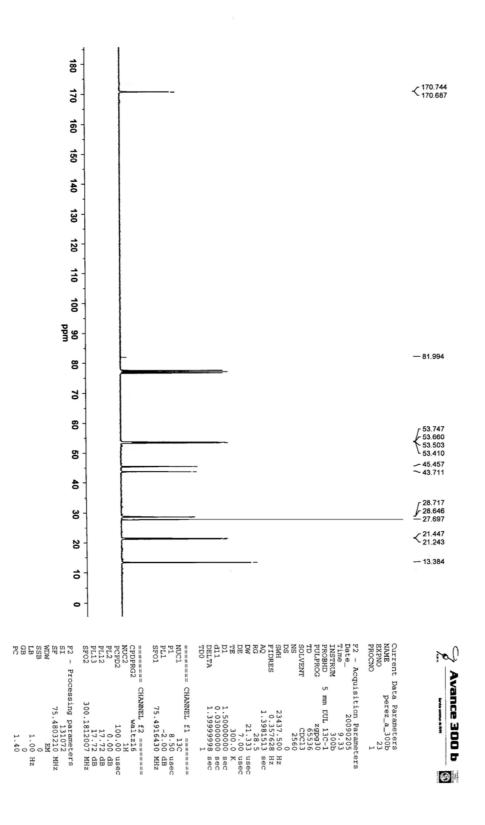
#### Compound 3c-Gc'<sub>1</sub>



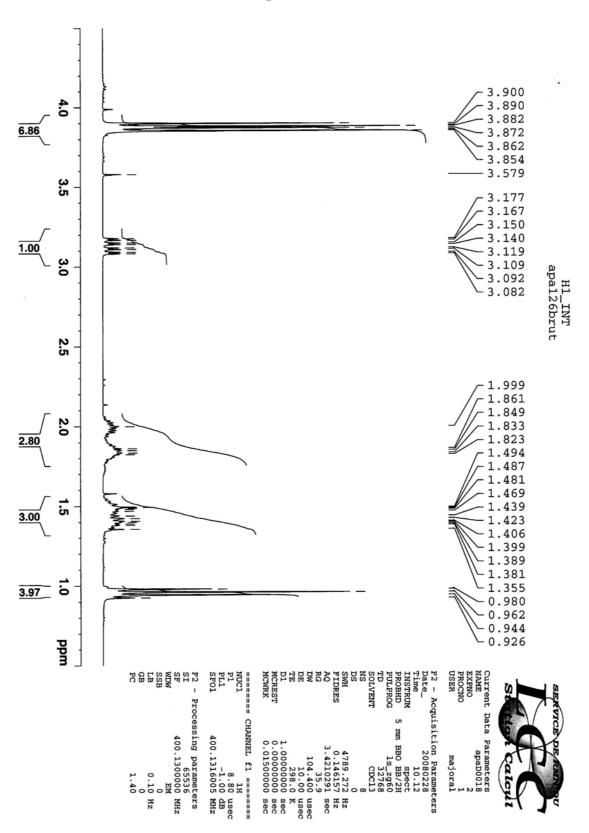




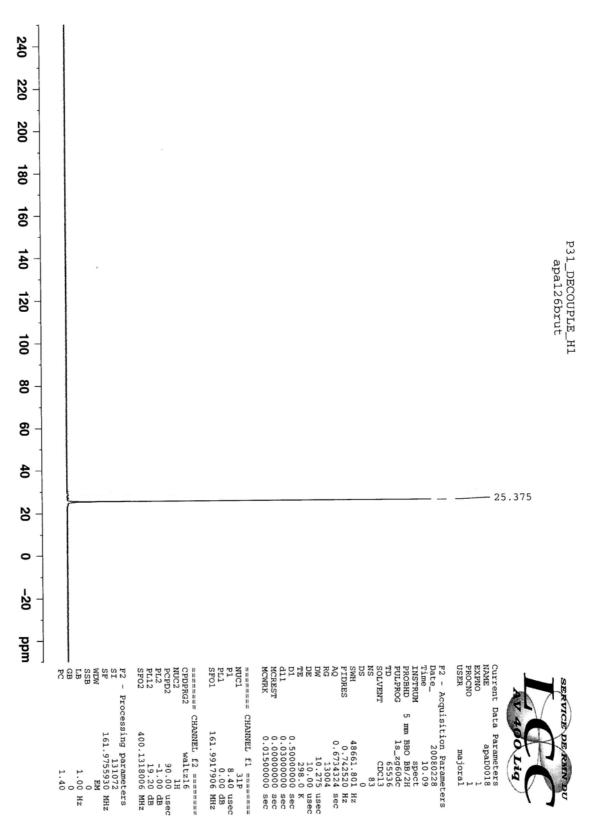
#### Compound 4a



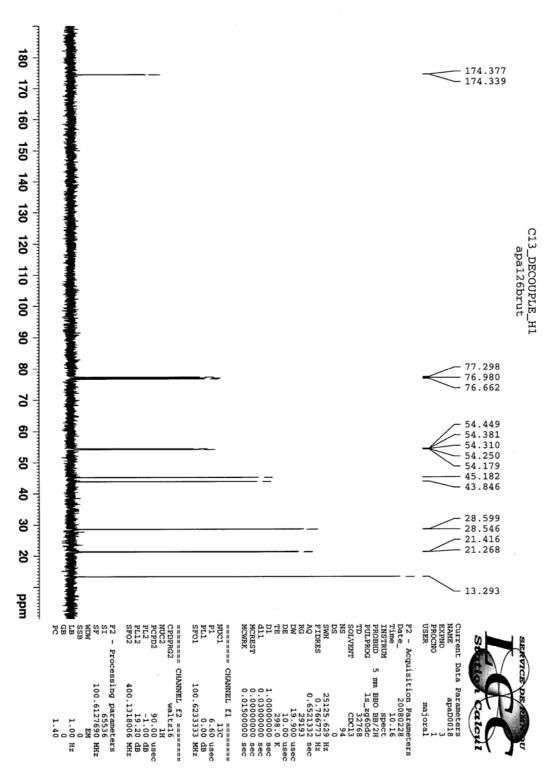


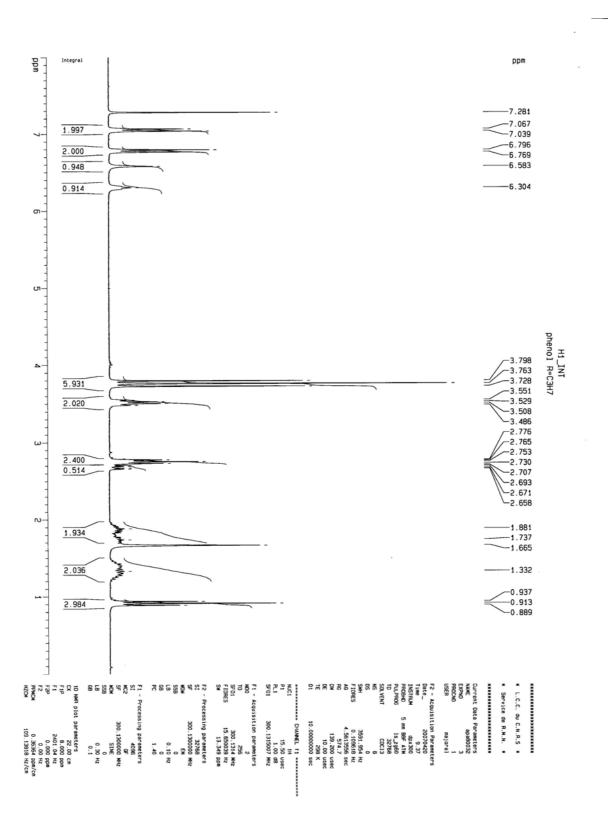


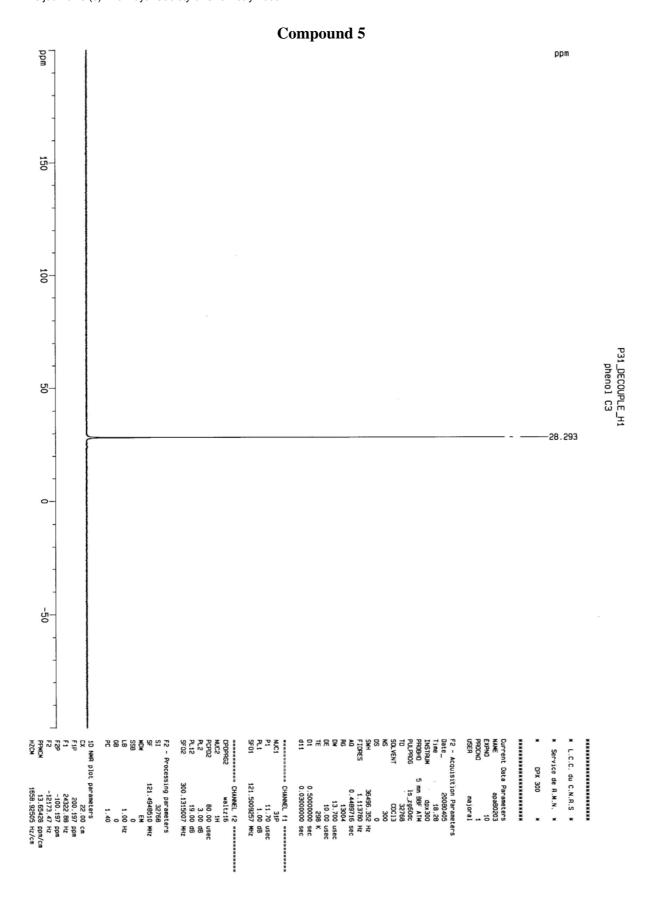
#### Coumpoun 4b

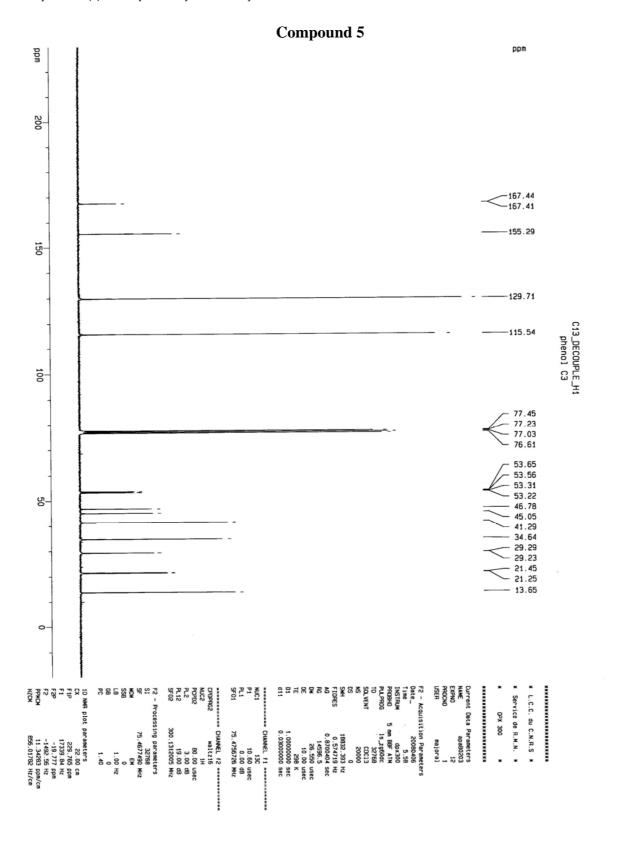


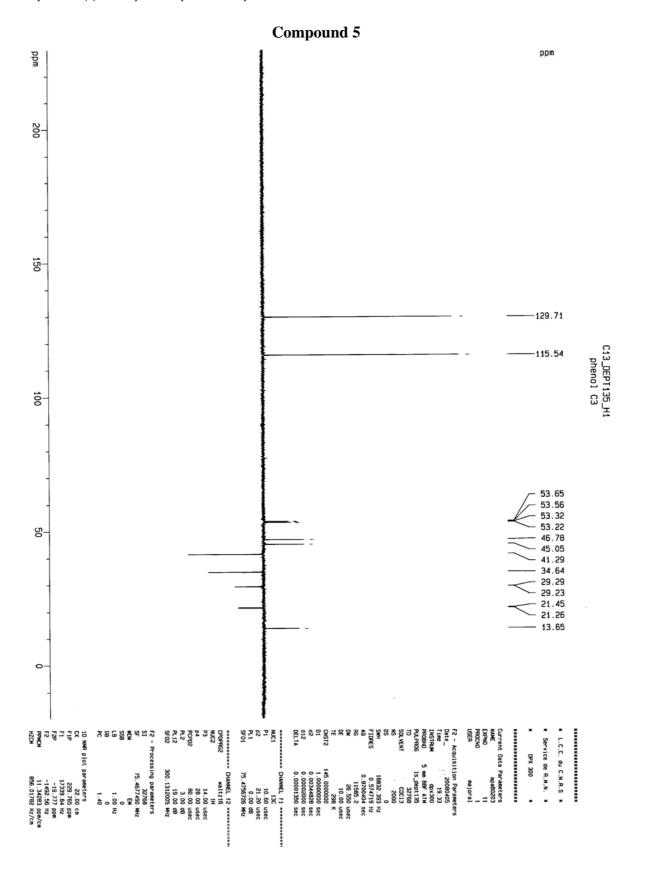
#### Compound4b



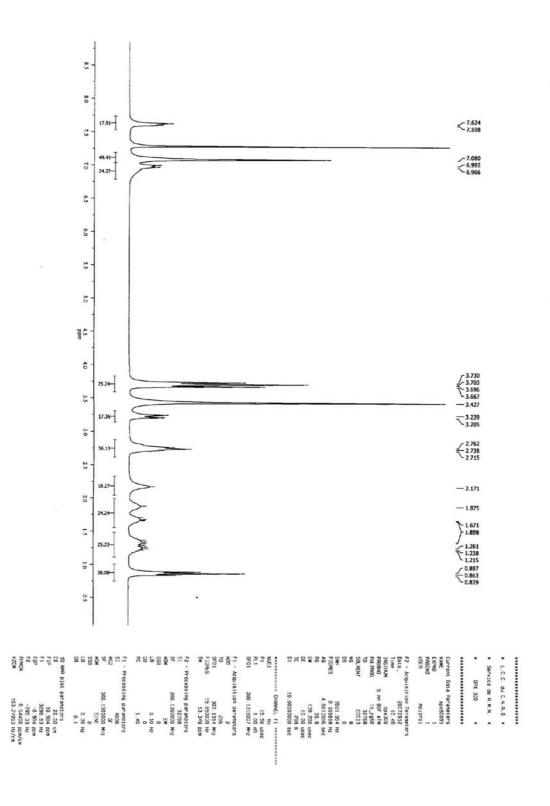




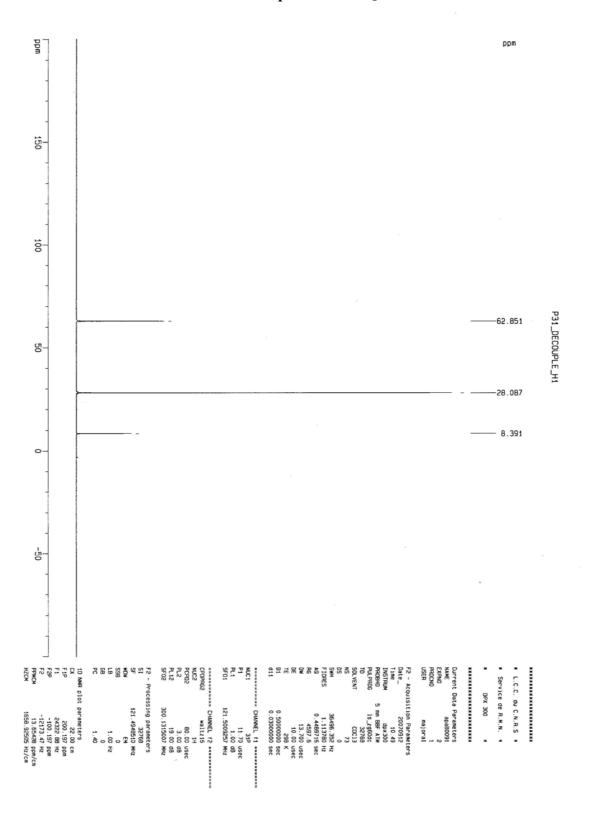


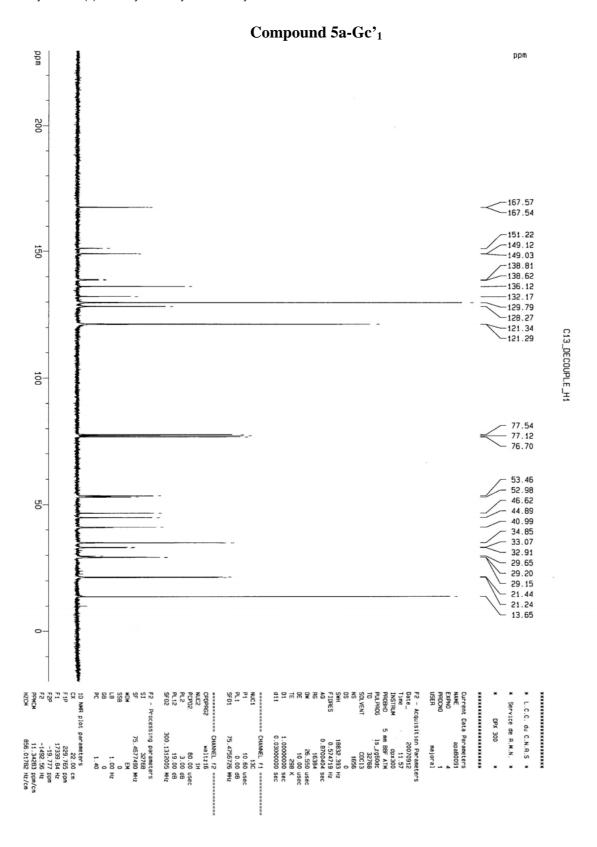


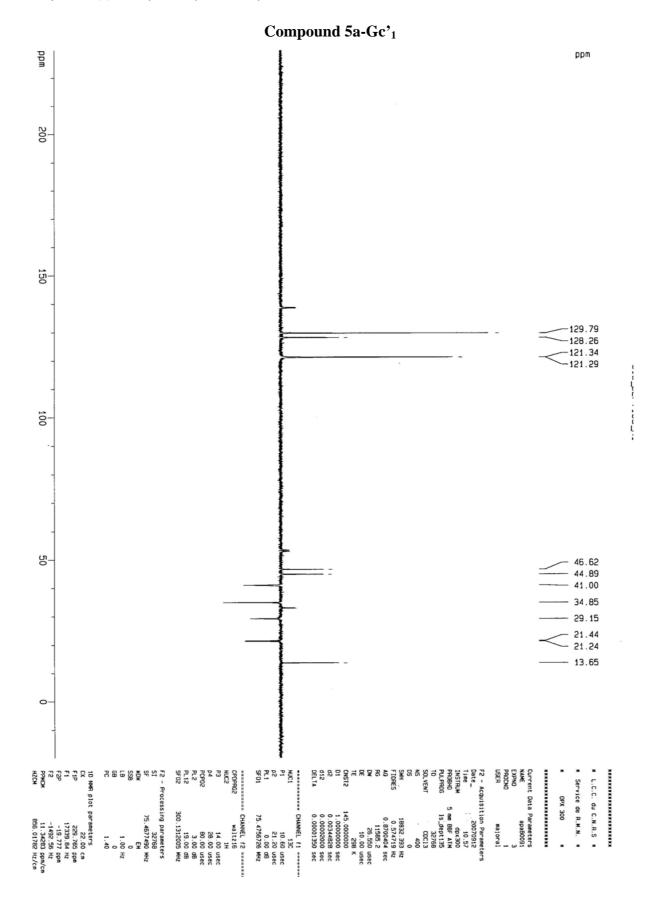
# Compound 5a-Gc'<sub>1</sub>



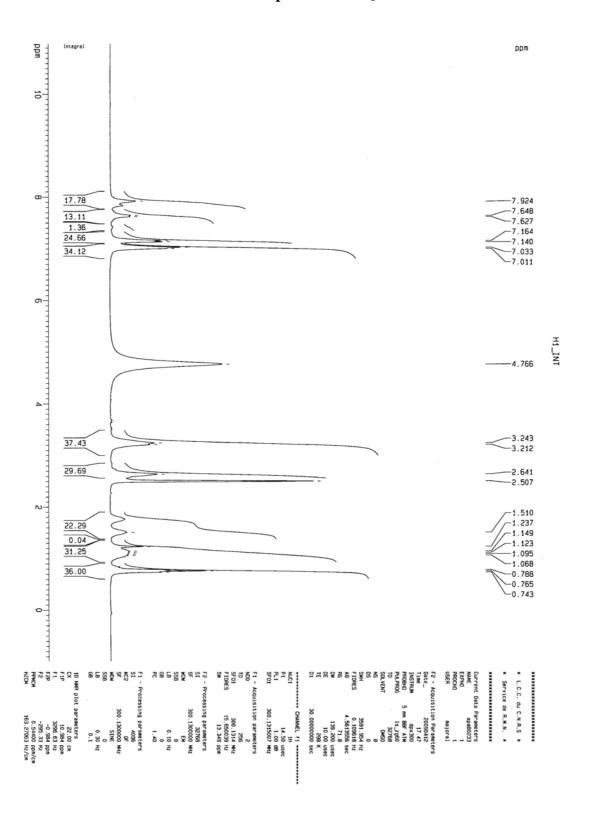
# Compound 5a-Gc'<sub>1</sub>



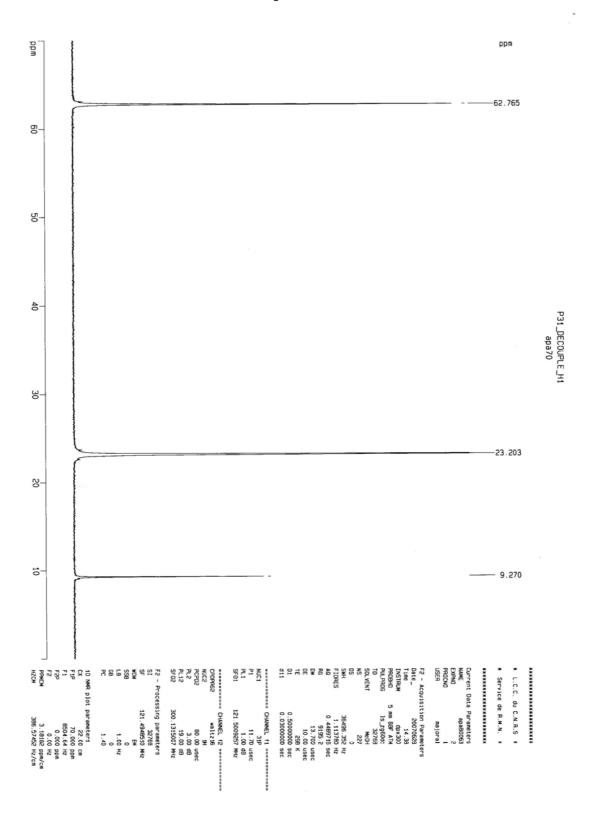




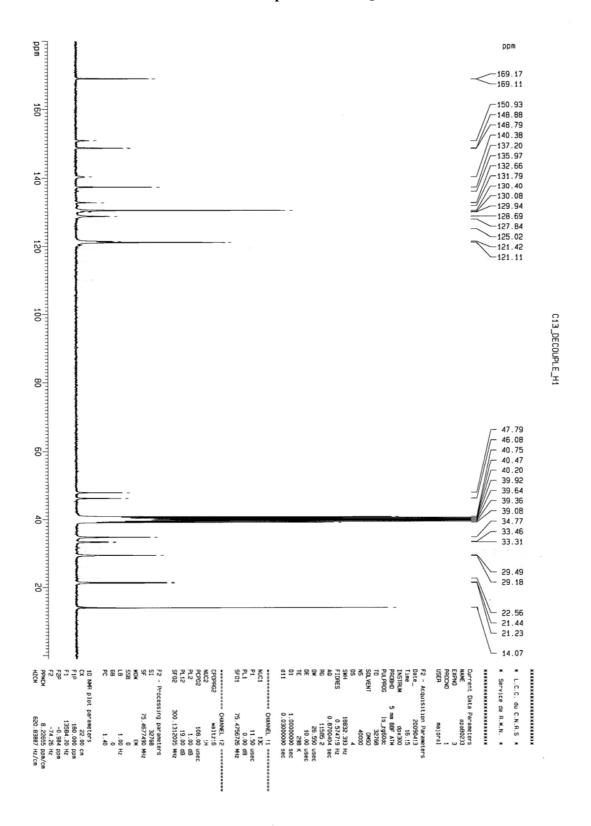
#### Compound 5b-Gc'<sub>1</sub>



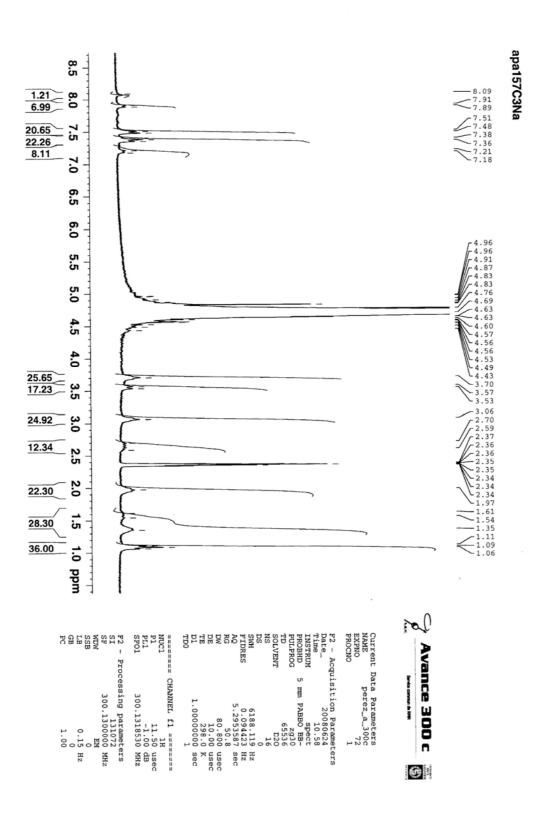
# Compound 5b-Gc'<sub>1</sub>

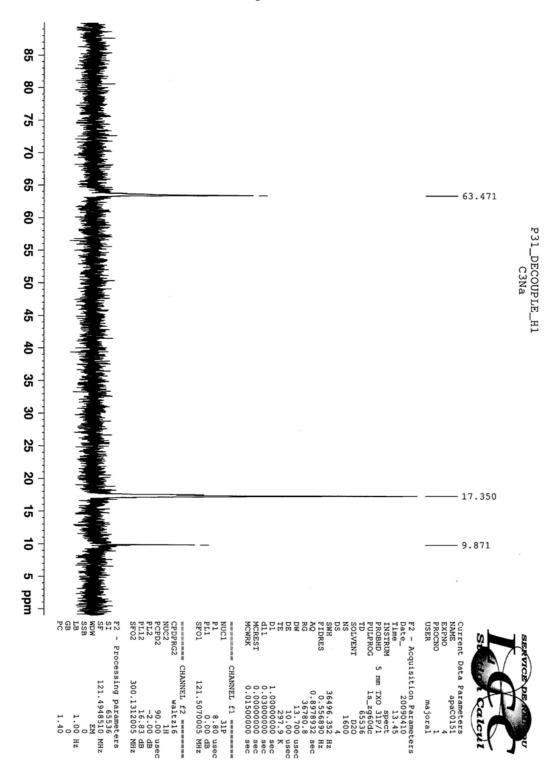


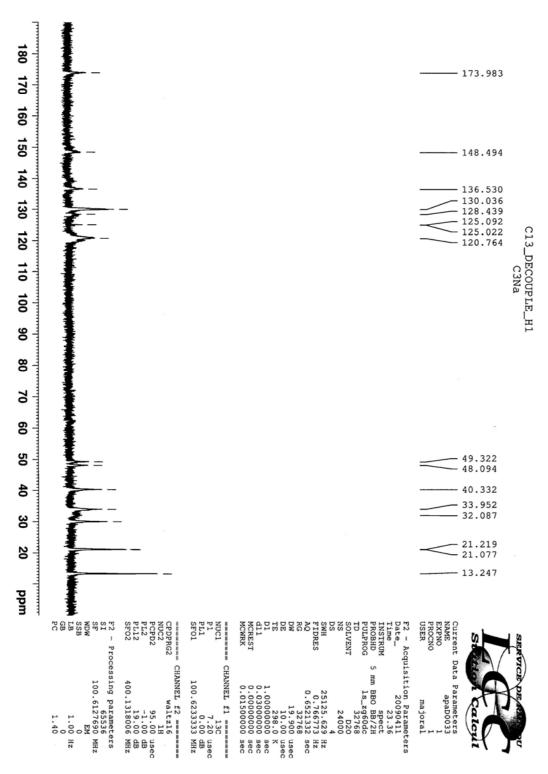
#### Compound 5b-Gc'<sub>1</sub>

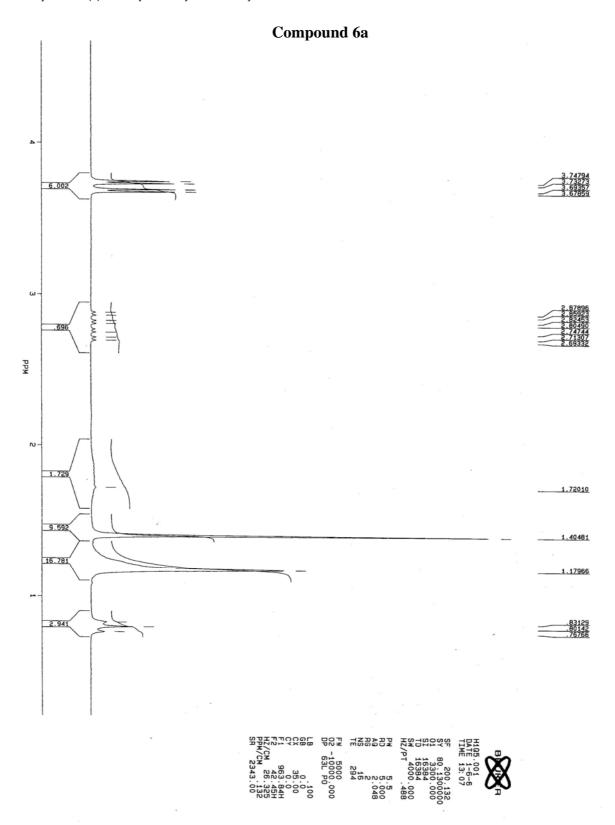


#### Compound 5c-Gc'<sub>1</sub>

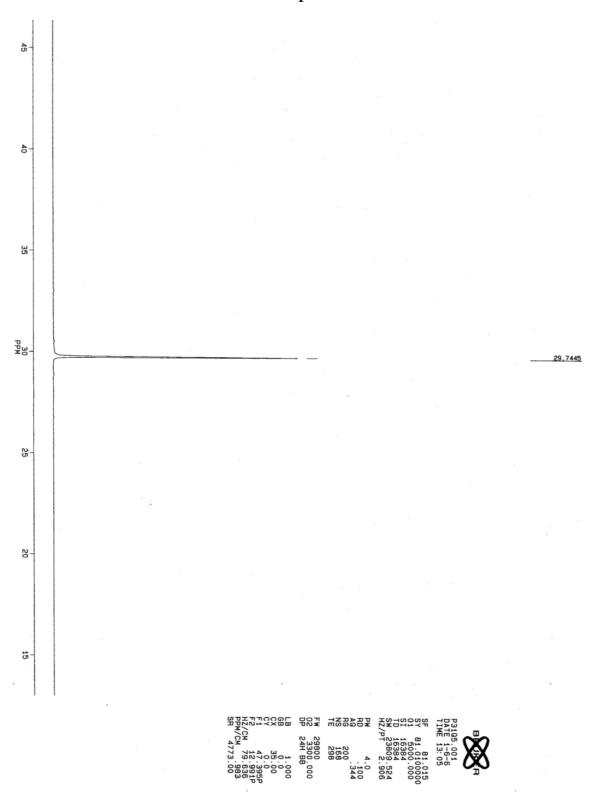


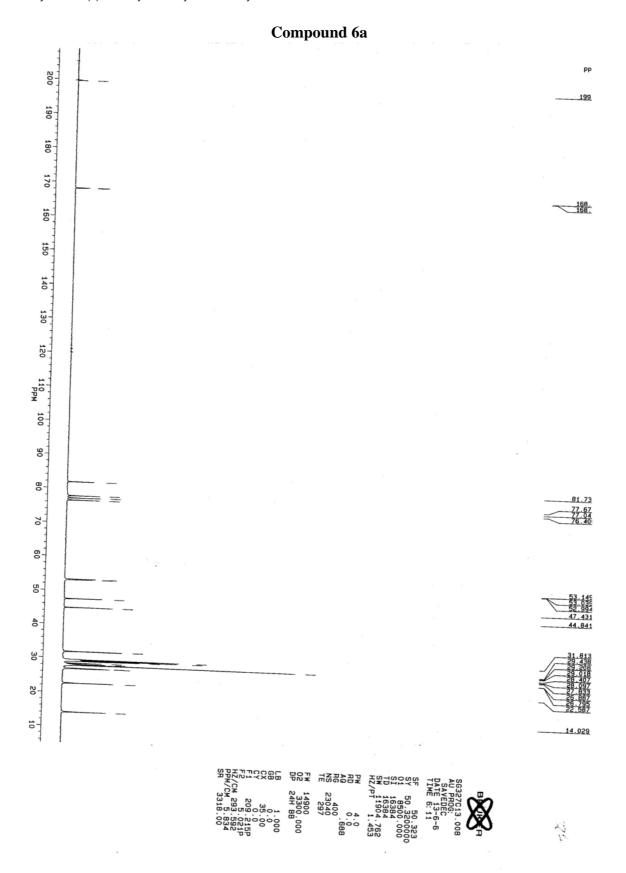


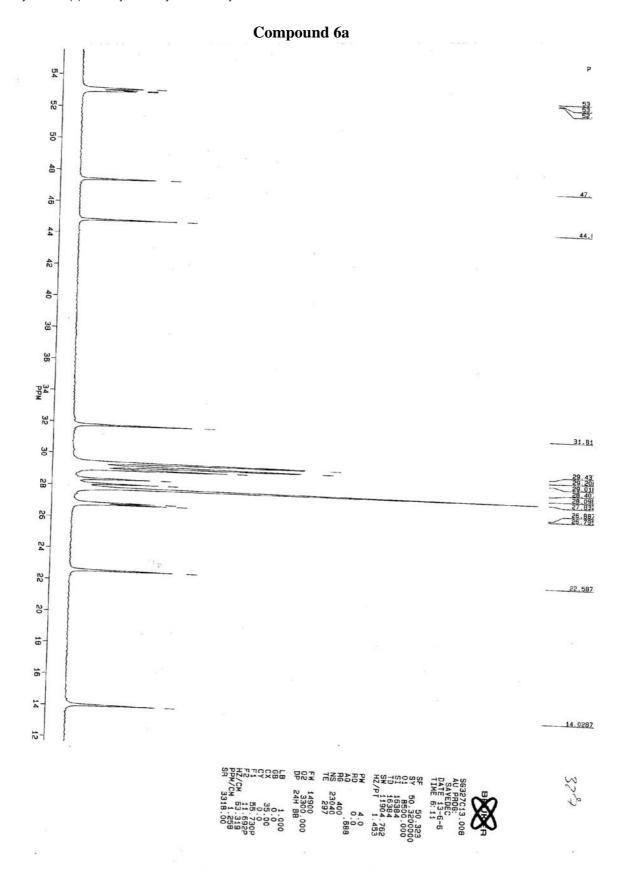


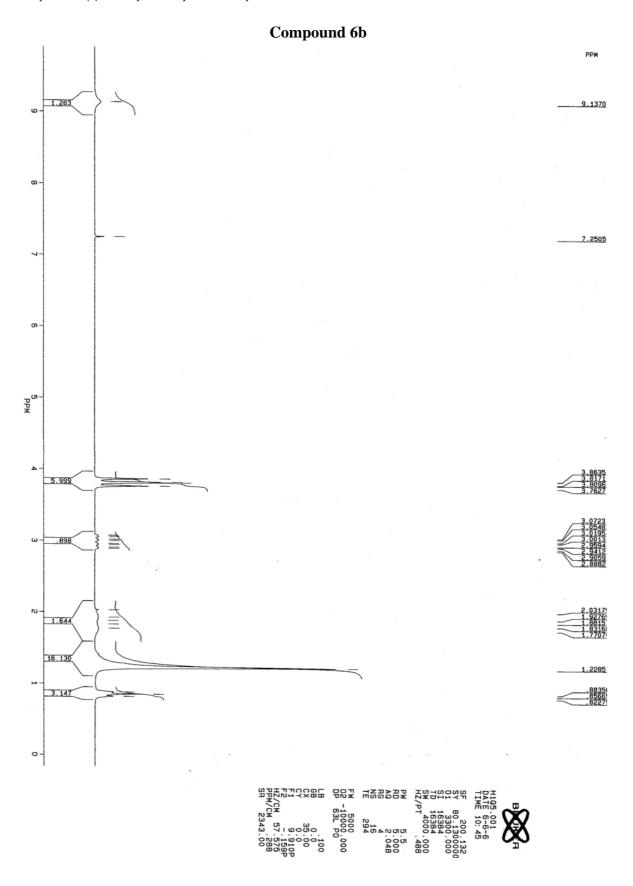


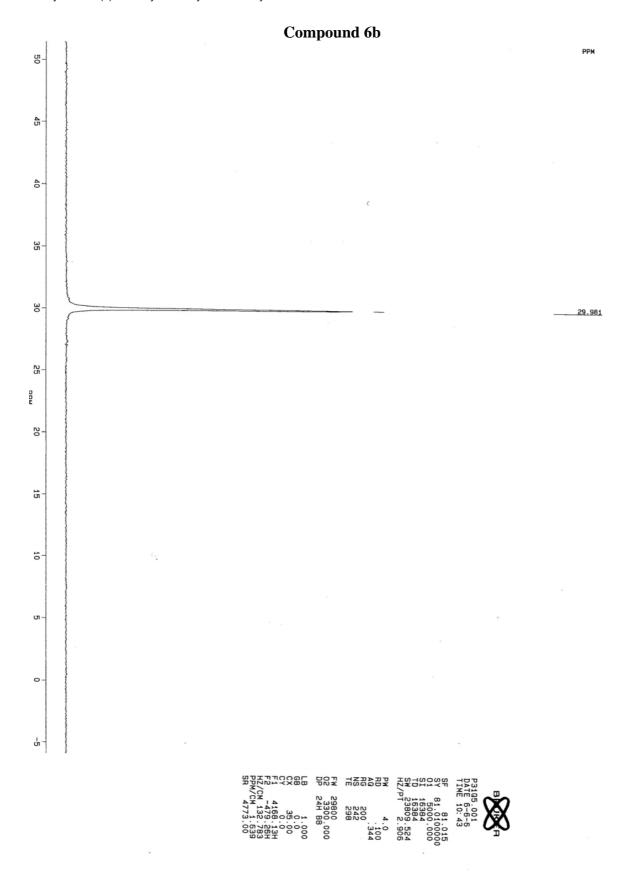
# Compound 6a



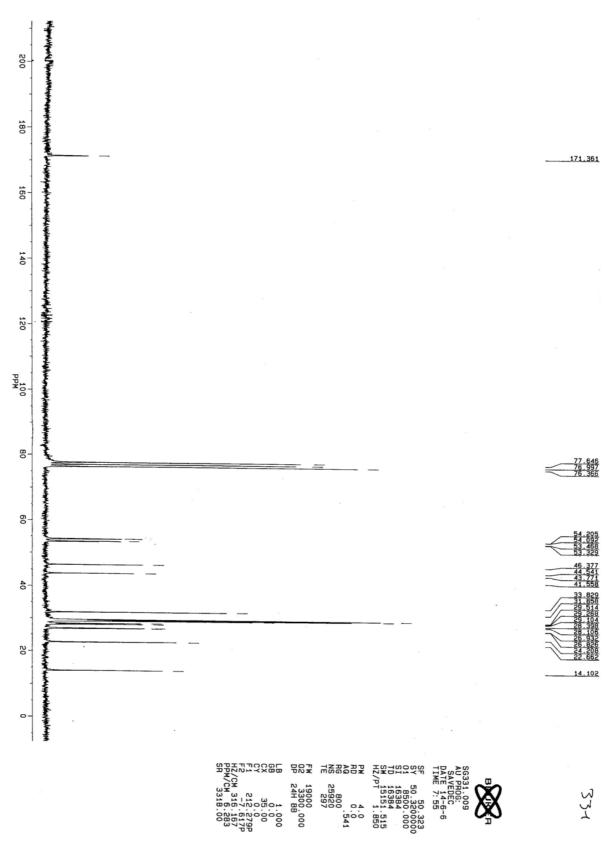


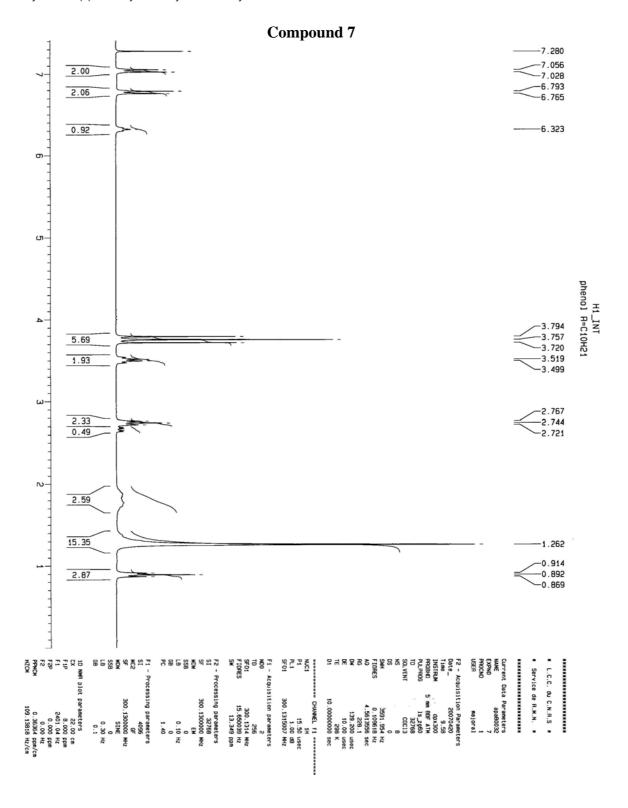


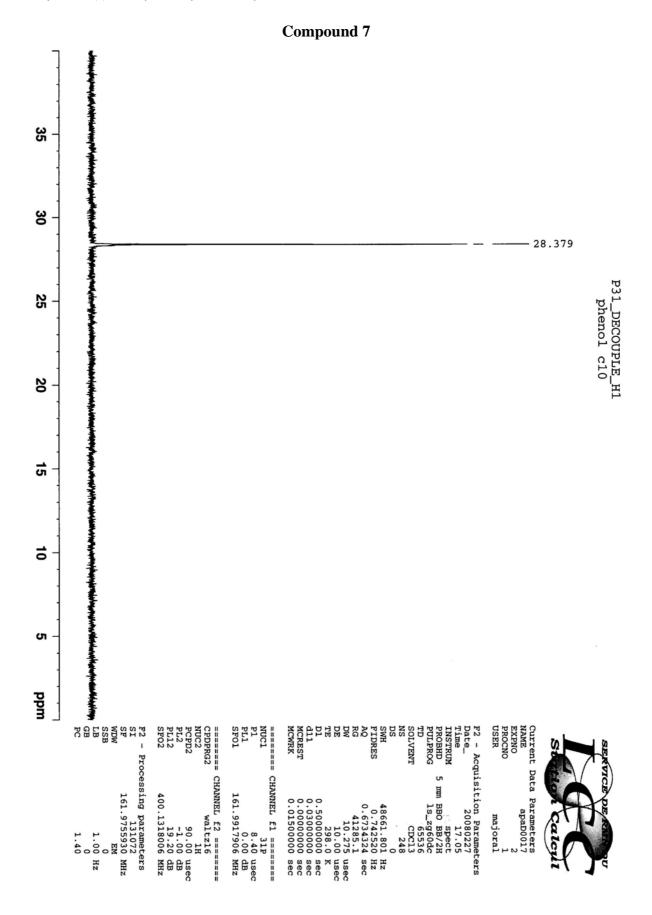


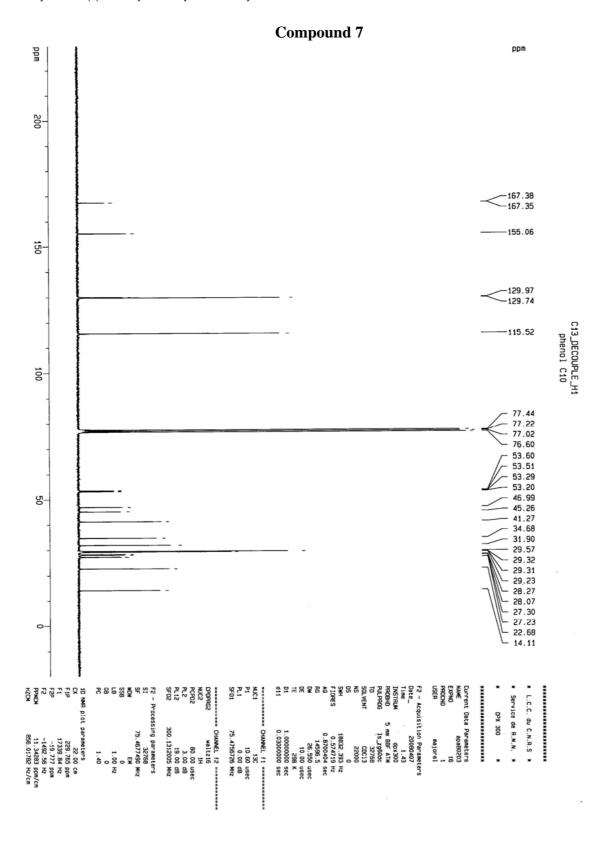


# **Compound 6b**









## **Compound 7**

