

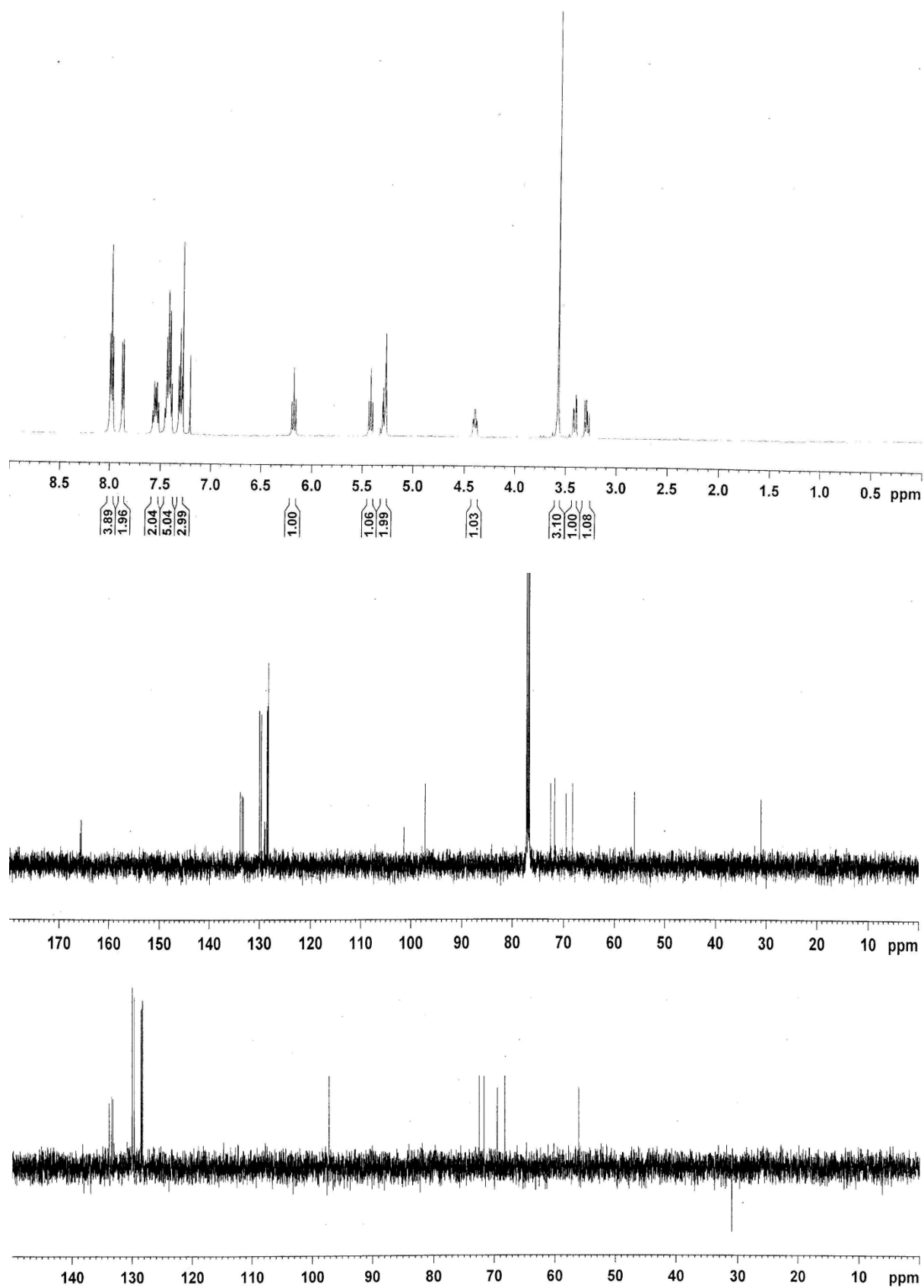
Supporting Information

On-Water synthesis of glycosyl selenocyanate derivatives and their application in the metal free organocatalytic preparation of nonglycosidic selenium linked pseudodisaccharide derivatives

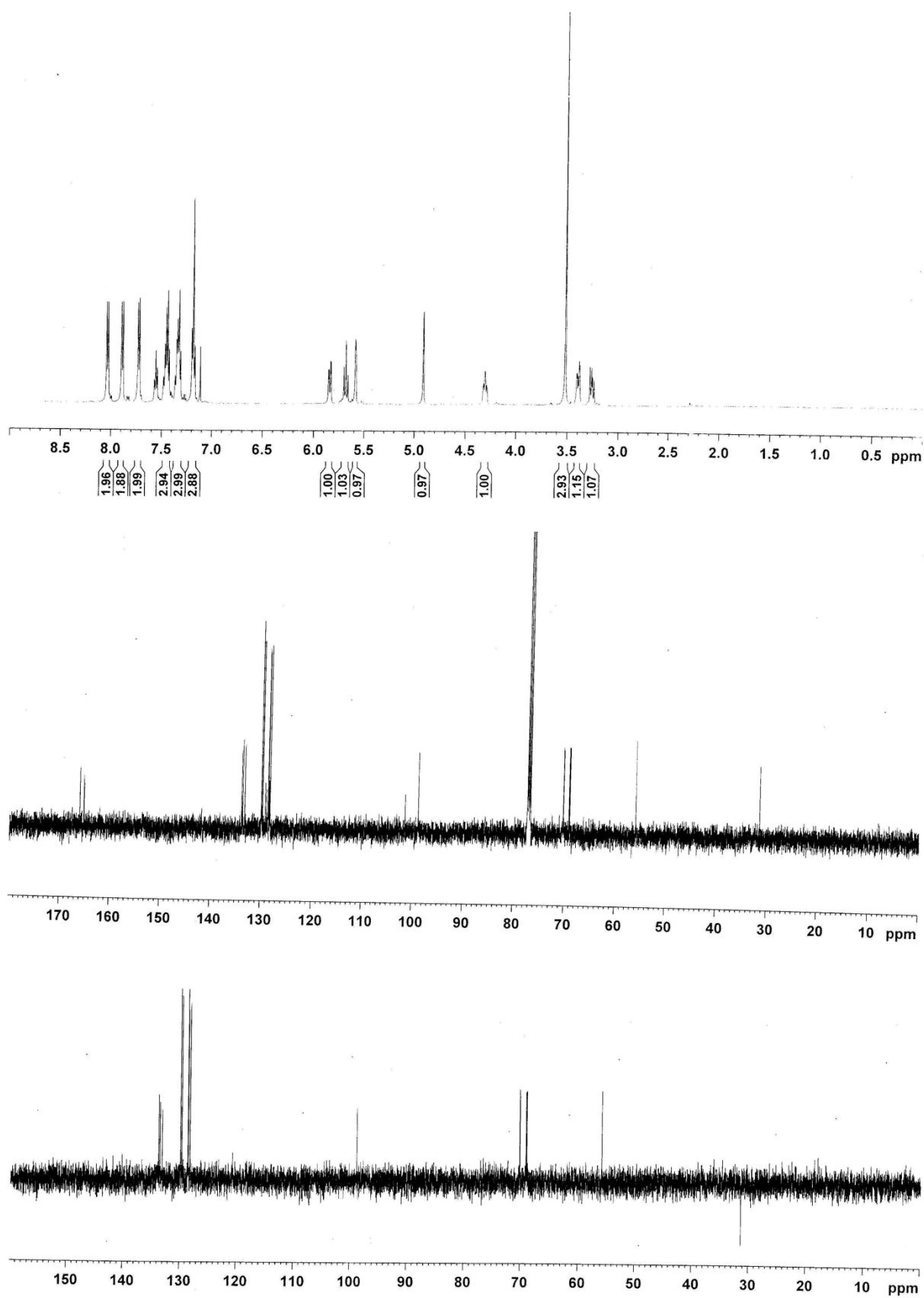
Tapasi Manna and Anup Kumar Misra*

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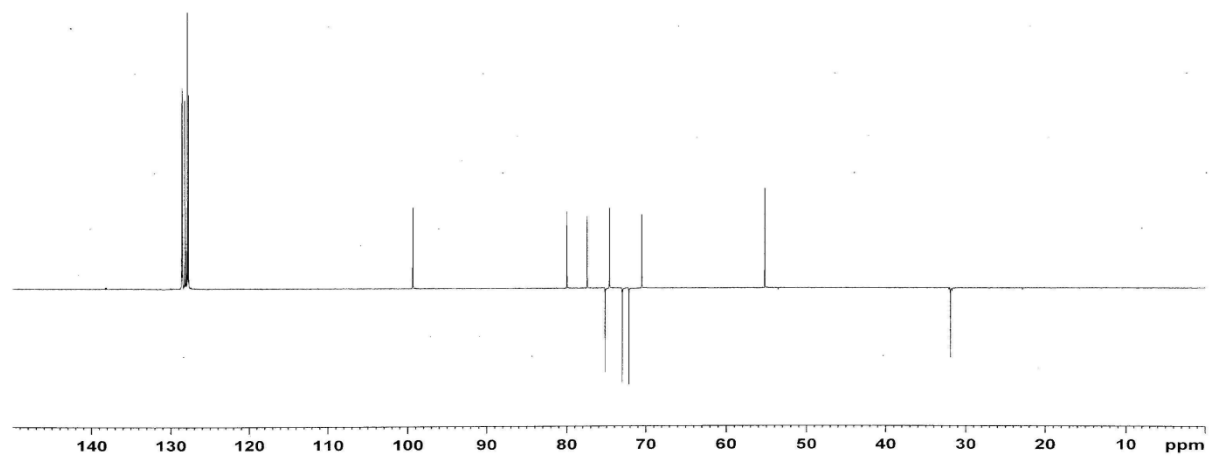
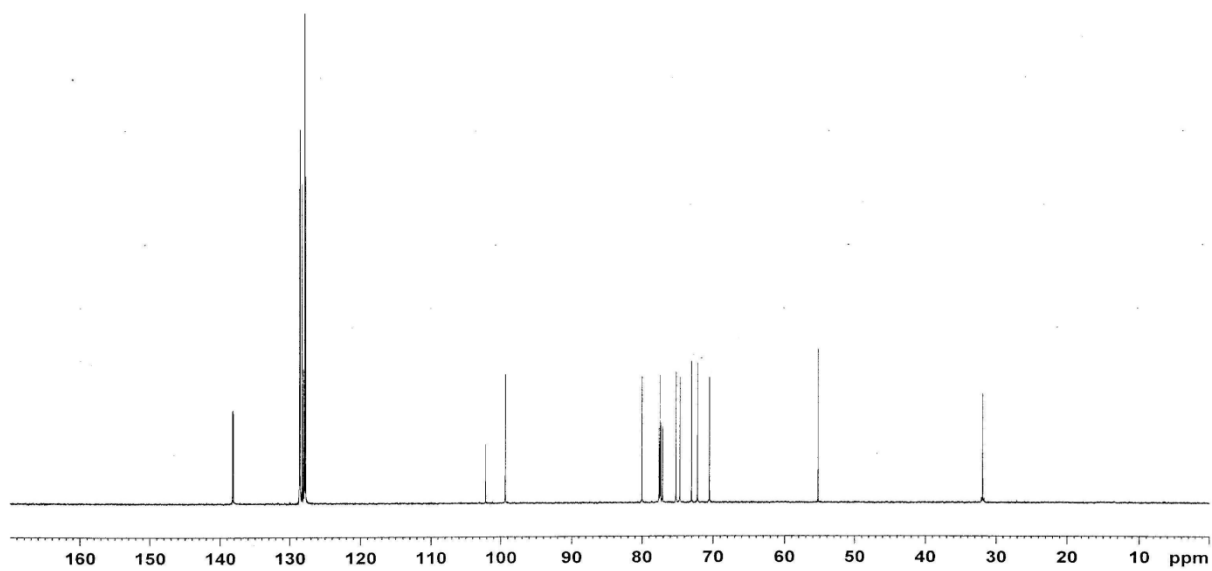
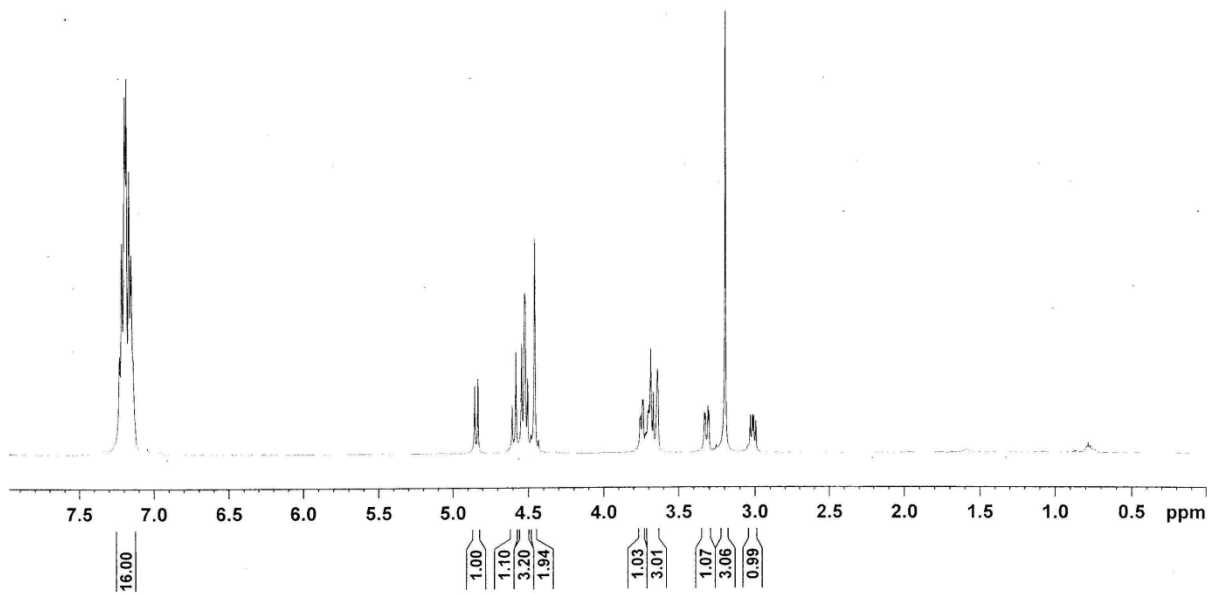
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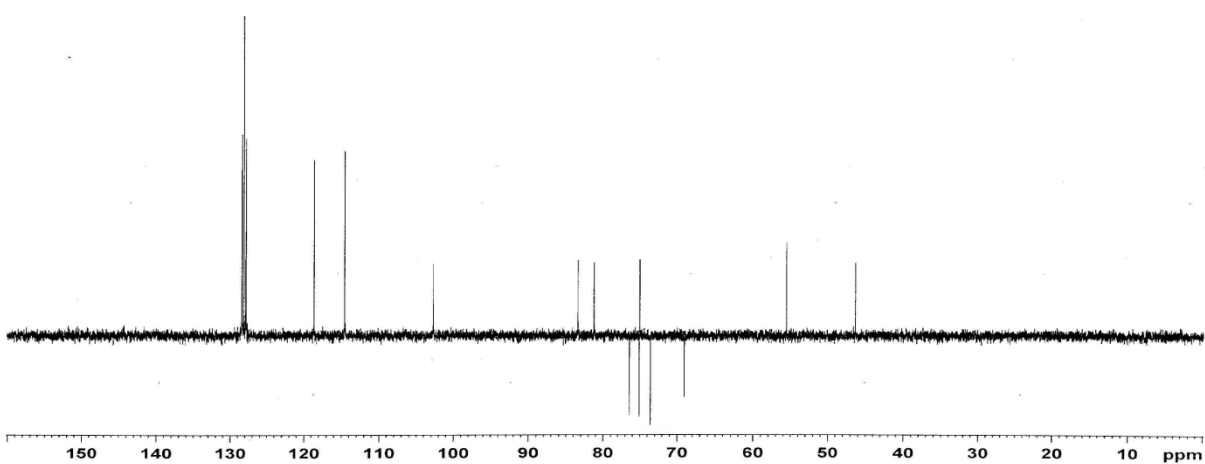
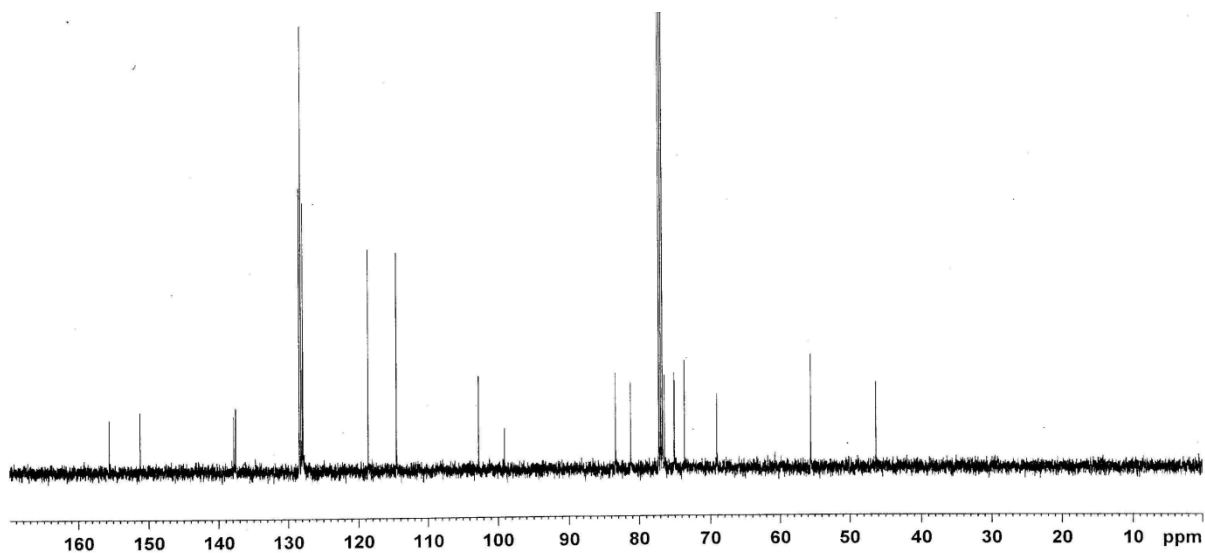
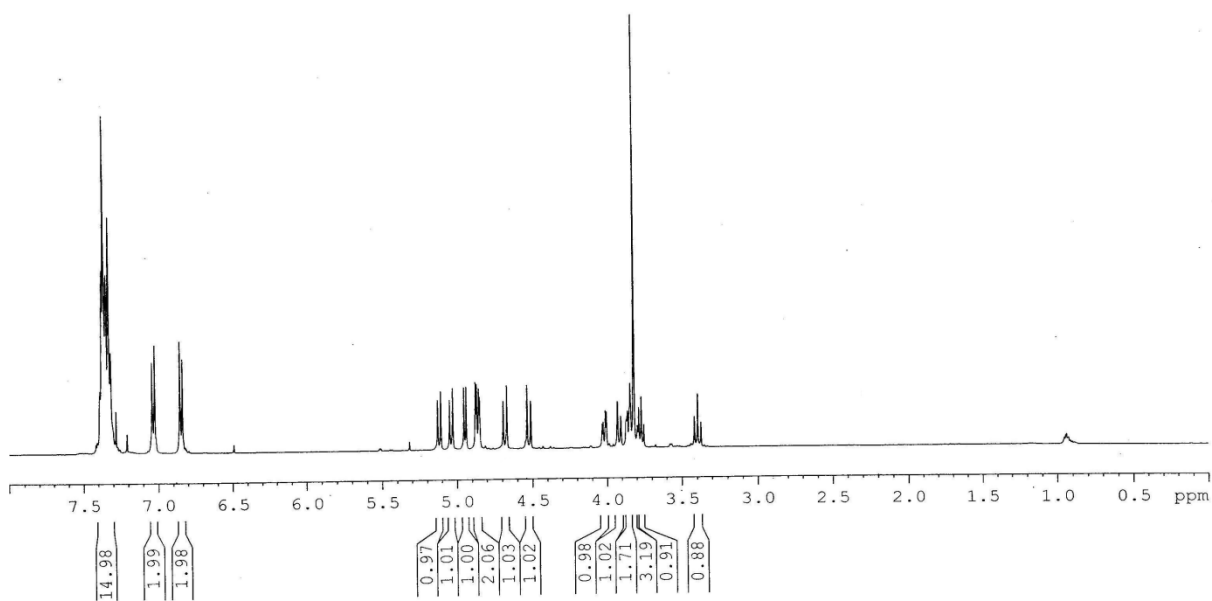
^1H , ^{13}C and DEPT 135 NMR spectra of methyl 2,3,4-tri-*O*-benzoyl-6-deoxy-6-selenocyanato- α -D-glucopyranoside (**8**) (500 MHz, CDCl_3).



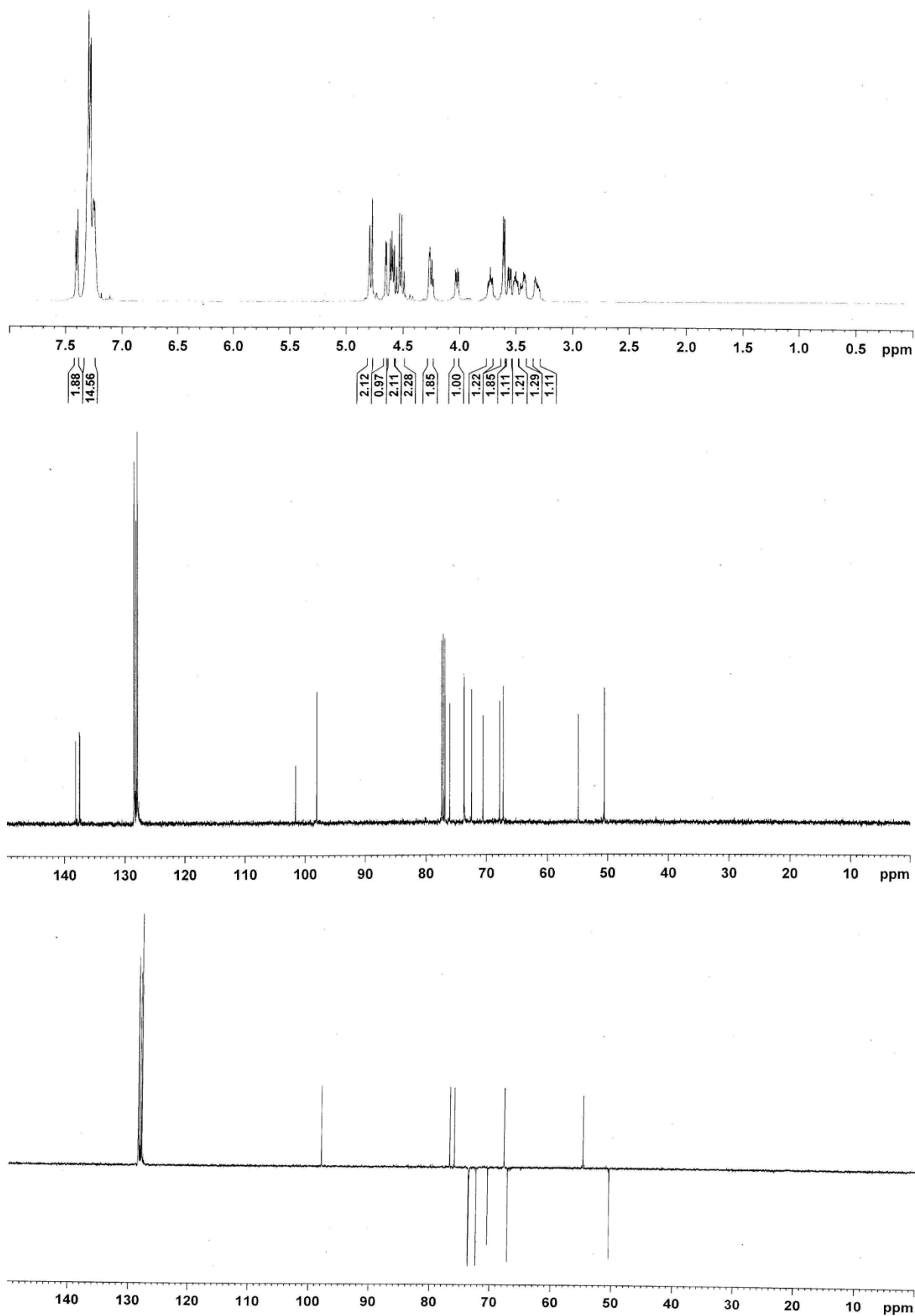
^1H , ^{13}C and DEPT 135 NMR spectra of methyl 2,3,4-tri-*O*-benzoyl-6-deoxy-6-selenocyanato- α -D-mannopyranoside (**9**) (500 MHz, CDCl_3).



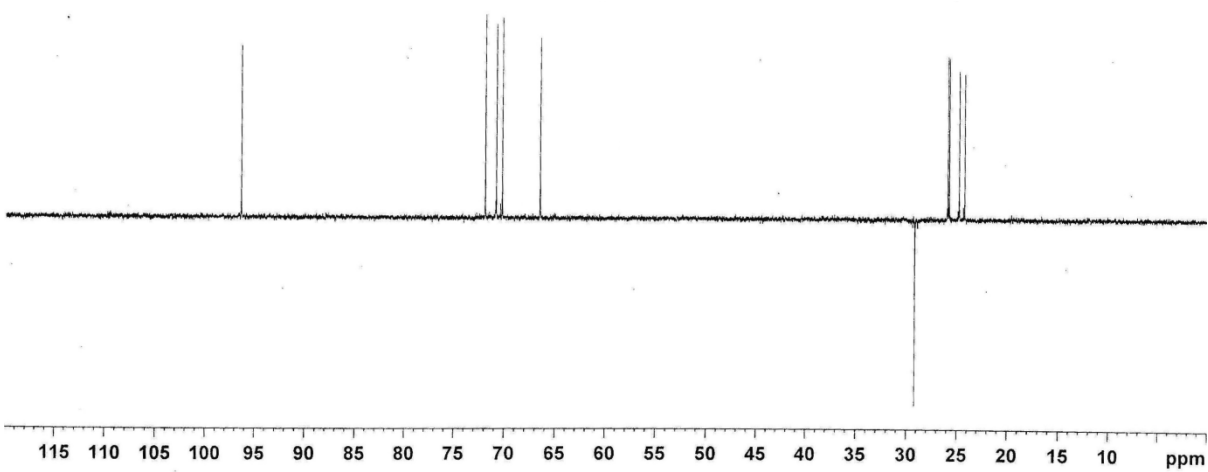
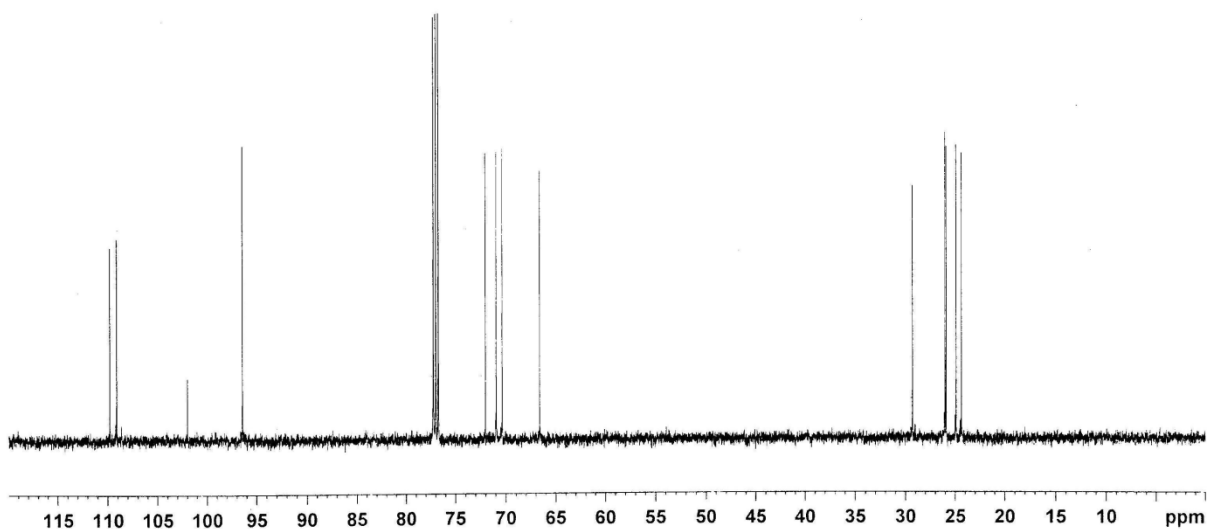
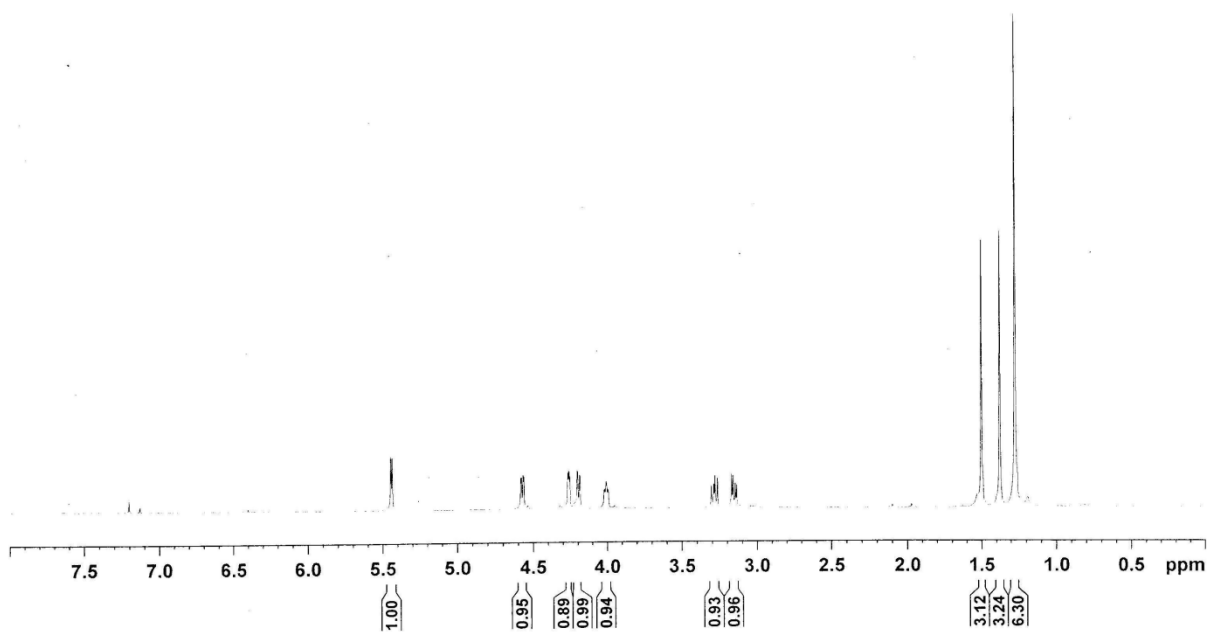
^1H , ^{13}C and DEPT 135 NMR spectra of methyl 2,3,4-tri-*O*-benzyl-6-deoxy-6-selenocyanato- α -D-mannopyranoside (**10**) (500 MHz, CDCl_3).



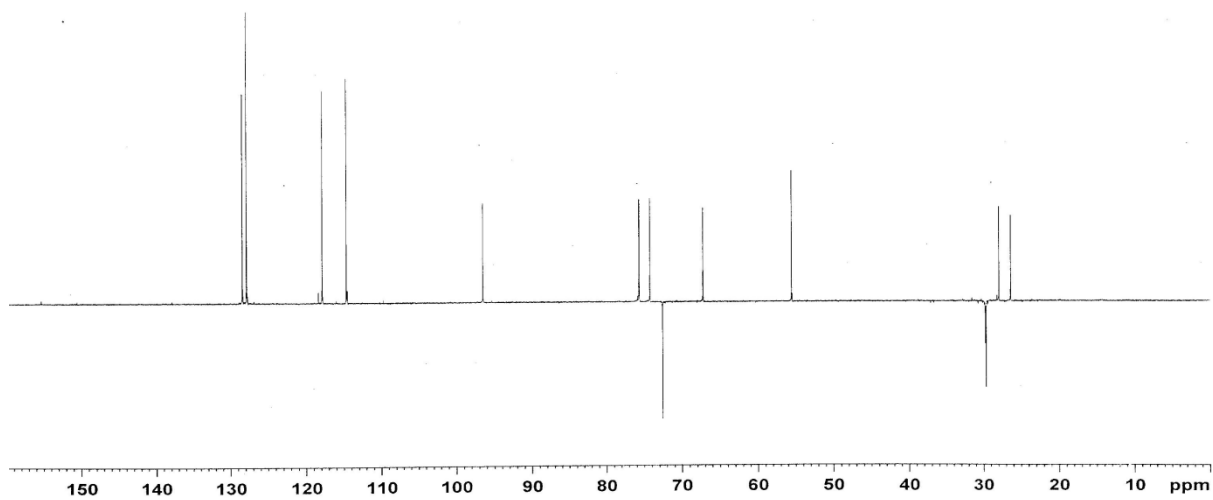
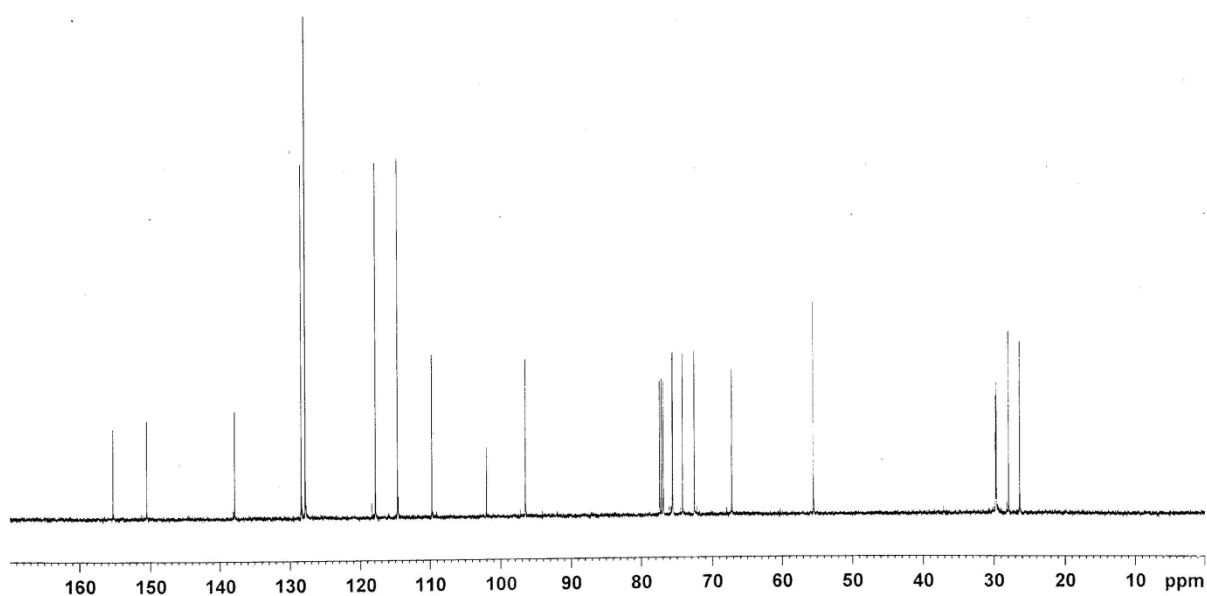
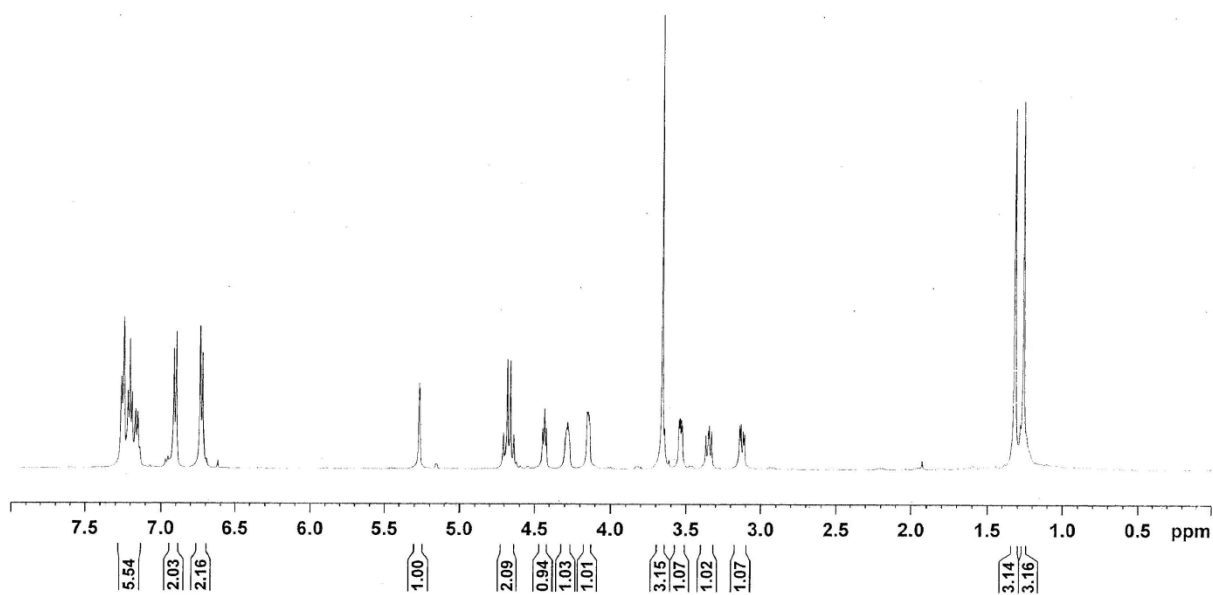
^1H , ^{13}C and DEPT 135 NMR spectra of *p*-methoxyphenyl 2,3,6-tri-*O*-benzyl-4-deoxy-4-selenocyanato- β -D-glucopyranoside (**11**) (500 MHz, CDCl_3).



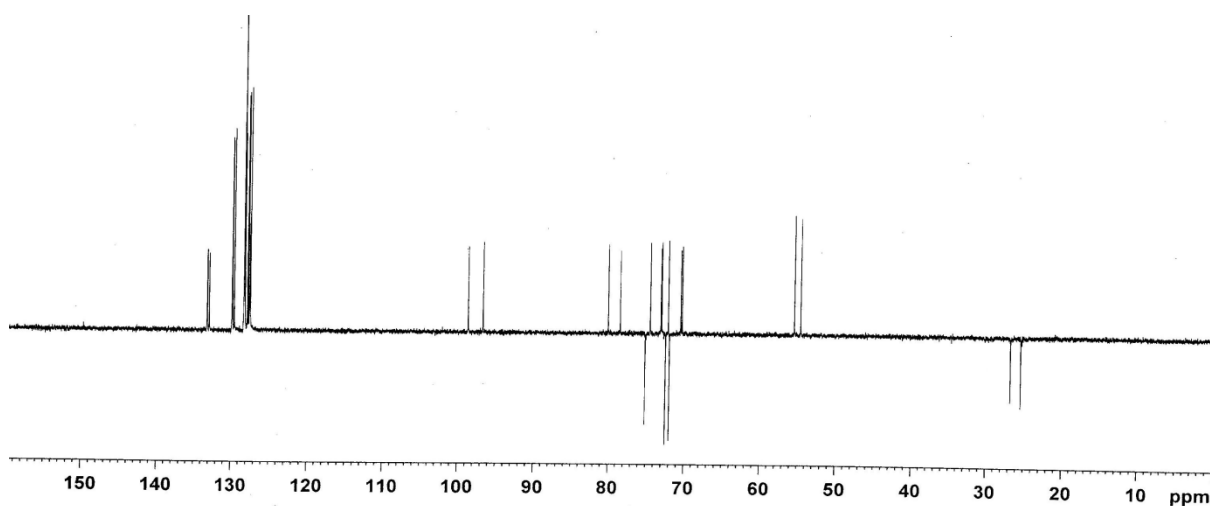
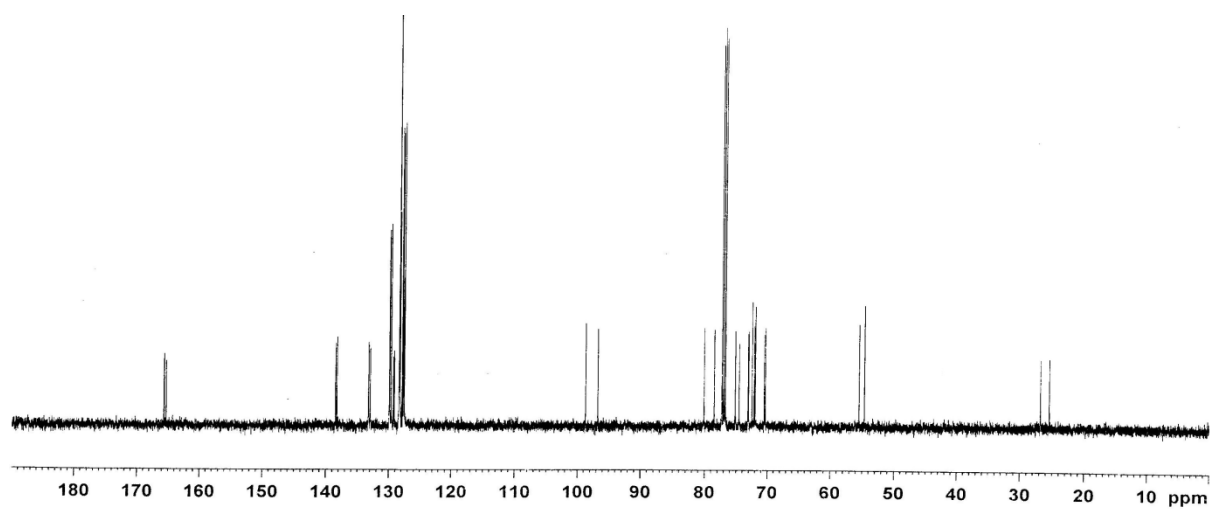
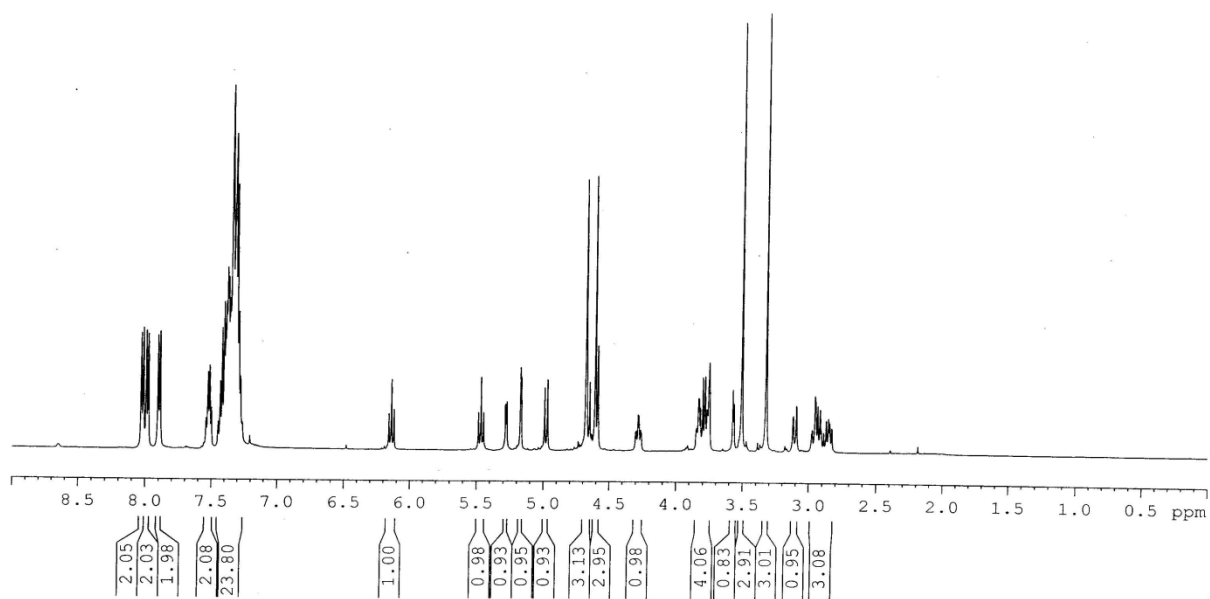
^1H , ^{13}C and DEPT 135 NMR spectra of 2-azidoethyl 2,3,6-tri-*O*-benzyl-4-deoxy-4-selenocyanato- β -D-galactopyranoside (**12**) (500 MHz, CDCl_3).



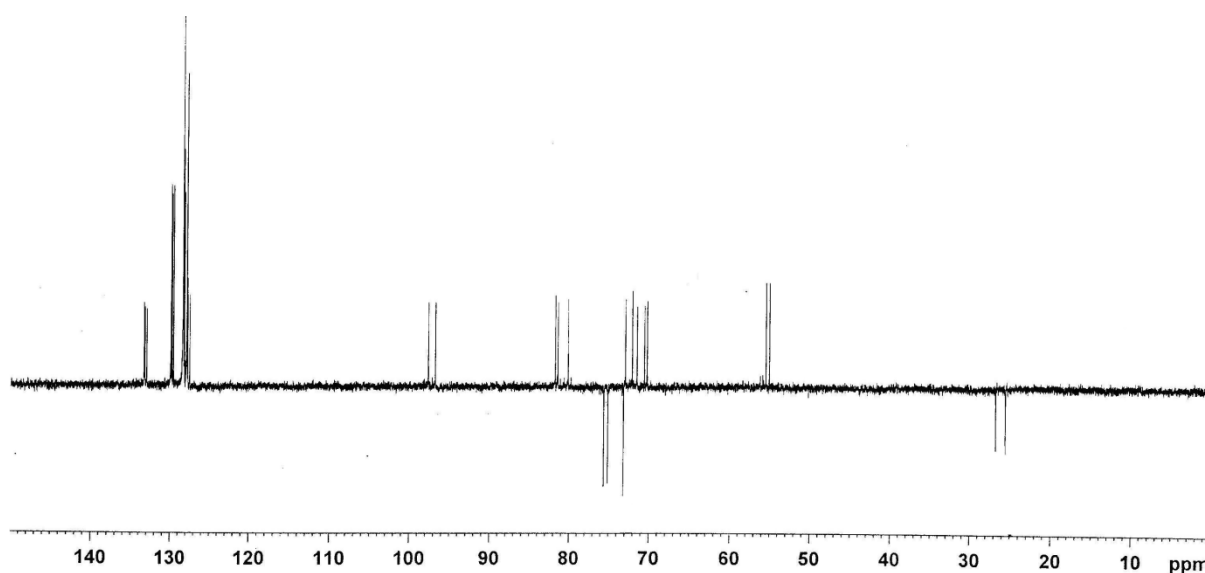
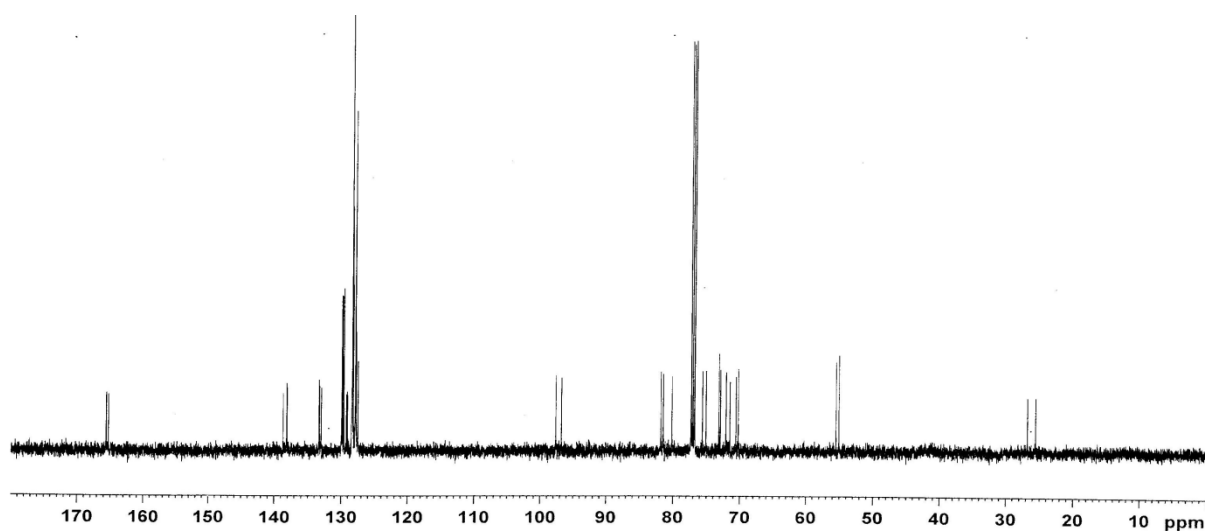
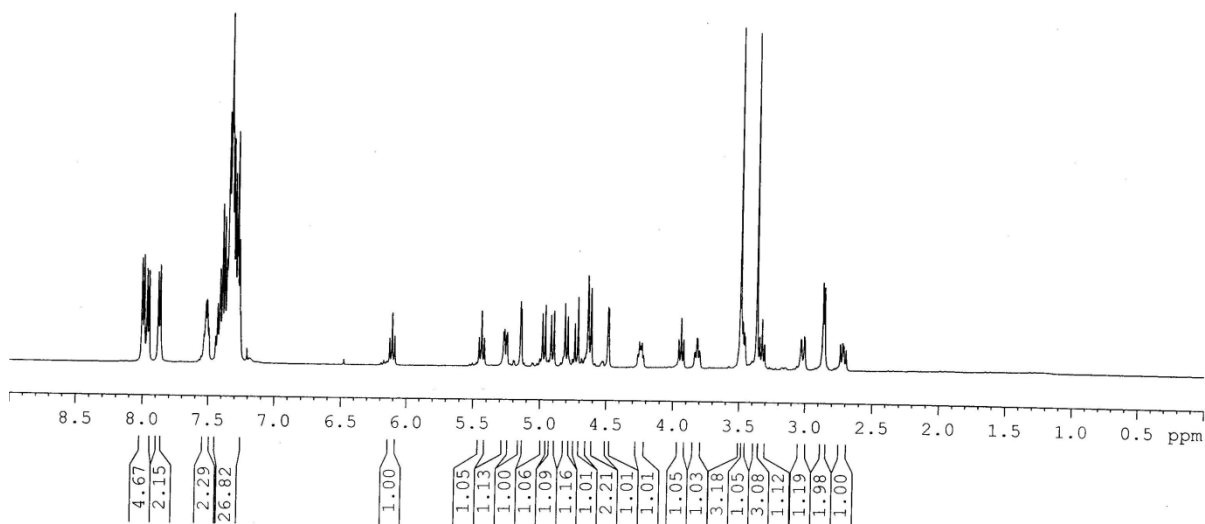
^1H , ^{13}C and DEPT 135 NMR spectra of 1,2:3,4-di-*O*-isopropylidene-6-deoxy-6-selenocyanato- α -D-galactopyranose (**13**) (500 MHz, CDCl_3).



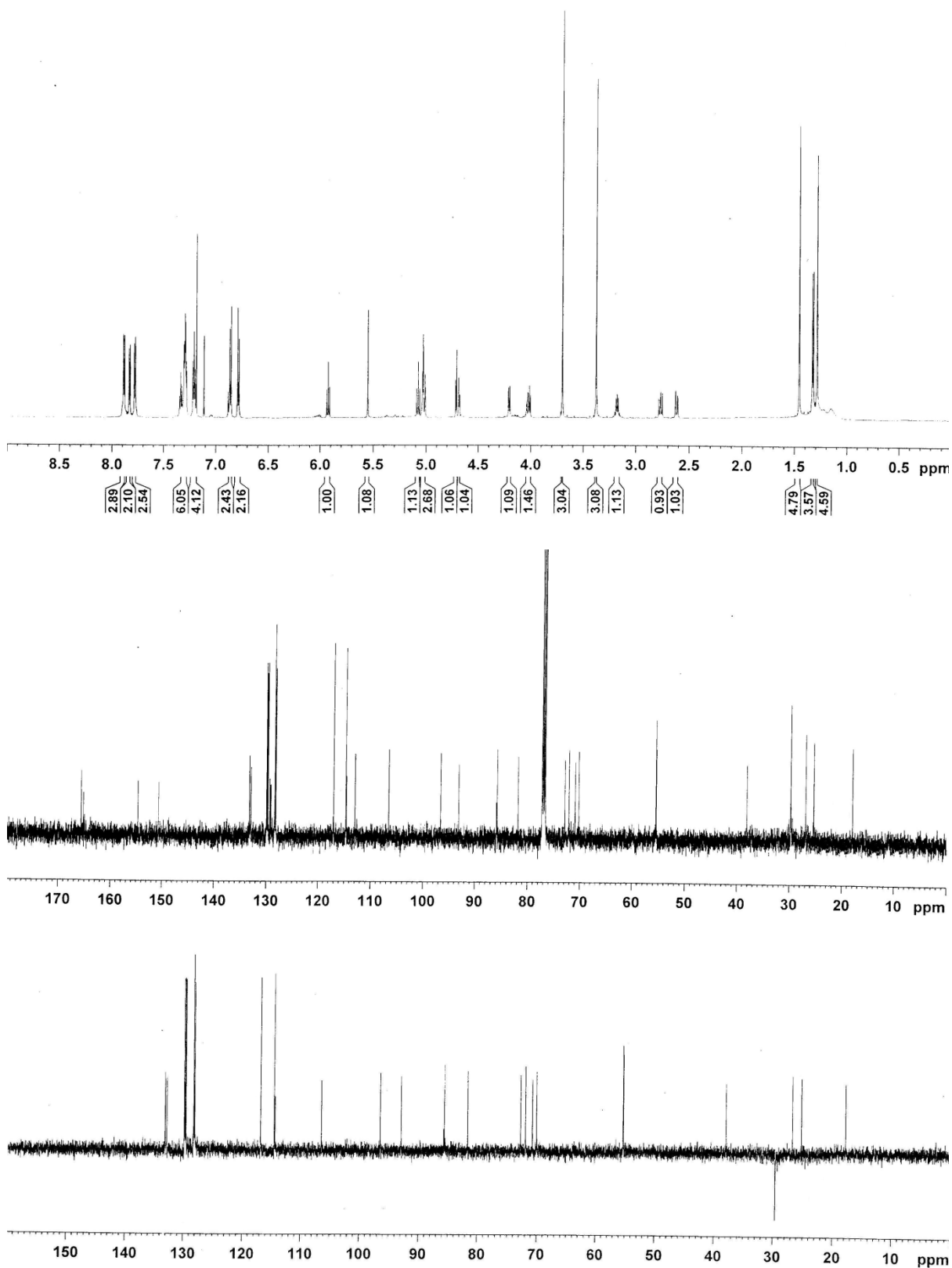
¹H, ¹³C and DEPT 135 NMR spectra of *p*-methoxyphenyl 2-*O*-benzyl-3,4-*O*-isopropylidene-6-deoxy-6-selenocyanato- α -D-galactopyranoside (**14**) (500 MHz, CDCl₃).



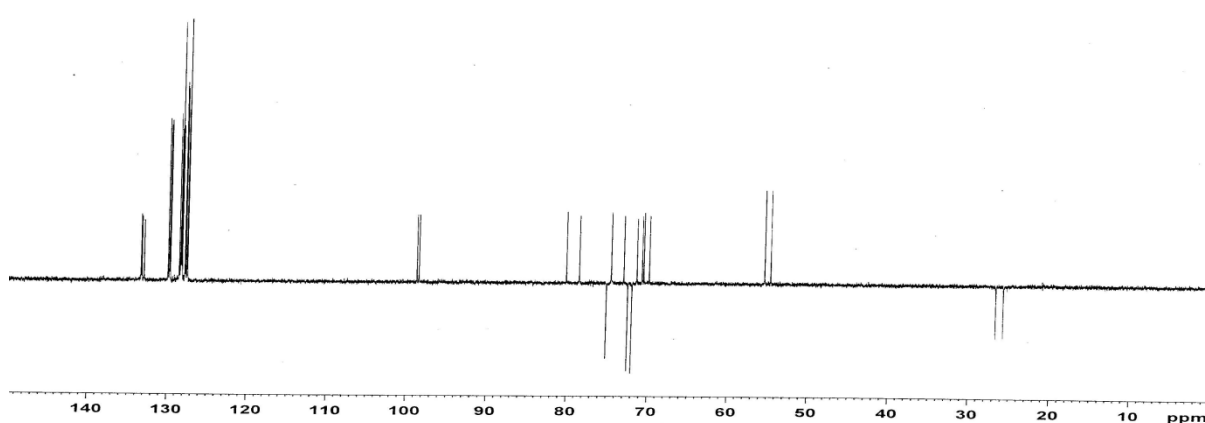
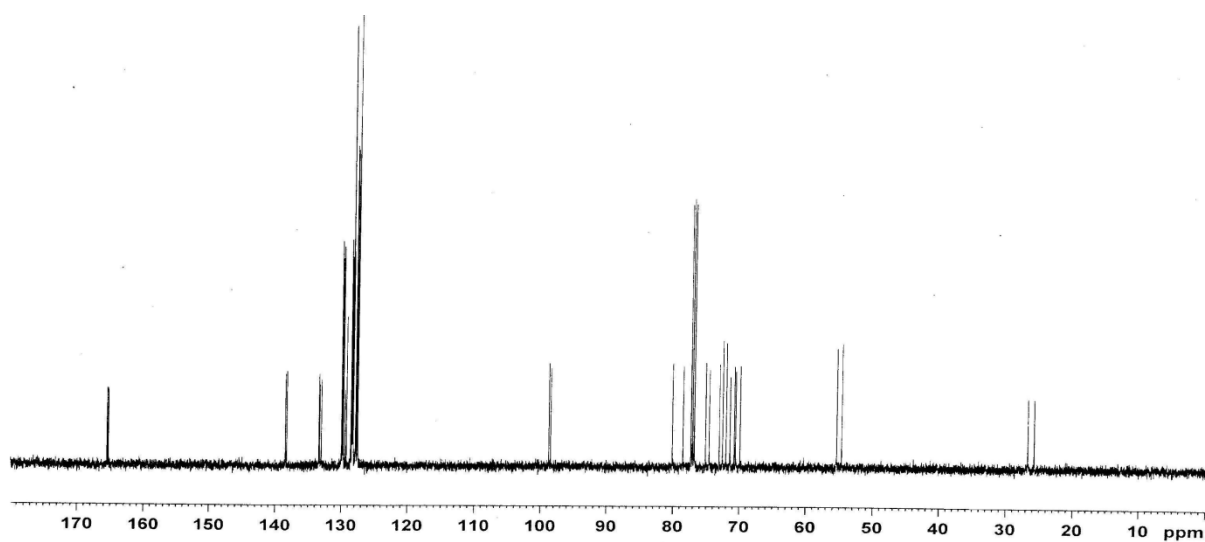
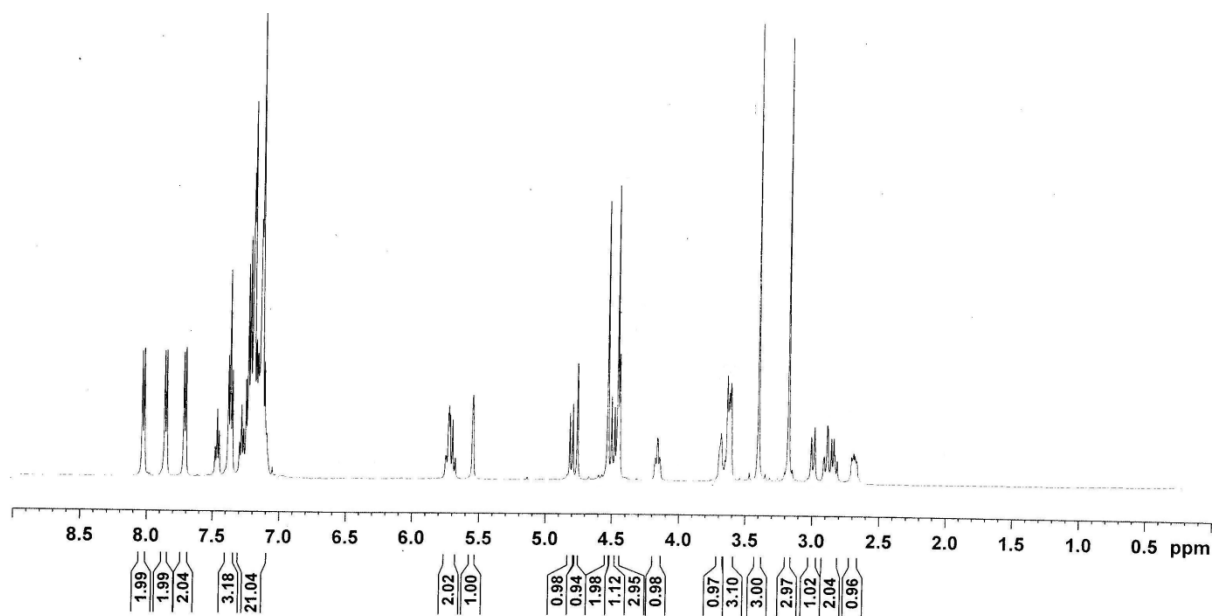
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl) selenide (**18**) (500 MHz, CDCl_3).



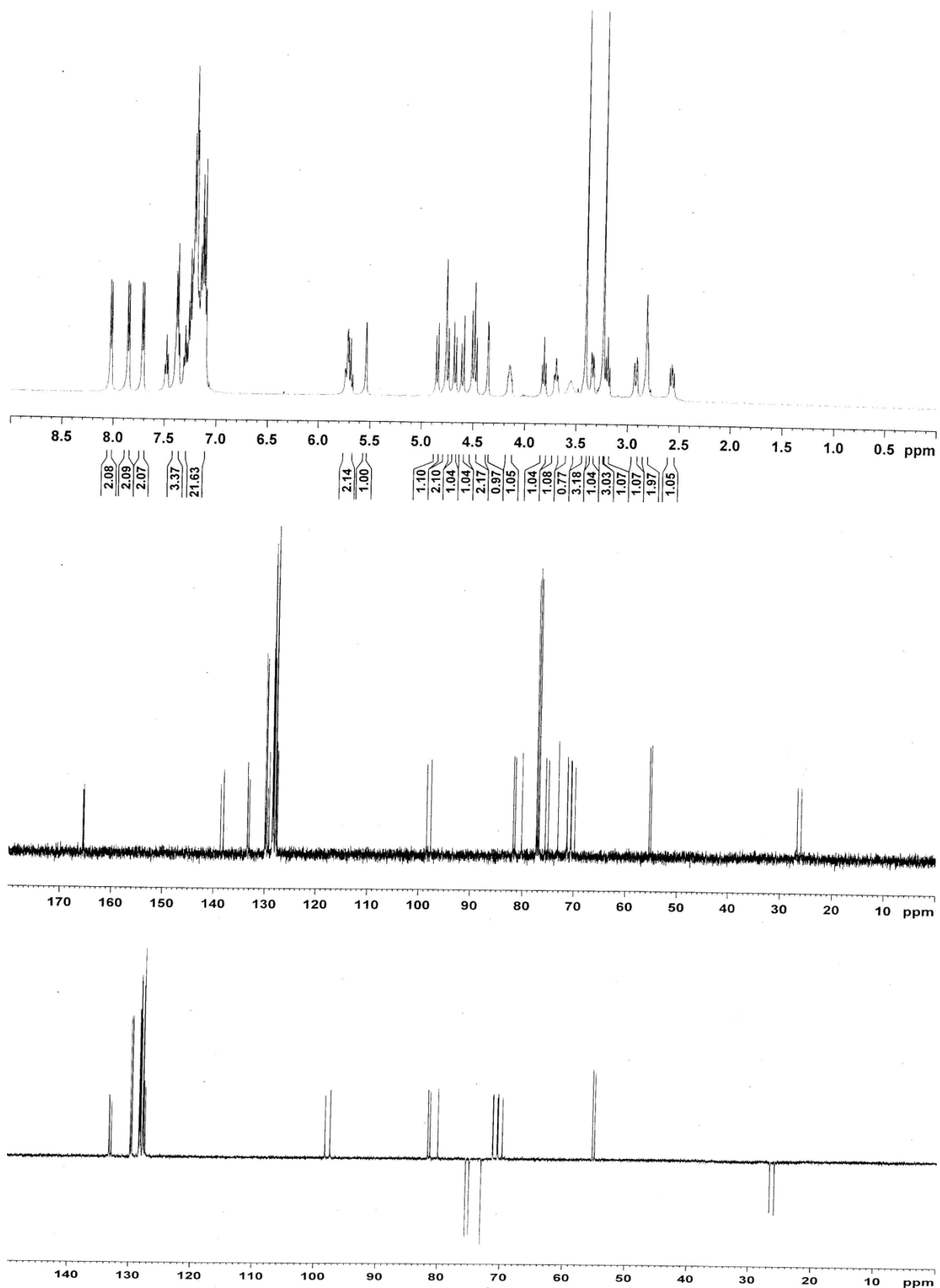
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl) selenide (**19**) (500 MHz, CDCl_3).



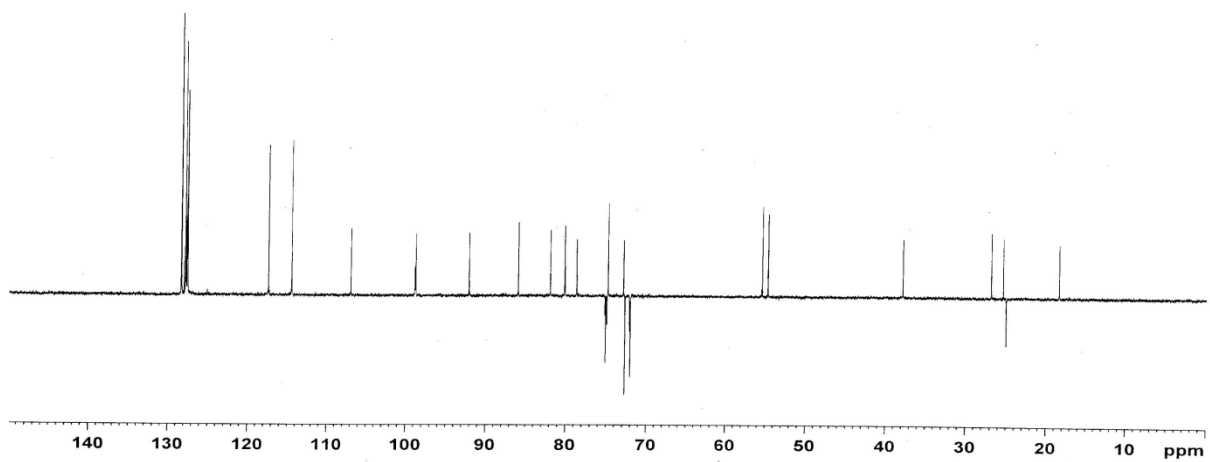
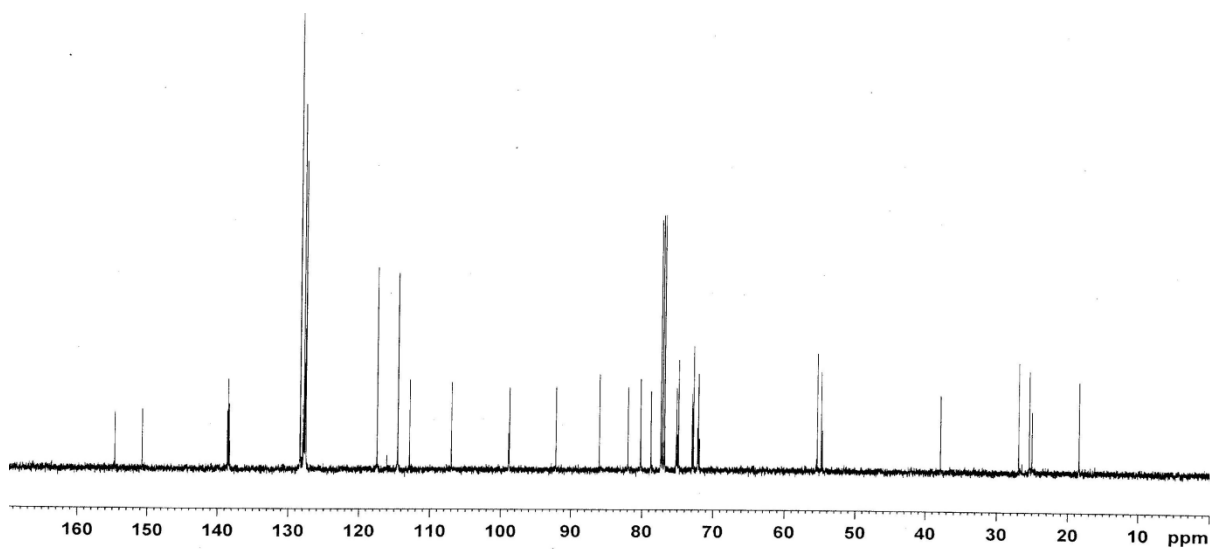
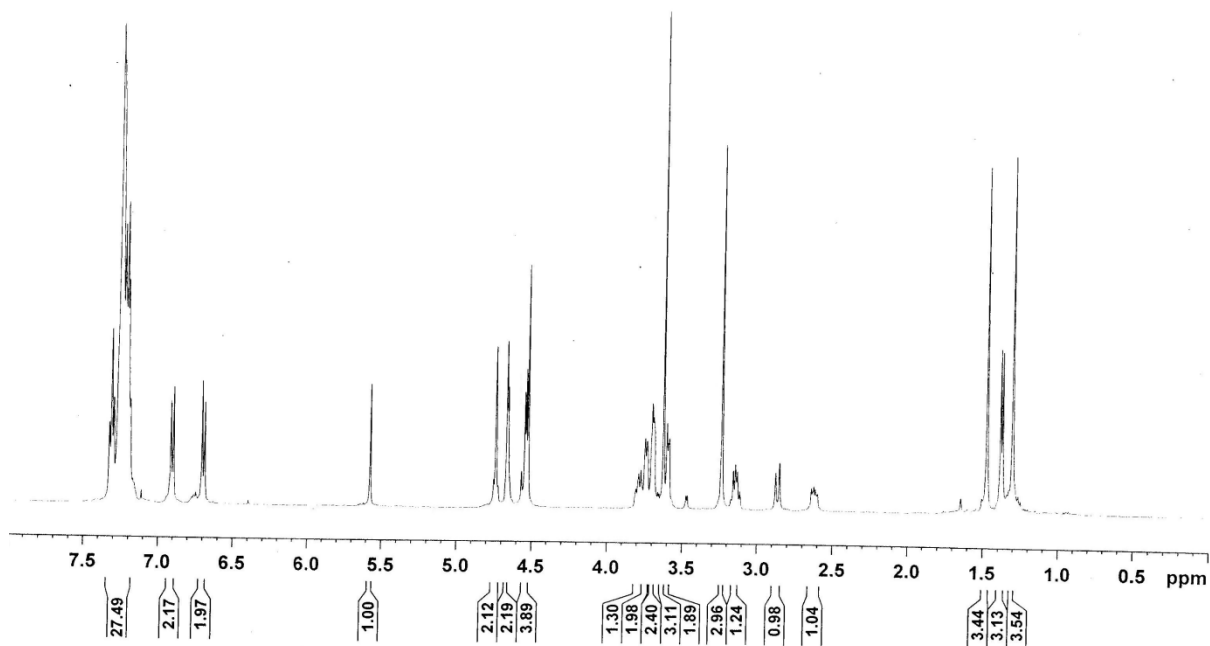
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl)-(p-methoxyphenyl 2,3-*O*-isopropylidene-4,6-di-deoxy- α -L-talopyranosid-4-yl) selenide (**20**) (500 MHz, CDCl_3).



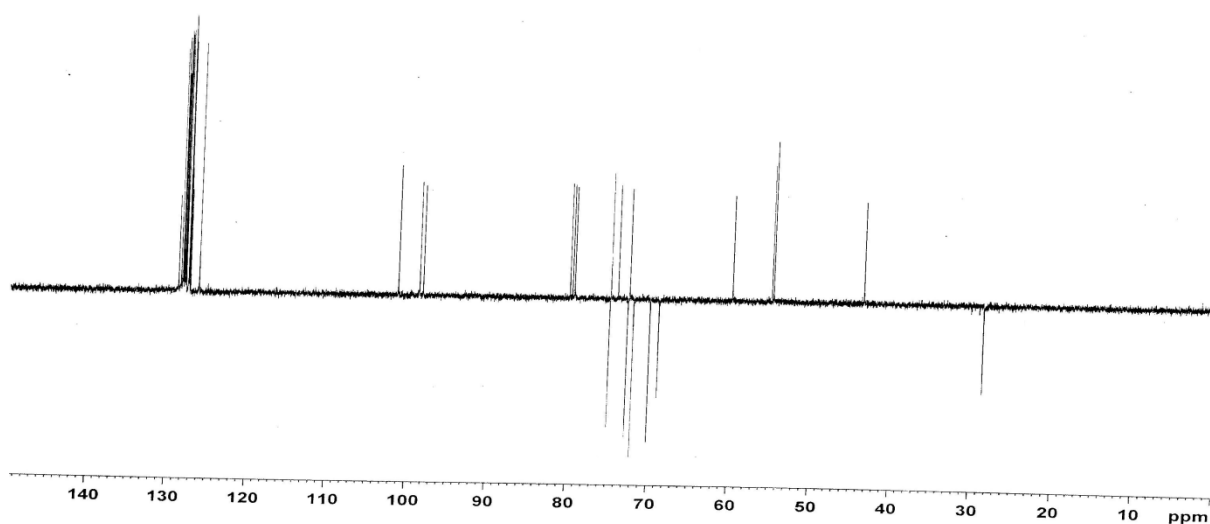
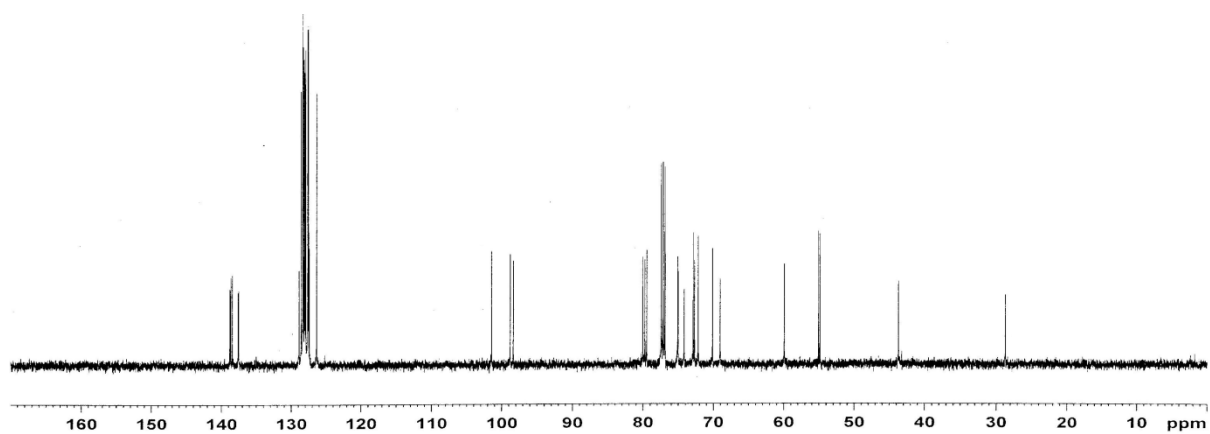
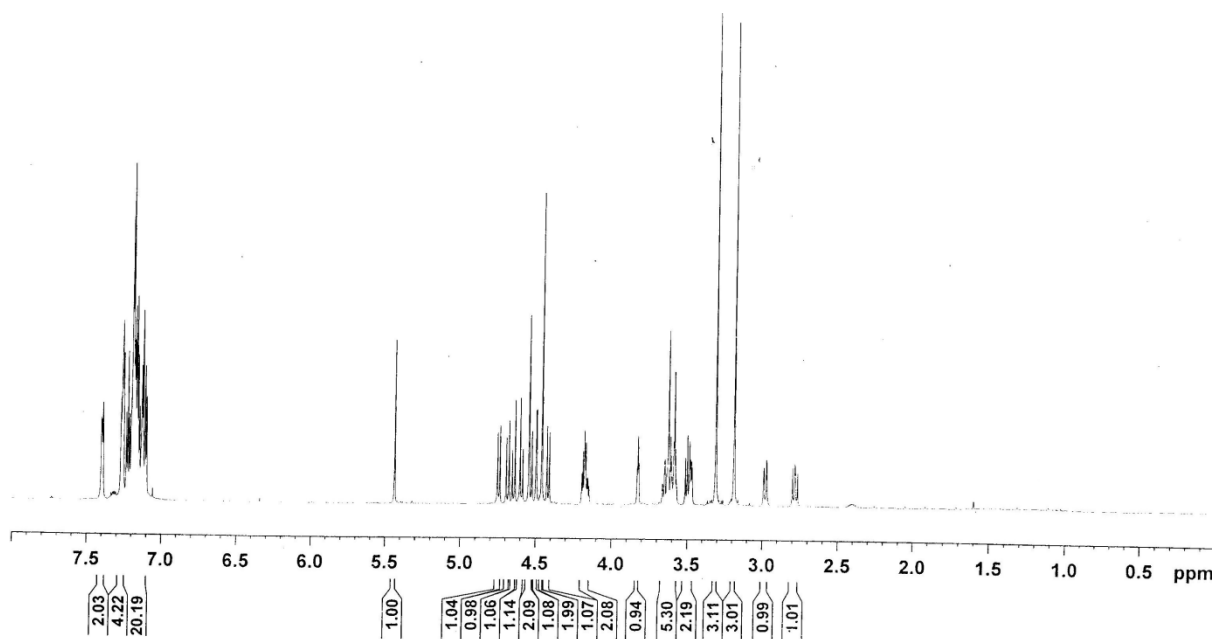
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-mannopyranosid-6-yl)selenide (**21**) (500 MHz, CDCl_3).



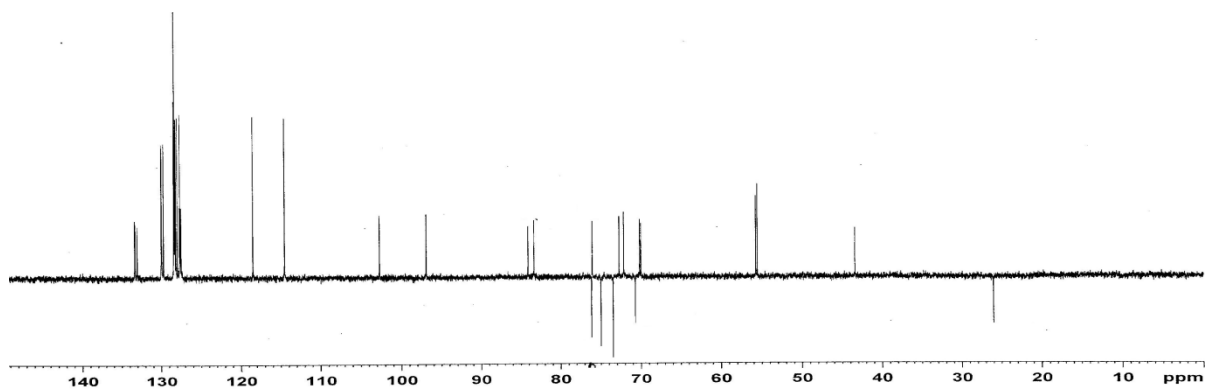
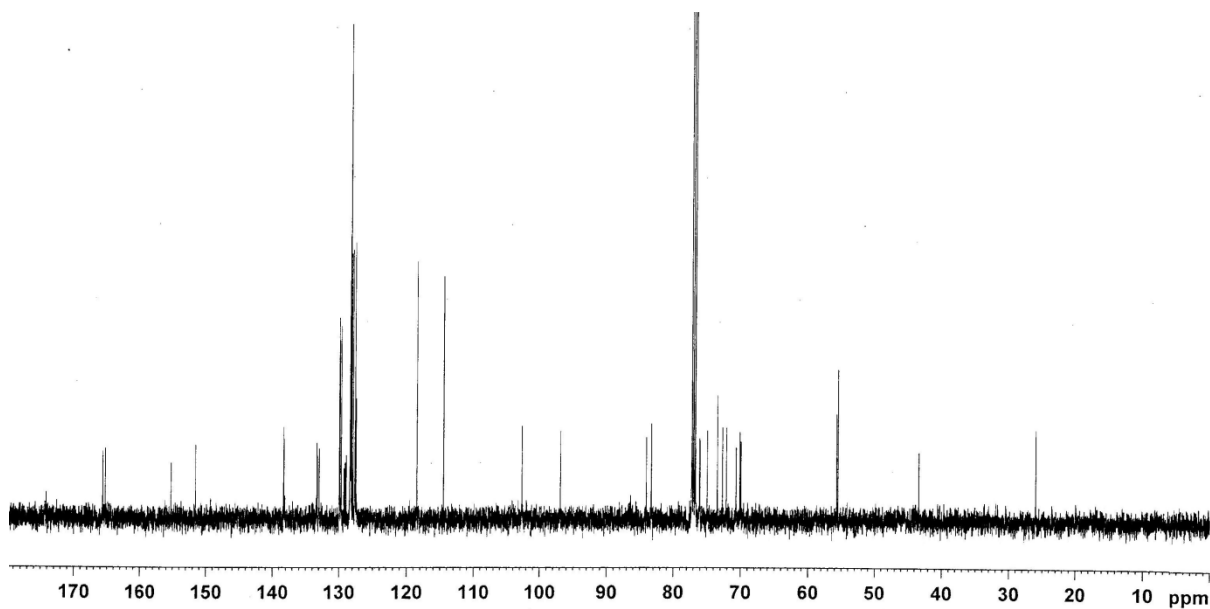
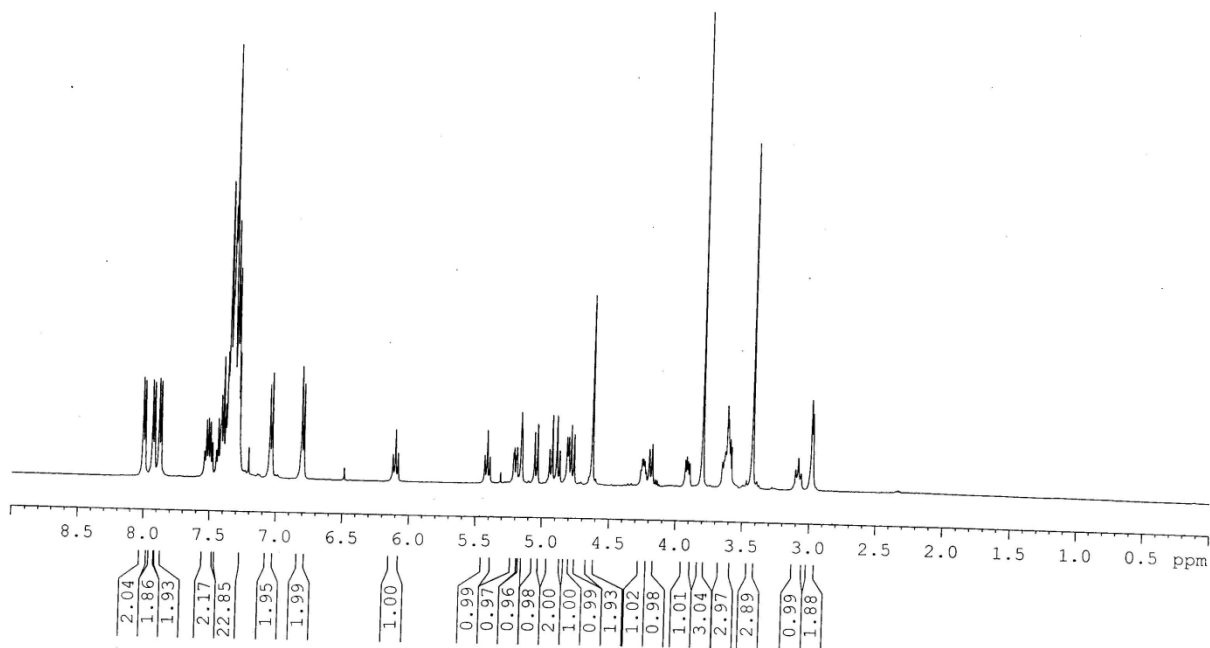
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-glucopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-mannopyranosid-6-yl) selenide (**22**) (500 MHz, CDCl_3).



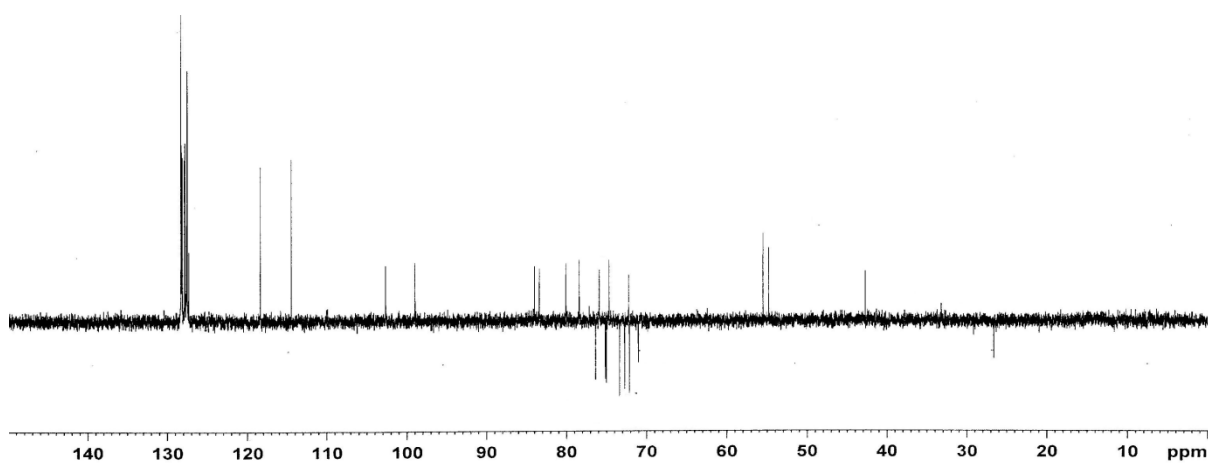
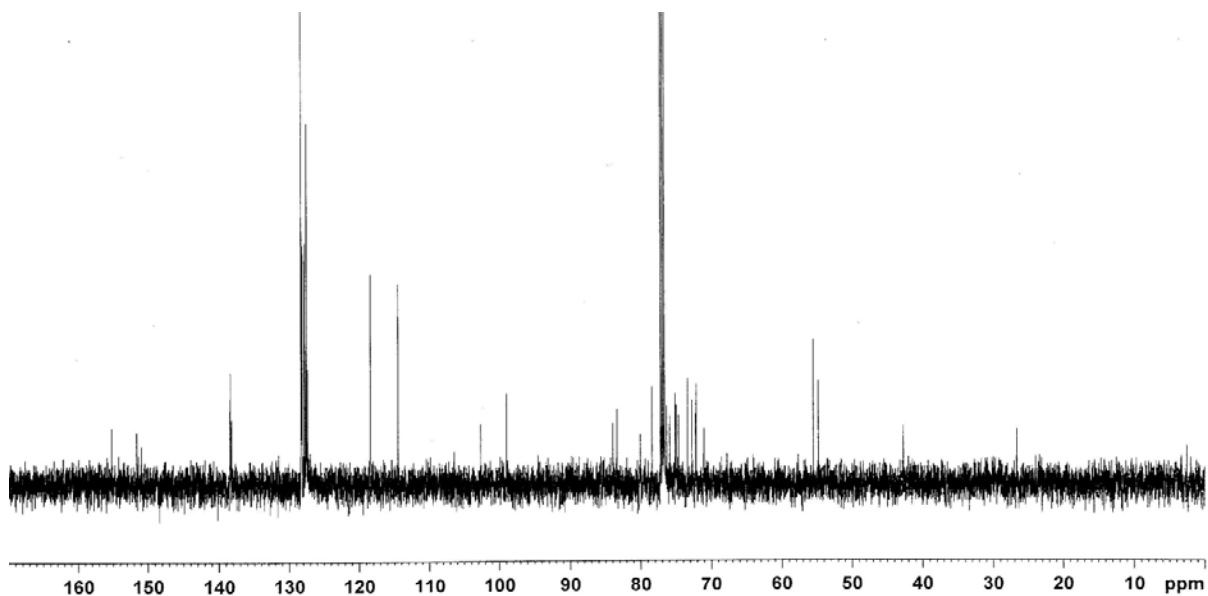
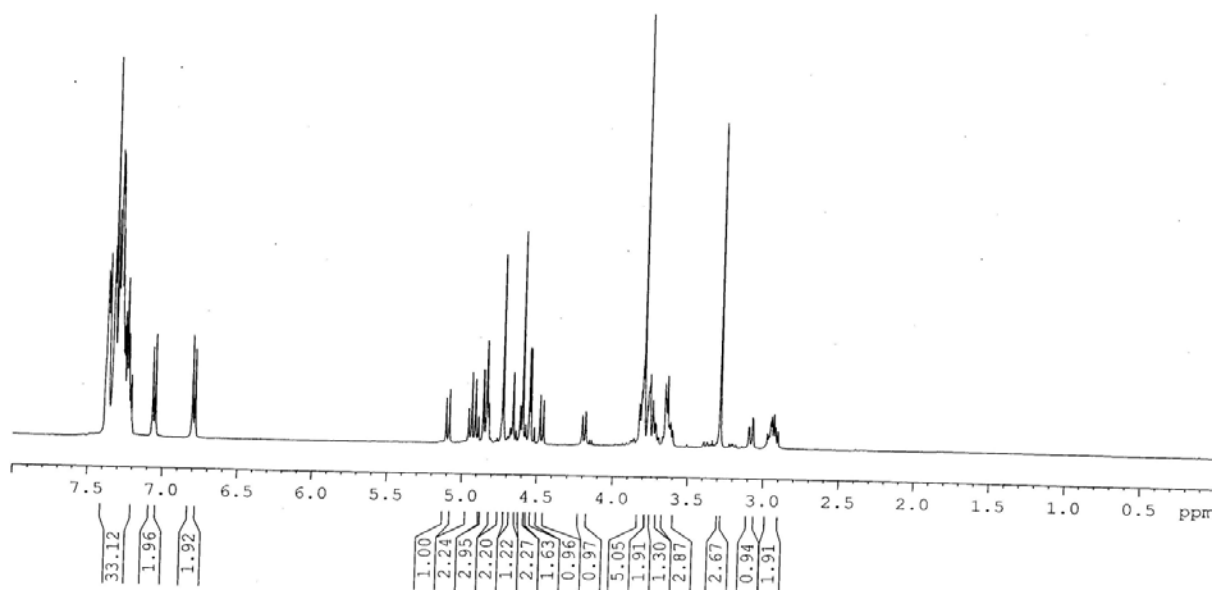
¹H, ¹³C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl)-(*p*-methoxyphenyl 2,3-*O*-isopropylidene-4,6-di-deoxy- α -L-talopyranosid-4-yl) selenide (**23**) (500 MHz, CDCl₃).



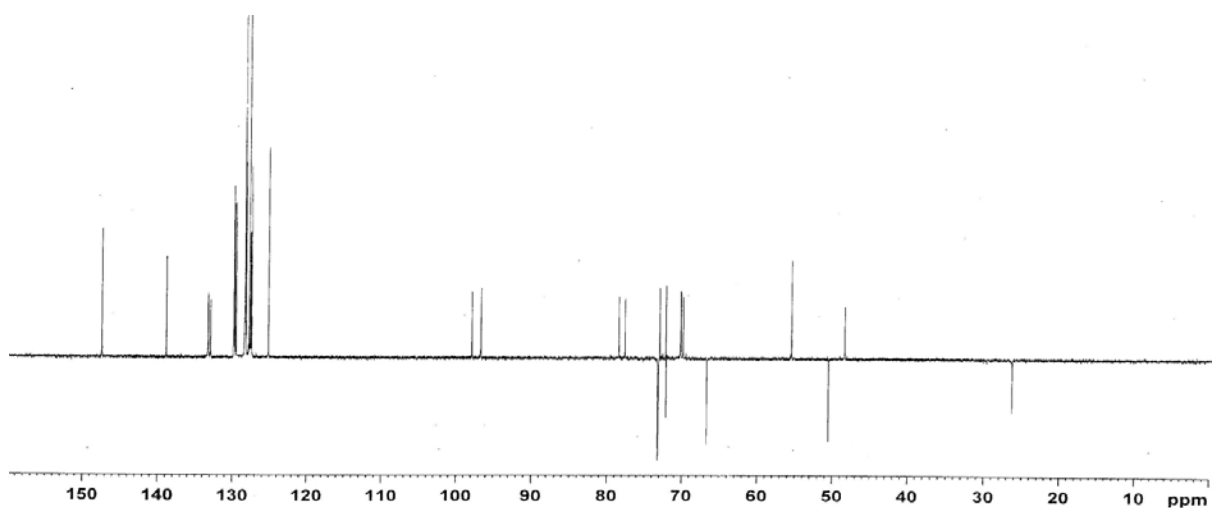
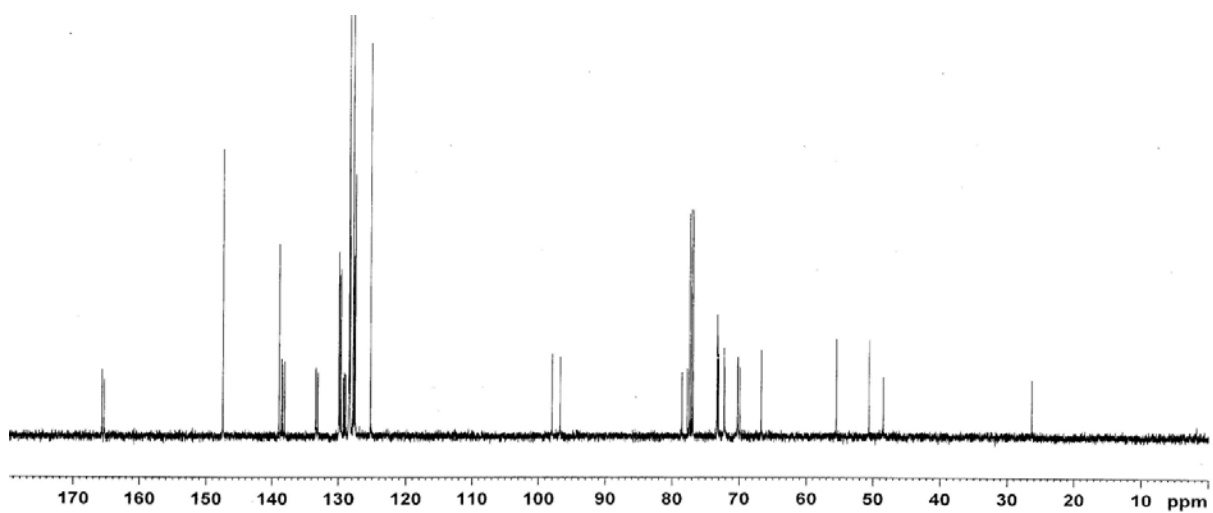
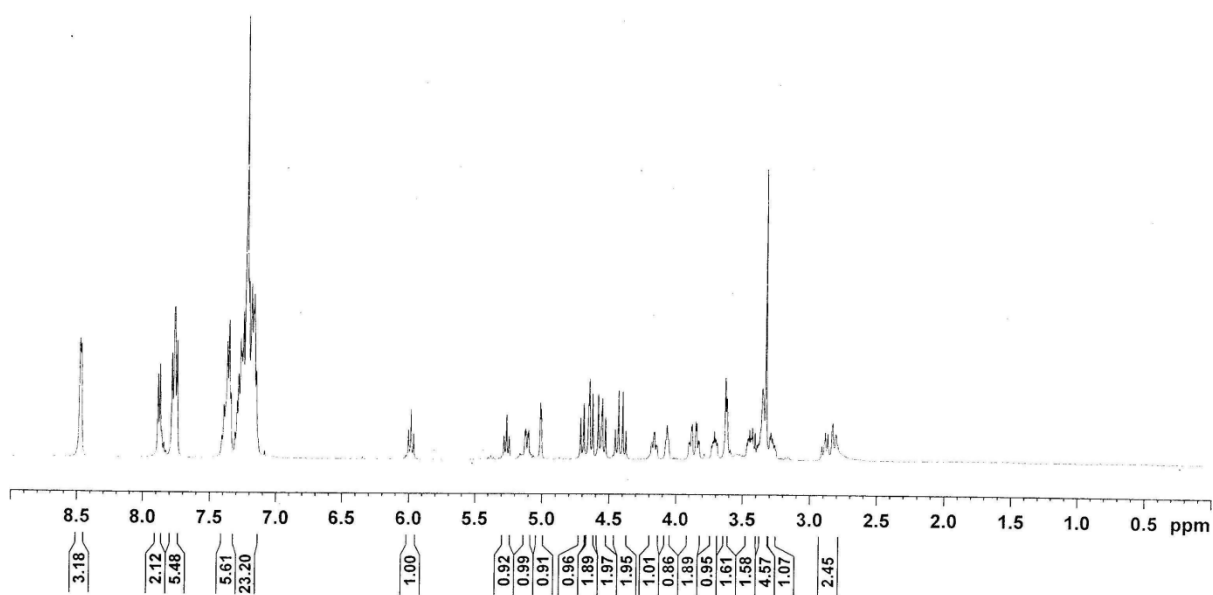
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl)-(methyl 2-*O*-benzyl-4,6-*O*-benzylidene-3-deoxy- α -D-allopyranosid-3-yl) selenide (**24**) (500 MHz, CDCl_3).



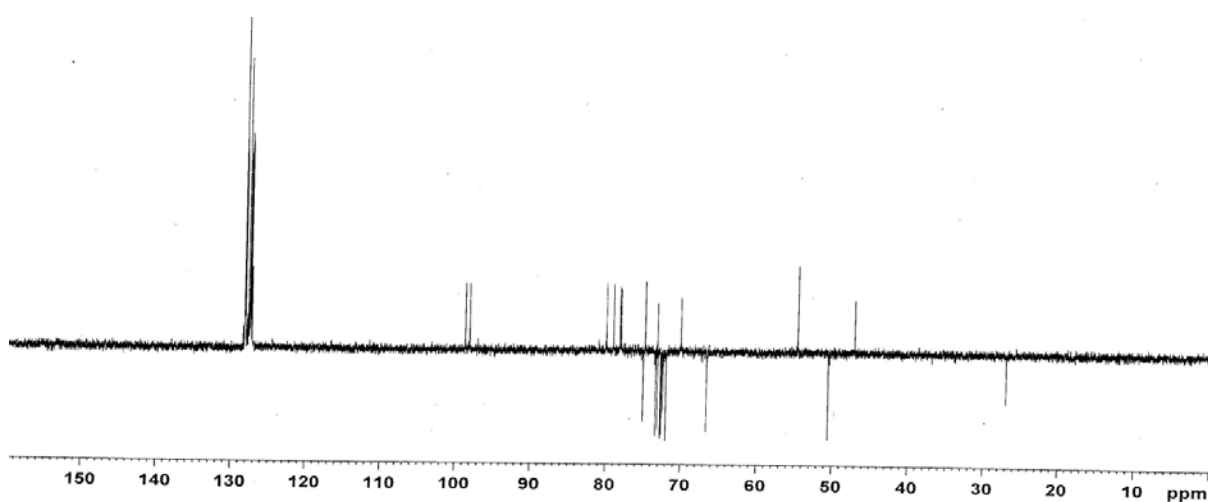
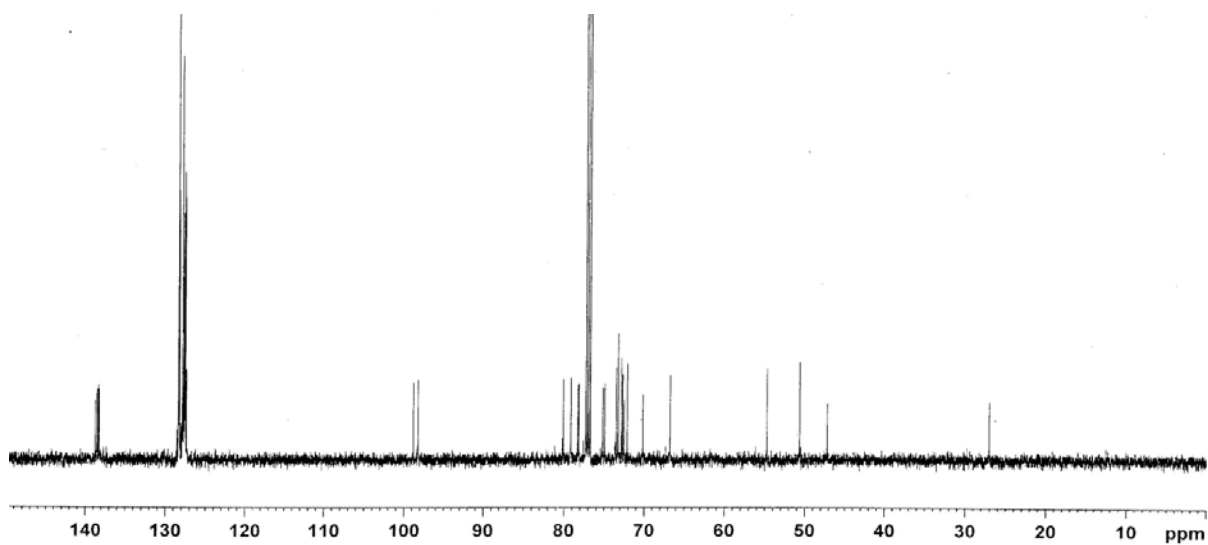
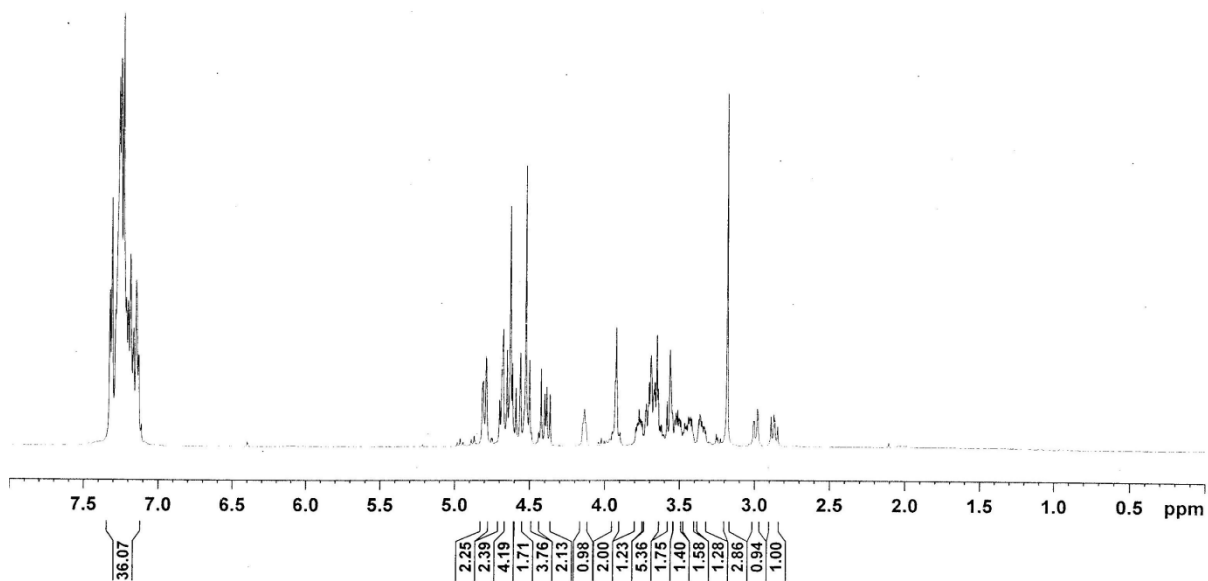
¹H, ¹³C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl)-(*p*-methoxyphenyl 2,3,6-tri-*O*-benzyl-4-deoxy- β -D-glucopyranosid-4-yl) selenide (**25**) (500 MHz, CDCl₃).



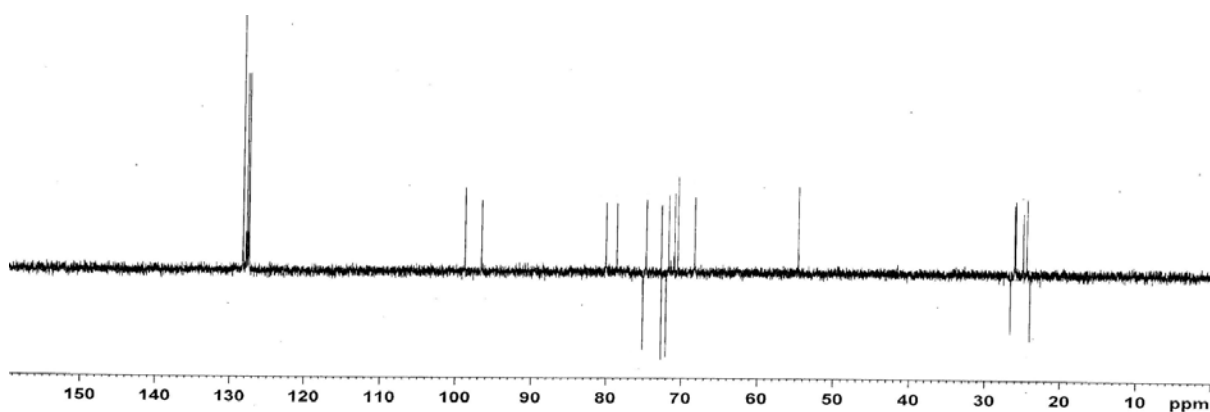
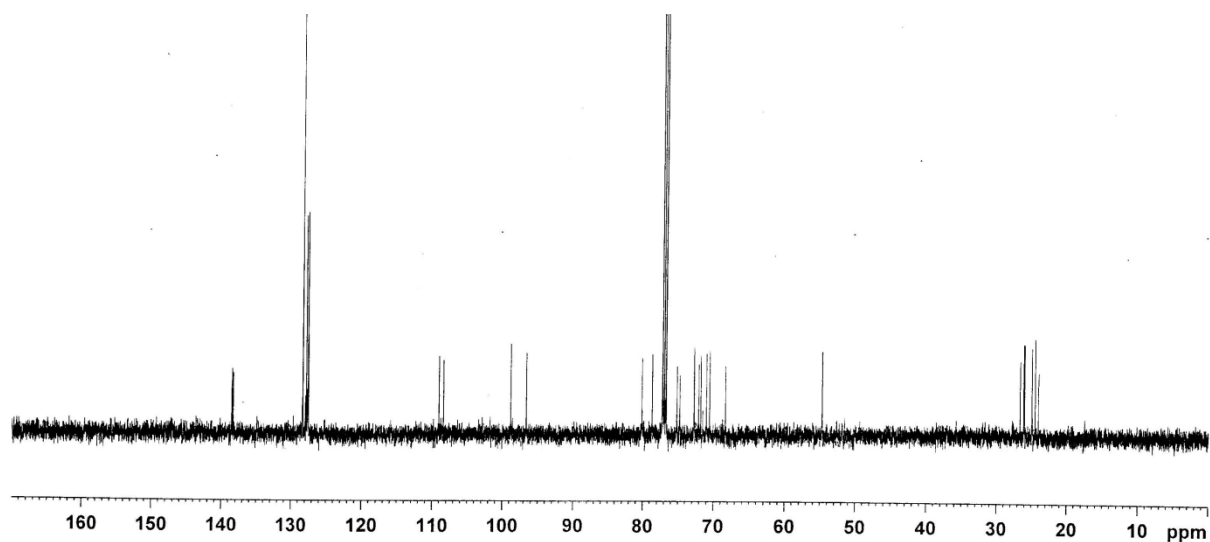
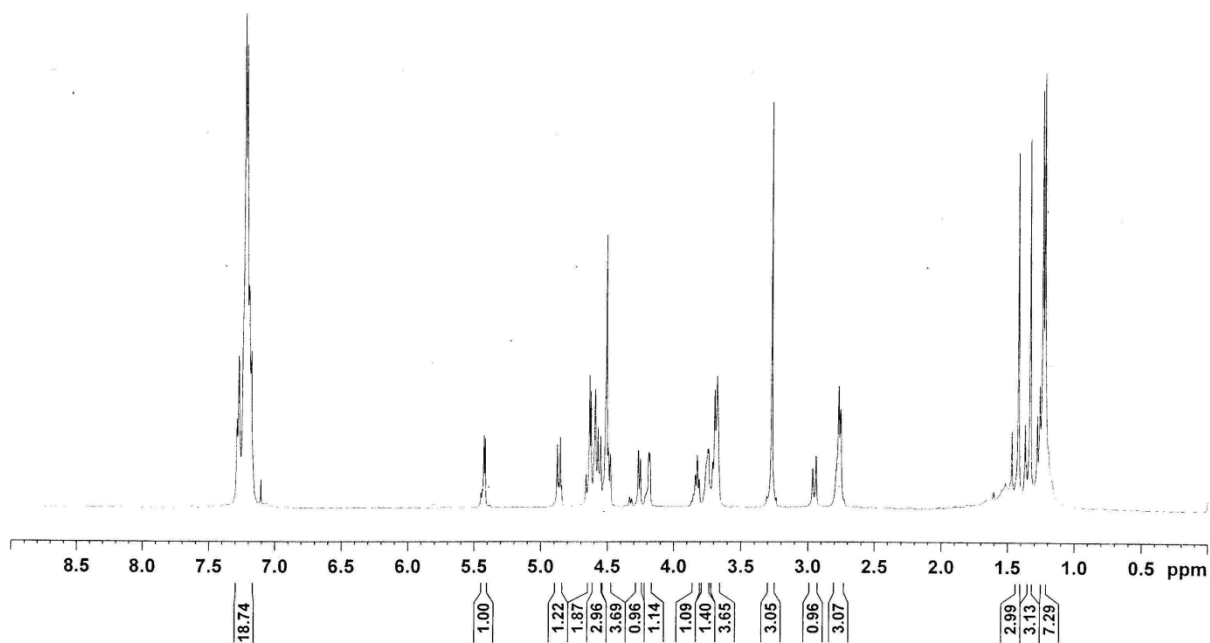
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl)-(*p*-methoxyphenyl 2,3,6-tri-*O*-benzyl-4-deoxy- β -D-glucopyranosid-4-yl) selenide (**26**) (500 MHz, CDCl_3).



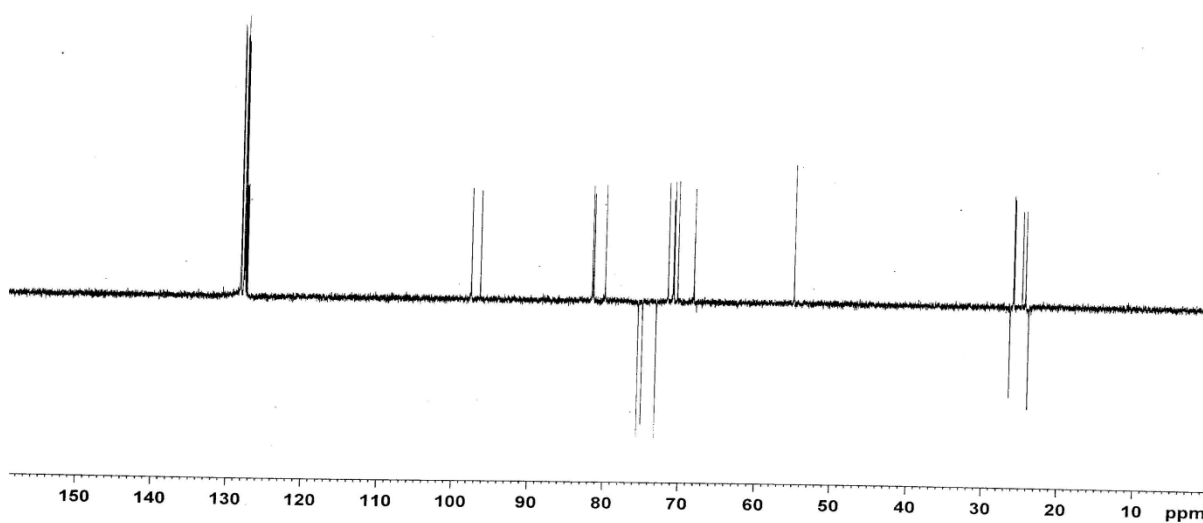
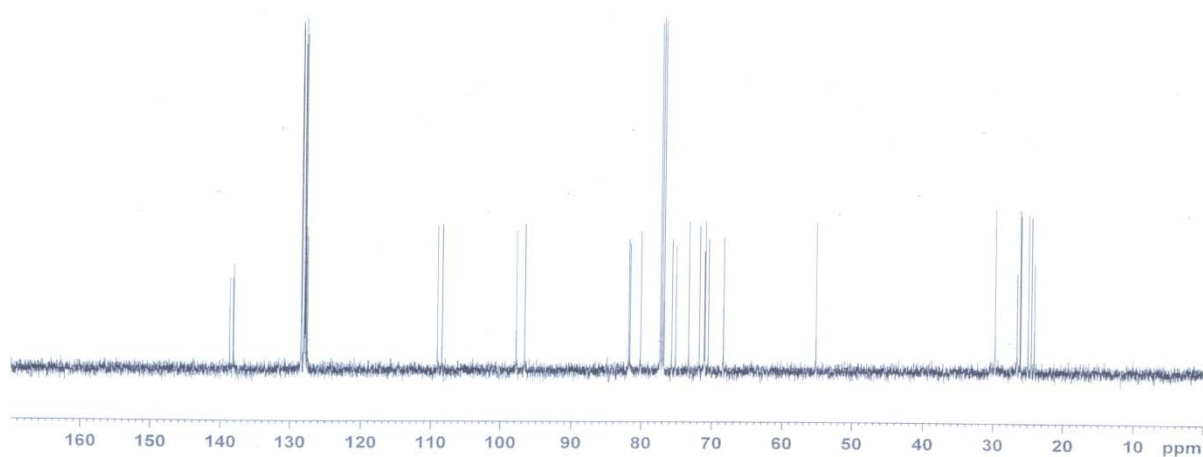
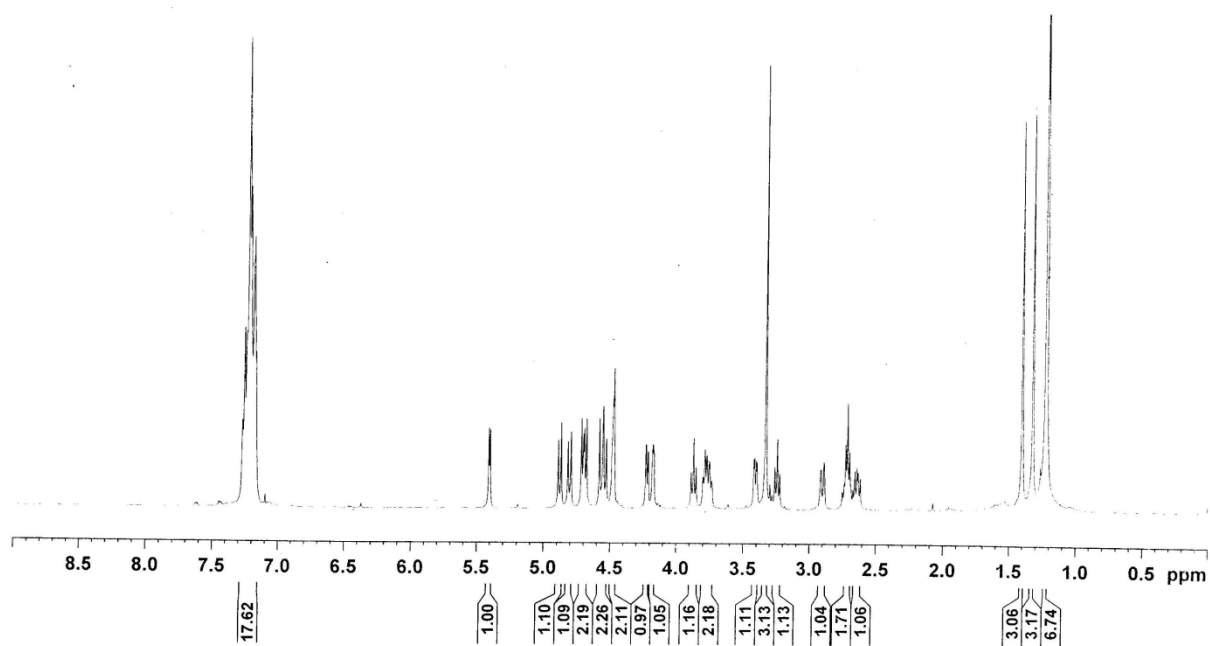
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzoyl-6-deoxy- α -D-glucopyranosid-6-yl)-(2-azidoethyl 2,3,6-tri-*O*-benzyl-4-deoxy- α -D-galactopyranosid-4-yl) selenide (**27**) (500 MHz, CDCl_3).



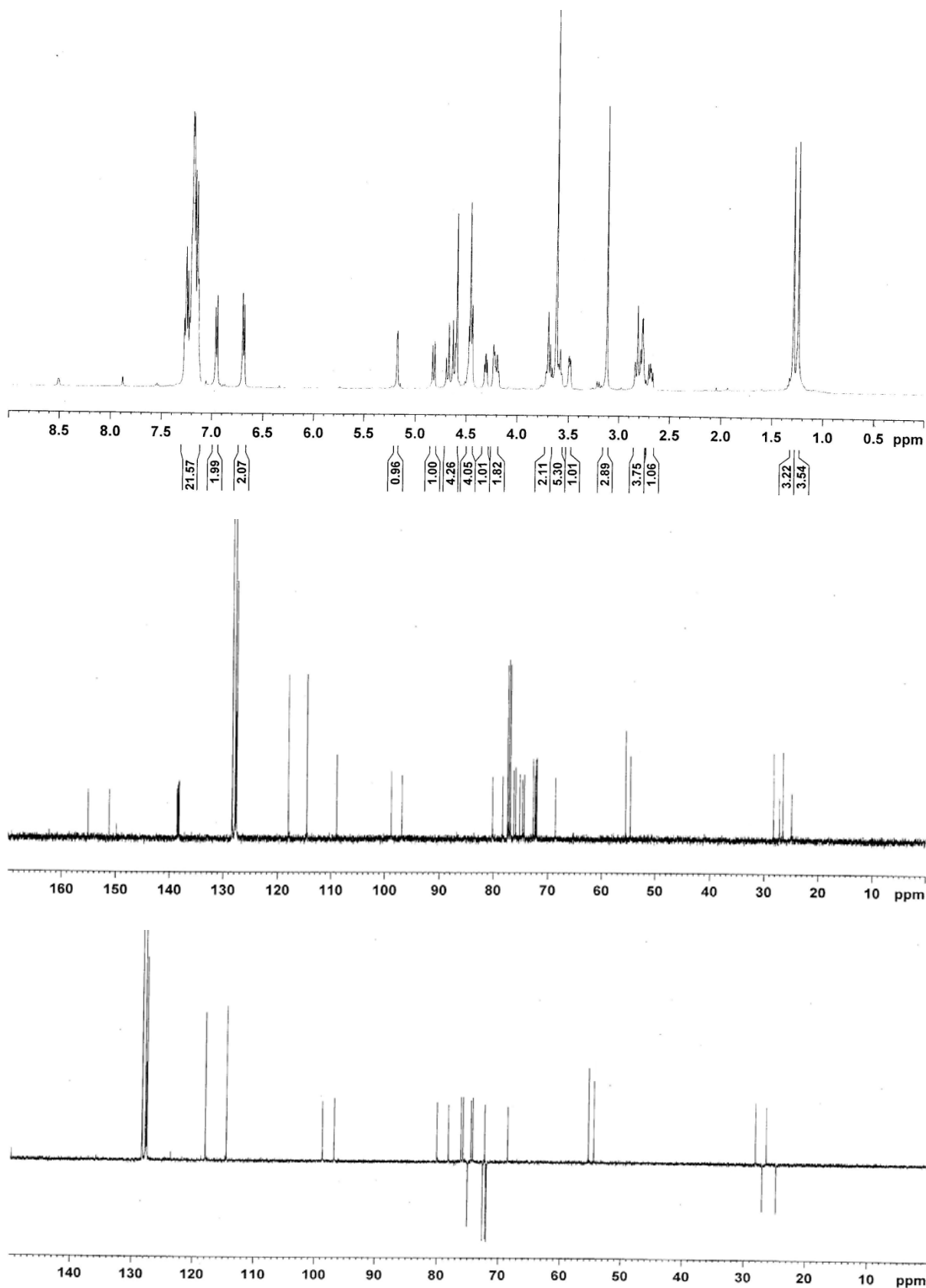
^1H , ^{13}C and DEPT 135 NMR spectra of (methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl)-(2-azidoethyl 2,3,6-tri-*O*-benzyl-4-deoxy- α -D-galactopyranosid-4-yl) selenide (**28**) (500 MHz, CDCl_3).



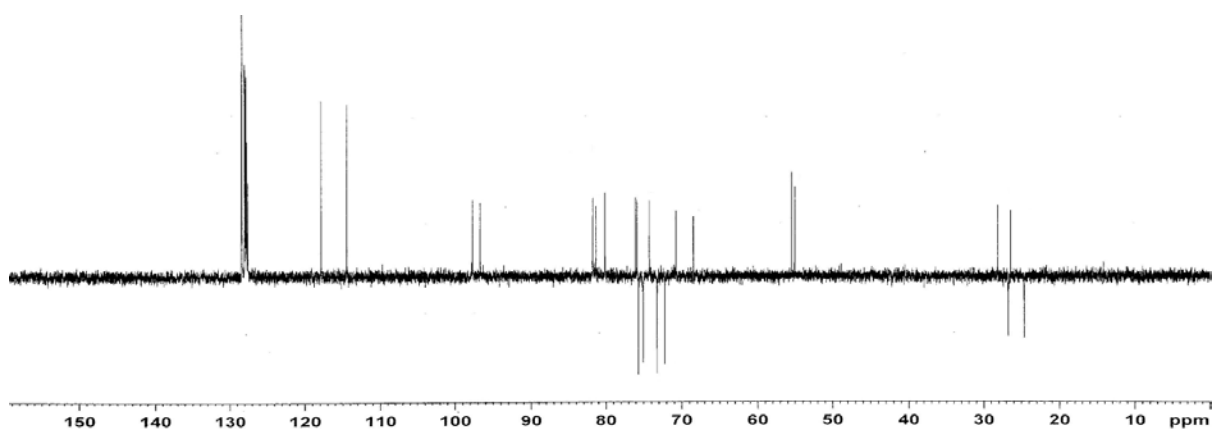
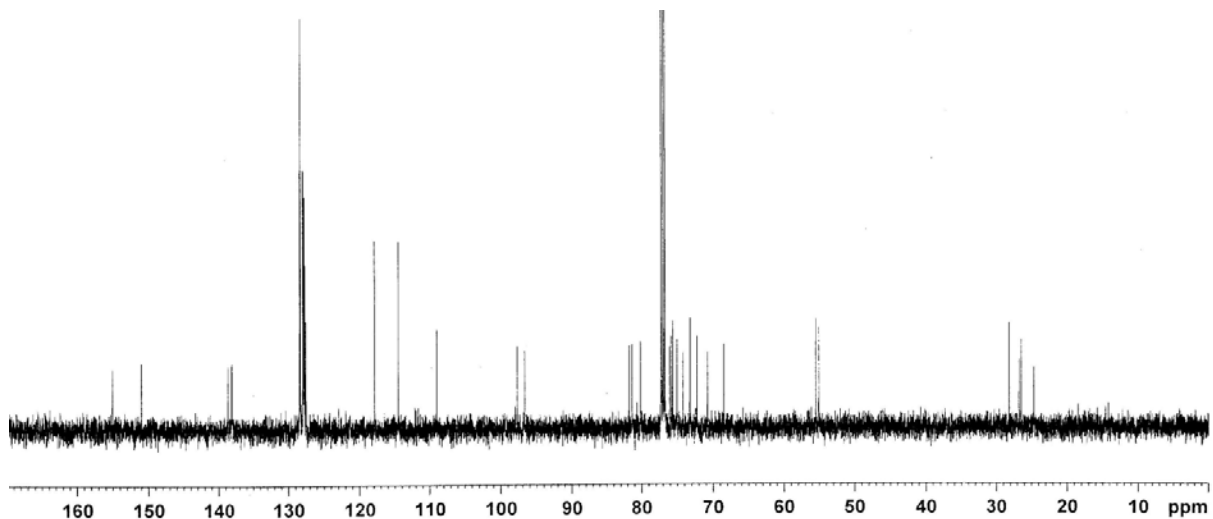
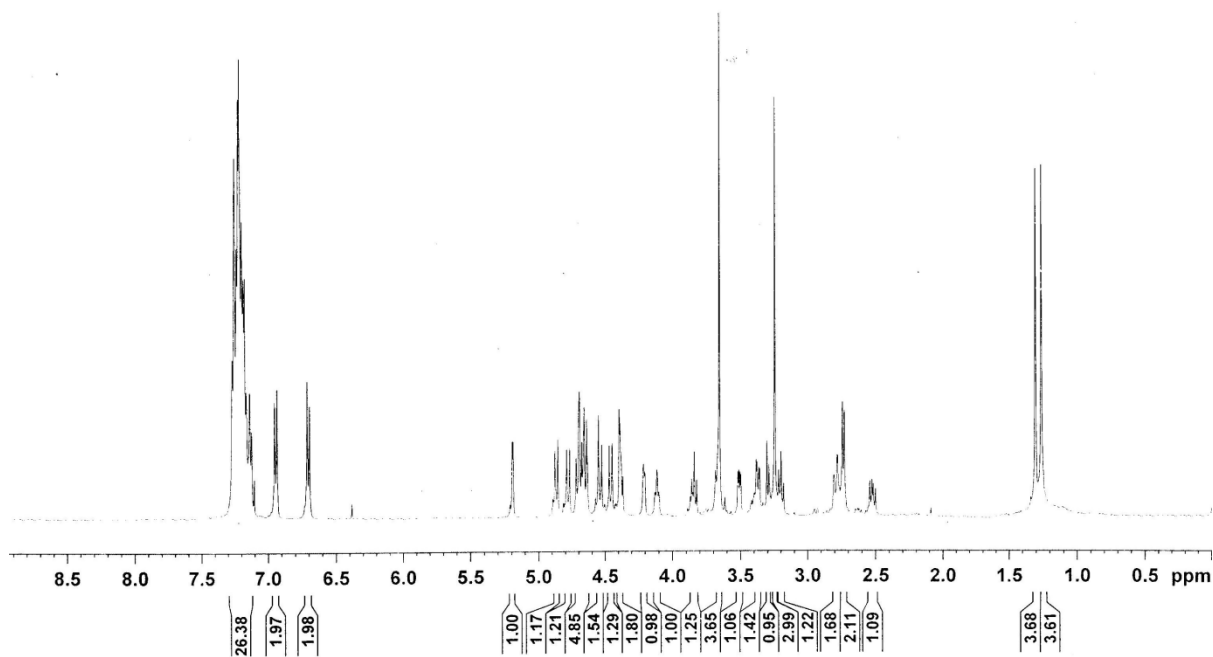
^1H , ^{13}C and DEPT 135 NMR spectra of (1,2:3,4-di-*O*-isopropylidene-6-deoxy- α -D-galactopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl) selenide (**29**) (500 MHz, CDCl_3).



^1H , ^{13}C and DEPT 135 NMR spectra of (1,2:3,4-di-*O*-isopropylidene-6-deoxy- α -D-galactopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-glucopyranosid-6-yl) selenide (**30**) (500 MHz, CDCl_3).



^1H , ^{13}C and DEPT 135 NMR spectra of (*p*-methoxyphenyl 2-*O*-benzyl-3,4-*O*-isopropylidene-6-deoxy- α -D-galactopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-mannopyranosid-6-yl) selenide (**31**) (500 MHz, CDCl_3).



¹H, ¹³C and DEPT 135 NMR spectra of (*p*-methoxyphenyl 2-*O*-benzyl-3,4-*O*-isopropylidene-6-deoxy- α -D-galactopyranosid-6-yl)-(methyl 2,3,4-tri-*O*-benzyl-6-deoxy- α -D-glucopyranosid-6-yl) selenide (**32**) (500 MHz, CDCl₃).