

# Supporting Information File 2

## for

### Carbohydrate-auxiliary assisted preparation of enantiopure 1,2-oxazine derivatives and aminopolyols

Marcin Jasiński<sup>1,2</sup>, Dieter Lentz<sup>1,§</sup> and Hans-Ulrich Reissig<sup>\*,1</sup>

Address: <sup>1</sup>Institut für Chemie und Biochemie, Freie Universität Berlin, Takustr. 3, D-14195 Berlin, Germany and <sup>2</sup>Department of Organic and Applied Chemistry, University of Łódź, Tamka 12, PL-91-403 Poland

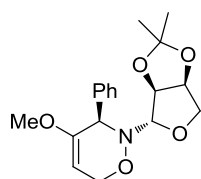
Email: Hans-Ulrich Reissig\* - hreissig@chemie.fu-berlin.de

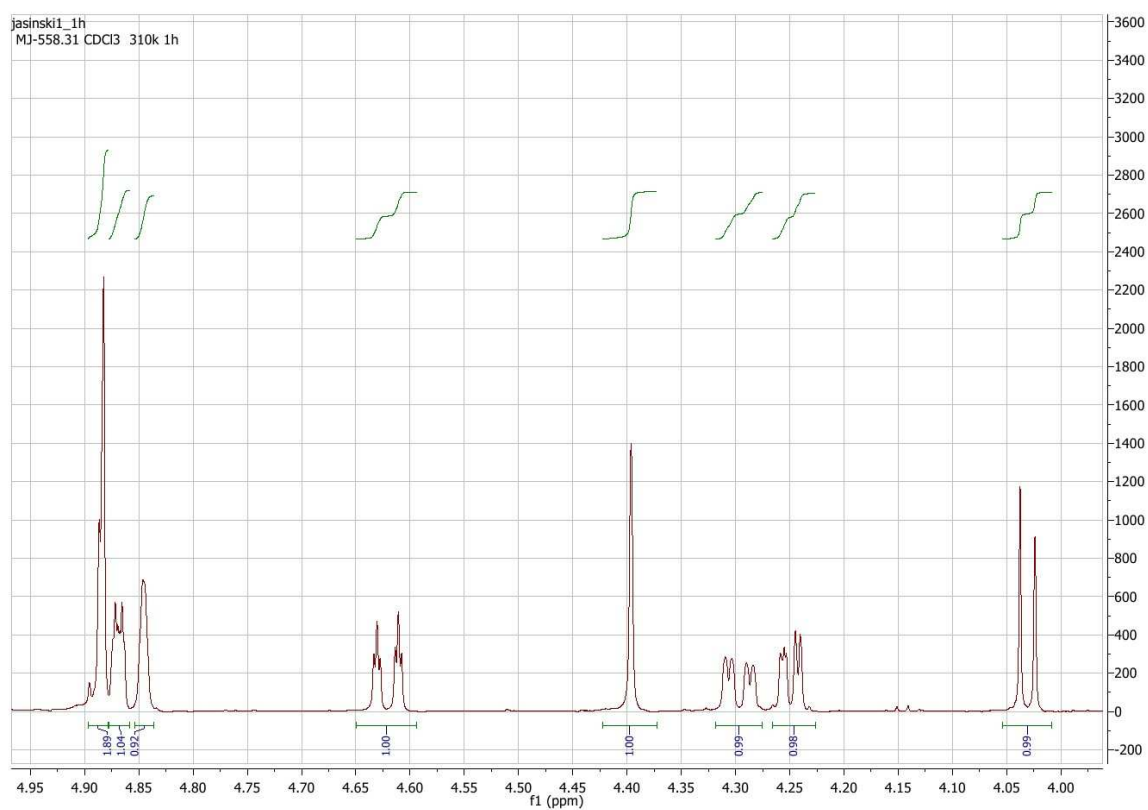
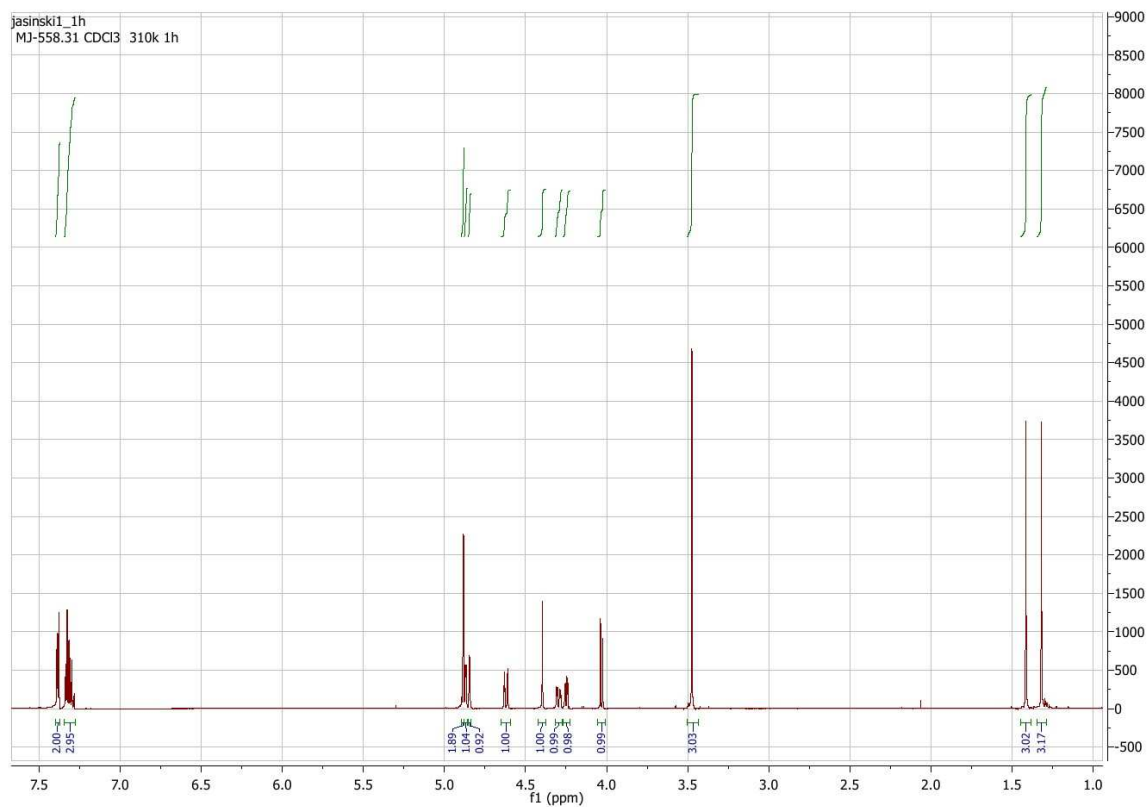
\* Corresponding author

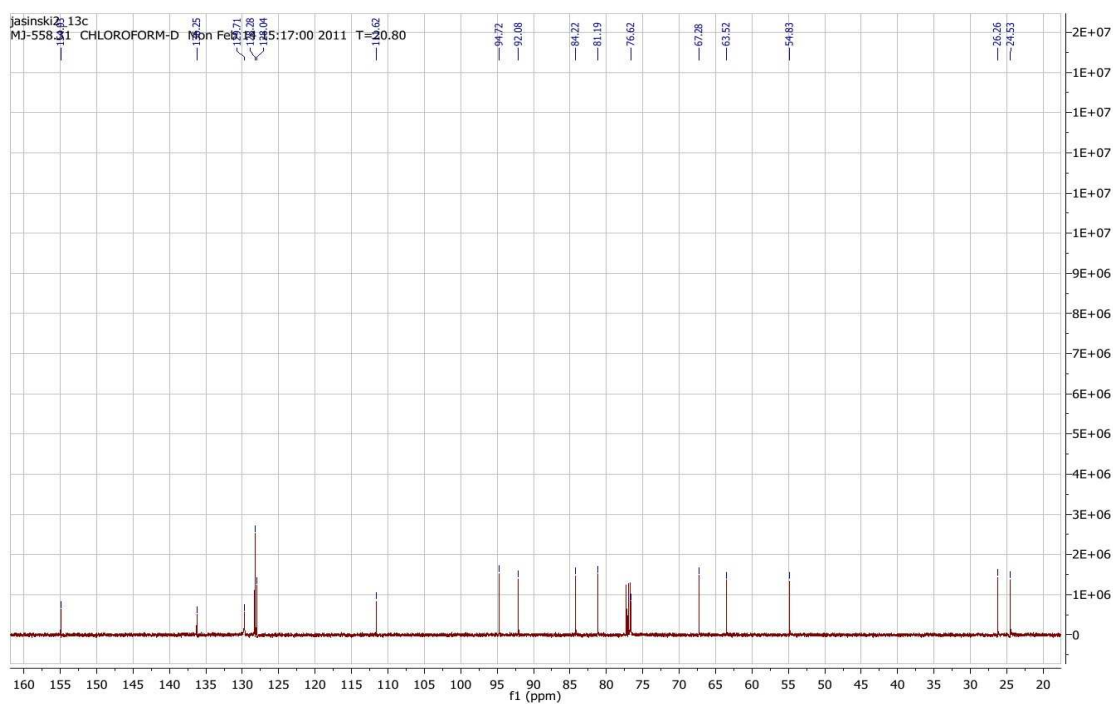
§ Responsible for X-ray crystal structure determination

### <sup>1</sup>H NMR and <sup>13</sup>C NMR spectra of synthesised compounds

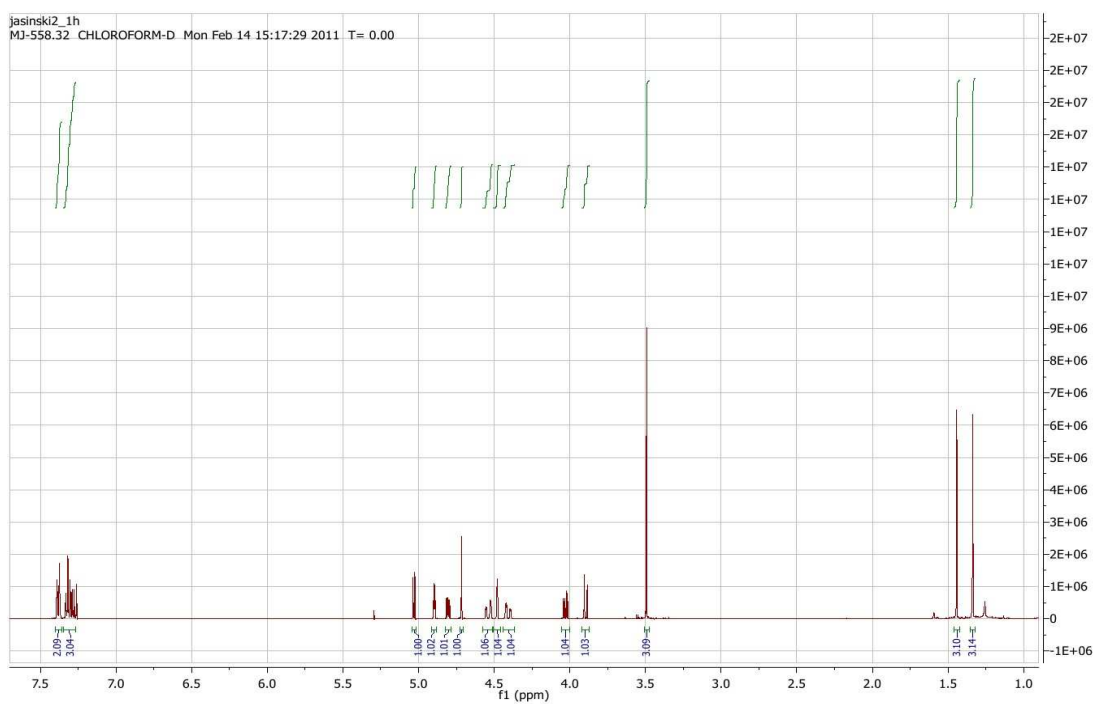
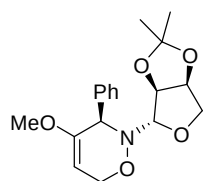
#### Compound (3S)-3a:

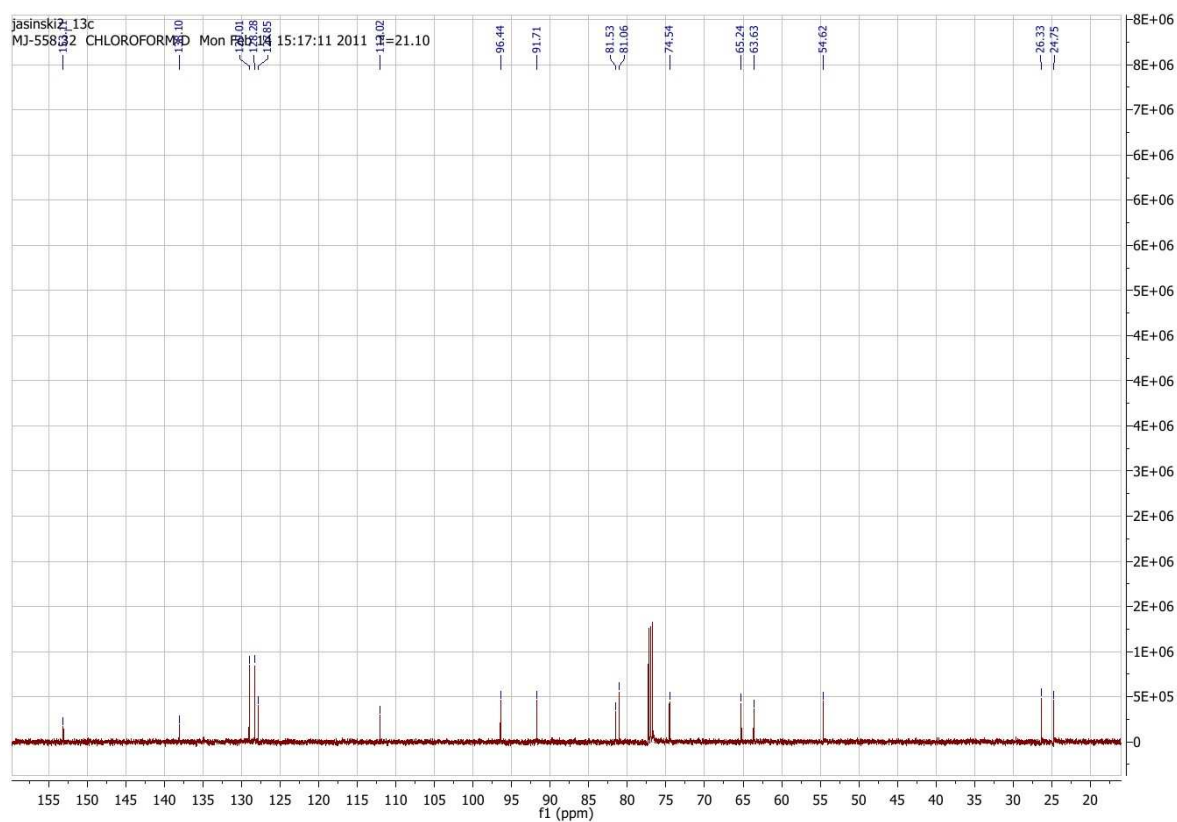
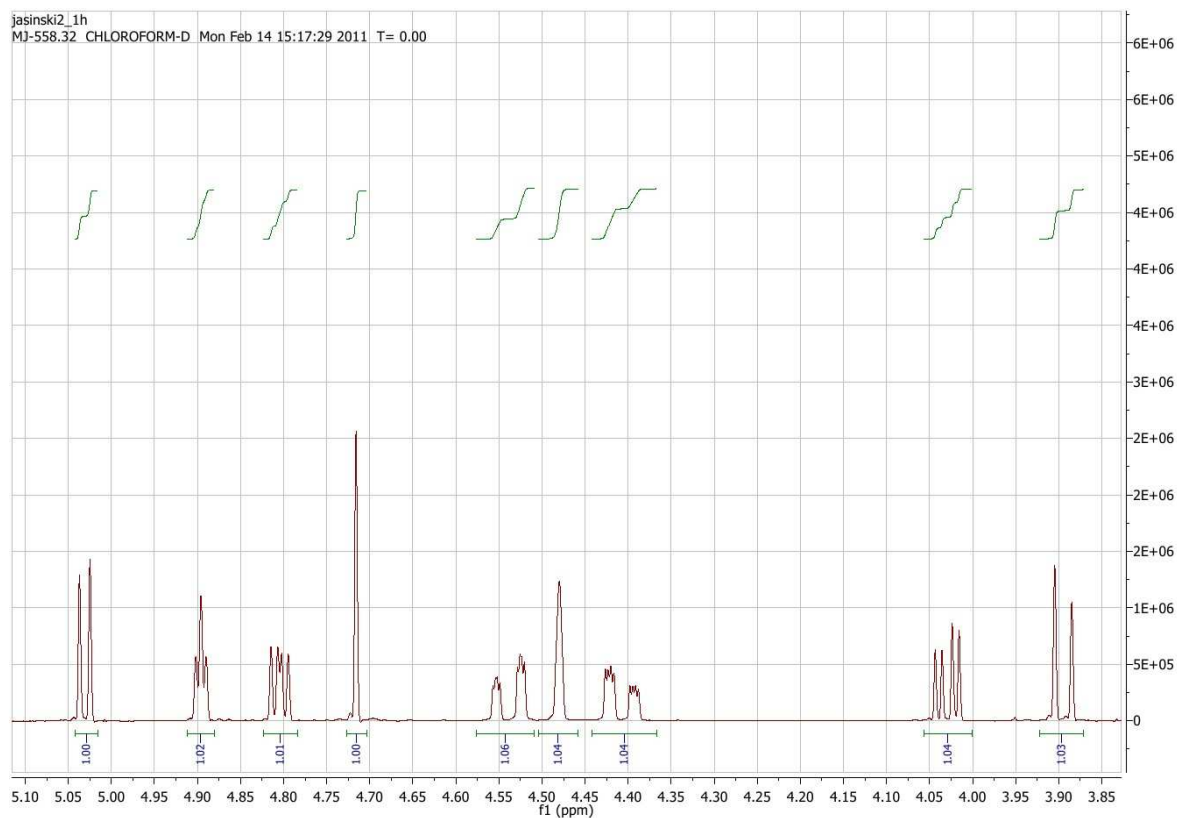






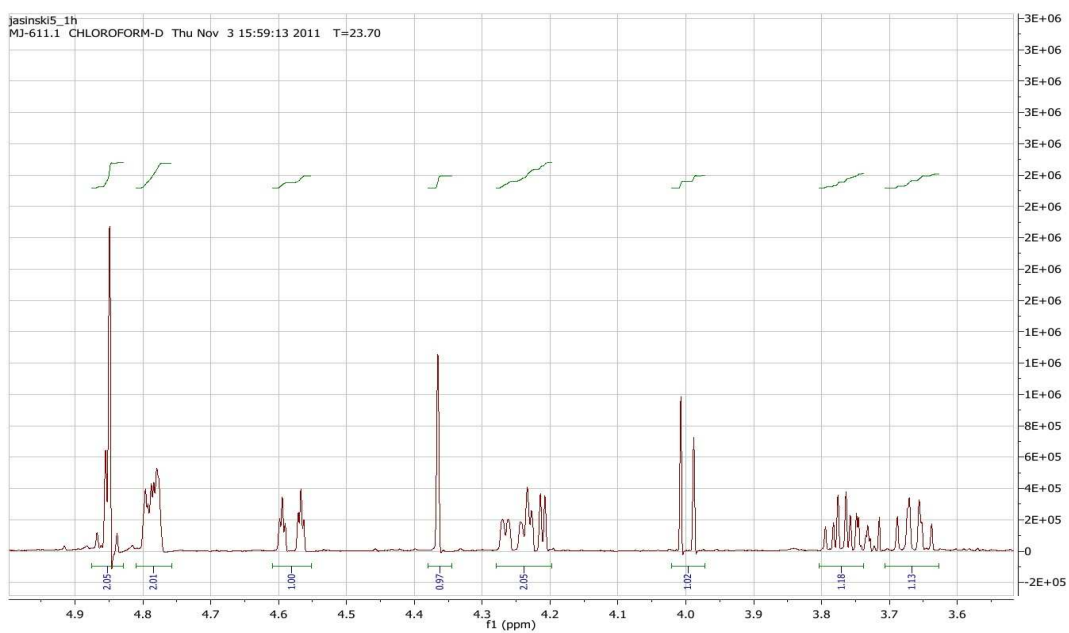
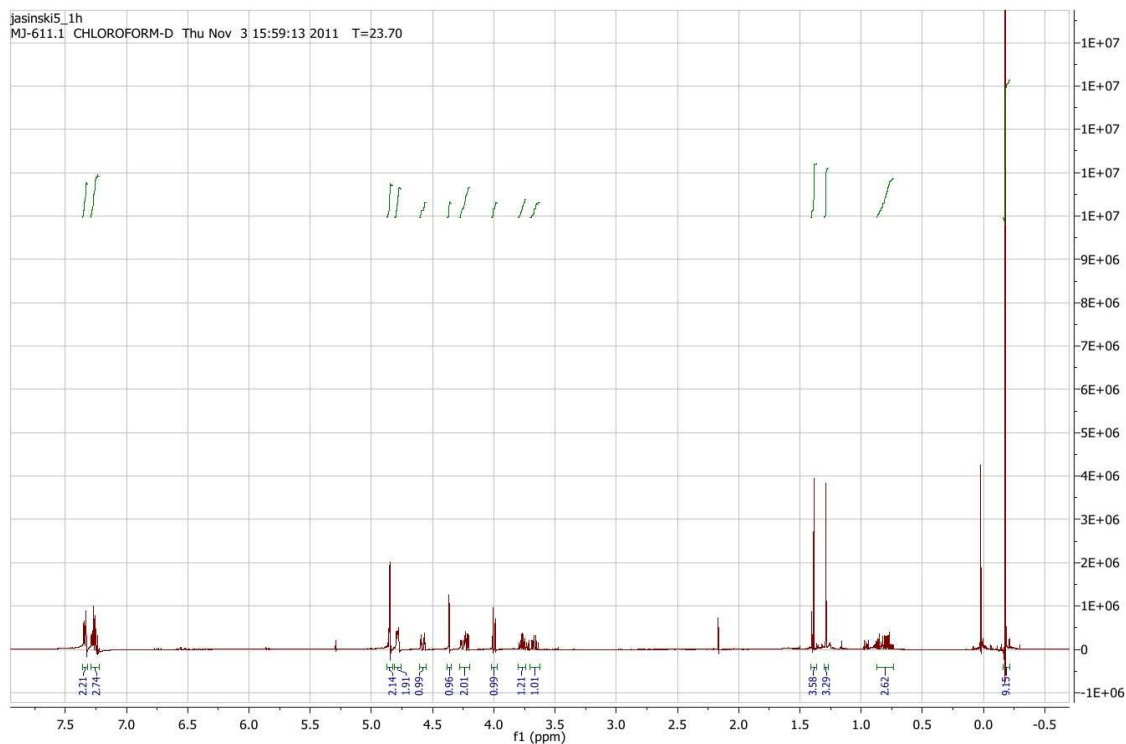
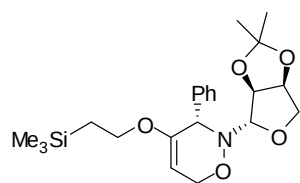
### Compound (3R)-3a:

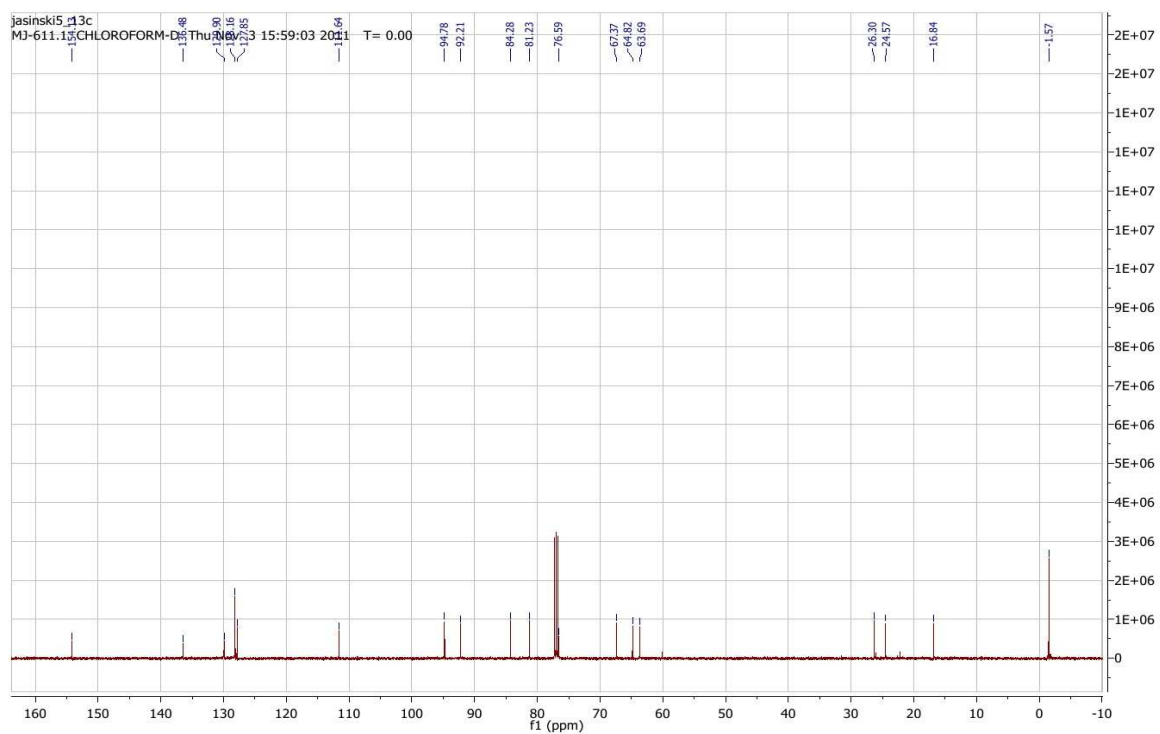




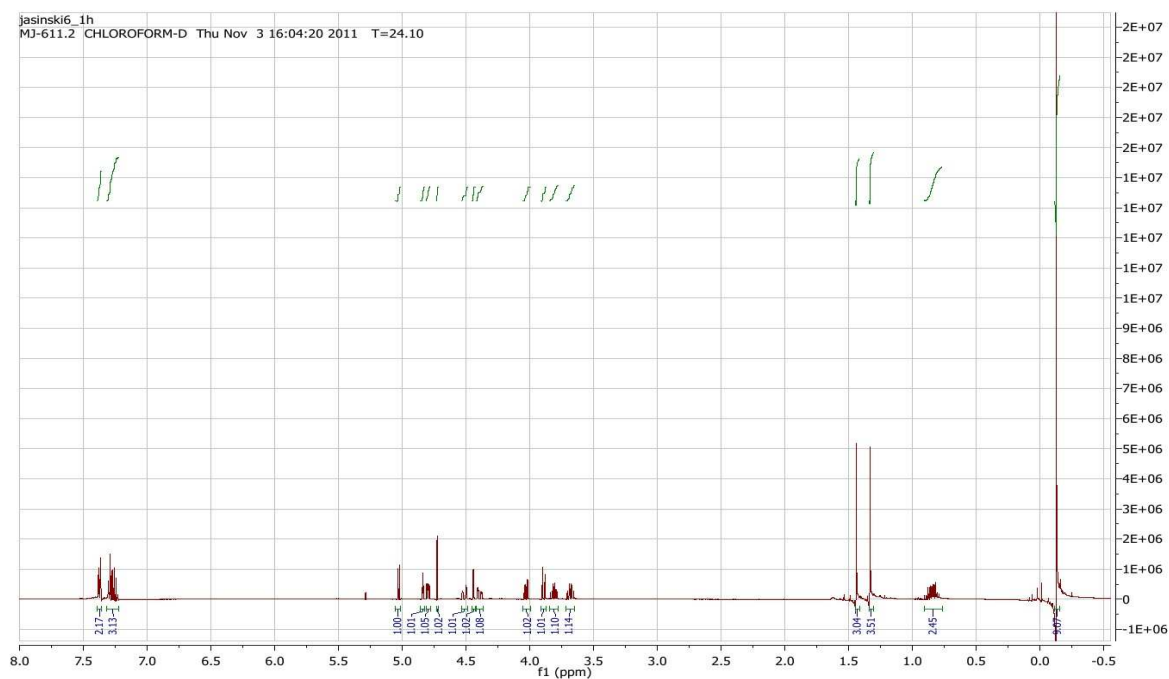
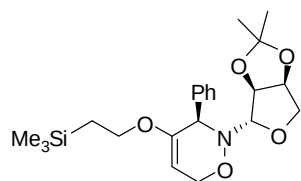


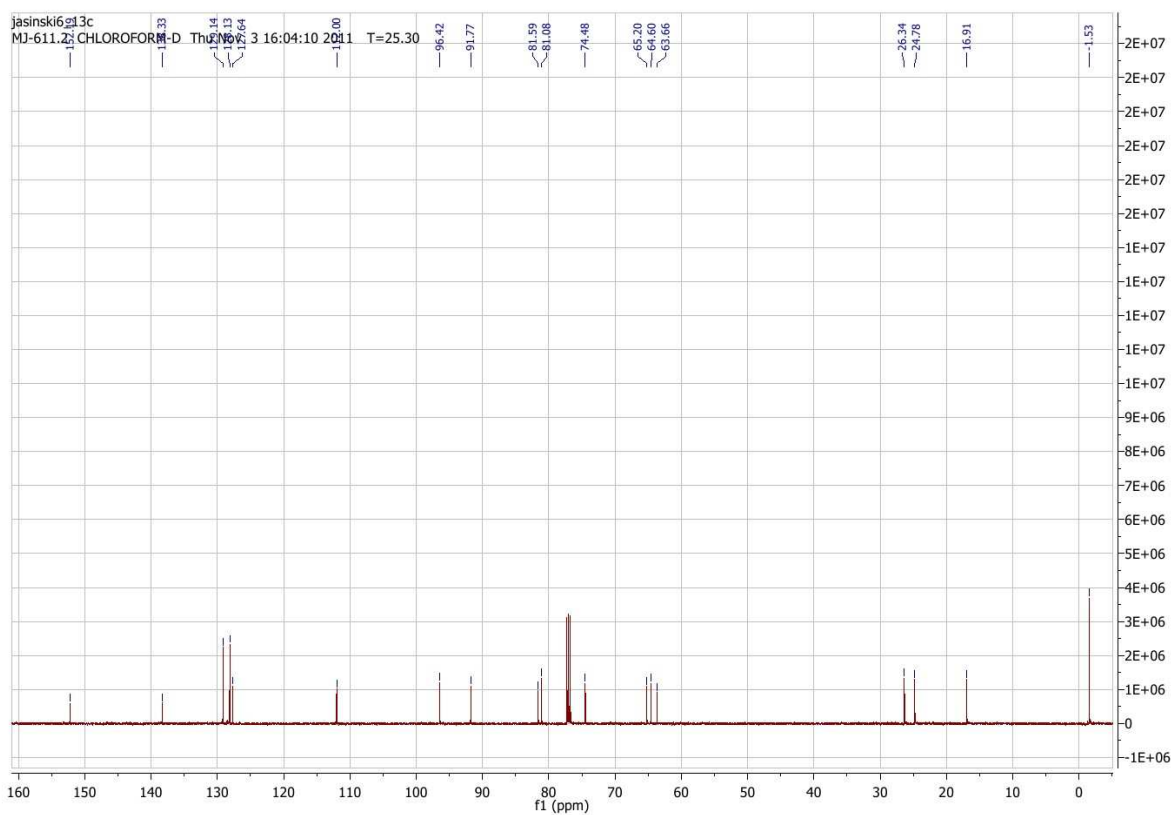
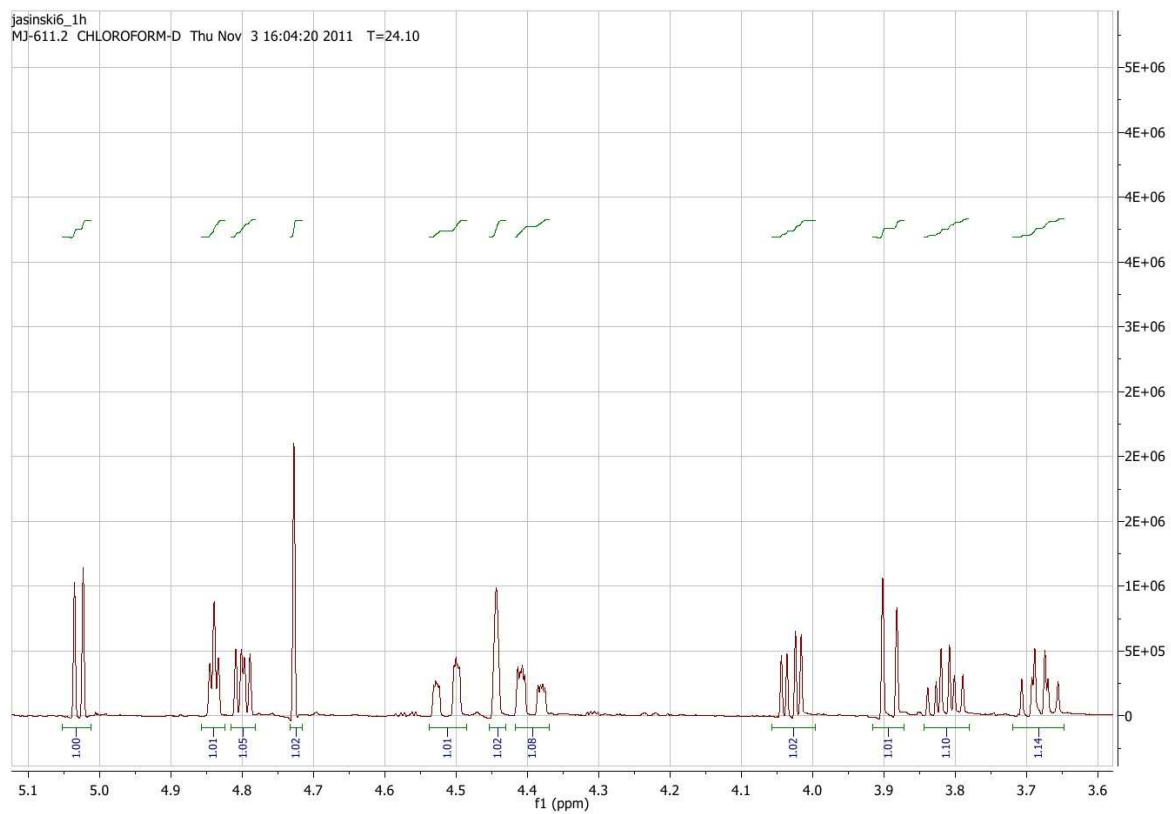
# Compound (3S)-3b:



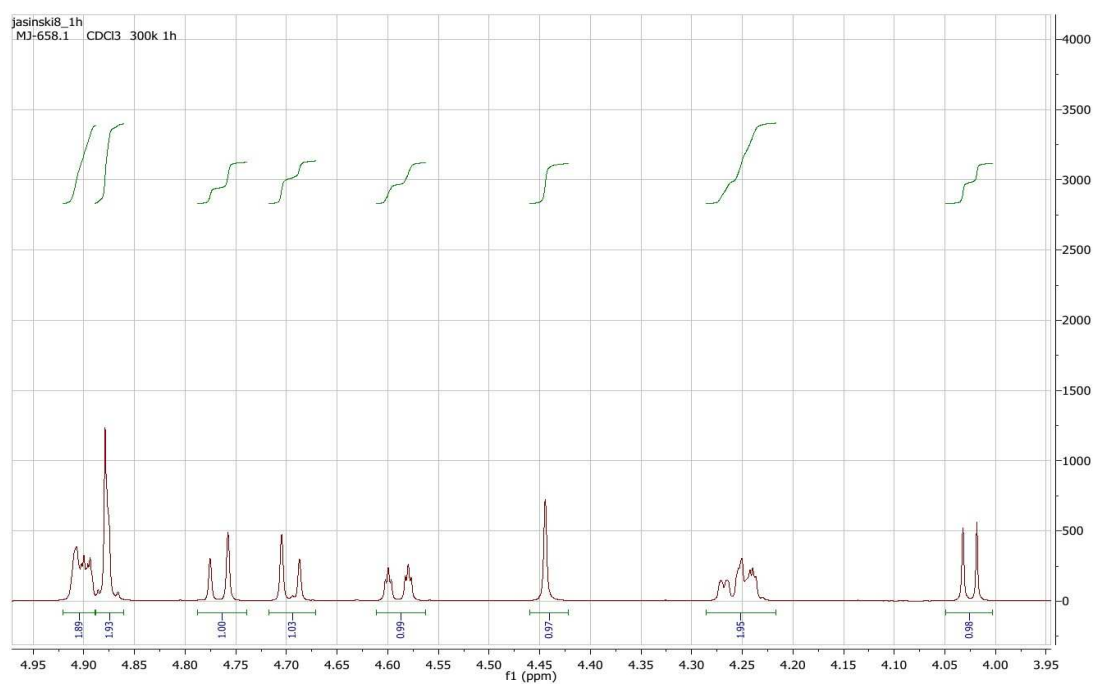
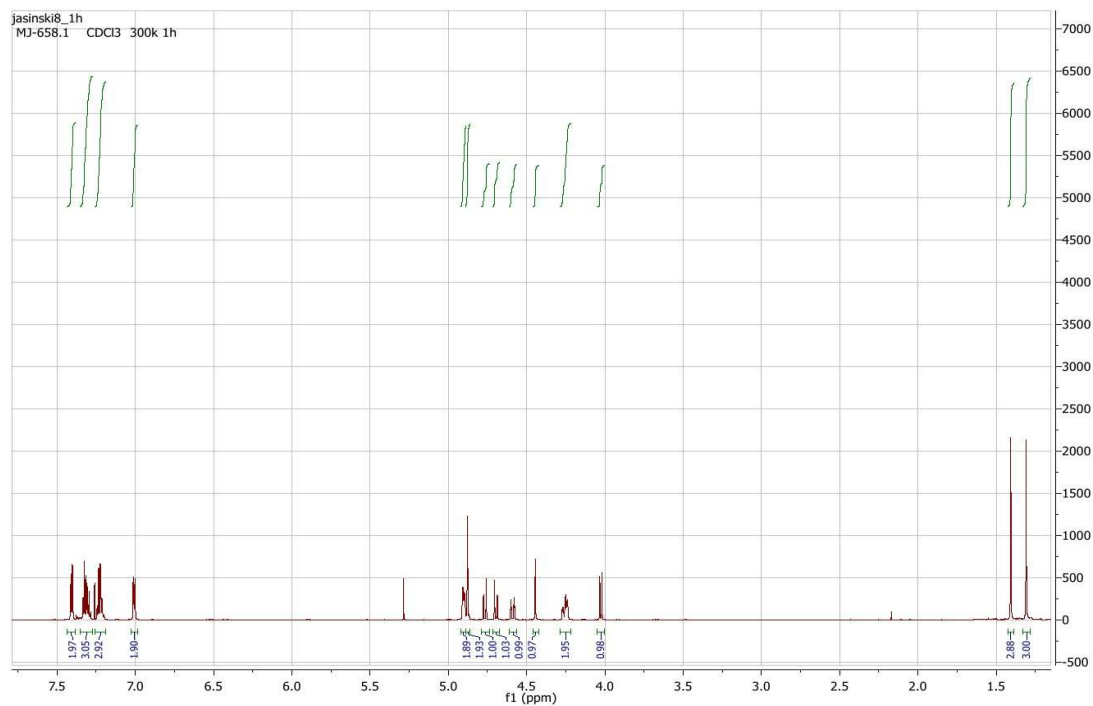
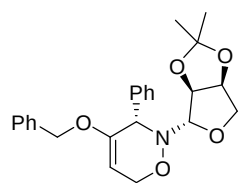


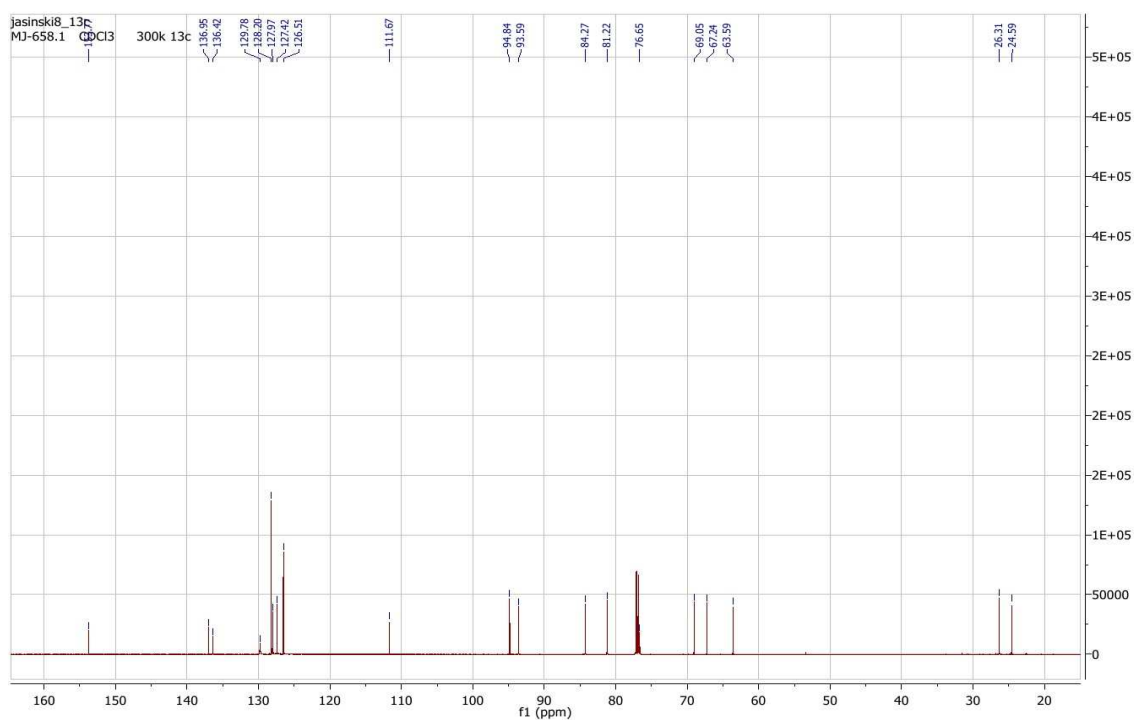
### Compound (3R)-3b:



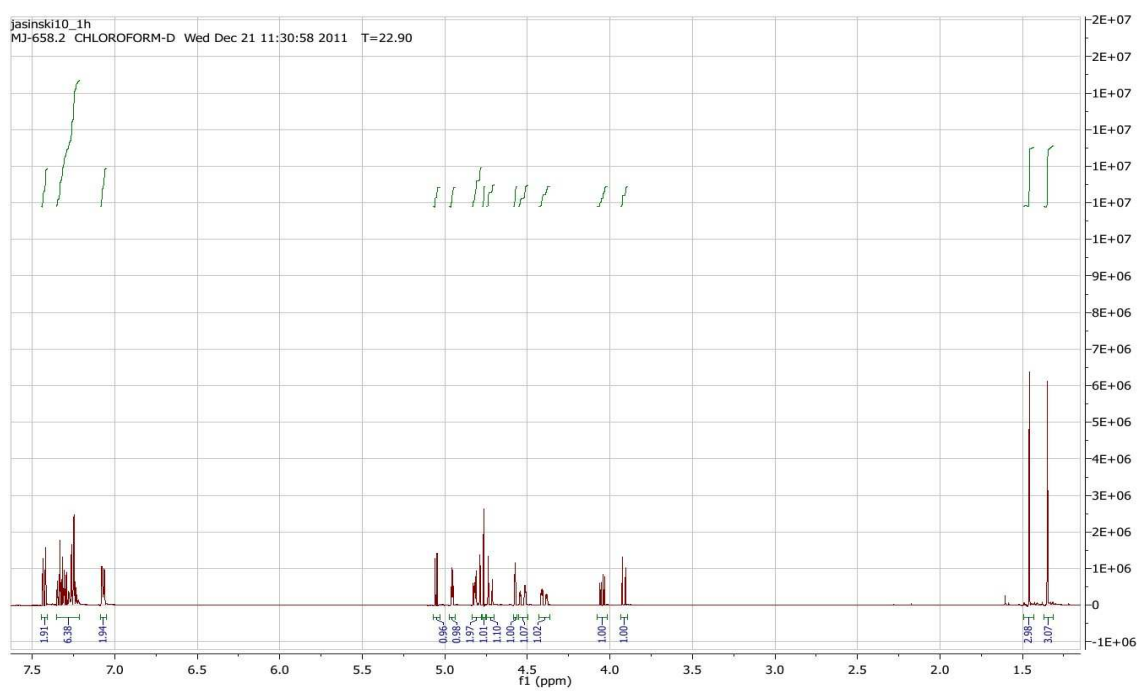
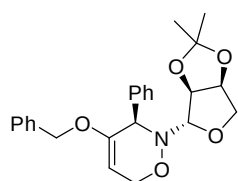


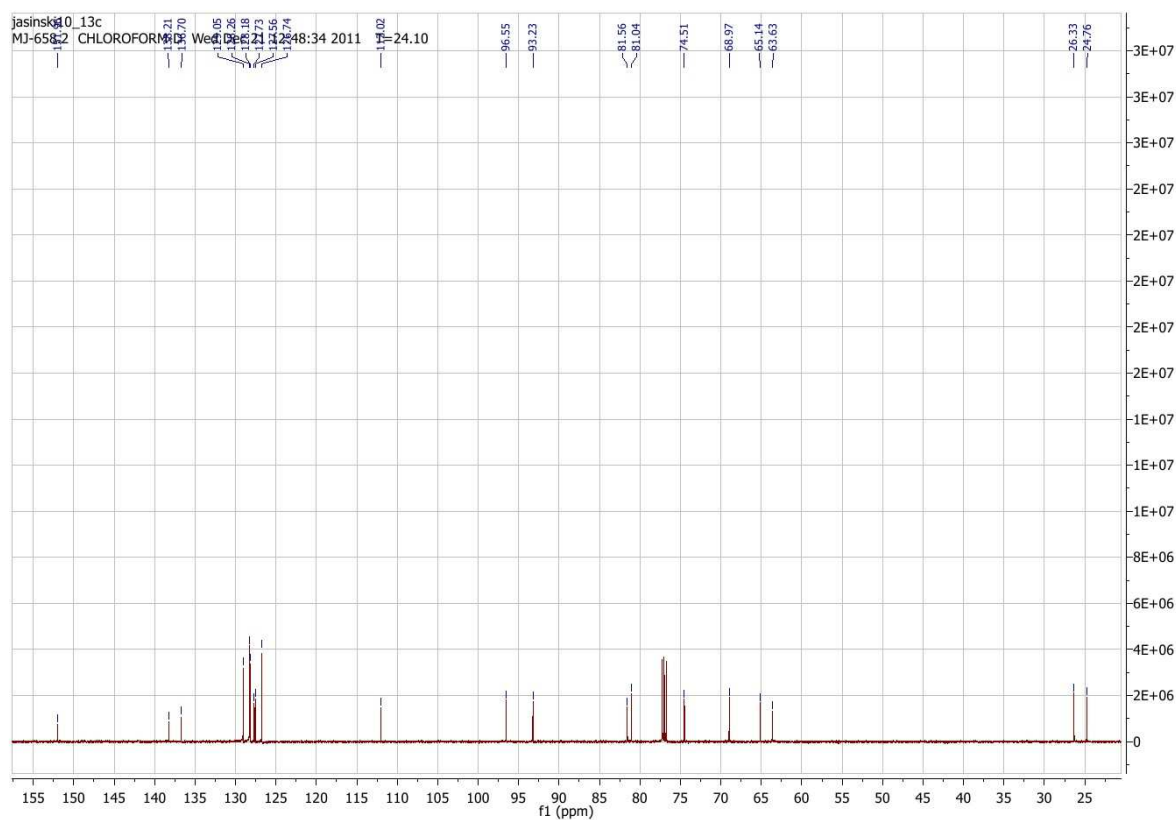
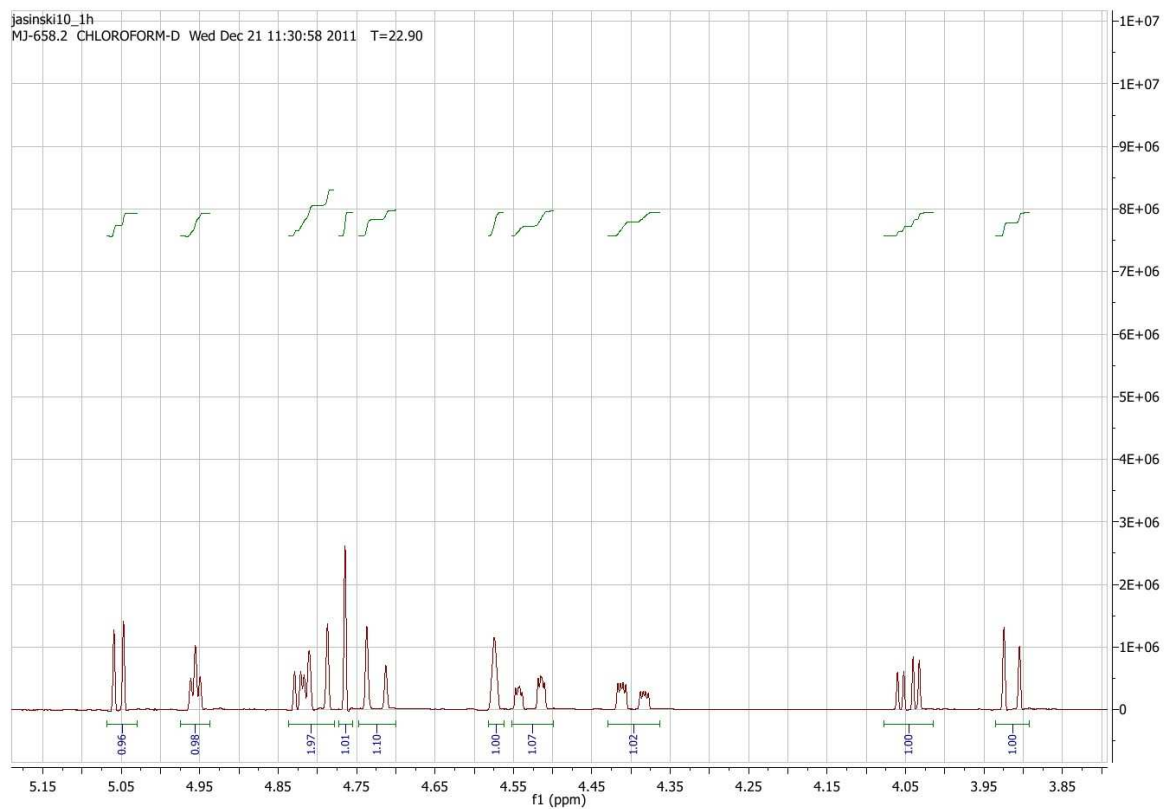
# Compound (3S)-3c:



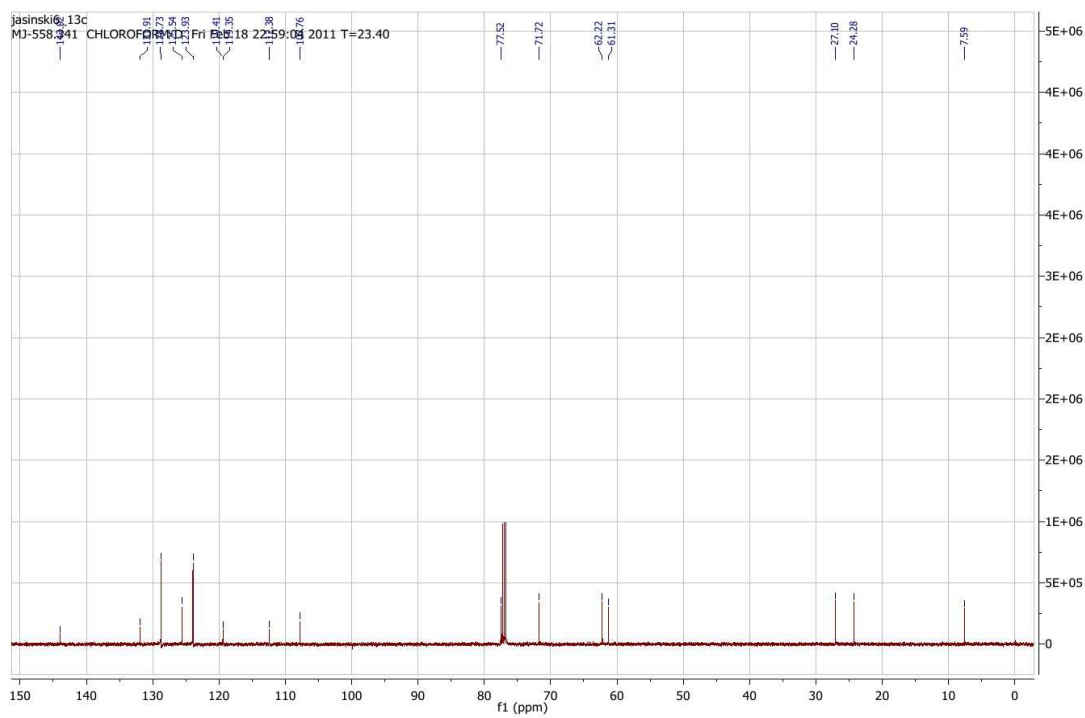


### Compound (3R)-3c:

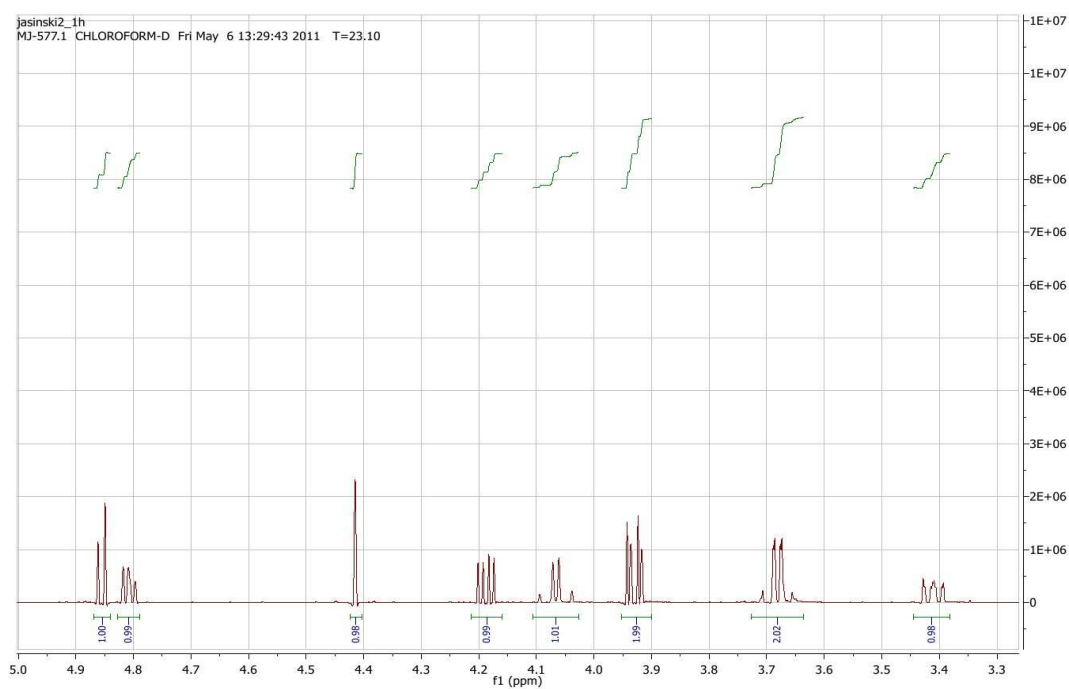
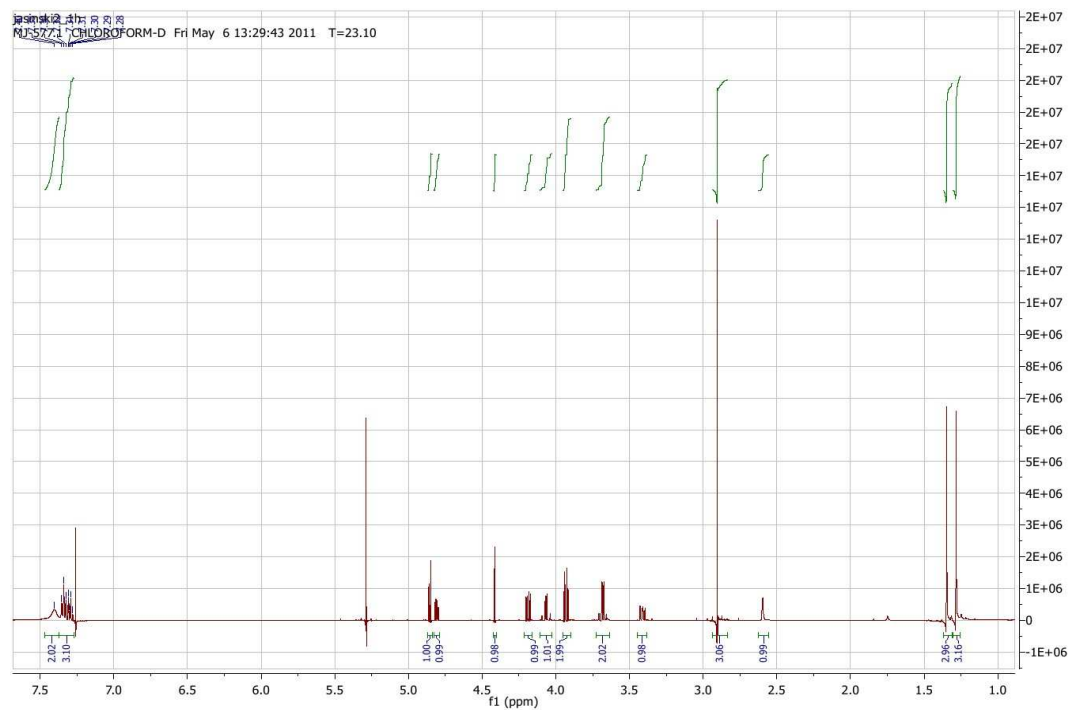
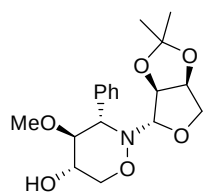




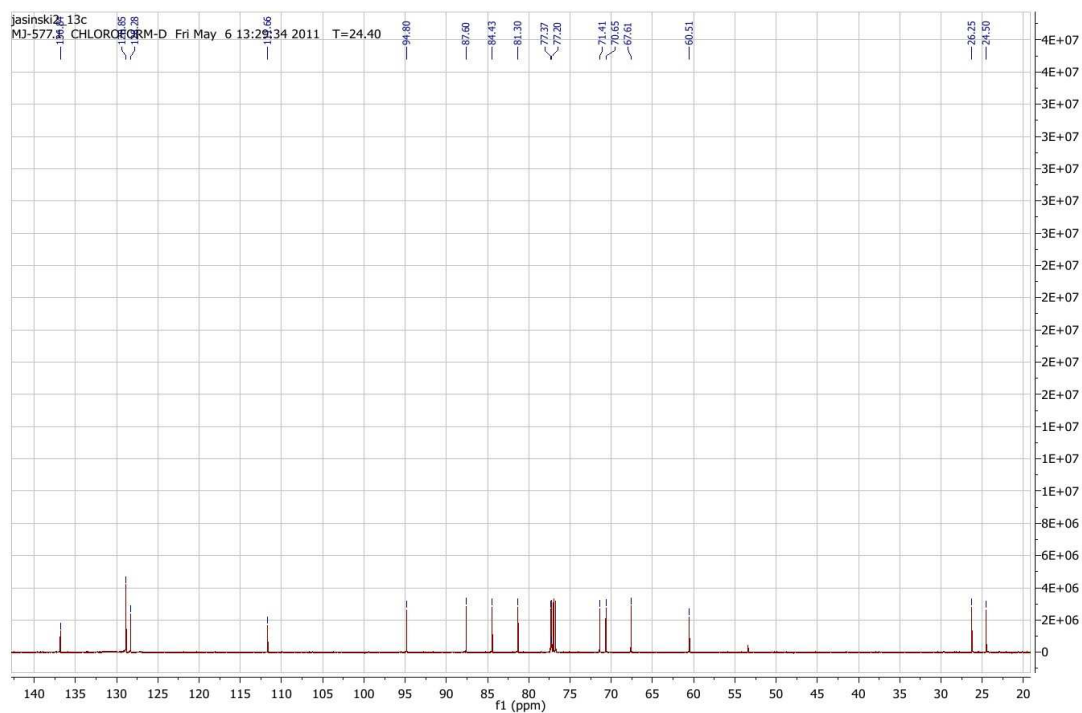
The chemical structure shows a benzofuran core. The benzene ring is substituted with a phenyl group (Ph) at position 6, a methoxy group (MeO) at position 5, and a methyl group (Me) at position 4. The furan ring has a methyl group (Me) at position 3. At position 2, there is a chiral center bonded to a hydroxymethyl group (CH<sub>2</sub>OH) with a dashed bond and a 2,2,4,4-tetramethyl-1,3-dioxolane ring with a wedged bond.



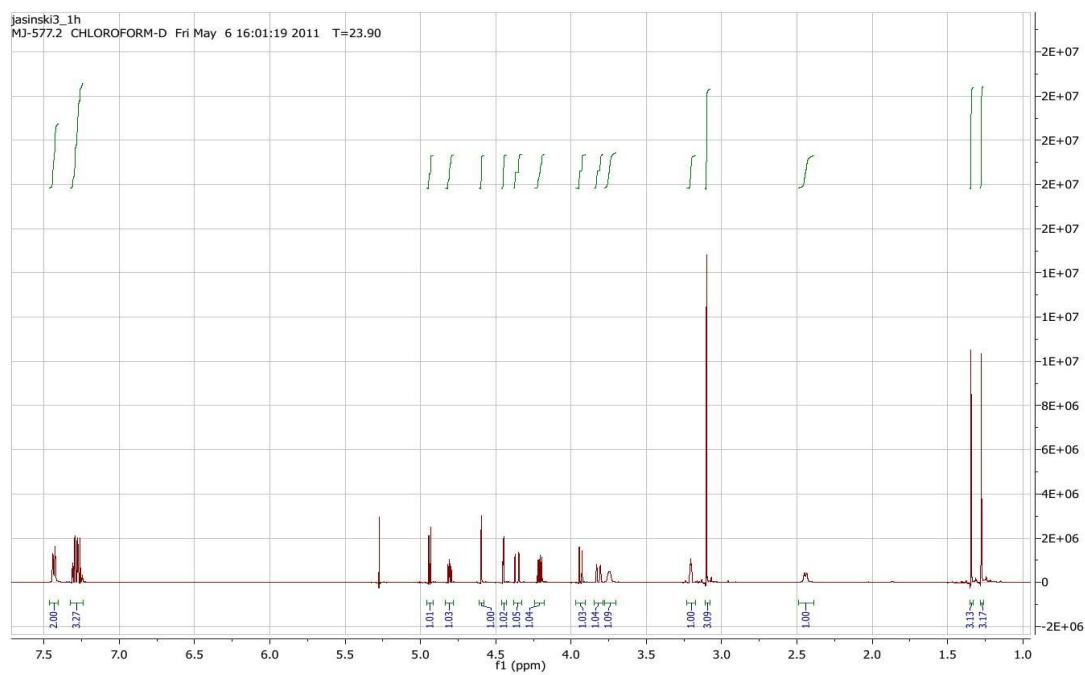
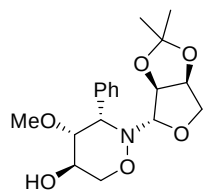
# Compound 6:

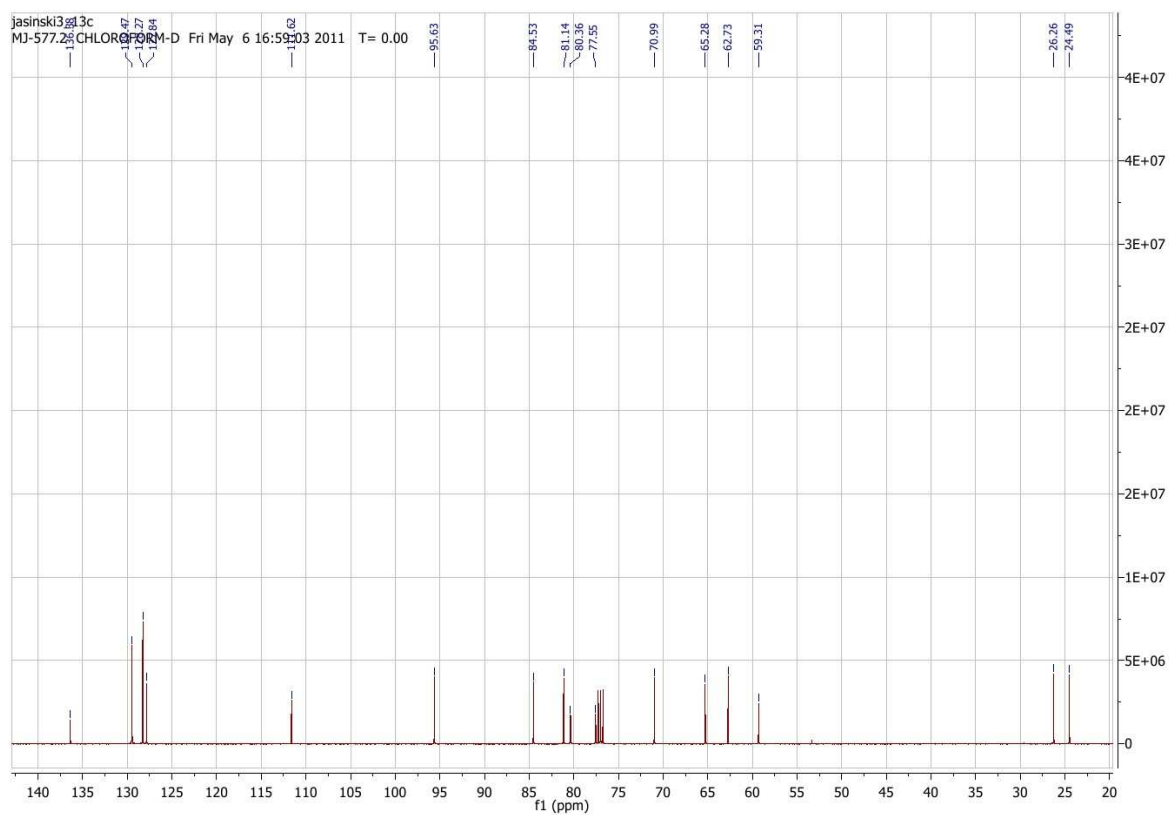
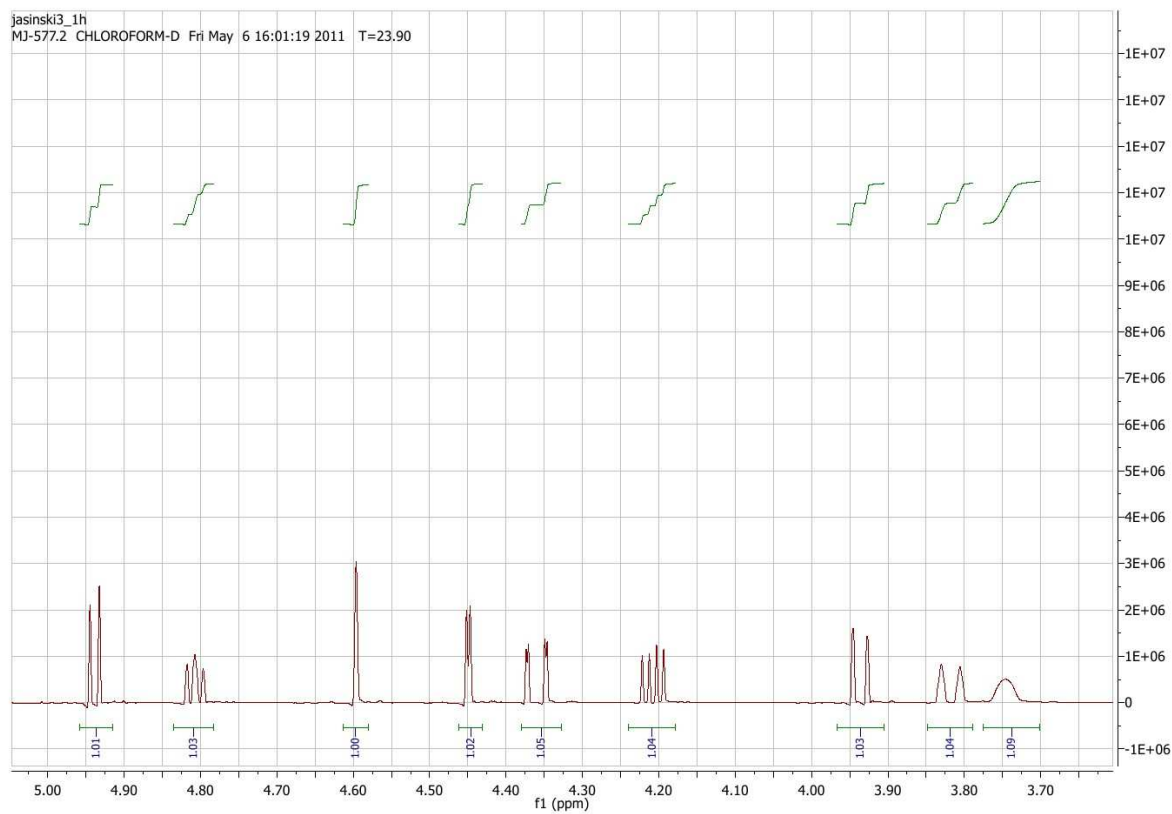




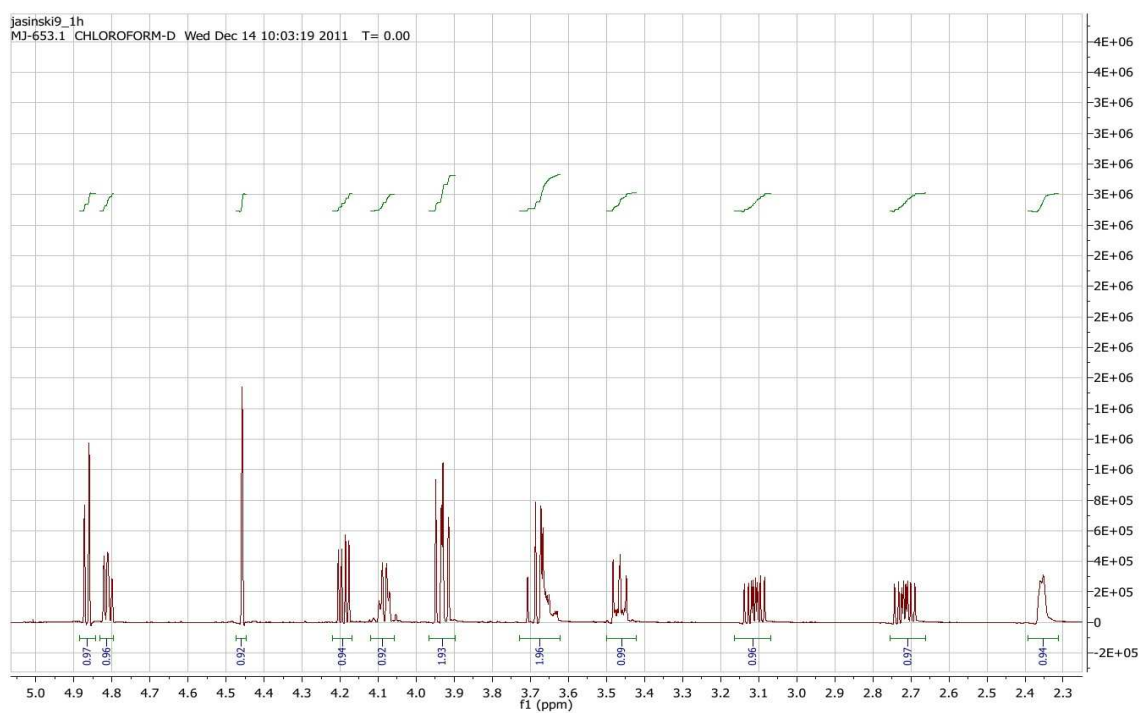
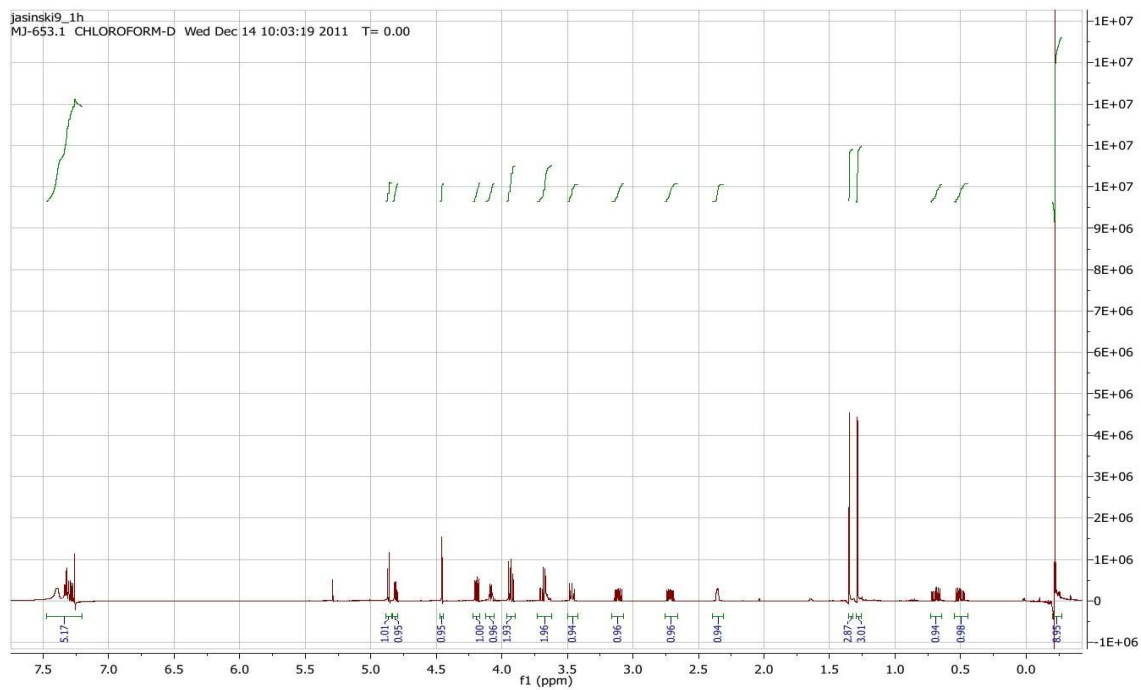
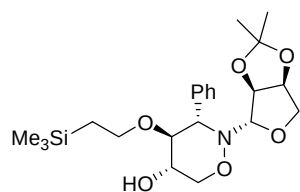


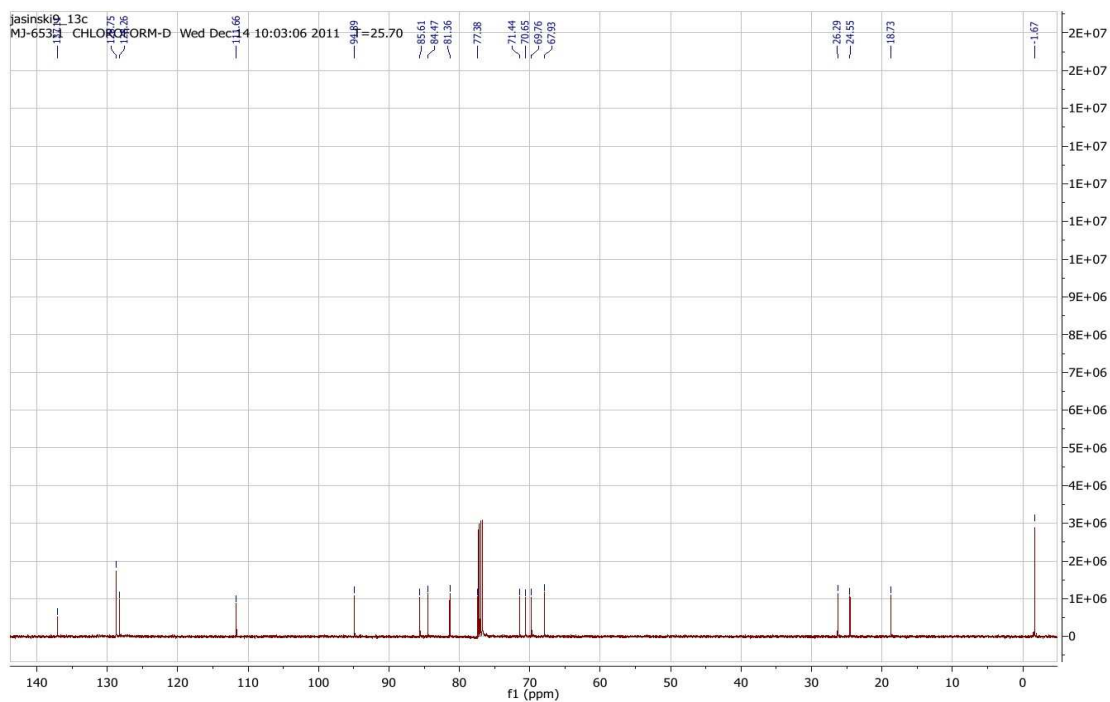
## Compound 7:



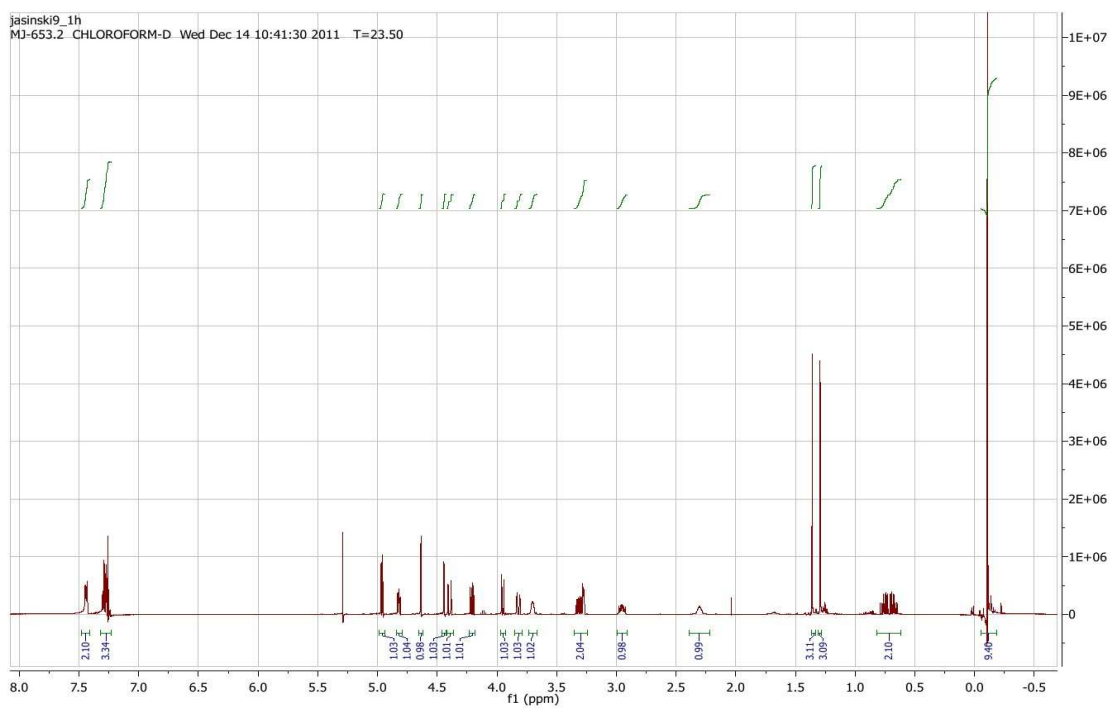
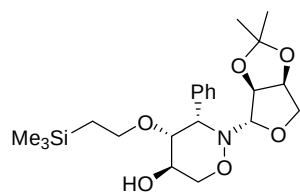


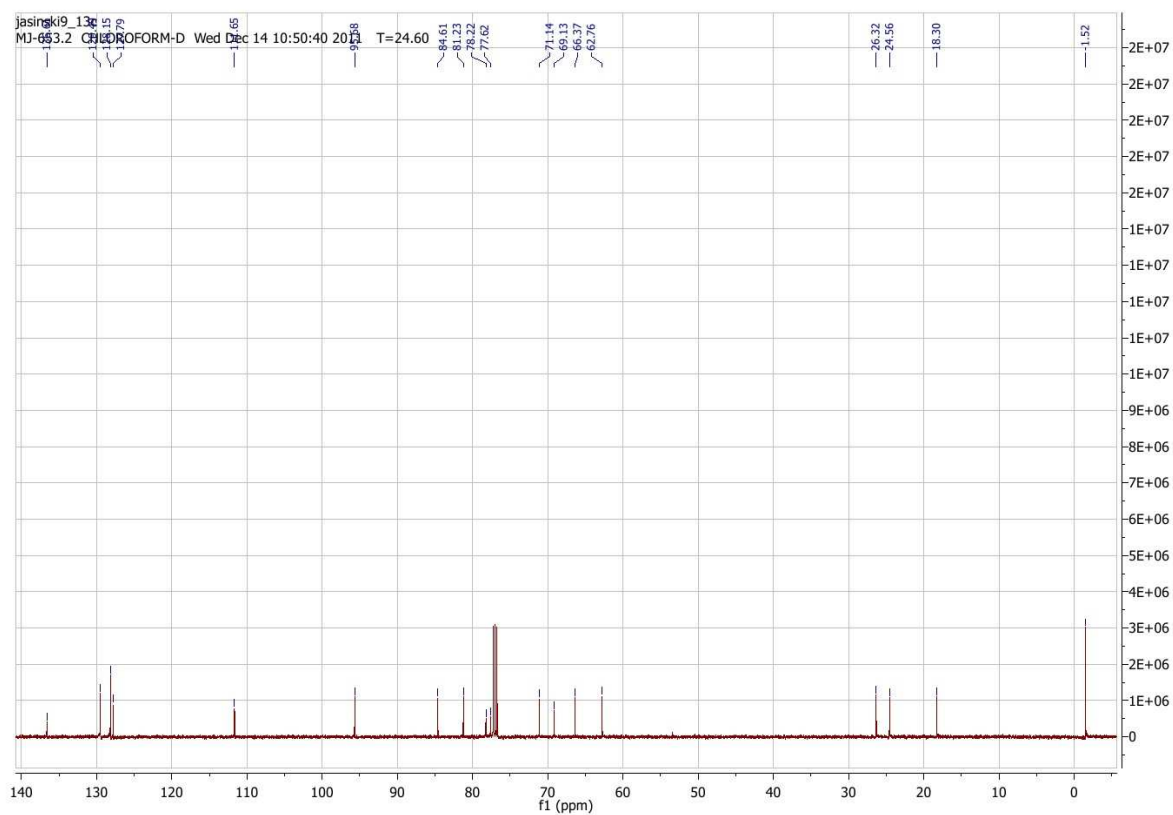
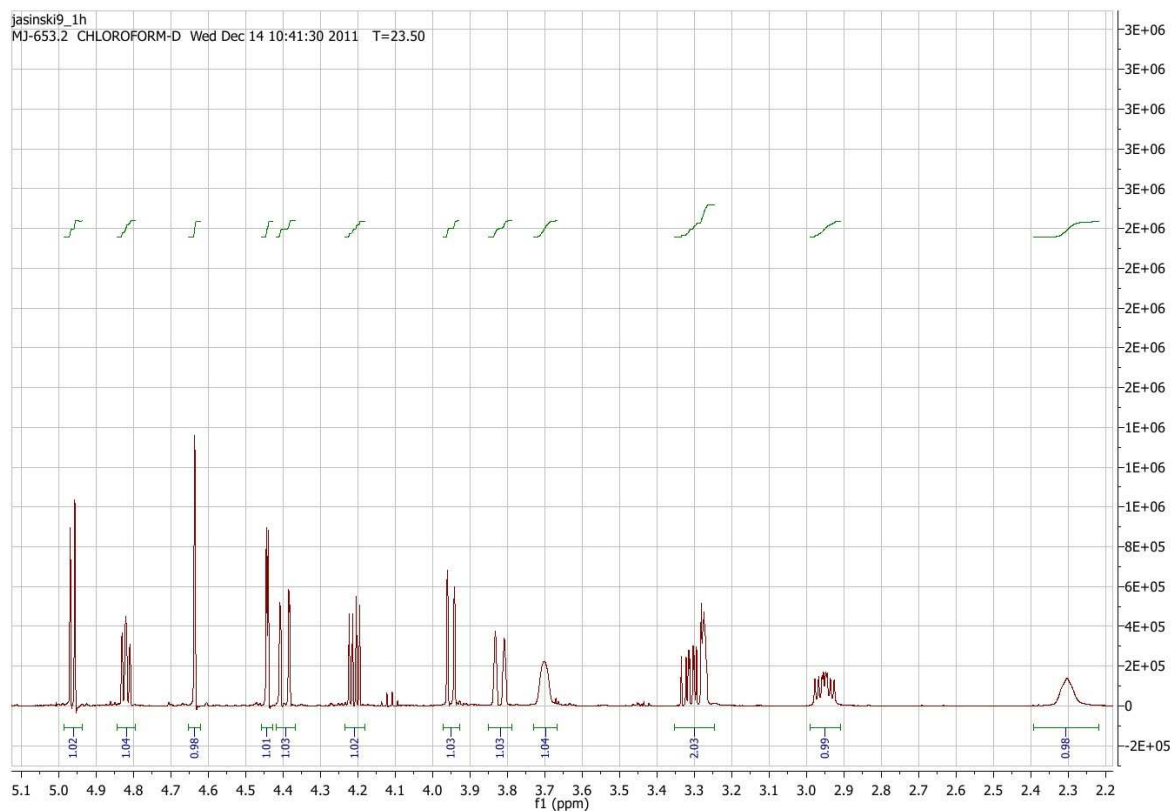
## Compound 8:



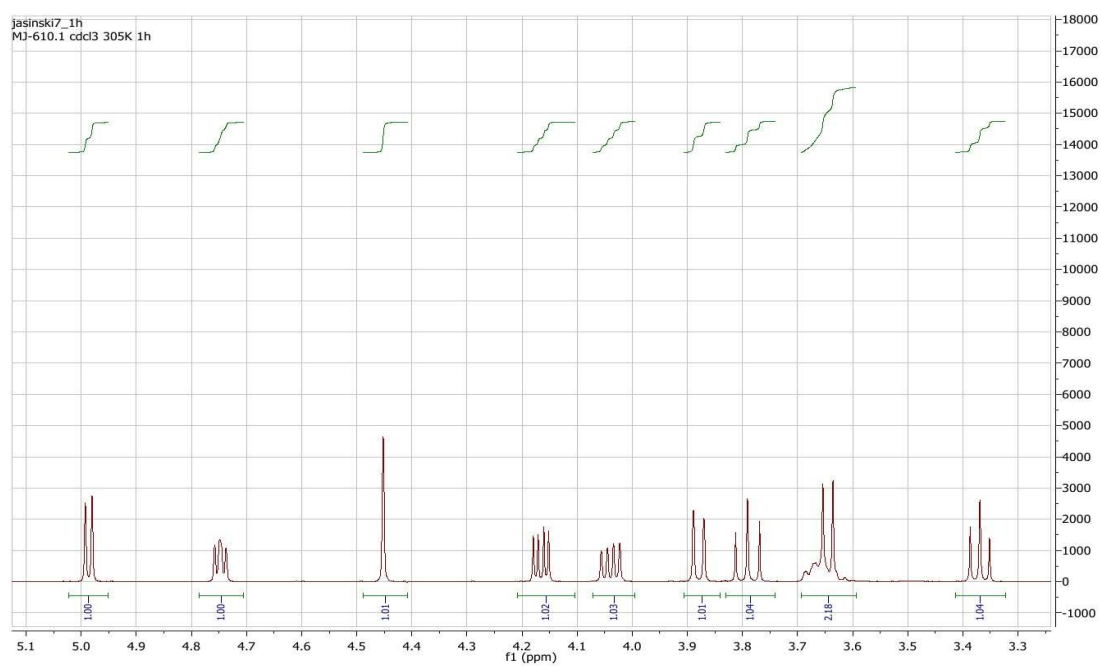
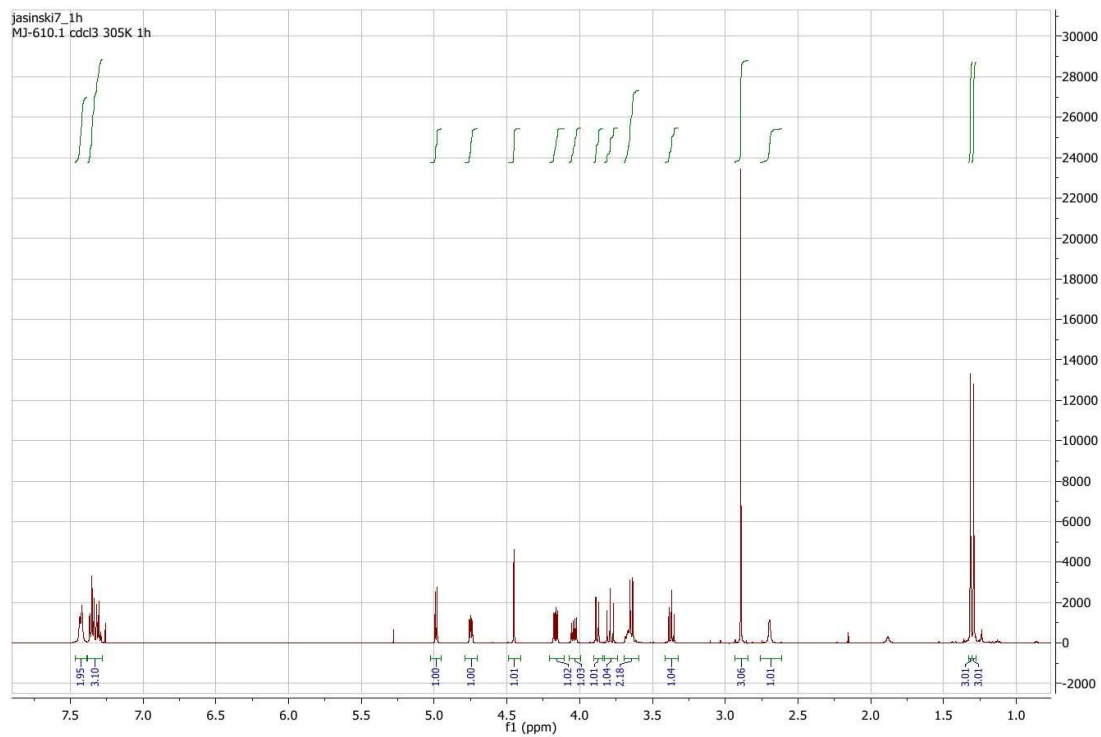
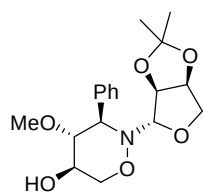


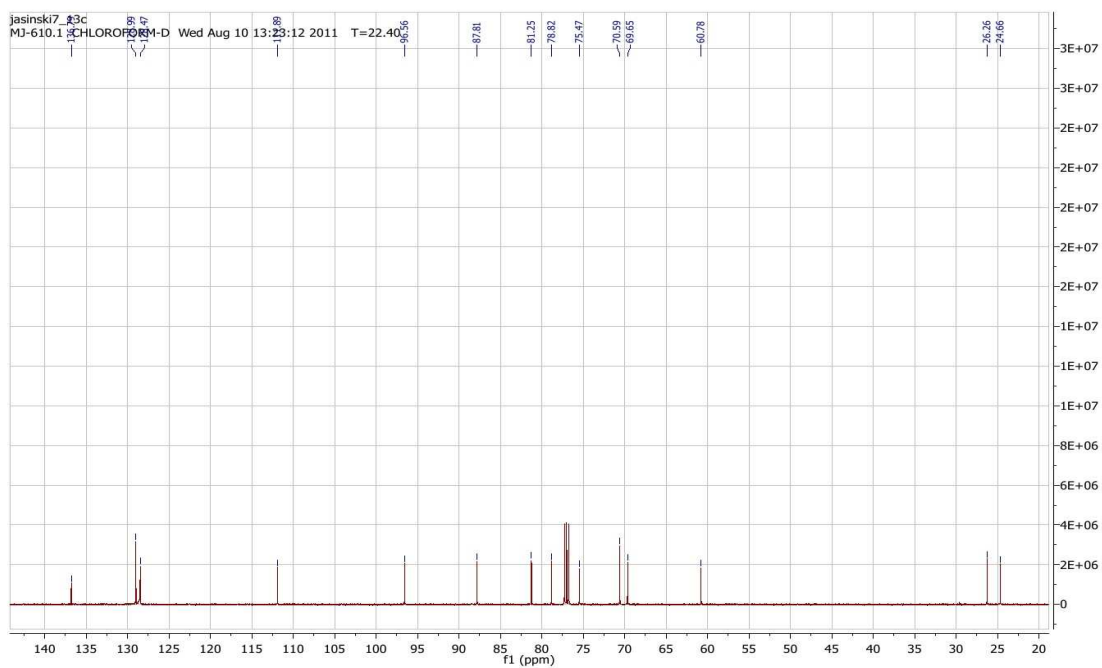
## Compound 9:



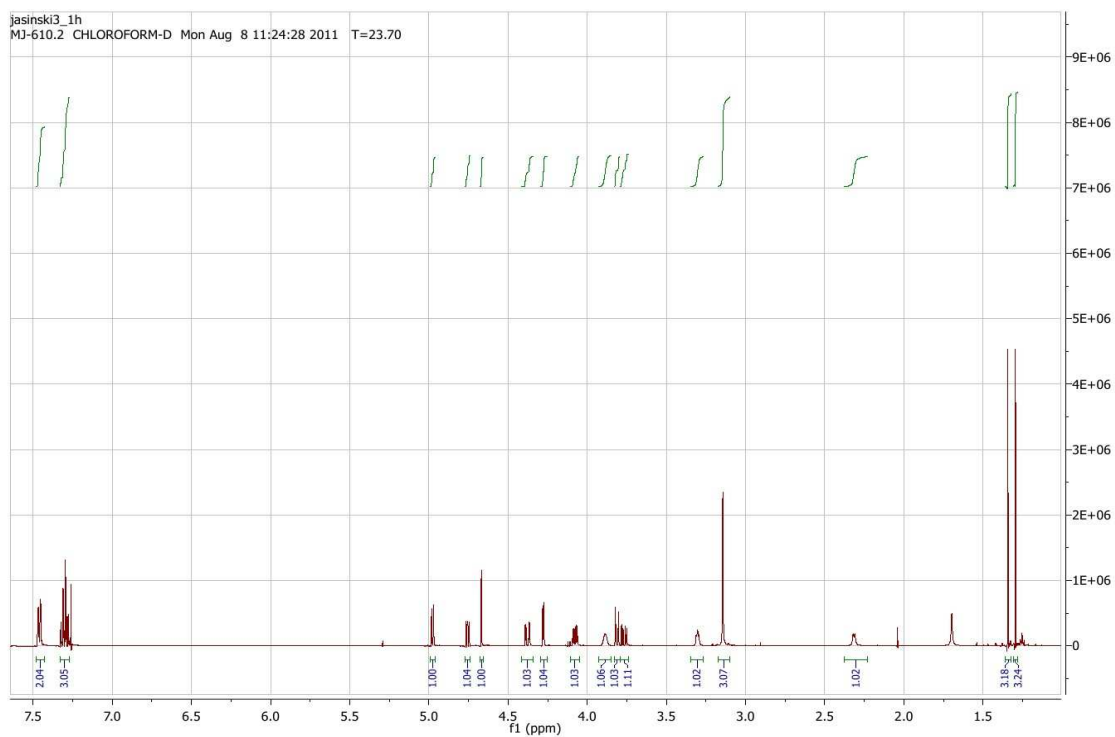
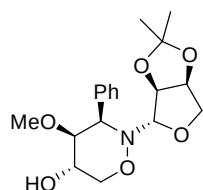


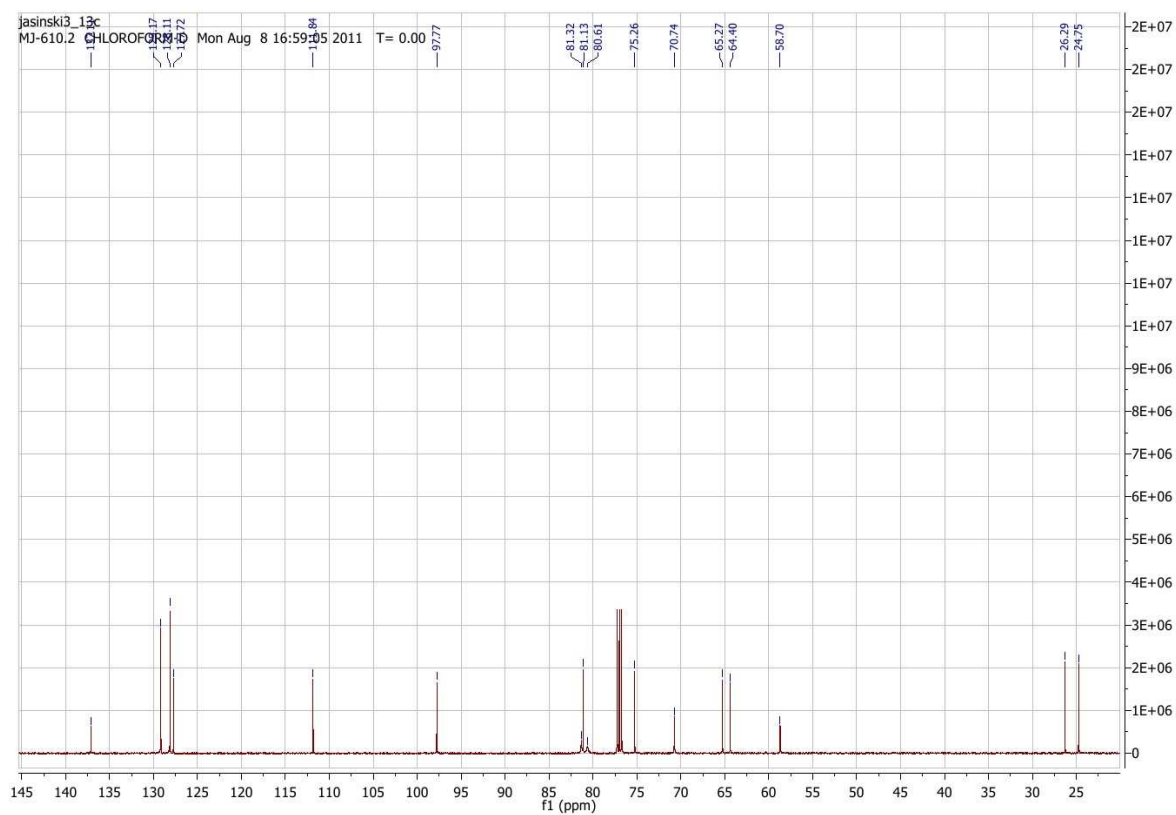
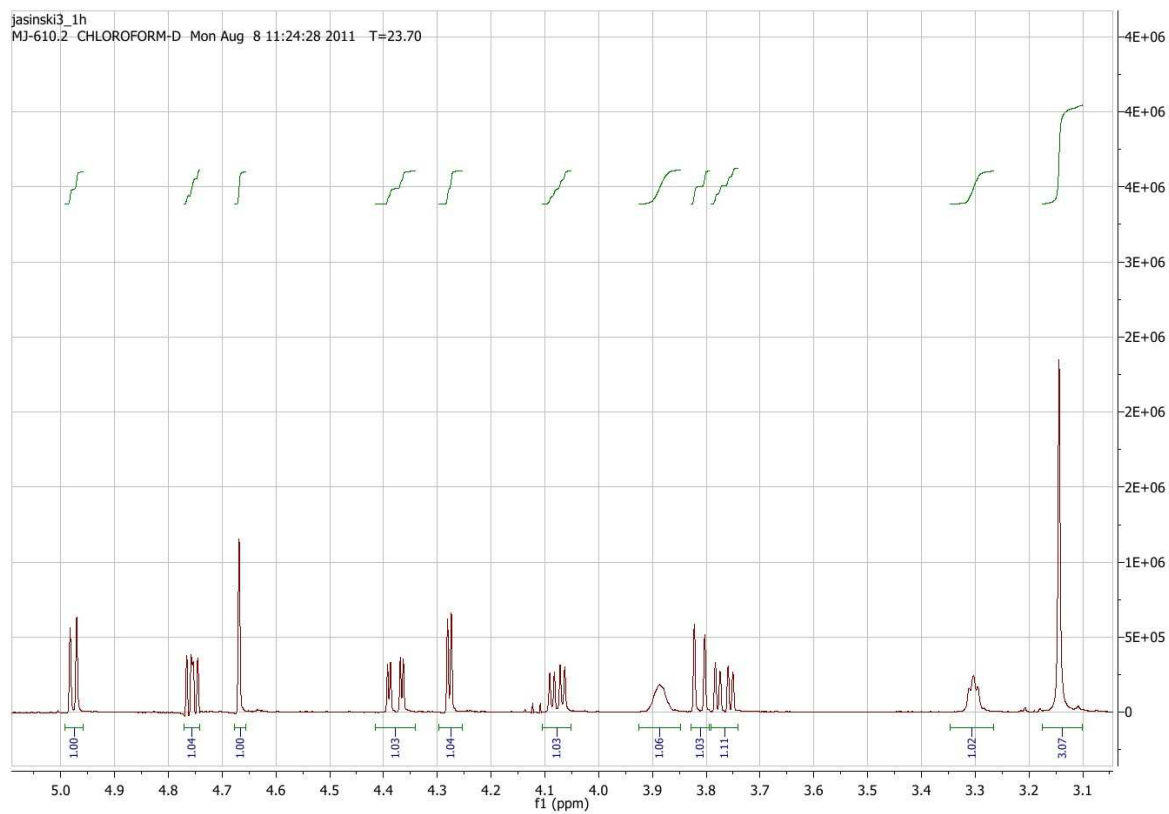
# Compound 10:





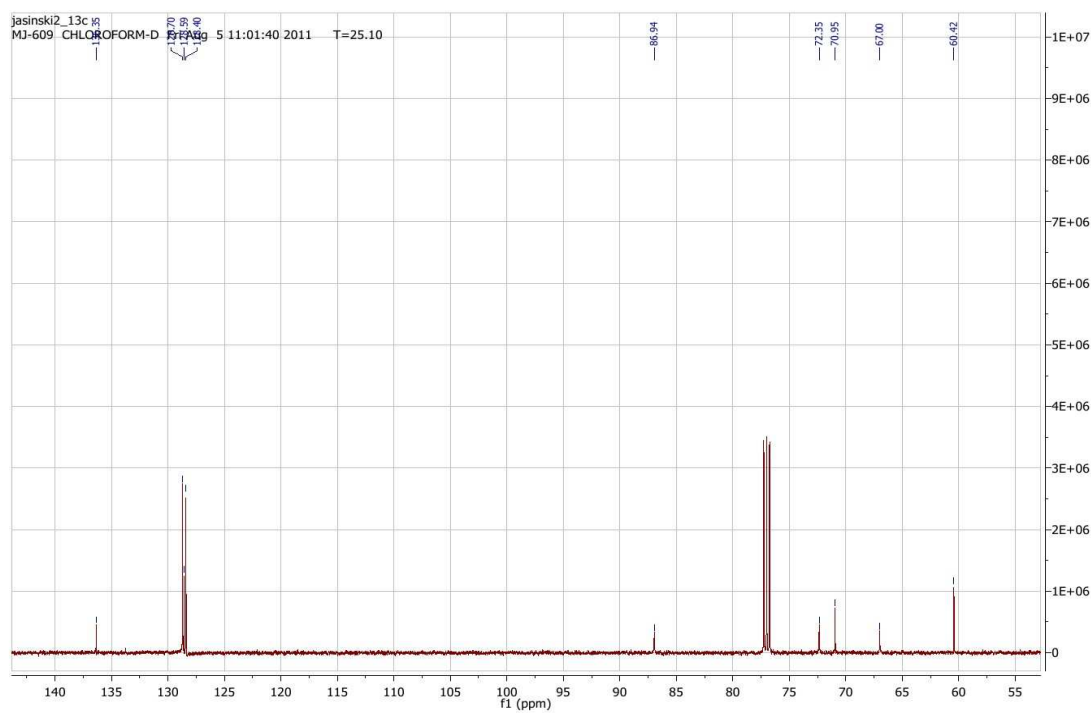
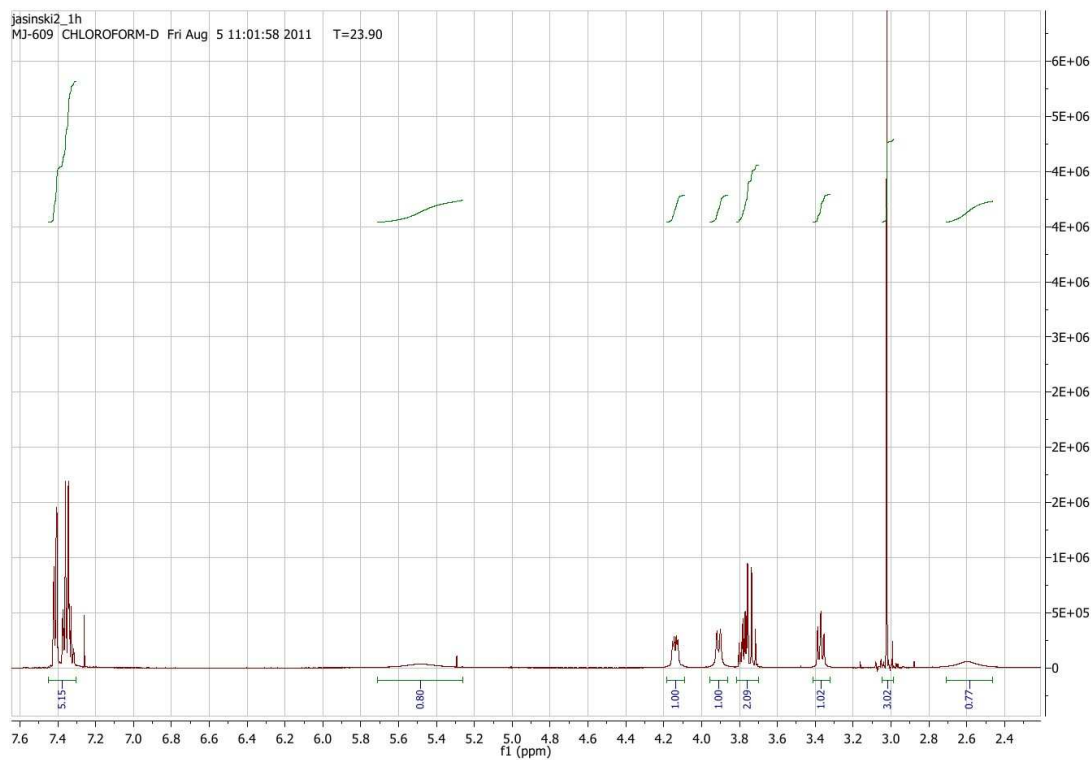
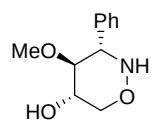
## Compound 11:



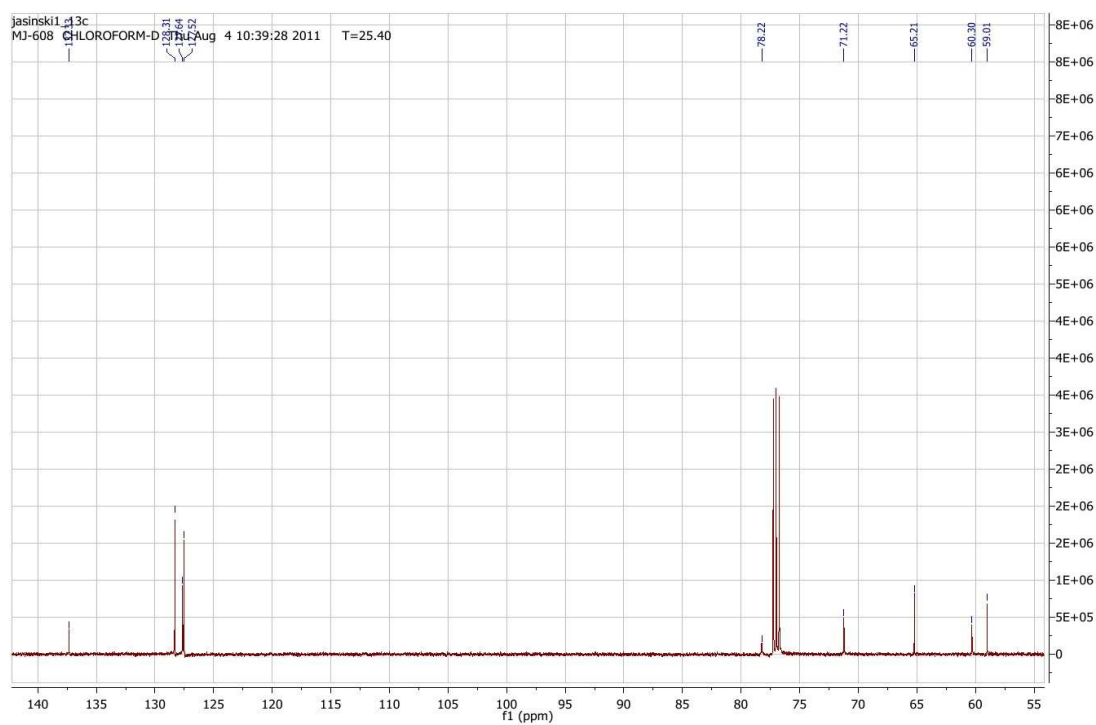
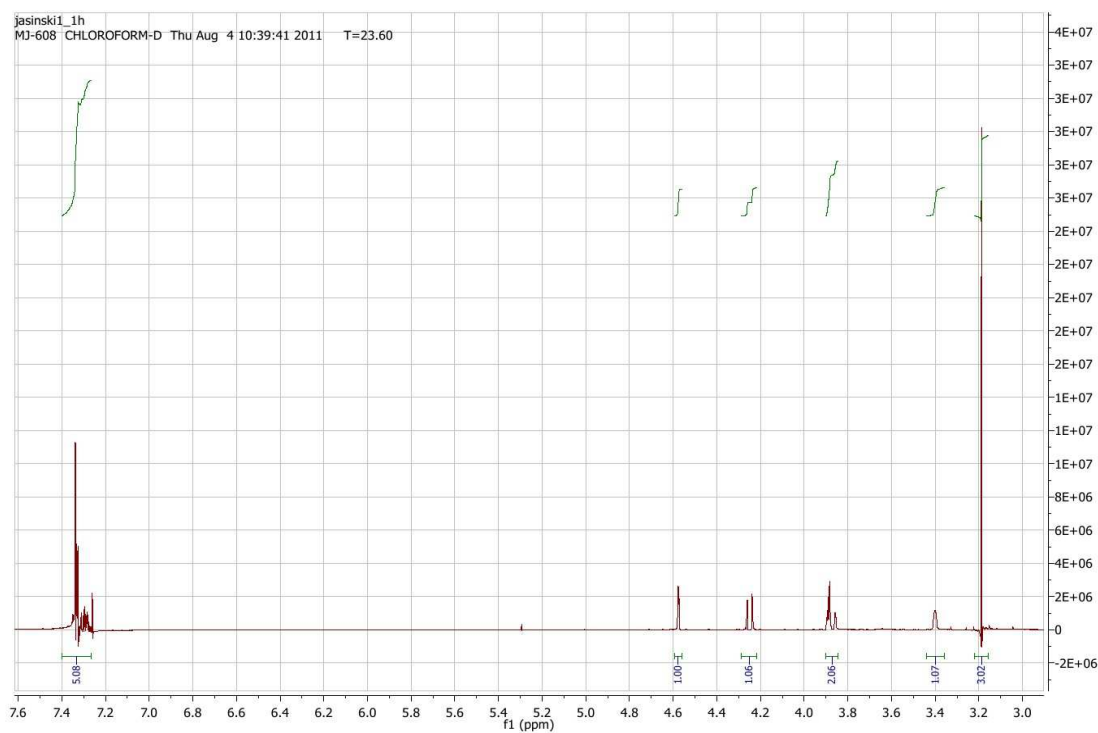
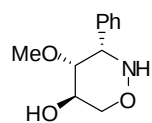




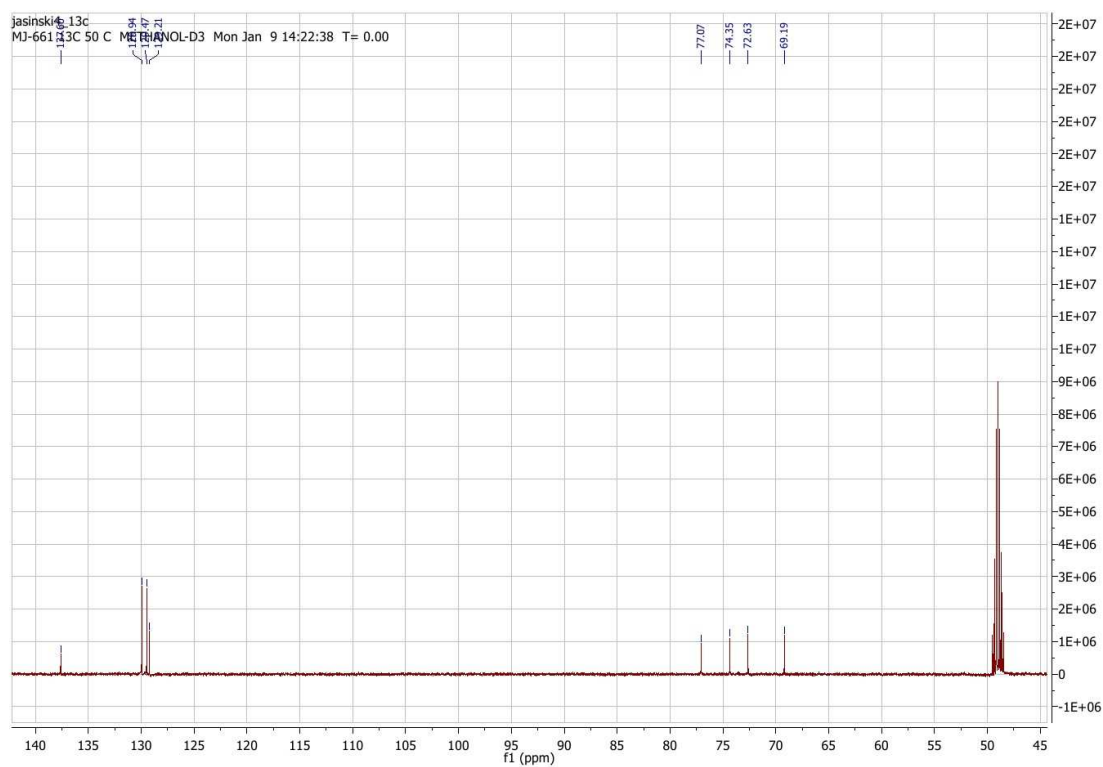
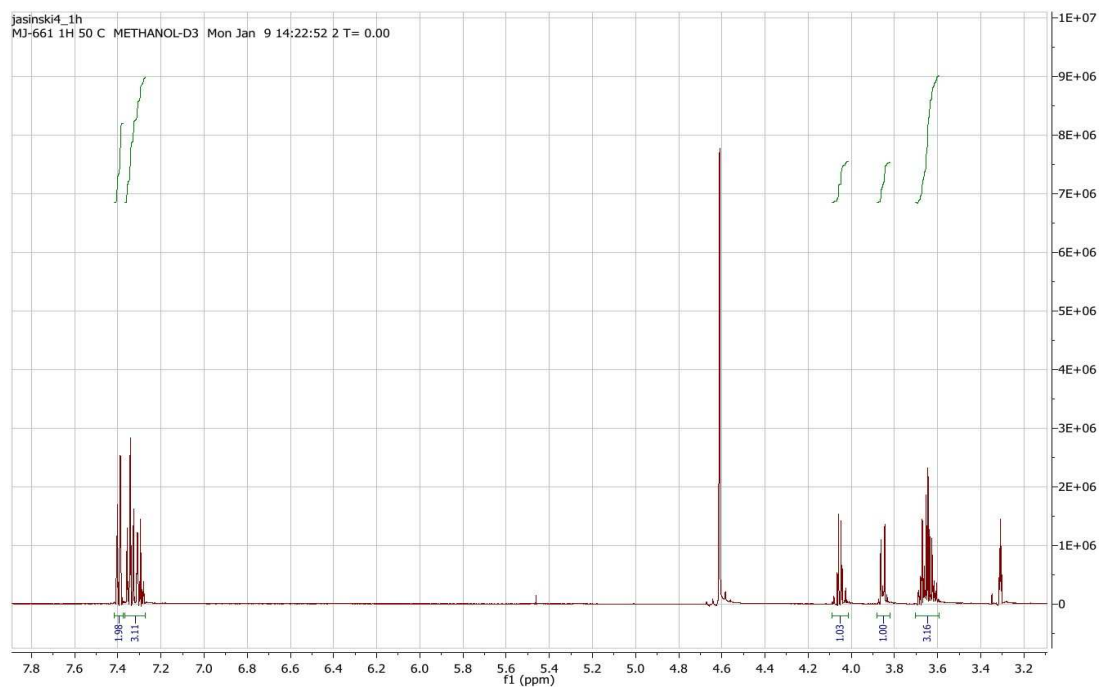
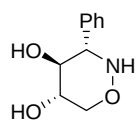
## Compound 12:



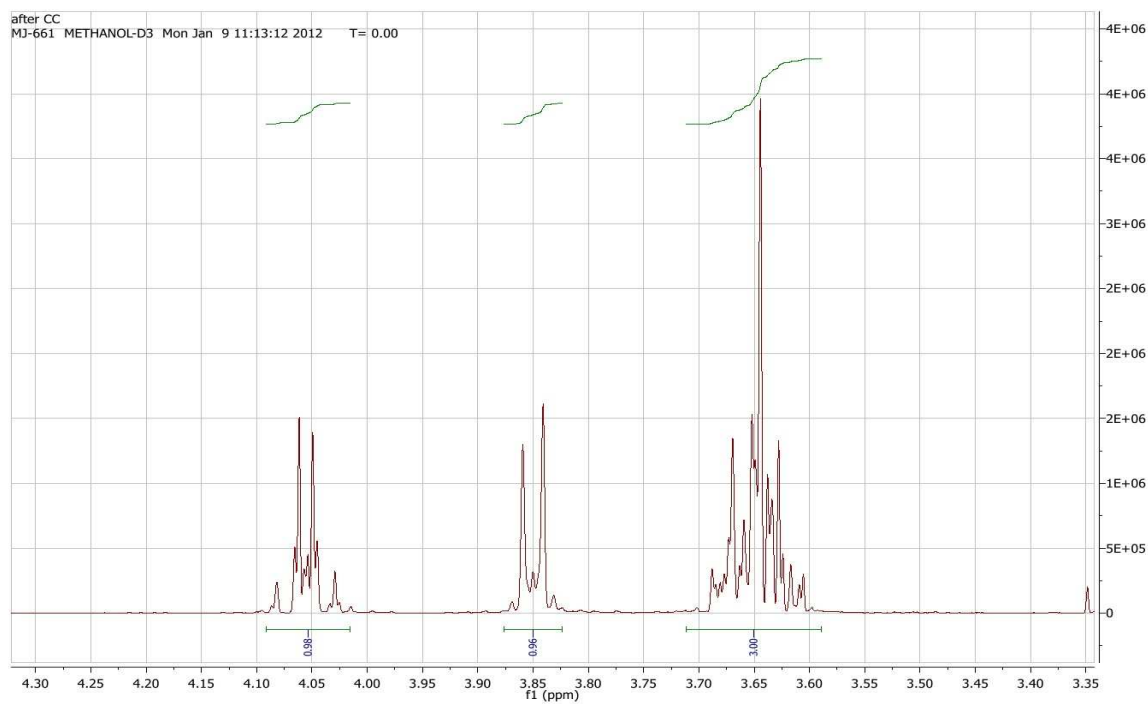
## Compound 13:



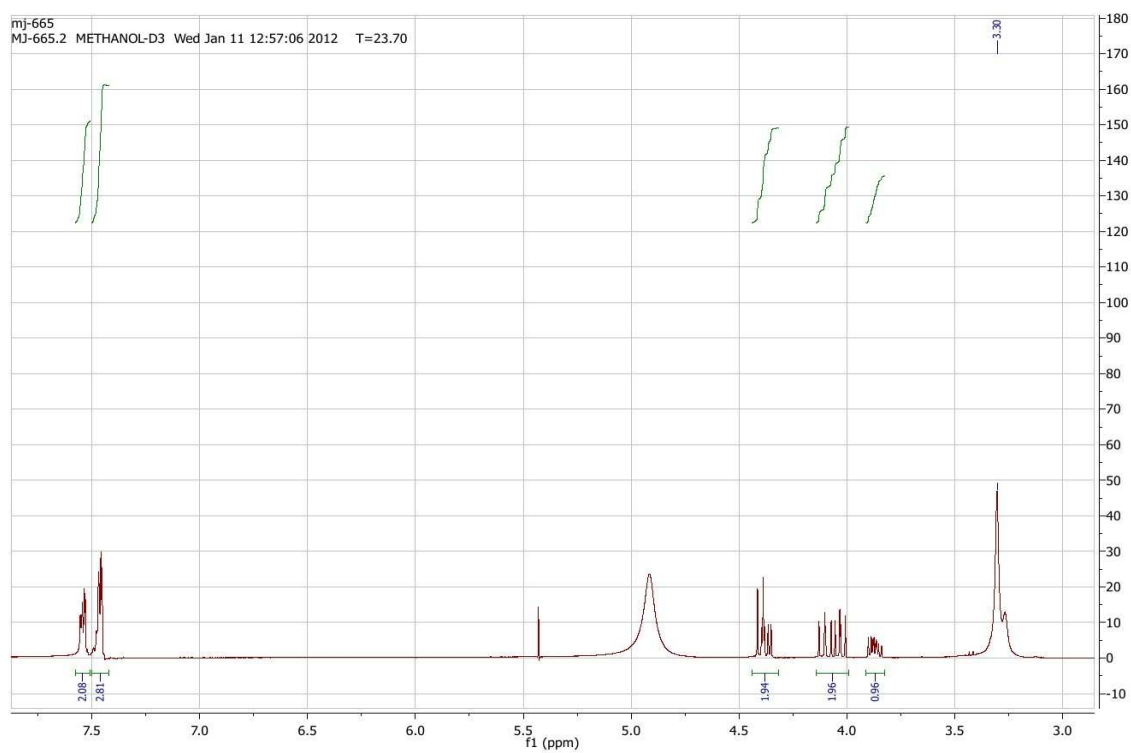
## Compound 14:

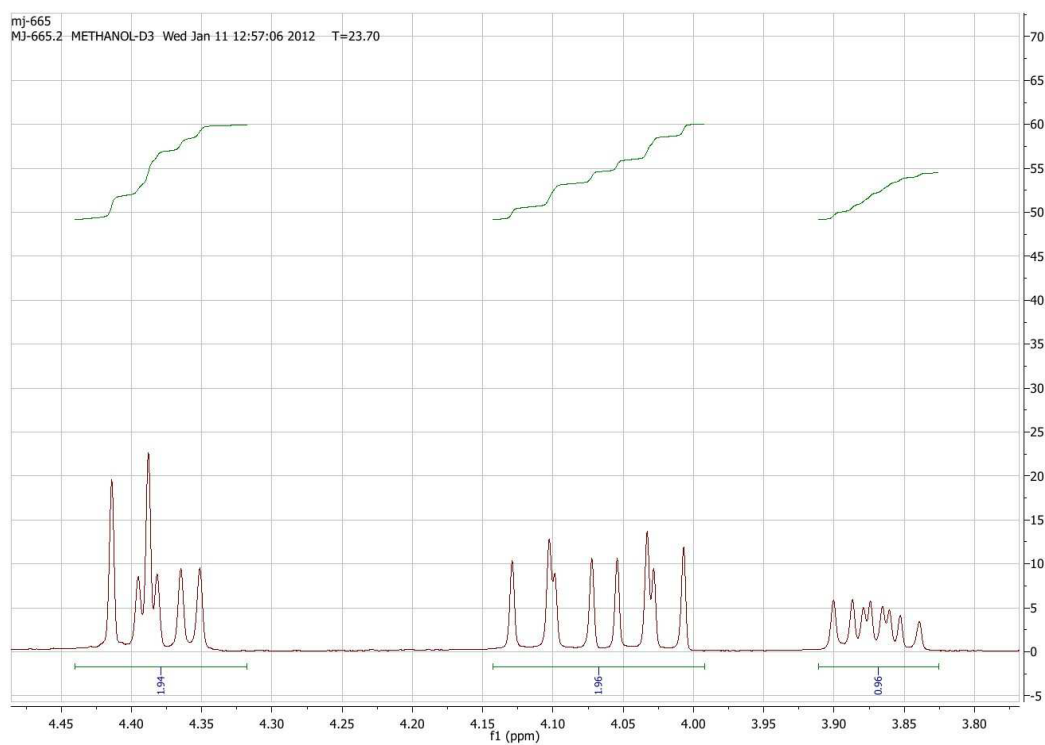


Diagnostic part of the  $^1\text{H}$  NMR spectrum of **14** measured at room temperature

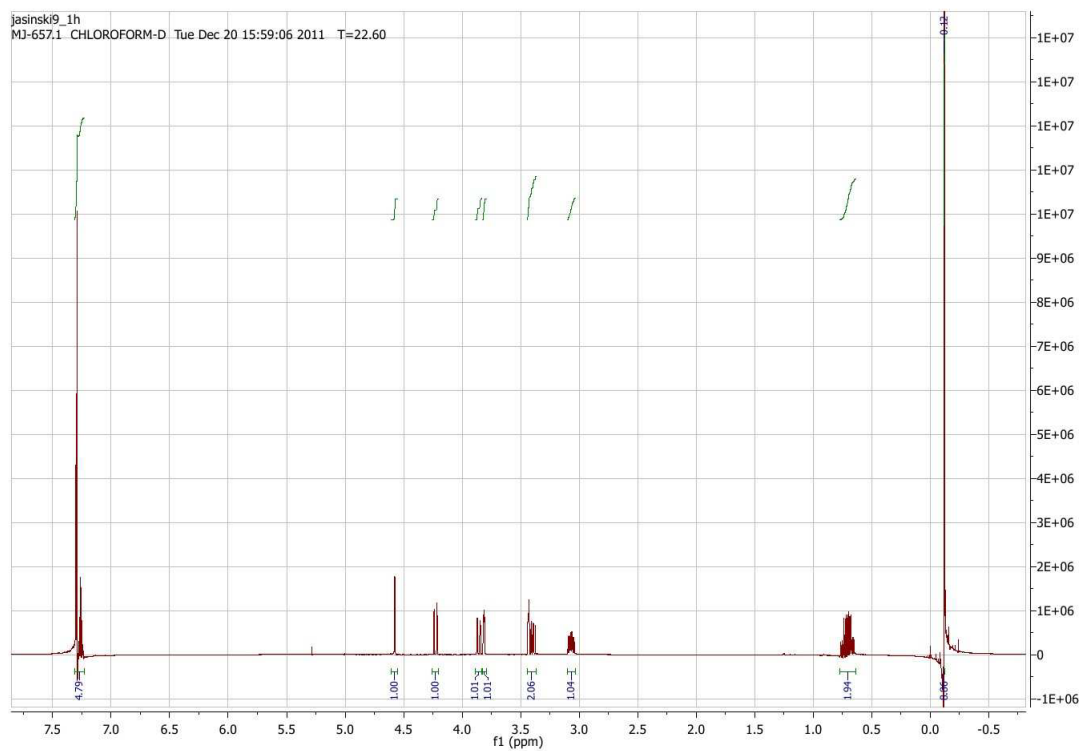
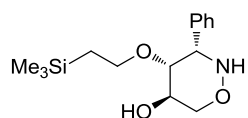


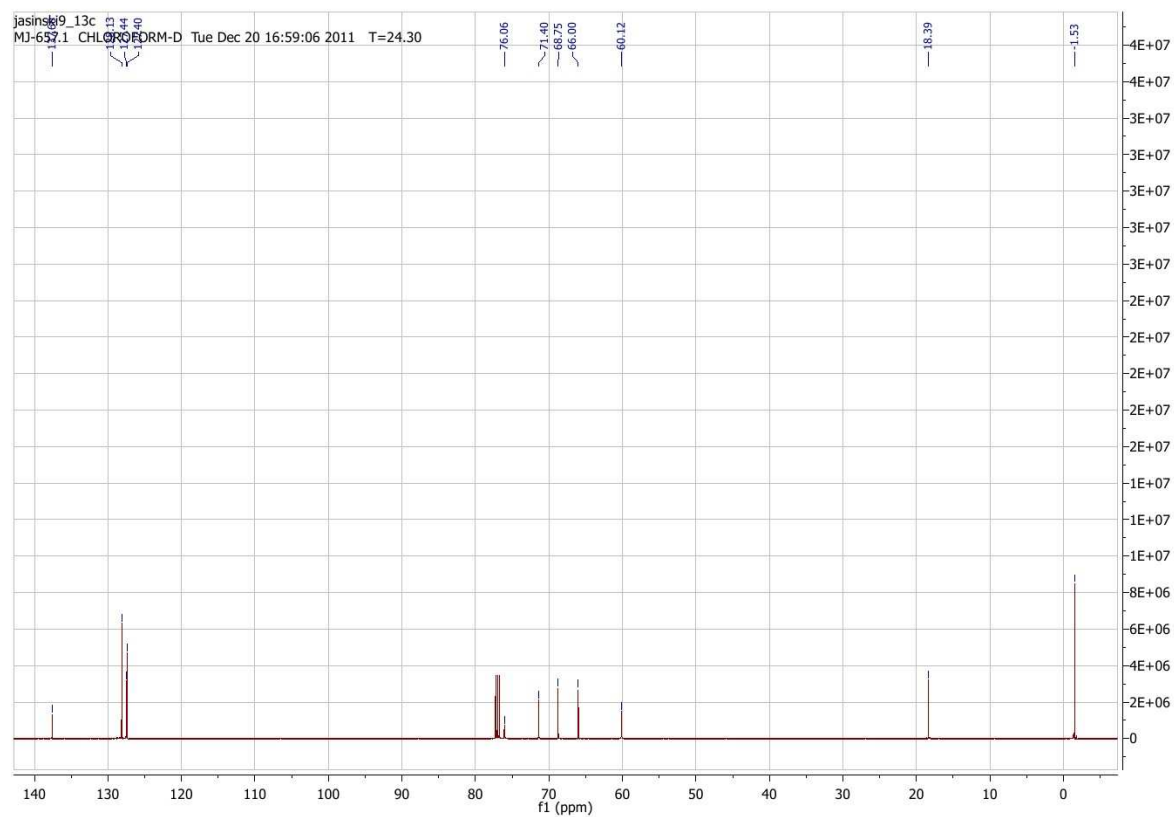
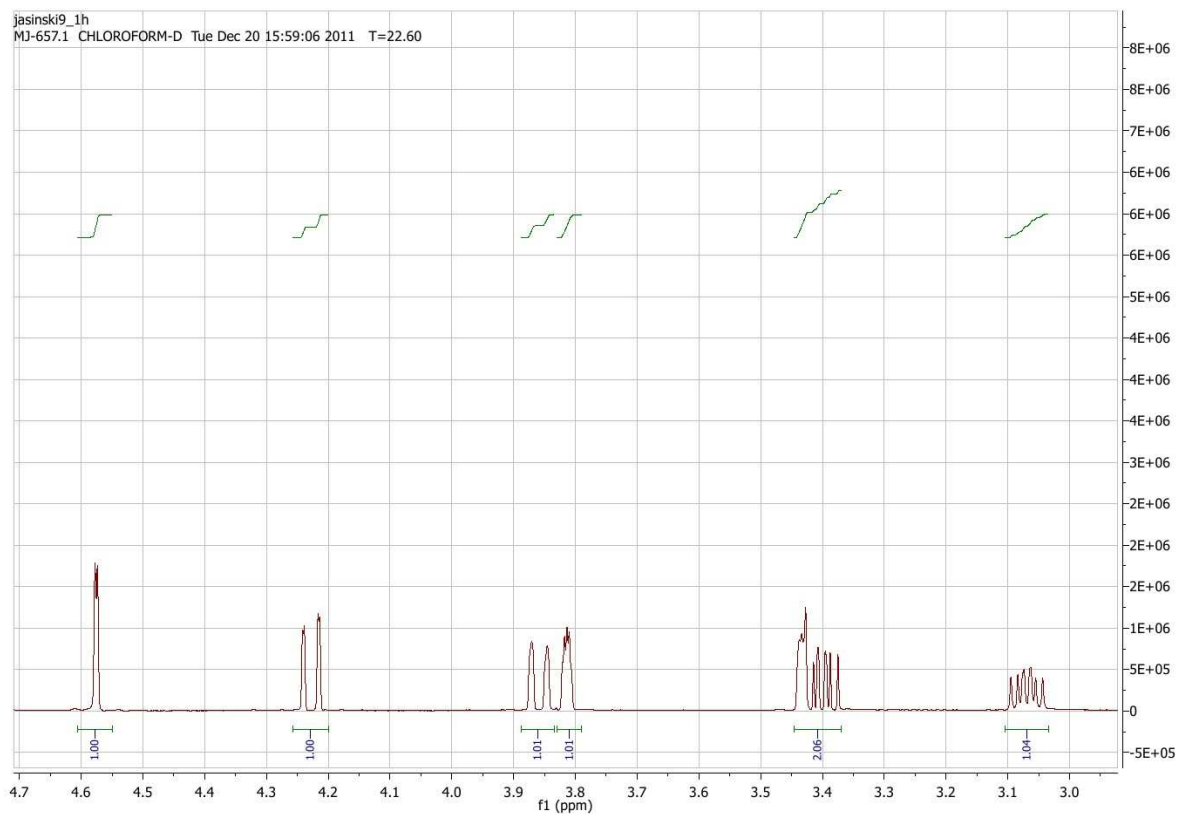
$^1\text{H}$  NMR spectrum of **14** taken in the presence of  $\text{BBr}_3$



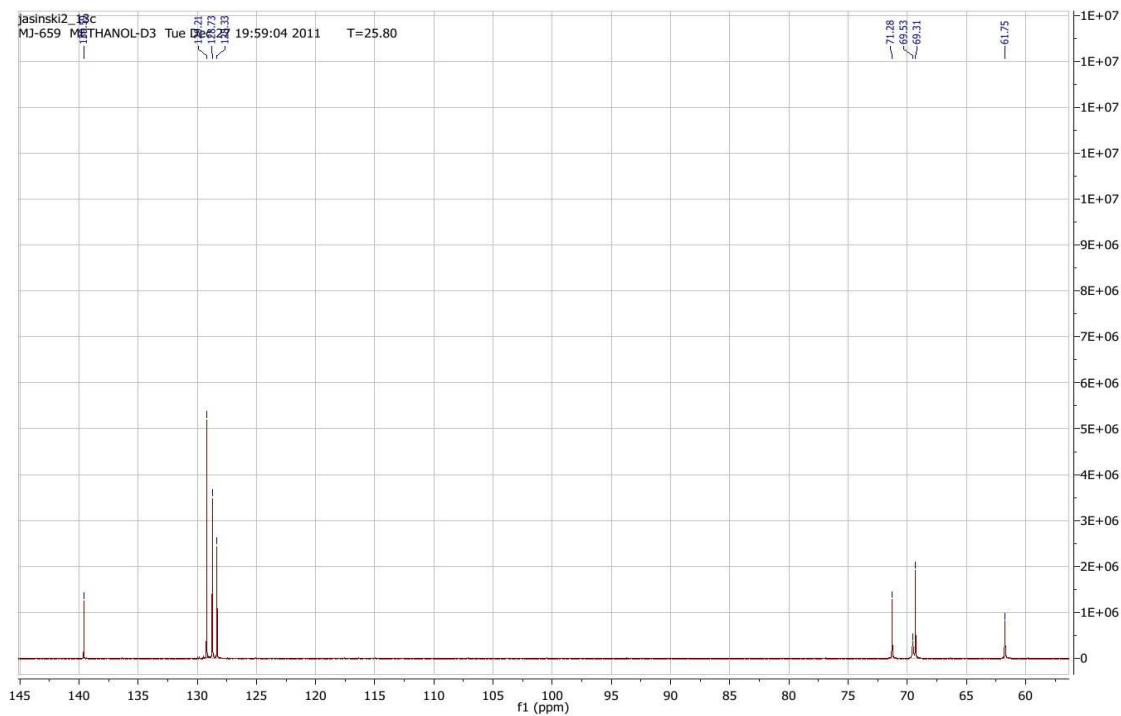
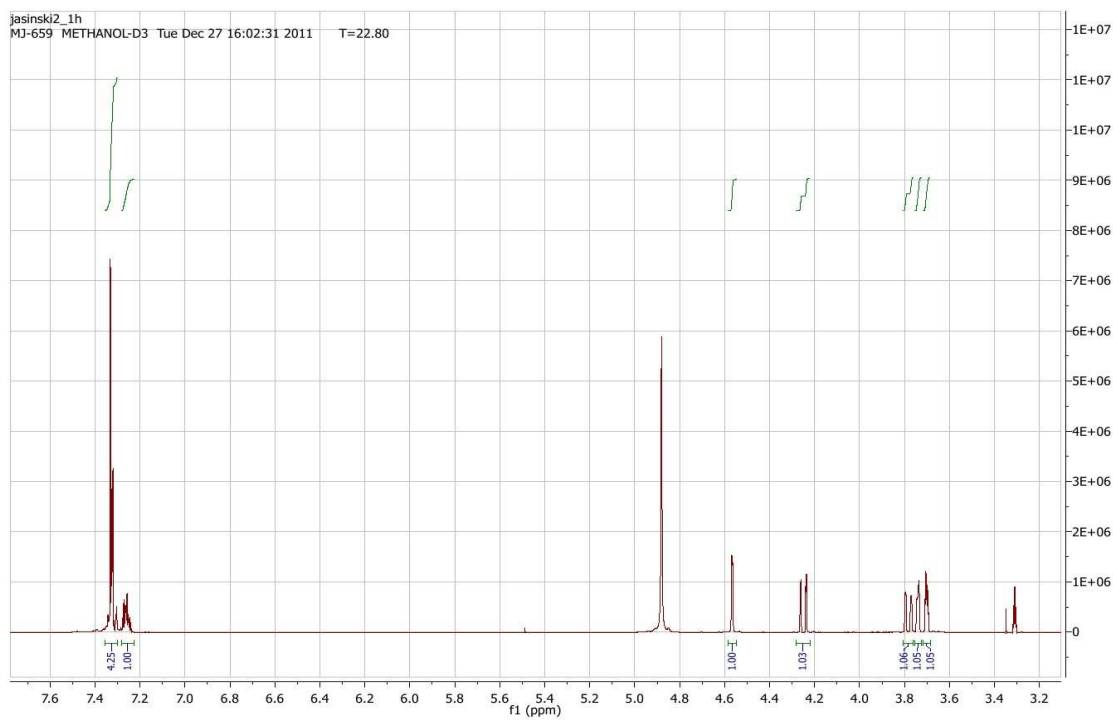
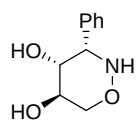


**(3S,4R,5R)-3-Phenyl-4-(2-trimethylsilylethoxy)-[1,2]oxazinan-5-ol**

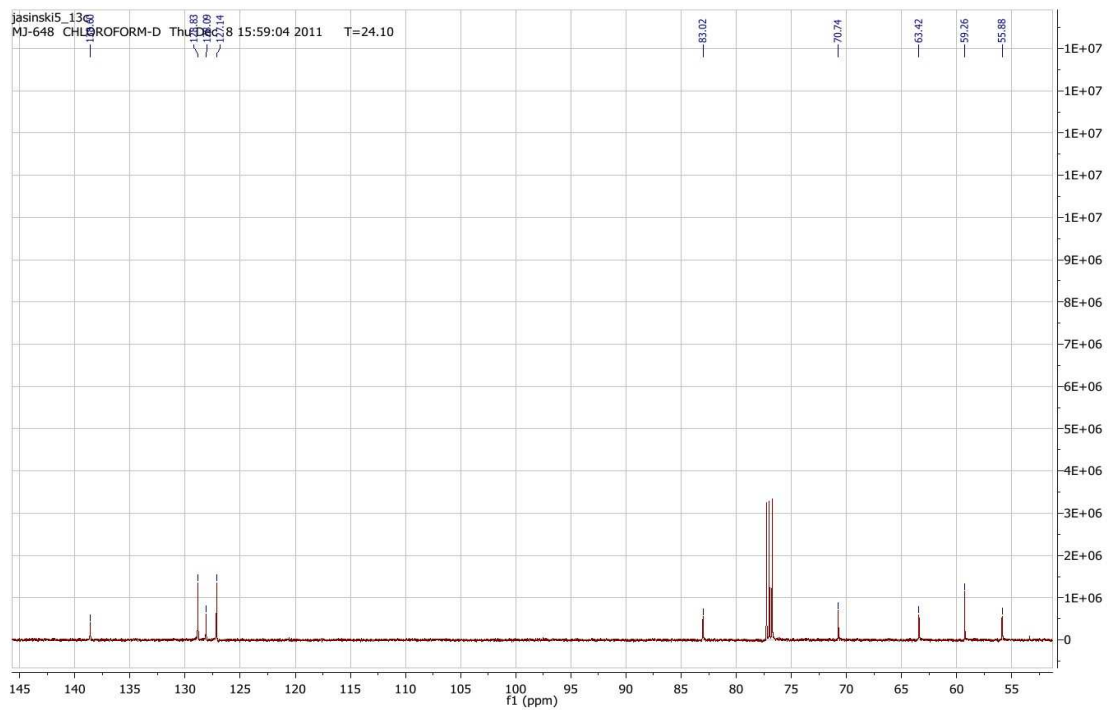
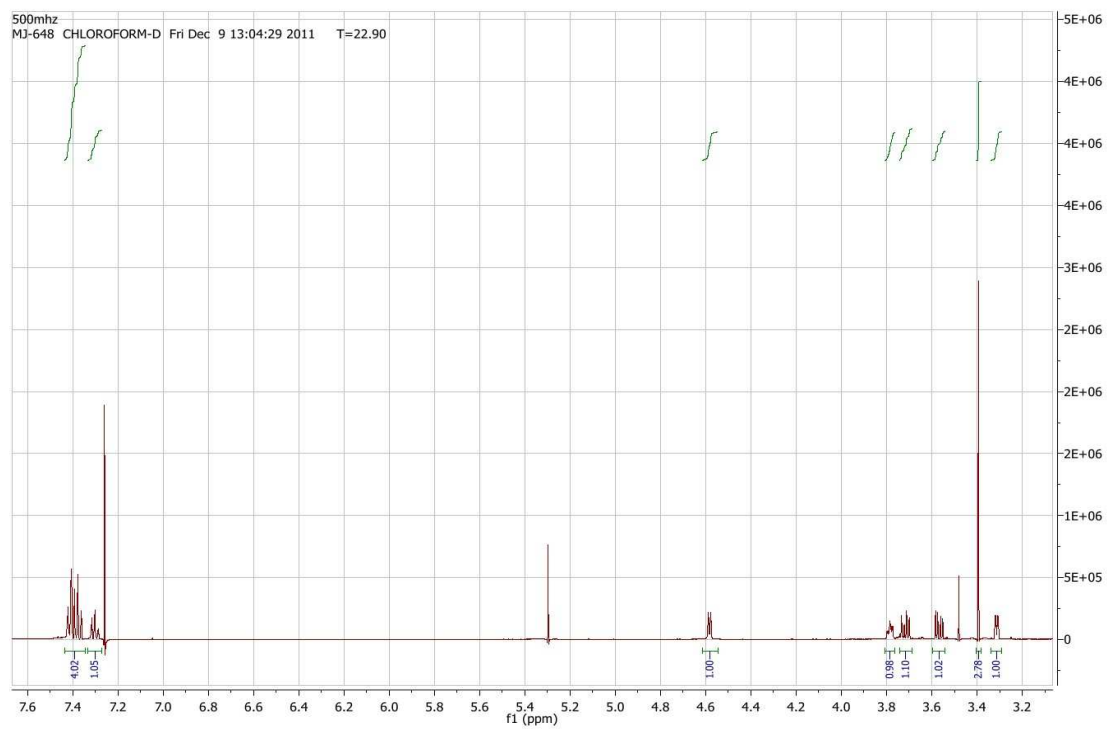
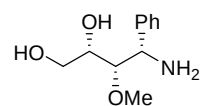




## Compound 15:

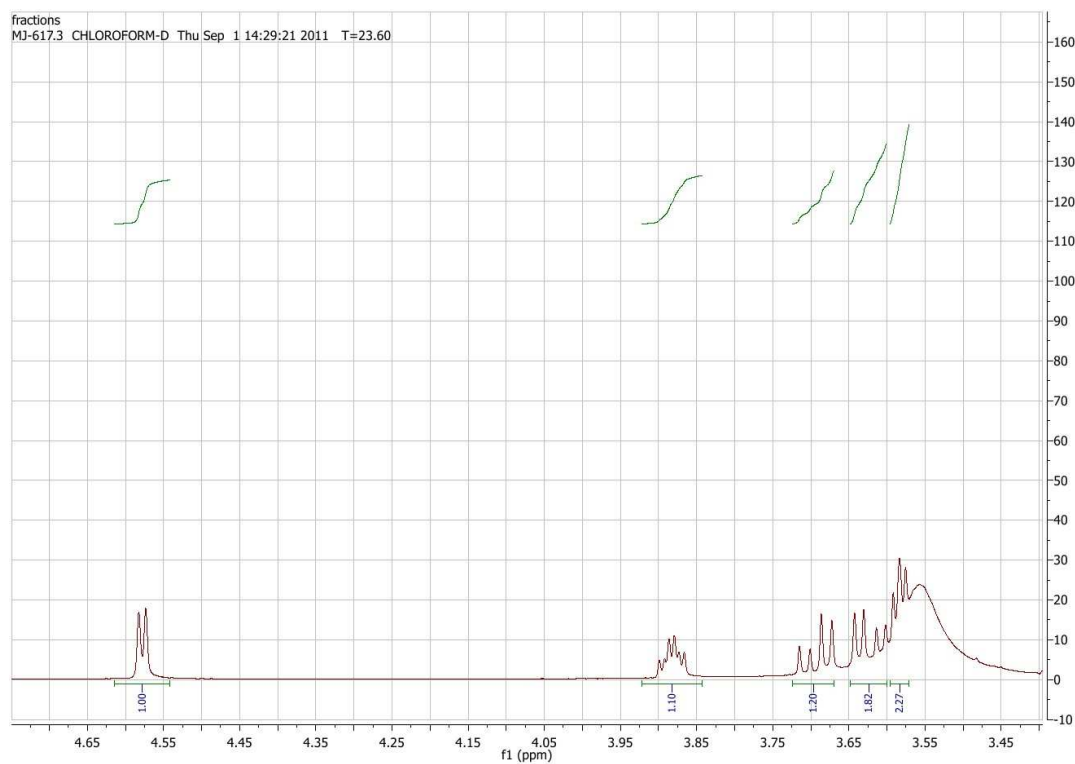
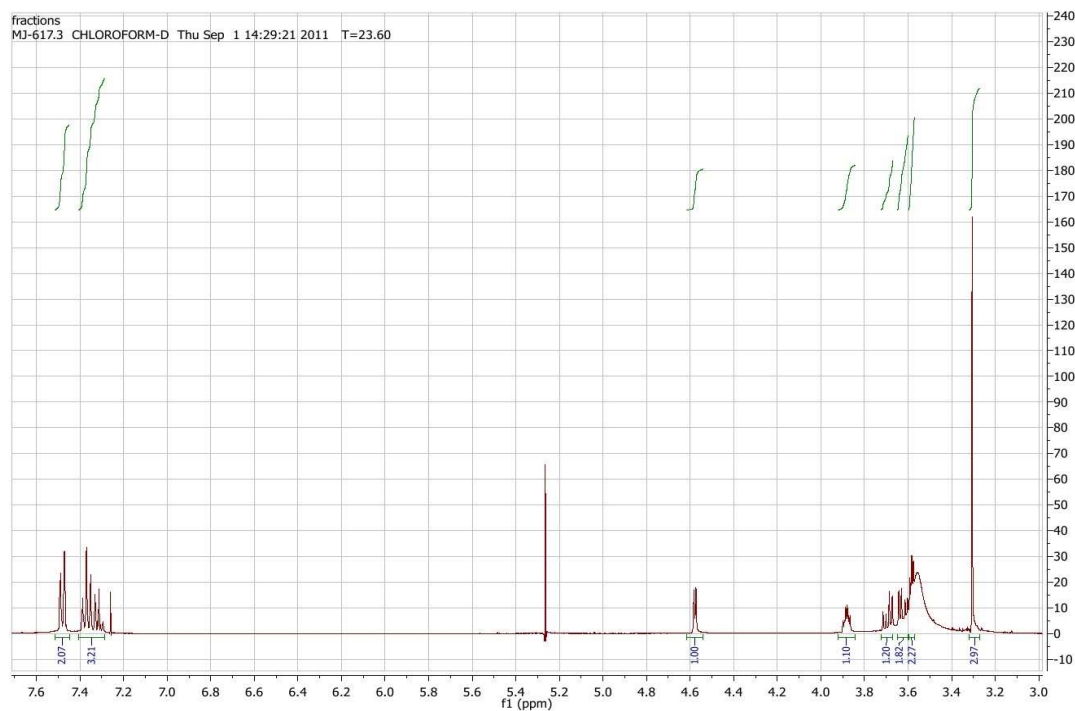
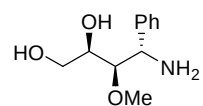


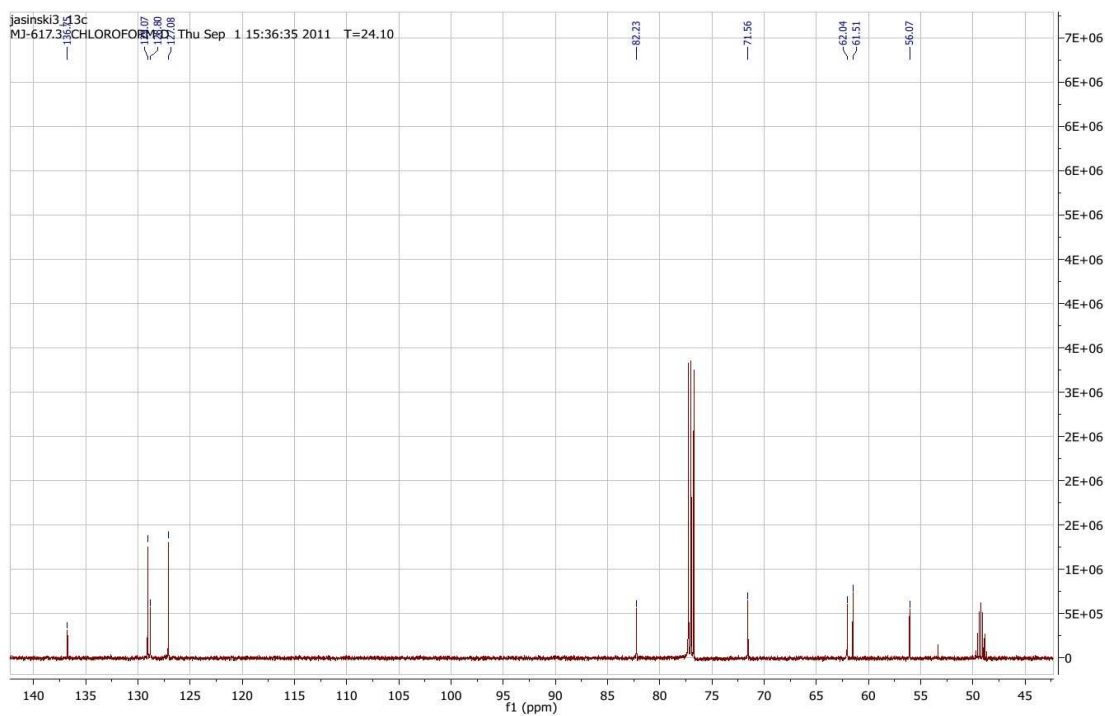
# Compound 16:



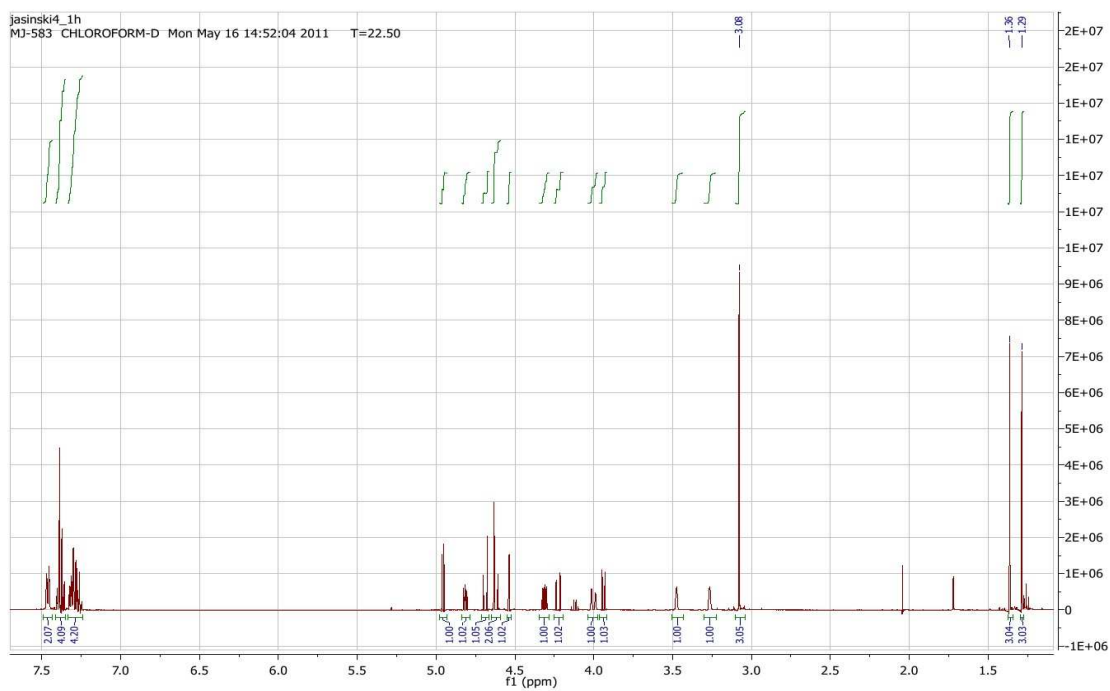
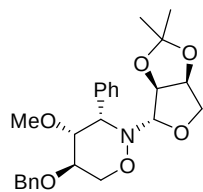


## Compound 17:



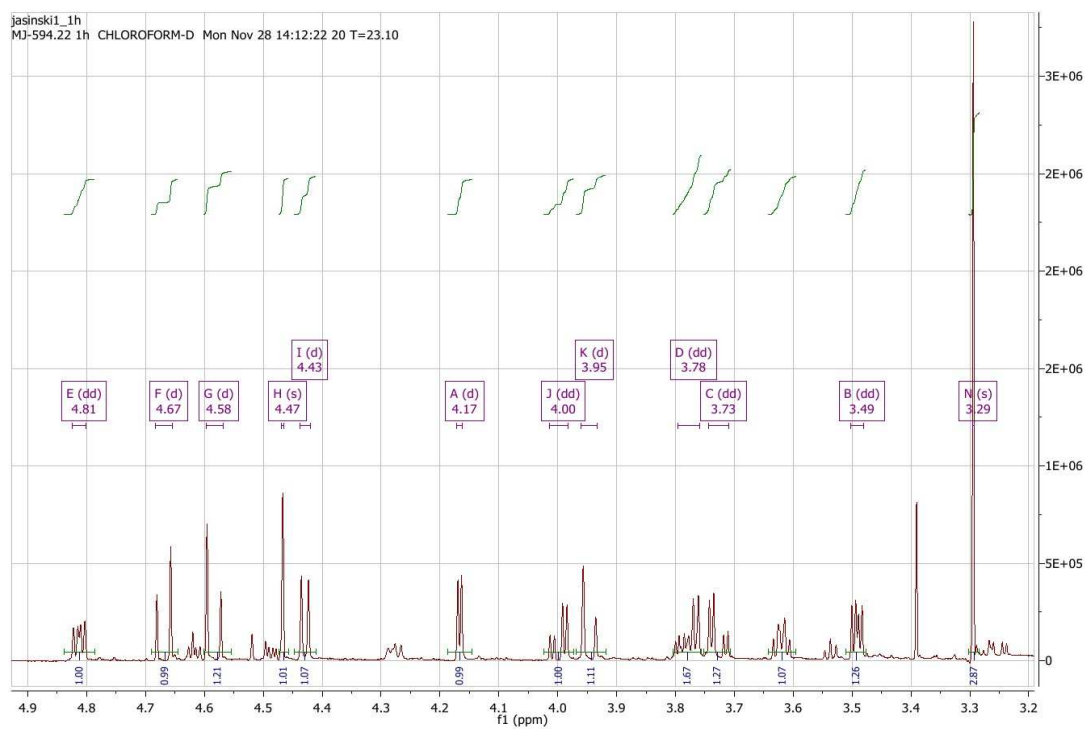
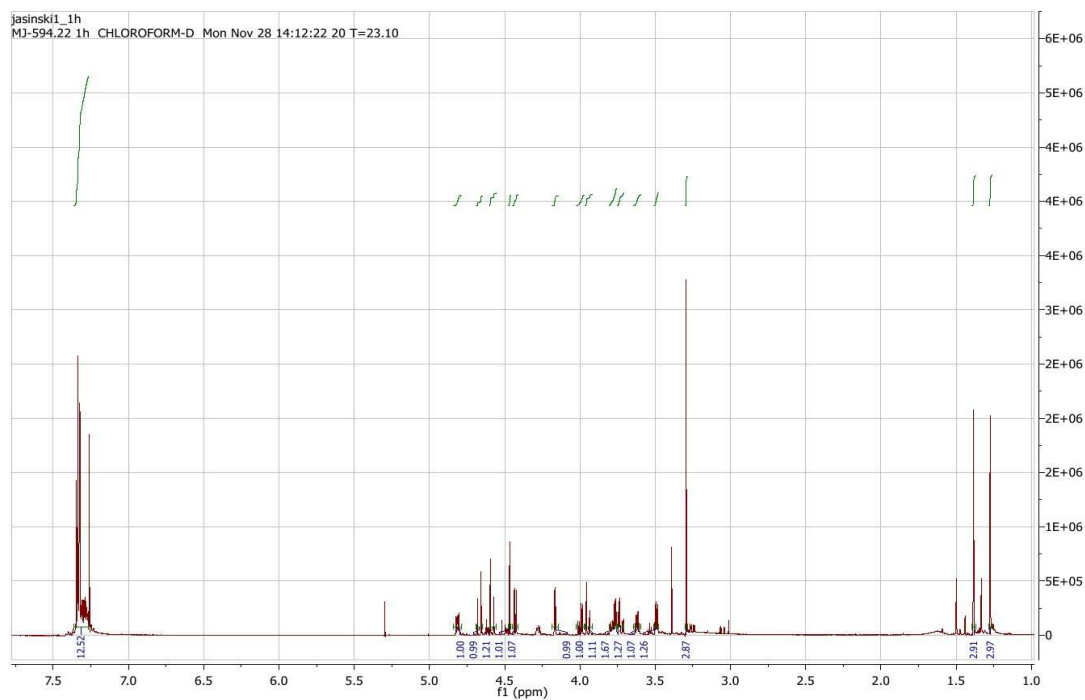
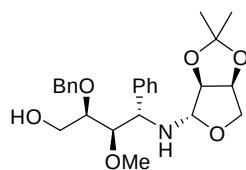


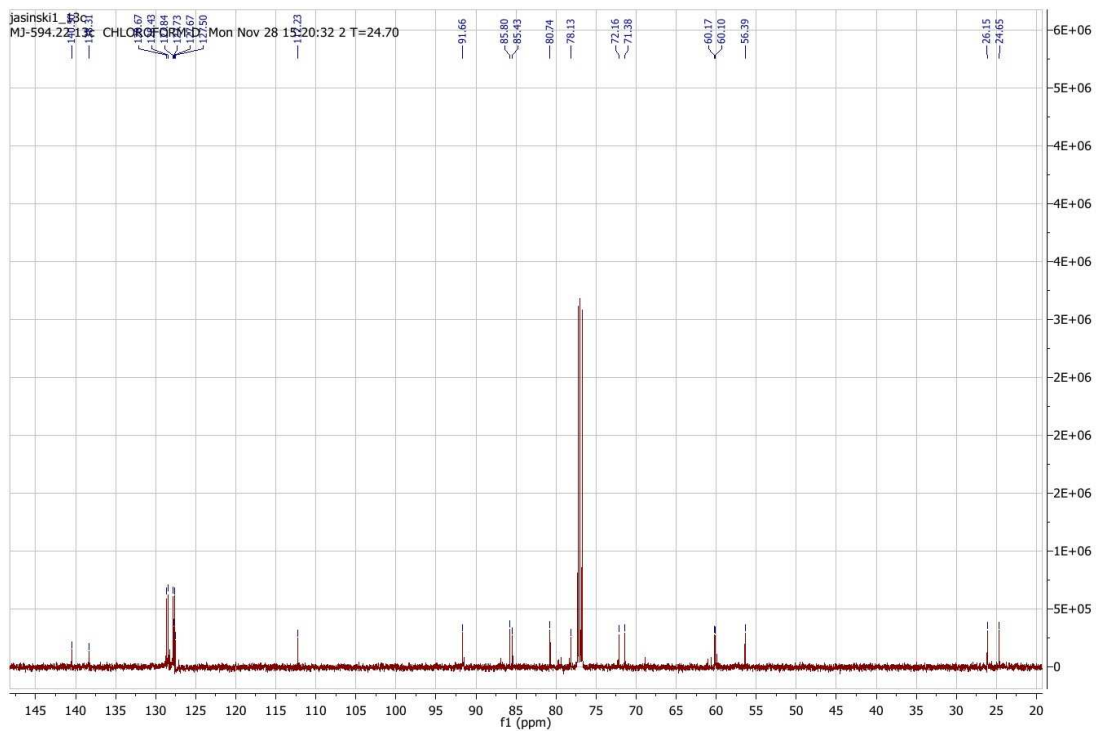
## Compound 18:

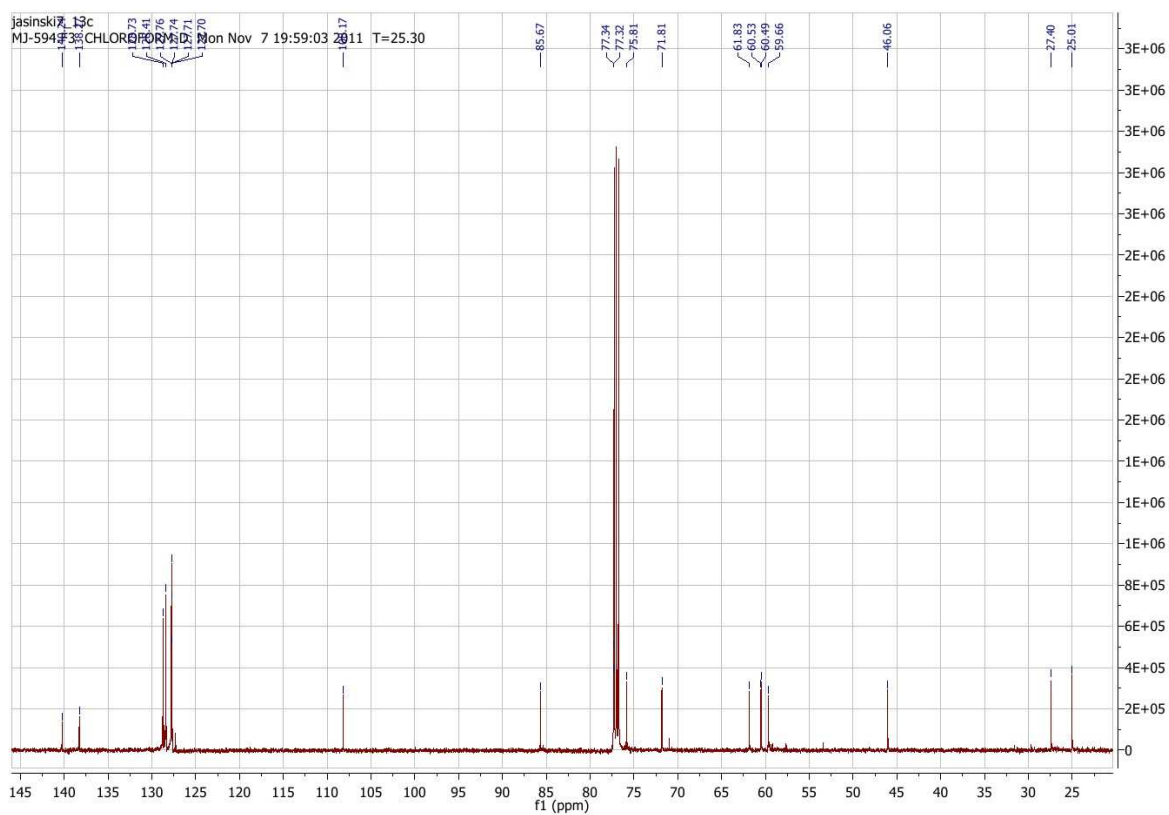
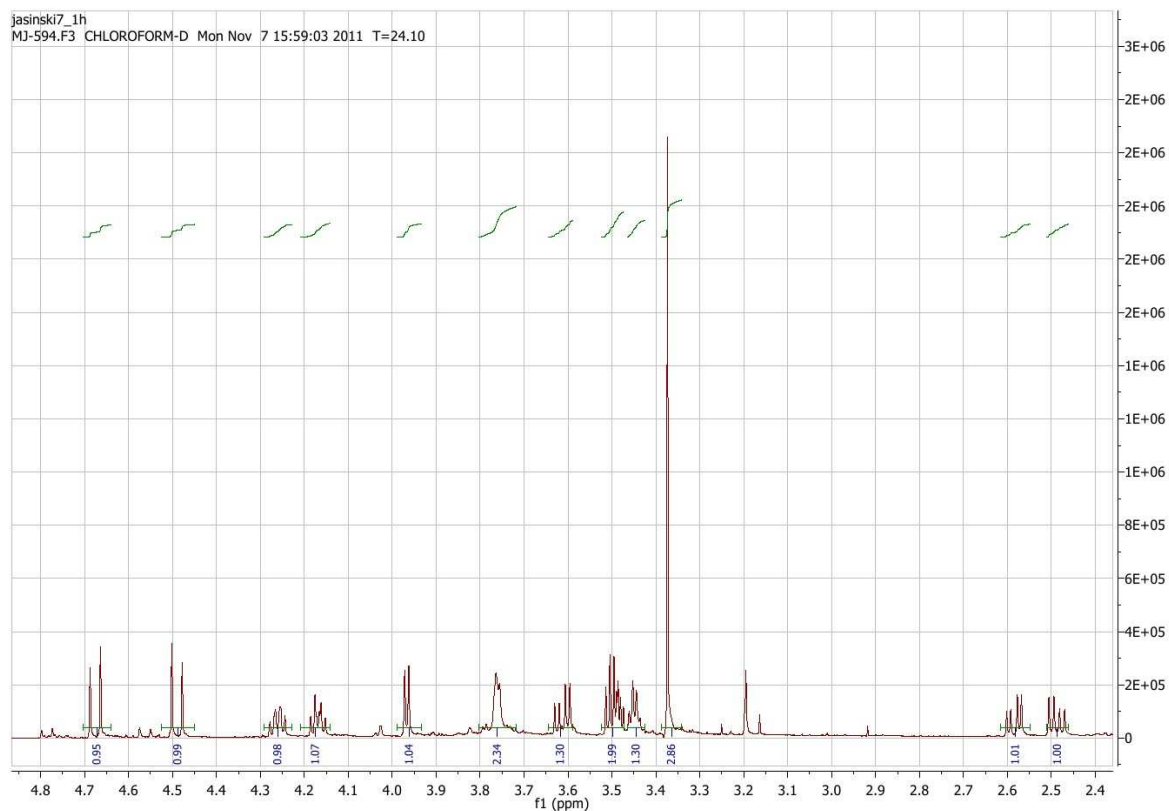




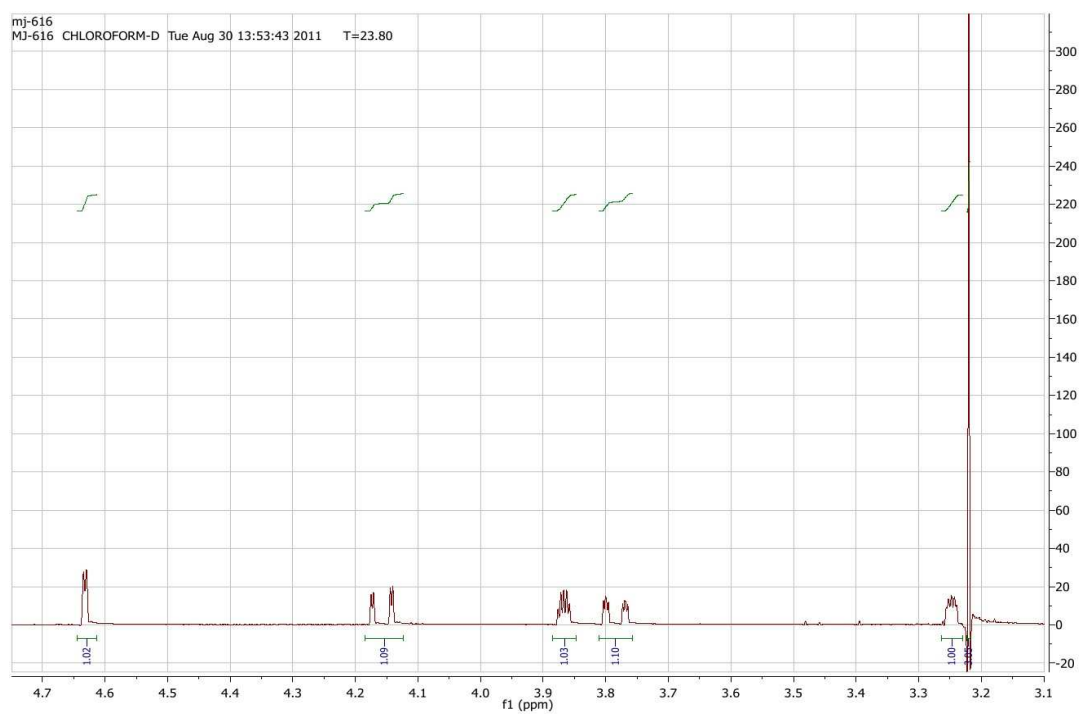
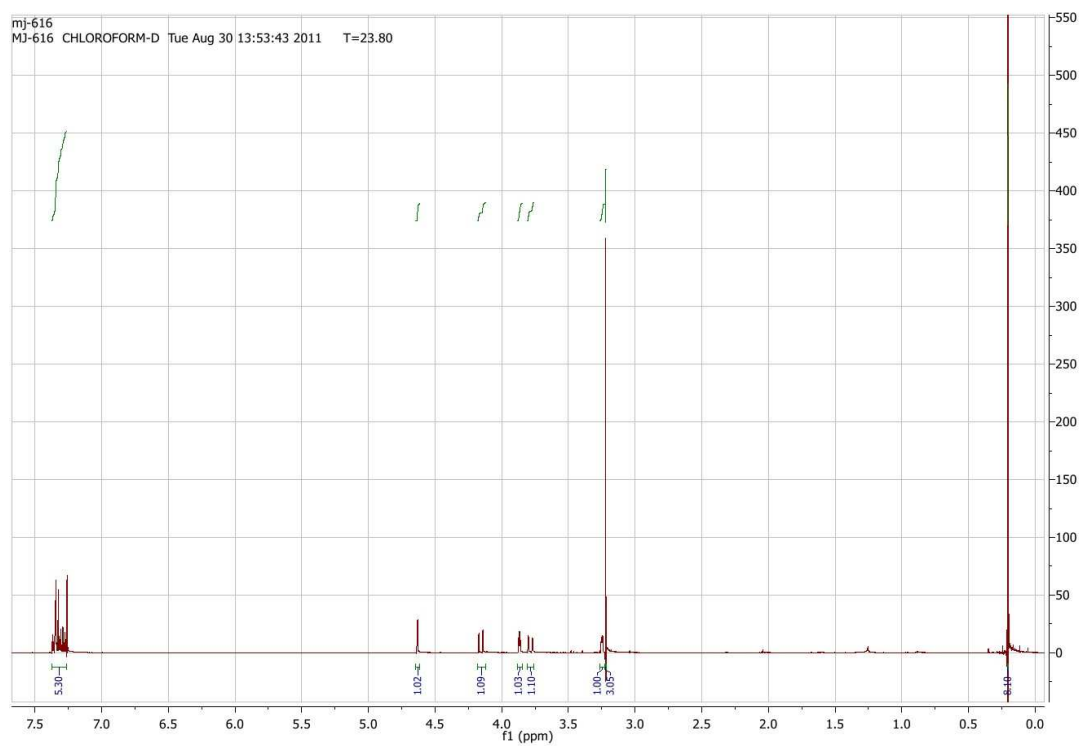
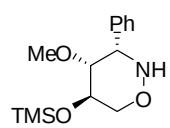
# Compound 19:

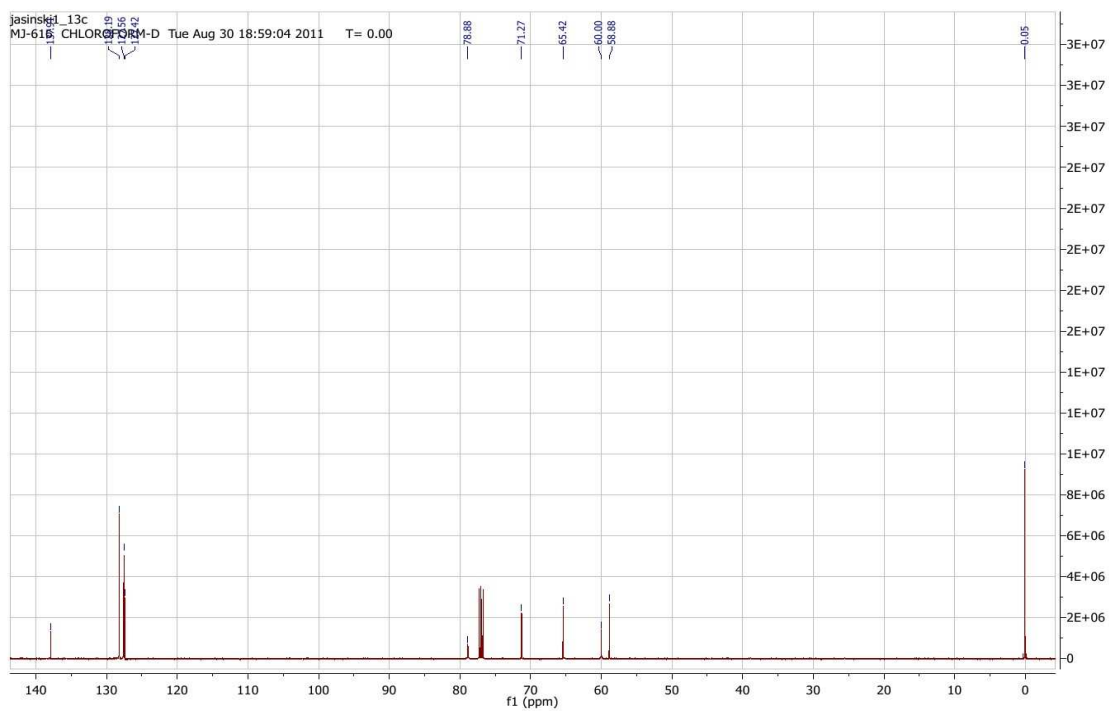




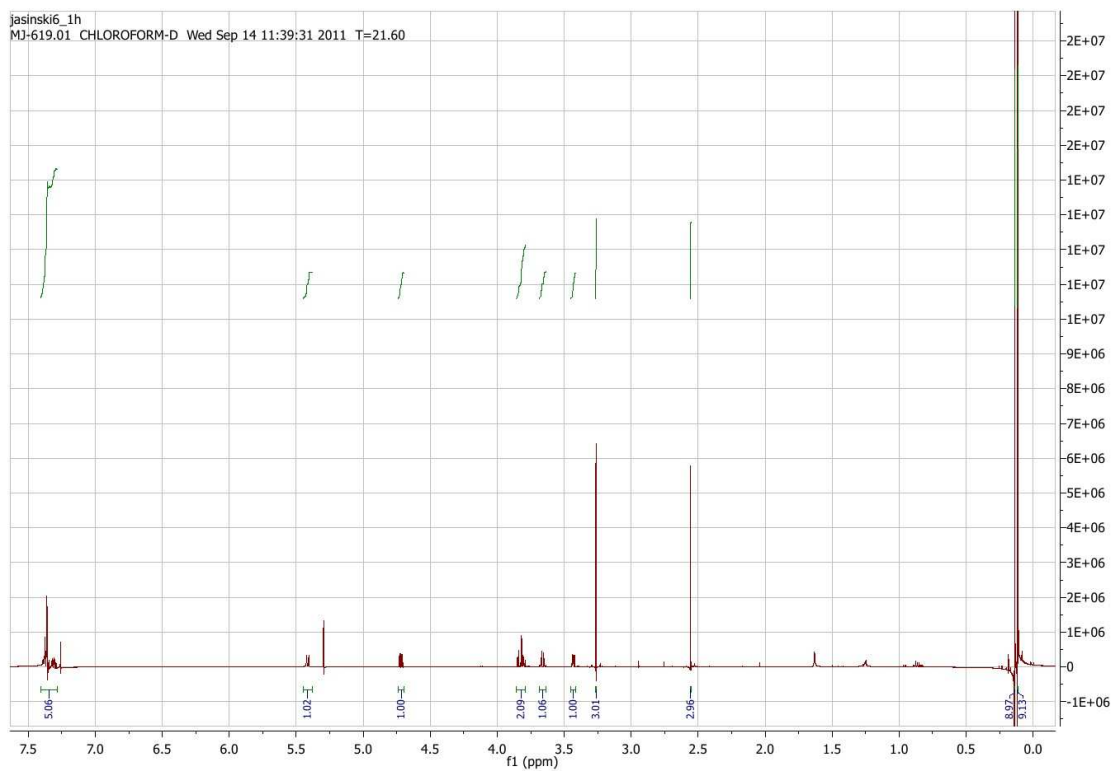
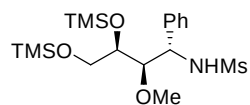


# Compound 21:

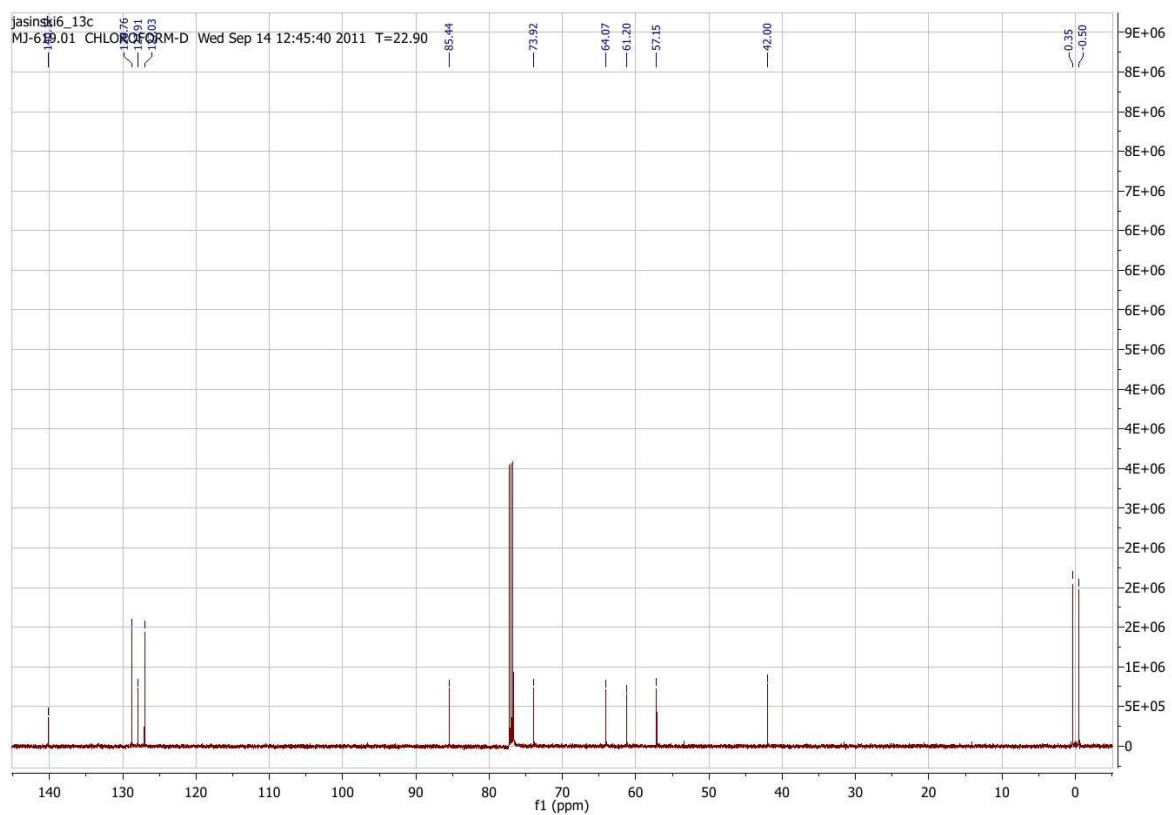
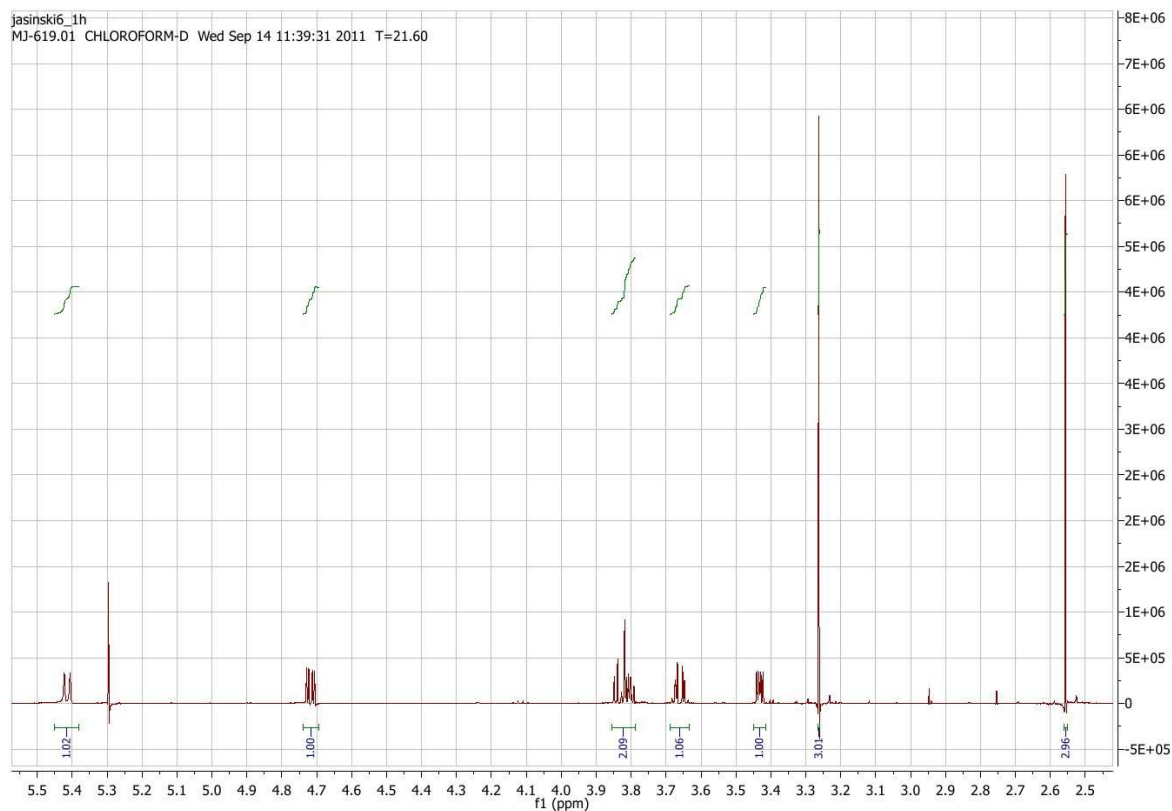




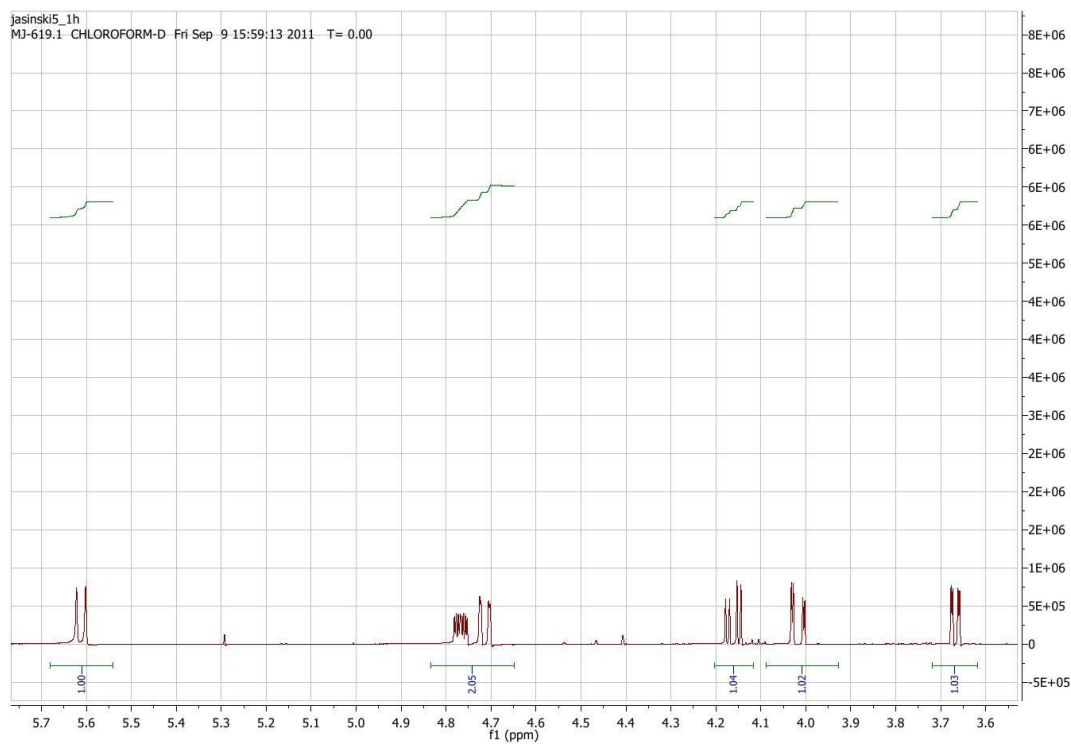
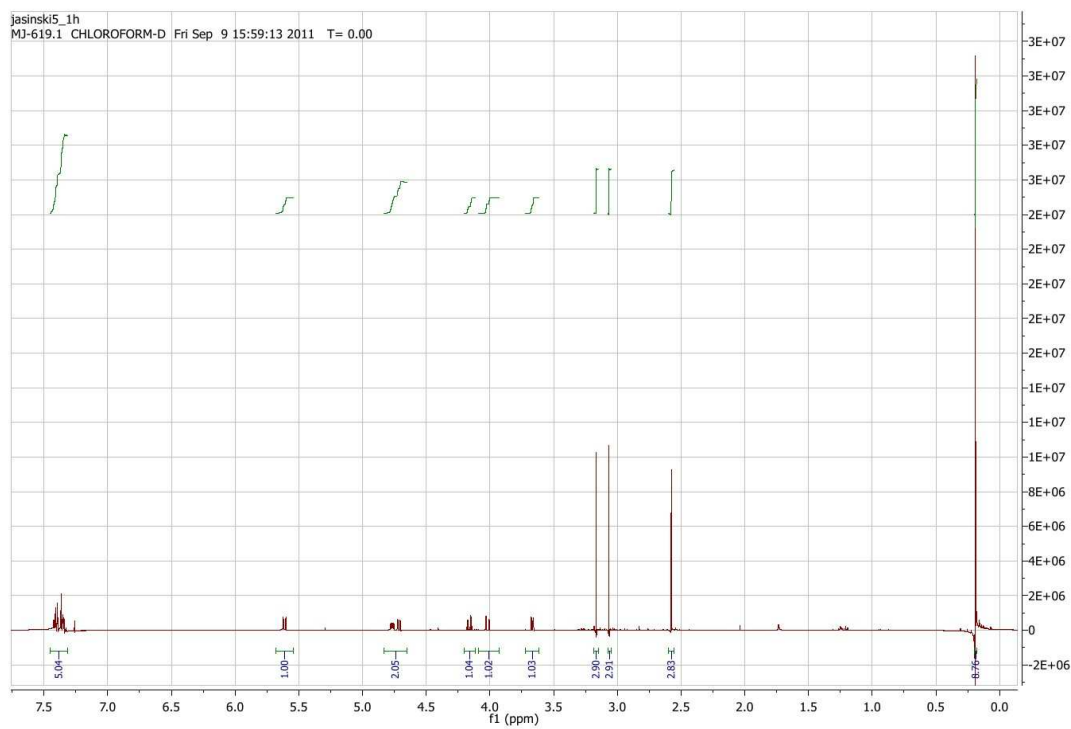
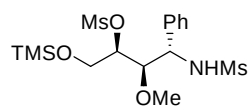
### Compound 23:

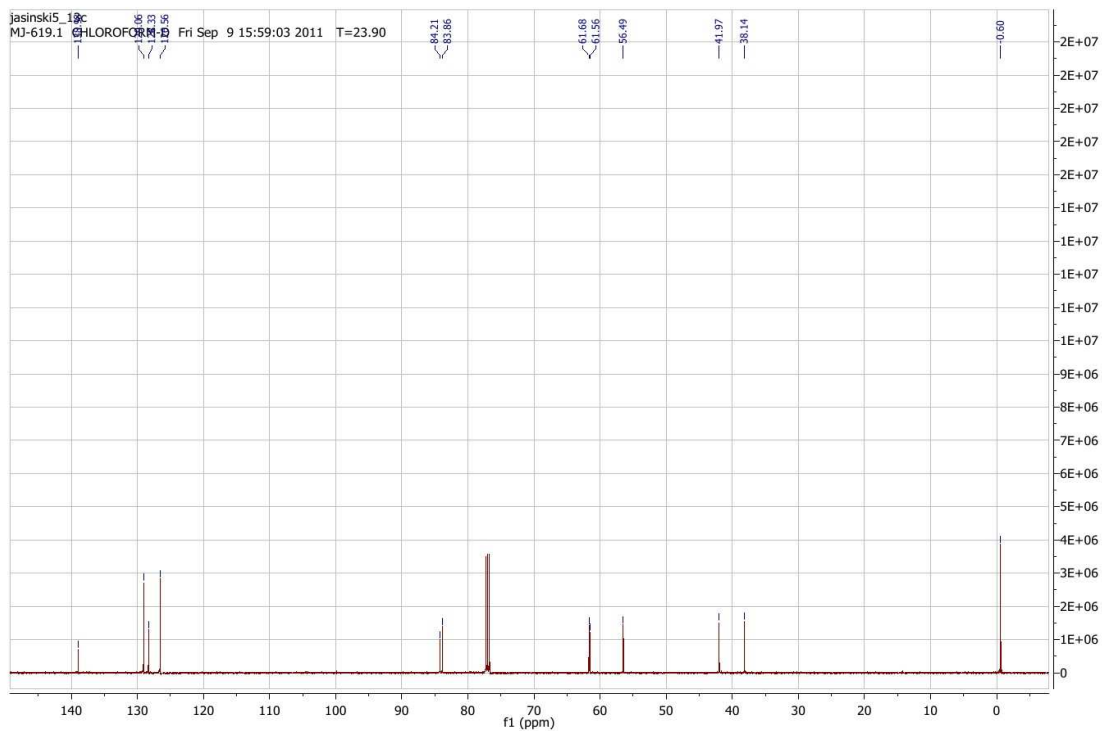




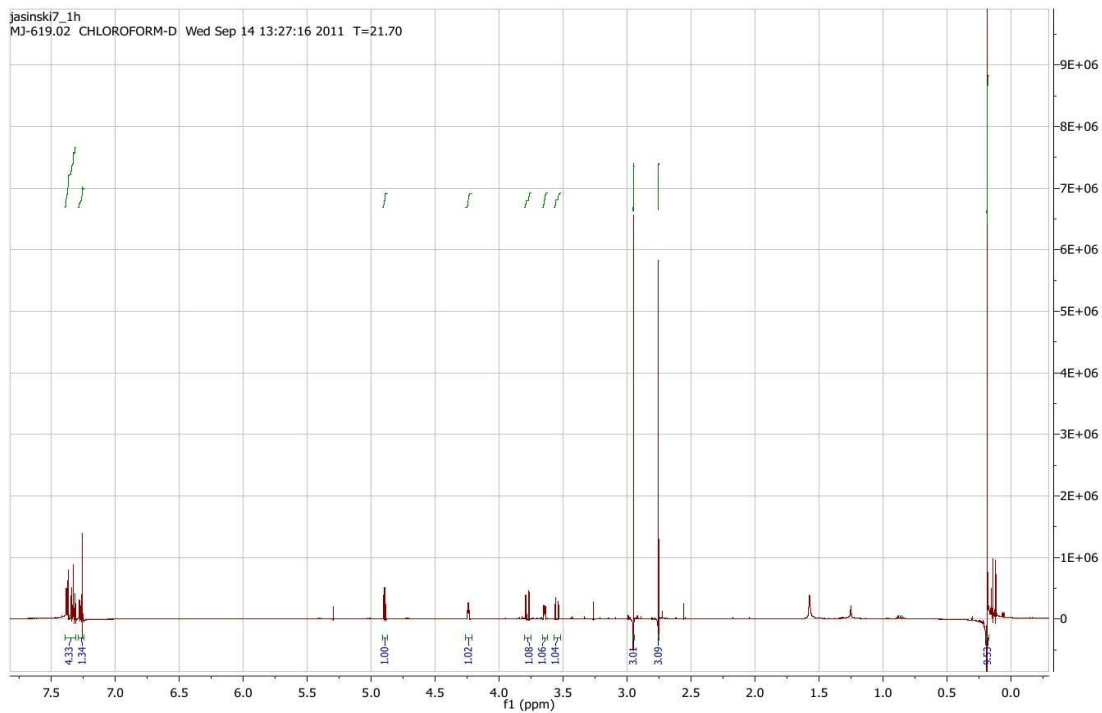
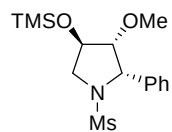


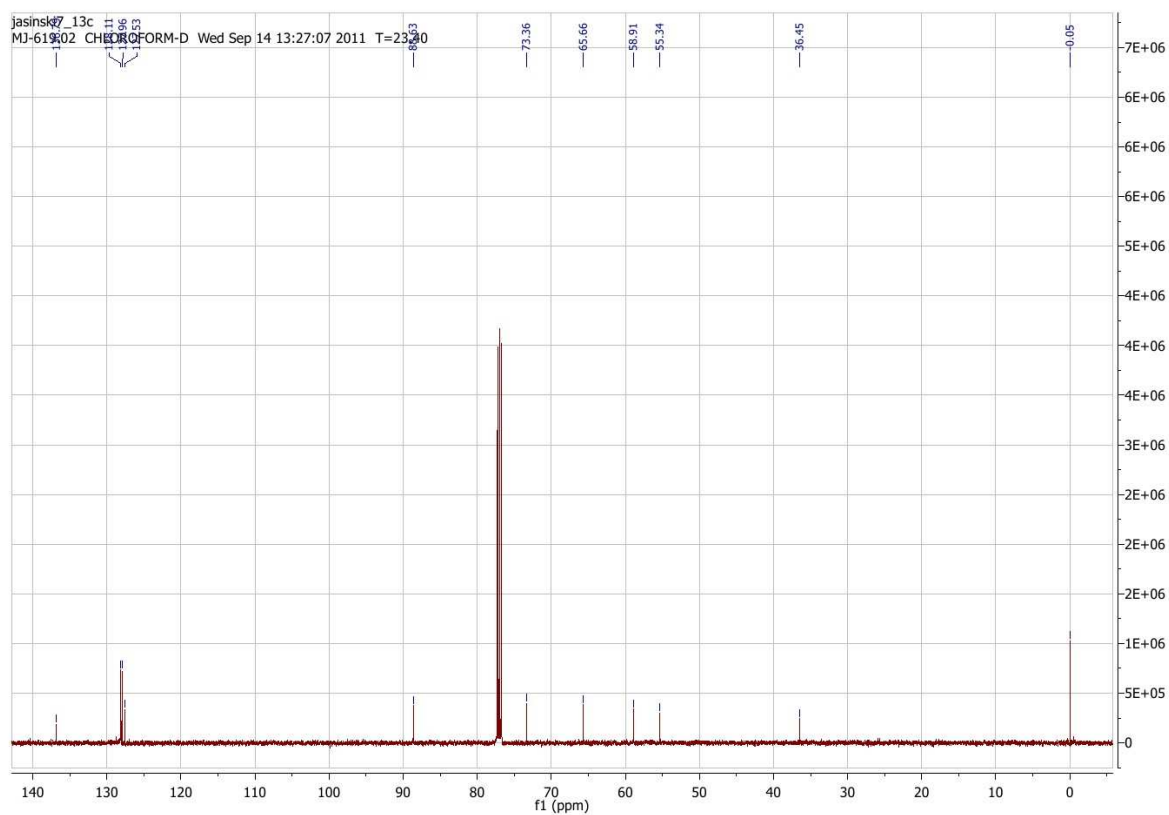
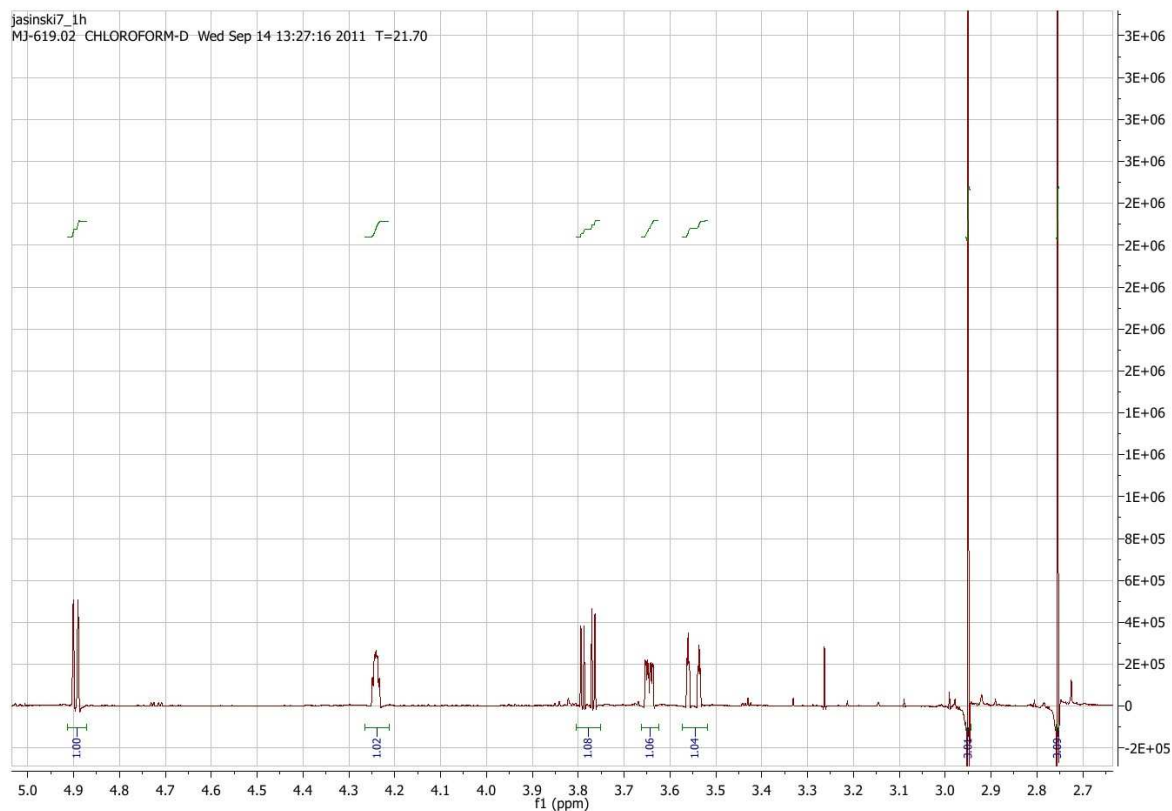
# Compound 24:



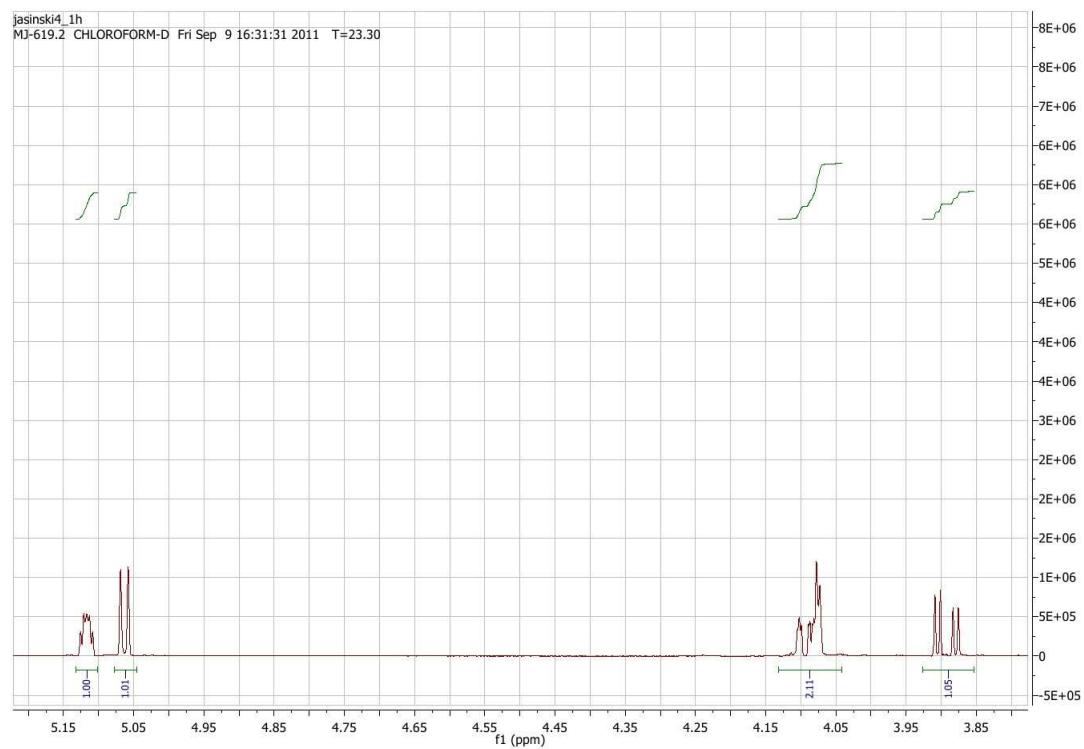
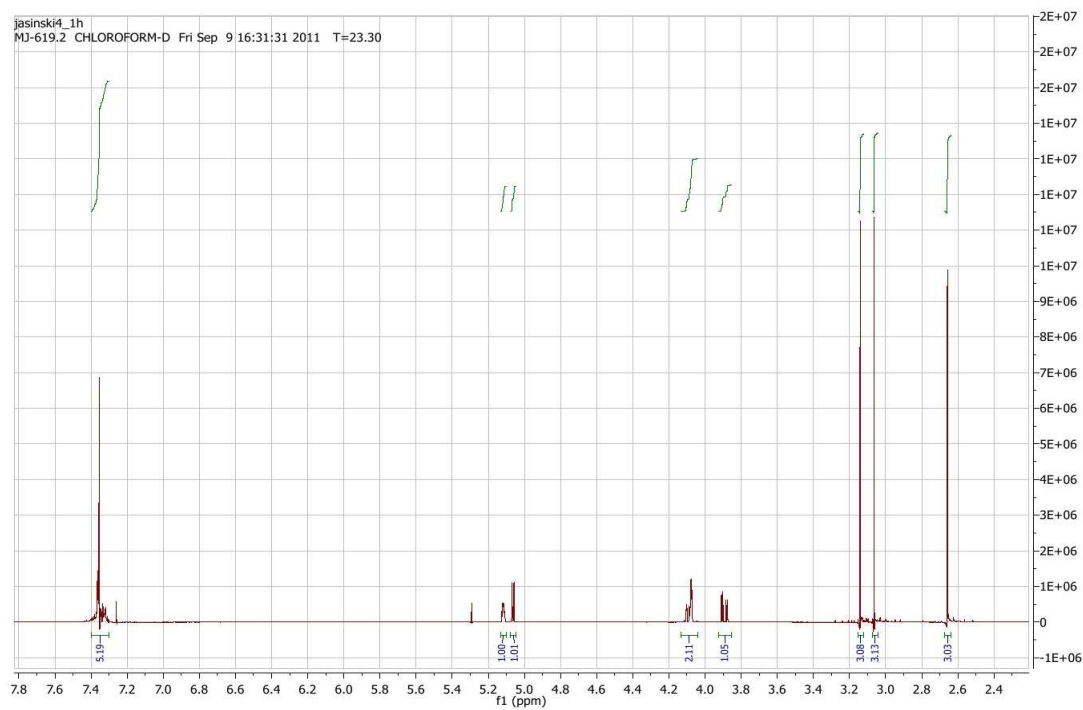
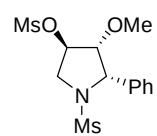


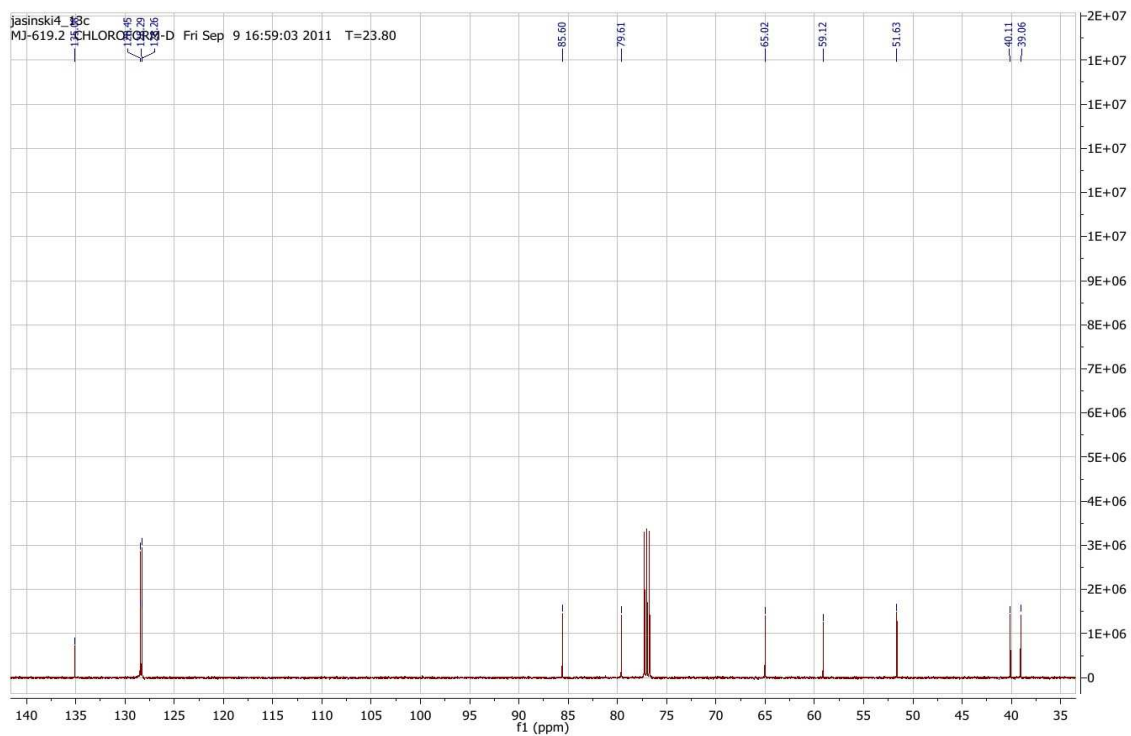
## Compound 25:



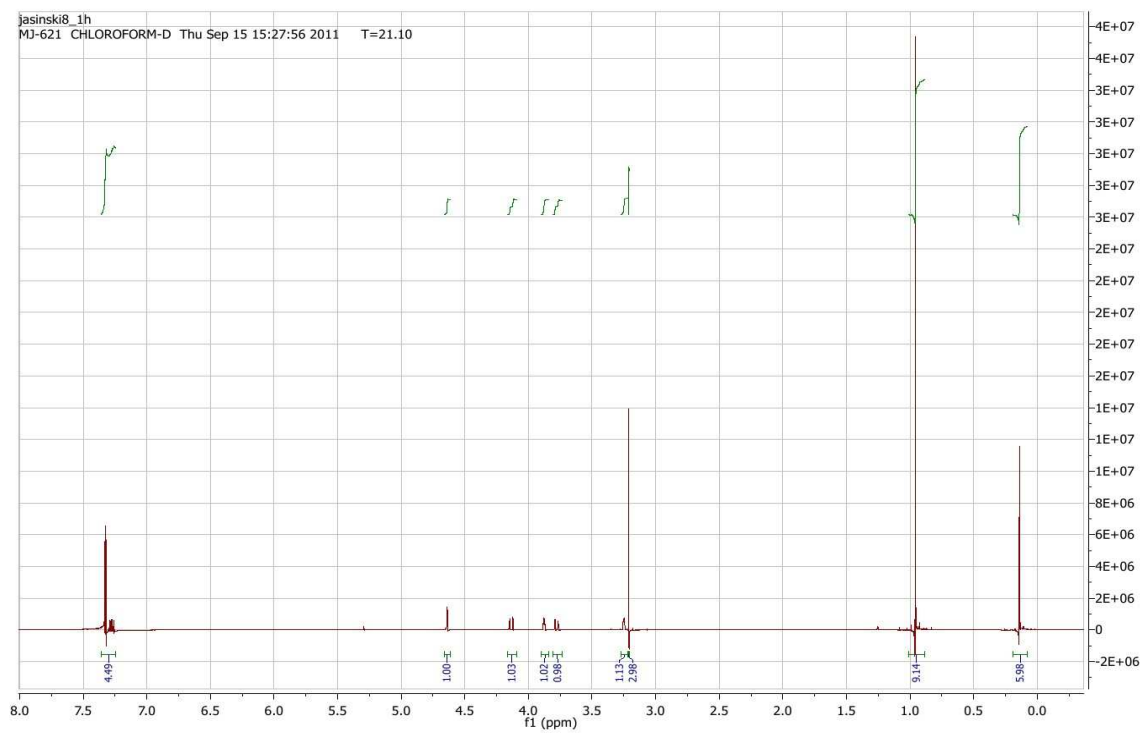
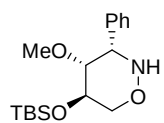


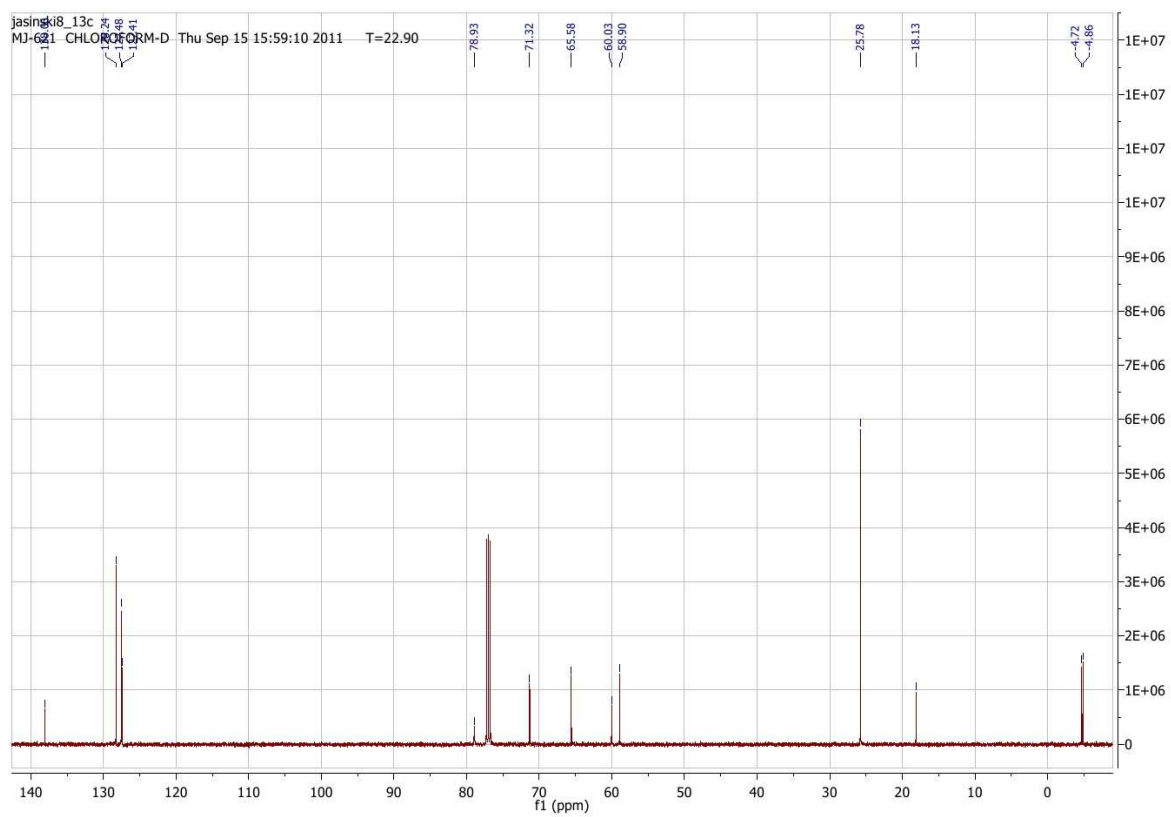
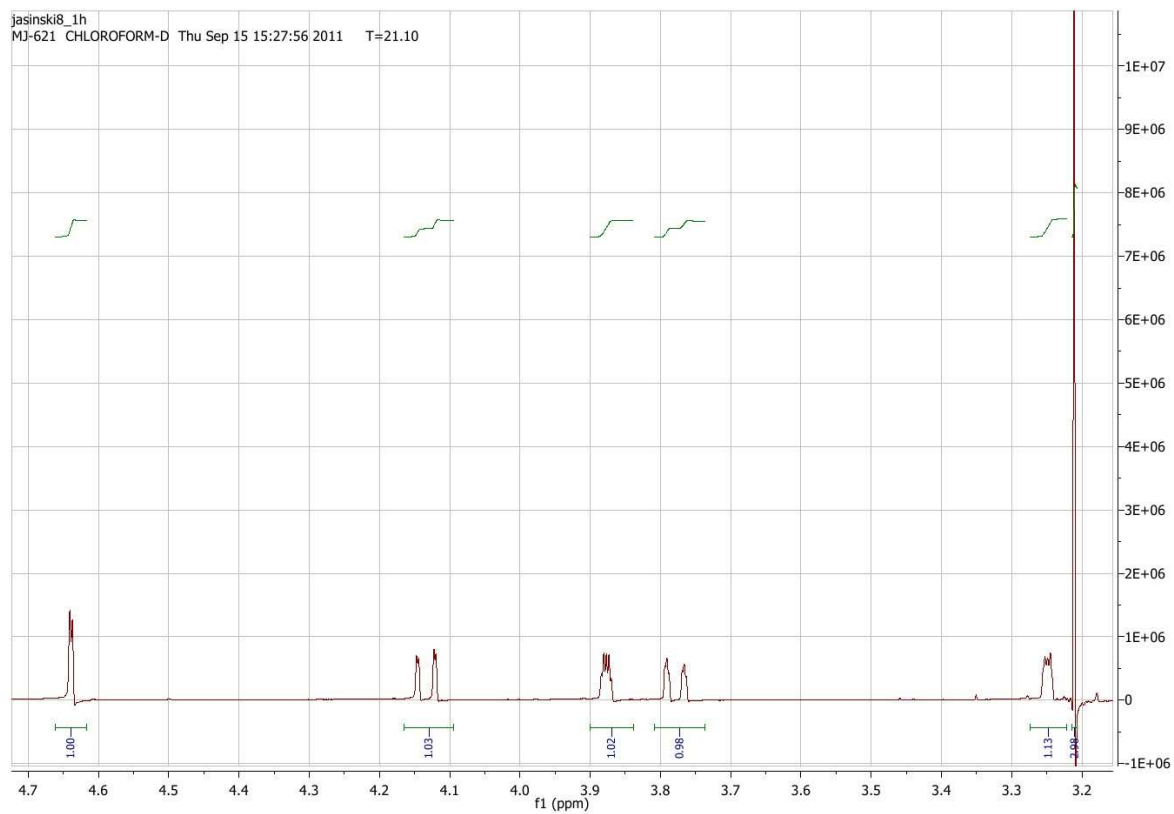
## Compound 26:



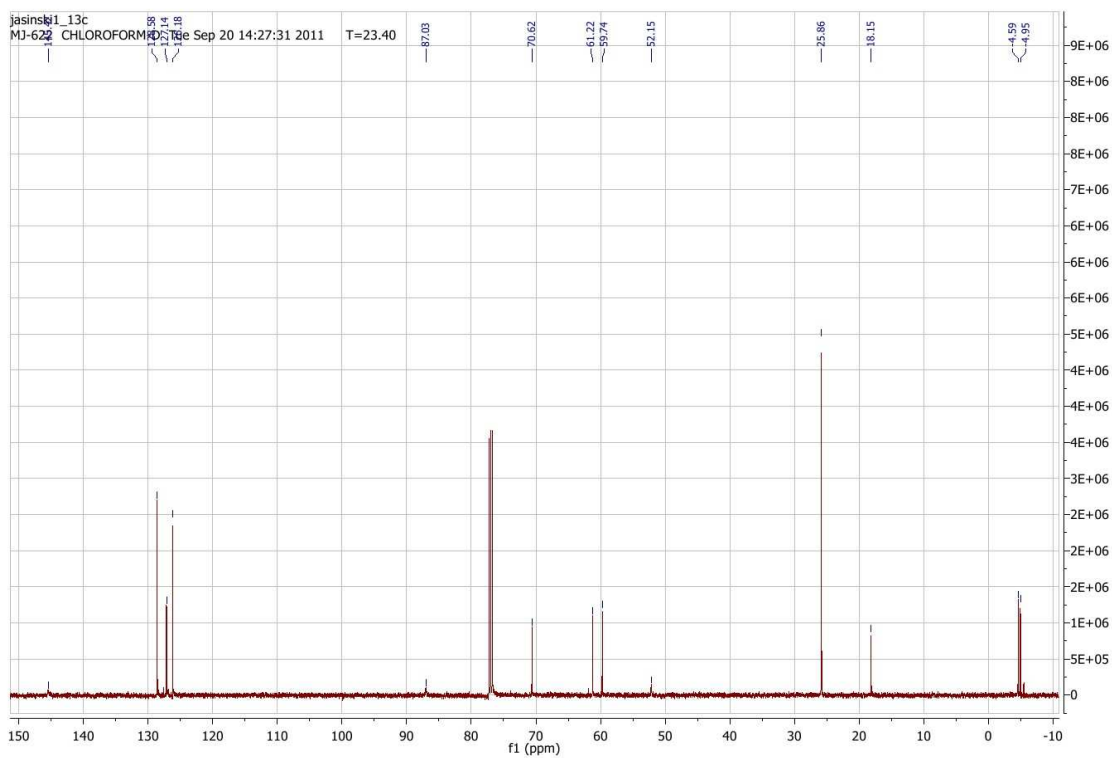
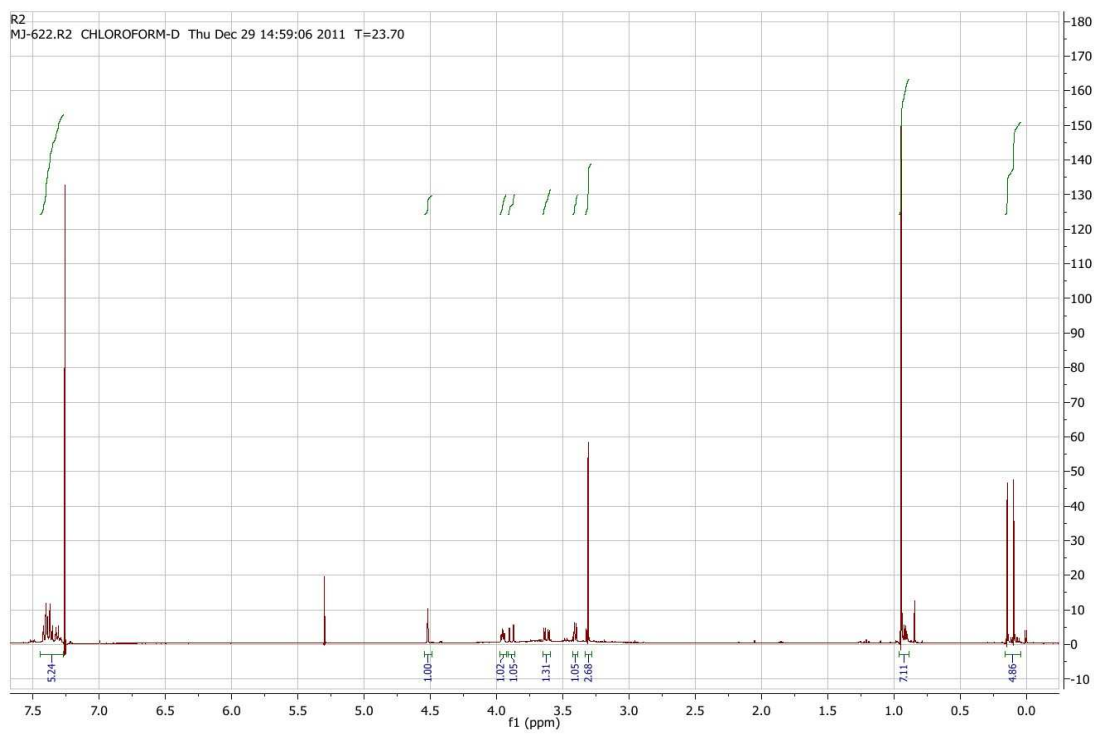
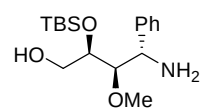


## Compound 27:



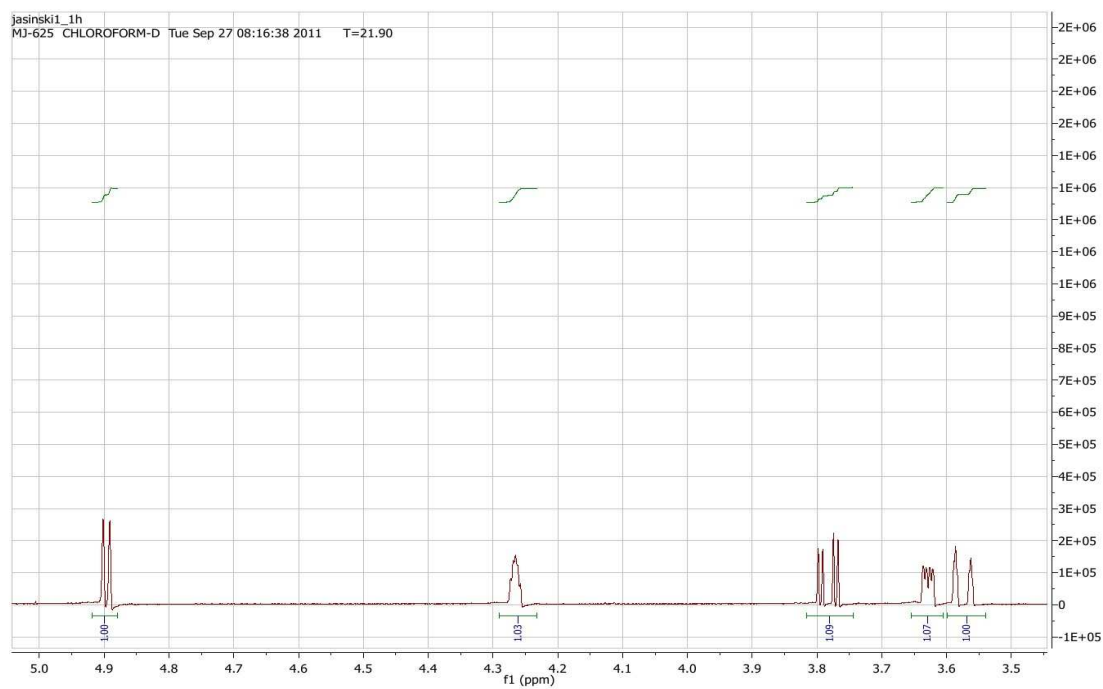
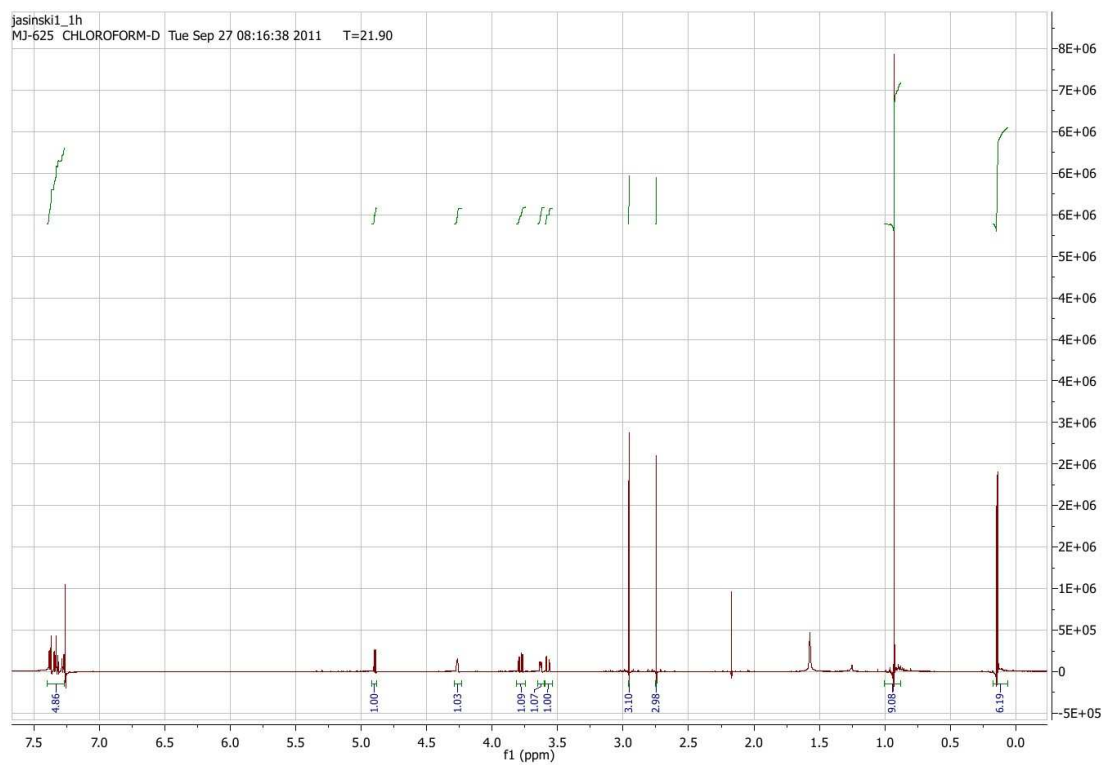
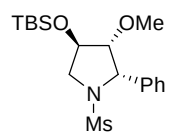


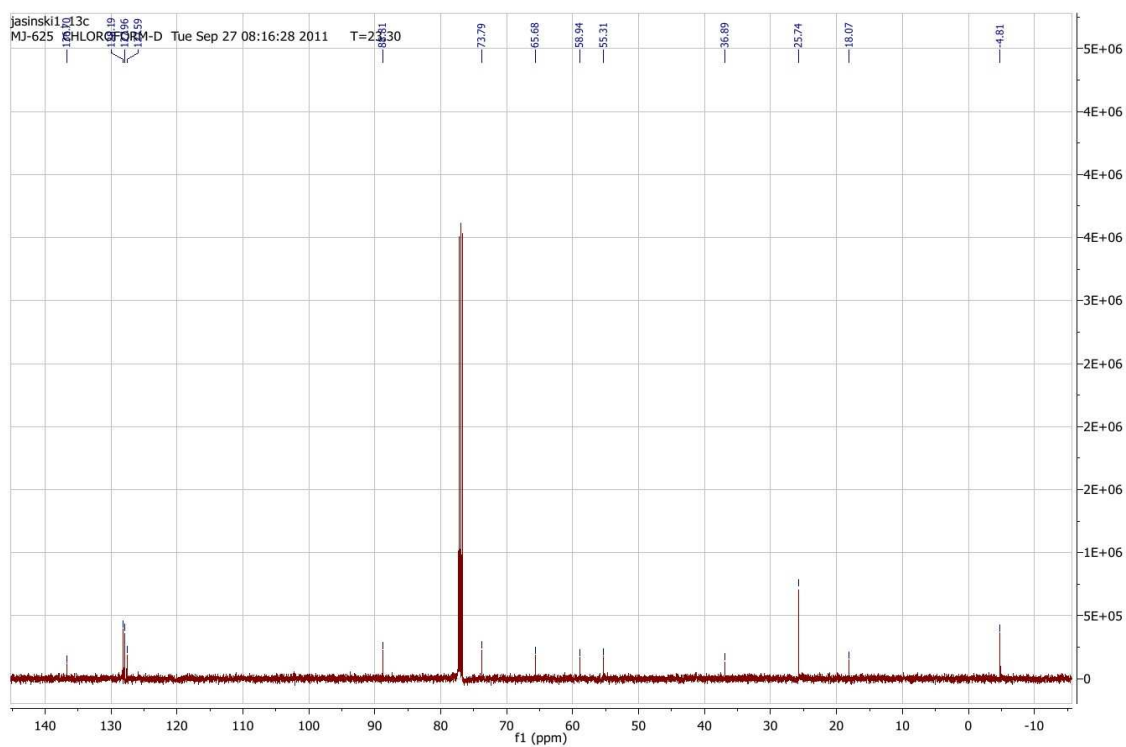
# Compound 28:



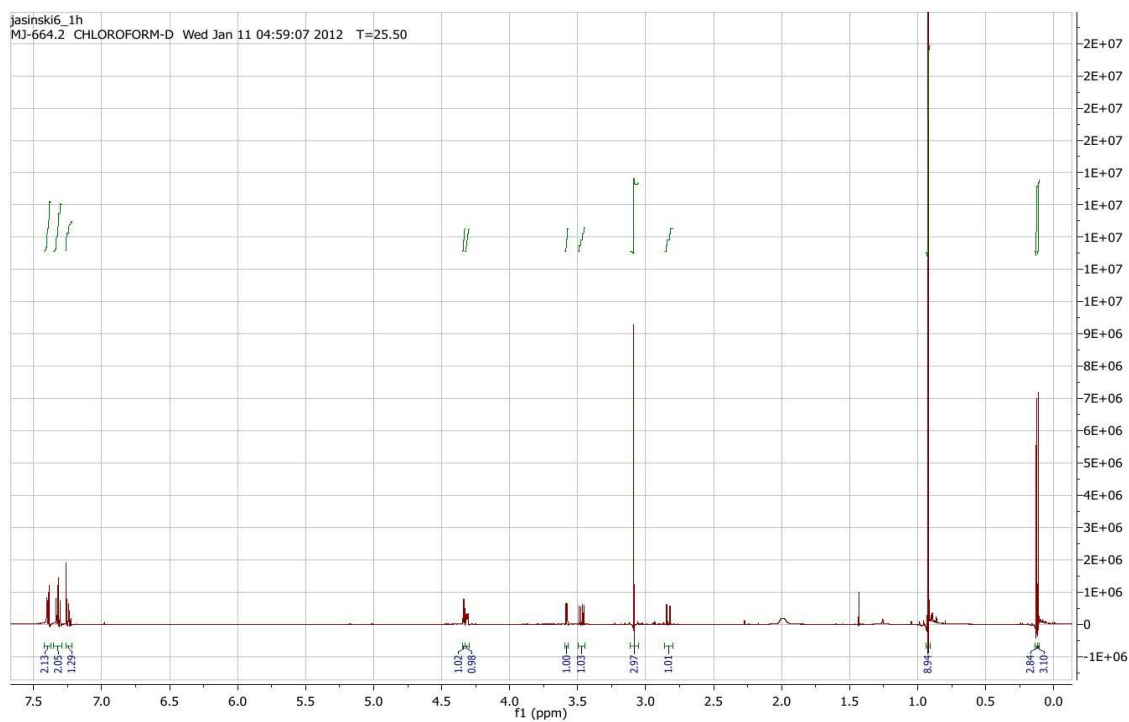
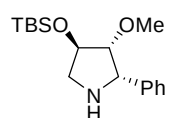


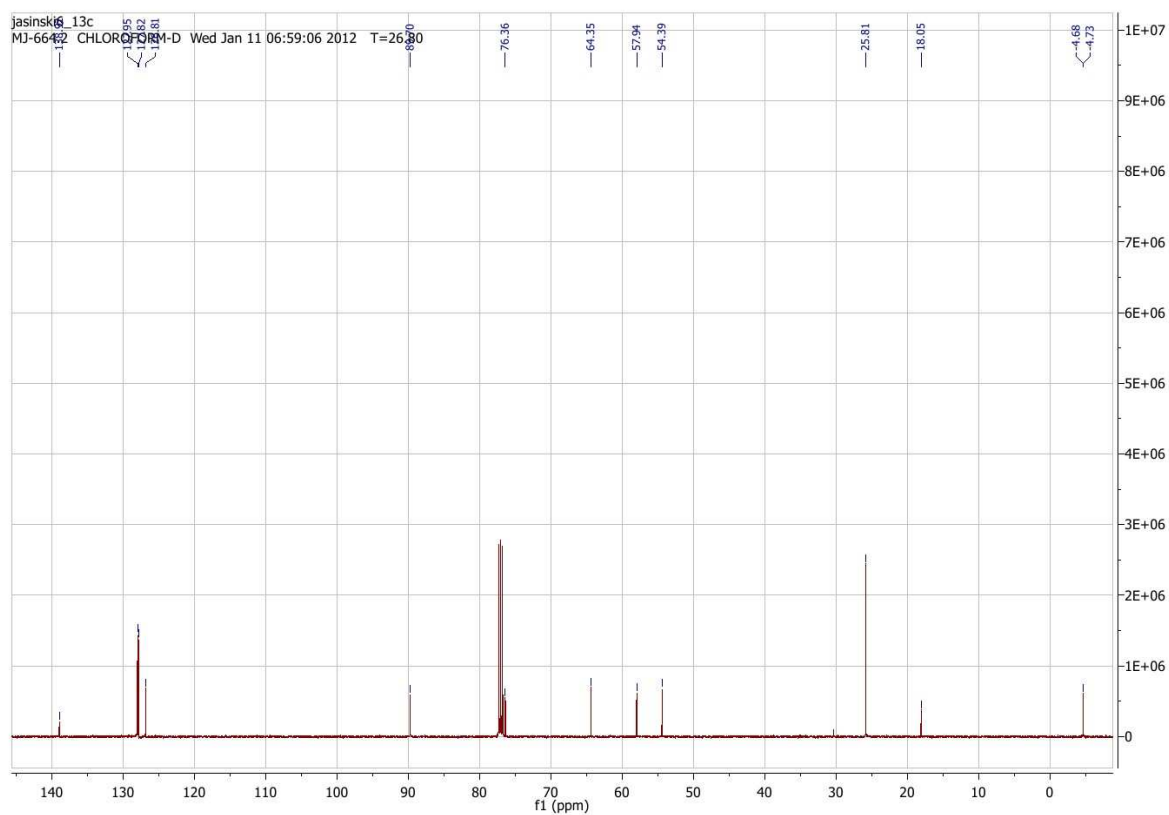
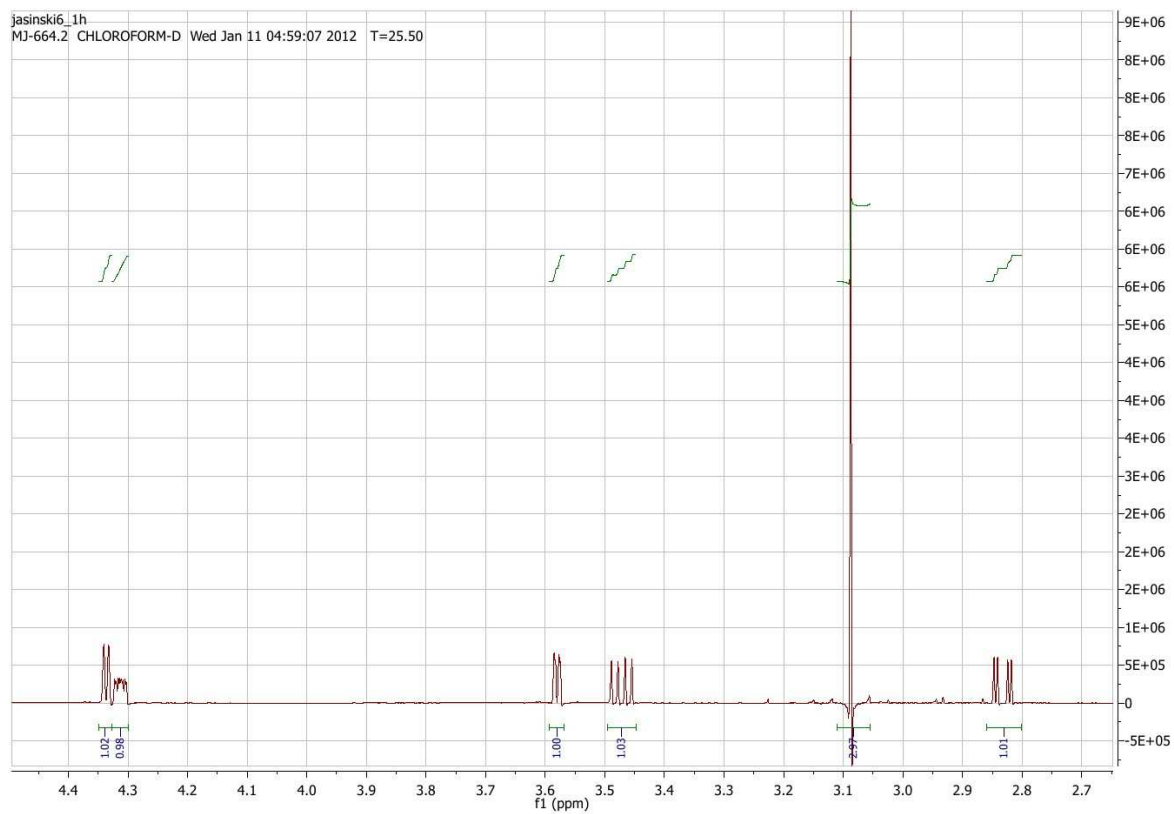
## Compound 29:



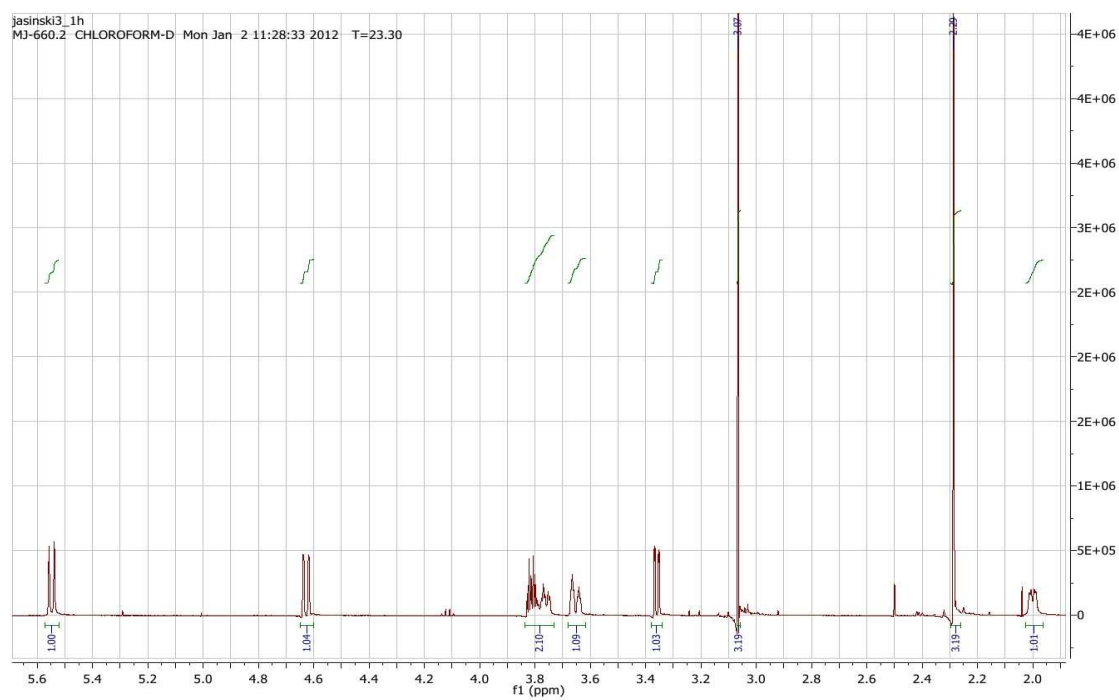
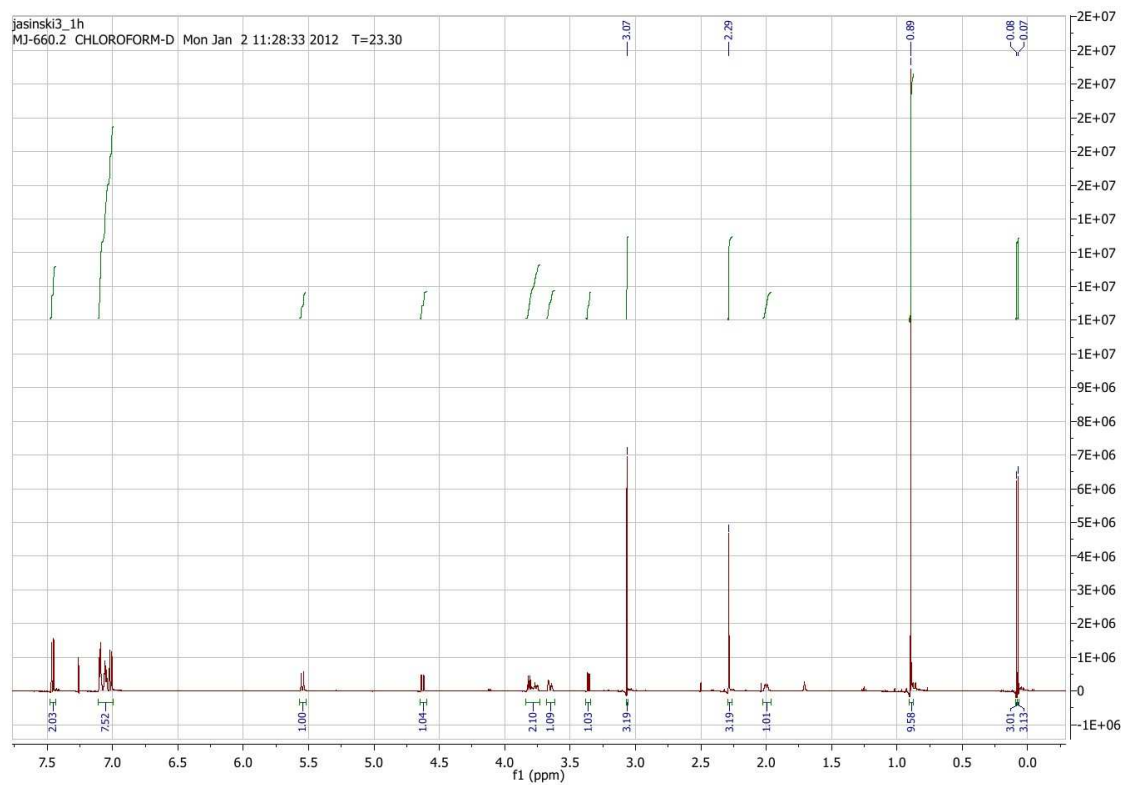
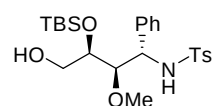


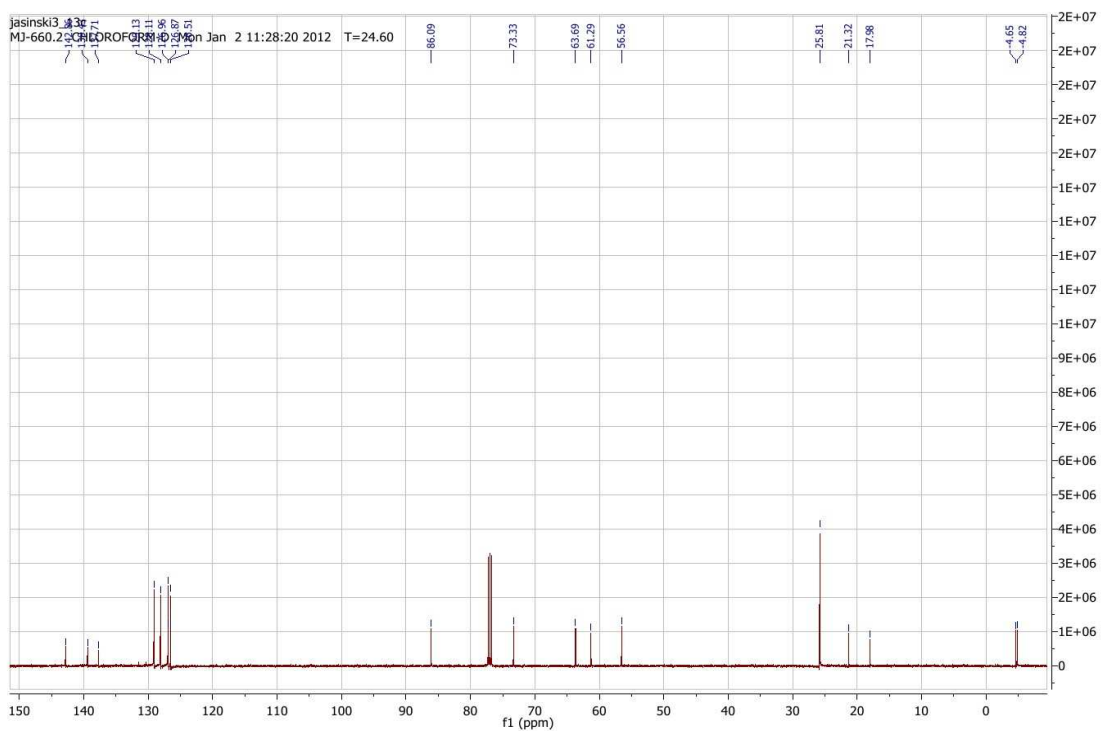
## Compound 30:





# Compound 31:





## Compound 32:

