

Stereocontrolled syntheses of (-)- and (+)- γ -diisoeugenol along with optically active eight stereoisomers of 7,8'-epoxy-8,7'-neolignan

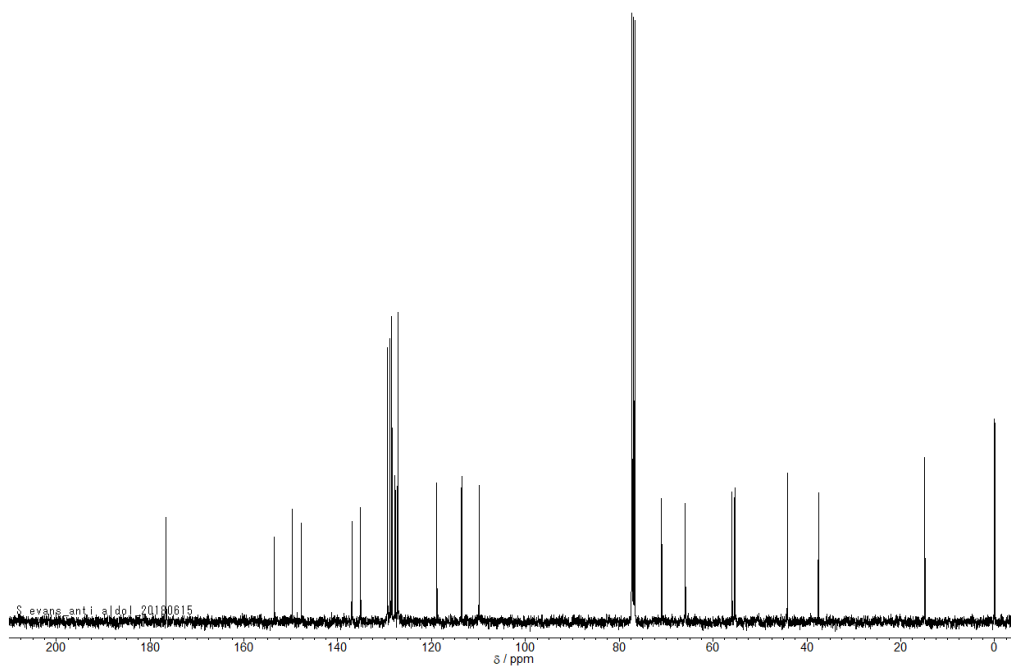
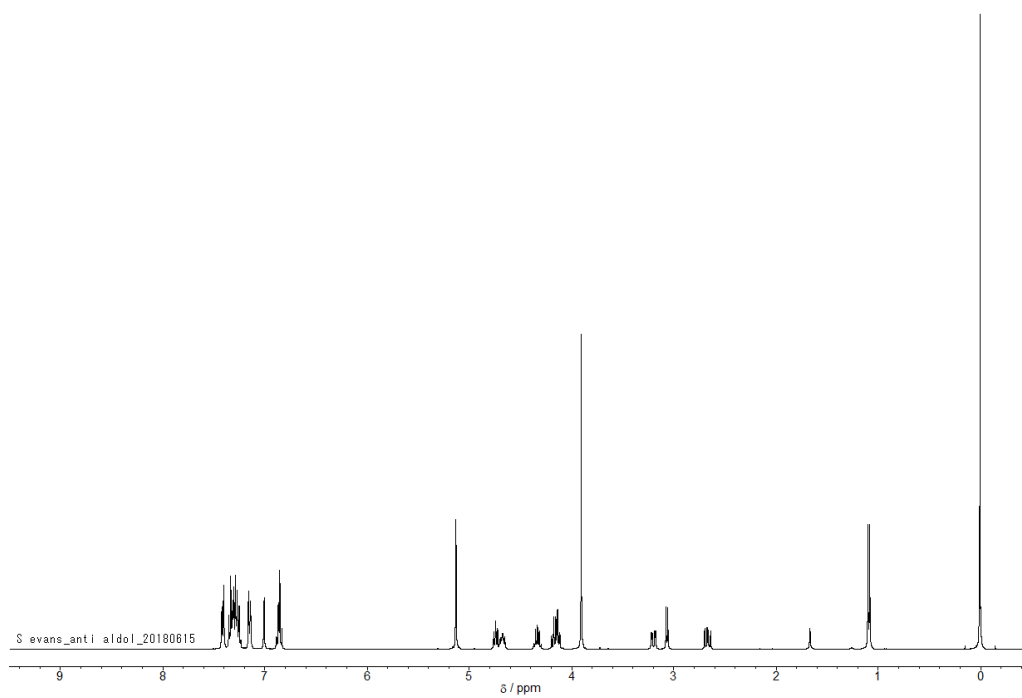
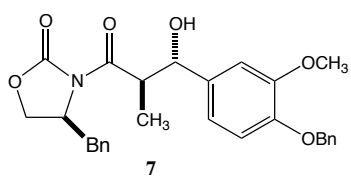
Tatsuaki Takubo, Nao Kikuchi, Hisashi Nishiwaki, Satoshi Yamauchi*
Graduate School of Agriculture, Ehime University, 3-5-7 Tarumi,
Matsuyama, Ehime 790-8566, Japan

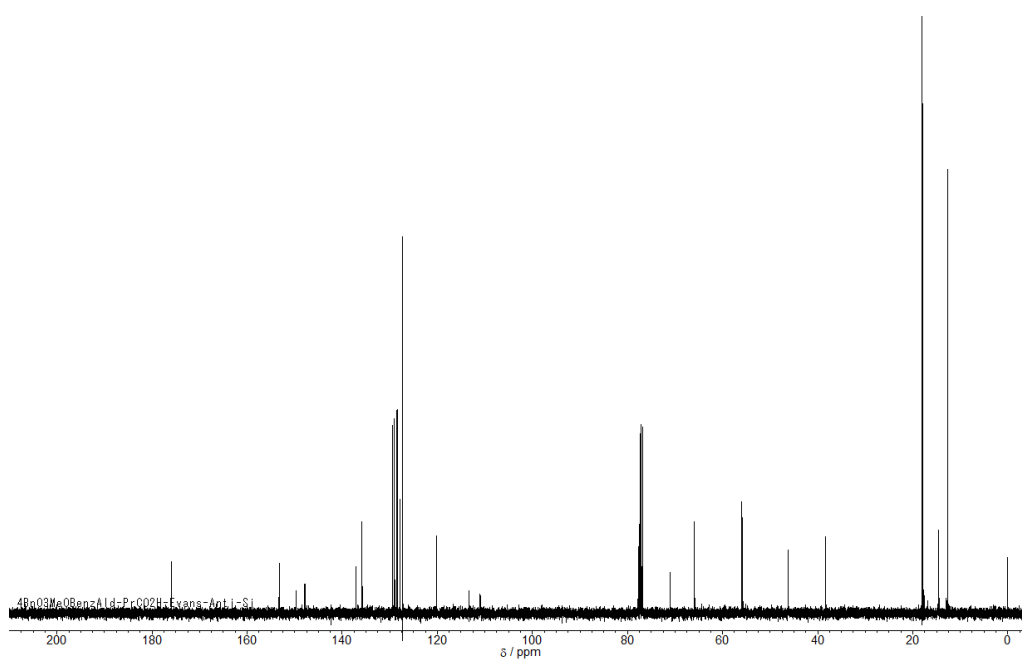
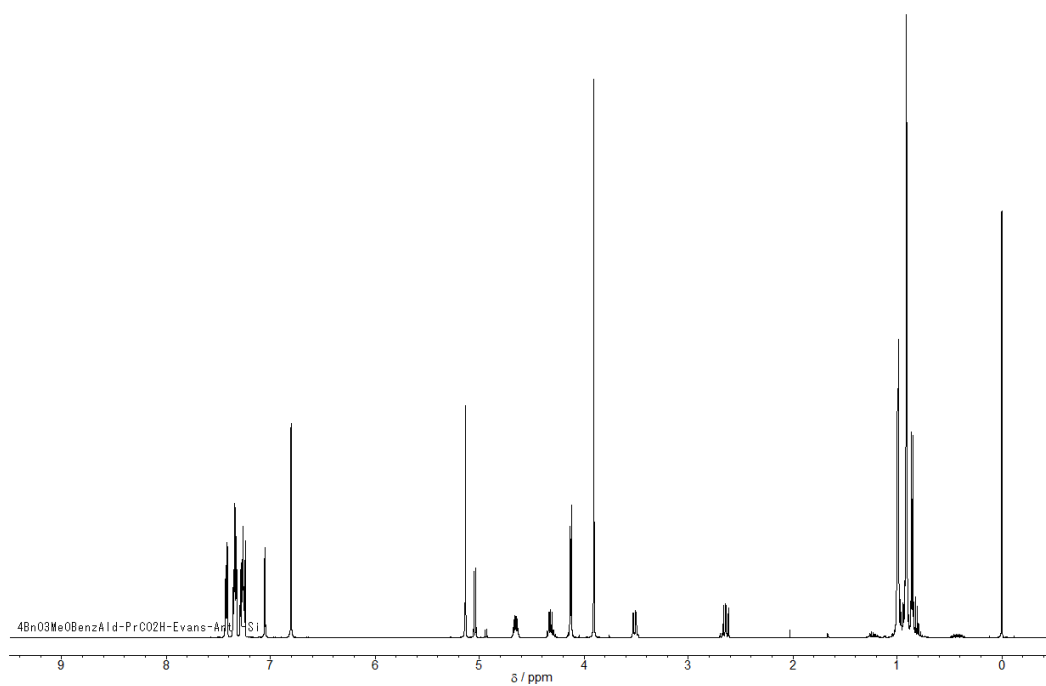
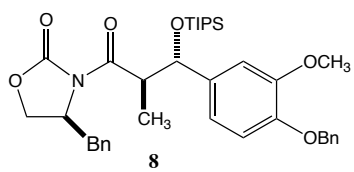
Supporting Information

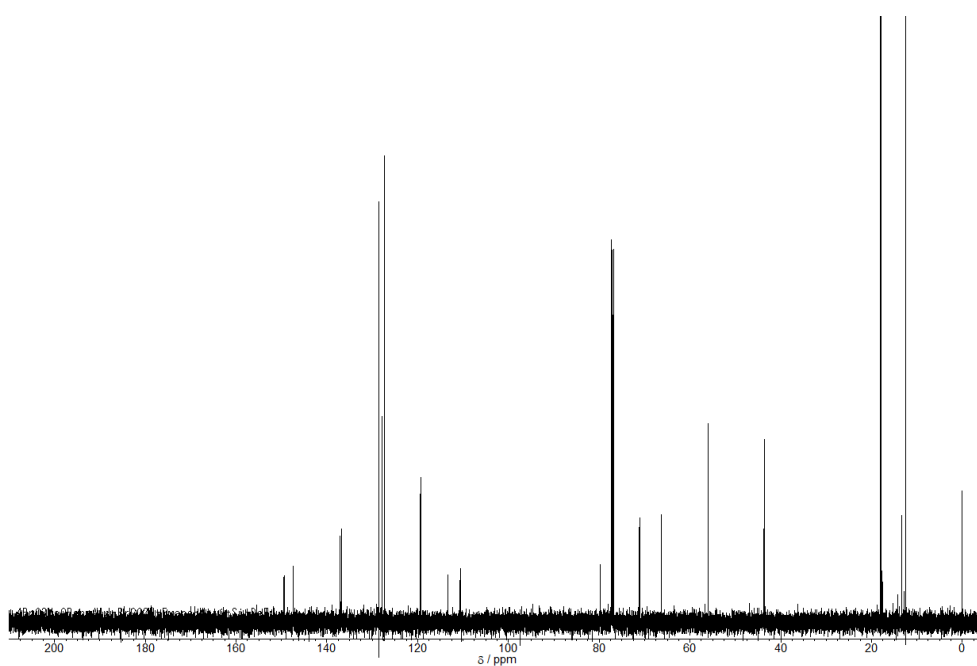
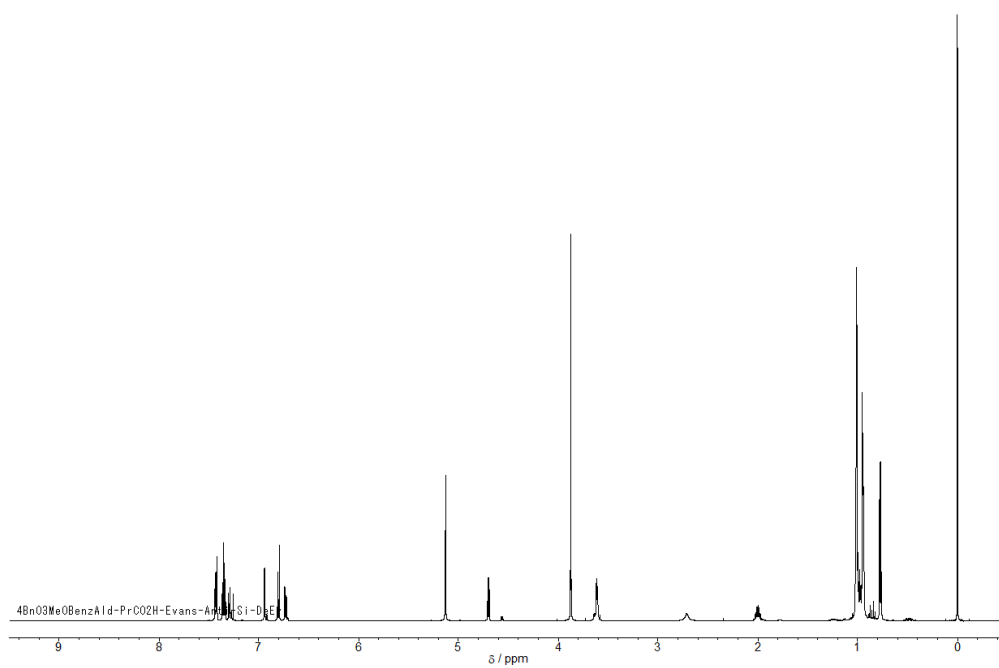
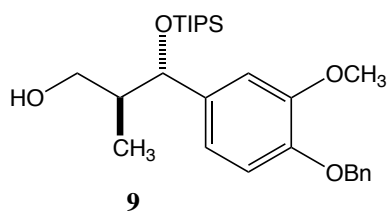
^1H -, ^{13}C -NMR, and differential NOE spectra...P2-71

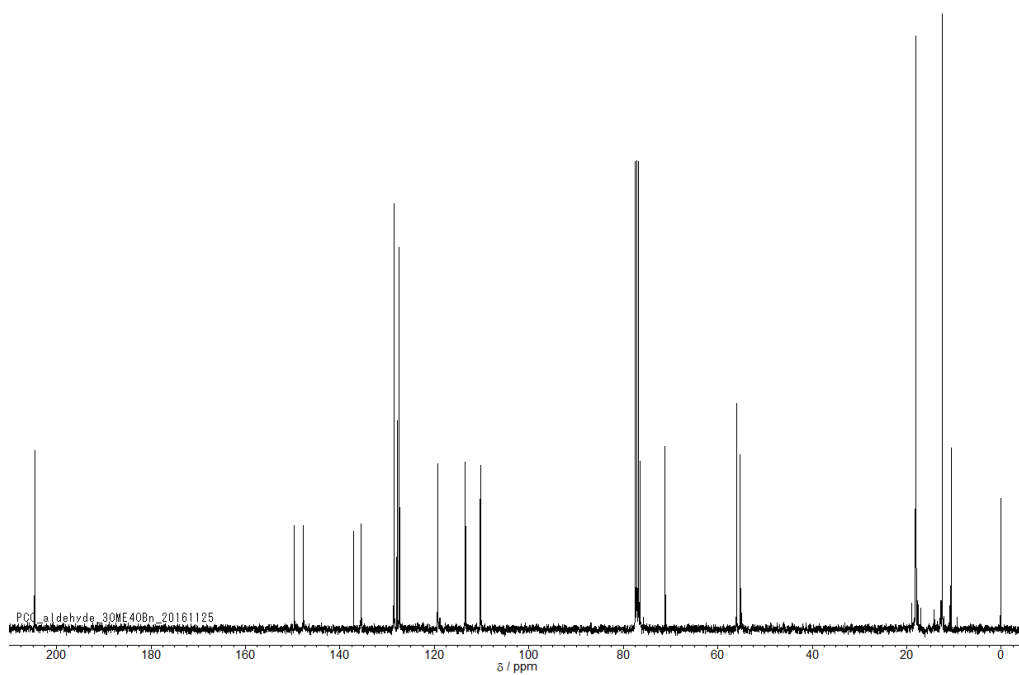
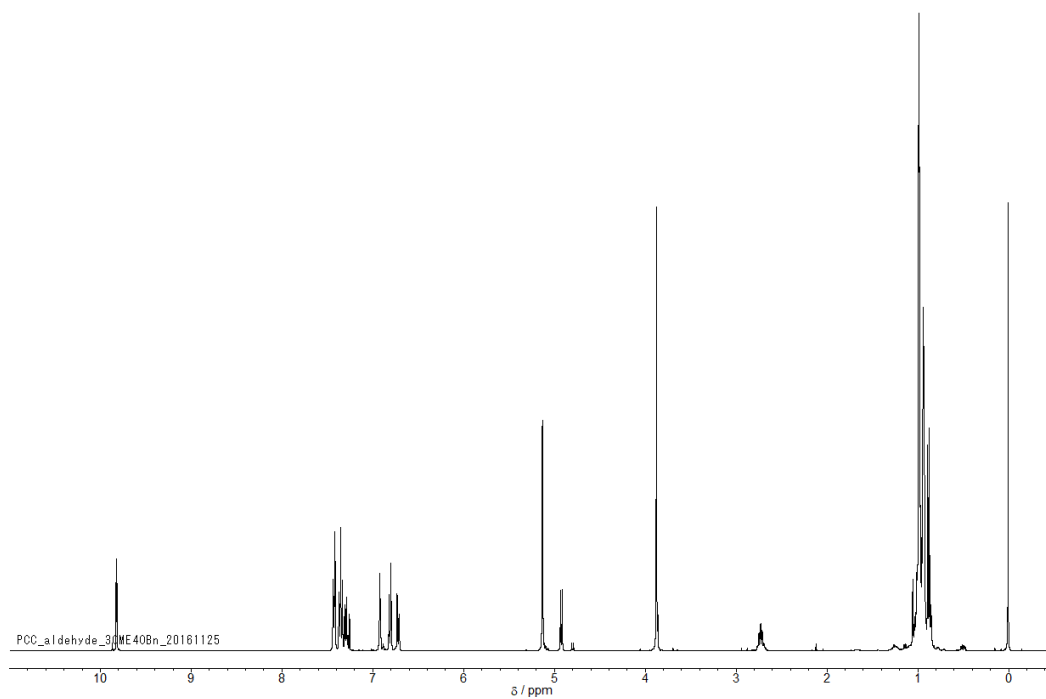
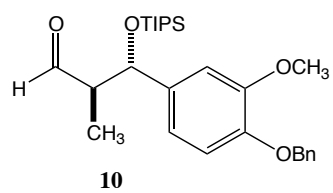
HRMS spectra of **4**, **20**, 7'-*epi*-**20**, **24**, 7'-*epi*-**24**...P72-77

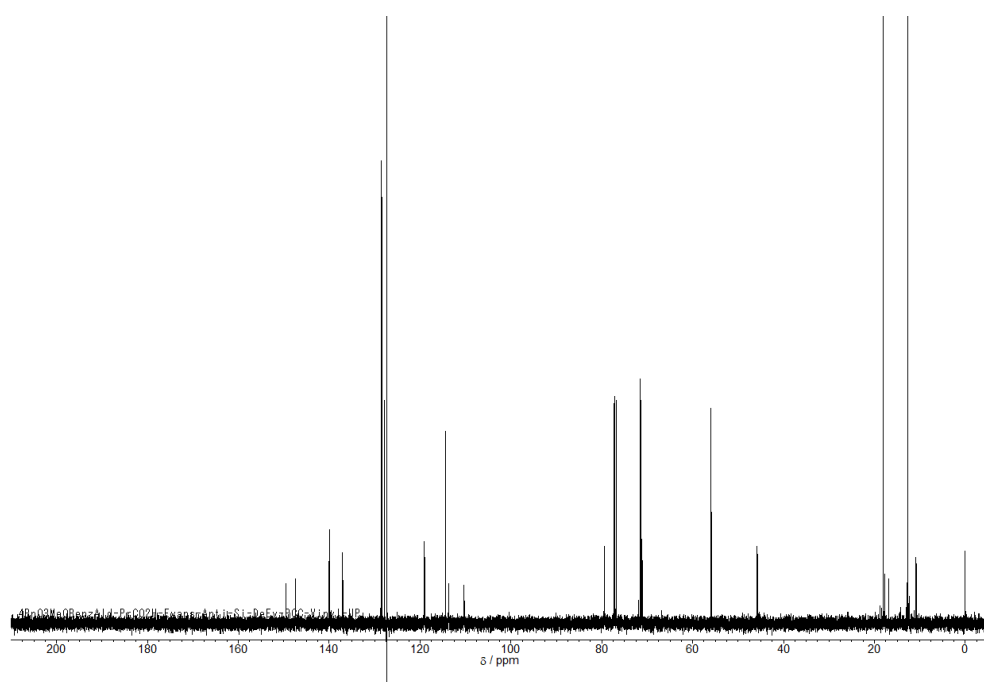
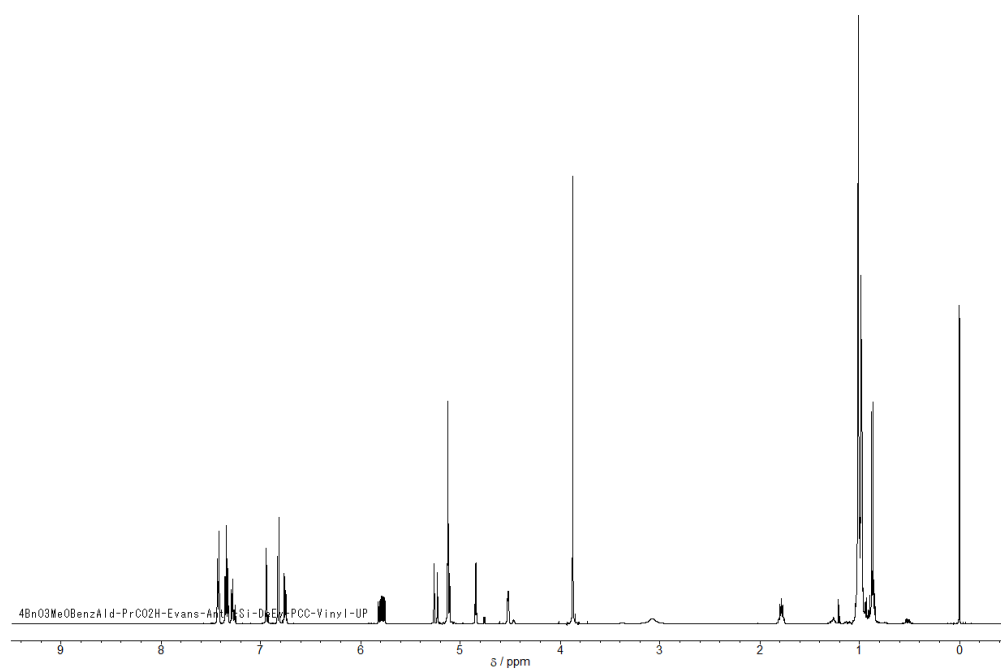
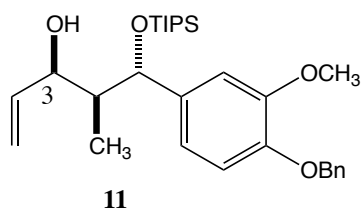
HPLC data of **4**, **20**, 7'-*epi*-**20**, **24**, 7'-*epi*-**24**...P78-80

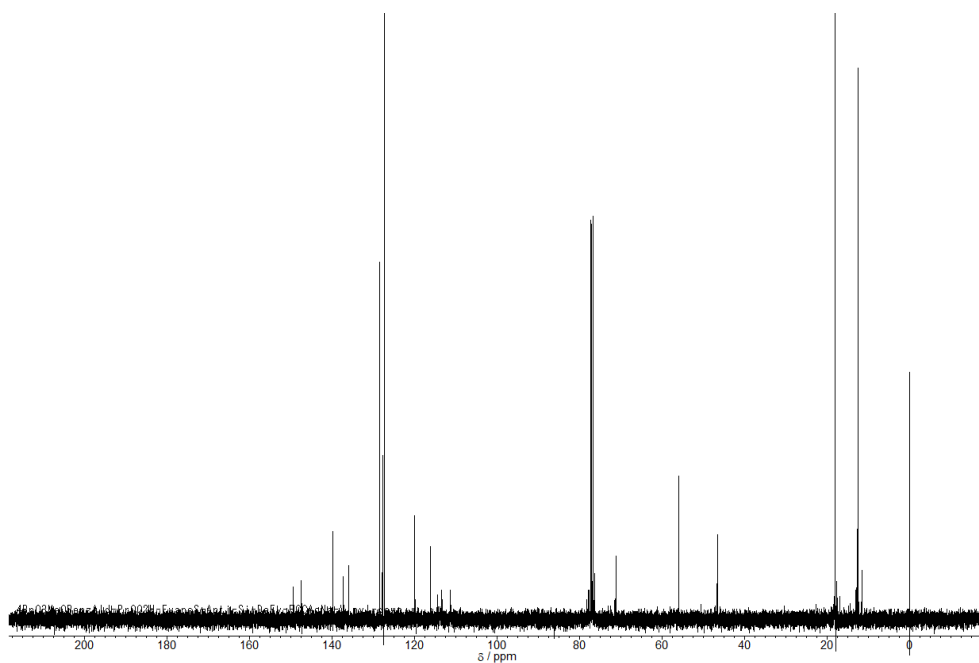
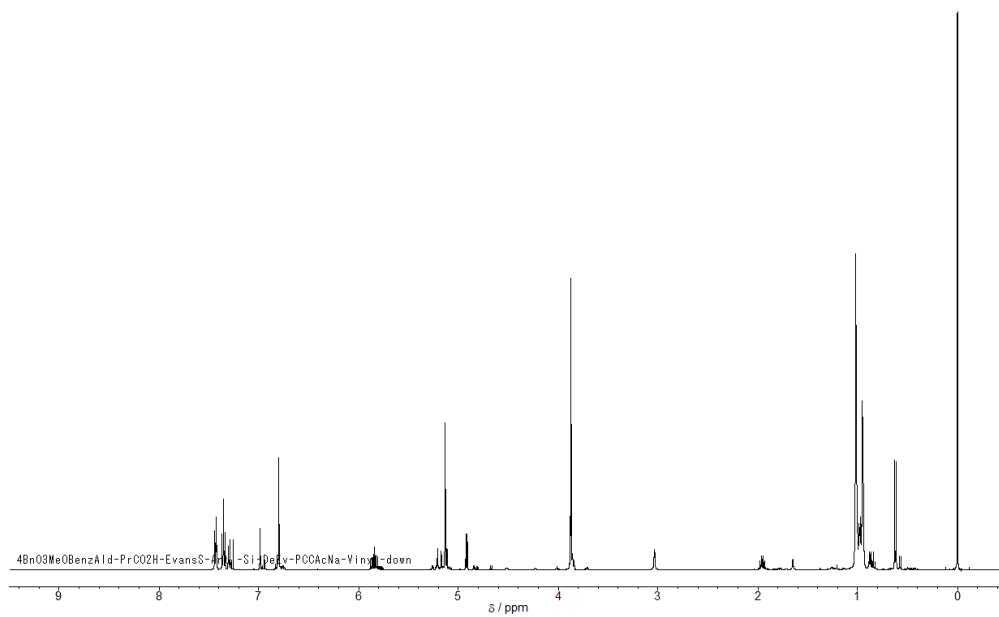
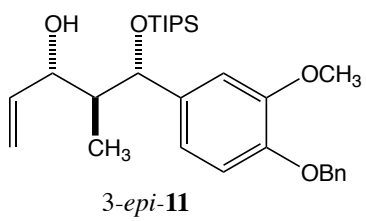


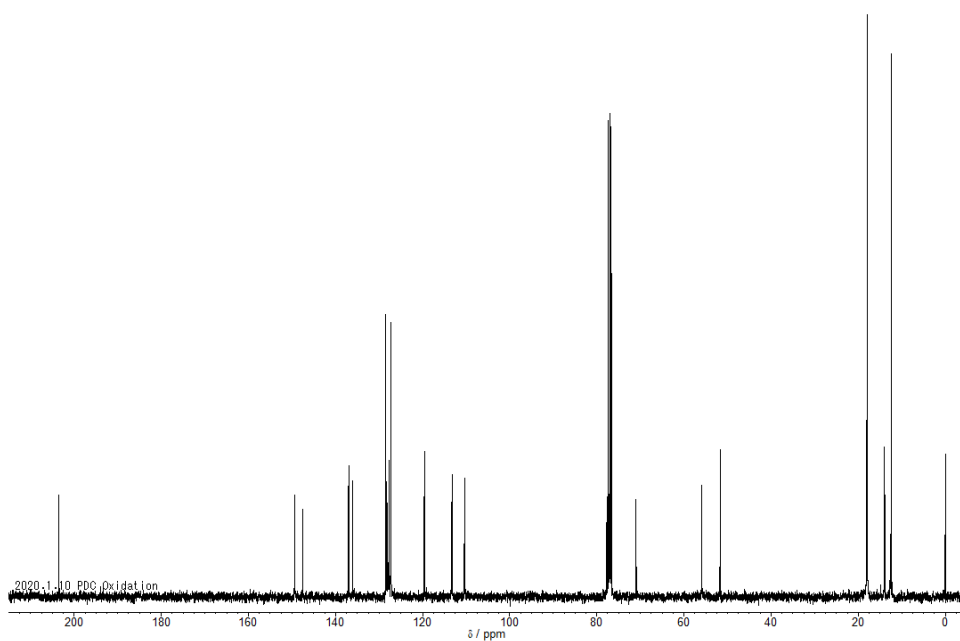
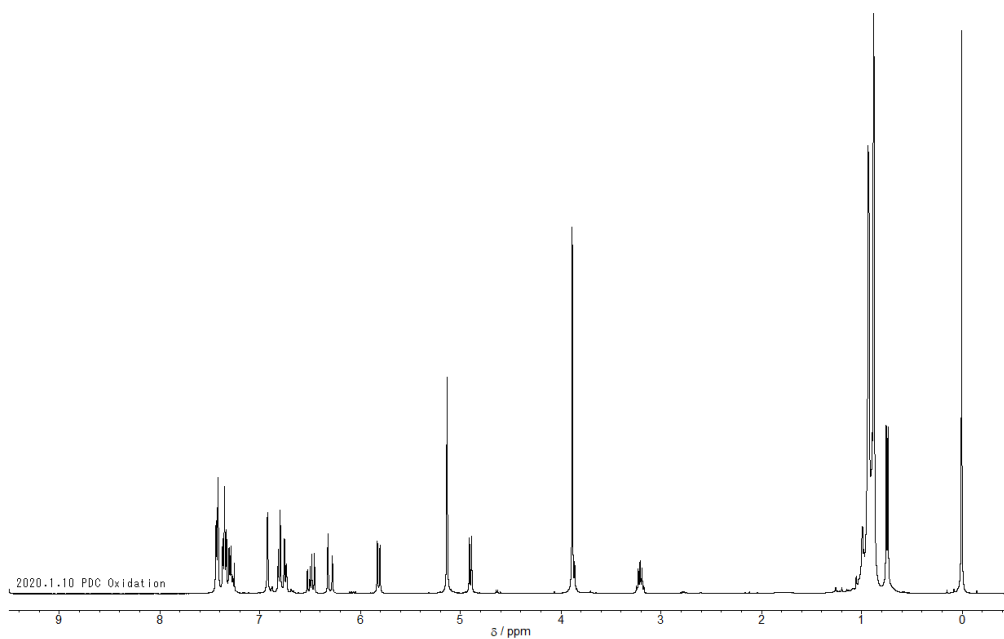
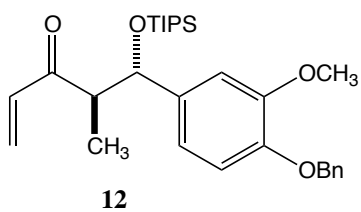


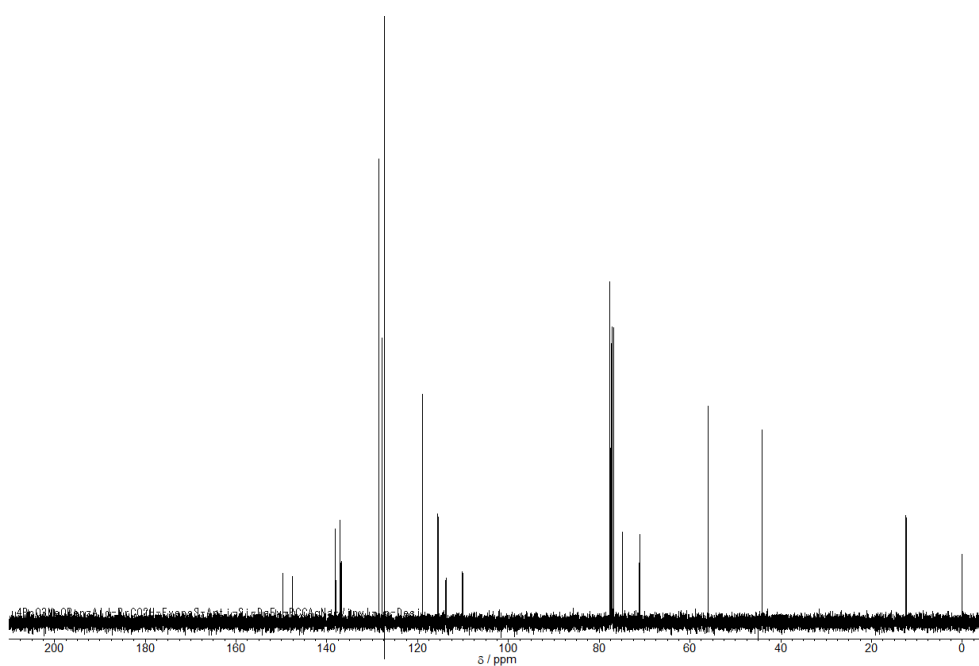
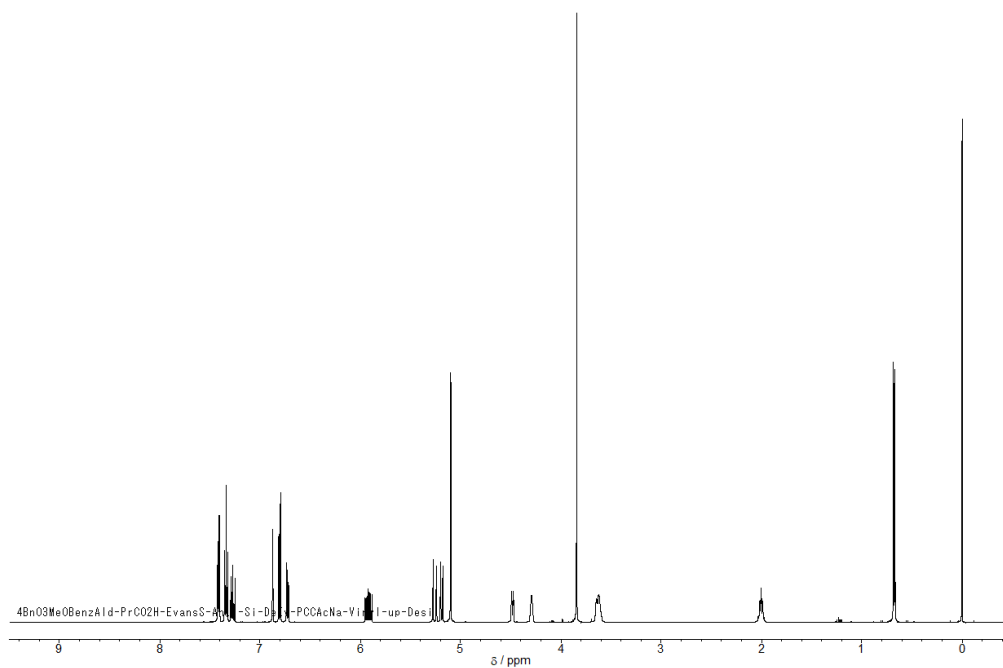
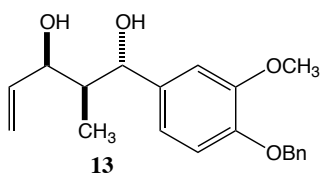


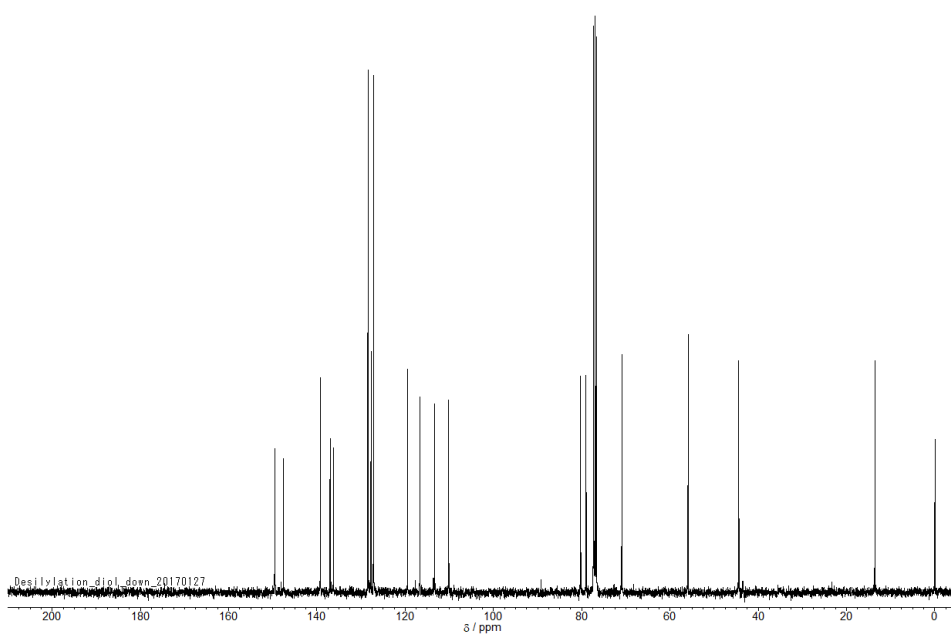
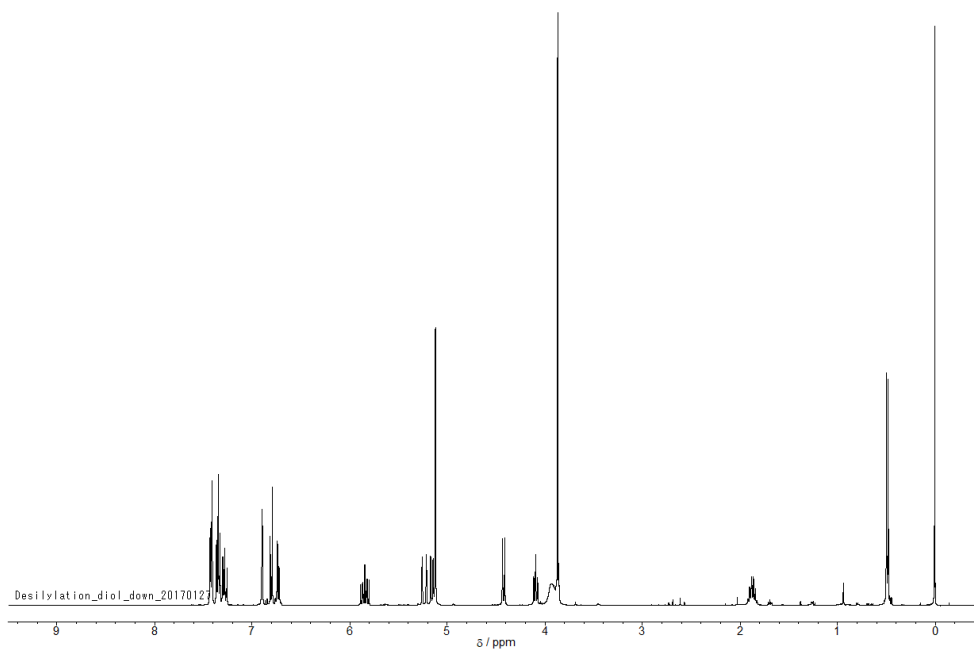
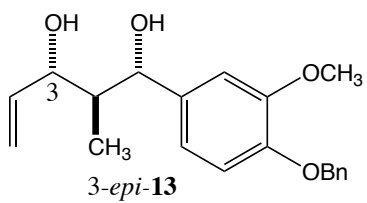


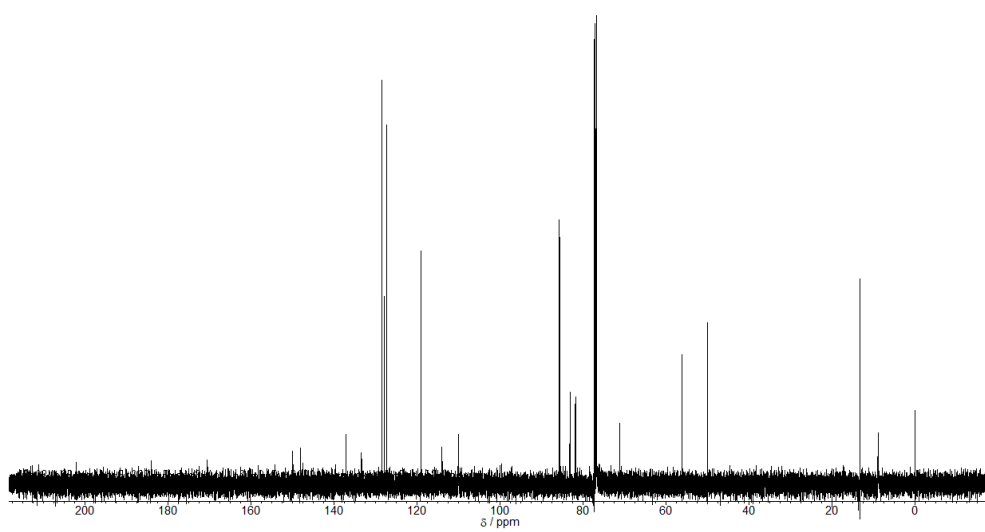
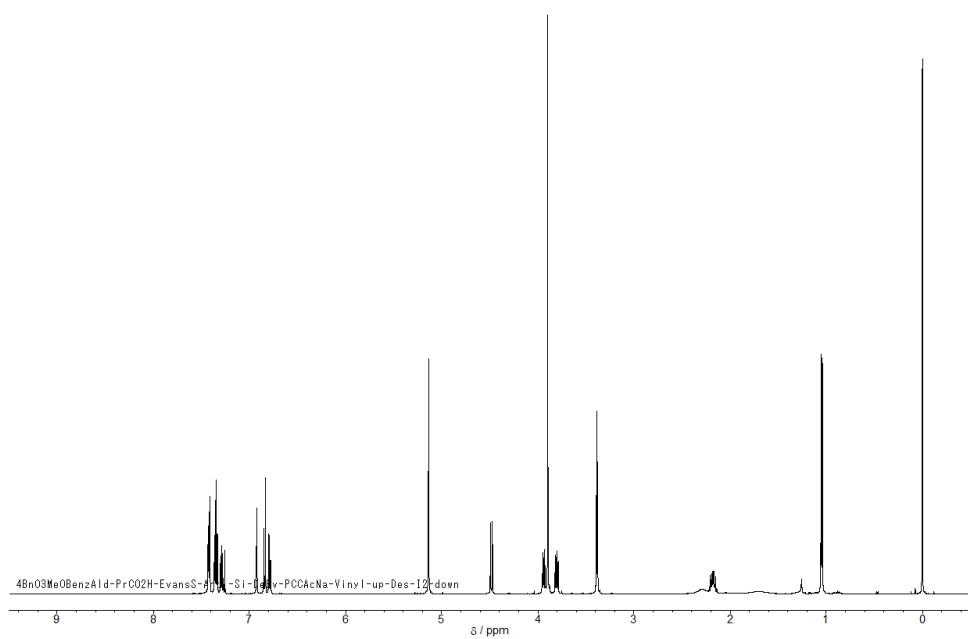
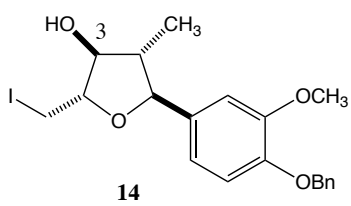


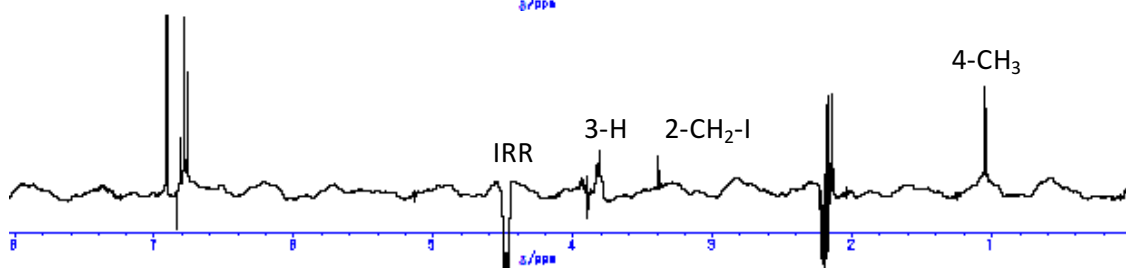
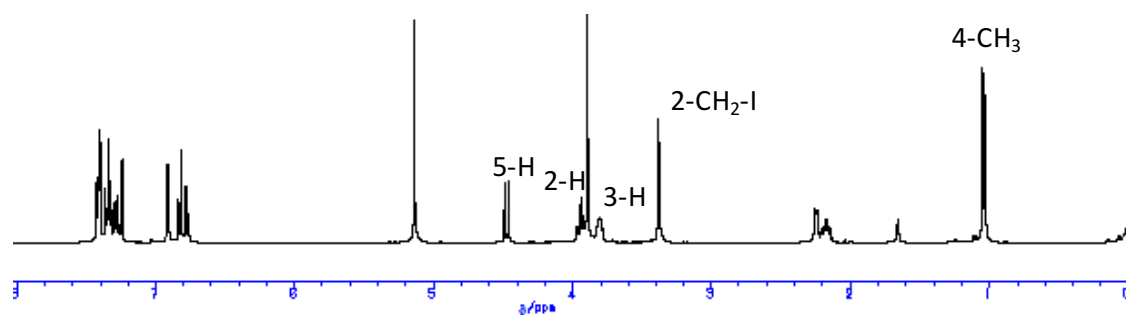
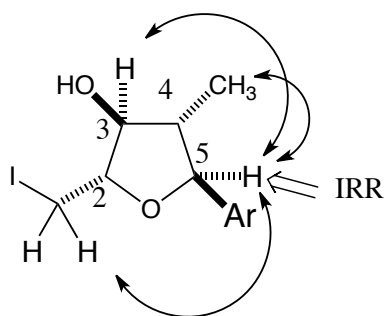


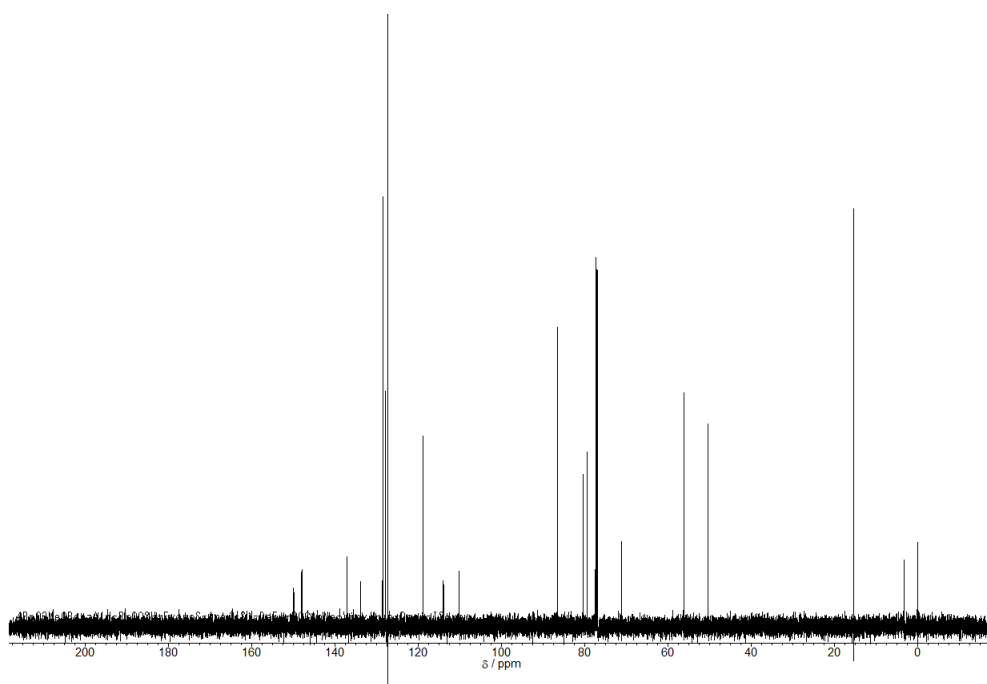
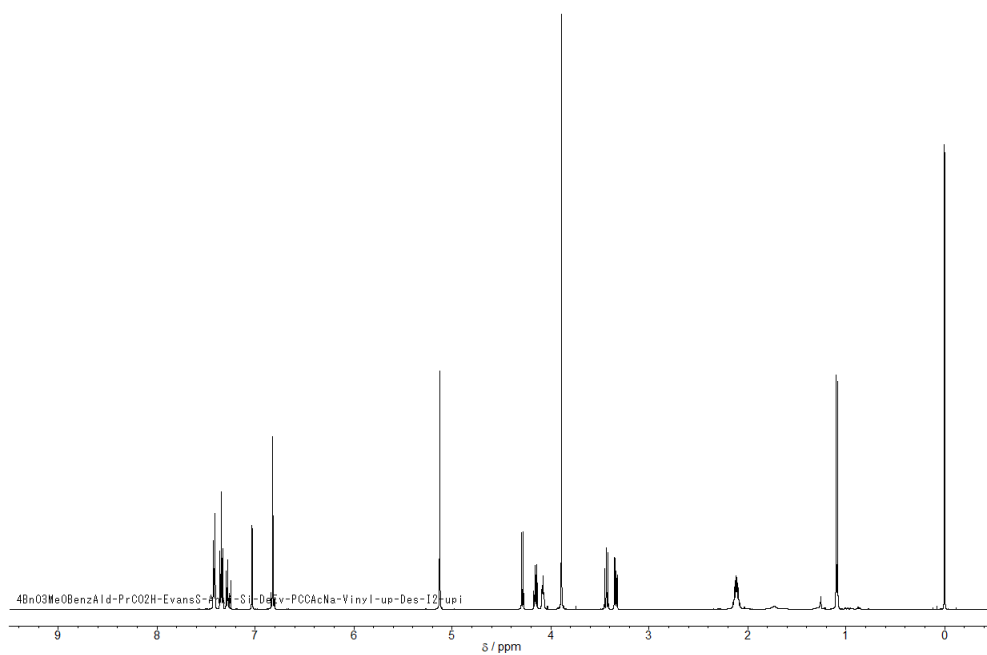
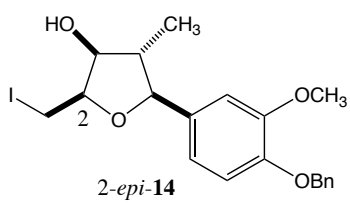


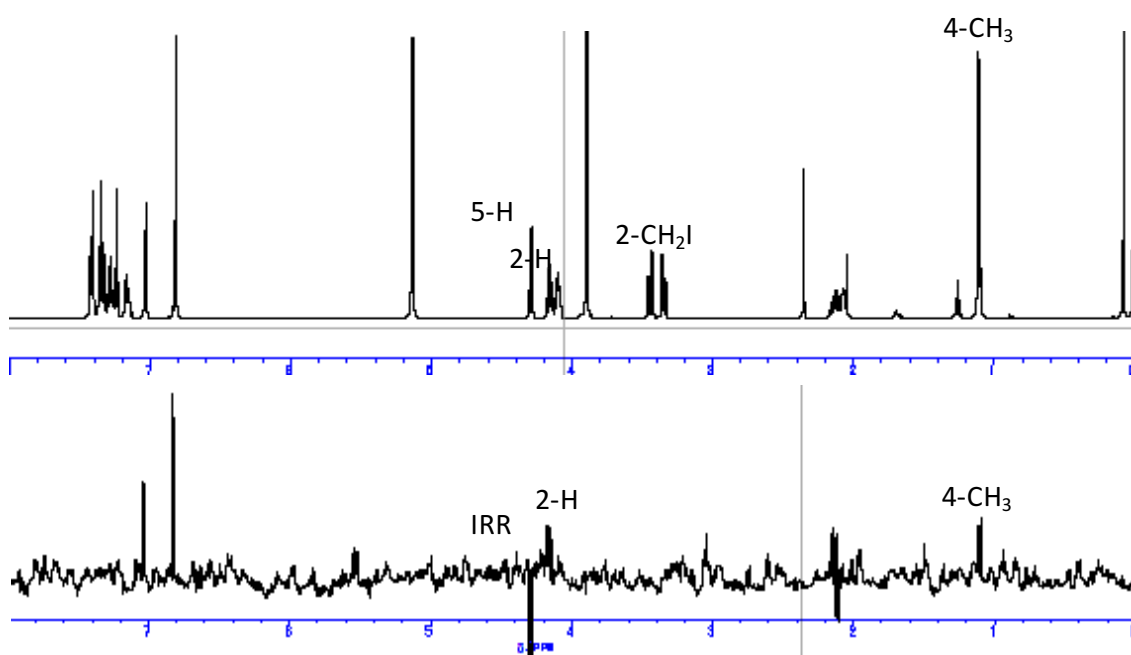
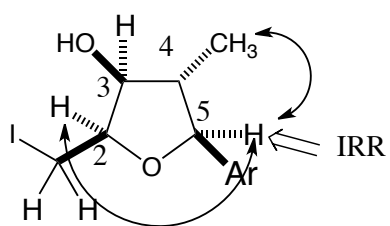


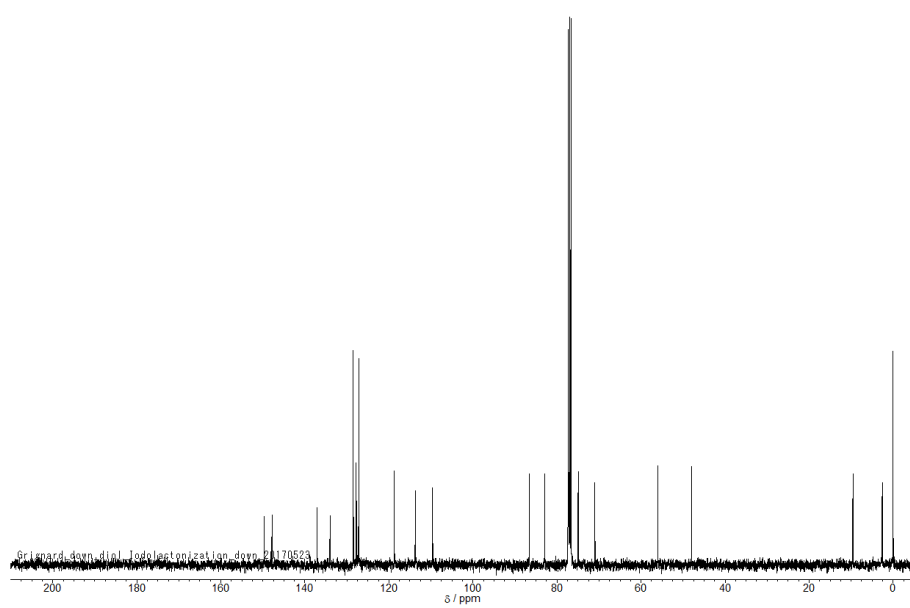
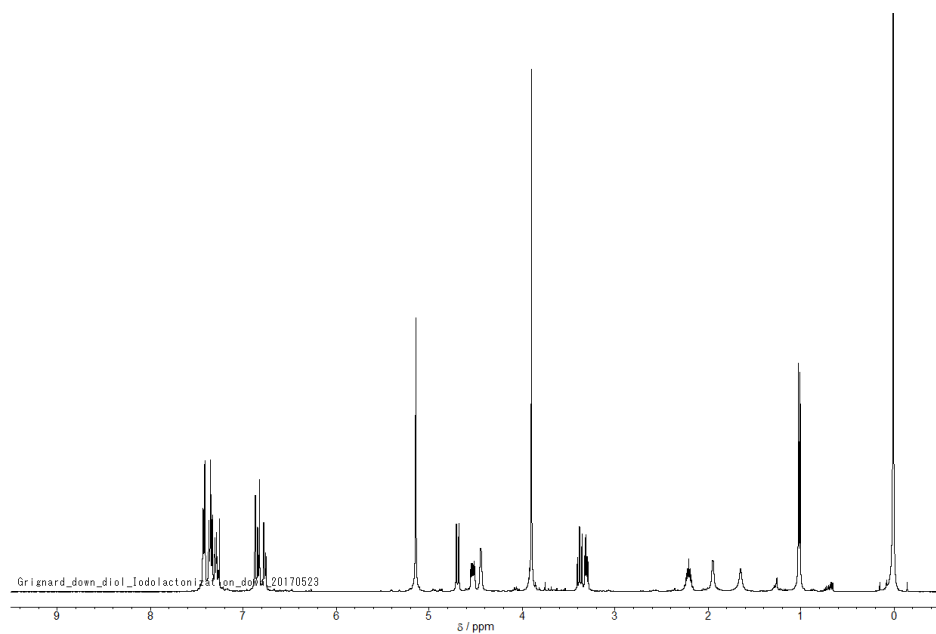
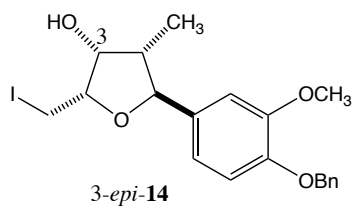


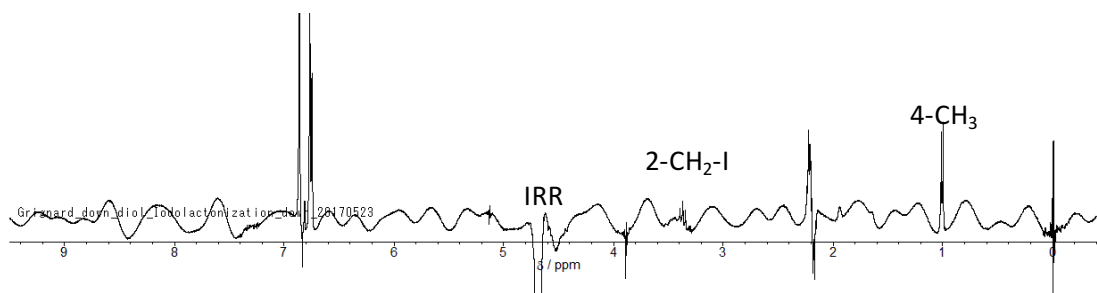
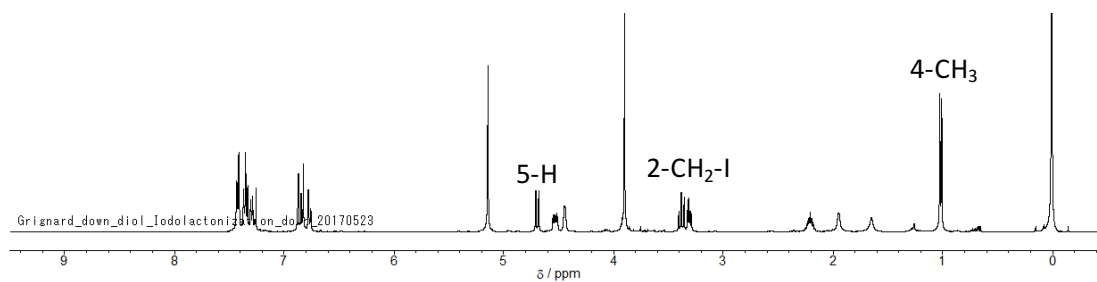
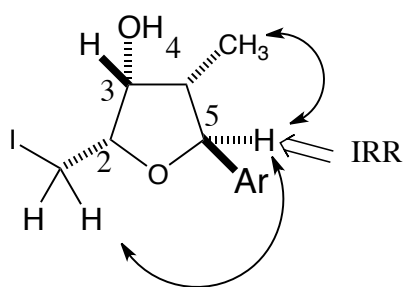


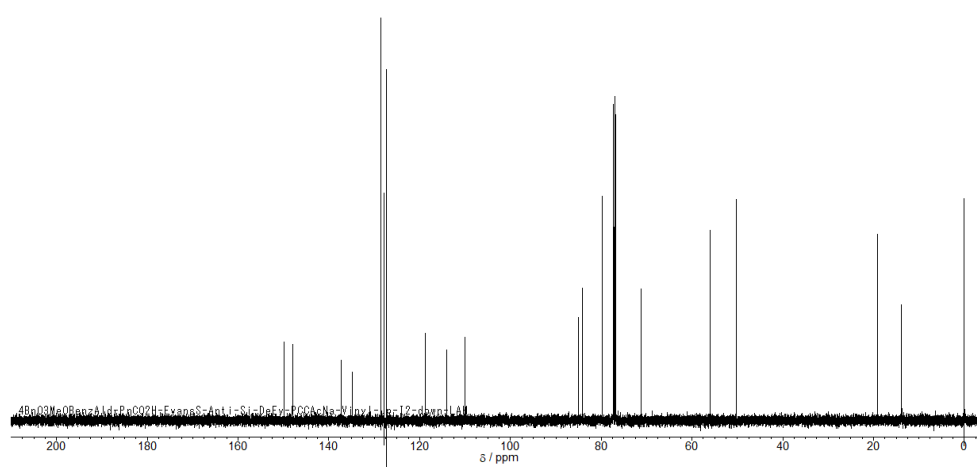
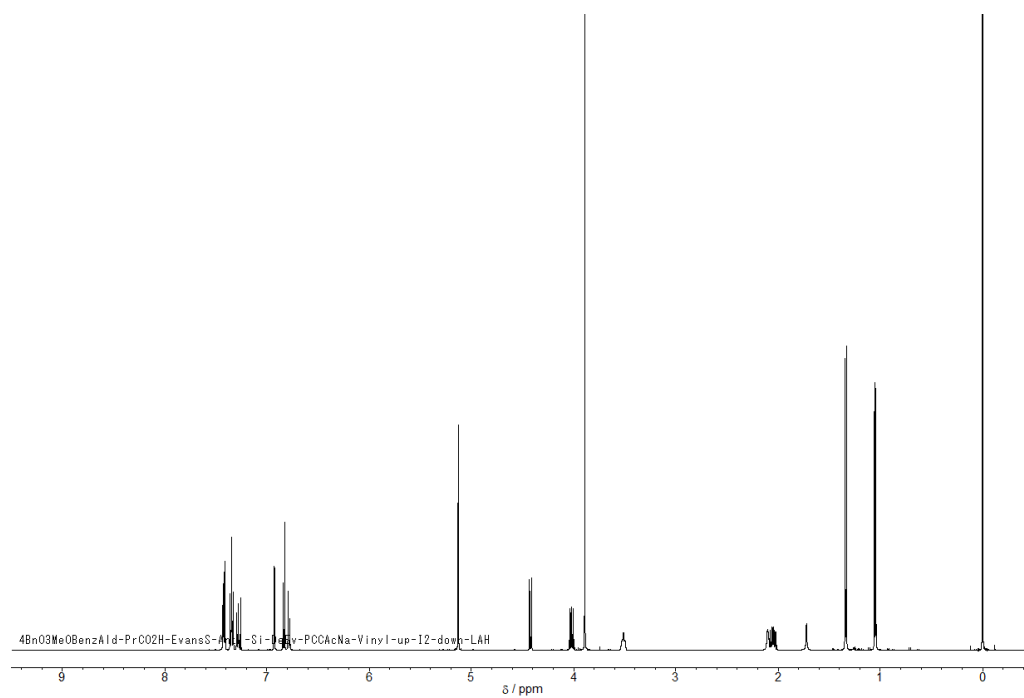
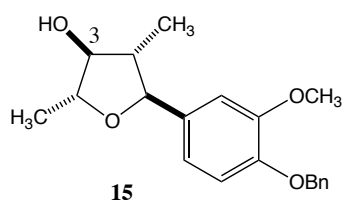


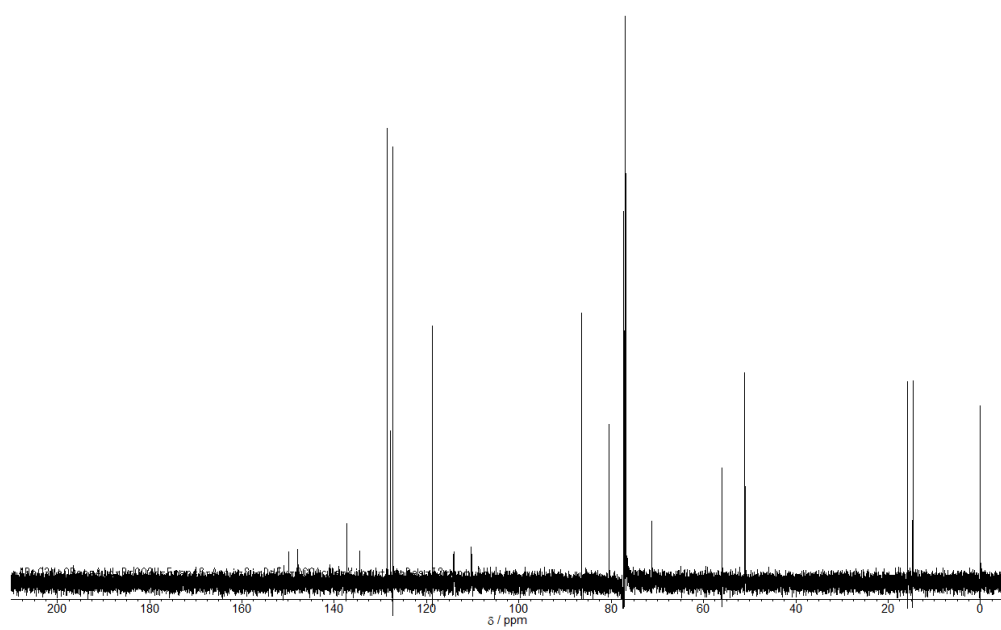
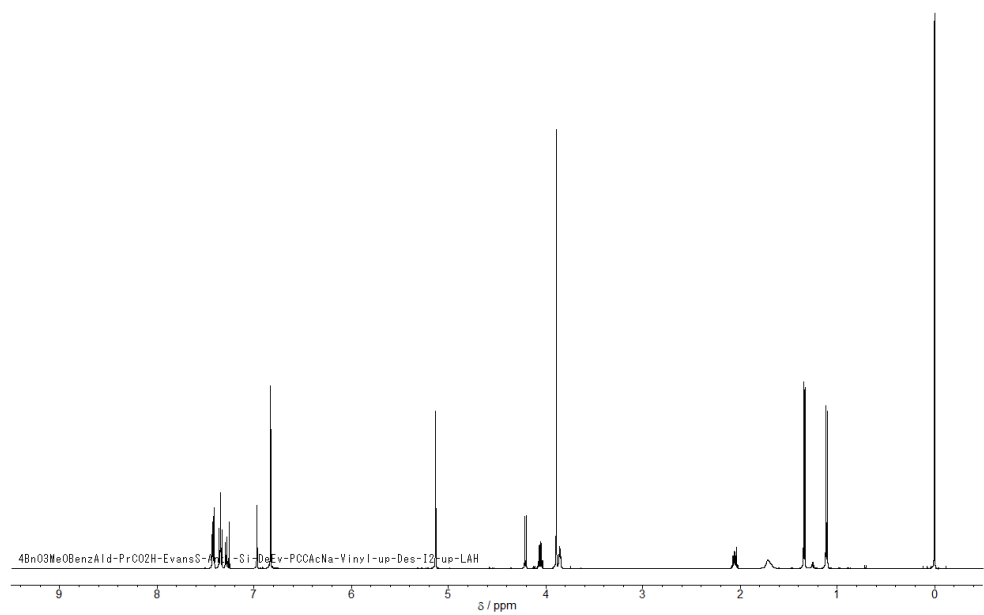
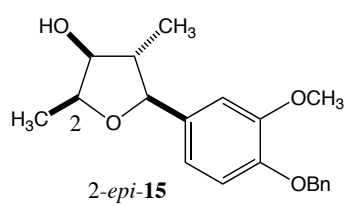


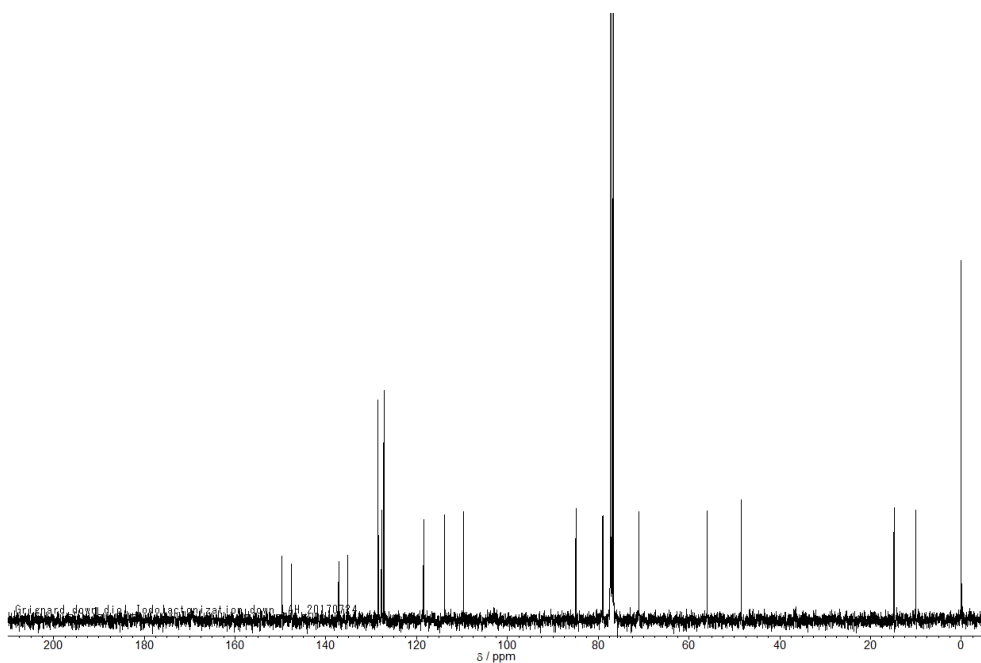
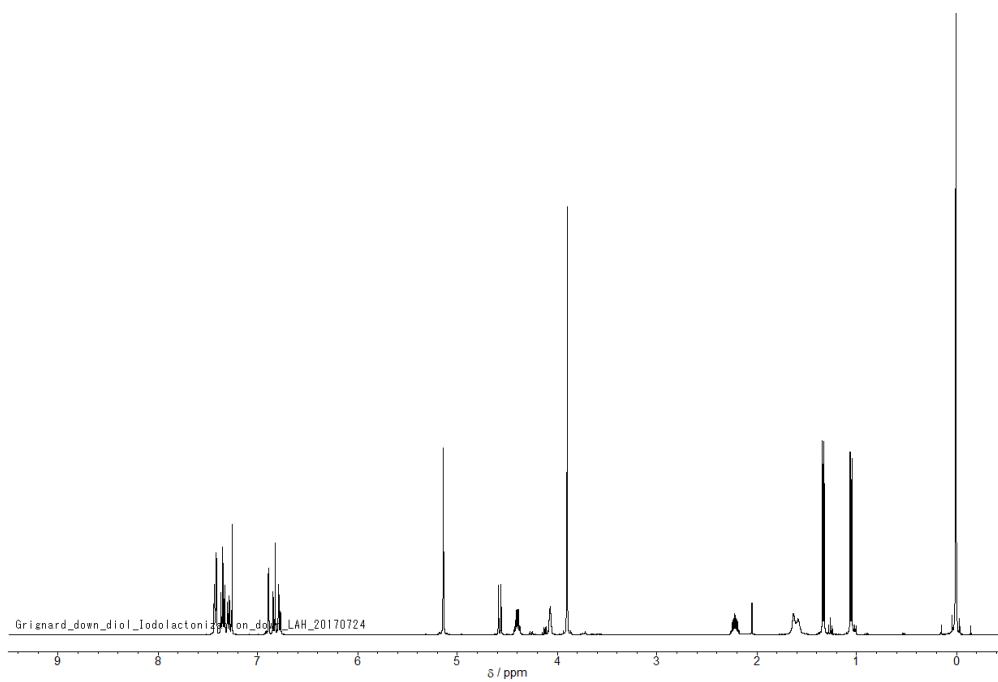
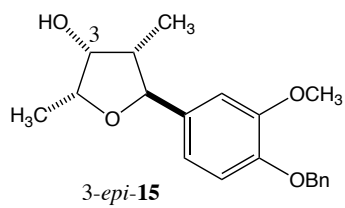


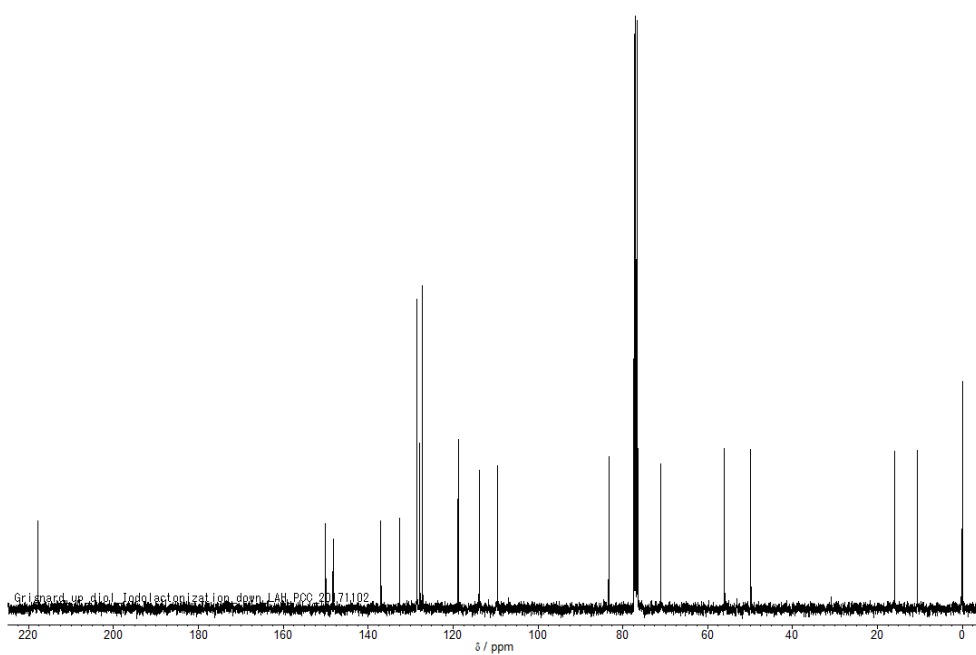
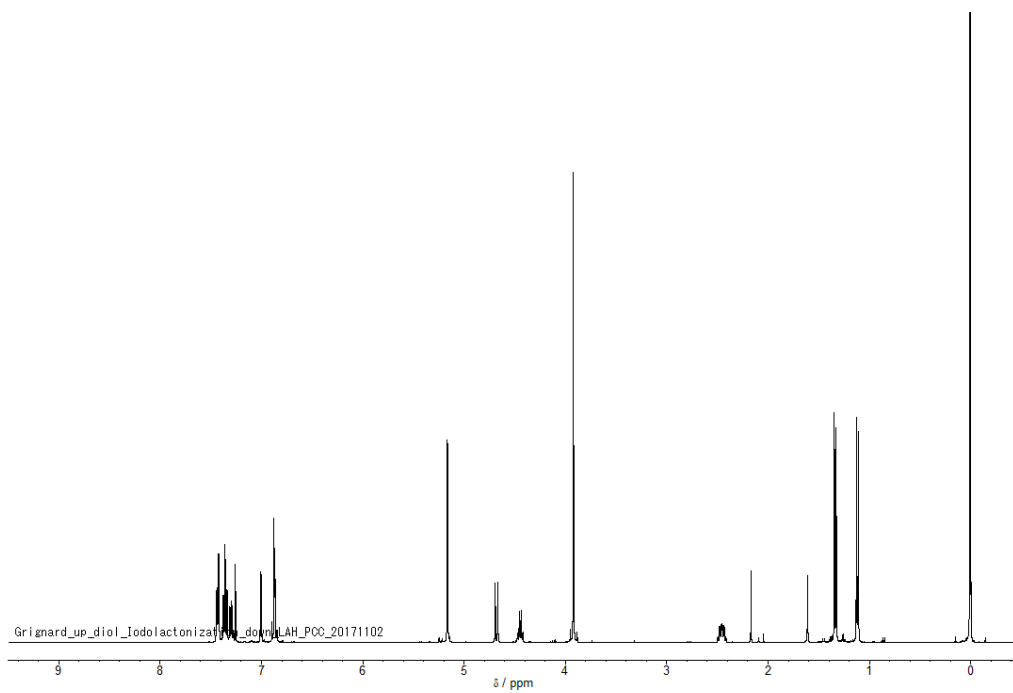
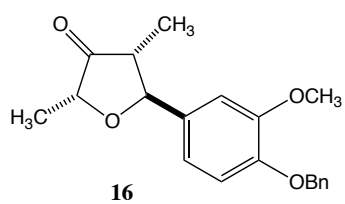


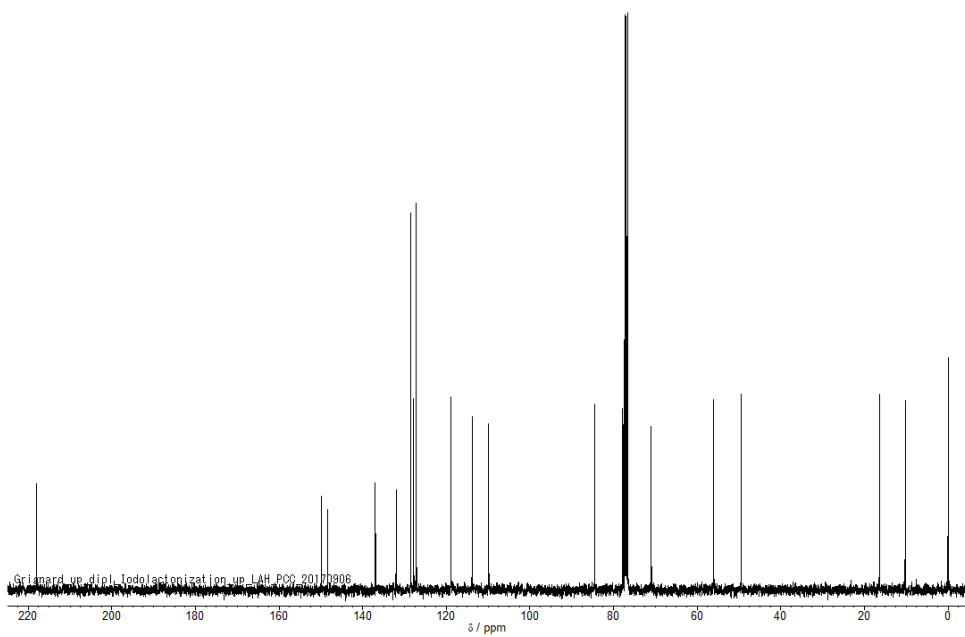
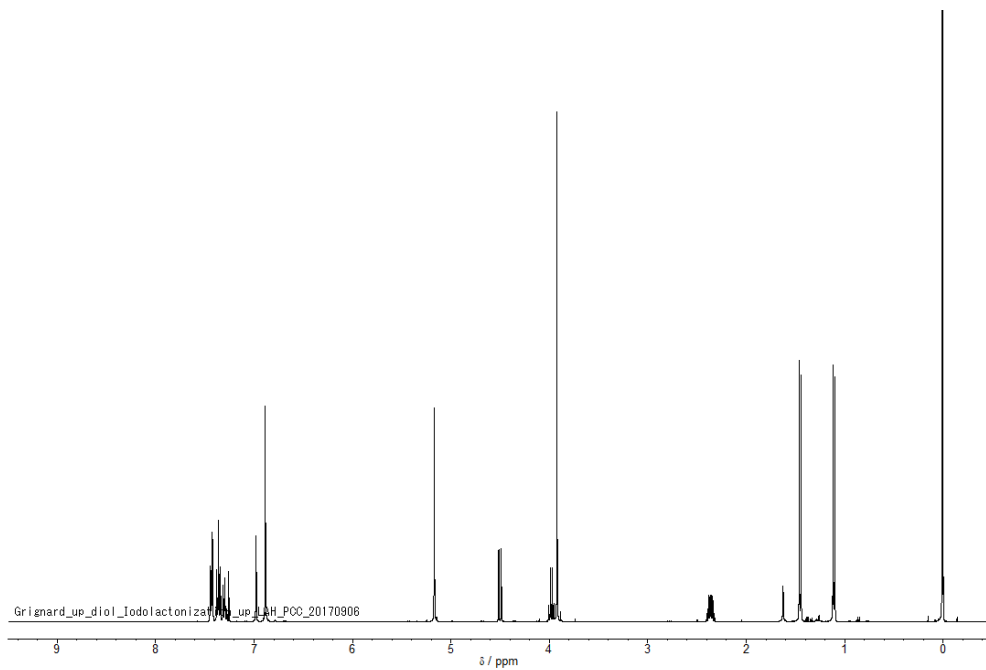
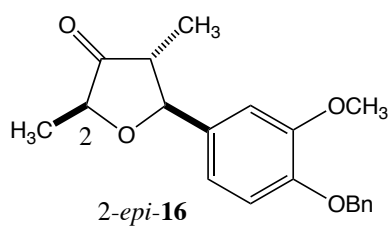


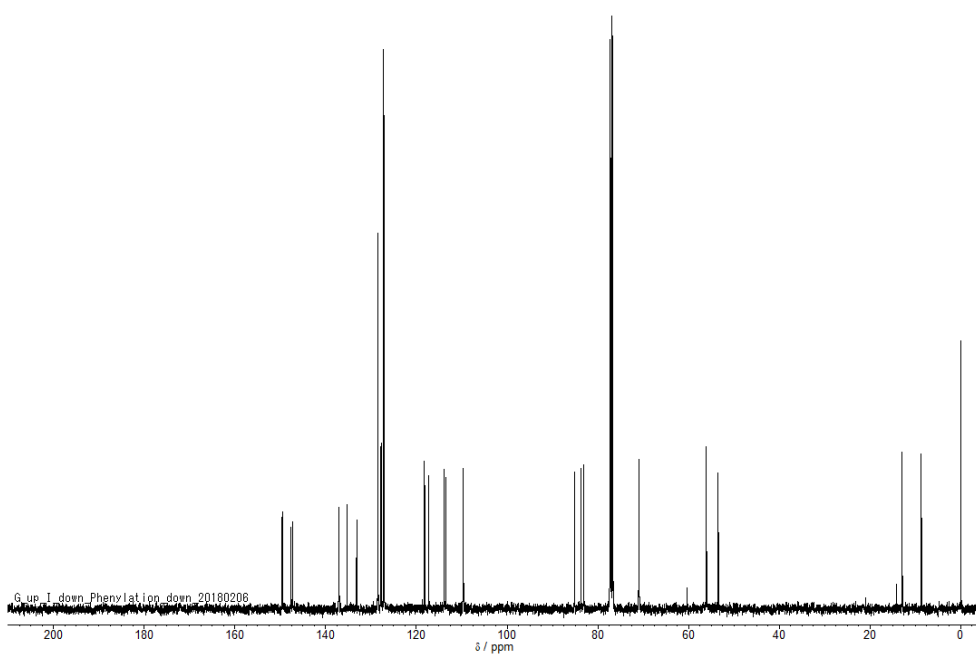
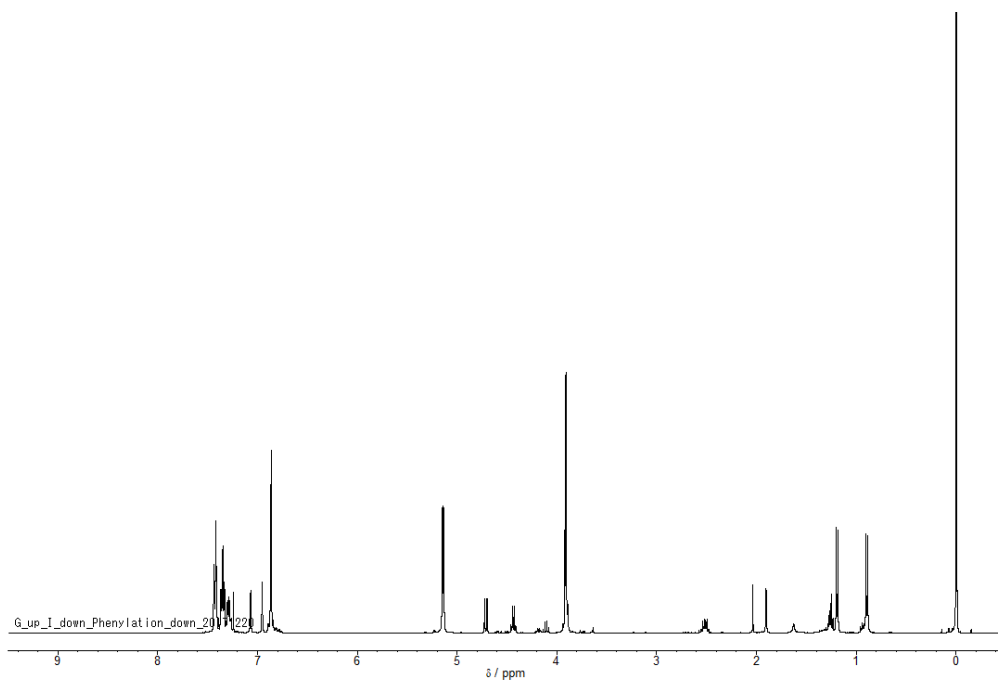
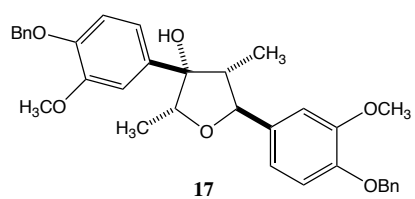


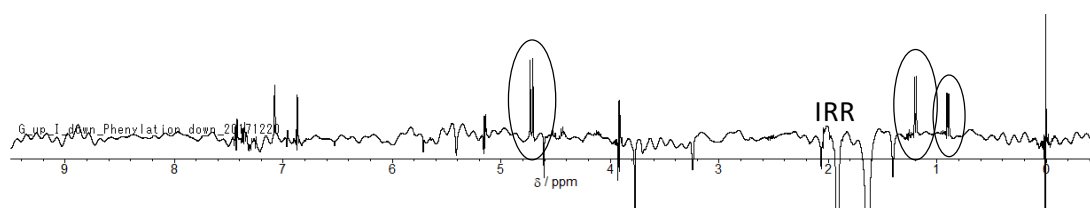
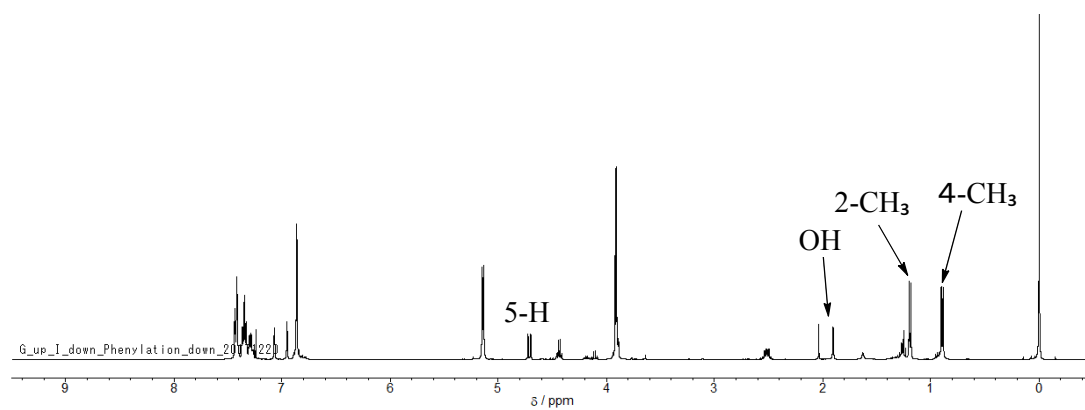
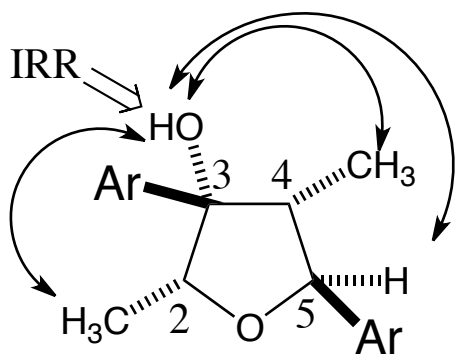


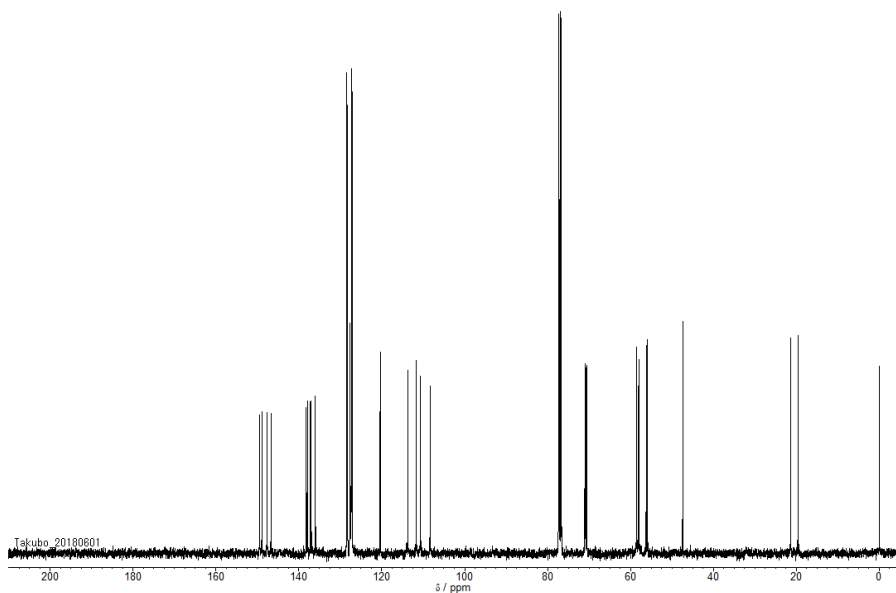
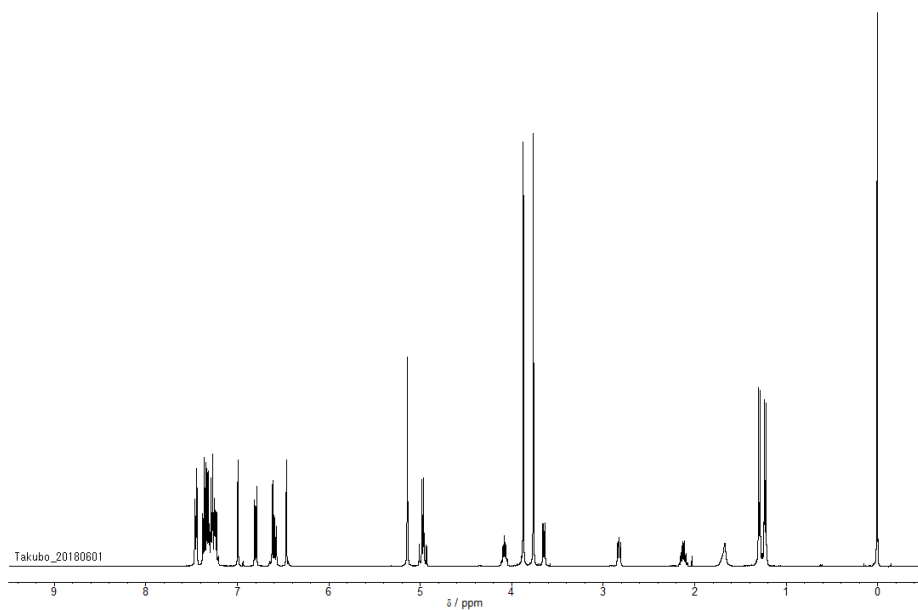
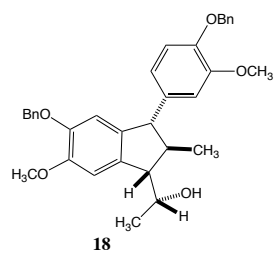


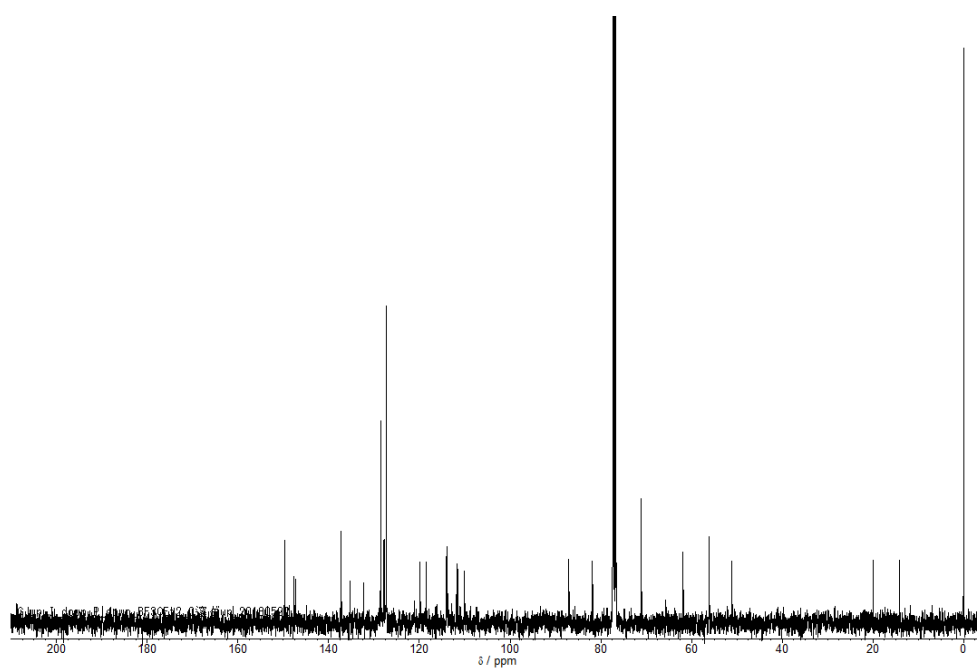
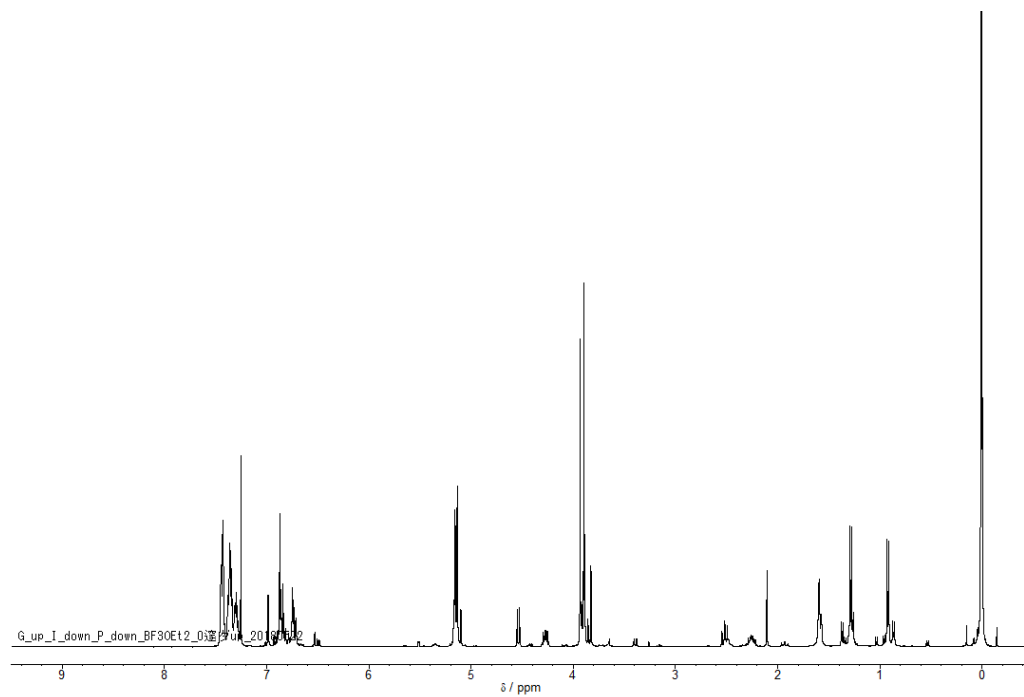
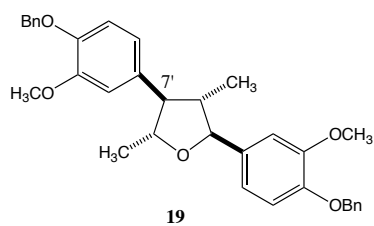


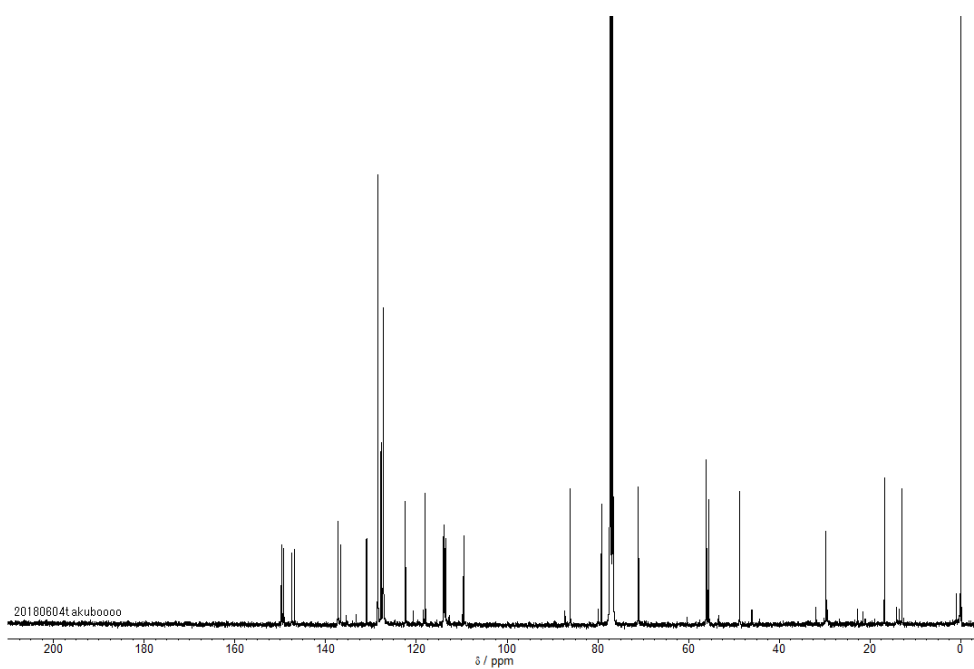
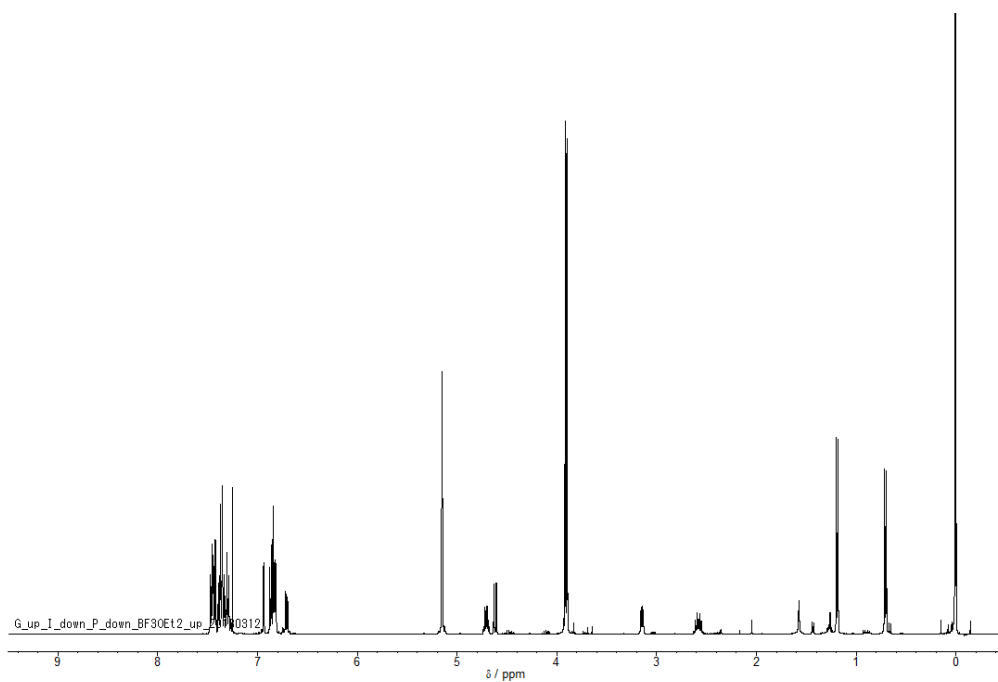
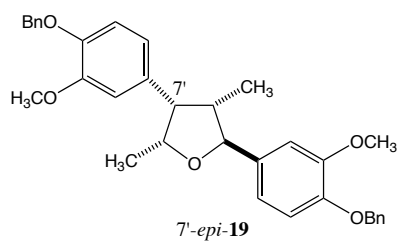


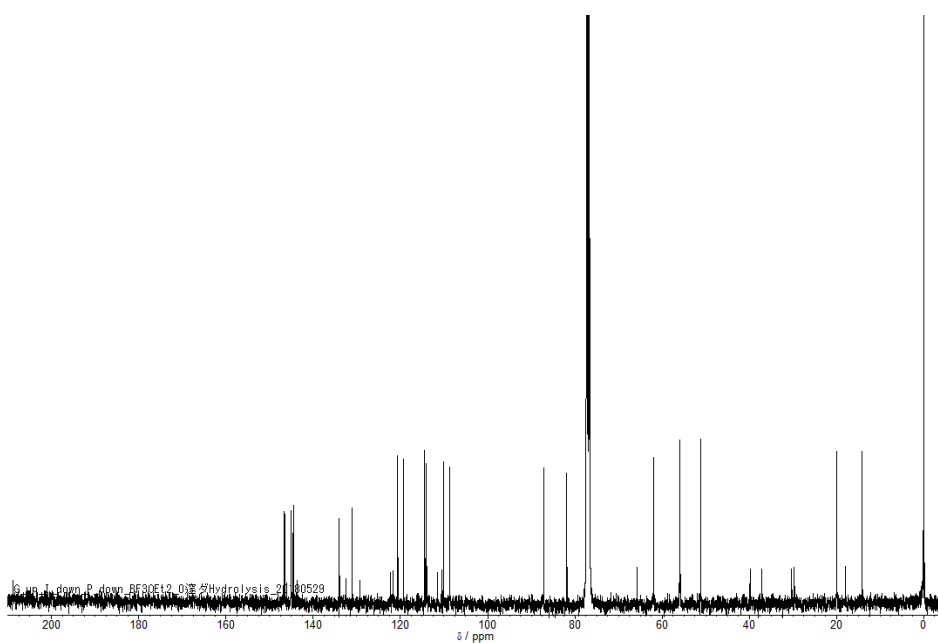
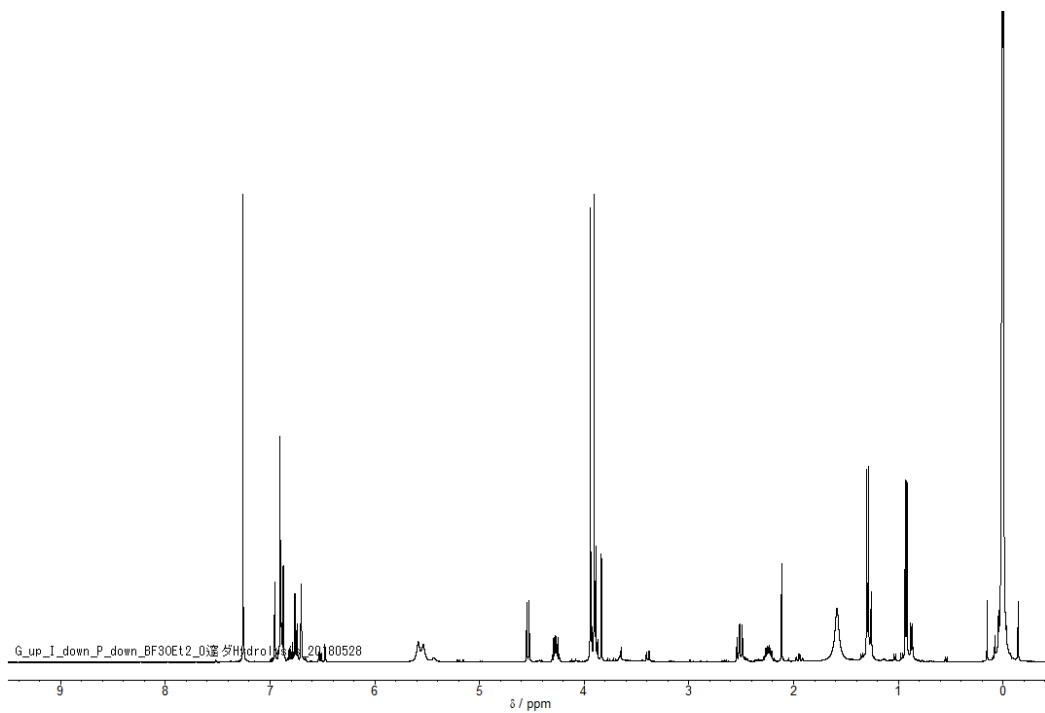
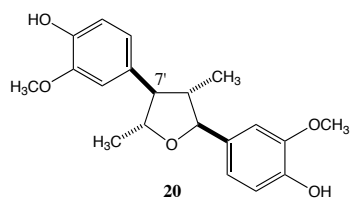


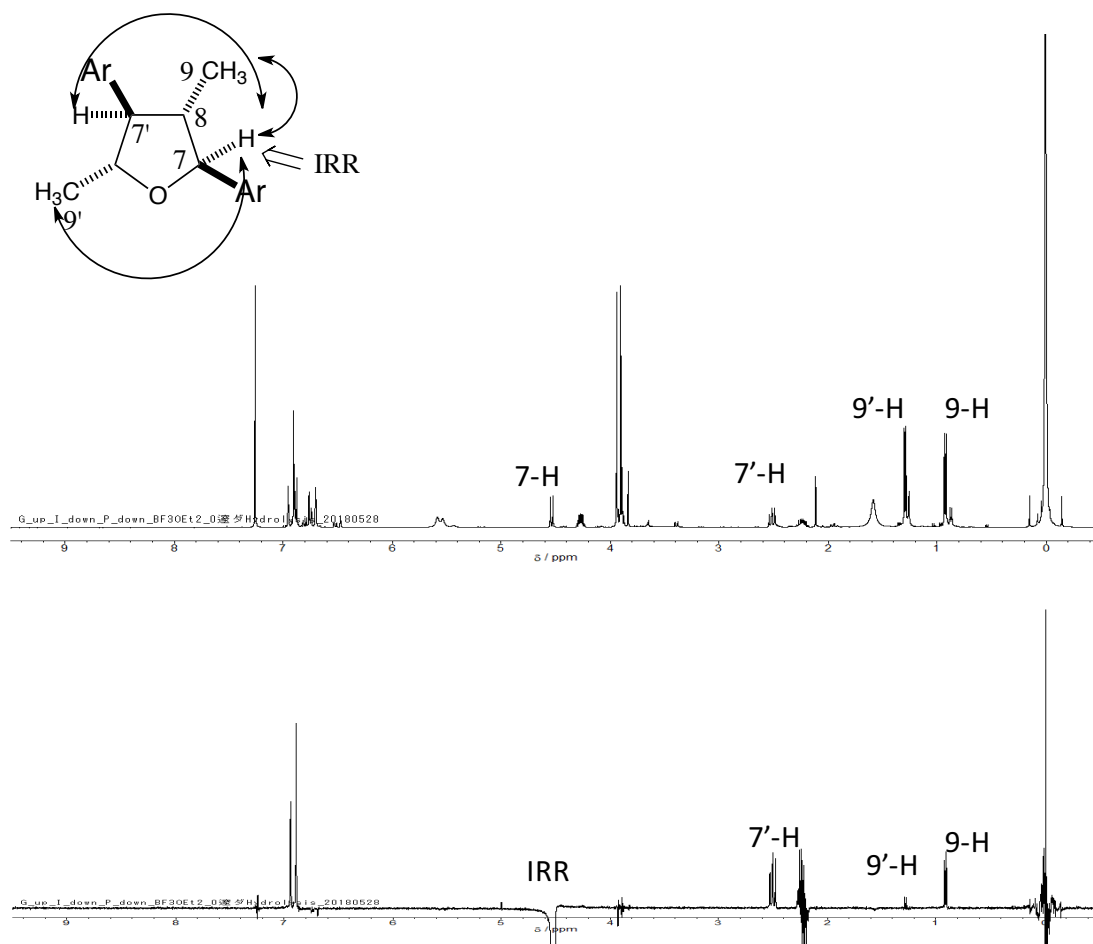


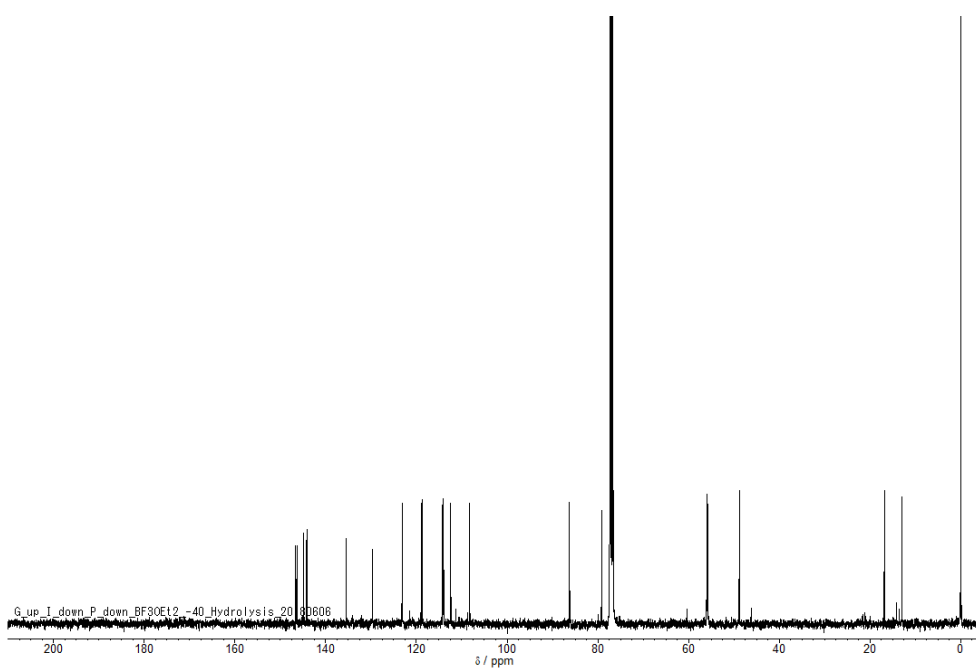
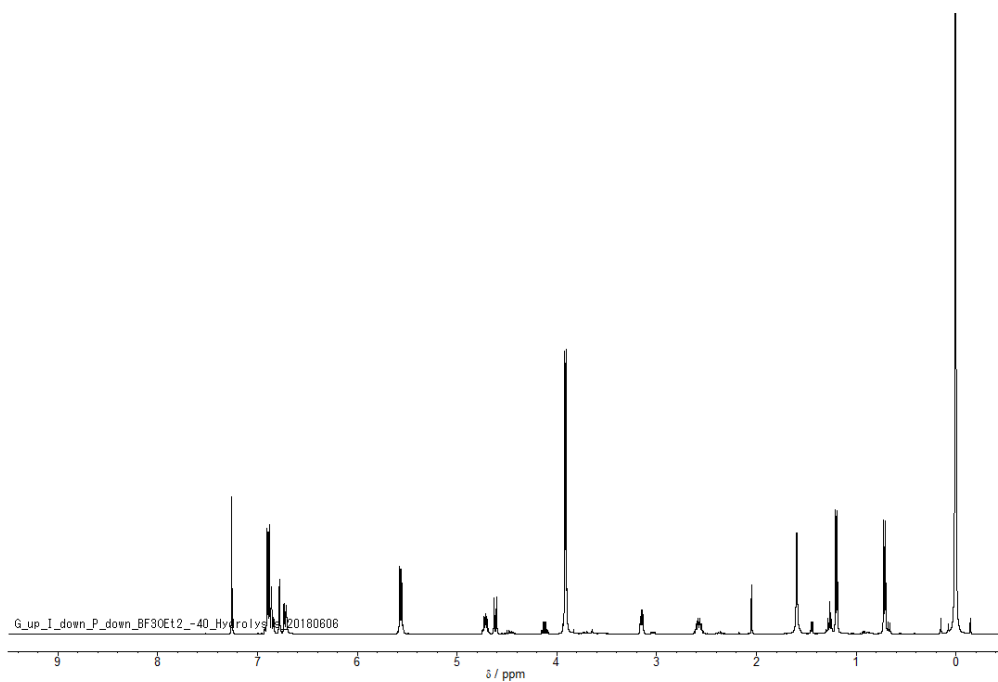
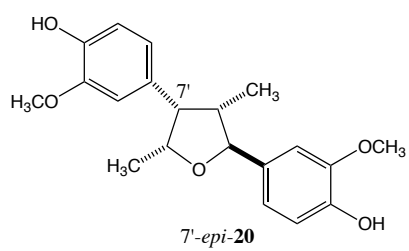


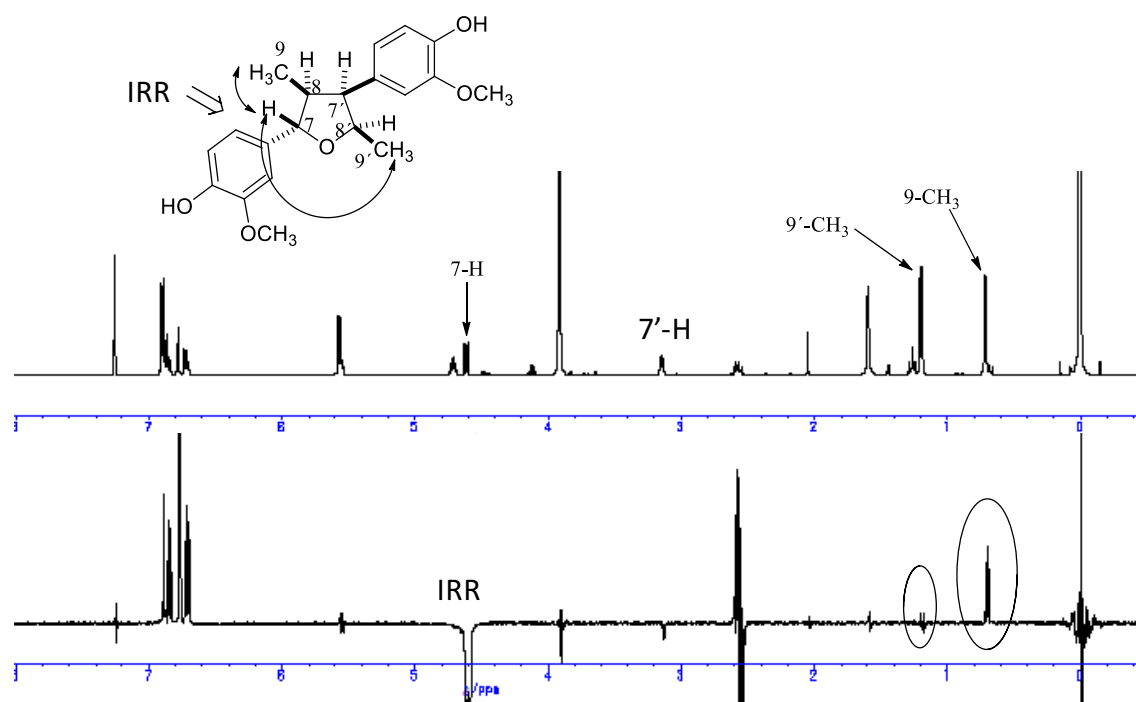


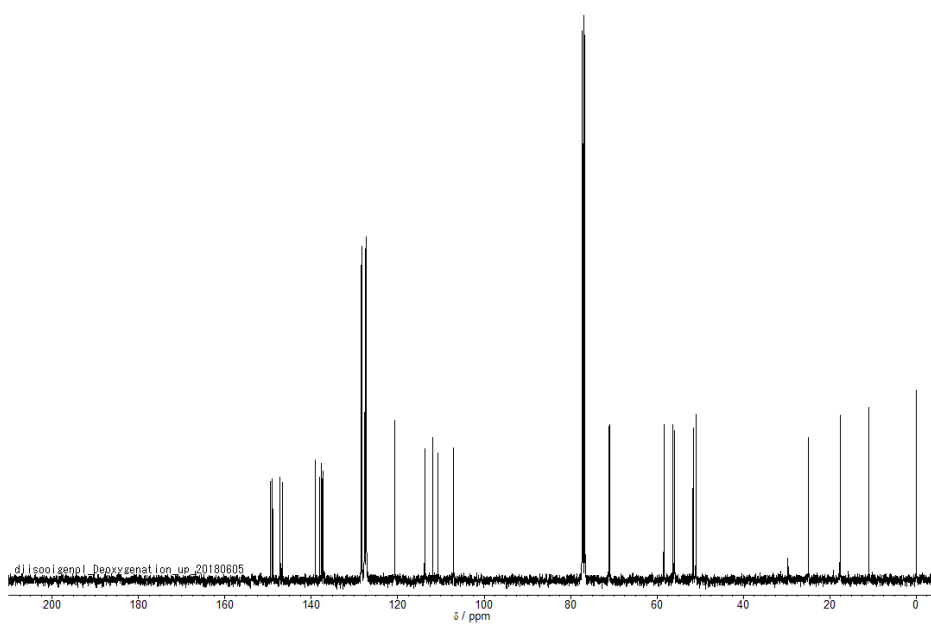
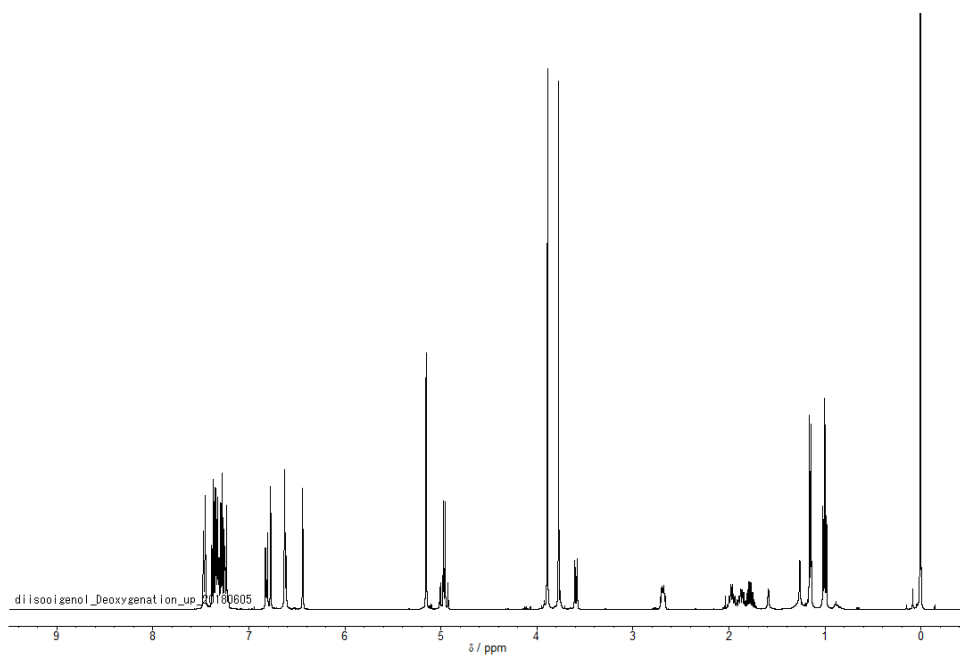
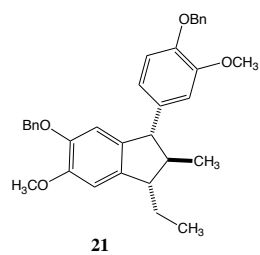


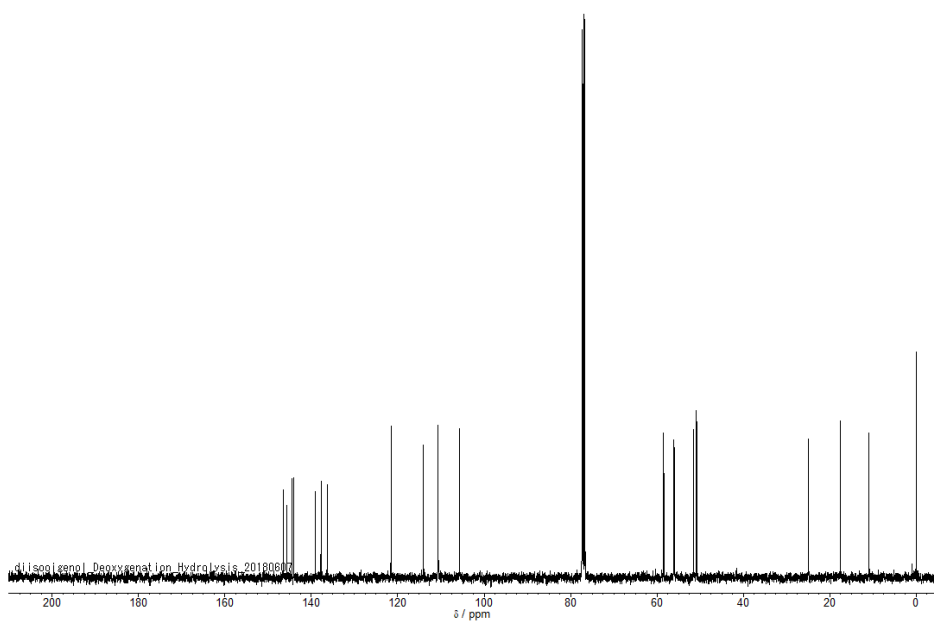
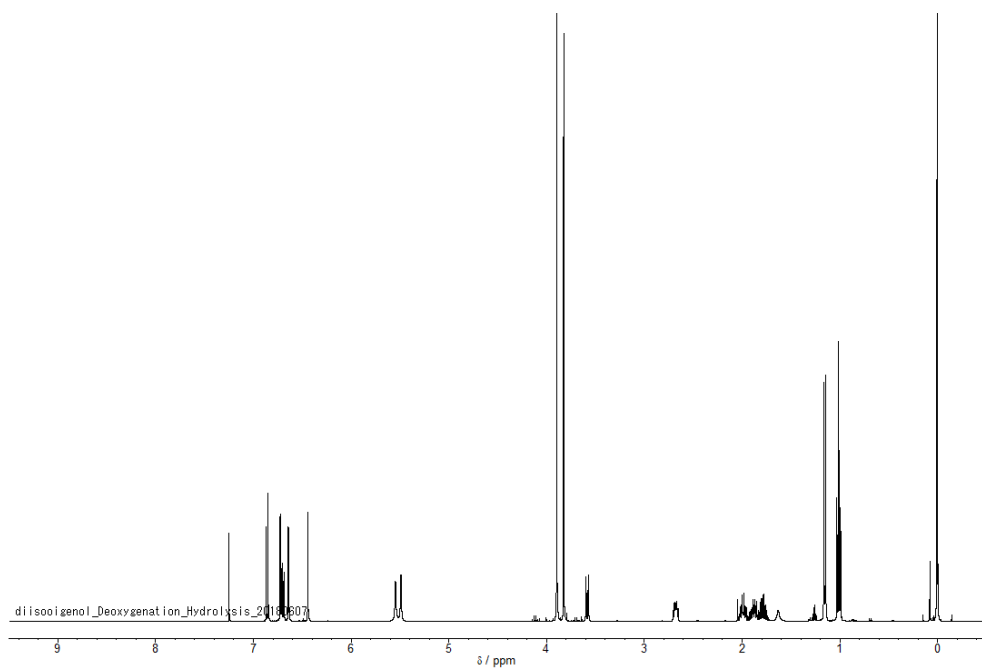
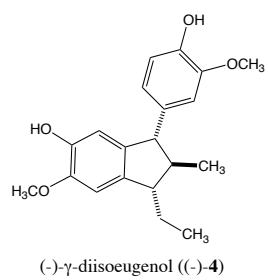


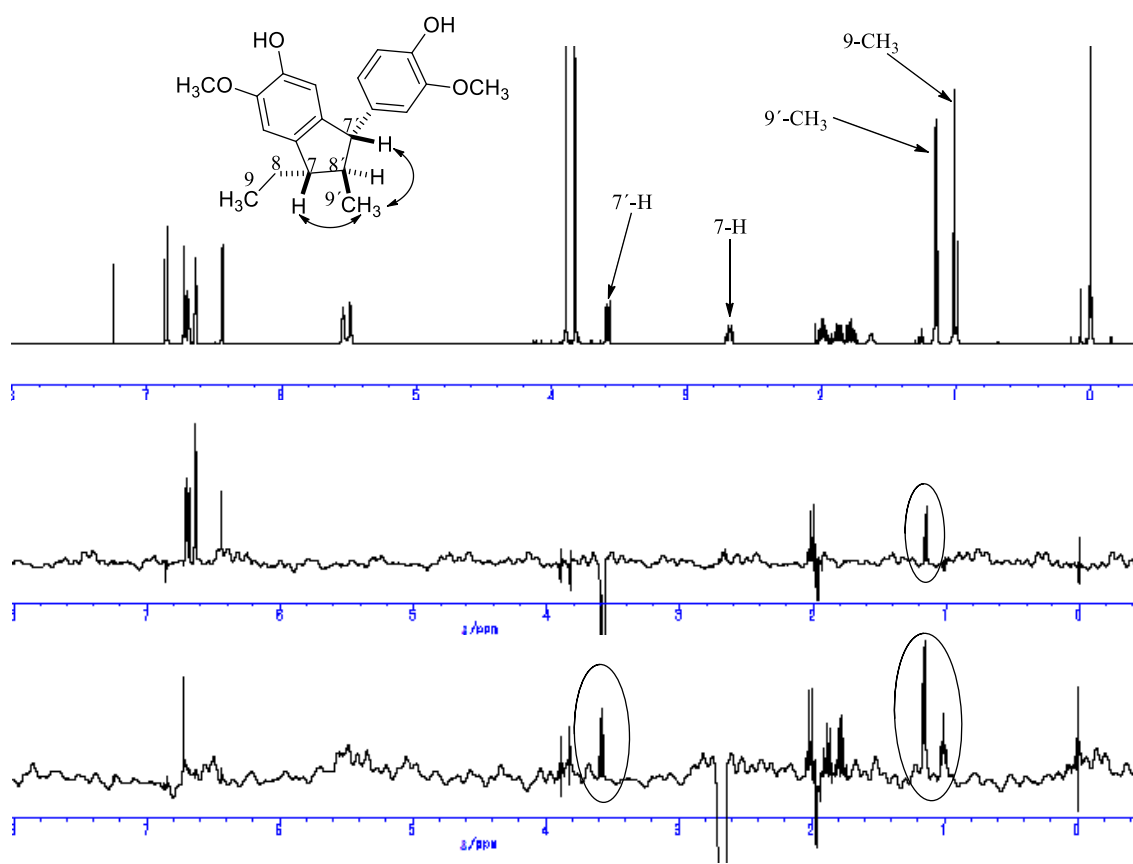


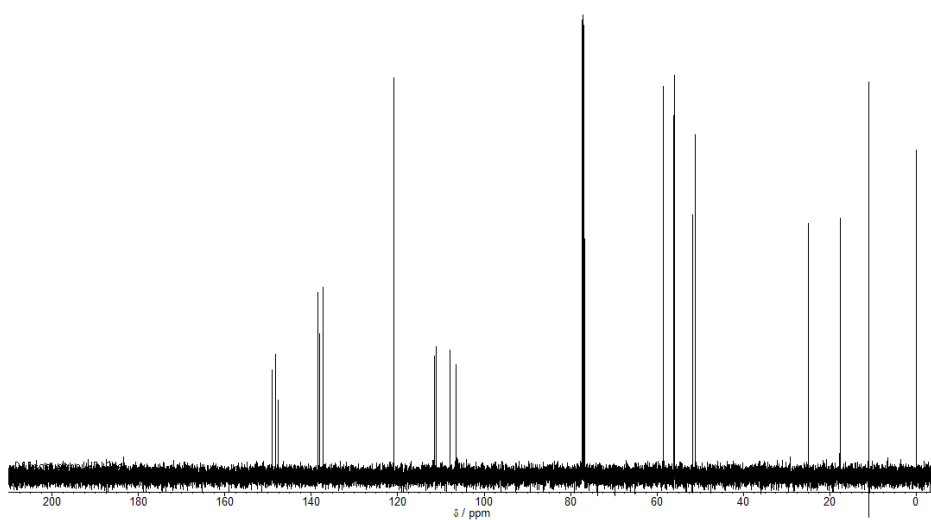
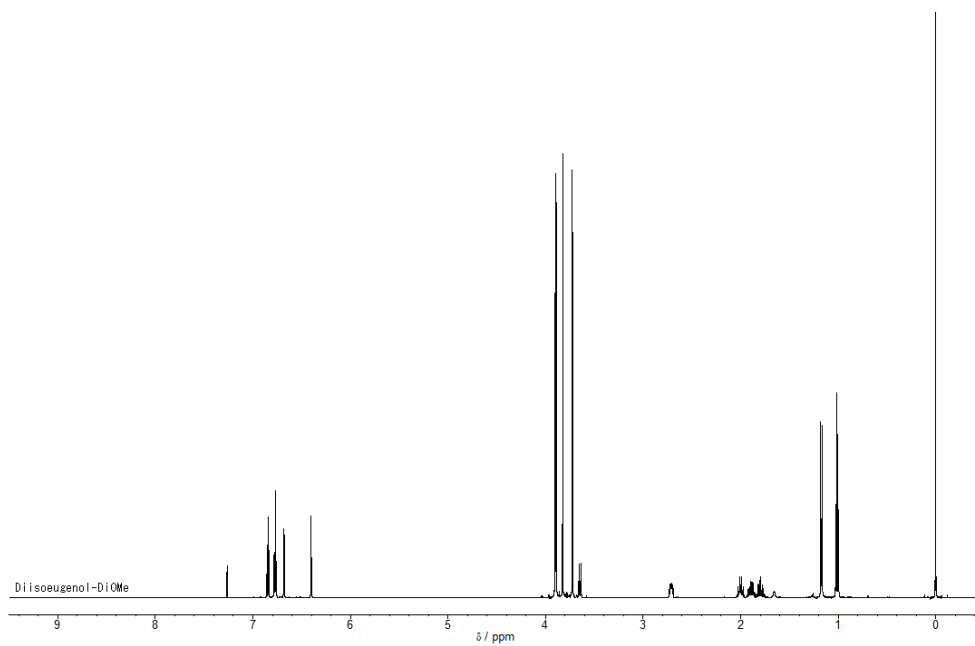
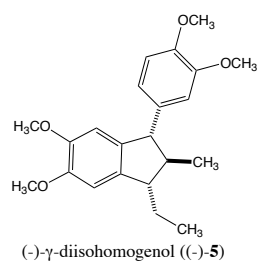


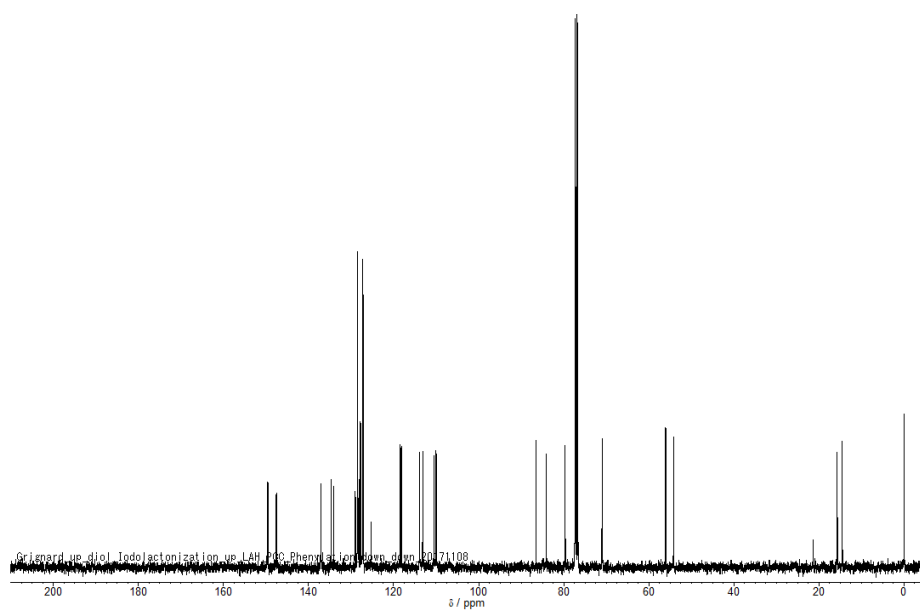
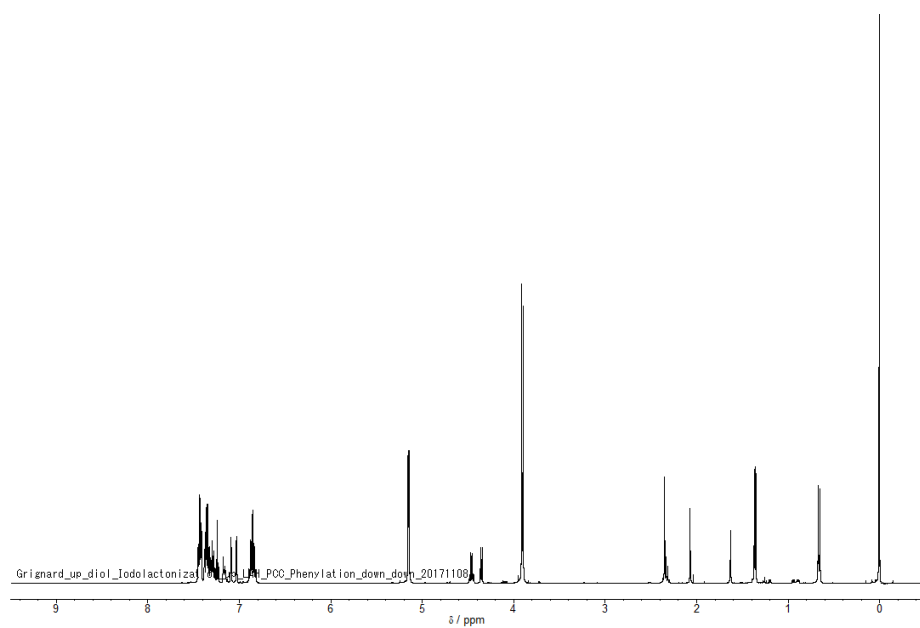
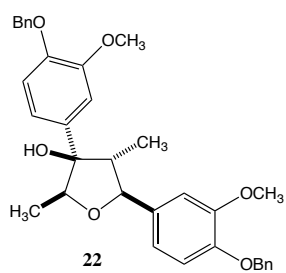


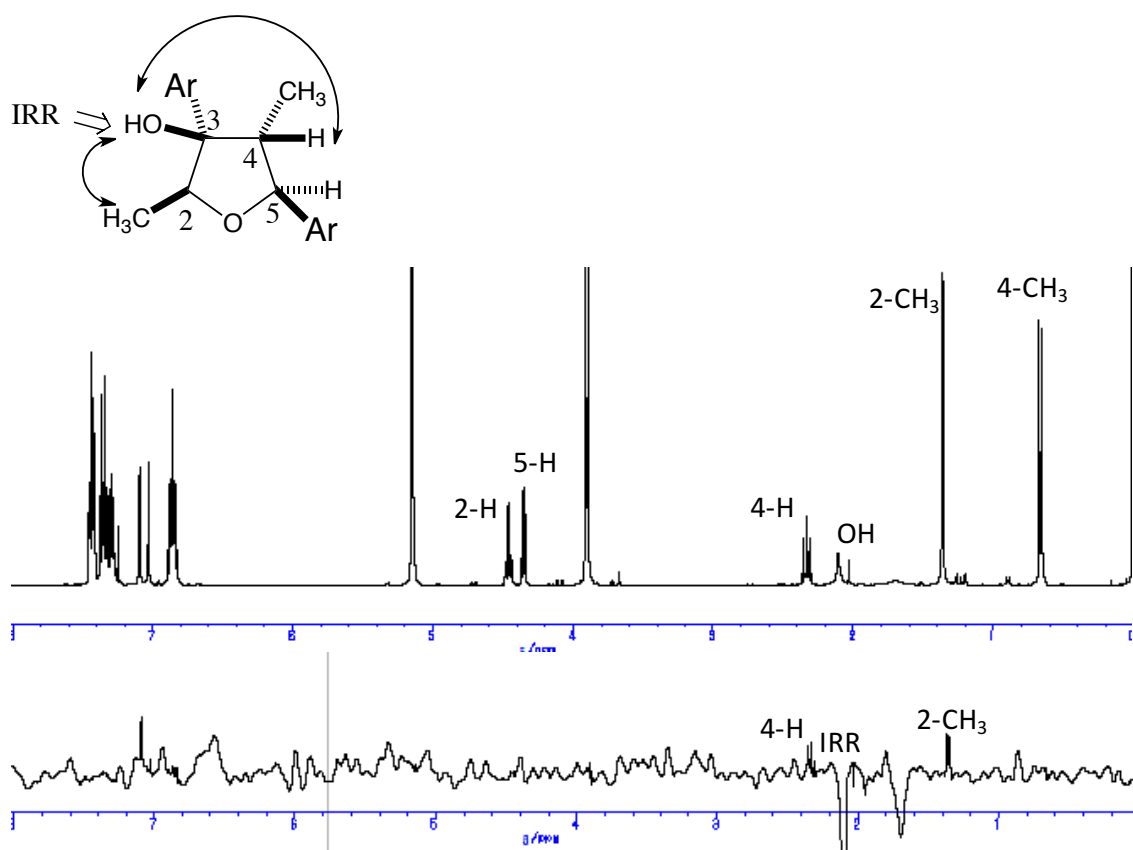


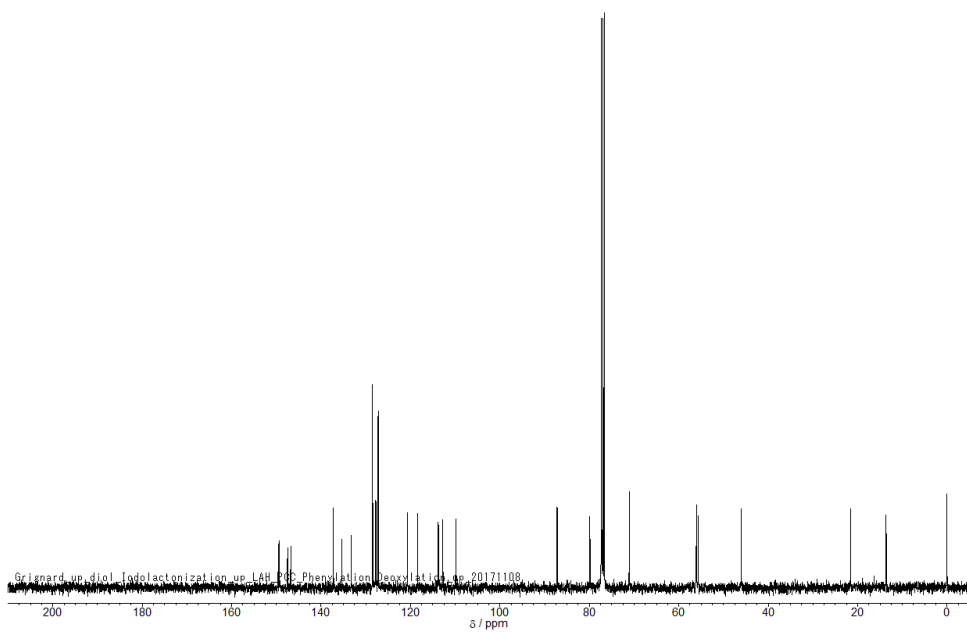
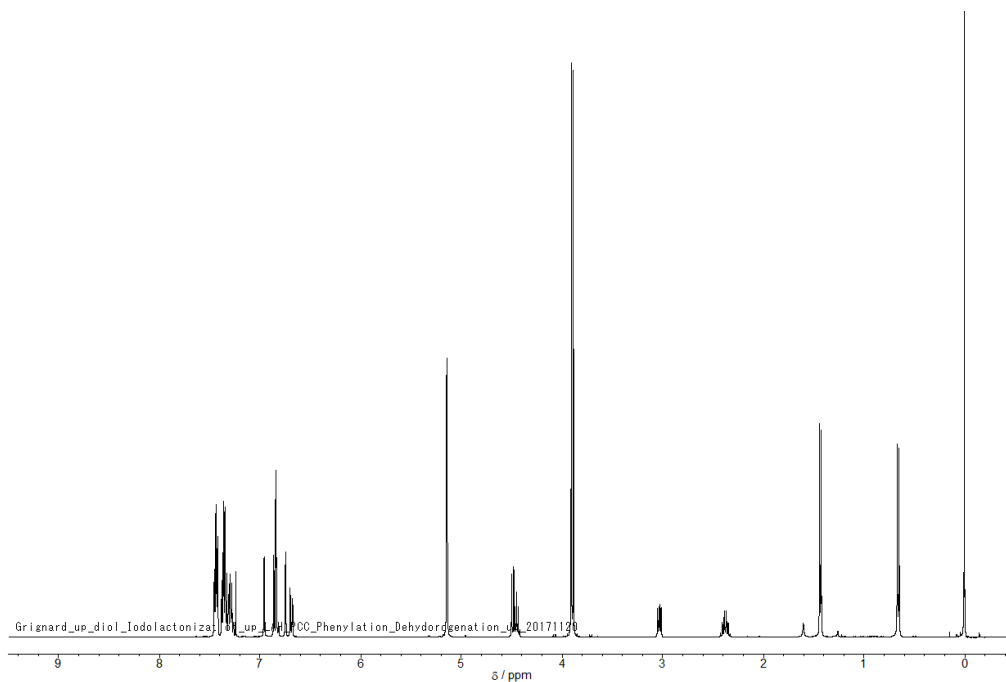
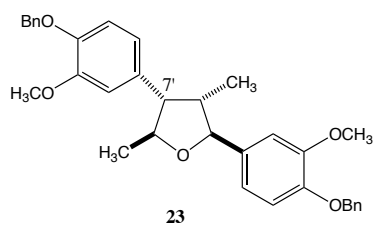


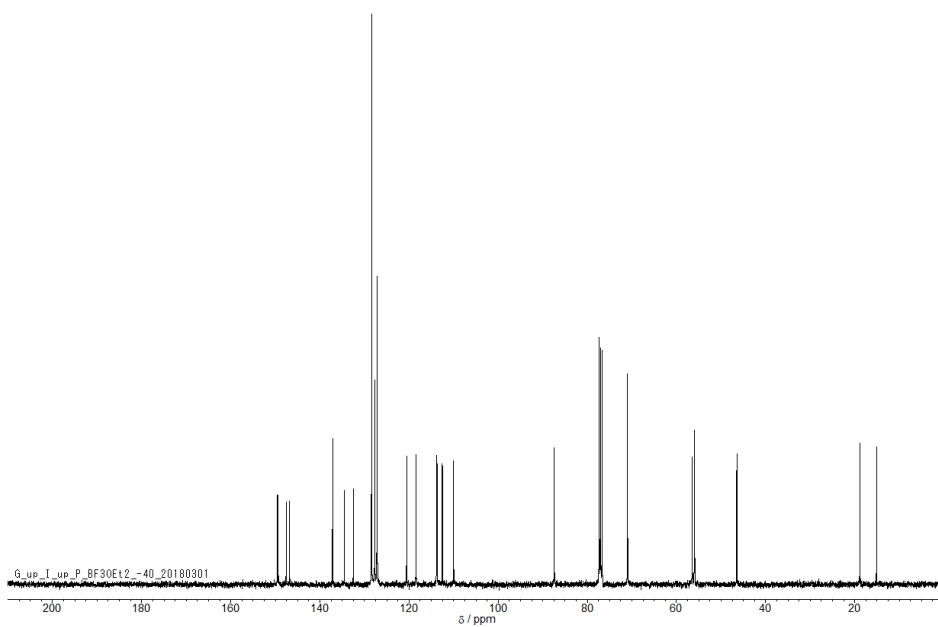
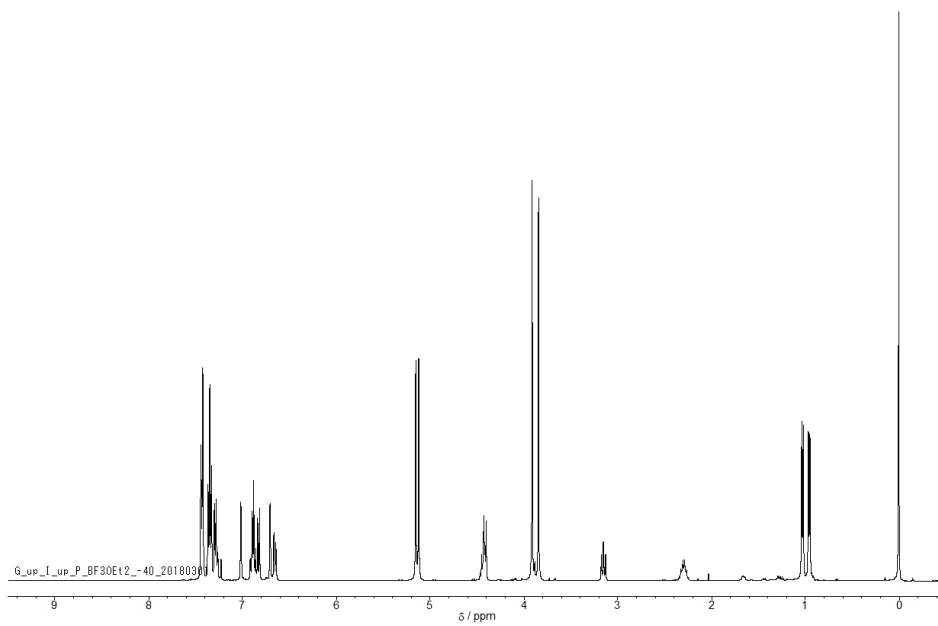
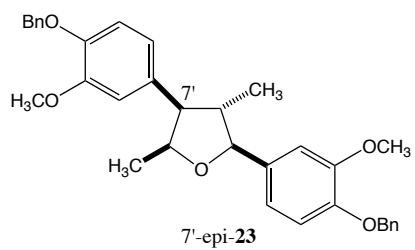


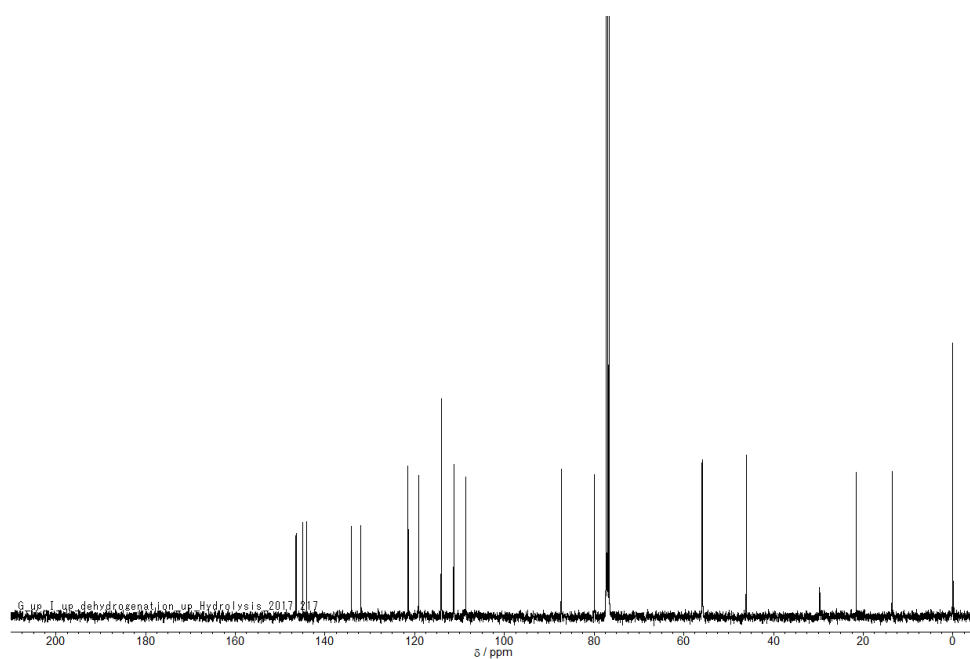
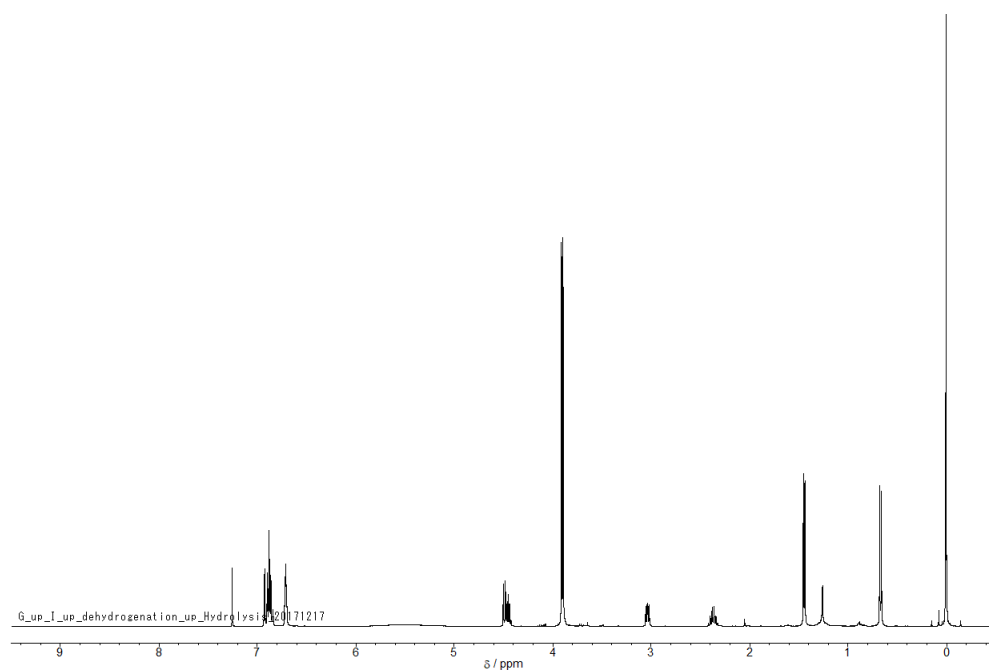
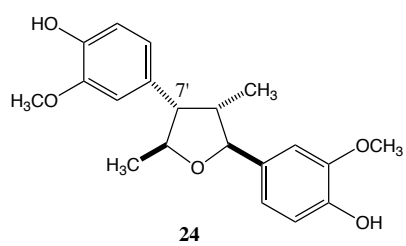


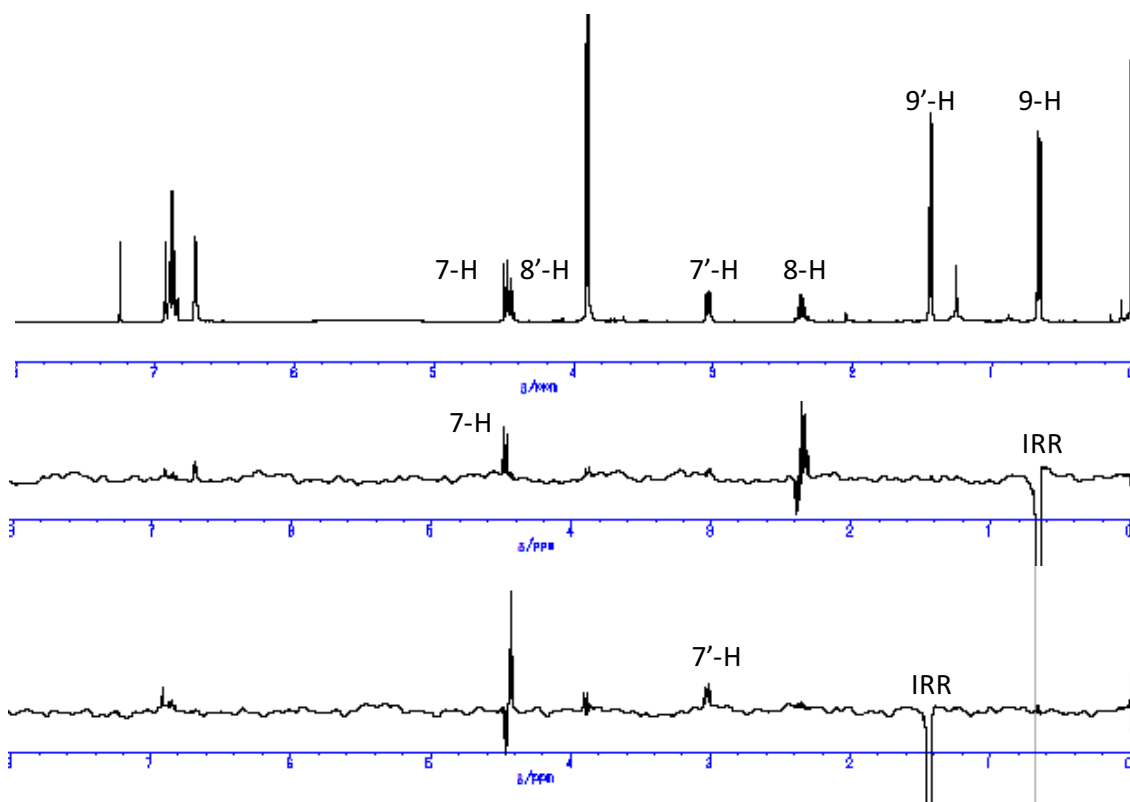
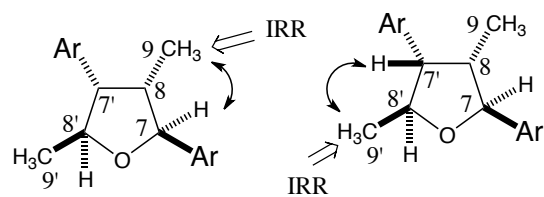


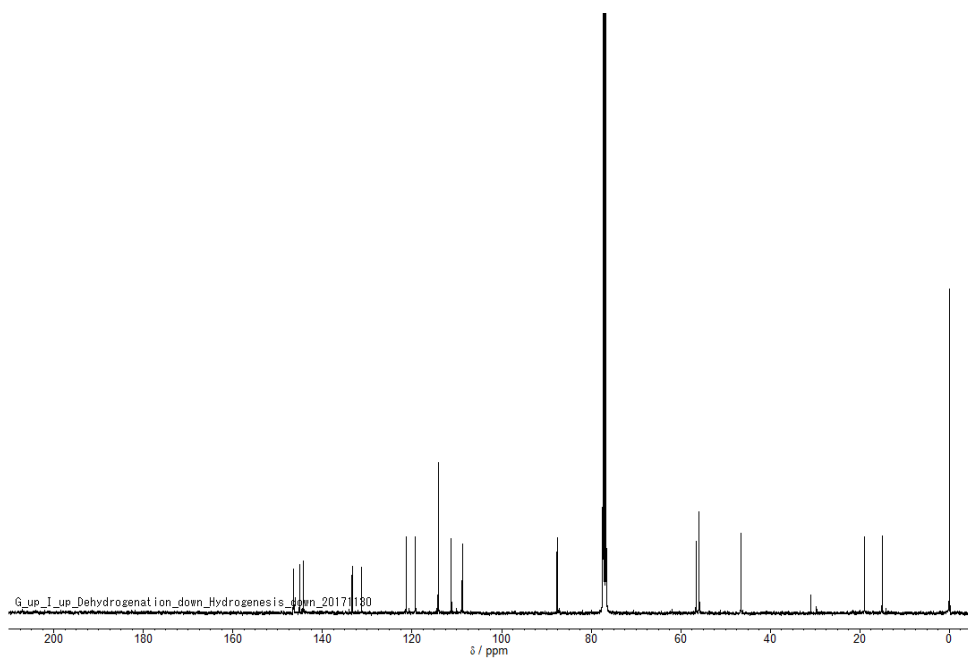
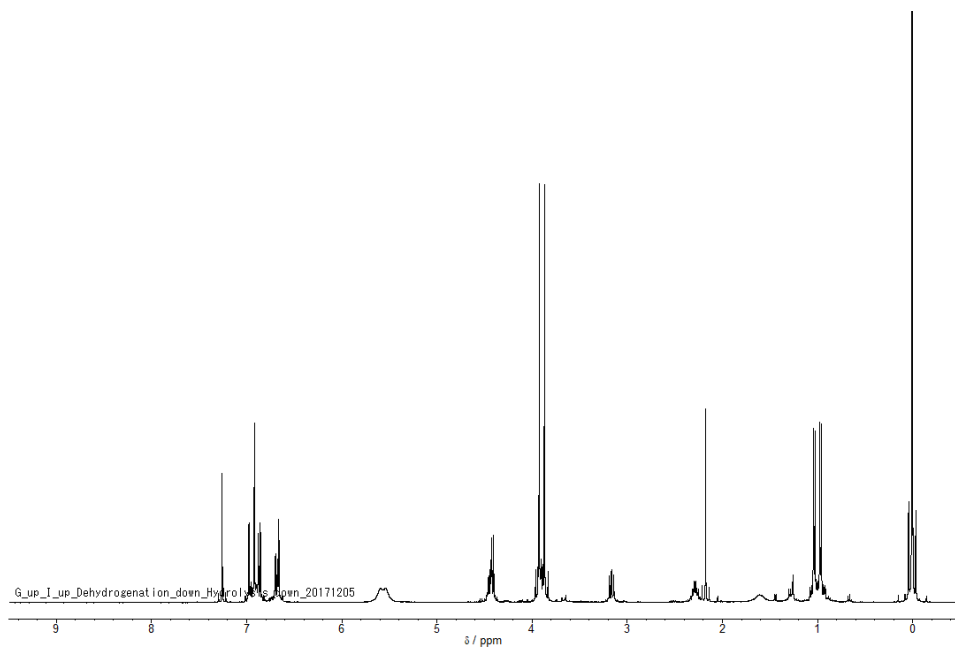
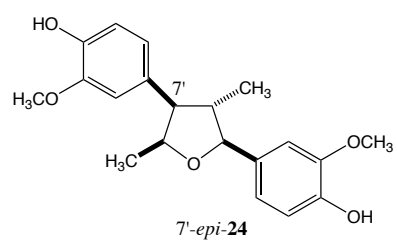


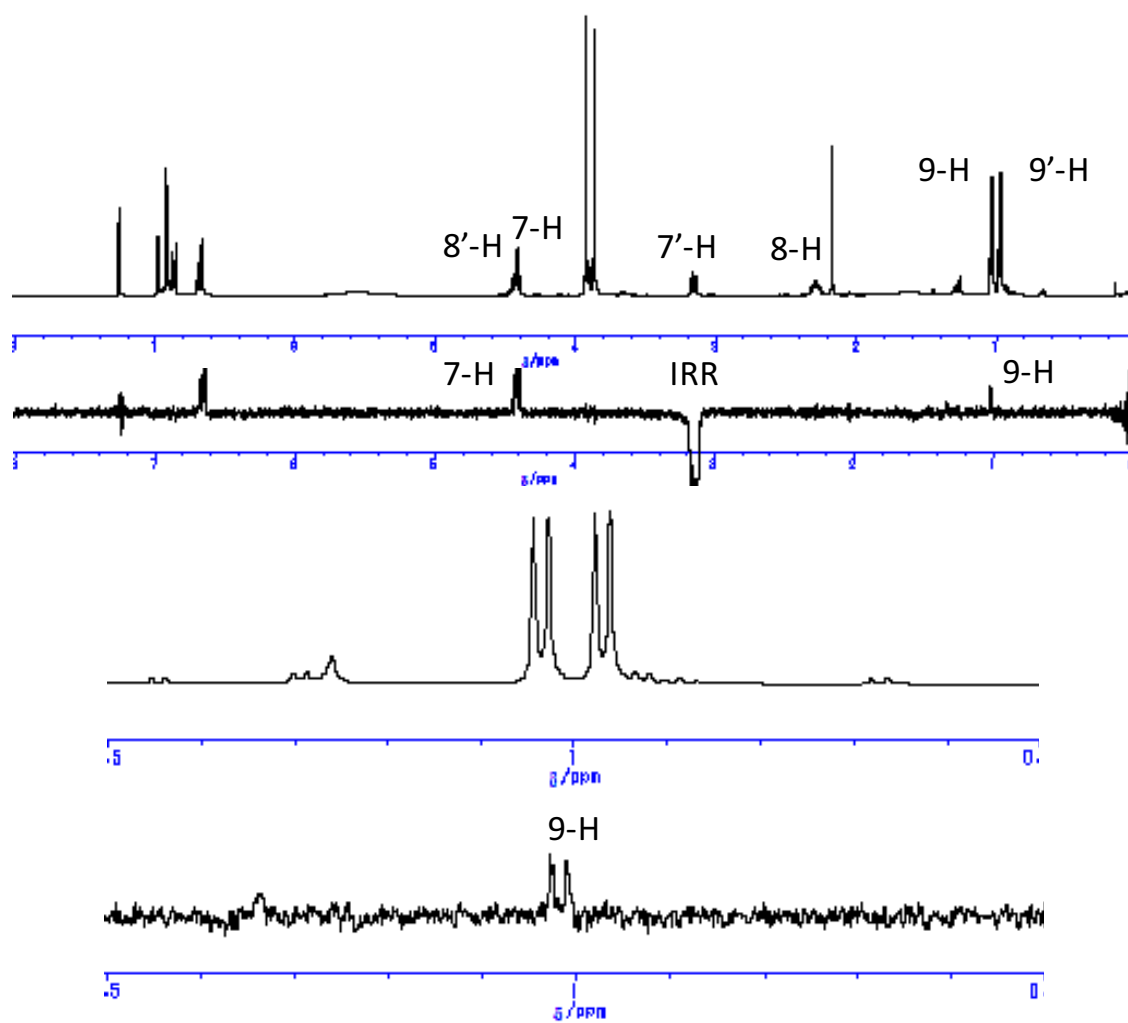
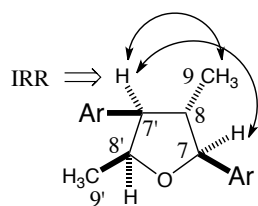


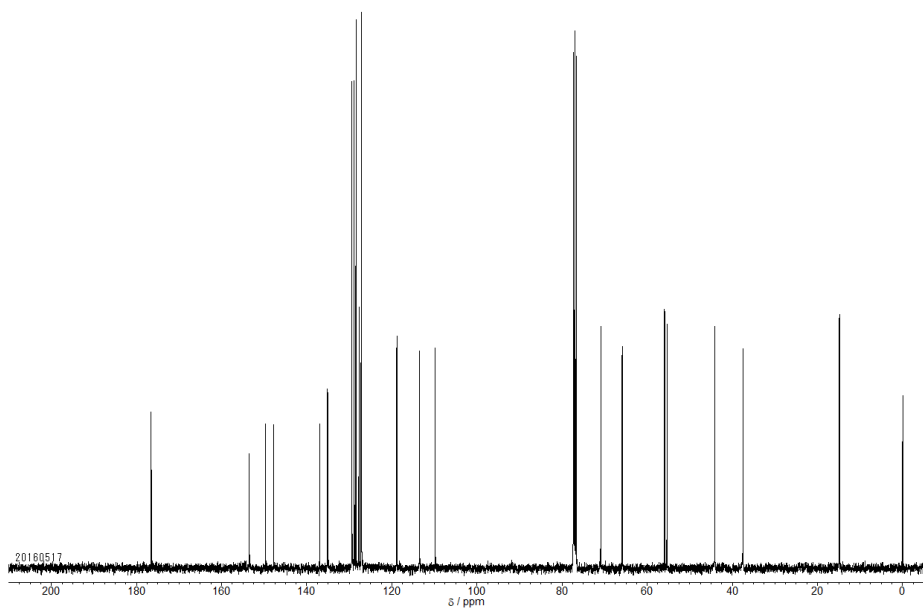
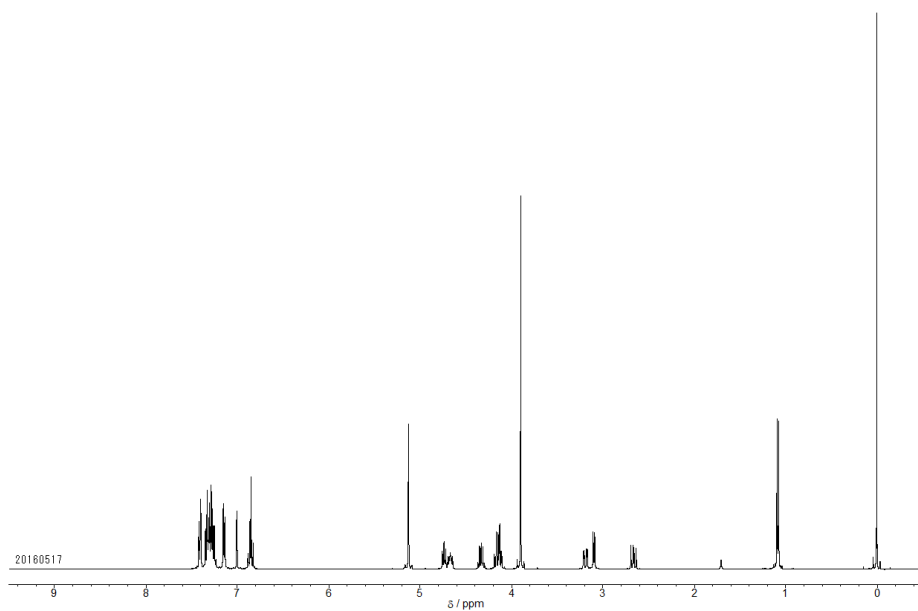
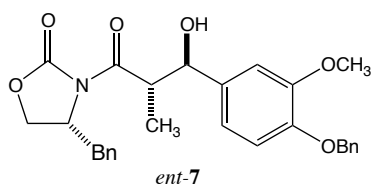


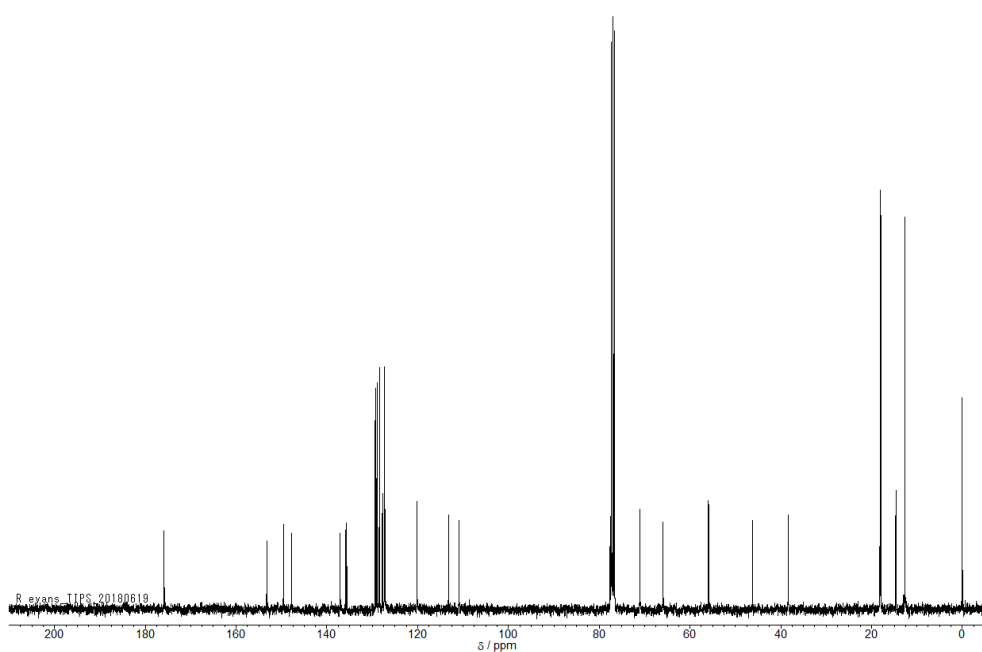
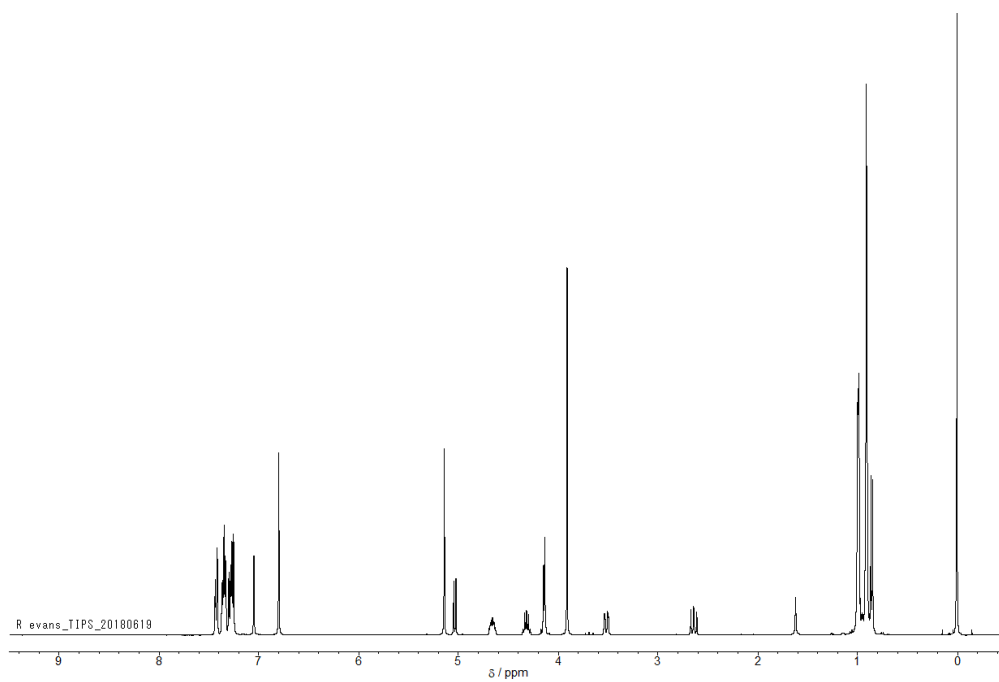
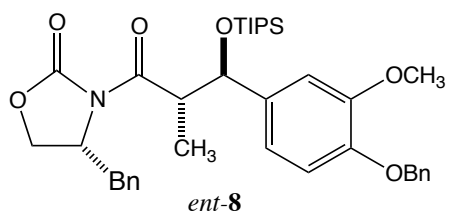


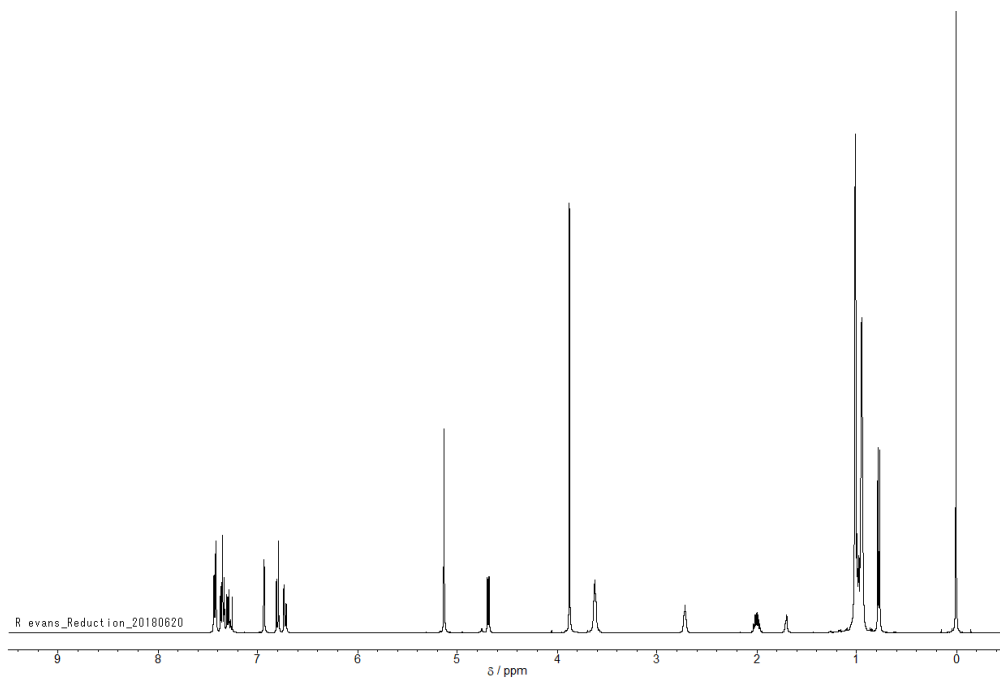


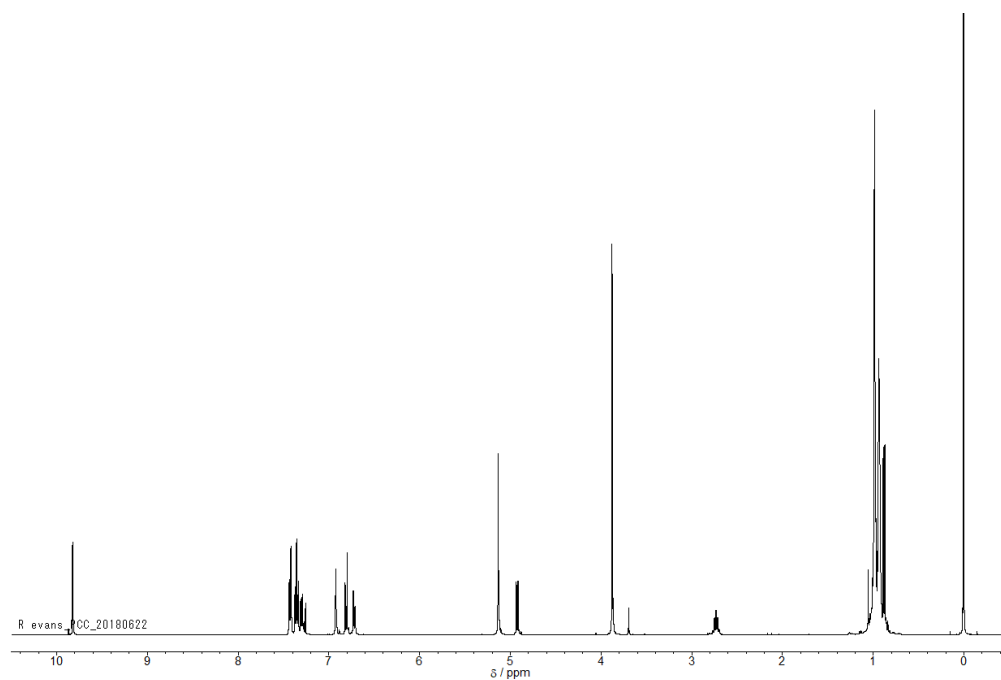


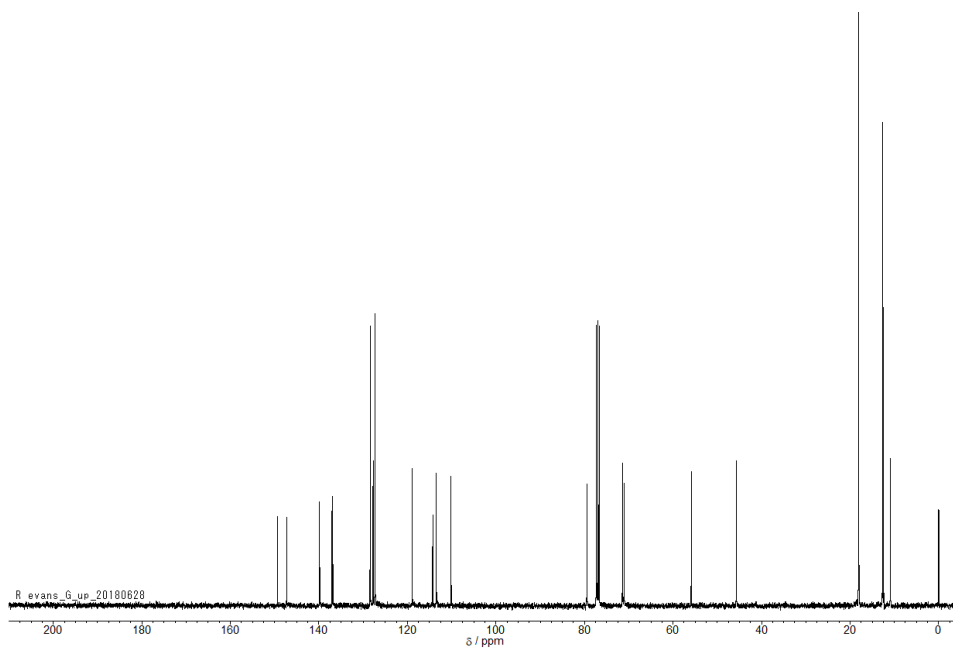
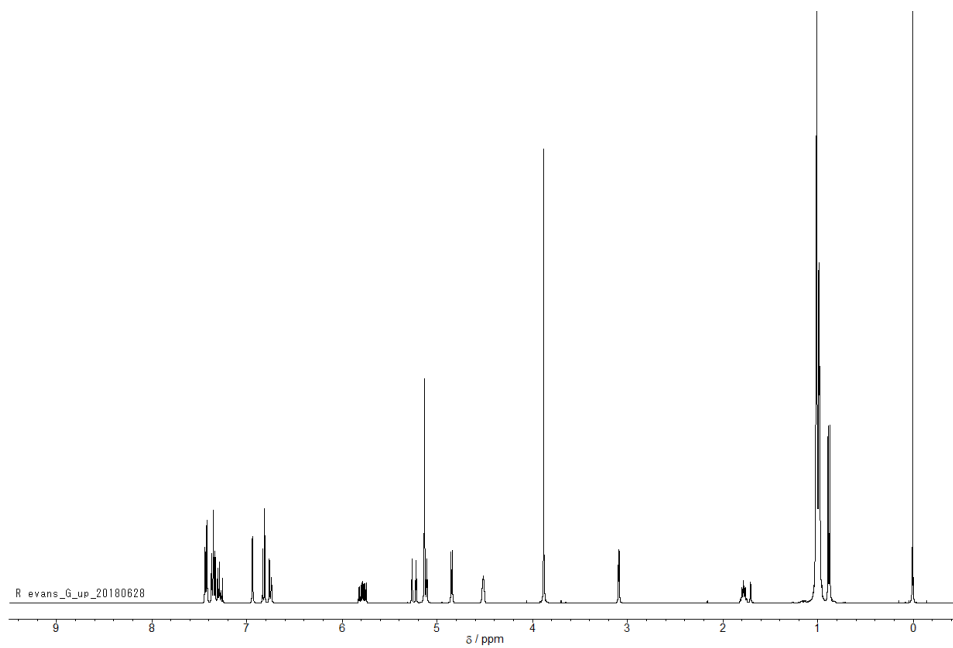
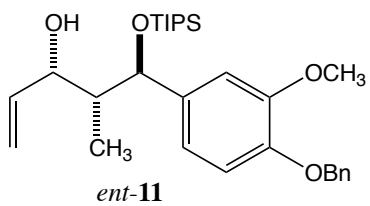


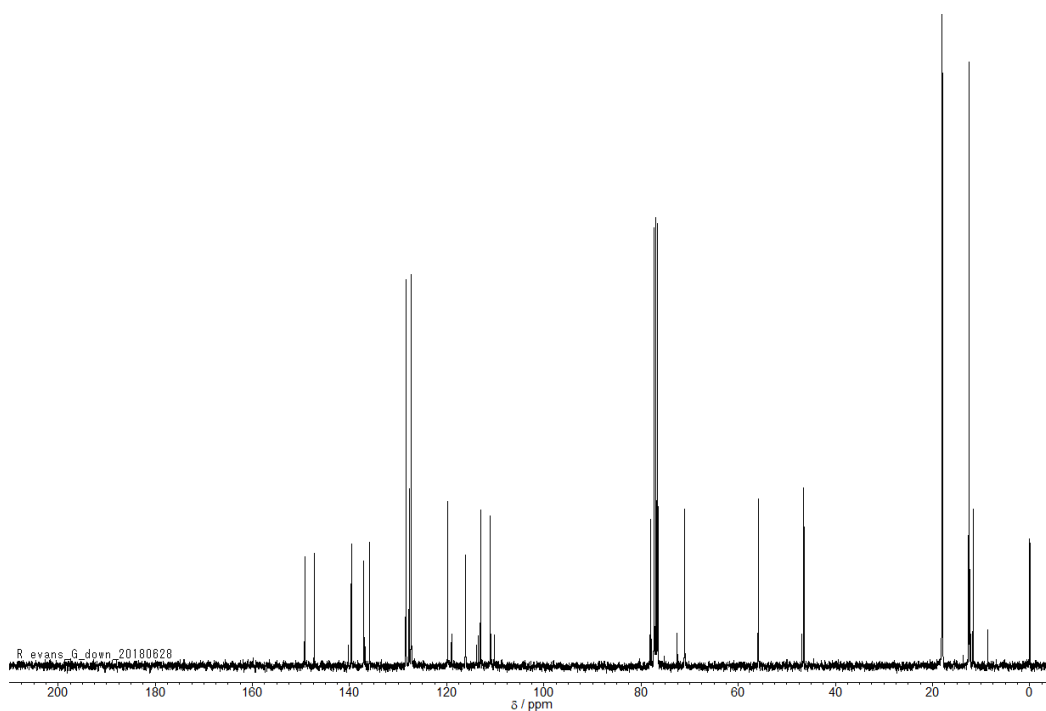
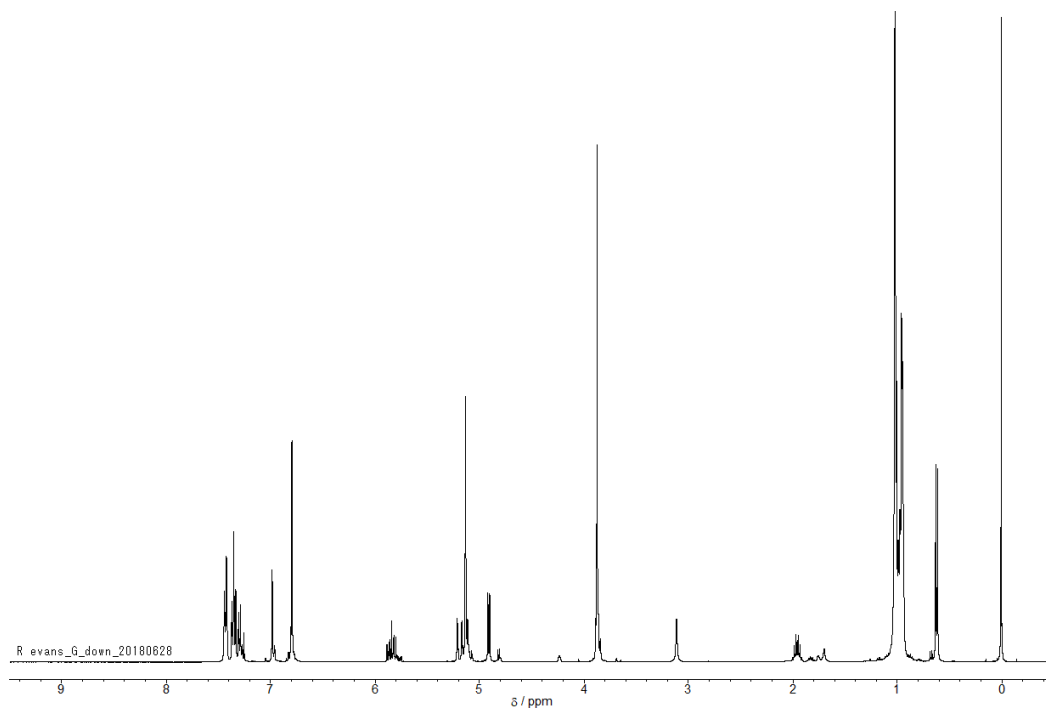
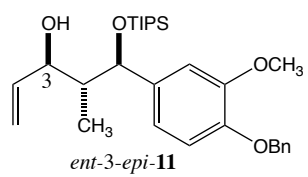


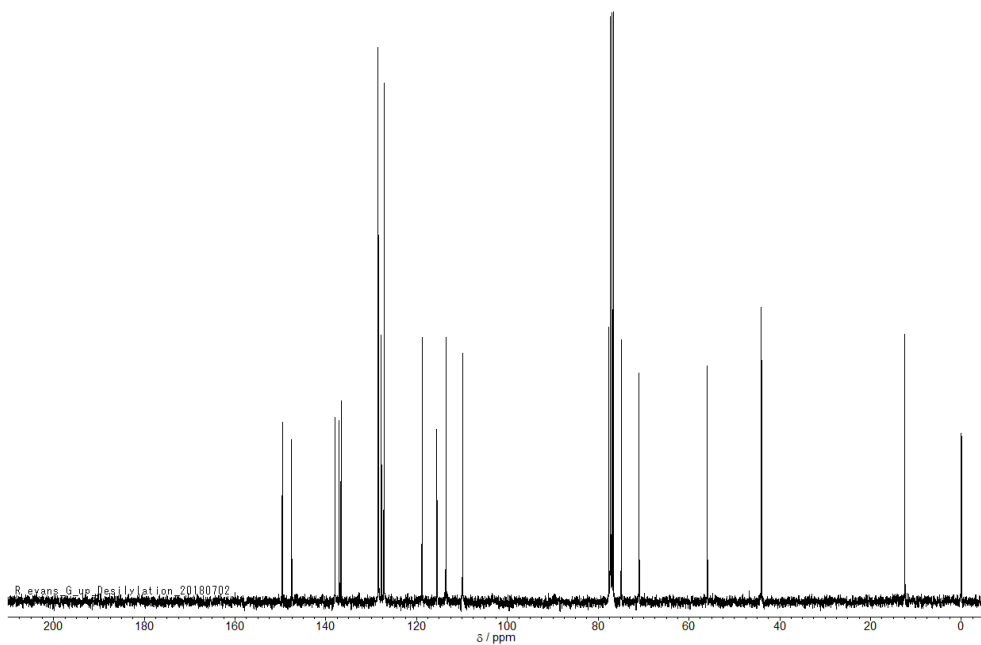
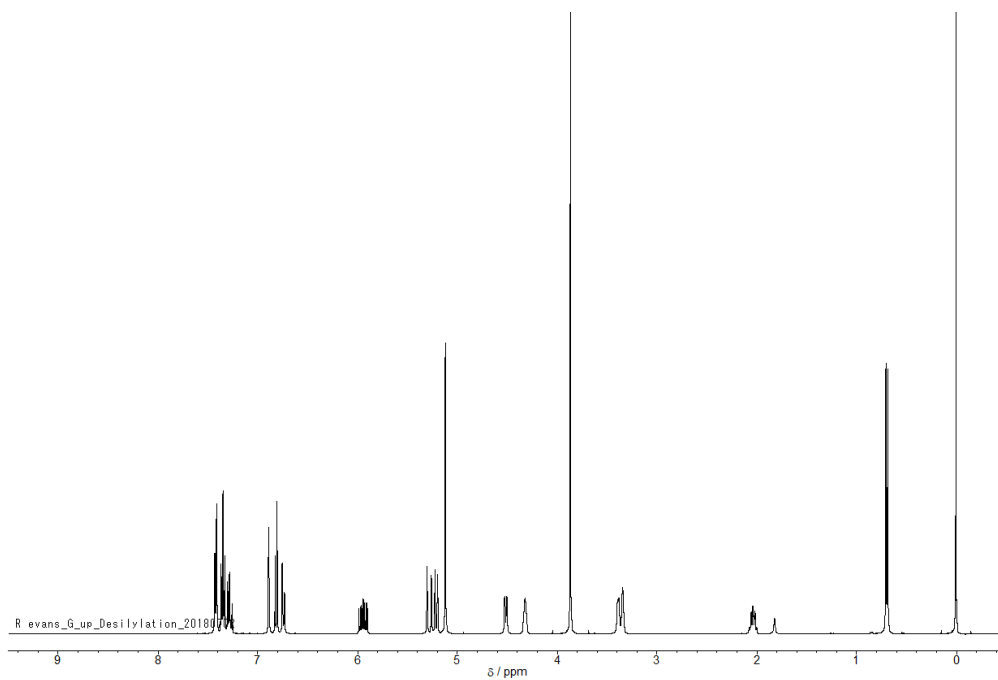
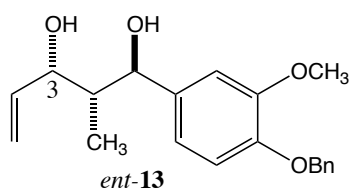


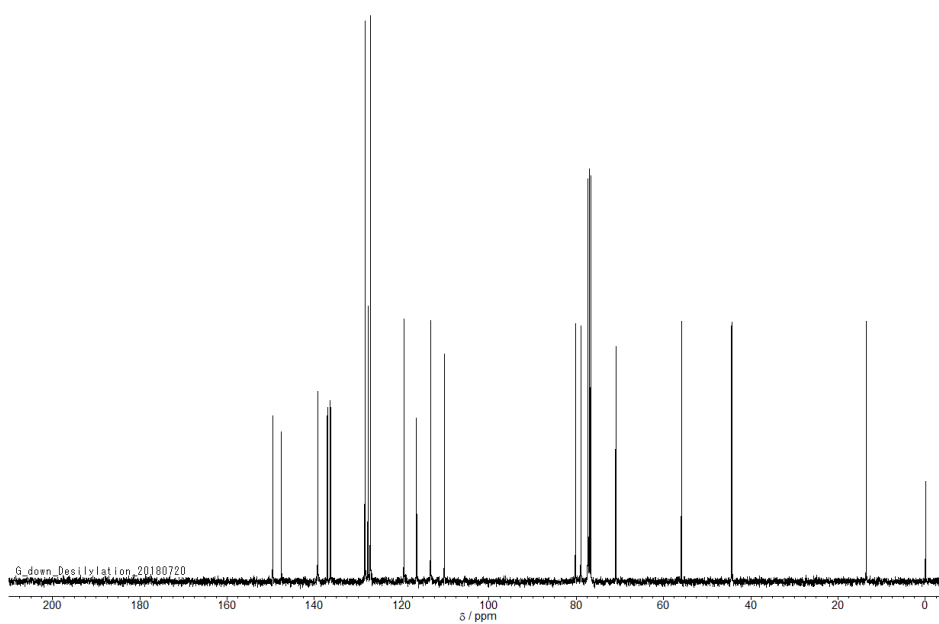
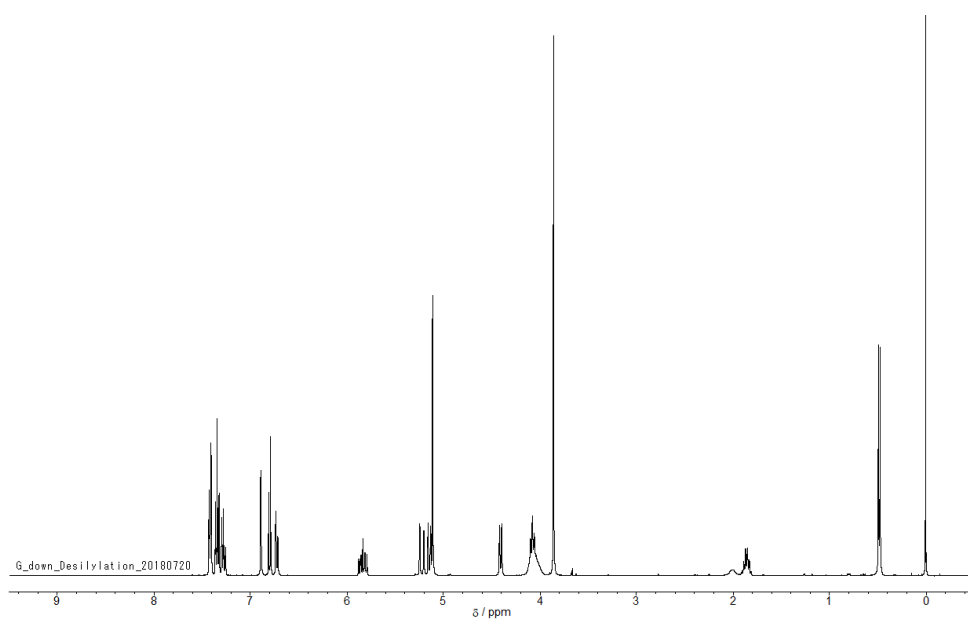
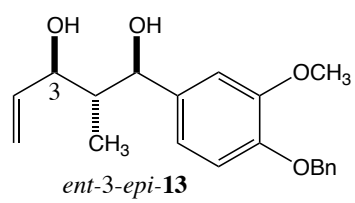


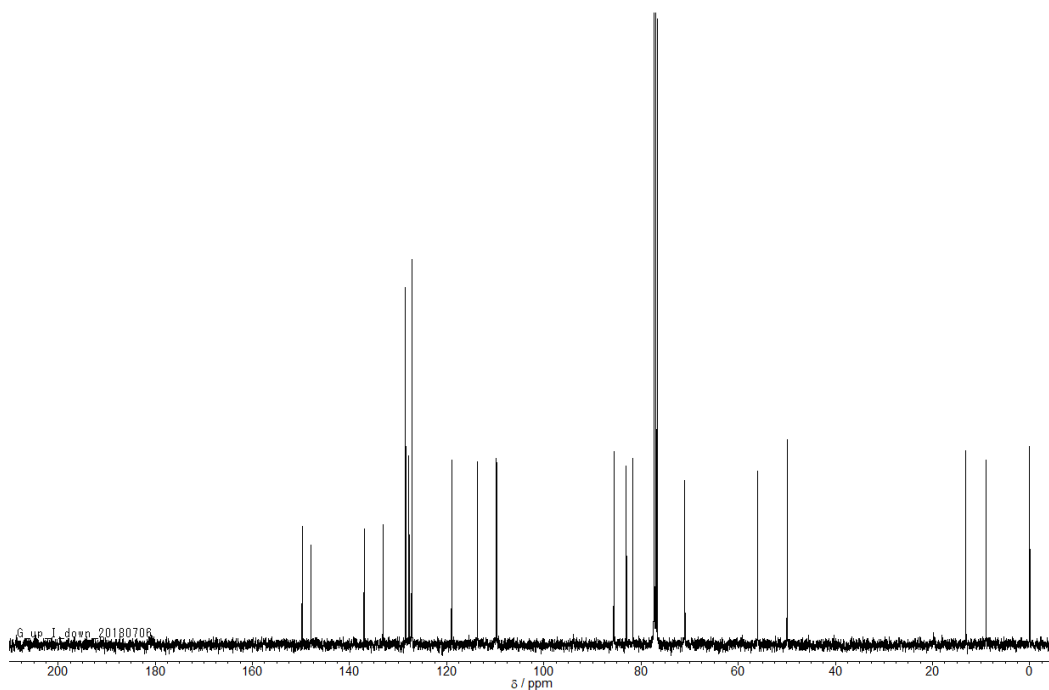
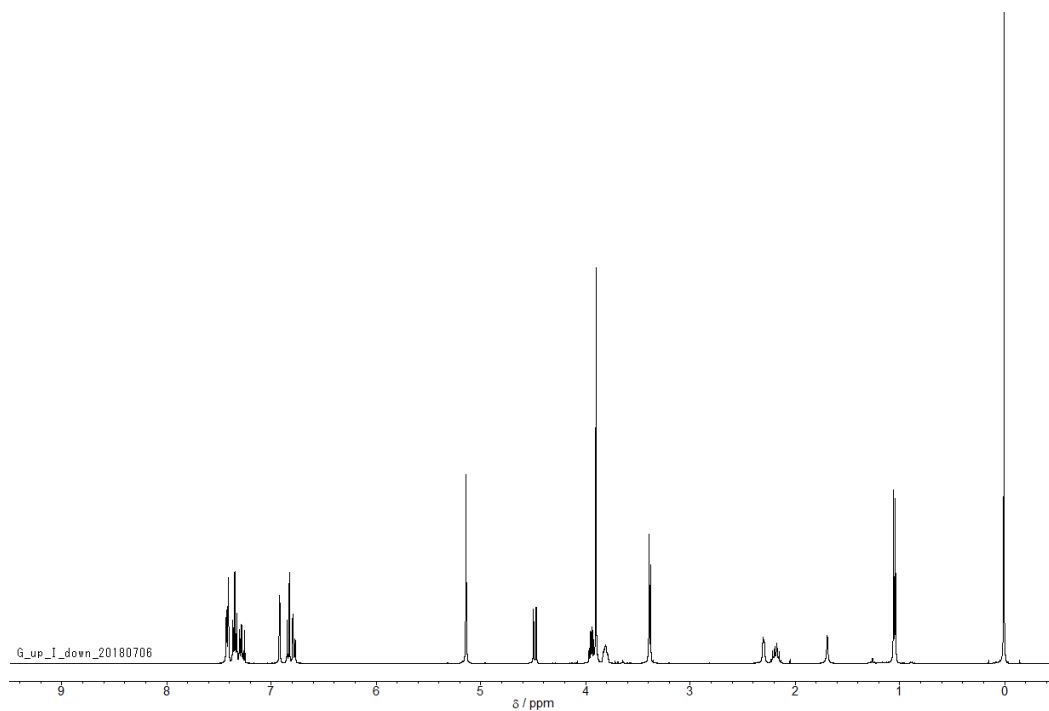
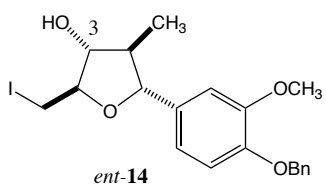


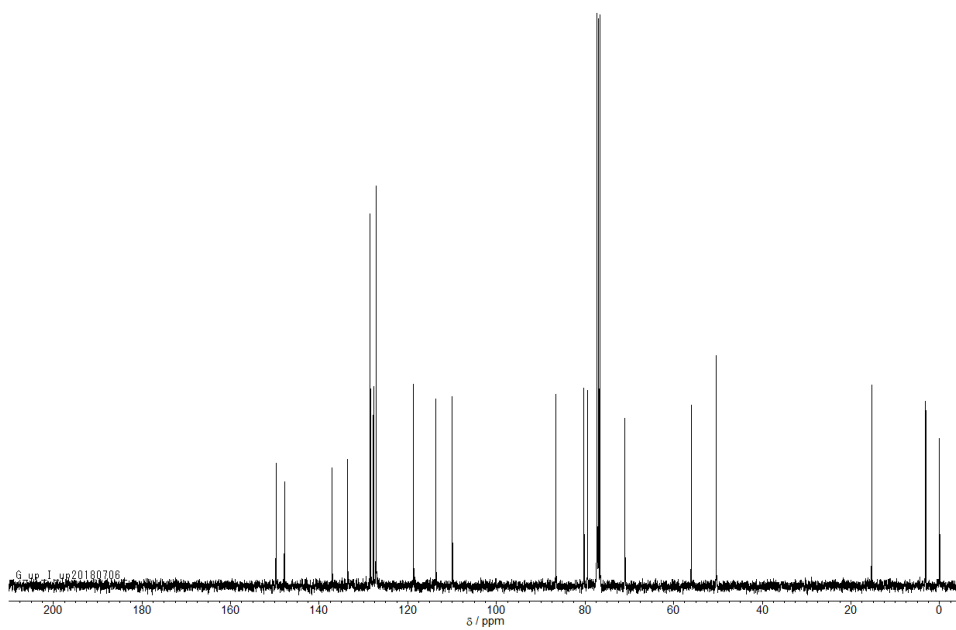
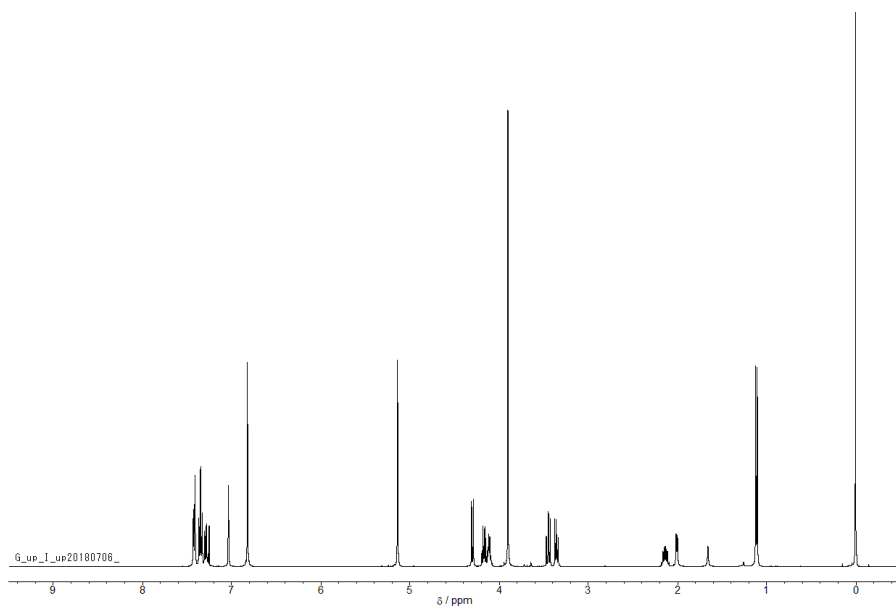
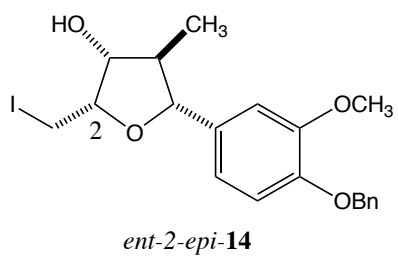


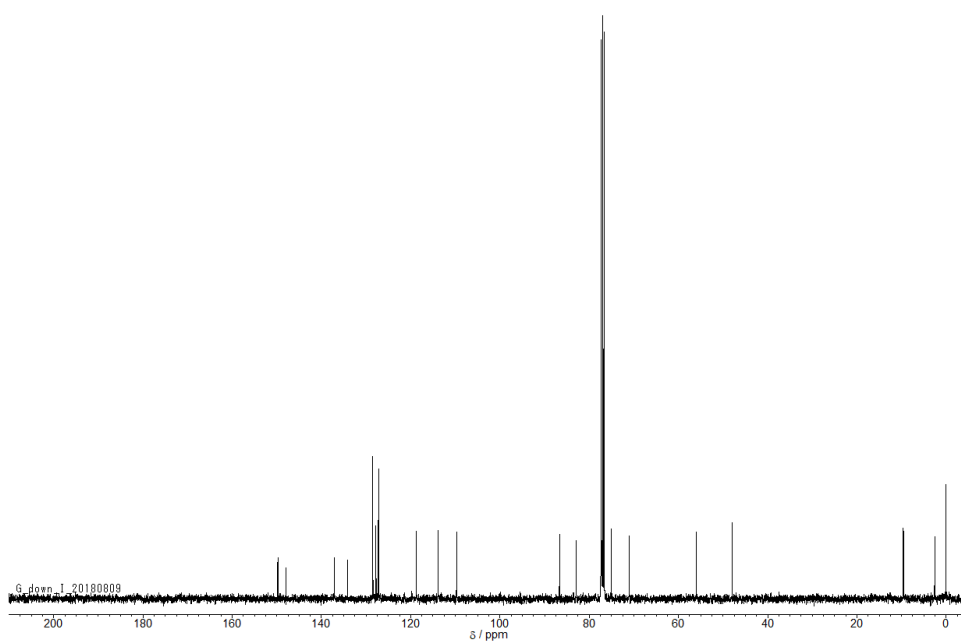
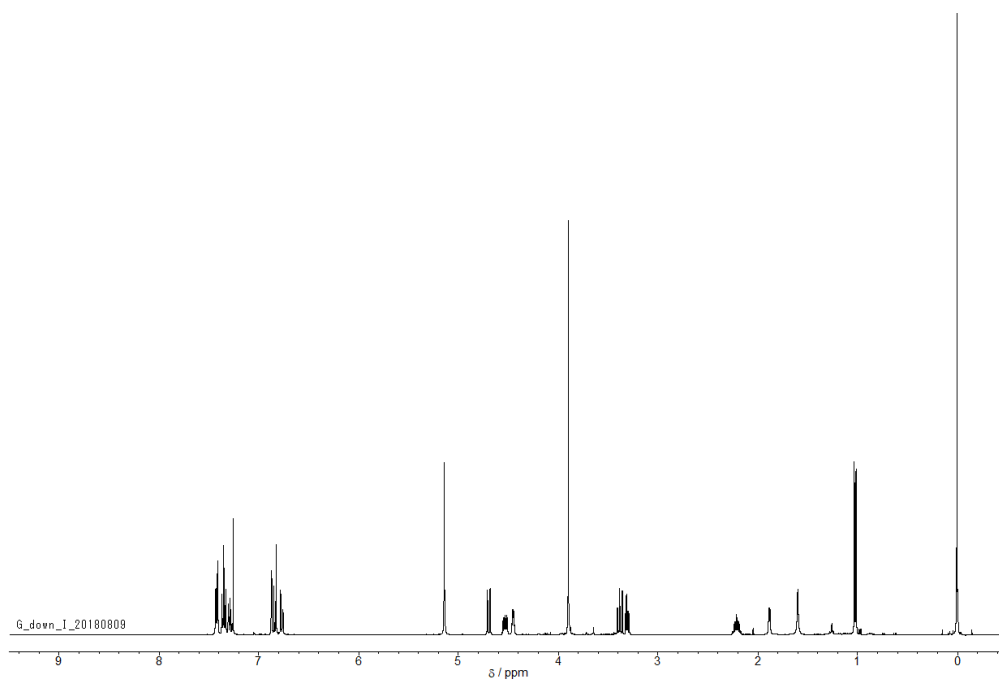
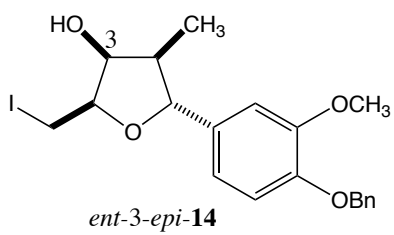


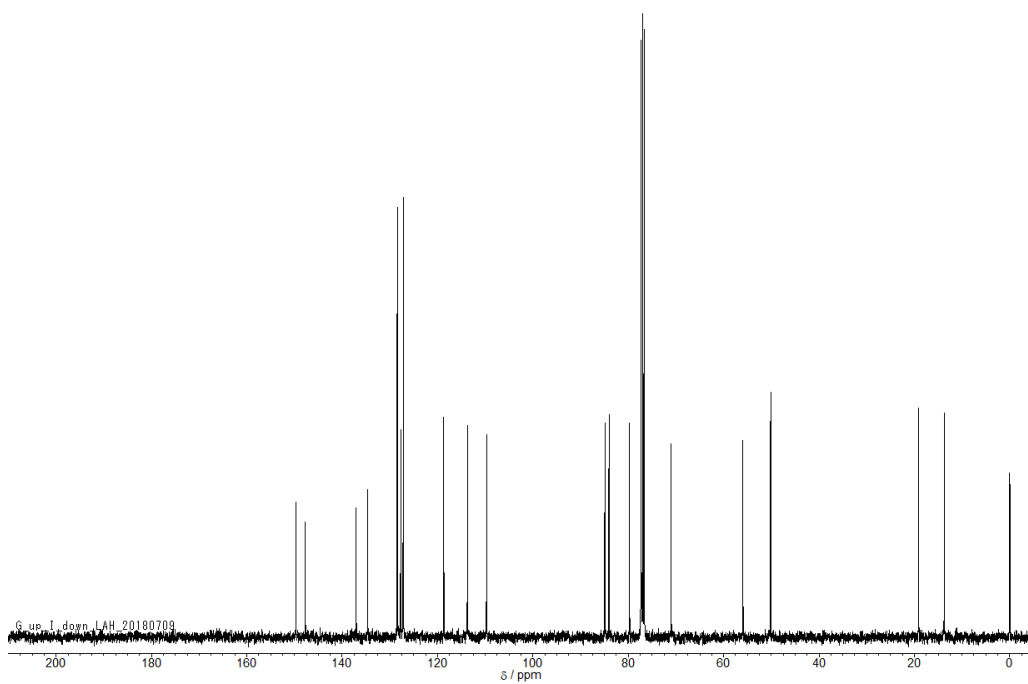
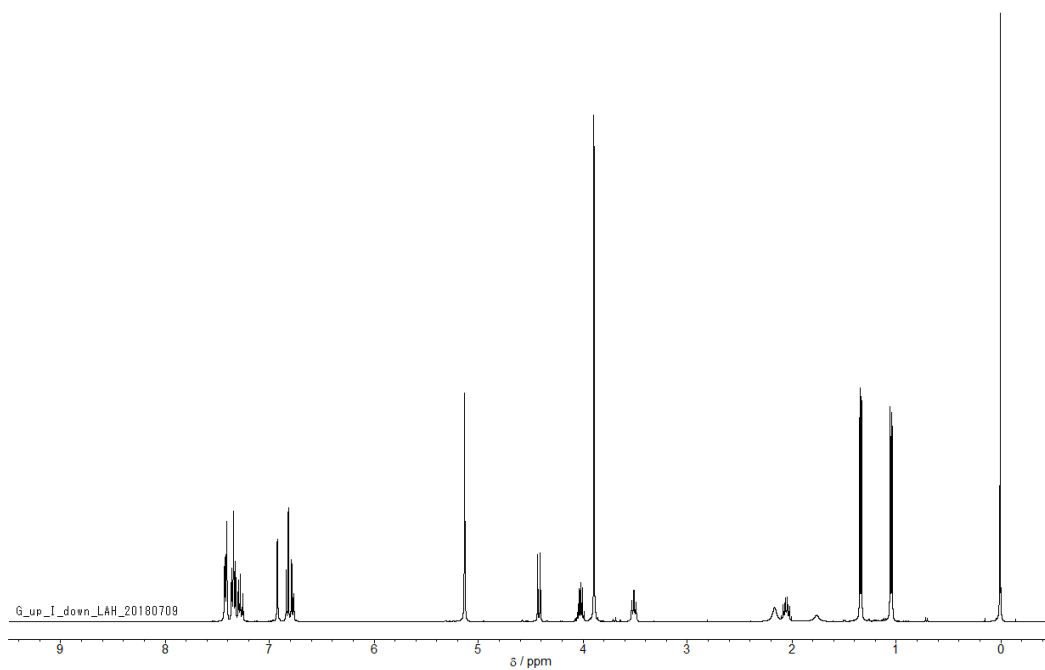
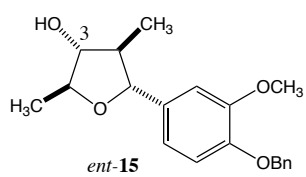


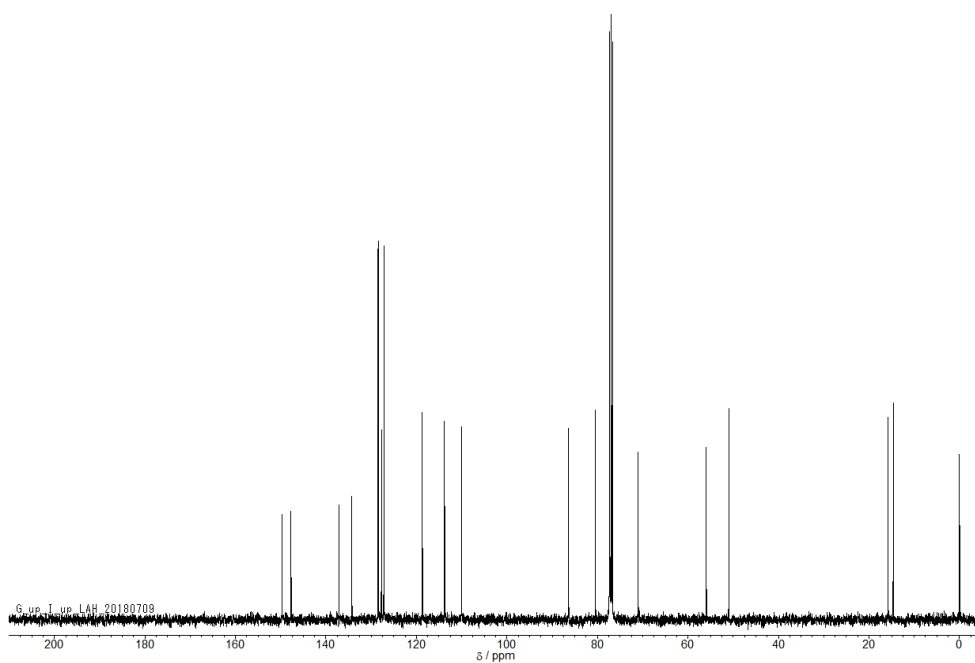
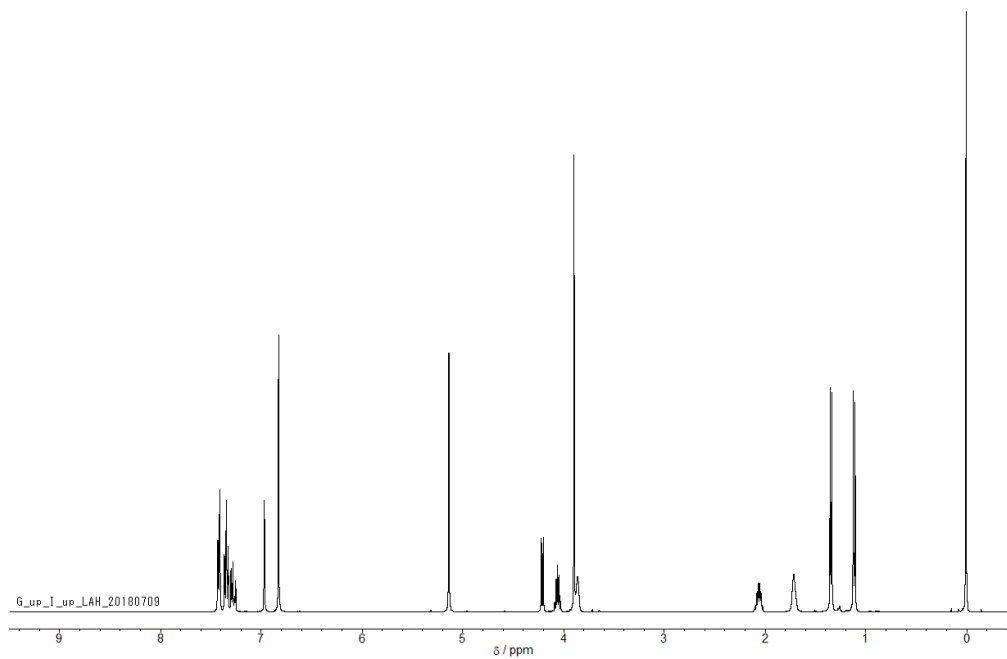
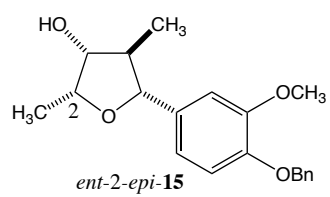


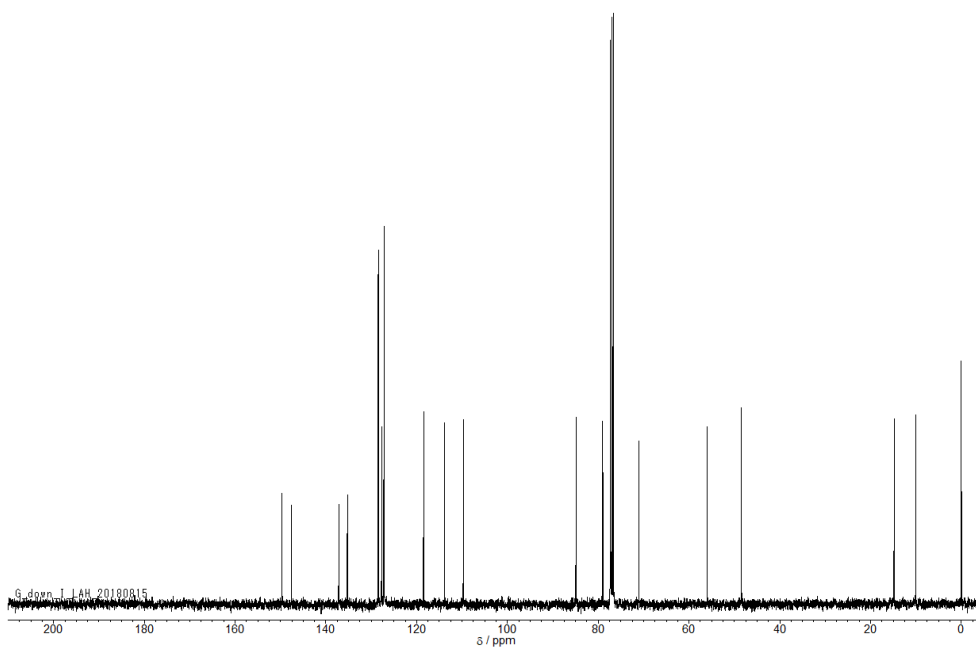
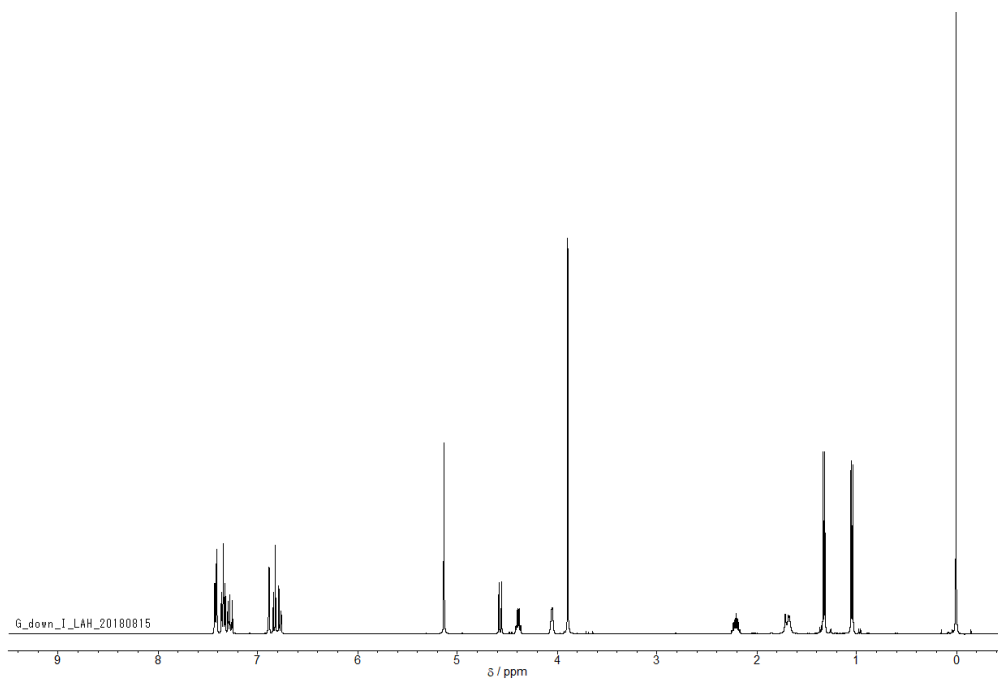
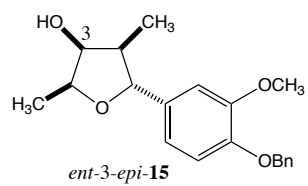


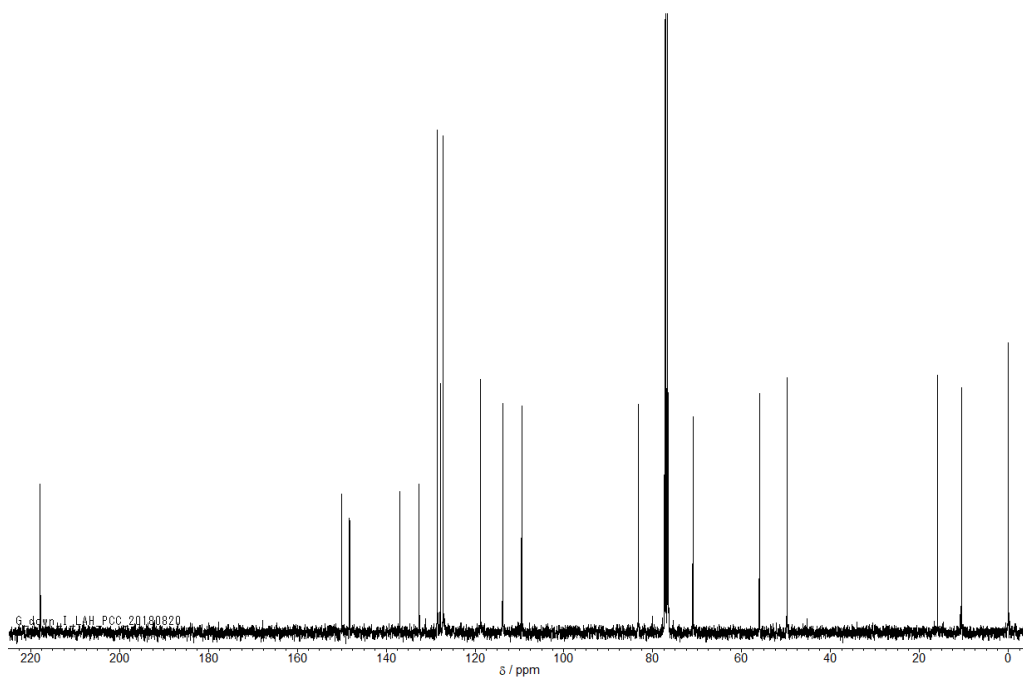
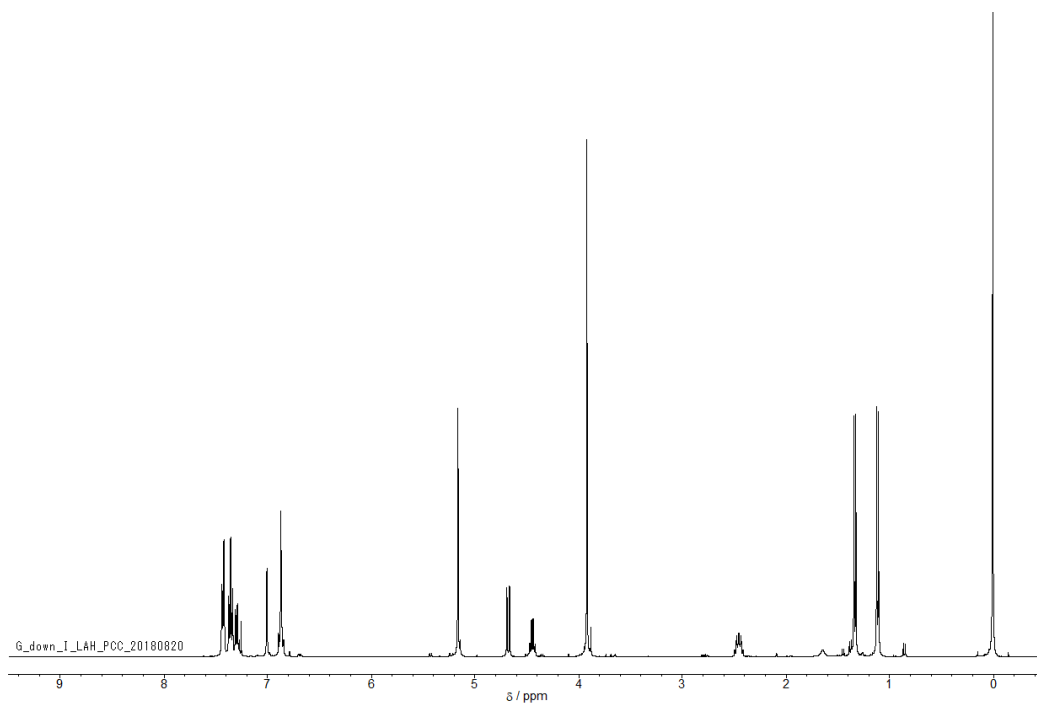
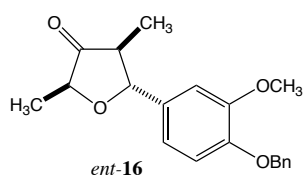


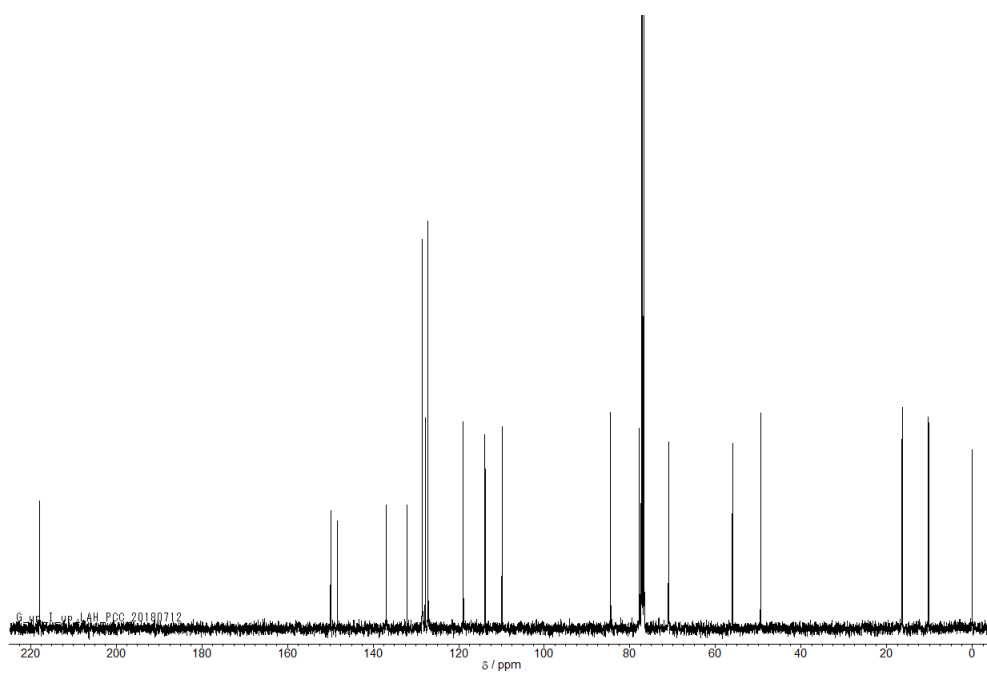
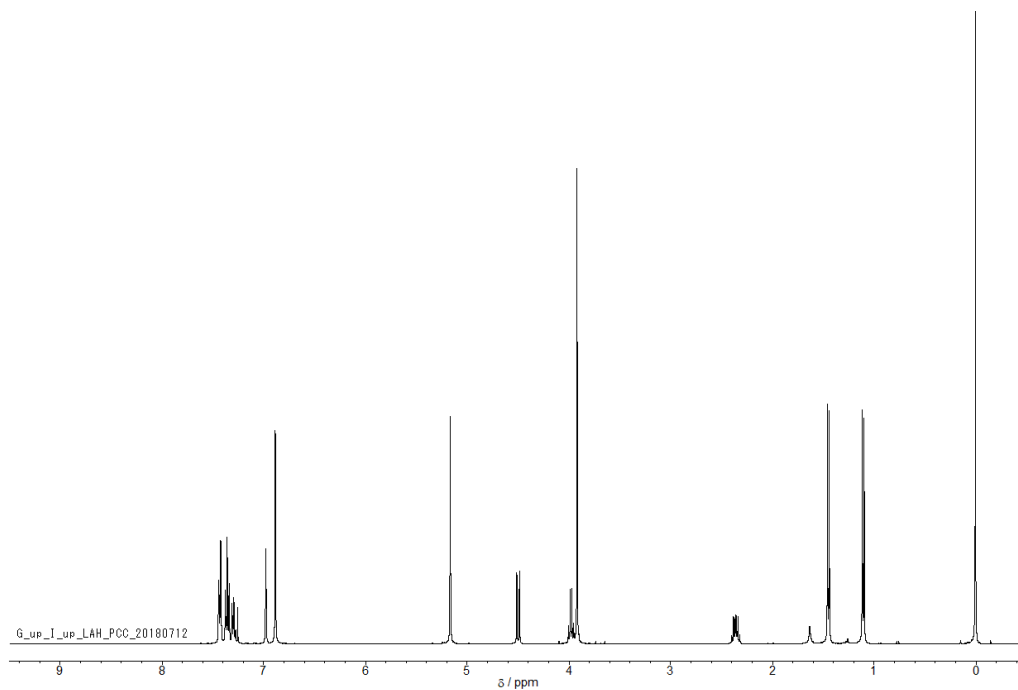
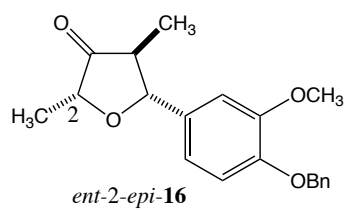


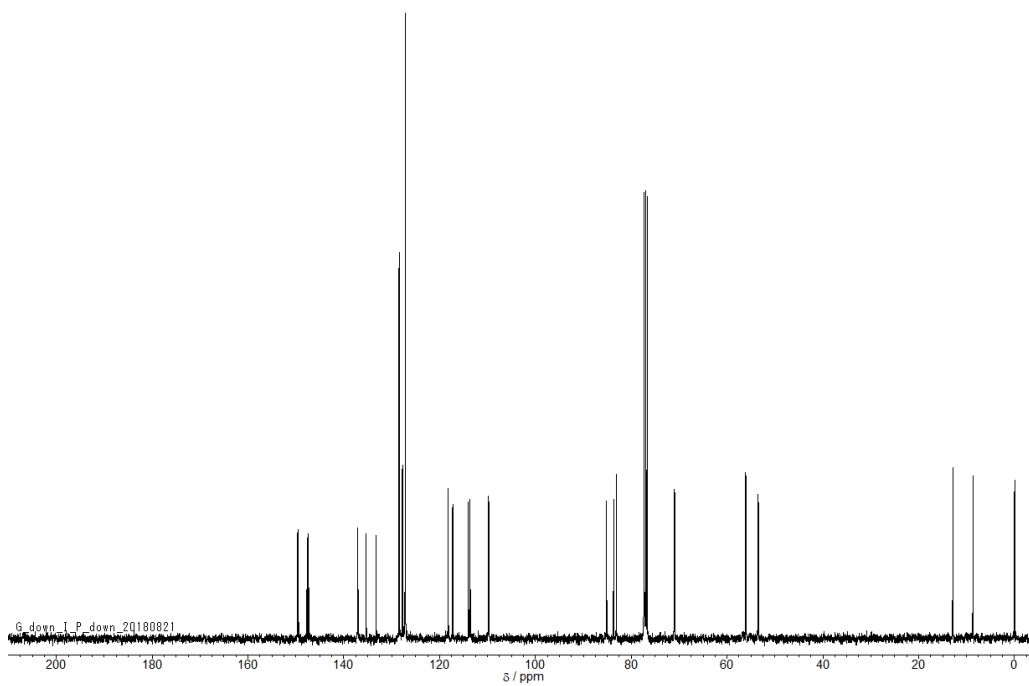
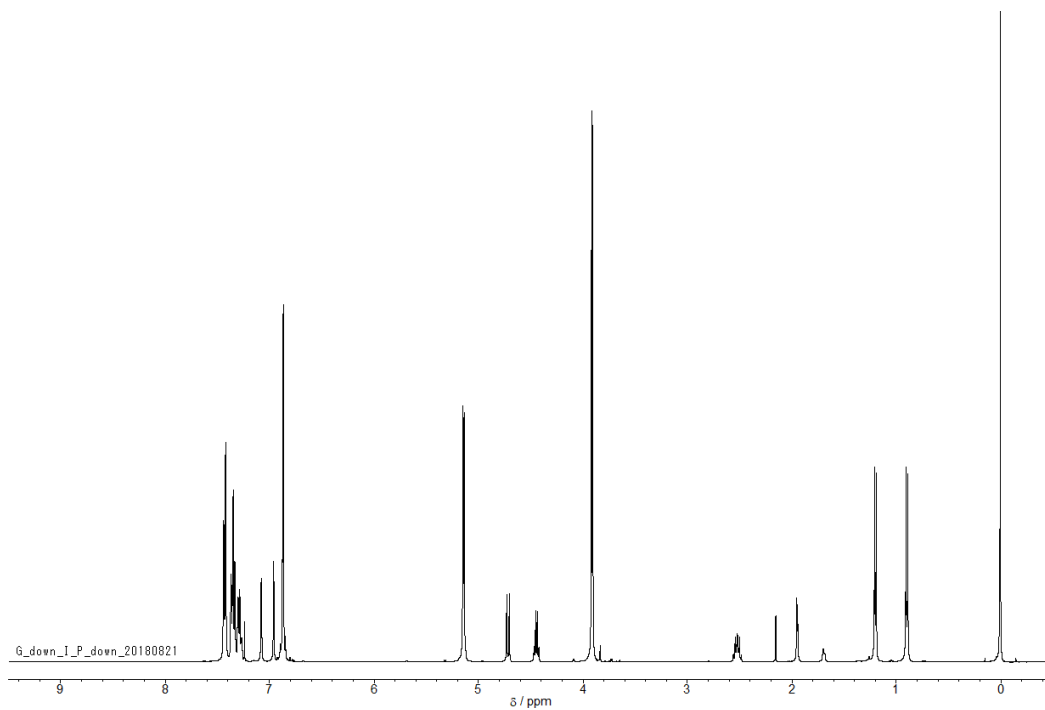
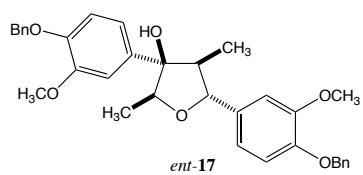


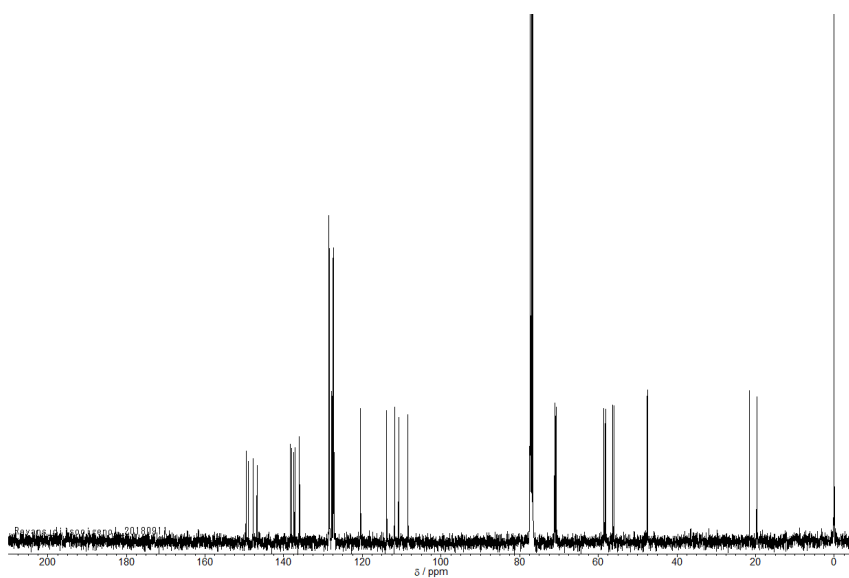
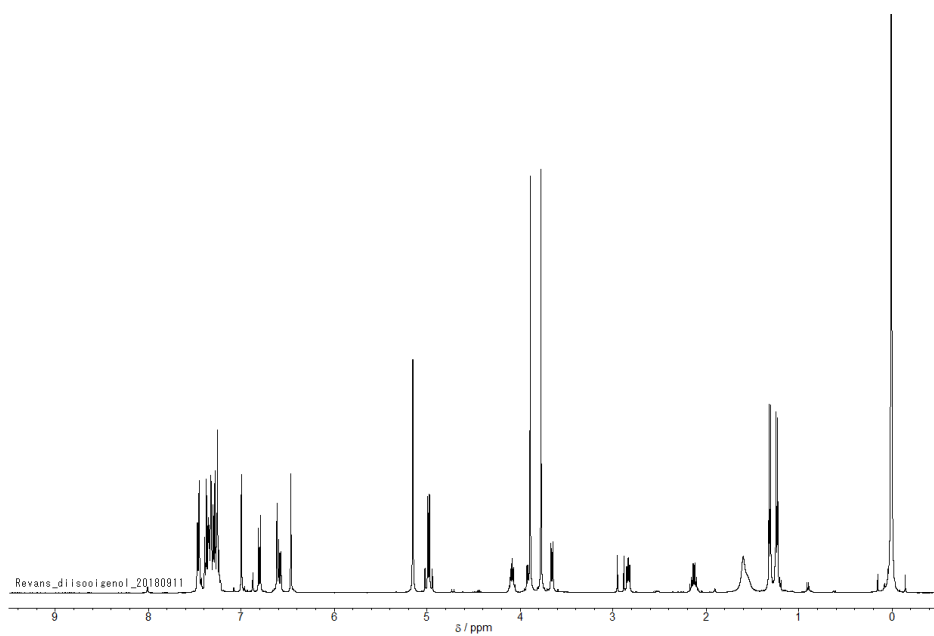
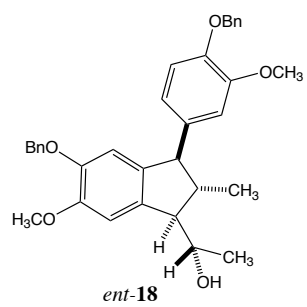


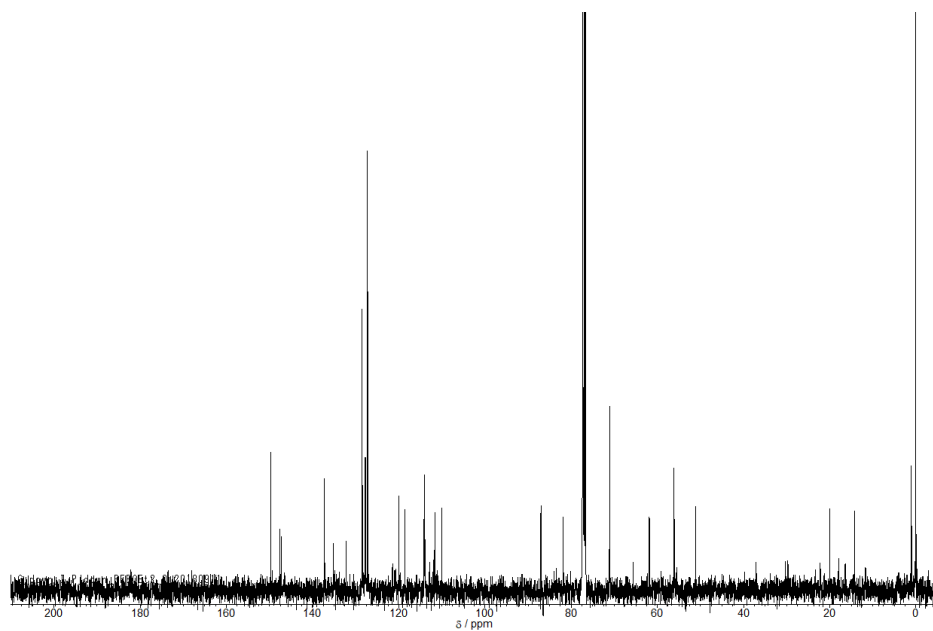
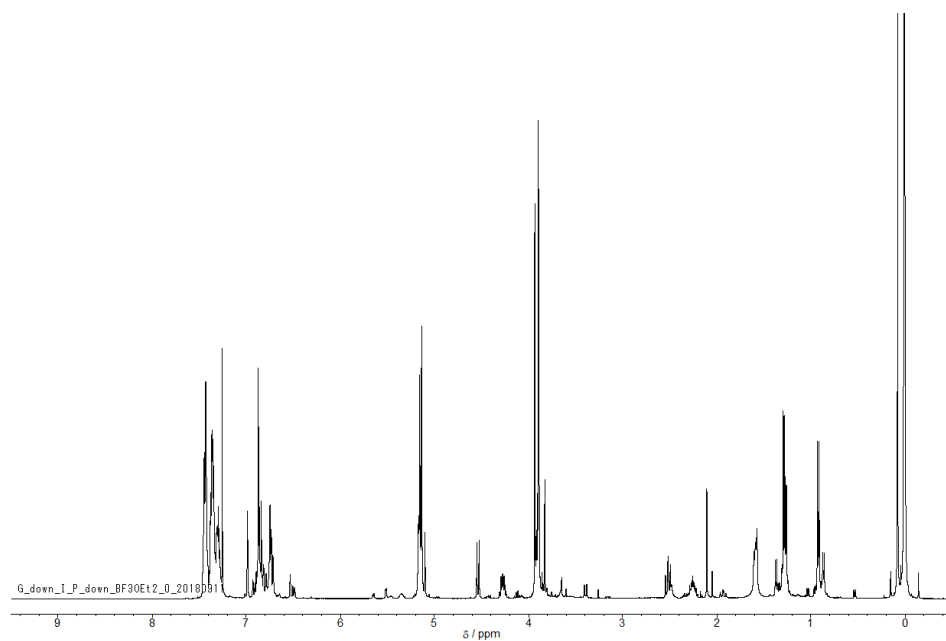
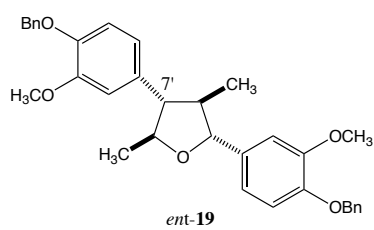


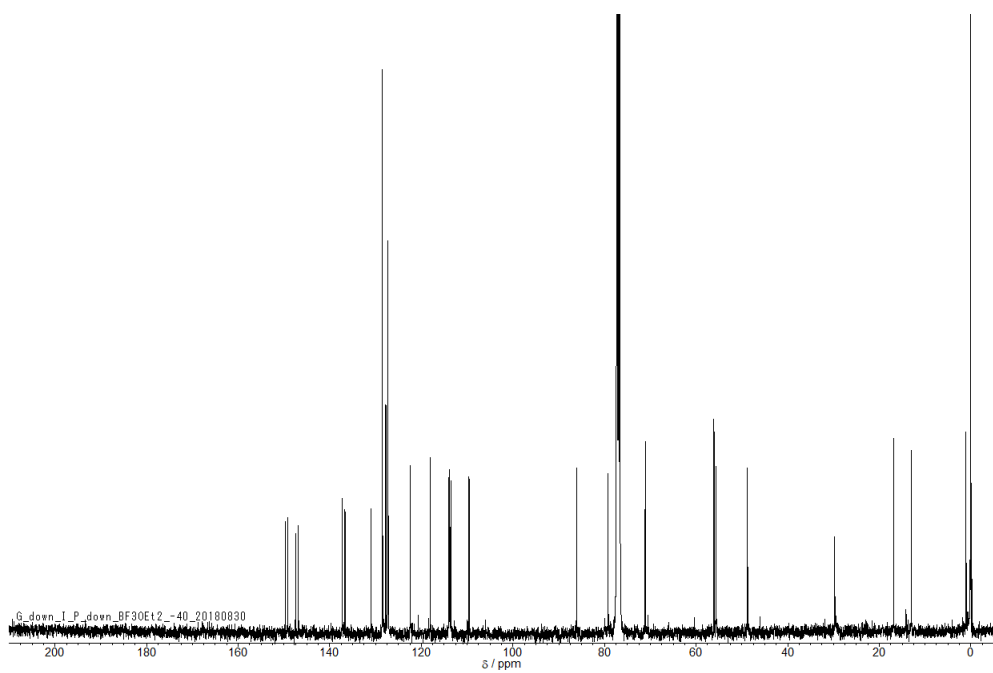
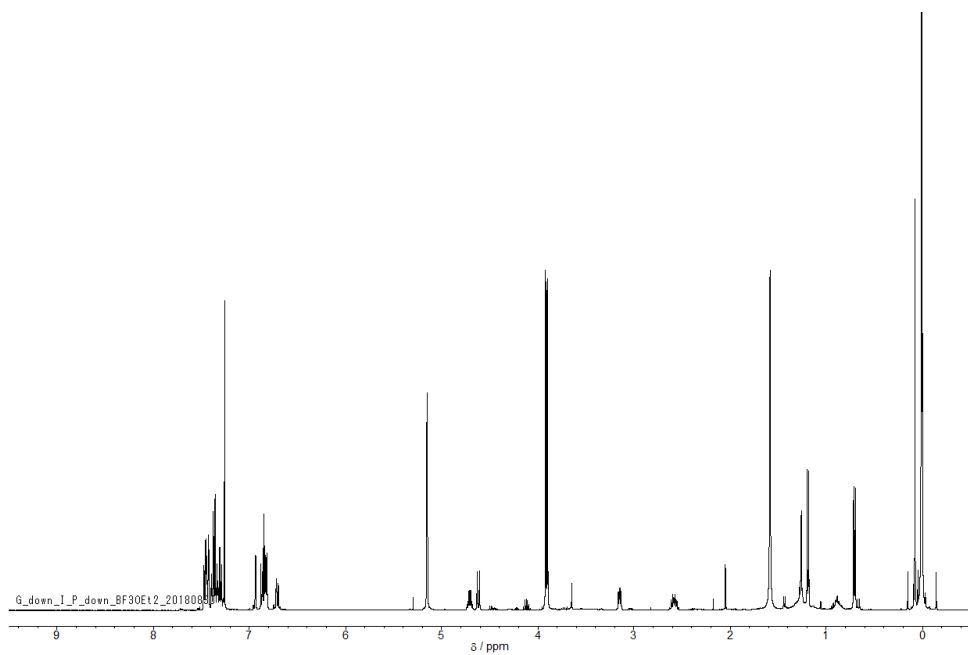
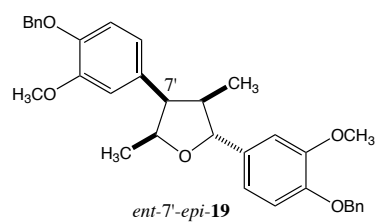


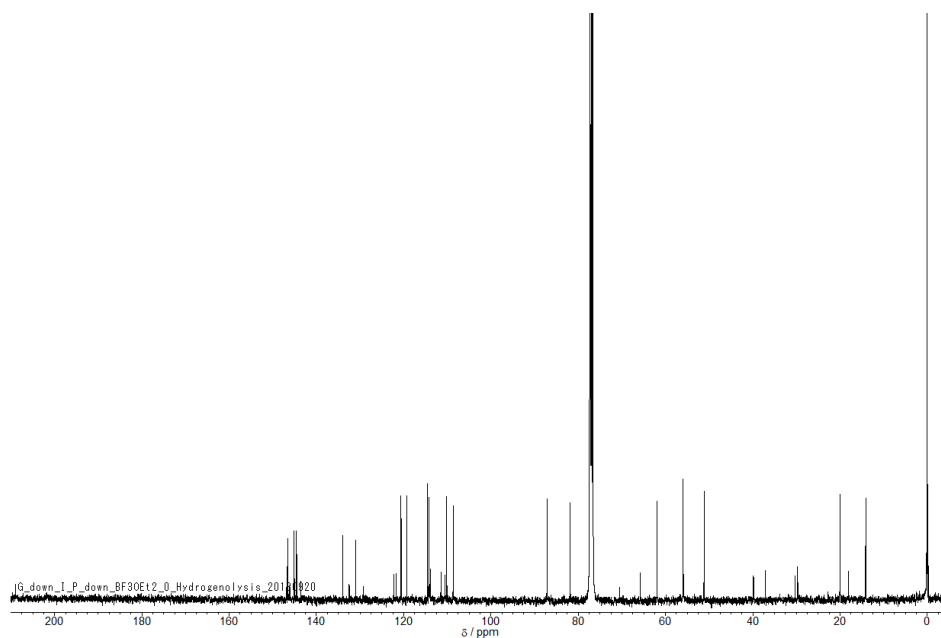
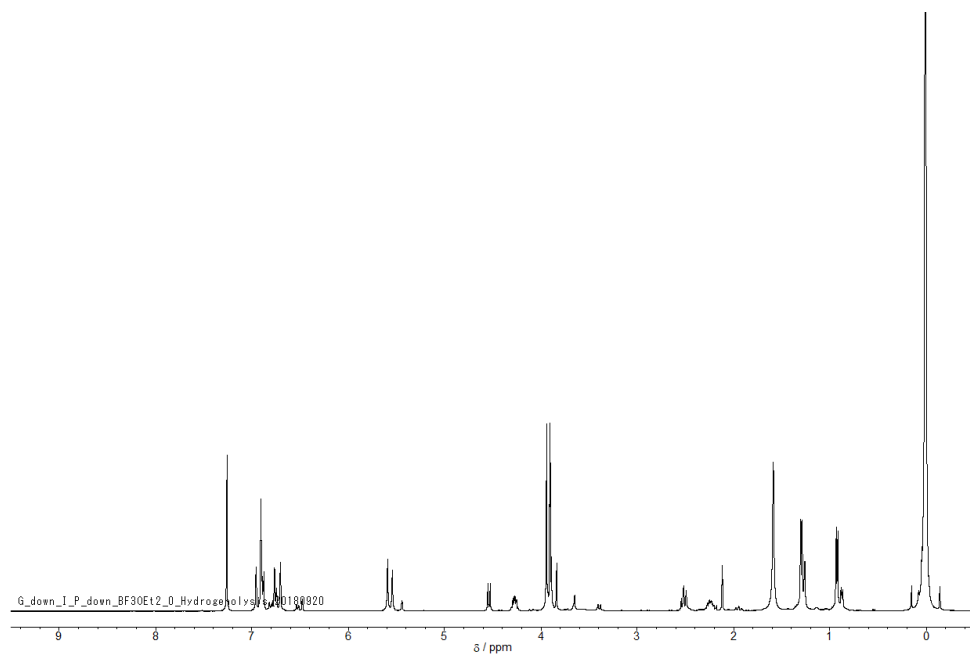
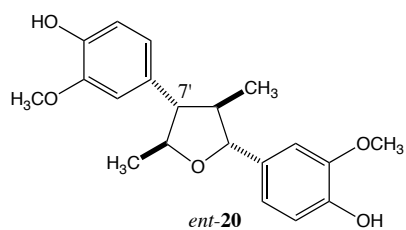


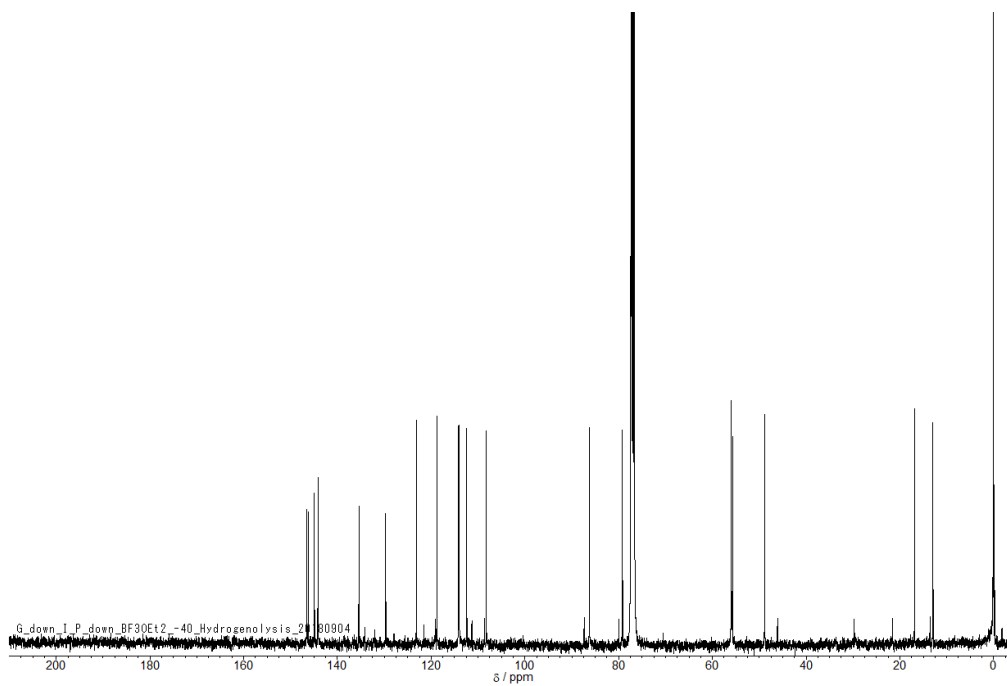
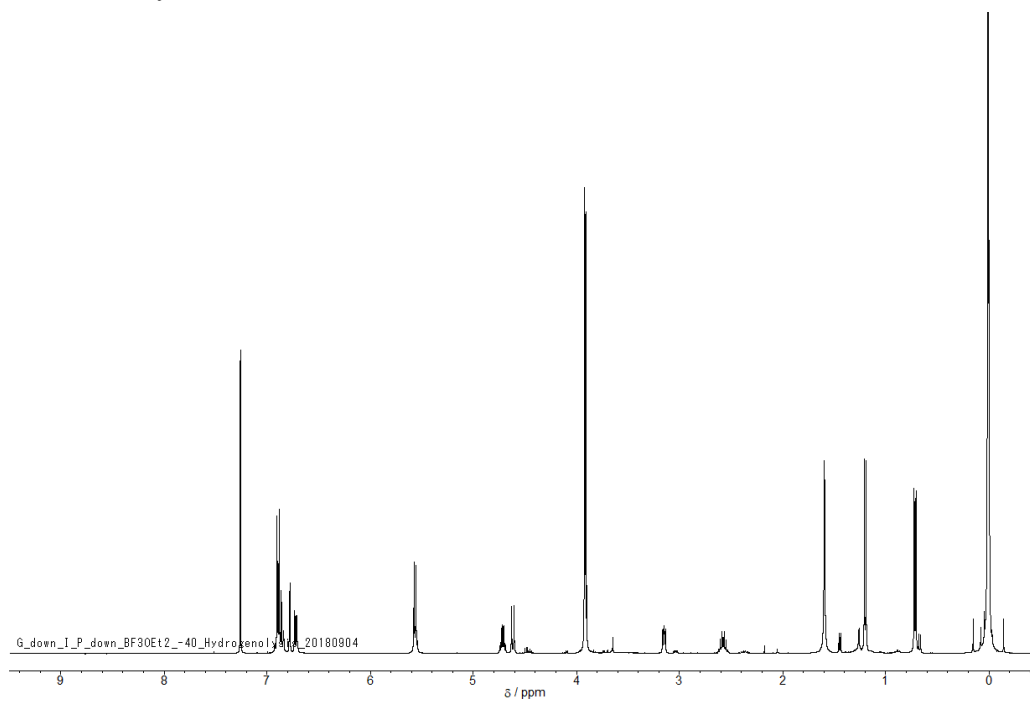
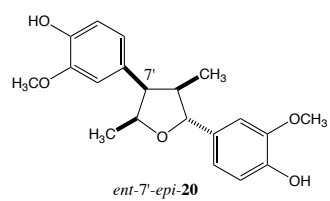


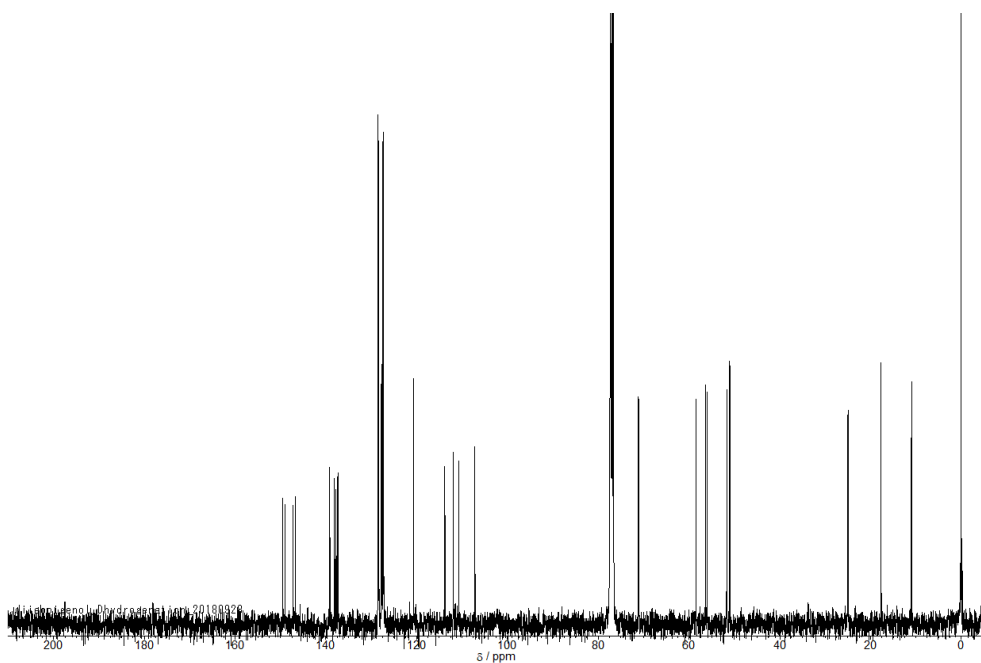
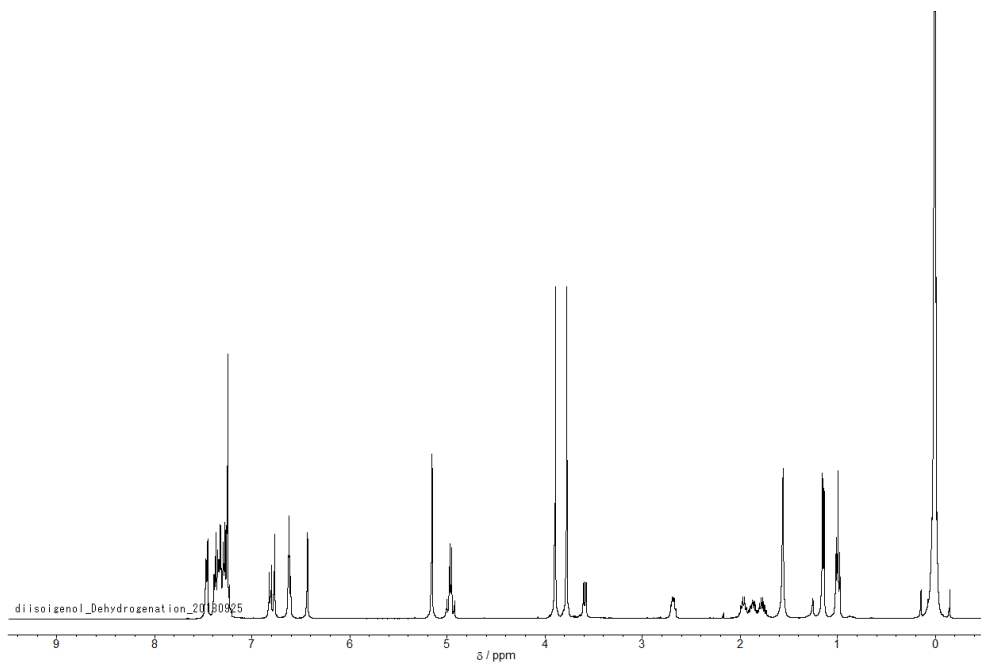
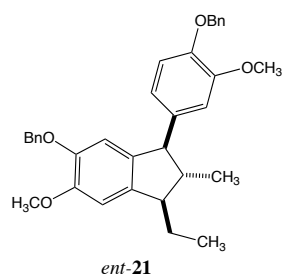


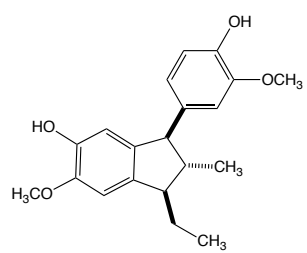




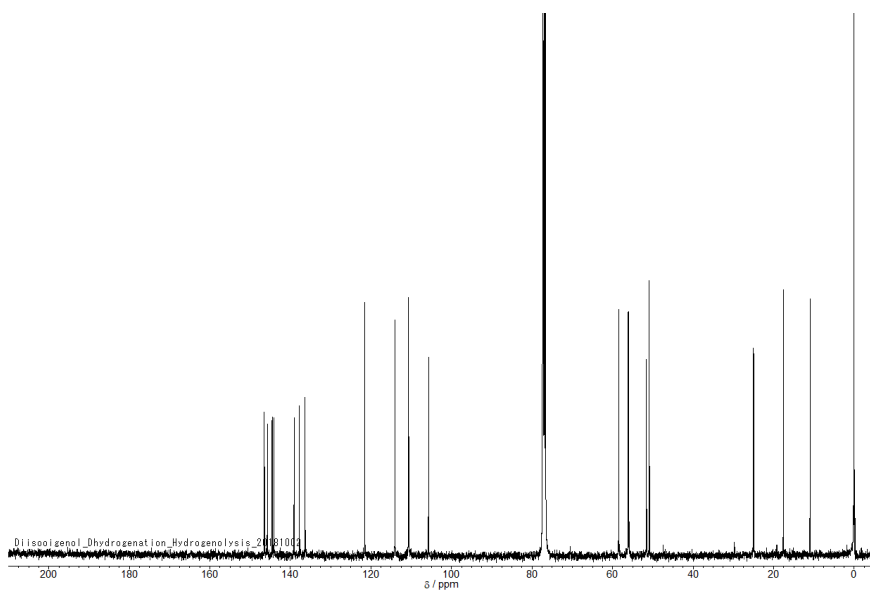
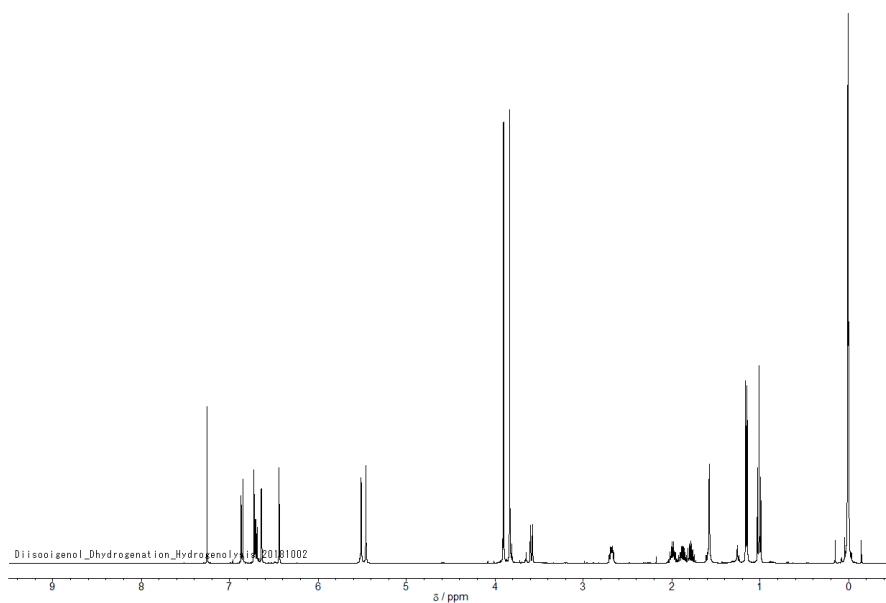


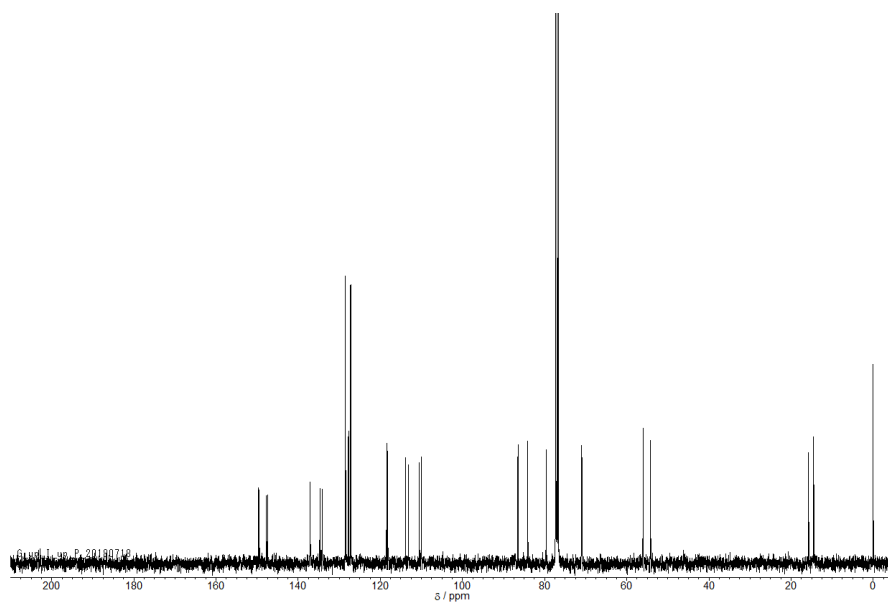
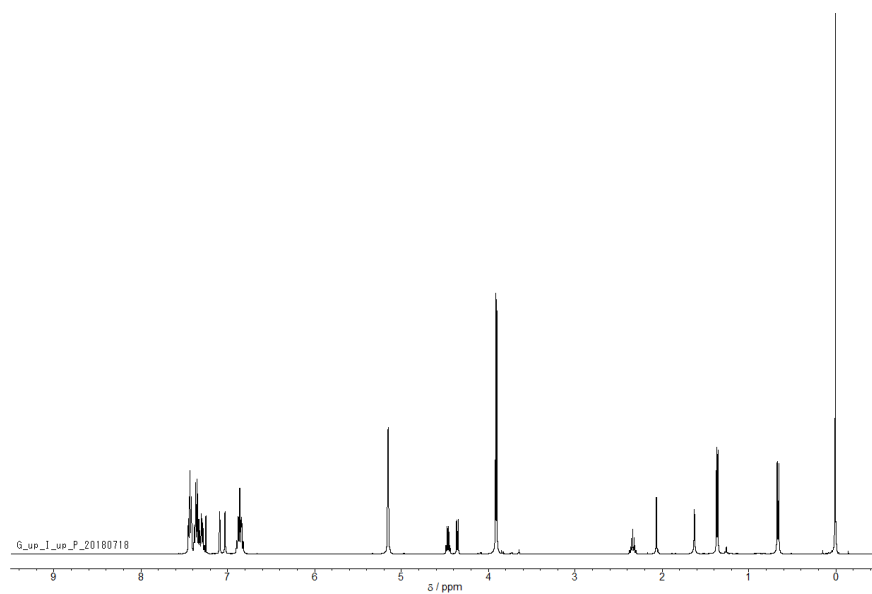
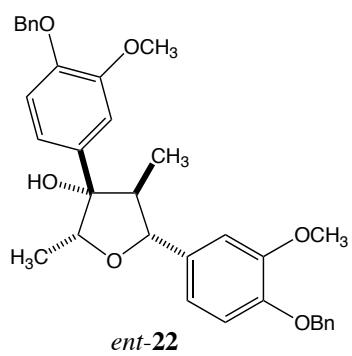


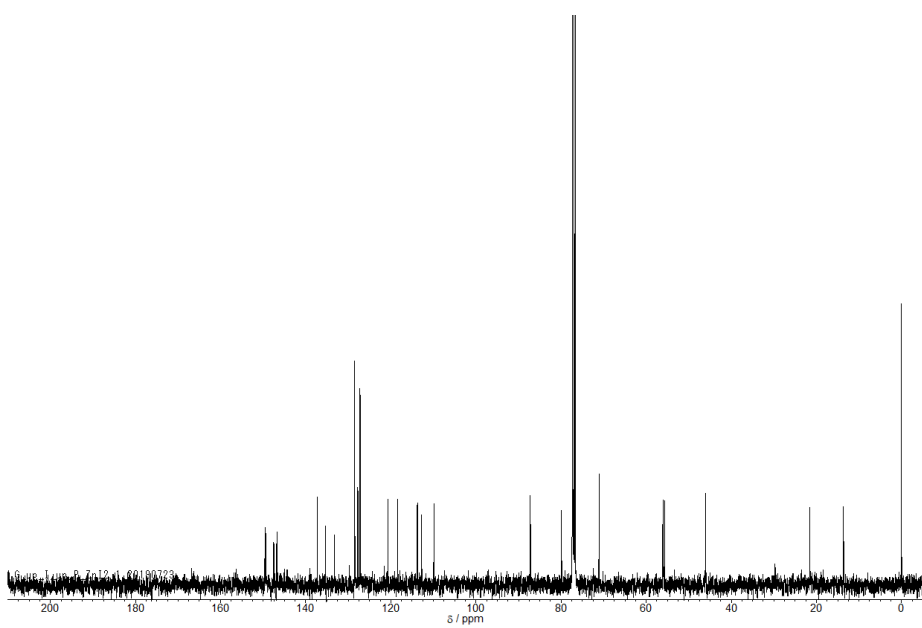
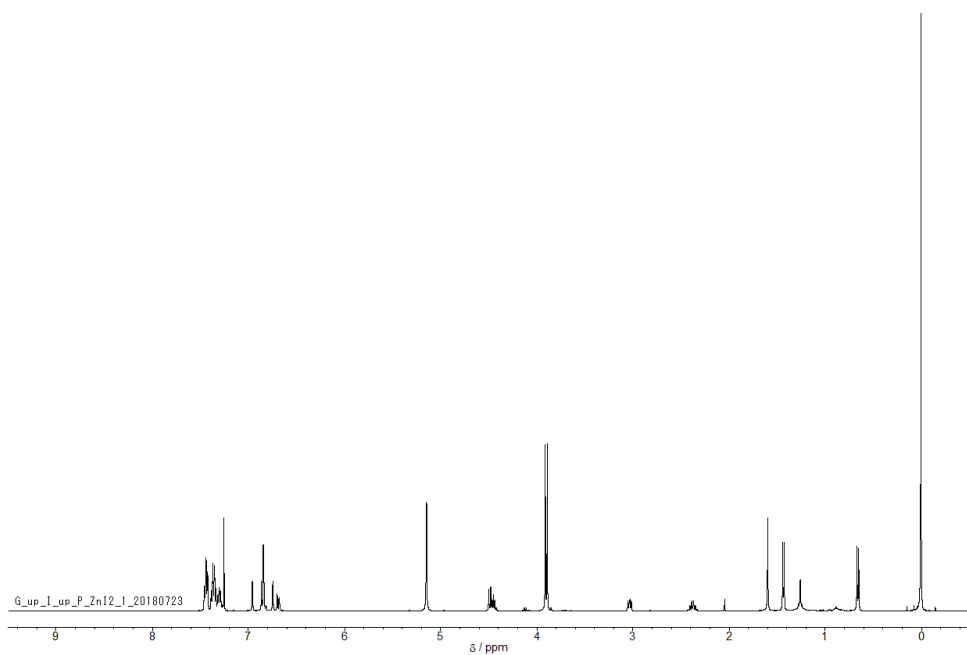
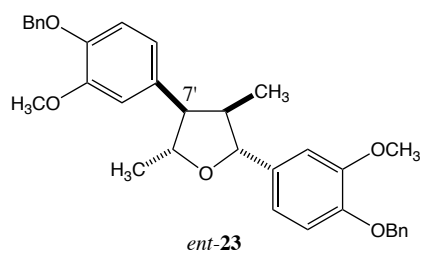


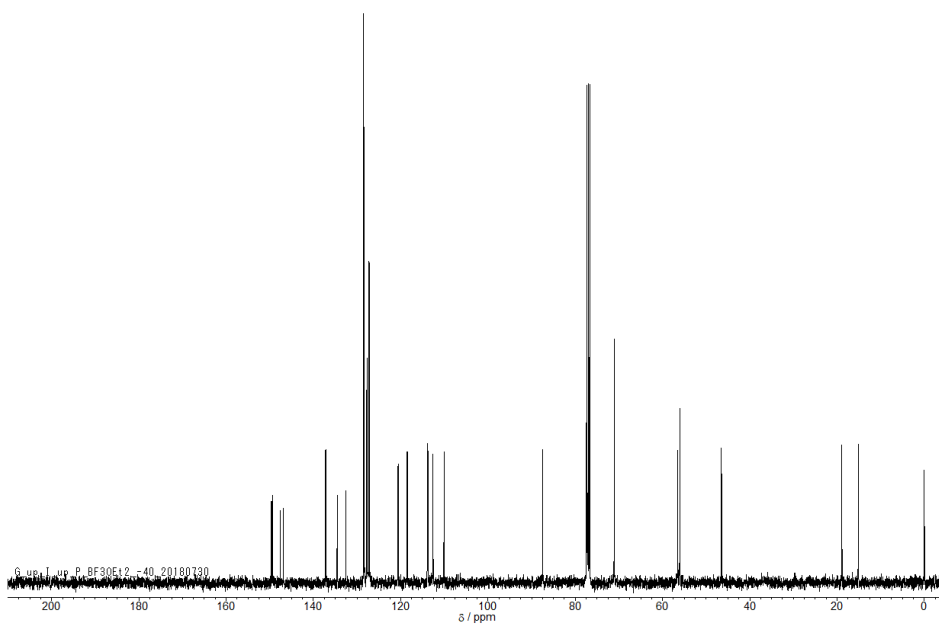
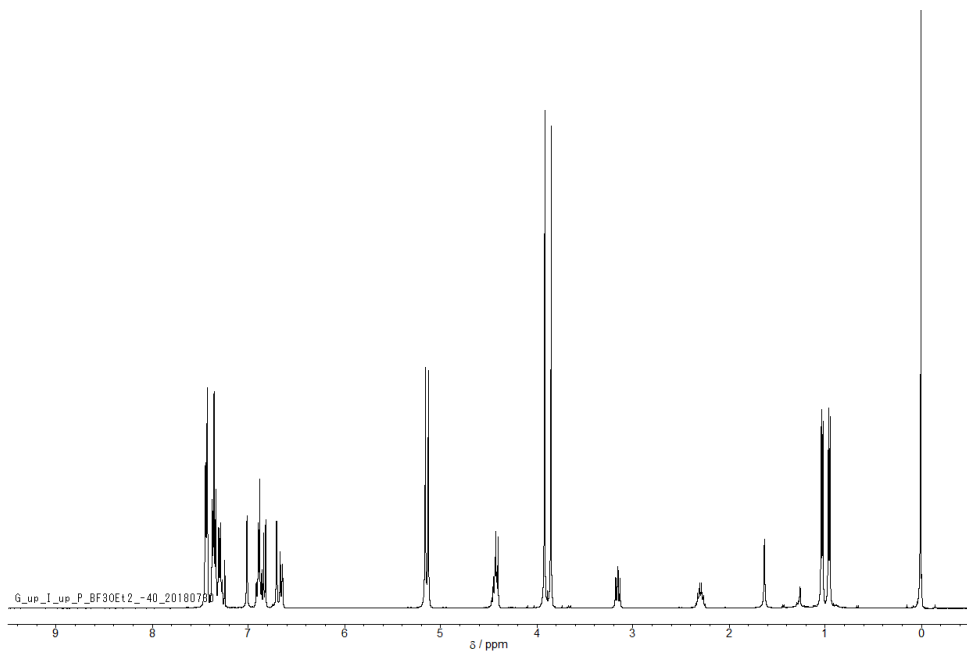
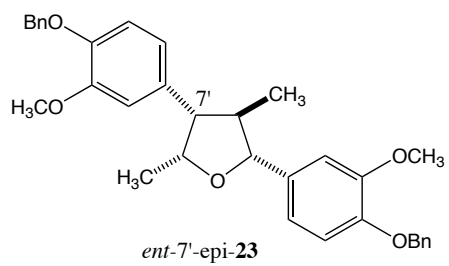


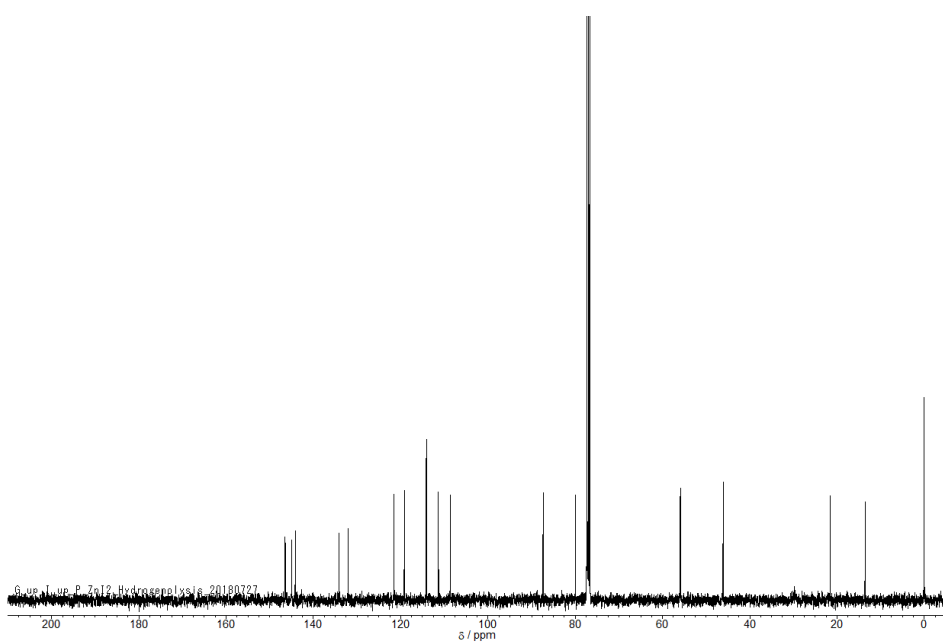
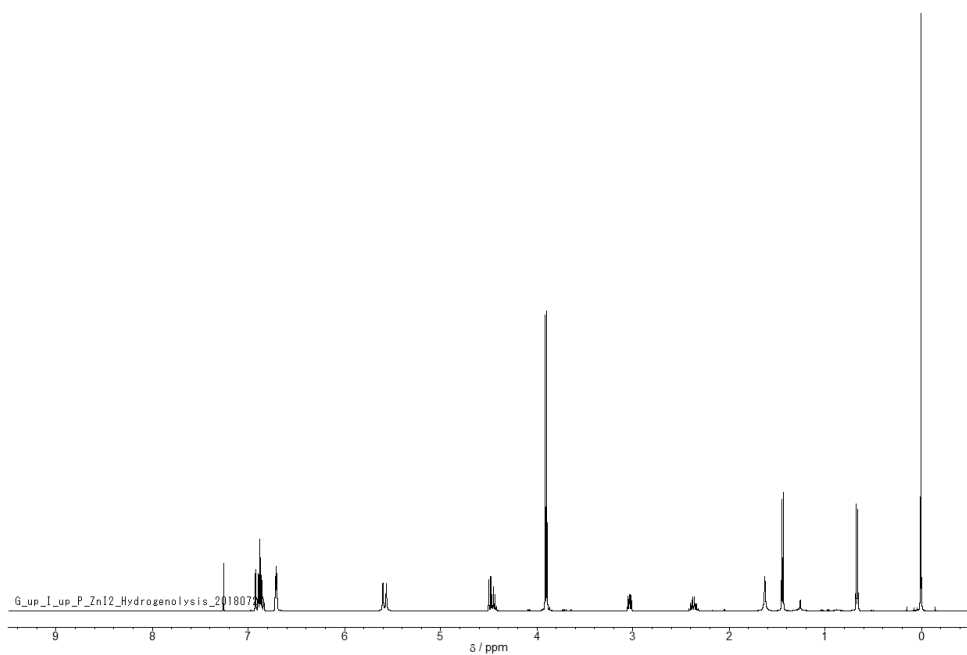
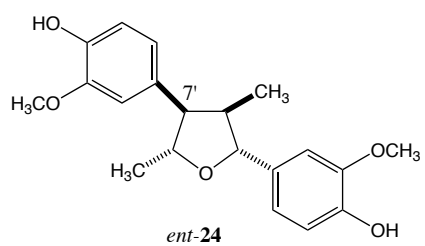
(+)- γ -diisoeugenol ((+)-4)

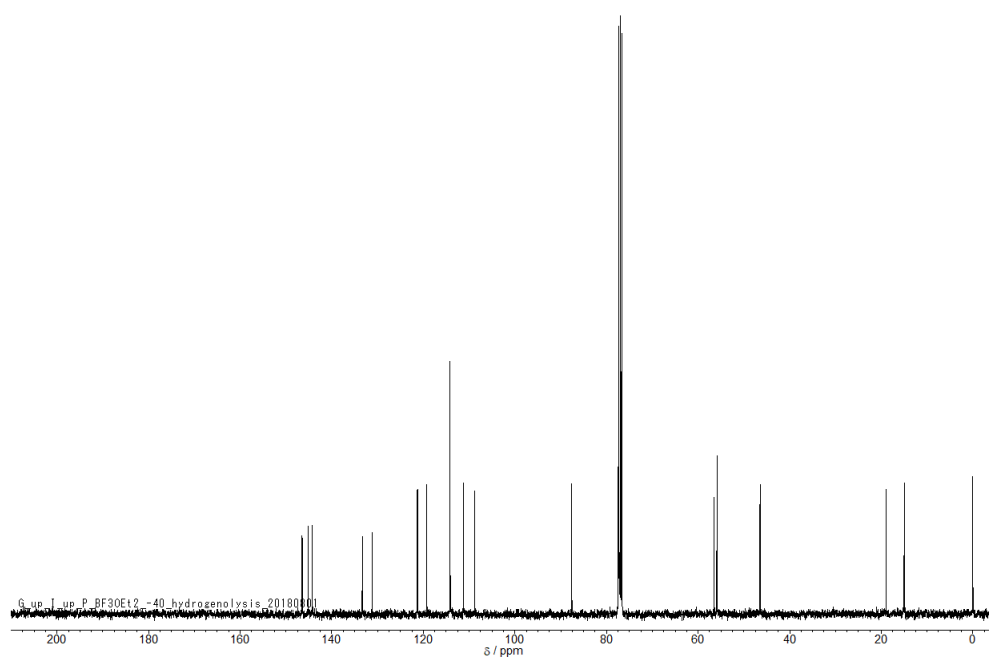
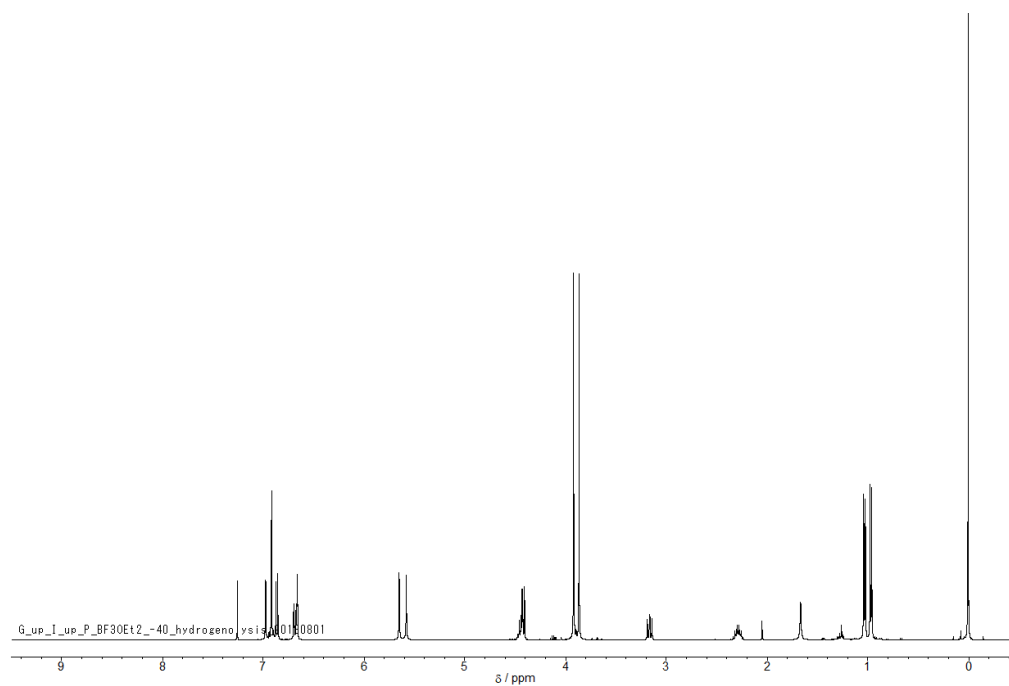
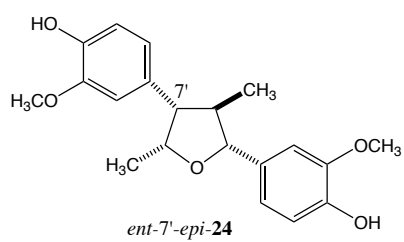


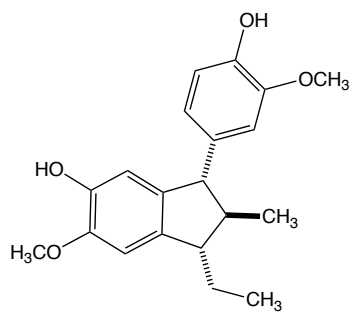




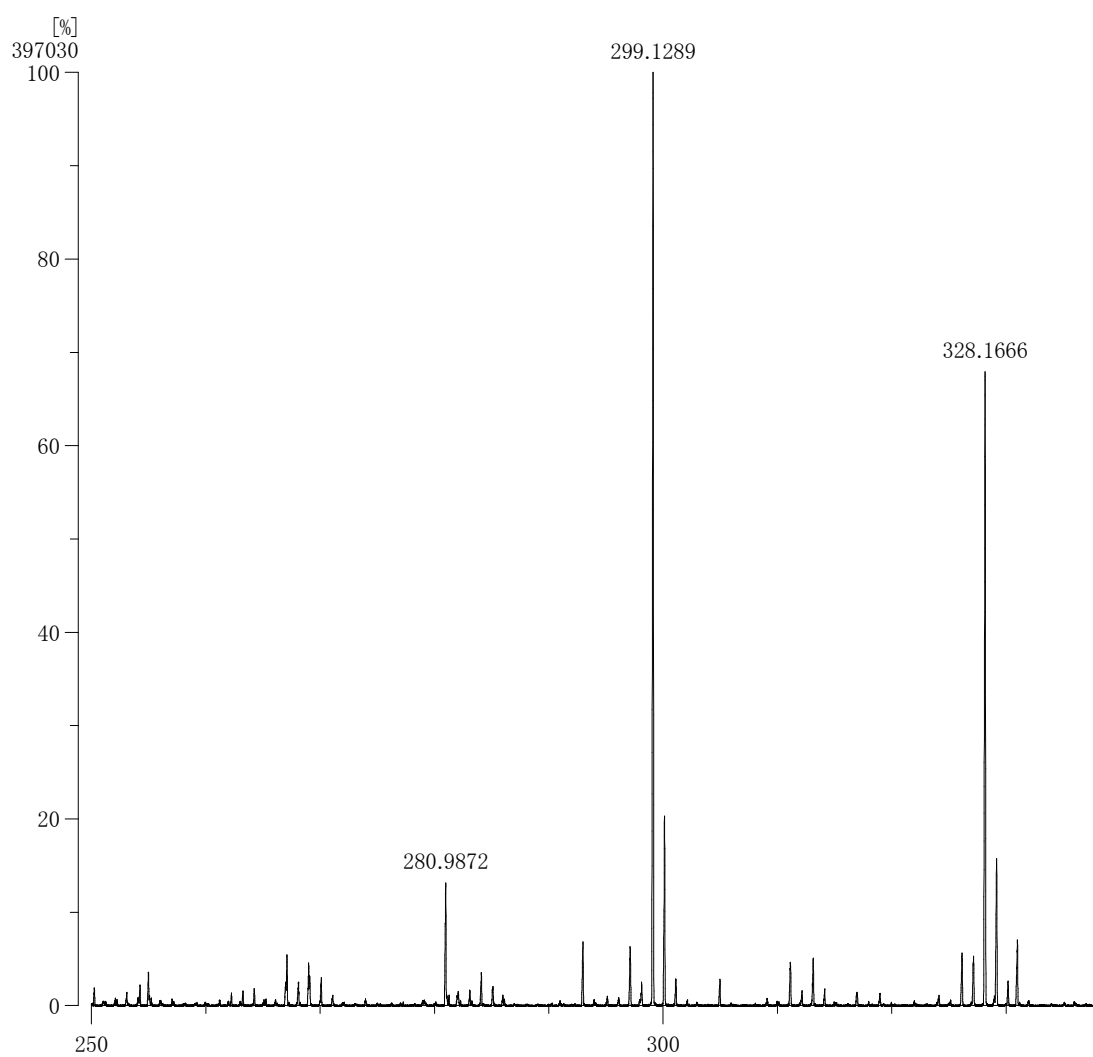


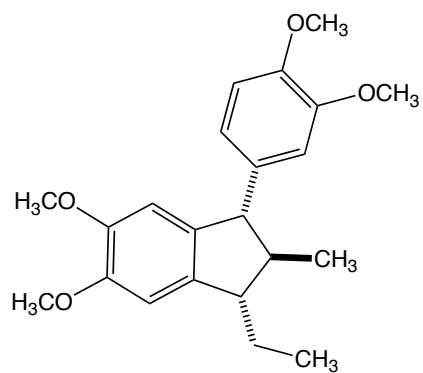




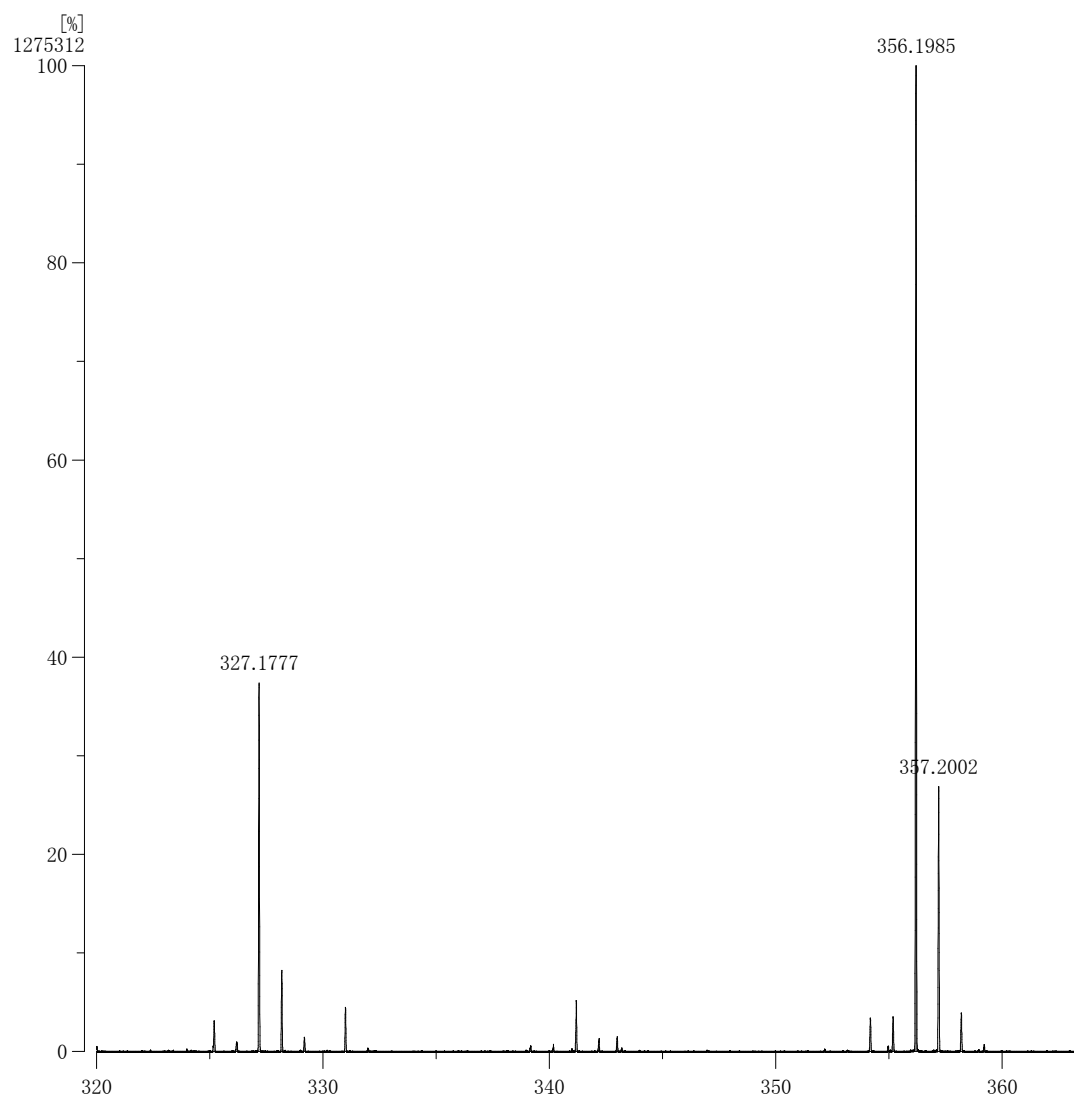


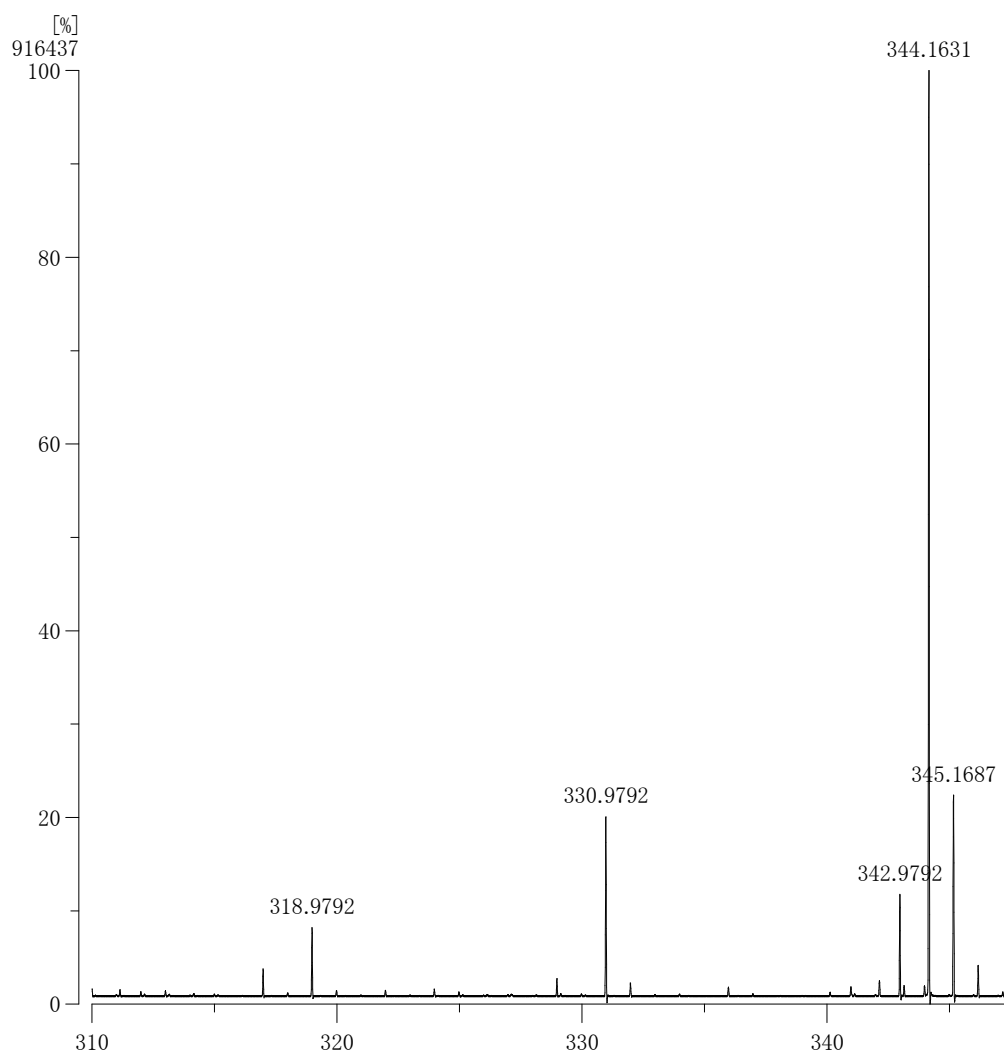
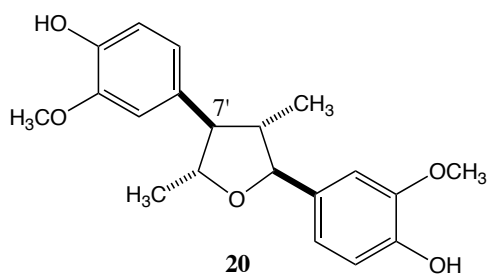
(-)- γ -diisoeugenol ((-)-**4**)

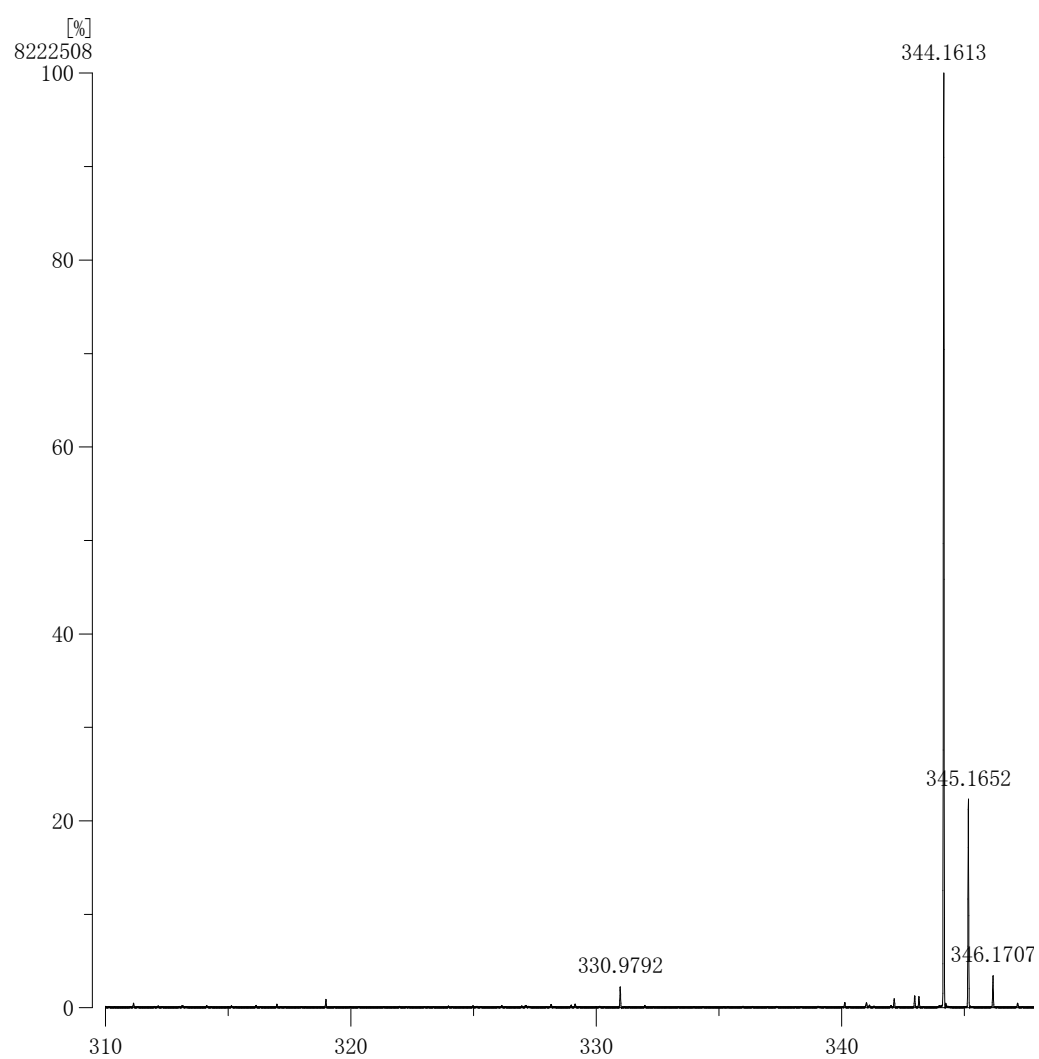
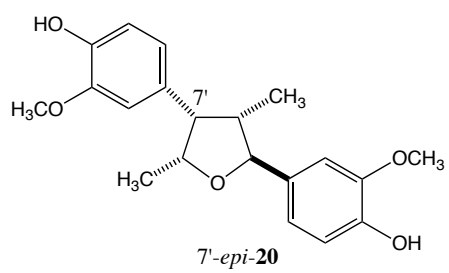


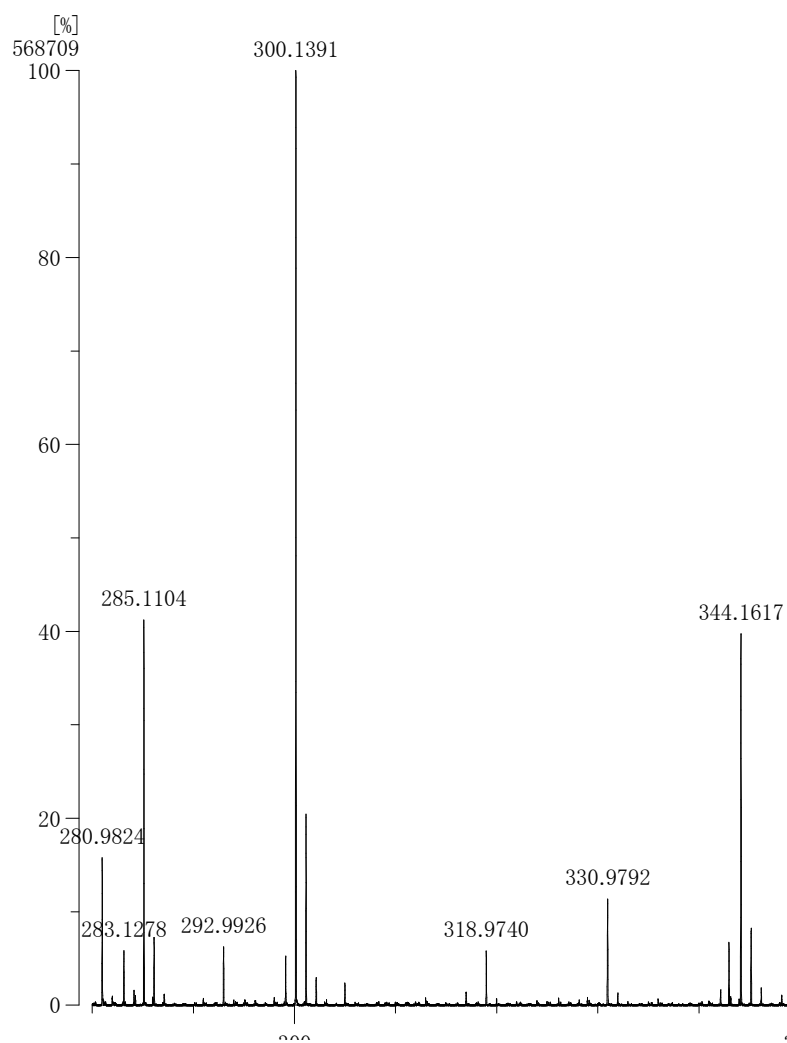
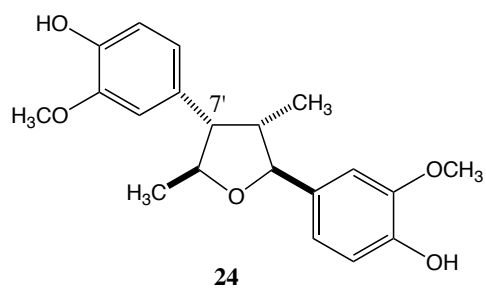


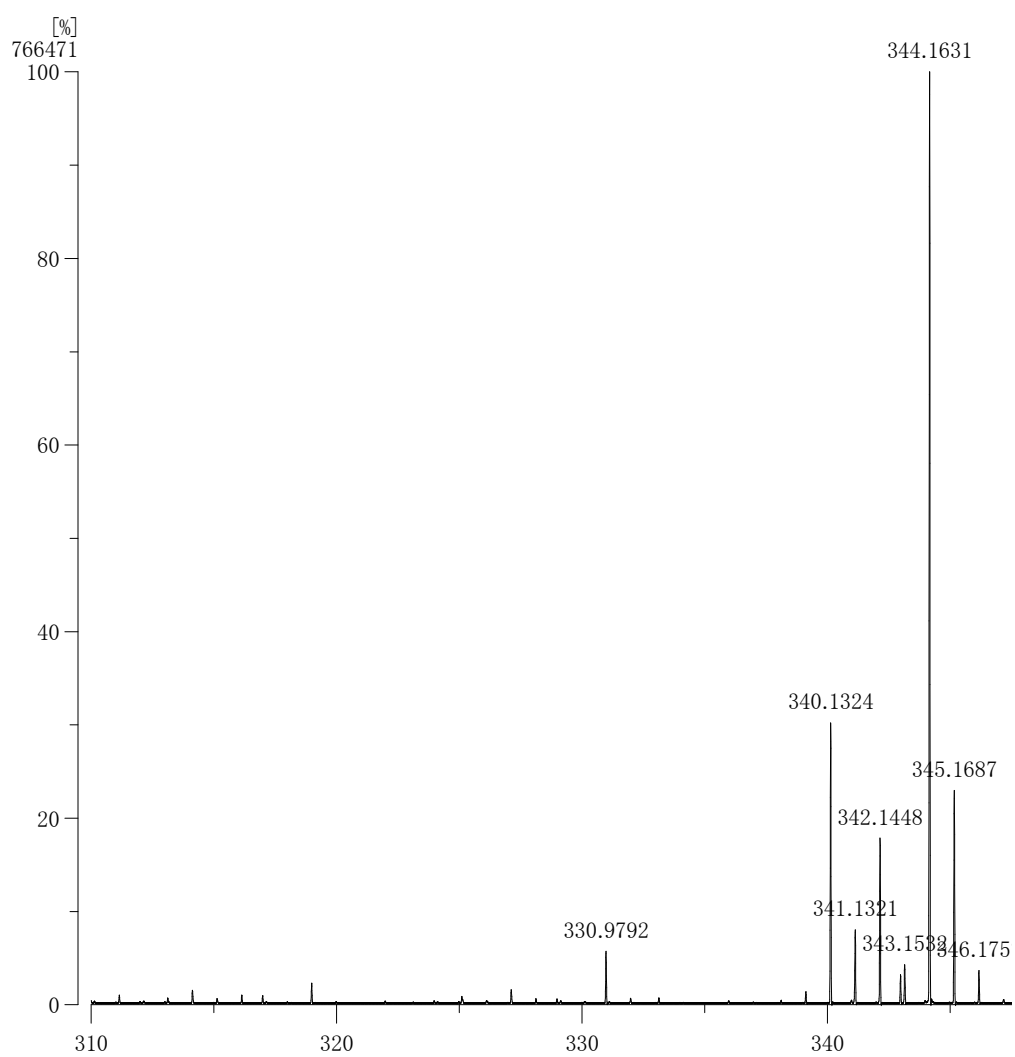
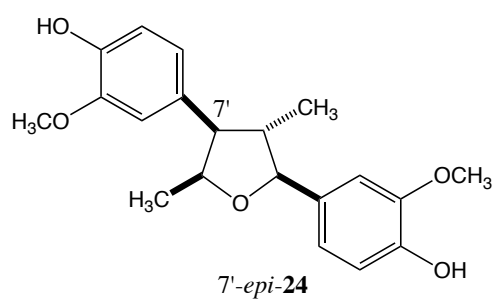
(-)- γ -diisohomogenol ((-)-**5**)

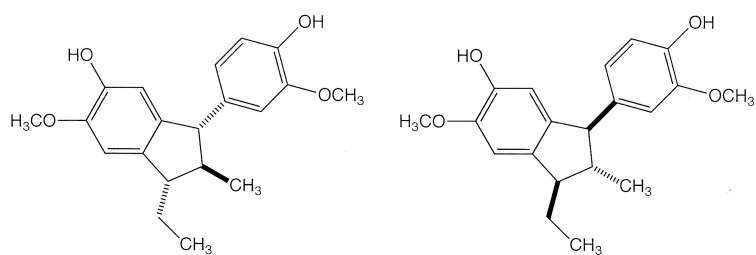




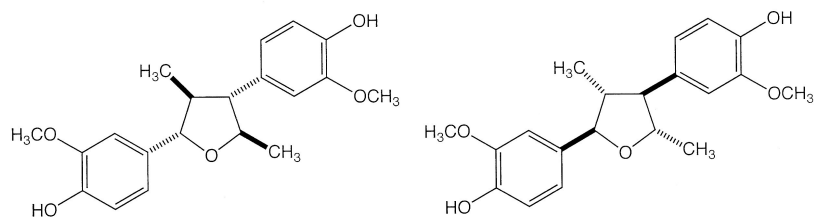
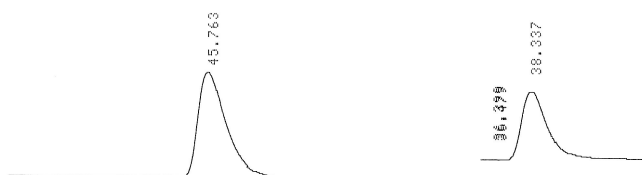




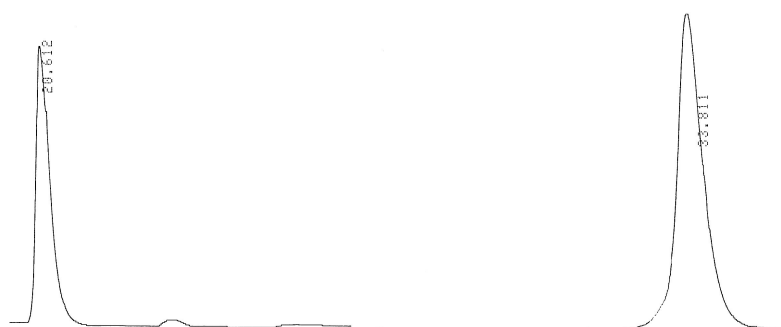


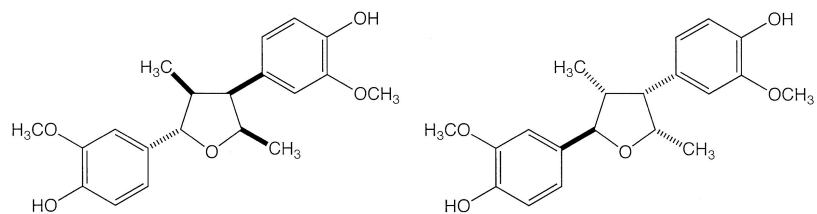


AD-H, 254 nm, 5% isopropyl alcohol/hexane, 1 mL/min

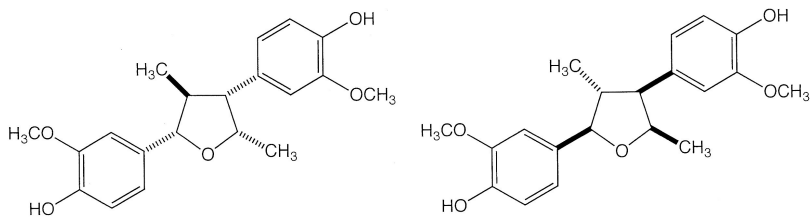


AD-H, 254 nm, isopropyl alcohol/hexane = 1/4, 1 mL/min

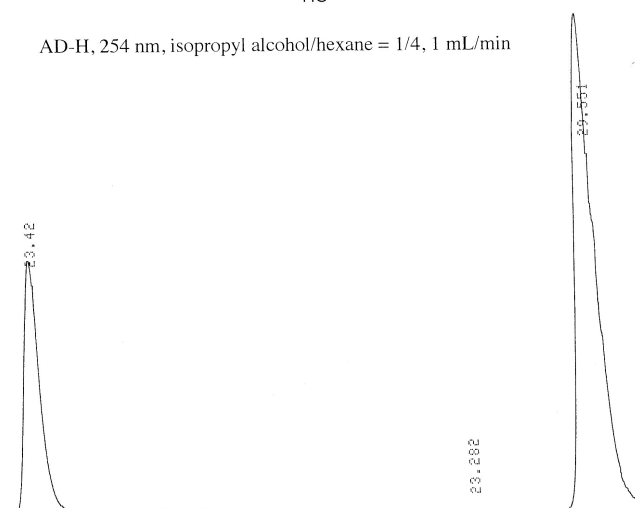


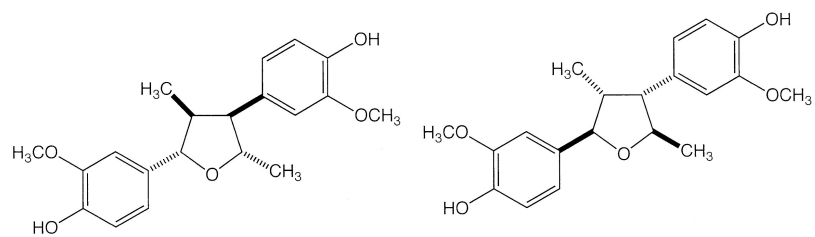


AD-H, 254 nm, isopropyl alcohol/hexane = 1/4, 1 mL/min



AD-H, 254 nm, isopropyl alcohol/hexane = 1/4, 1 mL/min





AD-H, 254 nm, isopropyl alcohol/hexane = 1/4, 1 mL/min

