

First total synthesis of the marine natural products clavulolactones II and III.

Supporting Information

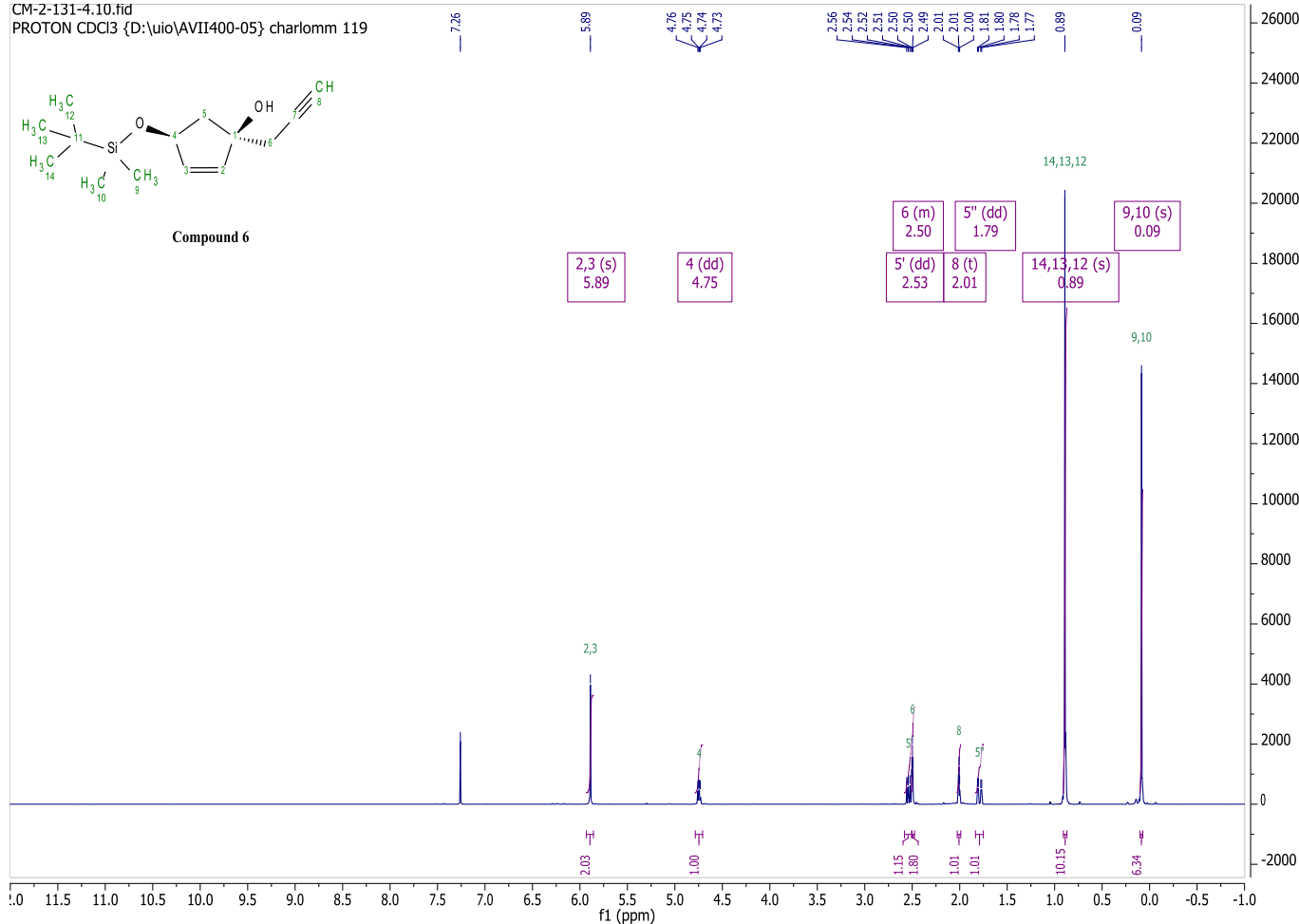
Charlotte M. Miller^a, Tore Benneche^{a*} and Marcus A. Tius^b

^aDepartment of Chemistry, University of Oslo, Blindern, 0315 Oslo, Norway. ^bDepartment of Chemistry, 2545 The Mall, University of Hawaii, Honolulu, Hawaii 96822, USA.

¹H and ¹³C NMR spectra

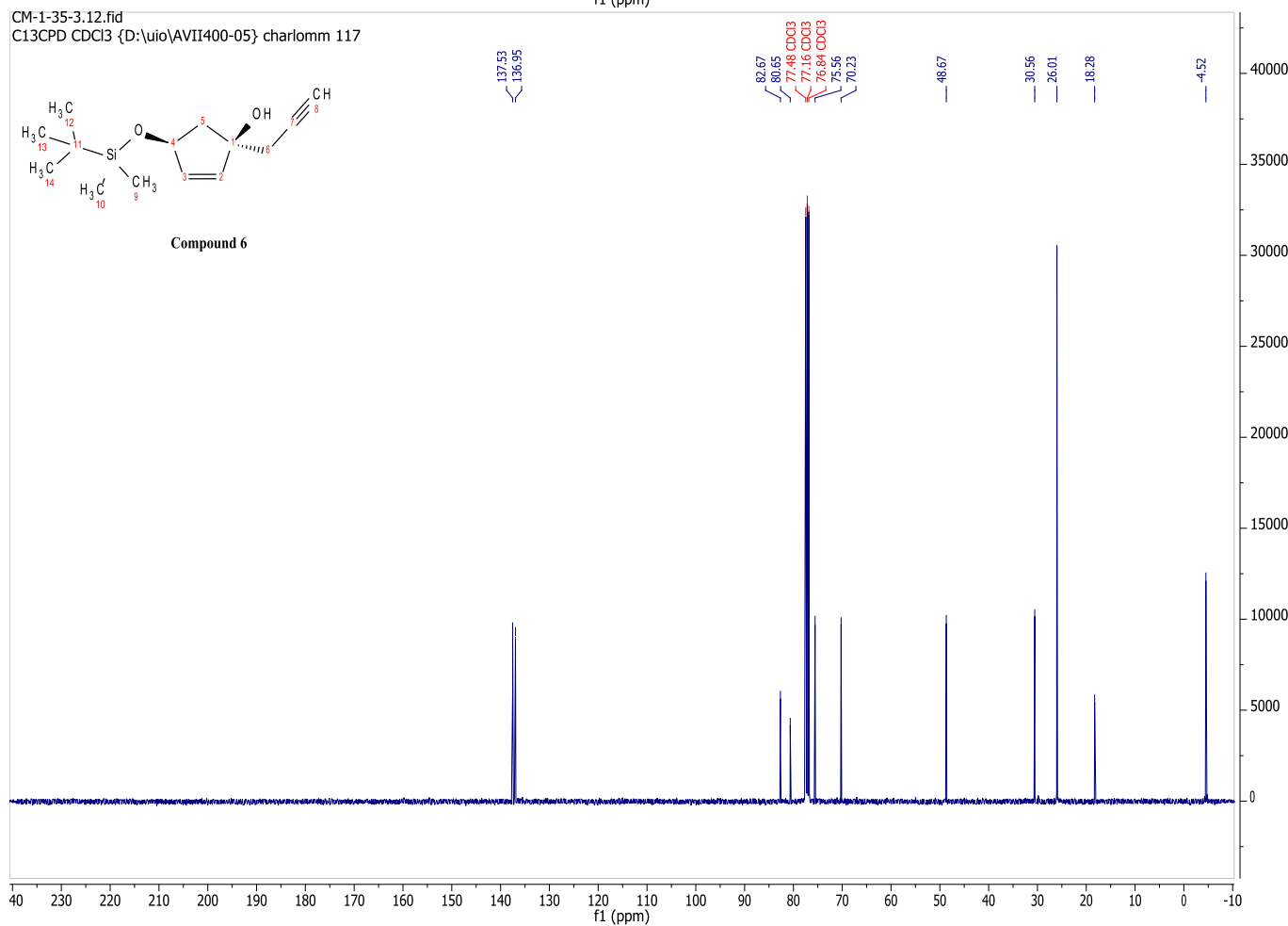
CM-2-131-4.10.fid

PROTON CDCl₃ {D:\uio\AVII400-05} charlomm 119

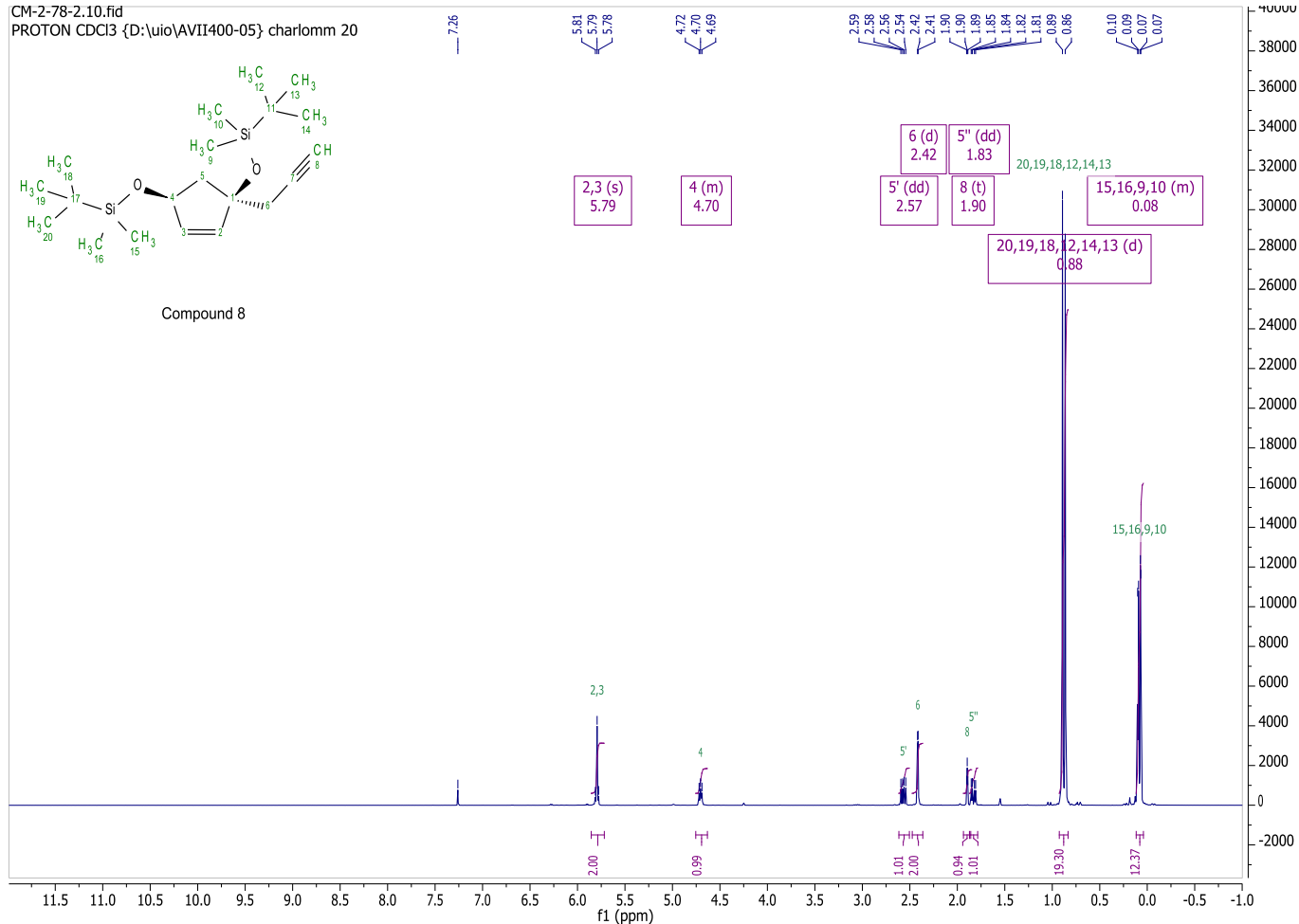


CM-1-35-3.12.fid

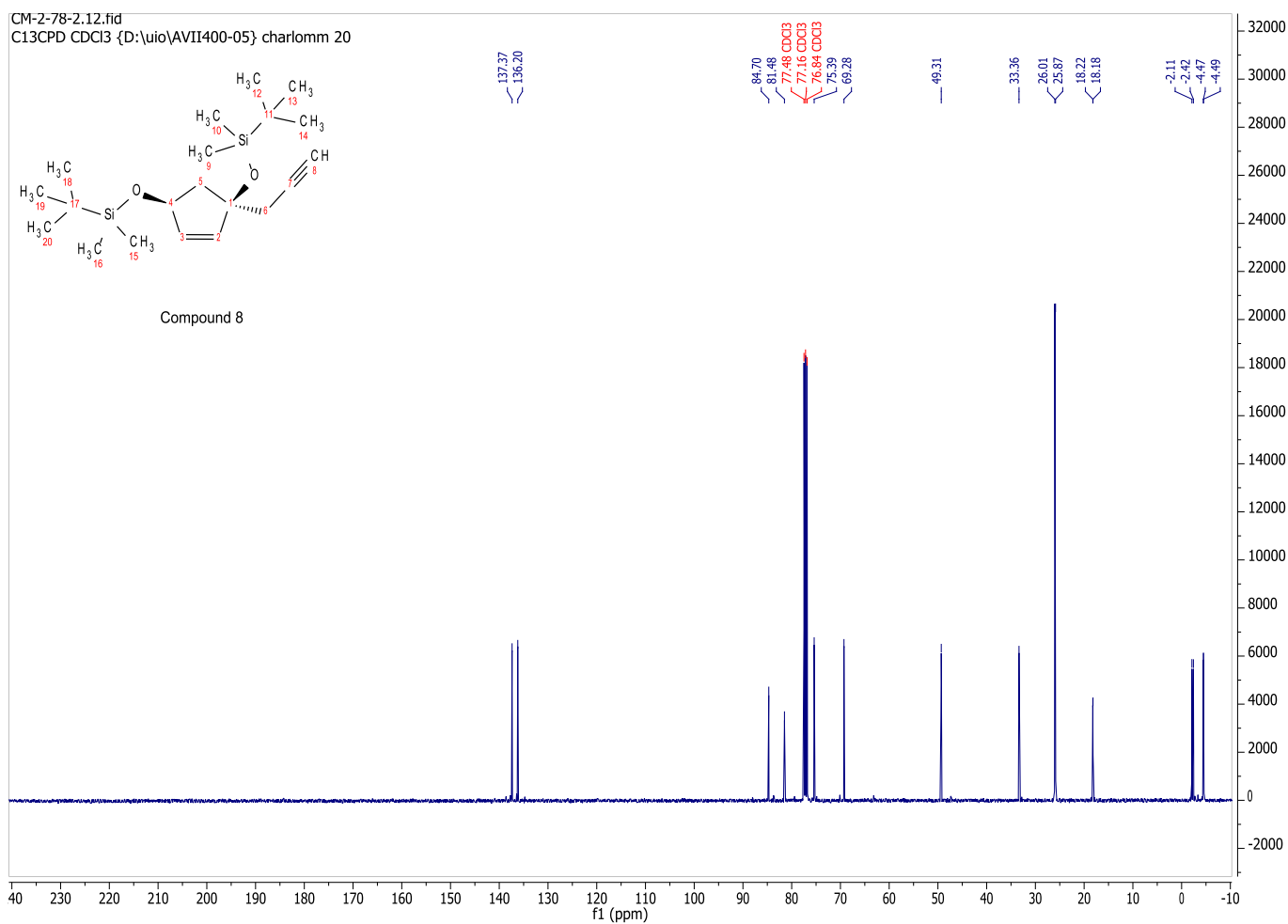
C13CPD CDCl₃ {D:\uio\AVII400-05} charlomm 117



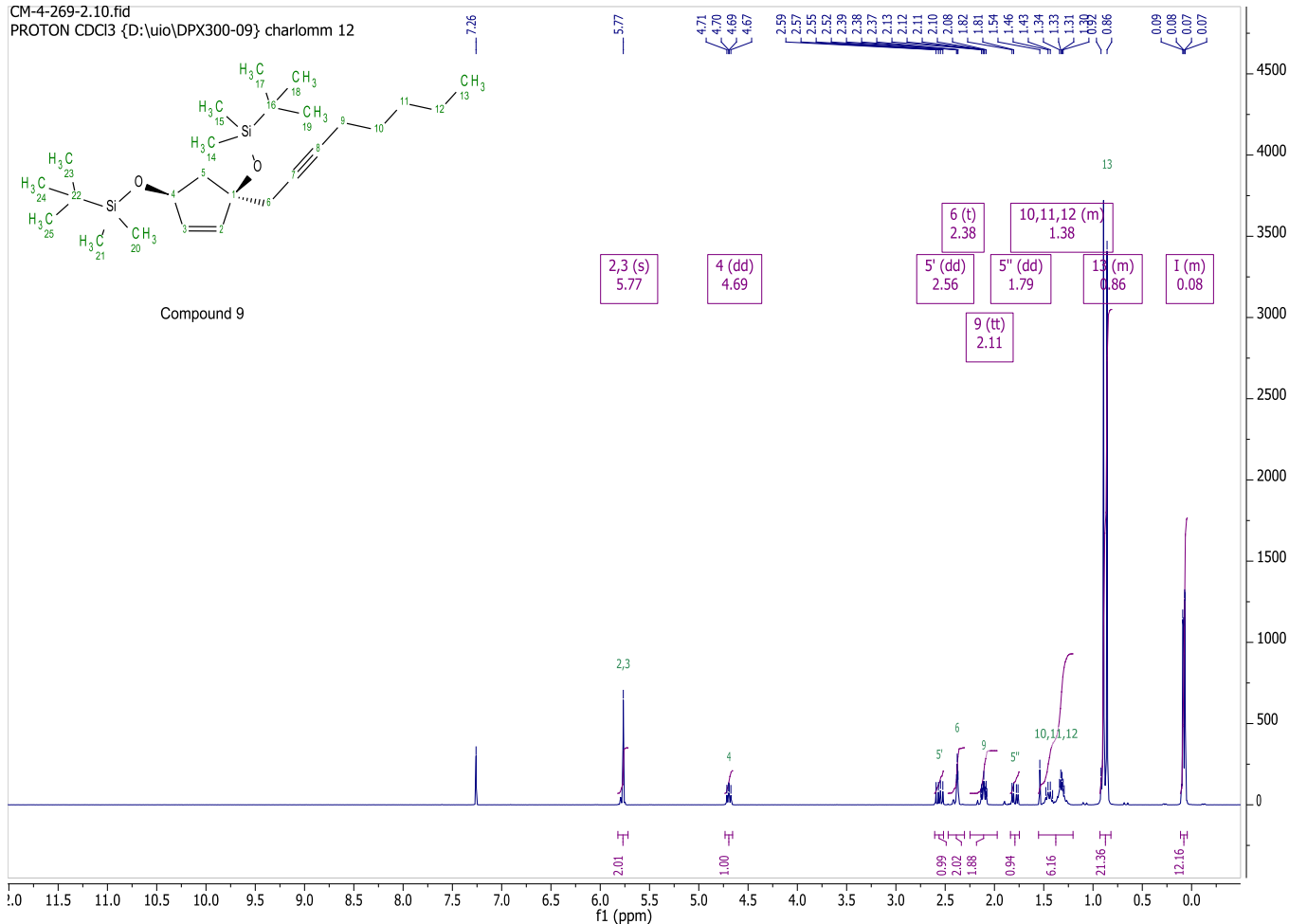
CM-2-78-2.10.fid
 PROTON CDCl3 {D:\uio\AVII400-05} charlomm 20



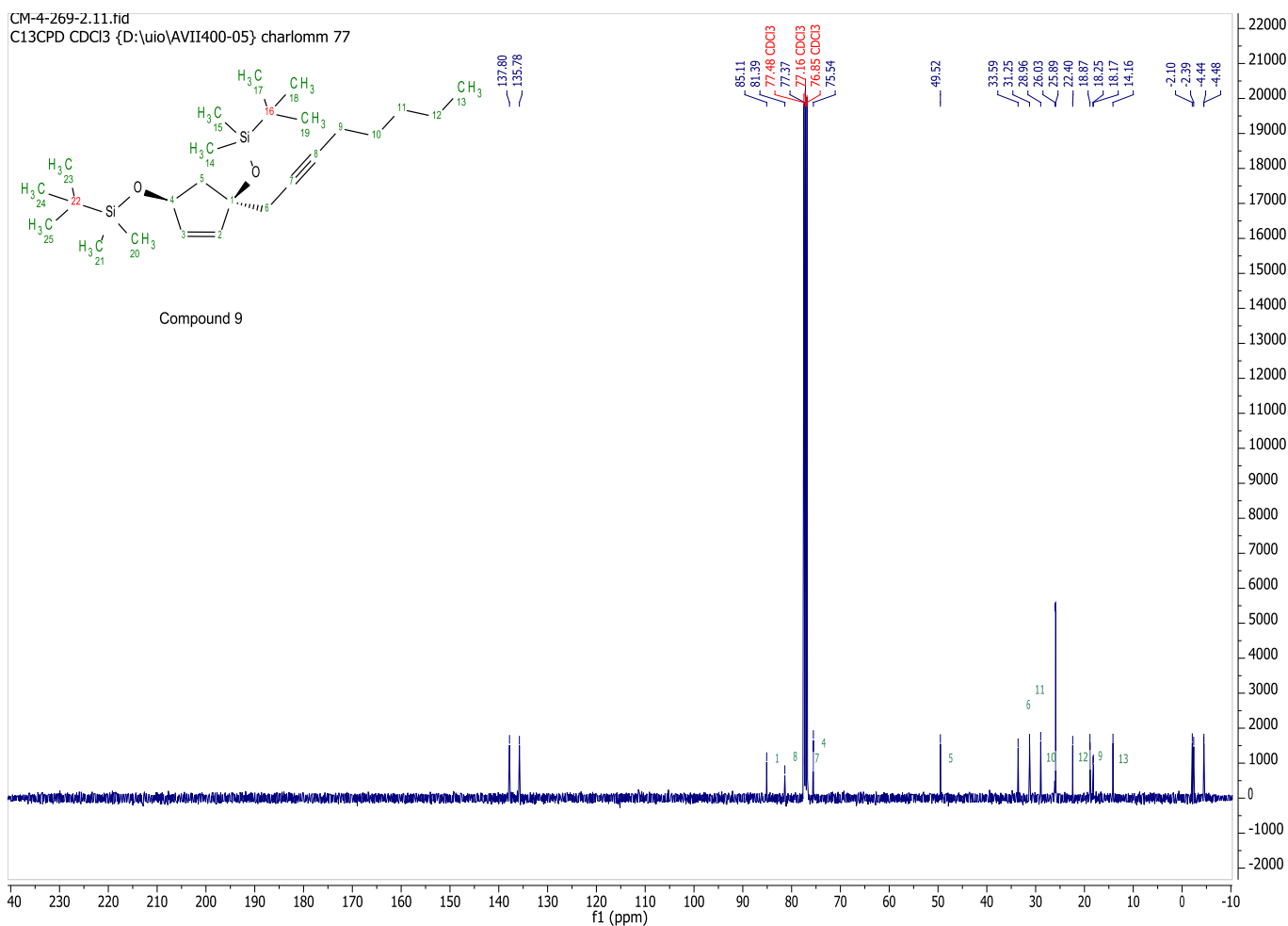
CM-2-78-2.12.fid
 C13CPD CDCl3 {D:\uio\AVII400-05} charlomm 20



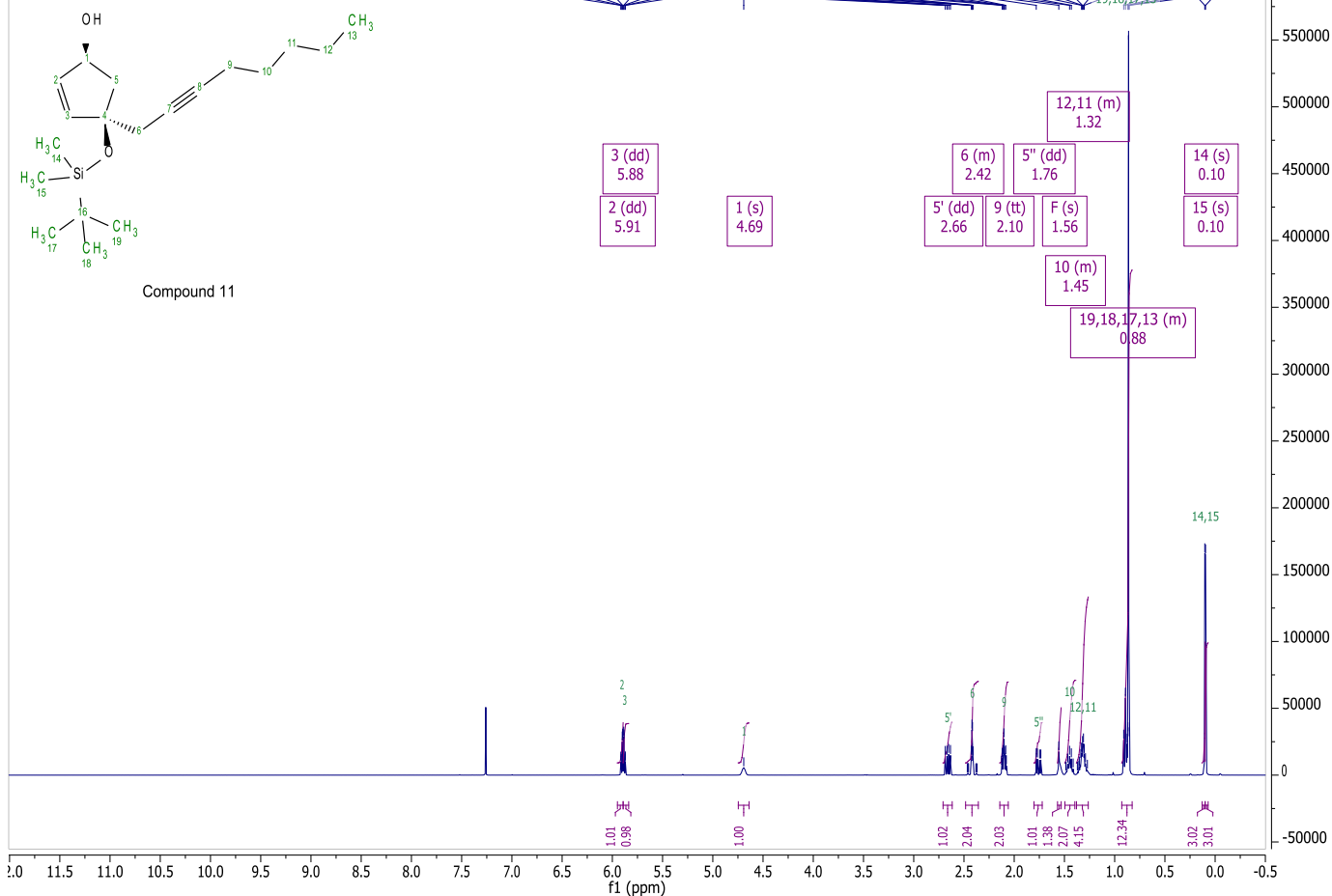
CM-4-269-2.10.fid
 PROTON CDCl3 {D:\uio\DPX300-09} charlomm 12



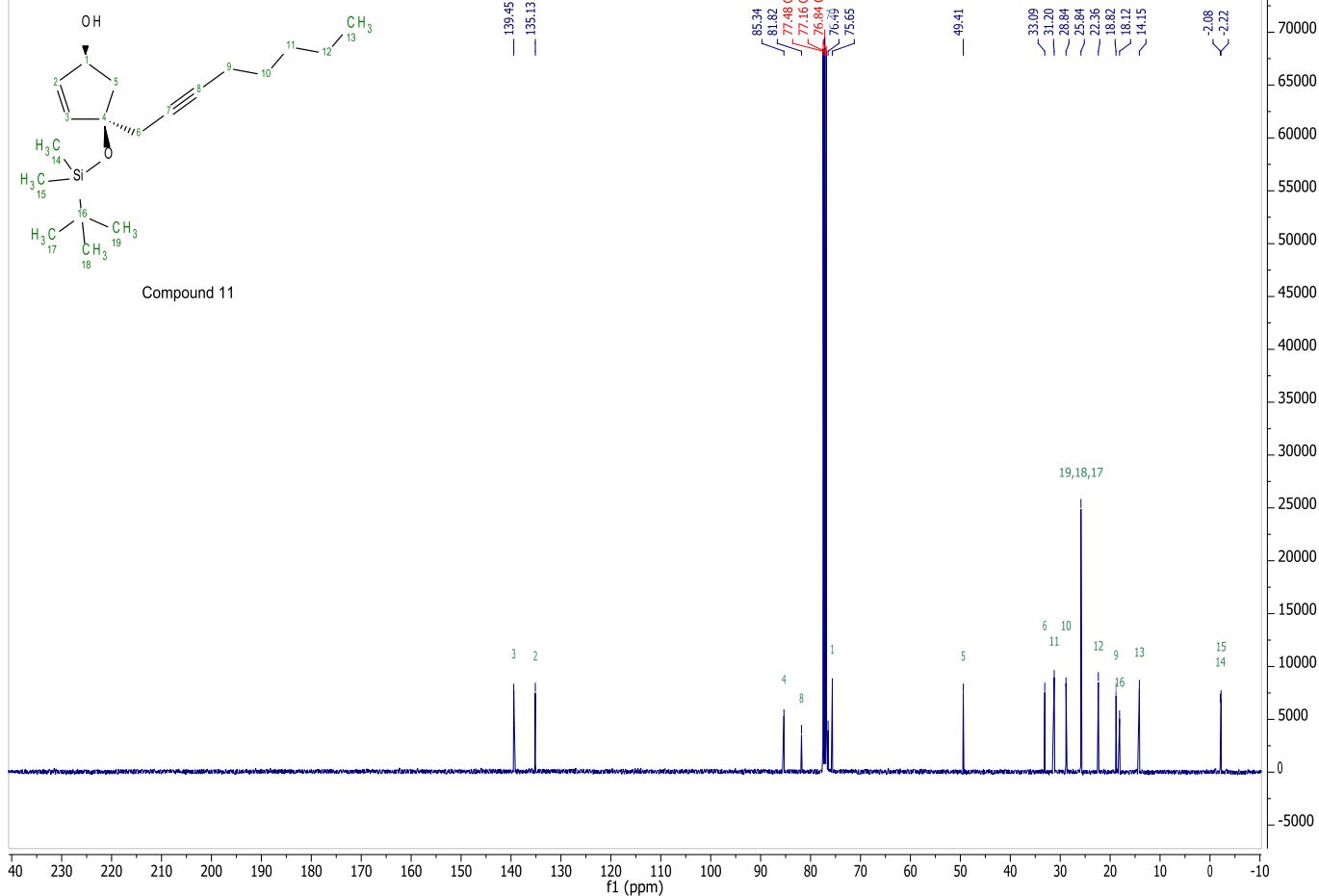
CM-4-269-2.11.fid
 C13CPD CDCl3 {D:\uio\AVII400-05} charlomm 77



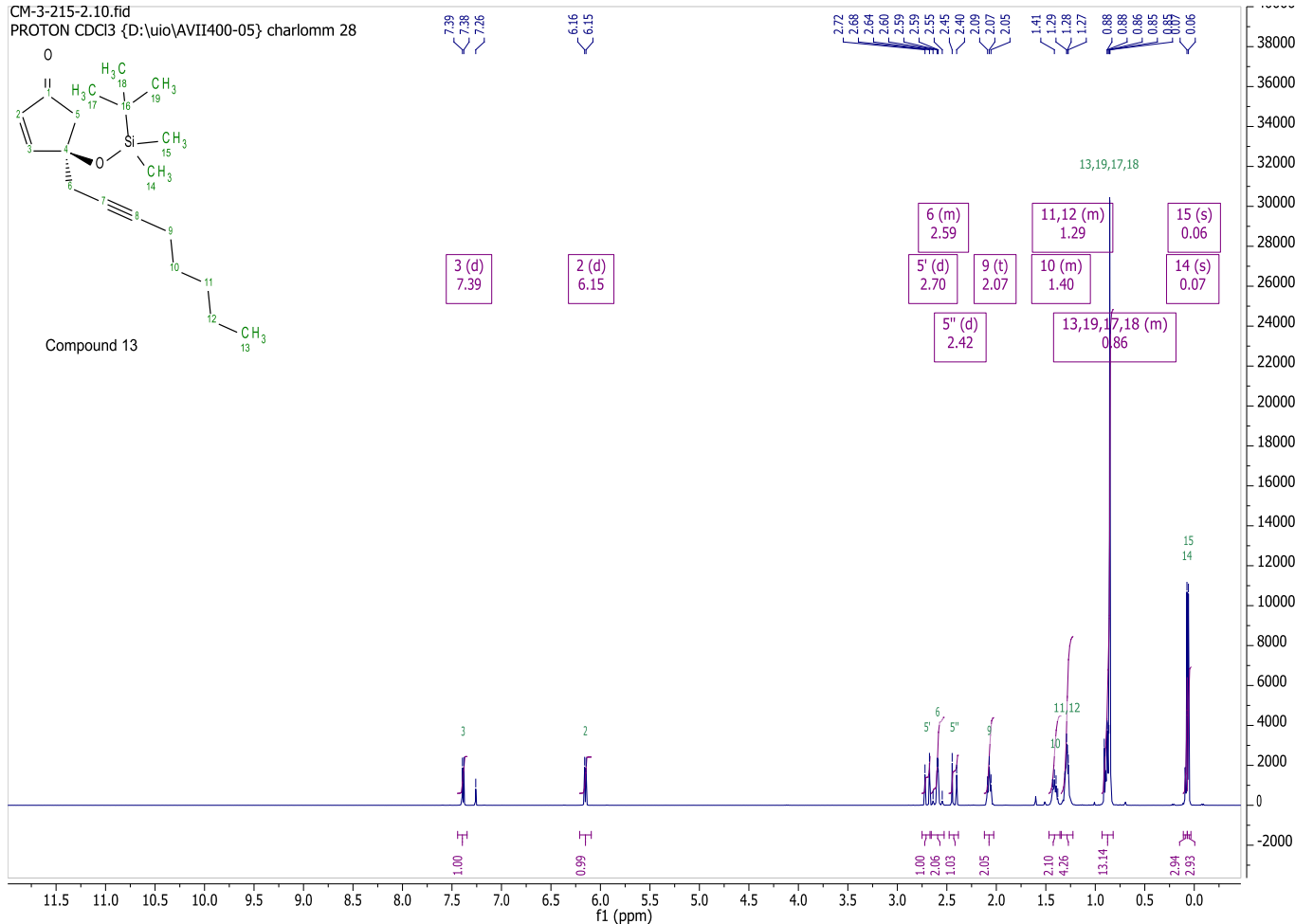
CM-3-210-2-1.20.fid
 PROTON128 CDCl3 {D:\uio\AVII400-05} charlomm 112



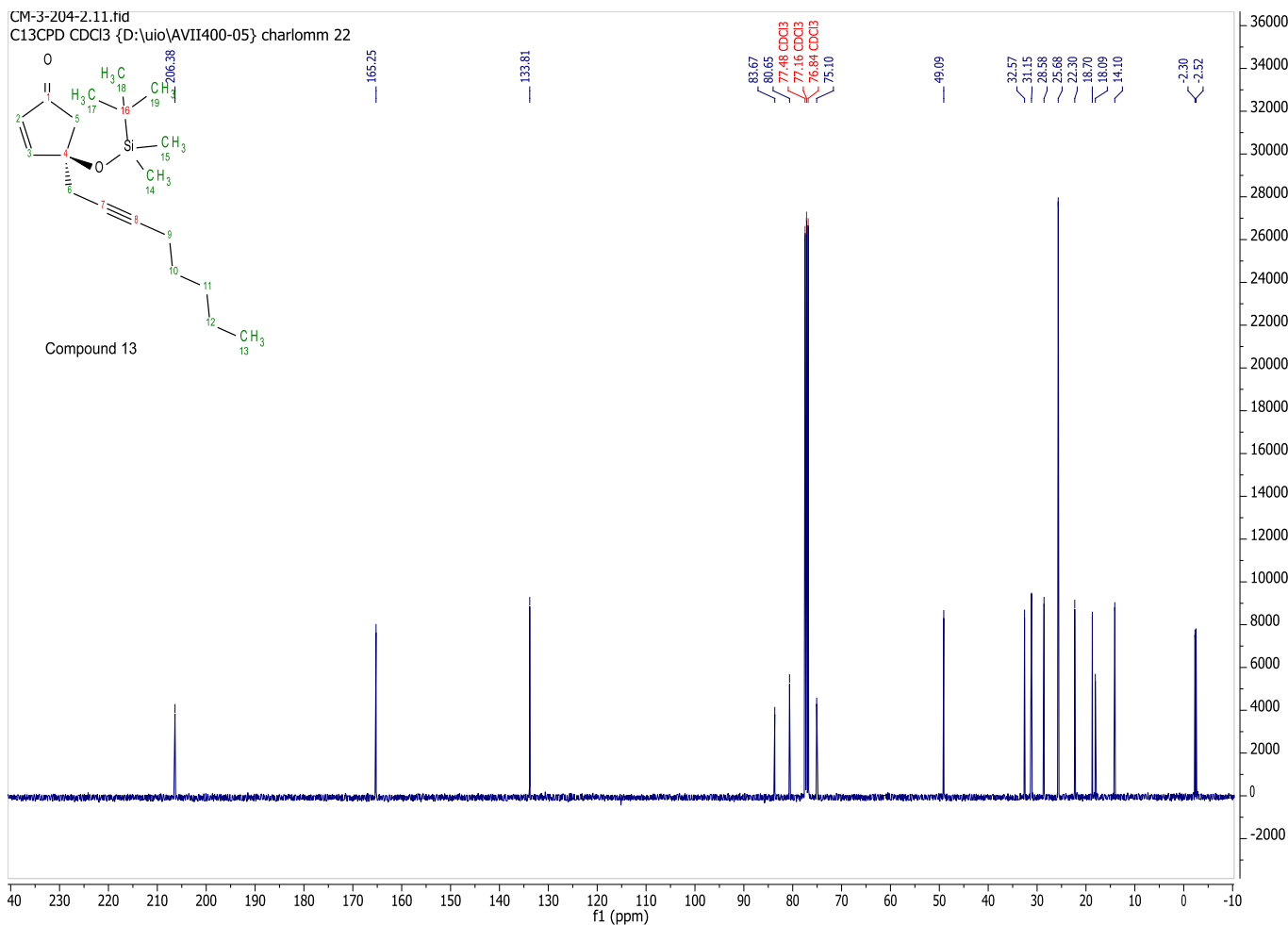
CM-3-210-2-1.21.fid
 C13CPD CDCl3 {D:\uio\AVII400-05} charlomm 112



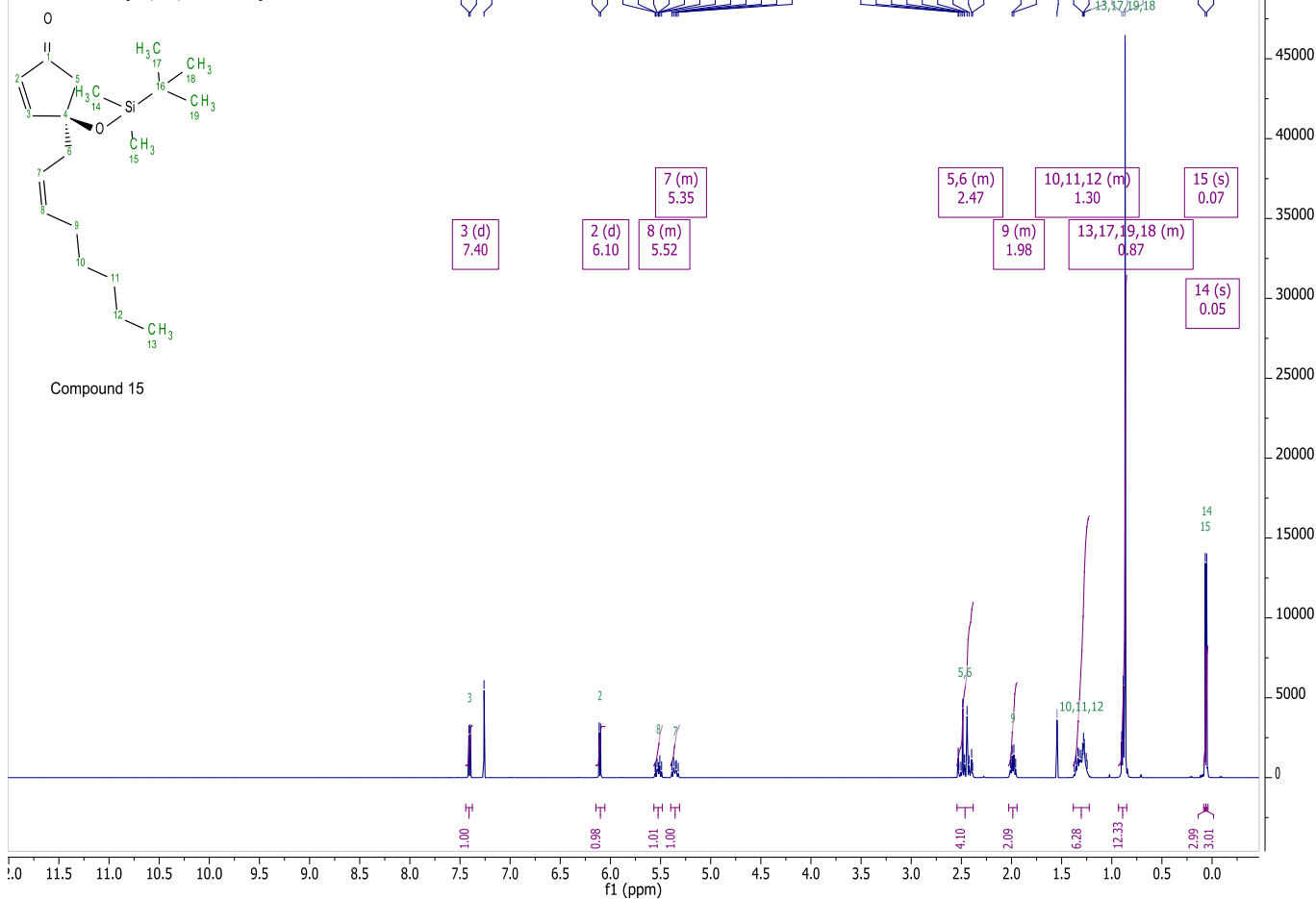
CM-3-215-2.10.fid
 PROTON CDCI3 {D:\uio\AVII400-05} charlomm 28



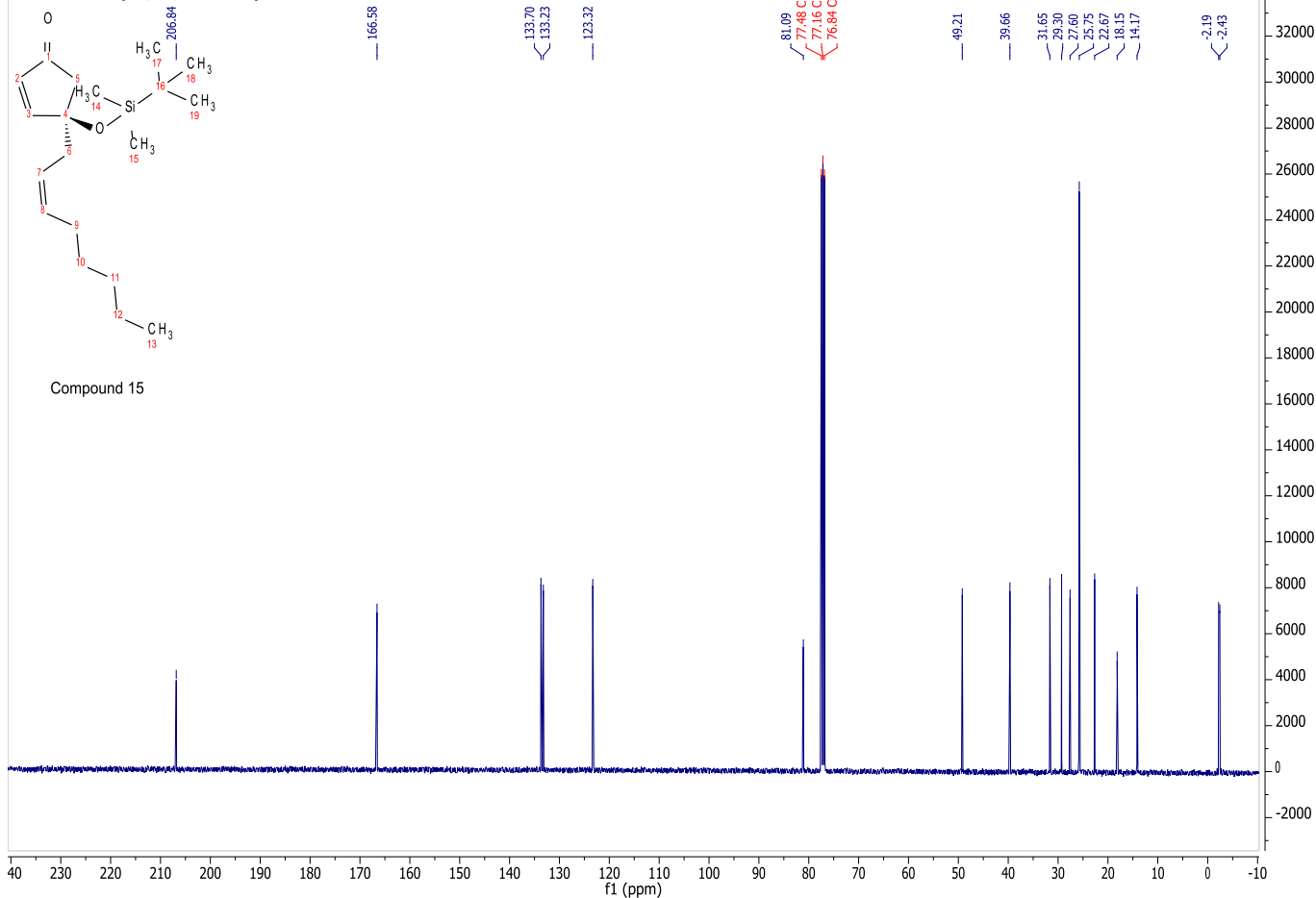
CM-3-204-2.11.fid
 C13CPD CDCI3 {D:\uio\AVII400-05} charlomm 22

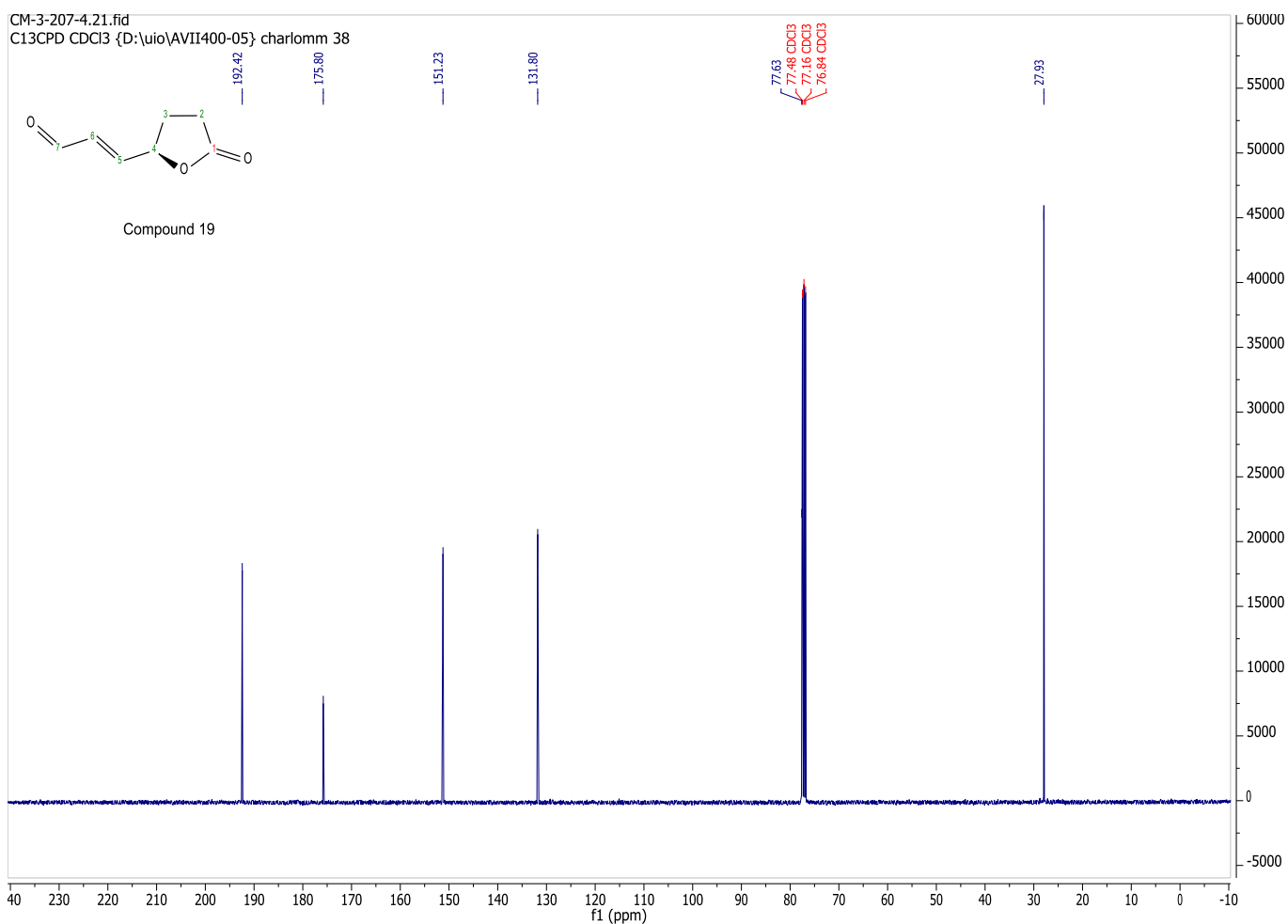
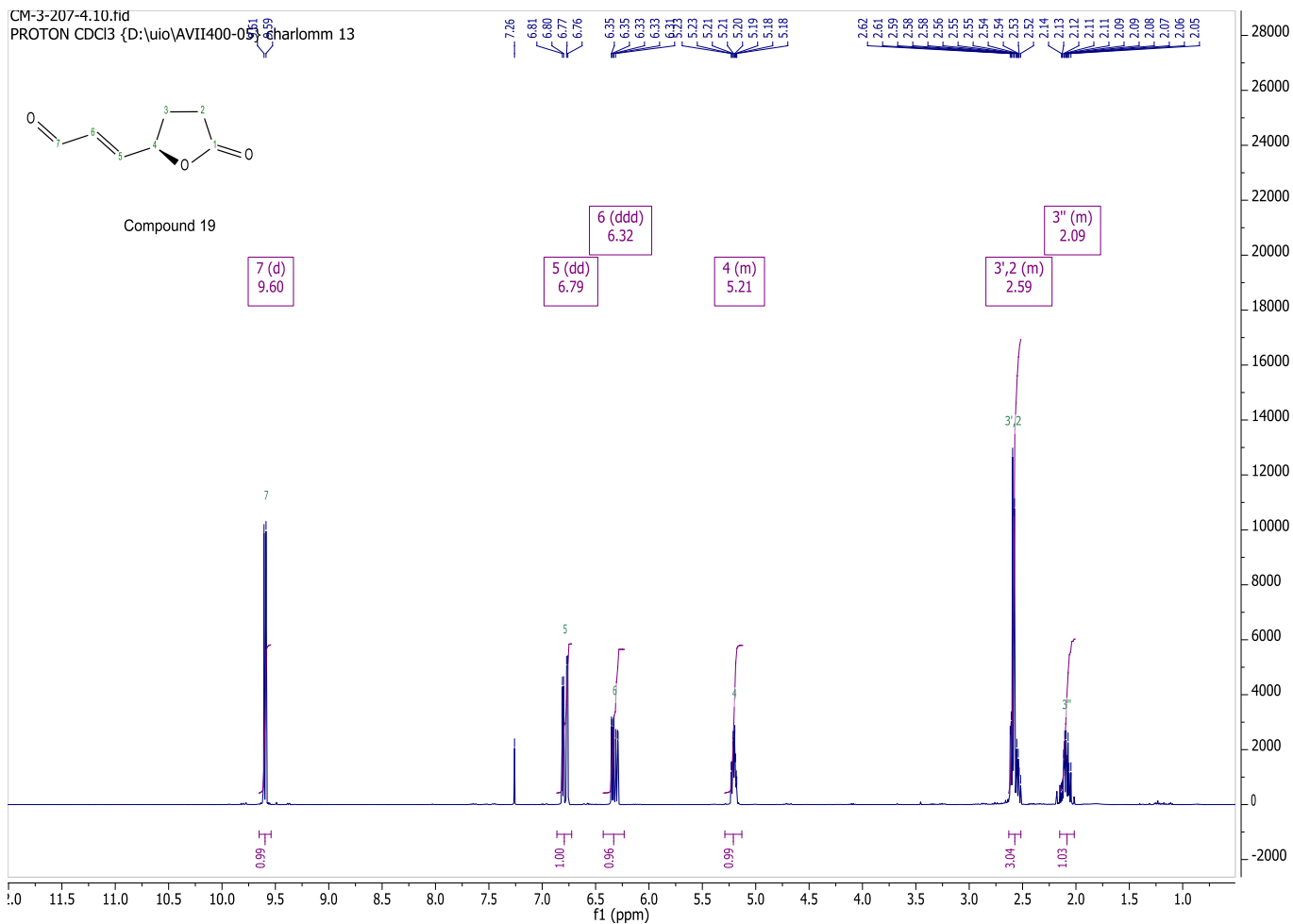


CM-4-253-4.10.fid
 PROTON CDCl3 {D:\uio\AVII400-05} charlomm 88

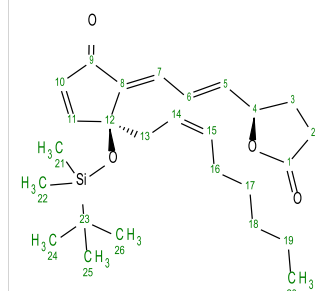


CM-4-253-4.21.fid
 C13CPD CDCl3 {D:\uio\AVII400-05} charlomm 10

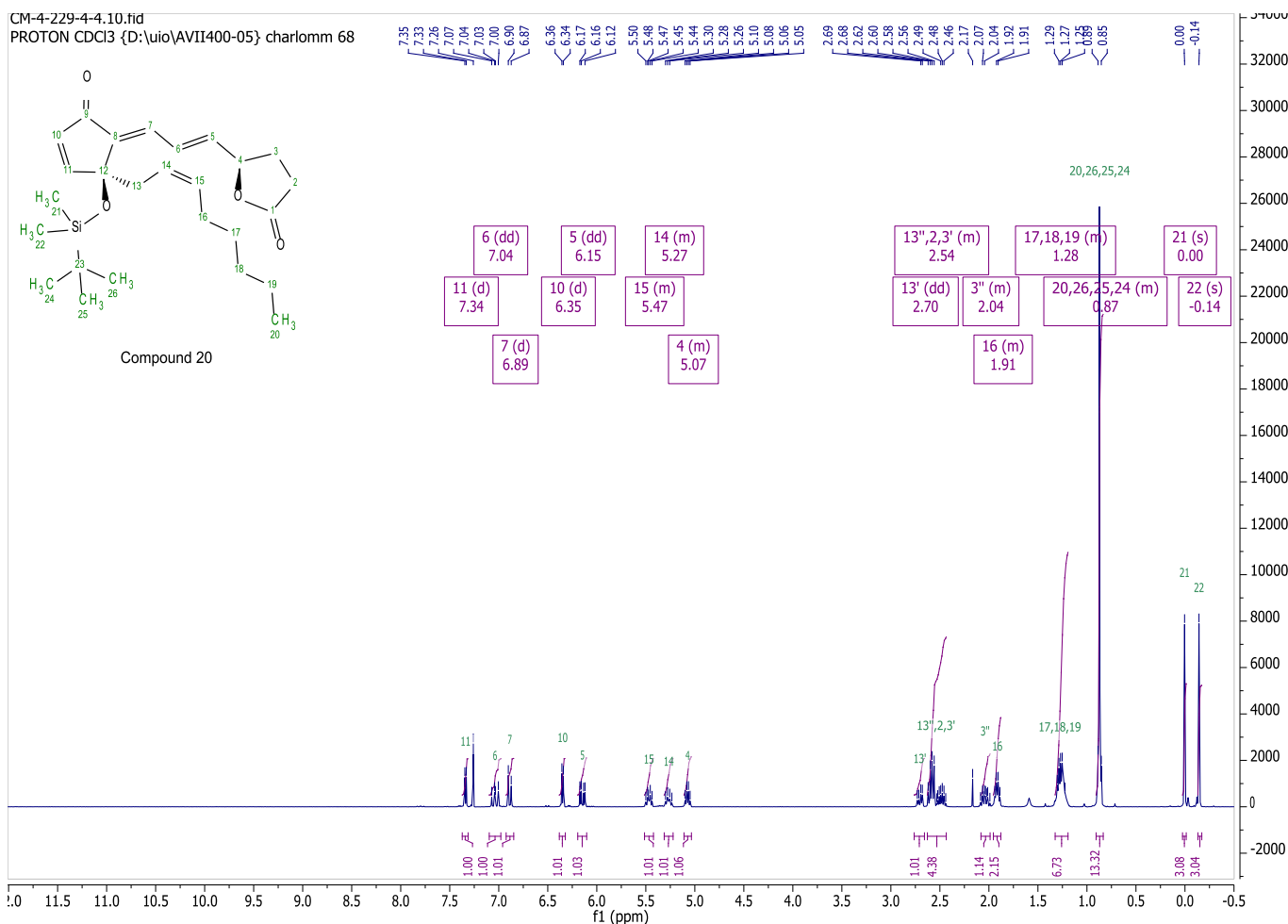




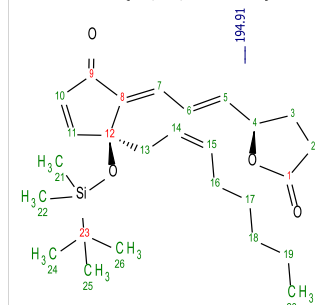
CM-4-229-4-4.10.fid
 PROTON CDCl₃ {D:\uio\AVII400-05} charlomm 68



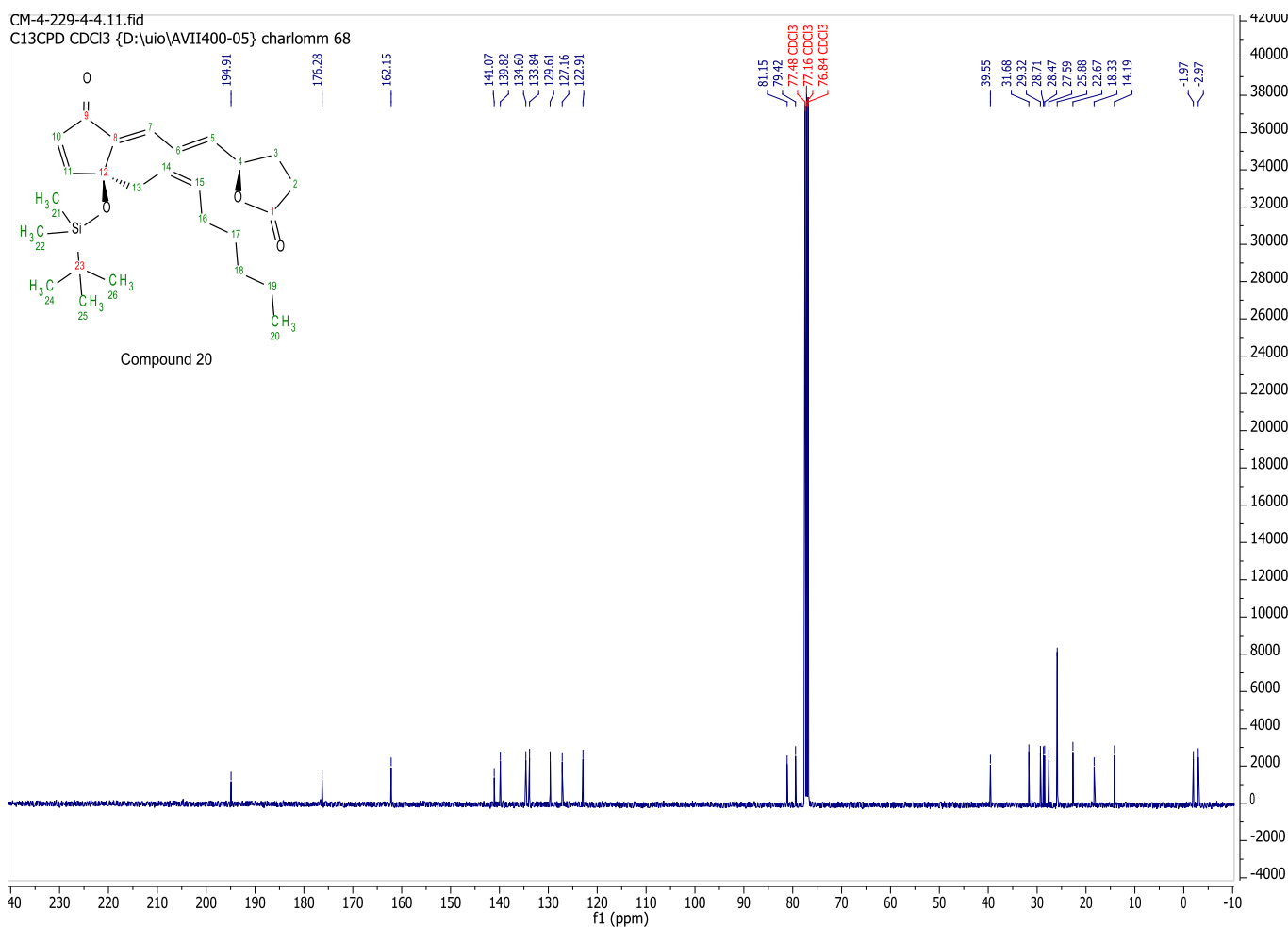
Compound 20



CM-4-229-4-4.11.fid
 C13CPD CDCl₃ {D:\uio\AVII400-05} charlomm 68

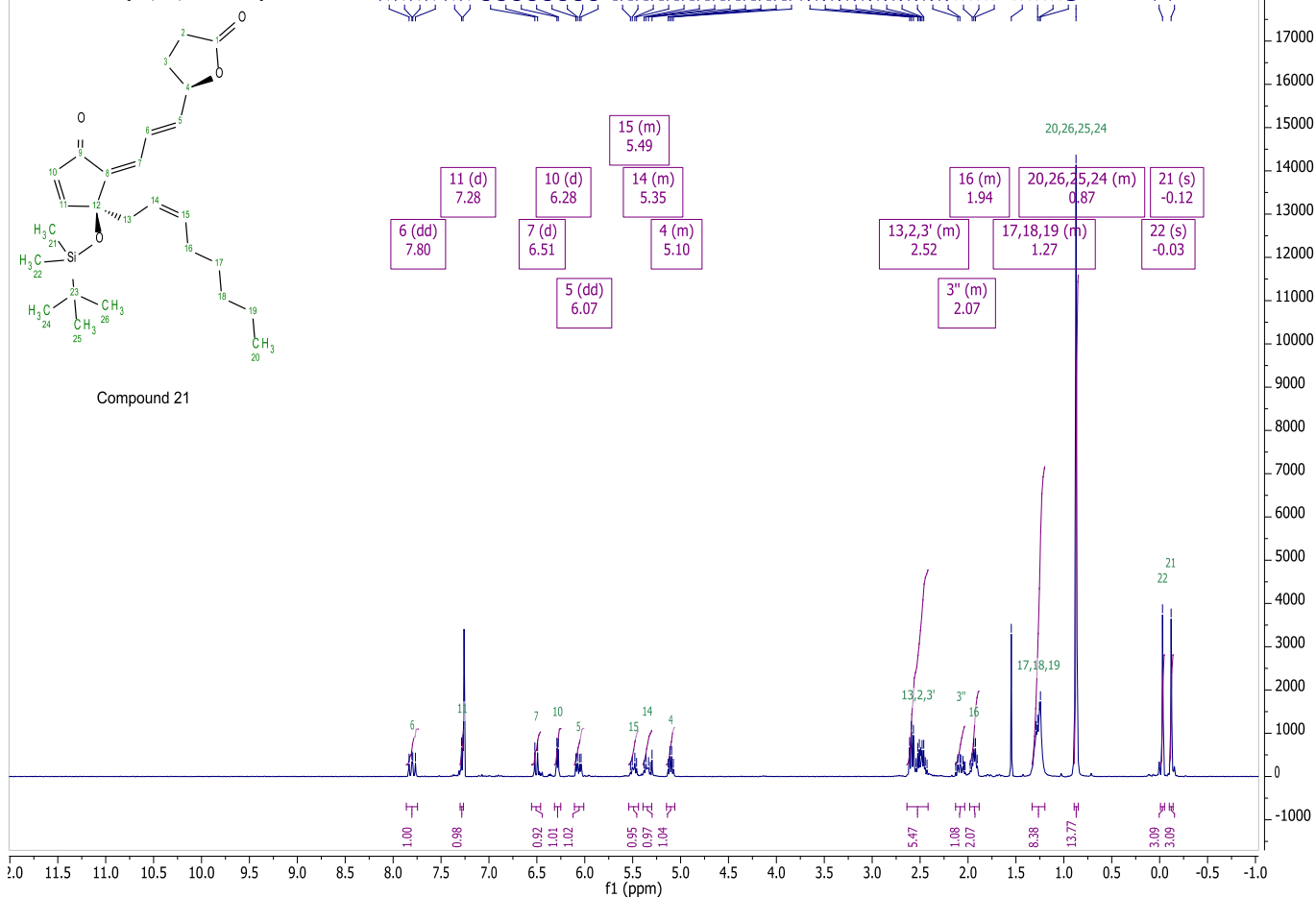


Compound 20



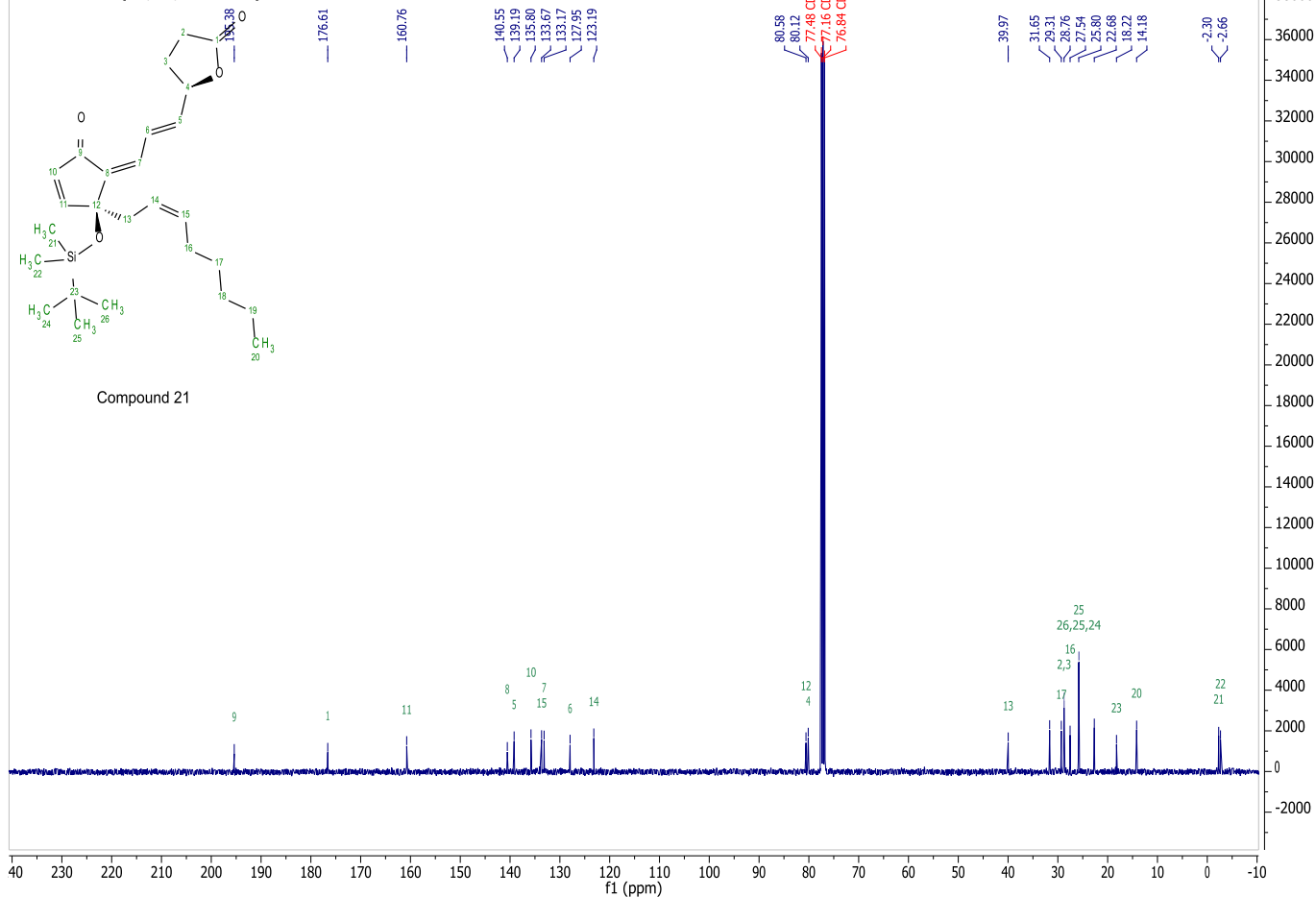
CM-4-274-1.10.fid

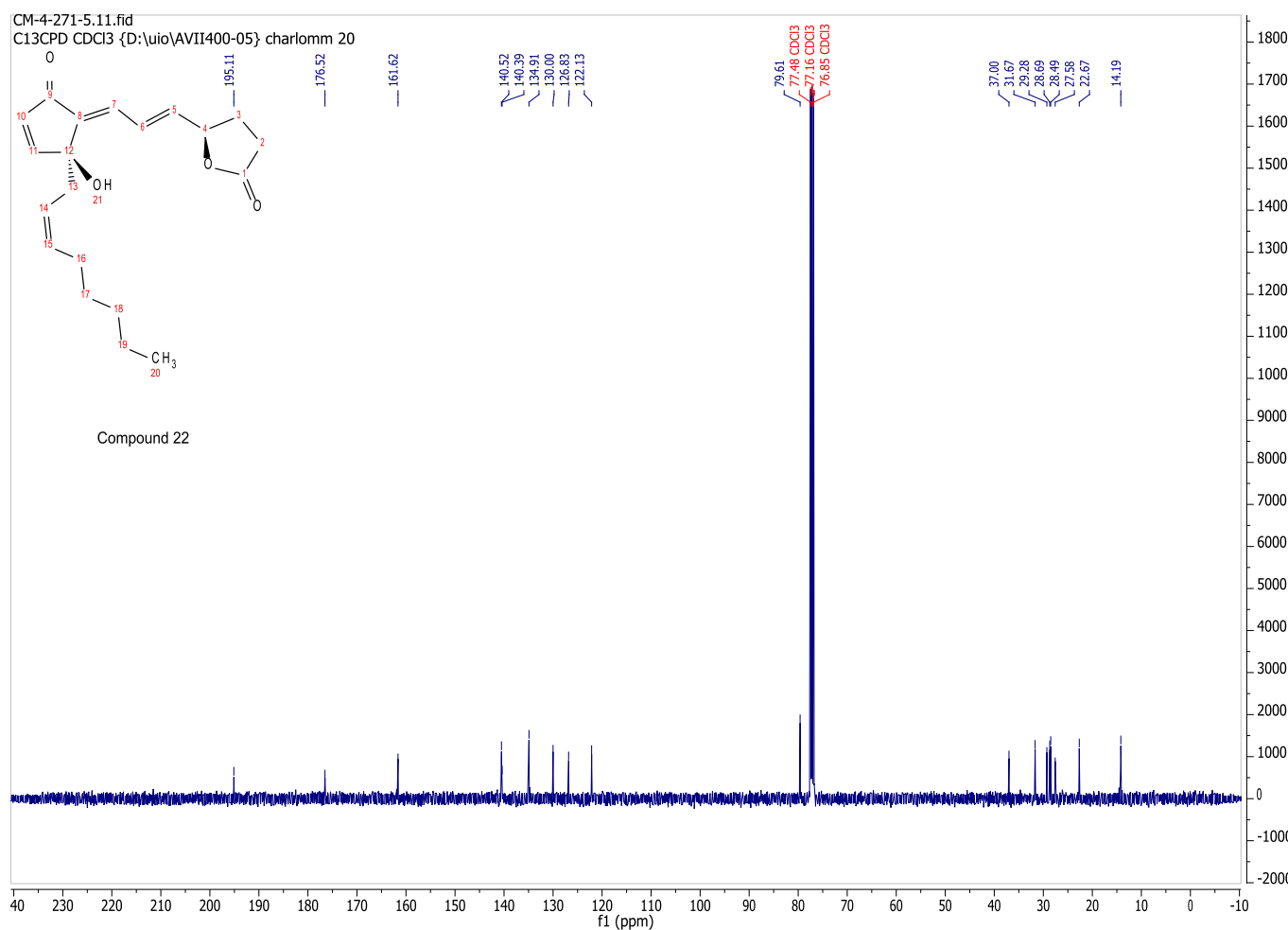
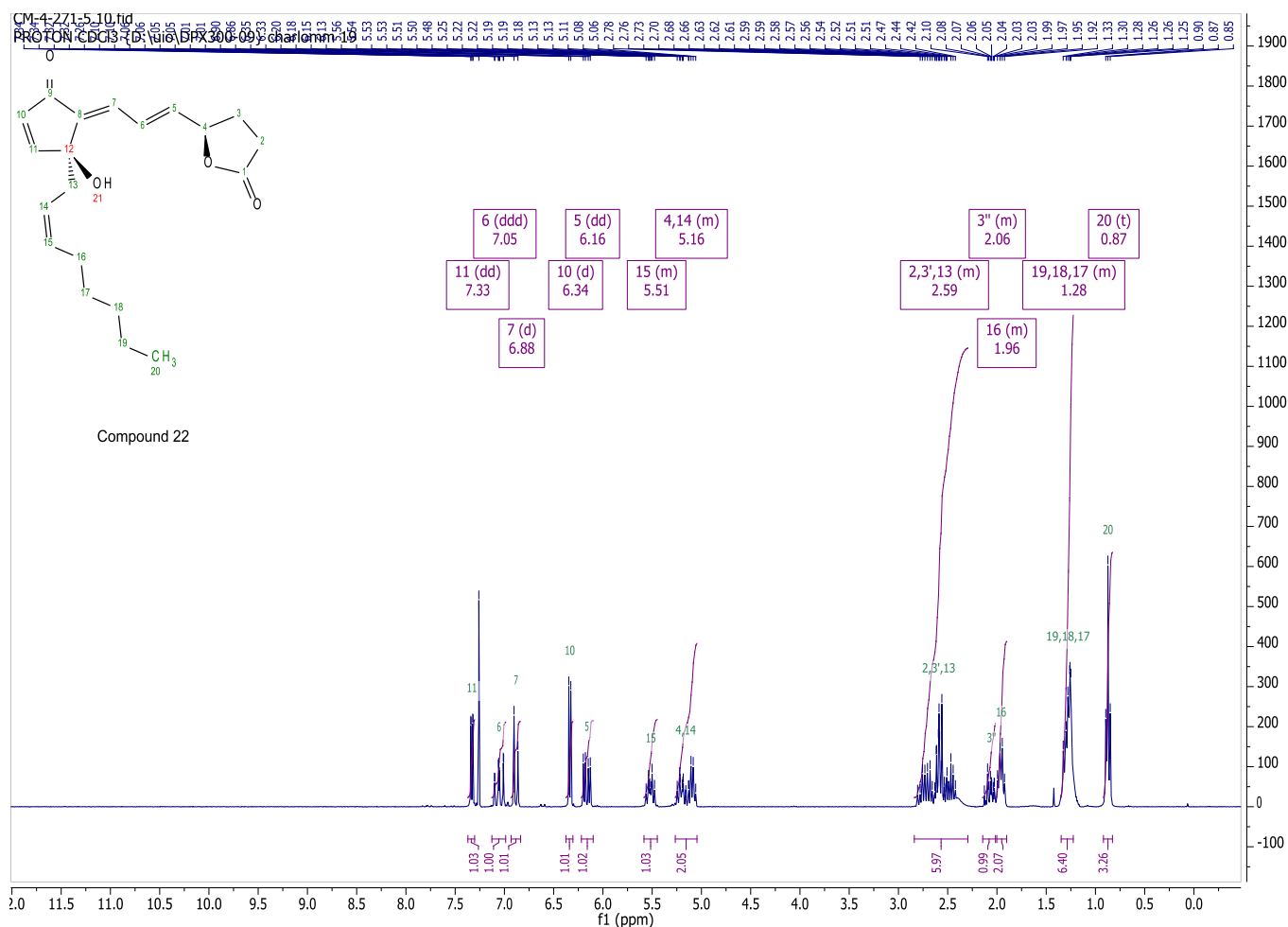
PROTON CDCl₃ {D:\uio\AVII400-05} charlomm 13

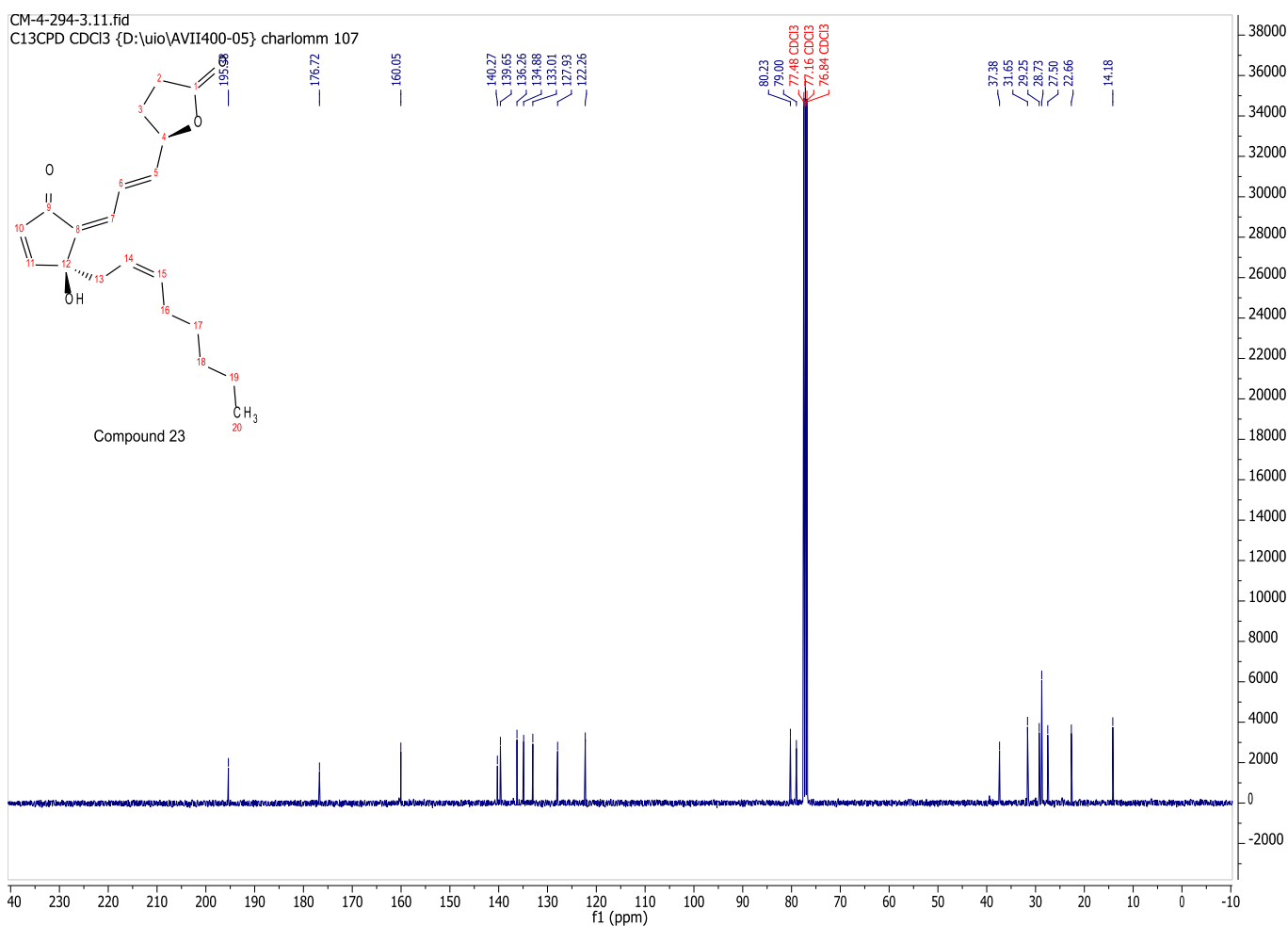
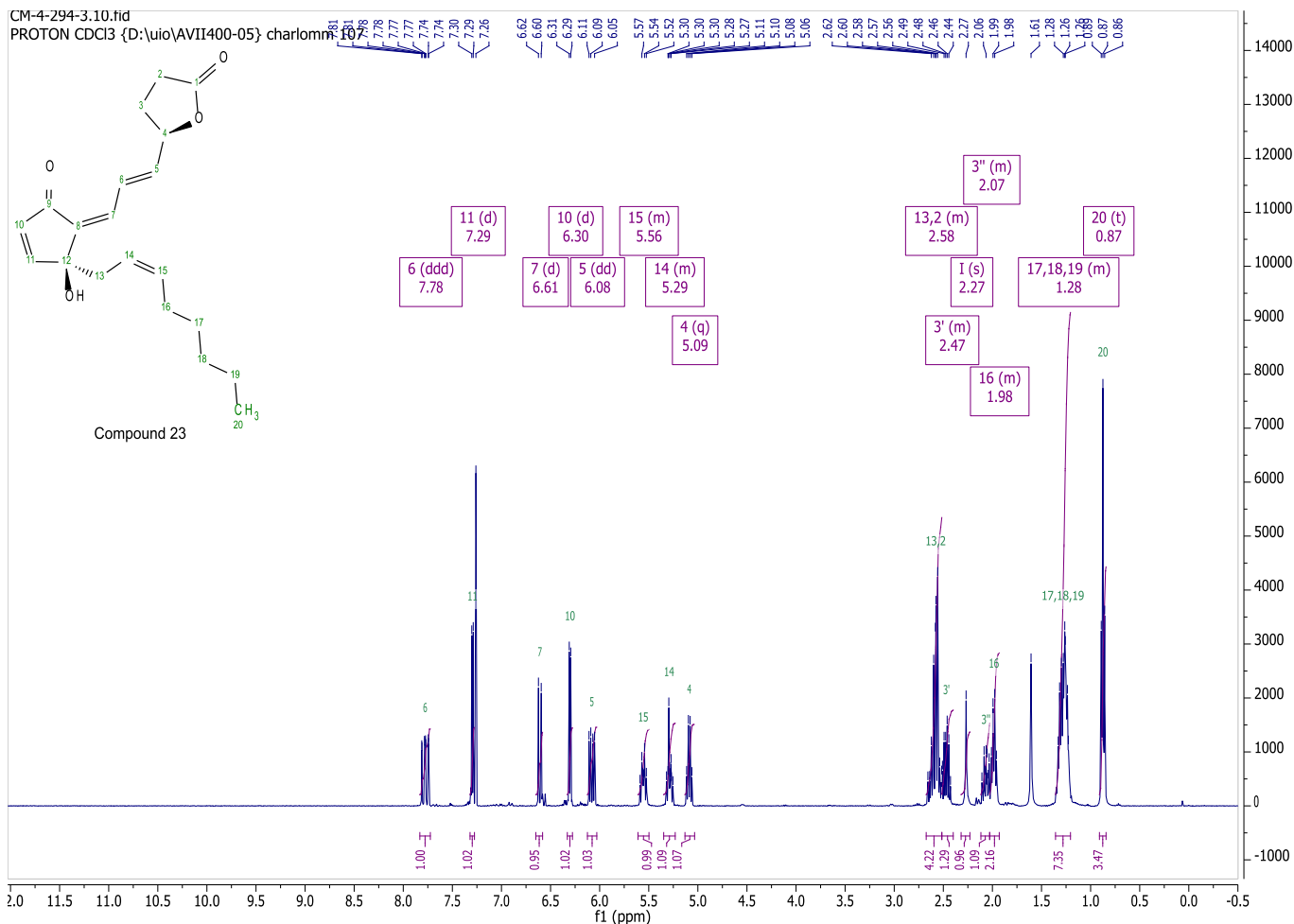


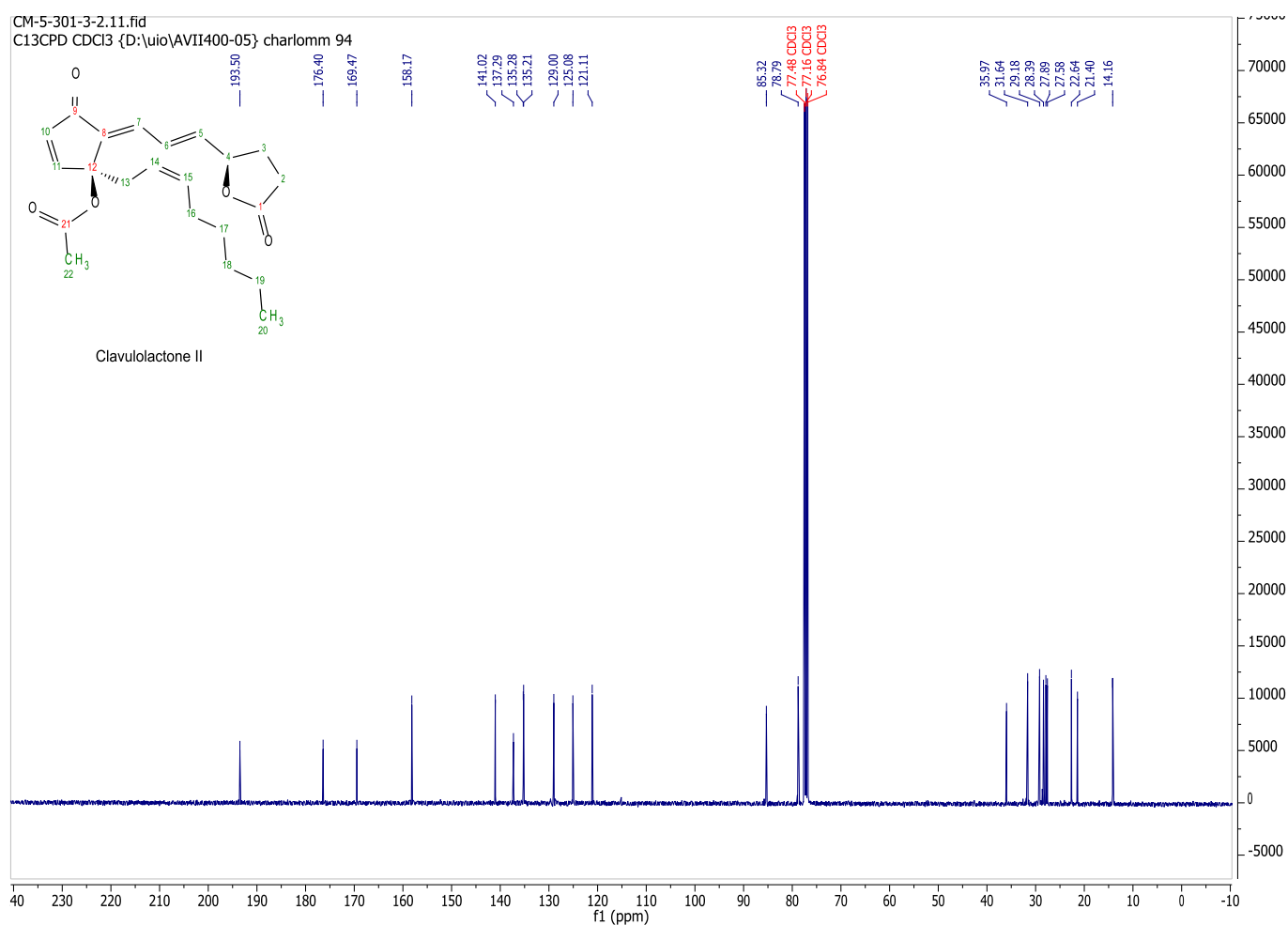
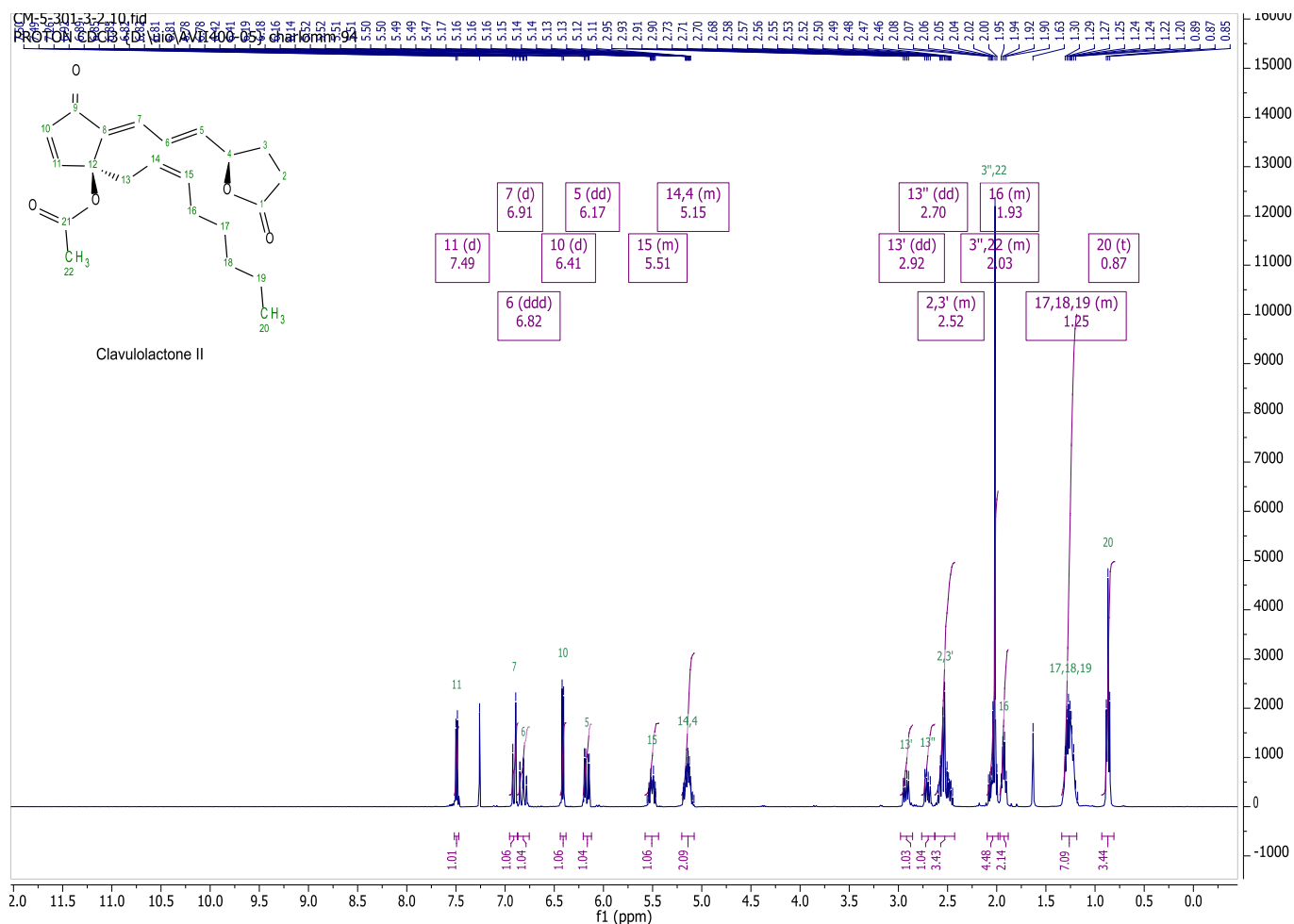
CM-4-261-8-2.11.fid

C13CPD CDCl₃ {D:\uio\AVII400-05} charlomm 41

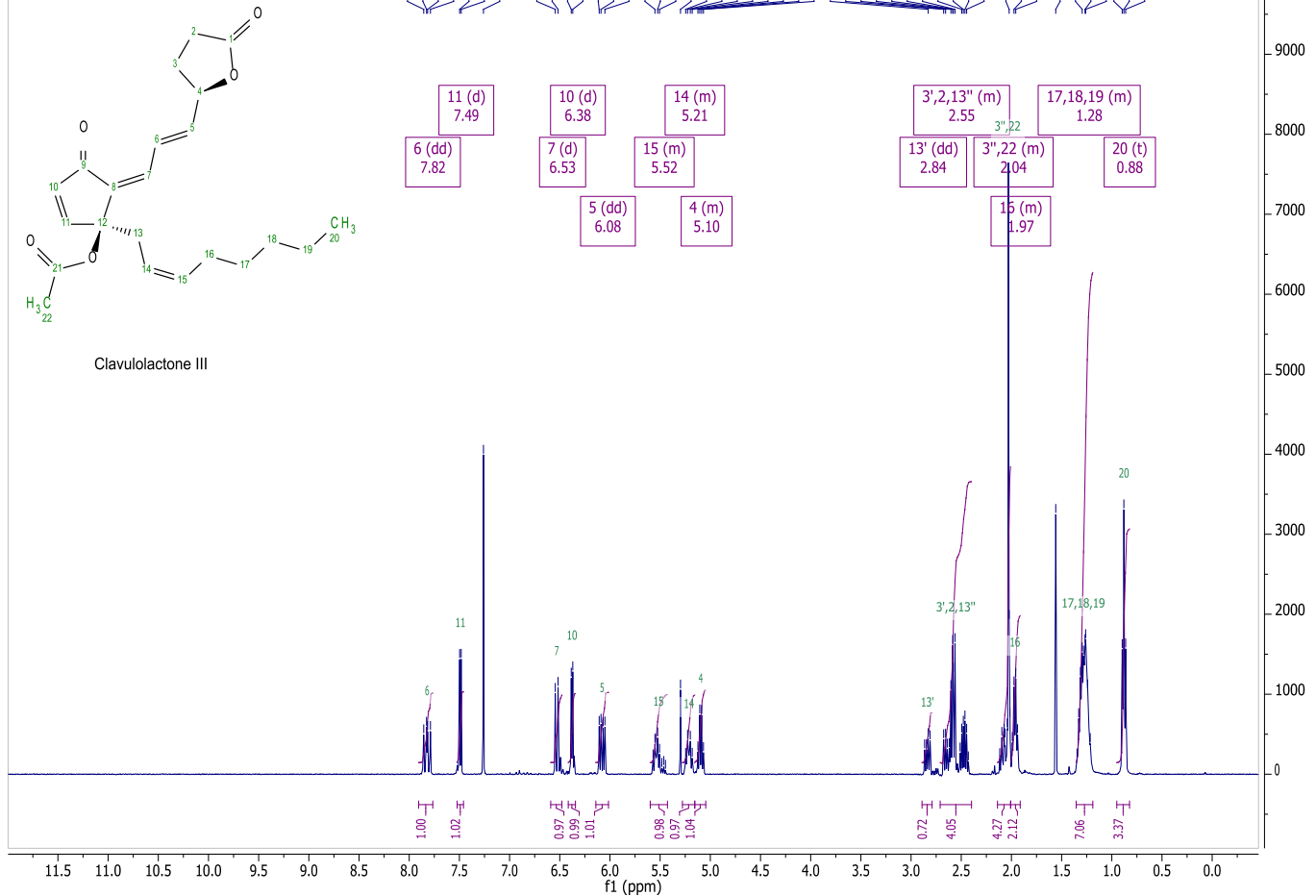








CM-4-264-4.10.fid
 PROTON CDCl3 {D:\uio\AVII400-05} charlomm 9



CM-4-264-4.11.fid
 C13CPD CDCl3 {D:\uio\AVII400-05} charlomm 9

