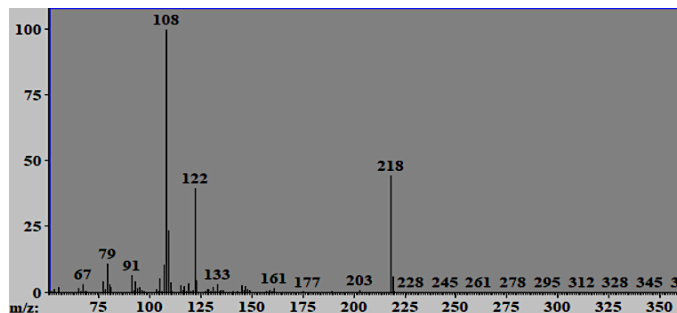


The Leaf Essential Oil of *Gynoxys buxifolia* (Kunth) Cass. (Asteraceae): a Good Source of Furanoeremophilane and Bakkenolide A

Bakkenolide A (72). ¹H NMR [23] (CDCl₃, 500 MHz) δ(ppm): 0.85 (d, 3H, *J*=6.8 Hz), 0.99 (s, 3H), 1.10-1.22 (m, 1H), 1.40-1.68 (m, 6H), 1.95 (d, 1H, *J*=14.2 Hz), 1.98 (dd, 1H, *J*₁=12.9 Hz and *J*₂=7.0 Hz), 1.98 (d, 1H, *J*=14.2 Hz), 2.09 (dd, 1H, *J*₁=13.3 Hz and *J*₂=12.9 Hz), 2.27 (dddd, 1H, *J*₁=13.3 Hz, *J*₂=7.0 Hz, *J*₃=4.9 Hz, and *J*₄=2.3 Hz), 4.74 (ddd, 1H, *J*₁=12.8 Hz, *J*₂=2.3 Hz, and *J*₃=2.1 Hz), 4.80 (ddd, 1H, *J*₁=12.8 Hz, *J*₂=2.3 Hz, and *J*₃=2.1 Hz), 5.03 (t, 1H, *J*=2.1 Hz), 5.11 (t, 1H, *J*=2.3 Hz). ¹³C NMR [23] (CDCl₃, 100 MHz) δ (ppm): 16.4 (CH), 19.2 (CH), 21.0 (CH₂), 23.3 (CH₃), 30.9 (CH₂), 33.9 (CH), 42.4 (CH₂), 44.0 (C), 46.2 (CH), 48.5 (CH₂), 49.9 (C), 70.4 (CH₂), 105.8 (CH₂), 150.4 (C), 182.6 (C).



Mass spectrum of compound 10a. The x-axis represents the mass-to-charge ratio (m/z) from 0 to 361, and the y-axis represents relative intensity from 0 to 100. The base peak is at m/z 109. Other labeled peaks include m/z 67, 79, 91, 124, 133, 163, 189, 205, 234, 244, 260, 277, 293, 310, 327, 343, and 361.

1



Figure S4. ¹H NMR (500 MHz) spectrum of furanoeremophilane (67) in CDCl₃.

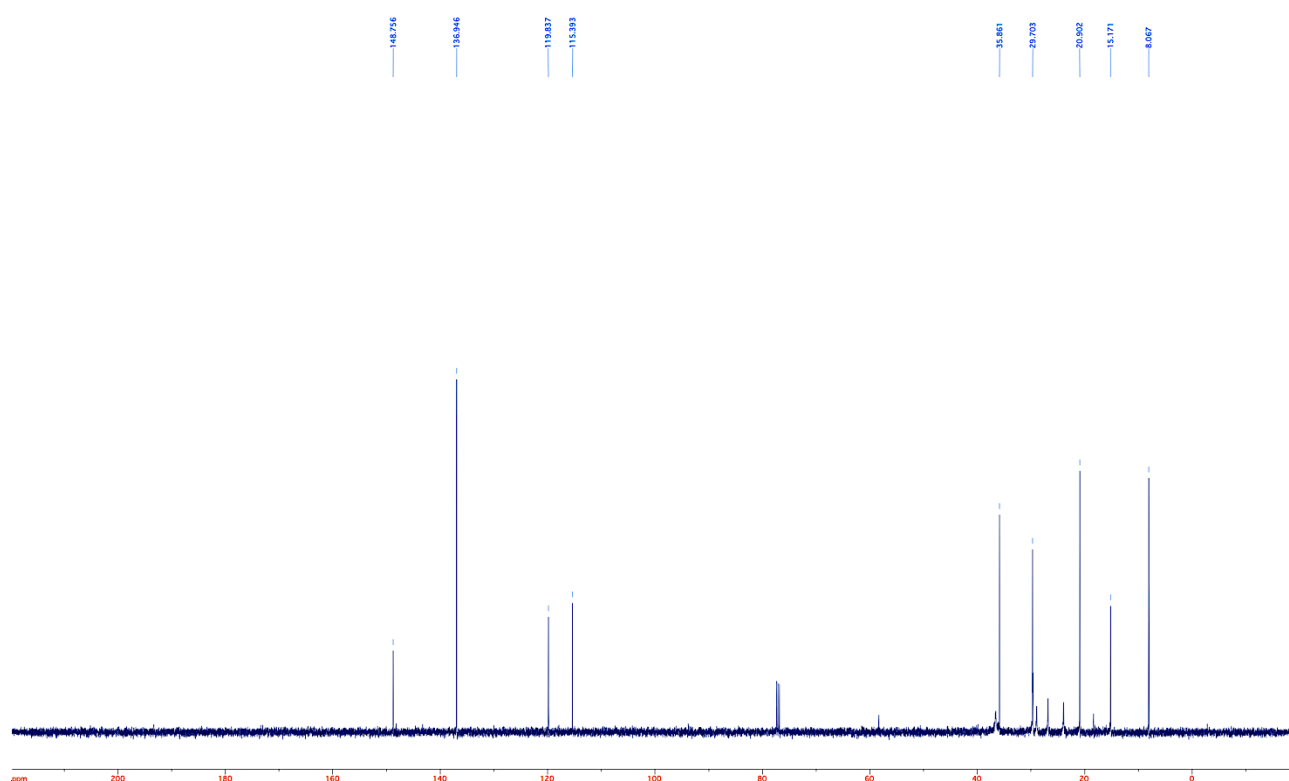


Figure S5. ¹³C NMR (125 MHz) spectrum of furanoeremophilane (67) in CDCl₃.

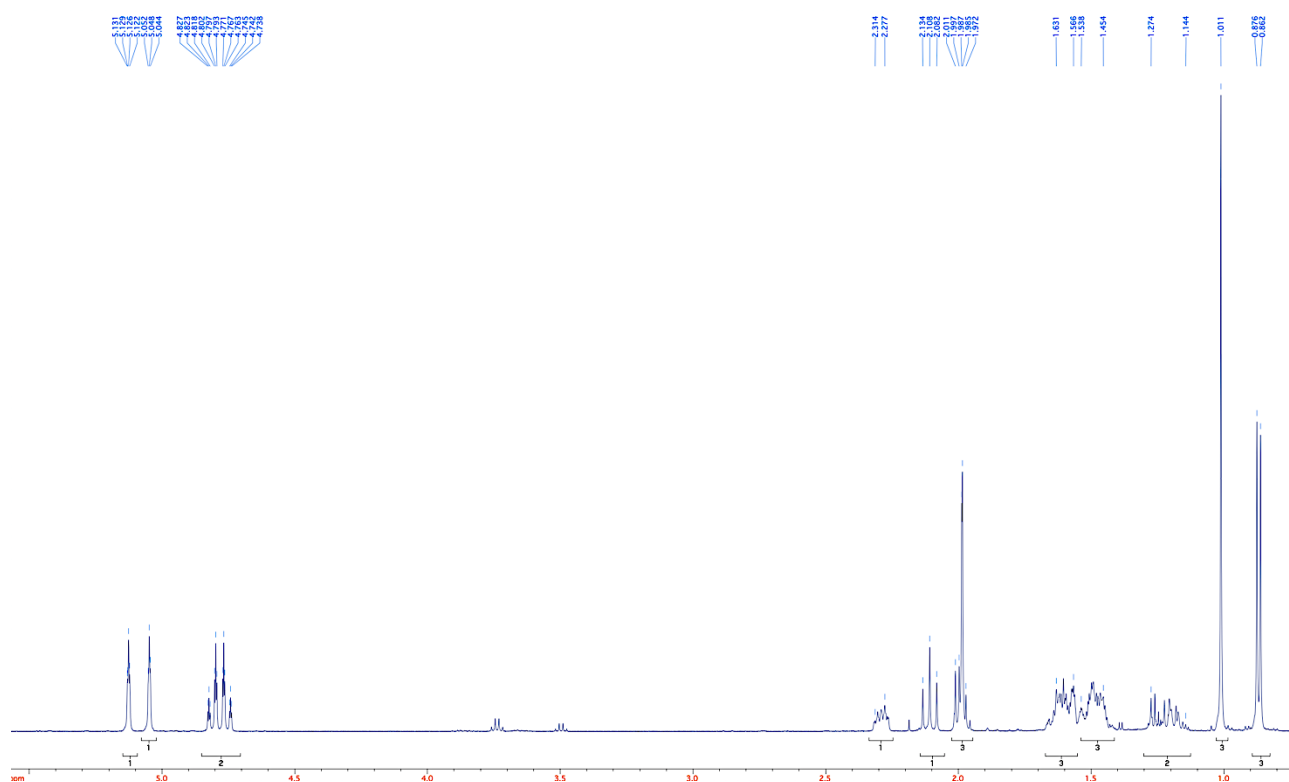


Figure S6. ¹H NMR (500 MHz) spectrum of bakkenolide A (72) in CDCl₃.

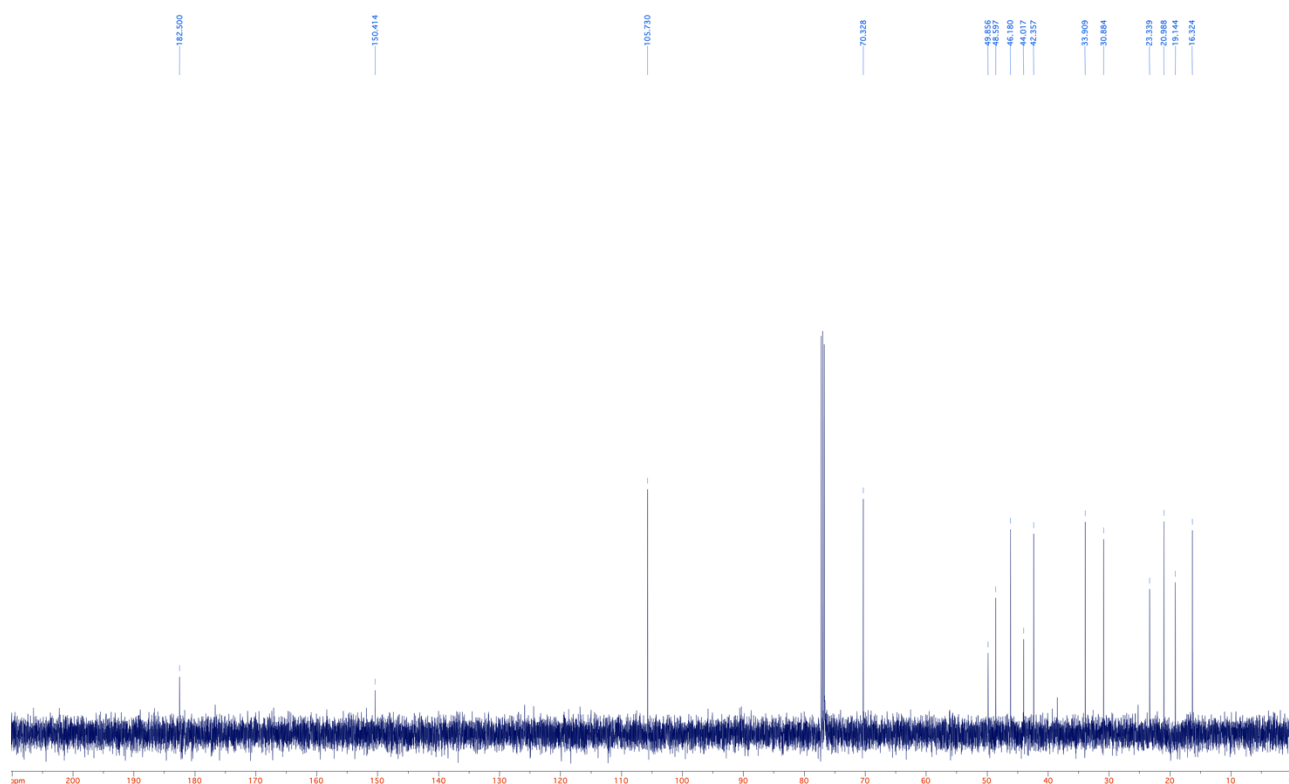


Figure S7. ¹³C NMR (125 MHz) spectrum of bakkenolide A (72) in CDCl₃.