

Comparative Analysis of Chemical Composition of *Zanthoxylum myriacanthum* Branches and Leaves by GC-MS and UPLC-Q-Orbitrap HRMS, and Evaluation of their Antioxidant Activities

Wei Dai ^{1,*}, Liangqian Zhang ², Liping Dai ³, Yuan Tian ², Xinger Ye ³, Sina Wang ¹, Jingtao Li ¹ and Qi Wang ^{2,*}

¹ Experimental Center of Yunfu Campus, Guangdong Pharmaceutical University, Yunfu 527325, China; wangsn@gdpu.edu.cn (S.W.); kingtal@gdpu.edu.cn (J.L.)

² Shihezi University College of Pharmacy/Key Laboratory of Xinjiang Phytomedicine Resource and Utilization, Ministry of Education, Shihezi, 832003, China; 17799930579@163.com (L.Z.); 15700973063@163.com (Y.T.)

³ College of Traditional Chinese Medicine Resources, Guangdong Pharmaceutical University, Yunfu 527325, China; 16680128026@163.com (L.D.); xeye@gdpu.edu.cn (X.Y.)

* Correspondence: dai_gdpu_2018@gdpu.edu.cn (W.D.); qiw16@163.com (Q.W.)

Figure S1. GC-MS chromatograms of branches of *Zanthoxylum myriacanthum*

Figure S2. GC-MS chromatograms of leaves of *Zanthoxylum myriacanthum*

Figure S3. UPLC-Q-Orbitrap HRMS chromatograms of branches *Zanthoxylum myriacanthum* in negative ion mode

Figure S4. UPLC-Q-Orbitrap HRMS chromatograms of branches *Zanthoxylum myriacanthum* in positive ion mode

Figure S5. UPLC-Q-Orbitrap HRMS chromatograms of leaves *Zanthoxylum myriacanthum* in negative ion mode

Figure S6. UPLC-Q-Orbitrap HRMS chromatograms of leaves *Zanthoxylum myriacanthum* in positive ion mode

Figure S7. *Zanthoxylum myriacanthum* leaves and branches identified identical volatile structures

Figure S8. *Zanthoxylum myriacanthum* leaves and branches identified identical non-volatile structures

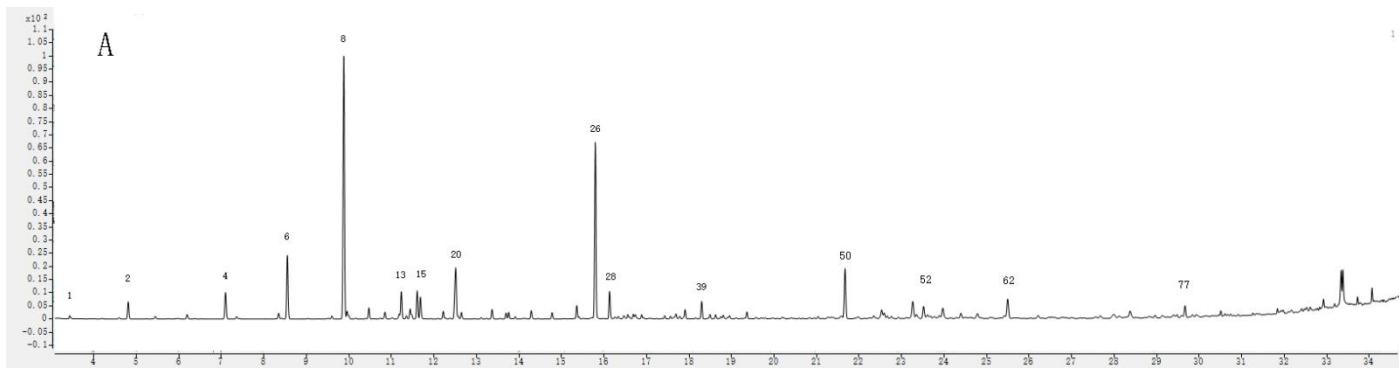


Figure S1. GC-MS chromatograms of branches of *Zanthoxylum myriacanthum*

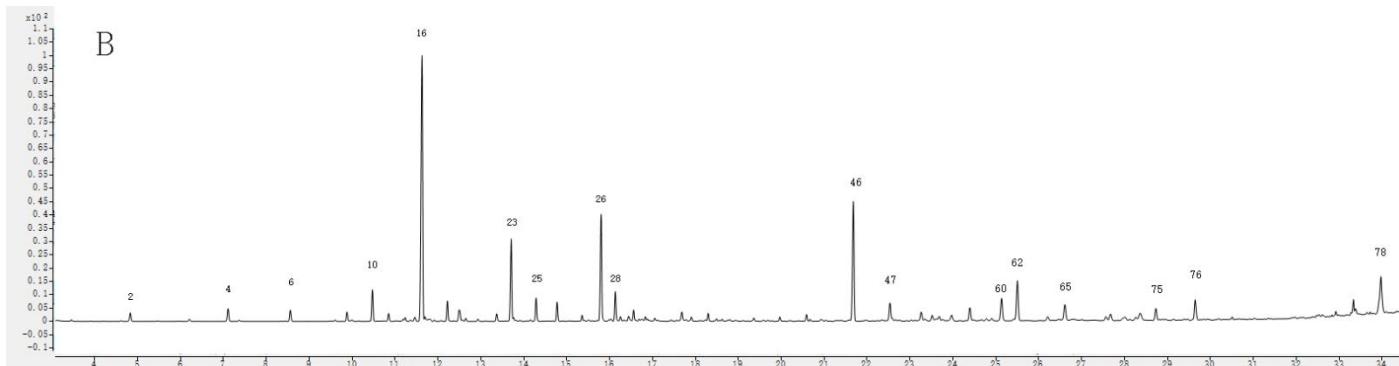


Figure S2. GC-MS chromatograms of leaves of *Zanthoxylum myriacanthum*

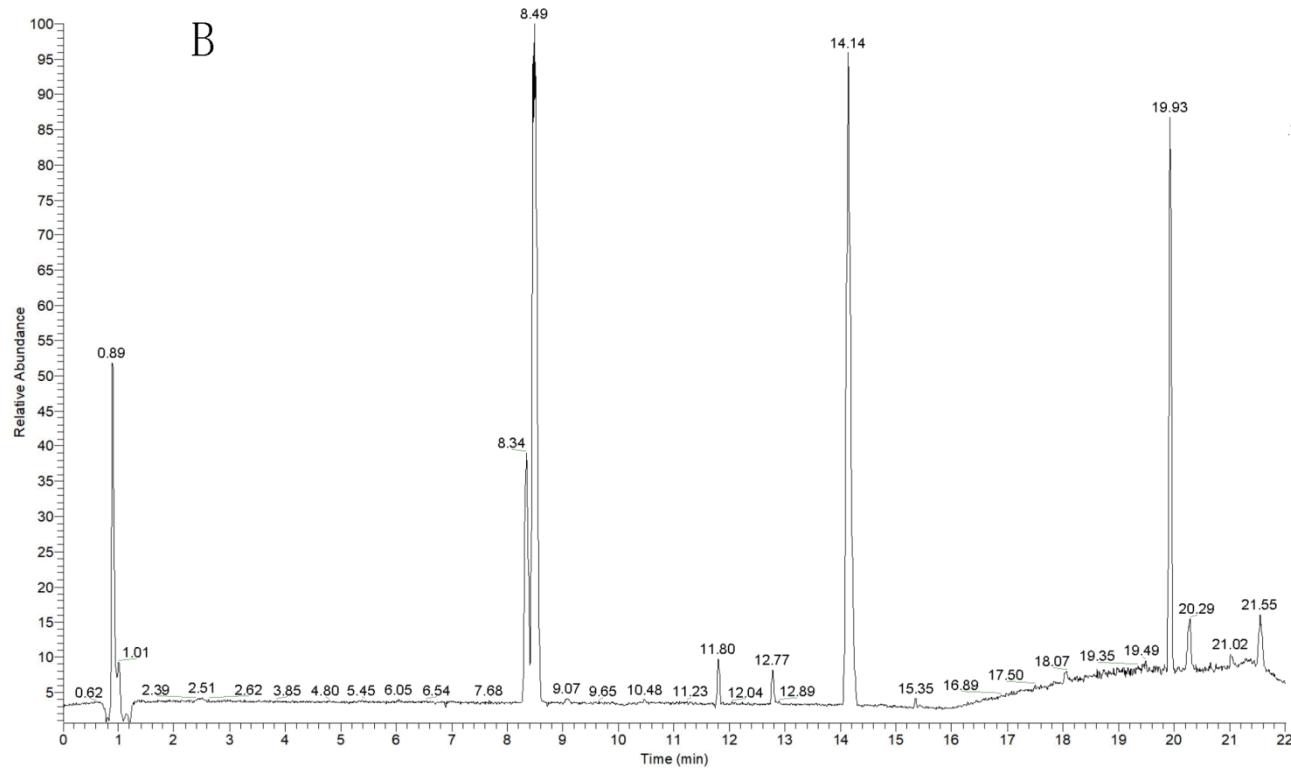


Figure S3. UPLC-Q-Orbitrap HRMS chromatograms of branches *Zanthoxylum myriacanthum* in negative ion mode

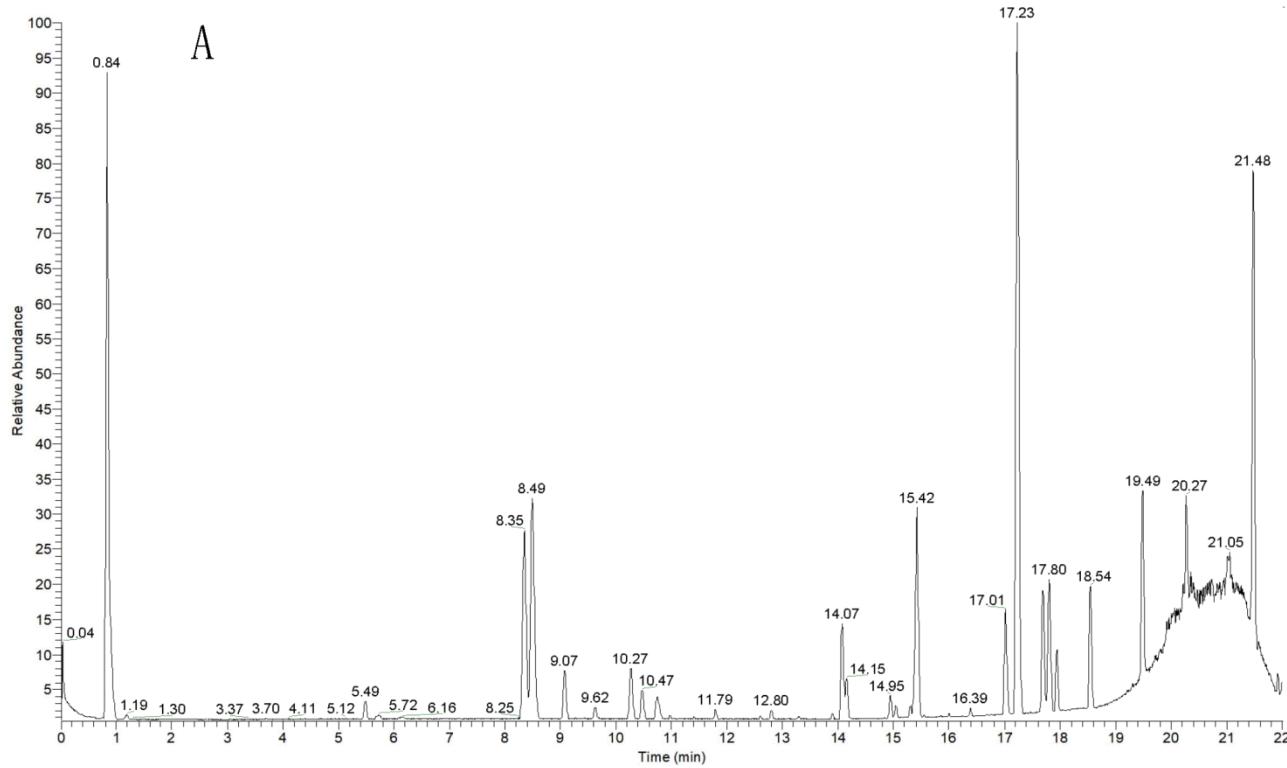


Figure S4. UPLC-Q-Orbitrap HRMS chromatograms of branches *Zanthoxylum myriacanthum* in positive ion mode

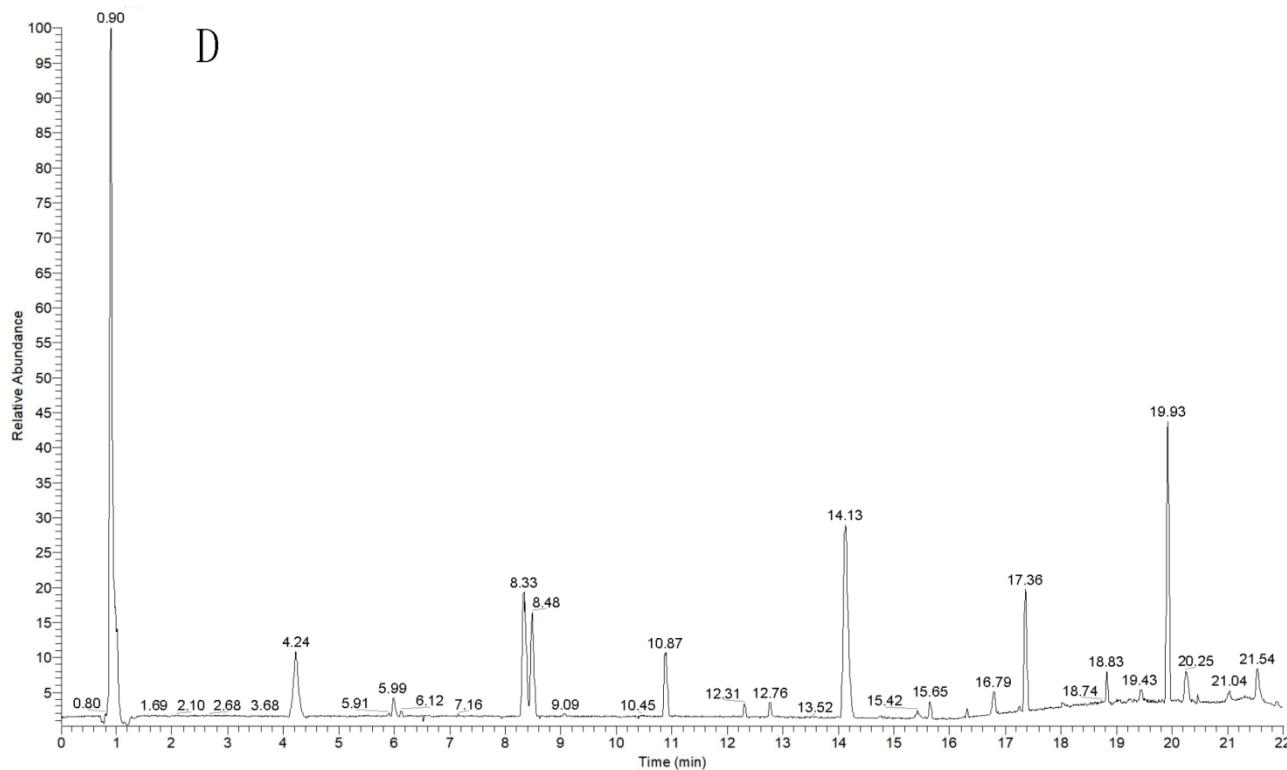


Figure S5. UPLC-Q-Orbitrap HRMS chromatograms of leaves *Zanthoxylum myriacanthum* in negative ion mode

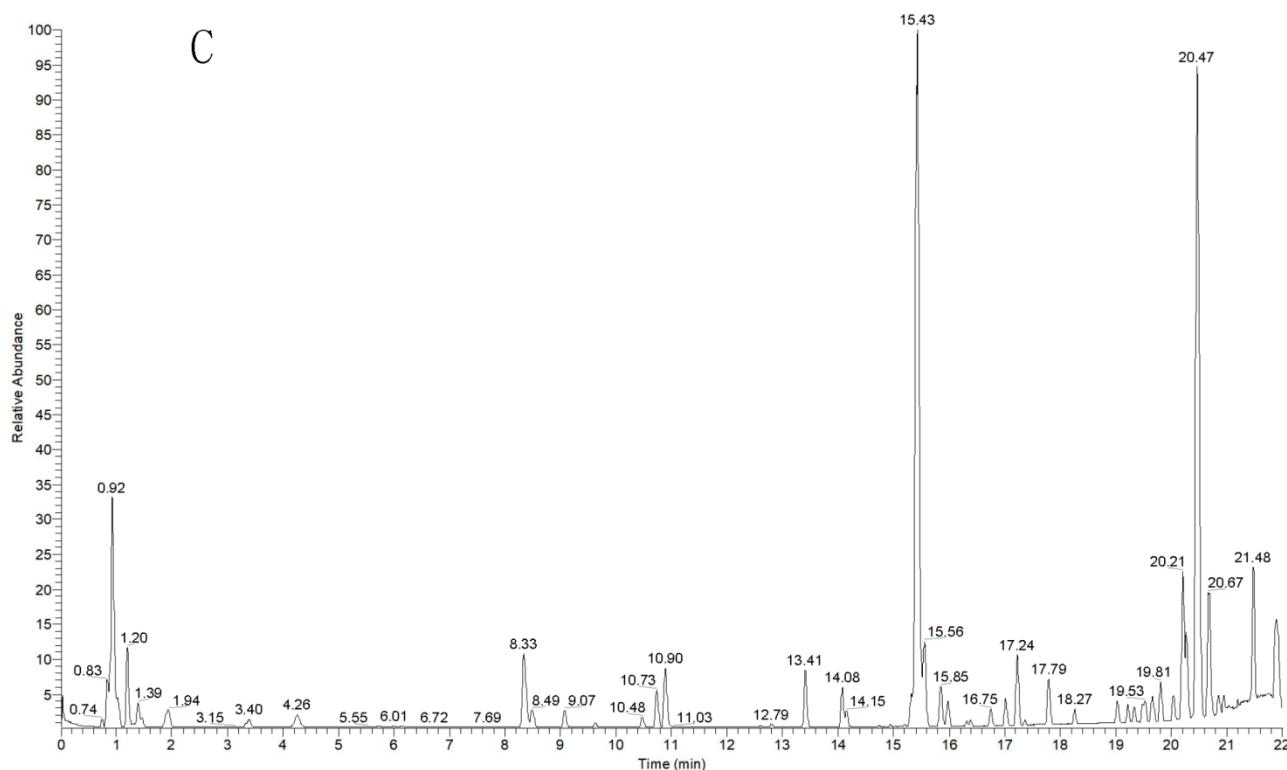


Figure S6. UPLC-Q-Orbitrap HRMS chromatograms of leaves *Zanthoxylum myriacanthum* in positive ion mode

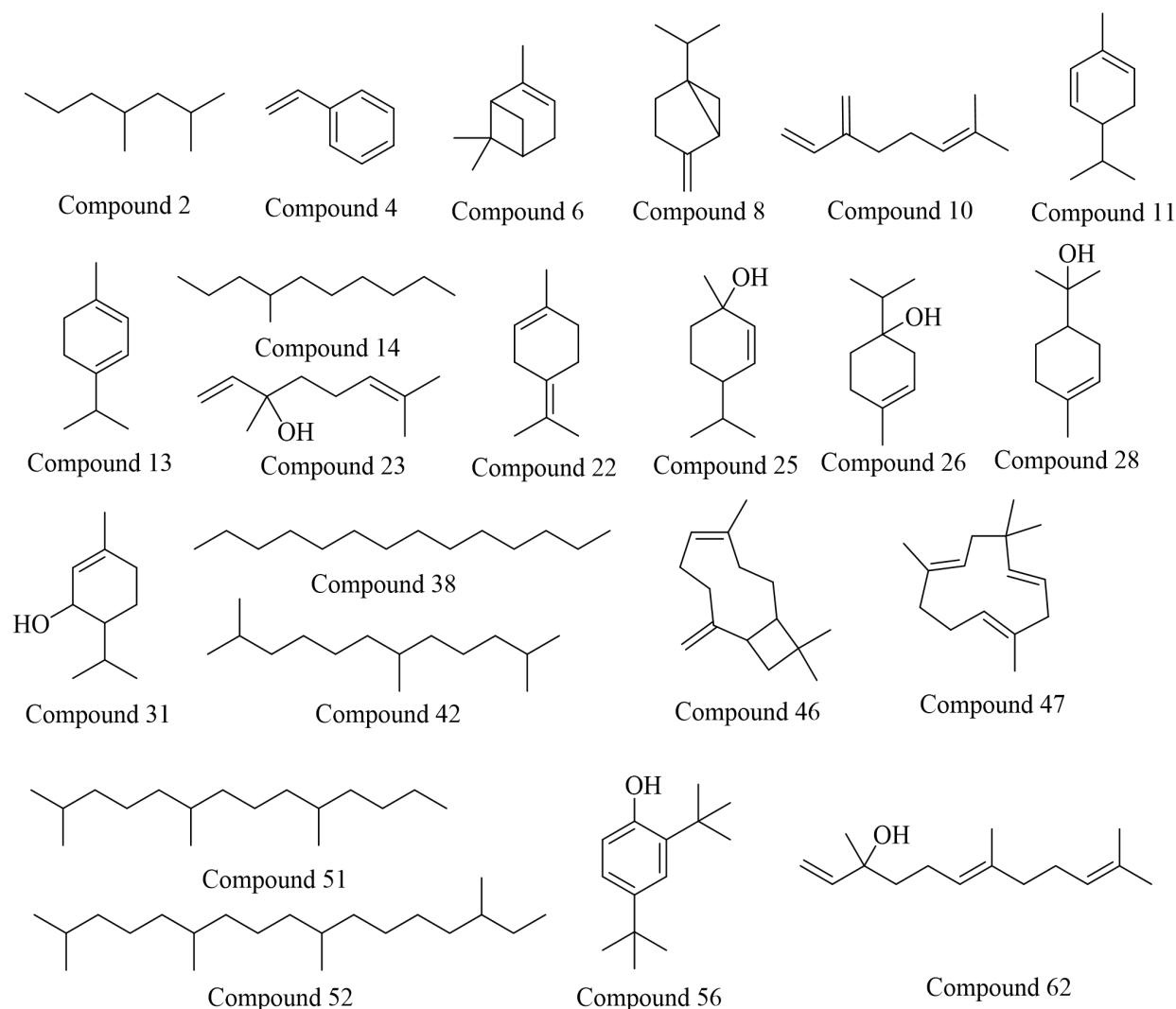
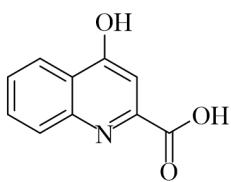
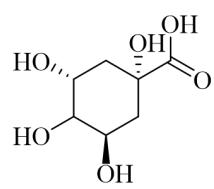


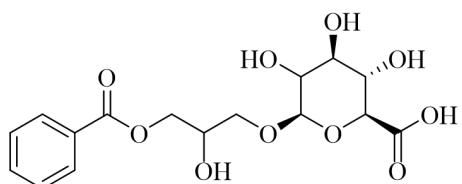
Figure S7. *Zanthoxylum myriacanthum* leaves and branches identified identical volatile structures



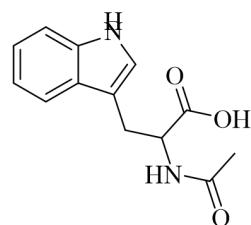
Compound 5



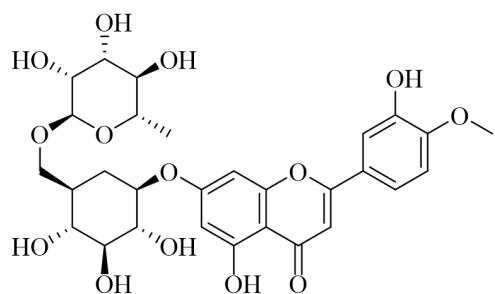
Compound 7



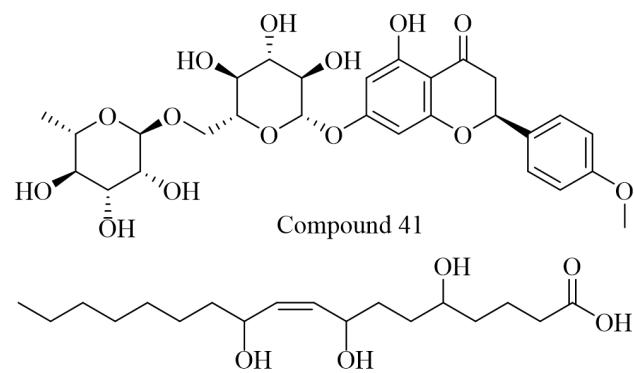
Compound 16



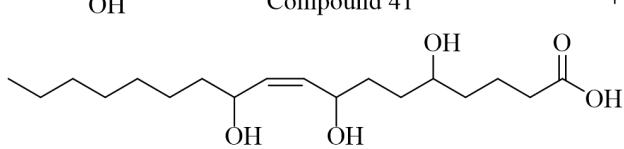
Compound 23



Compound 32



Compound 41



Compound 45

Figure S8. *Zanthoxylum myriacanthum* leaves and branches identified identical non-volatile structures