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Supplementary Materials: Phytochemicals of Apple Pomace as Prospect Bio-Fungicide Agents against Mycotoxigenic Fungal Species—In Vitro Experiments

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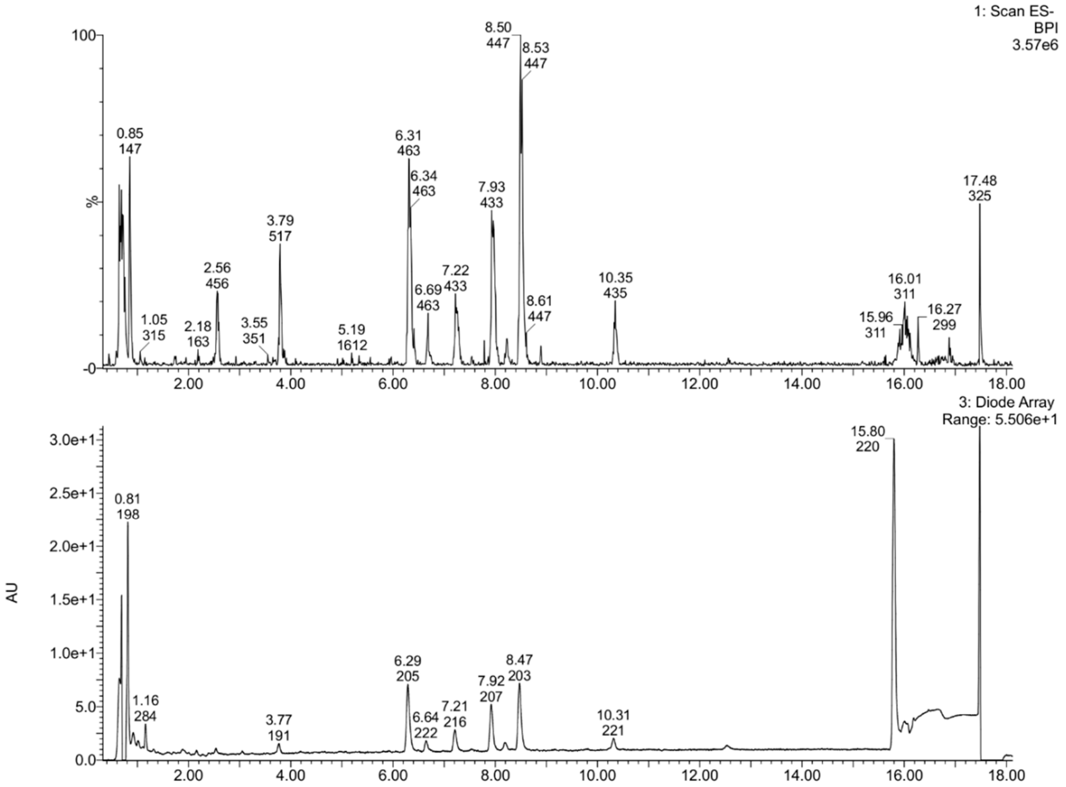


Figure S1. LC-DAD and MS/ES- chromatograms of crude extract from apple pomace.

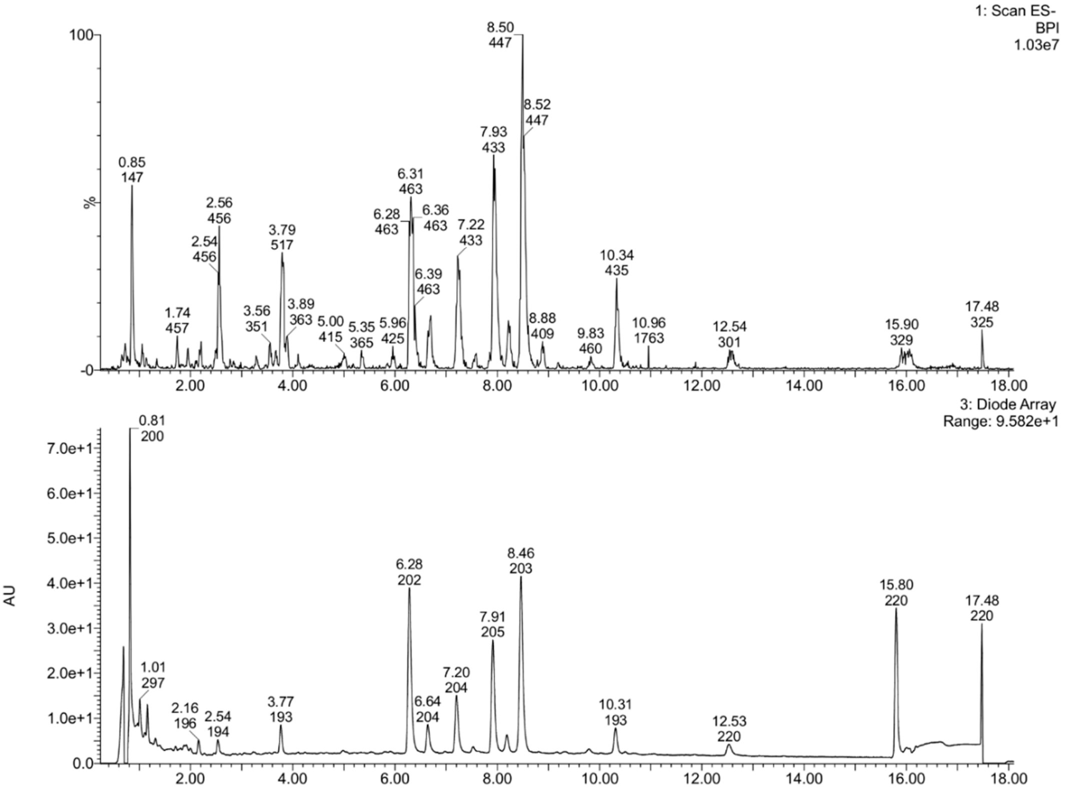


Figure S2. LC-DAD and MS/ES- chromatograms of purified extract from apple pomace.

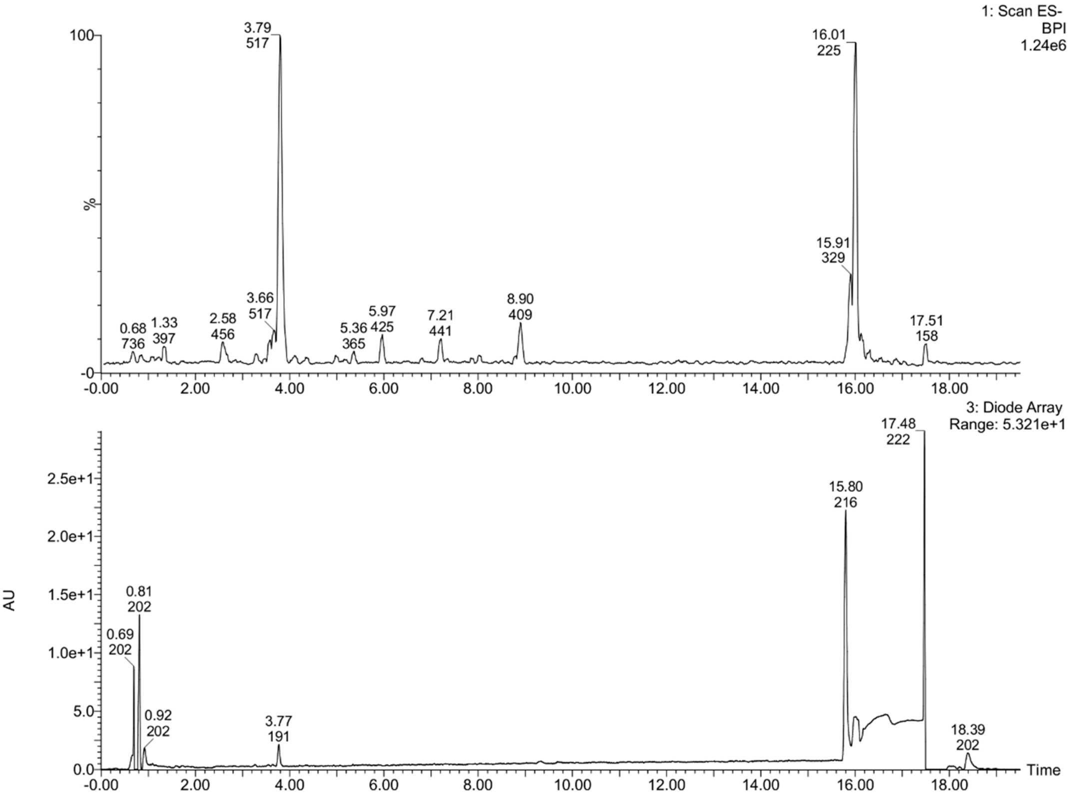


Figure S3. LC-DAD and MS/ES- chromatograms of fraction 1 from apple pomace.

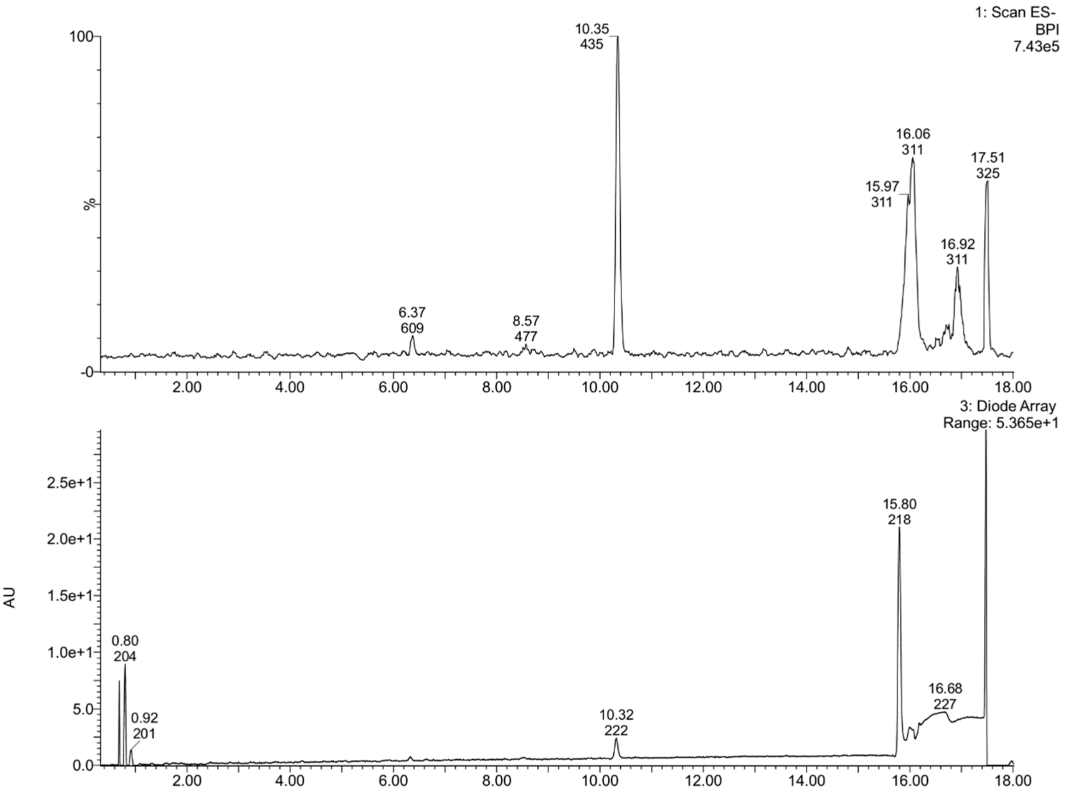


Figure S4. LC-DAD and MS/ES- chromatograms of fraction 4 from apple pomace.

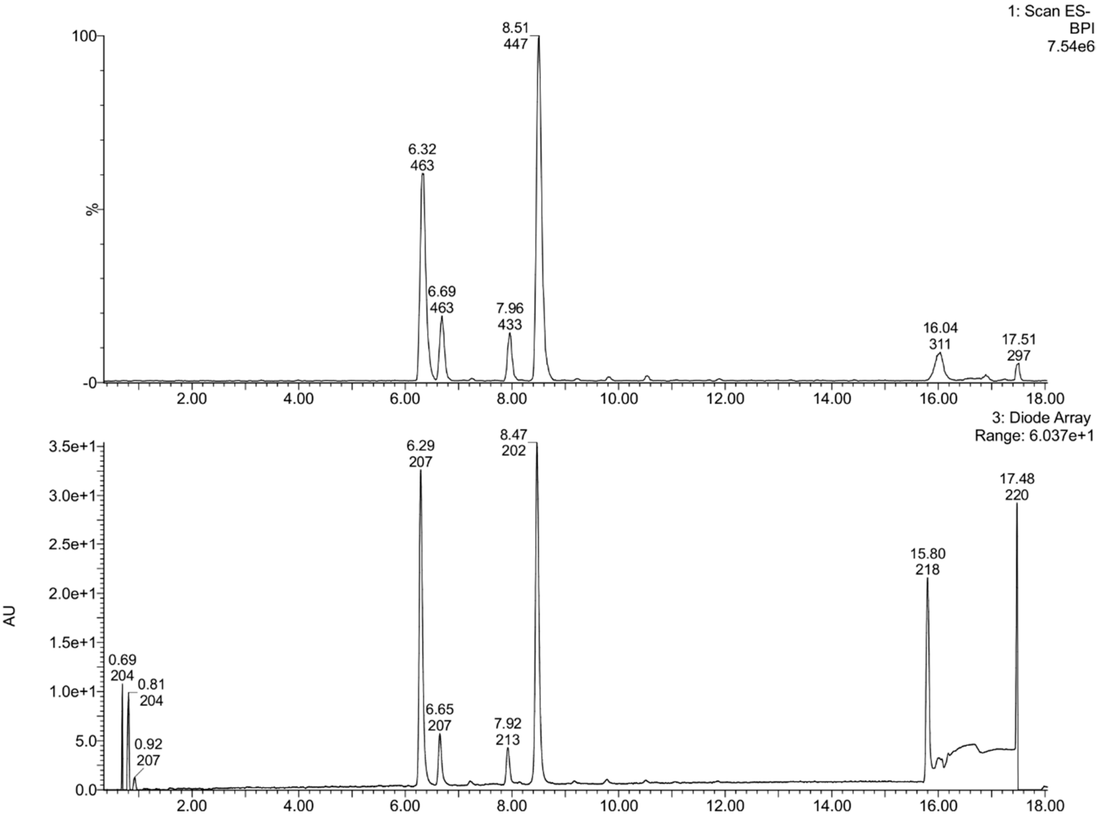


Figure S5. LC-DAD and MS/ES- chromatograms of fraction 5 from apple pomace.

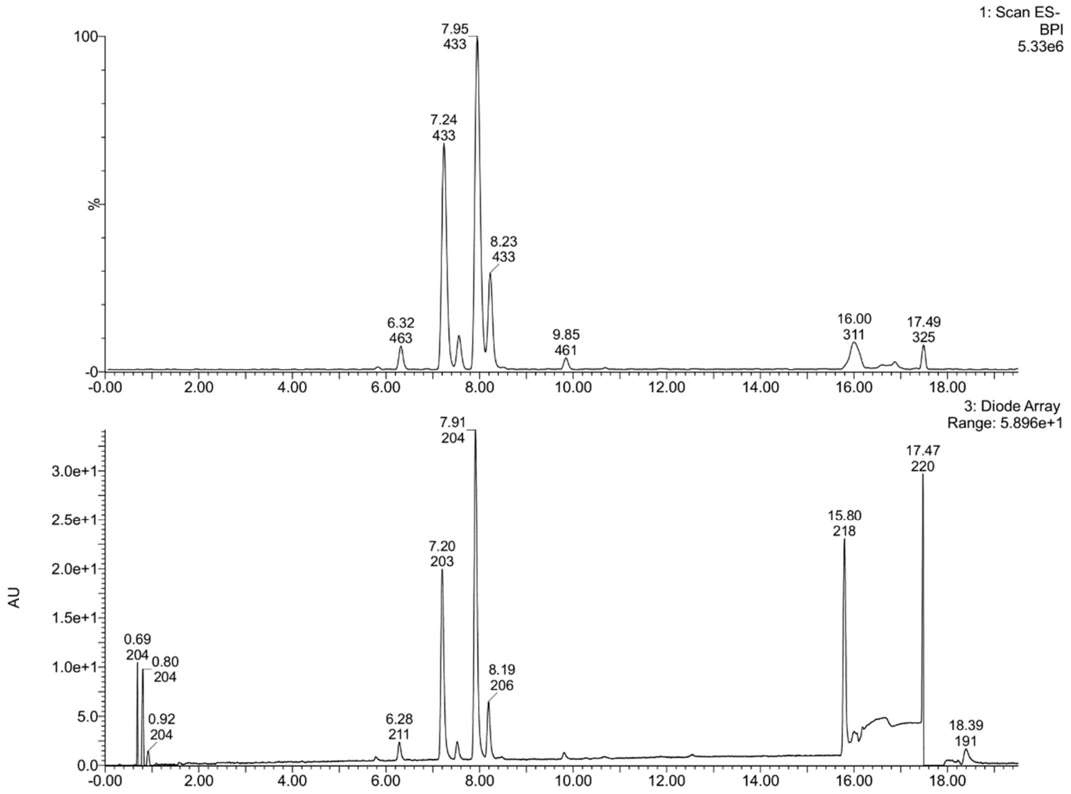
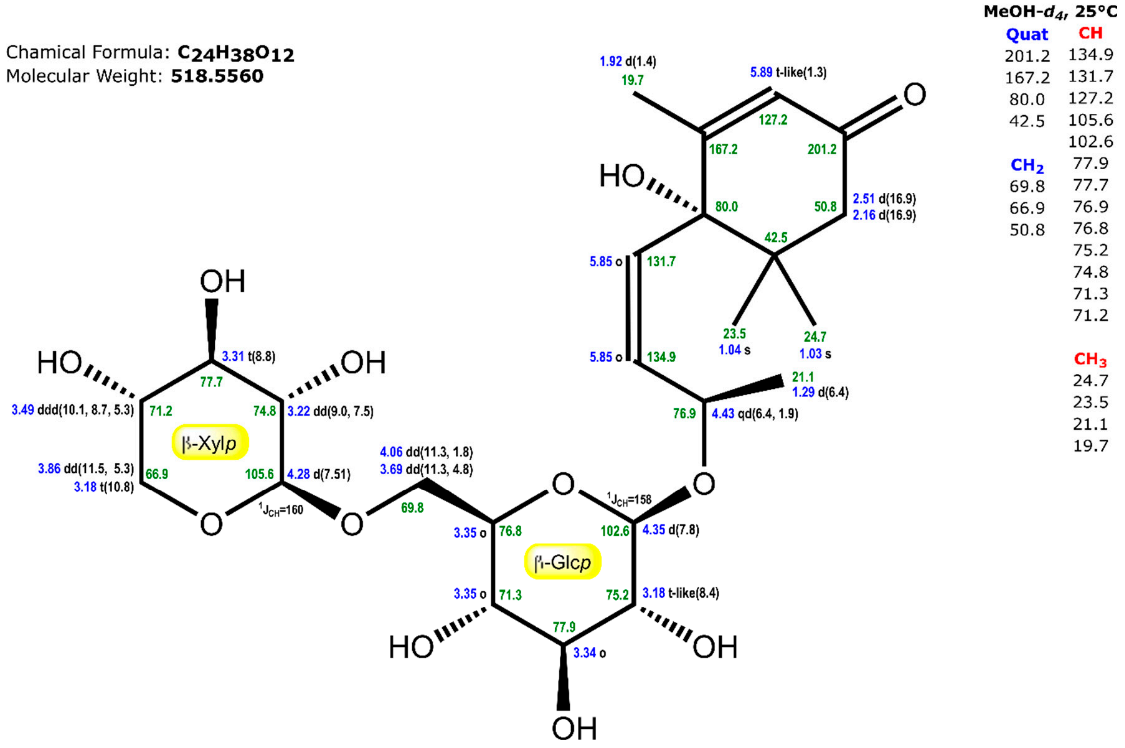


Figure S6. LC-DAD and MS/ES- chromatograms of fraction 6 from apple pomace.



Chamical Formula: $C_{24}H_{38}O_{12}$
Molecular Weight: **518.5560**

MeOH-*d*$_4$, 25°C

Quat	CH	CH_2	CH_3
201.2	134.9	69.8	24.7
167.2	131.7	66.9	23.5
80.0	127.2	50.8	21.1
42.5	105.6		19.7
	102.6		
	77.9		
	77.7		
	76.9		
	76.8		
	75.2		
	74.8		
	71.3		
	71.2		

Figure S7. 1H and 13C NMR data of pinnatifidanoside D.

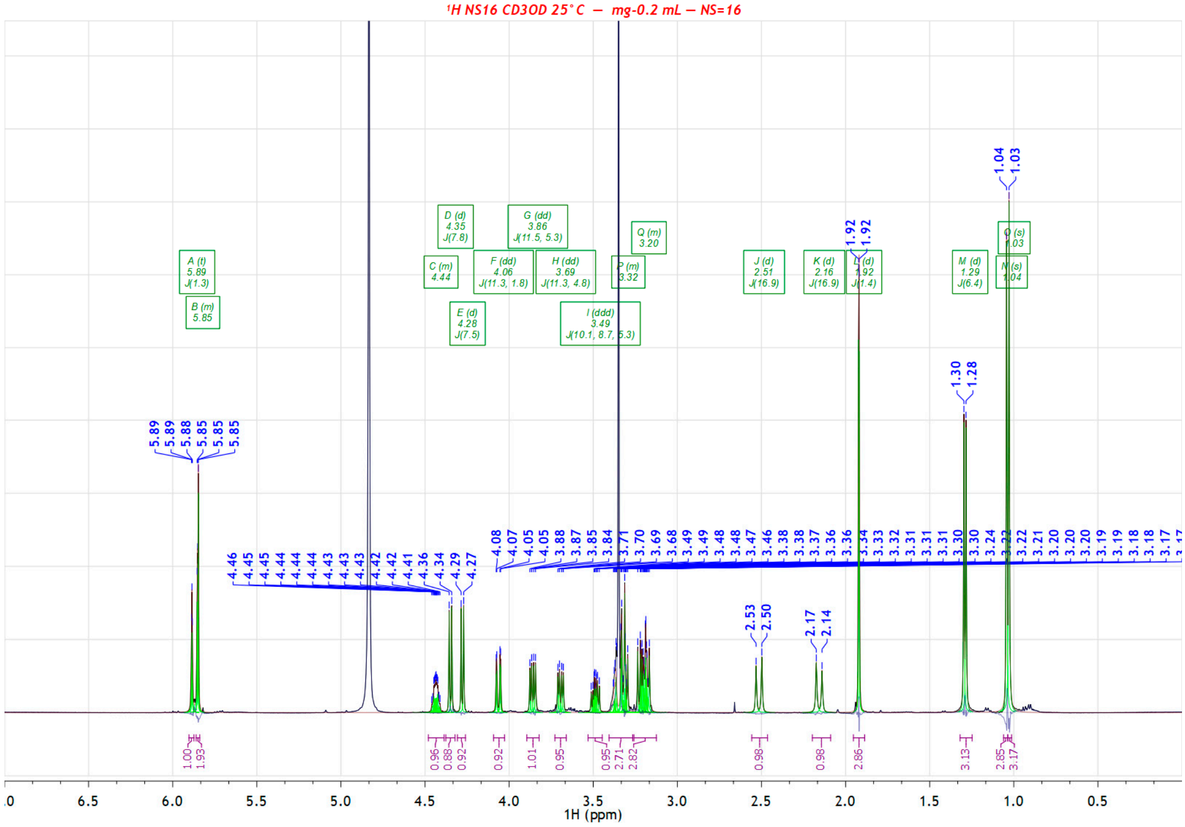


Figure S8. ¹H NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d_4, 25 °C.

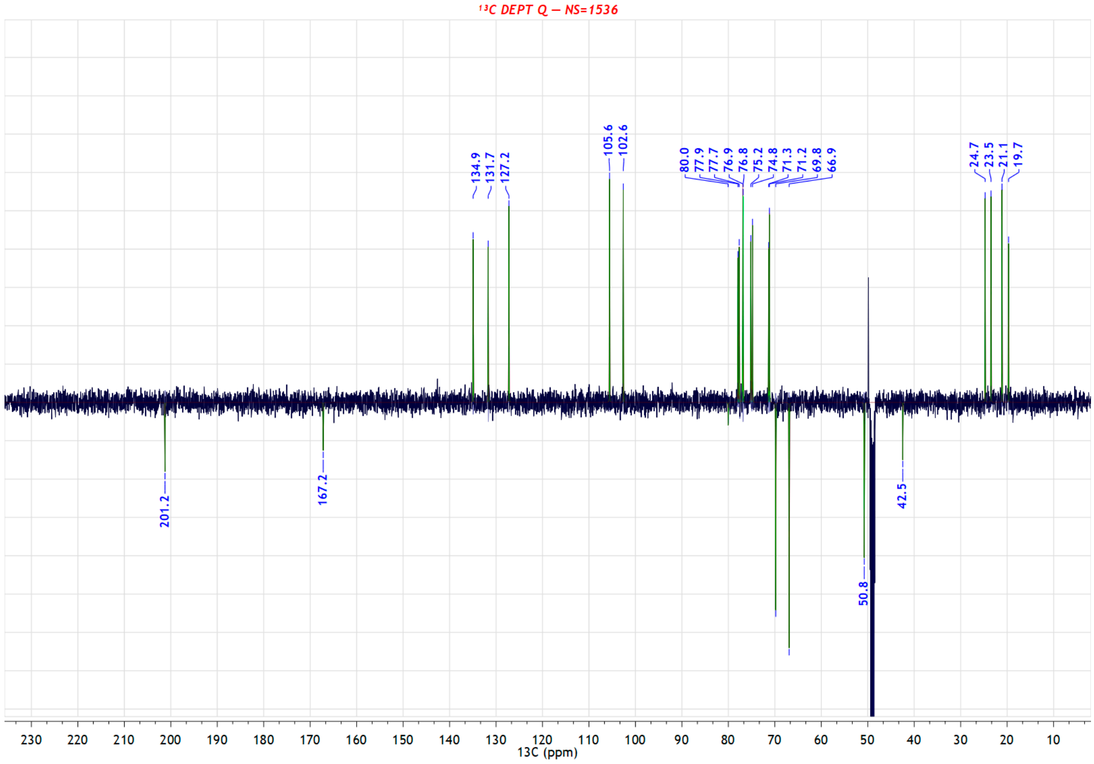


Figure S9. ¹³C NMR (125 MHz) spectrum of pinnatifidanoside D, in MeOH-d_4, 25 °C.

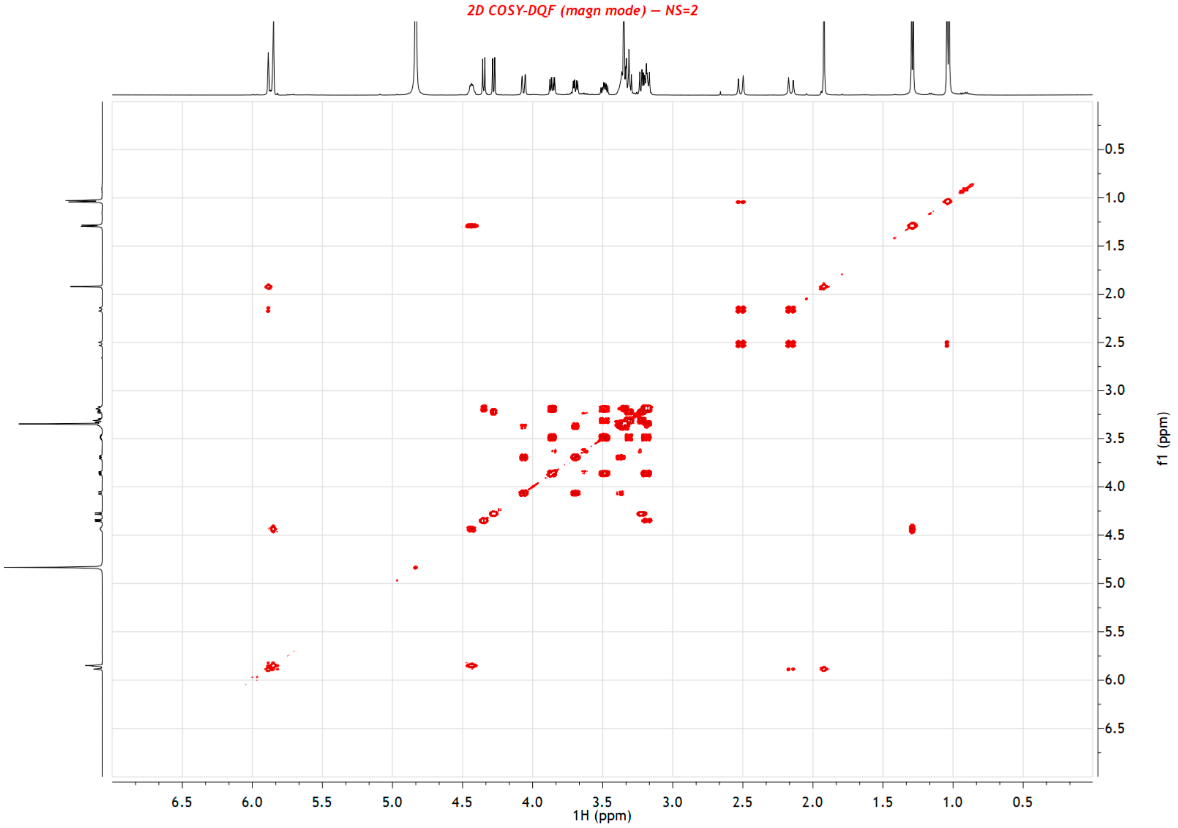


Figure S10. ^{1}H-^{1}H 2D COSY NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

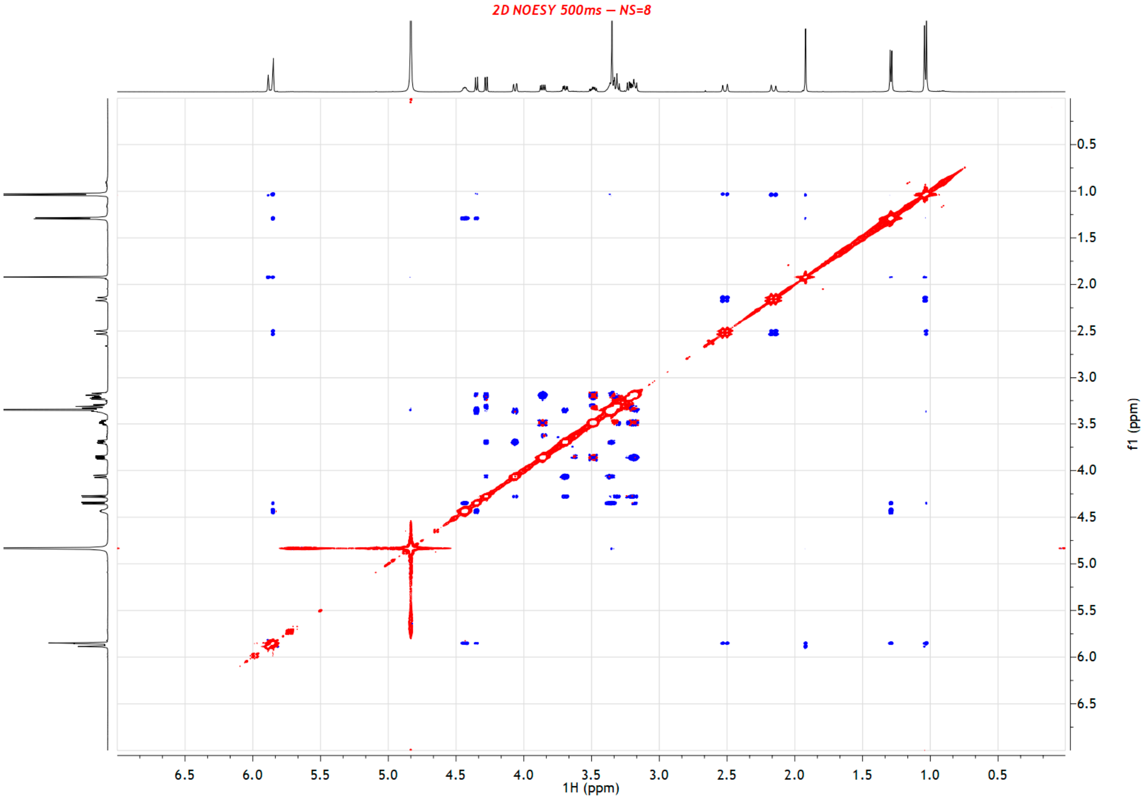


Figure S11. ^{1}H-^{1}H 2D NOESY NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

Figure S12. ^{1}H-^{13}C HSQC NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

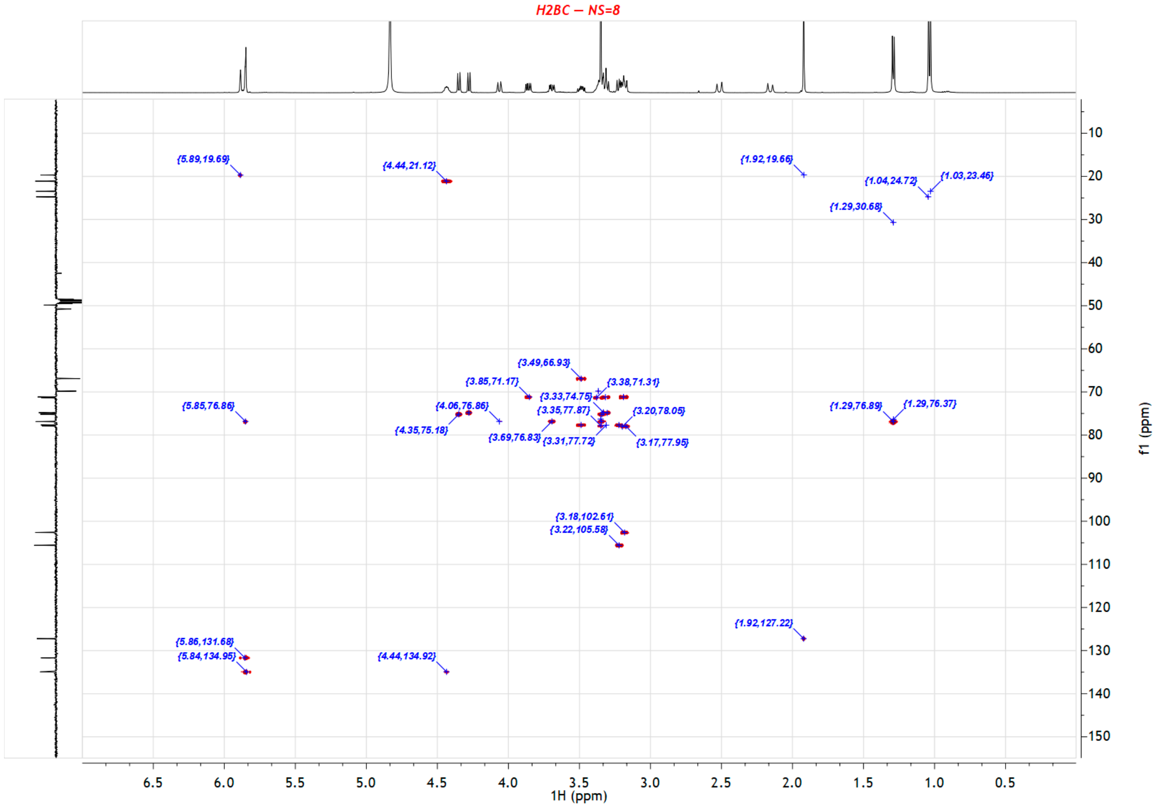


Figure S13. ^{1}H-^{13}C H2BC NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

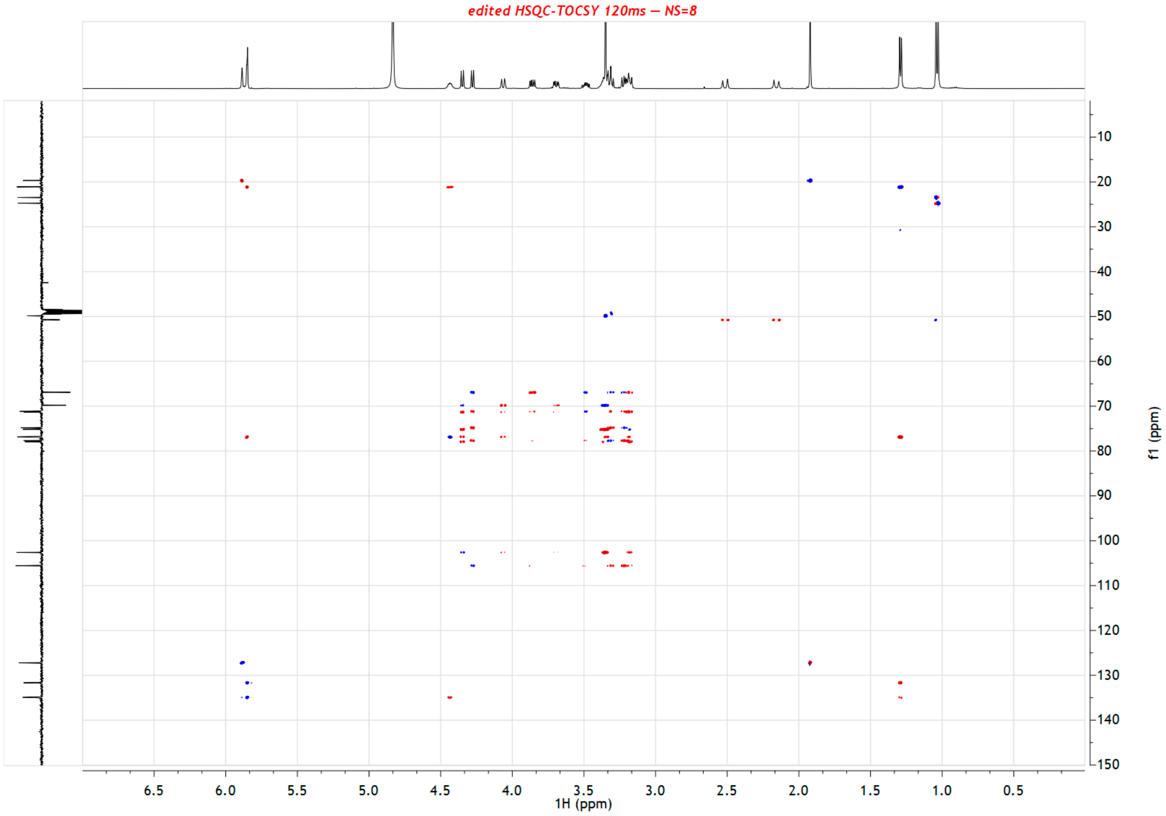


Figure S14. ^{1}H-^{13}C HSQC-TOCSY NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

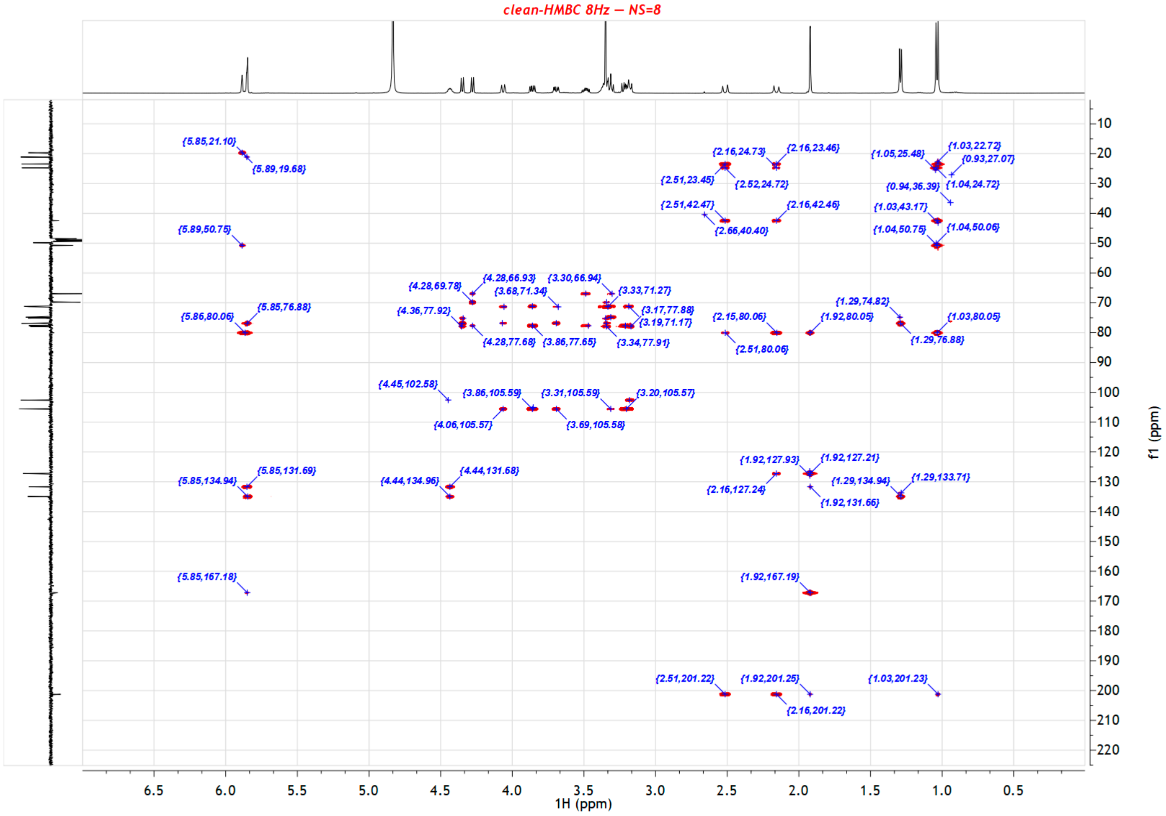


Figure S15. ^{1}H-^{13}C HMBC NMR (500 MHz) spectrum of pinnatifidanoside D, in MeOH-d$_4$, 25 °C.

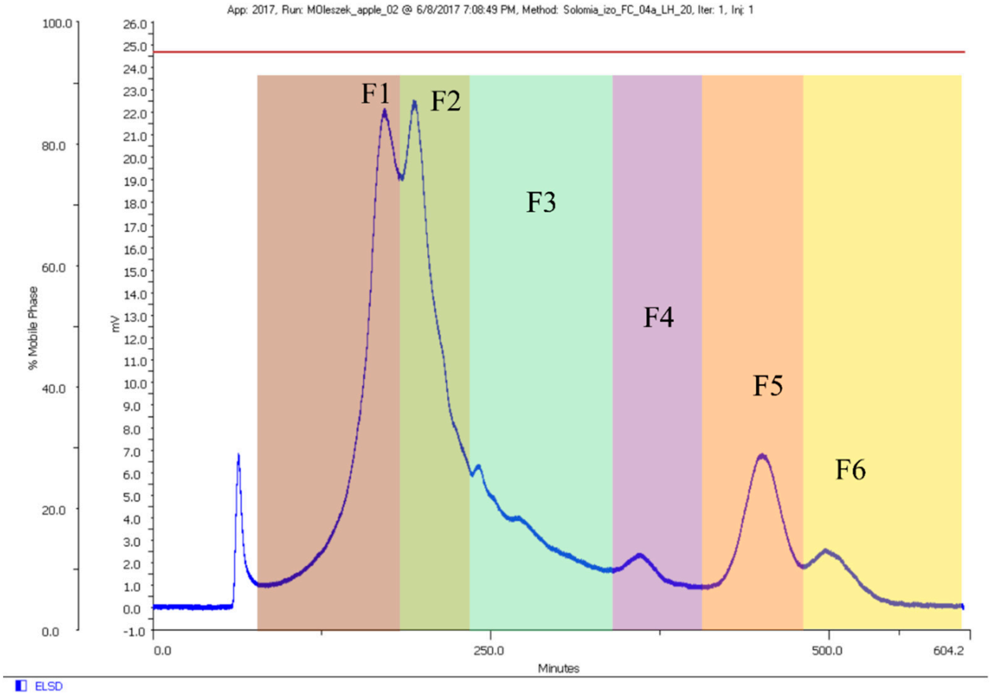


Figure S16. LH-20 chromatogram of plant specific metabolites fraction from apple pomace.