

Supporting Information

A comparative study of extraction methods and components identification of *Teucrium chamaedrys* and investigation of their antibacterial effect



Fig S1. Extraction by Hydrodistillation



Fig S2. Extraction by Microwave

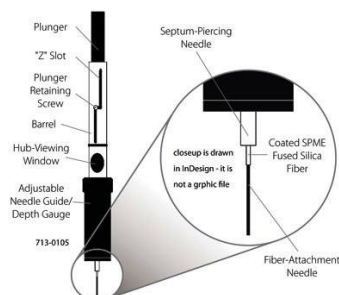


Fig S3. SPME culture

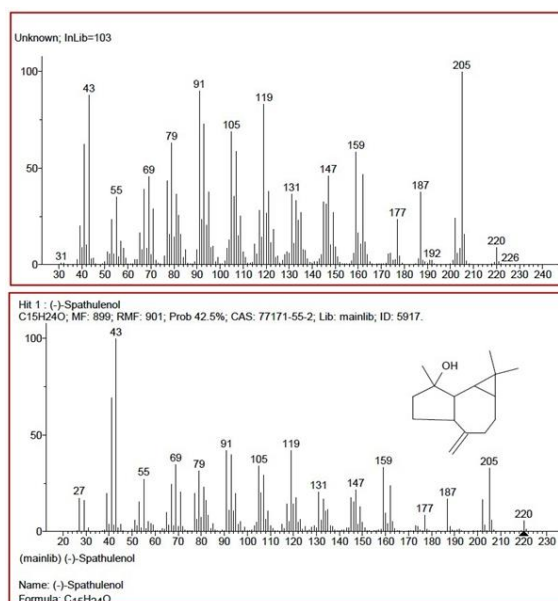


Fig S4. The mass spectrum obtained from the GC / MS device and the Spathulenol standard range

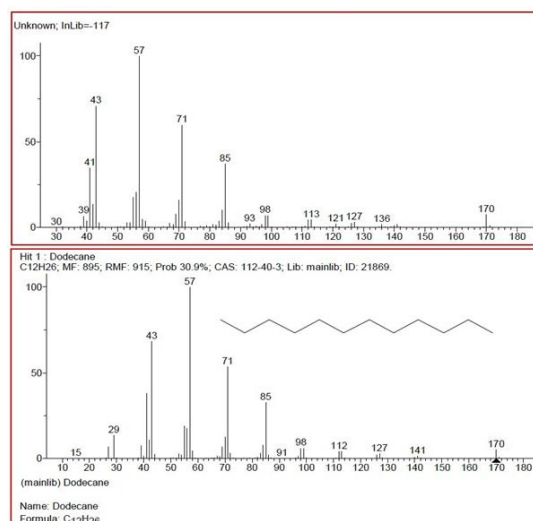


Fig S5. The mass spectrum obtained from the GC / MS device and the Dodecane standard range

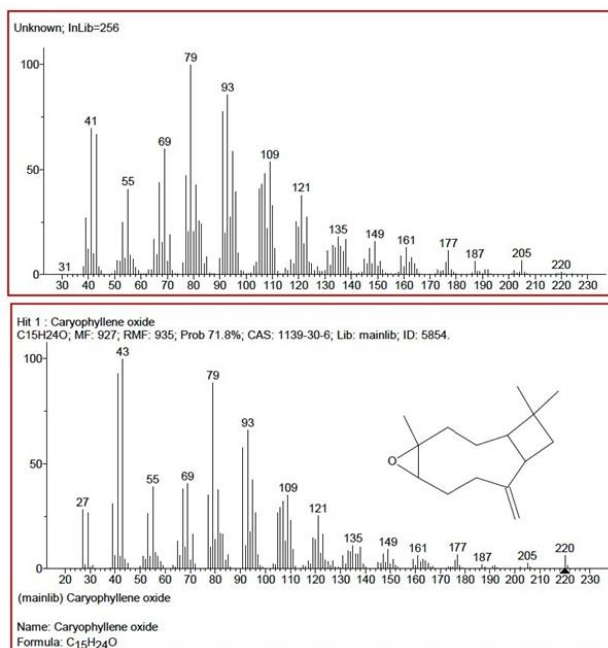


Fig S6. The mass spectrum obtained from the GC / MS device and the standard Caryophyllene oxide spectrum

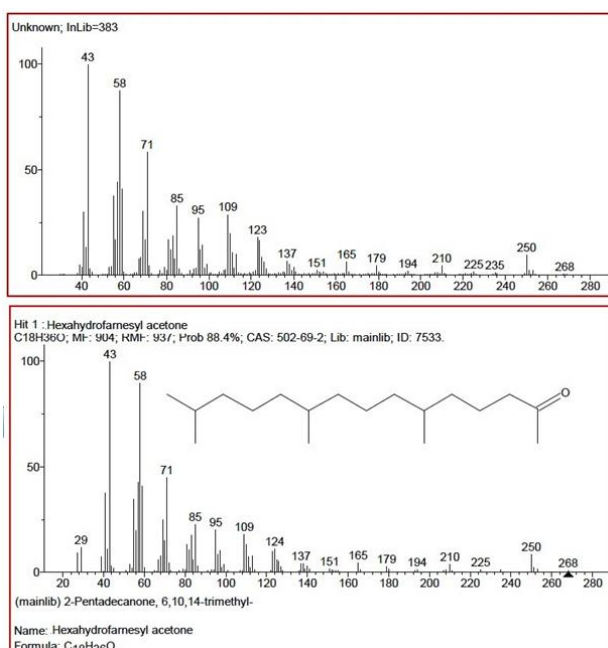


Fig S7. The mass spectrum obtained from the GC / MS device and the standard Hexahydrofarnesyl Acetone

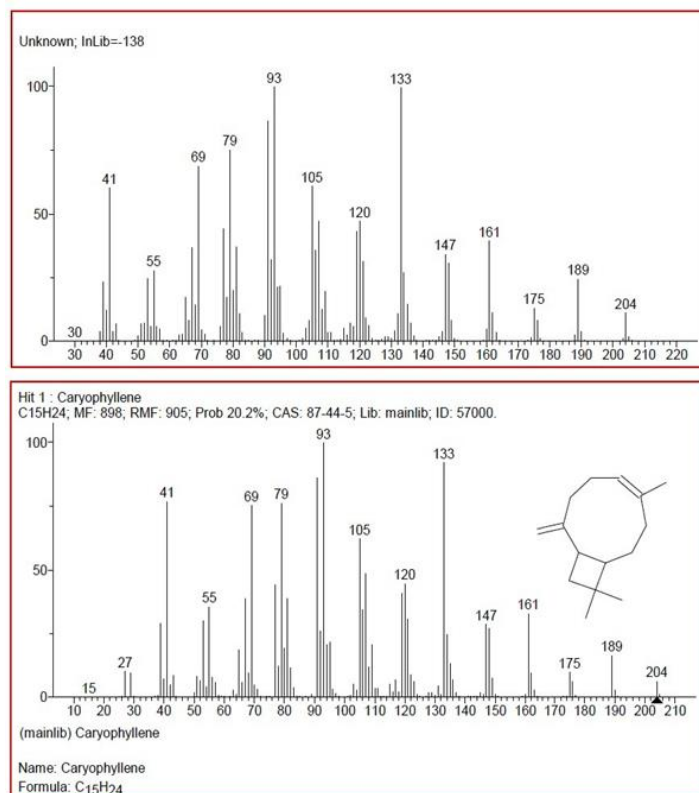


Fig S8. The mass spectrum obtained from the GC / MS machine and the standard Caryophyllene spectrum

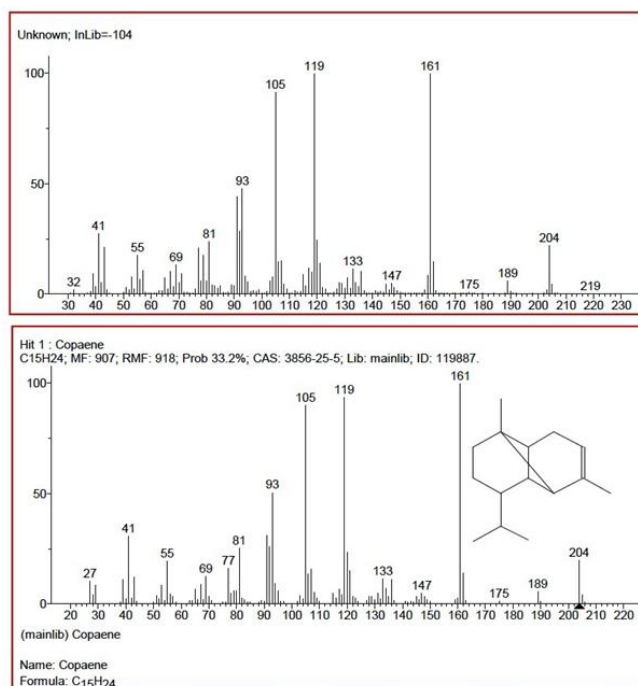


Fig S9. The mass spectrum obtained from the GC / MS device and the Copaene standard range

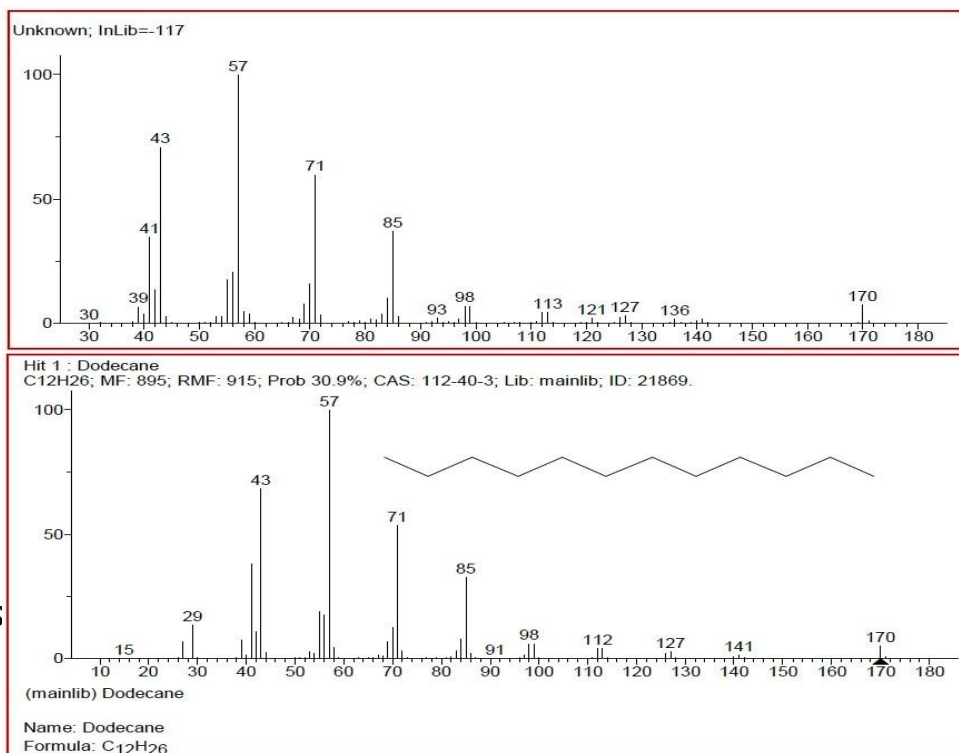
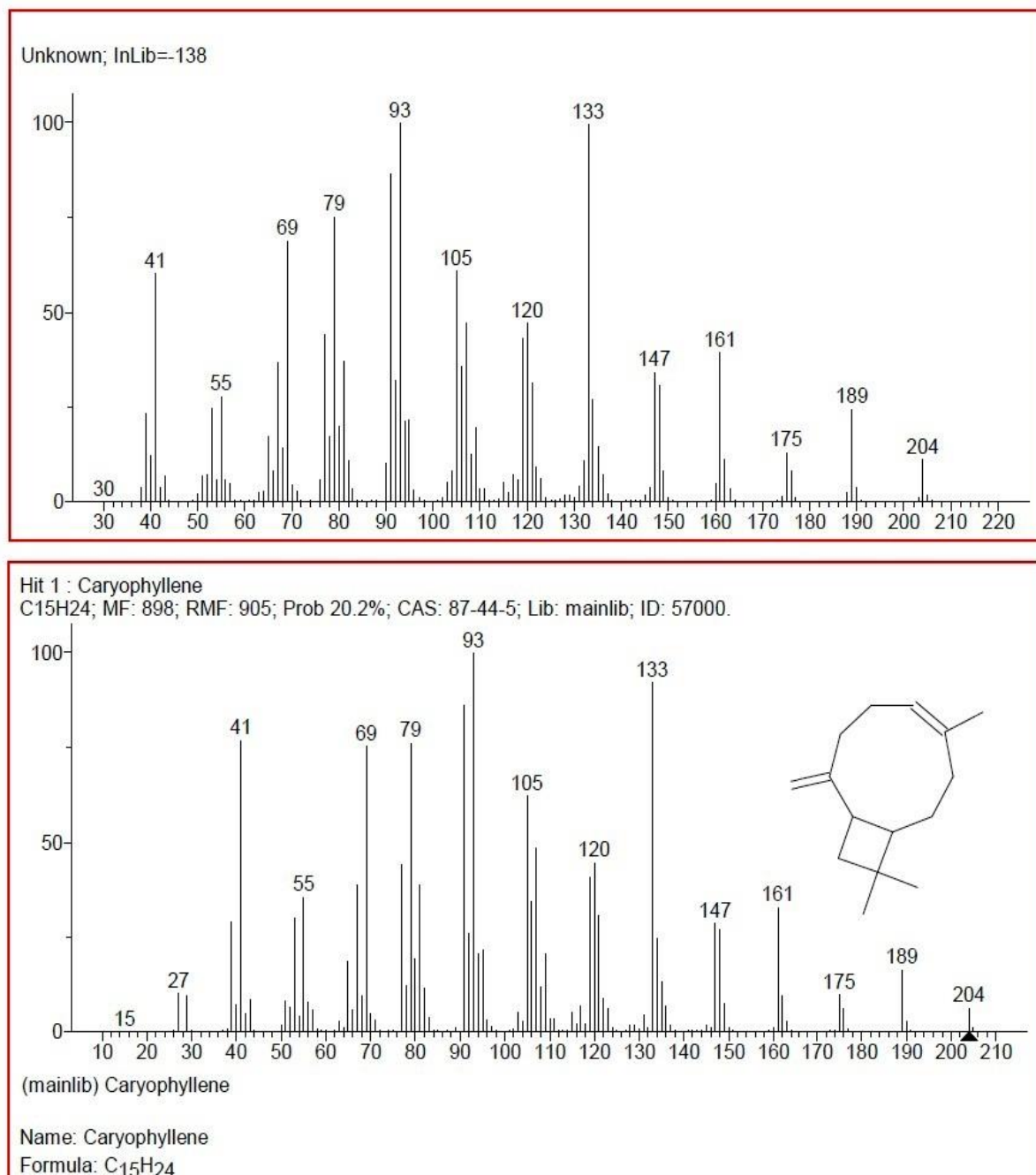


Fig S

range

Fig S11. The mass spectrum obtained from the GC / MS machine and the standard



Caryophyllene spectrum

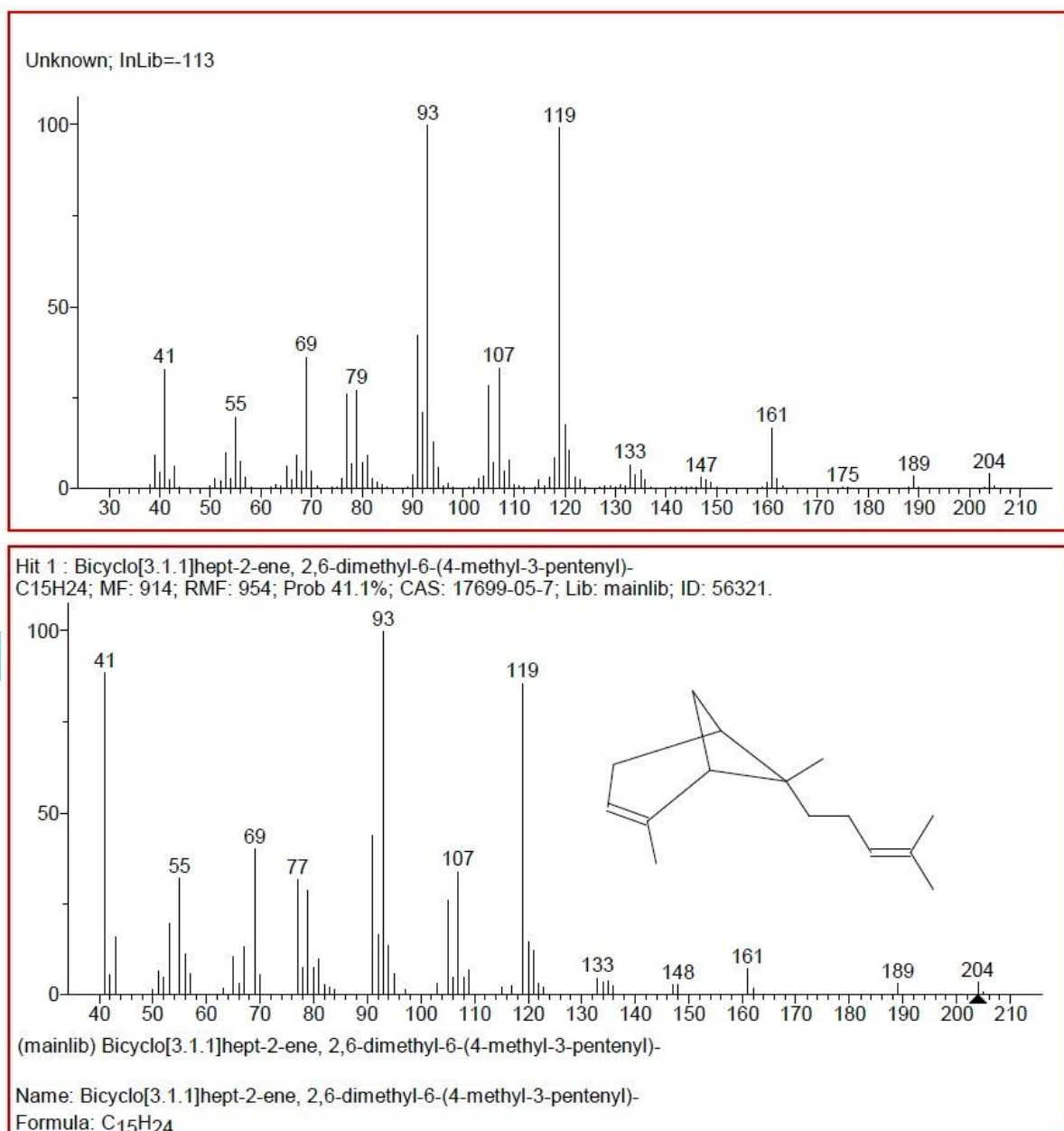


Fig S12. shows the mass spectrum obtained from the GC / MS and the standard range of Bicyclo [3.1.1] hept-2-ene, 2,6-dimethyl-6- (4-methyl-3-pentenyl) -

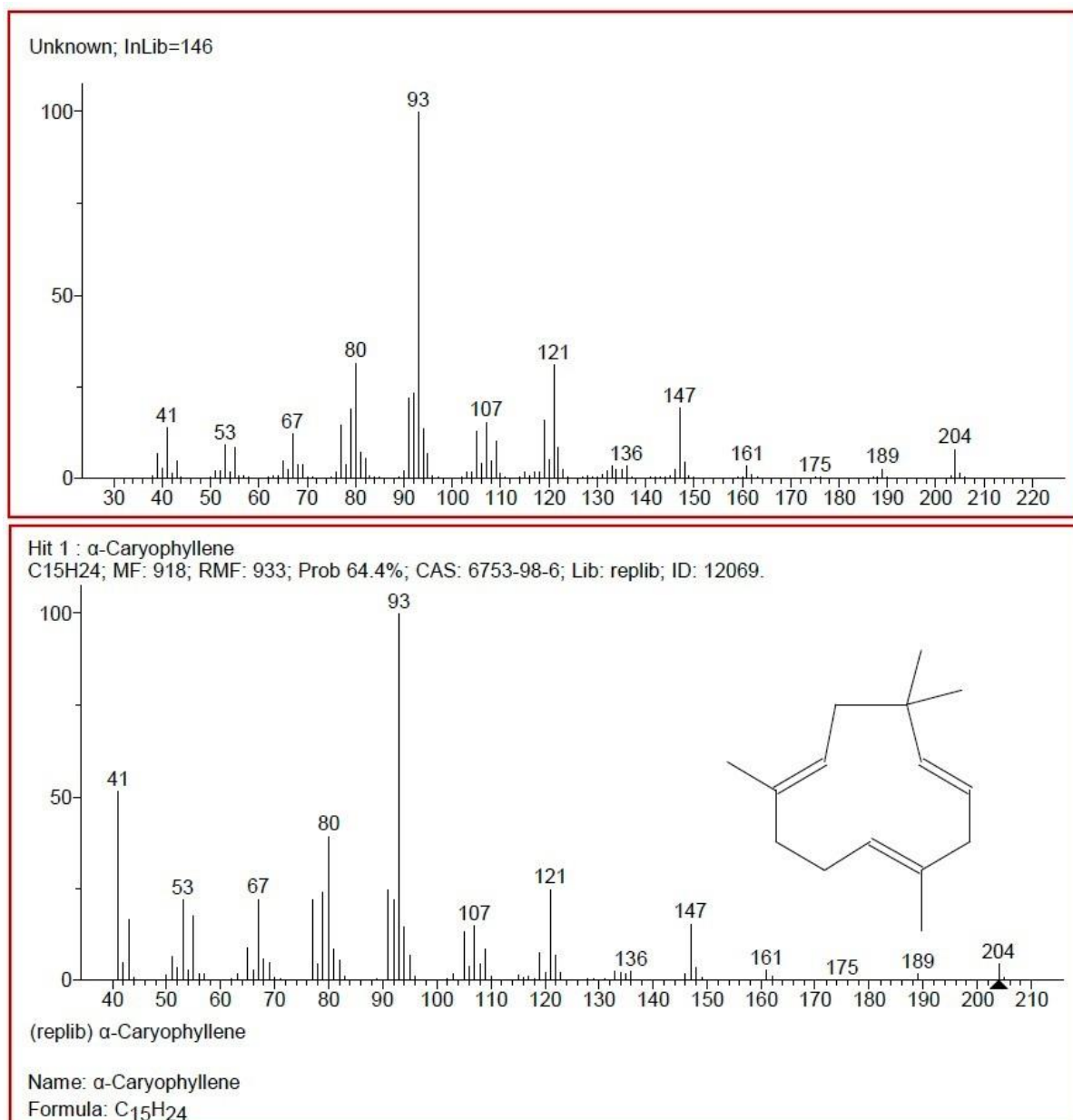
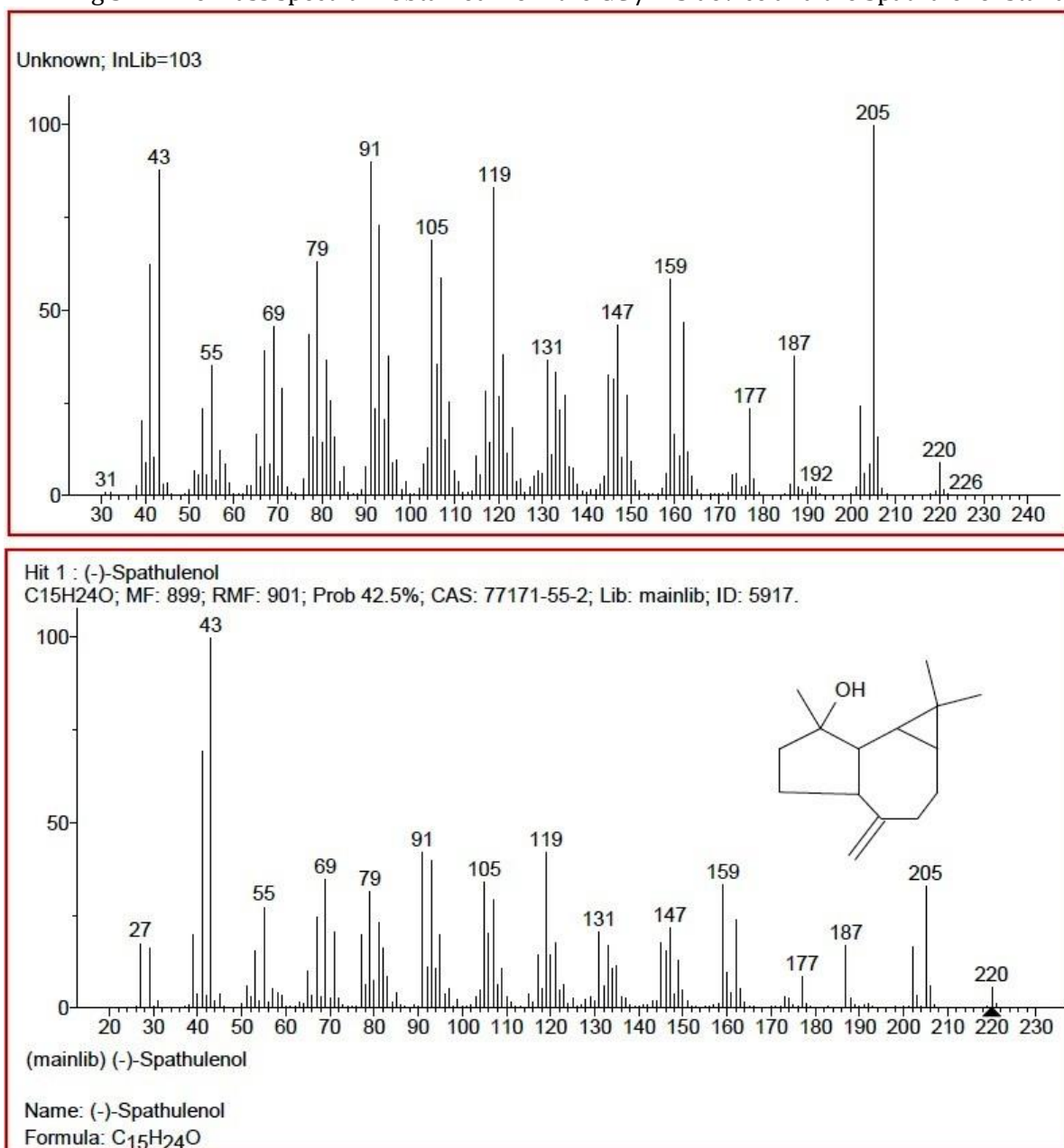


Fig S13. The mass spectrum obtained from the GC / MS device and the standard α -Caryophyllene spectrum

Fig S14. The mass spectrum obtained from the GC / MS device and the Spathulenol standard



range

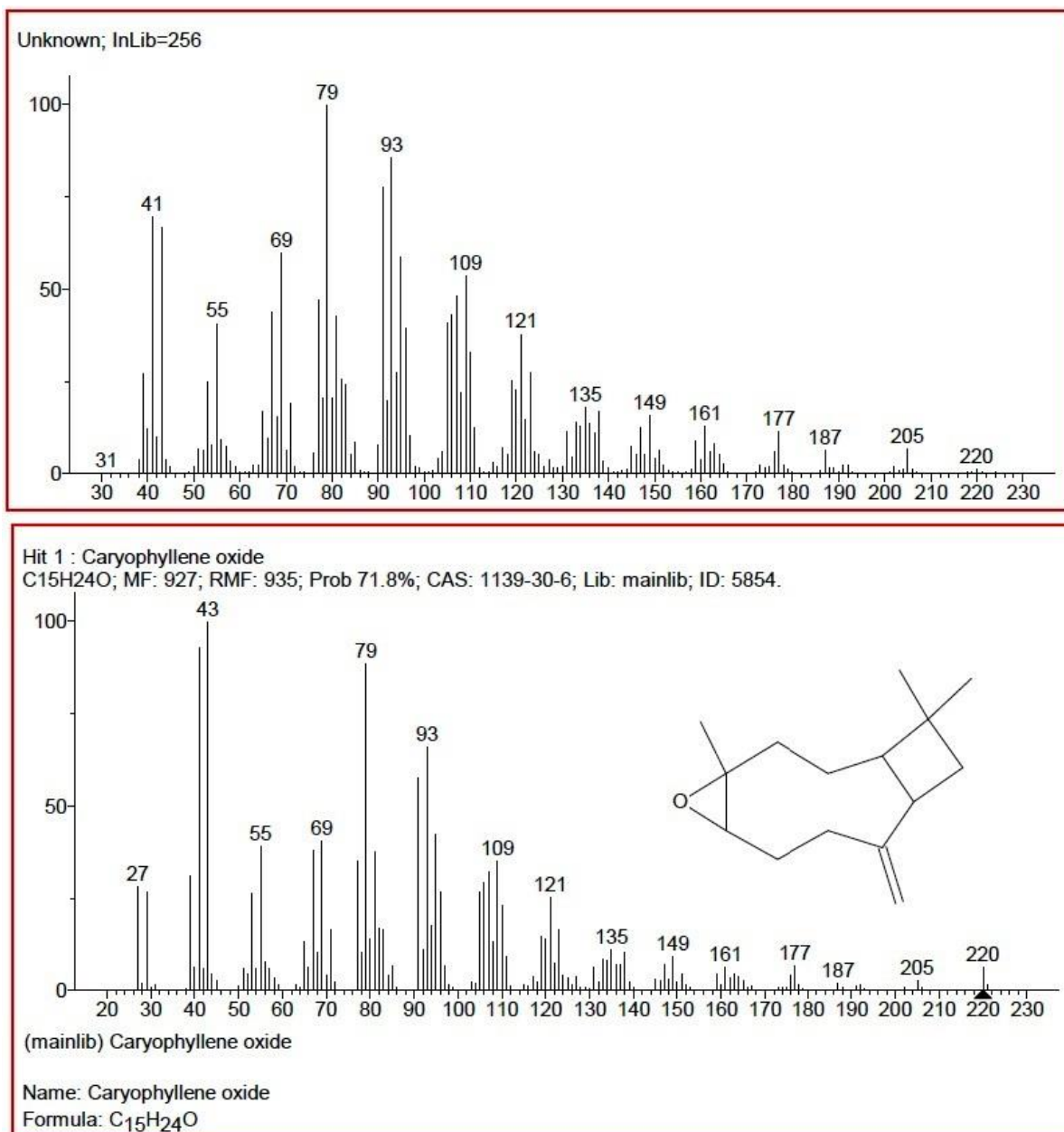


Fig S15. The mass spectrum obtained from the GC / MS device and the standard range of Caryophyllene oxide

Table S1: Specifications and Condition of the GC-MS Machine Used to Analyze Essential Oils

GC	HP-6890-HEWLETT PACKARD
Column Type	HP-5MS (5% phenyl di methyl siloxan)
Column dimensions	The length of 30 m, the diameter of 25.0 mm and film thickness 32.0 microns
Planning temperature pillars	Initial temperature 60 ° C (3 min), temperature gradient (° C) / min 5, final temperature 220 ° C
Injection site	Split/split less (Ratio 1 to 20)
Infusion temperature	250 °C
Gas carrier	Helium 999.99% with flow rate of 1 ml / min
Mass	HP-5973-HEWLETT PACKARD
Ion energy	70 Electron volts
Ion chamber temperature	230 degrees centigrade
Mass parser	Quadruple
Mass parser temperature	150 degrees centigrade

Table S2: Specifications of bacteria prepared for the analysis of essential oils

	ATCC	PTCC
Escherichia Coli	10536	1338
Staphylococcus Aureus	6538	1112