Supplementary material-1

LC-MS analysis of Rosemary leaves extract

Liquid Chromatography-Mass Spectrometry (LC-MS) analysis was performed to know the major components present in RE. LC-MS was performed on Agilent 1100 ion trap MSD mass spectrometer with ESI source in negative mode equipped with a degasser (G1379A), binary pump (G1312A), auto sampler (G1315B) (Waldbronn, Germany). The data acquired and processed using LC/MSD trap ChemStation software 4.2. Column was maintained at ambient temperature (23 ± 1 ºC), nitrogen as nebulizer and curtain gas and collision induced dissociation using helium gas. Ion source conditions (mass range: 50-600, temp: 325ºC, nebulizer gas: 40 psi, dry gas: 8.0 L/min, ion spray voltage: 5000 V, collision energy: 33 V and dwell time: 200ms). Chromatographic conditions: column (Waters XSELECT CSH Phenyl-Hexyl, 5µm; 4.6X150mm), mobile phase condition (Acetonitrile and water with 0.1% Formic acid (50:50)), flow rate (1.0 mL/min) and detection (DAD, 210nm).

Figure S1: Chromatogram (210nm) corresponding to the LC-MS analysis of the Rosemary extract.

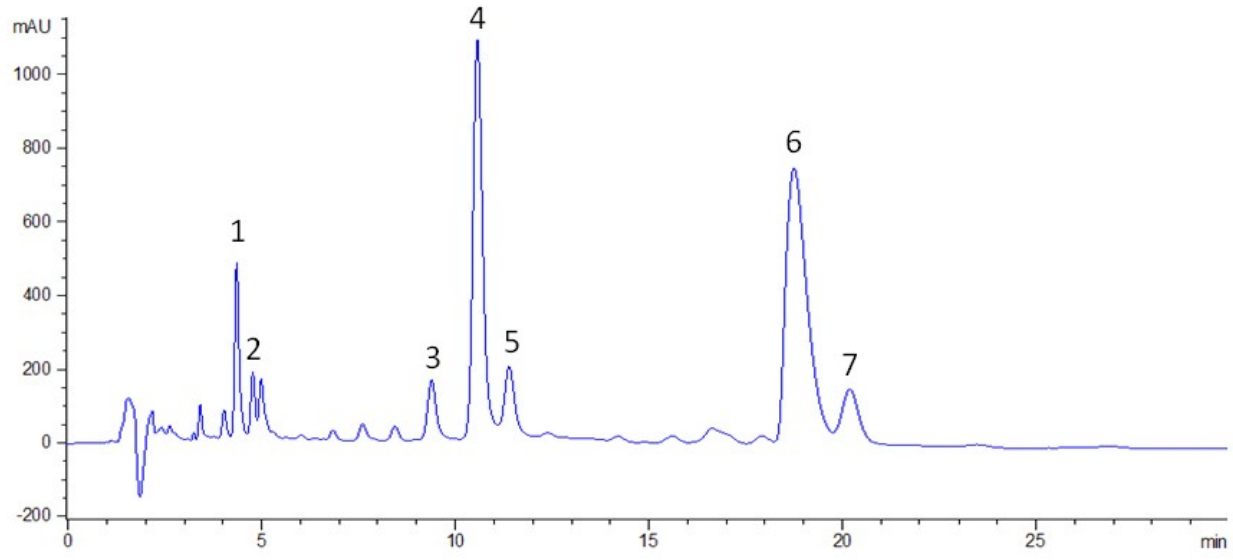
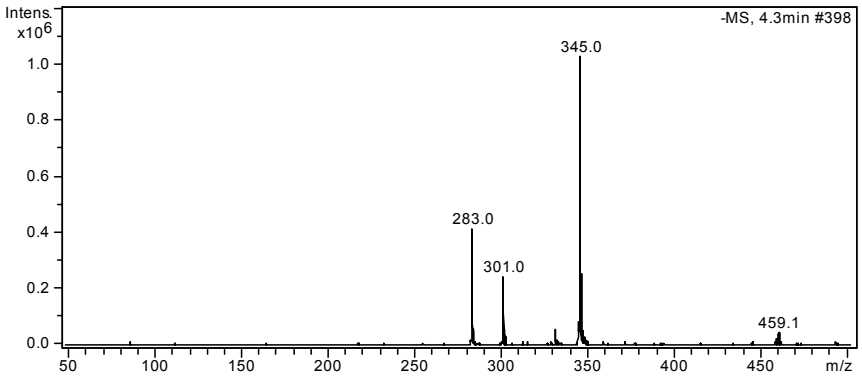
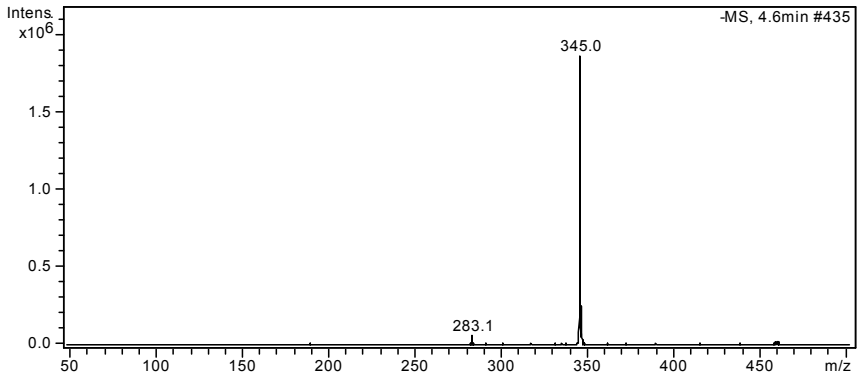


Figure S2: MS of major ingredients in the RE extract with their retention time

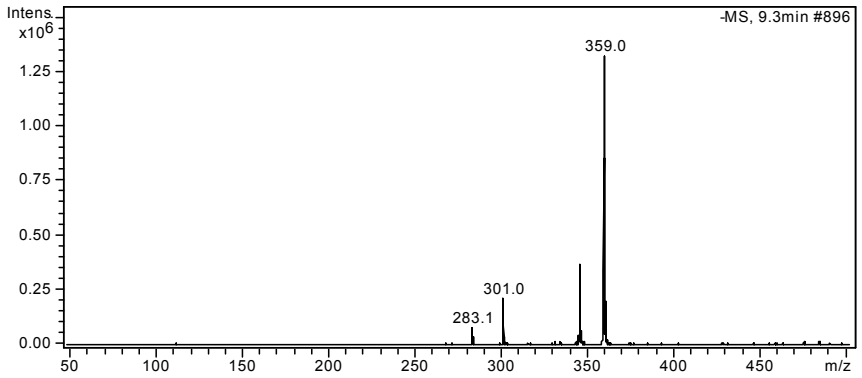
Peak No: 1 (Rt: 4.3min, Proposed compound: Rosmanol)



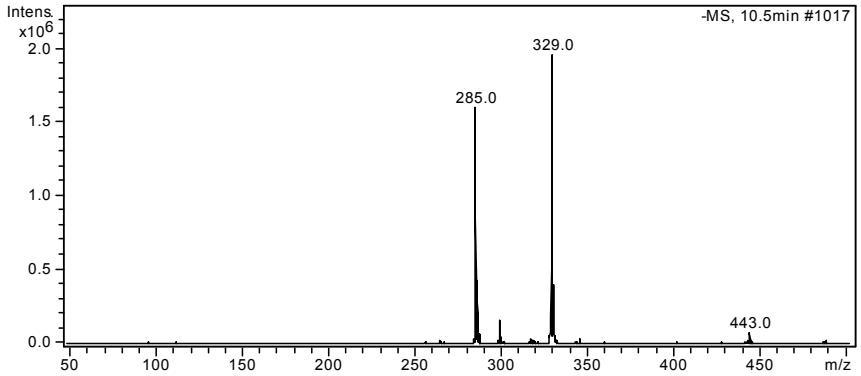
Peak No: 2 (Rt: 4.6min, Proposed compound: Epirosmanol)



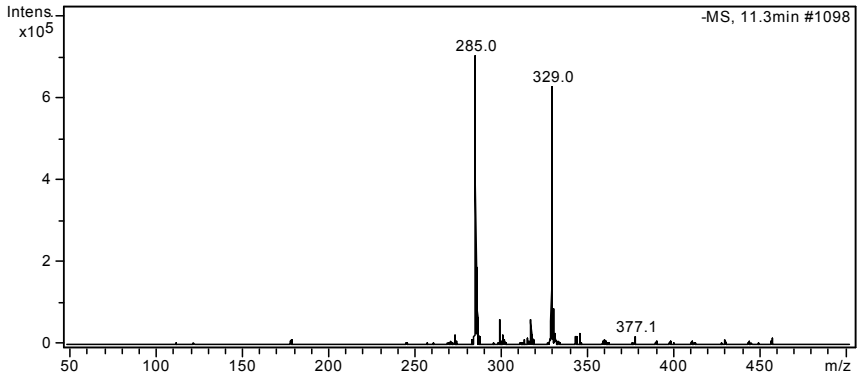
Peak No: 3 (Rt: 9.3min, Proposed compound: Rosmanol methyl ether)



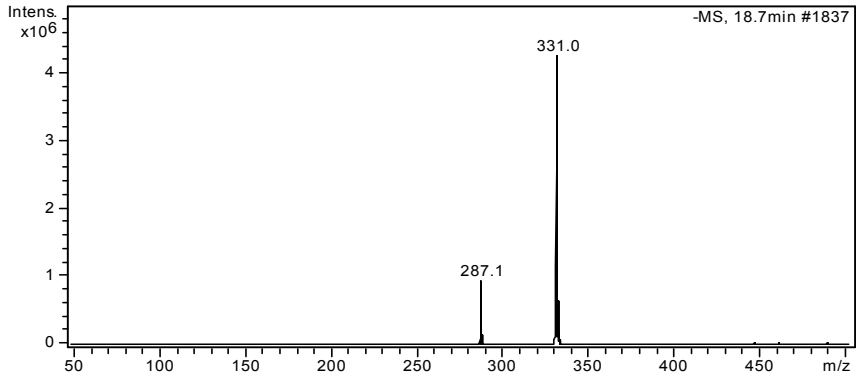
Peak No: 4 (Rt: 10.5min, Proposed compound: Carnosol)



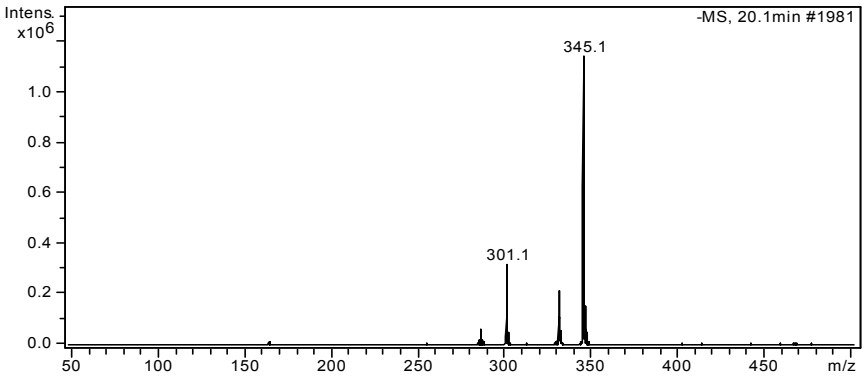
Peak No: 5 (Rt: 11.3min, Proposed compound: Carnosol isomer)



Peak No: 6 (Rt: 18.7min, Proposed compound: Carnosic acid)



Peak No: 7 (Rt: 20.1min, Proposed compound: methylcarnosate)


Intens.
x10^6
-MS, 20.1min #1981
345.1
301.1
1.0
0.8
0.6
0.4
0.2
0.0
50
100
150
200
250
300
350
400
450
m/z