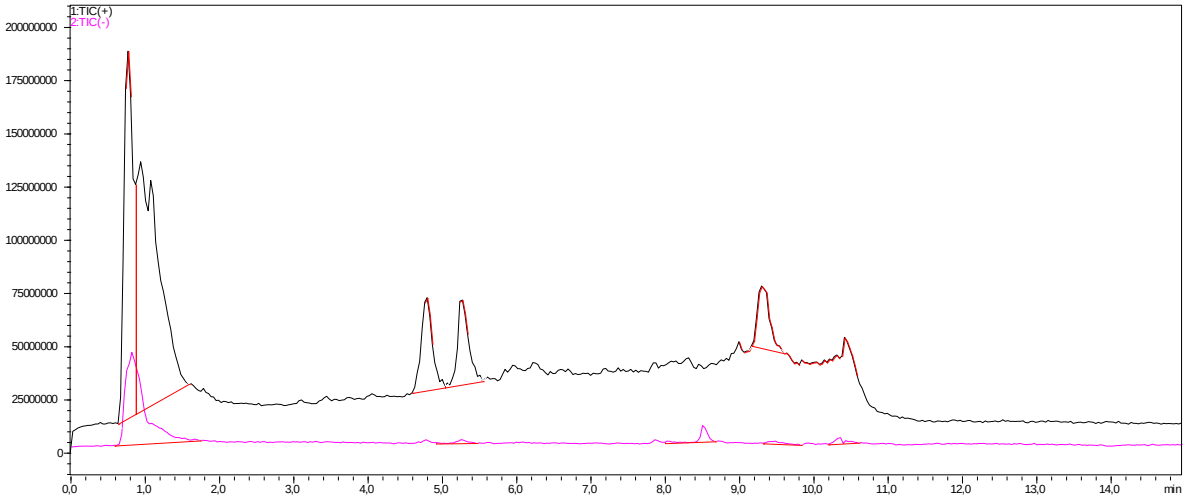
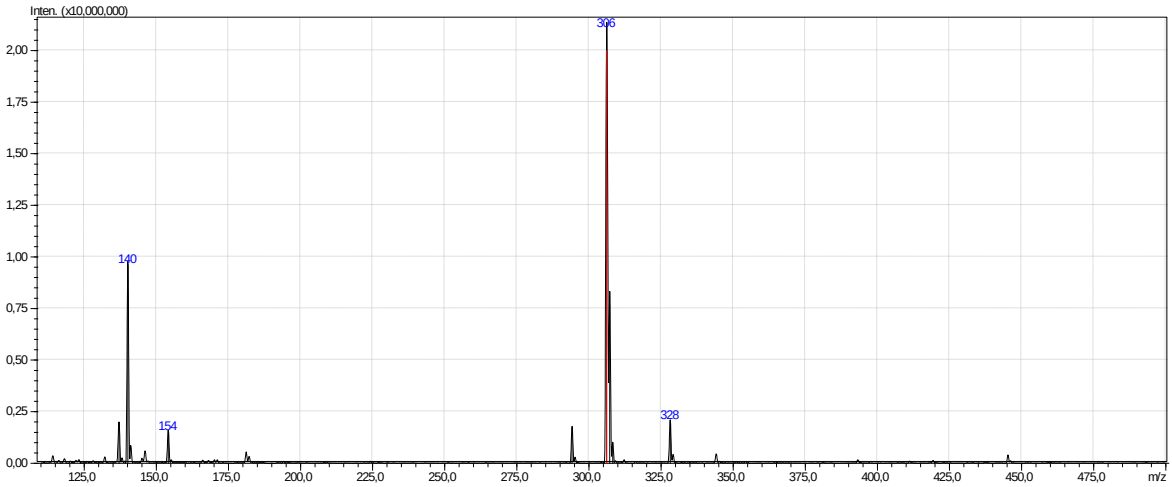
The first mass spectra positive (blank one) and the second mass spectra are the results of negative (pink one). 306 is indicated capcaicin and 308 is indicated Dihydrocapsaicin.

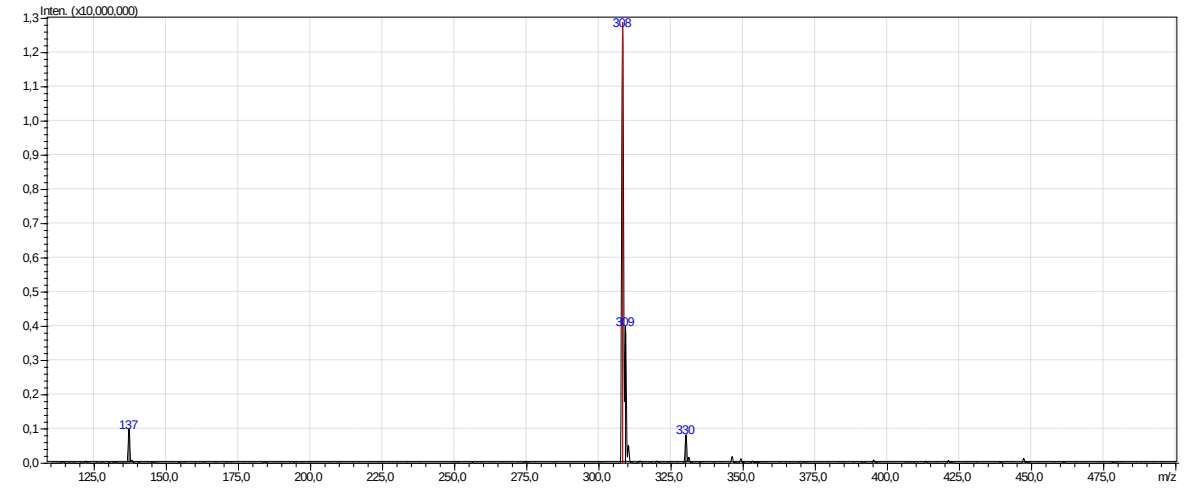
**Supplementary Figure S1:** The first came from capsaicin peak and the second from dihydrocapsaicin peak of RCP within 4,6 min. and 6 min.



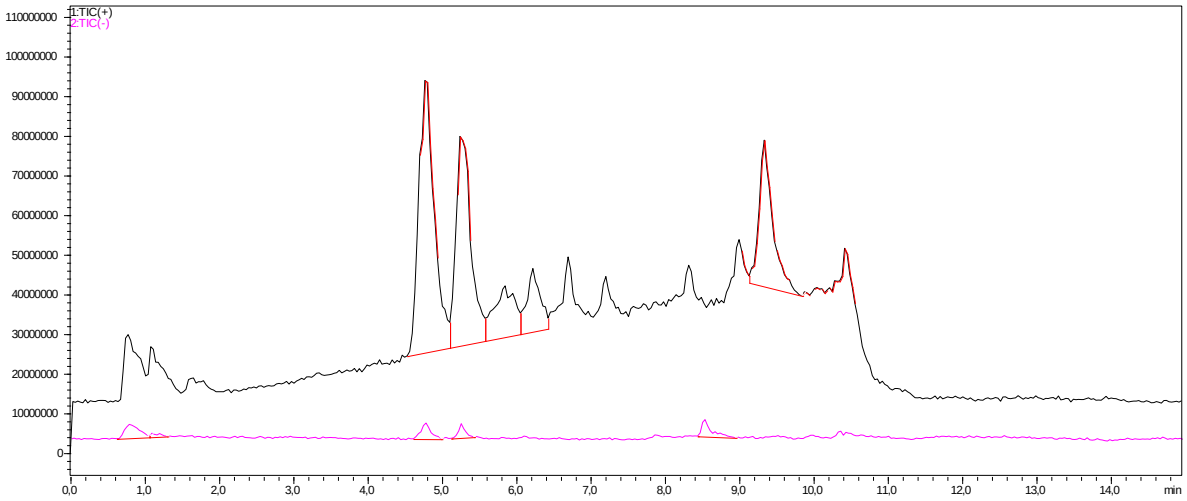

**MS chromatogram of capcaicin (306** g.mol$^{-1}$**) of RCP**



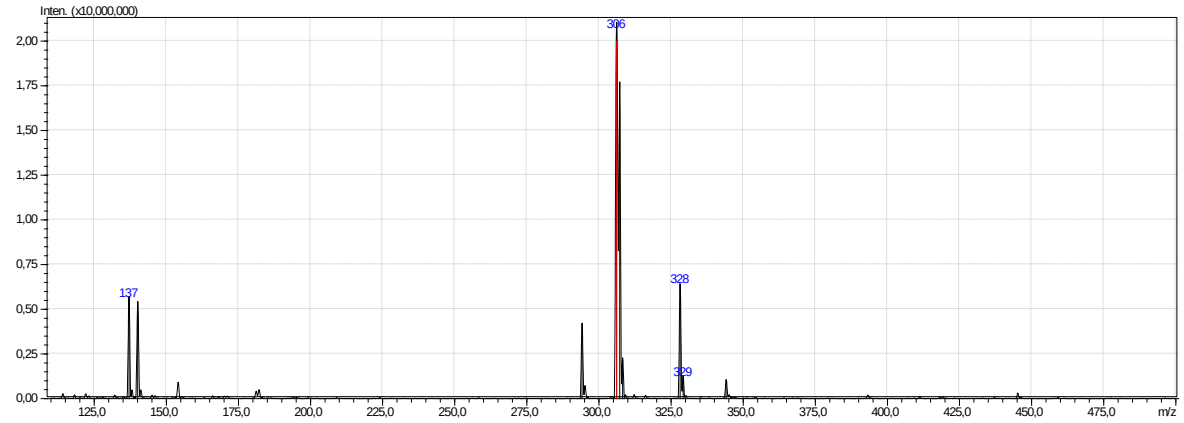
**MS chromatogram of Dihydrocapsaicin (308 g.mol$^{-1}$) of RCP**



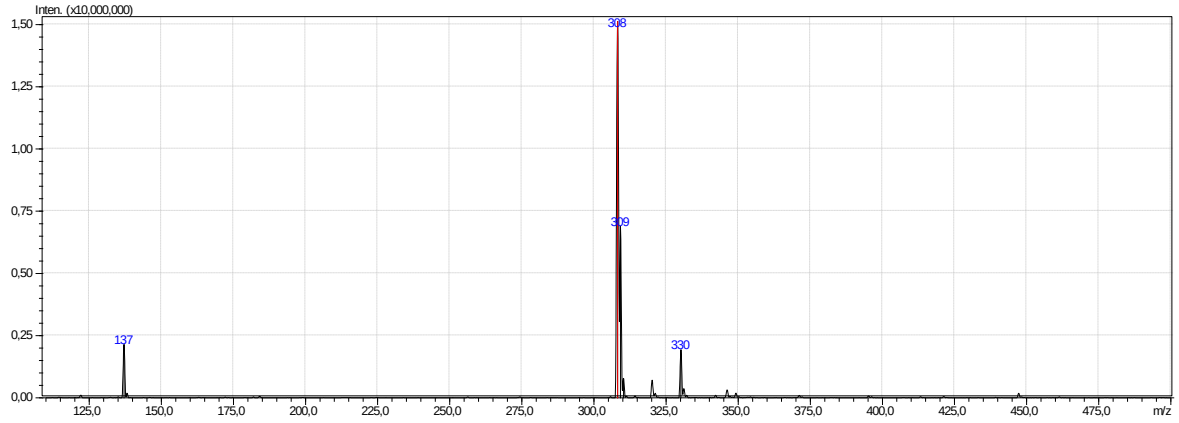

**Supplementary Figure S2:** Capcaicin peak within 4.6 and 5 min. Dihydrocapsaicin peak within 5 and 6 min. of CSP



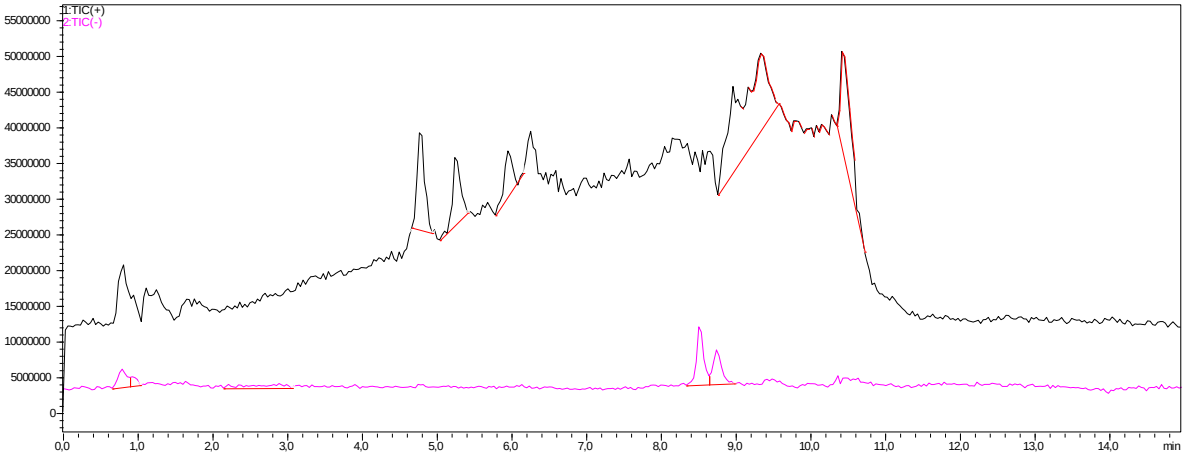

**MS chromatogram of capcaicin (306 g.mol$^{-1}$) of CSP**



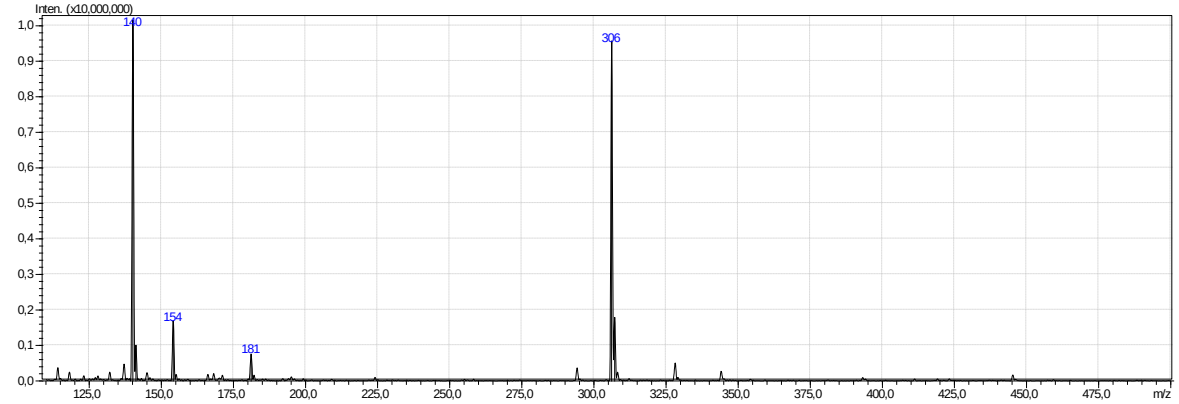
**MS chromatogram of Dihydrocapsaicin (308 g.mol$^{-1}$) of CSP**




**Supplementary Figure S3 :**Capcaicin peak is within 4.9 and 5.2 min. and Dihydrocapsaicin within 5.2 – 6 min. of GHAP




**MS chromatogram of capcaicin (306 g.mol$^{-1}$) of GHAP**



**MS chromatogram of Dihydrocapsaicin (308 $gmol^{-1}$) of GHAP**

