**Abstract**

In the first part of works, we identified the phenolic content of the hydromethanolic extract of *Ammoides atlantica* belonging to the Apiaceae, by the use of RP-UHPLC-ESI-QTOF-MS technique,in the negative ionization mode. A total of 66 chemical compounds were found, including hydroxycinnamic acids (16), hydroxybenzoic acid (4), flavones (11), flavonols (3), and a lignan. The antioxidant assays, using 6 methods (DPPH, ABTS, $O_2^-$ DMSO alkaline, ferrous ions chelating, Reducing power, CUPRAC) revealed the antioxidant power of the hydroalcoholic extract of *Ammoides atlantica*. In a second part, we iolated and identified the secondary metabolites of two species of the genus *Ormenis*(*O. mixta et O. praecox*) belonging the Asteraceae family, by the use of the modern chromatographic techniques of separation (VLC, CC, TLC HPLC) and physico-chemical techniques such as UV-Vis, mono- and bi-dimensional NMR performance ( HMBC, HSQC, Cosy), HPLC-UV-DAD-MS and Mass spectrometry, in addition of acid hydrolysis. 9 Guaianolides from which 5 new and 5 compounds were isolated from *O. mixta* and *O. praecox*, respectively.

**Keywords :***Ammoides atlantica* Apiaceae,*Ormenis mixta*, *Ormenis praecox,* Asteraceae, RP-UHPLC-ESI-QTOF-MS, antioxidant activity.