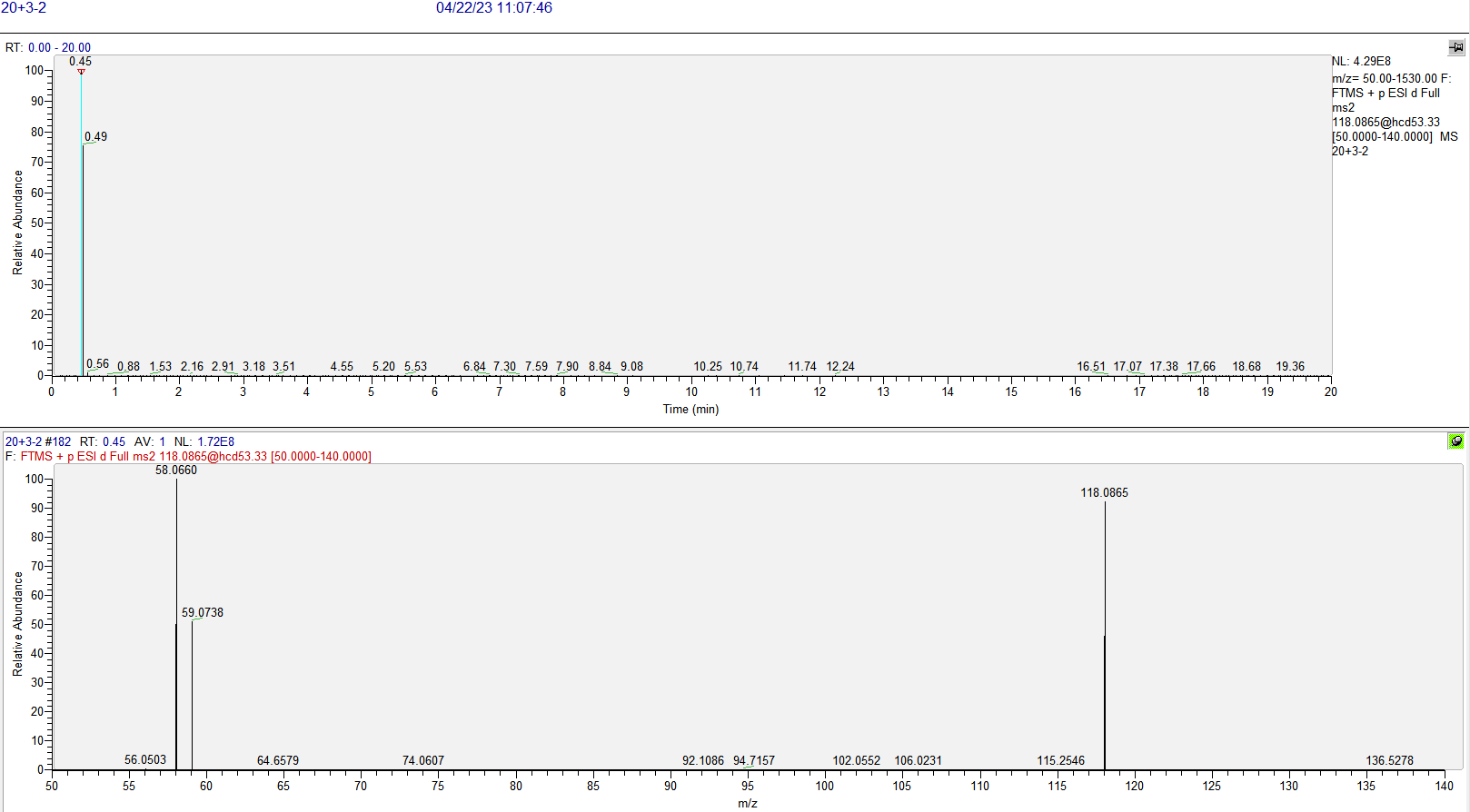
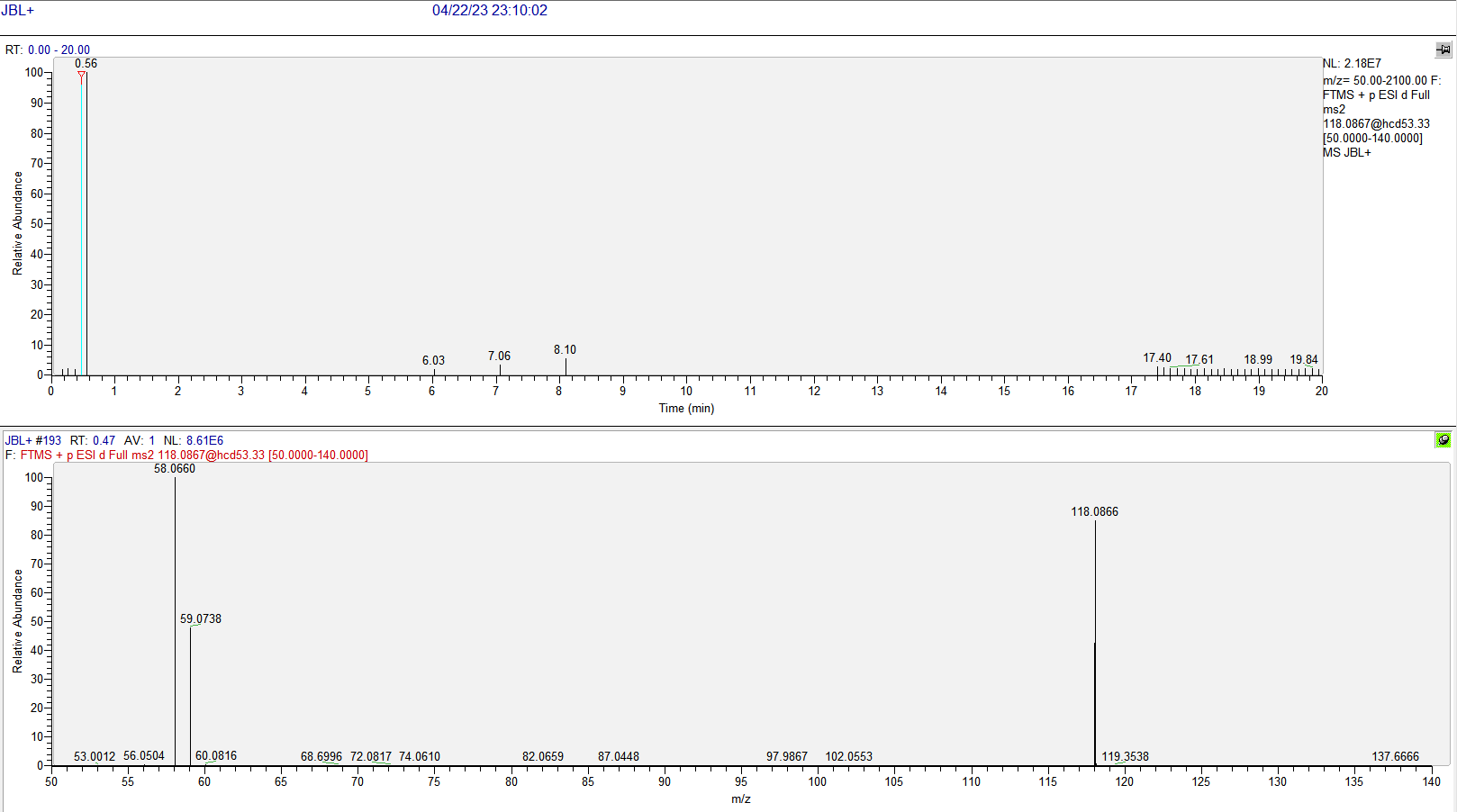
*Suppl. 2.2* Identification of Betaine (CAS 107-43-7, C5H11NO2, M.W. 117.148).



**A**



**B**

**A**

**A**

**A**

Fig. S1.2.2 The main results of Betaine (CAS 107-43-7, C5H11NO2) and its corresponding peak in the TIC diagram using UPLC-Q-Orbitrap-MS analysis. (**A**) The MS/MS fragments of standard betaine. (**C**) The MS/MS spectra from chromatographic peak in the JBL extract.

**Note**：The m/z values in purple are the calculated ones. The m/z calculation was based on the relative atomic masses of C (12.0000), H (1.007825), O (15.994915), and N (14.003074)[1]

**Identification**: As seen in Fig. S1.2.2, the extract ion peak, MS/MS spectra, and characteristic pears were highly similar. Thus, the chromatographic peaks in the JBL extracts were identified as Betaine (CAS 107-43-7).

**References**:

[1] JÜRGEN H GROSS, *Mass spectrometry*. 2013, Beijing: Science press.