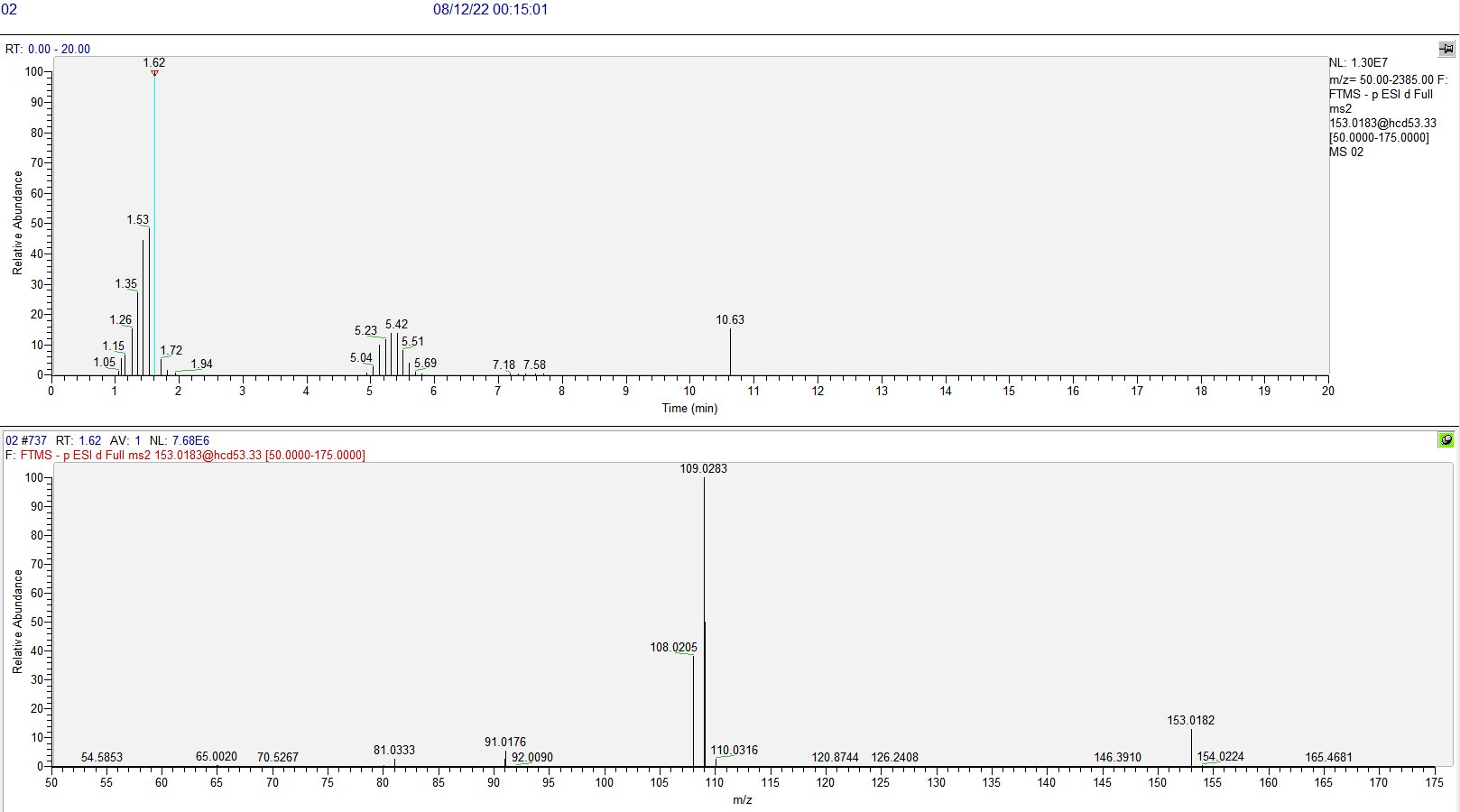
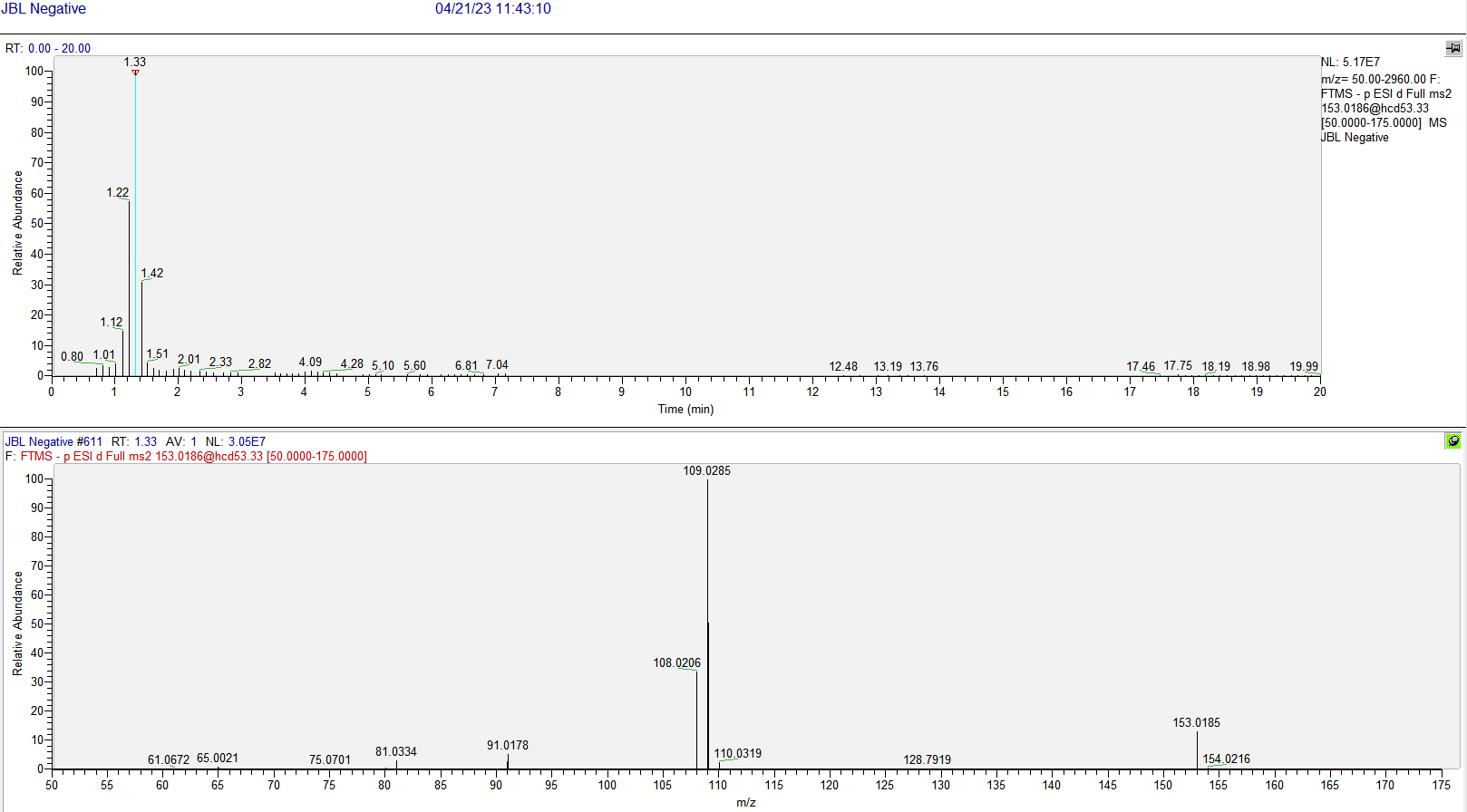
*Suppl. 2.9* Identification of Protocatechuic acid (CAS 99-50-3, C7H6O4, M.W. 154.12).



**A**



**B**

**A**

**A**

**A**

Fig. S1.2.9 The main results of Protocatechuic acid (CAS 99-50-3, C7H6O4) and its corresponding peak in the TIC diagram using UPLC-Q-Orbitrap-MS analysis. (**A**) The MS/MS fragments of standard Protocatechuic acid. (**B**) 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. S1.2.9, the extract ion peak, MS/MS spectra, and characteristic pears were highly similar. Thus, the chromatographic peaks in the JBL extracts were identified as Protocatechuic acid (CAS 99-50-3).

**References**:

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