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Electronic Supplementary Information

The identification of glycolaldehyde, the simplest sugar, in plant systems

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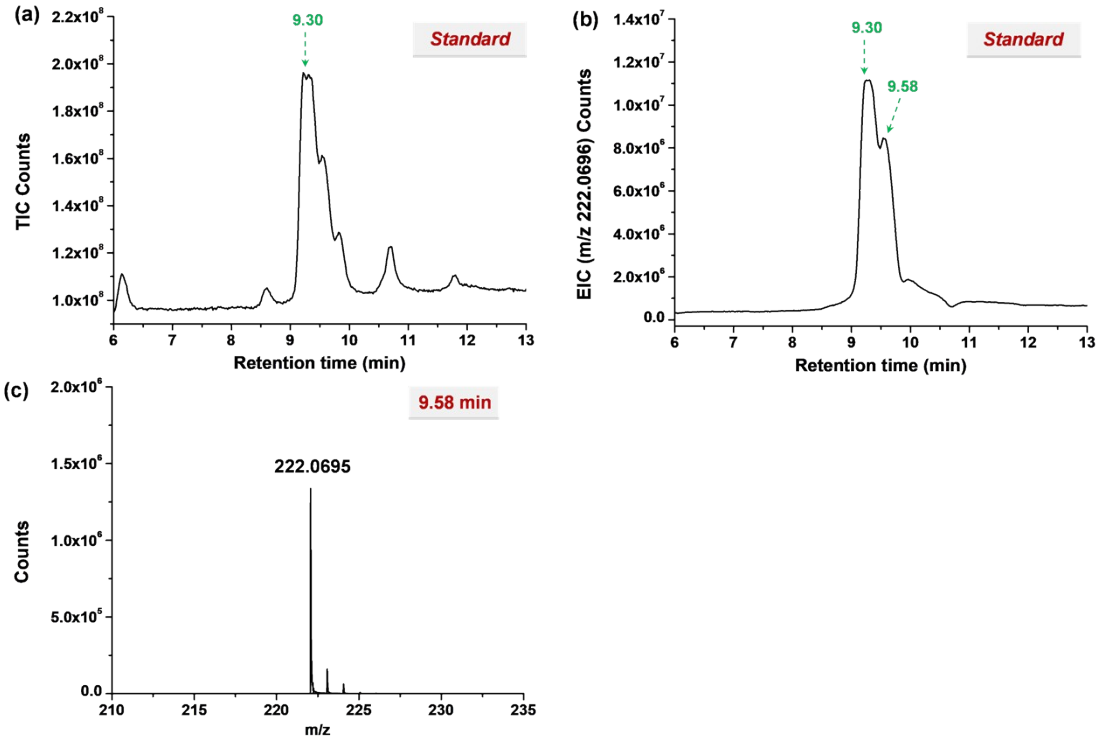

Fig. S1 (a) (b) LC-MS total ion count (TIC) and extracted ion count (EIC, 222.0696) of MBTH standard sample, respectively. (c) High resolution mass spectrometry of a sample with a retention time of 9.58 min. On the mass spectrometer, all the experiments were performed in positive electrospray ionization (ESI) mode.

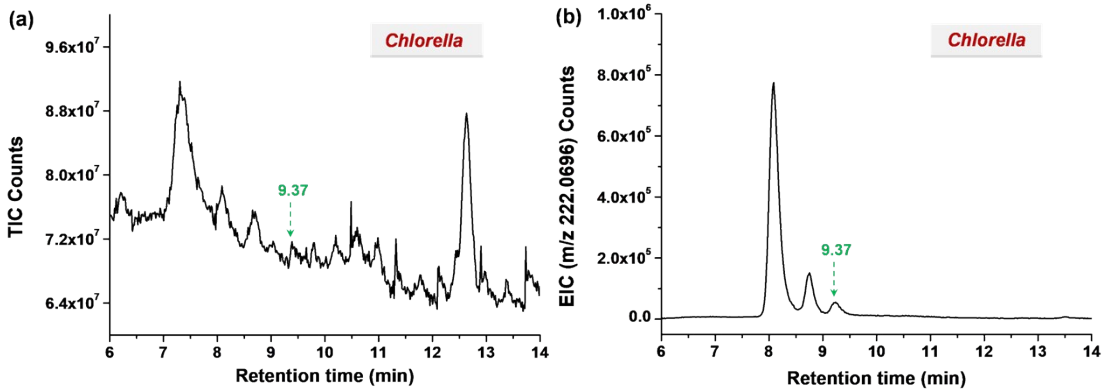

Fig. S2 (a) (b) LC-MS total ion count (TIC) and extracted ion count (EIC, 222.0696) of *Chlorella*, respectively. On the mass spectrometer, all the experiments were performed in positive electrospray ionization (ESI) mode.

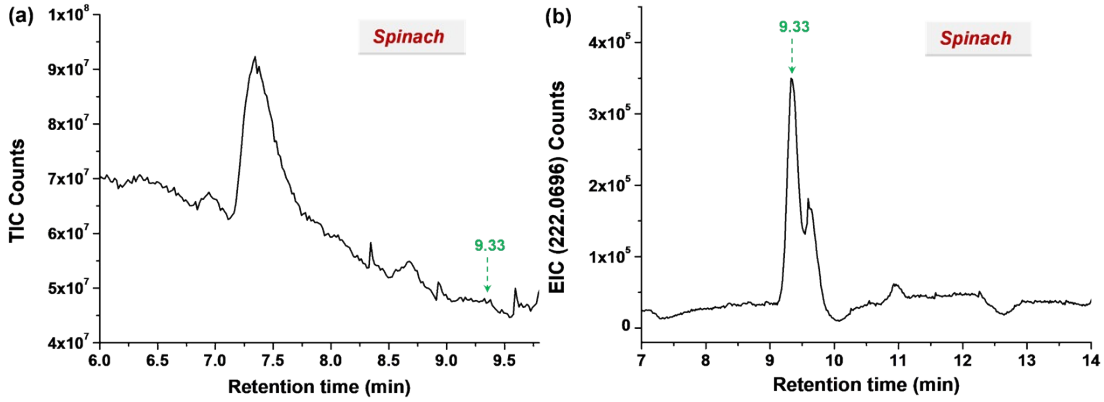

Fig. S3 (a) (b) LC-MS total ion count (TIC) and extracted ion count (EIC, 222.0696) of Spinach, respectively. On the mass spectrometer, all the experiments were performed in positive electrospray ionization (ESI) mode.

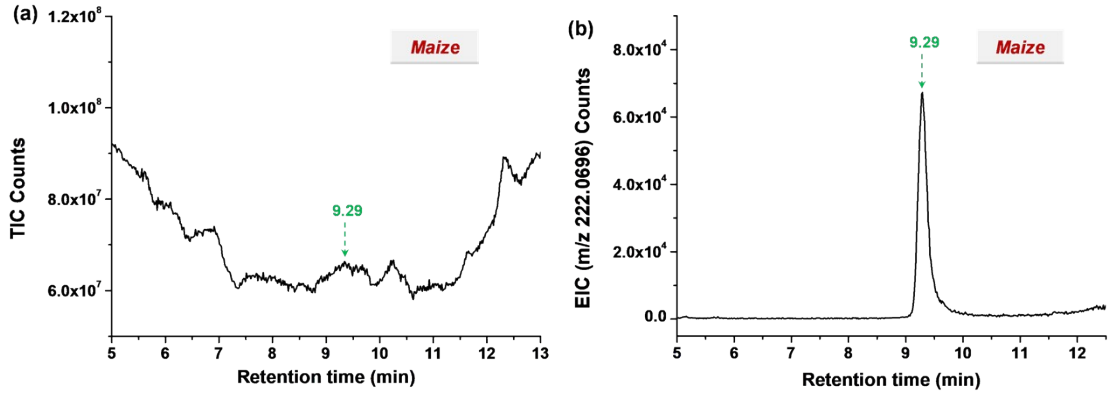

Fig. S4 (a) (b) LC-MS total ion count (TIC) and extracted ion count (EIC, 222.0696) of maize，respectively. On the mass spectrometer, all the experiments were performed in positive electrospray ionization (ESI) mode.

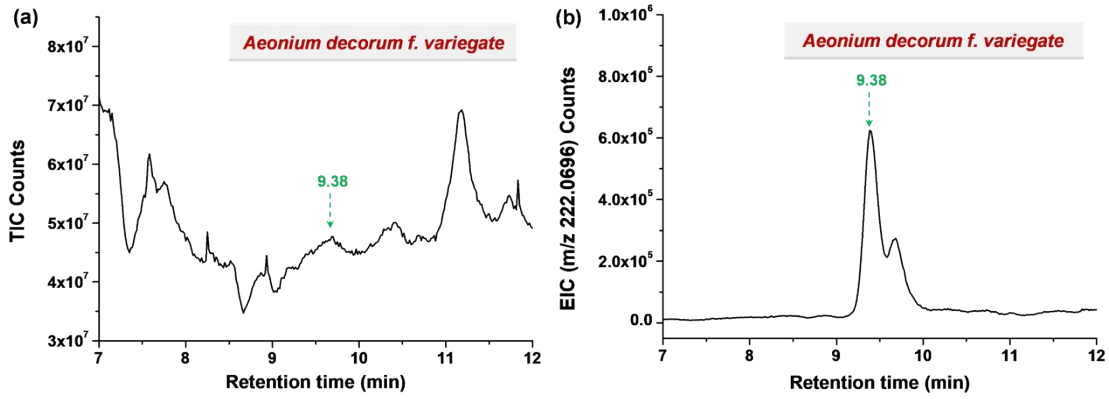

Fig. S5 (a) (b) LC-MS total ion count (TIC) and extracted ion count (EIC, 222.0696) of *Aeonium decorum f. variegate* of the genus Aeonium, respectively. On the mass spectrometer, all the experiments were performed in positive electrospray ionization (ESI) mode.