

# Differentiation of Maturity and Quality of Fruit Using Non-Invasive Extractive Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometry

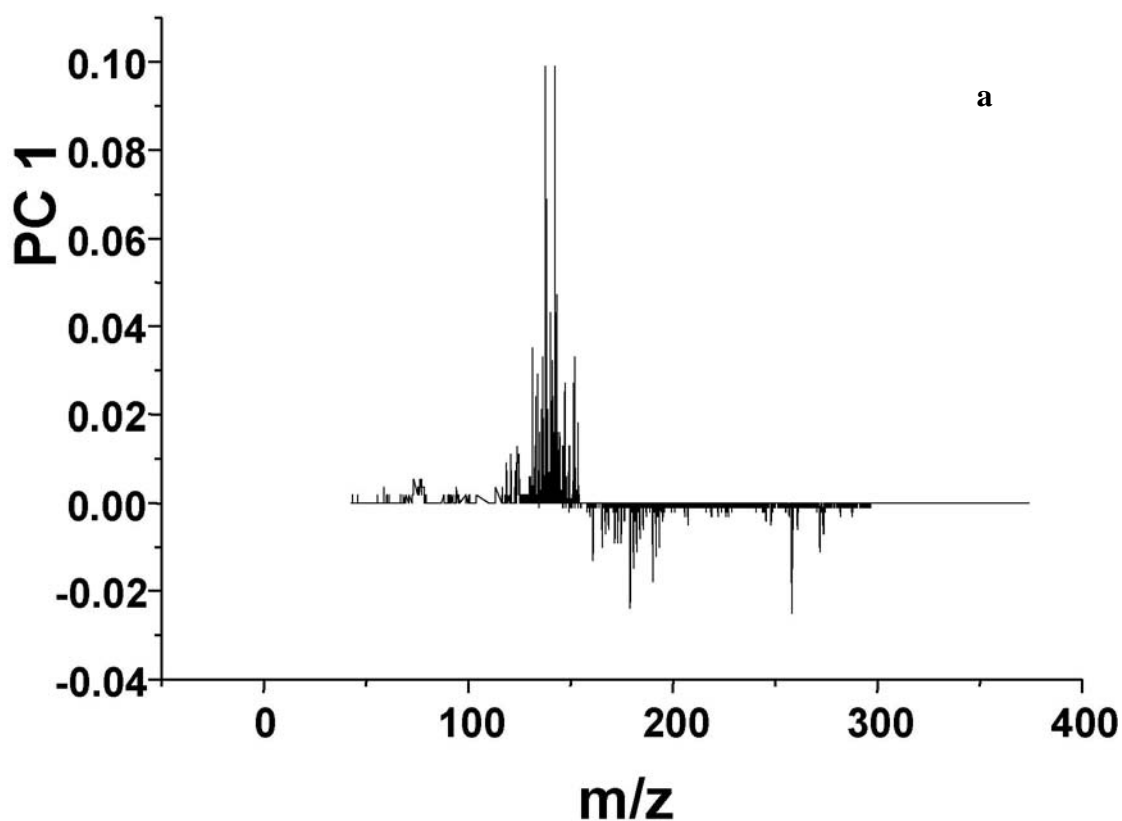
## Supporting Information

Huanwen Chen<sup>1,2</sup>, Yanping Sun<sup>3</sup>, Arno Wortmann<sup>1</sup>, Haiwei Gu<sup>3</sup>, and Renato Zenobi<sup>1\*</sup>

<sup>1</sup>Chemistry Department and Applied Biosciences, ETH Zurich, HCI E 329, CH-8093 Zürich, Switzerland

<sup>2</sup> College of Chemistry, Jilin University, Changchun, 130023 P. R. China

<sup>3</sup> Department of Chemistry, Purdue University, West Lafayette, IN 47907



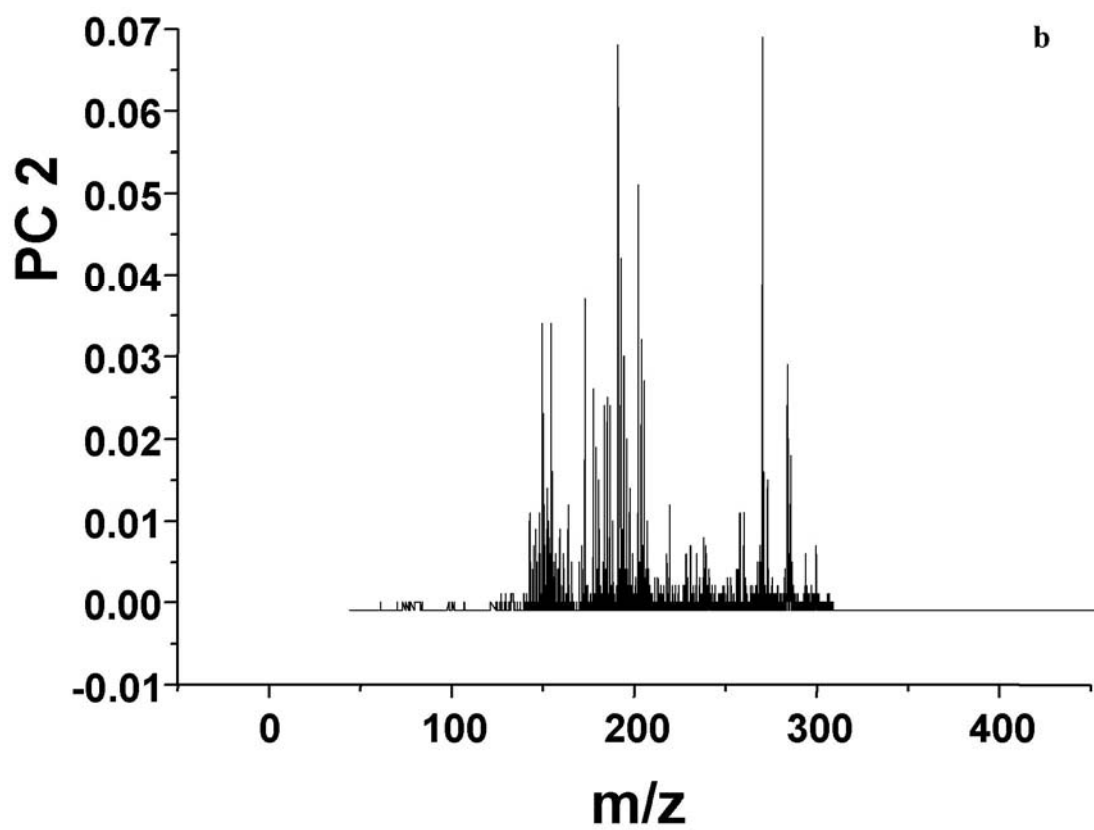


Figure S1 PCA loading results of EESI-QTOF-MS for grapes a) loading of PC1; b) loading of PC2.

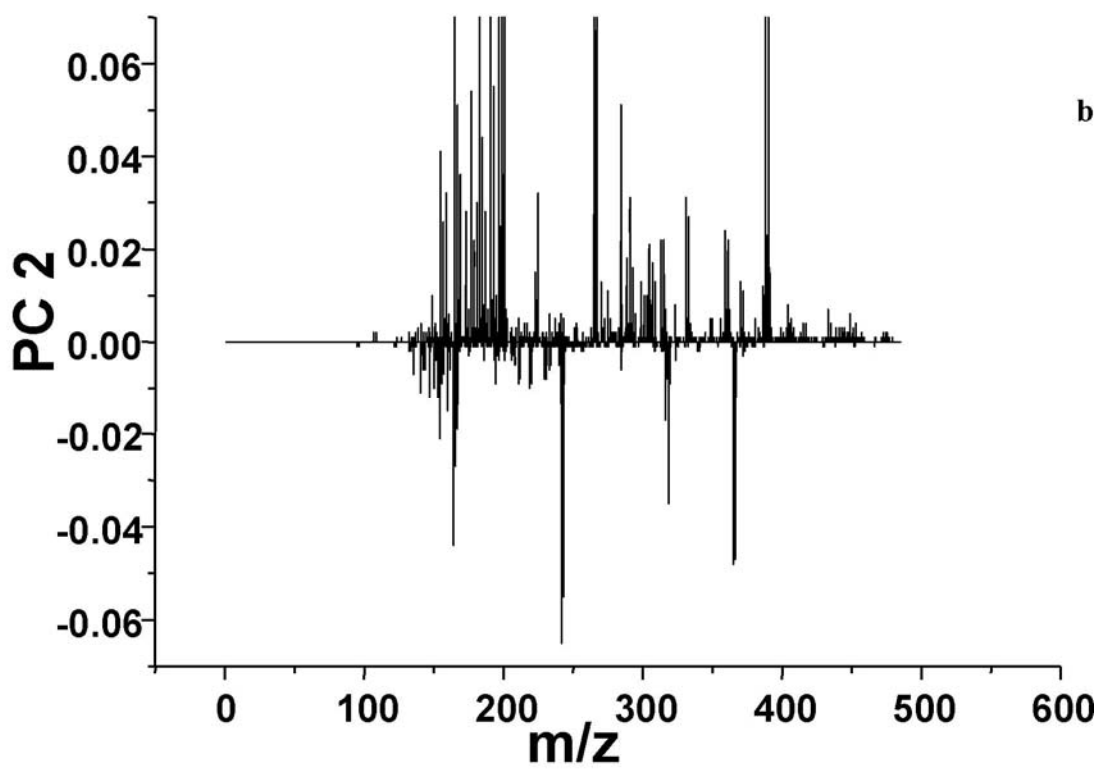
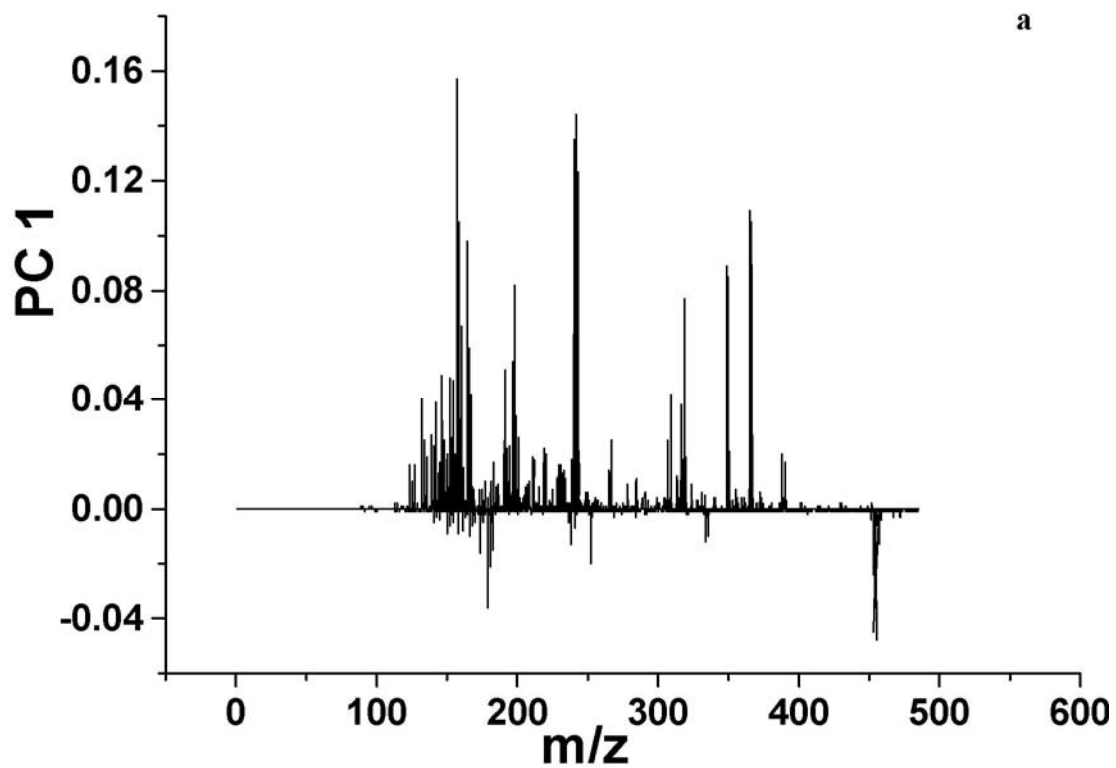
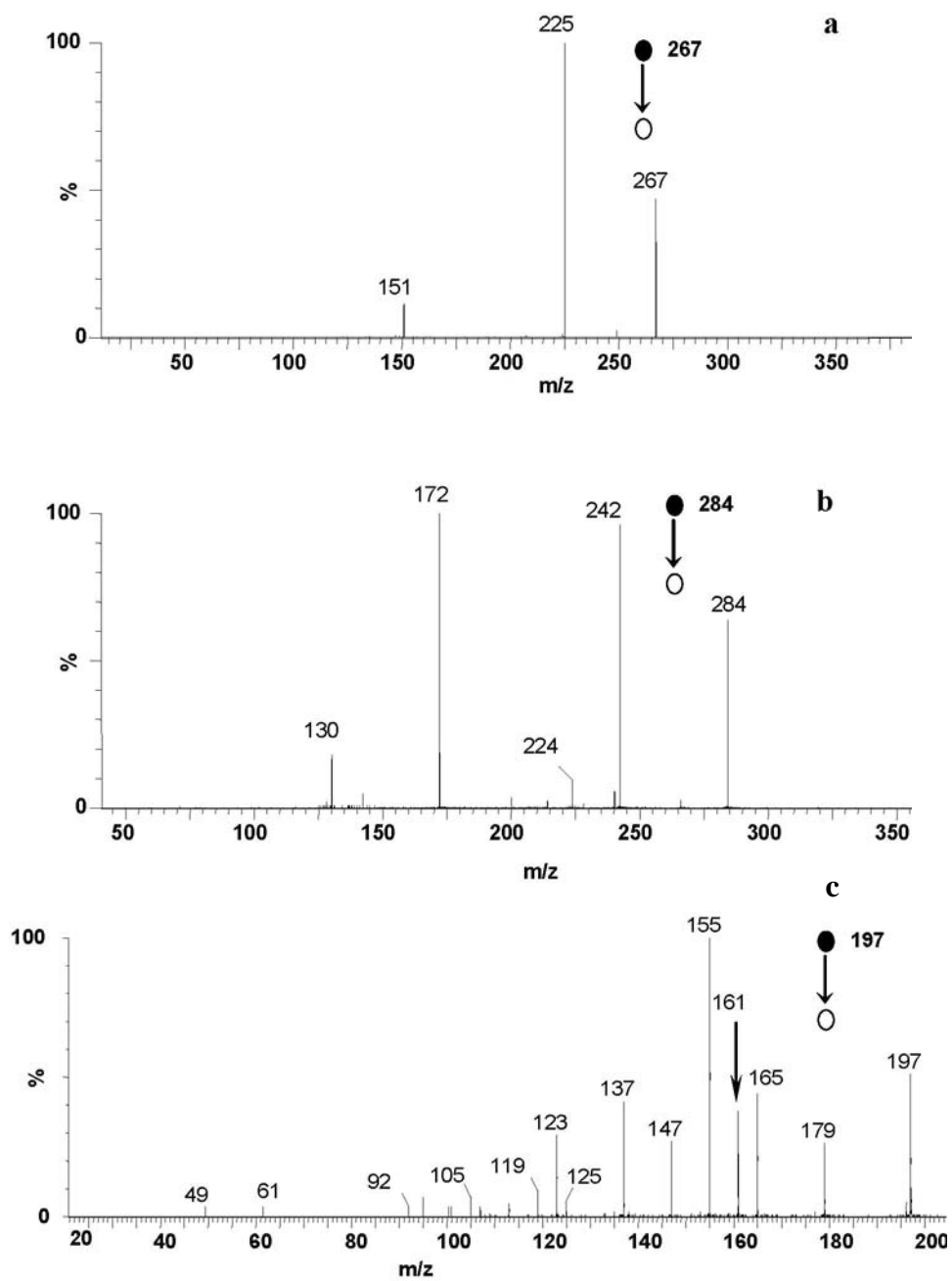


Figure S2 PCA loading results of EESI-QTOF-MS for strawberries. a) loading of PC1; b) loading of PC2.

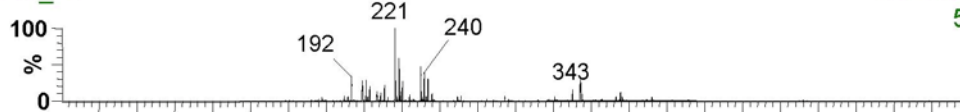


**Figure S3 Tandem mass spectra of EESI-MS peaks found in strawberries**

HAc, Ripe grapes

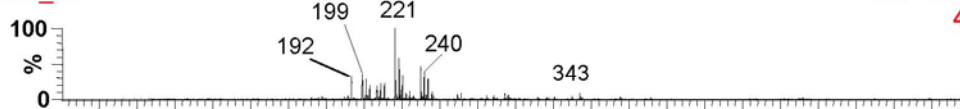
BN\_25

TOF MS ES+  
5.87e3



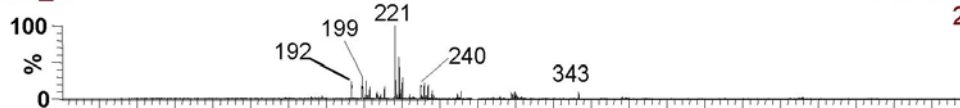
BN\_26

TOF MS ES+  
4.81e3



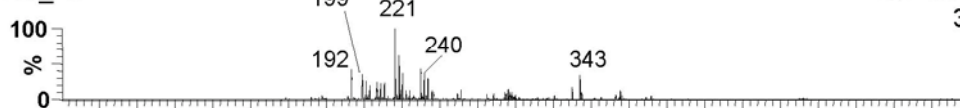
BN\_27

TOF MS ES+  
2.38e3



BN\_28

TOF MS ES+  
3.29e3



BN\_29

TOF MS ES+  
168

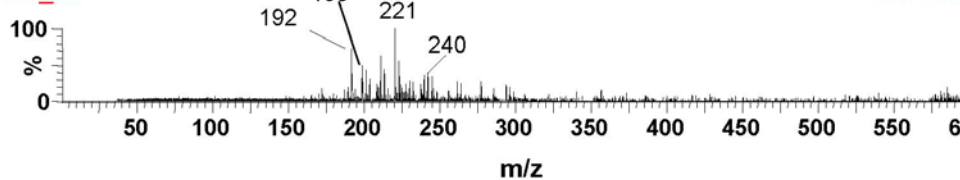
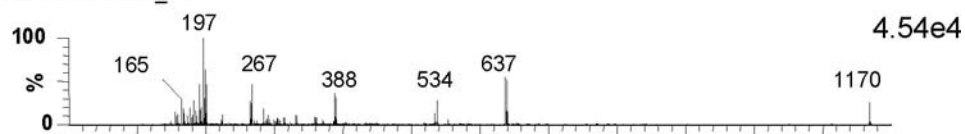


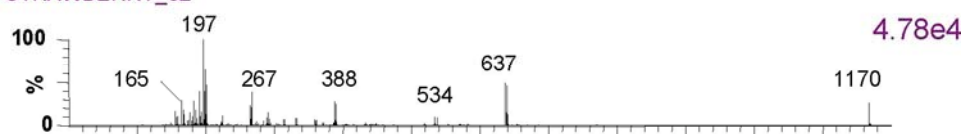
Figure S4 Reproducibility of EESI-QTOF-MS mass spectra obtained by multiple measurements on different individual grape of the same maturity

HAc, Green strawberries

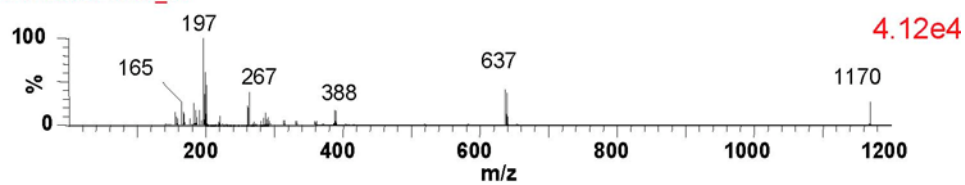
STRAWBERRY\_03



STRAWBERRY\_02



STRAWBERRY\_01



**Figure S5 Reproducibility of EESI-QTOF-MS mass spectra obtained by multiple measurements on different individual strawberries of the same maturity**