

Supporting Information for

Demonstrating the applicability of Proton Transfer Reaction Mass Spectrometry to quantify volatiles emitted by the mycoparasitic fungus *Trichoderma atroviride* in real time: monitoring of *Trichoderma*-based biopesticides

Running title: On-line biopesticide analysis using PTR-MS

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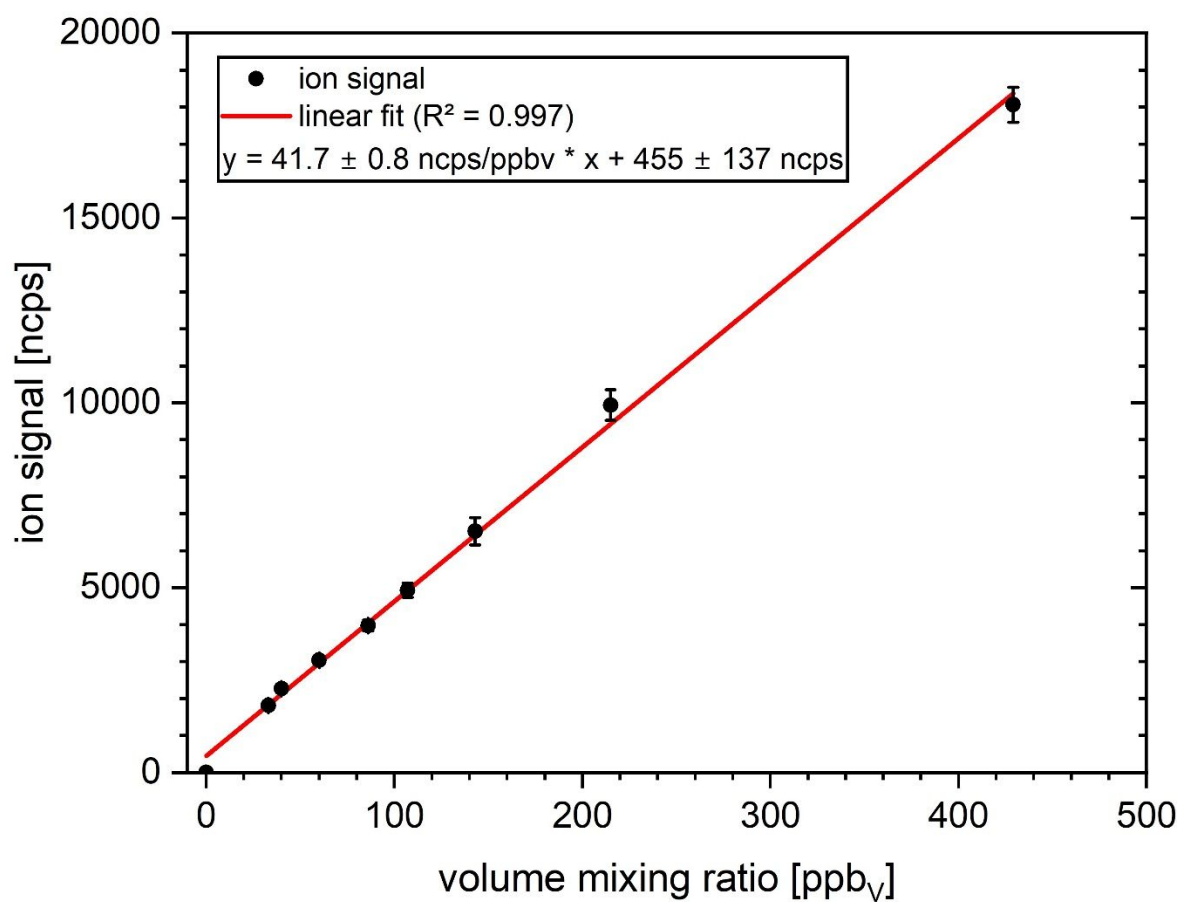


Figure S1: 8-point linear calibration curve used for the quantitative analysis of 6-PP emissions from *T. atroviride* cultures.

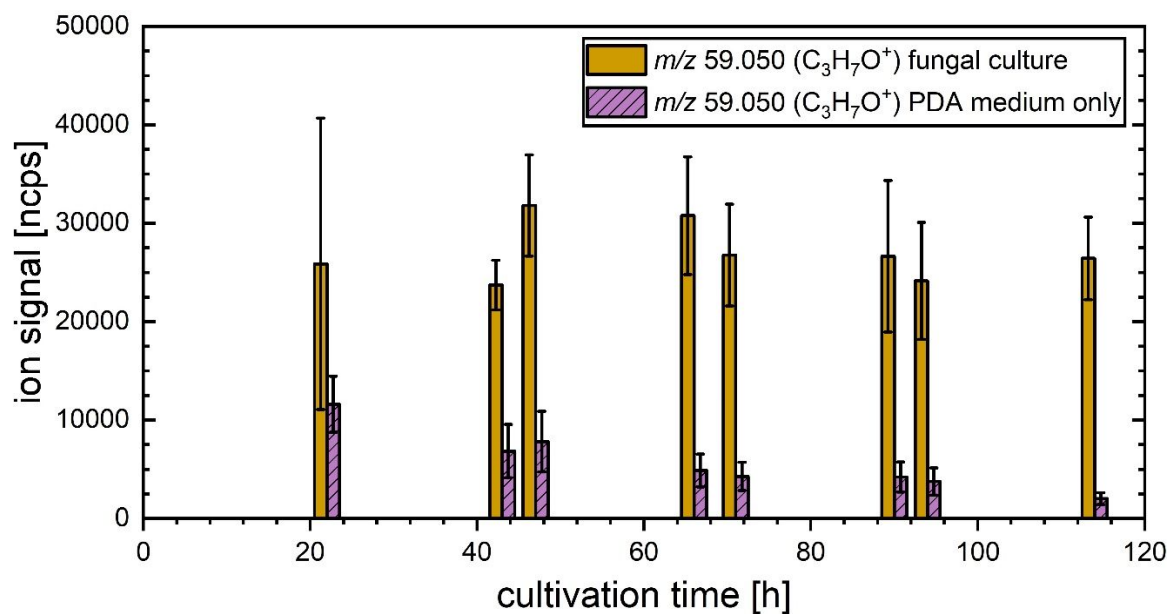


Figure S2: Changes in the product ion intensities at set measuring points for m/z 59.050 ion intensity arising from cultures of *T. atroviride* and samples of PDA medium only during the five-day cultivation period. The bar graph and error bars indicate the average value and standard deviation between four independent biological replicates, respectively.

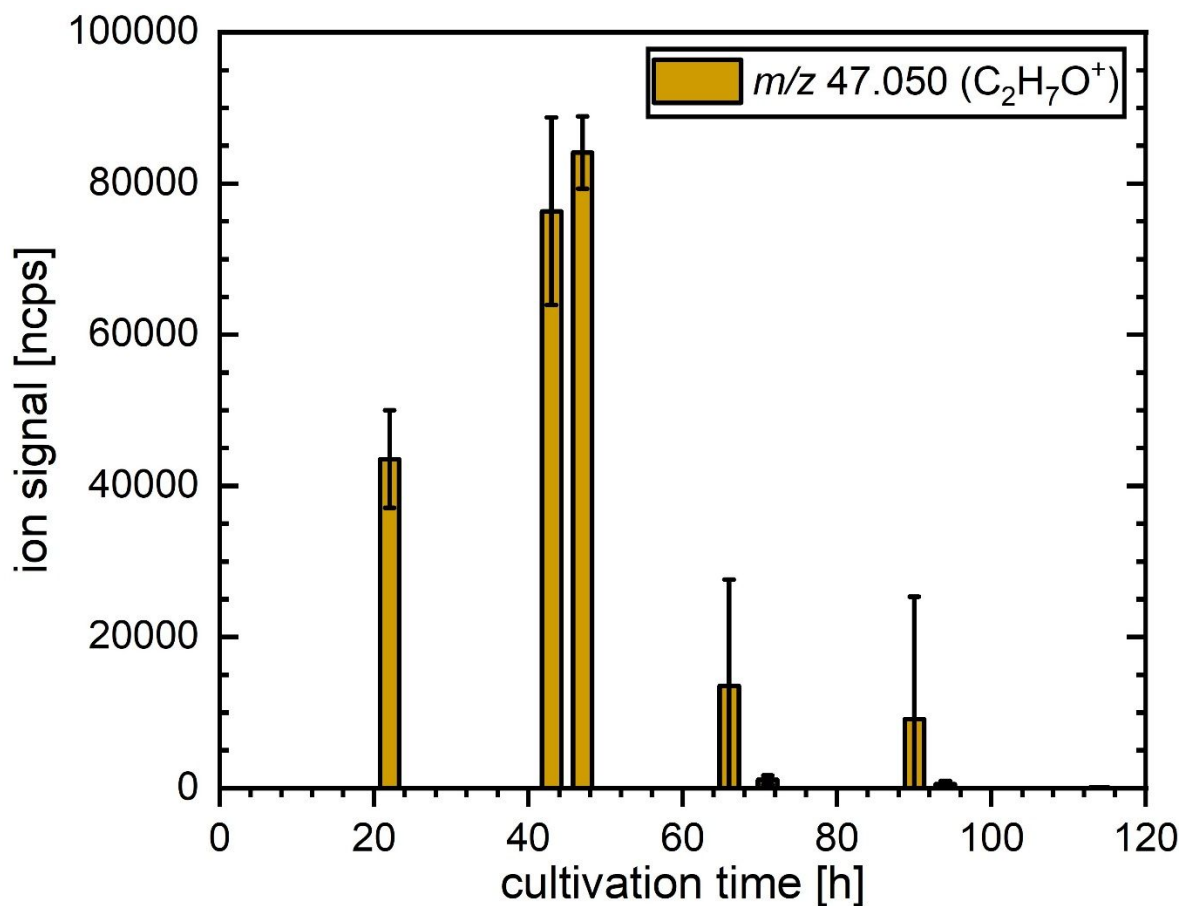


Figure S3: Changes in the product ion intensities at m/z 47.050 ion arising from volatile emissions from cultures of *T. atroviride* during the five-day cultivation period. The bar graph and error bars indicate the average value and standard deviation between four independent biological replicates, respectively.

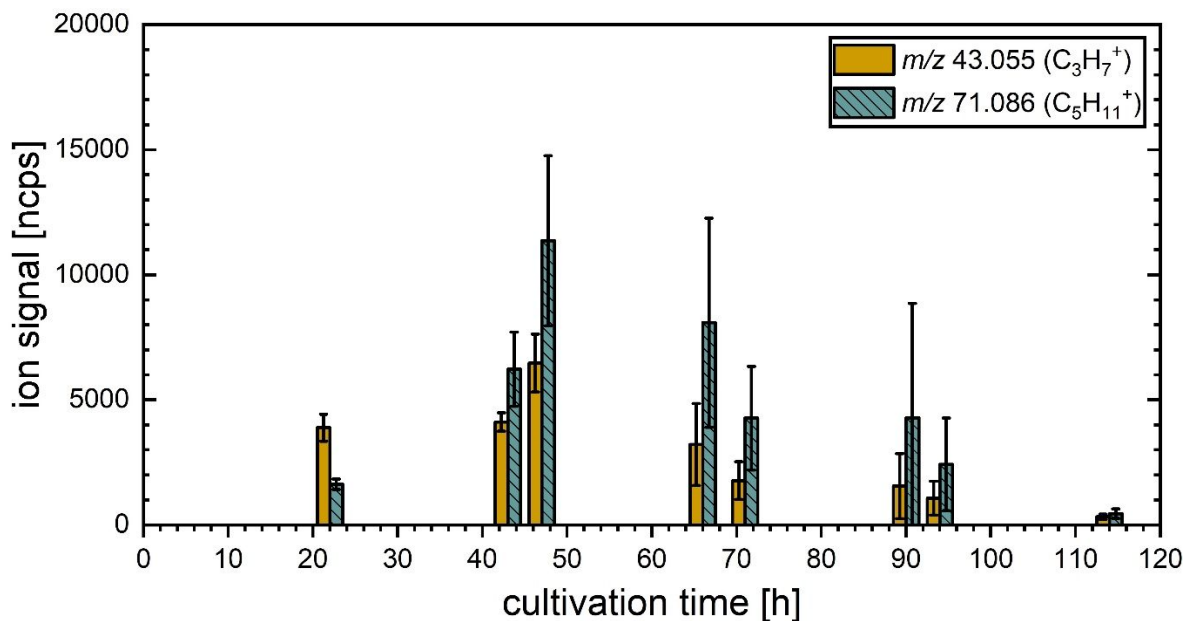


Figure S4: Changes in the product ion intensities at set measuring points for m/z 43.055 and 71.086 ion intensities arising from cultures of *T. atroviride* during the five-day cultivation period. The bar graph and error bars indicate the average value and standard deviation between four independent biological replicates, respectively.

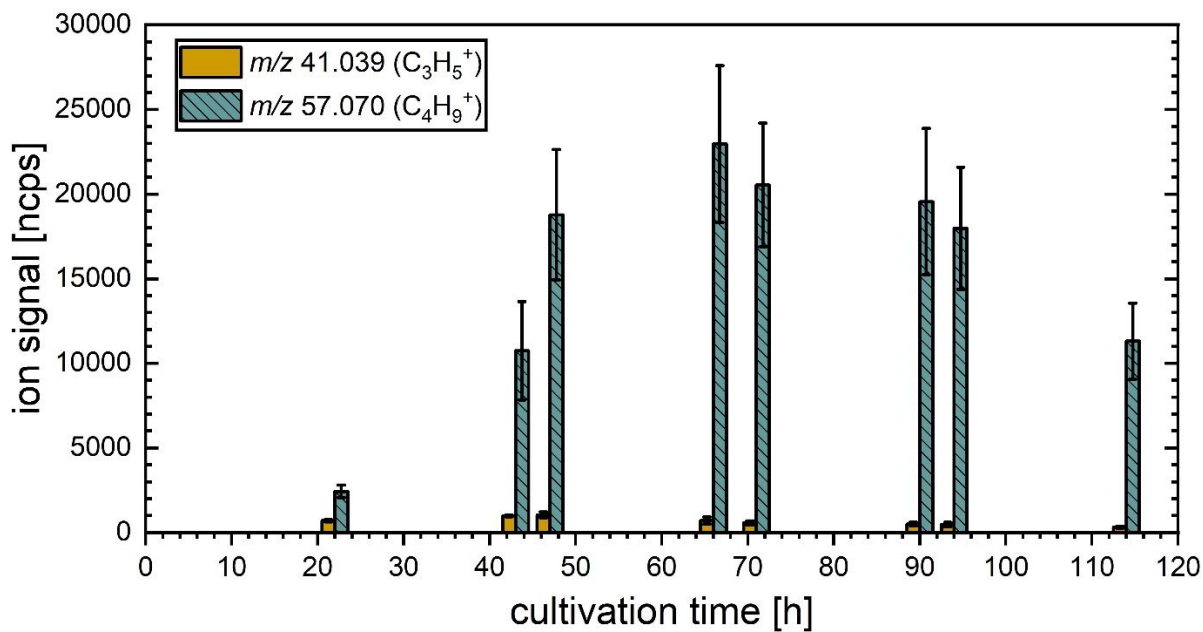


Figure S5: Changes in the product ion intensities at set measuring points for m/z 41.039 and 57.070 ion intensities arising from cultures of *T. atroviride* during the five-day cultivation period. The bar graph and error bars indicate the average value and standard deviation between four independent biological replicates, respectively.