

Supporting information file

Iodine biofortification of dandelion plants (*Taraxacum officinale* F.H. Wiggers coll.) with the use of inorganic and organiodine compounds

Iwona Ledwożyw-Smoleń^{1*}, Joanna Pitala², Sylwester Smoleń^{1,2}, Marta Liszka-Skoczylas³, Peter Kováčik⁴

¹ Faculty of Biotechnology and Horticulture, University of Agriculture in Kraków, al. Mickiewicza 21, 31-120 Kraków; sylwester.smolen@urk.edu.pl;

² Laboratory of Mass Spectrometry, University of Agriculture in Kraków, al. Mickiewicza 21, 31-120 Kraków; joanna.pitala@urk.edu.pl

³ Department of Engineering and Machinery for Food Industry, Faculty of Food Technology, University of Agriculture in Krakow, al. Mickiewicza 21, 31-120 Krakow, Poland; marta.liszka-skoczylas@urk.edu.pl

⁴ Department of Agrochemistry and Plant Nutrition, Institute of Agronomic Sciences, Faculty of Agrobiology and Food Resources, Slovak University of Agriculture in Nitra, Tr. A. Hlinku 2, 949 01 Nitra, Slovakia; peter.kovacik@uniag.sk

* Correspondence: iwona.ledwozyw-smolen@urk.edu.pl

Table S1 Precursor/product transitions of analytes at LC-MS/MS technique: salicylic acid (SA); 5-iodosalicylic acid (5-ISA); 3,5-diiodosalicylic acid (3,5-diISA) and jasmonic acid (JA)

Analyte	Precursor ion (m/z)	Product ion (m/z)	transition
Salicylic acid (SA)	136.8	93.1	quantifying
Salicylic acid (SA)	136.8	64.9	qualifying
5-iodosalicylic acid (5-ISA)	262.9	126.7	quantifying
5-iodosalicylic acid (5-ISA)	262.9	218.8	qualifying
3,5-diiodosalicylic acid (3,5-diISA)	388.8	126.7	quantifying
3,5-diiodosalicylic acid (3,5-diISA)	388.8	344.6	qualifying
Jasmonic acid (JA)	209.15	58.77	quantifying
Jasmonic acid (JA)	209.15	165.0	qualifying

Figure S1. The 5-ISA calibration curve and 5-ISA standard peaks at 1, 5, 10, 50 and 100 ng 5-ISA · ml⁻¹.

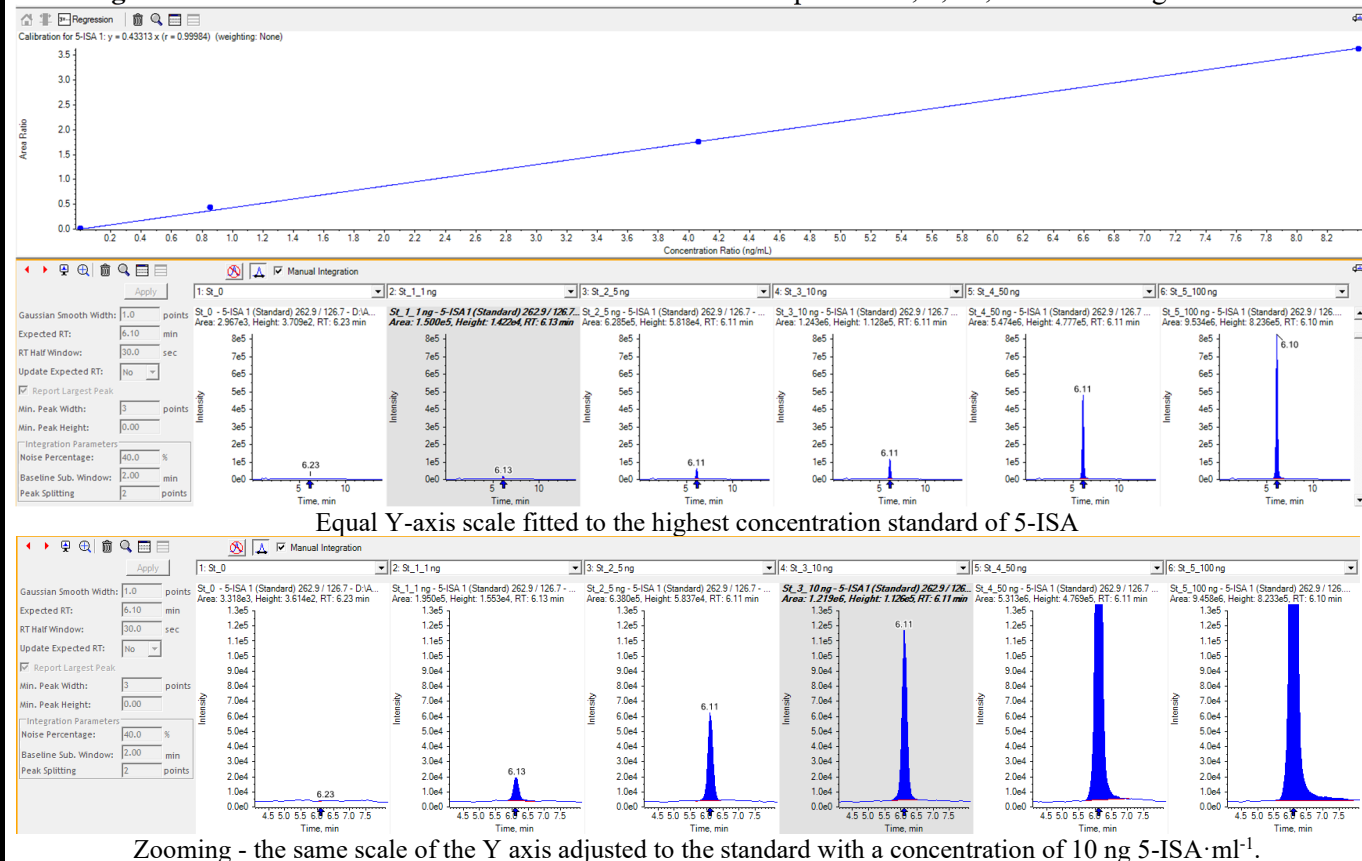


Figure S2. The 3,5-diISA calibration curve and 3,5-diISA standard peaks at 1, 5, 10, 50 and 100 ng 3,5-diISA · ml⁻¹.

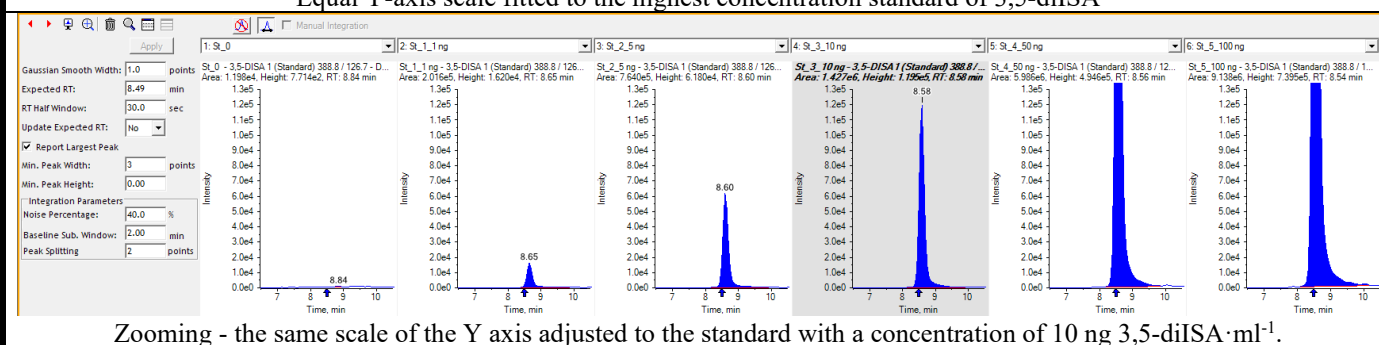
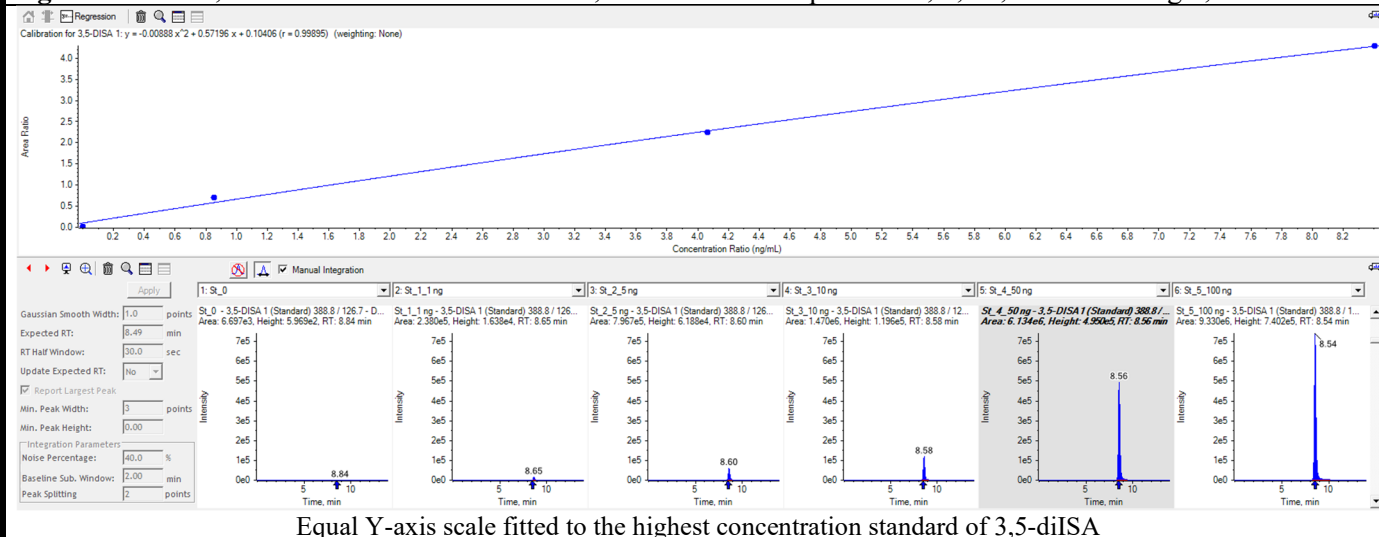
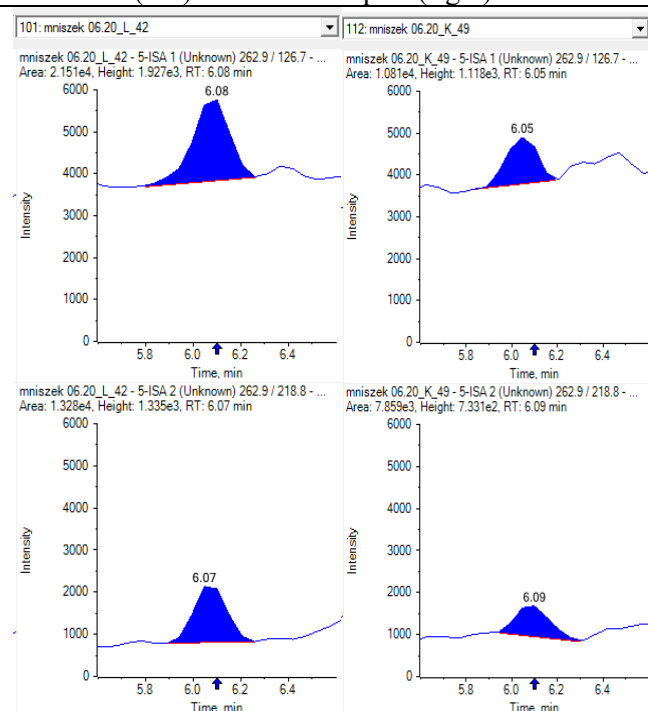


Figure S3. Identification example by pairs of MRM and retention time:
for 5-ISA

Below:

first row - 1 pair of quantitative MRM (262.9/126.7);
second row - 2 MRM pair - qualitative (262.9/218.8)
for leaves (left) and roots samples (right)



for 3,5-diISA

Below:

first row - 1 pair of quantitative MRM (388.8/126.7);
second row - 2 MRM pair - qualitative (388.8/344.6)
for leaves (left) and roots samples (right)

