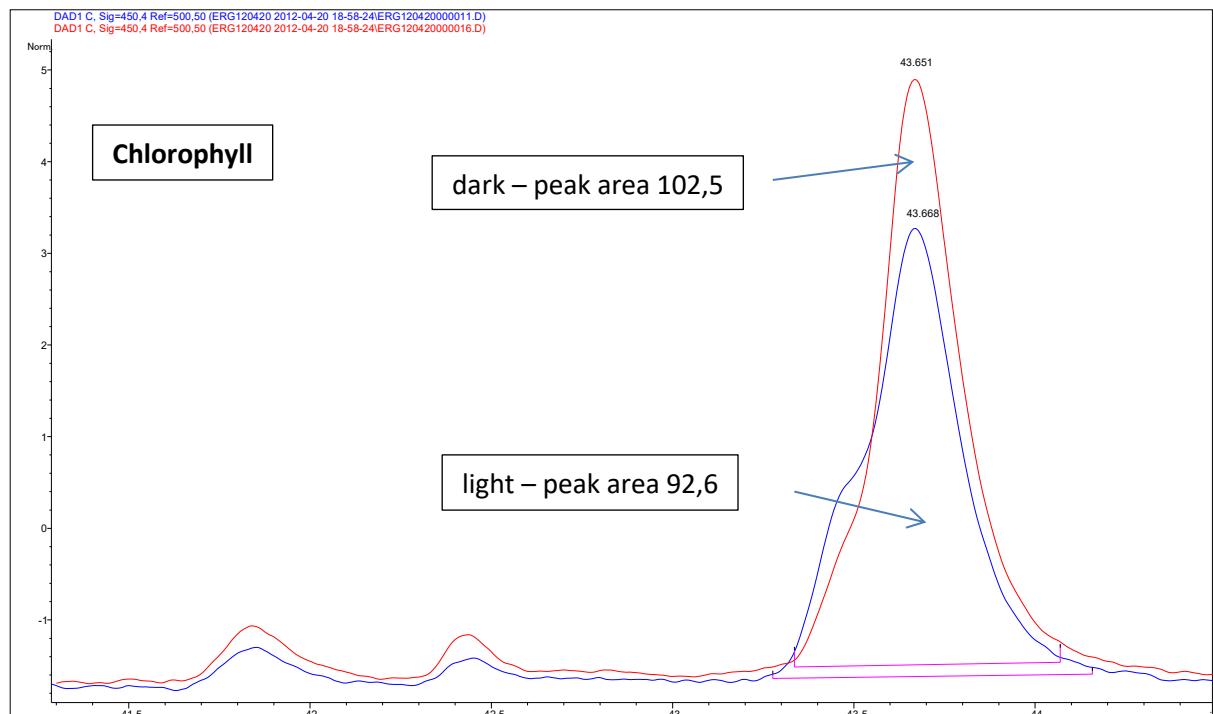


Influence of light on compounds content in *Tradescantia pallida*

Anthocyanines – detector 535nm

Chlorophyll – detector 450 nm



cultivation	Anthocyanine - peak areas – fresh material
light	44.7
dark	99.9

cultivation	Chlorophyll - peak areas – fresh material
light	92.6
dark	102.5

TASK:

- 1) Calculate the relative concentration of anthocyanins and chlorophyll in dry mass and expressed it graphically.
- 2) Calculate the % of water content

Water content is the basic analytical value of the composition of plant tissues. It is carried out by drying the plant or its parts at a temperature of 105 ° C to constant weight. The basis is to determine the weight loss that corresponds to the water content. The rest is dry matter composed of organic and inorganic substances.

$$\% \text{ of water content} = (1 - \frac{\text{weight of dry material}}{\text{weight of fresh material}}) \times 100$$

plant	cultivation	weight of fresh material	weight of dry material	% of Water content	anthocyanin	anthocyanin (0.1 g)	chlorophyll	chlorophyll (0.1 g)
Tradescantia pallida	Light	5,857	0,274	95,3	44,7	16,31	92,60	33,80
Tradescantia pallida	Dark	3,729	0,484	87	9,9	2,05	102,5	21,18

Relative concentration of anthocyanins and chlorophyll in dry mass

