

Accepted Manuscript

Title: Quantitative optical analysis of component content in multivariate mixture solution

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PII: S0030-4026(18)31189-6
DOI: <https://doi.org/10.1016/j.ijleo.2018.08.068>
Reference: IJLEO 61365

To appear in:

Received date: 14-6-2018
Accepted date: 16-8-2018

Please cite this article as: Wang Q, Hu X, Li D, Kadhim Hussein A, Qi H, Wu G, Quantitative optical analysis of component content in multivariate mixture solution, *Optik* (2018), <https://doi.org/10.1016/j.ijleo.2018.08.068>

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Quantitative optical analysis of component content in multivariate mixture solution

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ABSTRACT

The partial least square method (PLS) was introduced to quantitatively analyze component content of multivariate mixture by using ultraviolet-visible spectroscopy.

Two models were built to establish component content of multivariate mixture based on the transmittance spectra of multivariate mixture, which is the full band PLS model and the feature band iPLS model, respectively. The comparative study of the models was carried out with ethanol solution as the research object and the samples were

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