

Accepted Manuscript

Title: Development of a novel graphene/polyaniline electrodeposited coating for on-line in-tube solid phase microextraction of aldehydes in human exhaled breath condensate

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PII: S0021-9673(15)00468-9
DOI: <http://dx.doi.org/doi:10.1016/j.chroma.2015.03.058>
Reference: CHROMA 356391

To appear in: *Journal of Chromatography A*

Received date: 2-2-2015
Revised date: 21-3-2015
Accepted date: 23-3-2015

Please cite this article as: Y. Li, H. Xu, Development of a novel graphene/polyaniline electrodeposited coating for on-line in-tube solid phase microextraction of aldehydes in human exhaled breath condensate, *Journal of Chromatography A* (2015), <http://dx.doi.org/10.1016/j.chroma.2015.03.058>

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Highlights

3 ◆ A G/PANI coating-based on-line IT-SPME method was developed for breath analysis.

4 ◆ The coating exhibited excellent stability, lifespan, extraction capacity and selectivity.

5 ◆ Good results were obtained for sensitivity, precision, accuracy and matrix effect.

6 ◆ The proposed breath analysis method is automatic and non-invasive.

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