Supporting Information for

Graphene/polyaniline electrodeposited needle trap device for the determination of volatile organic compounds in human exhaled breath vapor and A549 cell

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Figure S1. FTIR spectra of graphene and the electrodeposited G/PANI coating.

Figure S2. Selection of desorption conditions. (A) Desorption time, (B) Desorption temperature. Standard aldehydes solution: 2 μg L⁻¹.
Figure S3. GC-MS-SIM Chromatograms of VOCs in EBV samples of lung cancer patient extracted by two sorbents (A: PA SPME fiber, B: G/PANI needle).