

Supplementary Information for:

Optimization and validation of two-step method for determination of polybrominated diphenyl ethers in Croatian house dust samples

Karla Jagić^{1, a}, Marija Dvorščak^{1, *}, Andreja Jurič², Toni Safner³, Darija Klinčić^{1, a}

*corresponding author (mdvorscak@imi.hr) Biochemistry and Organic Analytical Chemistry Unit, Institute for Medical Research and Occupational Health, Ksaverska c. 2, HR-10001 Zagreb, Croatia

Table S1. Quantitative factors set-up for MAE optimization using full factorial design (each run was repeated with *n*-hexane:acetone (1:1, v/v) and *n*-hexane:ultrapure water (10:1, v/v) as solvents)

Experiment	Temperature / °C	Solvent volume / mL	Extraction time / min
1	100	30	12,5
2	80	40	5
3	80	40	5
4	80	20	20
5	100	30	12.5
6	80	20	5
7	120	20	5
8	120	40	5
9	120	40	20
10	100	30	12.5
11	120	20	5
12	100	30	12.5
13	80	40	20
14	120	20	20
15	80	20	20
16	120	40	5
17	80	40	20
18	80	20	5
19	120	40	20
20	120	20	20

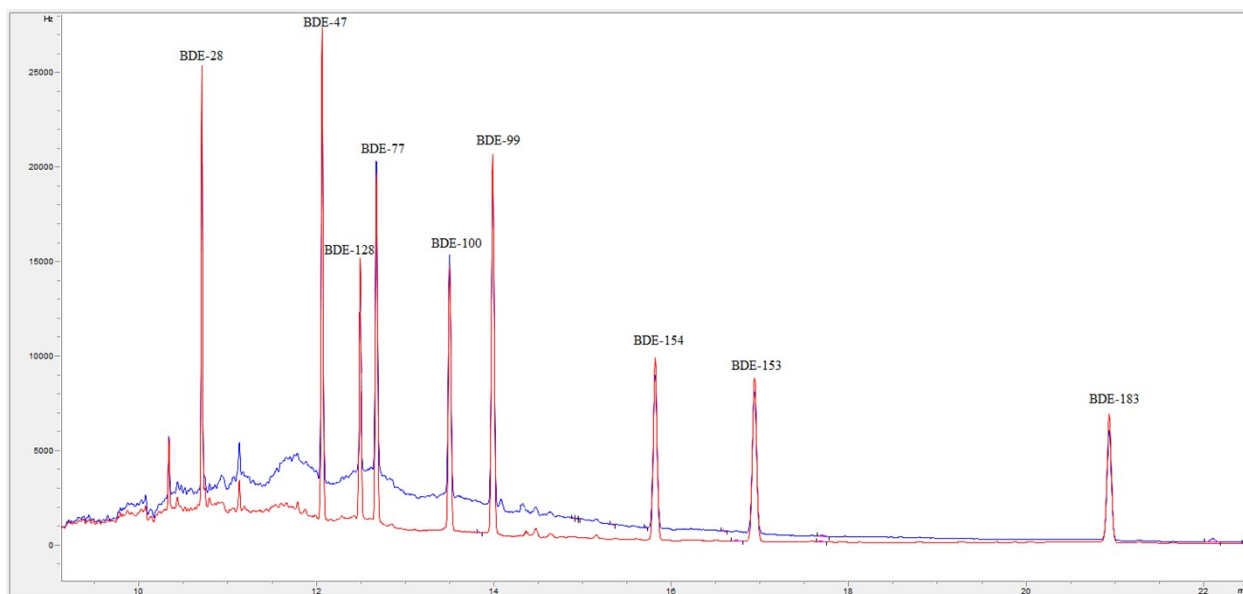


Figure S1. GC-ECD chromatogram of house dust samples with PBDEs added at concentrations of 50 ng mL⁻¹ into dust extract prior the clean-up on SPE columns SA2 (red) and SAB2 (blue)