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Halogenated flame retardants in tree samples applied as bioindicators for atmospheric pollution

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1 **Halogenated flame retardants in tree samples applied as bioindicators for**
2 **atmospheric pollution**

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17 **Abstract**

18 Coniferous shoots and deciduous tree leaf samples from 10 sites in Germany were taken in 2015 or
19 2016 within the German Environmental Specimen Bank sampling program and analysed for 24
20 polybrominated biphenyl ethers (PBDEs) and 19 additional halogenated flame retardants (HFRs). At
21 one site, additional historic samples dating back till 2003 were also investigated. Samples were
22 Soxhlet-extracted, cleaned-up by a non-destructive multi-step procedure involving gel permeation

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