

1 **ELECTRONIC SUPPLEMENTARY INFORMATION**

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3 **Online isotope analysis of $^{37}\text{Cl}/^{35}\text{Cl}$ universally applied for**
4 **semi-volatile organic compounds using GC-MC-ICPMS**

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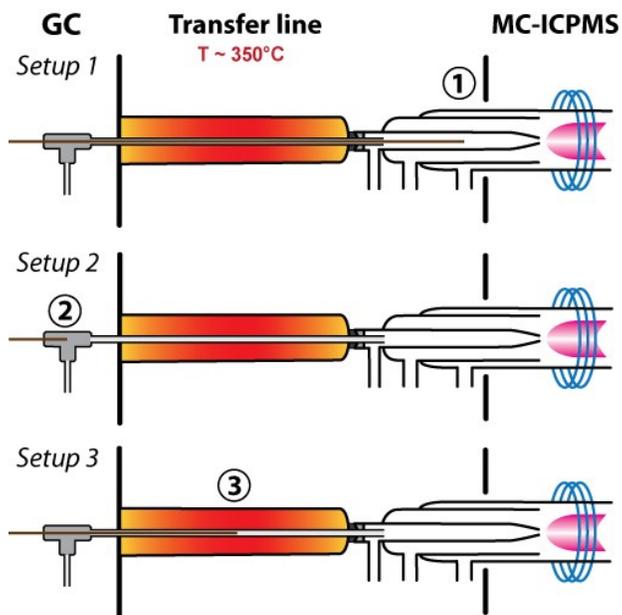
12 Figure S-2: Memory test for semi-volatiles of high boiling point

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14 Figure S-4: Chromatogram of a TCAA-ME, δ -HCH and CD mixture

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16 **Transfer line setup**



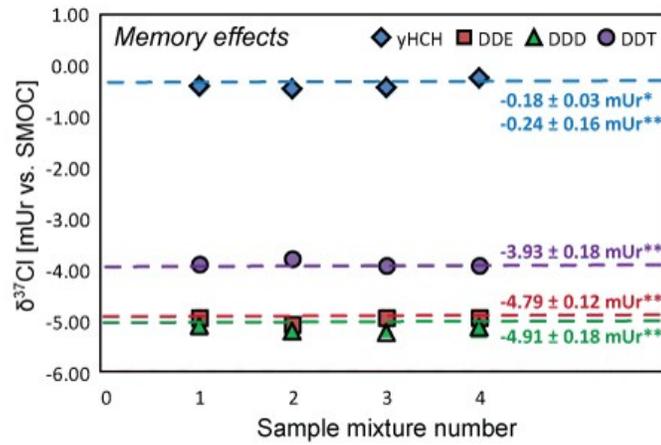
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18 **Figure S-1: Position of the capillary within the GC-MC-ICPMS setup. During evaluation the GC capillary**
19 **was ending (1) within the ICP torch, (2) within the GC in a T-splitter or (3) within the hottest zone of the**
20 **transfer line (utilized construction).**

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23 **Memory effects**



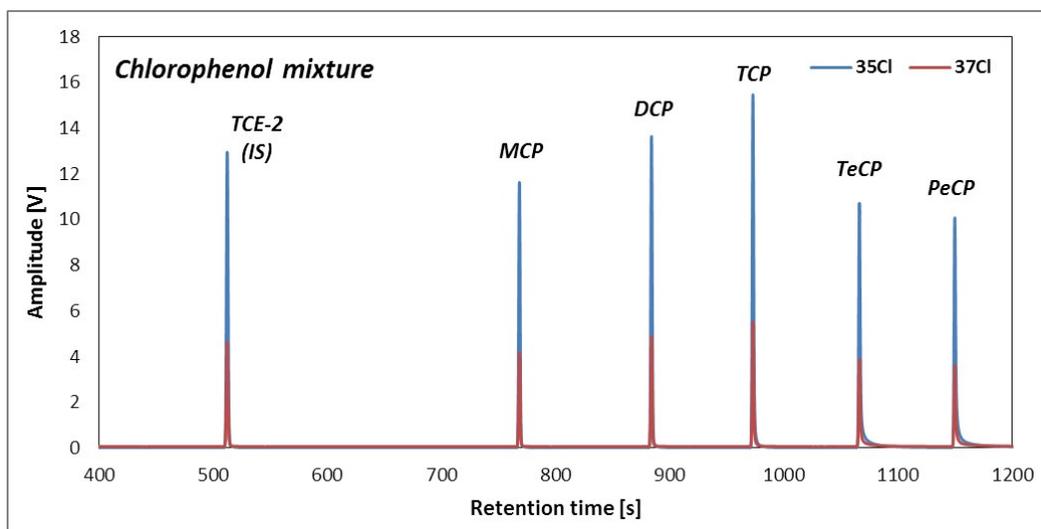
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25 **Figure S-2: Memory test for semi-volatiles of high boiling point, including $\gamma\text{-HCH}$, p,p'-DDE, p,p'-DDD**
26 **and 4,4'-DDT. *offline value determined with DI-IRMS, **online value determined for single compound**
27 **analysis with GC-MC-ICPMS.**

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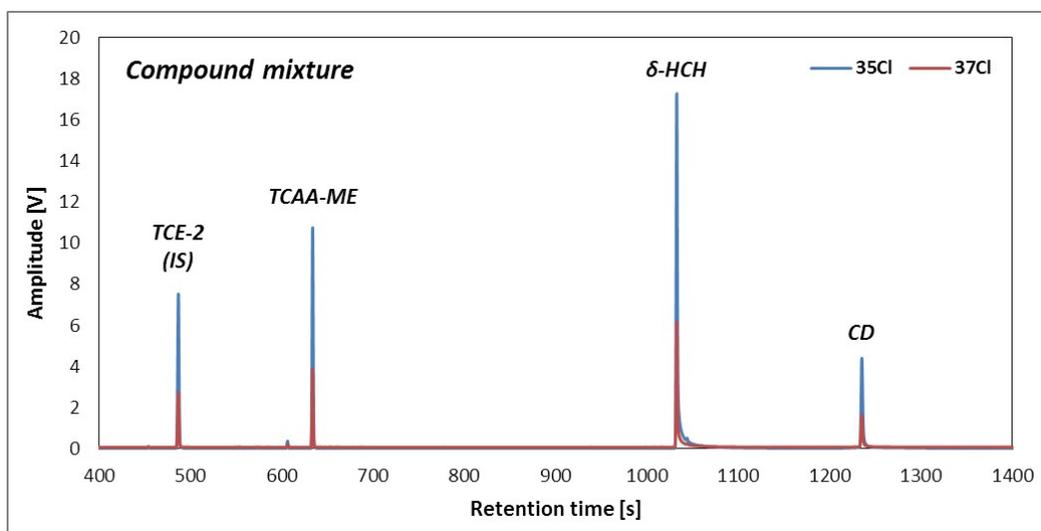
30 **Compound-specific analysis of mixtures**



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32 **Figure S-3:** Chromatogram of a chlorophenol mixture, containing TCE-2 internal standard as isotopic reference
33 peak.

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36 **Figure S-4:** Chromatogram of a TCAA-ME, δ -HCH and CD mixture, containing TCE-2 internal standard as
37 isotopic reference peak.

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