

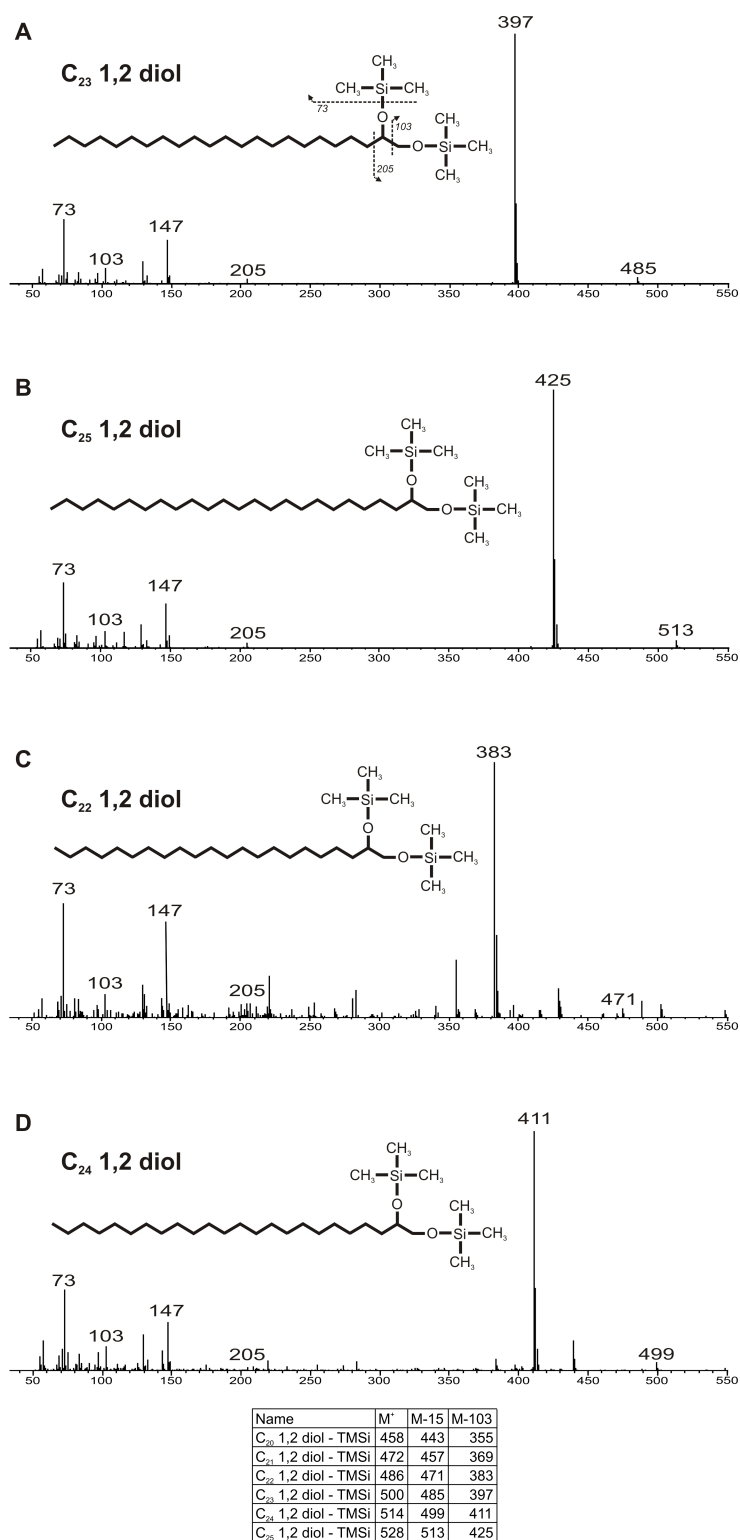
**Sedimentary lipid biomarkers in the magnesium rich and highly alkaline Lake Salda
(south-western Anatolia)**

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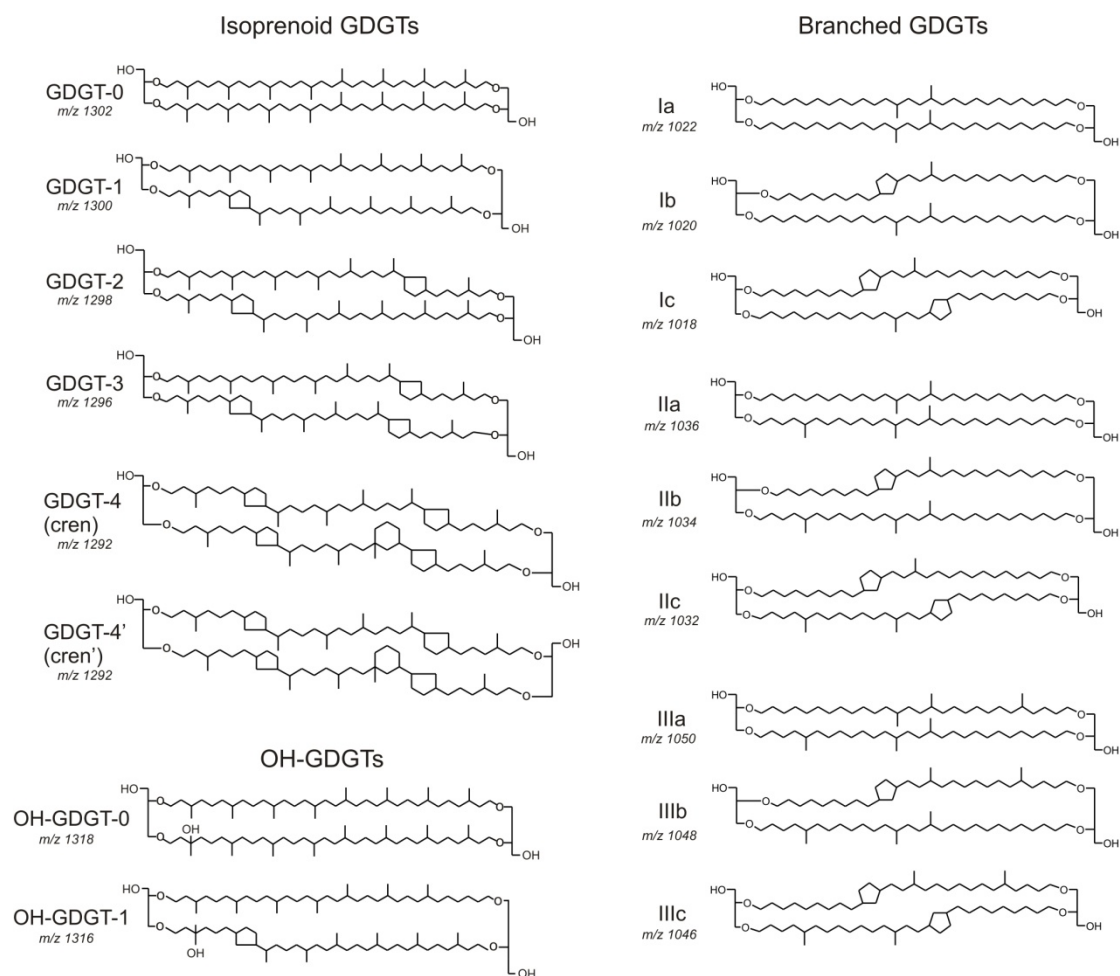
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Supplementary Fig. 1. Mass spectra of C₂₃ 1,2 diol (a) and C₂₅ 1,2 diol (b), and tentatively identified C₂₂ 1,2 diol (c) and C₂₄ 1,2 diol (d) TMSi derivatives. Major fragmentations are shown in (a). All TMSi derivatives have common fragments with m/z 73 [(CH₃)₃Si]⁺, m/z 103 [CH₂O(CH₃)₃Si]⁺, m/z 147 [(CH₃)₃SiOSi(CH₃)₂]⁺, which is characteristics for diols, and m/z 205 [CH(CH₃)₃SiOCH₂OSi(CH₃)₃]⁺ caused by α-fragmentation of 1,2 diols.



Supplementary Fig. 2. Molecular structures and m/z diagnostic values $[M+H]^+$ of the detected GDGTs. See Liu *et al.* (2012b) for a detailed approach on the molecular structures of glycerol ether lipids.