

## Supplementary Materials

# *Lepidium graminifolium* L.: Glucosinolate Profile and Antiproliferative Potential of Volatile Isolates

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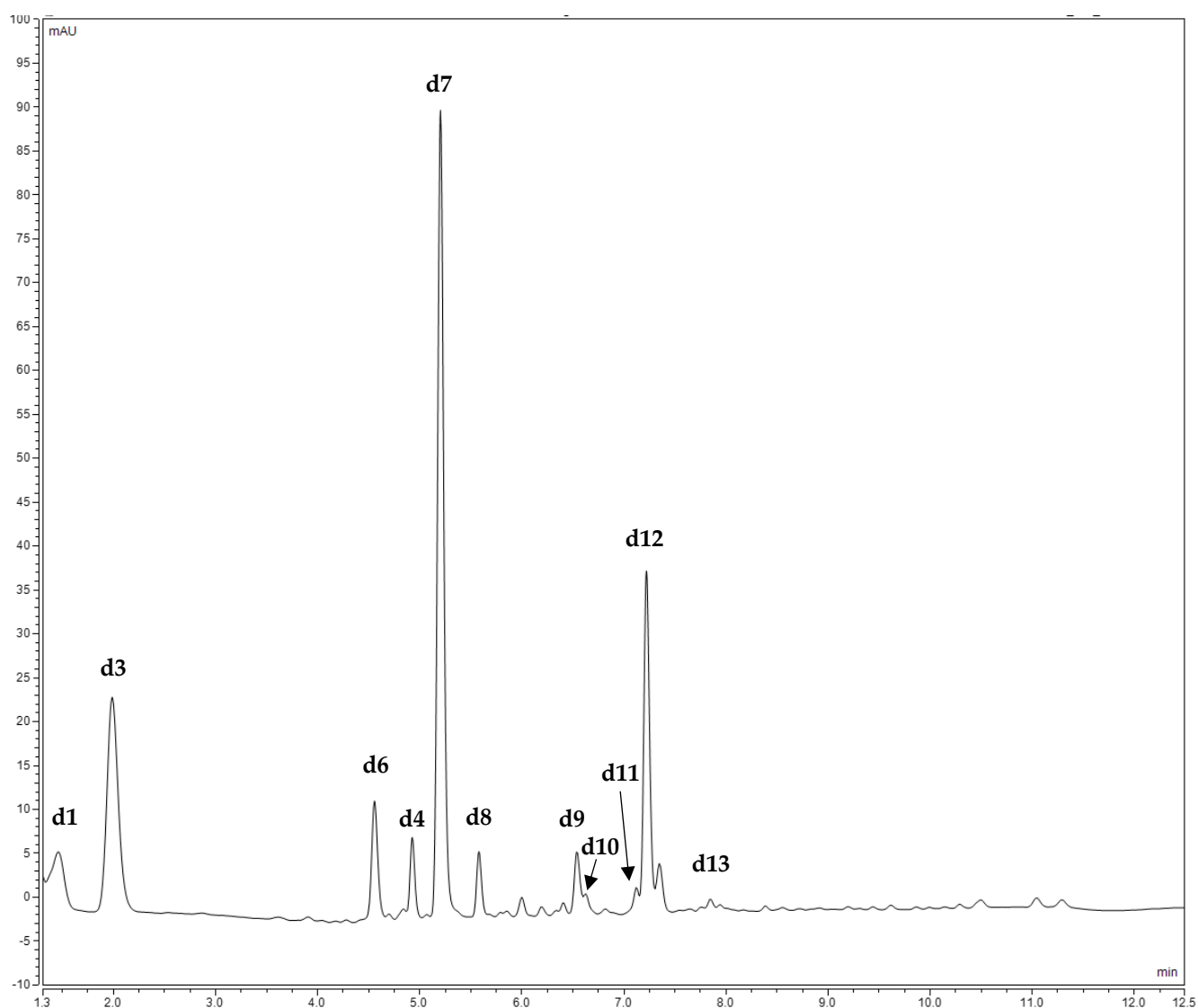
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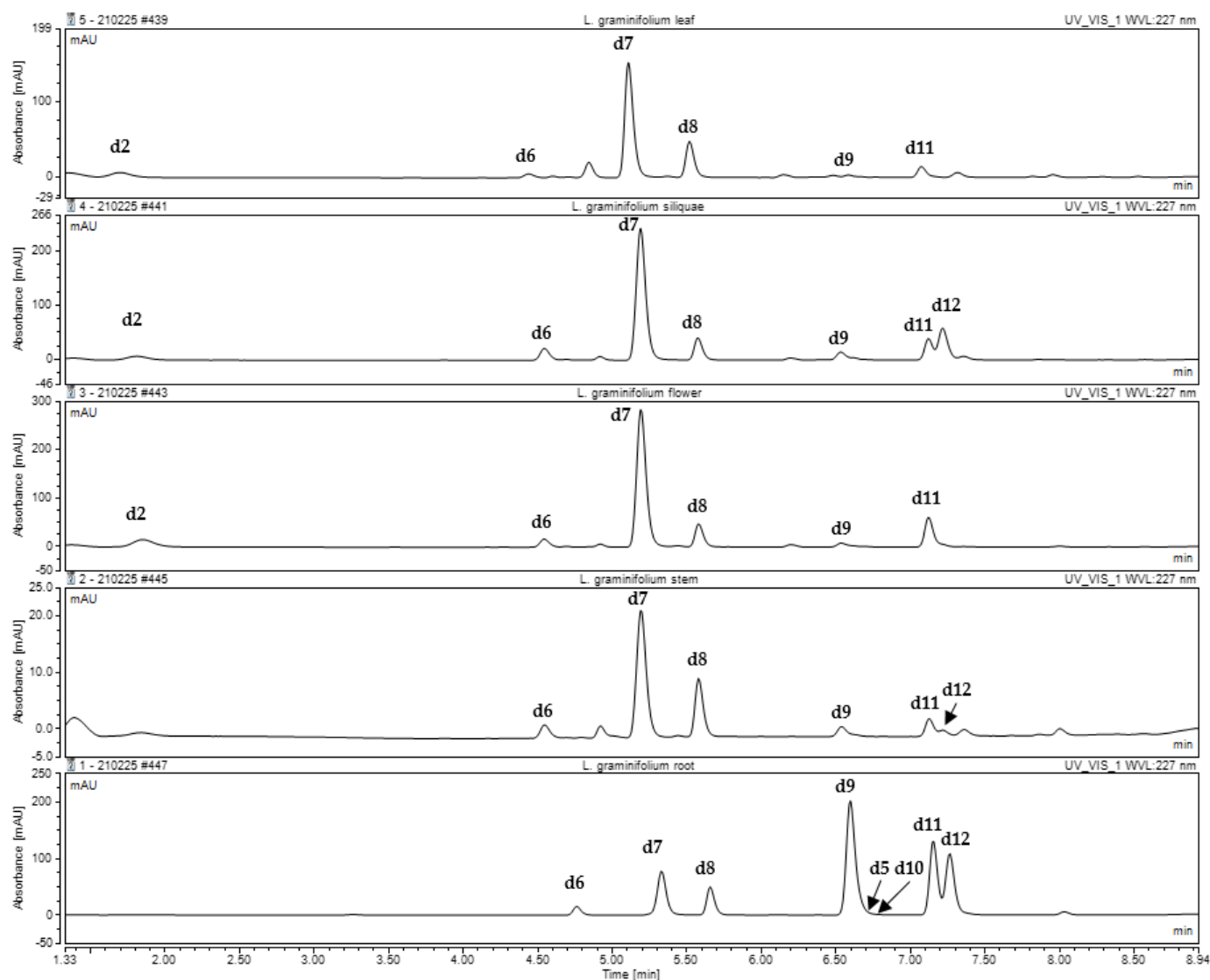
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**Figure S1.** Chromatogram of desulfo-GSLs obtained from the aerial parts of *L. graminifolium* from Rab Island:

**d1** - (2*R*)-Hydroxybut-3-enyl GSL (progoitrin), **d3** - (2*S*)-Hydroxybut-3-enyl GSL (epiprogoitrin), **d4** - But-3-enyl GSL (gluconapin), **d6** - 4-Hydroxybenzyl GSL (glucosinalbin), **d7** - 3-Hydroxybenzyl GSL (glucolepigramin), **d8** - 4-Hydroxy-3,5-dimethoxybenzyl GSL (3,5-dimethoxysinalbin), **d9** - Benzyl GSL (glucotropaeolin), **d10** - 3,4-Dimethoxybenzyl GSL, **d11** - 3,4,5-Trimethoxybenzyl GSL, **d12** - 3-Methoxybenzyl GSL (glucolimnanthin), **d13** - 2-Phenylethyl GSL (gluconasturtiin).



**Figure S2.** Chromatogram of desulfo-GSLs obtained from the leaf, siliquae, flower, stem and root of *L. graminifolium* from Split: **d2** - (2S)-Hydroxybut-3-enyl GSL (glucoraphanin), **d5** - 4-(Methylsulfanyl)butyl GSL (glucoerucin), **d6** - 4-Hydroxybenzyl GSL (glucosinalbin), **d7** - 3-Hydroxybenzyl GSL (glucolepigramin), **d8** - 4-Hydroxy-3,5-dimethoxybenzyl GSL (3,5-dimethoxysinalbin), **d9** - Benzyl GSL (glucotropaeolin), **d10** - 3,4-Dimethoxybenzyl GSL, **d11** - 3,4,5-Trimethoxybenzyl GSL, **d12** - 3-Methoxybenzyl GSL (glucolimnanthin).

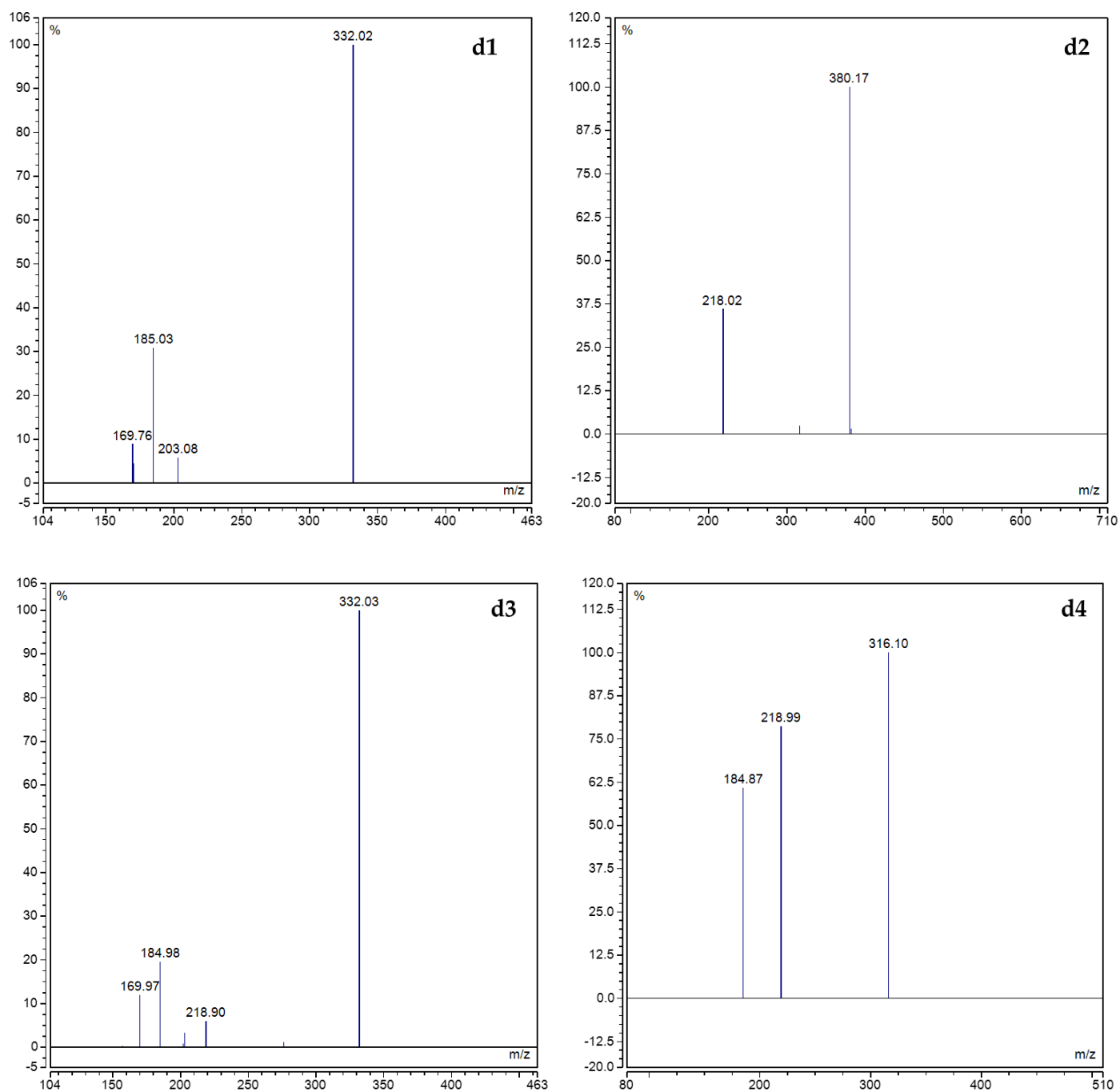


Figure S3. Continuous

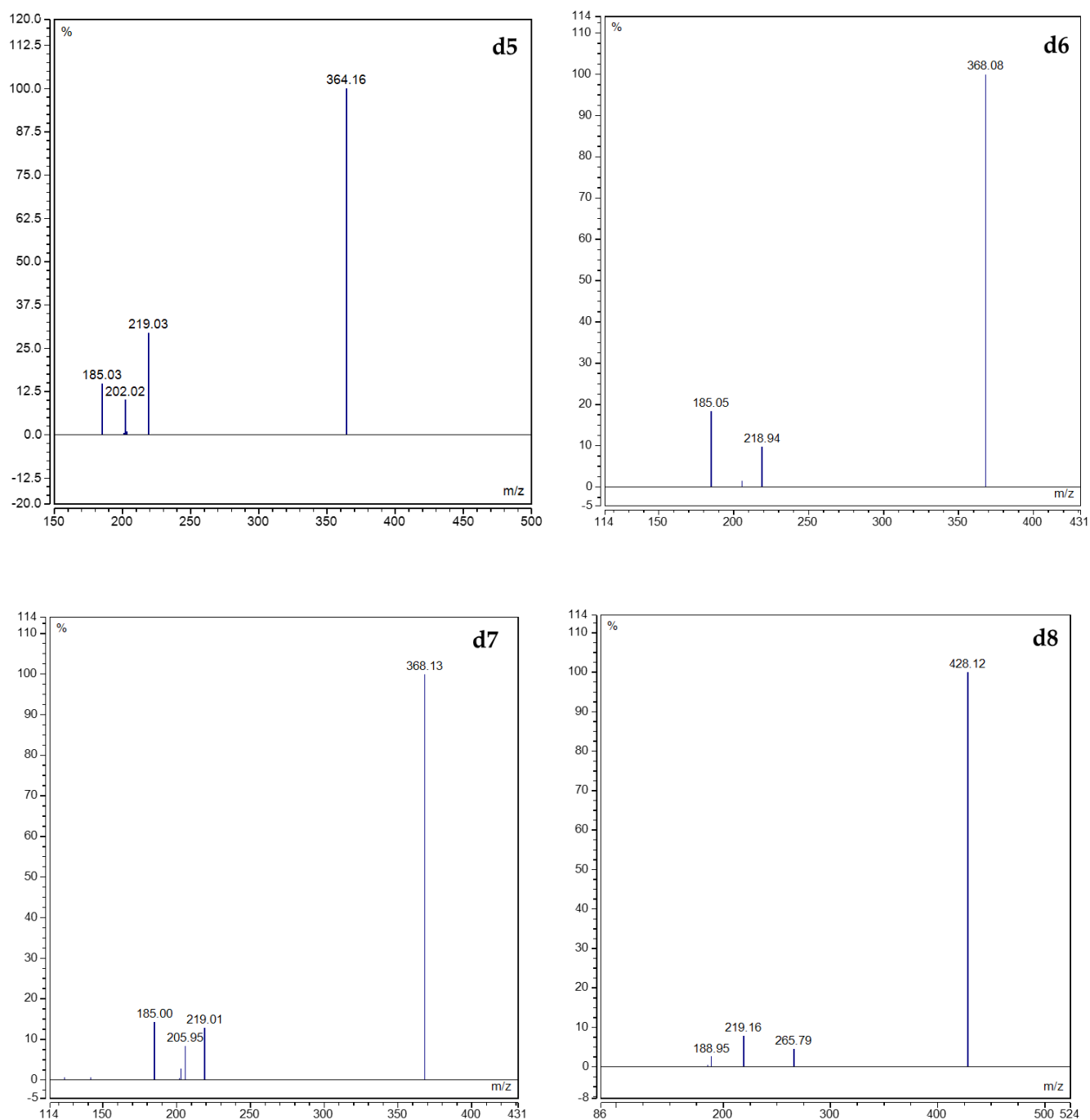


Figure S3. Continuous

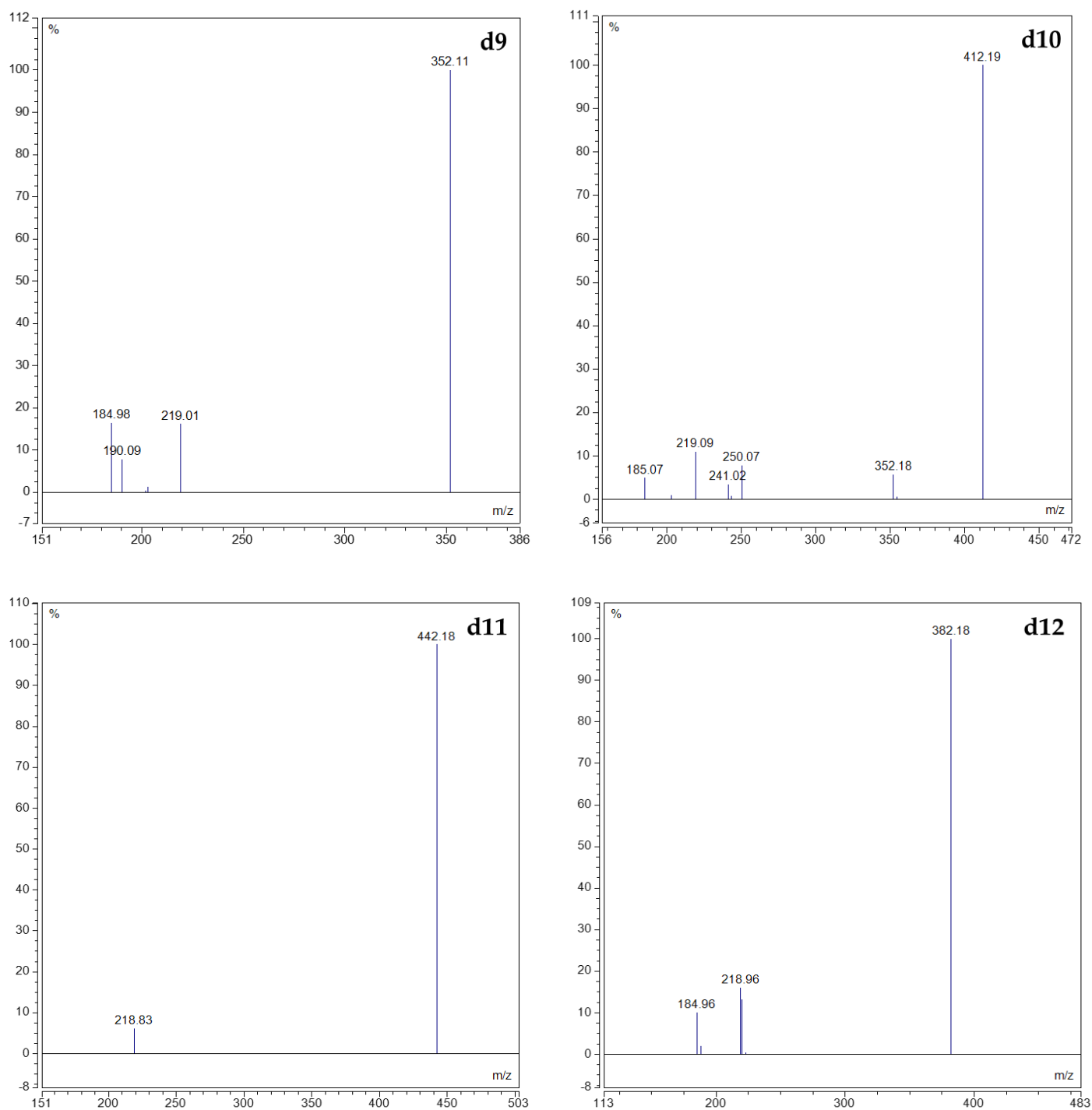
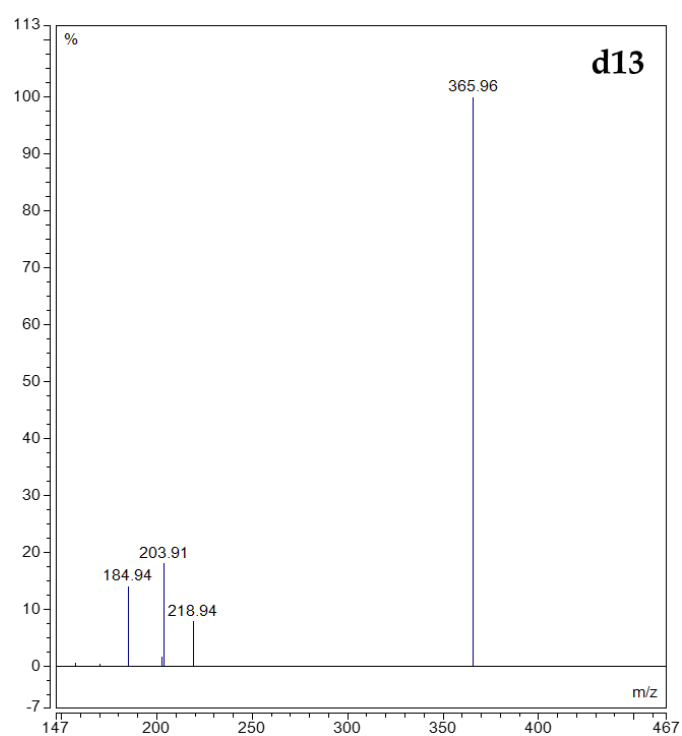
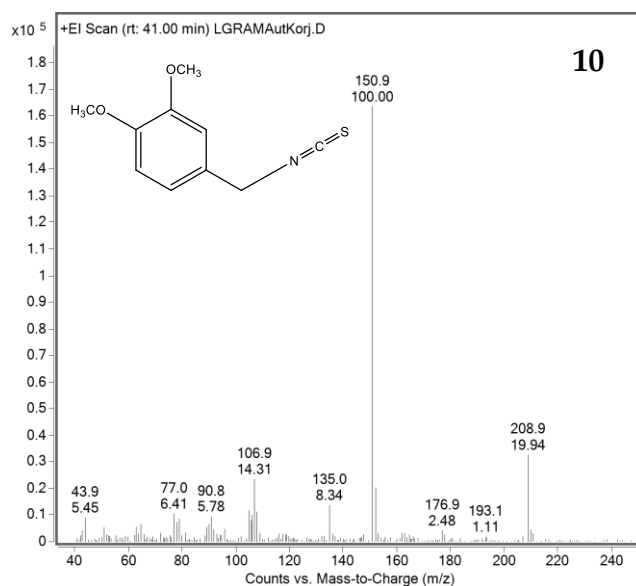
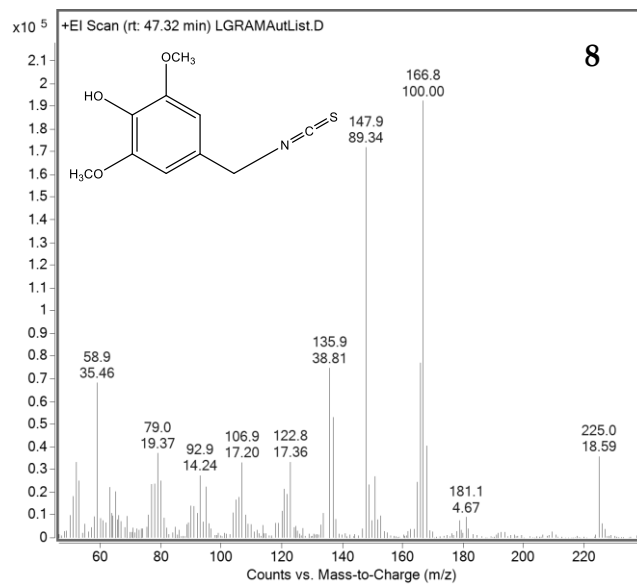
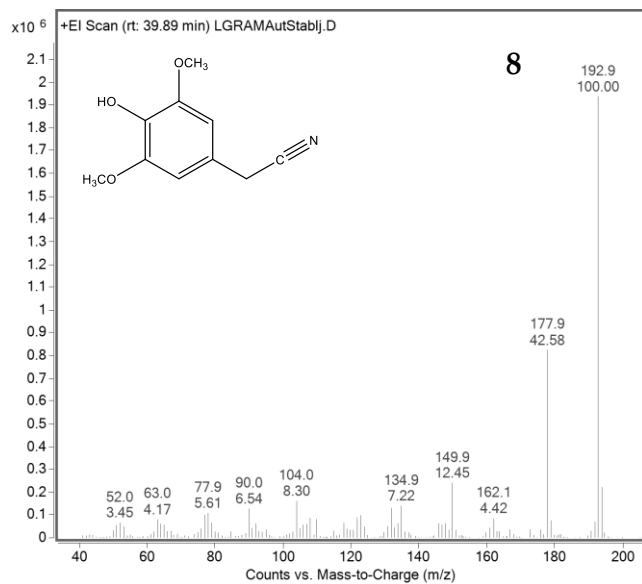
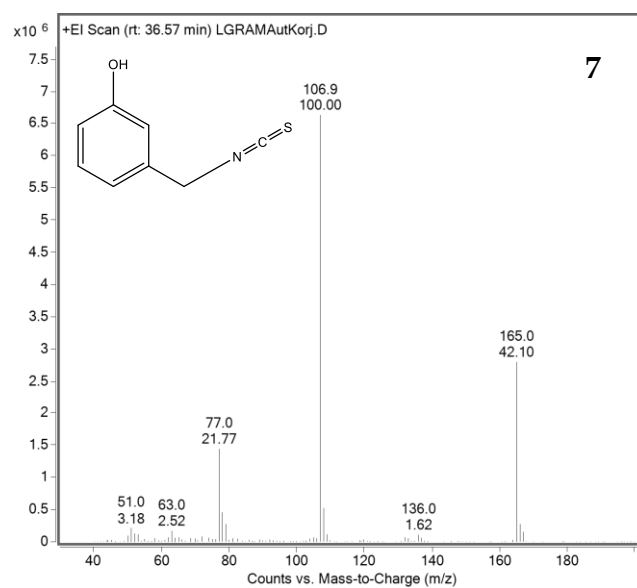
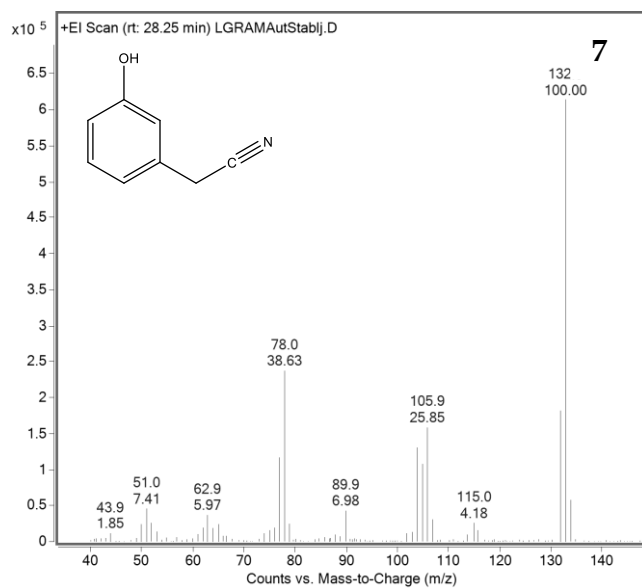


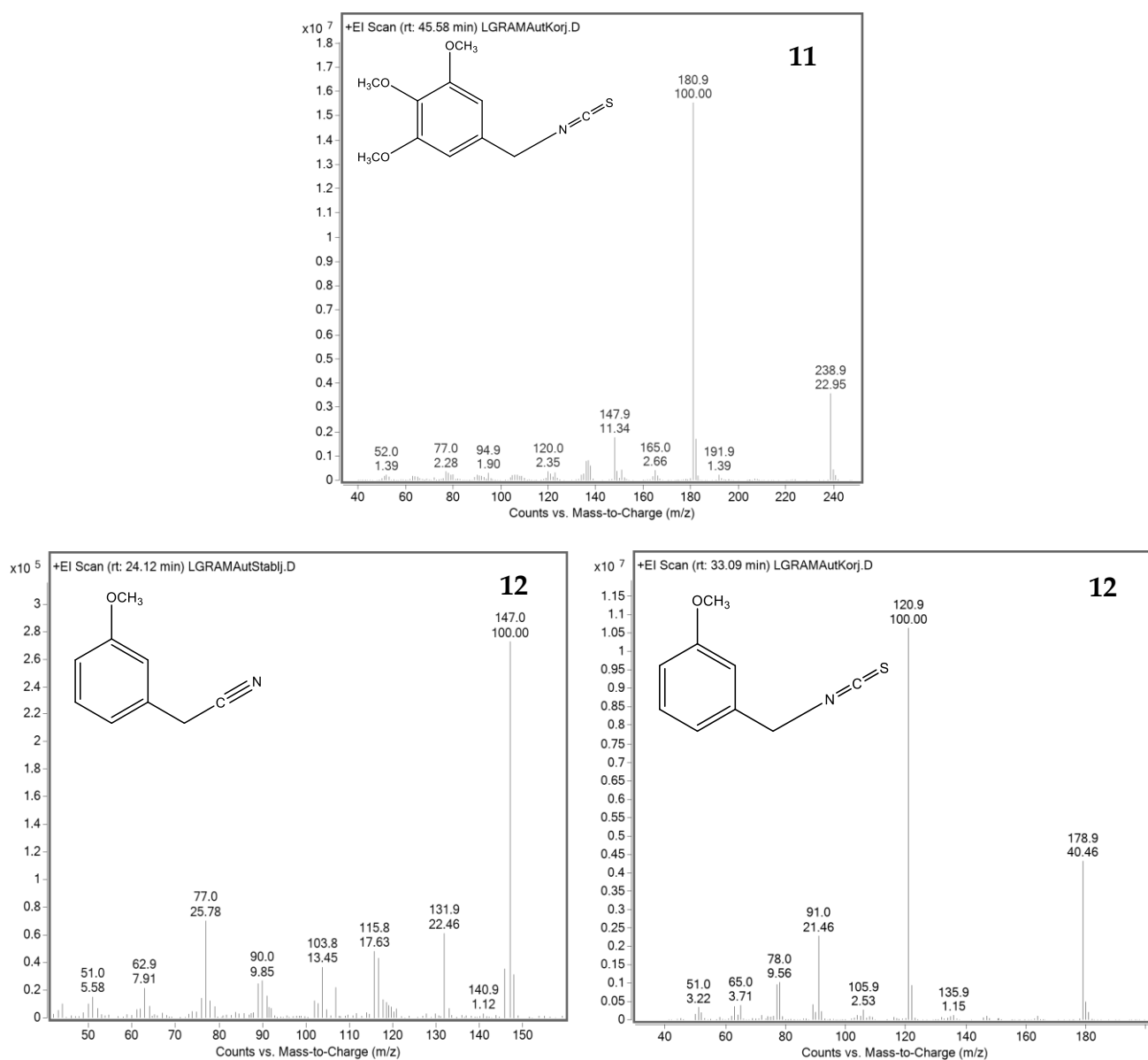
Figure S3. Continuous



**Figure S3.** MS<sup>2</sup> spectra at 15V ionization of desulfo-GSLs detected: **d1- d13**.







**Figure S4.** MS spectra of degradation products originating from substituted benzylic-type GSLs. Numbers correspond to Table 1 and Figure 1.