

Supplementary Materials

Rhabdastrellosides A and B, isomalabaricane glycosides from the marine sponge *Rhabdastrella globostellata*, and their cytotoxic and cytoprotective effects

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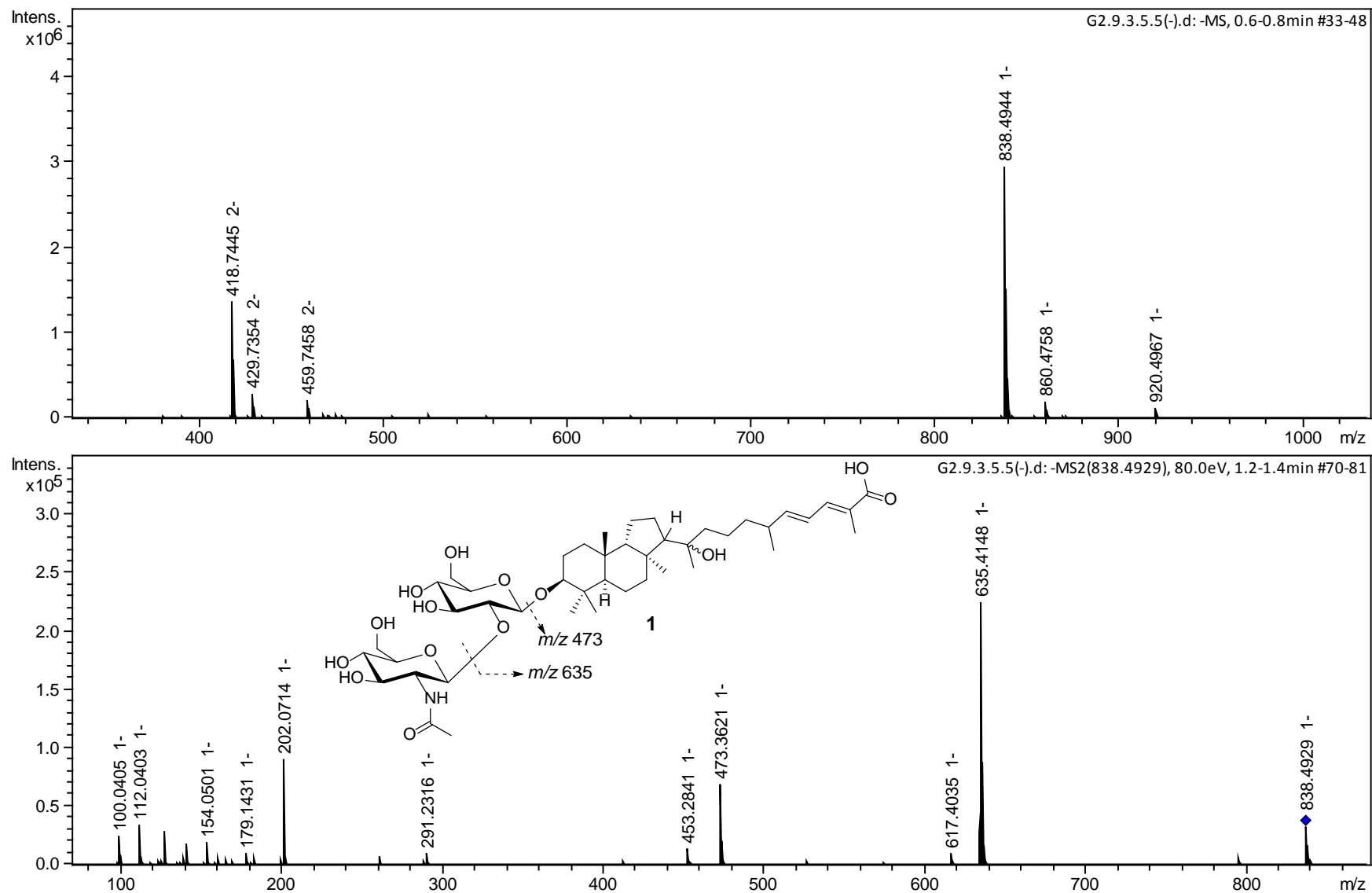
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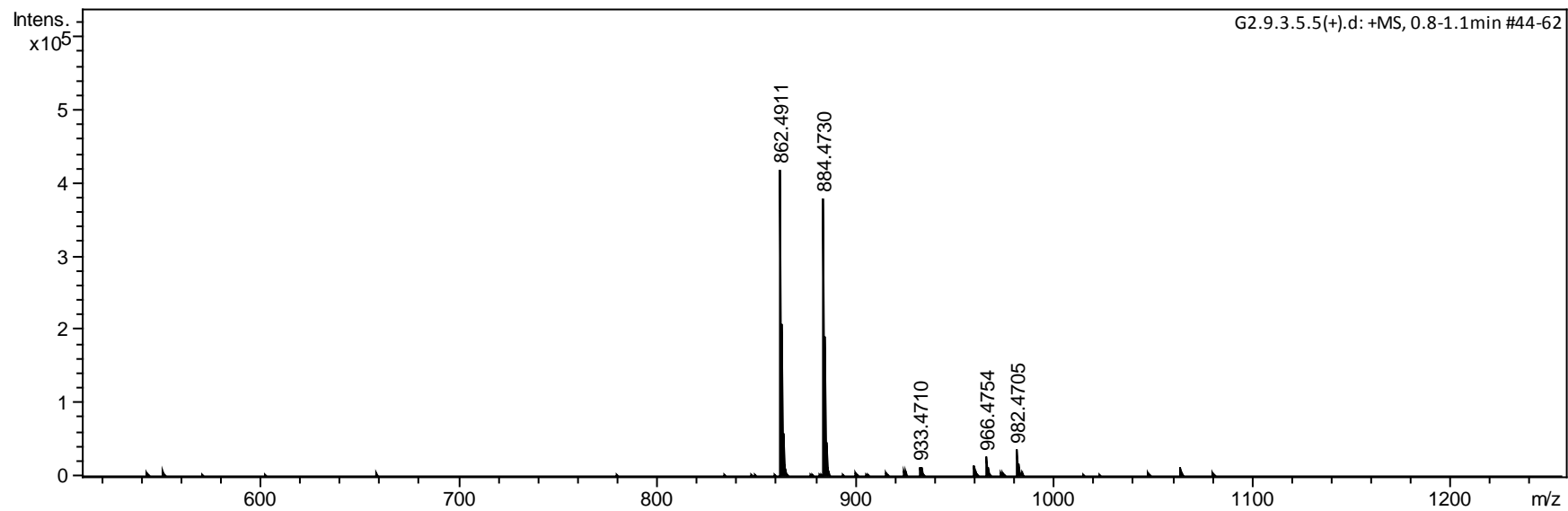
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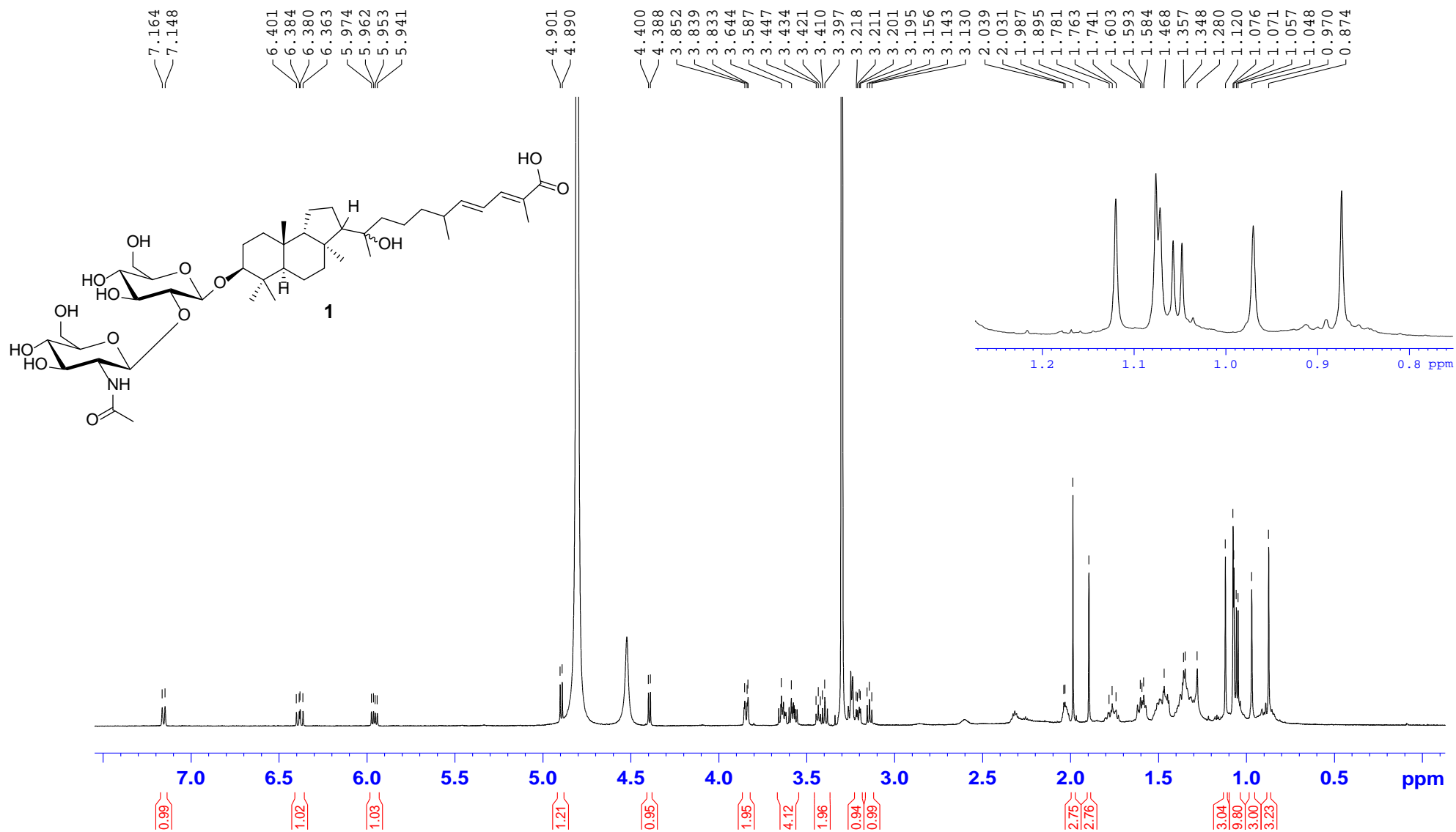
S1 (–)HRESIMS of Rhabdastrelloside A (**1**) and MS/MS spectrum of its $[M - H]^-$ precursor ion at m/z 838



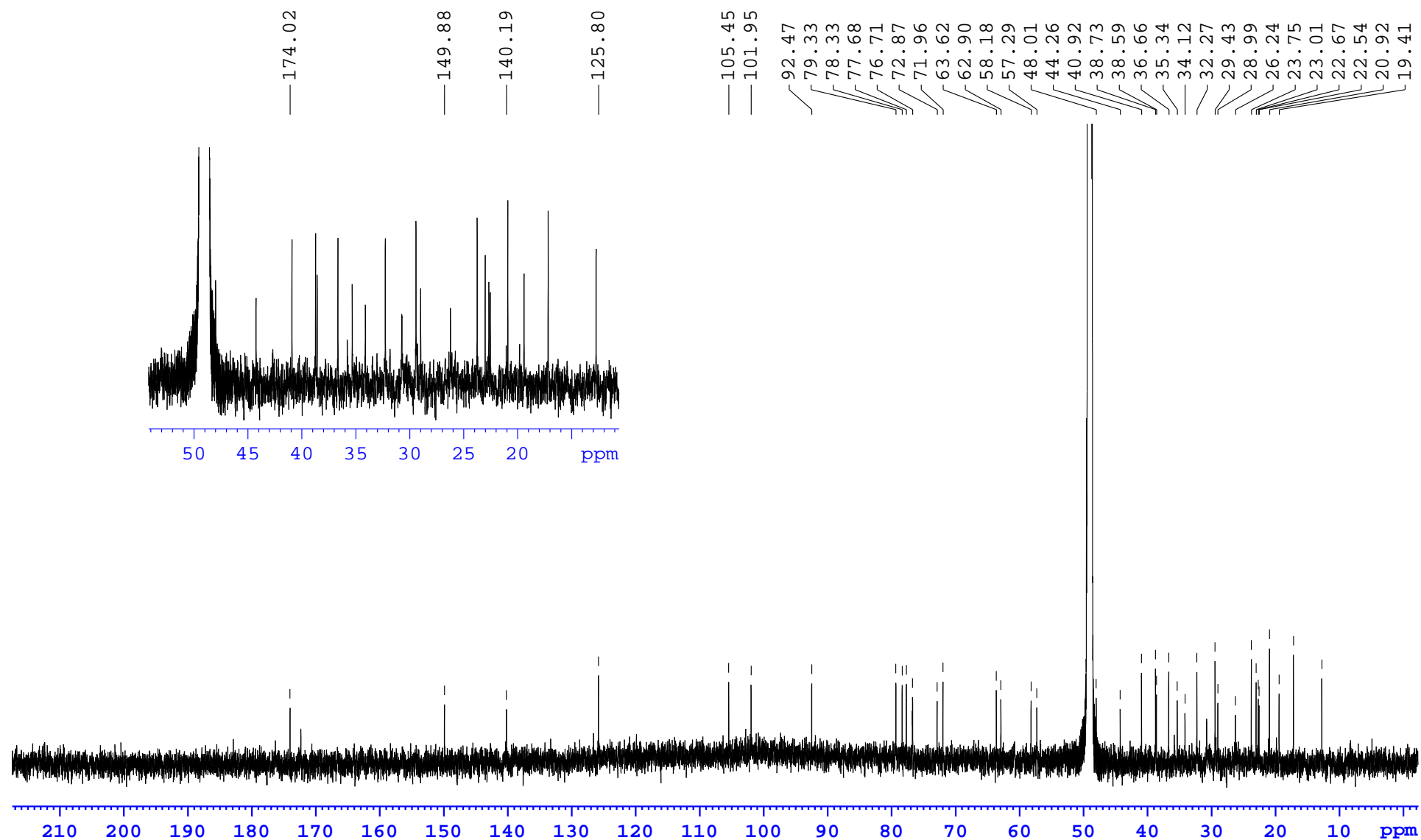
S2 HRESIMS (Positive Ion Mode) of Rhabdastrelloside A (1)



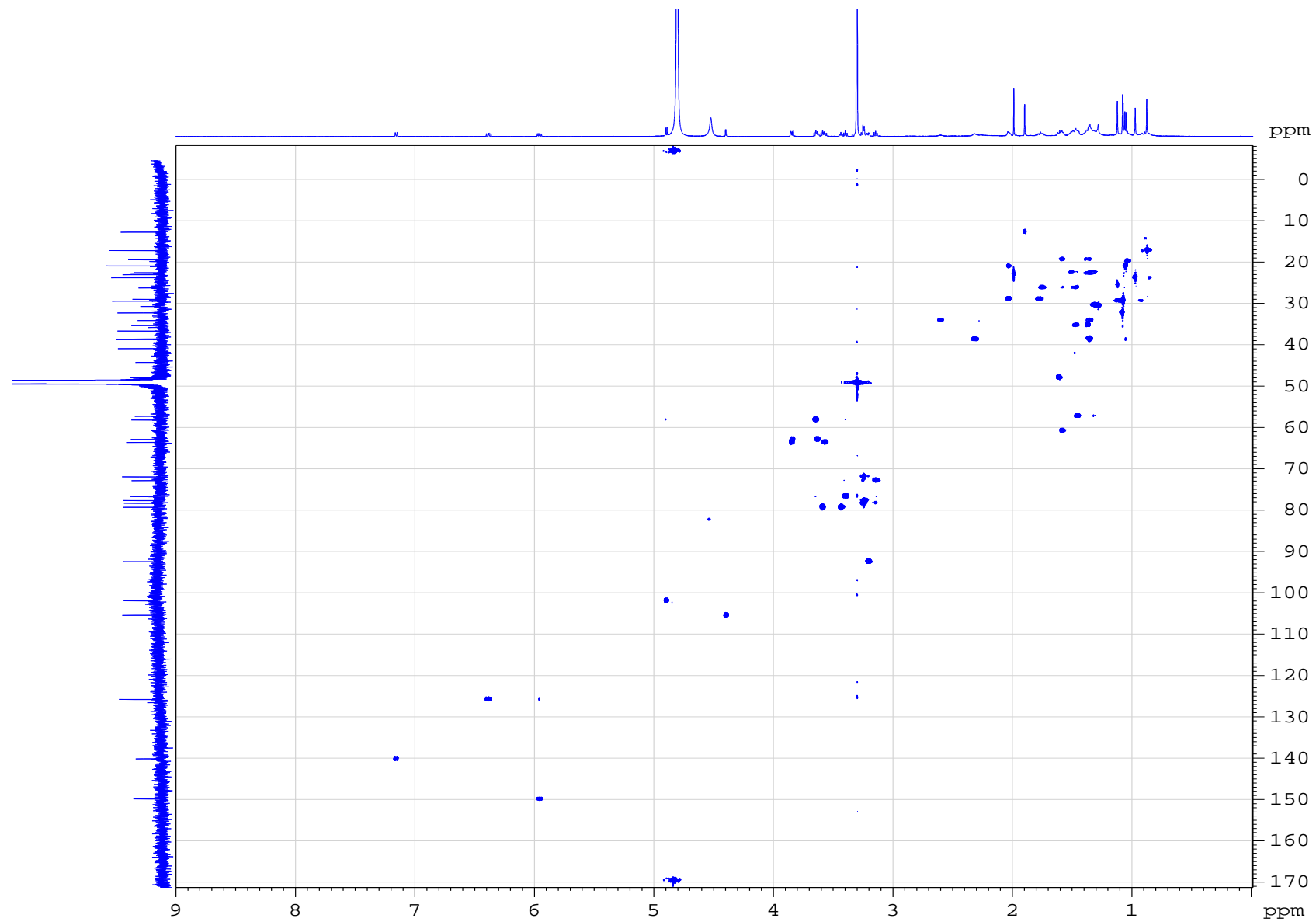
S3 ^1H NMR Spectrum of Rhabdastrelloside A (**1**) in CD_3OD (700 MHz)



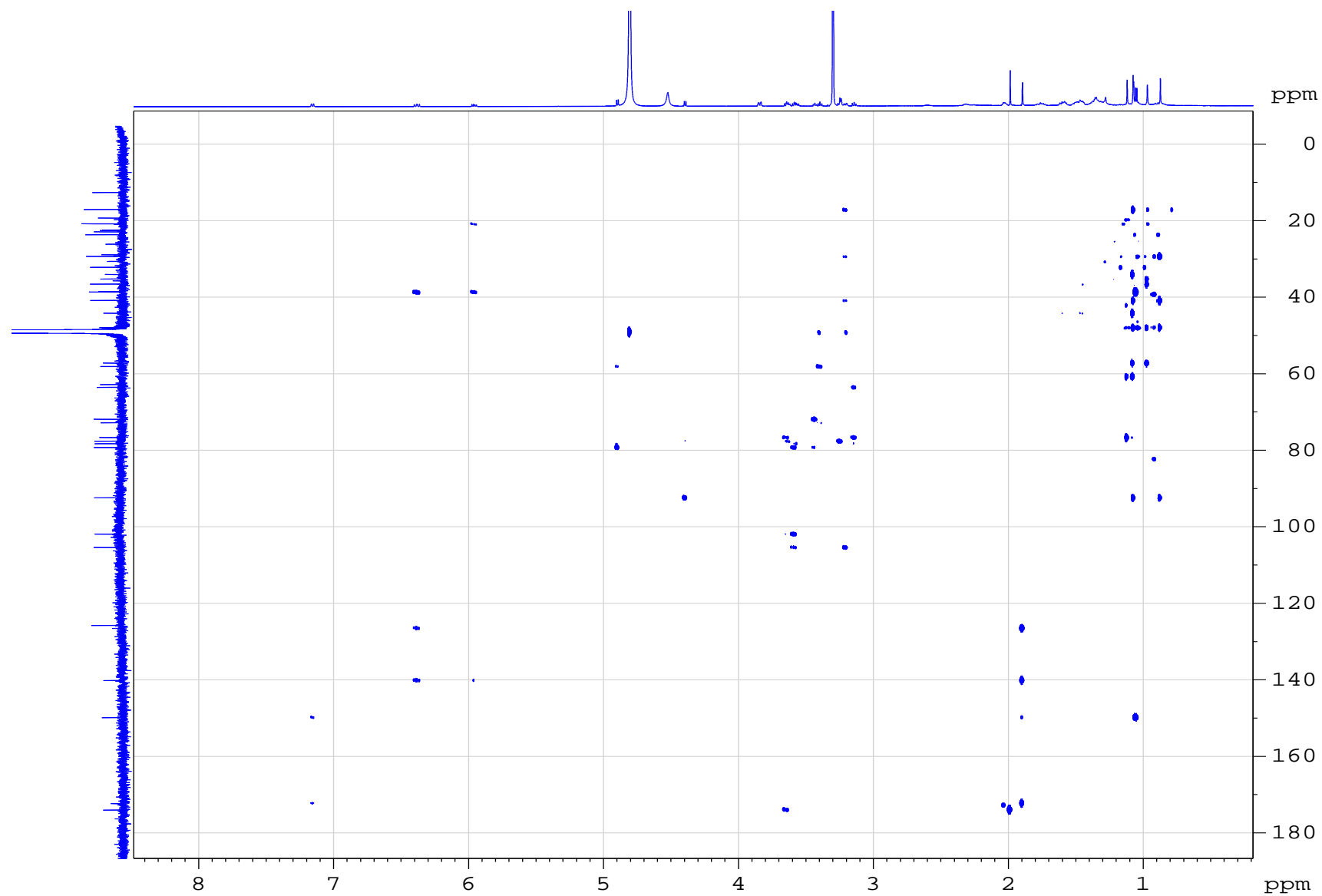
S4 ^{13}C NMR Spectrum of Rhabdastrelloside A (**1**) in CD_3OD (700 MHz)



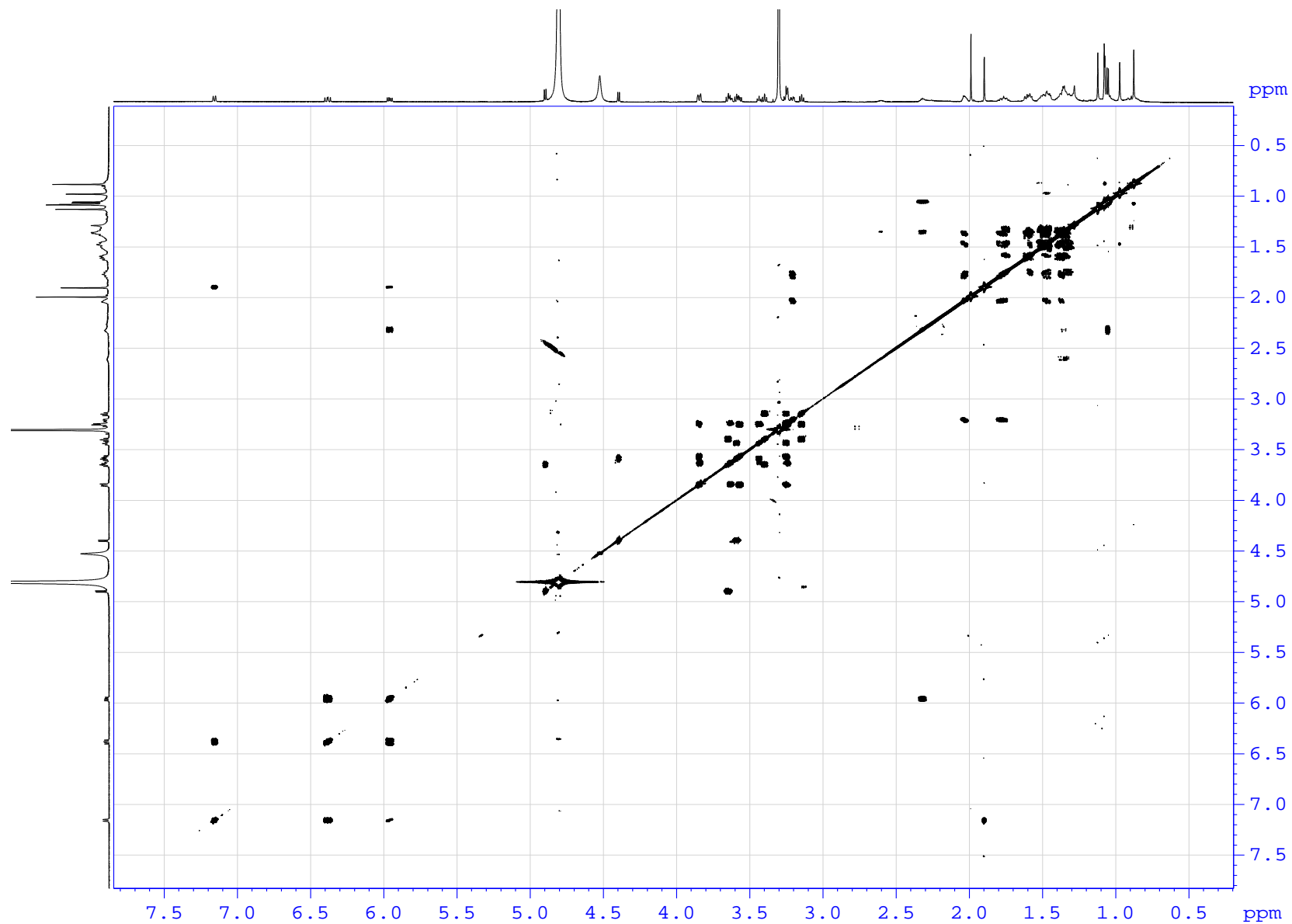
S5 HSQC Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



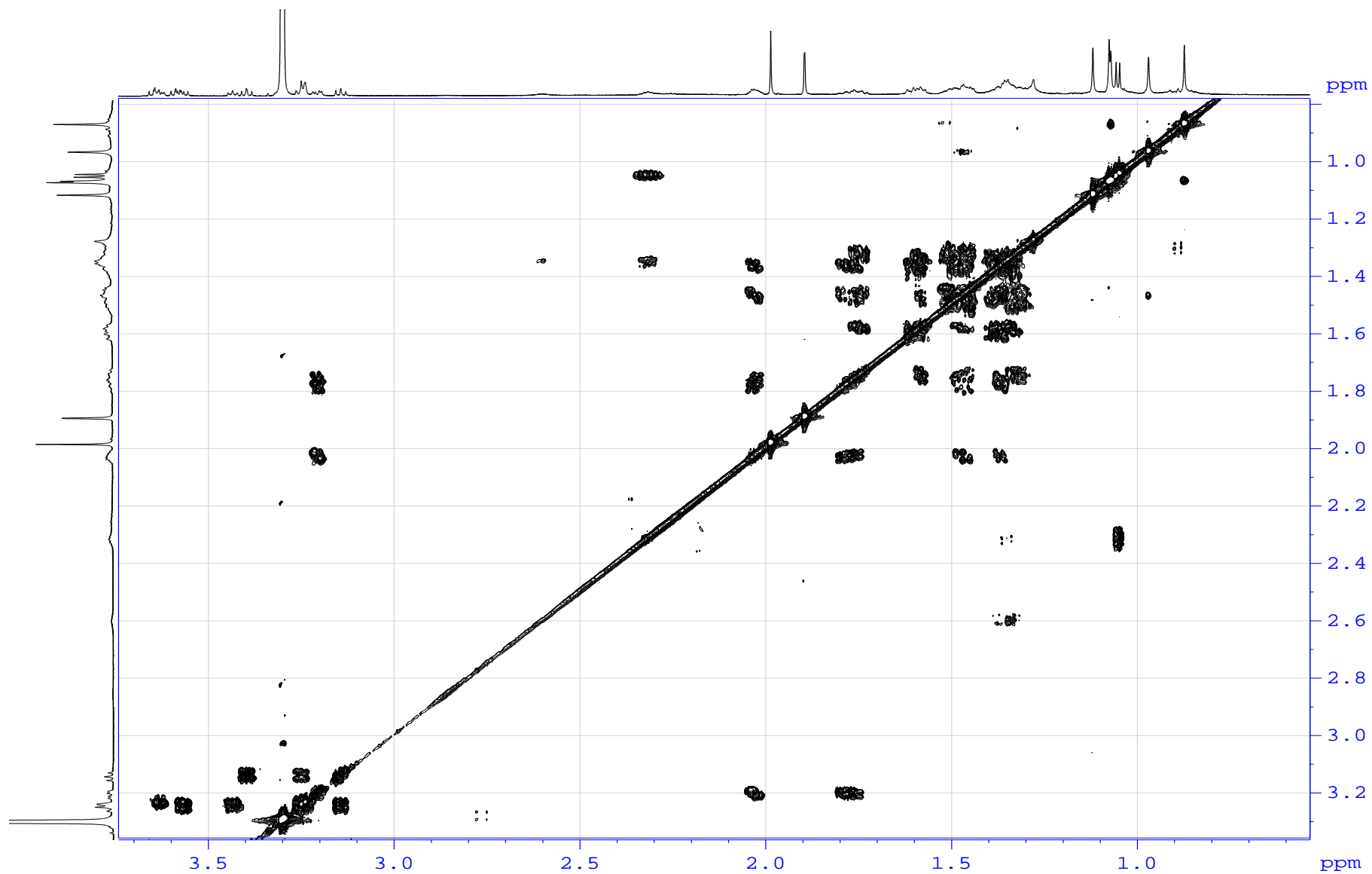
S6 HMBC Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



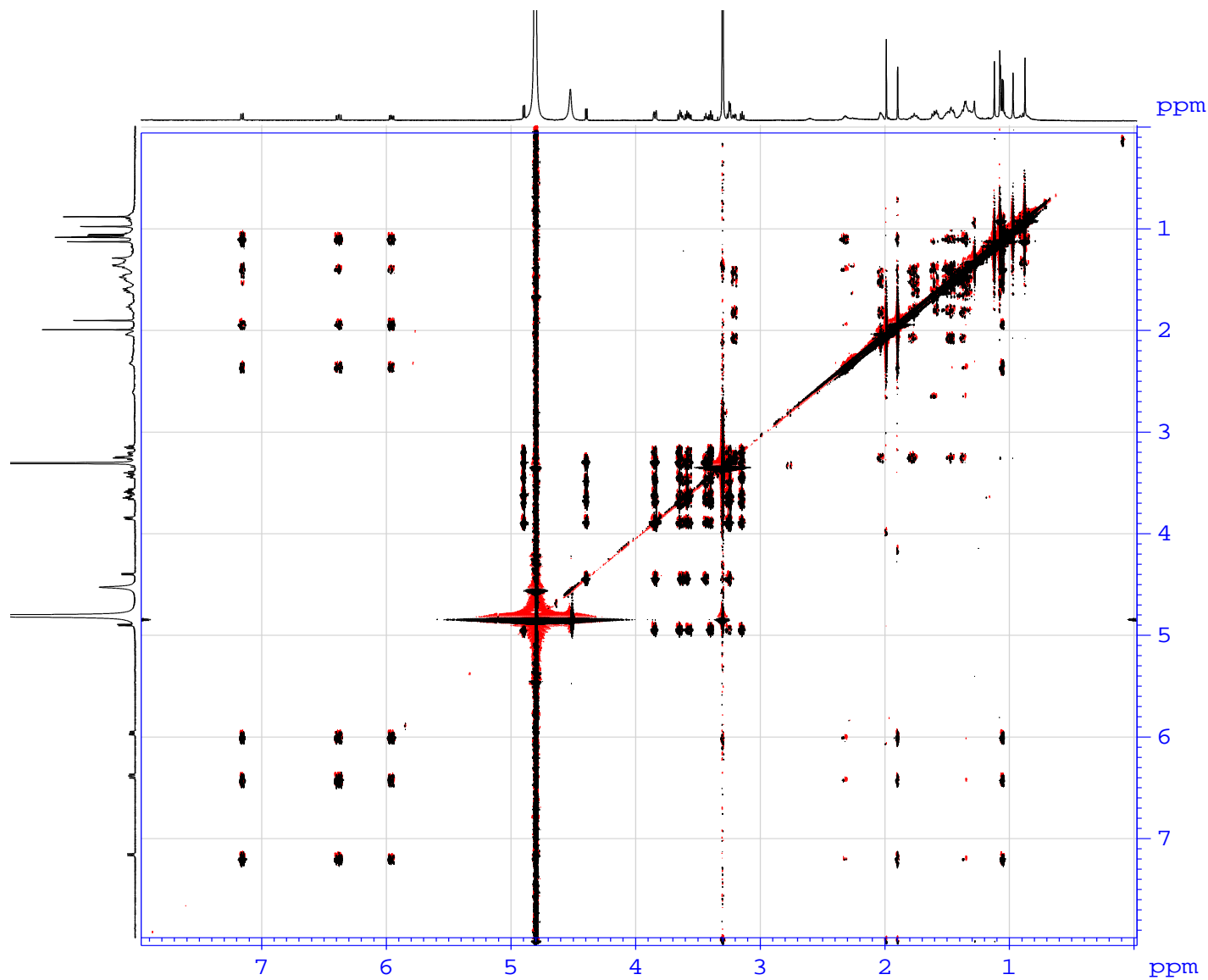
S7 COSY Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



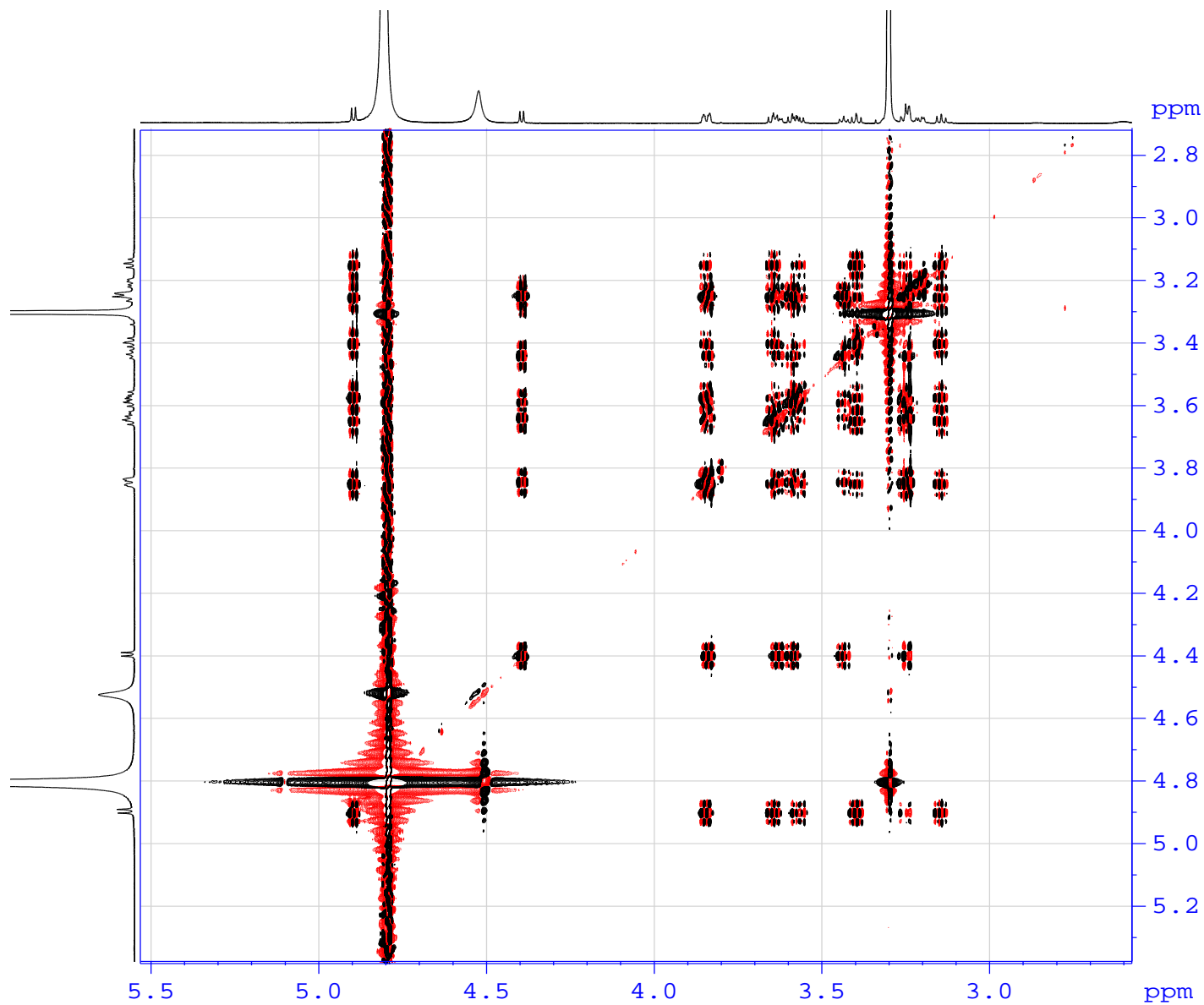
S8 Expanded COSY Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



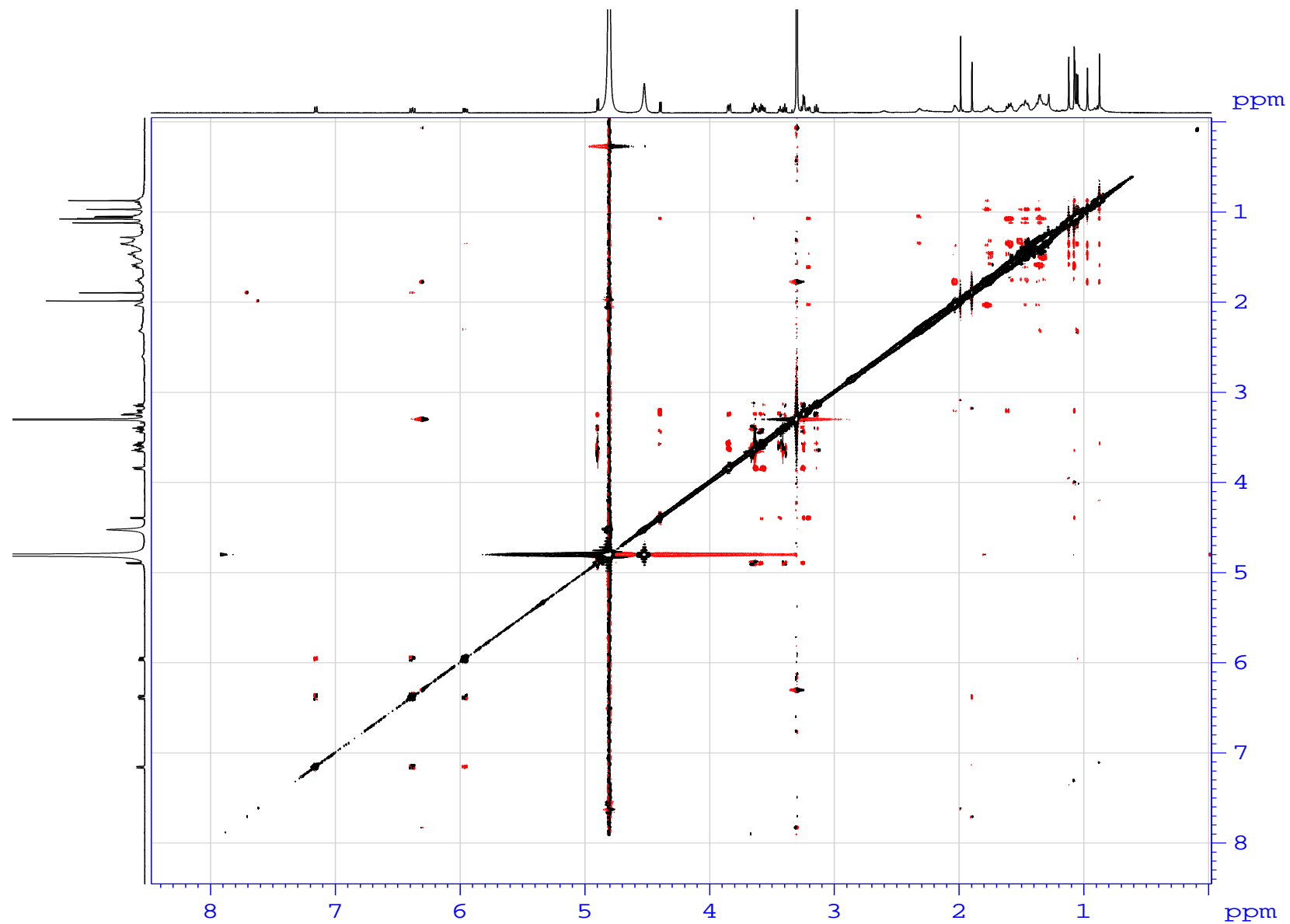
S9 2D TOCSY Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



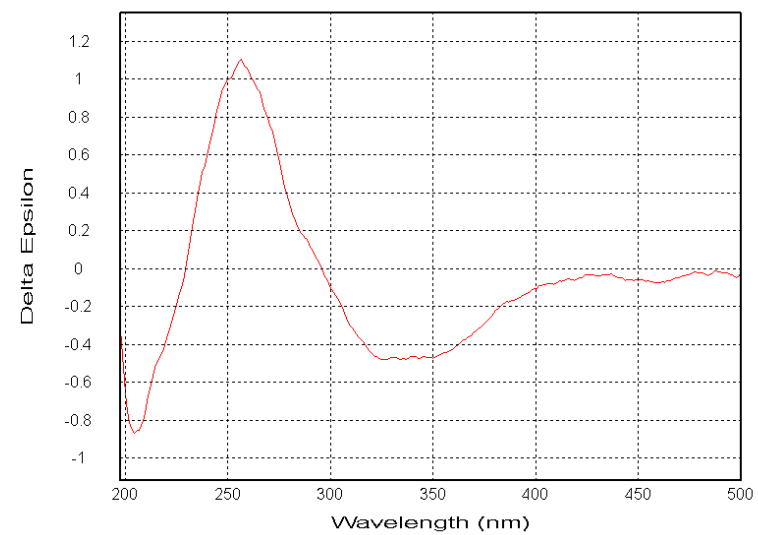
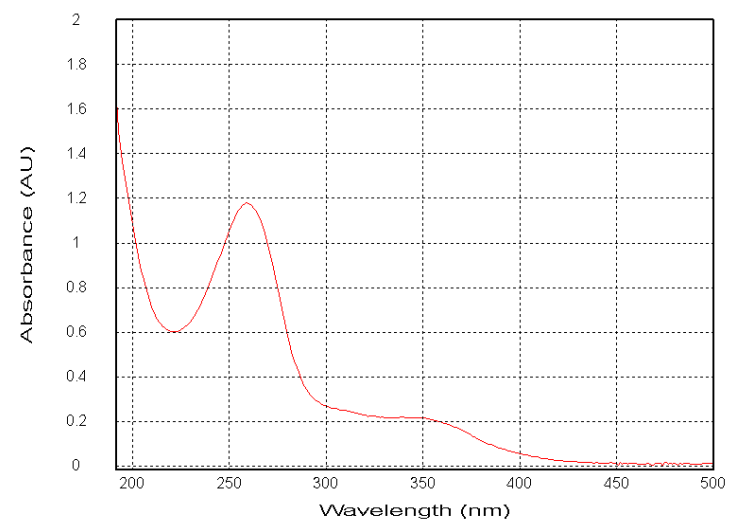
S10 Expanded 2D TOCSY Spectrum for disaccharide moiety in Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



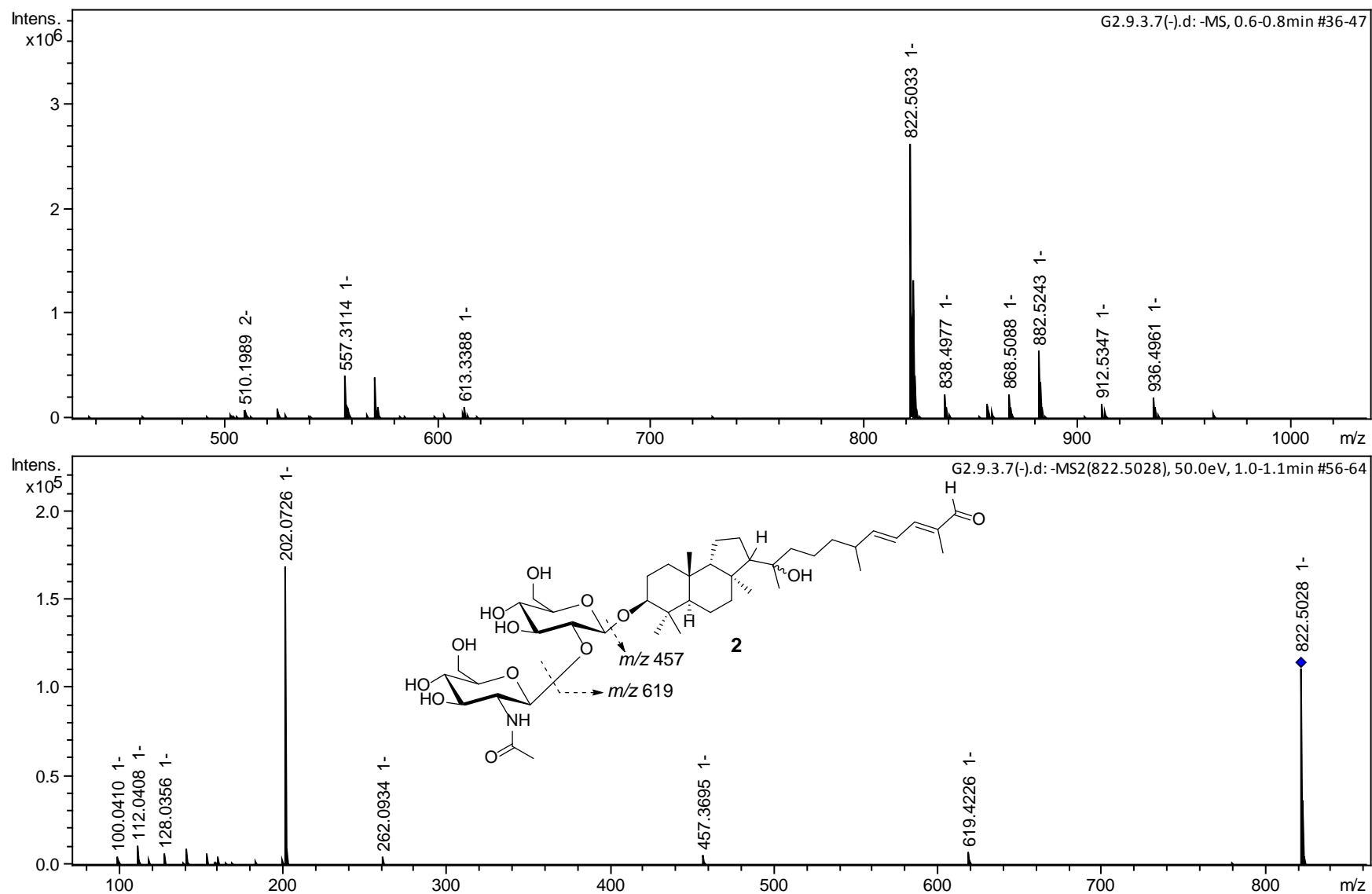
S11 ROESY Spectrum of Rhabdastrelloside A (**1**) in CD₃OD (700 MHz)



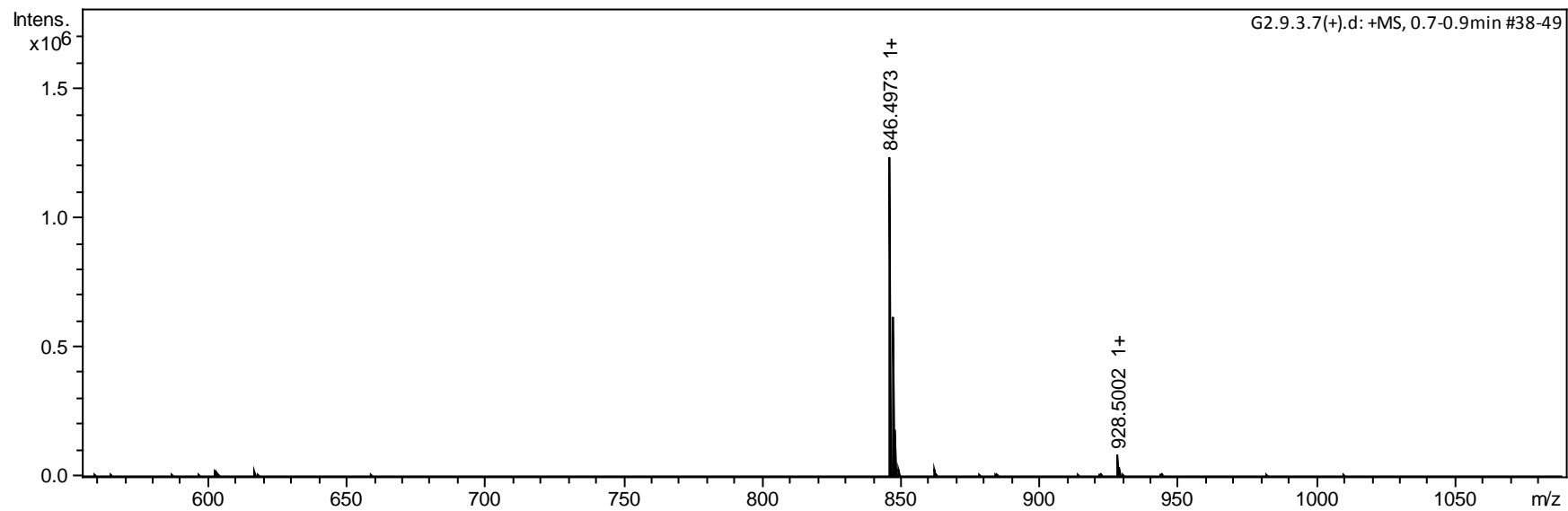
S12 UV and ECD Spectra of Rhabdastrelloside A (1) in EtOH



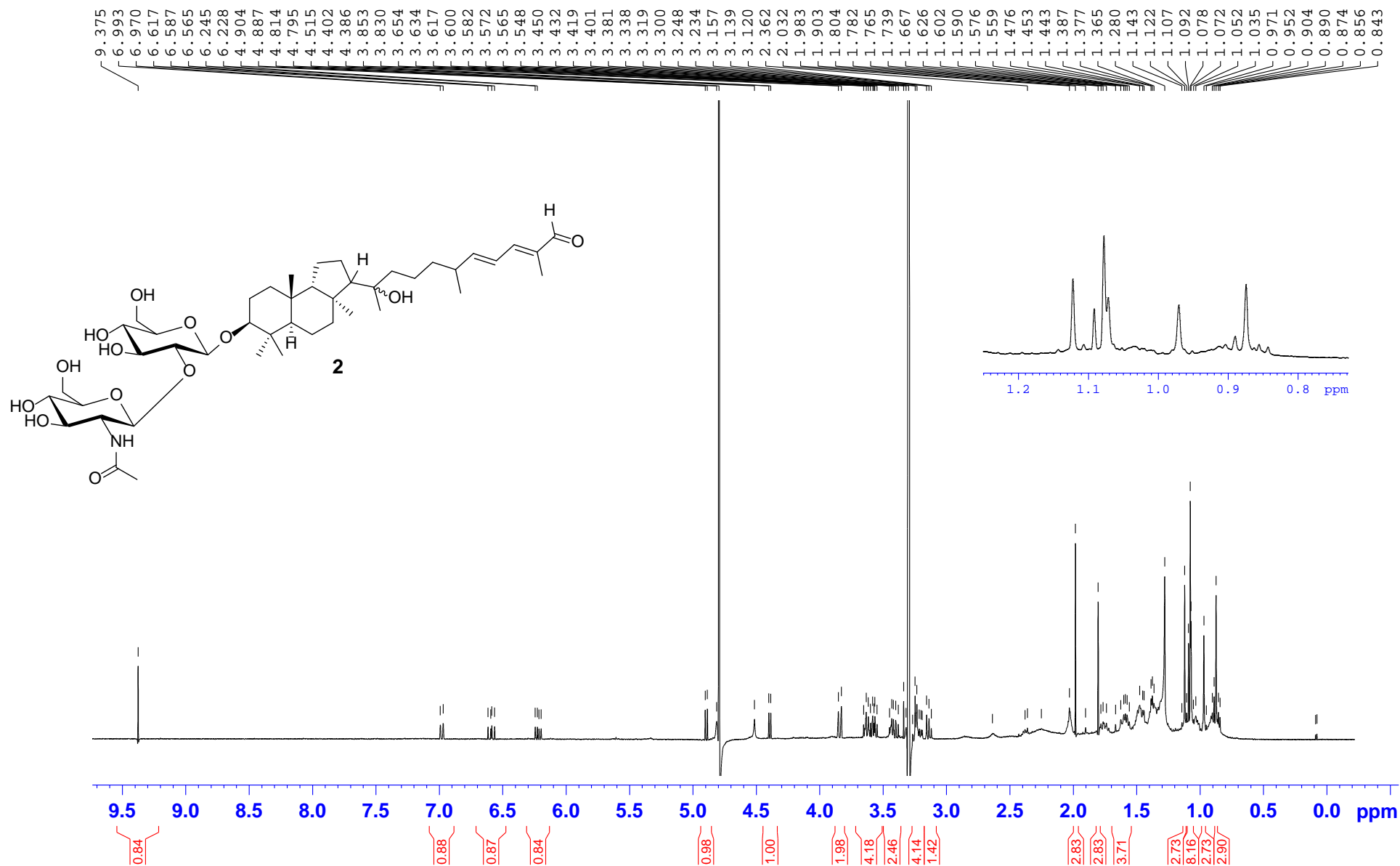
S13 (–)HRESIMS of Rhabdastrelloside B (**2**) and MS/MS spectrum of its $[M - H]^-$ precursor ion at m/z 822



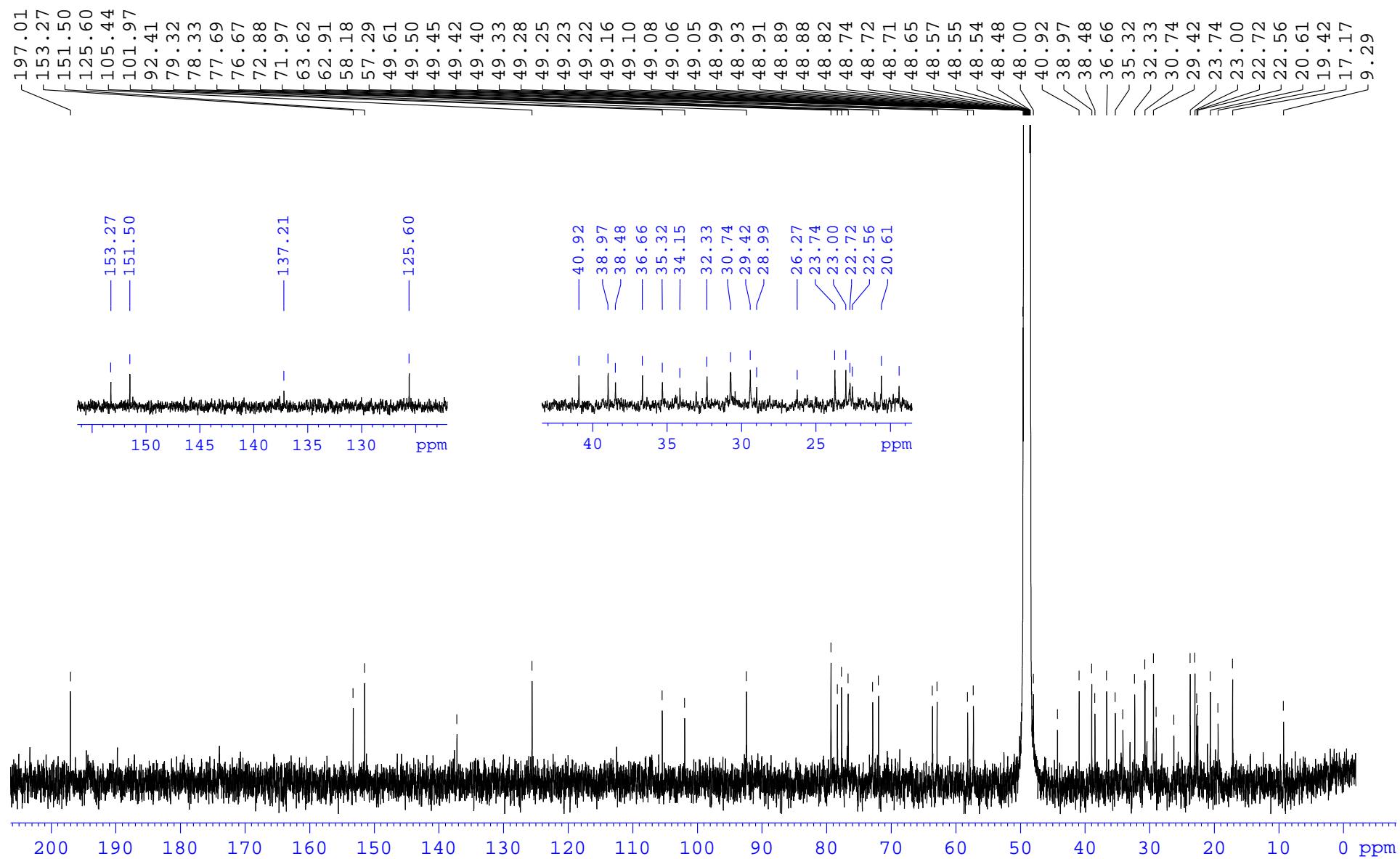
S14 HRESIMS (Positive Ion Mode) of Rhabdastrelloside B (2)



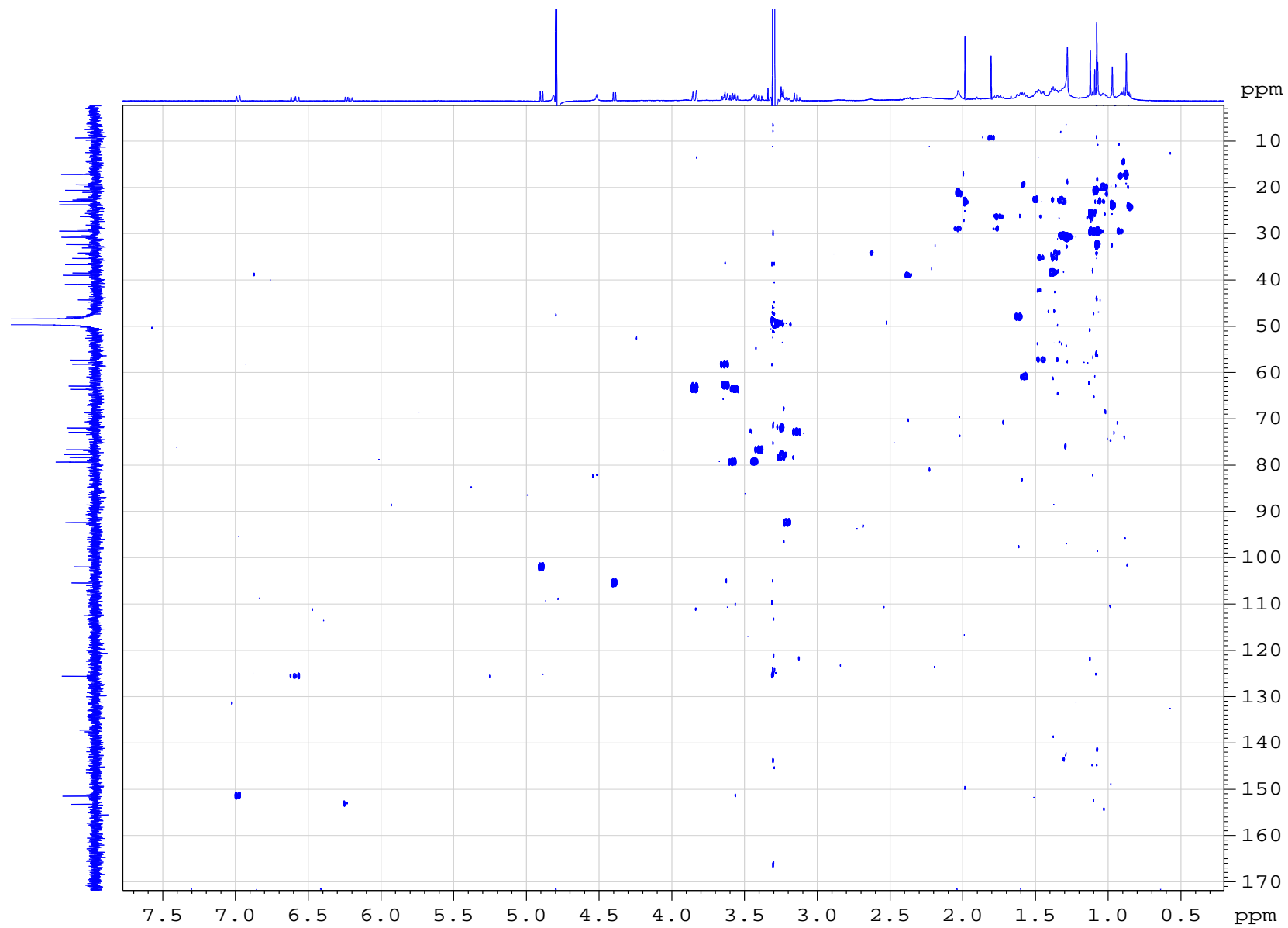
S15 ^1H NMR Spectrum of Rhabdastrelloside B (**2**) in CD_3OD (500 MHz)



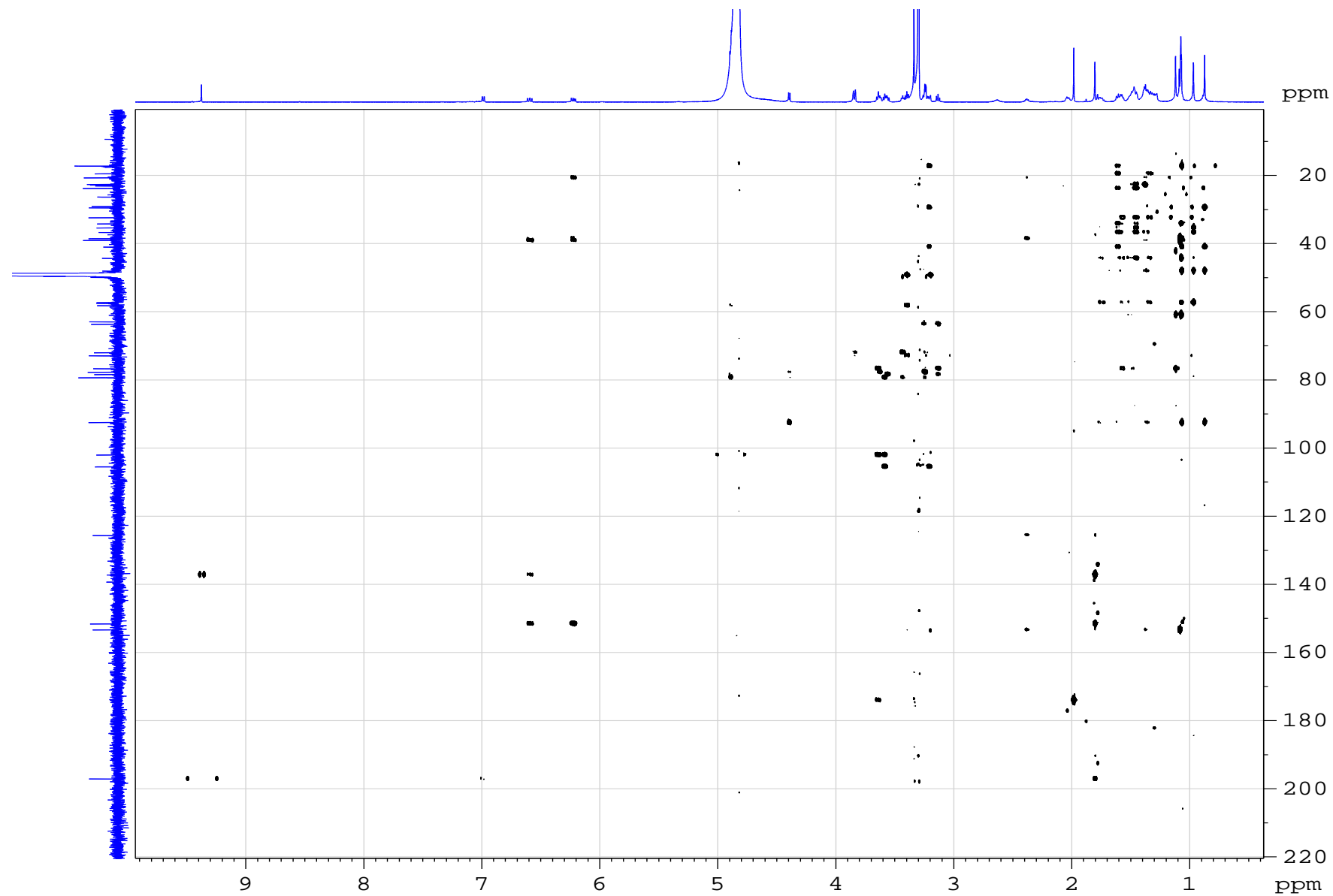
S16 ^{13}C NMR Spectrum of Rhabdastrelloside B (**2**) in CD_3OD (500 MHz)



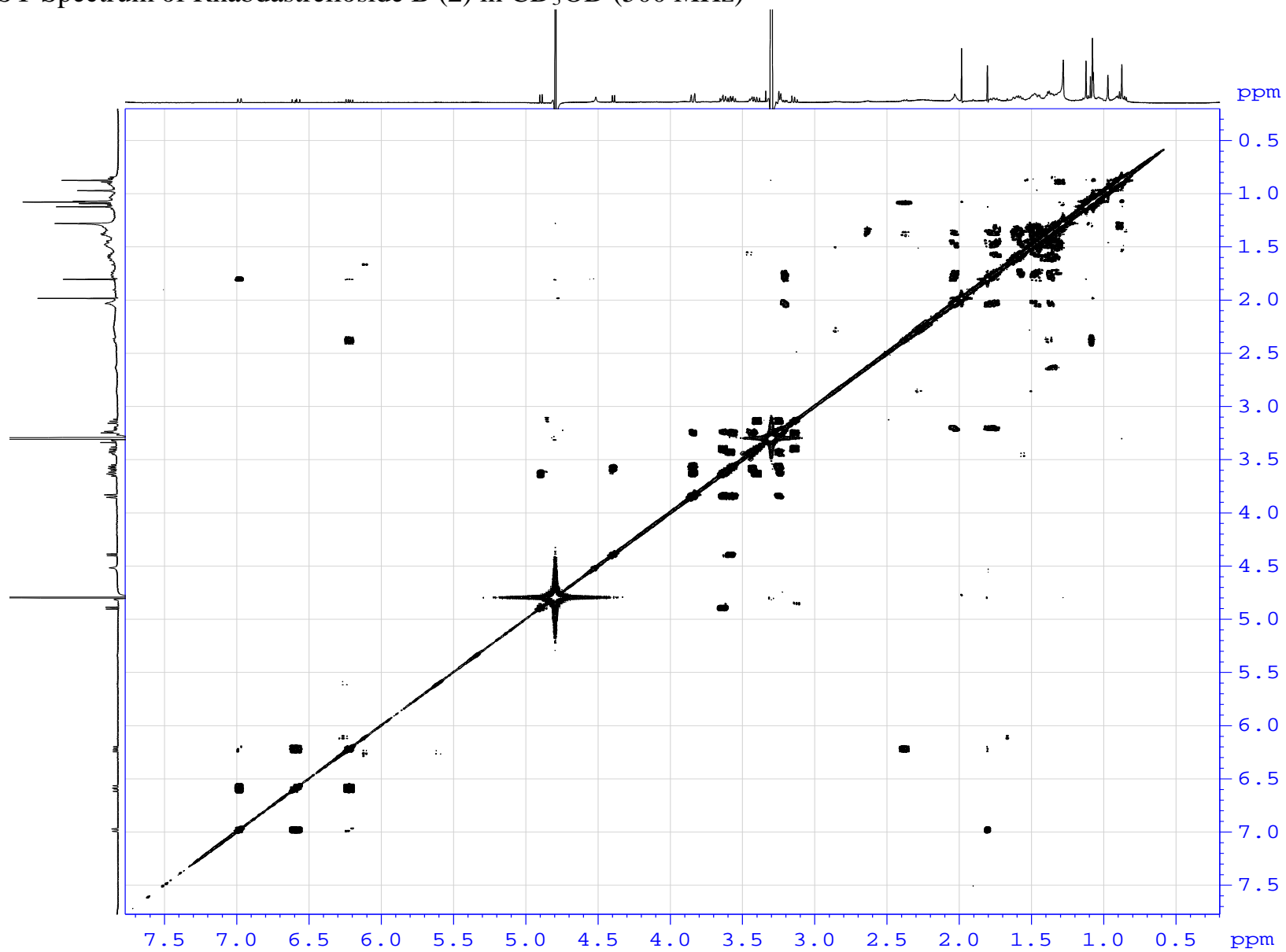
S17 HSQC Spectrum of Rhabdastrelloside B (**2**) in CD₃OD (500 MHz)



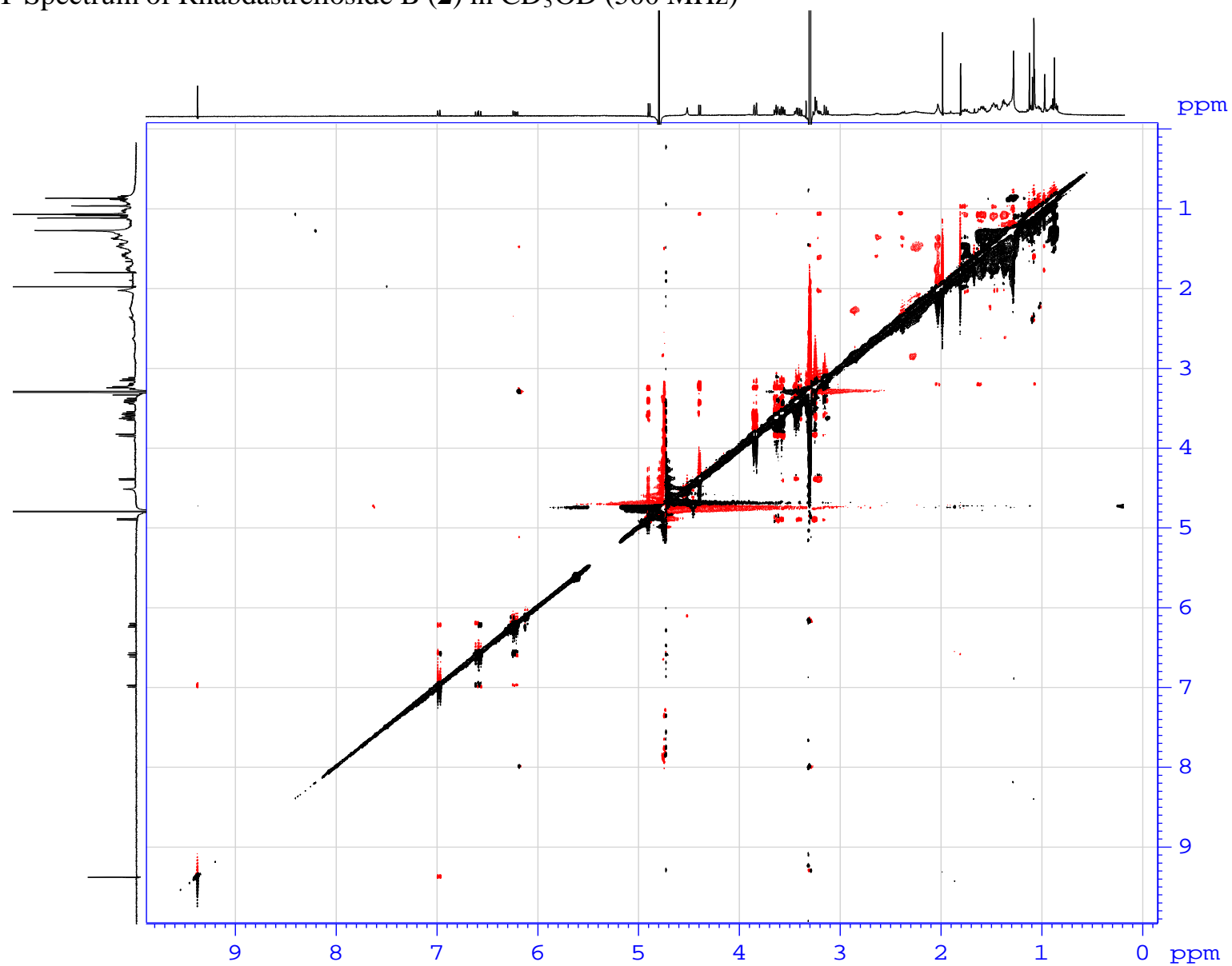
S18 HMBC Spectrum of Rhabdastrelloside B (**2**) in CD₃OD (700 MHz)



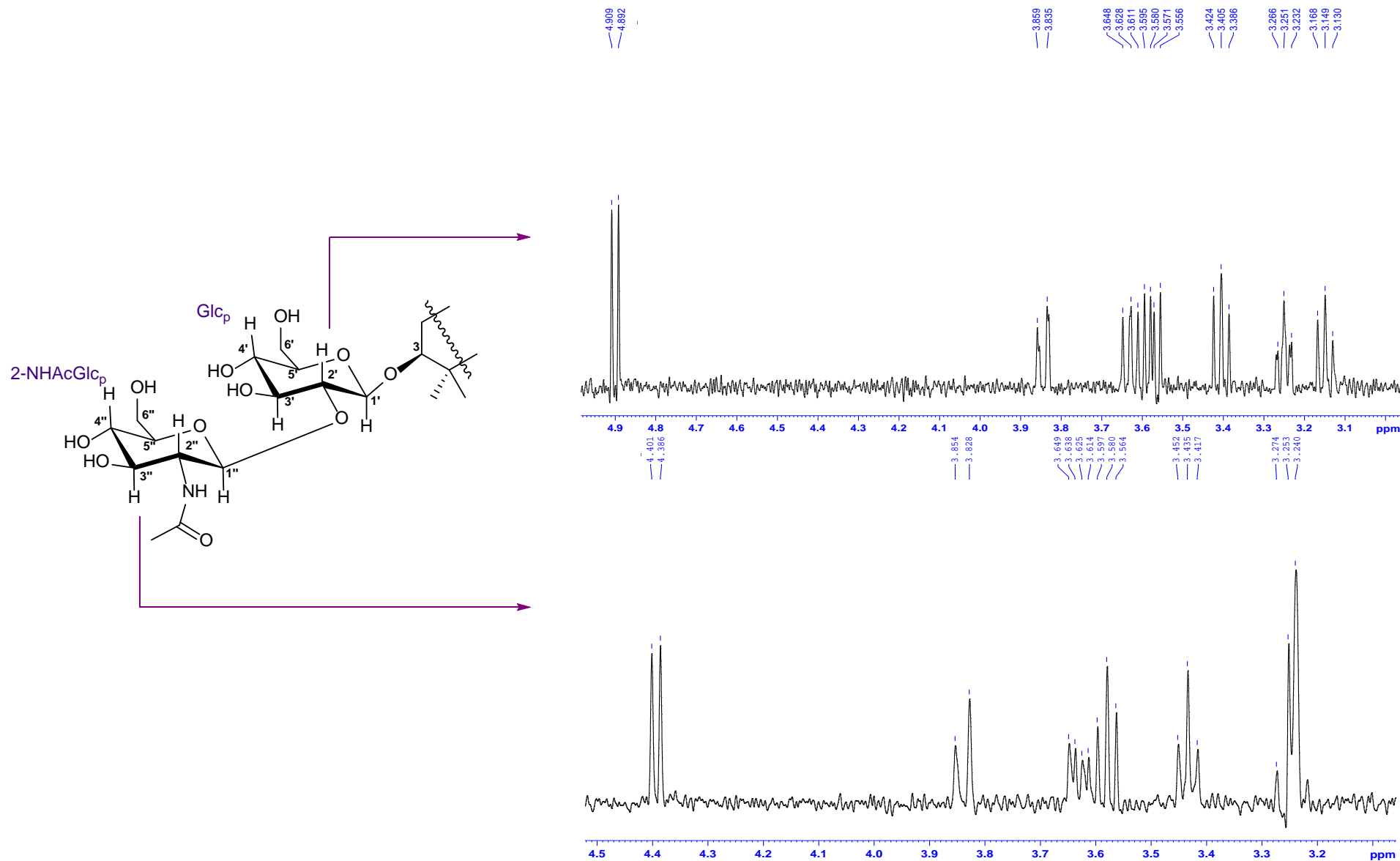
S19 COSY Spectrum of Rhabdastrelloside B (**2**) in CD₃OD (500 MHz)



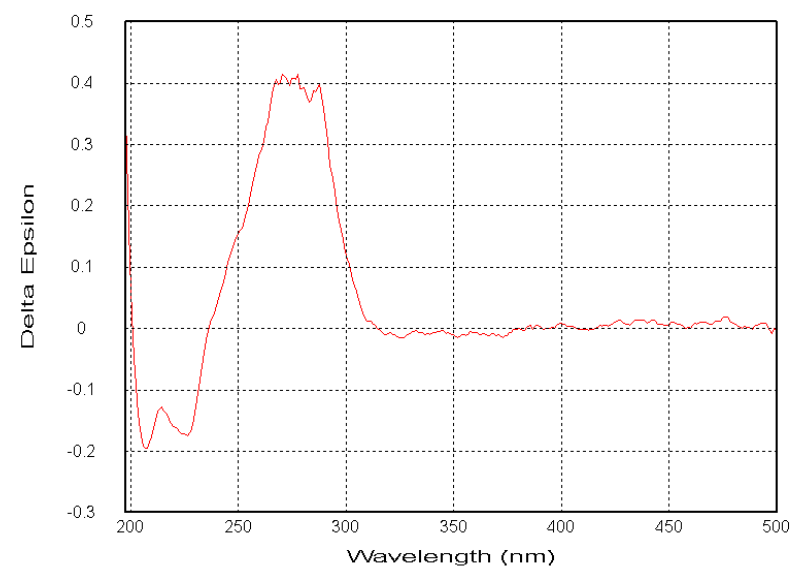
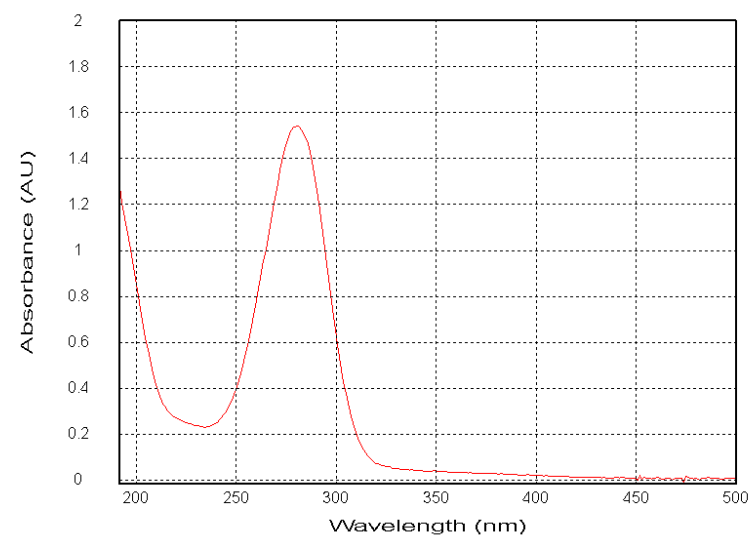
S20 ROESY Spectrum of Rhabdastrelloside B (**2**) in CD₃OD (500 MHz)



S21 1D TOCSY Spectra of Rhabdastrelloside B (**2**) in CD₃OD (500 MHz)

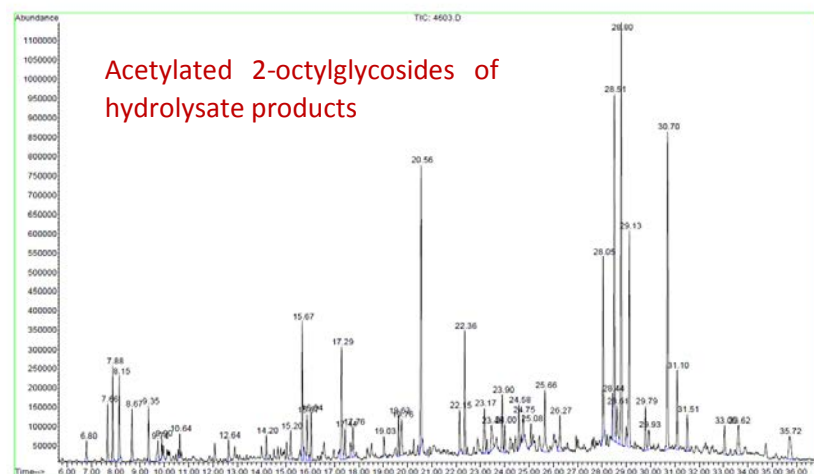


S22 UV and ECD Spectra of Rhabdastrelloside B (2) in EtOH

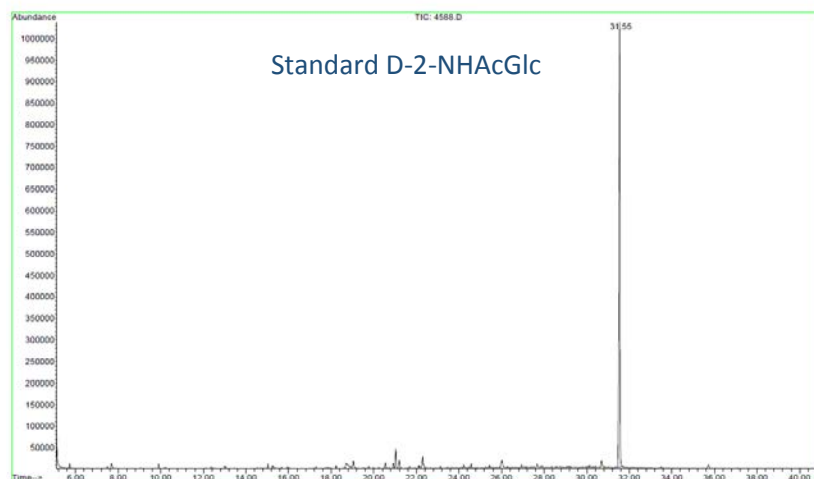


S23 Determination of Absolute Configurations of Monosaccharides: GC-MS profiles.

Sample Name: G2.0.3.13
Misc Info : 50 mkl 1 mkl
Vial Number: 1



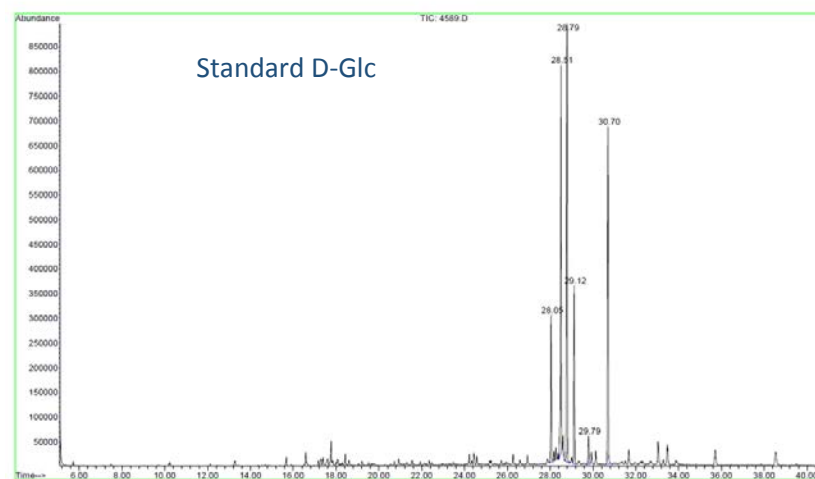
Sample Name: DGlucR(-)
Misc Info : 100 mkl 0.6 mkl
Vial Number: 1



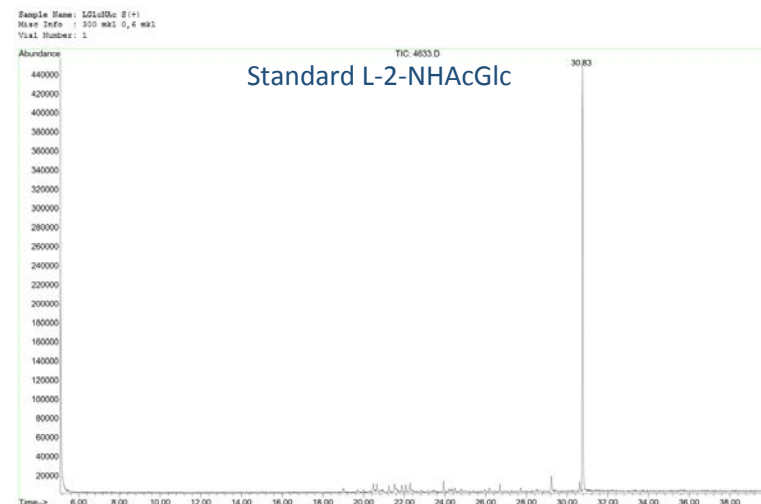
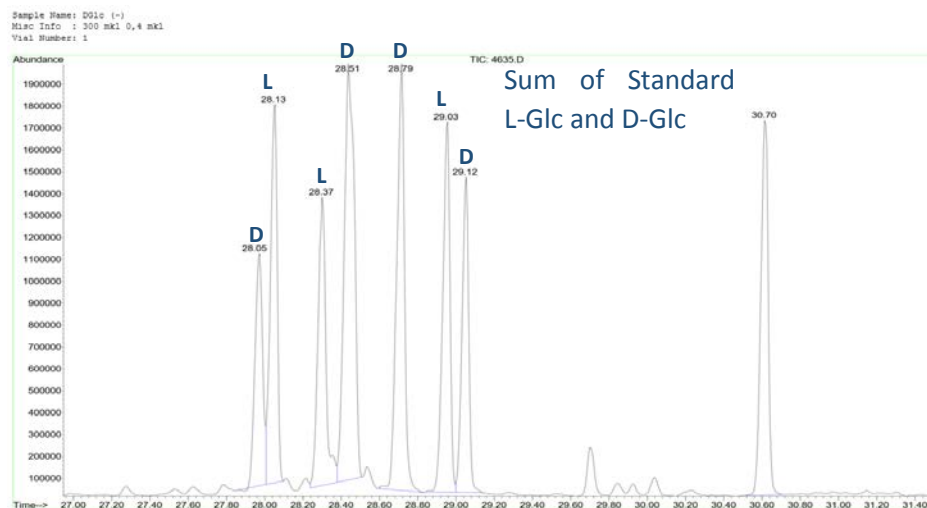
Acid hydrolysis of compound **2** (1.4 mg) was carried out as described in the text of the article (See part 4.5) The acetylated 2-octylglycosides were analyzed by GC-MS using the corresponding authentic samples prepared by the same procedure.

GC-MS analyses were carried out on a Hewlett Packard HP6890 GC System, with a HP-5MS capillary column (30 m x 0.25 mm, 0.25 μ m). The carrier gas was helium (flow rate 1.0 mL/min), the injector temperature was 270 $^{\circ}$ C, the ionizing voltage was 70 eV and the temperature program was 100 $^{\circ}$ C (0.5 min) -5° C/min -250° C (10 min).

Sample Name: DGluc(-)
Misc Info : 0.2 mg 100 mkl 0.4 mkl
Vial Number: 1



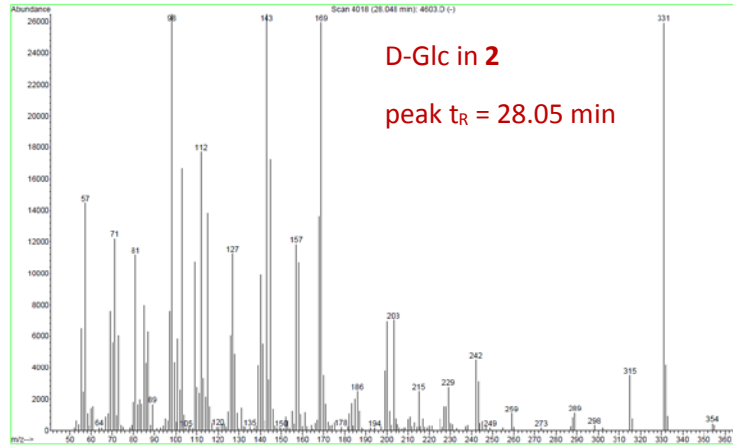
S24 Determination of Absolute Configurations of Monosaccharides: GC-MS profiles for sum of Standard L-Glc and D-Glc, and Standard L-2-NHAcGlc.



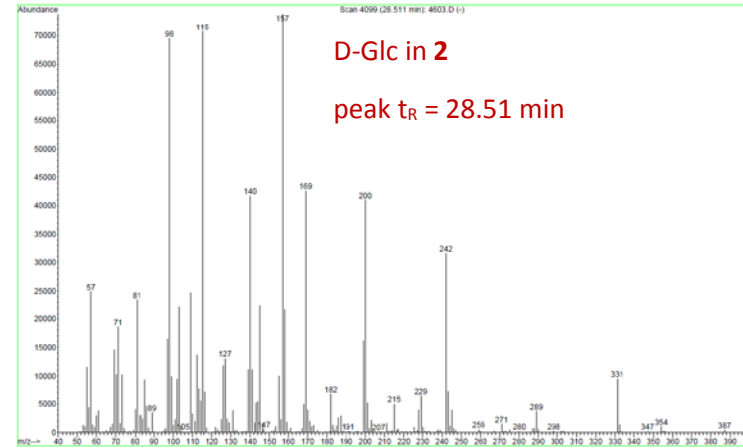
According to the retention times (t_R) and corresponding mass-spectra, L-monosaccharides were not found among acetylated 2-octylglycosides of hydrolysate products.

S25 Determination of Absolute Configurations of Monosaccharides: EIMS spectra of detected D-Glc and Standard D-Glc.

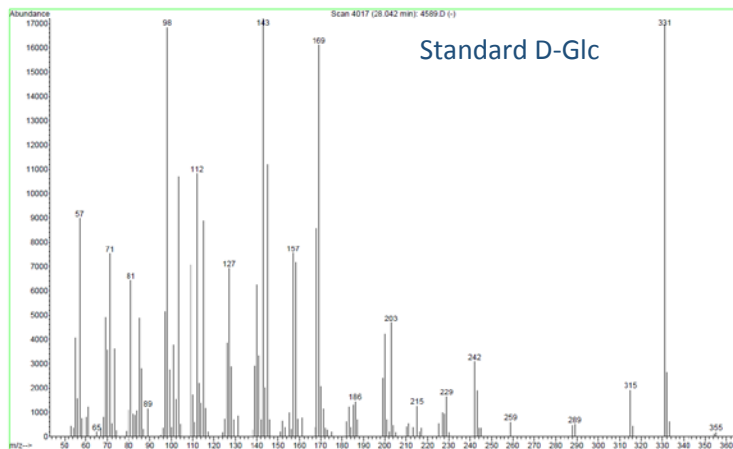
Sample Name: G2.8.3.13
Misc Info : 50 mk1 1 mk1
Vial Number: 1



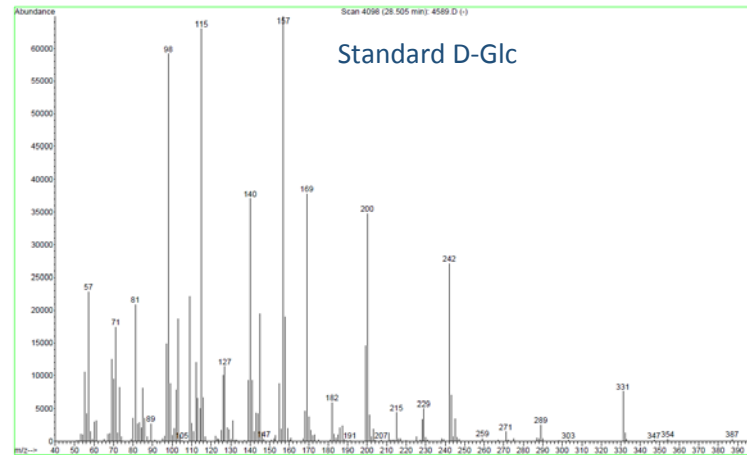
Sample Name: G2.8.3.13
Misc Info : 50 mk1 1 mk1
Vial Number: 1



Sample Name: DGl(-)
Misc Info : 0,2 mg 300 mk1 0,4 mk1
Vial Number: 1

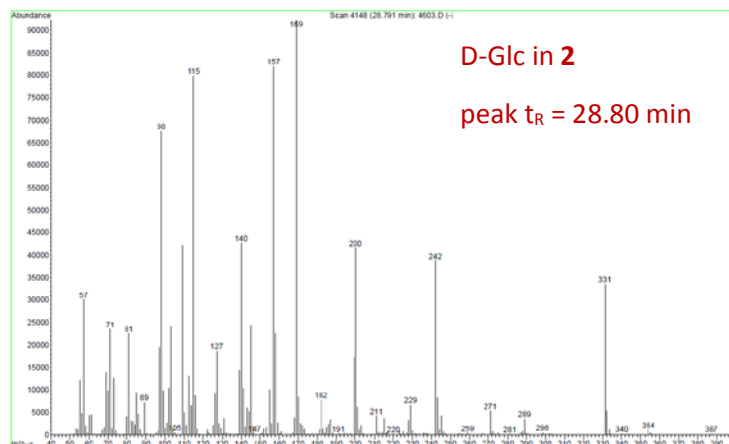


Sample Name: DGl(-)
Misc Info : 0,2 mg 300 mk1 0,4 mk1
Vial Number: 1

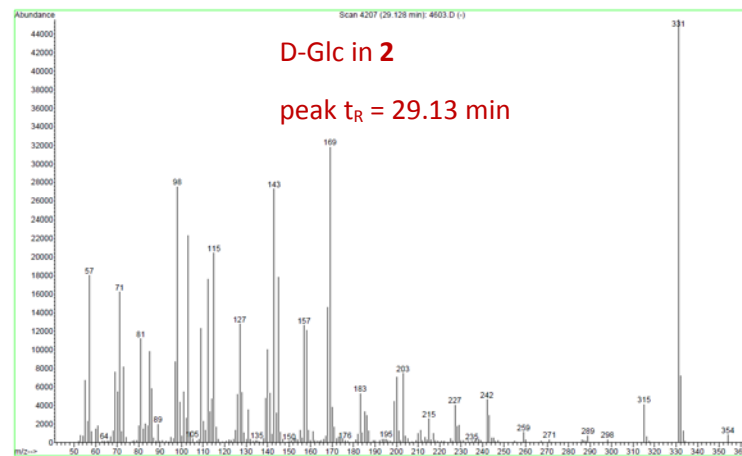


S26 Determination of Absolute Configurations of Monosaccharides: EIMS spectra of detected D-Glc and Standard D-Glc (Continuation).

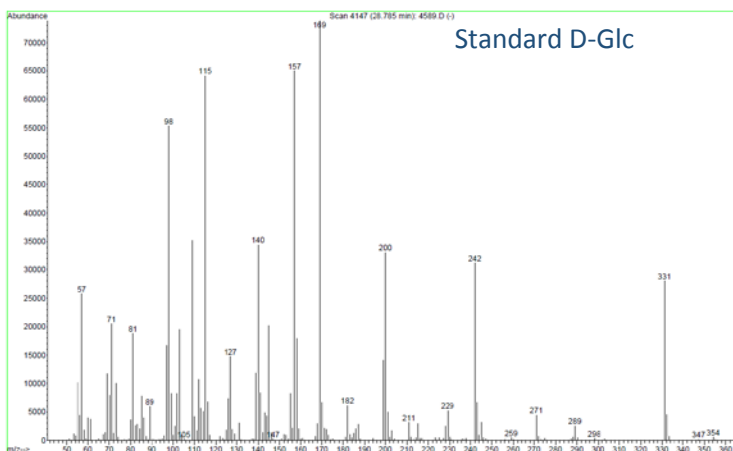
Sample Name: G2.8.3.13
Misc Info : 50 mk1 1 mk1
Vial Number: 1



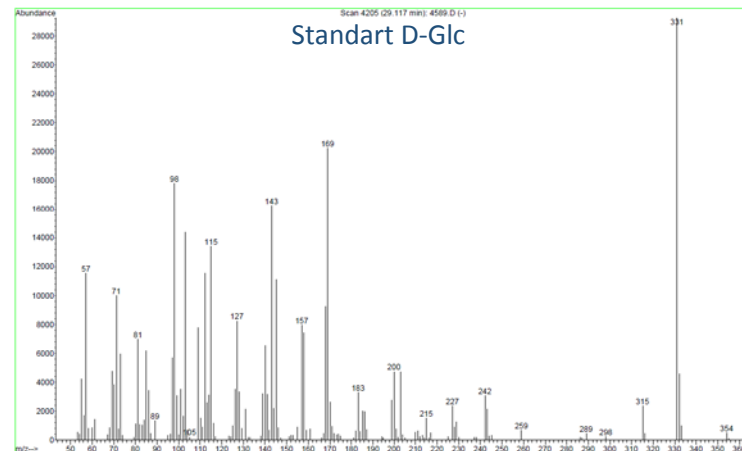
Sample Name: G2.8.3.13
Misc Info : 50 mk1 1 mk1
Vial Number: 1



Sample Name: DGlC(-)
Misc Info : 0.2 mg 300 mk1 0.4 mk1
Vial Number: 1

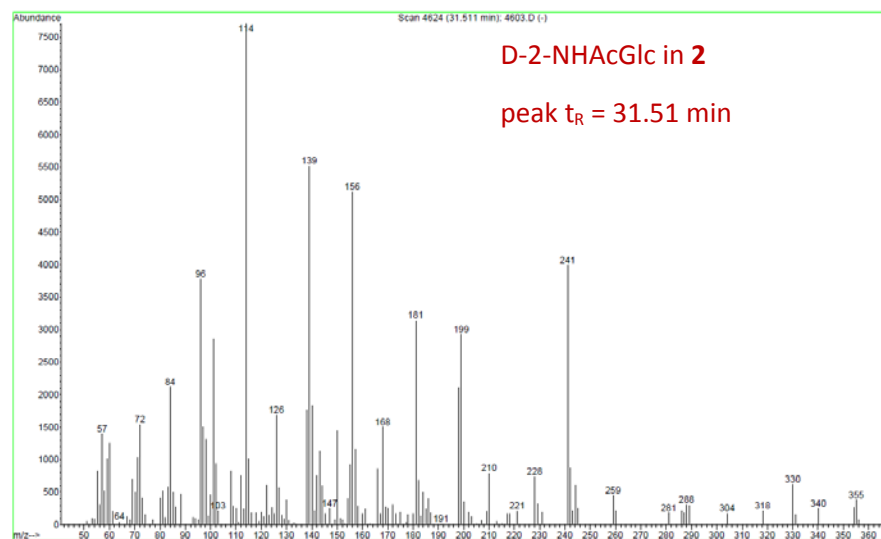


Sample Name: DGlC(-)
Misc Info : 0.2 mg 300 mk1 0.4 mk1
Vial Number: 1

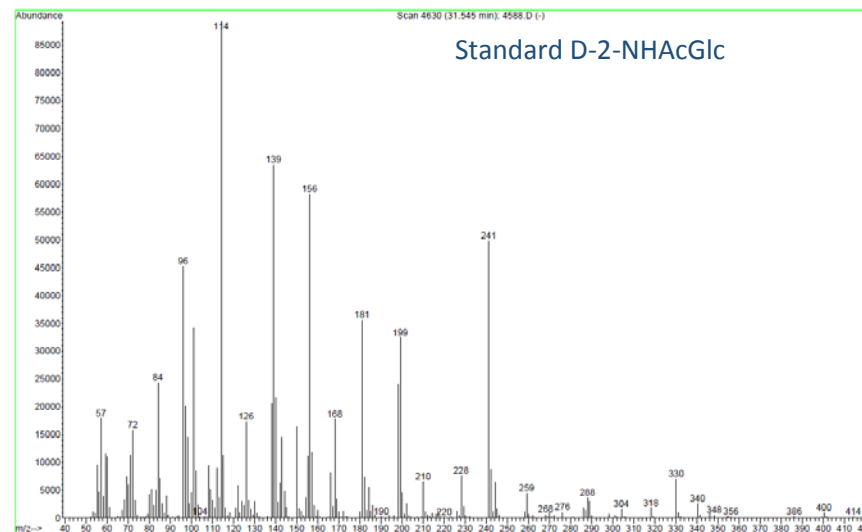


S27 Determination of Absolute Configurations of Monosaccharides: EIMS spectra of detected D-2-NHAcGlc and Standard D-2-NHAcGlc.

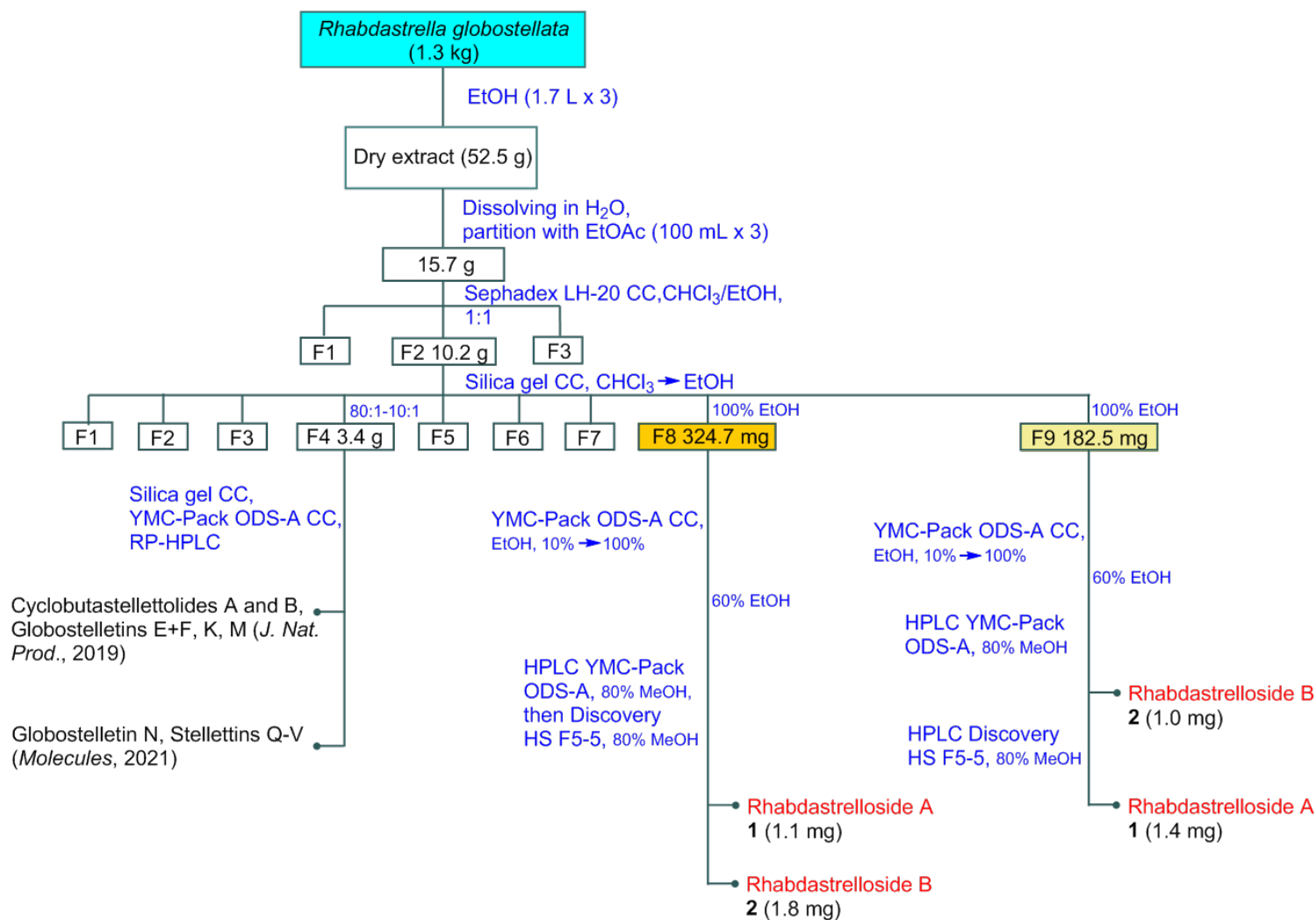
Sample Name: G2.8.3.13
Misc Info : 50 mk1 1 mk1
Vial Number: 1



Sample Name: DGlcnAc R(-)
Misc Info : 300 mk1 0,6 mk1
Vial Number: 1



S28 The Isolation Scheme



Cyclobutastellettolides A and B together with known globostelletins M, K, E, F were reported by us in **2019** (*J. Nat. Prod.*, <https://doi.org/10.1021/acs.jnatprod.9b00824>), and series of stellettins Q-V, along with known globostelletin N, was described in **2021** (*Molecules*, <https://doi.org/10.3390/molecules26030678>).