

Supporting Information

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Rare 1,2'-binaphthyls produced by *Nodulisporium hinnuleum* Smith (ATCC 36102)

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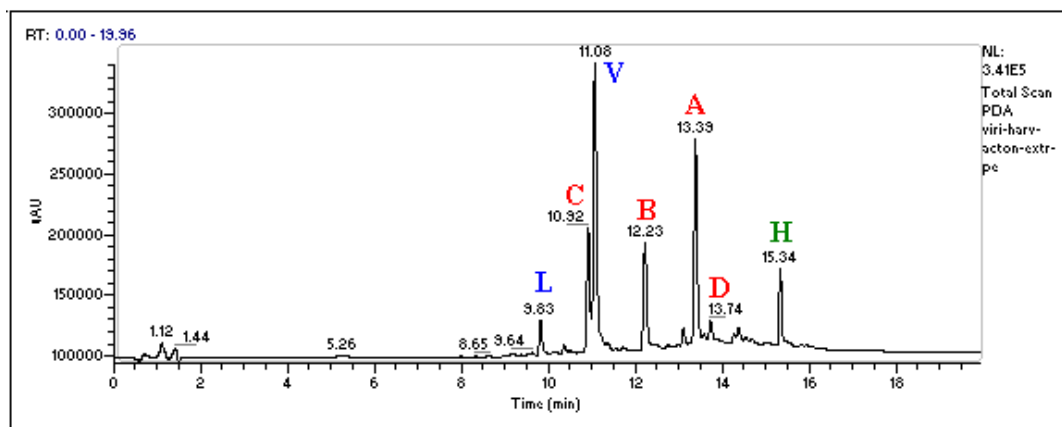
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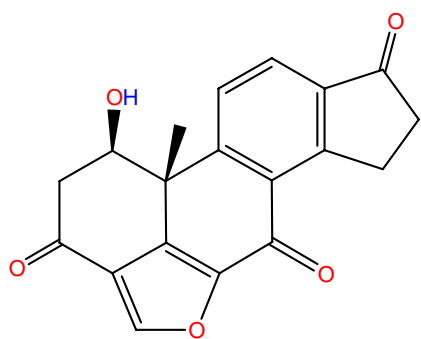
Metabolites produced by *Nodulisporium hinnuleum* Smith (ATCC 36102):



rt	known metabolites	rt	hinnulin
11.08	V = demethoxyviridin (MW 322)	13.39	A = MW 348
9.83	L = demethoxyviridiol (MW 324)	12.23	B = MW 350
15.34	H = hinnuliquinone (MW 506)	10.92	C = MW 352
		13.74	D = MW 316

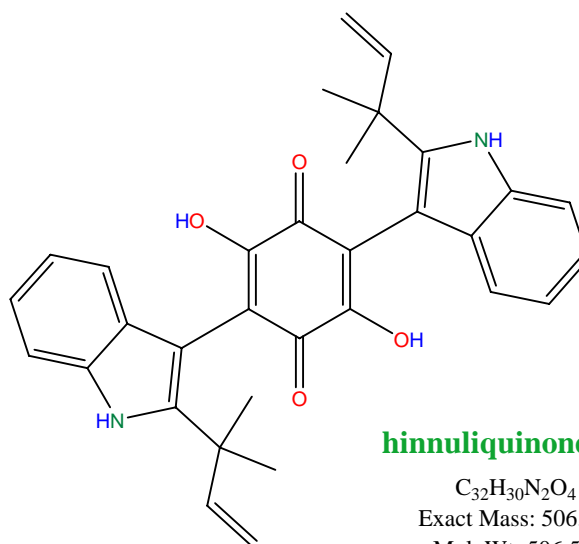
Figure S1: HPLC profile of the crude acetone extract containing the hinnulins, demethoxyviridins and hinnuliquinone

Structures of demethoxyviridin (V) and hinnuliquinone (H)



demethoxyviridin (V)

$C_{19}H_{14}O_5$
Exact Mass: 322.08
Mol. Wt.: 322.31



hinnuliquinone (H)

$C_{32}H_{30}N_2O_4$
Exact Mass: 506.22
Mol. Wt.: 506.59

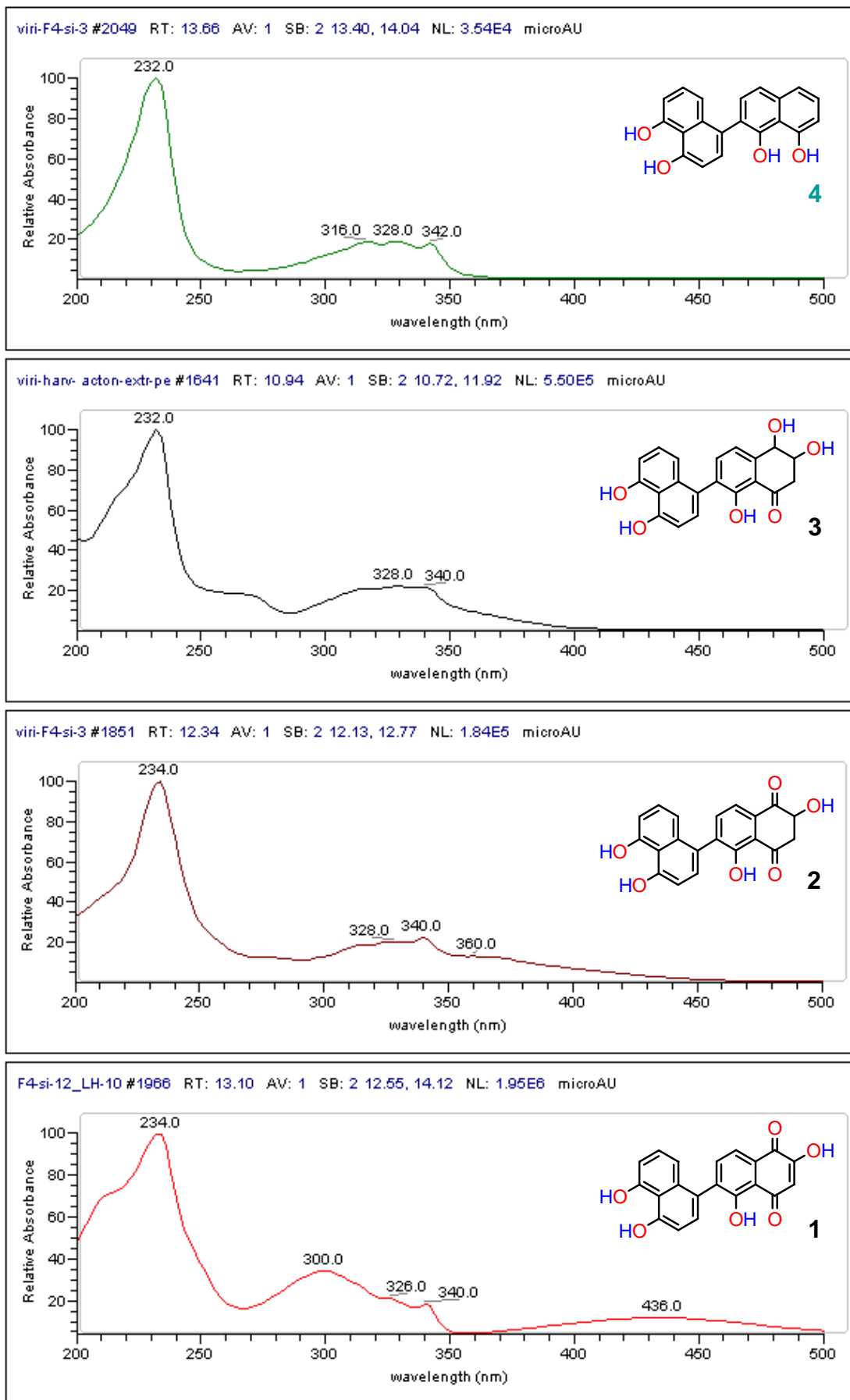
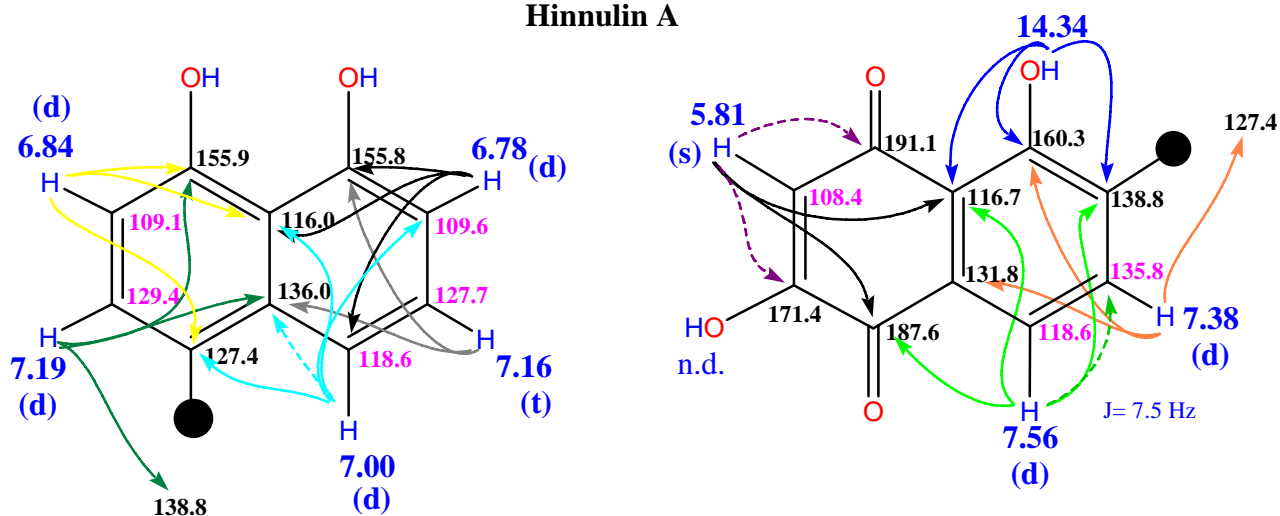


Figure S2: UV spectra and assigned structures of **1-4** (hinnulins A-D)

Structure elucidation based on NMR data analysis:

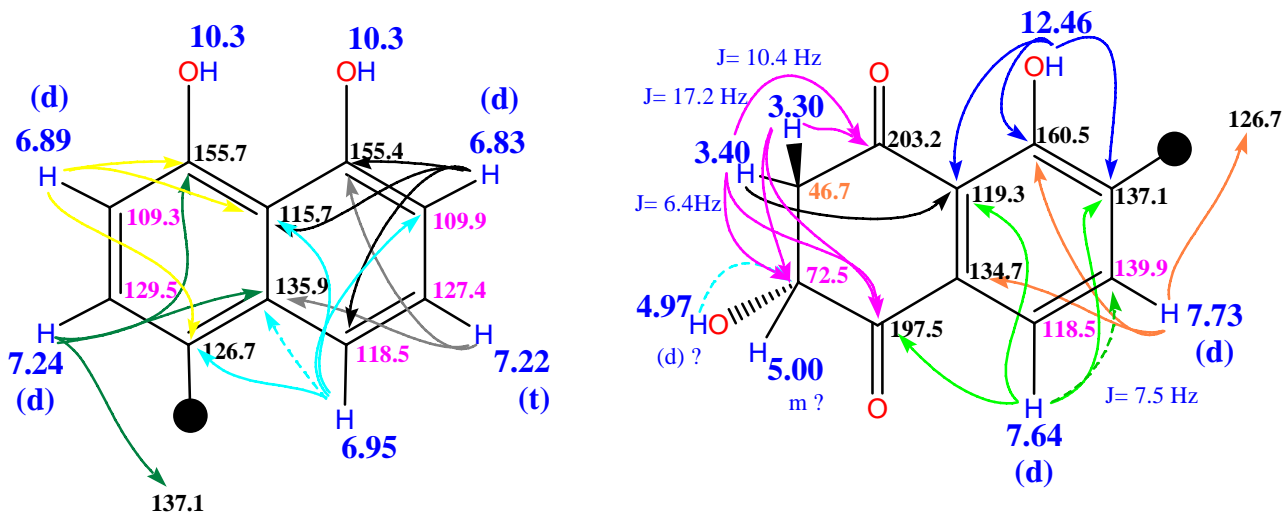
Hinnulin A



subunit 1

subunit 2

Figure S3: Structure assignment of **1** (hinnulin A) from NMR data using observed HMBCs (arrows). [The chemical shift values were recorded on an acetone-*d*₆ solution of **1** at 8 mg/mL]

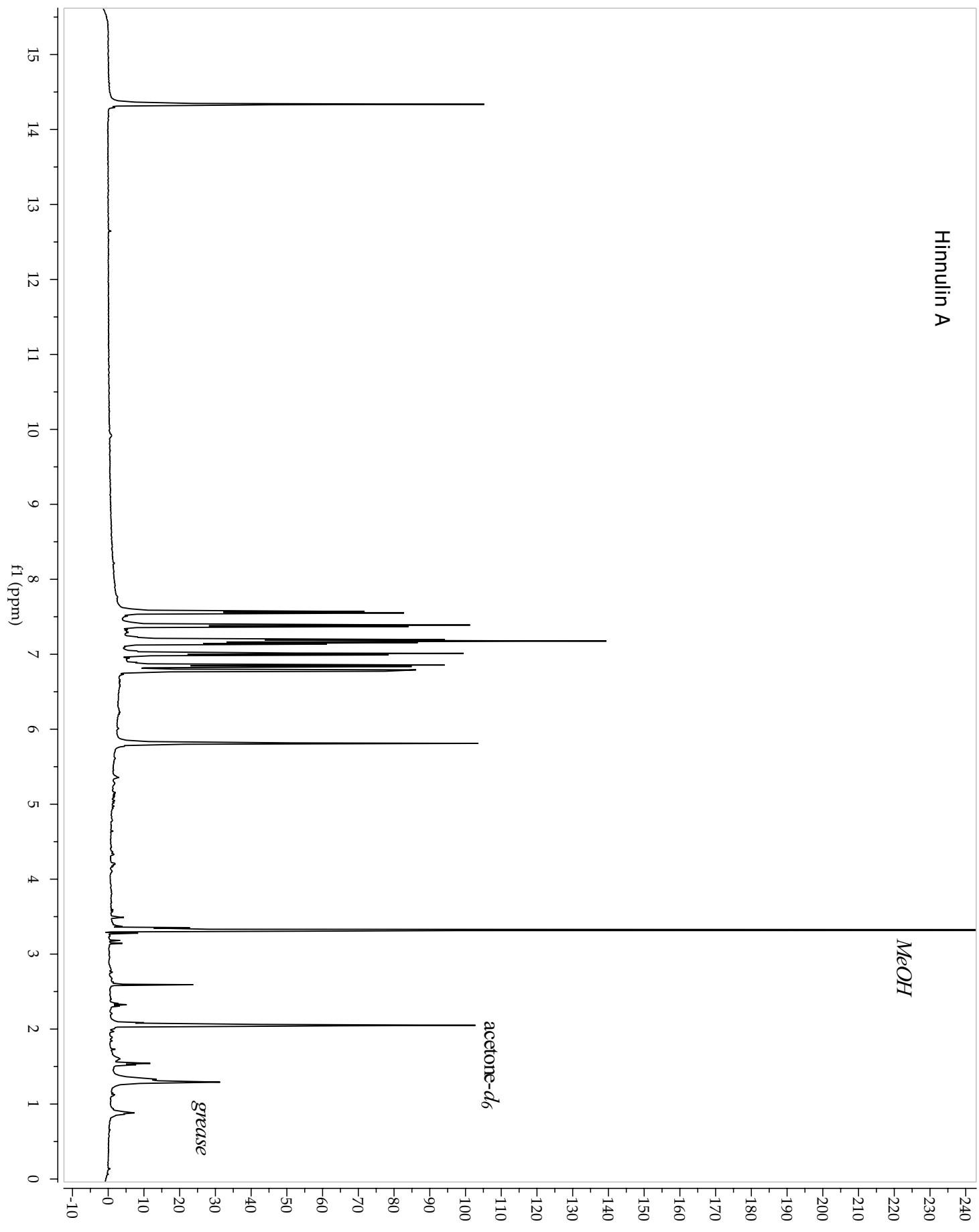


subunit 1

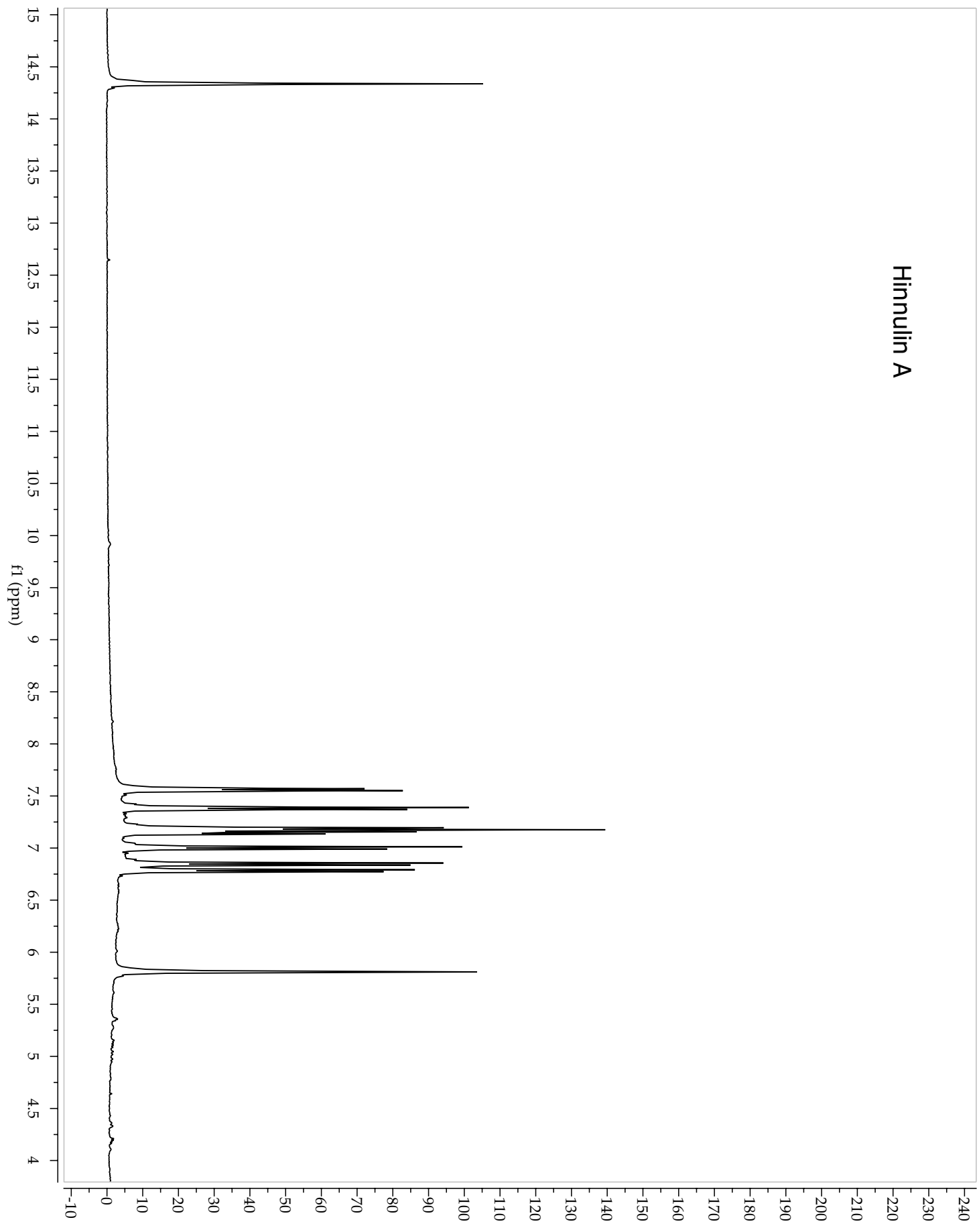
subunit 2

Figure S3a: Structure assignment of **2** (hinnulin B) from NMR data using observed HMBCs (arrows). (for ¹H-NMR, ¹H-¹³C HMBC, ¹H-¹³C HSQC, and ¹³C-NMR spectra of **2** see p. S9 – S13)

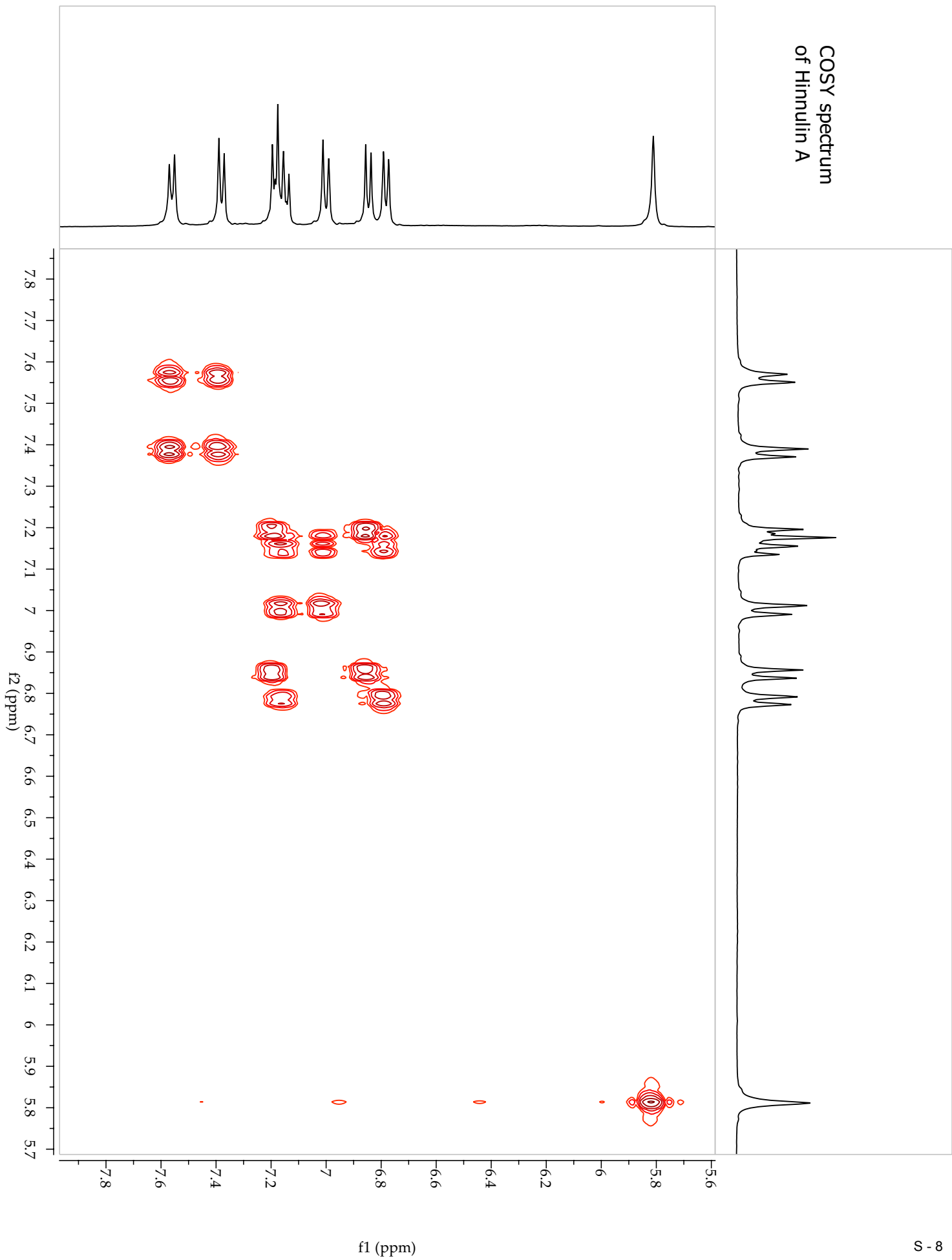
Hinnulin A



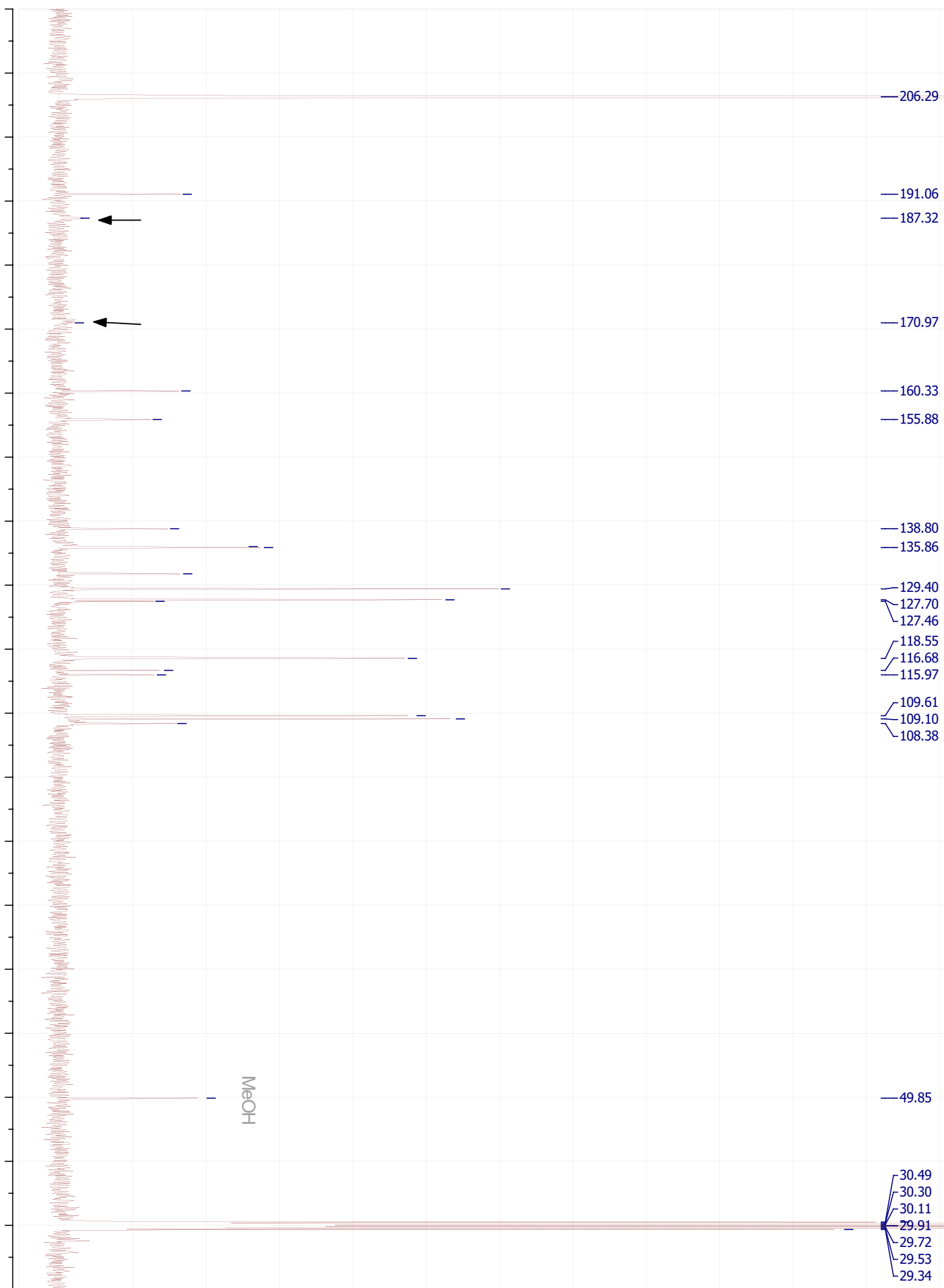
Hinnulin A



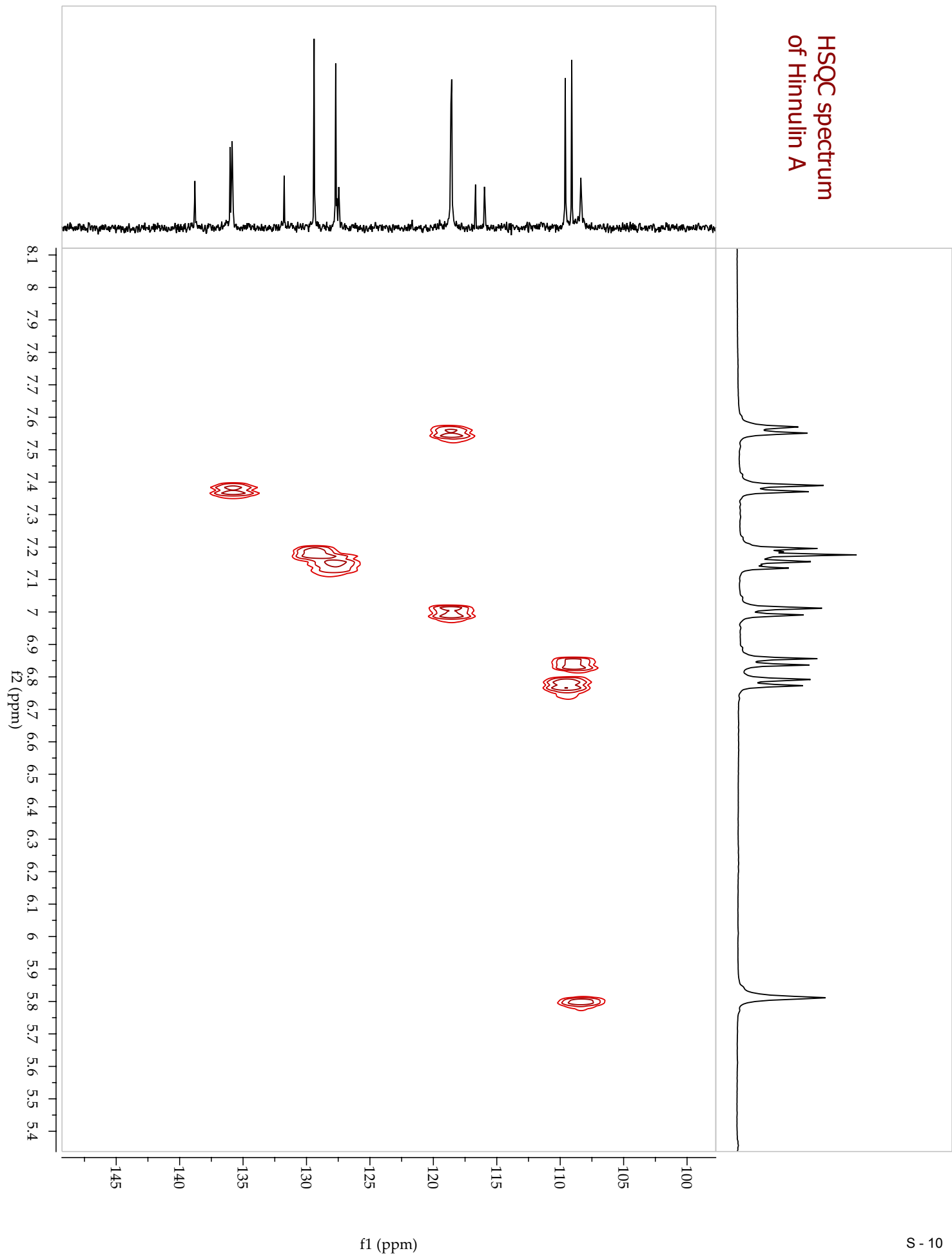
COSY spectrum
of Hinnullin A



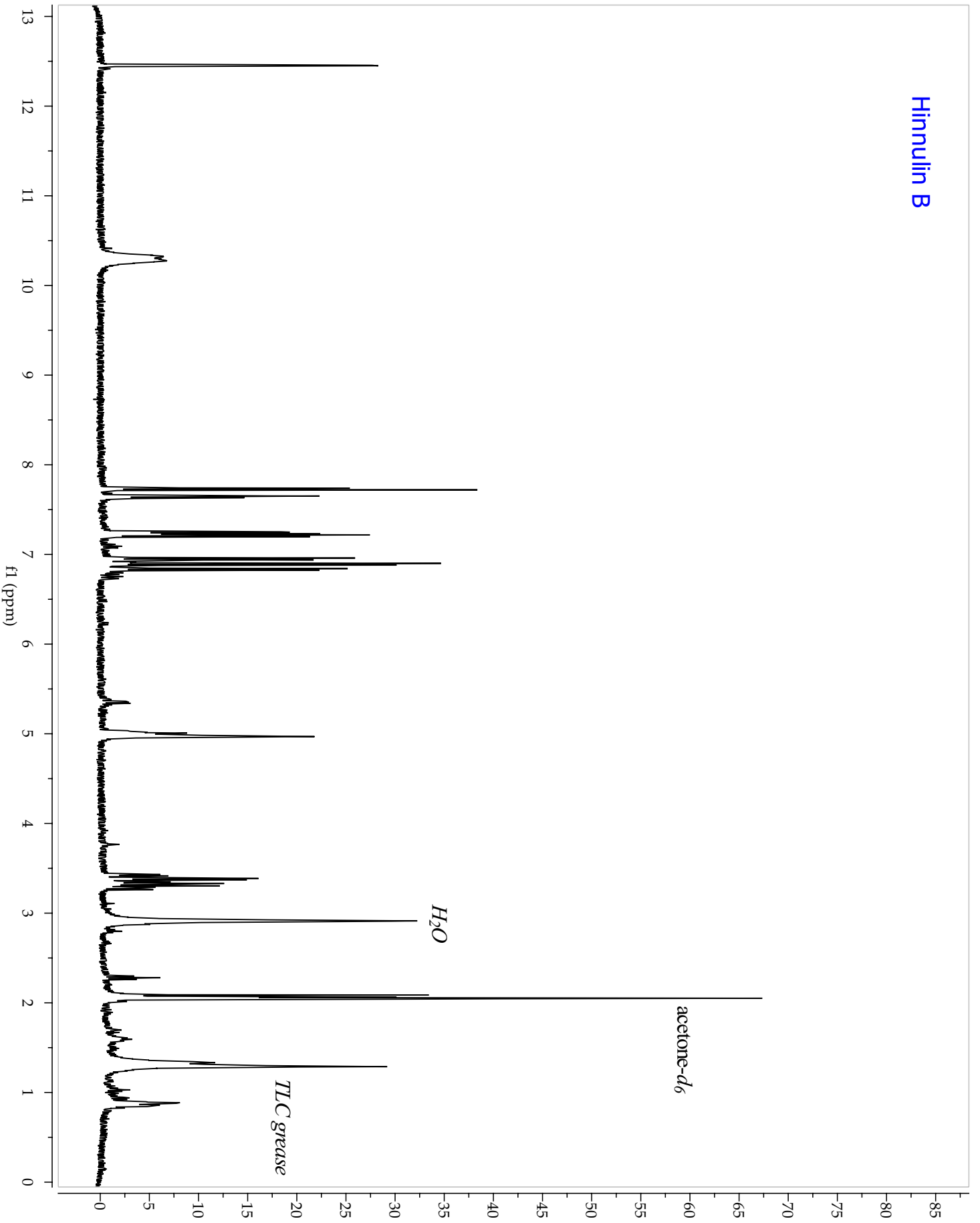
¹³C-spectrum of Hininulin A



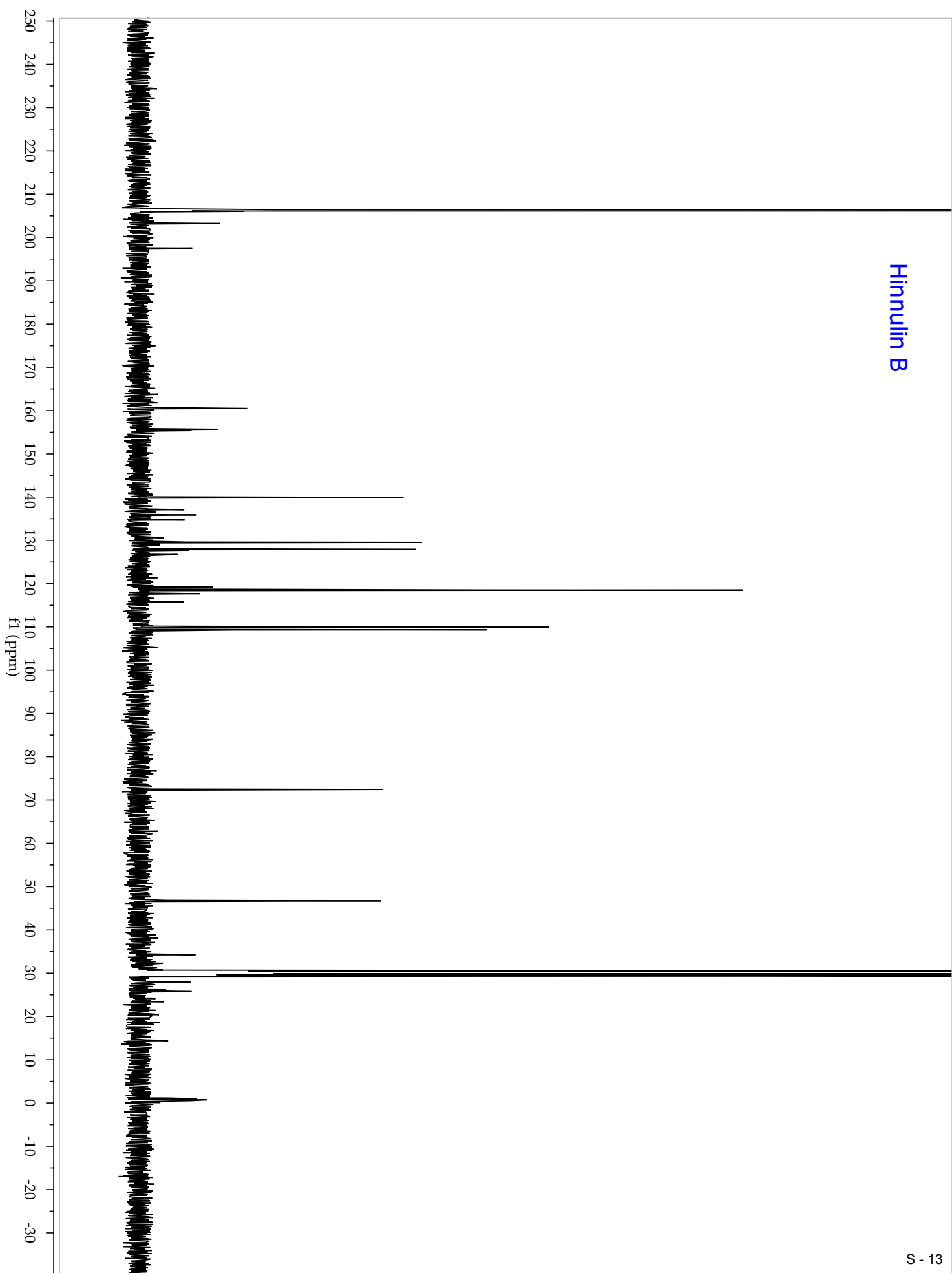
HSQC spectrum
of Himnulin A



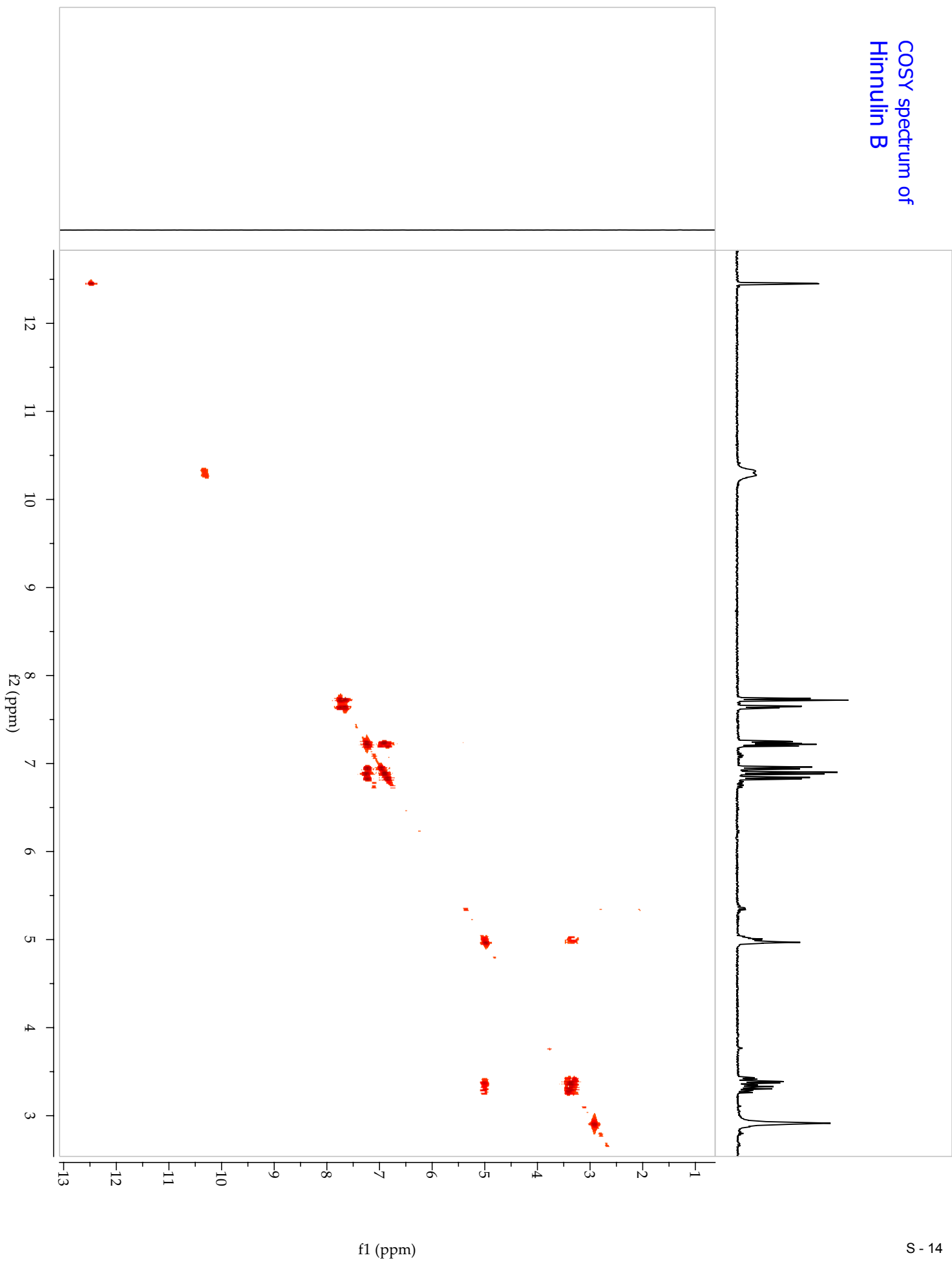
Hinnulin B



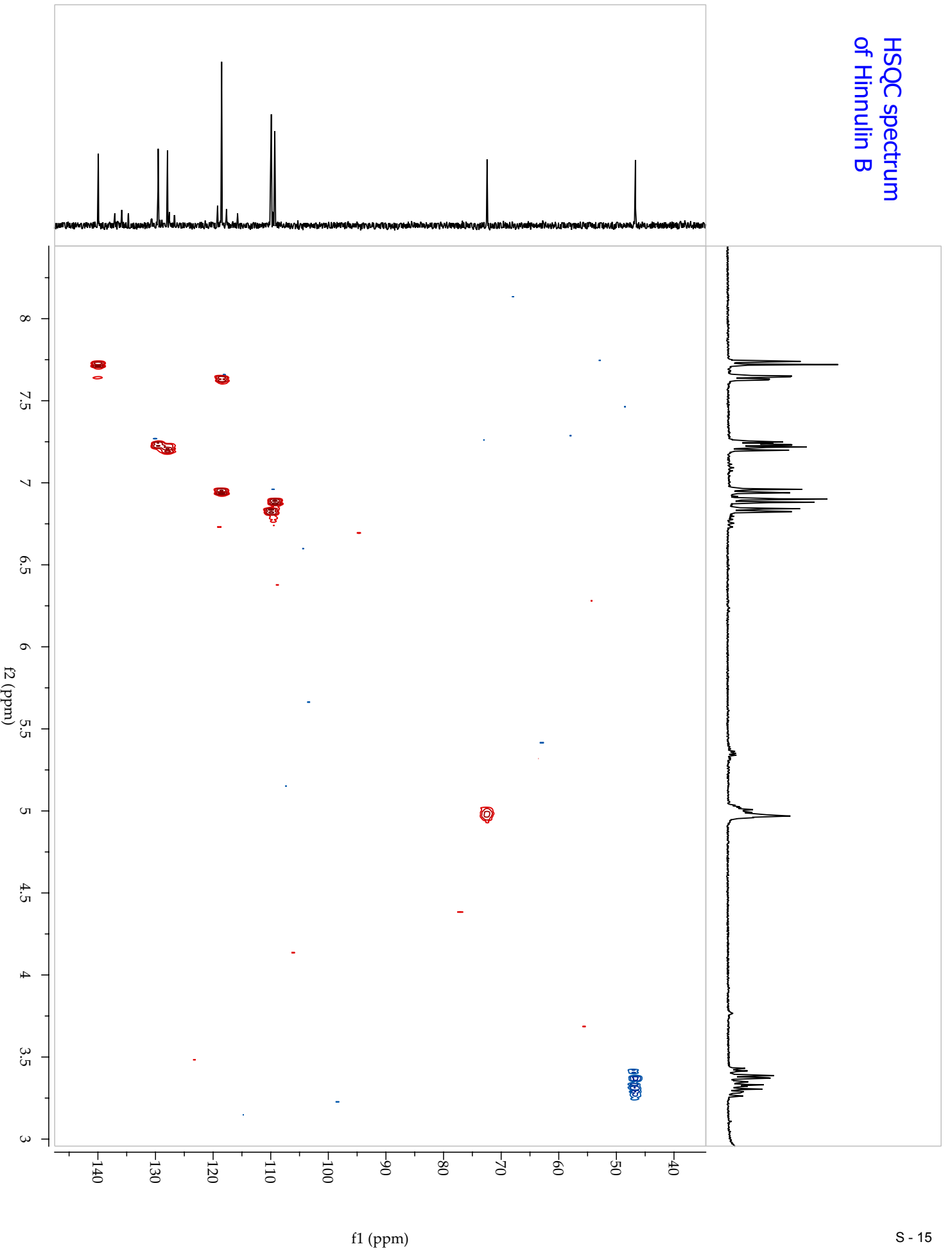
Hinulin B



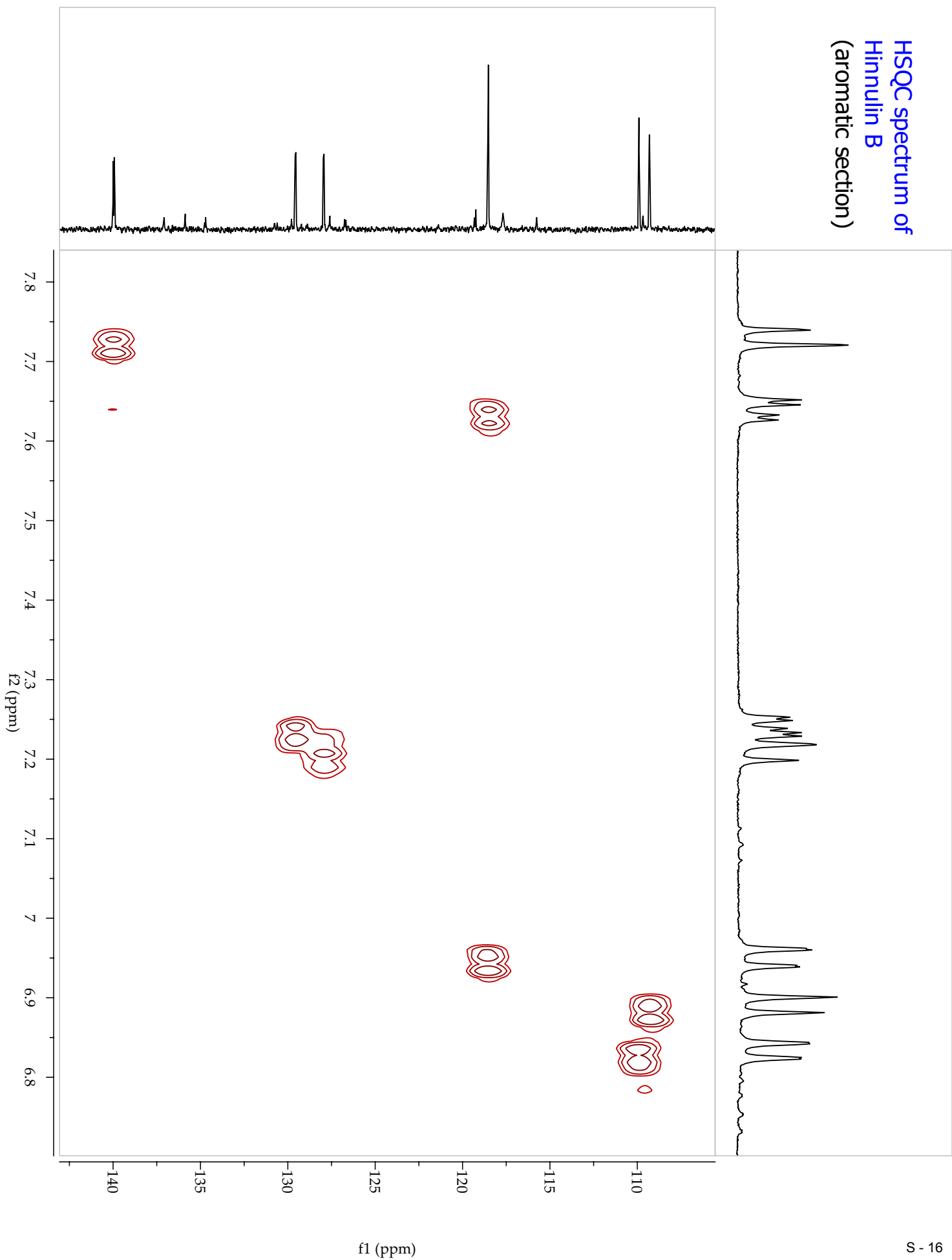
COSY spectrum of
Hinnulin B



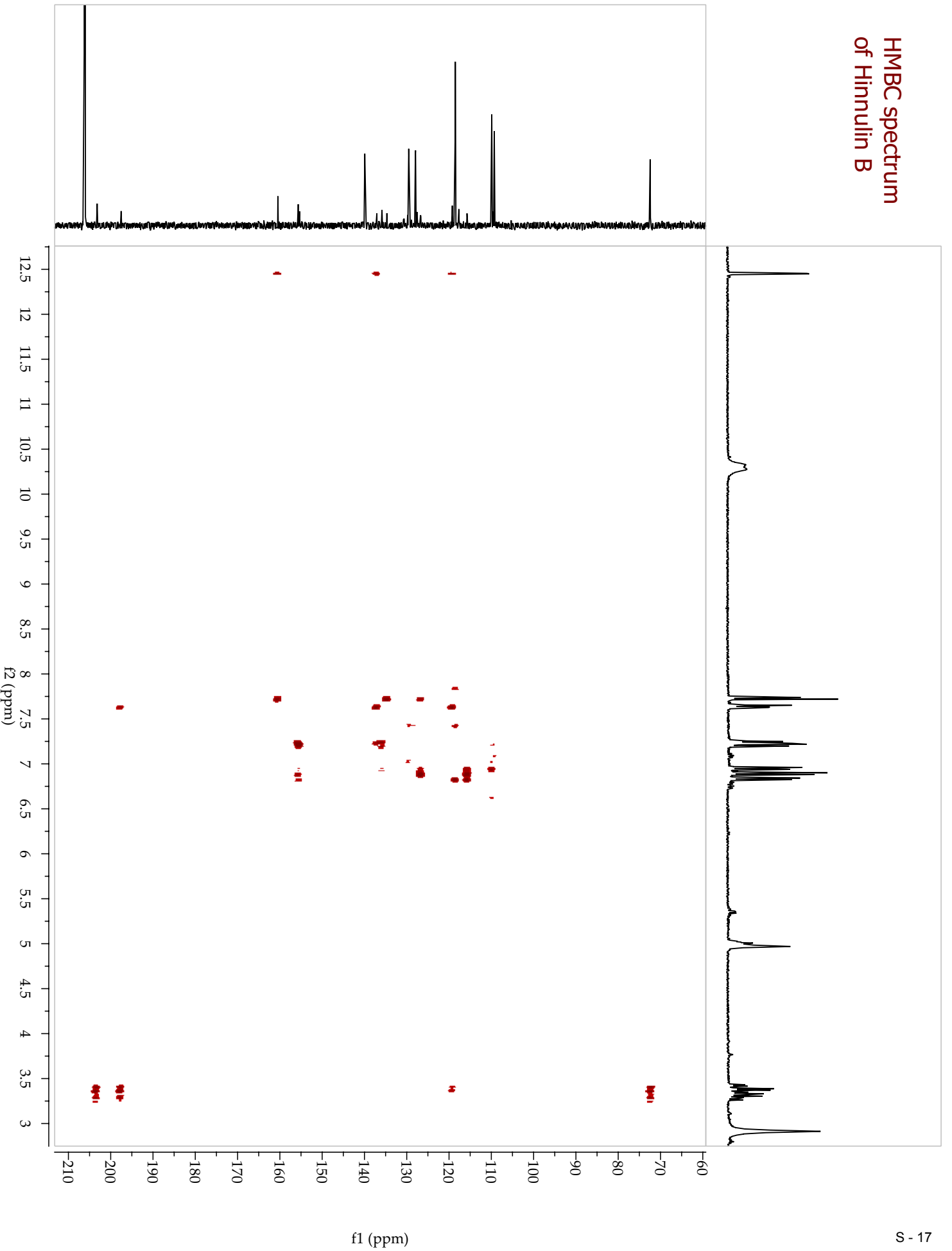
HSQC spectrum
of Hinnulin B



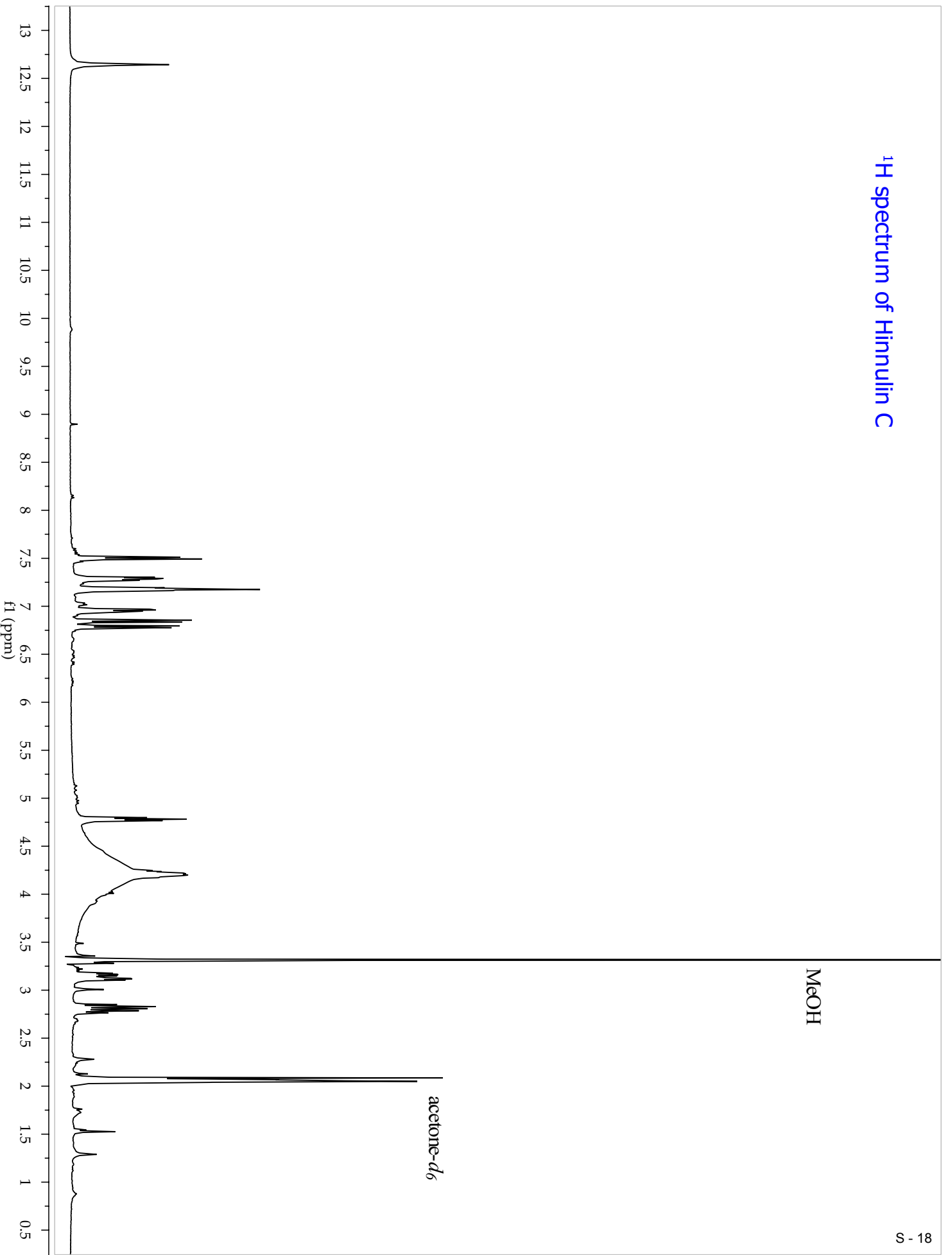
HSQC spectrum of
Hinnulin B
(aromatic section)



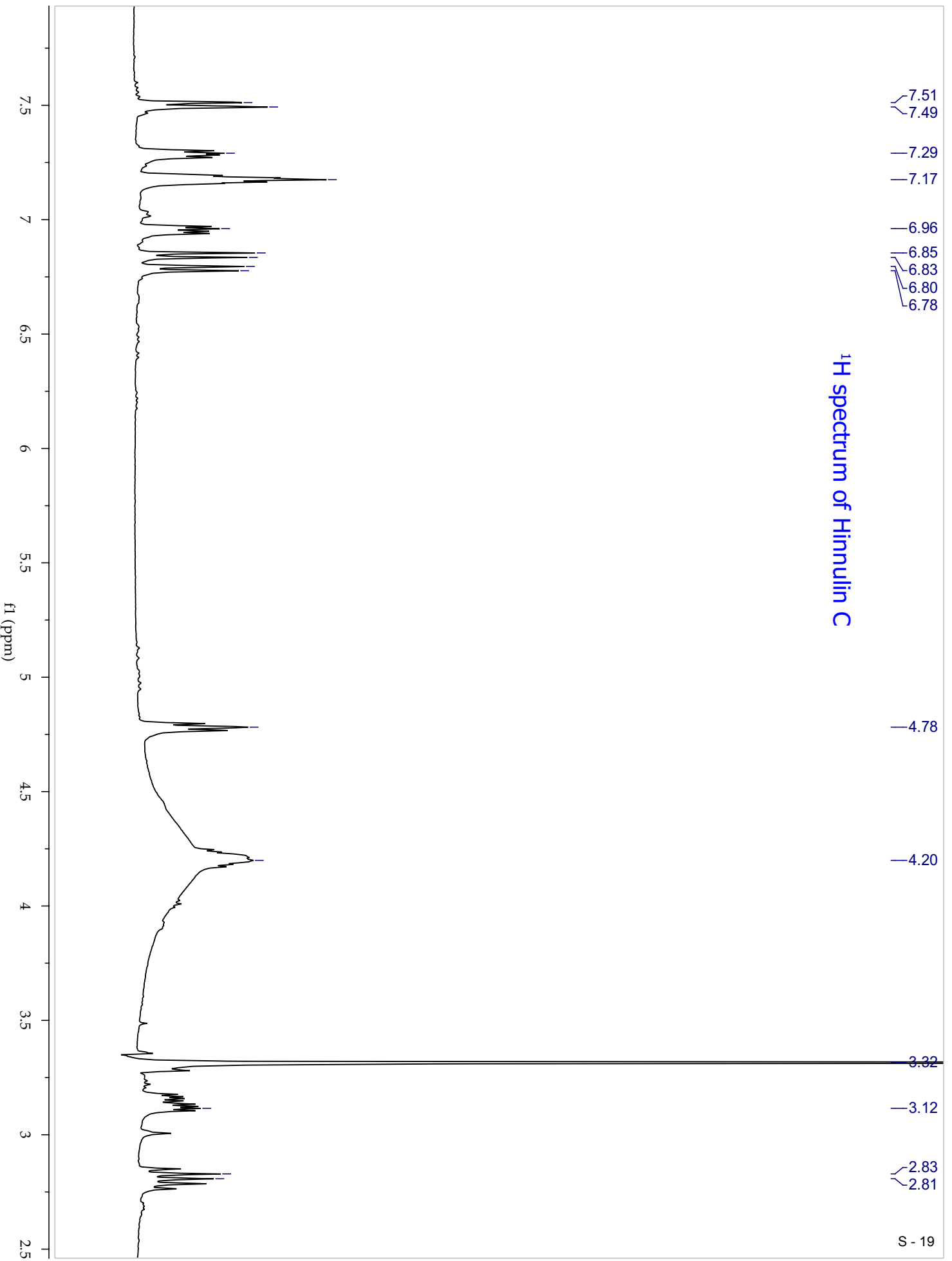
HMBC spectrum
of Hinnulin B



¹H spectrum of Hinnulin C



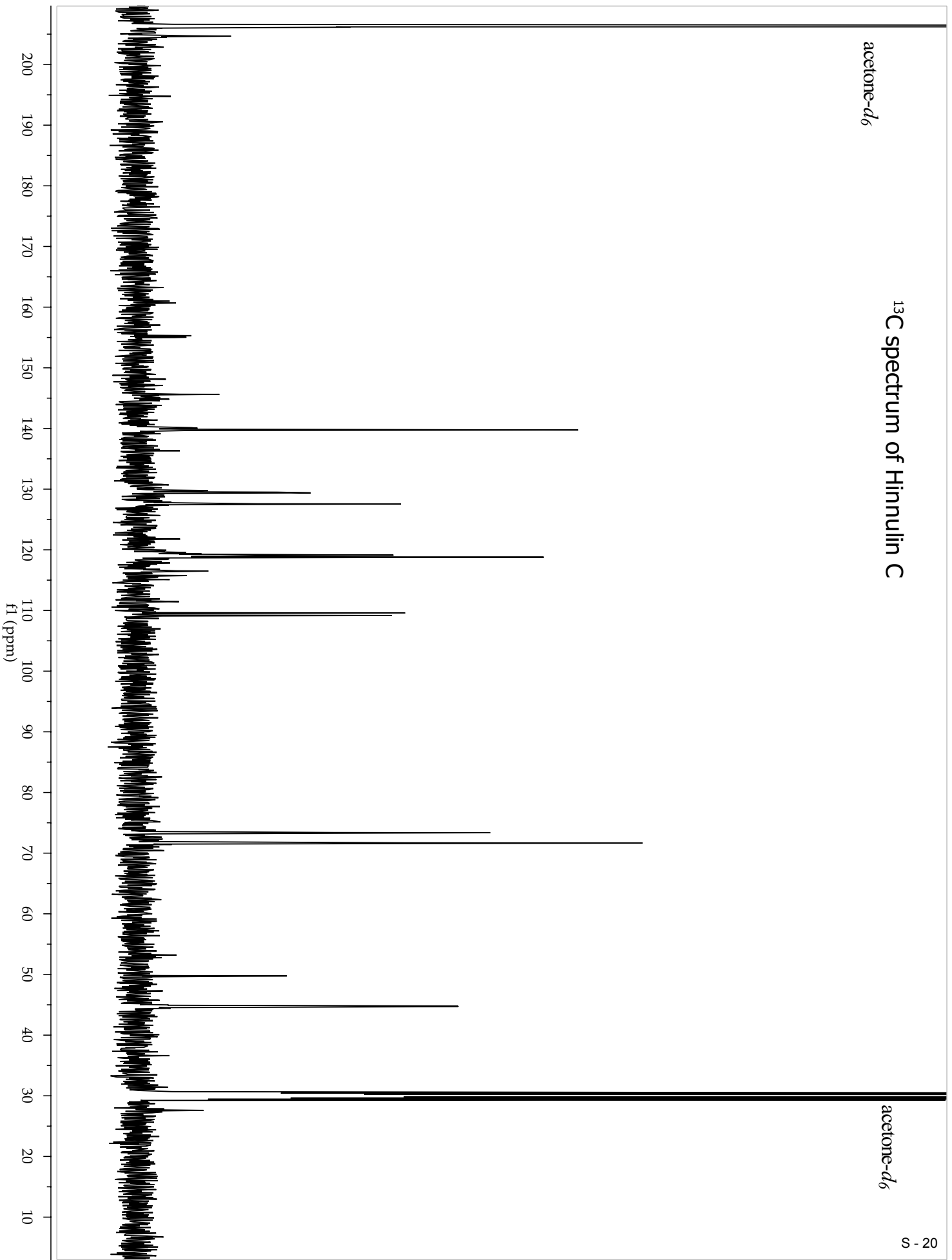
¹H spectrum of Hinnulin C



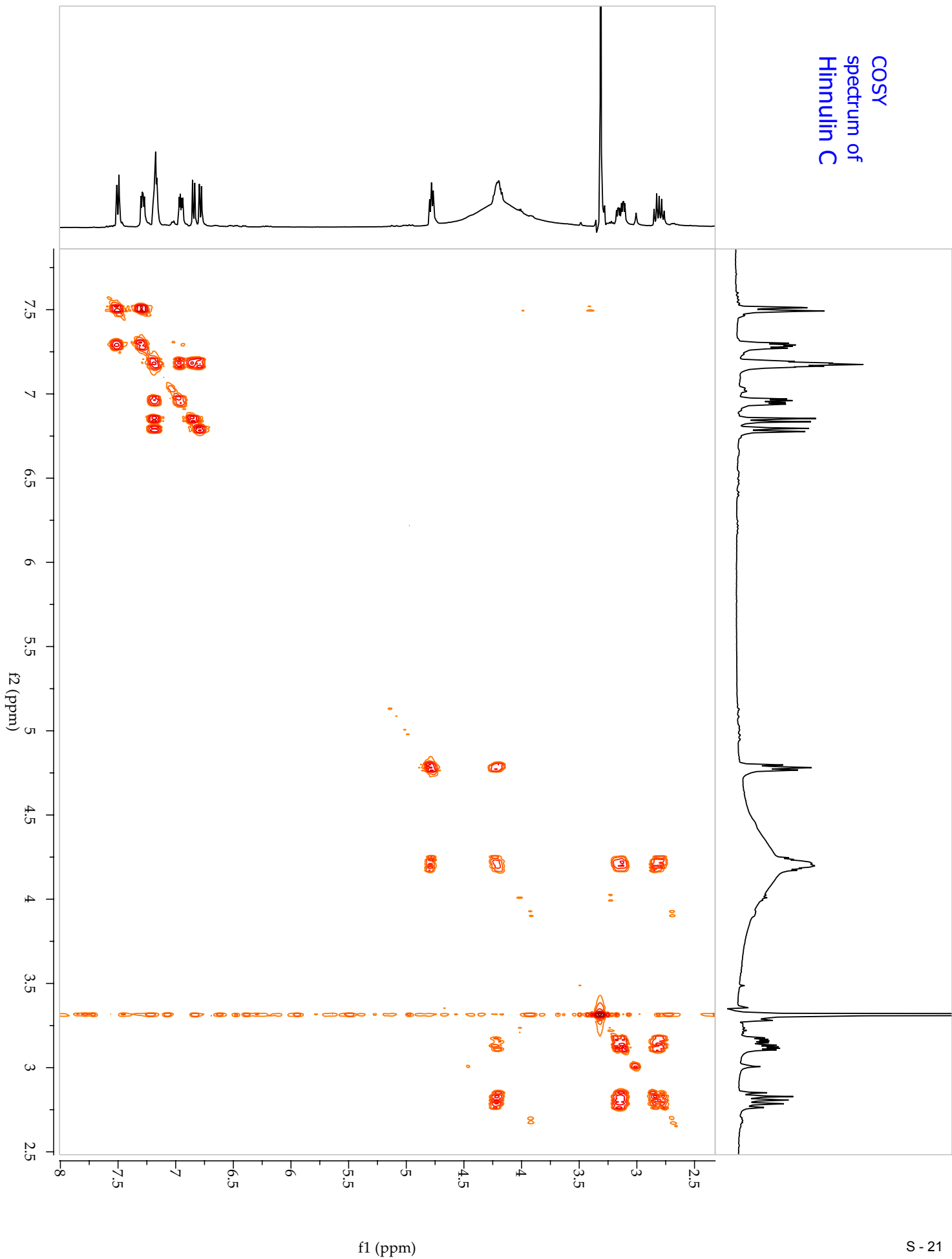
acetone-*d*₆

¹³C spectrum of Hinnulin C

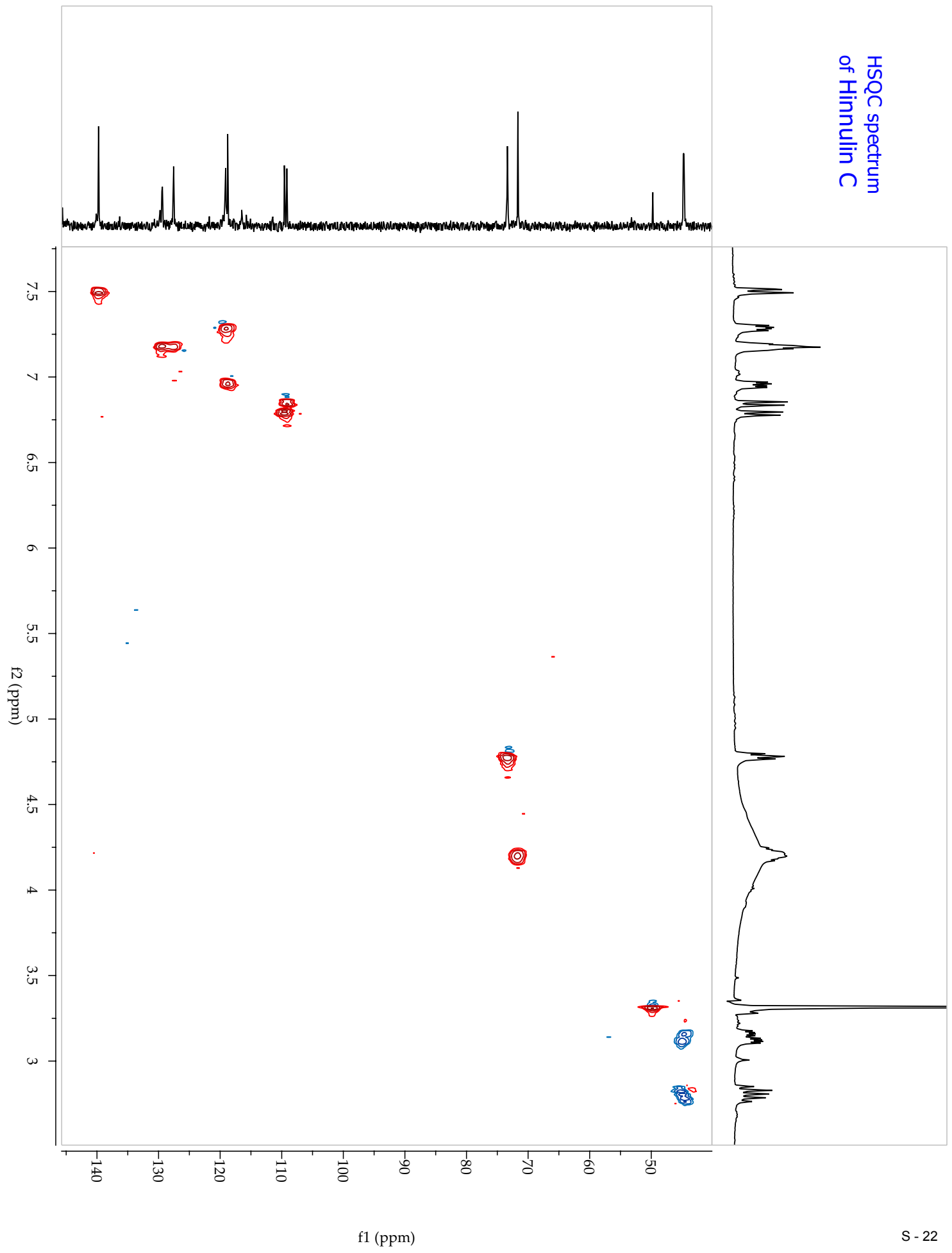
acetone-*d*₆



COSY
spectrum of
Hinulin C



HSQC spectrum
of Himnulin C



HMBC spectrum
of Himnulin C

