

Electronic Supplementary Information for:

High-yielding syntheses of hydrophilic, conjugatable chlorins and bacteriochlorins

Jason R. McCarthy,^{1} Jayeeta Bhaumik,¹ Nabyl Merbouh,² and Ralph Weissleder¹*

1. Center for Molecular Imaging Research and Center for Systems Biology, Harvard Medical School and Massachusetts General Hospital, 149 13th St., Rm 5406, Charlestown, MA 02129,

USA

2. Department of Chemistry, Simon Fraser University, 8888 University Drive, Burnaby,

BC V5A 1S6, Canada

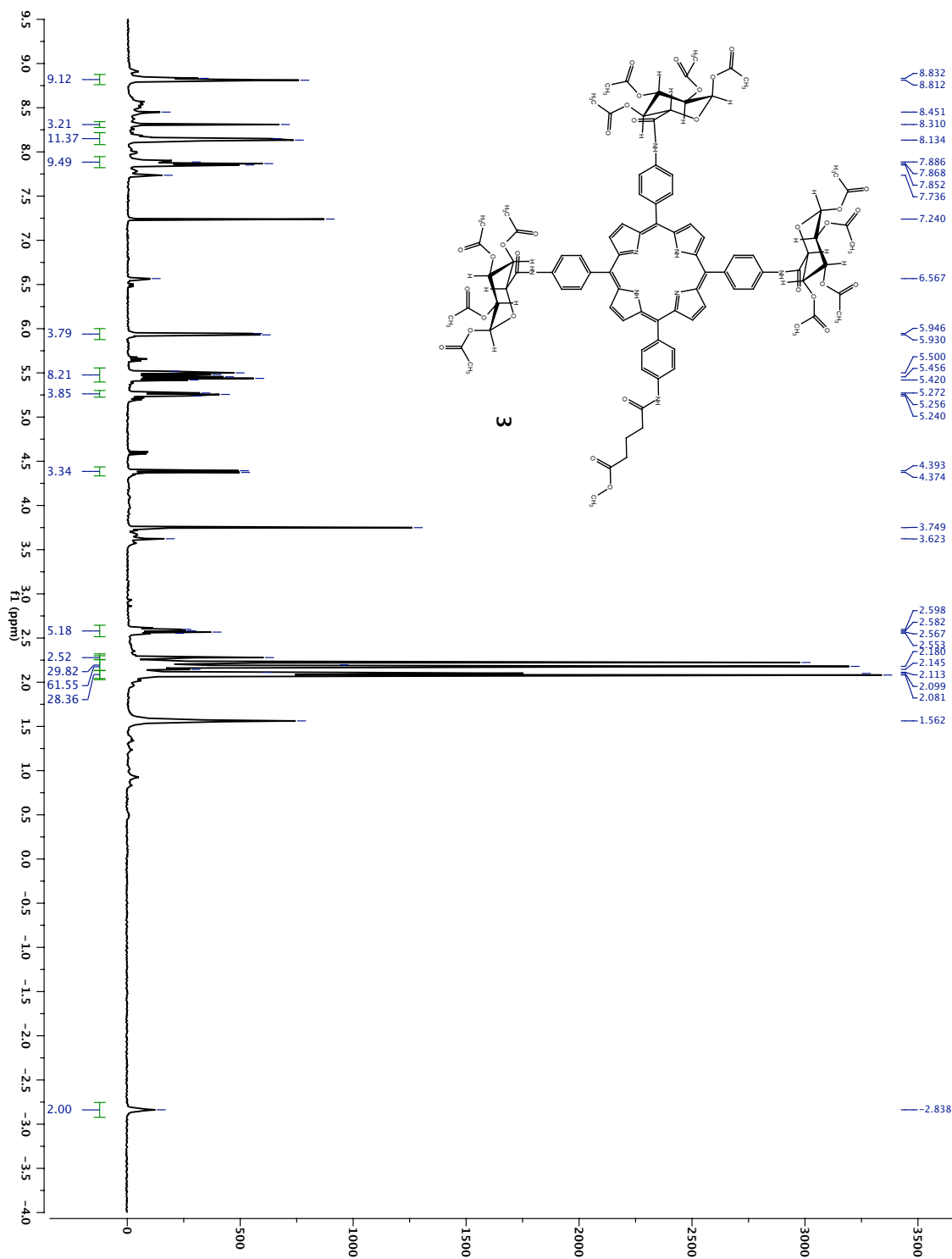
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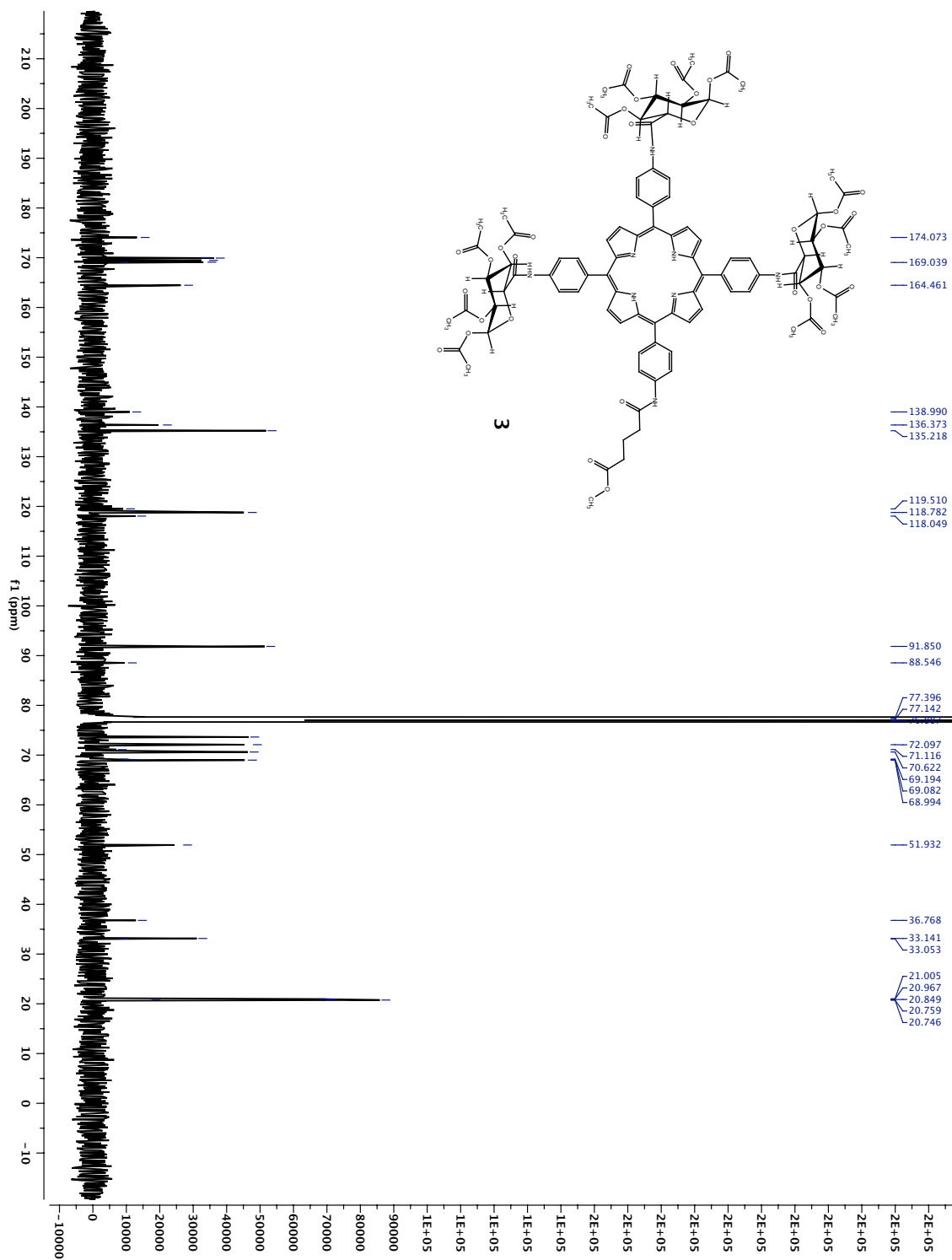
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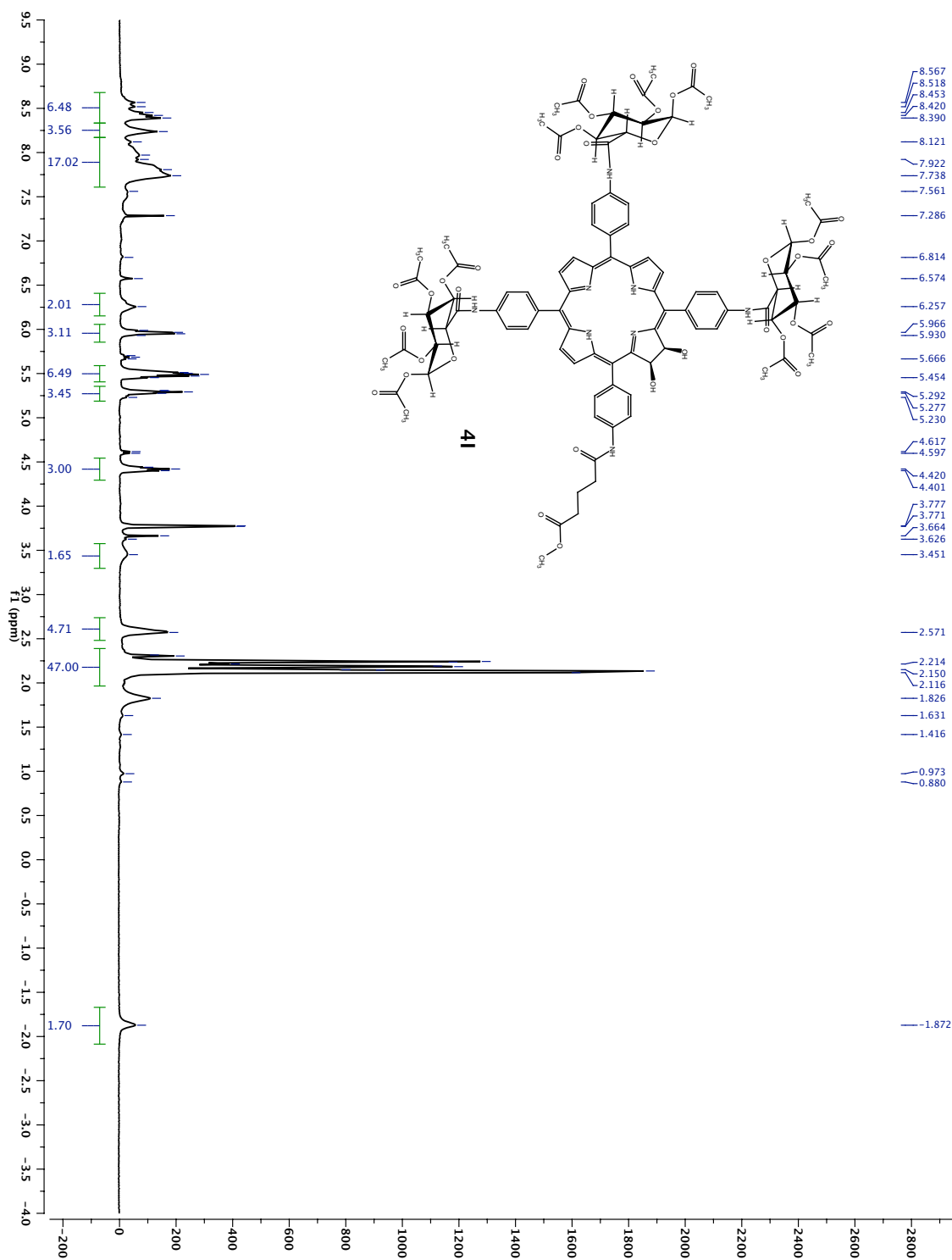
1. General procedure for the hydrolysis of side product in the synthesis of 3.

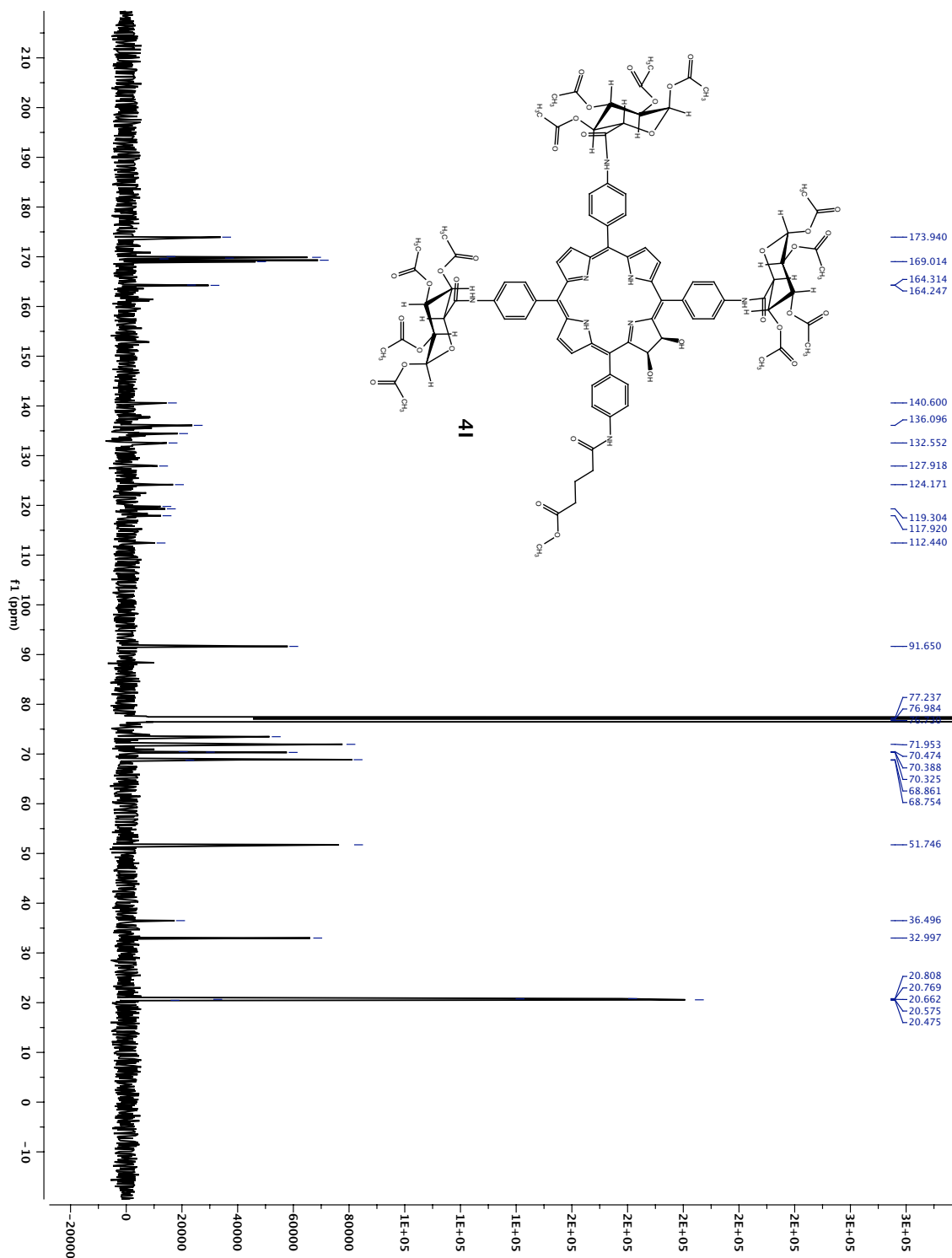
All side products from the synthesis of **3** (~ 5 g) were combined and suspended in ethanol (100 mL). To this was added aq KOH (5 M, 200 mL), and the suspension was refluxed for 18 h, at which point the solution was allowed to cool to RT and was filtered to remove the hydrolyzed product. The porphyrin **1**, was purified as described previously.¹

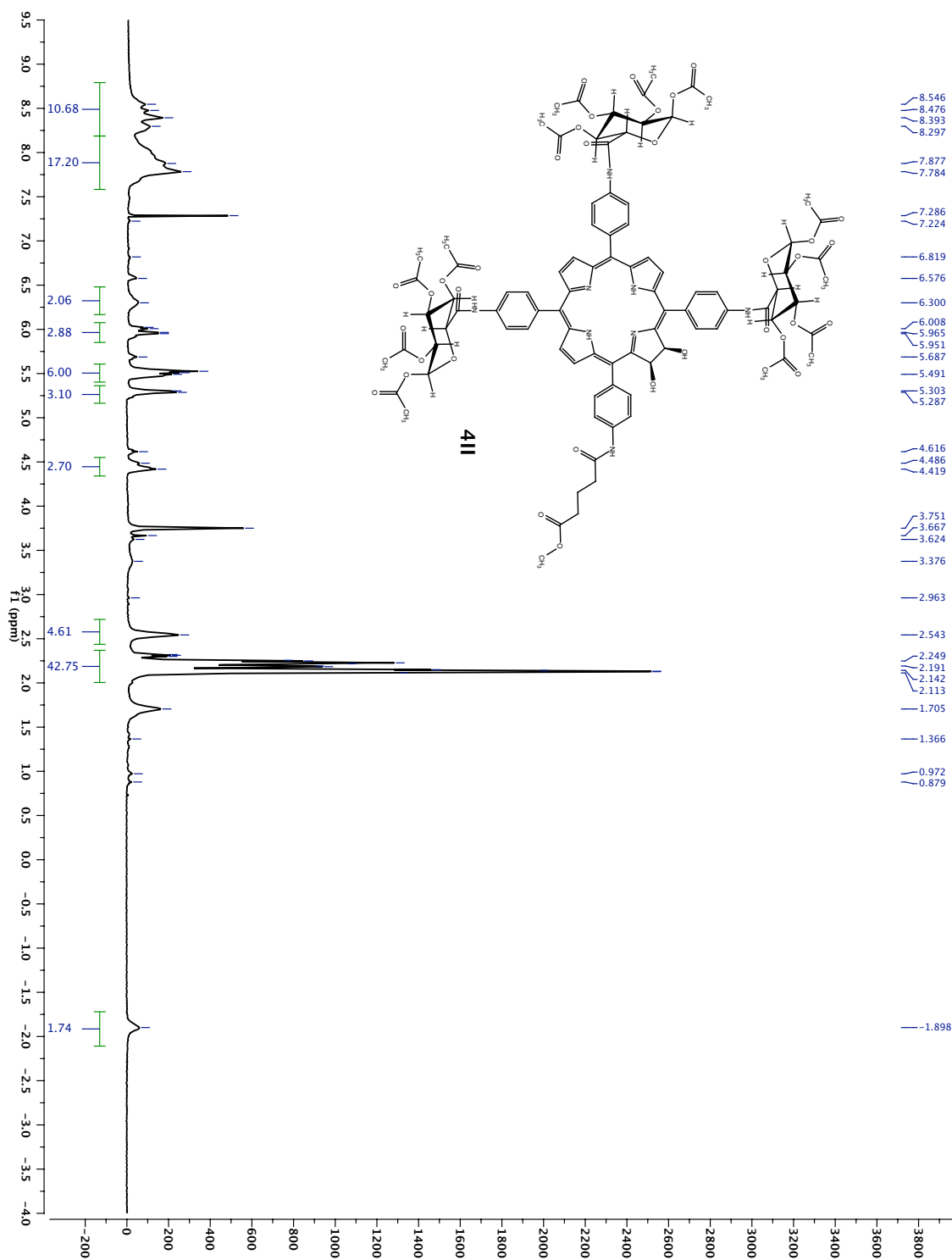
2. NMR spectra and HPLC traces

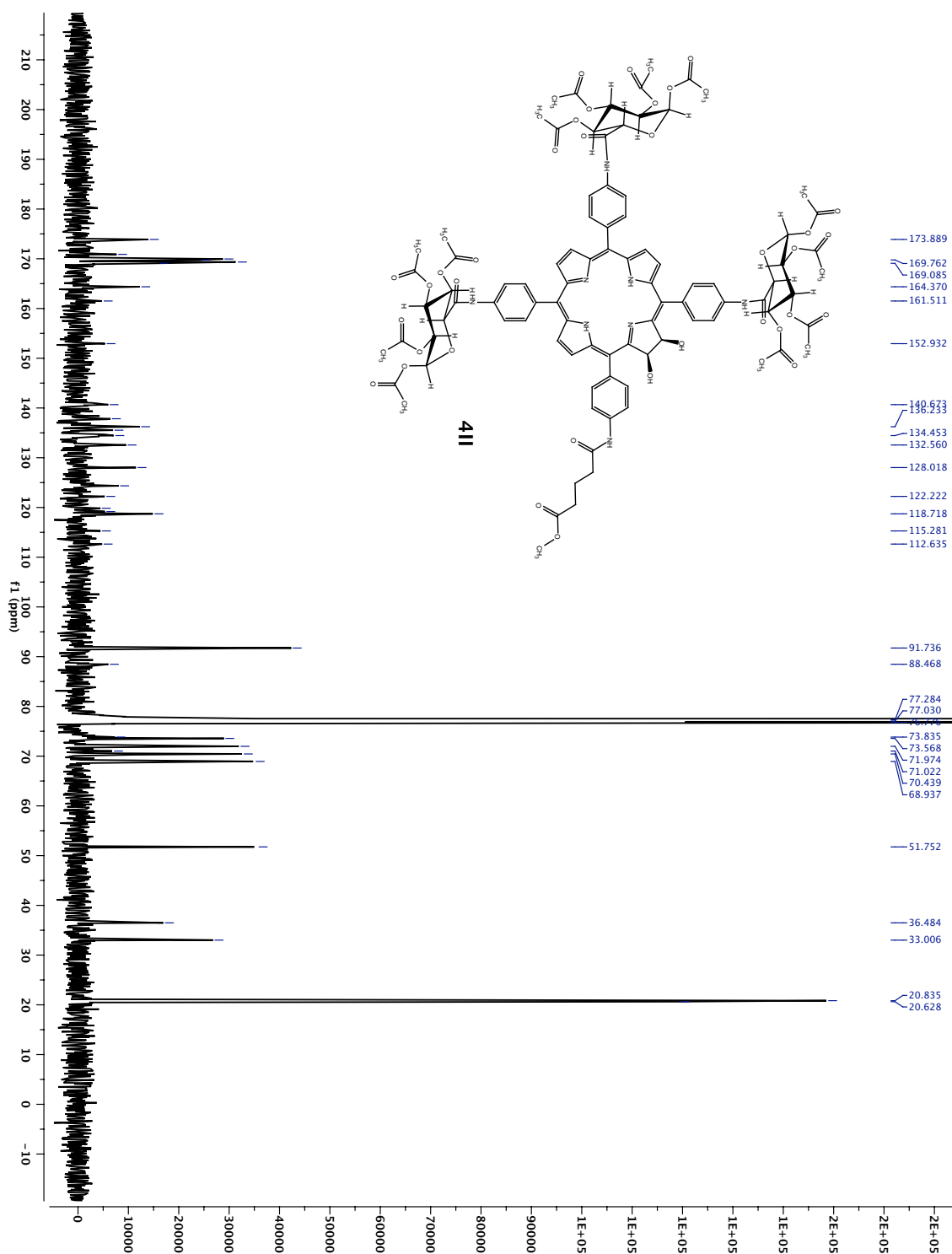


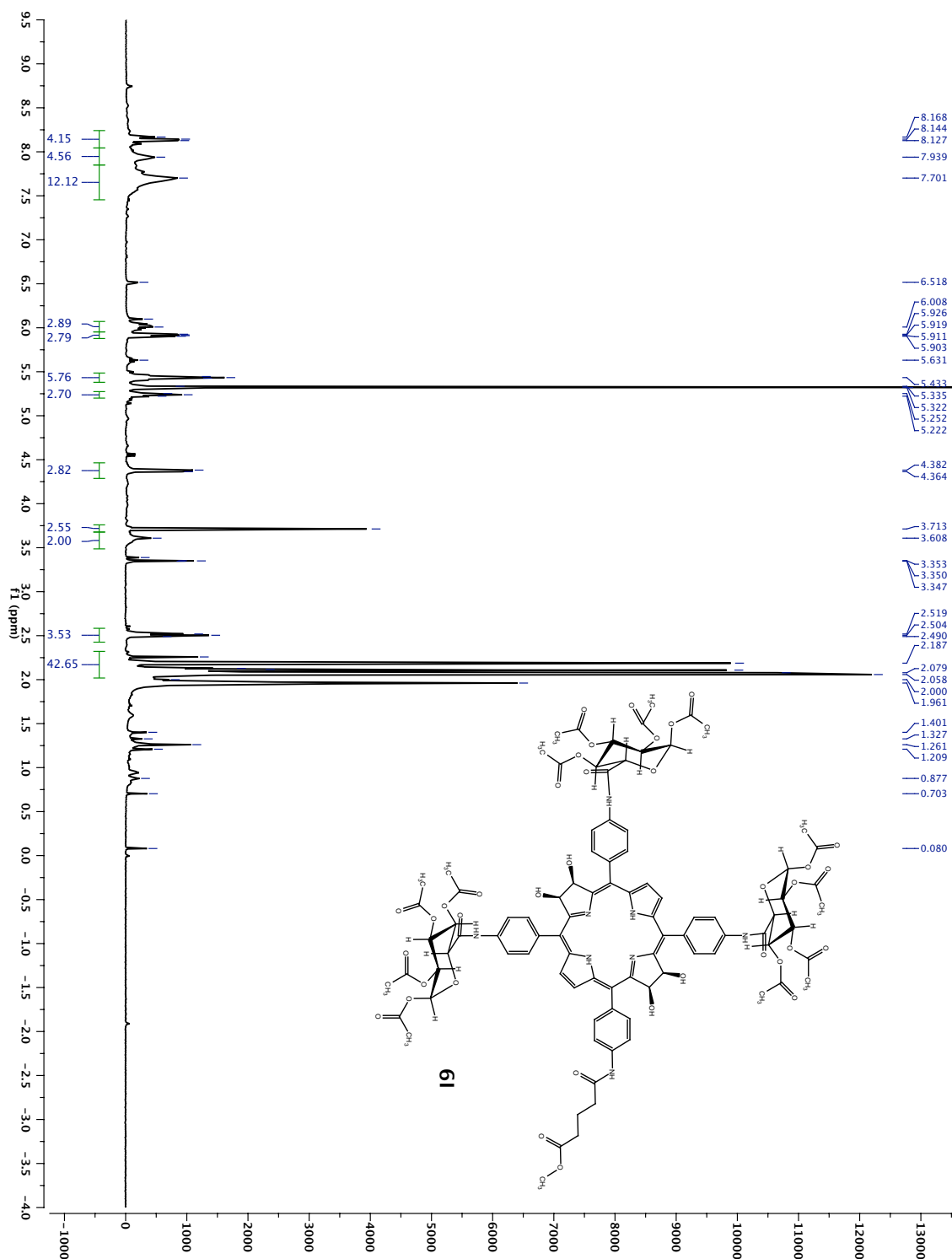


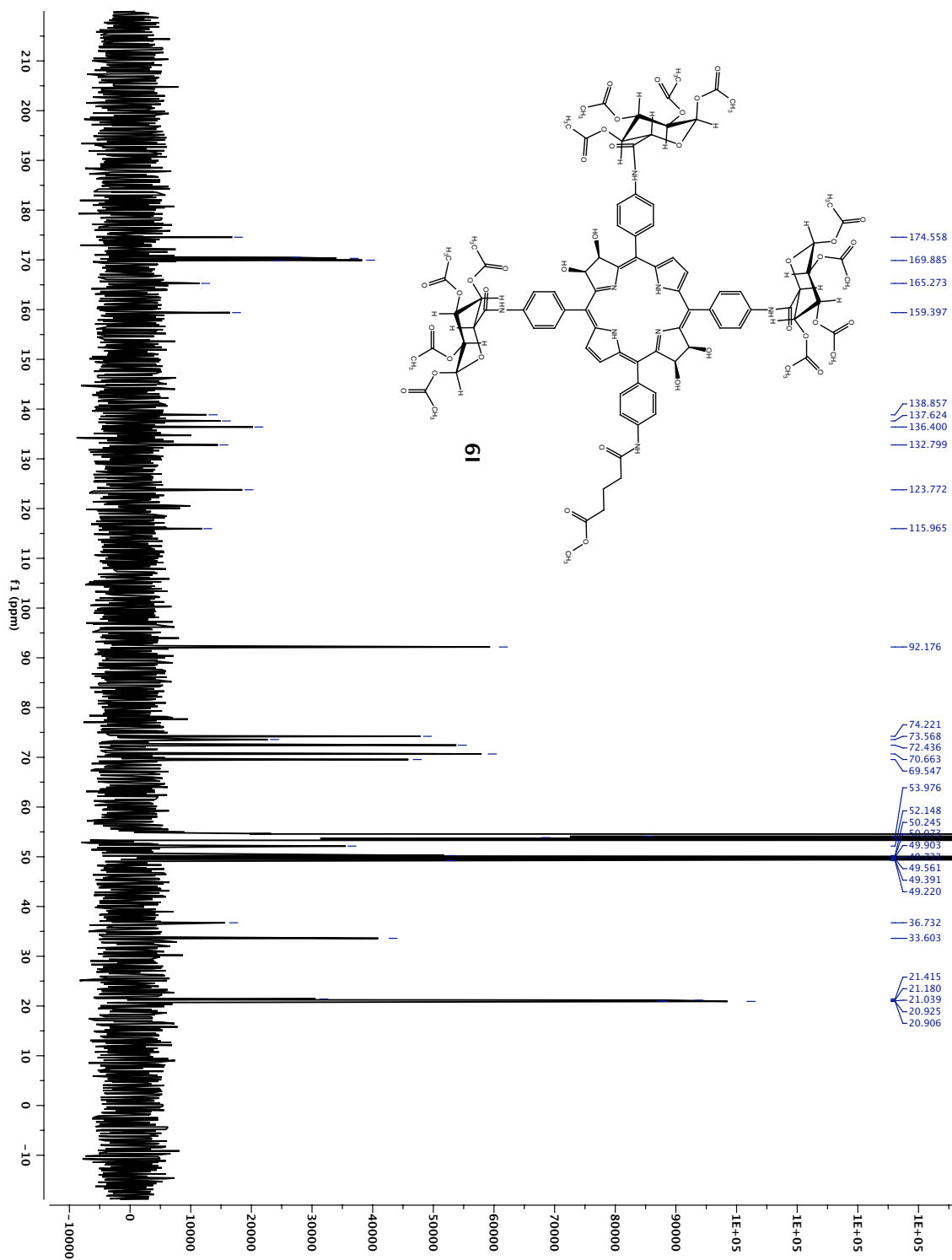


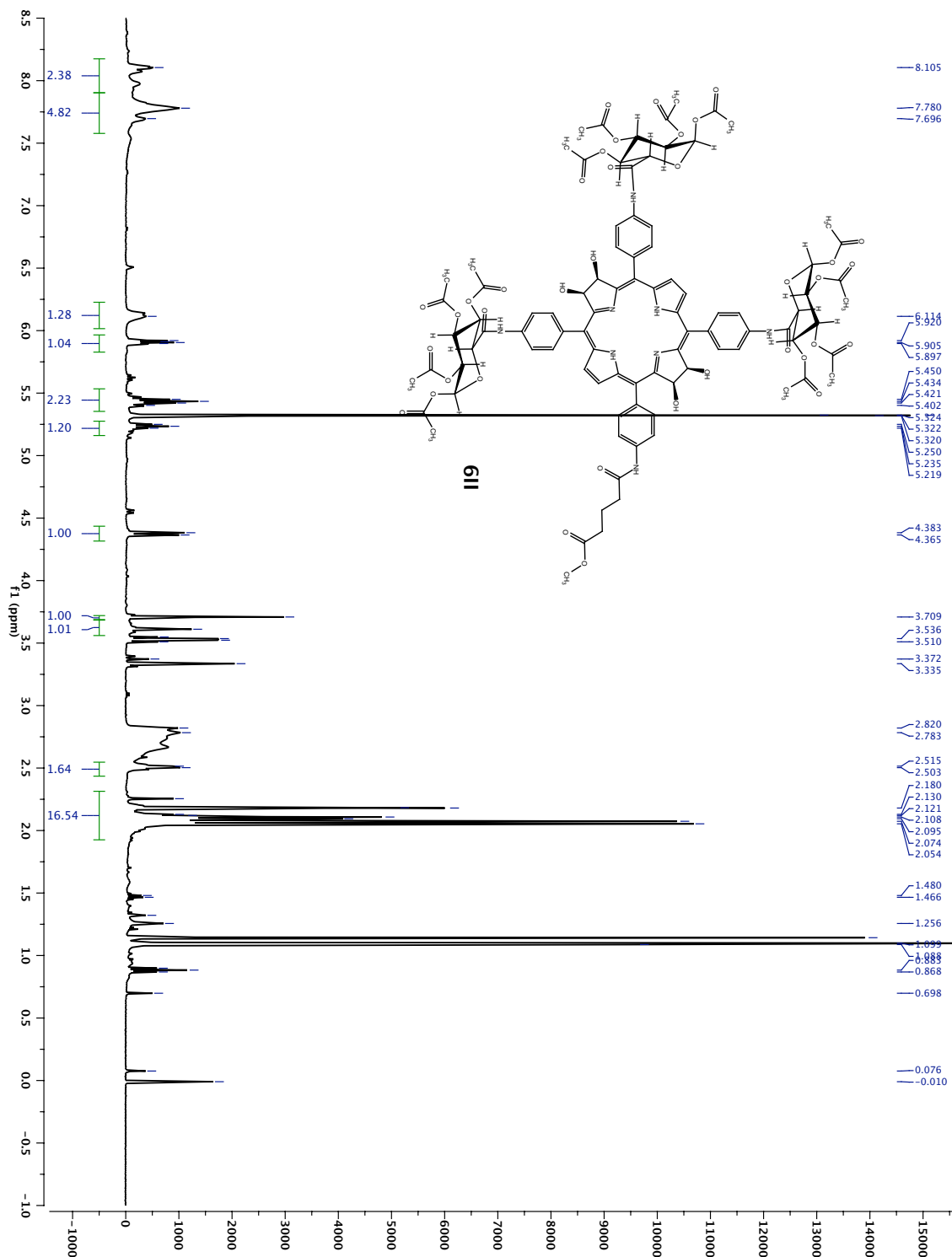


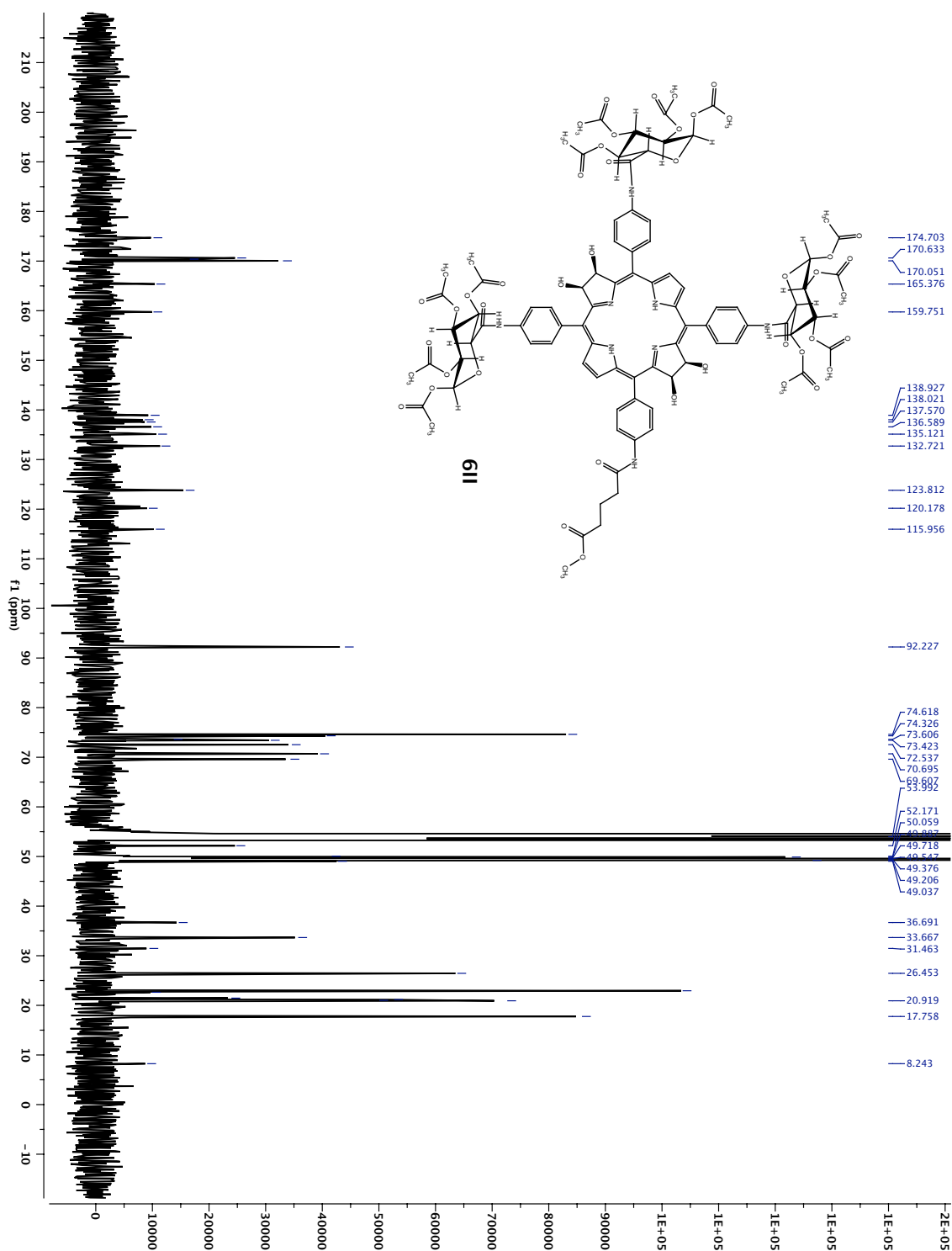




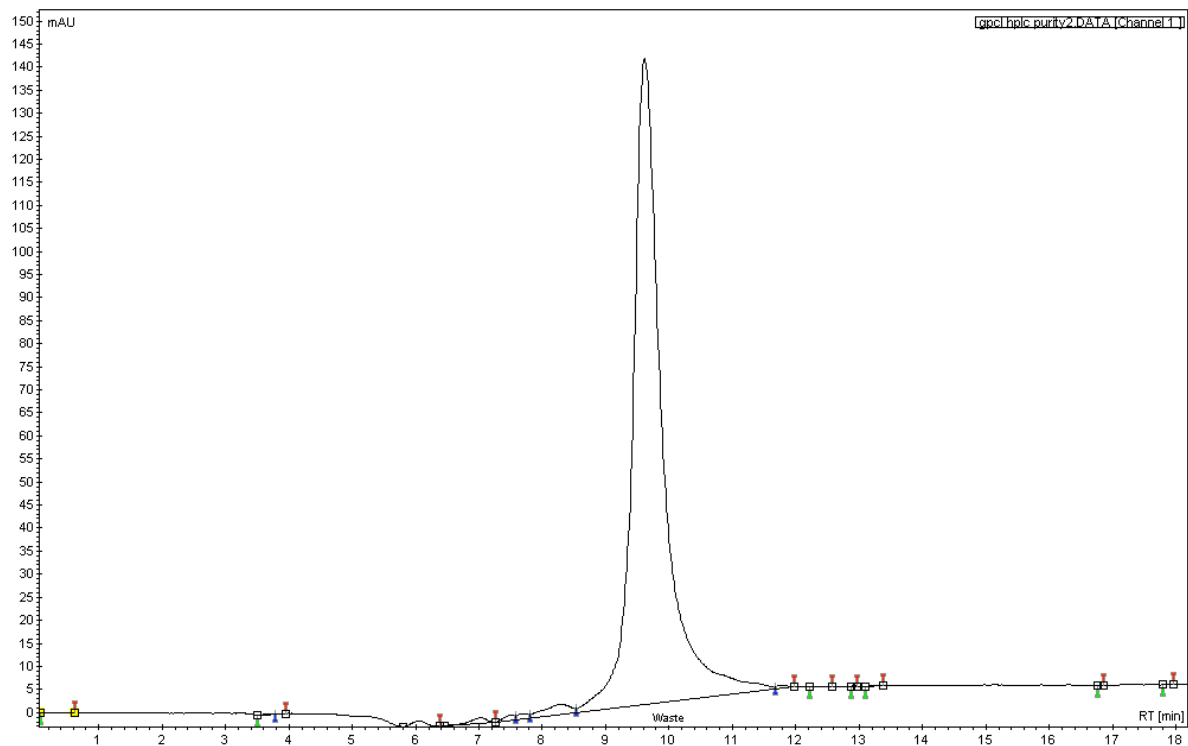




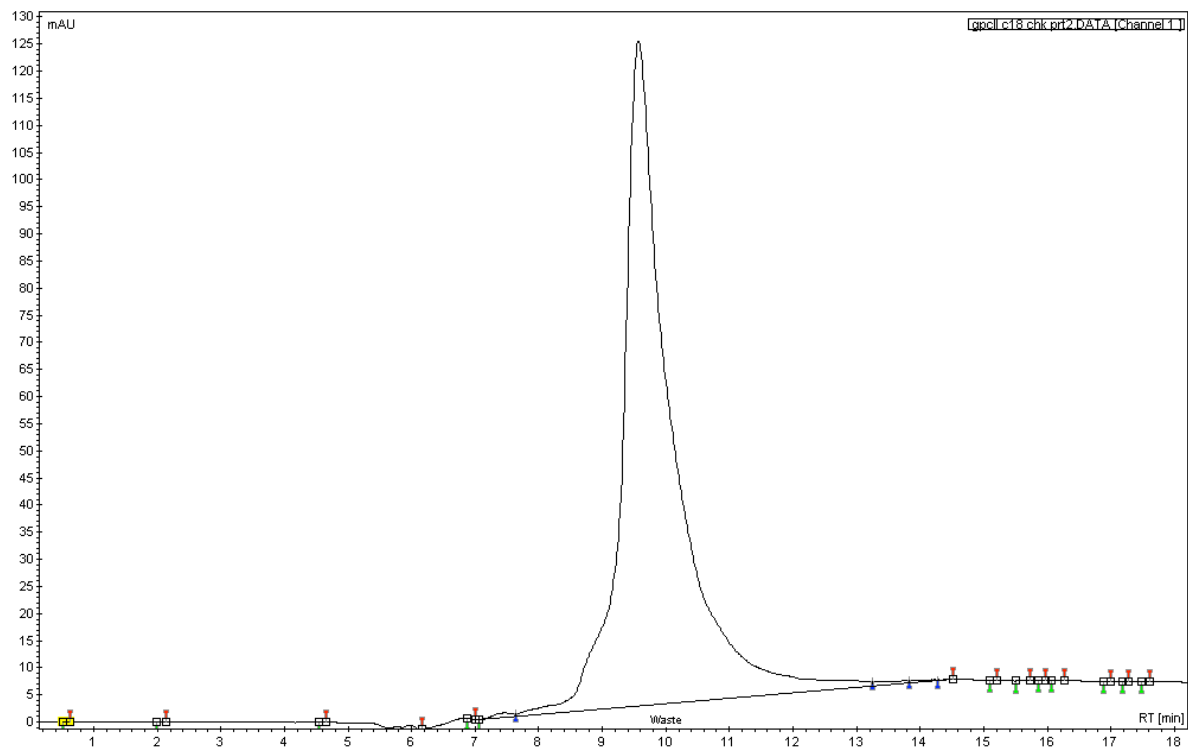




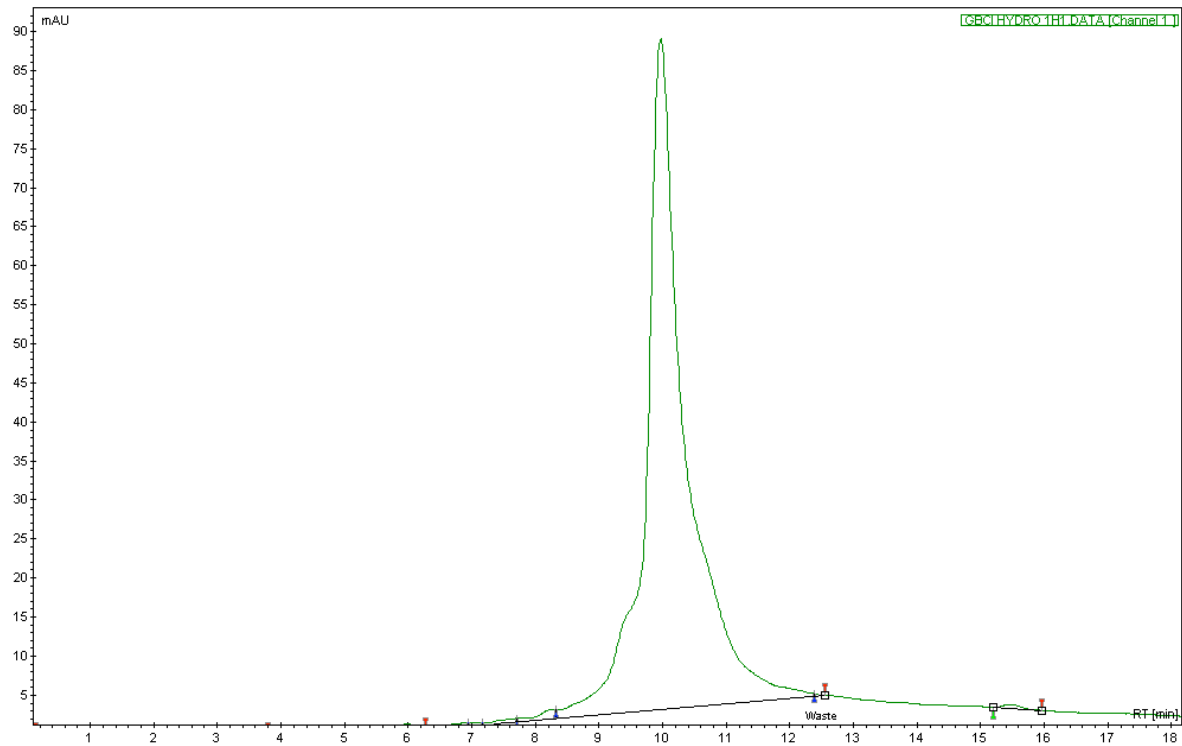
3. HPLC of deprotected chlorins and bacteriochlorins



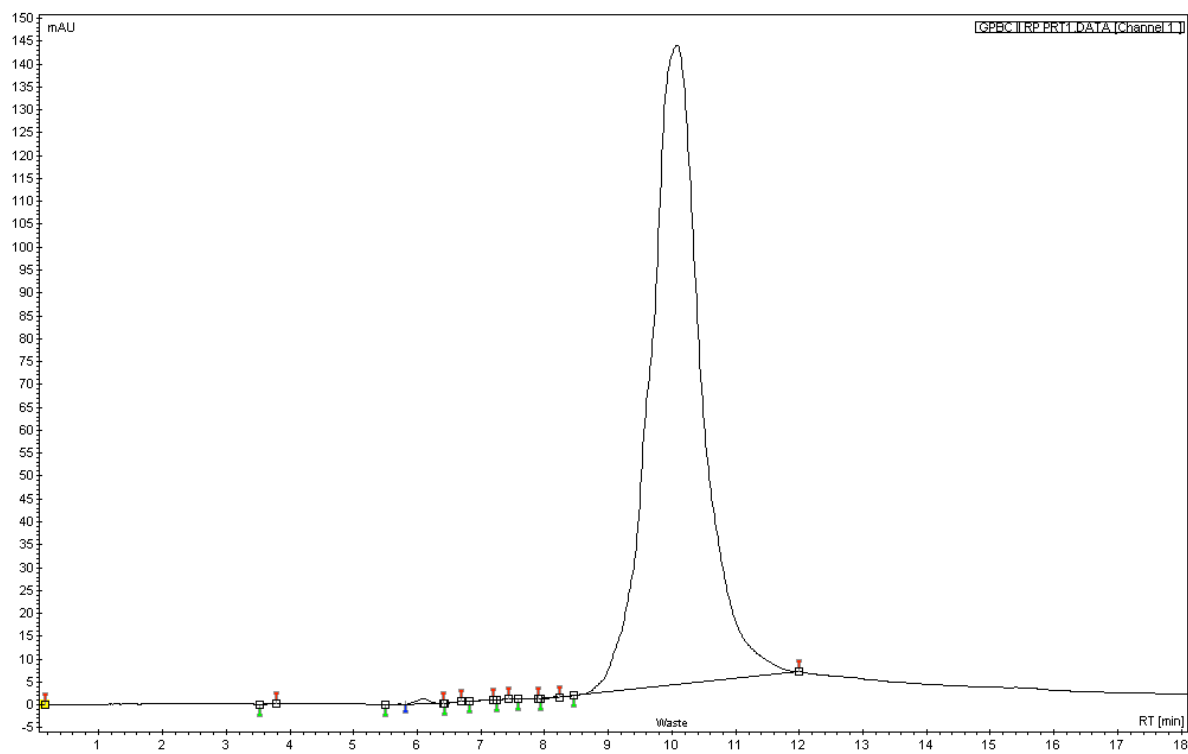
5I (Gradient from 100% to 0% Buffer A)



5II (Gradient from 100% to 0% Buffer A)



7I (Gradient from 100% to 0% Buffer A)



7II (Gradient from 100% to 0% Buffer A)

References

- (1) M. Yuasa, K. Oyaizu, A. Yamaguchi, and M. Kuwakado, *J. Am. Chem. Soc.*, 2004, **126**, 11128.