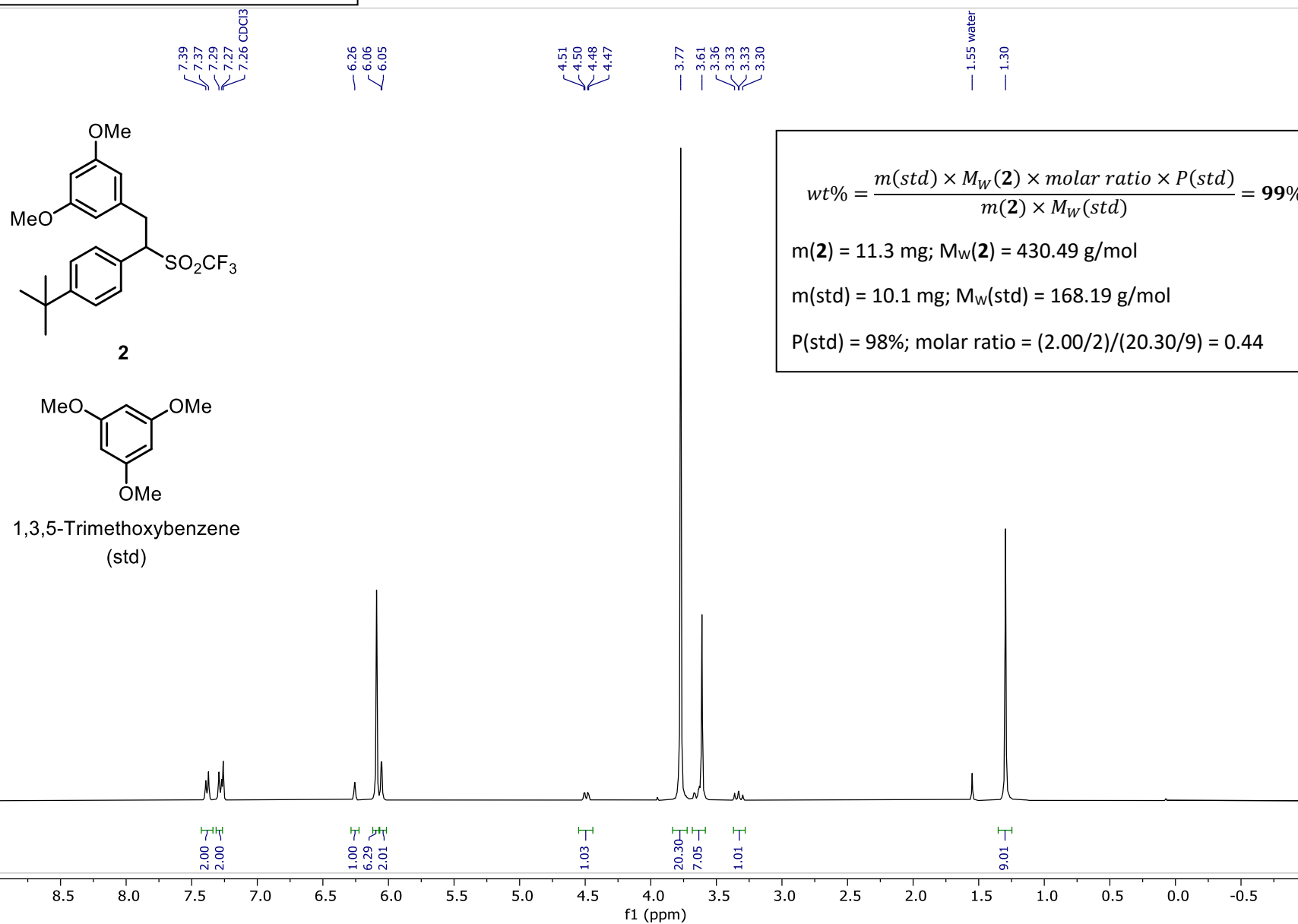


¹H NMR (400 MHz, CDCl₃)

2, qNMR (full scale)



$$wt\% = \frac{m(std) \times M_w(\mathbf{2}) \times \text{molar ratio} \times P(std)}{m(\mathbf{2}) \times M_w(std)} = \mathbf{99\%}$$

$m(\mathbf{2}) = 11.3 \text{ mg}$; $M_w(\mathbf{2}) = 430.49 \text{ g/mol}$

$m(std) = 10.1 \text{ mg}$; $M_w(std) = 168.19 \text{ g/mol}$

$P(std) = 98\%$; molar ratio = $(2.00/2)/(20.30/9) = 0.44$