Supporting Information

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The synthesis of two novel bicyclic haloketones and measurement of their biological activity

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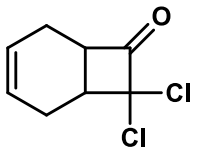
Table of Contents **Page**

 **7**	**δ_H (400 MHz, $CDCl_3$):** 5.8 (m, 2H), 3.98 (ddd, *J*= 10.6, *J*= 6.8, *J*= 2.4 Hz, 1H), 3.2 ppm (ddd, *J*= 8 Hz, *J*= 2 Hz, 1H), 2.6-2 (m, 4H).

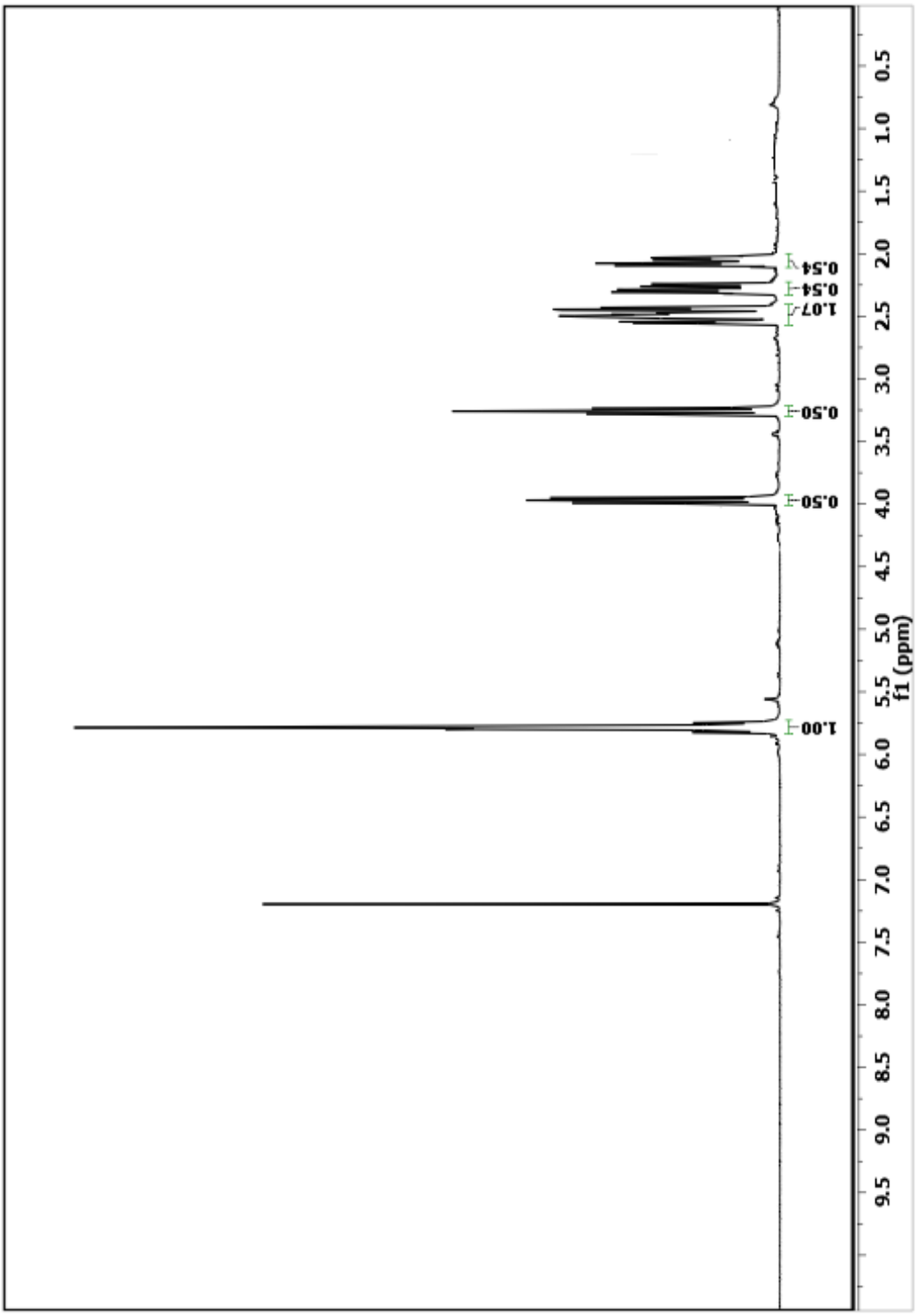
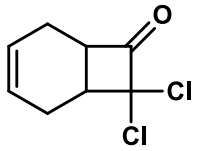


Figure S1. ^{1}H NMR spectrum of compound **7**

 **7**	δ_C **(100 MHz, $CDCl_3$)**: 198.3, 127.3, 126.4, 53.7, 45.2, 23.1, 21.3

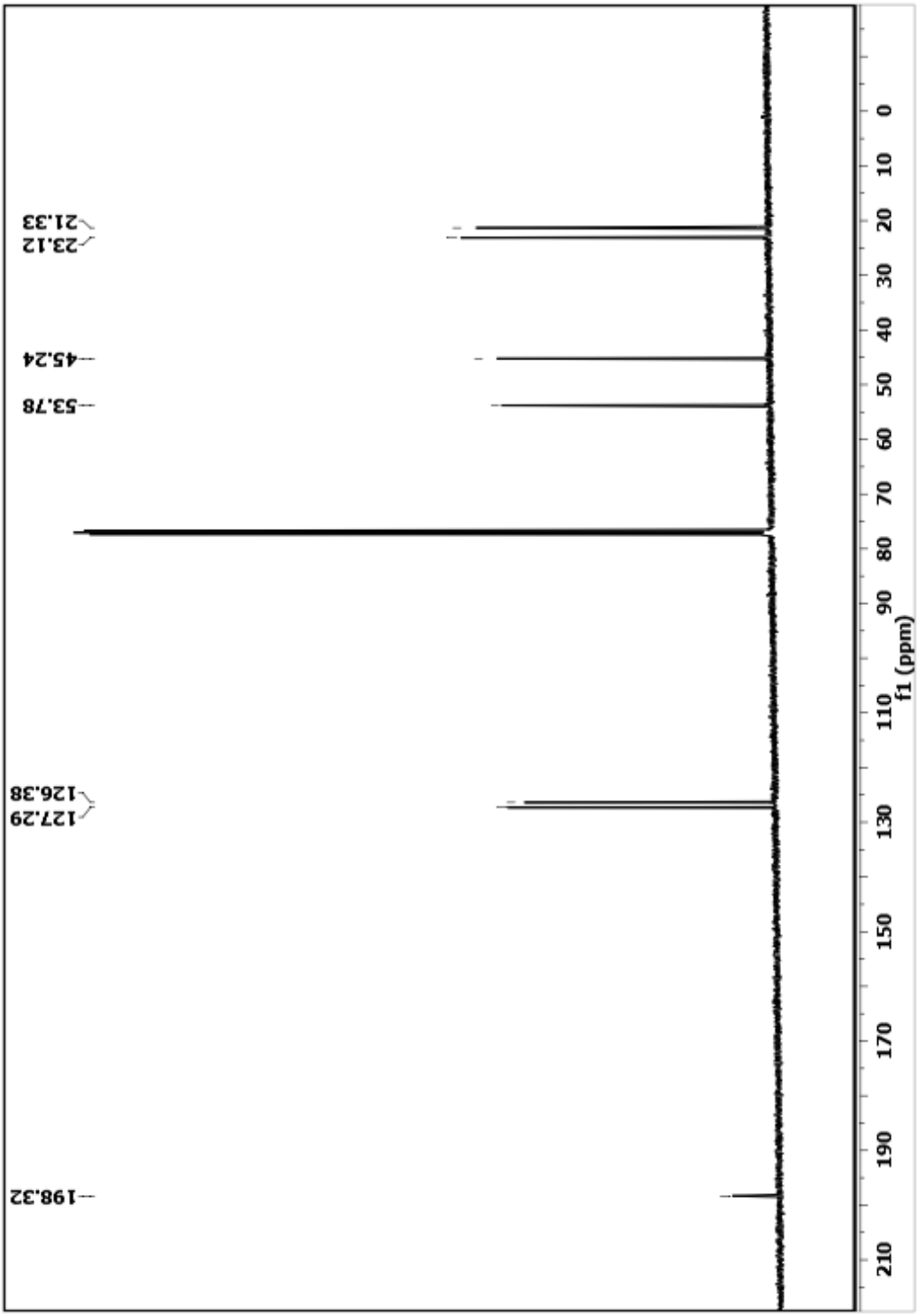
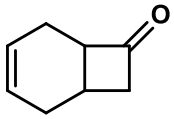


Figure S2. ^{13}C NMR spectrum of compound **7**

 **8**	**δ_H (400 MHz, $CDCl_3$):** 5.8 (m, 2H), 3.45 (m, 1H), 2.55 (m, 1H), 2.4-2,2 (m, 4H)

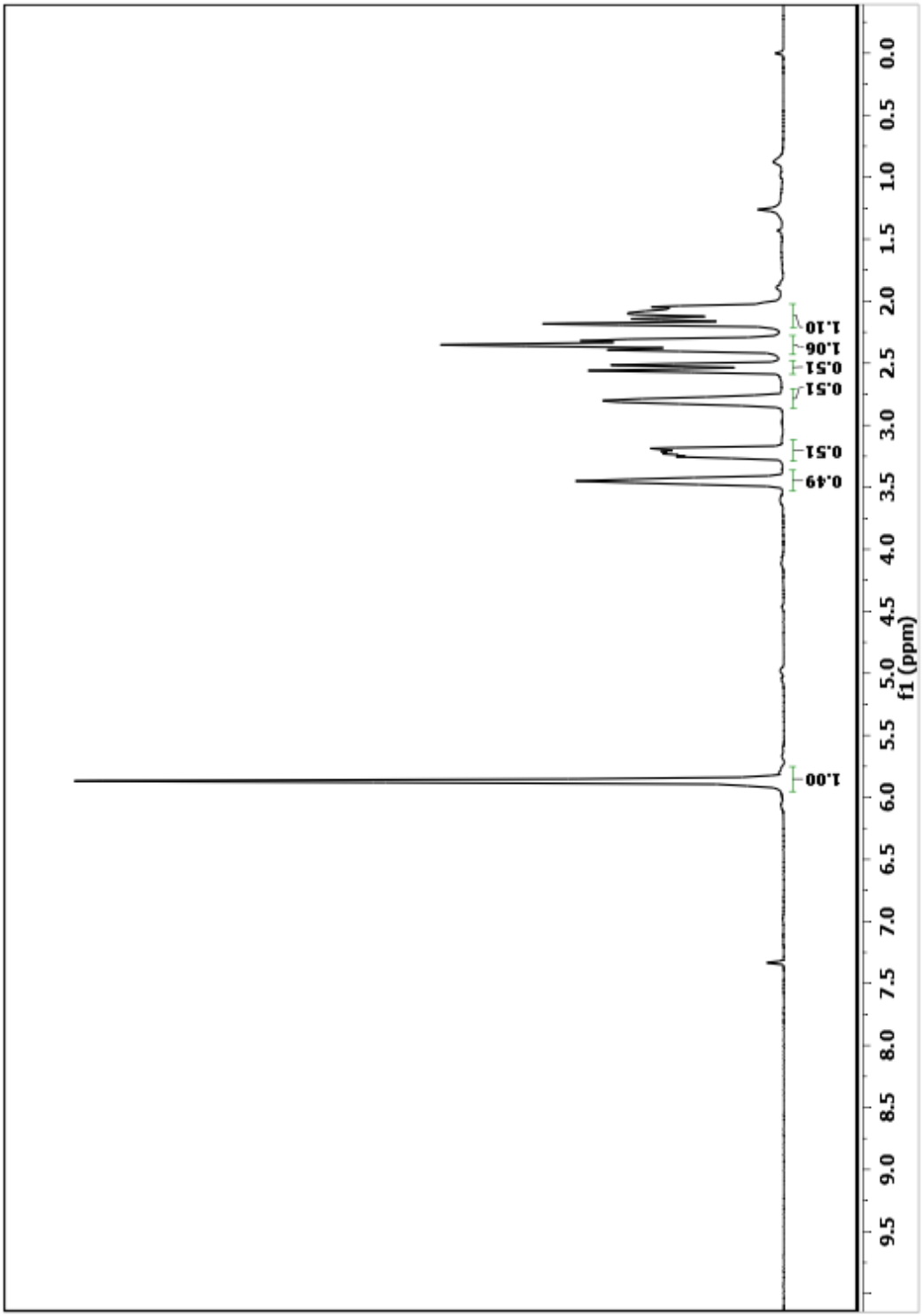
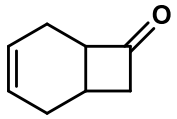


Figure S3. ^{1}H NMR spectrum of compound **8**

 **8**	**δ_C (100 MHz, $CDCl_3$):** 213.2, 127.4, 126.5, 56.6, 52.1, 26.5, 22.1, 21.8

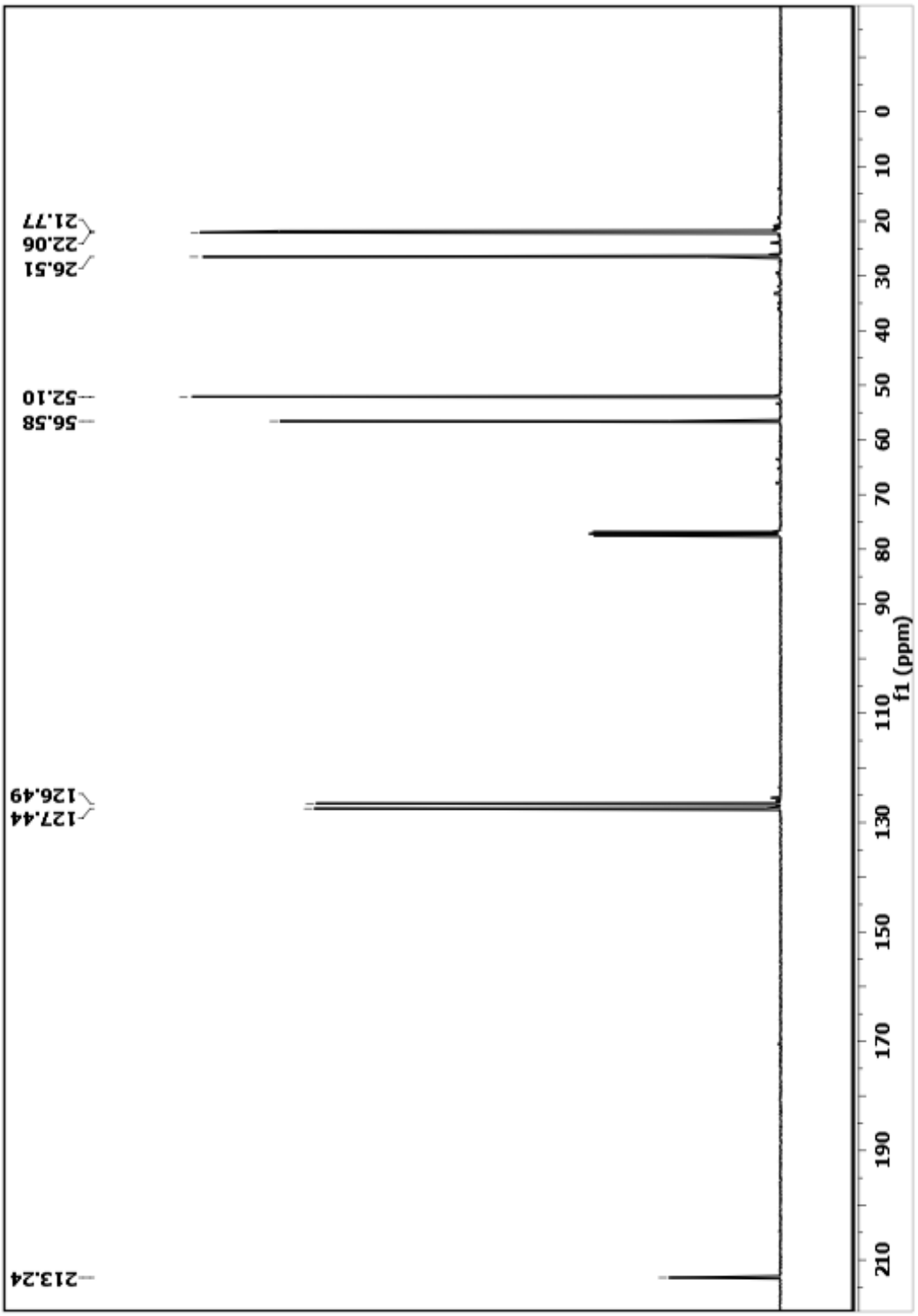
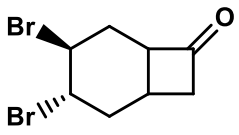


Figure S4. ^{13}C NMR spectrum of compound **8**

 **9**	**δ_H (400 MHz, $CDCl_3$):** 4.54 (m, 1H), 4.48 (m, 1H), 3.27 (m, 2H), 2.73 (m, 1H), 2.62 (m, 1H), 1.35 (m, 3H), 2.35 (ddd, *J*= 15.5, 9.84, 2.79 Hz, 1H)

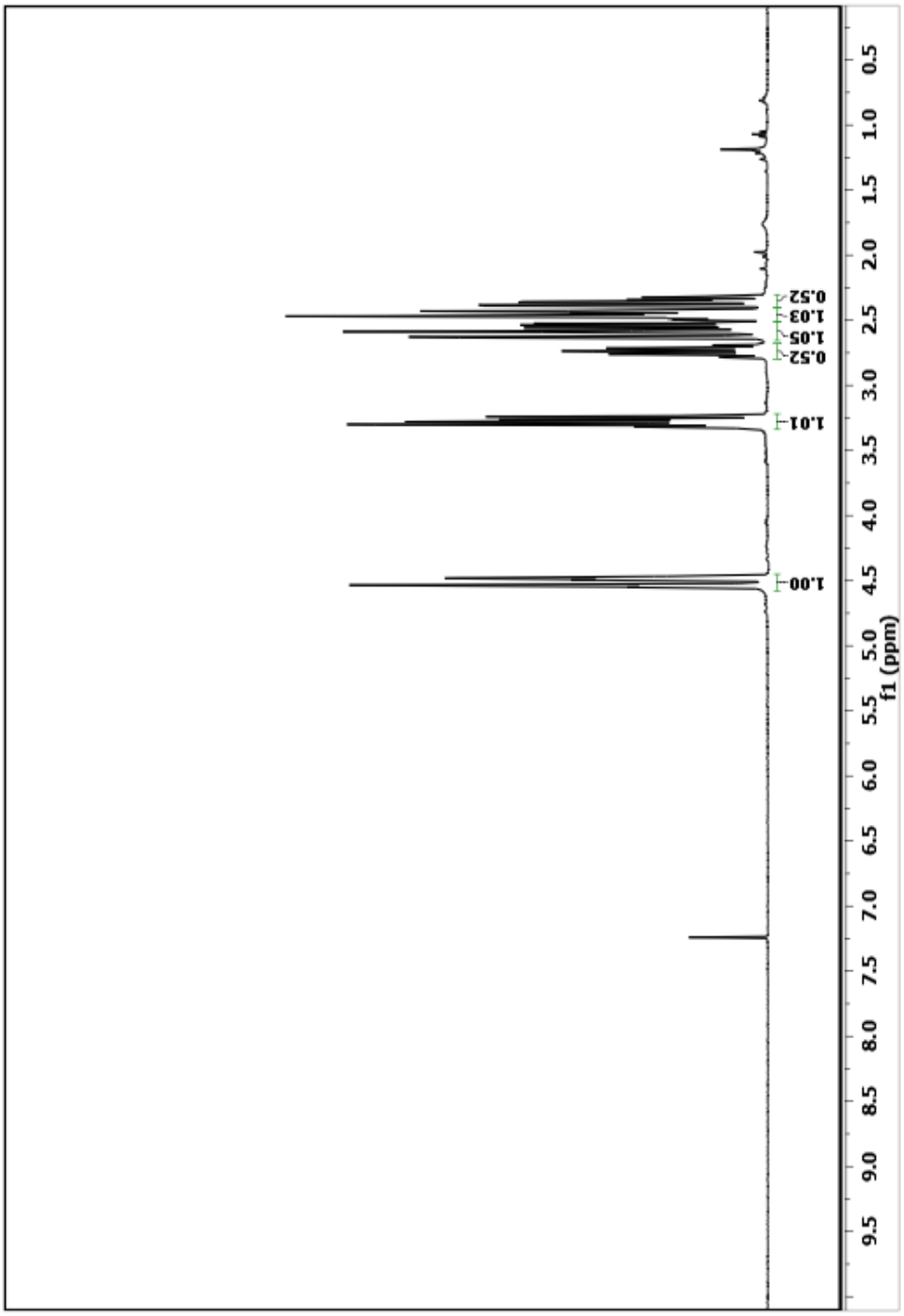
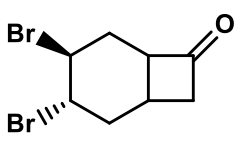


Figure S5. ^{1}H NMR Spectrum of compound **9**

 **9**	δ_C **(100 MHz, $CDCl_3$):** 207.4, 52.99, 51.9, 50.1, 48.3, 31.5, 26.2, 19.7.

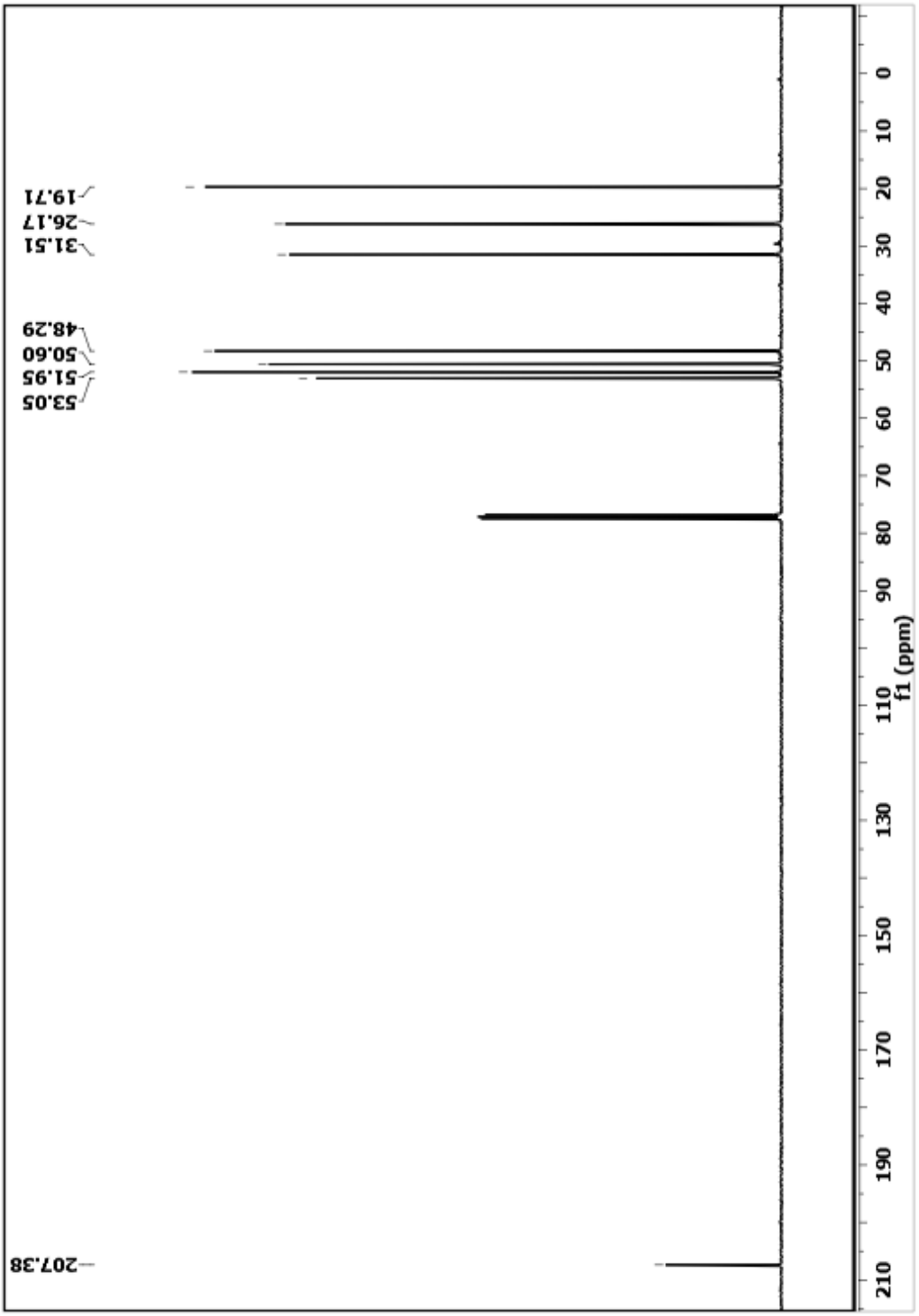
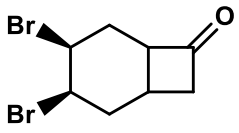


Figure S6. ^{13}C NMR Spectrum of compound **9**

 **10b**	**δ_H (400 MHz, $CDCl_3$):** 4.22 (m, 2H), 3.41 (m, 1H), 3.16 (ddd, *J*= 16.7, 8.8, 3.1 Hz, 1H), 2.84 (m, 2H), 2.69 (dt, J= 15.1, 3.7 Hz, 1H), 2.61 (m, 1H), 2.09 (dt, J= 15.1, 8.8 Hz, 1H), 1.84 (m, 1H)

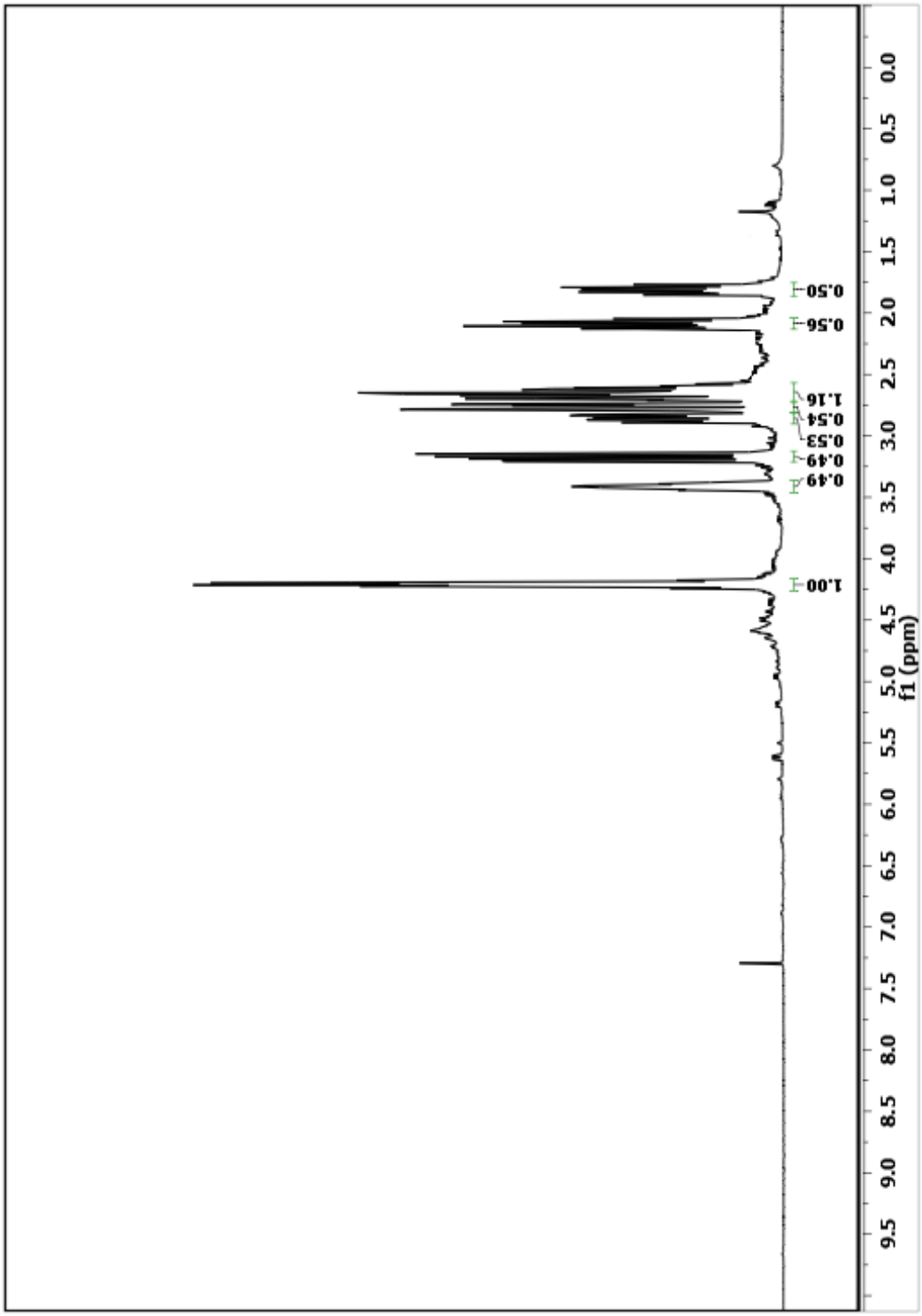
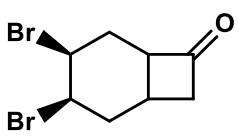


Figure S7. ^{1}H NMR spectrum of compound **10b**

 **10b**	δ_C **(100 MHz, $CDCl_3$):** 206.4, 55.7, 52.4, 52.3, 537.5, 29.9, 22.5.

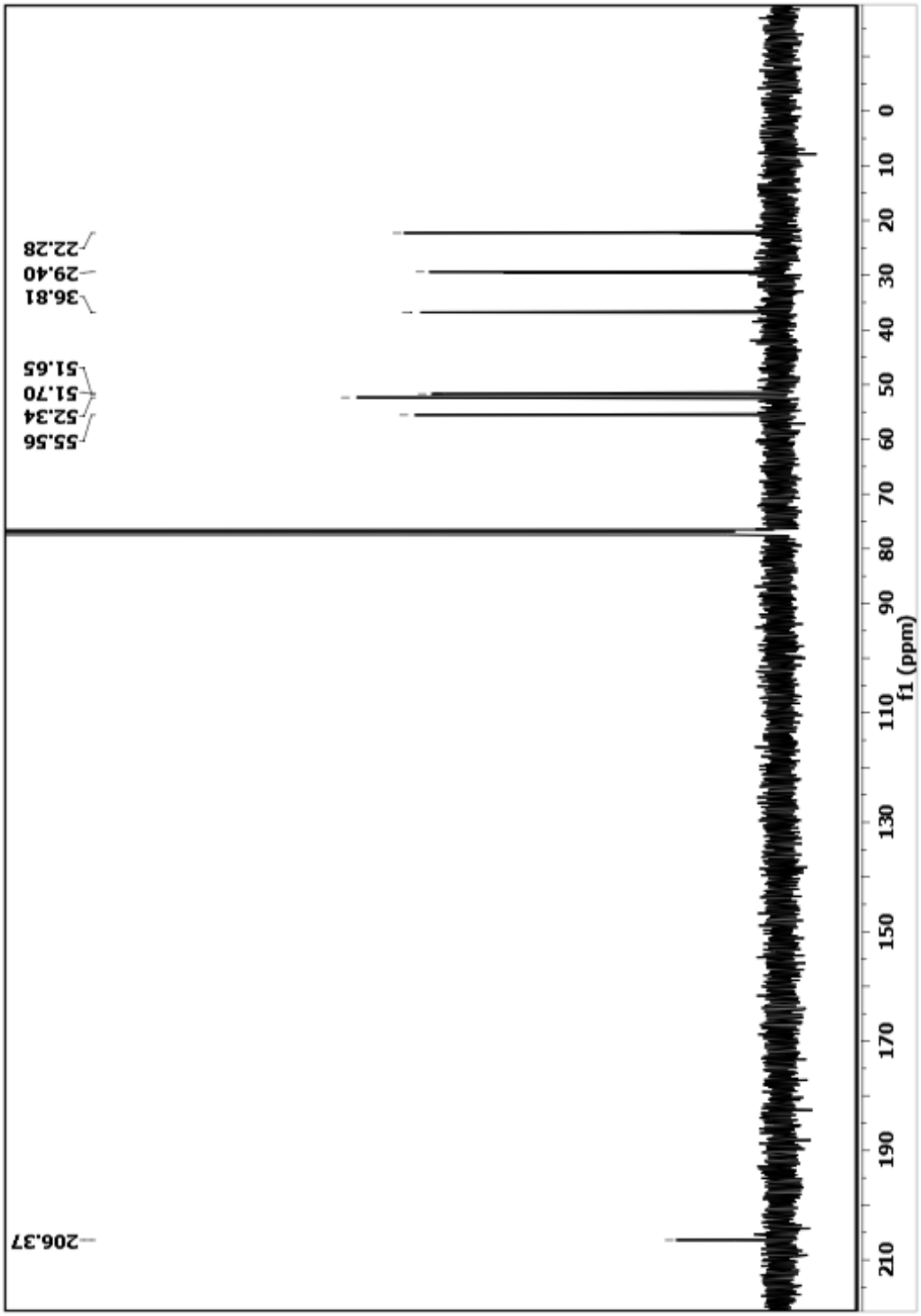
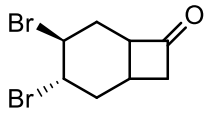
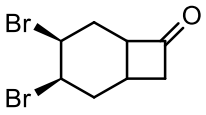
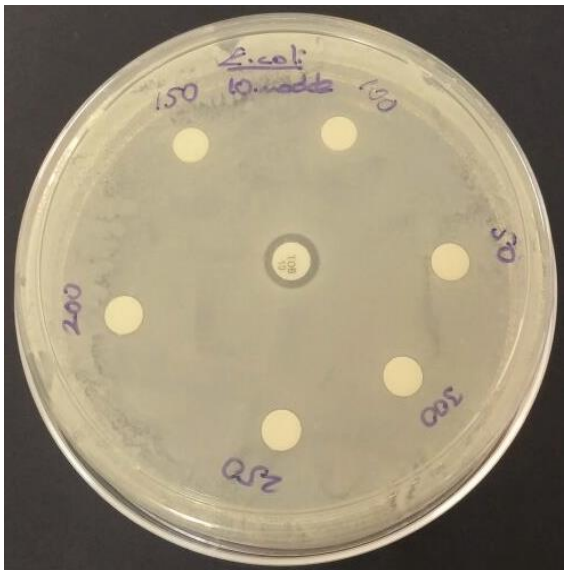
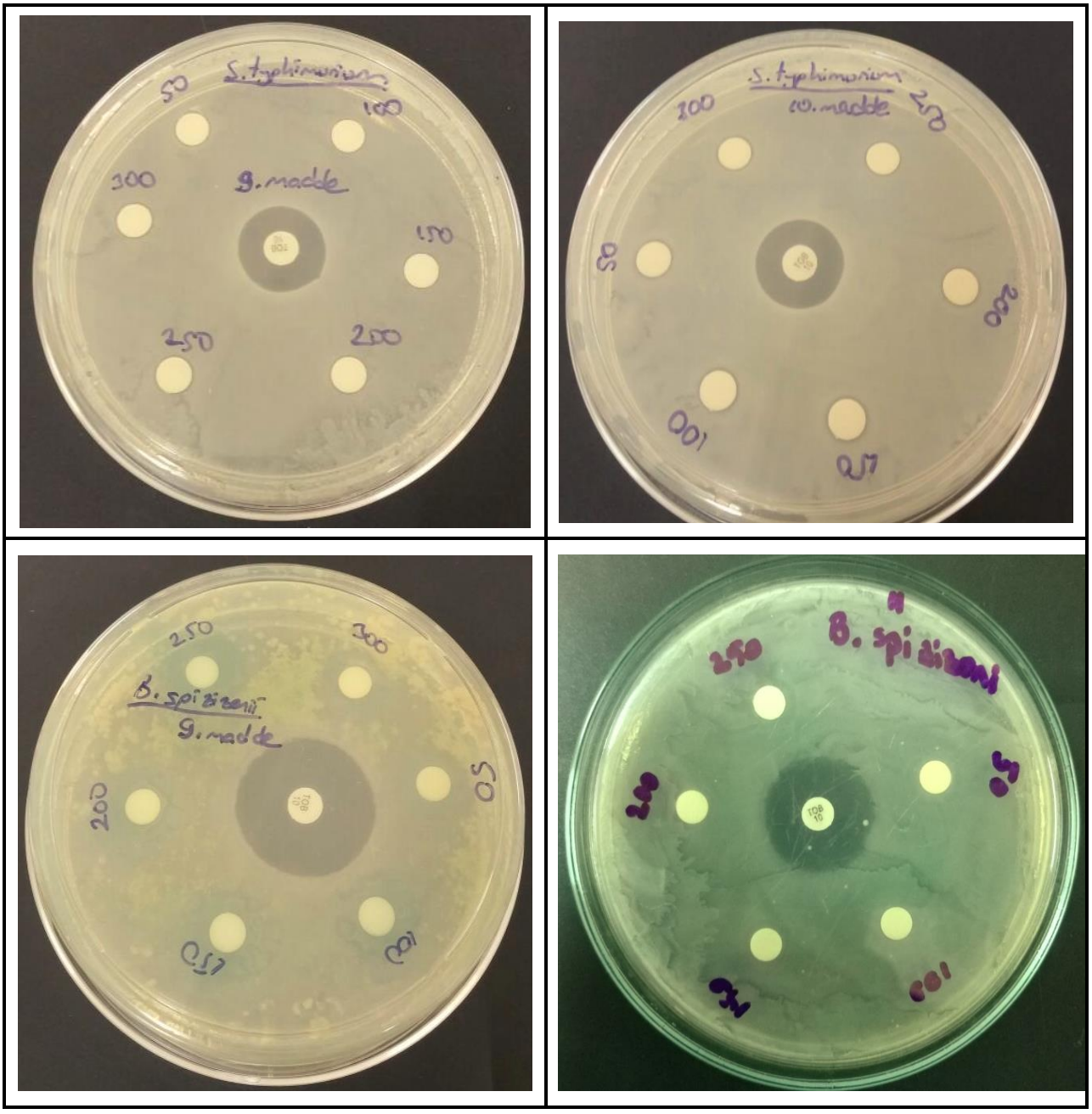


Figure S8. ^{13}C NMR spectrum of compound **10b**

 **9**	 **10b**
 S.aureus M.madde 50 100 150 200 250 300	 50 100 150 200 250 300
 E.coli M.madde 50 100 150 200 250 300	 E.coli M.madde 50 100 150 200 250 300


S. typhimurium
G. madde
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100
150
200
250
300
S. typhimurium
G. madde
100
200
250
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B. spizizenii
G. madde
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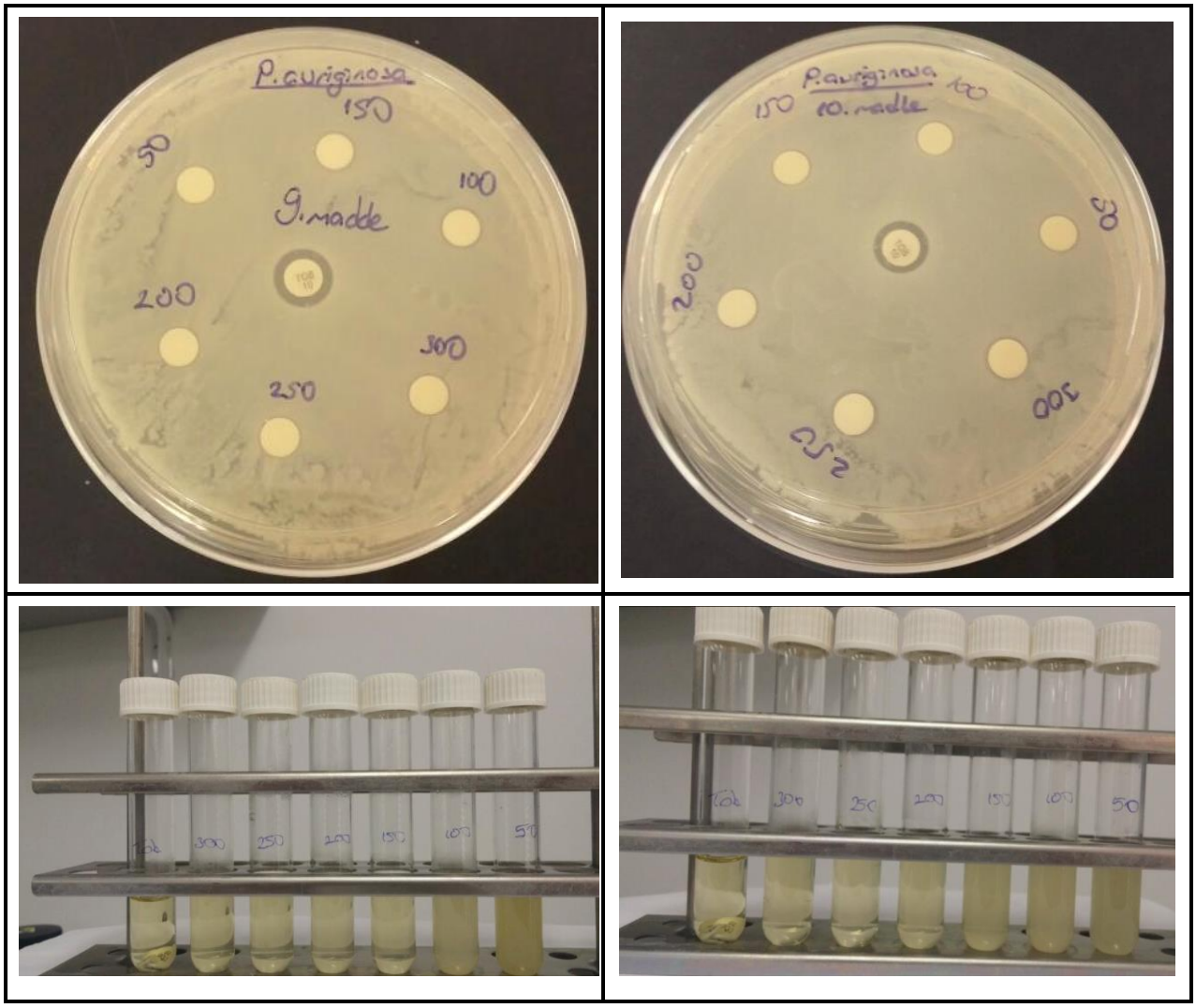

Figure S9. Inhibitory effects of tested compounds against bacterial strains