

Structure–Activity Relationship of Phytotoxic Natural 10-Membered Lactones and Their Semisynthetic Derivatives

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Figure S48 – Phytotoxic activity of compounds **1** – **11** on sowthistle punctured leaf discs at 120 hours after treatment

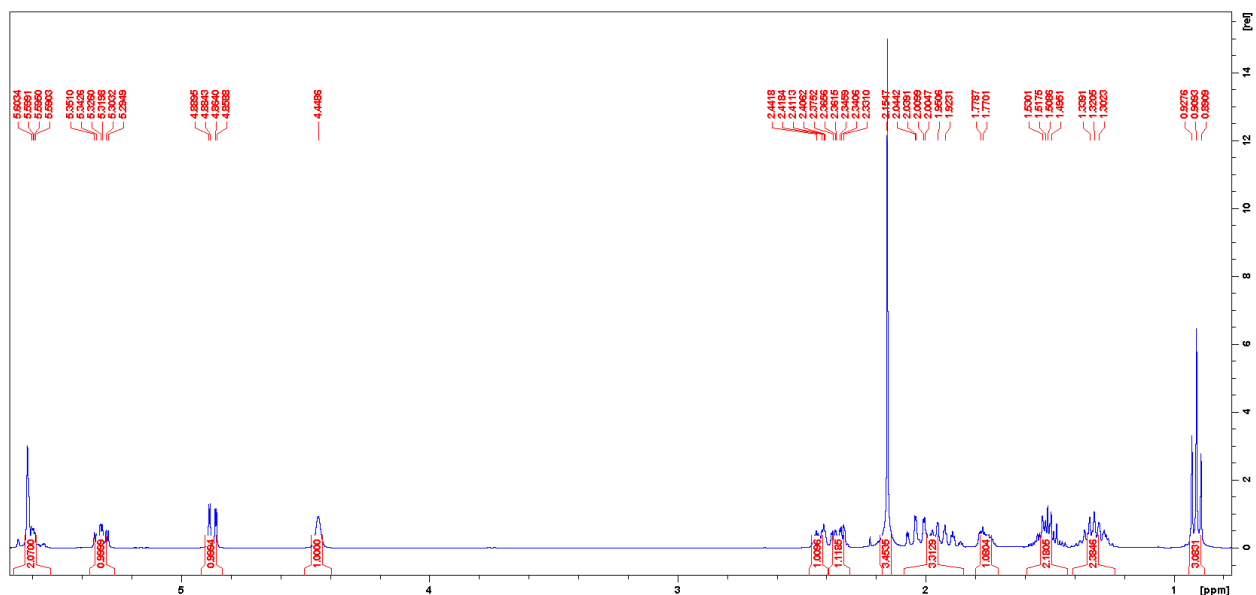


Figure S1 – ¹H NMR spectrum of compound **5**

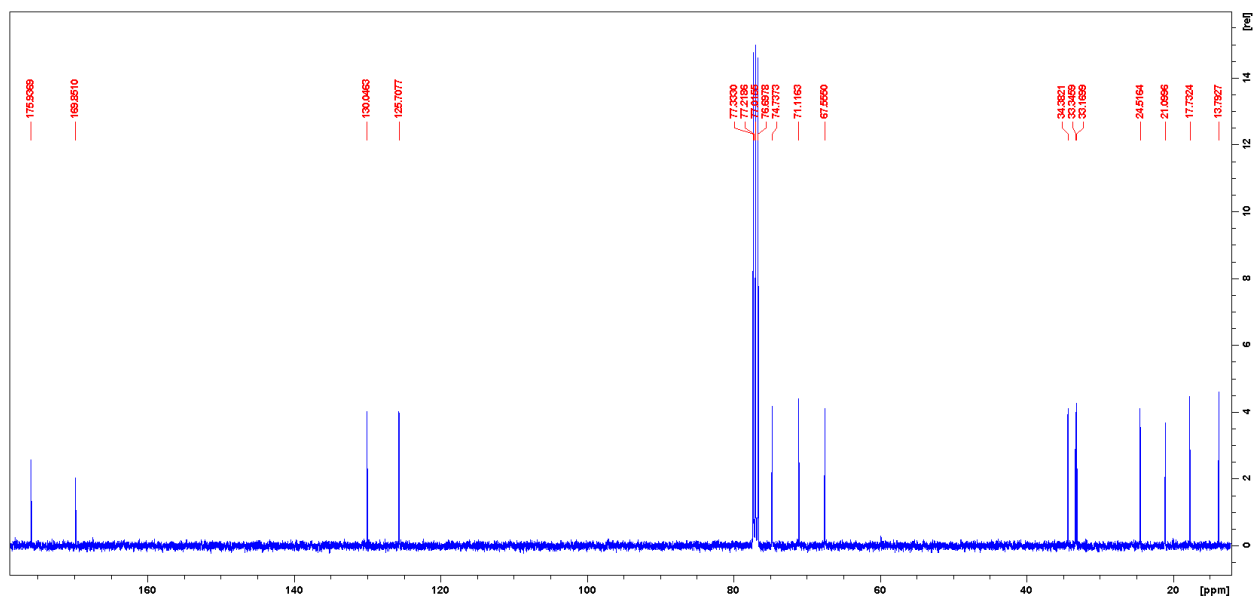


Figure S2 – ¹³C NMR spectrum of compound **5**

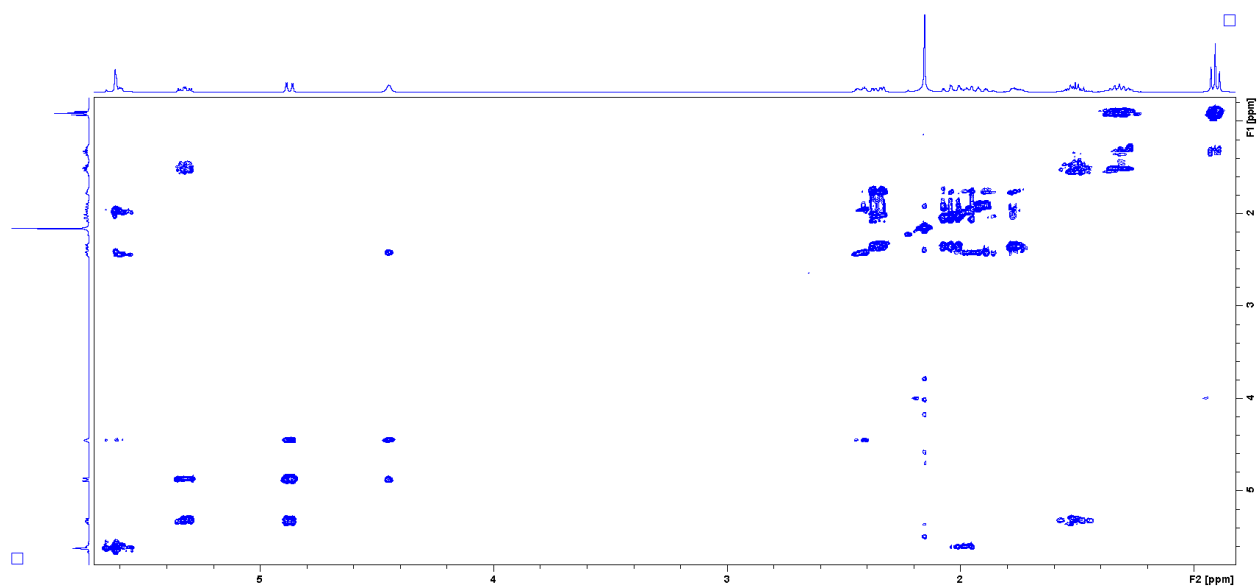


Figure S3 – COSY spectrum of compound **5**

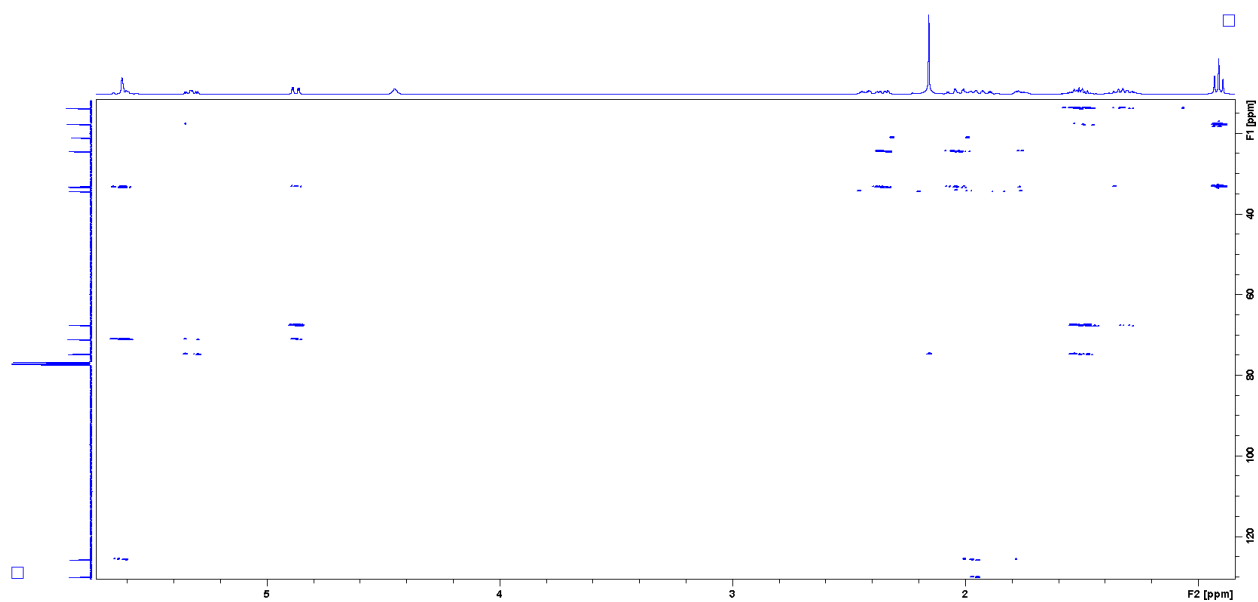


Figure S4 – HMBC spectrum of compound **5**

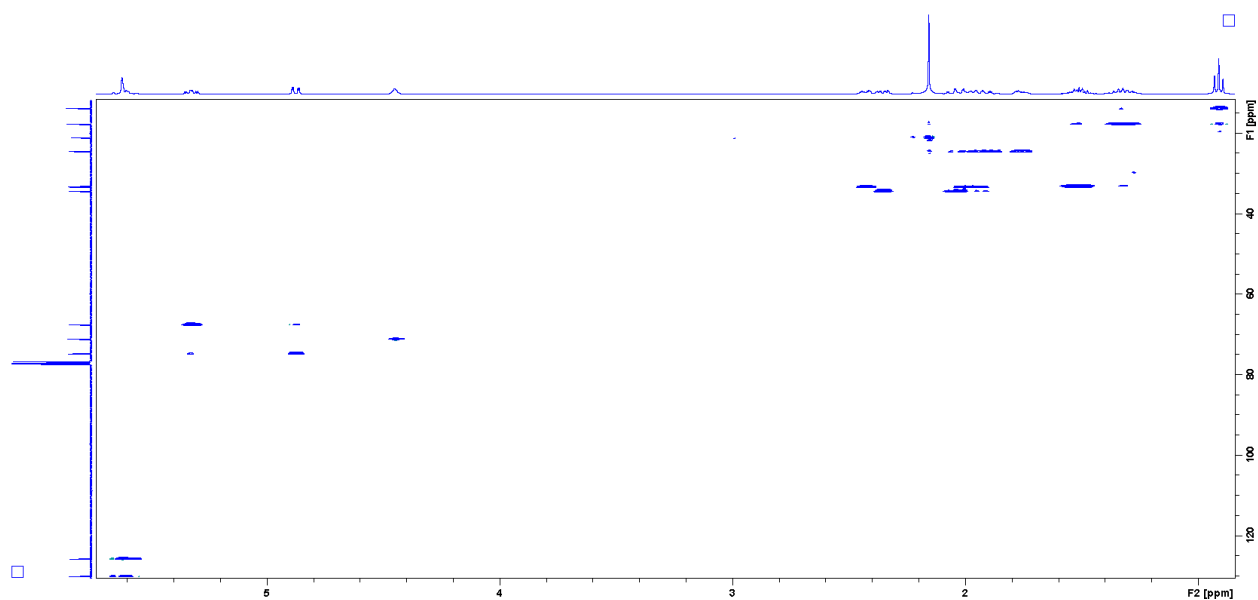


Figure S5 – HSQC spectrum of compound **5**

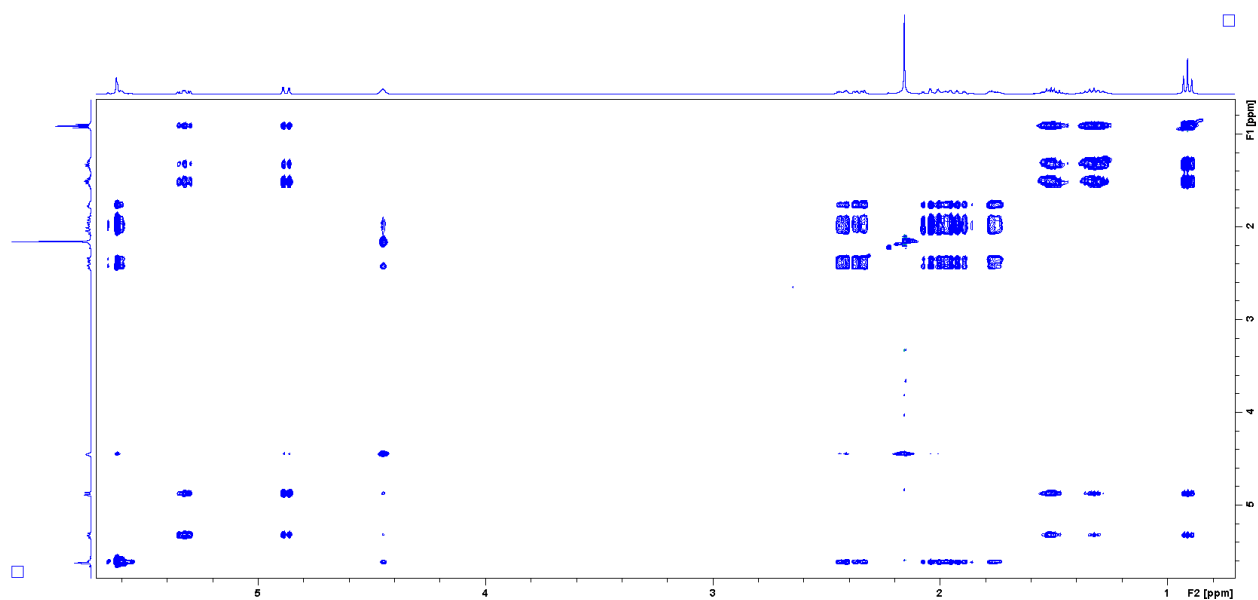


Figure S6 – TOCSY spectrum of compound **5**

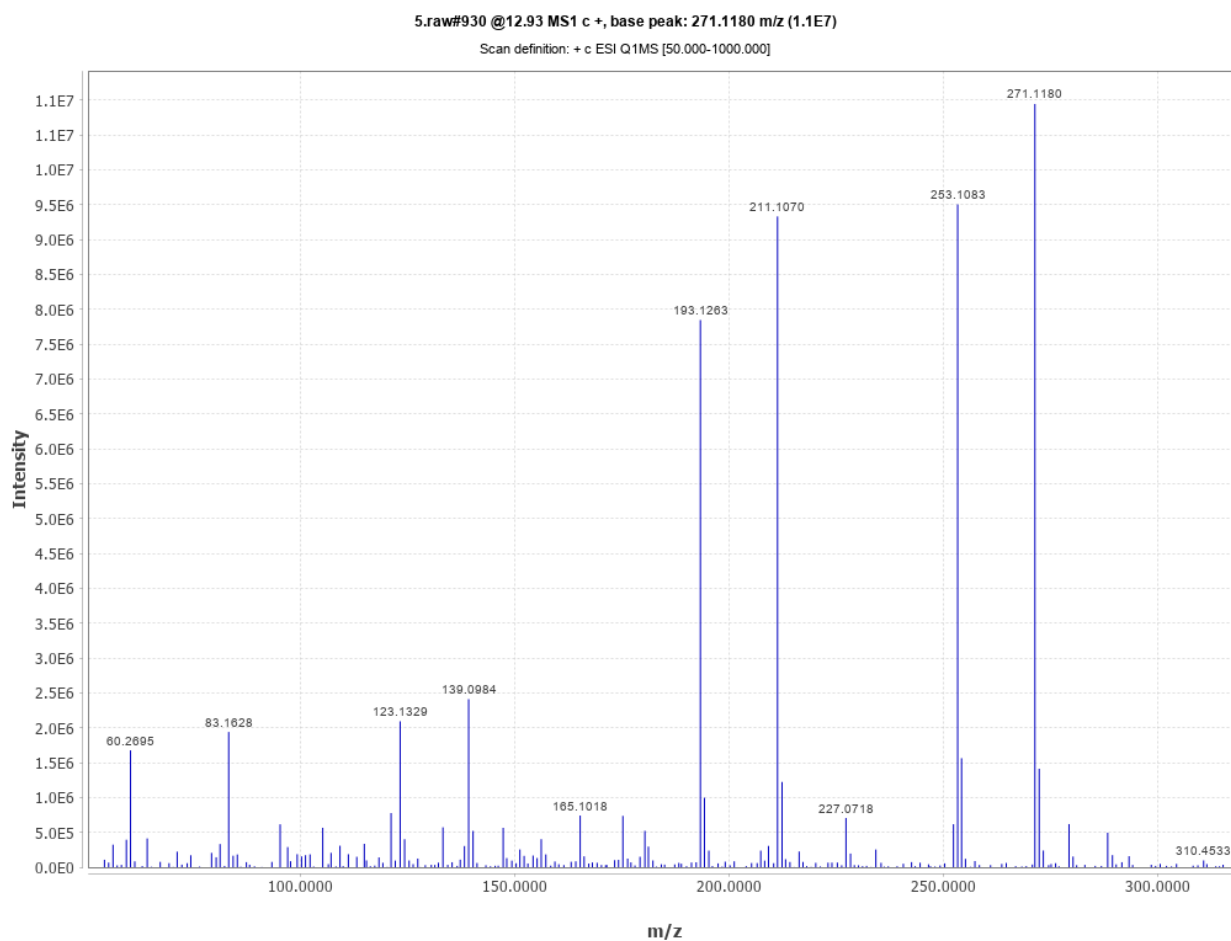
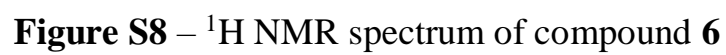


Figure S7 – ESIMS of compound **5** recorded in positive ion mode



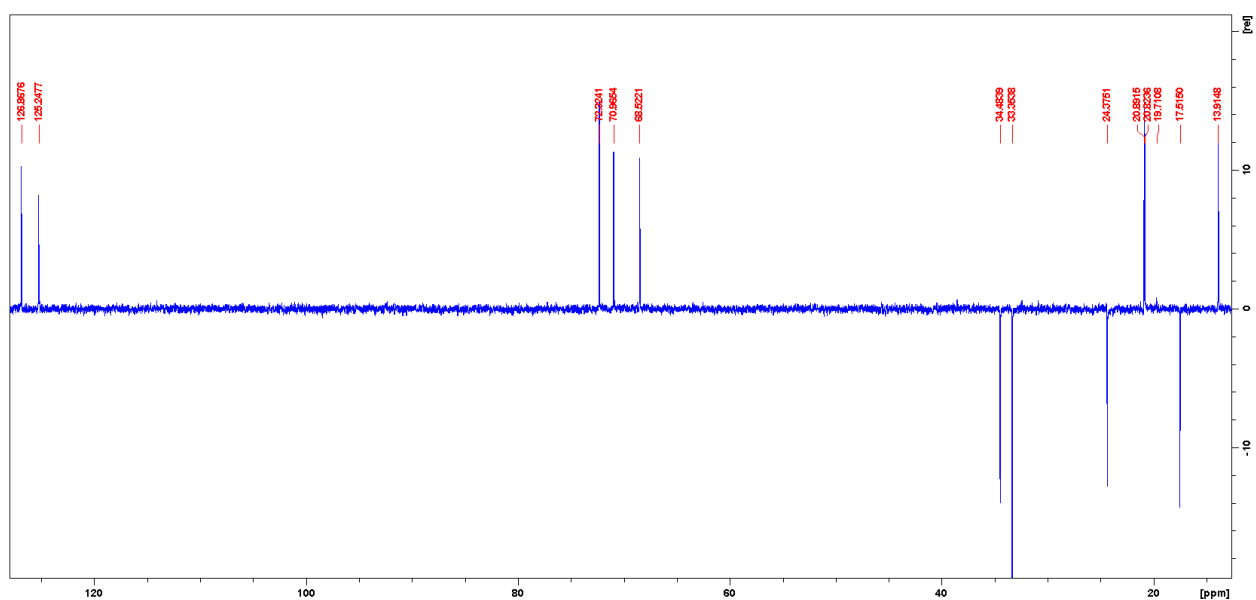


Figure S10 – DEPT spectrum of compound **6**

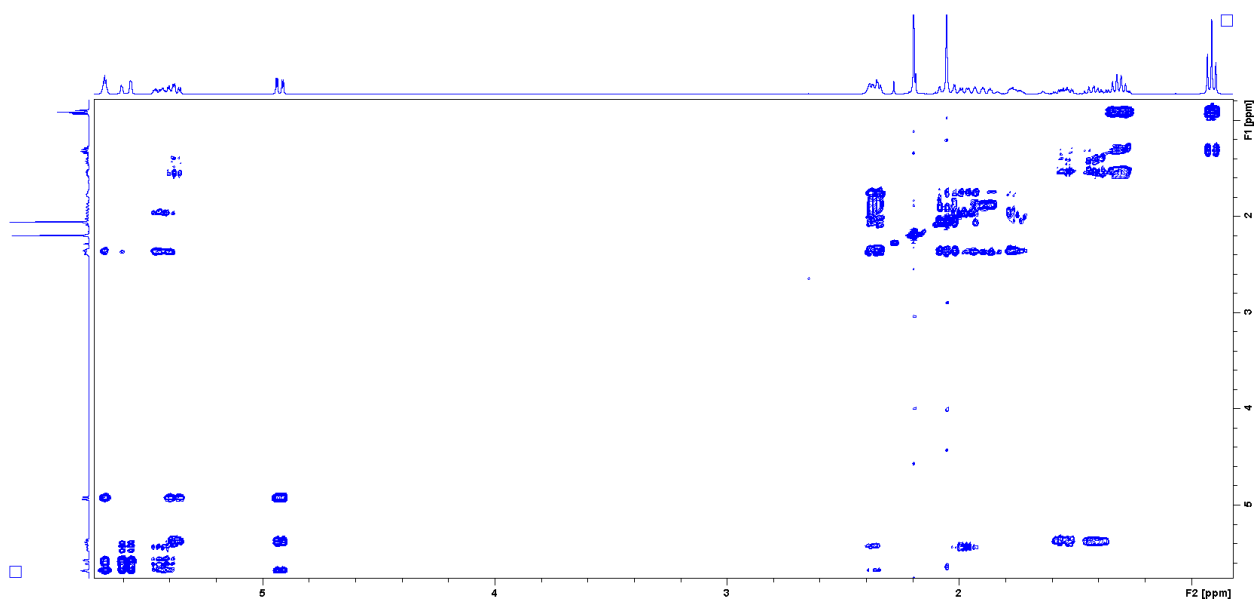


Figure S11 – COSY spectrum of compound **6**

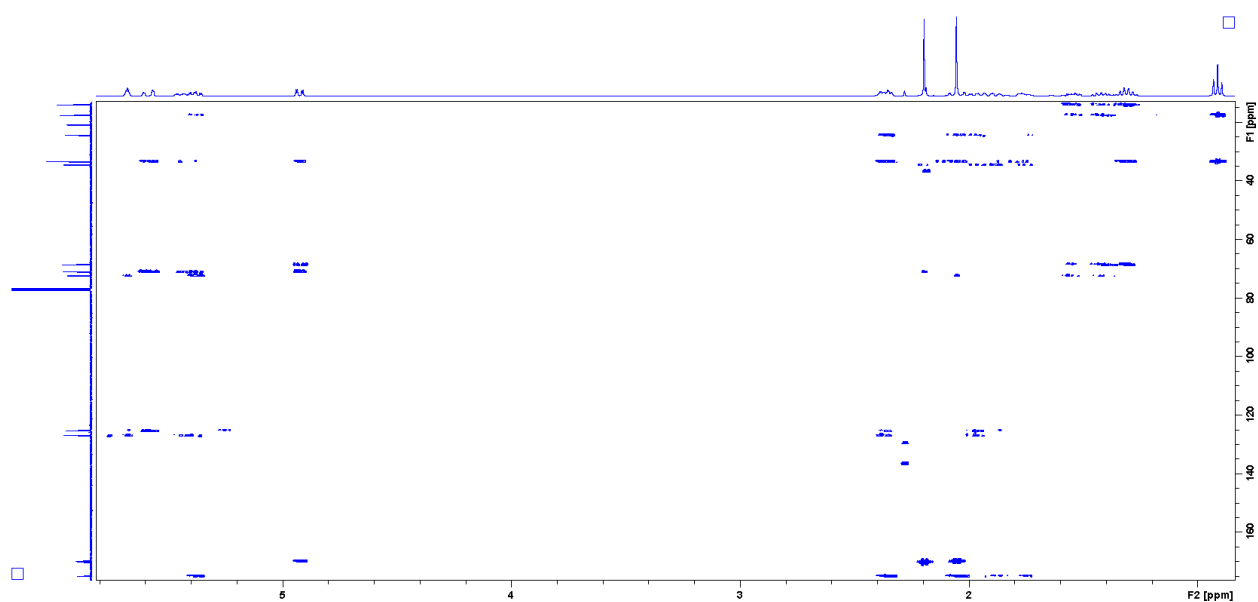


Figure S12 – HMBC spectrum of compound **6**

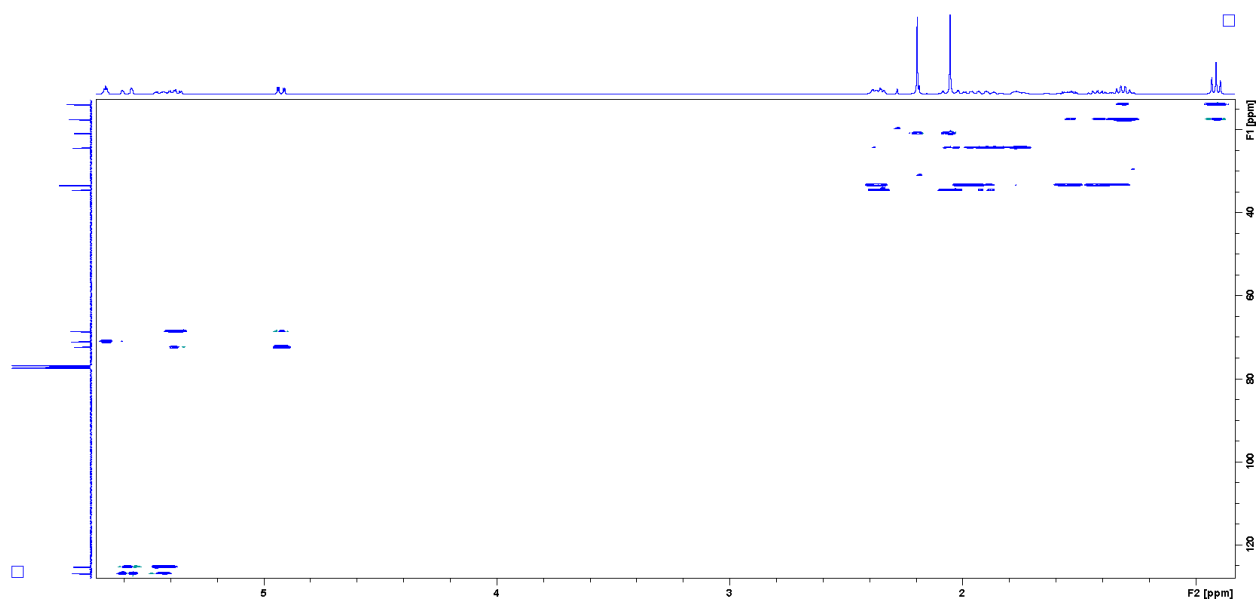


Figure S13 – HSQC spectrum of compound **6**

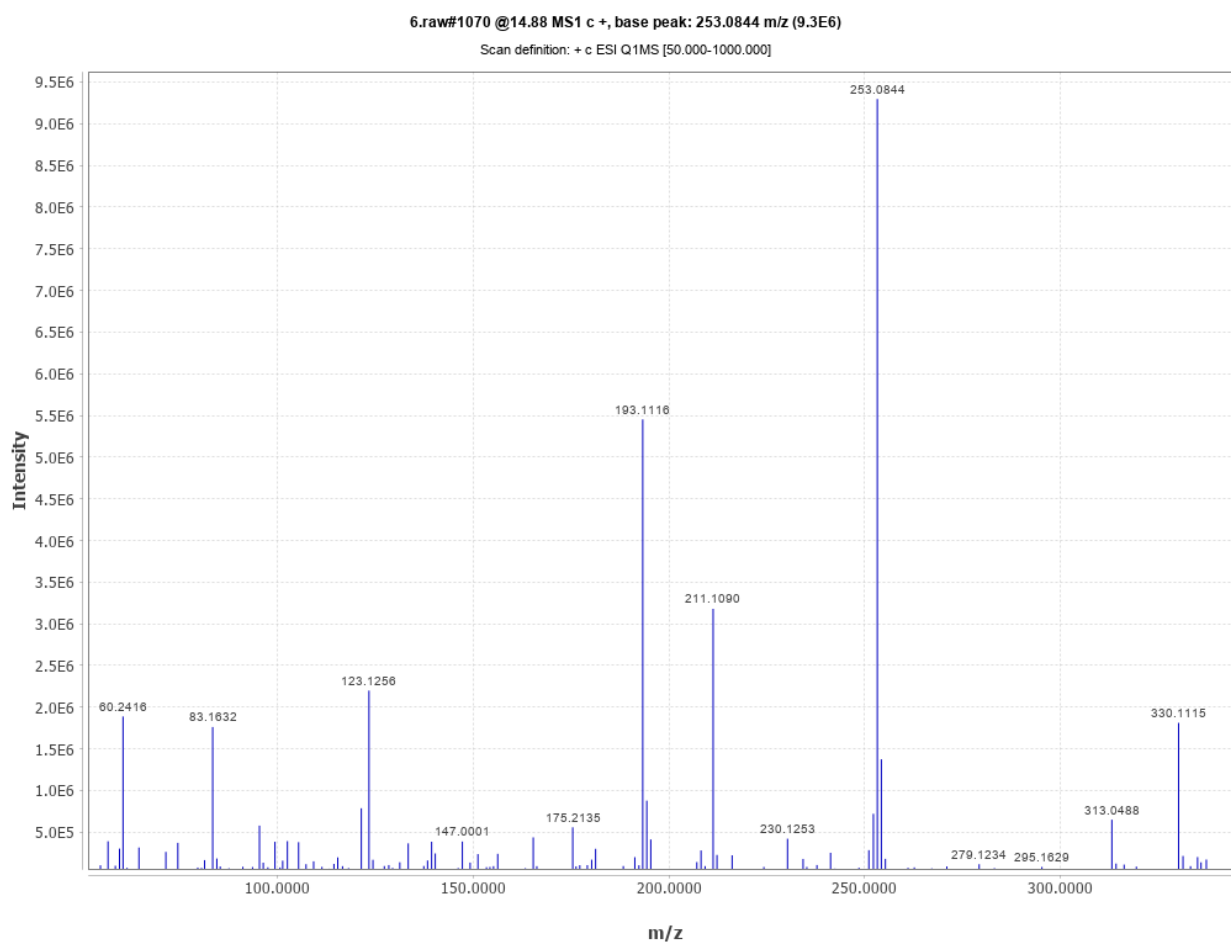


Figure S14 – ESIMS of compound **6** recorded in positive ion mode

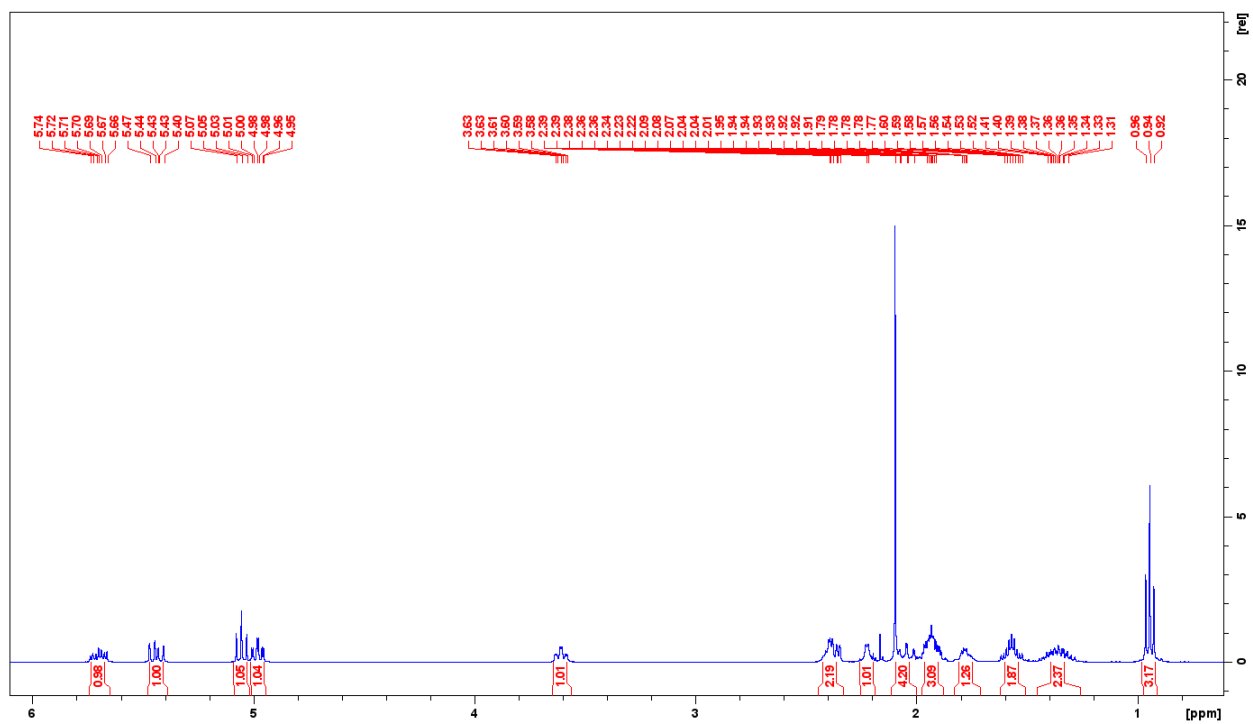


Figure S15 – ¹H NMR spectrum of compound **7**

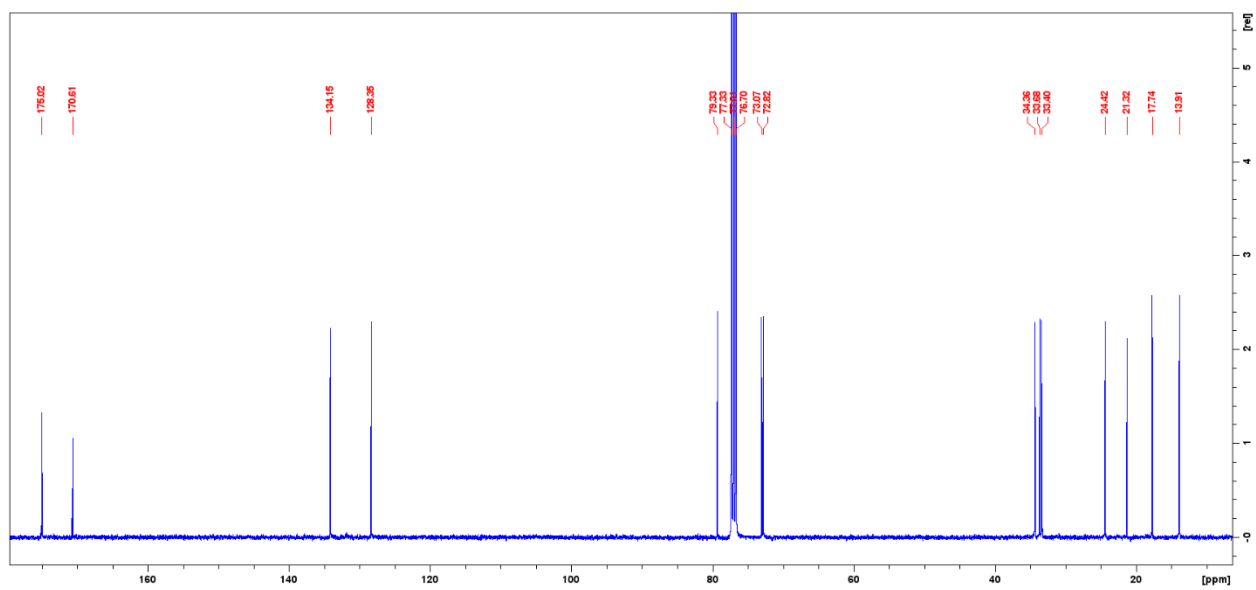


Figure S16 – ¹³C NMR spectrum of compound **7**

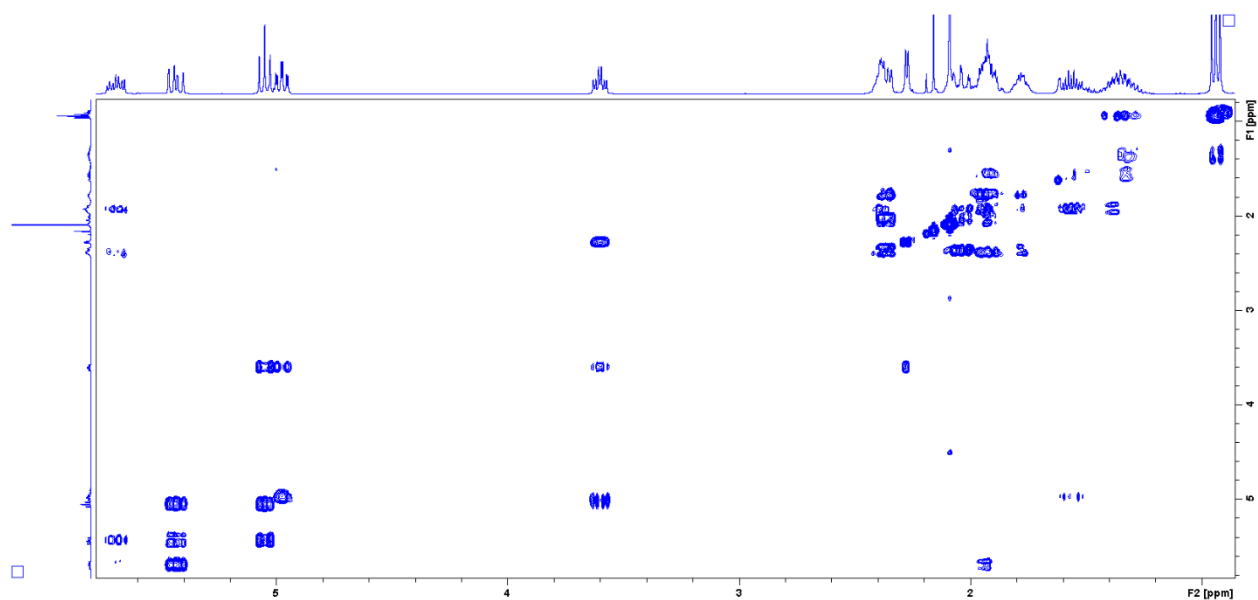


Figure S17 – COSY spectrum of compound **7**

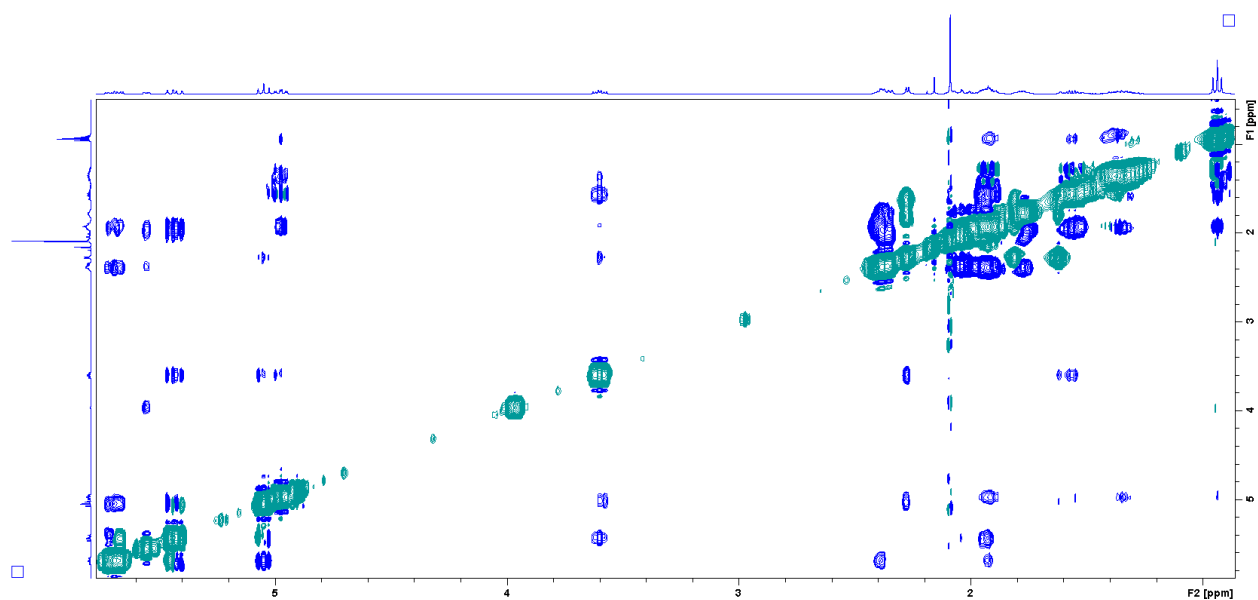


Figure S18 – NOESY spectrum of compound **7**

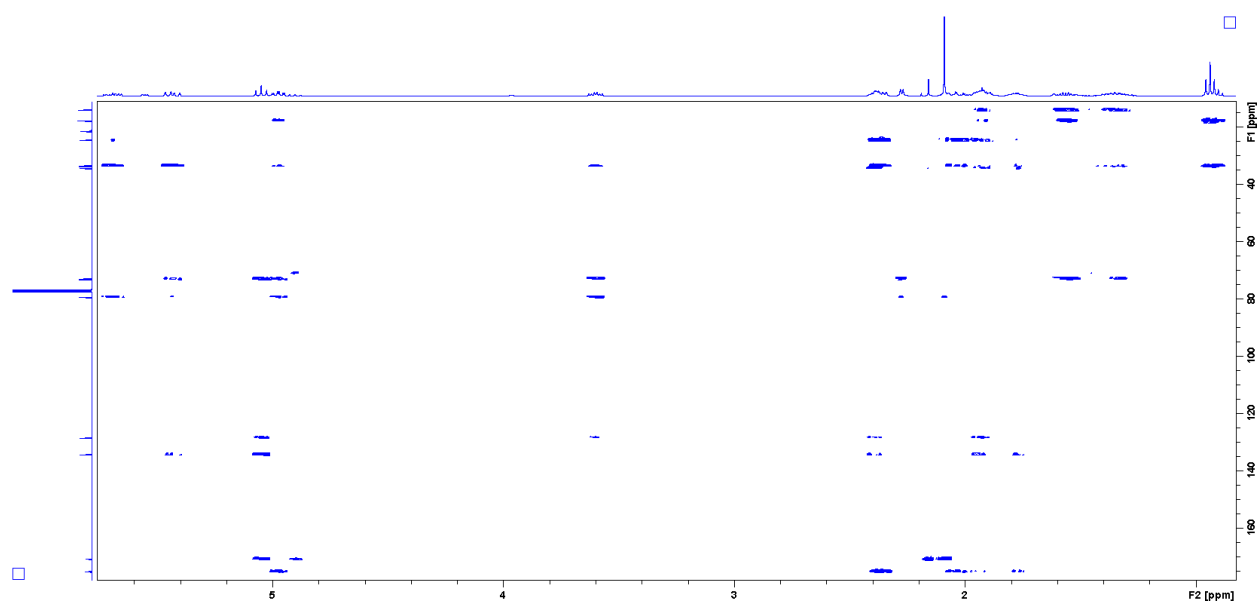


Figure S19 – HMBC spectrum of compound **7**

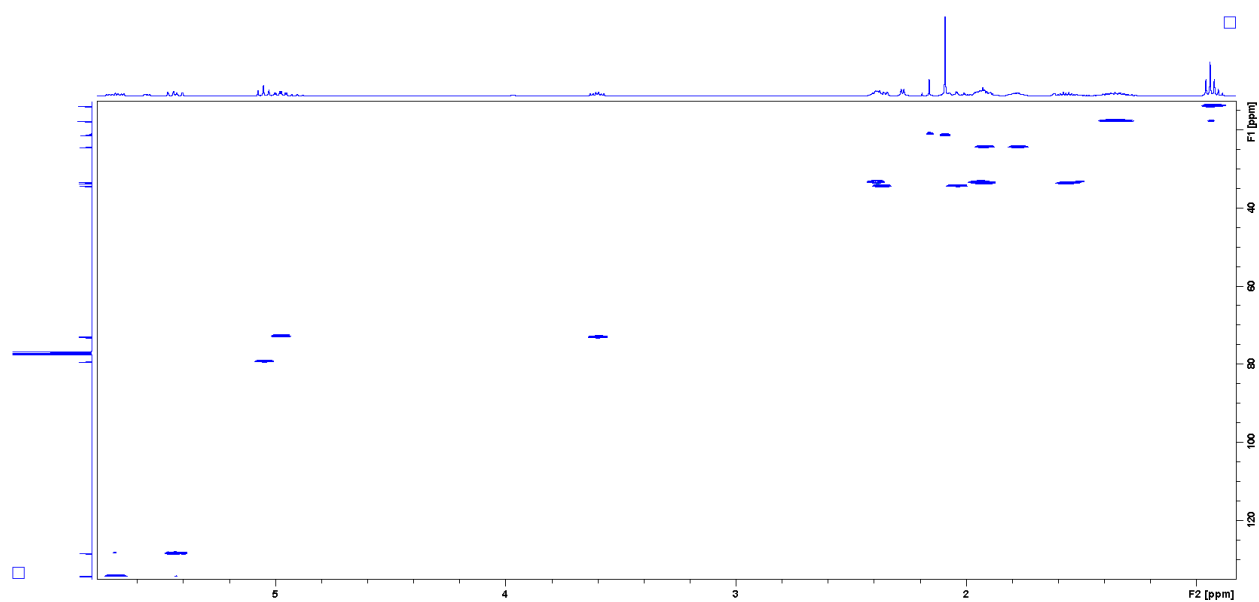


Figure S20 – HSQC spectrum of compound **7**

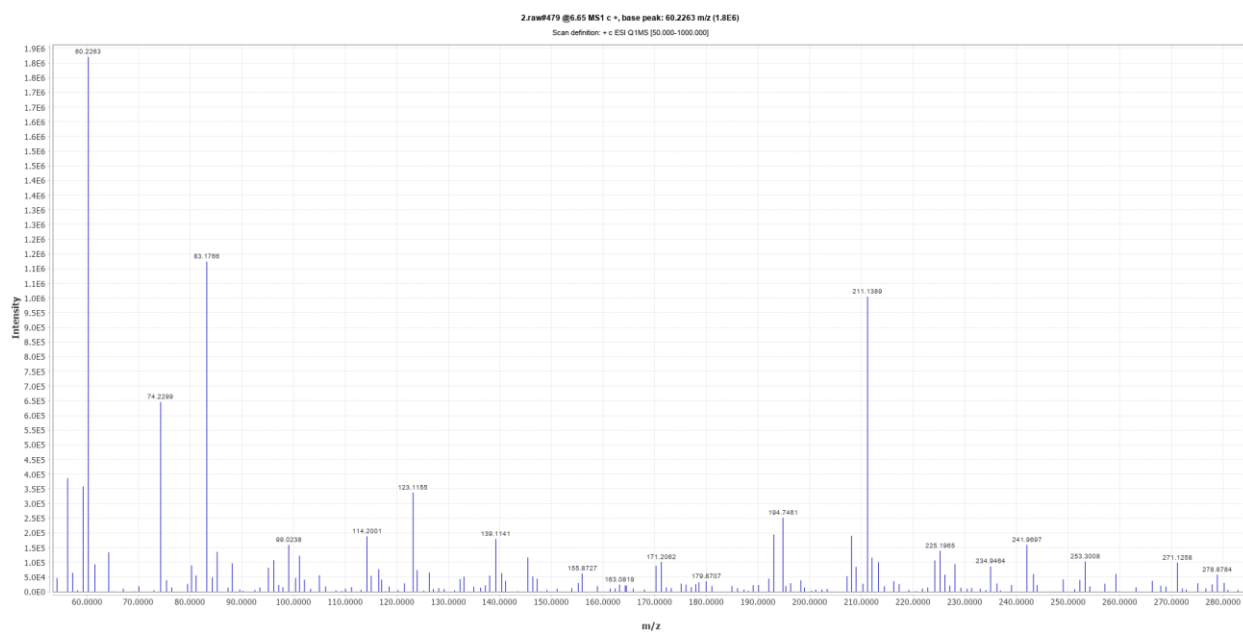


Figure S21 – ESIMS of compound **7** recorded in positive ion mode

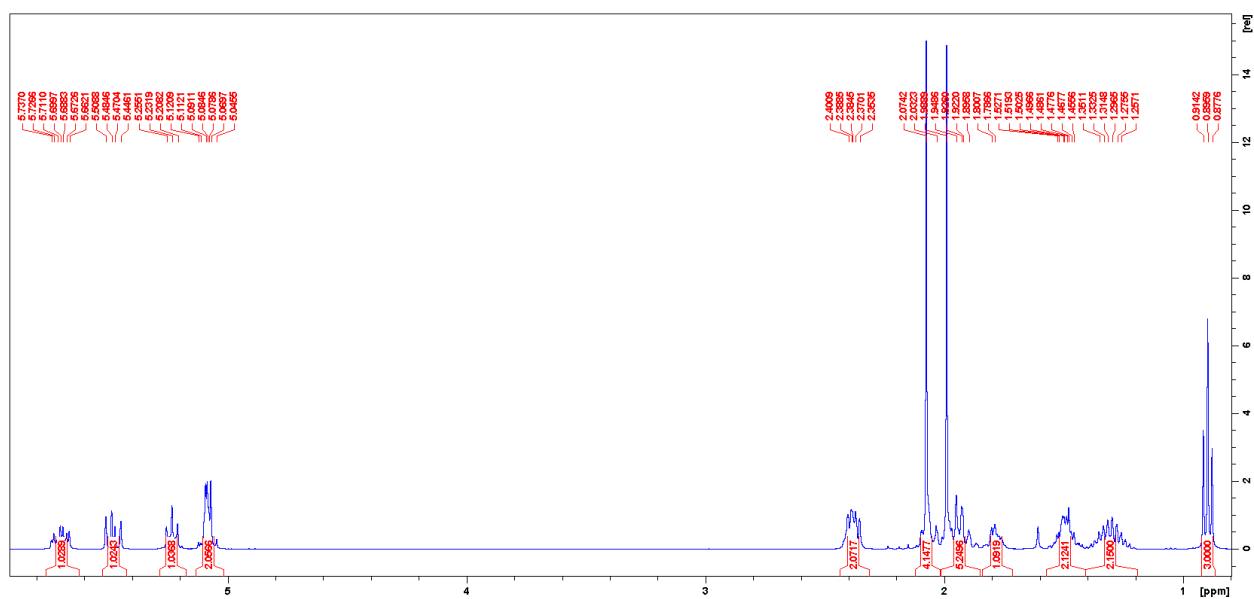


Figure S22 – ^1H NMR spectrum of compound **8**

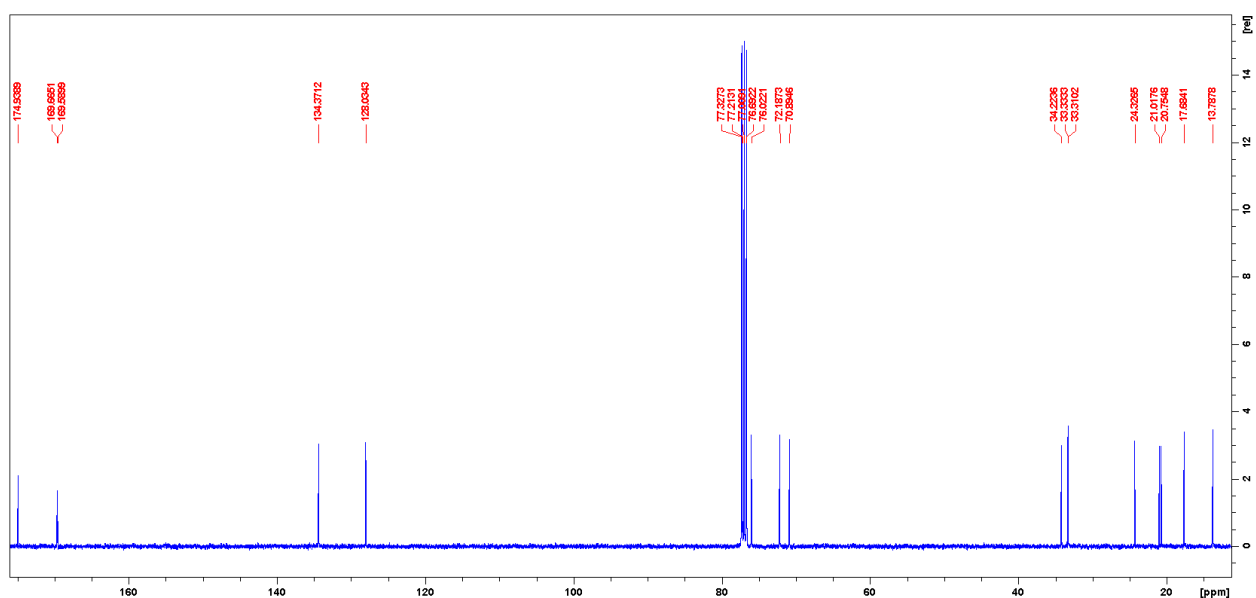


Figure S23 – ¹³C NMR spectrum of compound **8**

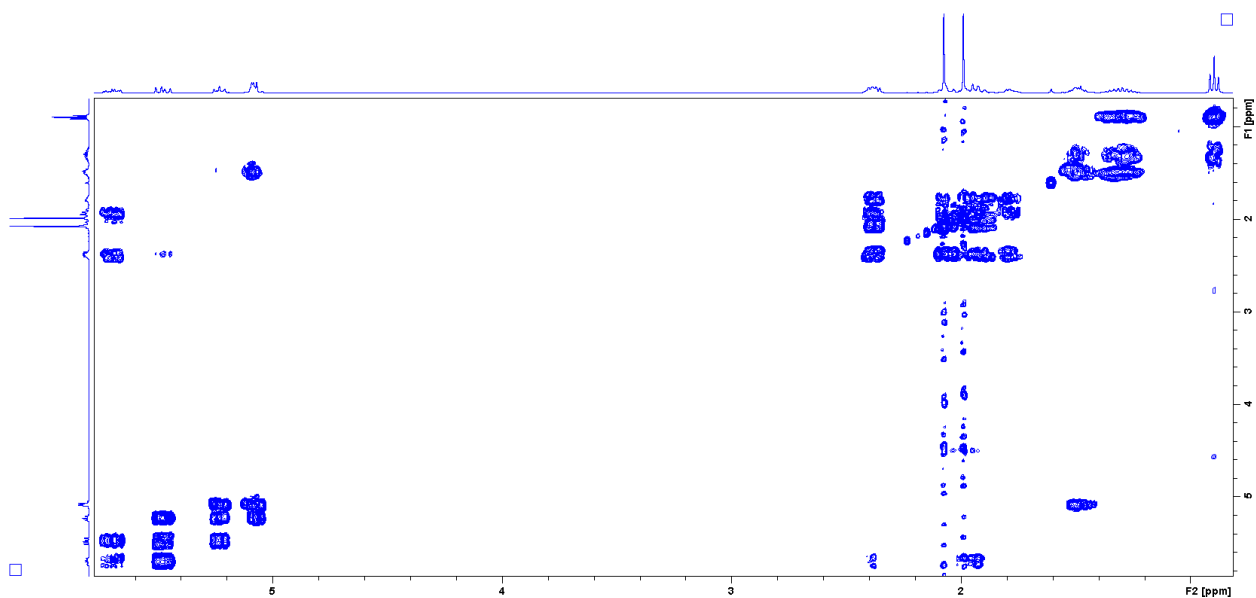


Figure S24 – COSY spectrum of compound **8**

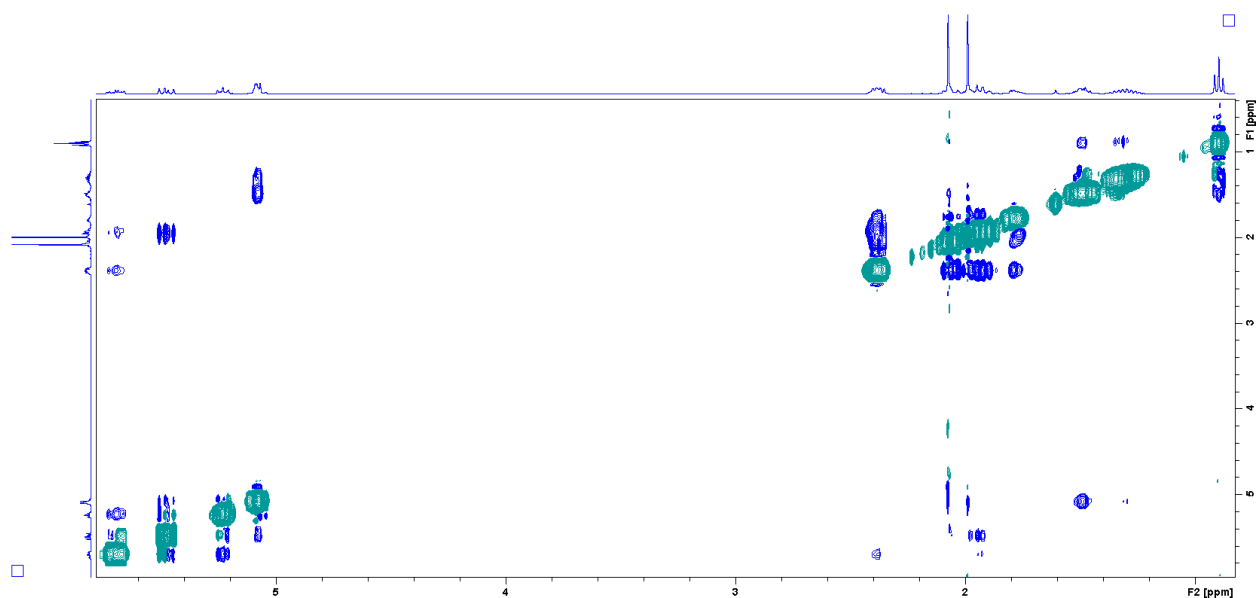


Figure S25 – NOESY spectrum of compound **8**

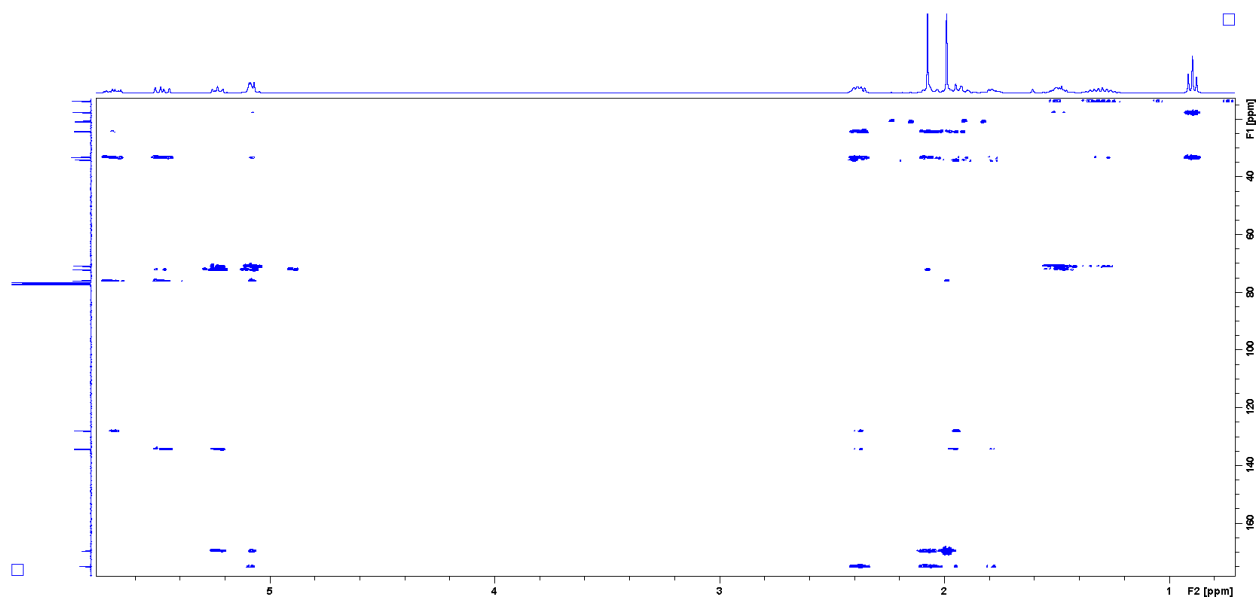


Figure S26 – HMBC spectrum of compound **8**

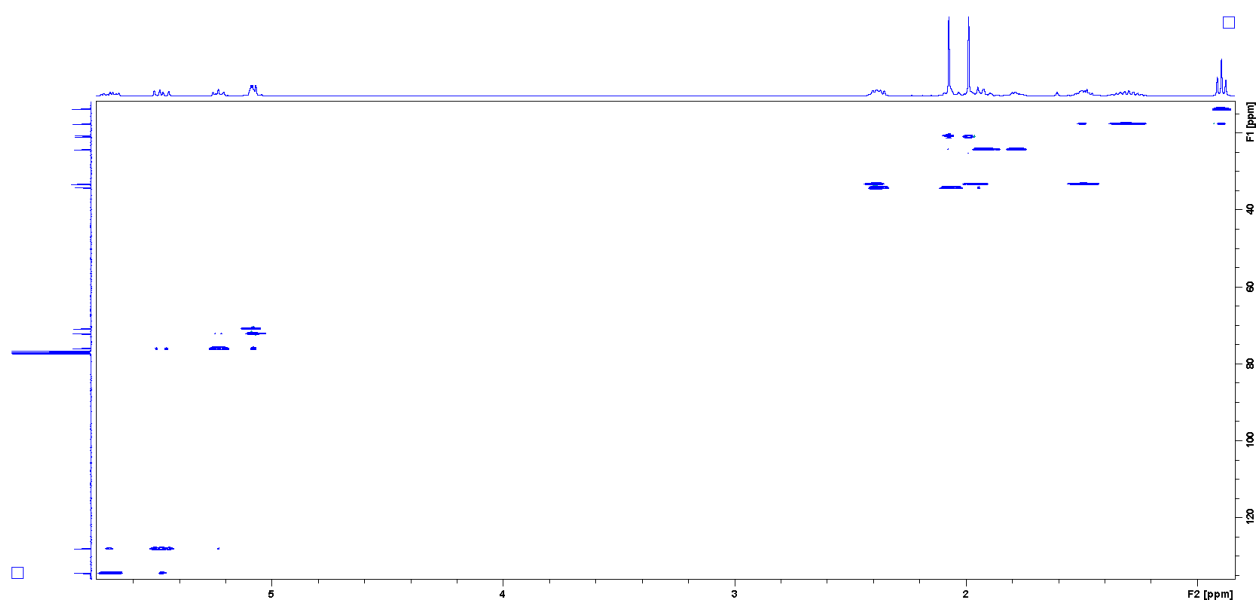


Figure S27 – HSQC spectrum of compound **8**

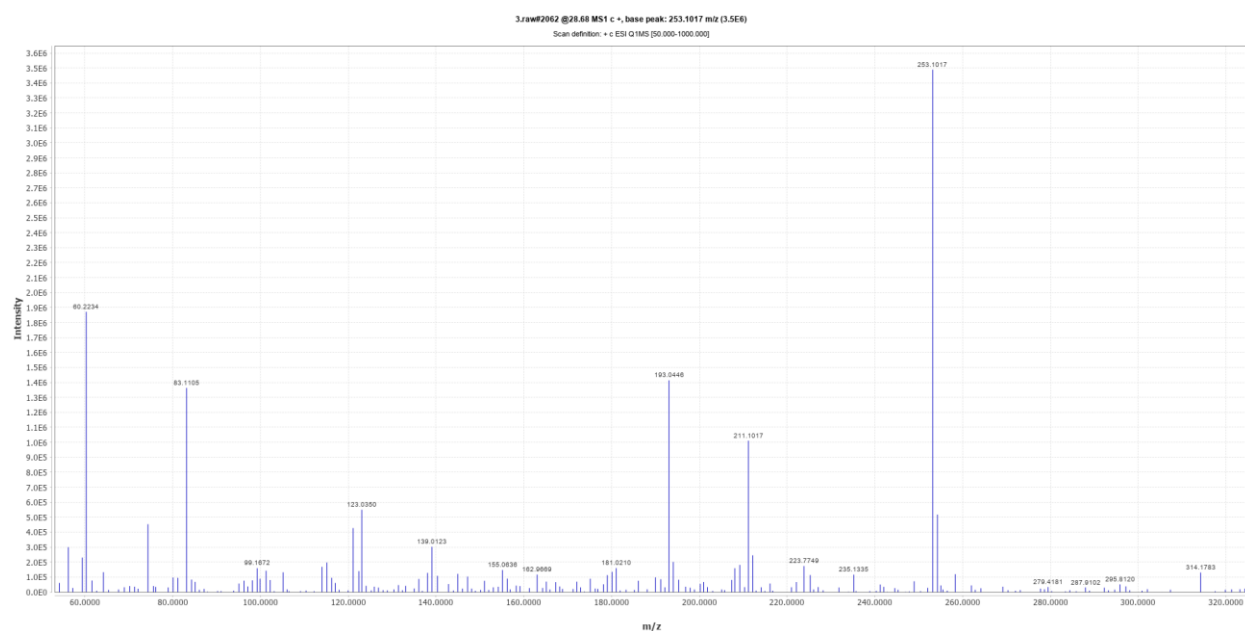


Figure S28 – ESIMS of compound **8** recorded in positive ion mode



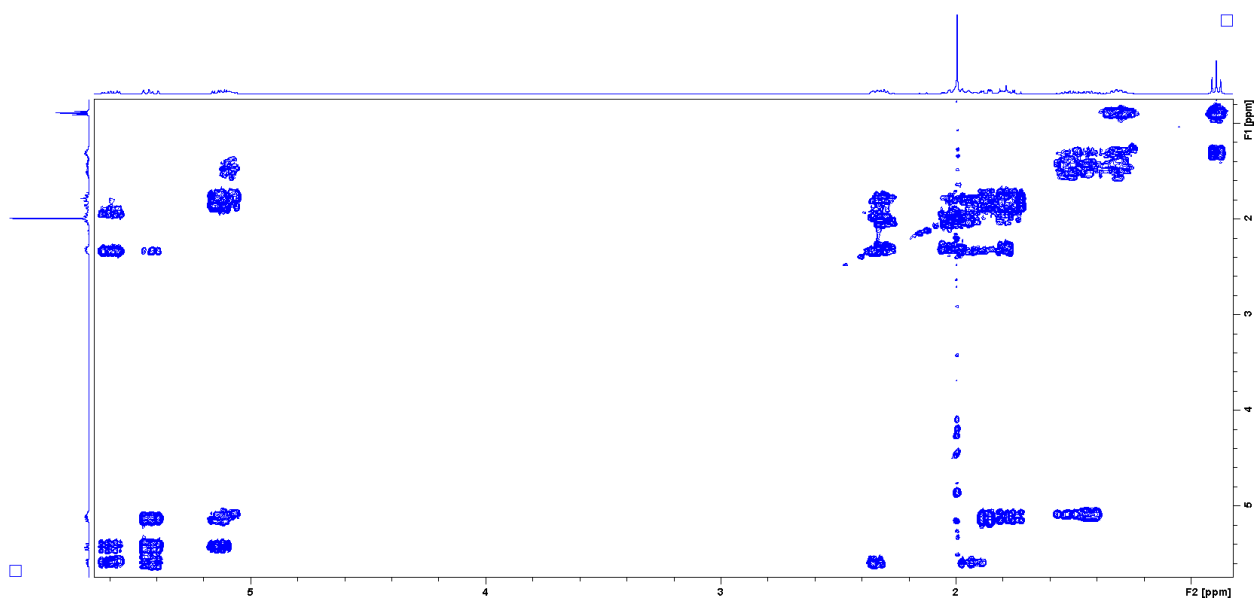


Figure S31 – COSY spectrum of compound **9**

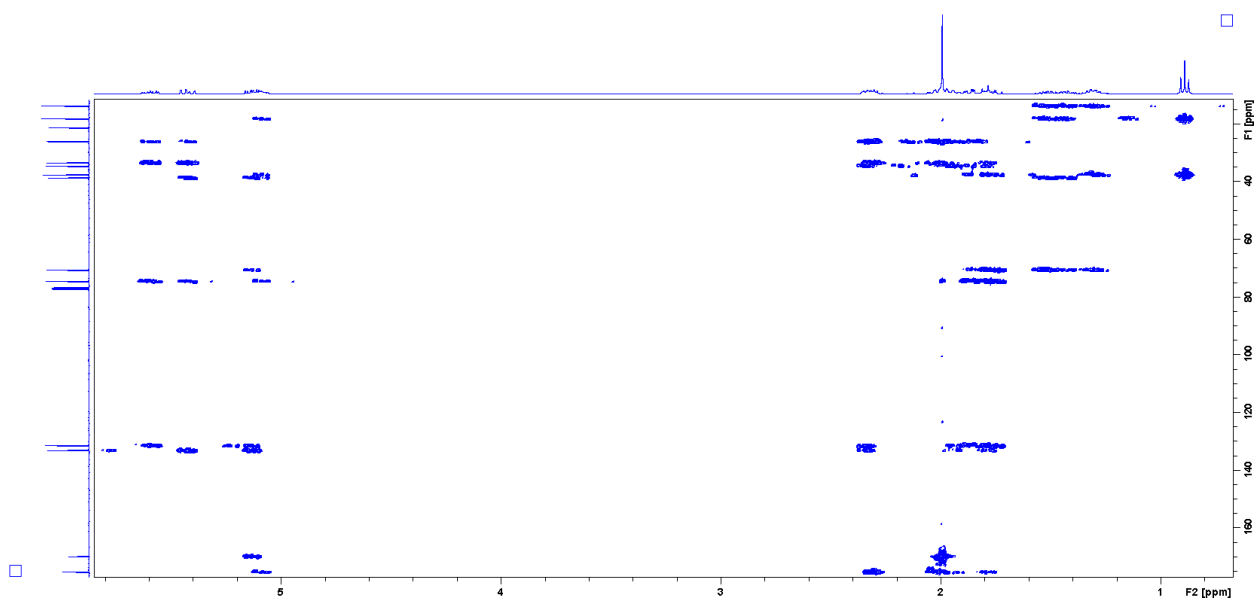


Figure S32 – HMBC spectrum of compound **9**

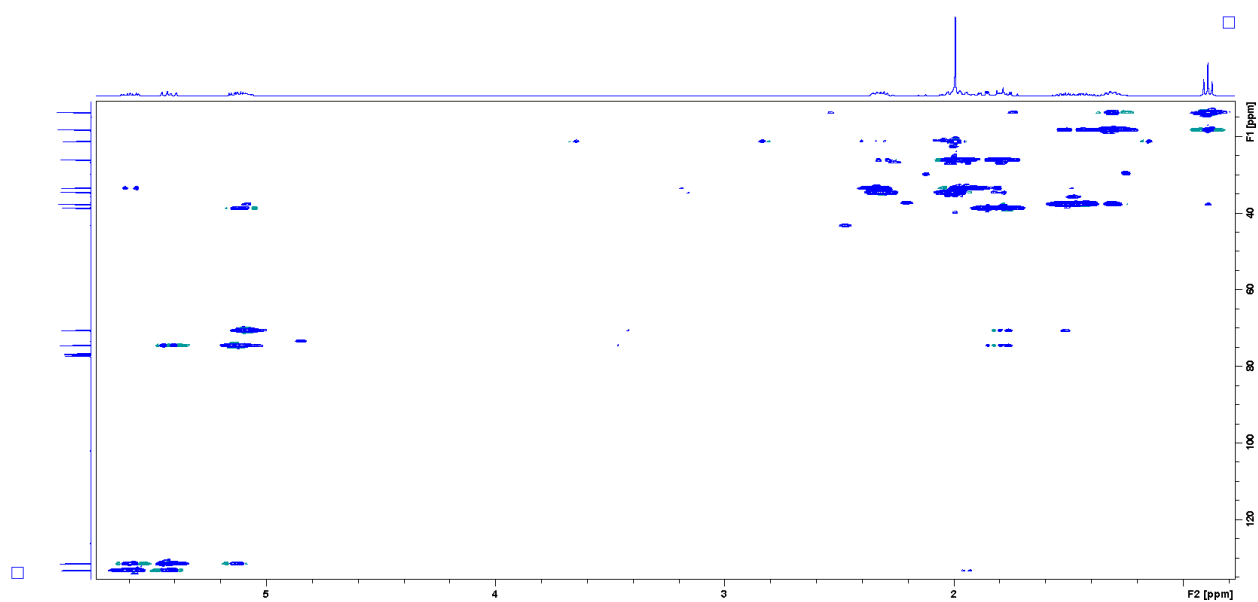


Figure S33 – HSQC spectrum of compound **9**

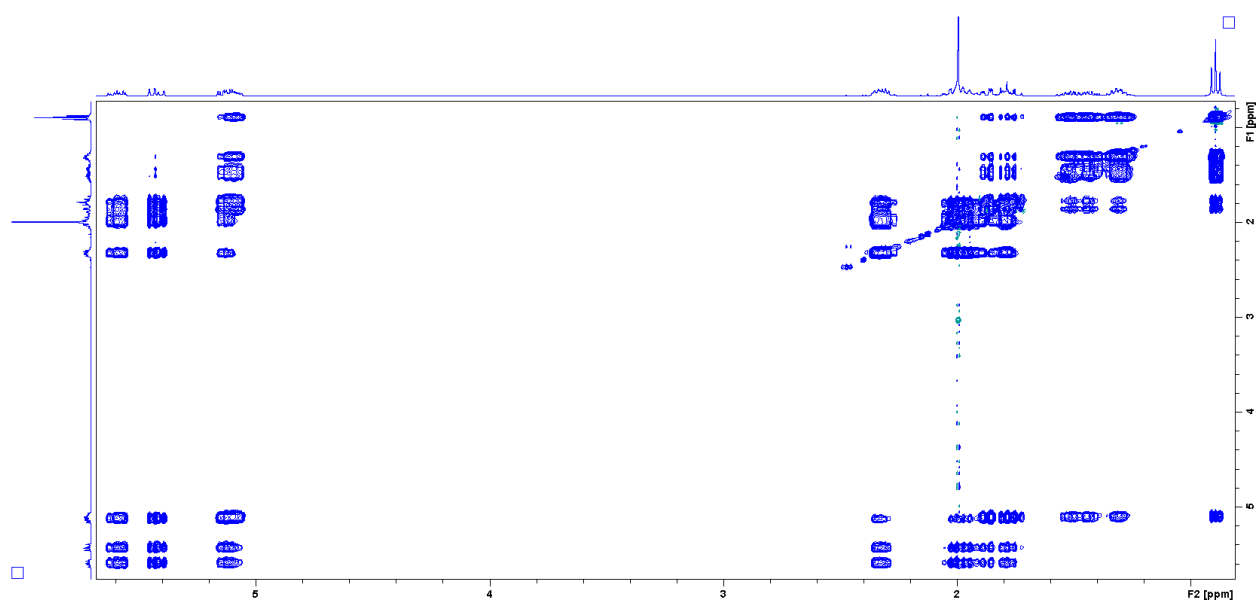


Figure S34 – TOCSY spectrum of compound **9**

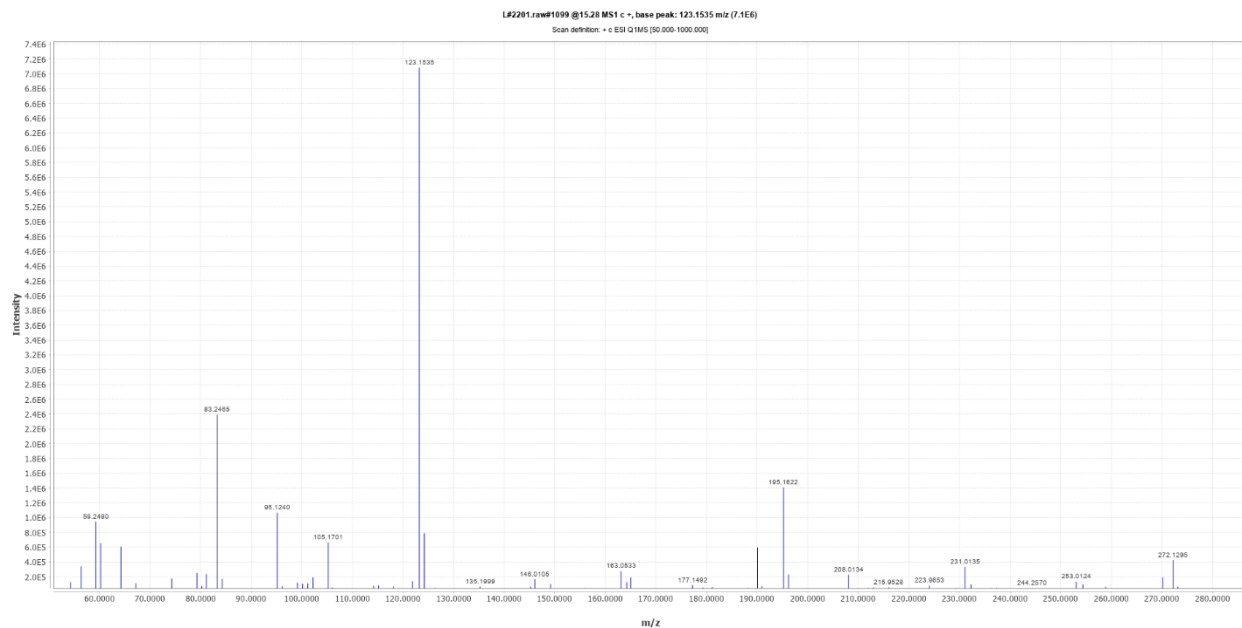


Figure S35 – ESIMS of compound **9** recorded in positive ion mode

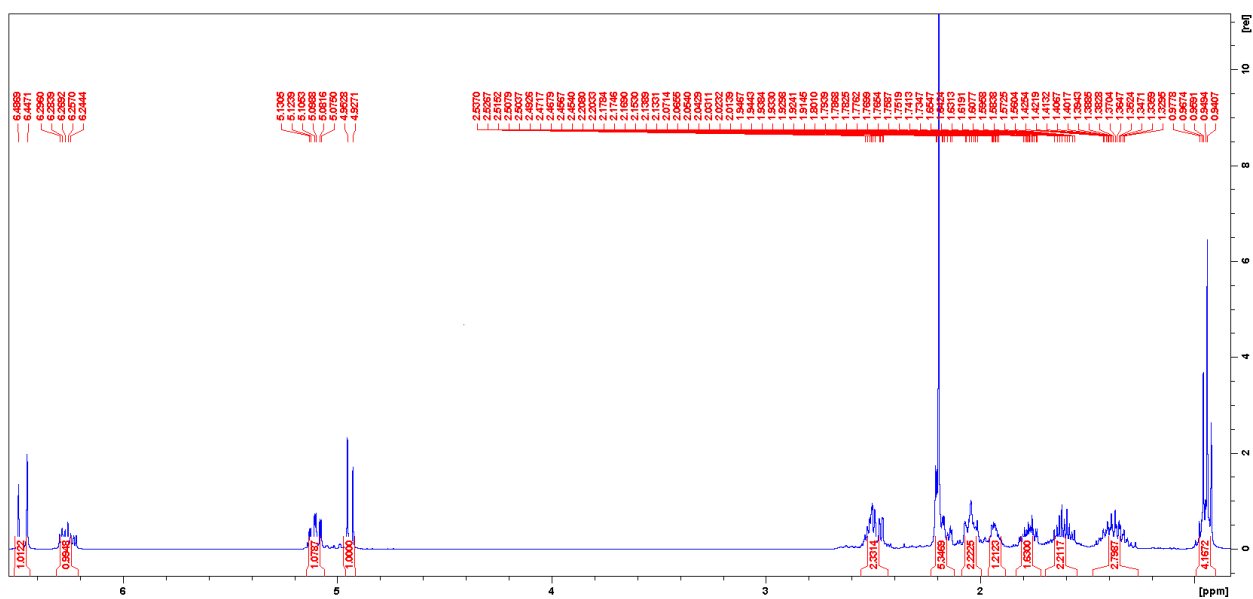


Figure S36 – ^1H NMR spectrum of compound **10**

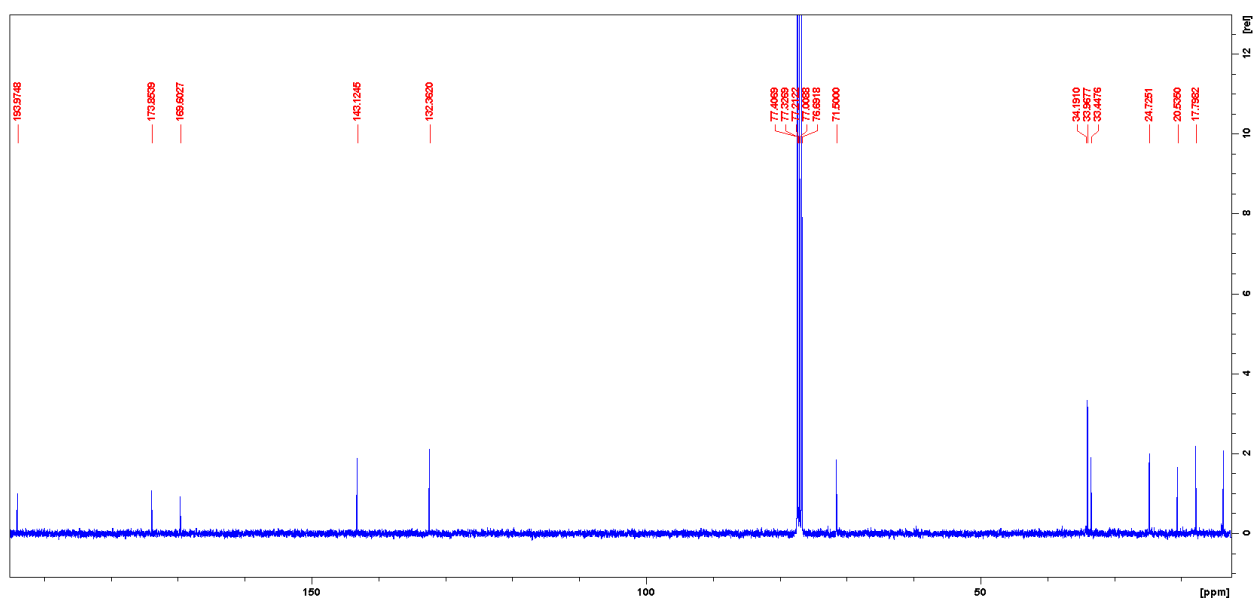


Figure S37 – ^{13}C NMR spectrum of compound **10**

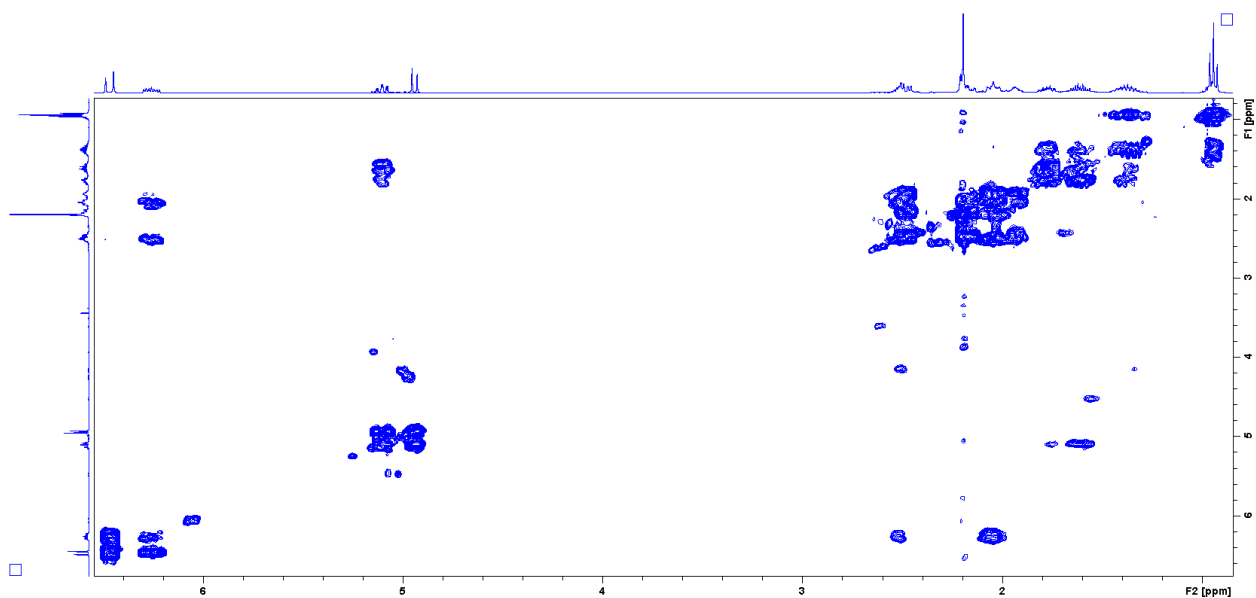


Figure S38 – COSY spectrum of compound **10**

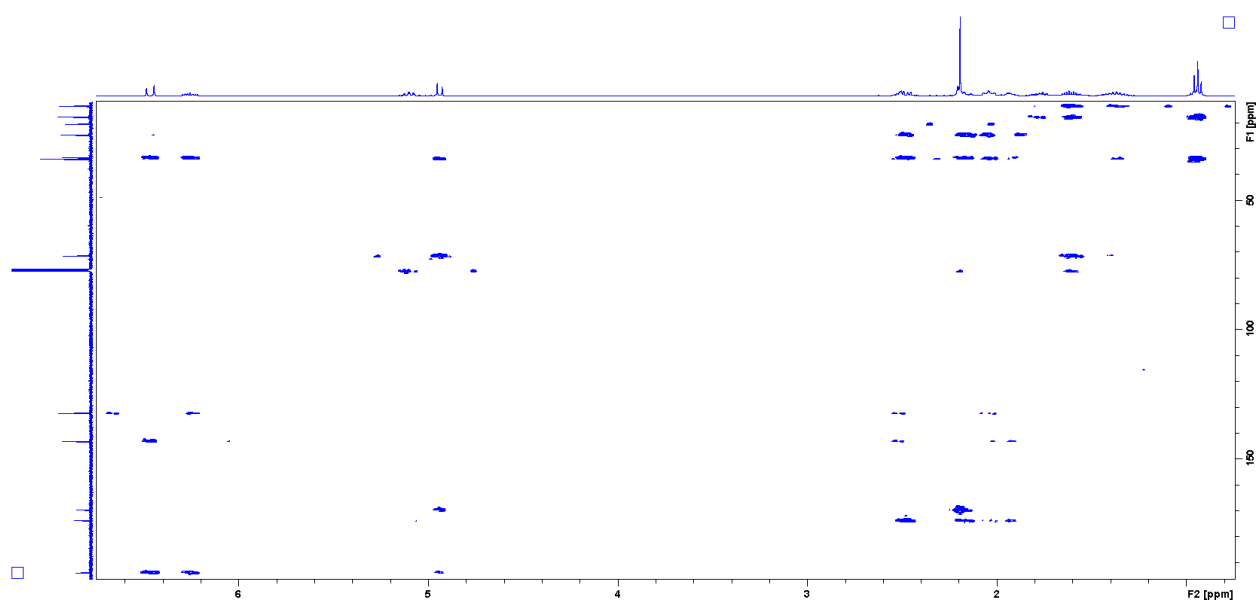


Figure S39 – HMBC spectrum of compound **10**

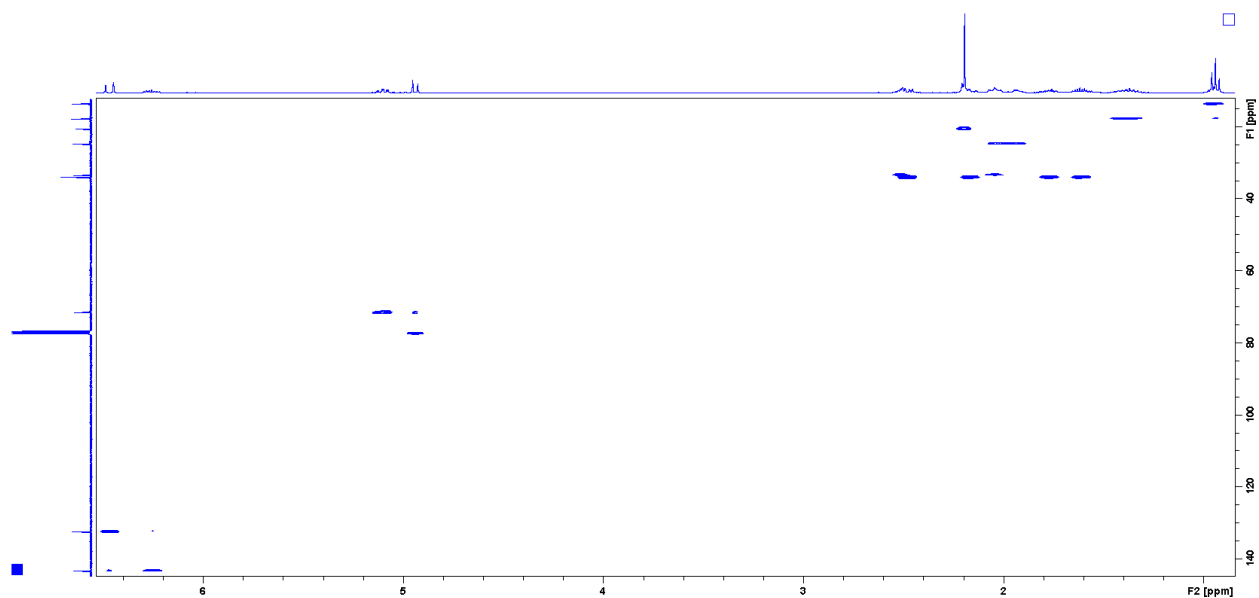


Figure S40 – HSQC spectrum of compound **10**

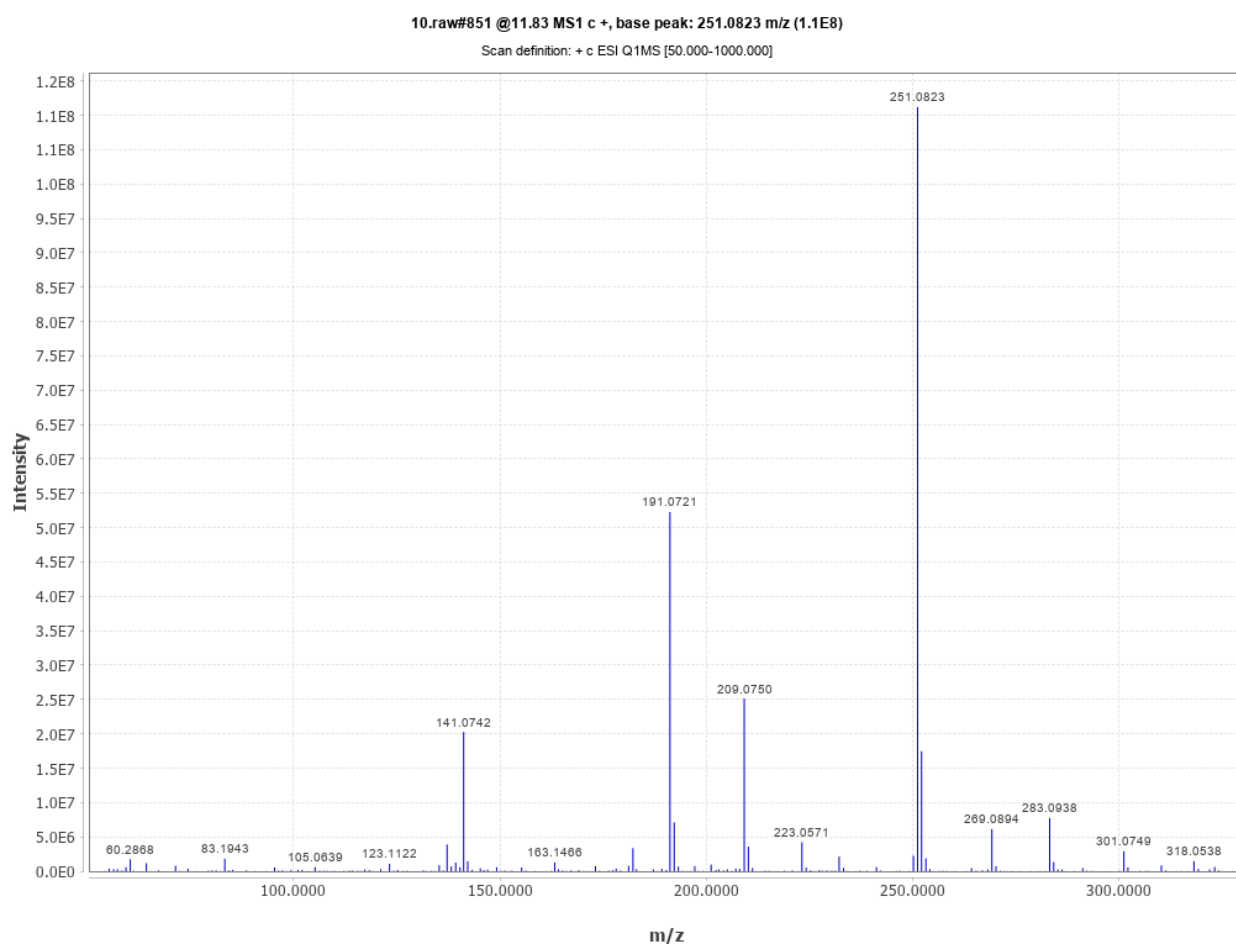


Figure S41 – ESIMS of compound **10** recorded in positive ion mode

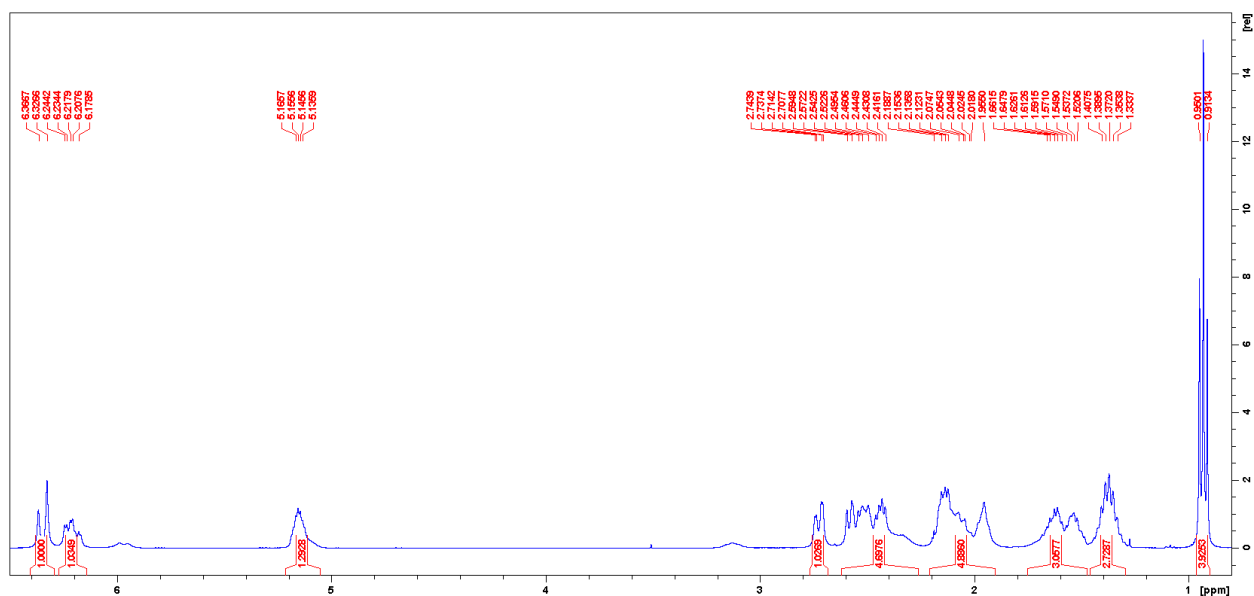


Figure S42 – ^1H NMR spectrum of compound **11**

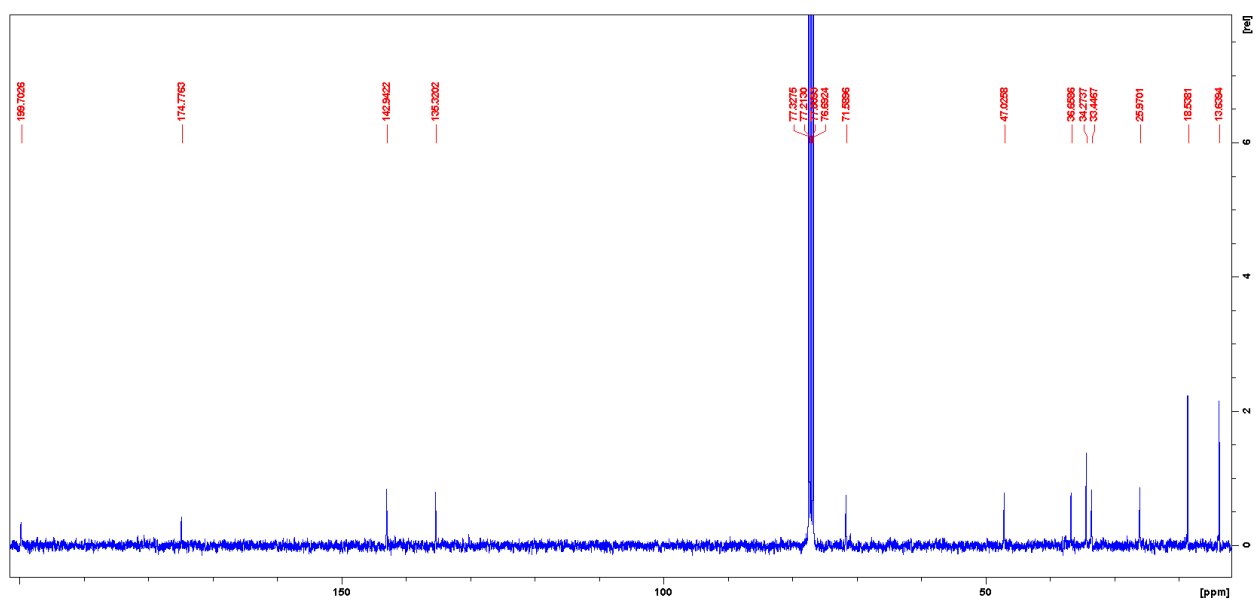


Figure S43 ^{13}C NMR spectrum of compound **11**

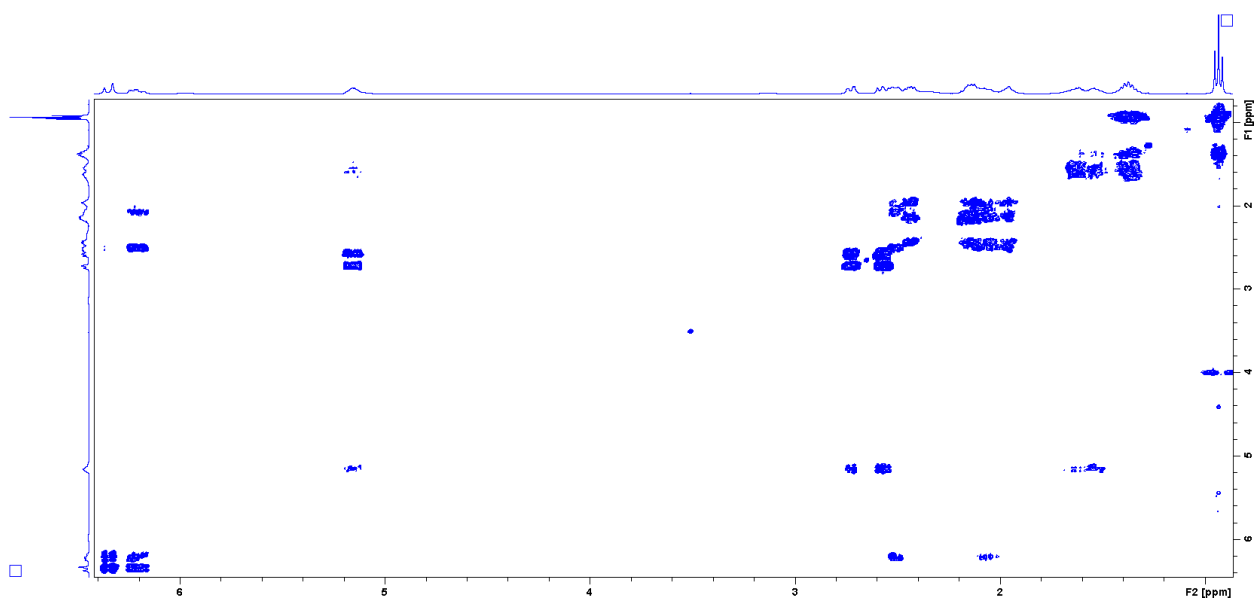


Figure S44 – COSY spectrum of compound **11**

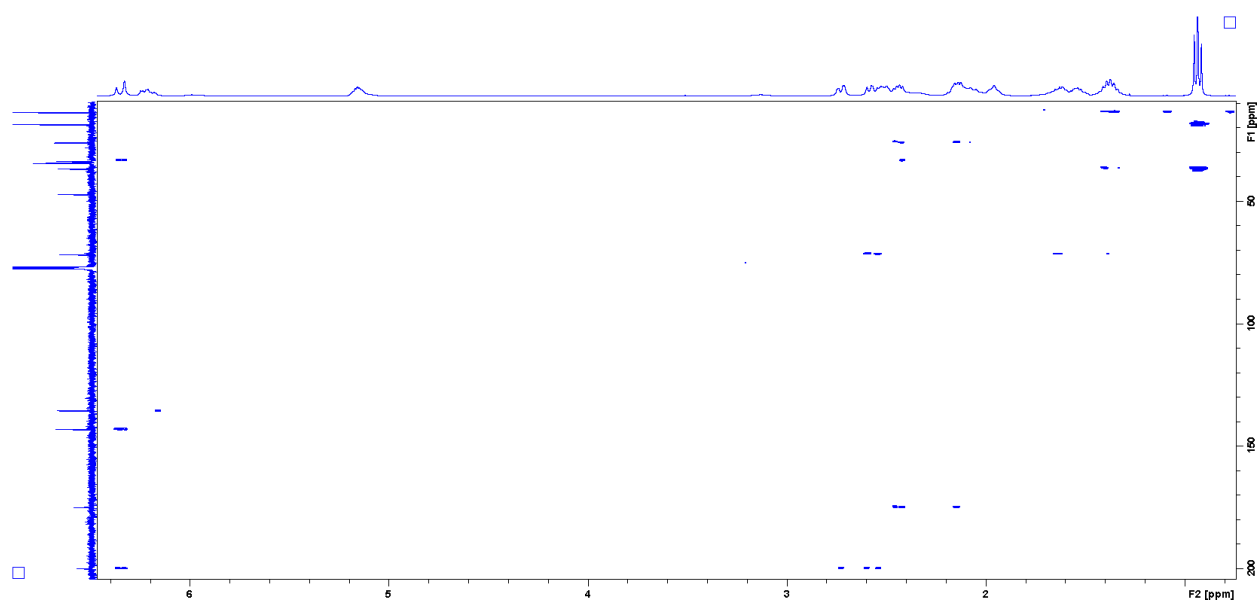


Figure S45 – HMBC spectrum of compound **11**

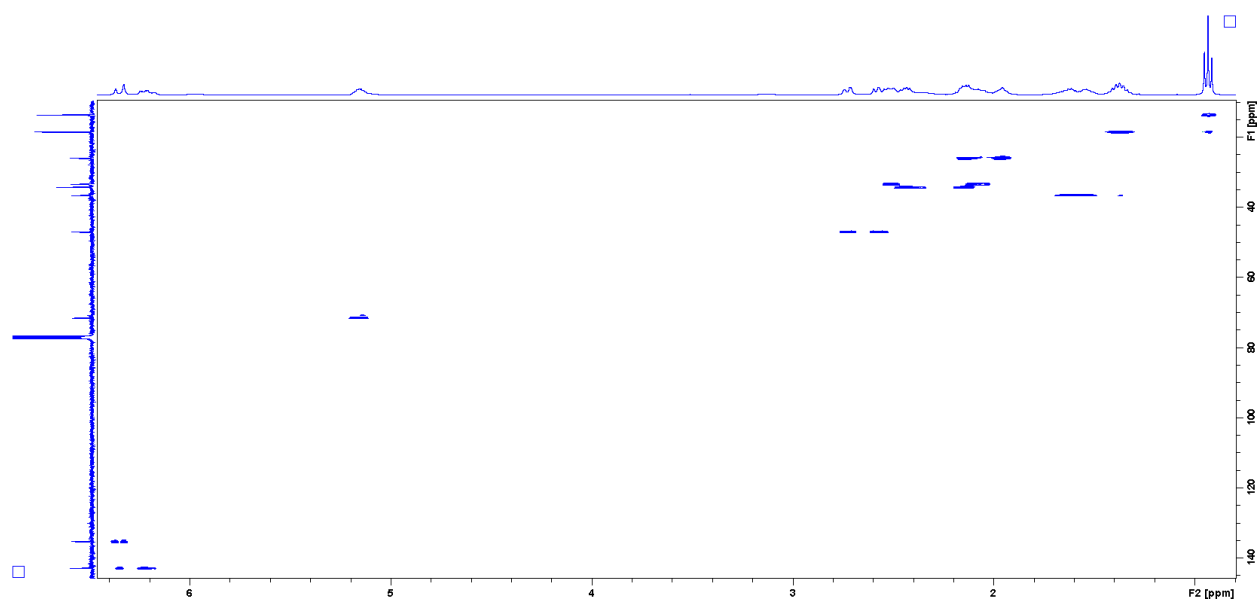


Figure S46 – HSQC spectrum of compound **11**

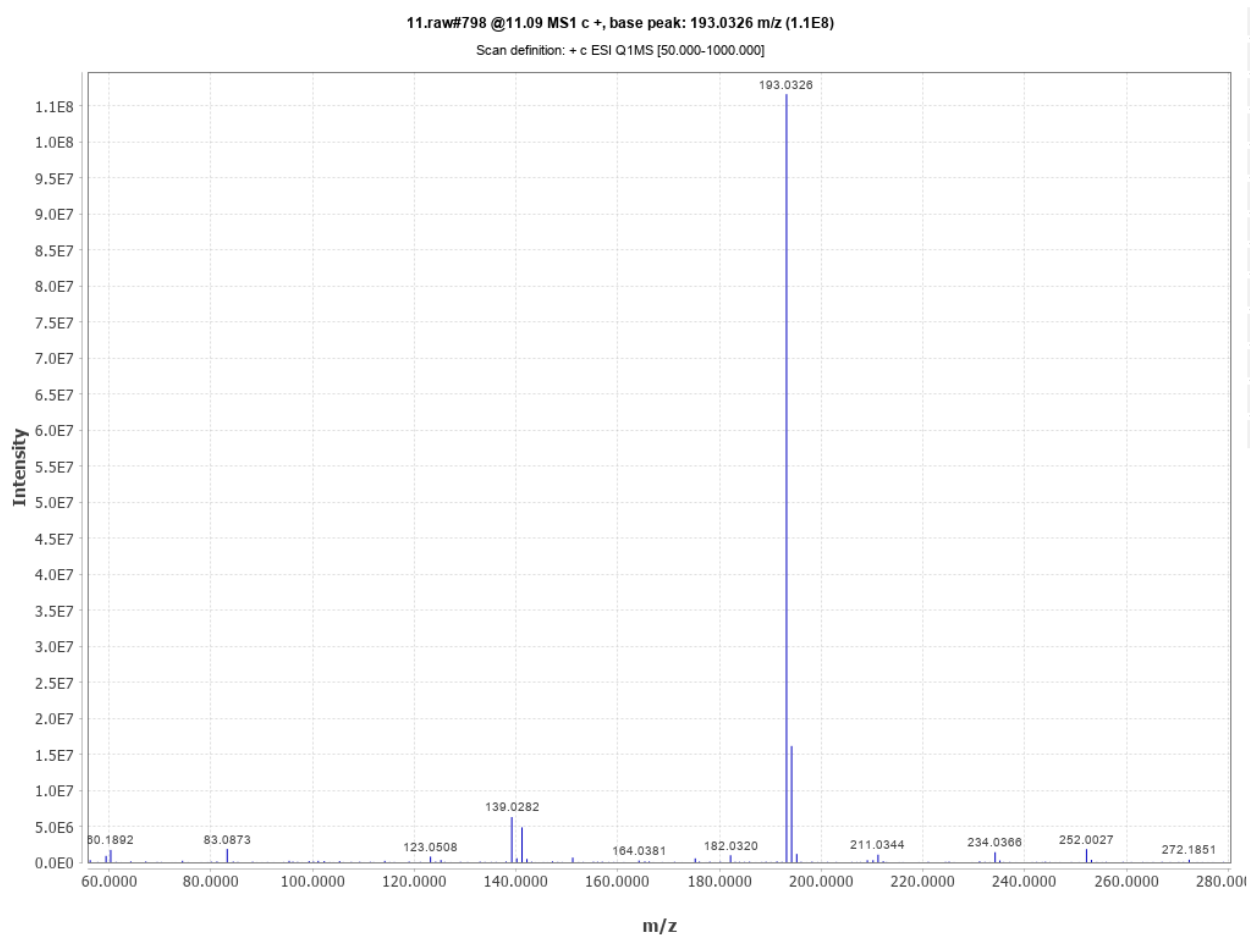


Figure S47 – ESIMS of compound **11** recorded in positive ion mode

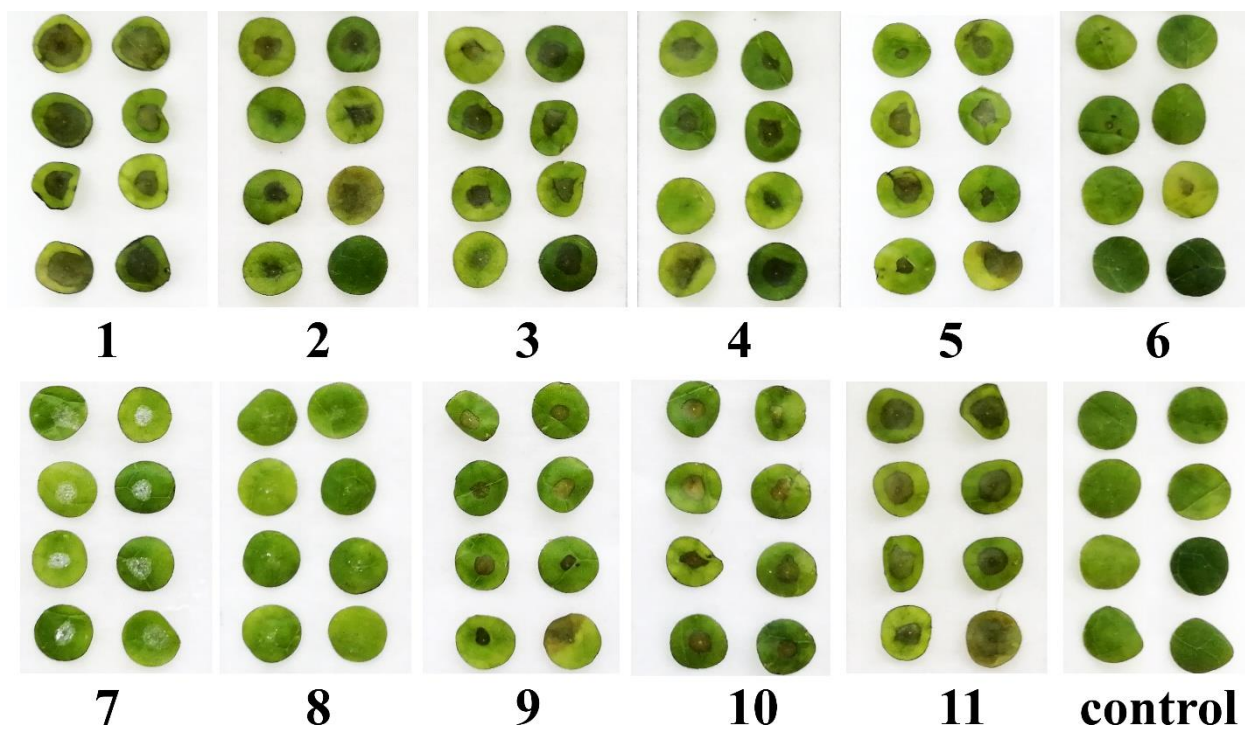


Figure S48 – Phytotoxic activity of compounds **1** – **11** on sowthistle punctured leaf discs at 120 hours after treatment