Supporting Information

For

Design and synthesis of (*Z*)-2-(benzylamino)-5-benzylidenethiazol-4(5*H*)-one derivatives as tyrosinase inhibitors and their anti-melanogenic and antioxidant effects

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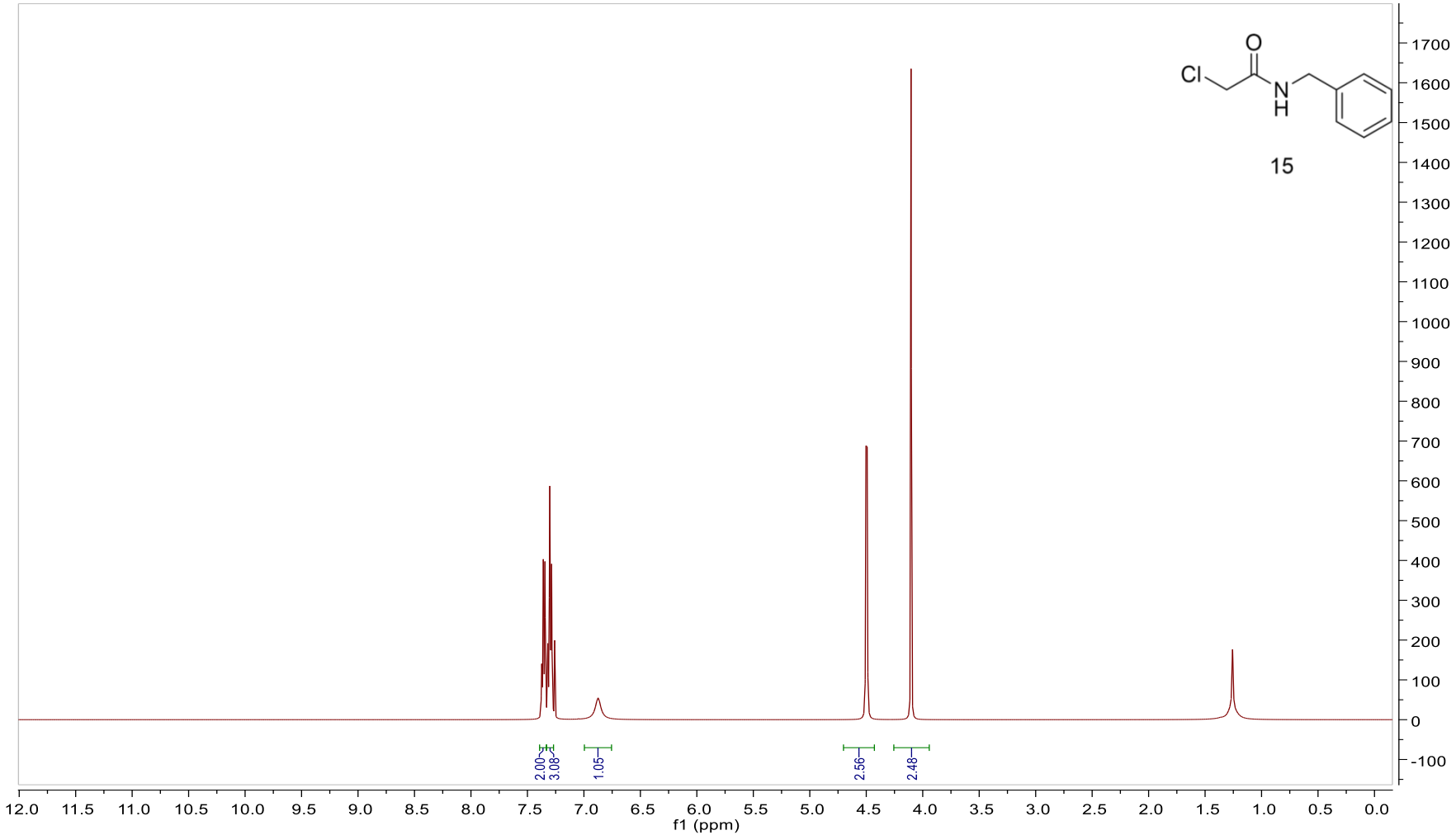


Figure S1. ^{1}H NMR spectrum of compound **15**

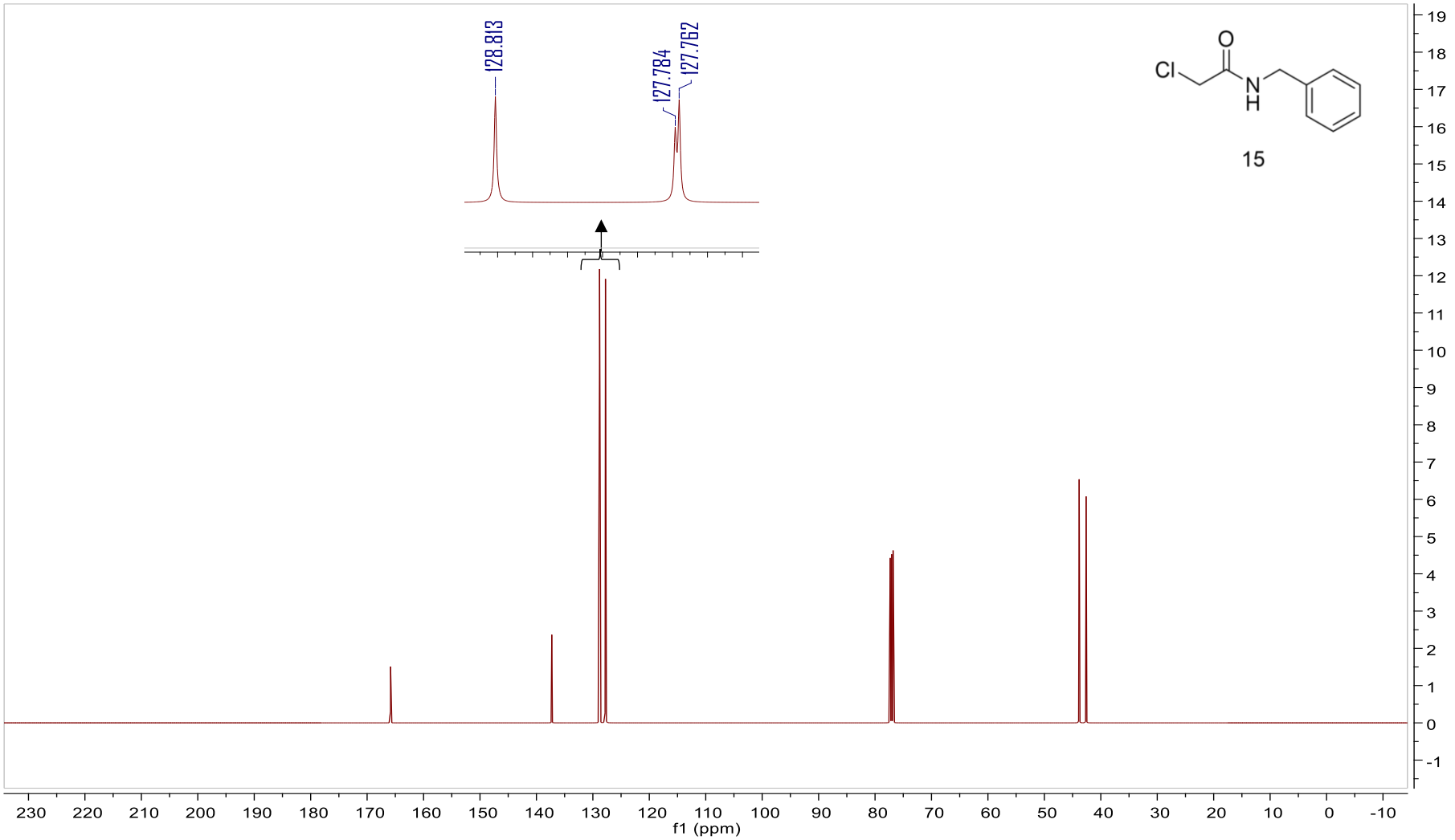


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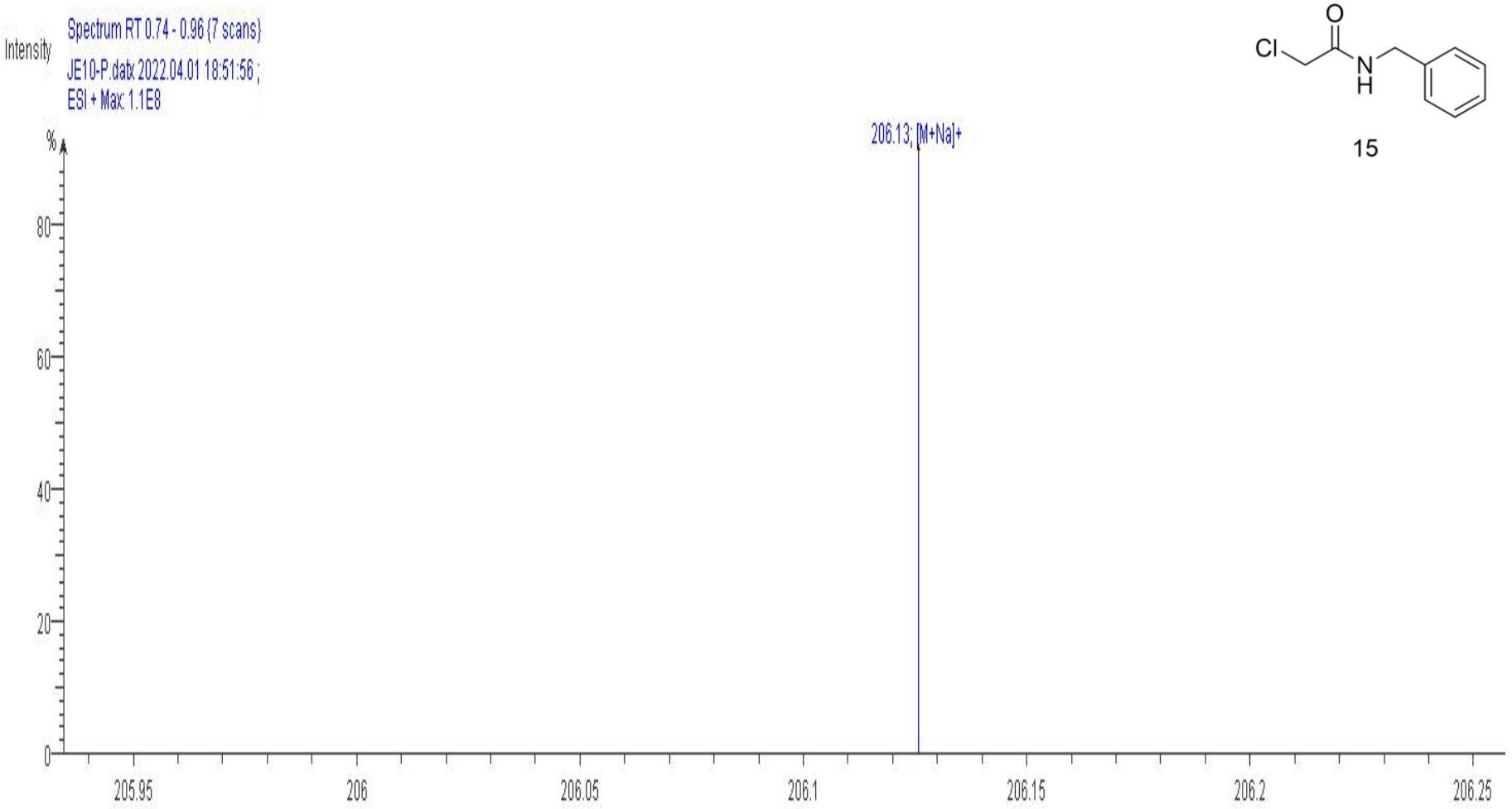


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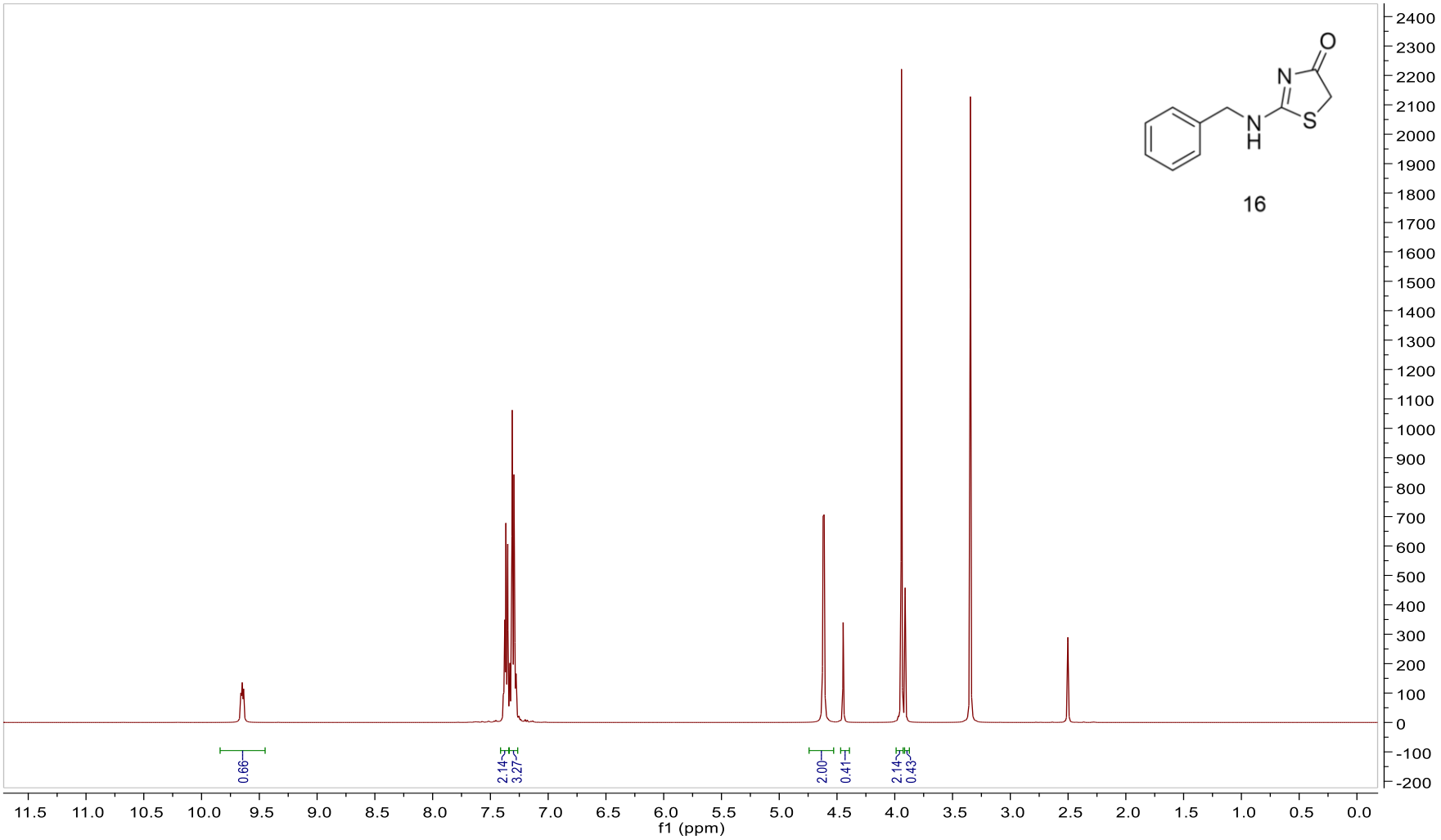


Figure S4. ^{1}H NMR spectrum of compound **16**

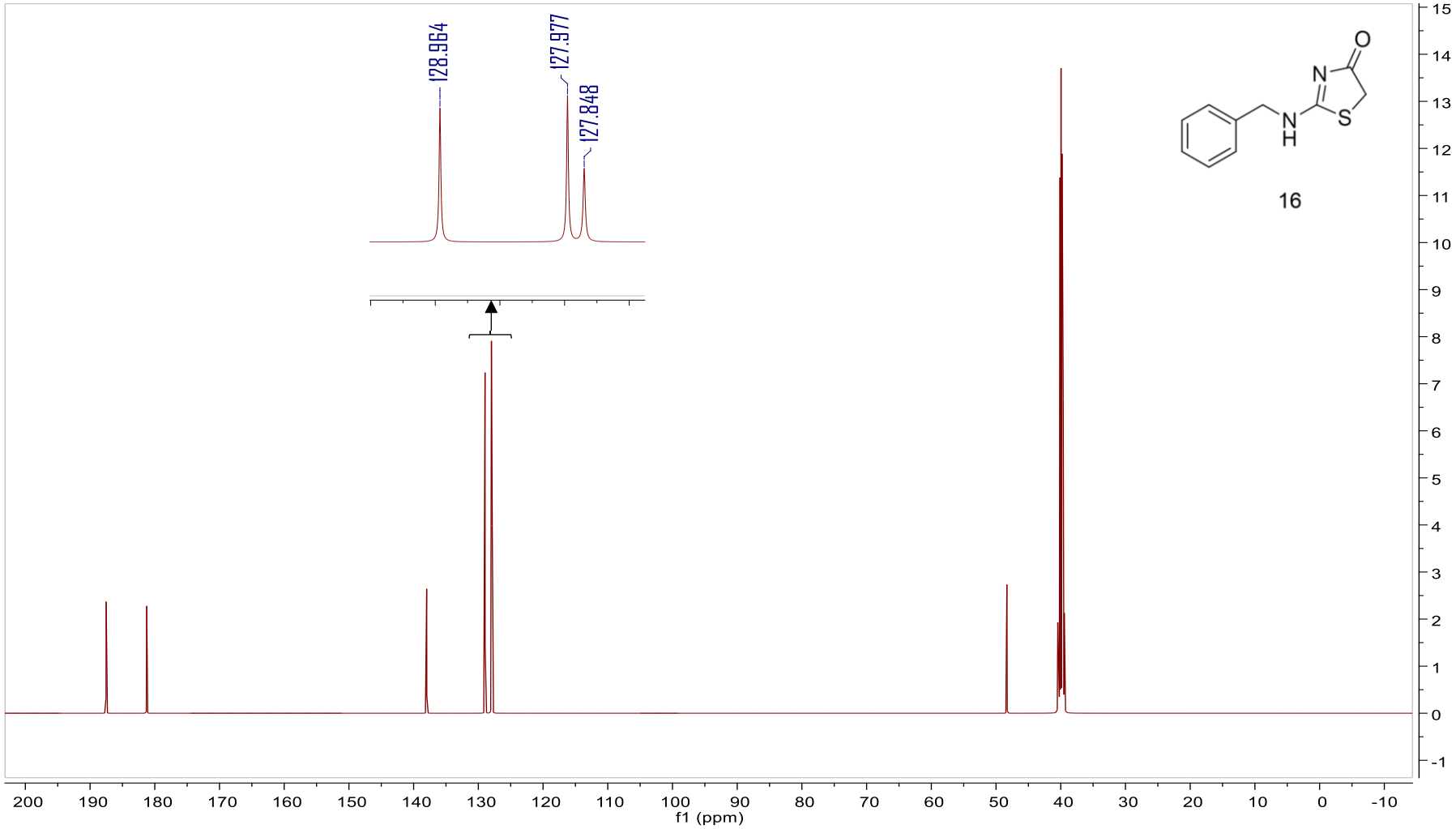


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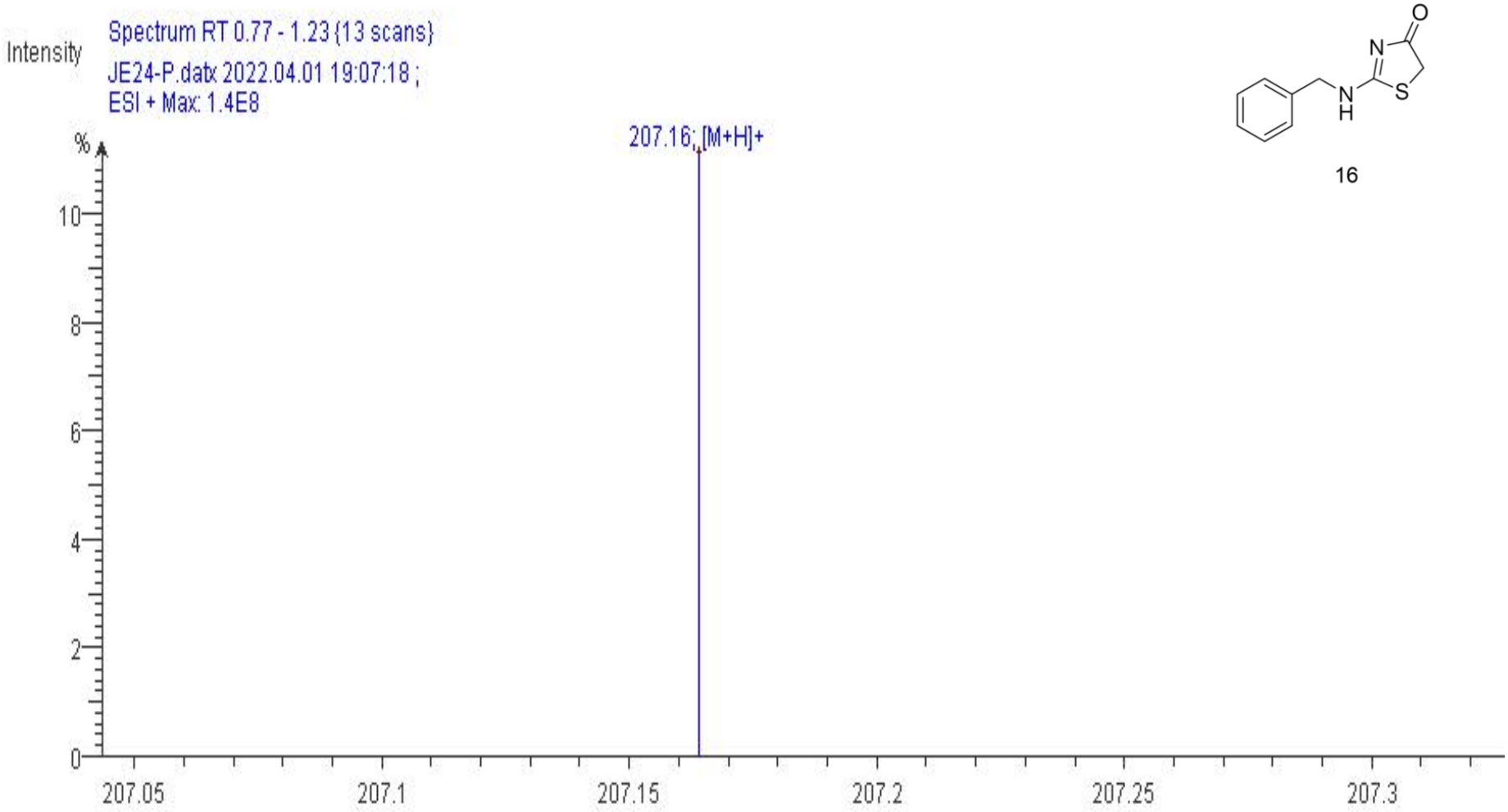


Figure S6. LRMS (ESI+) spectrum of compound **16**

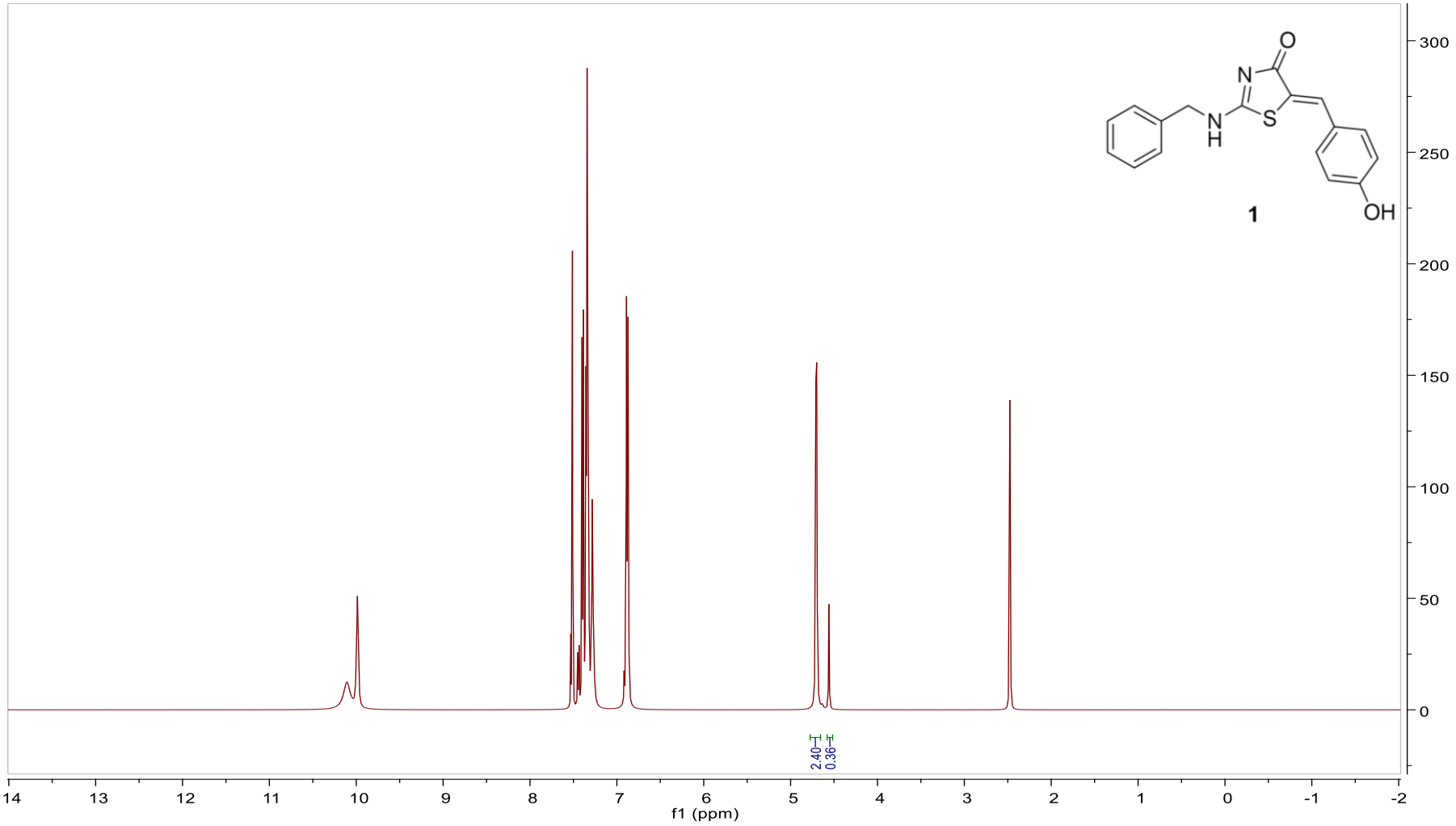


Figure S7. ^{1}H NMR spectrum of compound **1**

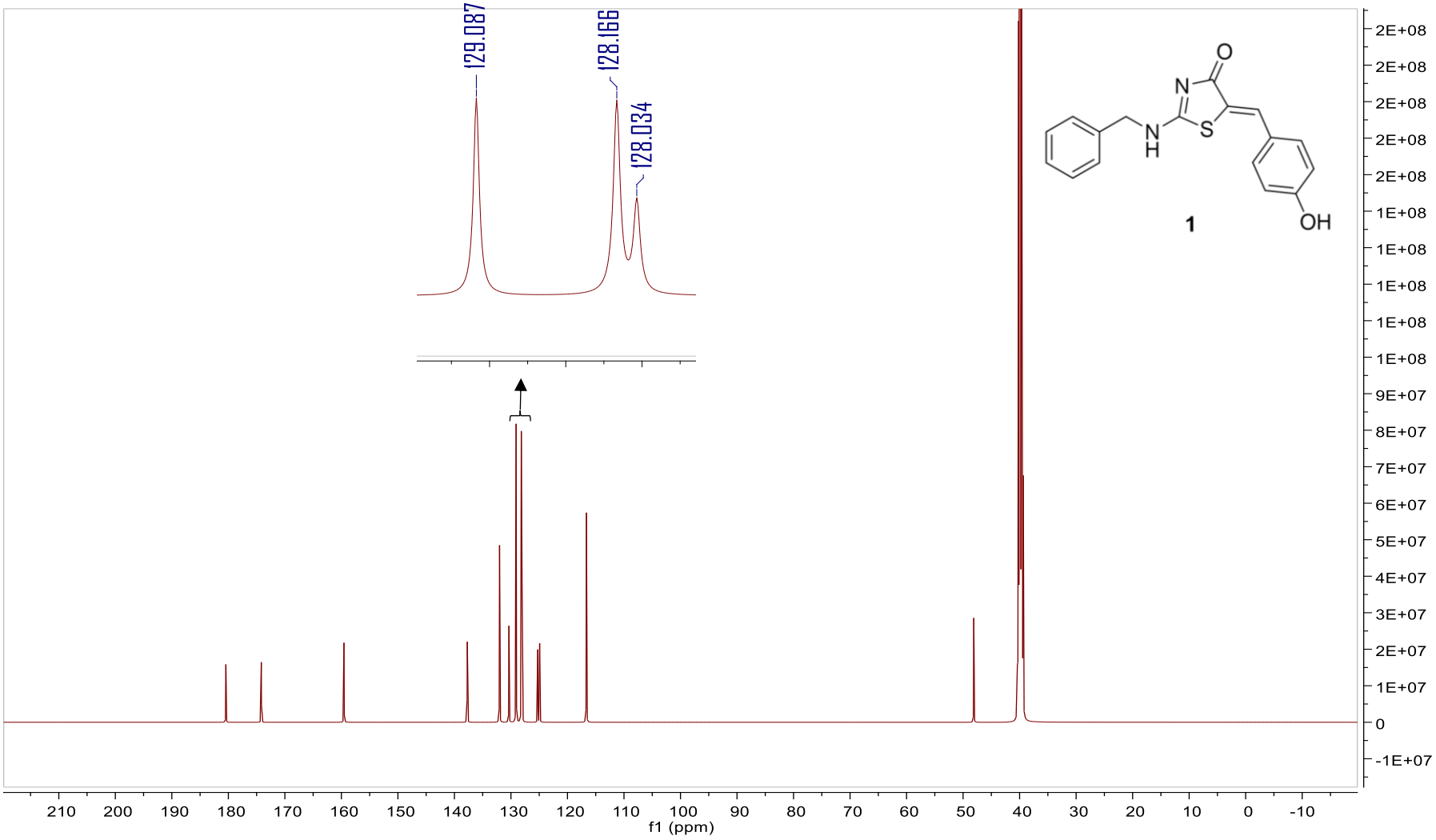


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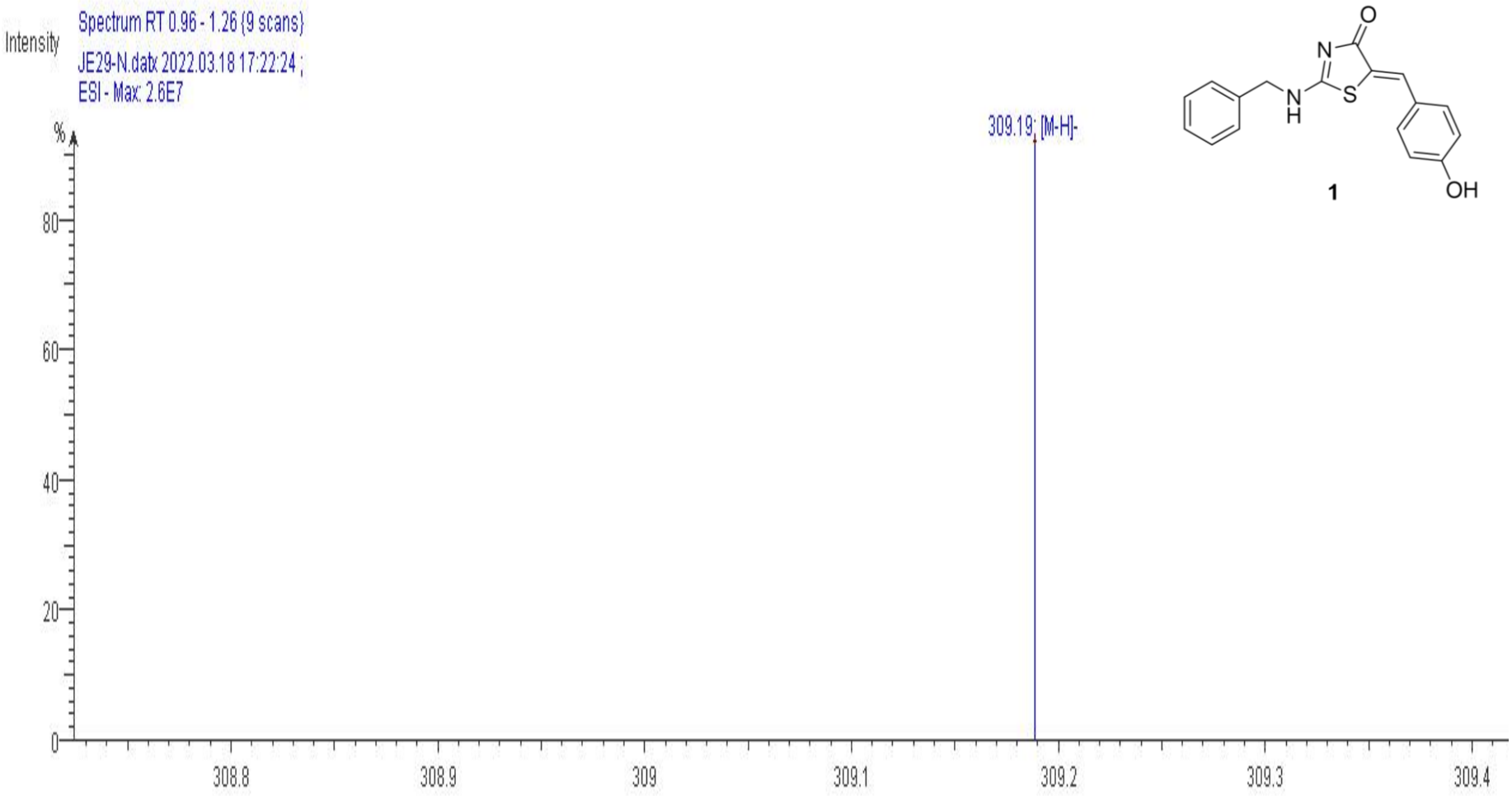


Figure S9. LRMS (ESI–) spectrum of compound **1**

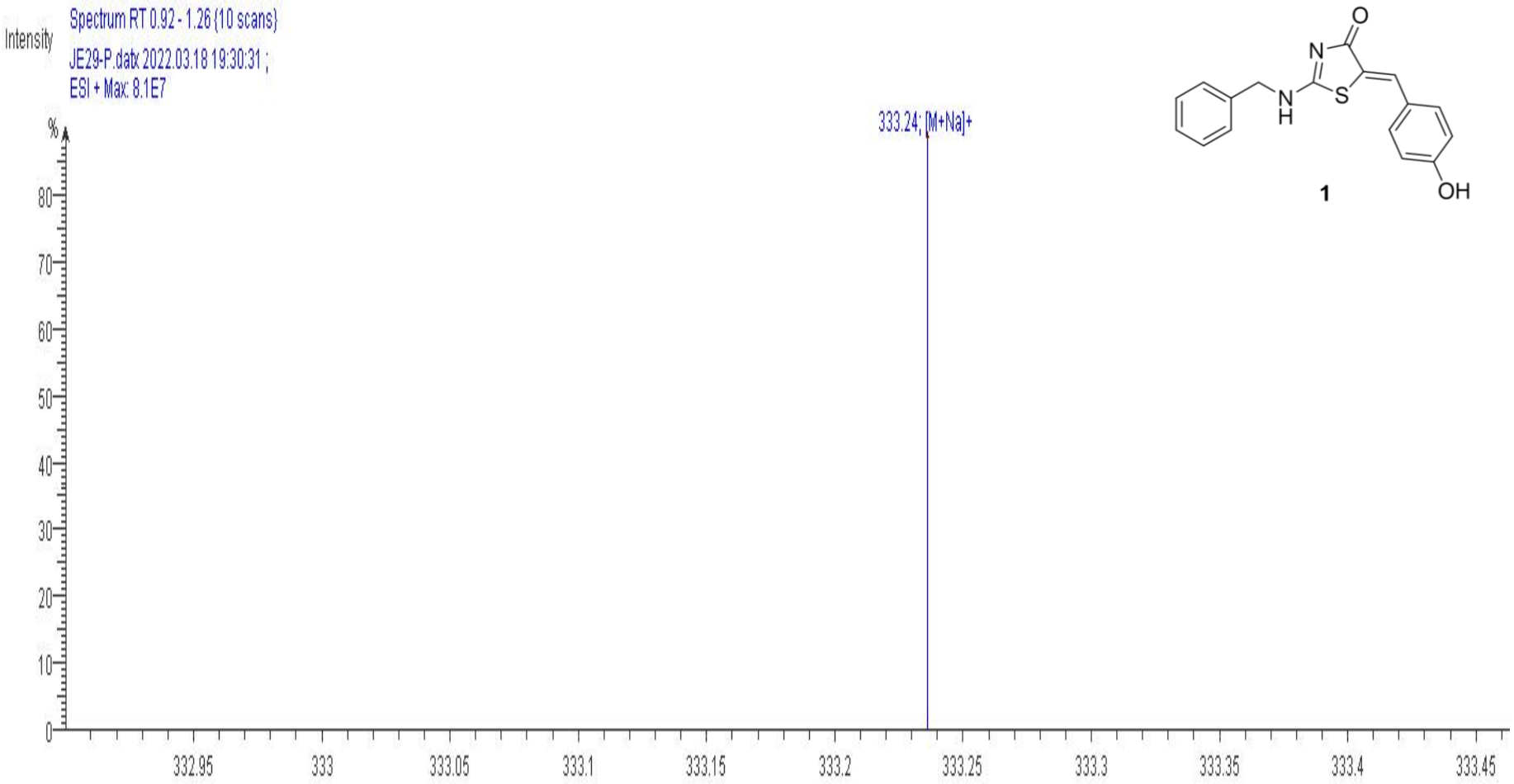


Figure S10. LRMS (ESI+) spectrum of compound **1**

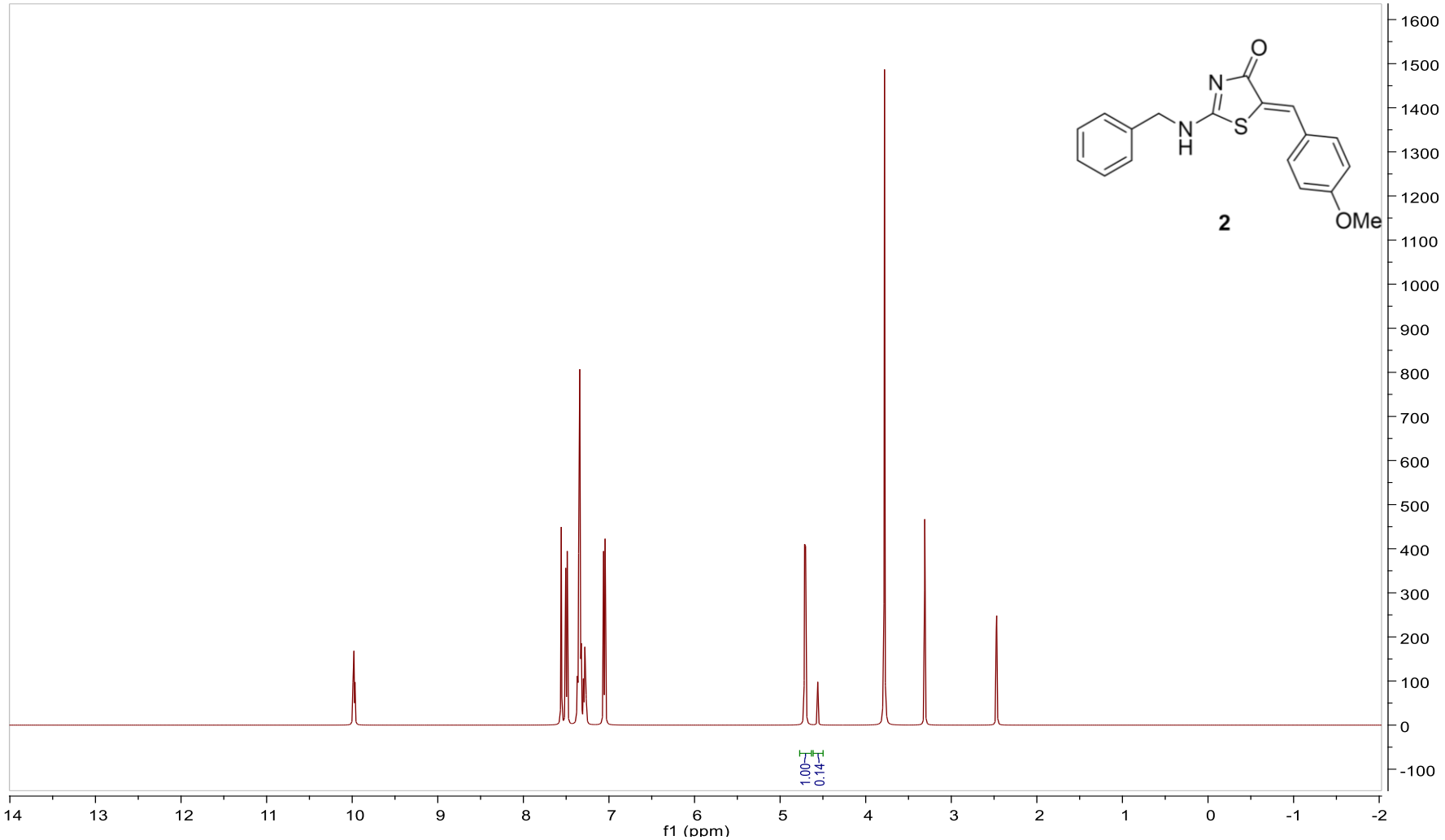


Figure S11. ^{1}H NMR spectrum of compound **2**

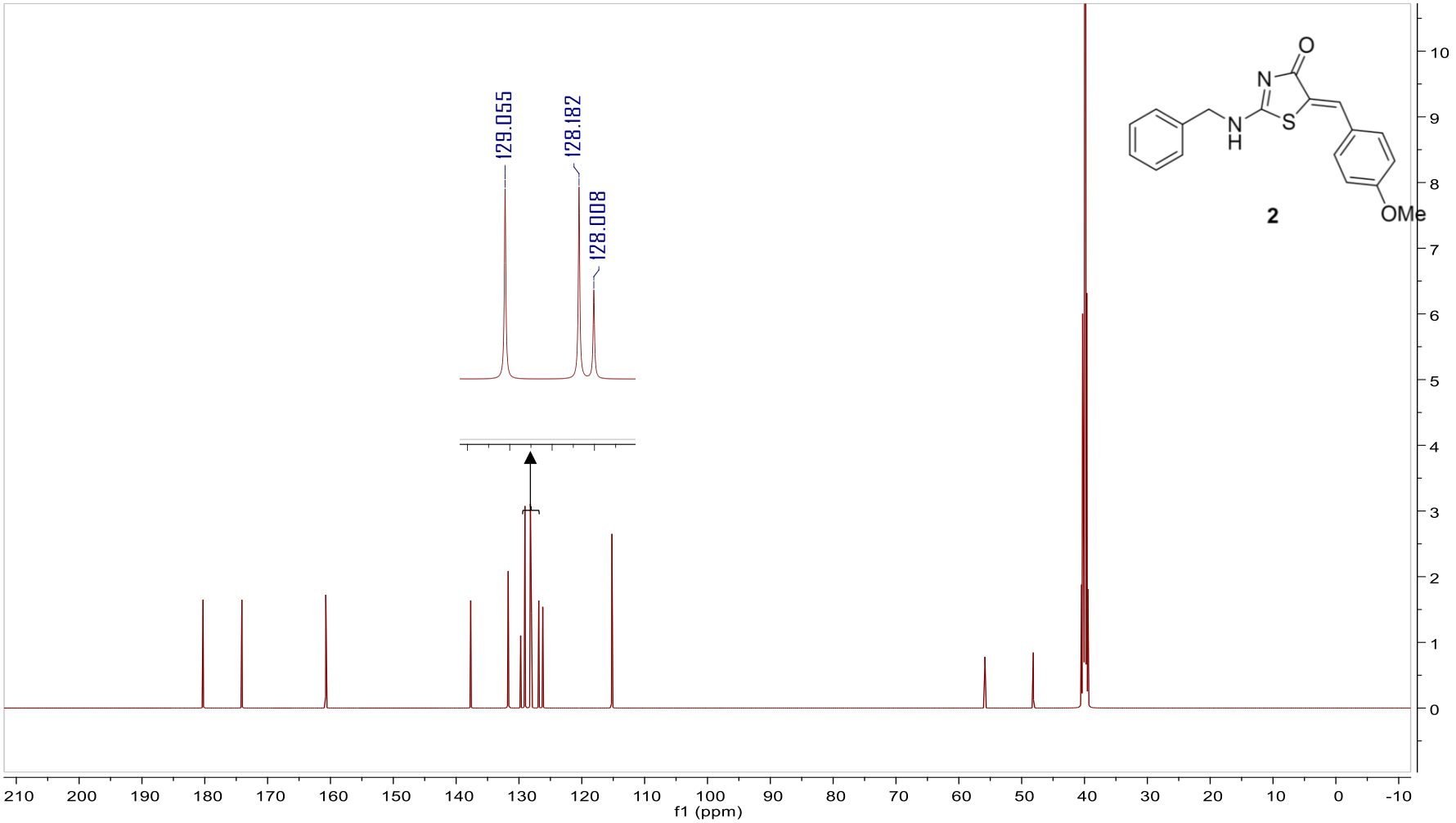


Figure S12. ^{13}C NMR spectrum of compound **2**

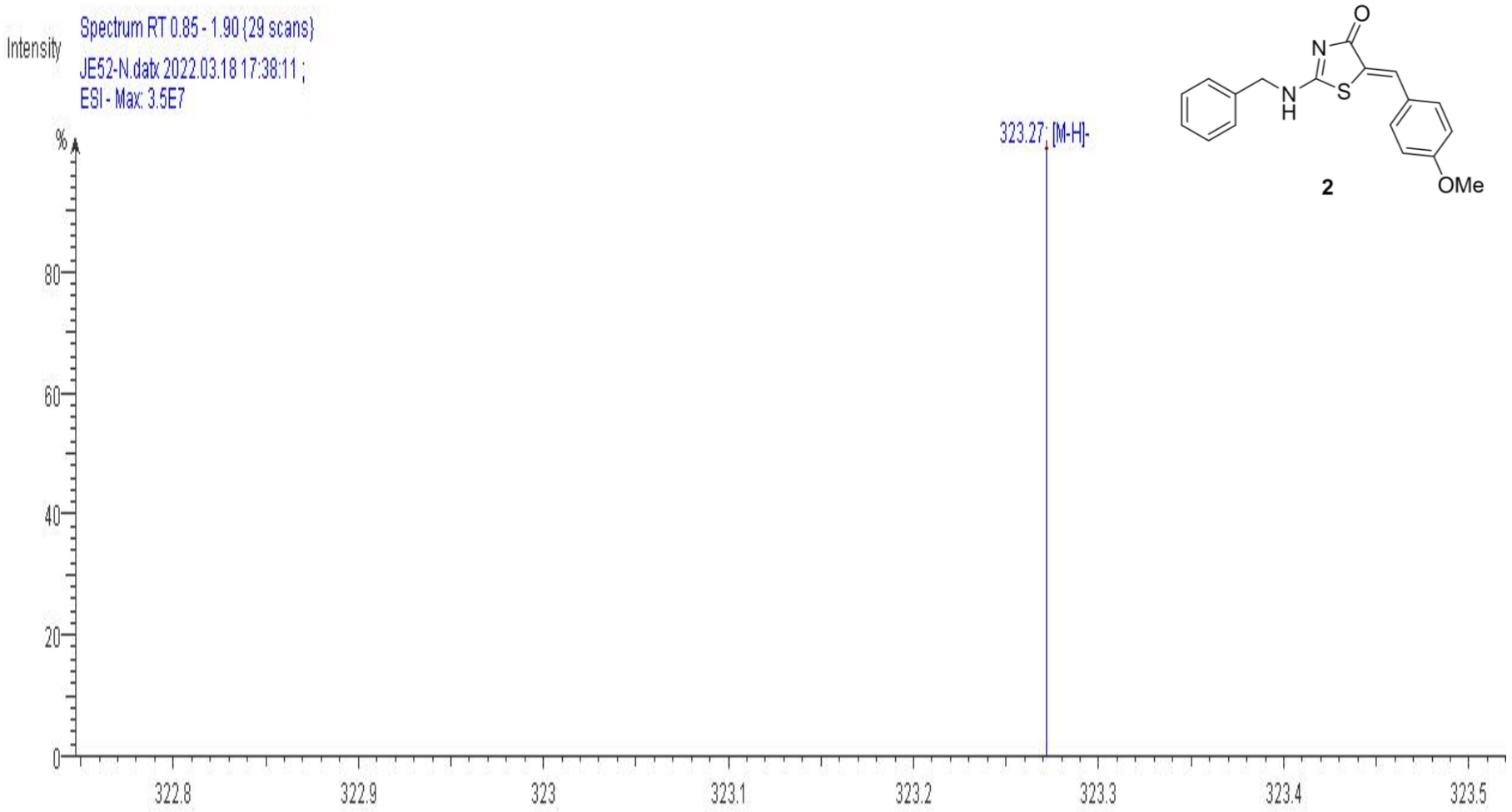


Figure S13. LRMS (ESI–) spectrum of compound **2**

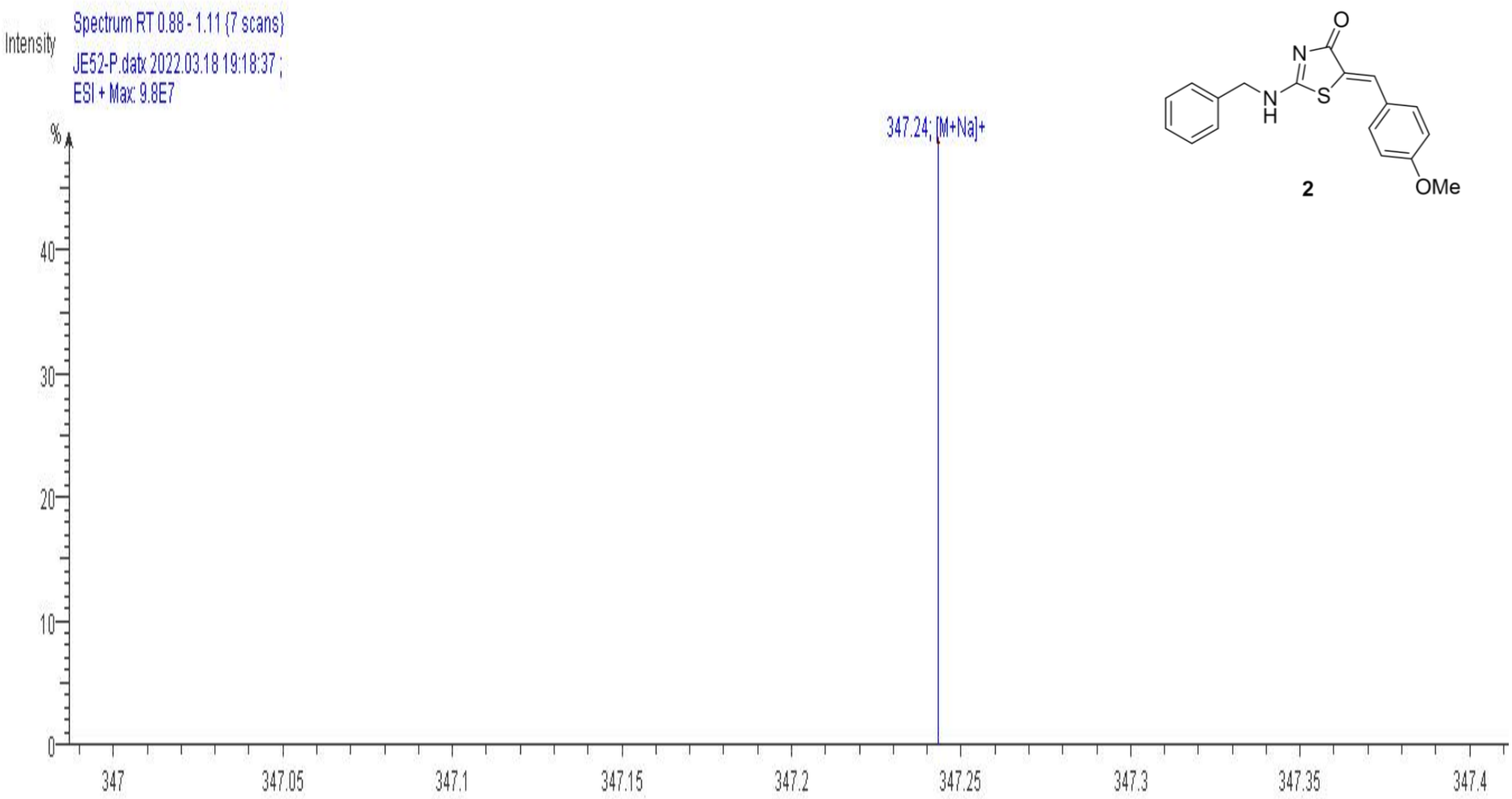


Figure S14. LRMS (ESI+) spectrum of compound **2**

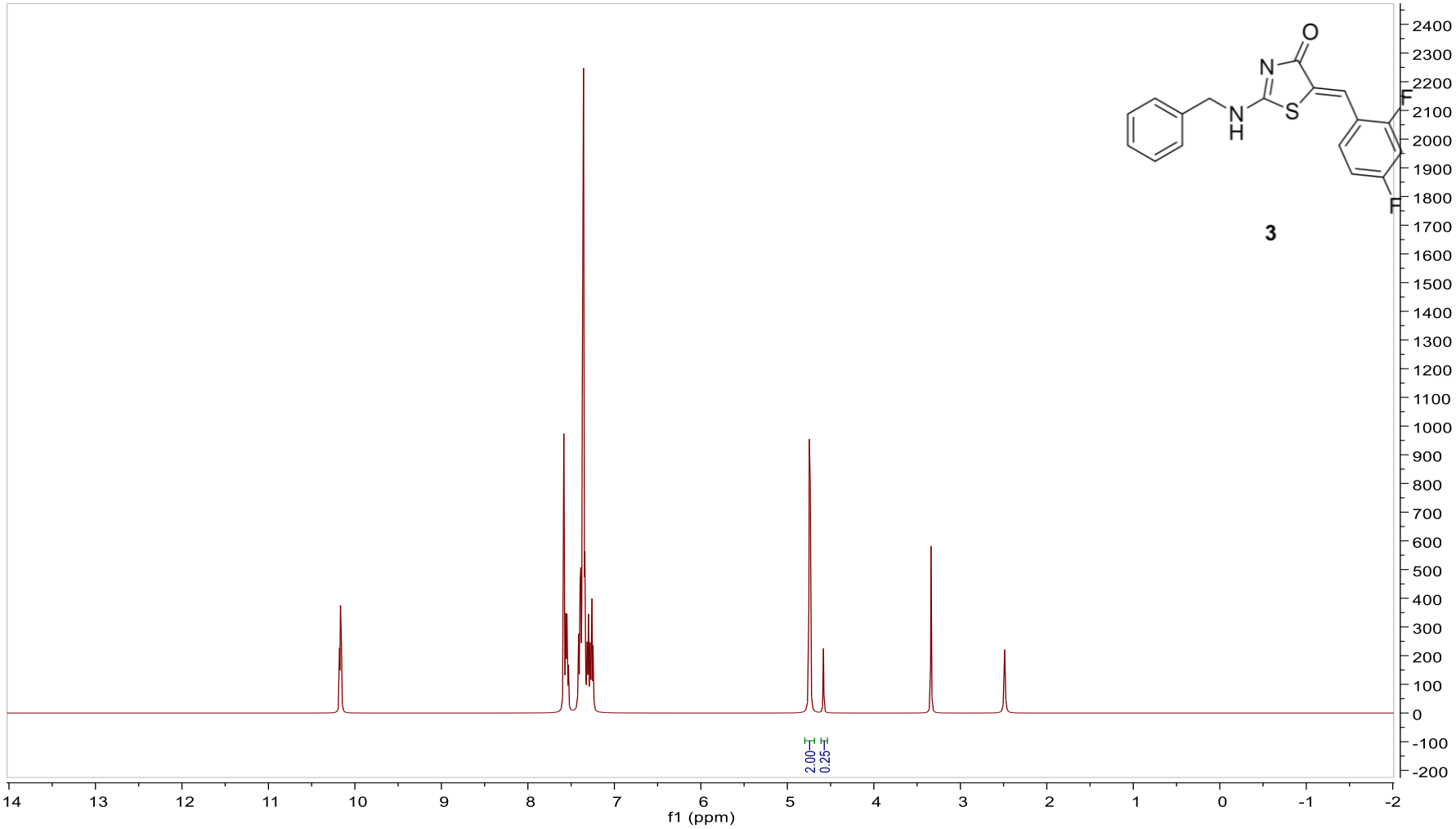


Figure S15. ^{1}H NMR spectrum of compound **3**

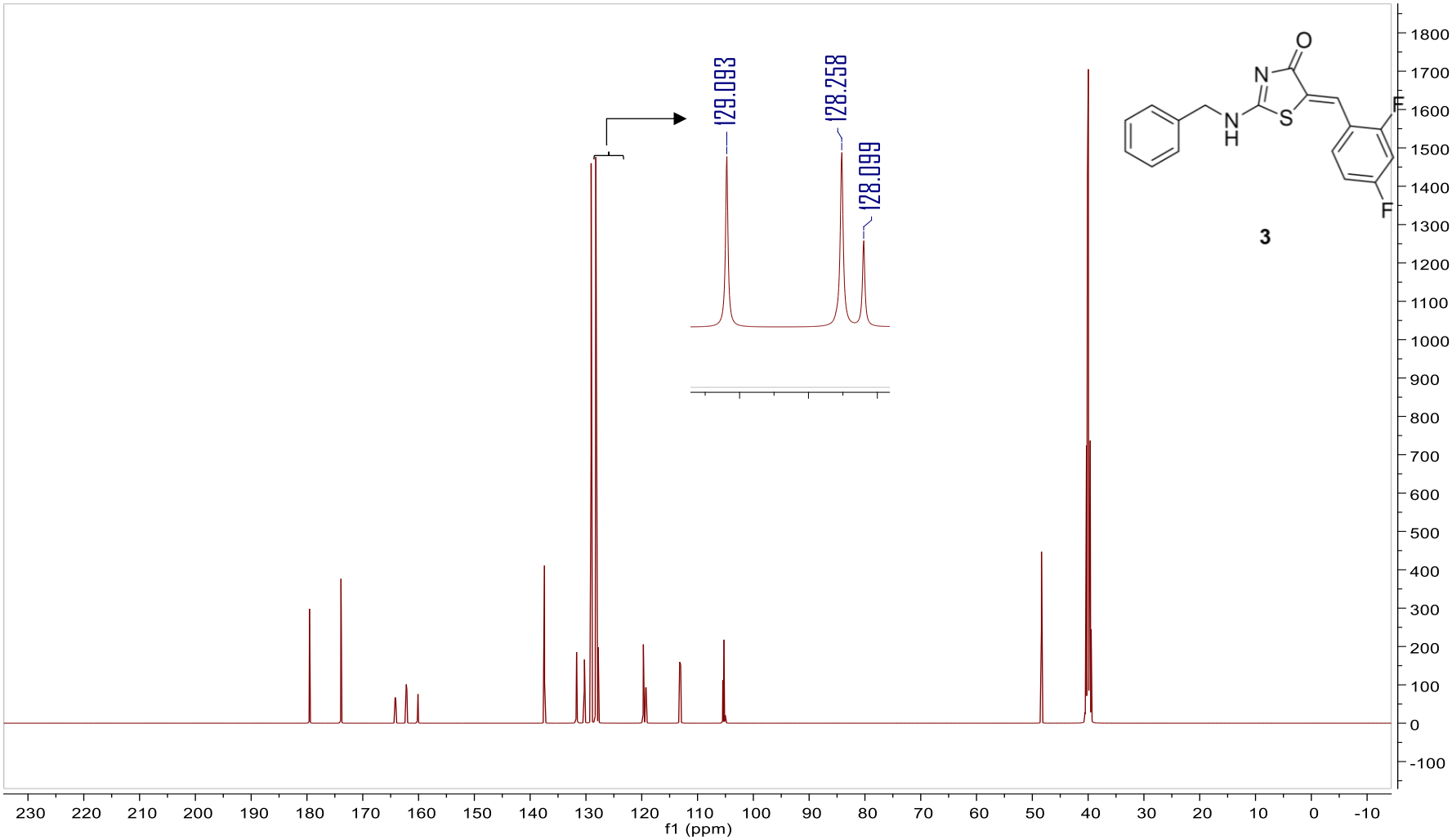


Figure S16. ^{13}C NMR spectrum of compound **3**

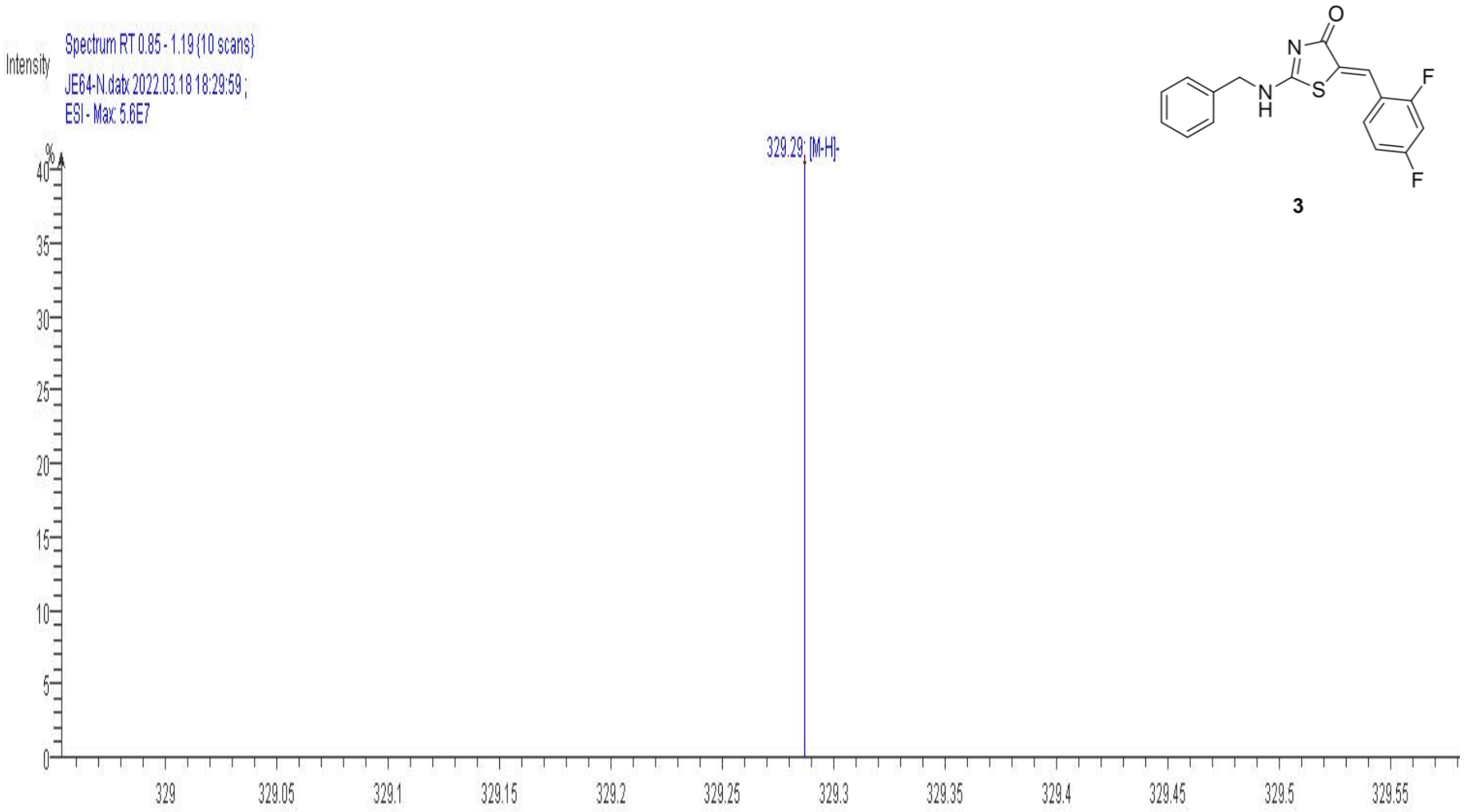


Figure S17. LRMS (ESI–) spectrum of compound **3**

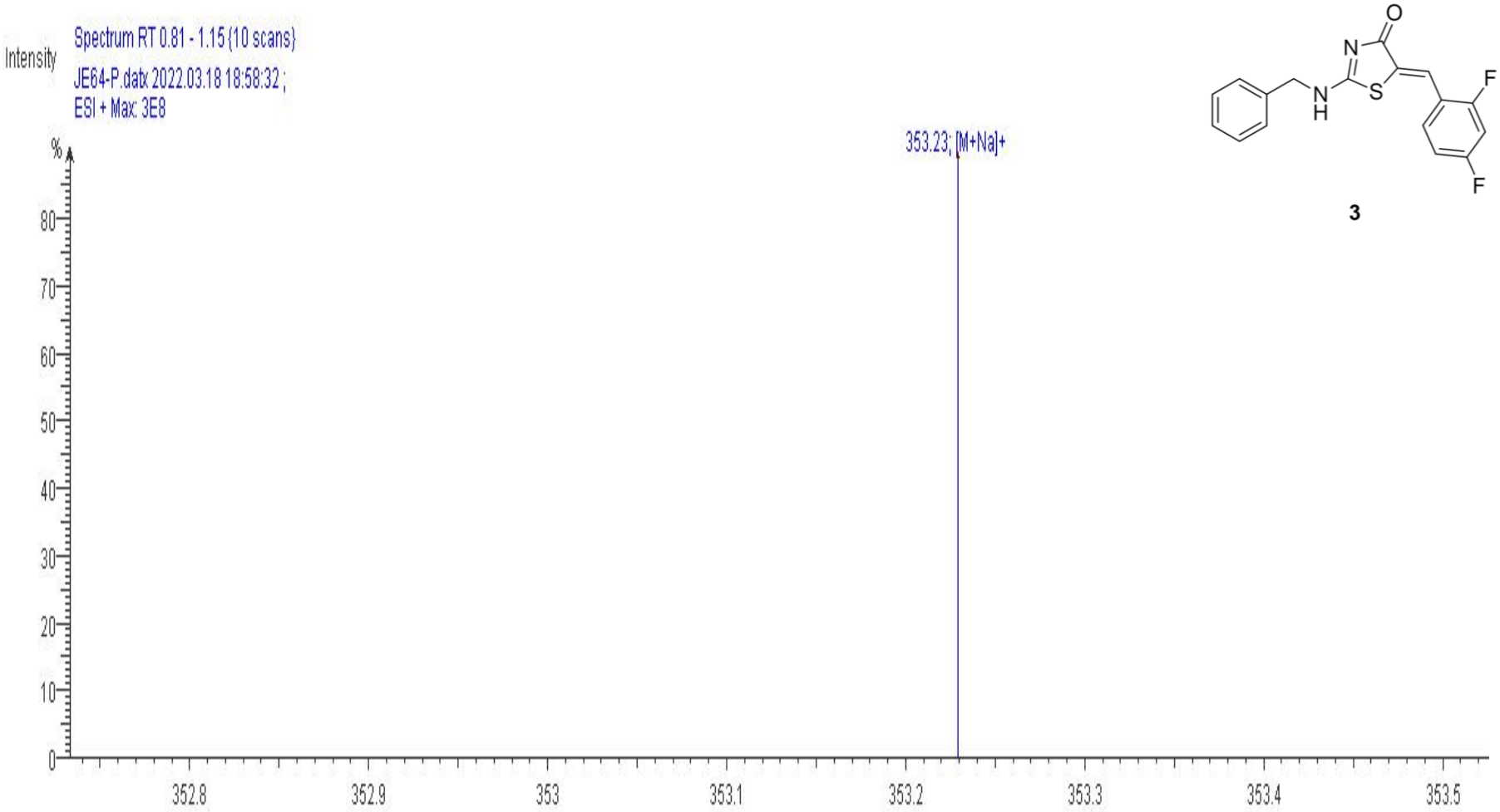


Figure S18. LRMS (ESI+) spectrum of compound **3**

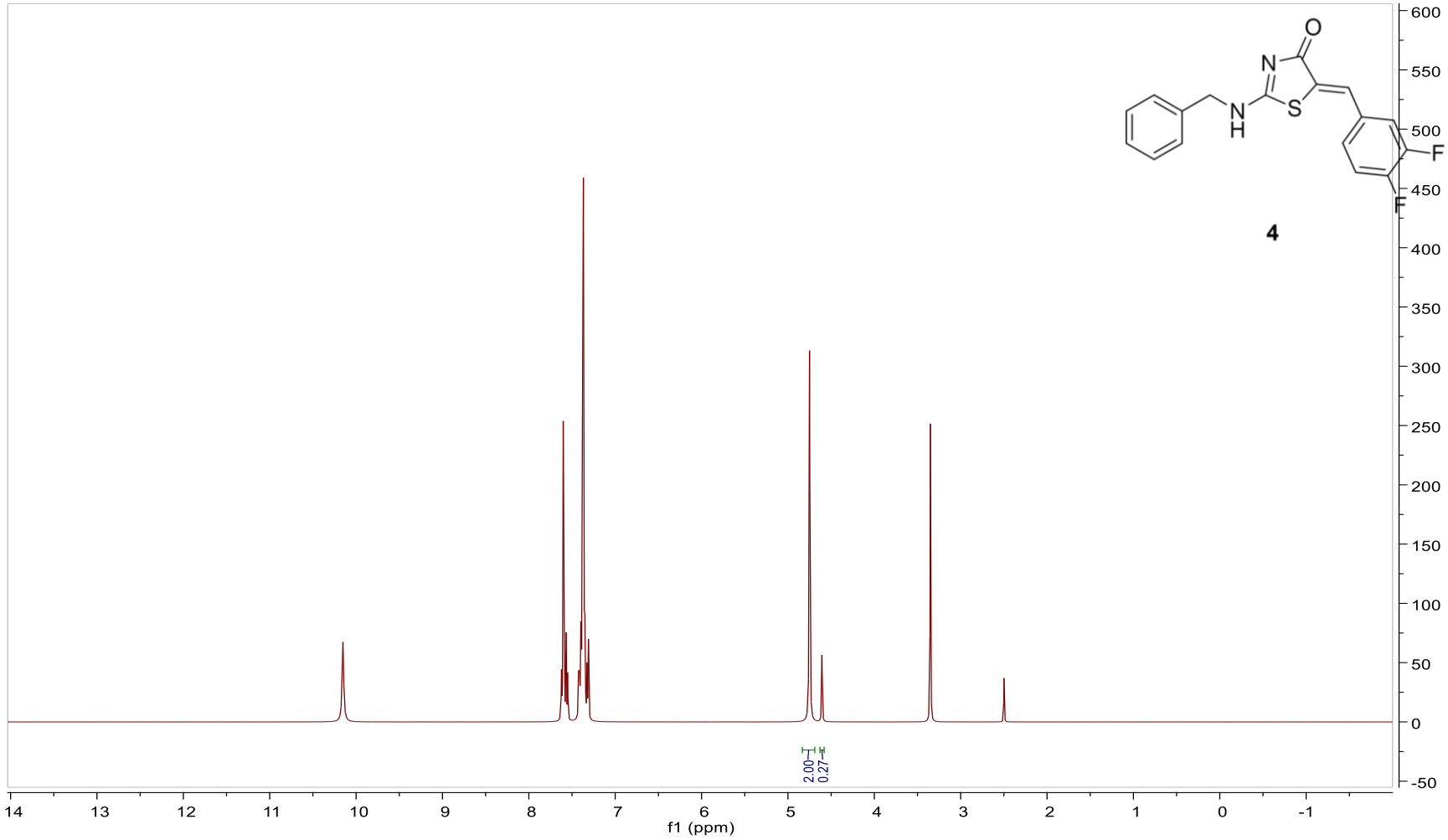


Figure S19. ^{1}H NMR spectrum of compound **4**

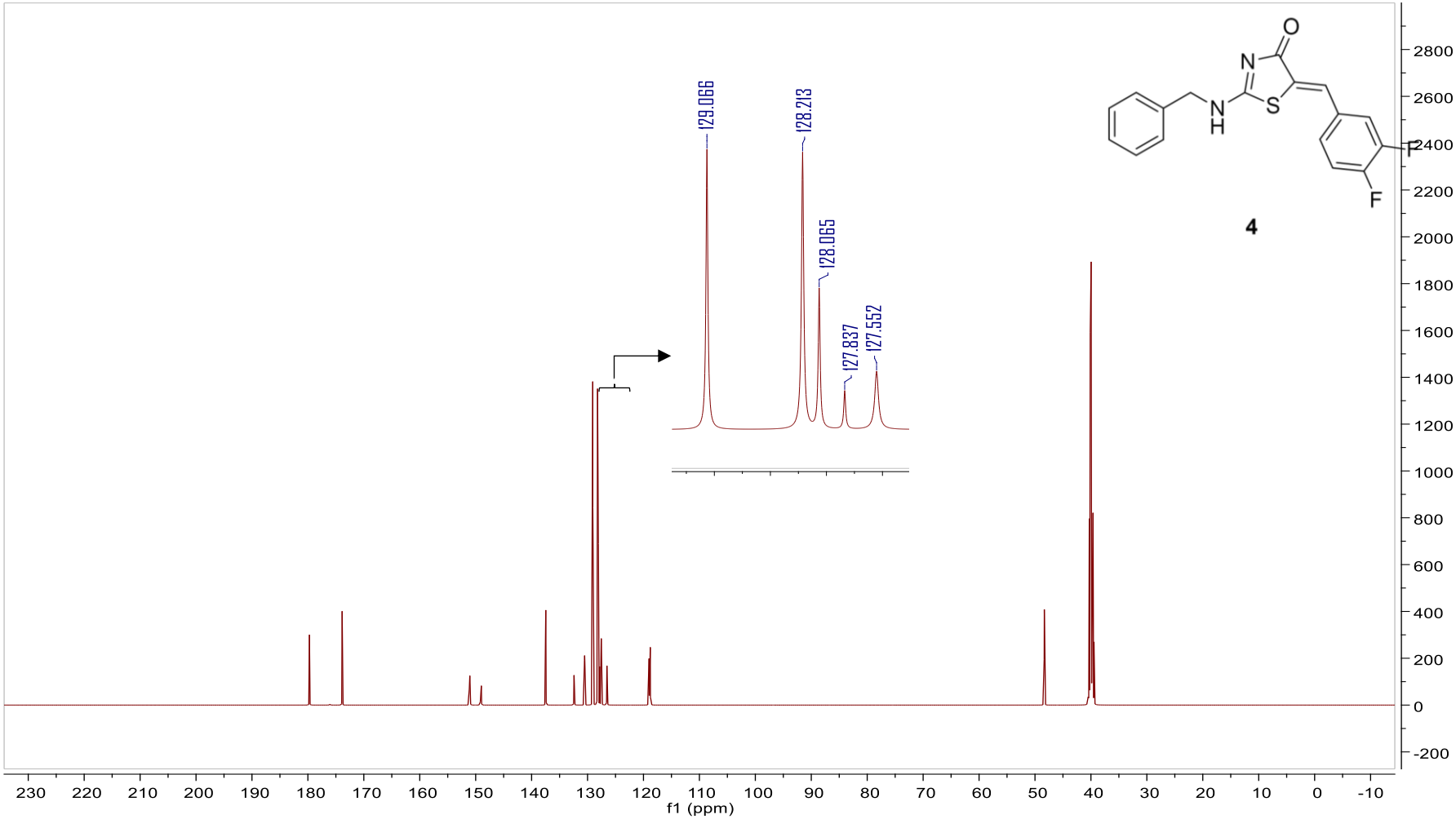


Figure S20. ^{13}C NMR spectrum of compound **4**

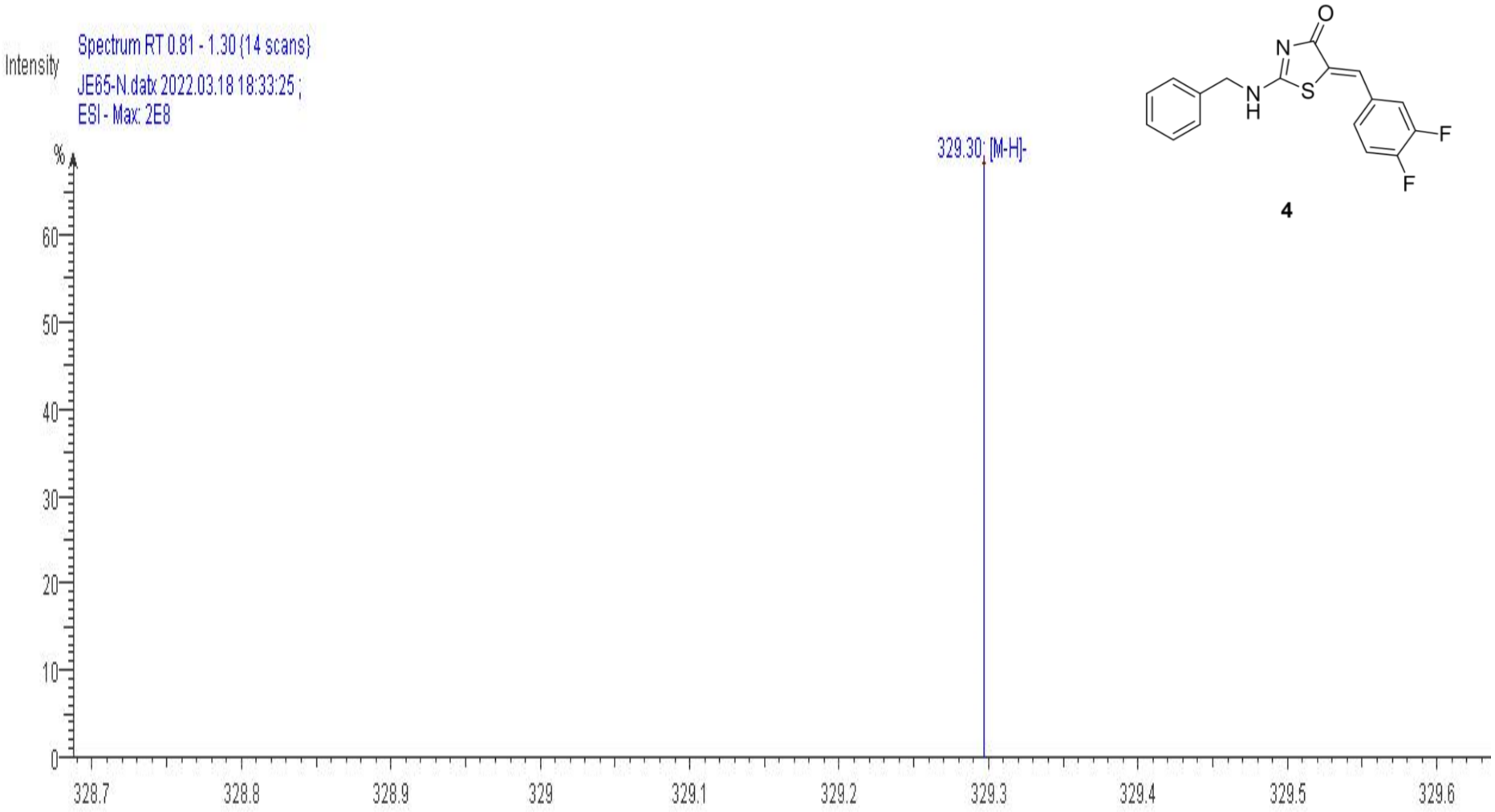


Figure S21. LRMS (ESI–) spectrum of compound **4**

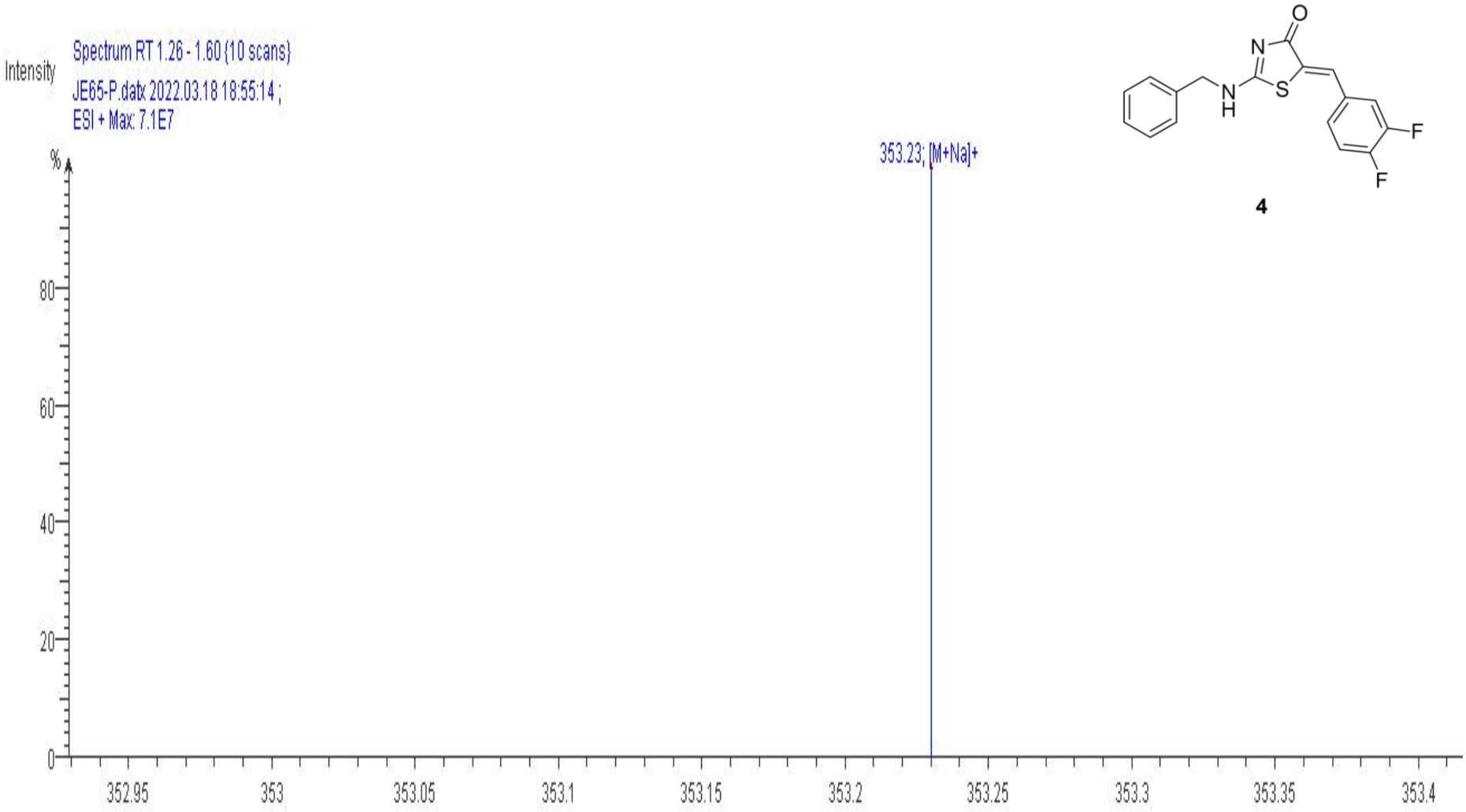


Figure S22. LRMS (ESI+) spectrum of compound **4**

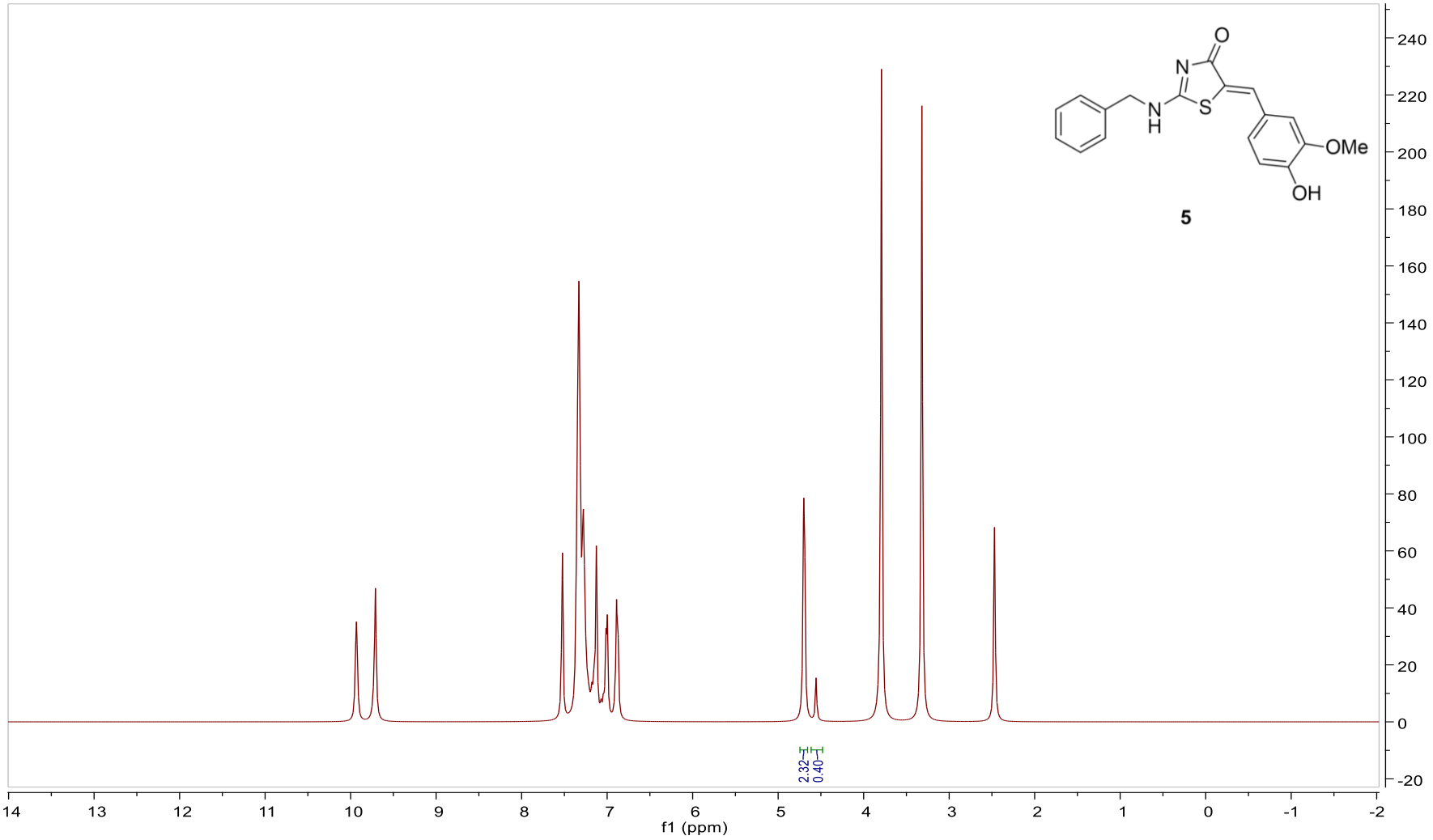


Figure S23. ^{1}H NMR spectrum of compound **5**

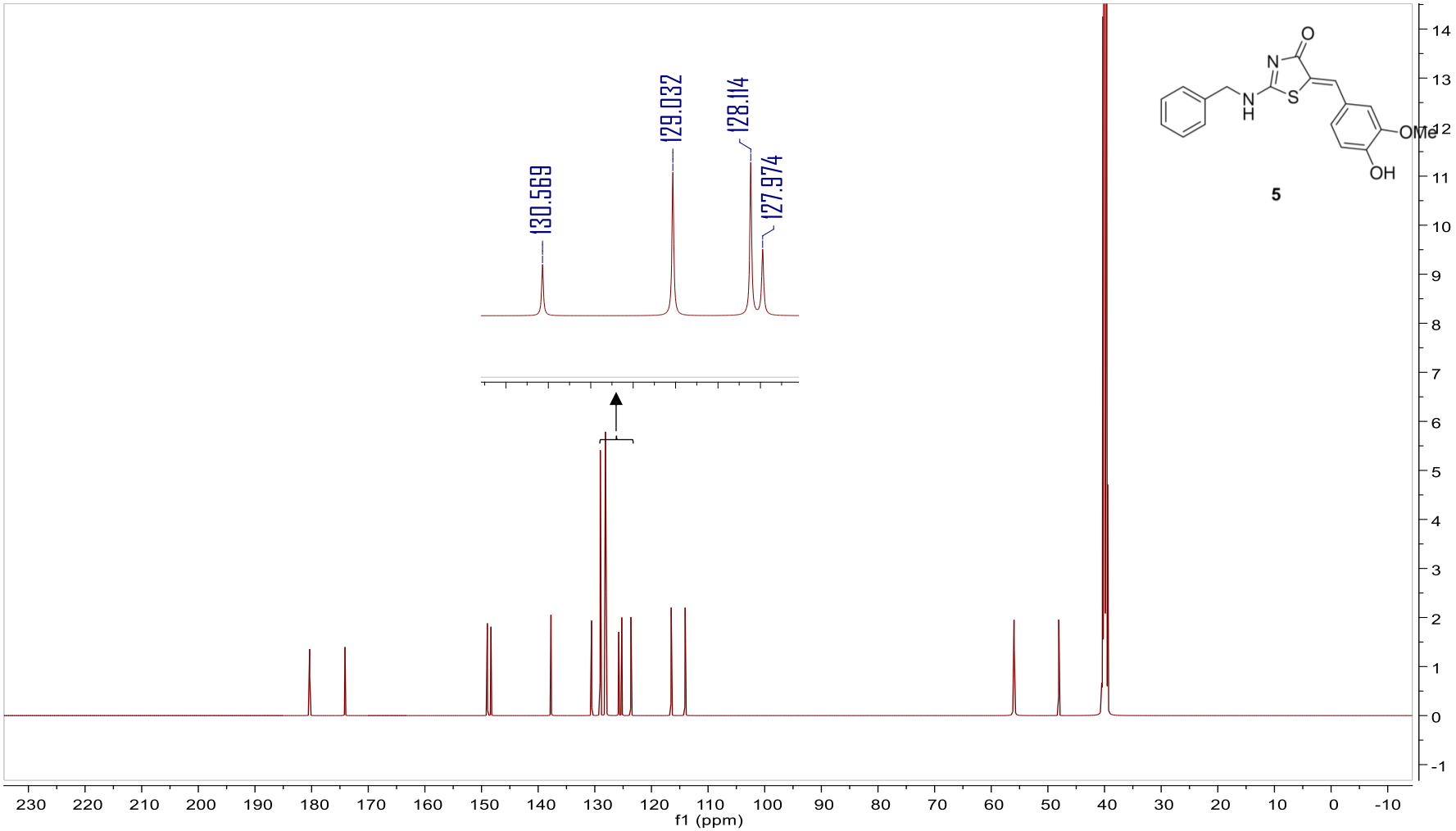


Figure S24. ^{13}C NMR spectrum of compound **5**

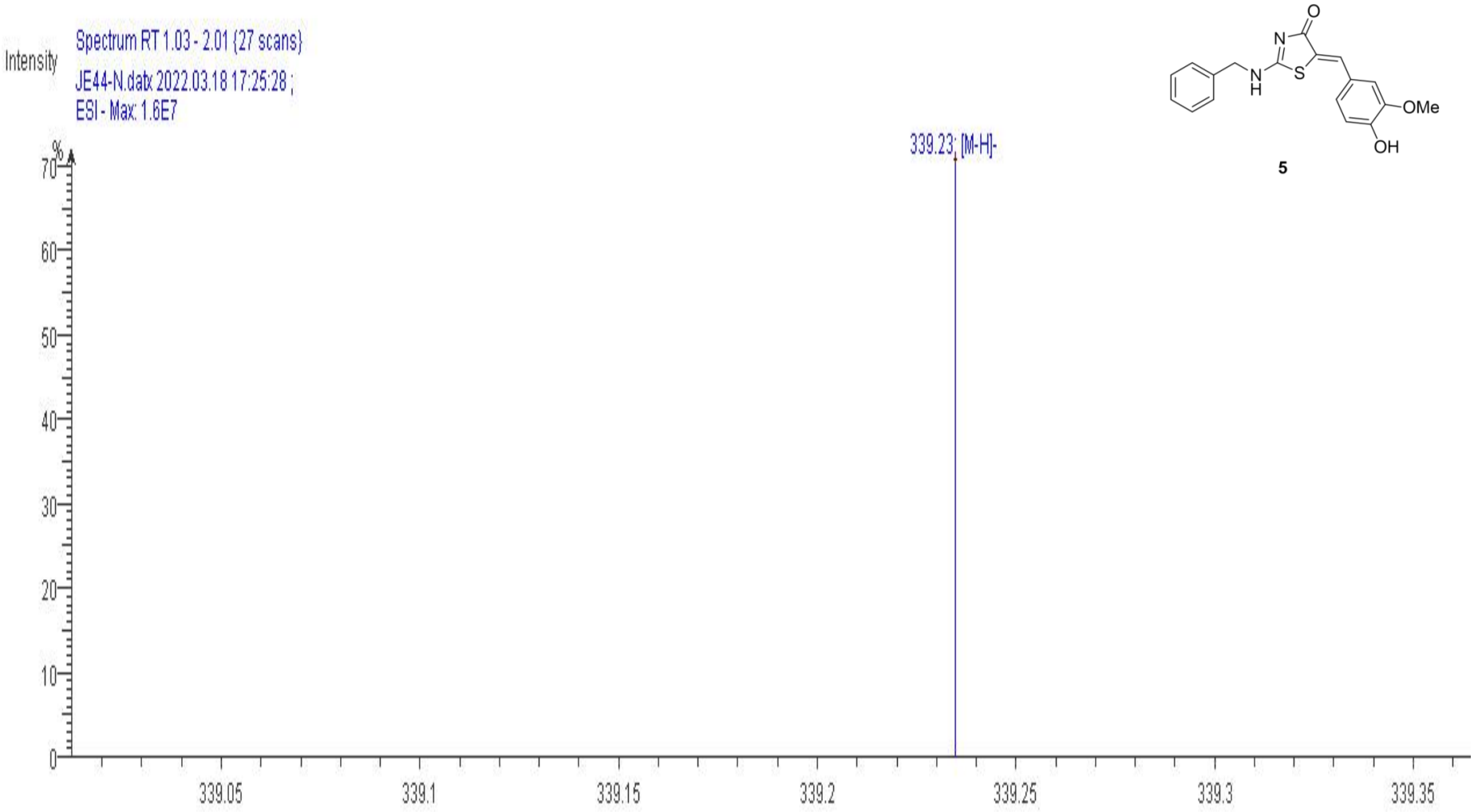


Figure S25. LRMS (ESI–) spectrum of compound **5**

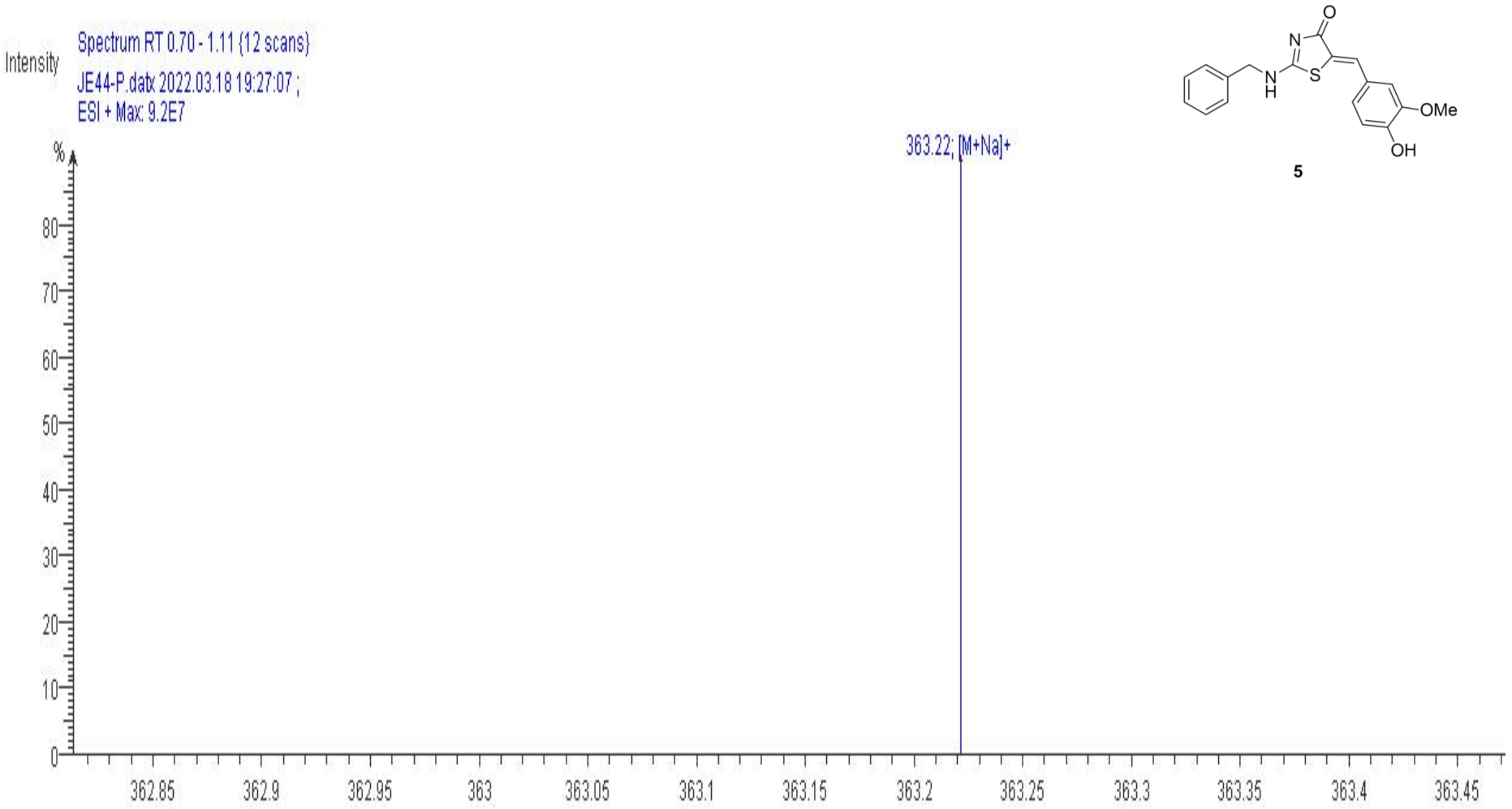


Figure S26. LRMS (ESI+) spectrum of compound **5**

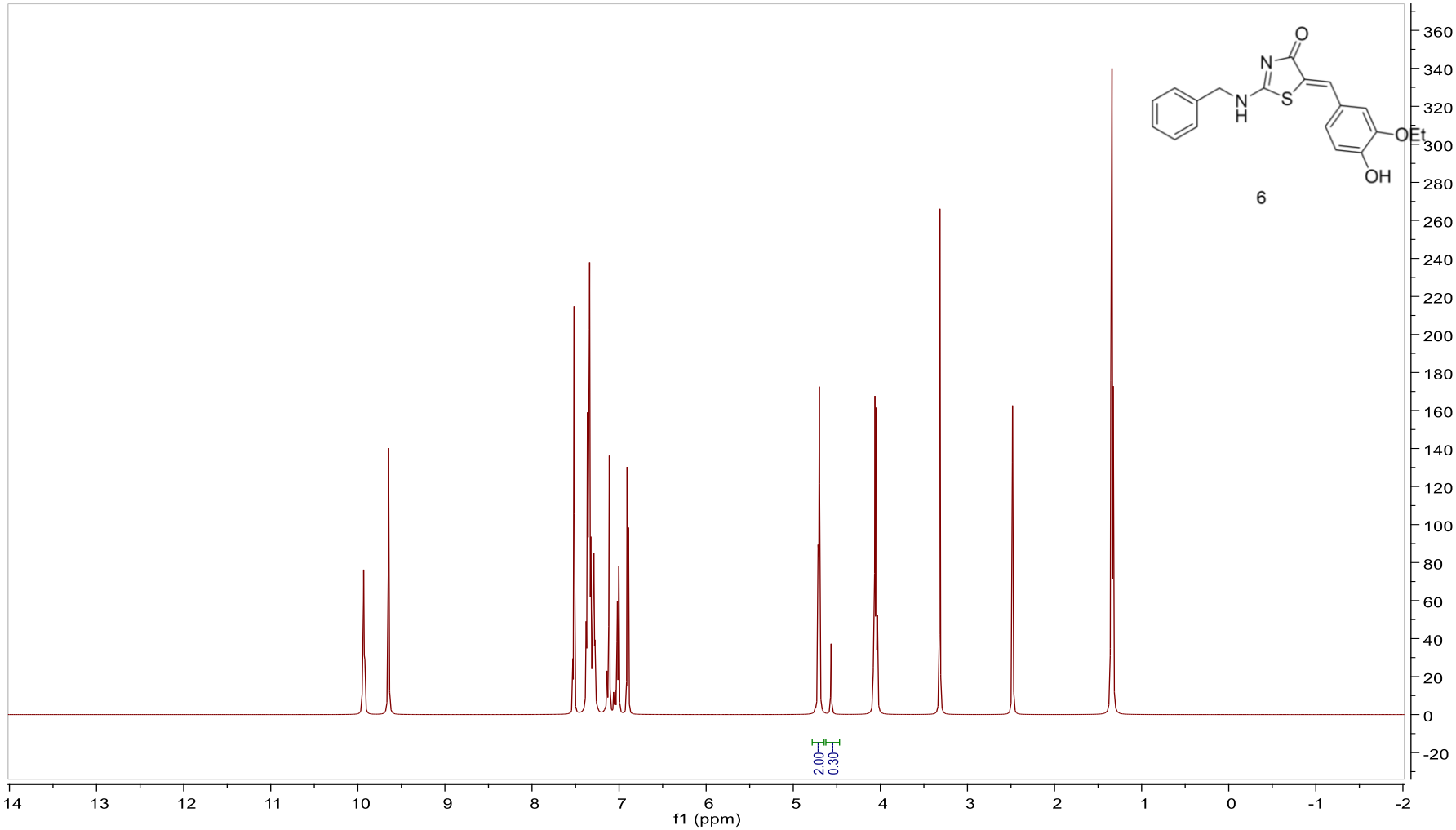


Figure S27. ^{1}H NMR spectrum of compound **6**

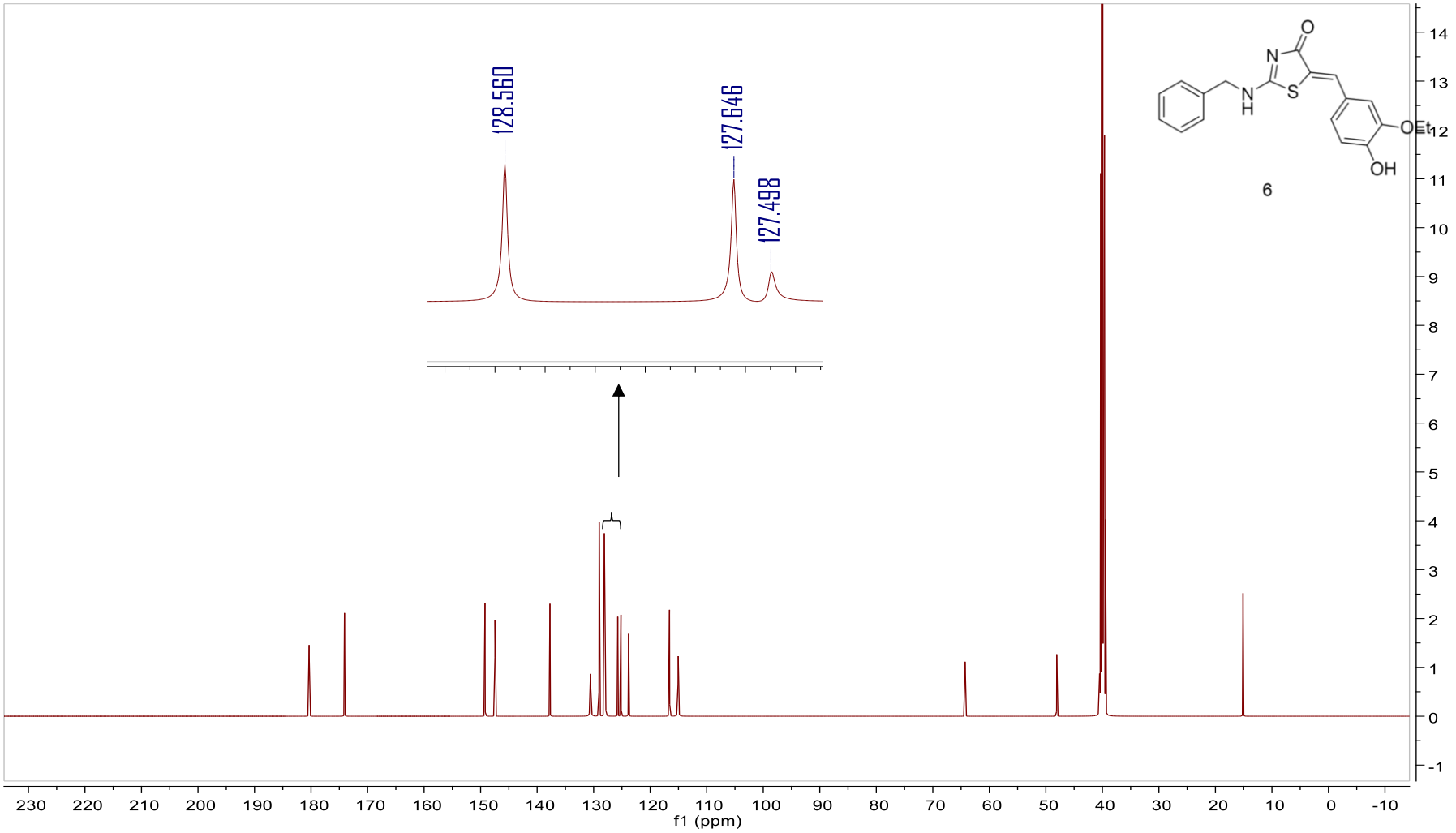


Figure S28. ^{13}C NMR spectrum of compound **6**

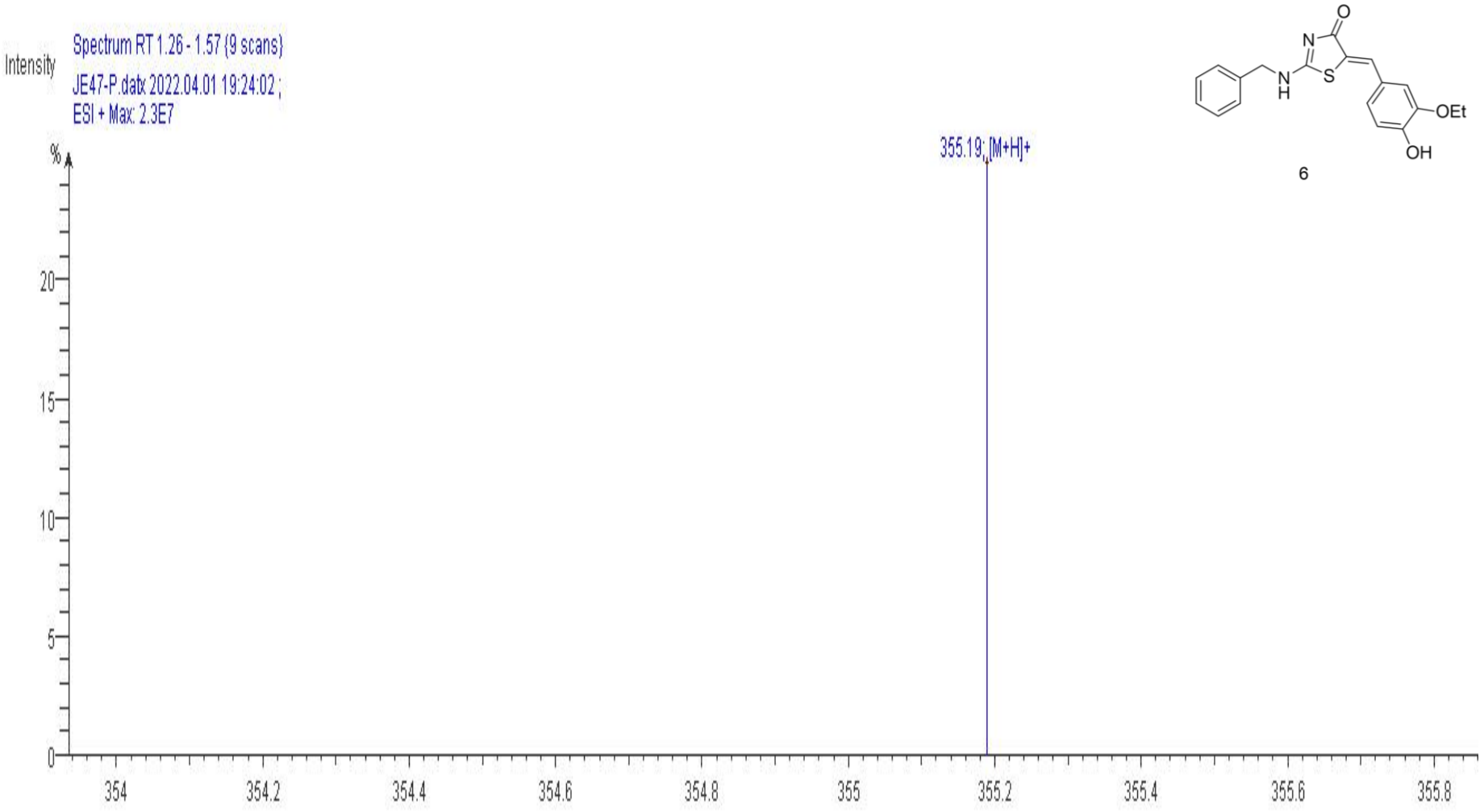


Figure S29. LRMS (ESI+) spectrum of compound **6**

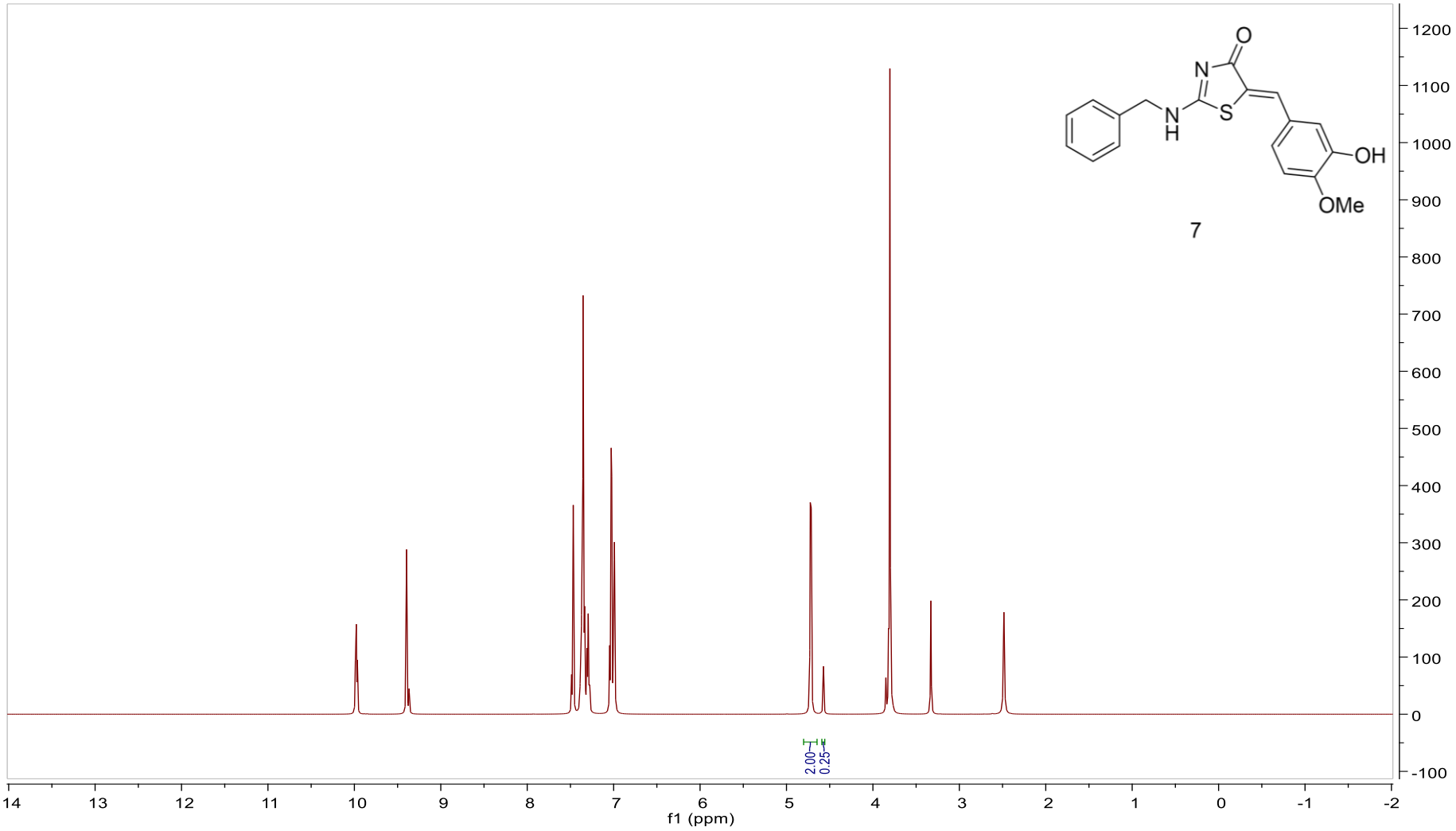


Figure S30. ^{1}H NMR spectrum of compound **7**

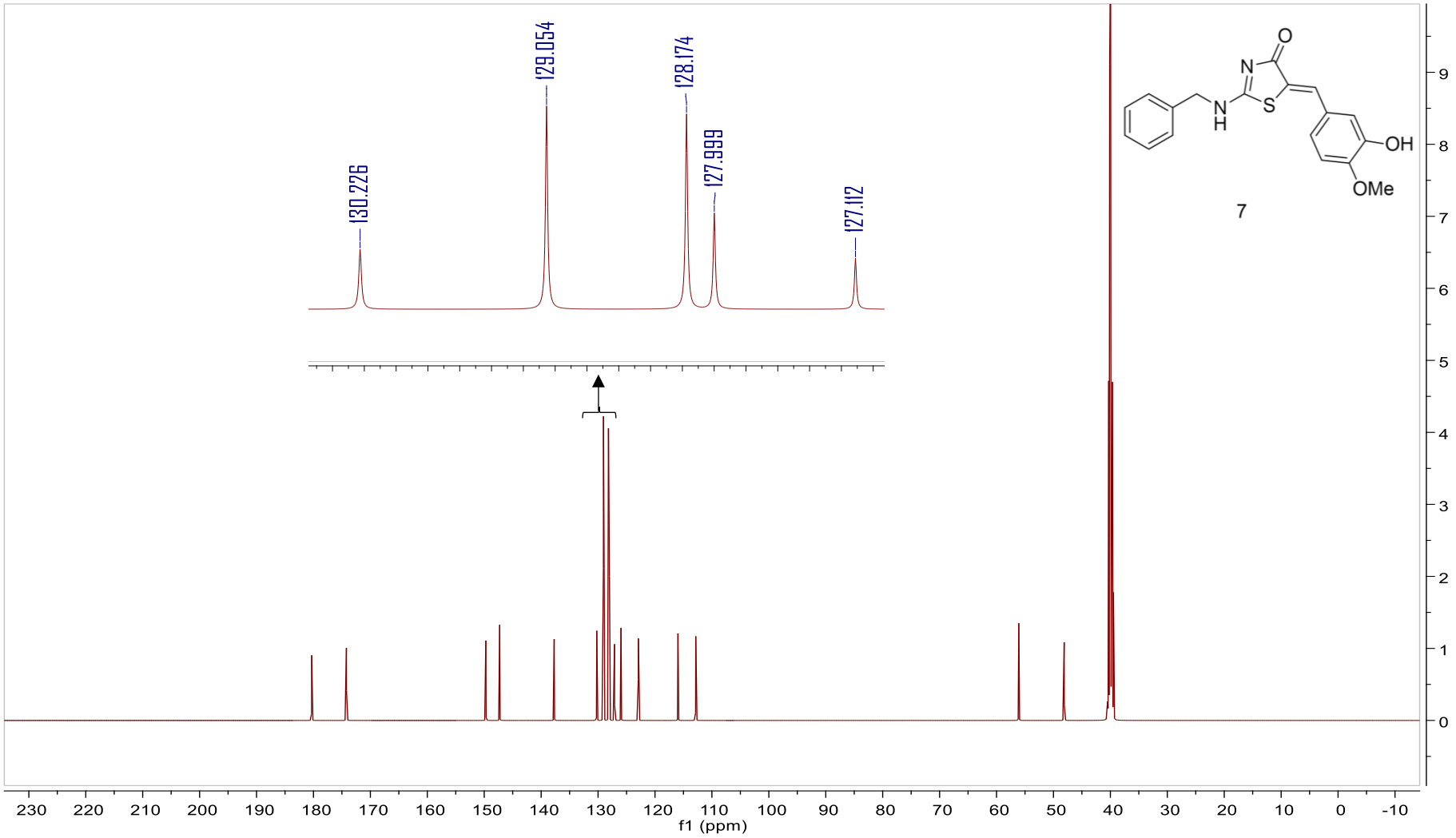


Figure S31. ^{13}C NMR spectrum of compound **7**

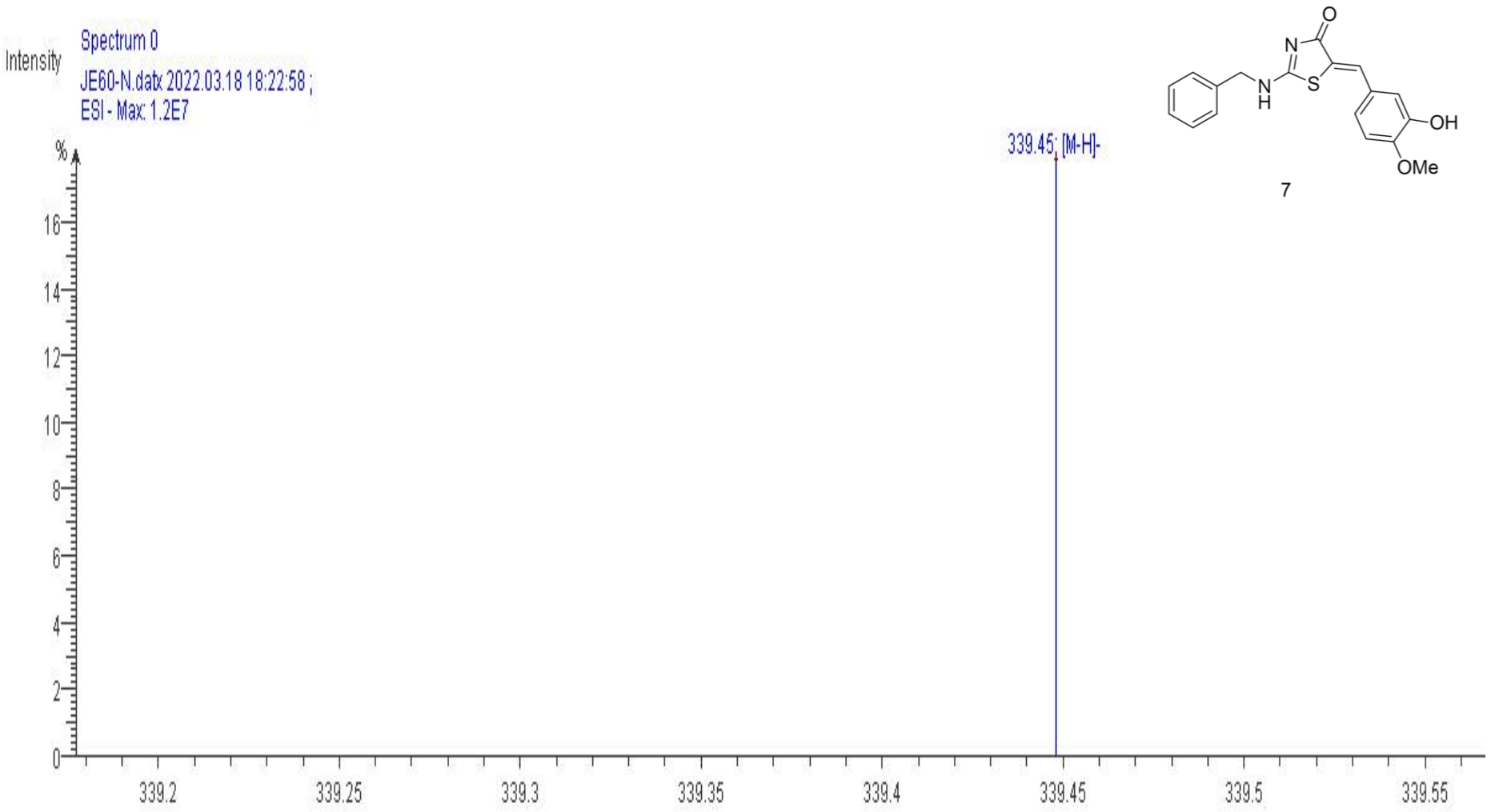


Figure S32. LRMS (ESI–) spectrum of compound **7**

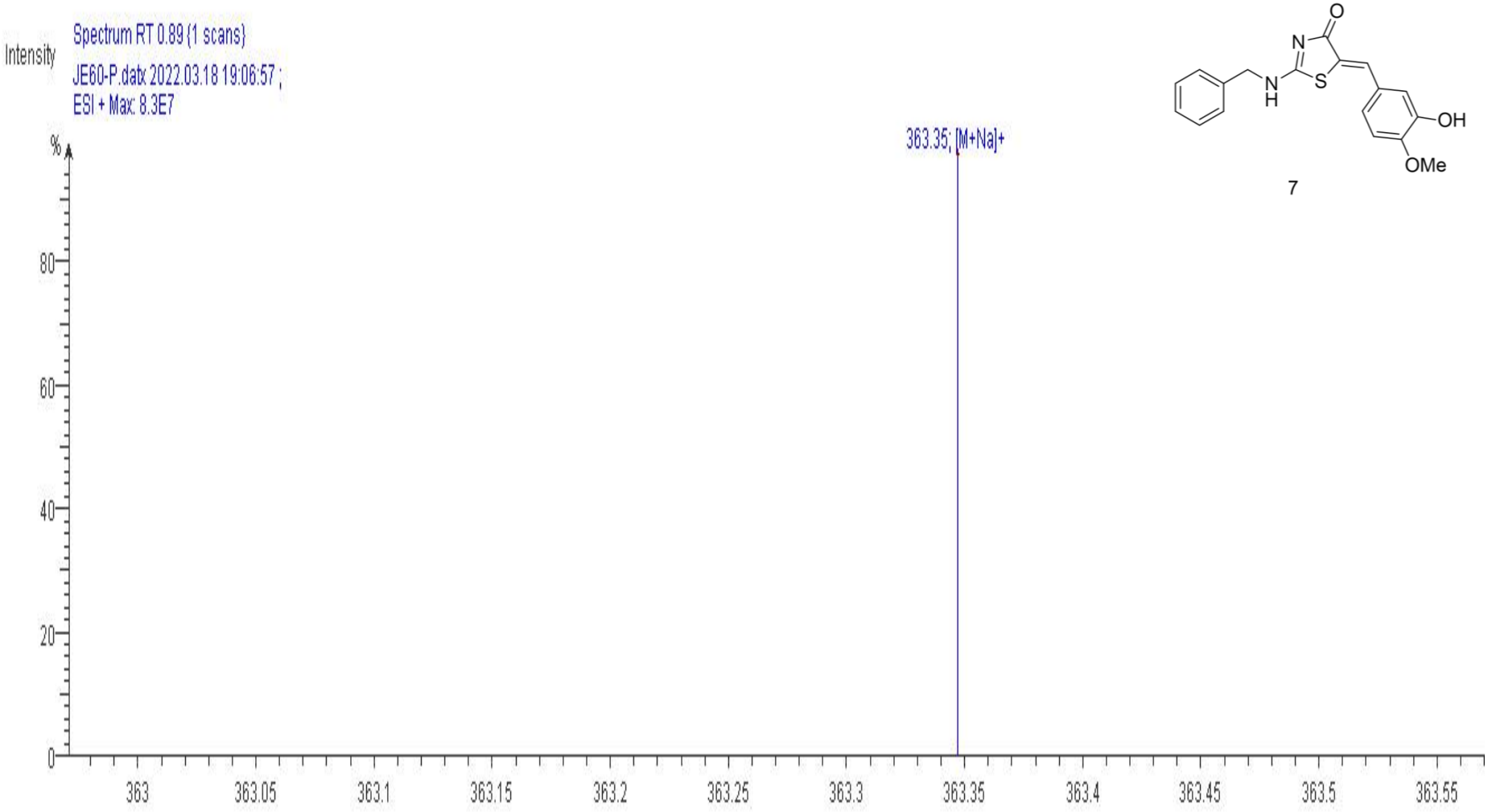


Figure S33. LRMS (ESI+) spectrum of compound **7**

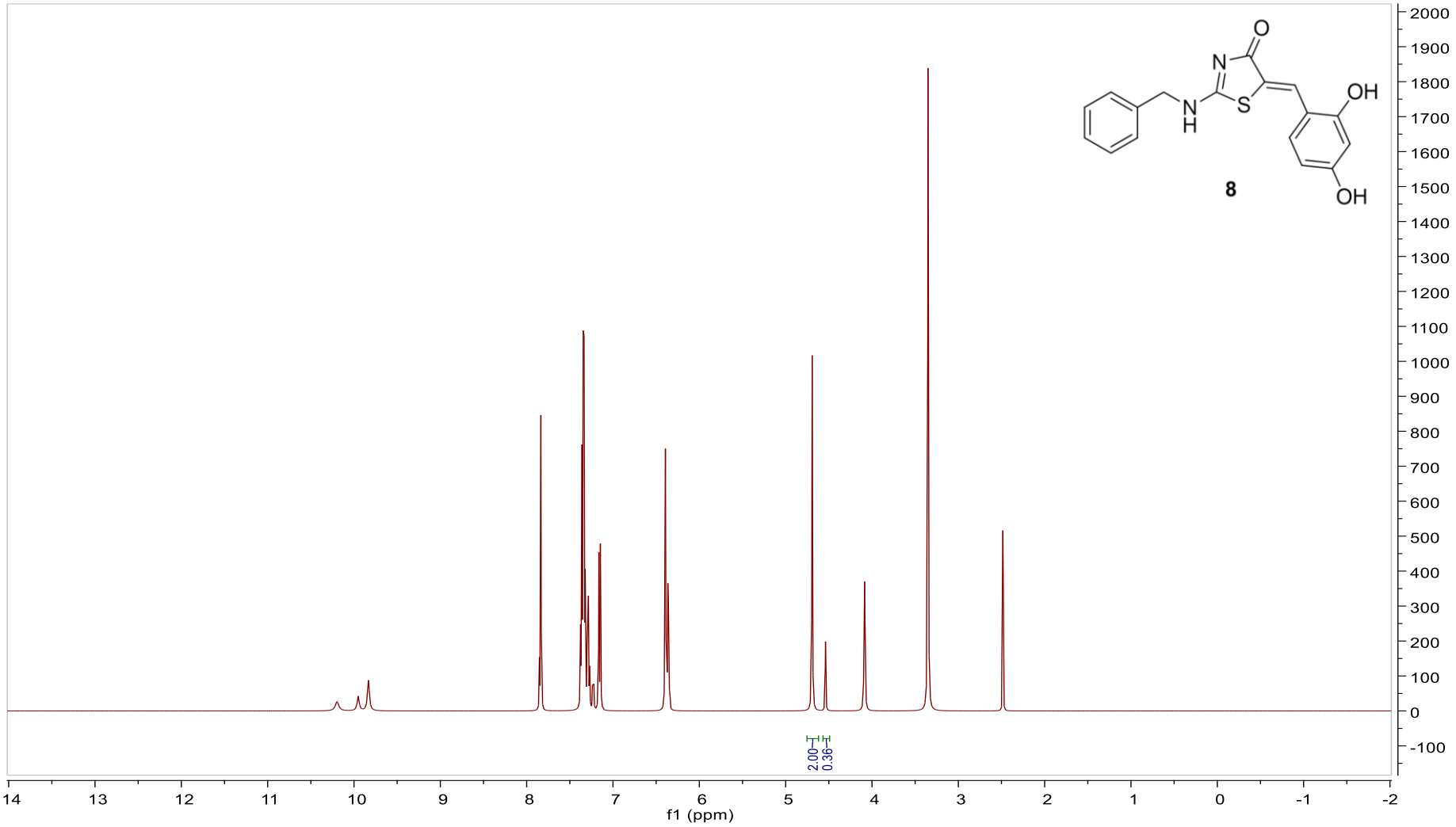


Figure S34. ^{1}H NMR spectrum of compound **8**

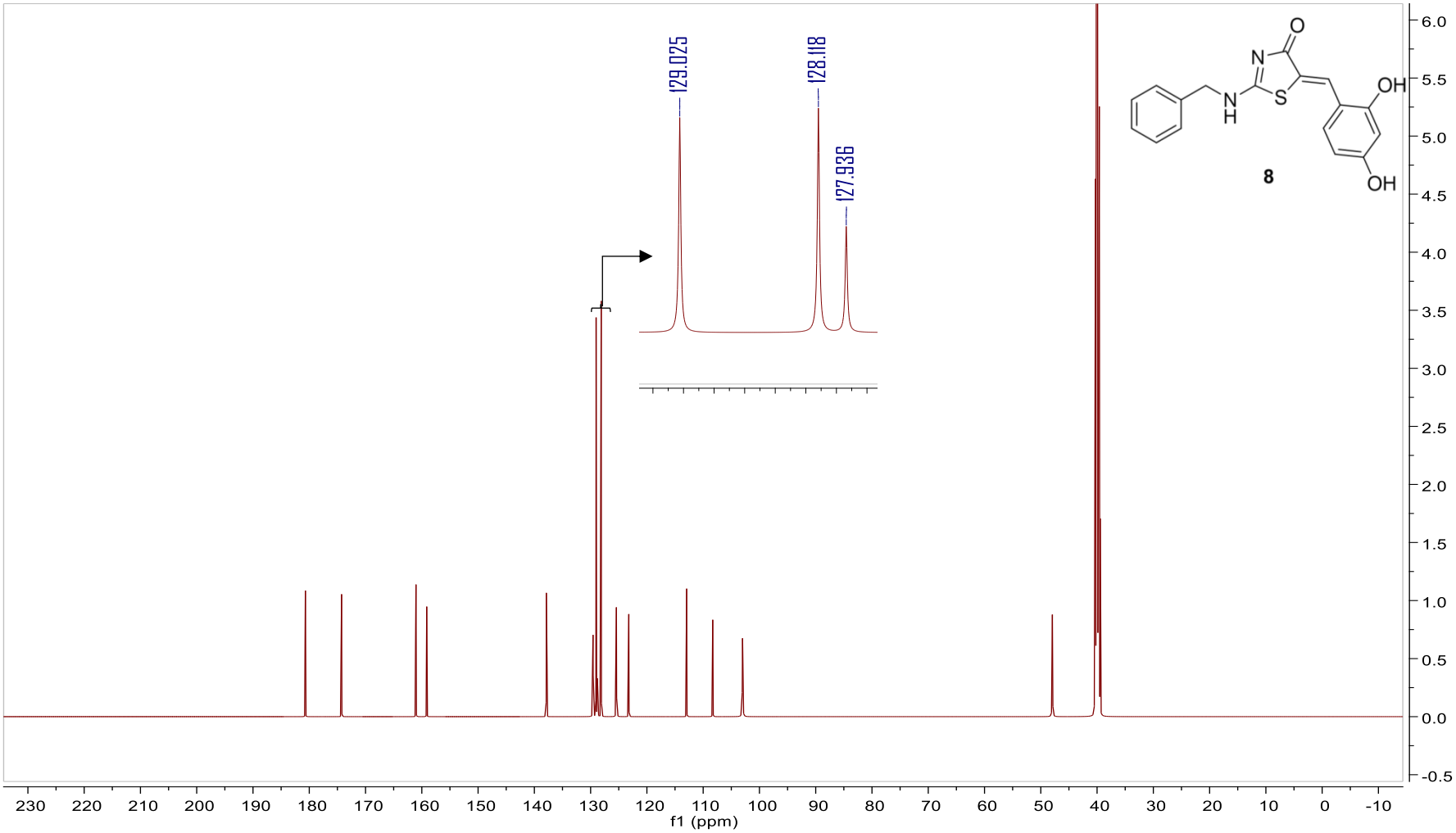


Figure S35. ^{13}C NMR spectrum of compound **8**

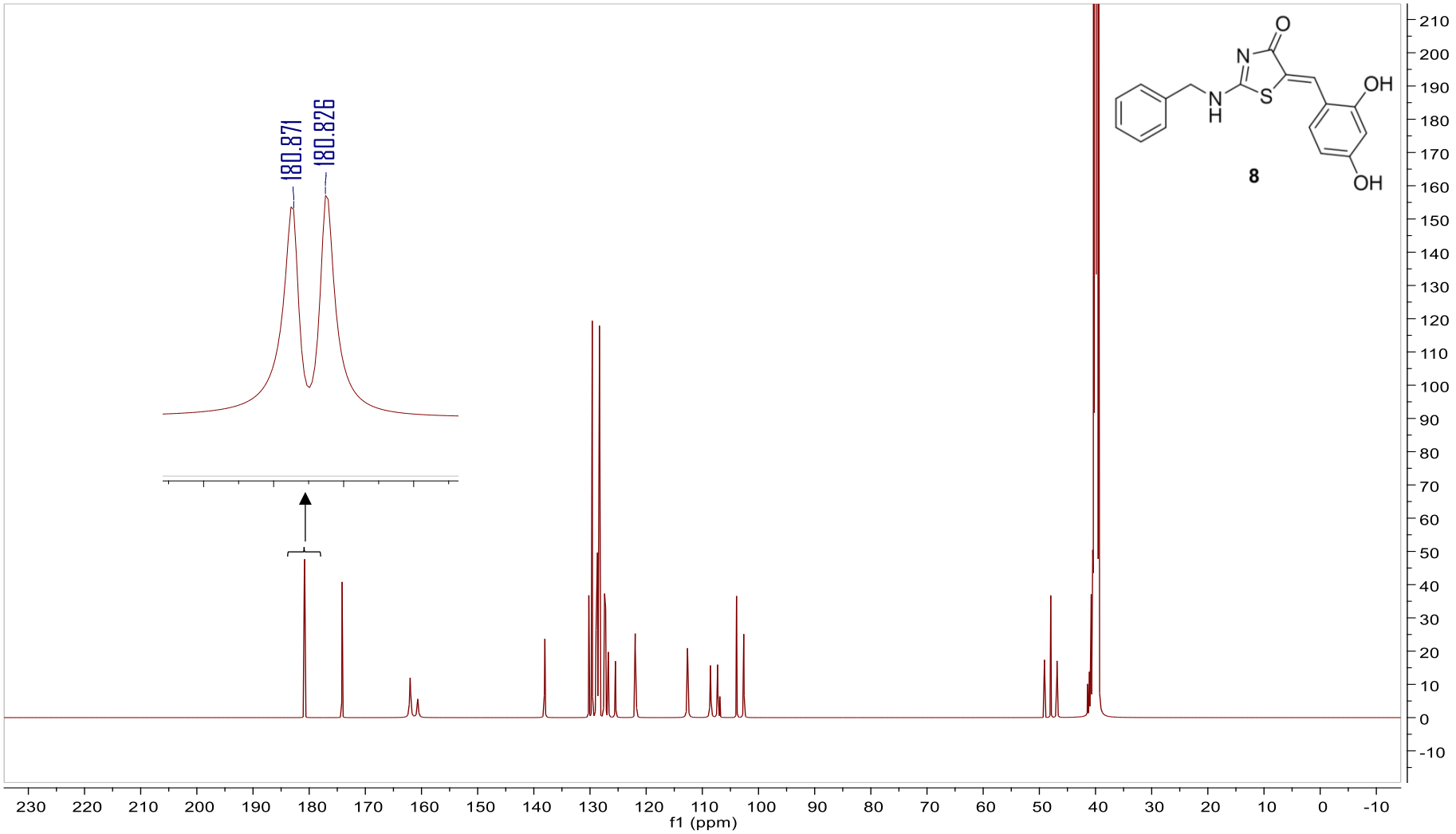


Figure S36. Proton-coupled ^{13}C NMR spectrum of compound **8**

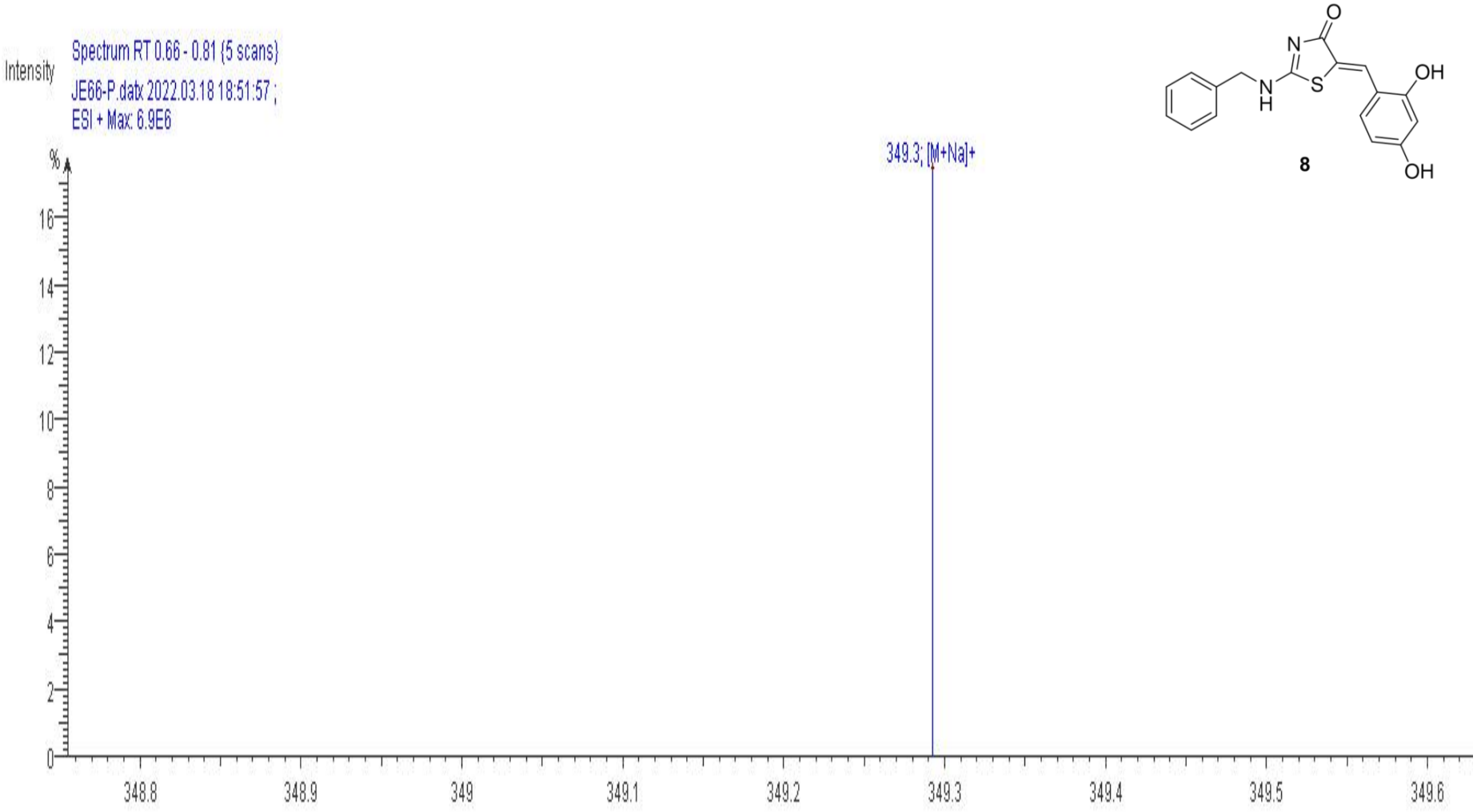


Figure S37. LRMS (ESI+) spectrum of compound **8**

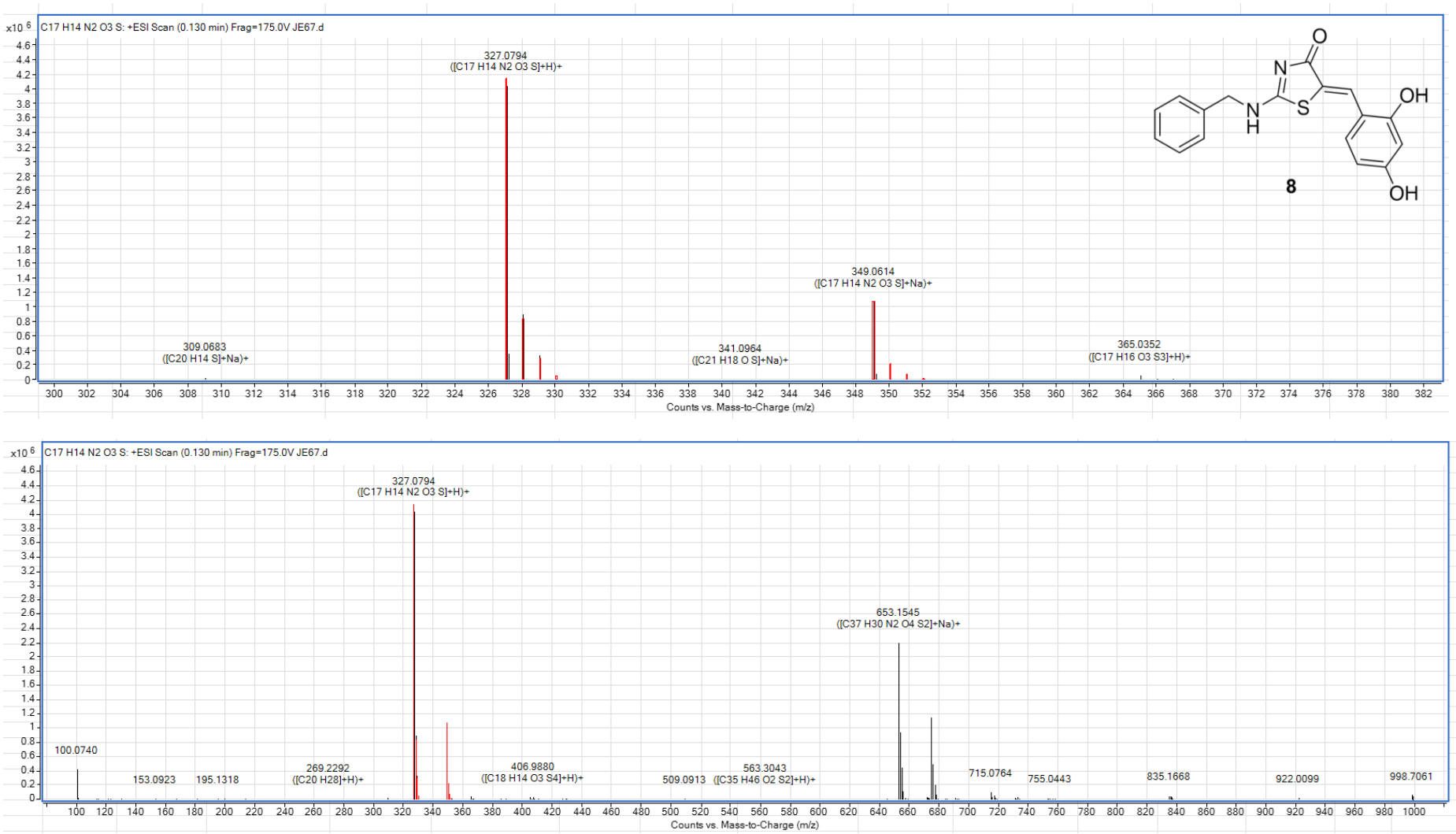


Figure S38. HRMS (ESI+) spectrum of compound **8**

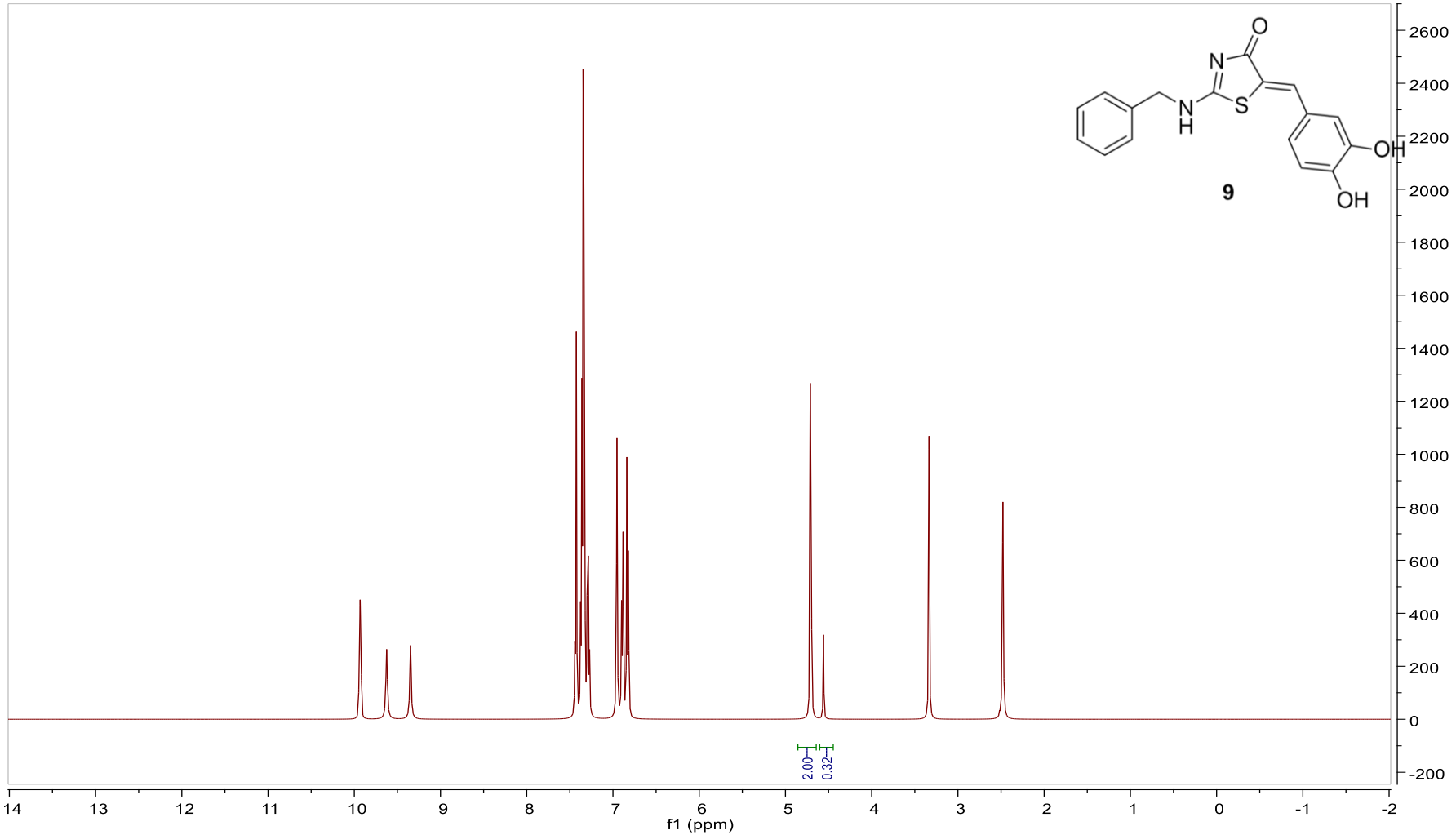


Figure S39. ^{1}H NMR spectrum of compound **9**

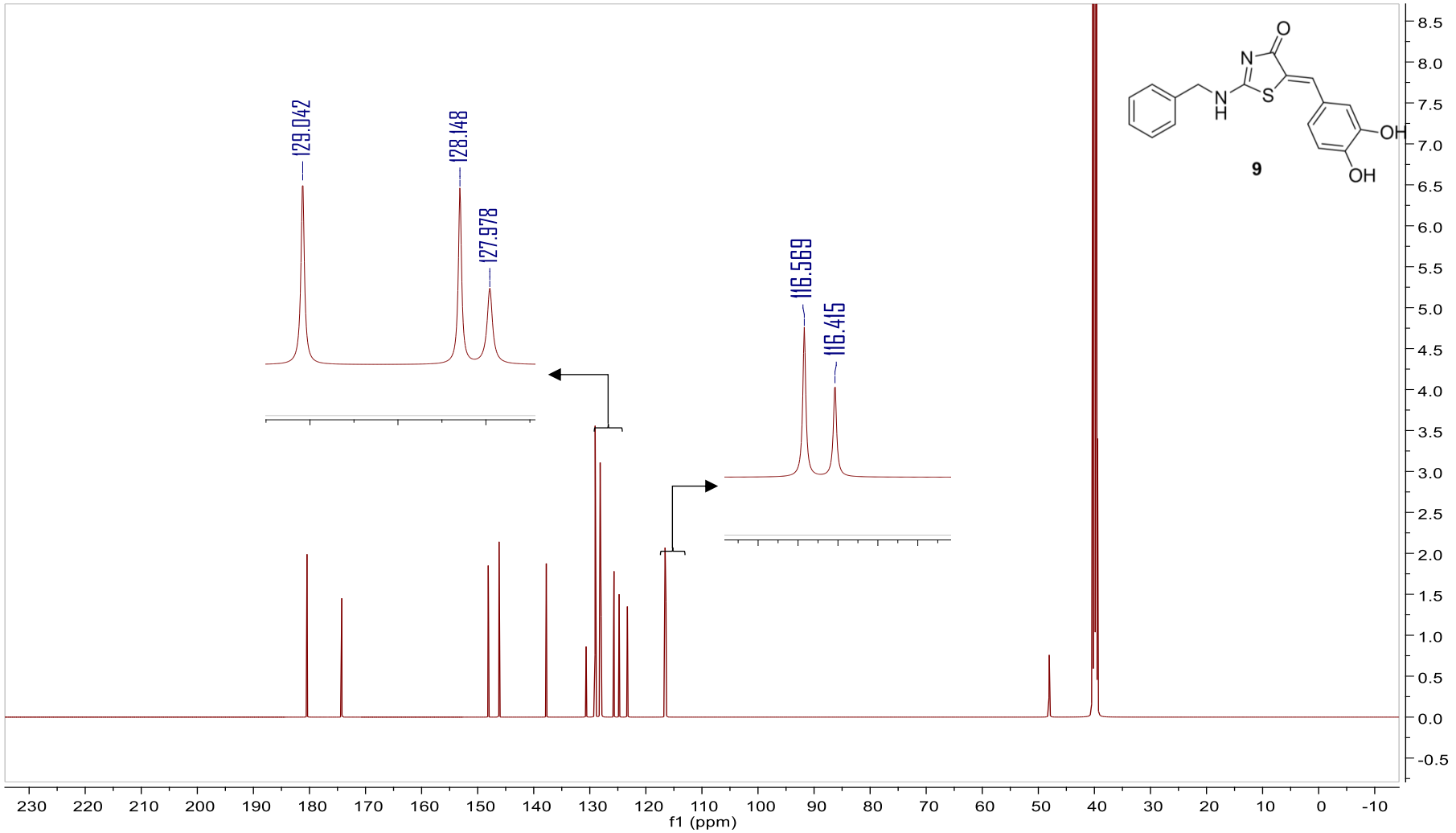


Figure S40. ^{13}C NMR spectrum of compound **9**

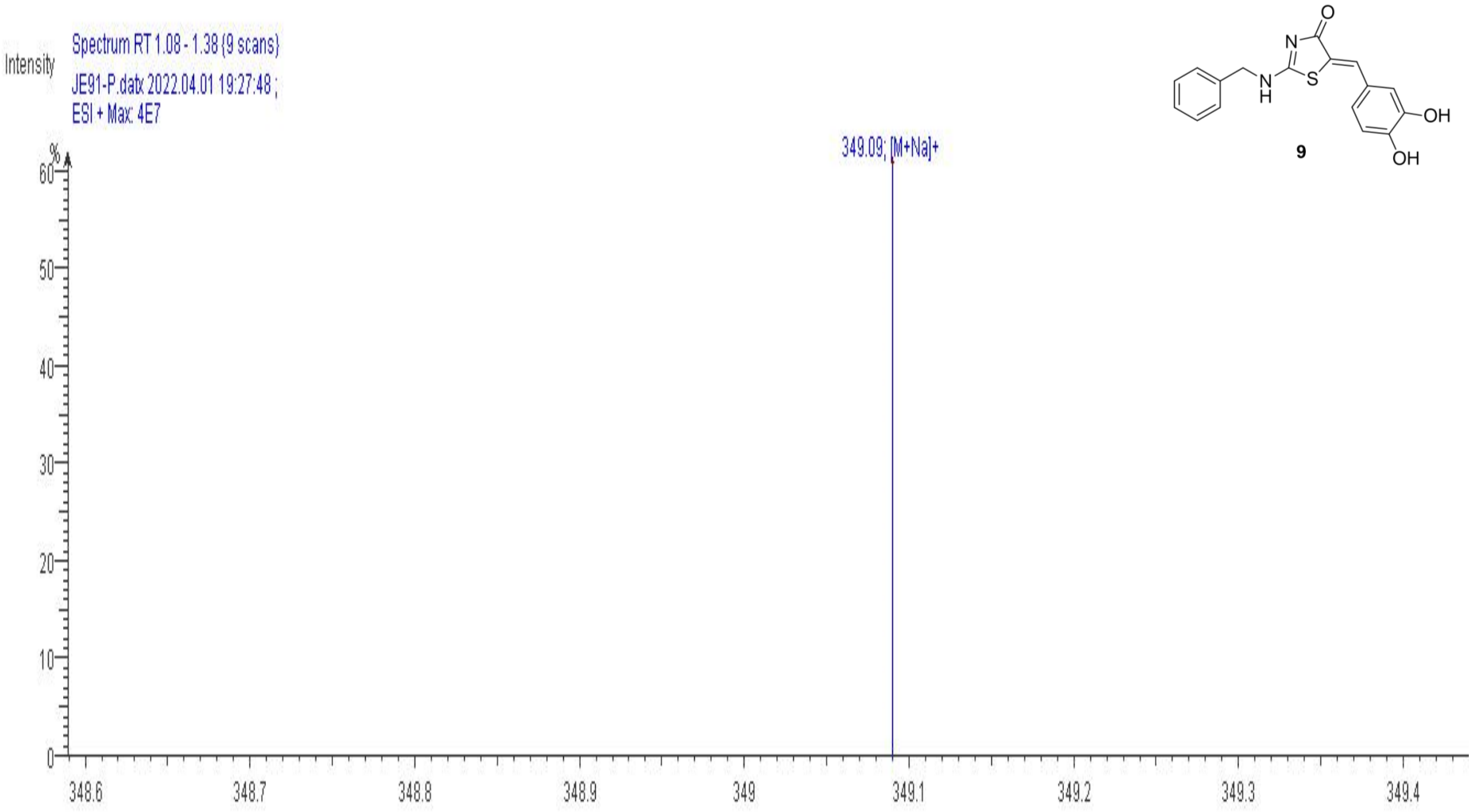


Figure S41. LRMS (ESI+) spectrum of compound **9**

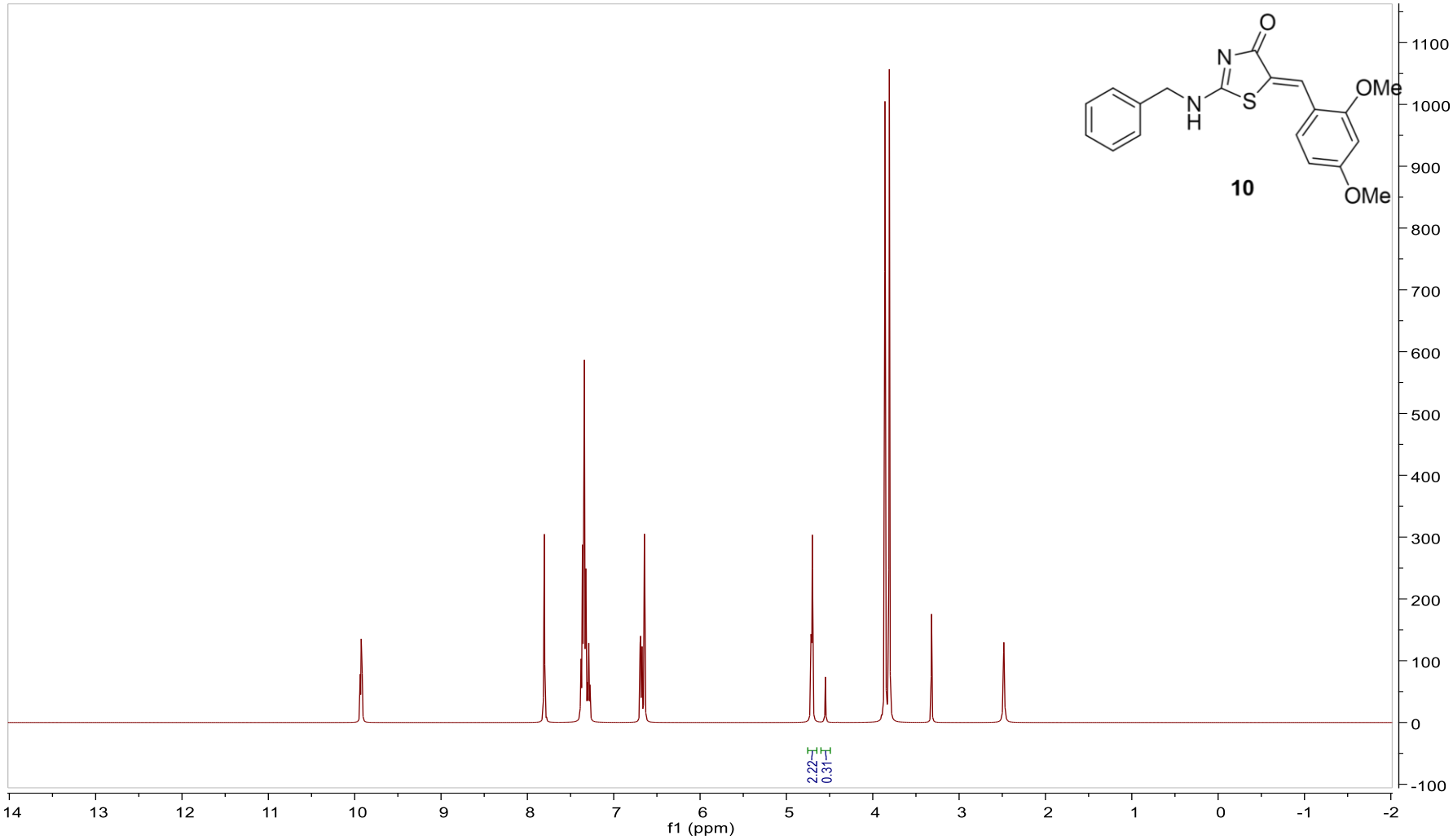


Figure S42. ^{1}H NMR spectrum of compound **10**

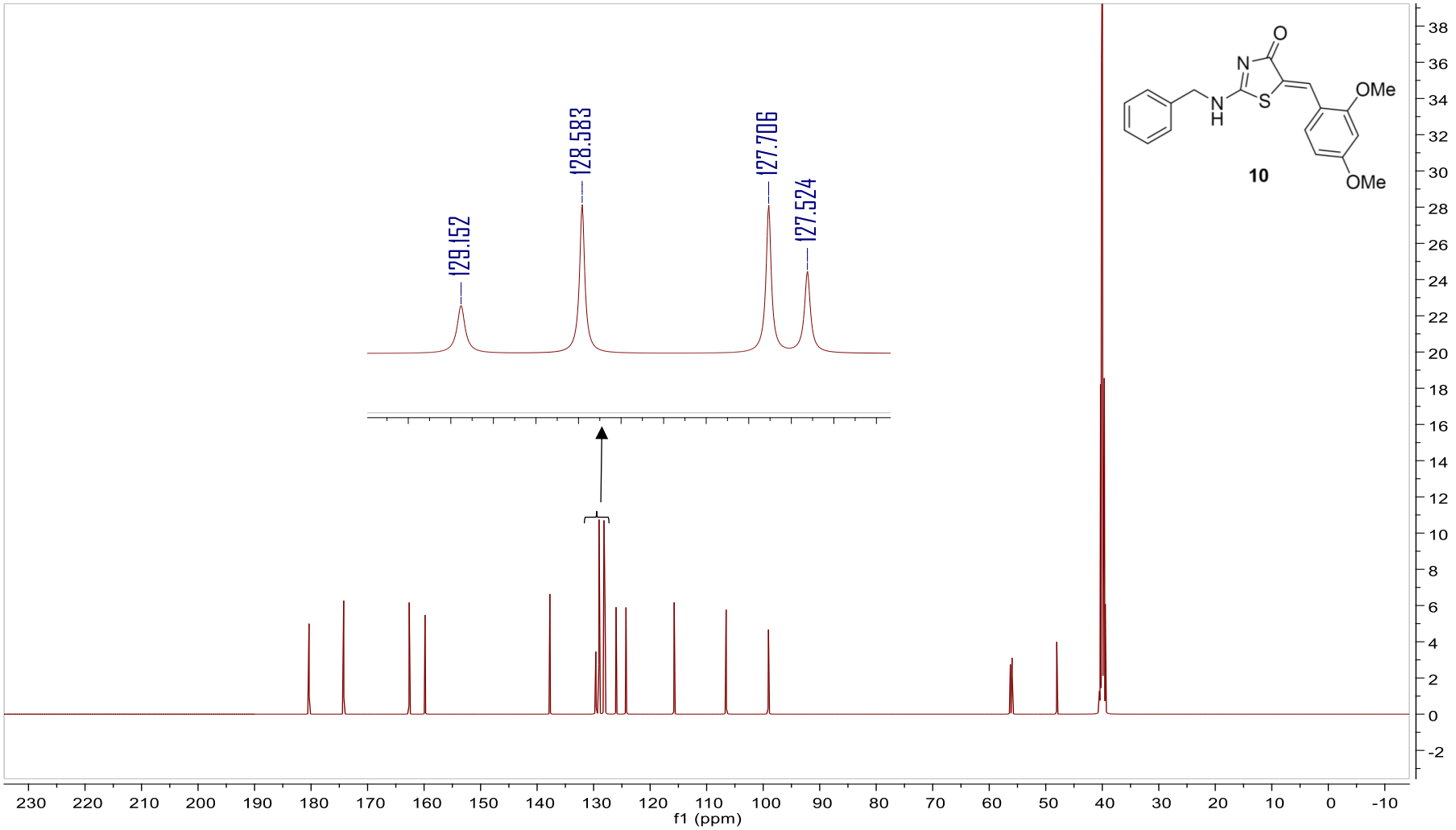


Figure S43. ^{13}C NMR spectrum of compound **10**

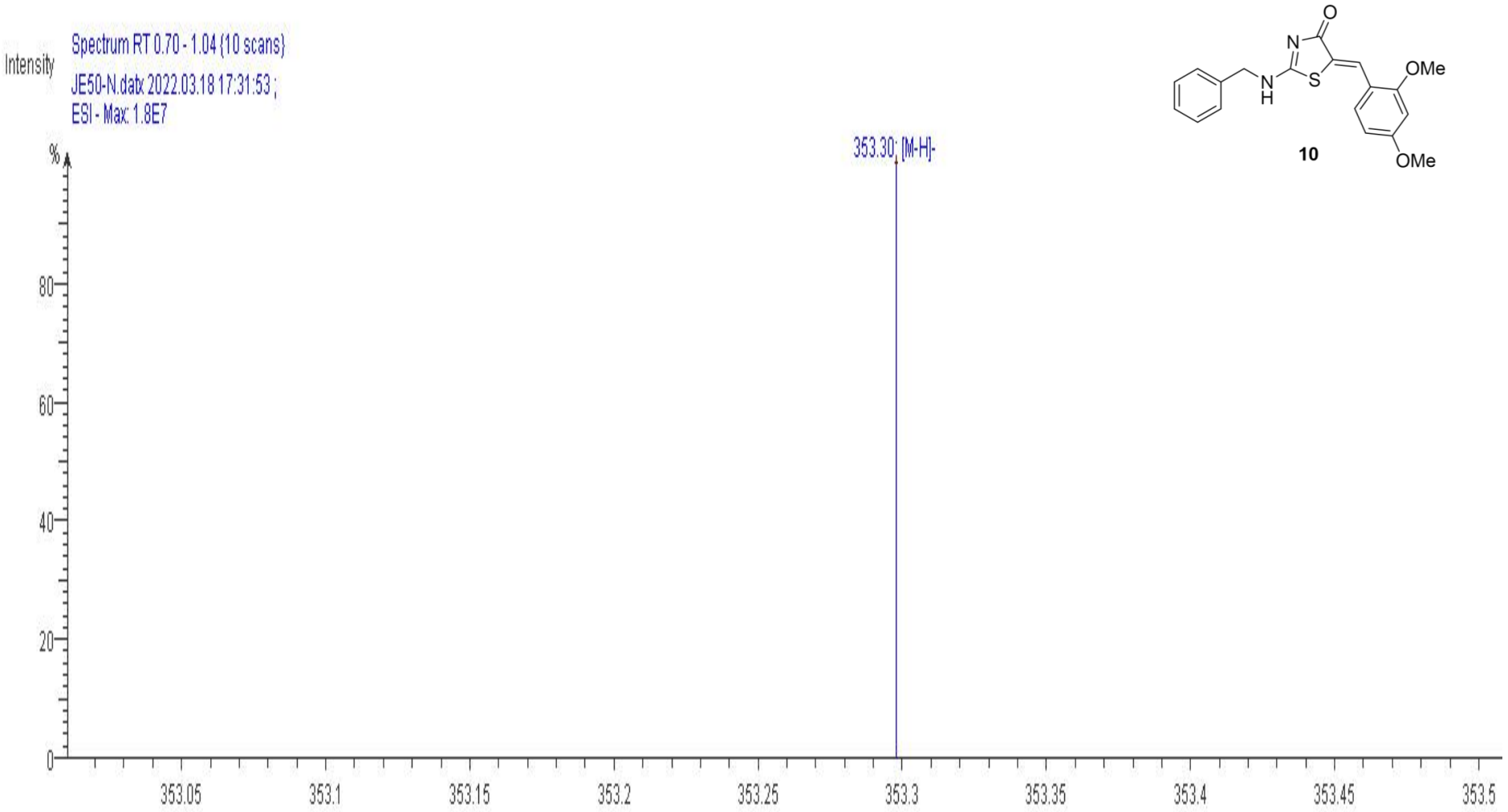


Figure S44. LRMS (ESI–) spectrum of compound **10**

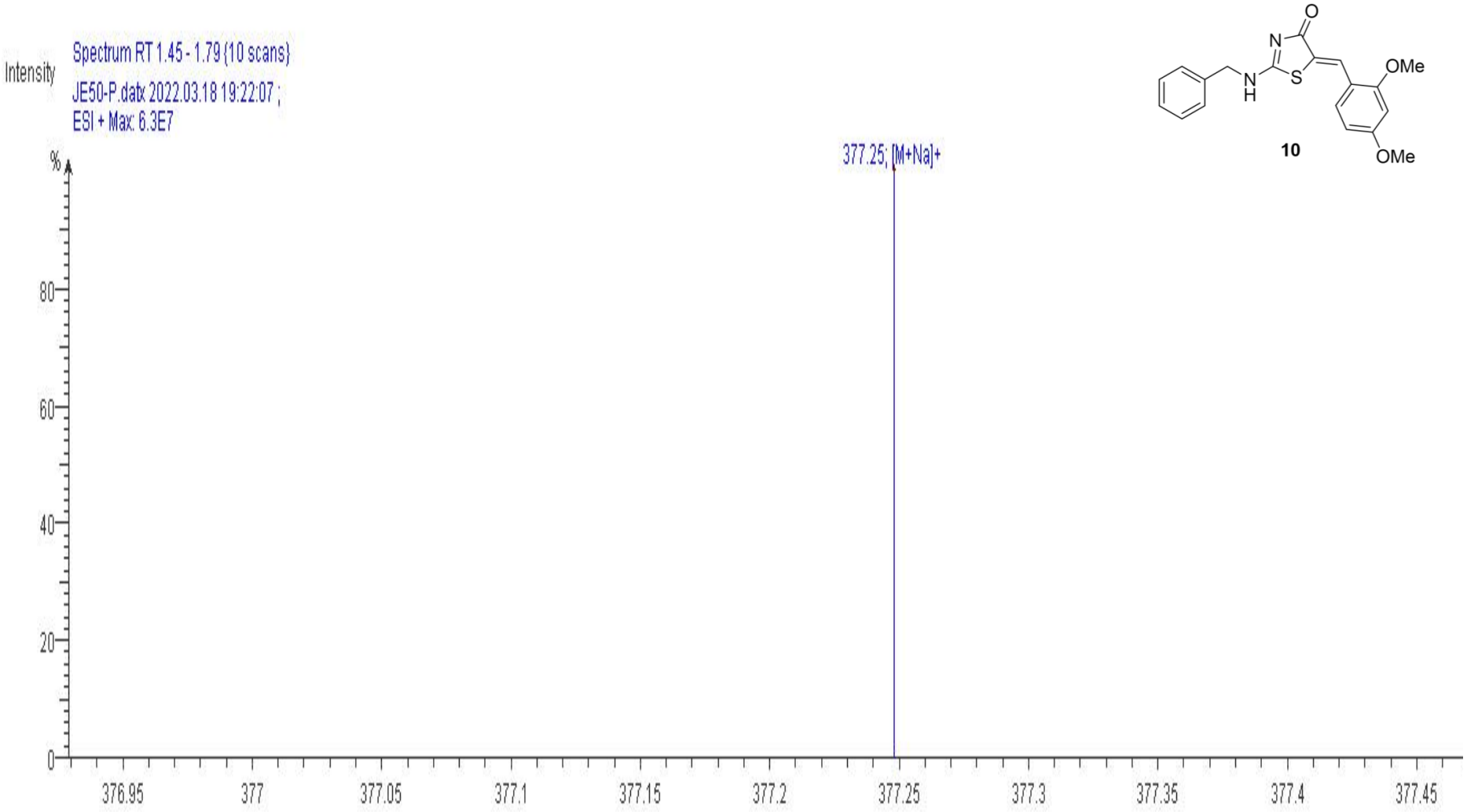


Figure S45. LRMS (ESI+) spectrum of compound **10**

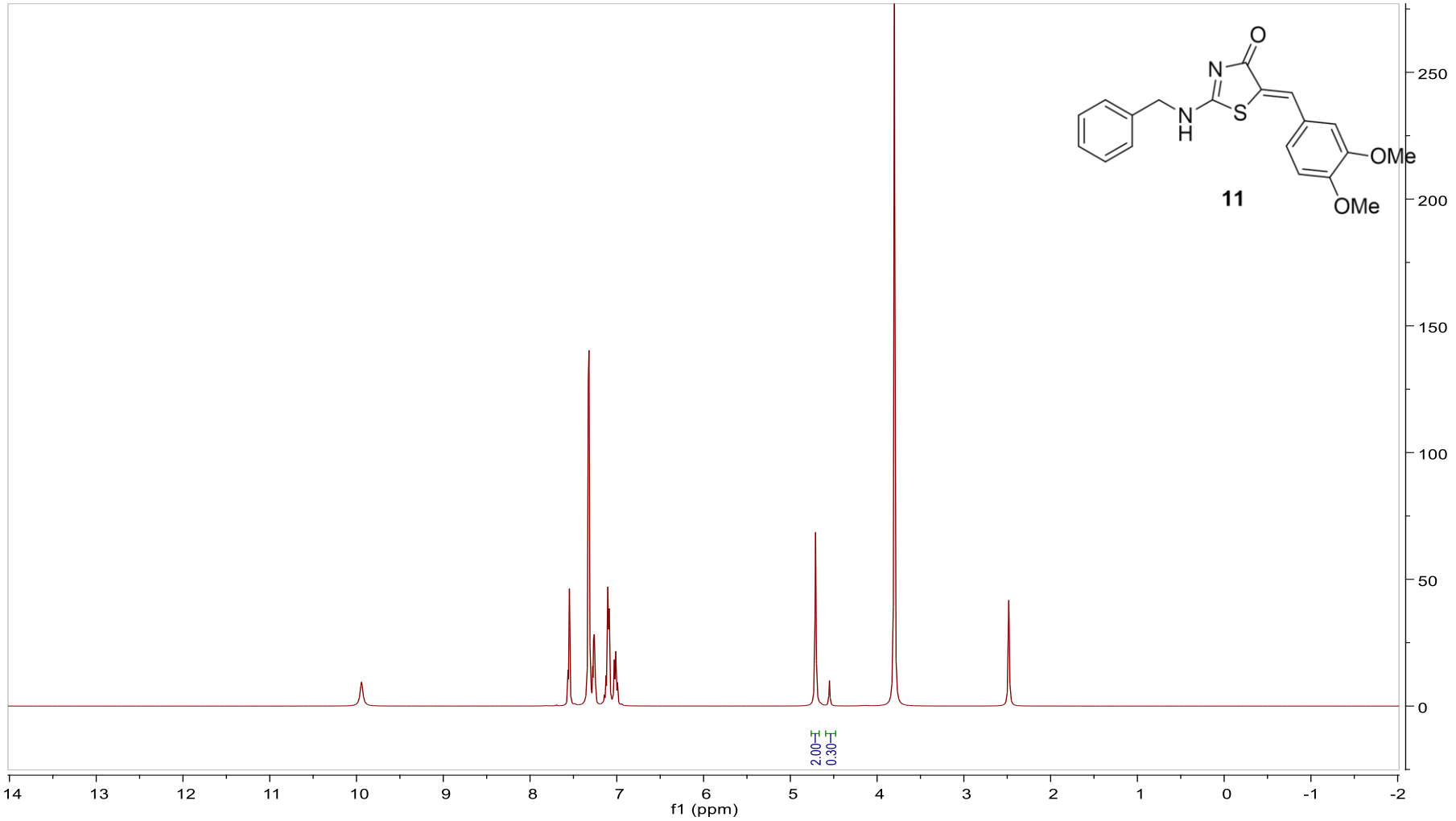


Figure S46. ^{1}H NMR spectrum of compound **11**

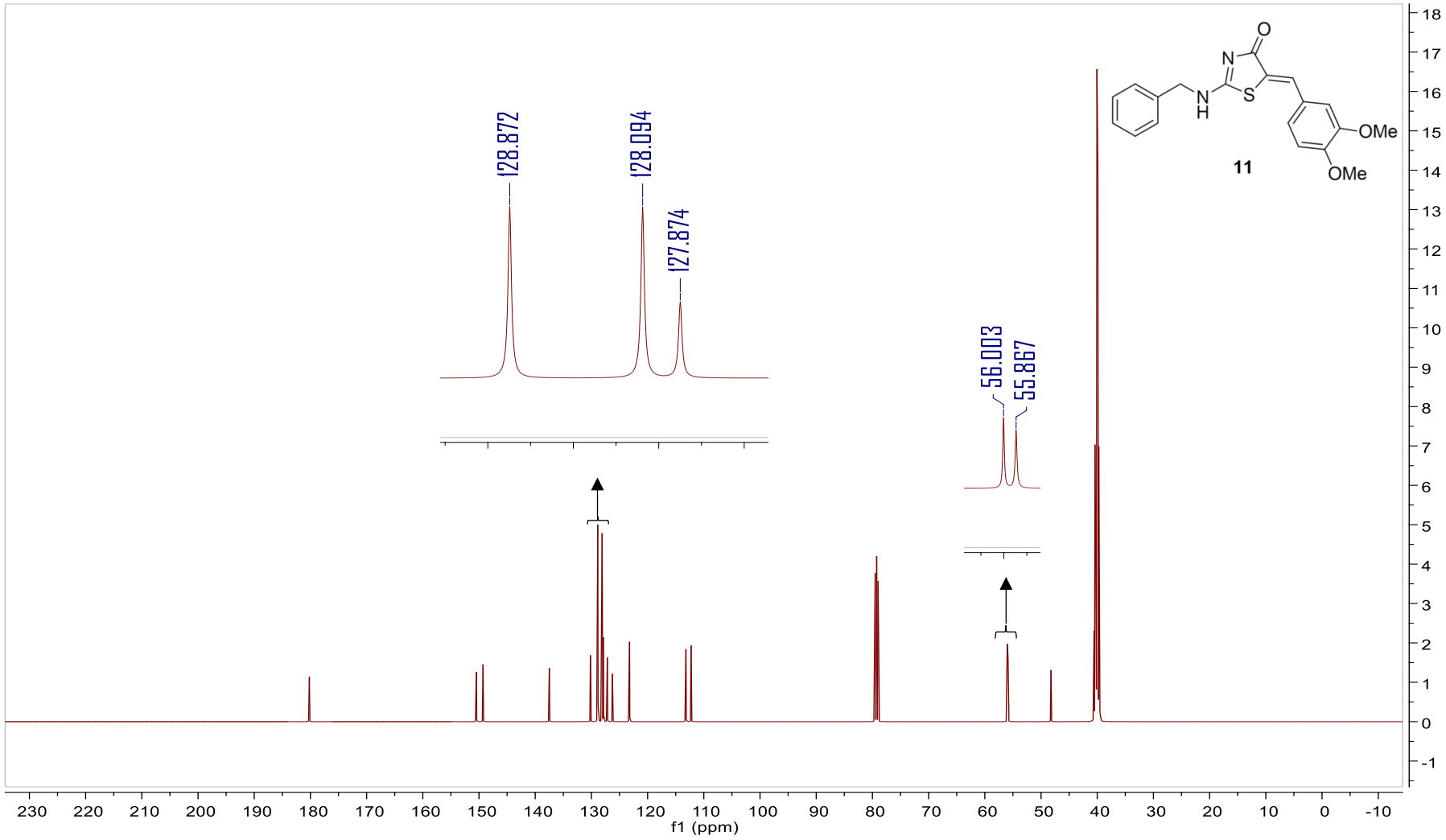


Figure S47. ^{13}C NMR spectrum of compound **11**

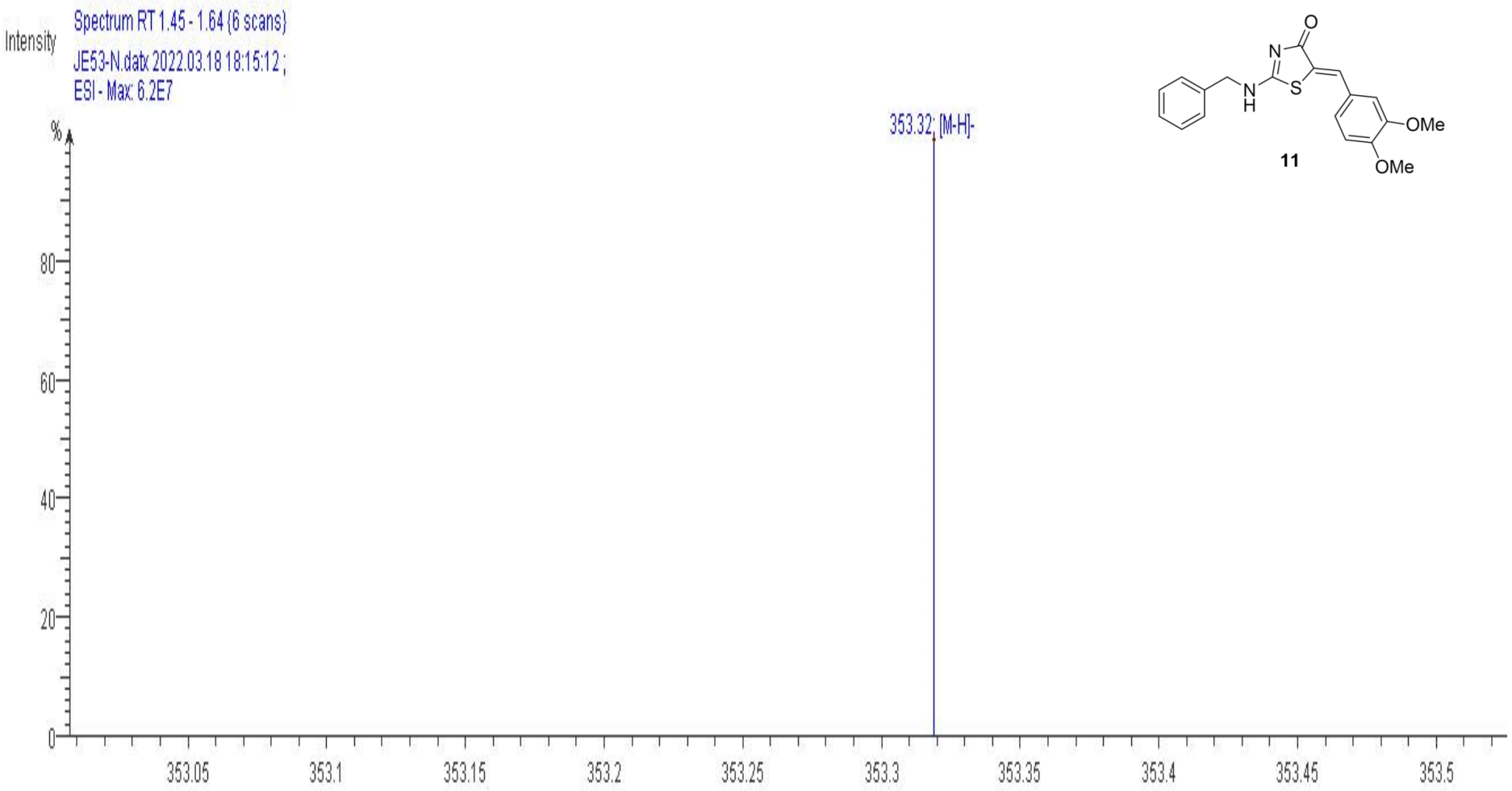


Figure S48. LRMS (ESI–) spectrum of compound **11**

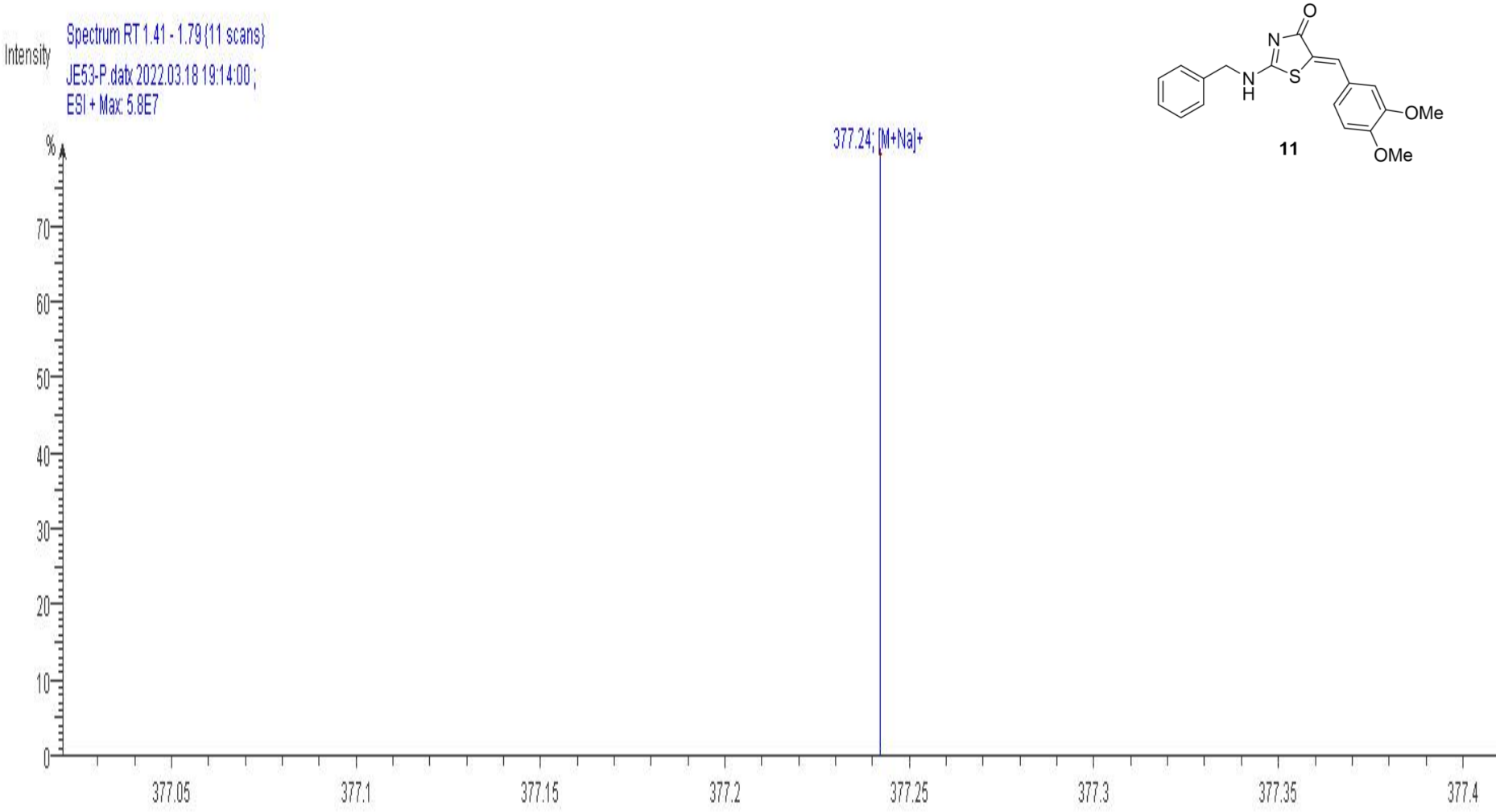


Figure S49. LRMS (ESI+) spectrum of compound **11**

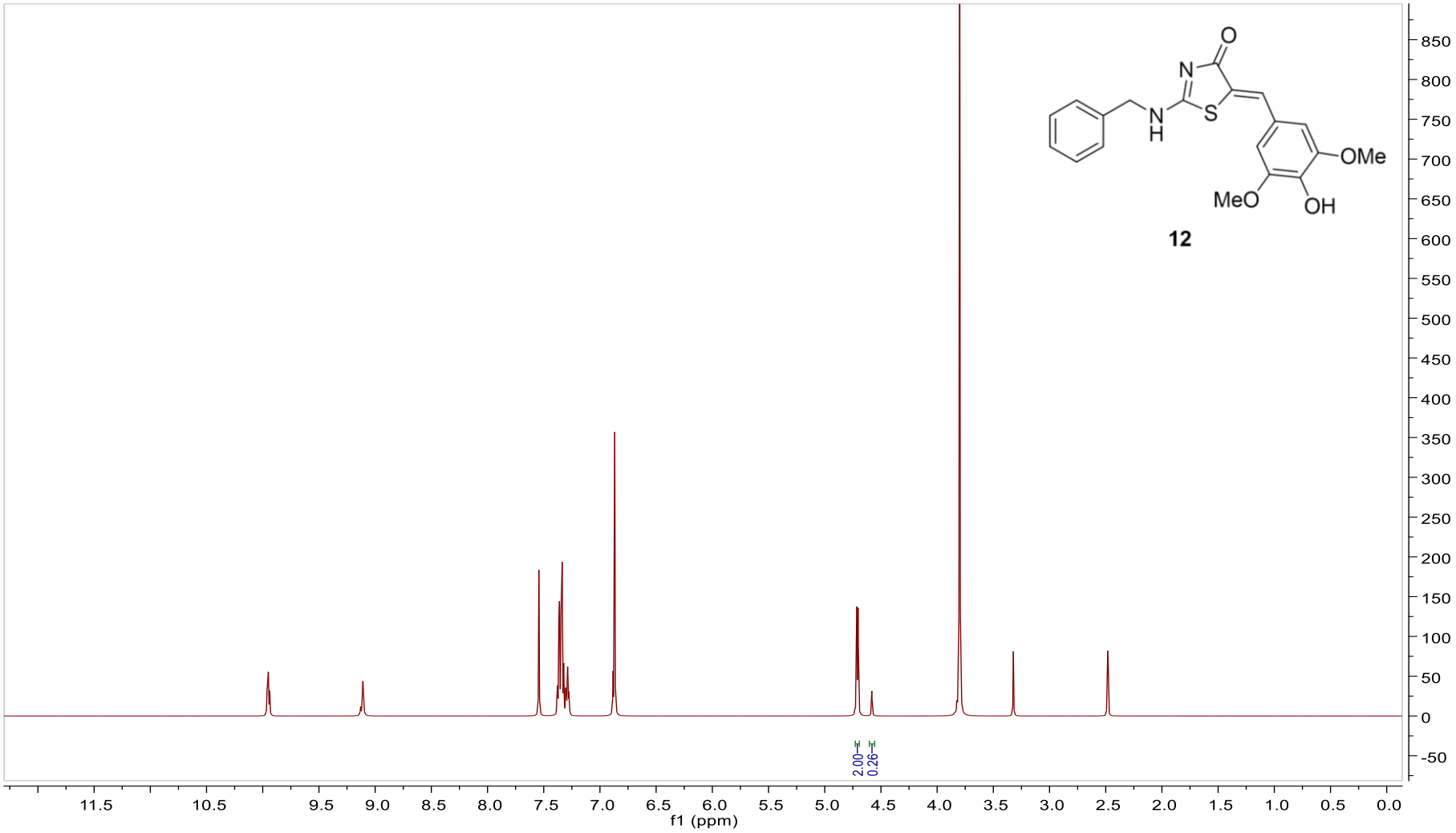


Figure S50. ^{1}H NMR spectrum of compound **12**

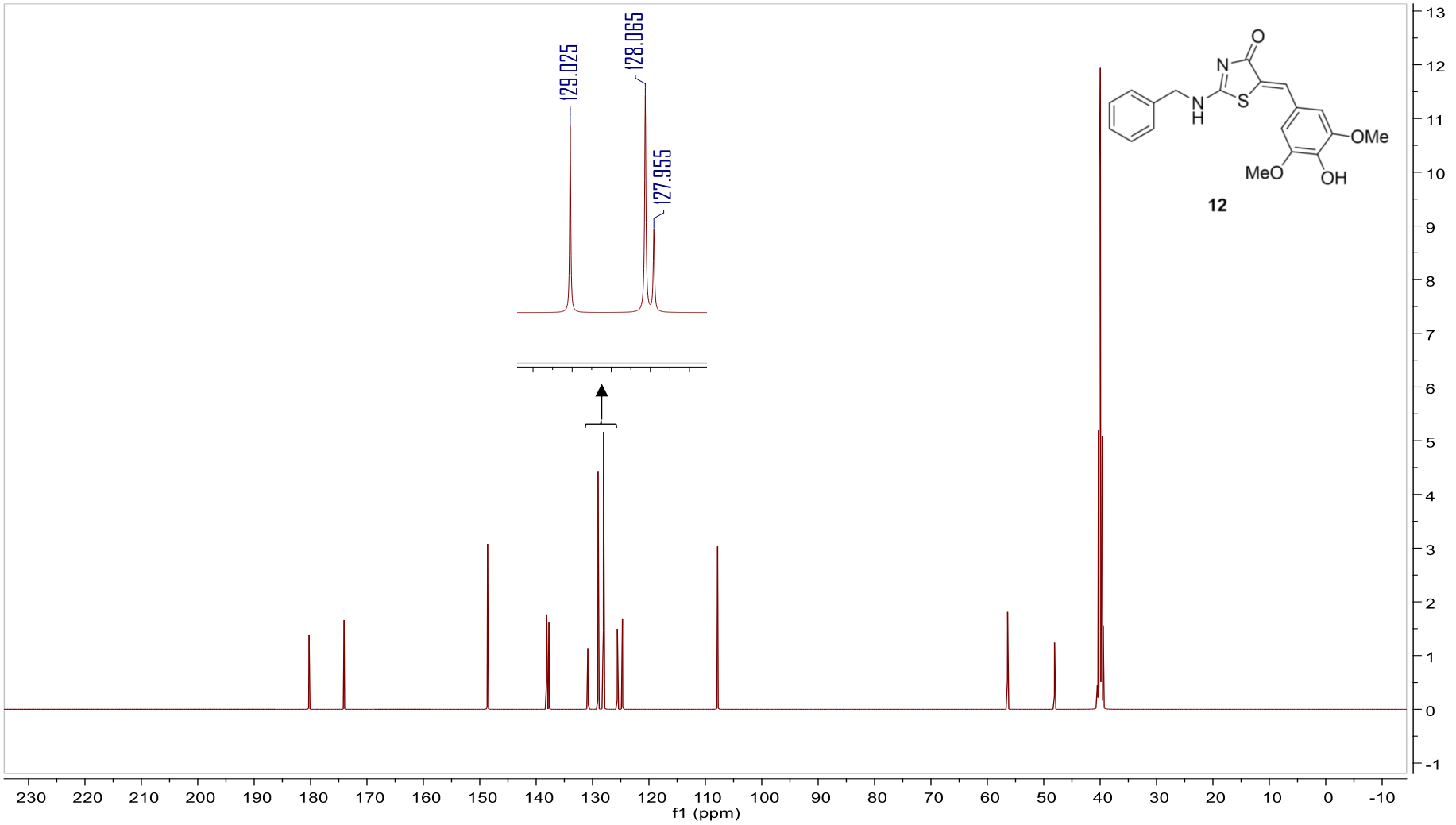


Figure S51. ^{13}C NMR spectrum of compound **12**

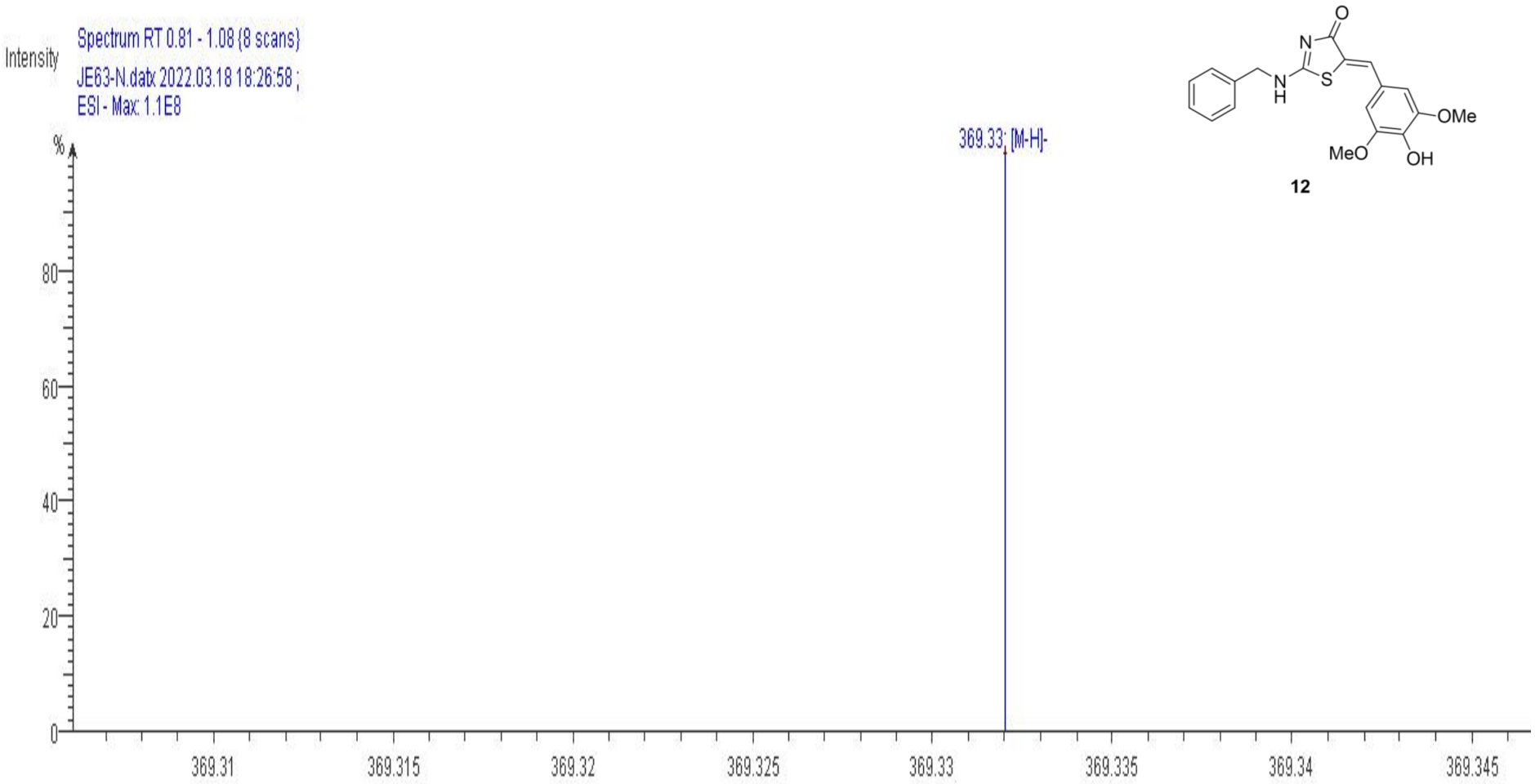


Figure S52. LRMS (ESI–) spectrum of compound **12**

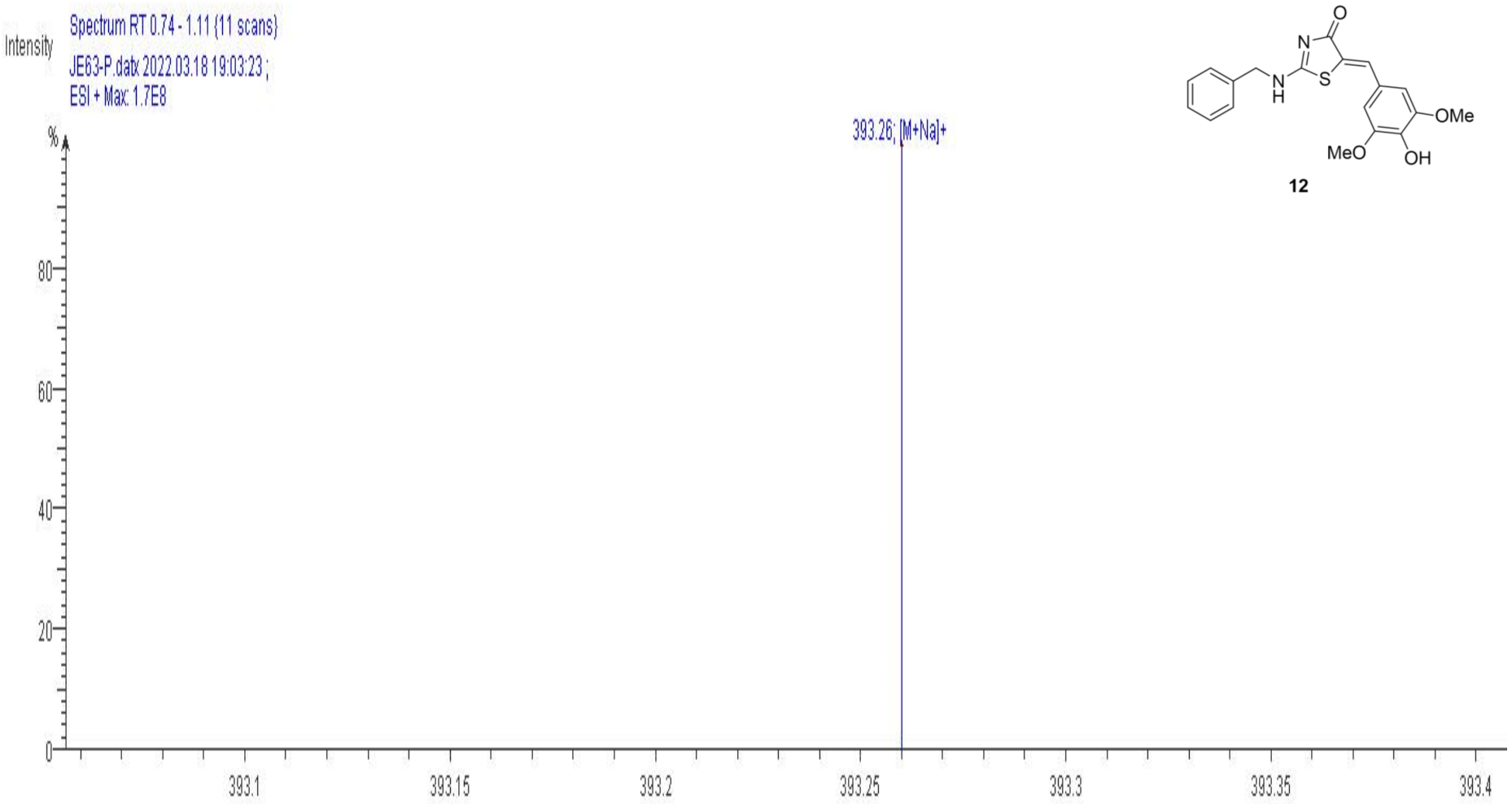


Figure S53. LRMS (ESI+) spectrum of compound **12**

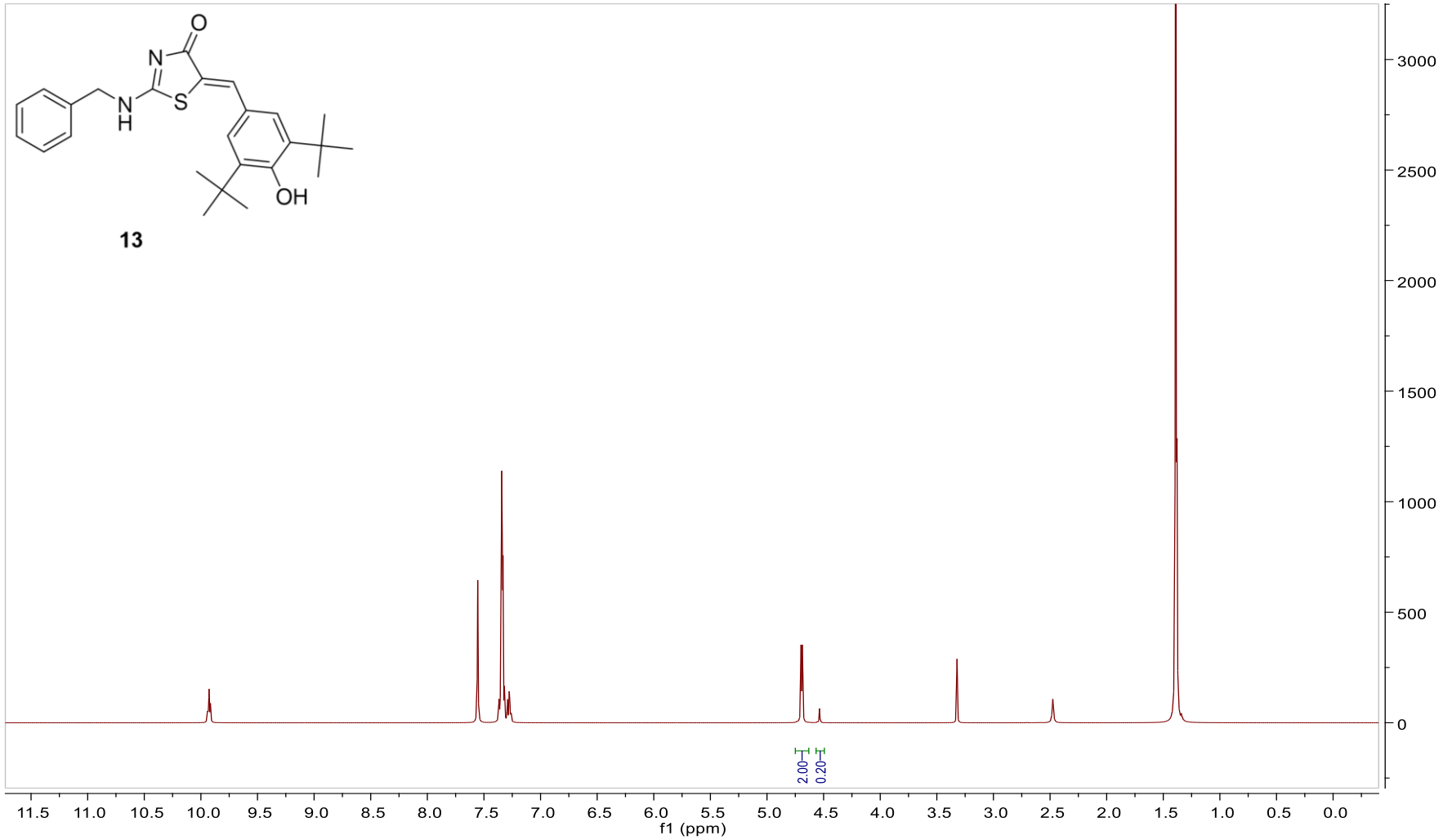


Figure S54. ^{1}H NMR spectrum of compound **13**

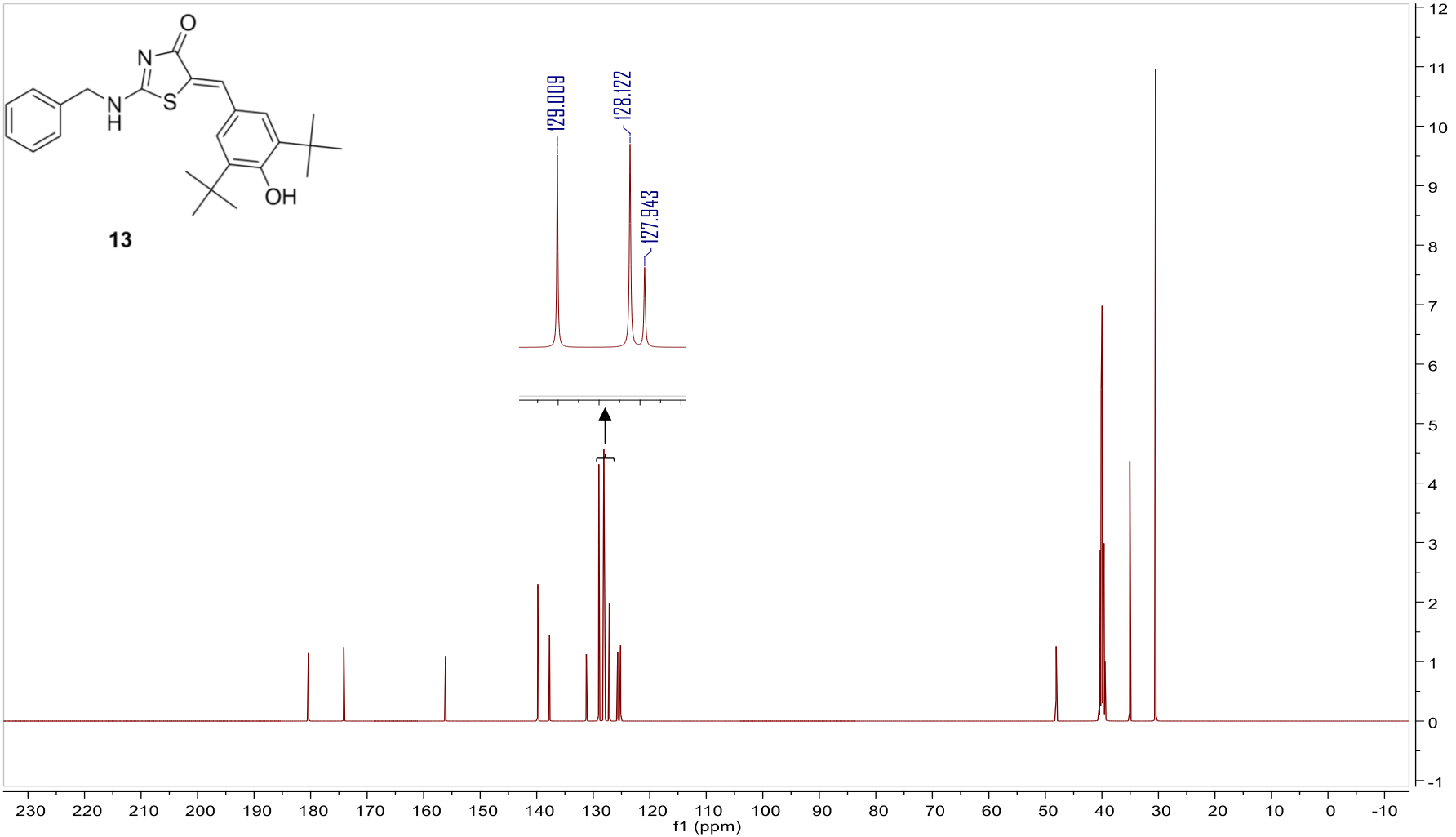


Figure S55. ^{13}C NMR spectrum of compound **13**

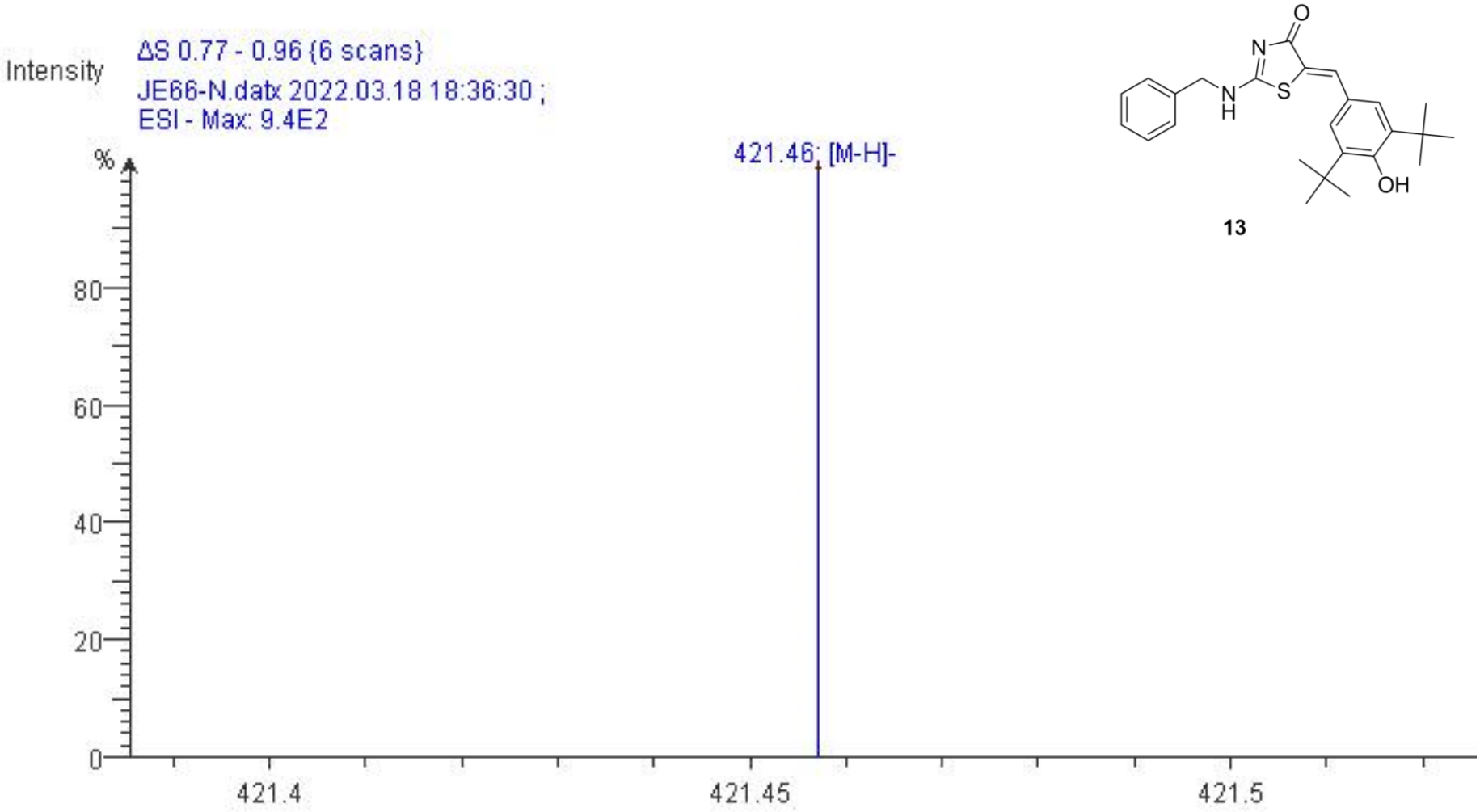


Figure S56. LRMS (ESI–) spectrum of compound **13**

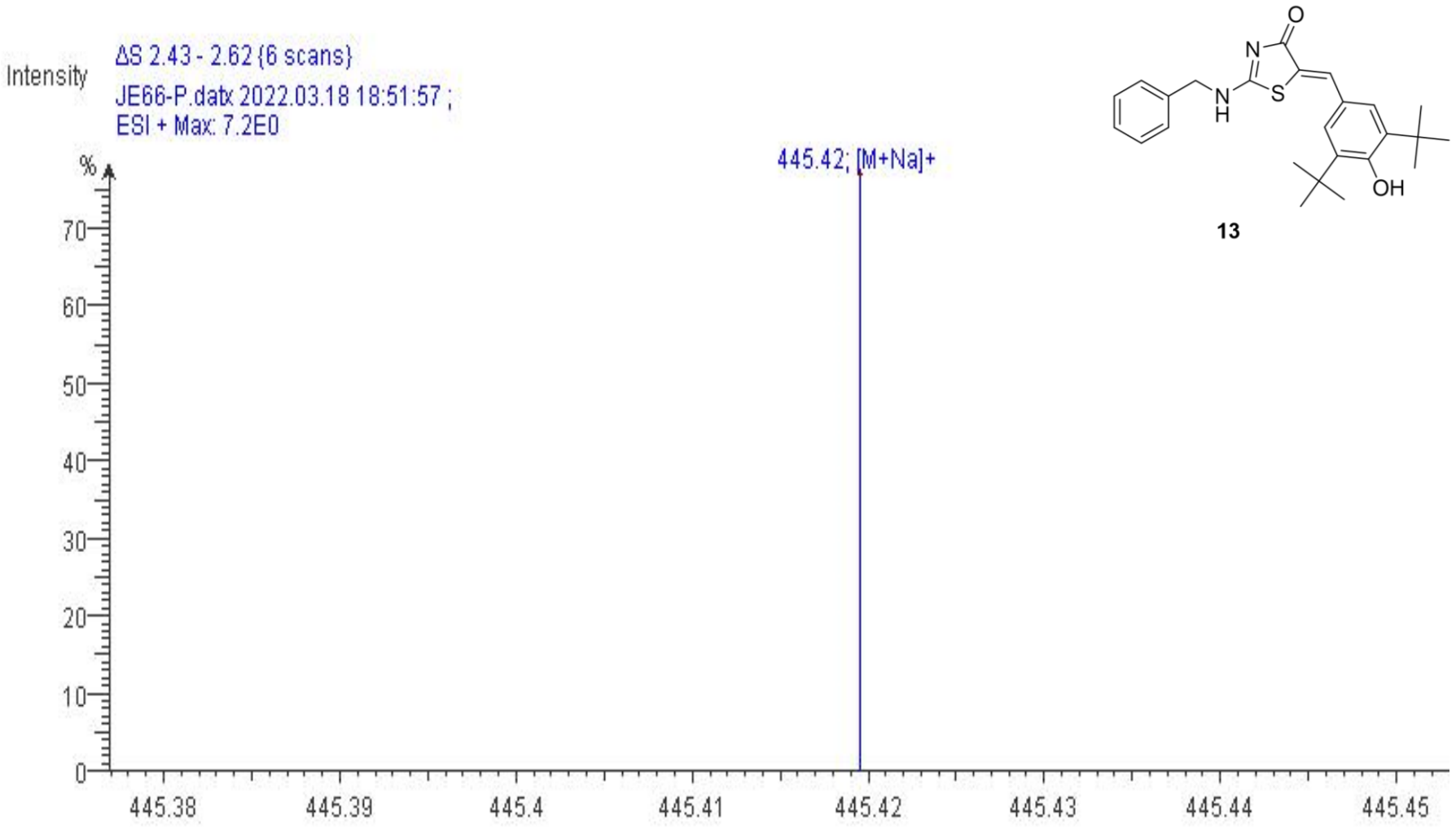


Figure S57. LRMS (ESI+) spectrum of compound **13**

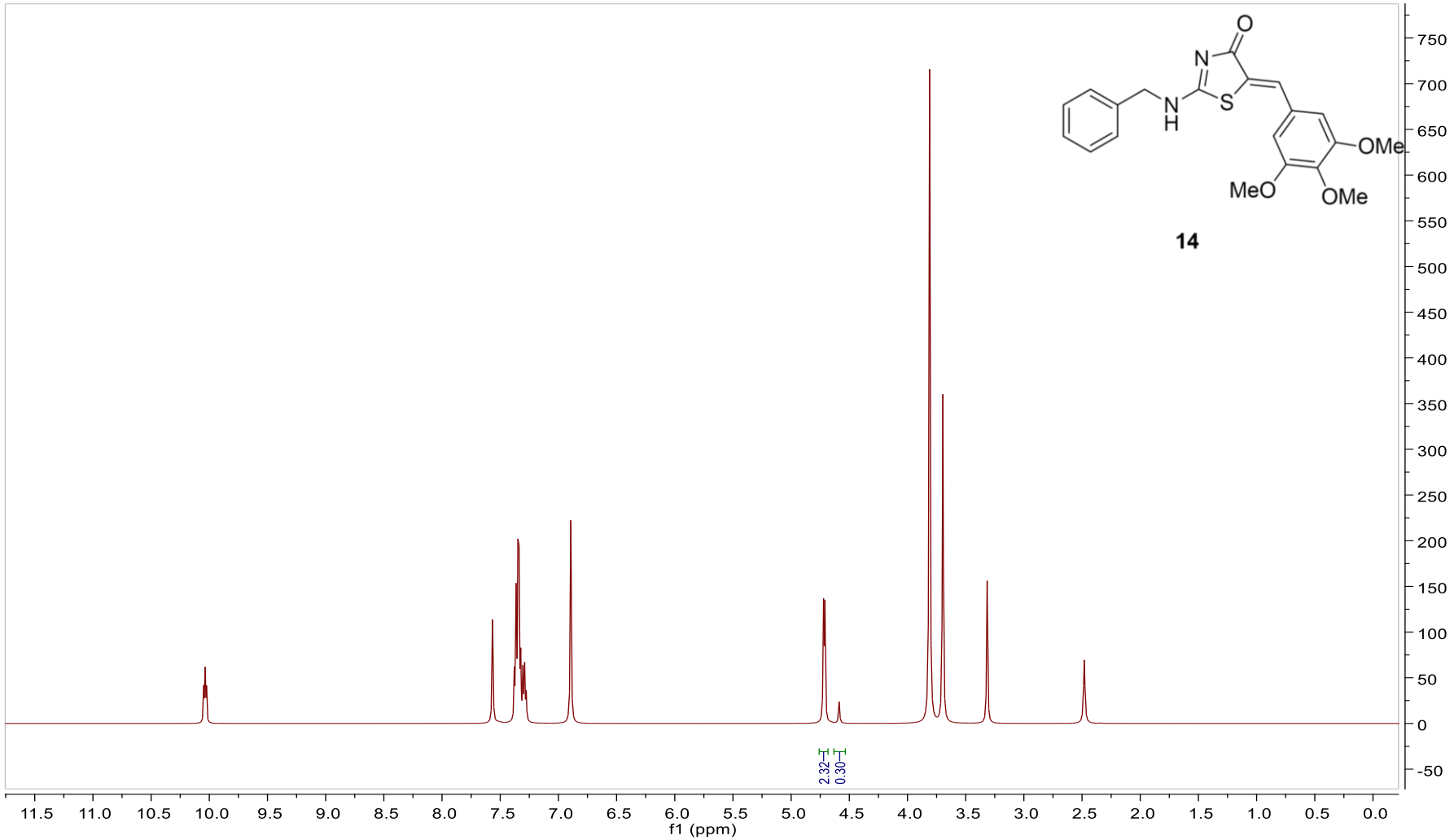


Figure S58. ^{1}H NMR spectrum of compound **14**

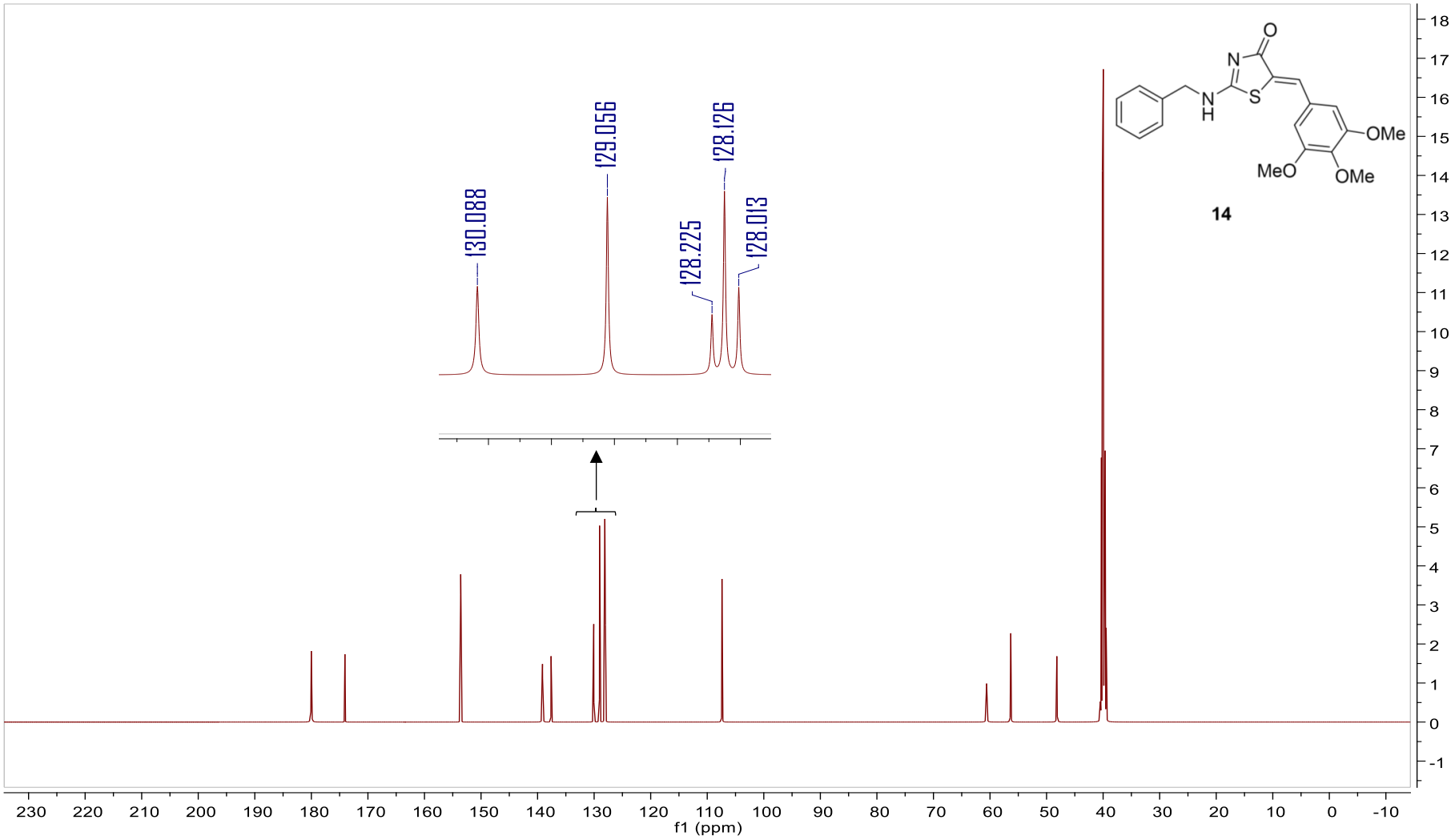


Figure S59. ^{13}C NMR spectrum of compound **14**

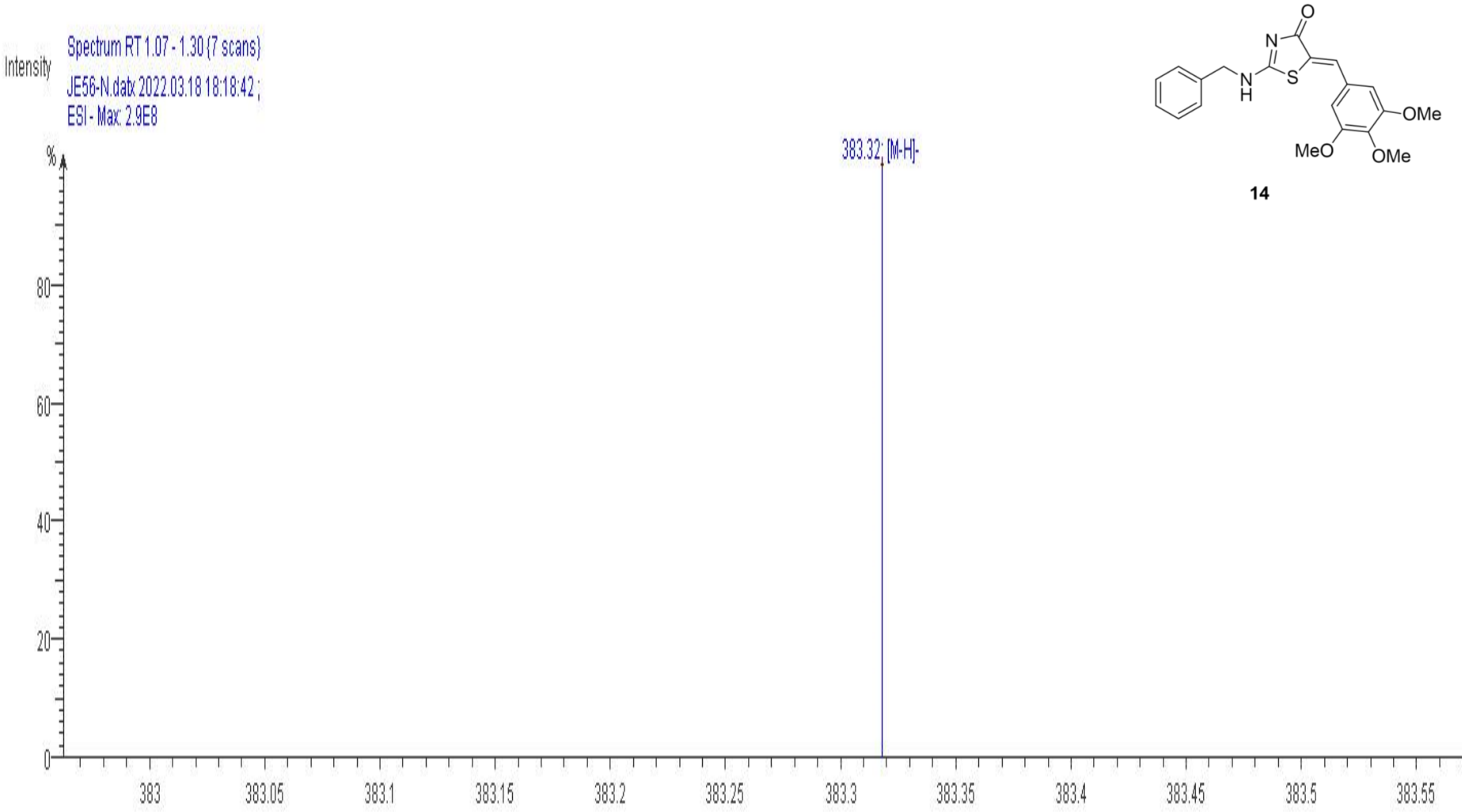


Figure S60. LRMS (ESI–) spectrum of compound **14**

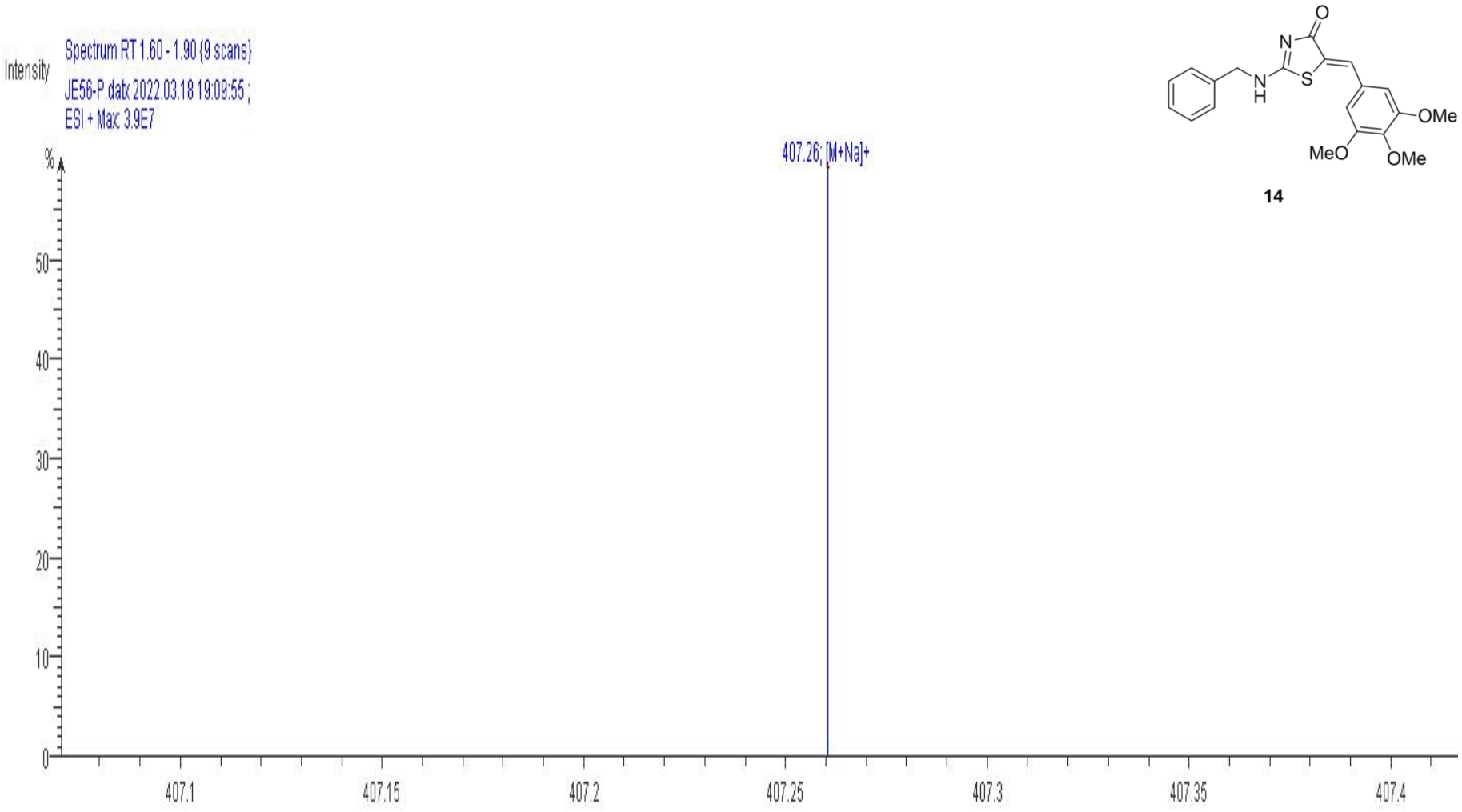


Figure S61. LRMS (ESI+) spectrum of compound **14**