

Supplementary Information

Dual Inhibition of Neutrophil Superoxide Generation and Elastase Release via JNK, ERK and FAK Pathway: Blockade by Methoxy-Chalcone Derivatives

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¹H NMR, ¹³C NMR, and mass spectral data of the target compounds (1-28)

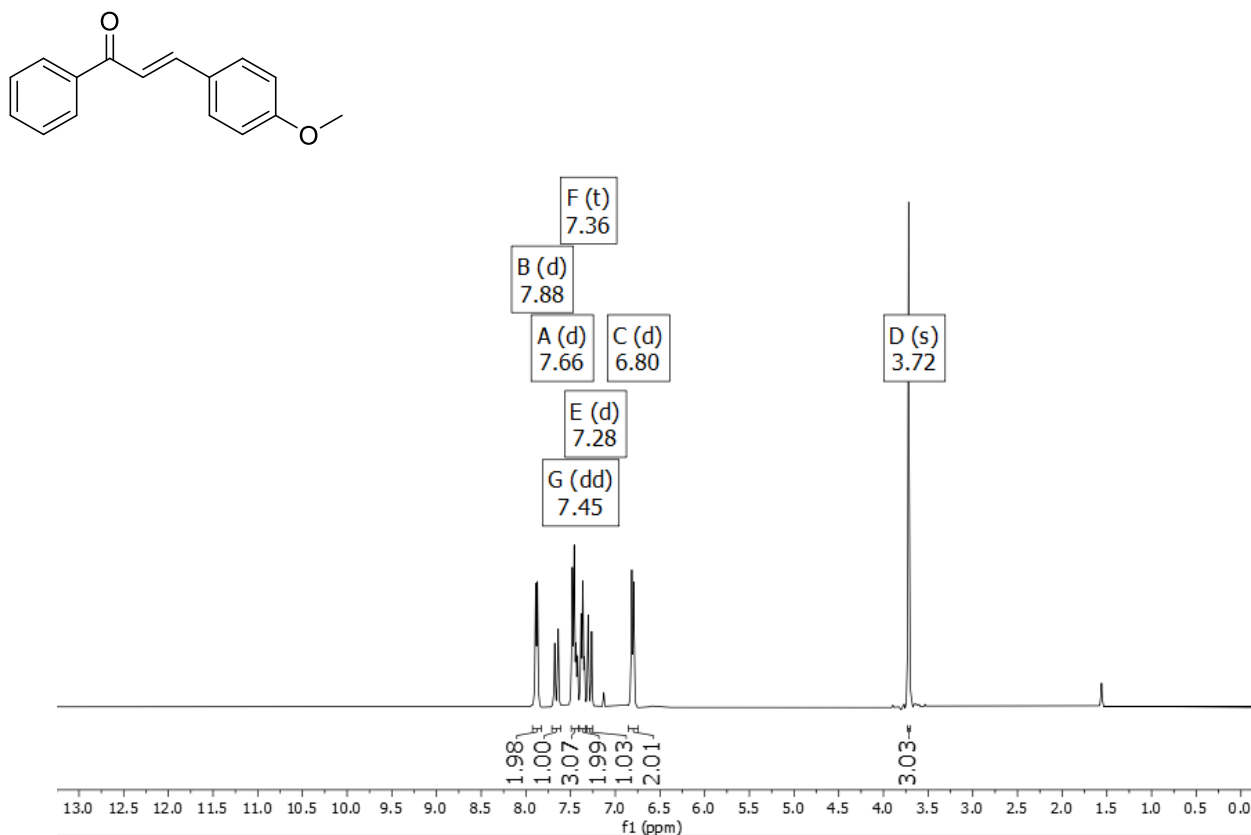


Figure S1. ¹H NMR (400 MHz, CDCl₃) spectrum of compound 1.

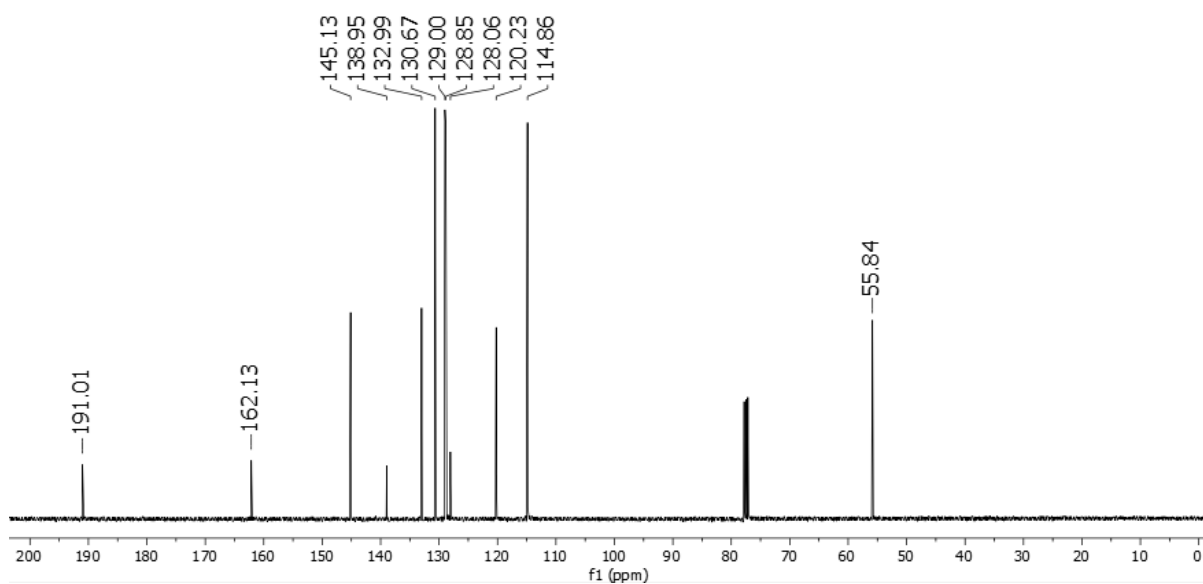


Figure S2. ¹³C NMR (101 MHz, CDCl₃) spectrum of compound 1.

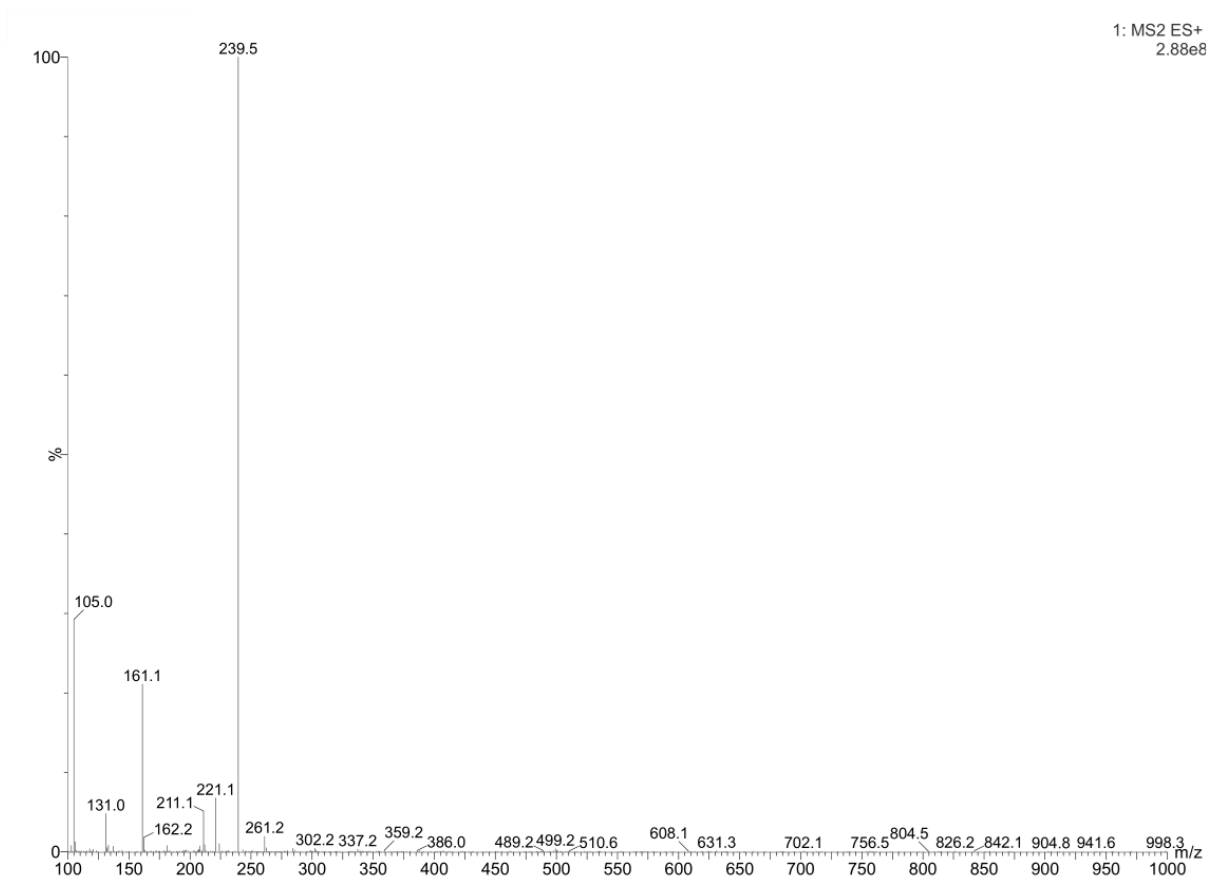


Figure S3. Mass spectrum of compound **1**.

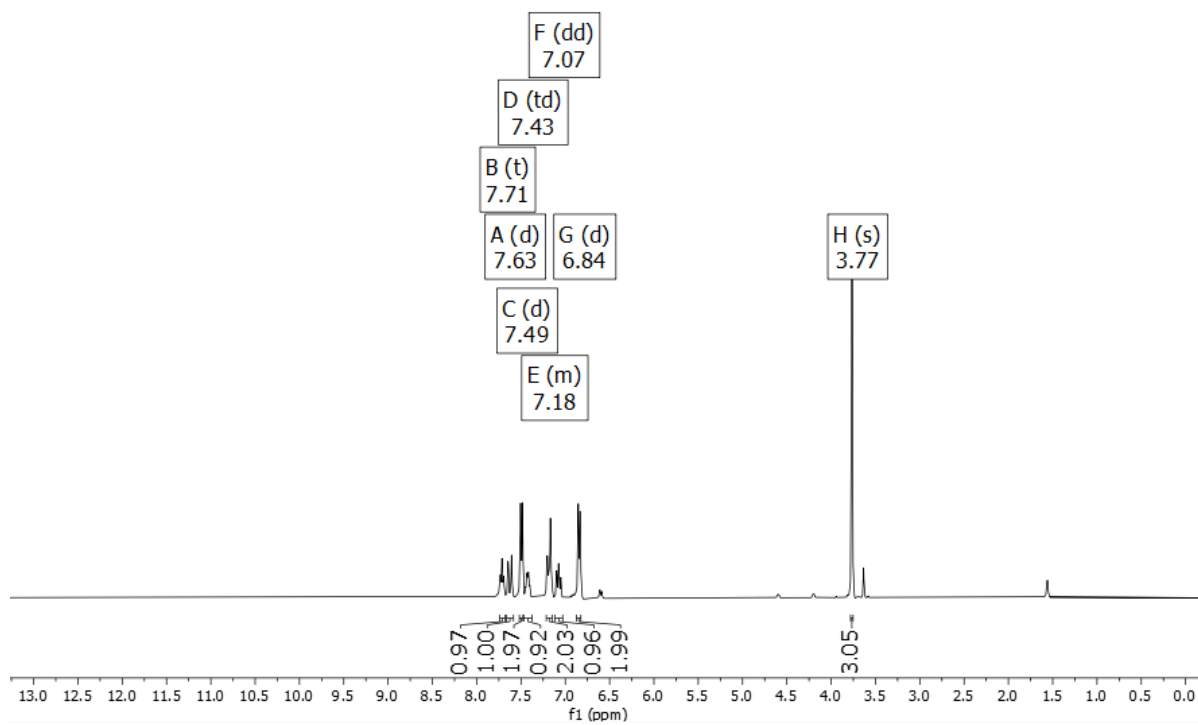
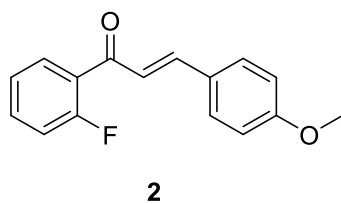


Figure S4. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **2**.

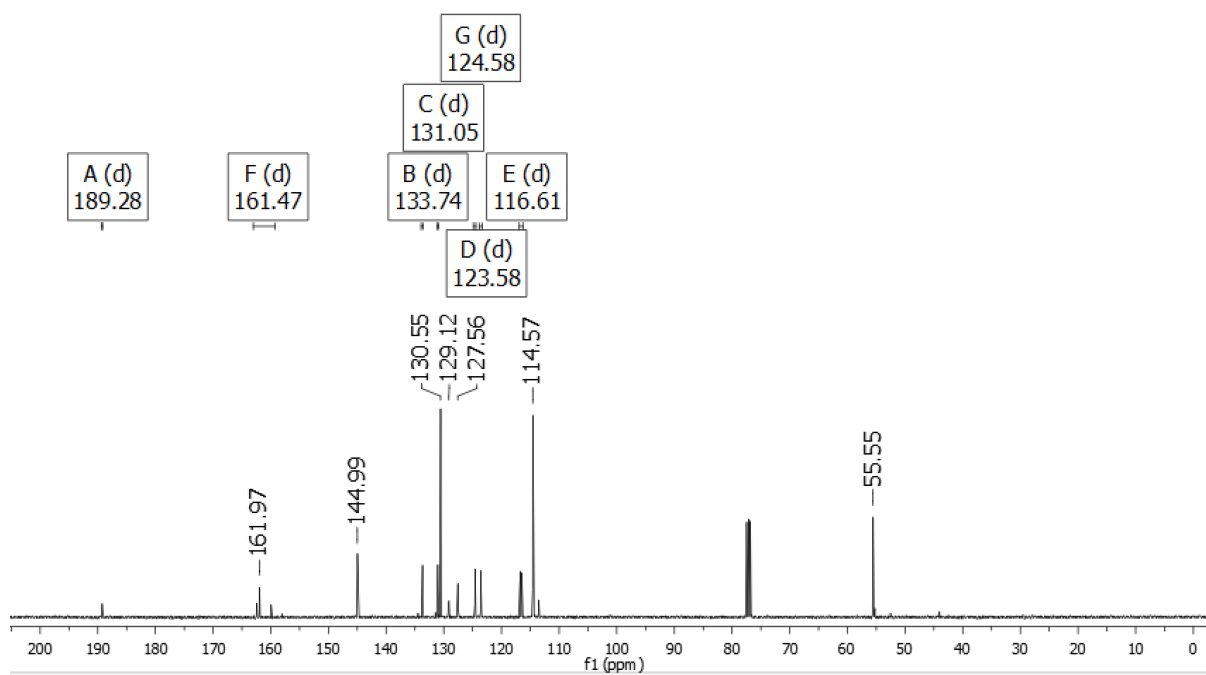


Figure S5. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **2**.

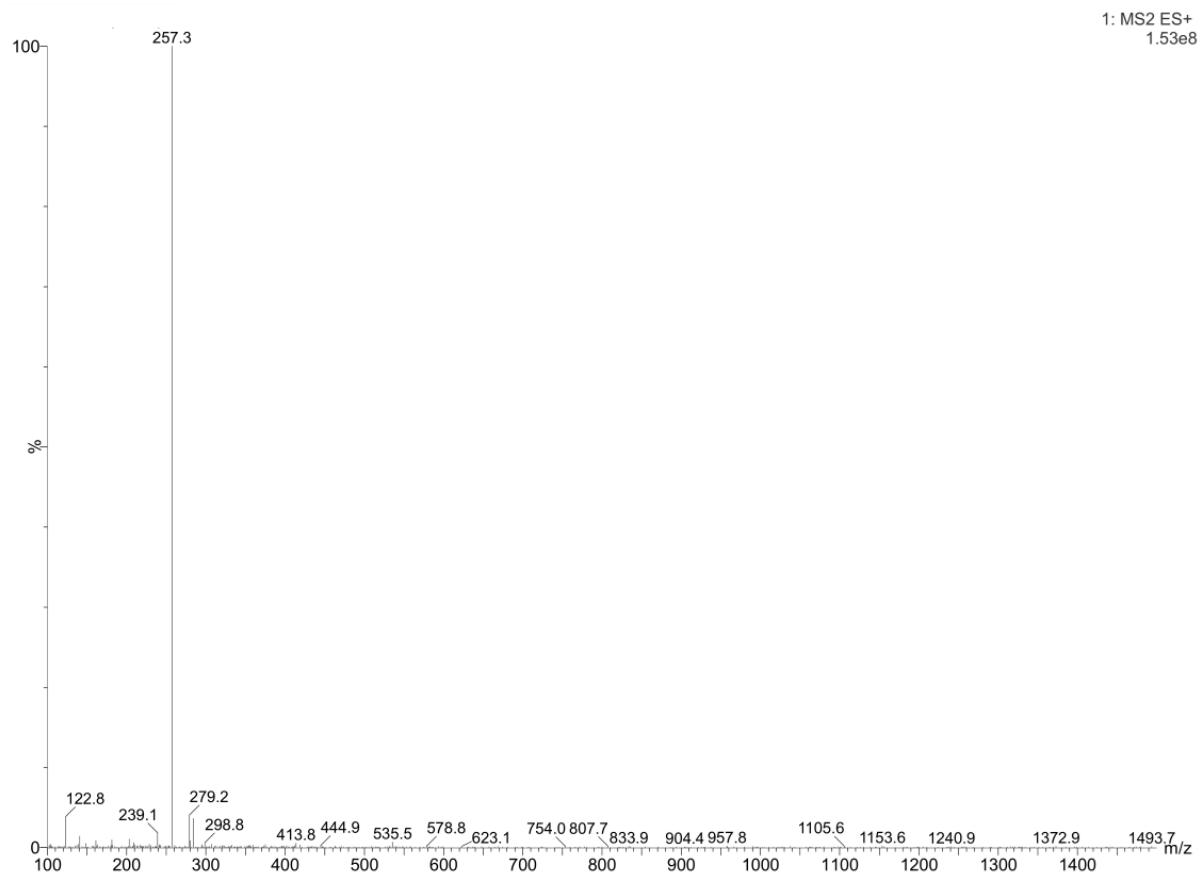


Figure S6. Mass spectrum of compound **2**.

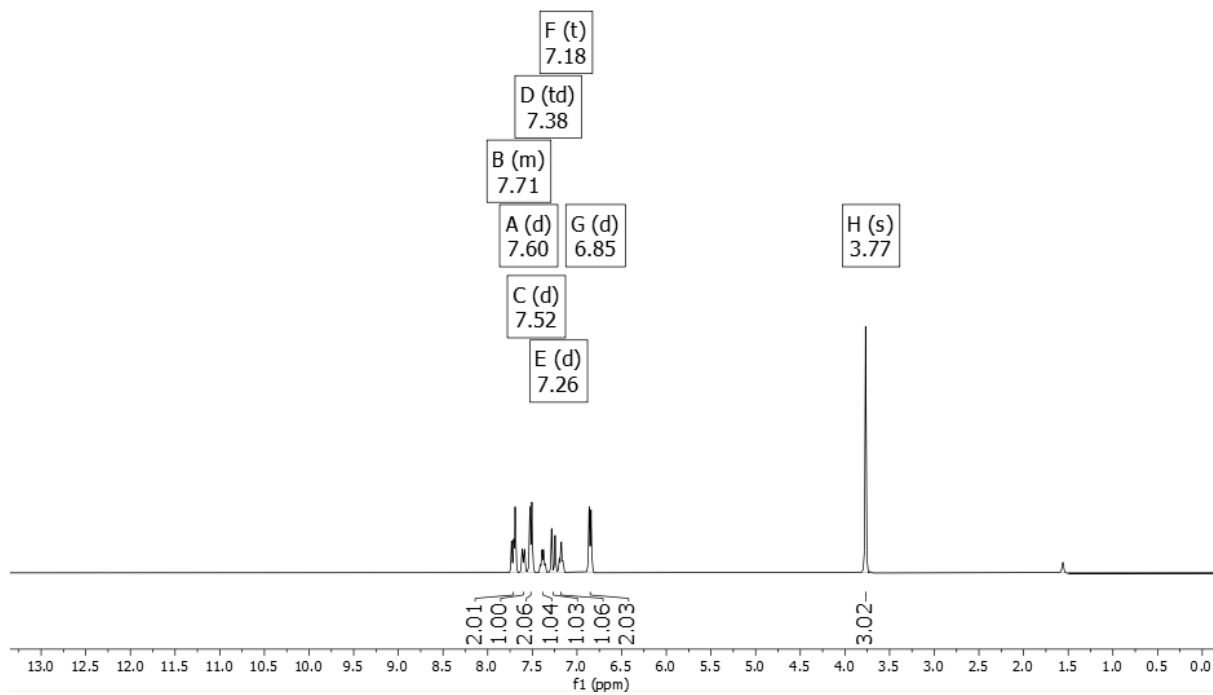
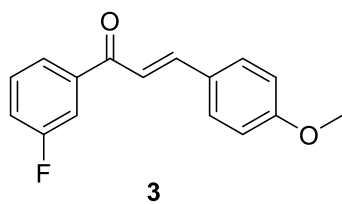


Figure S7. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **3**.

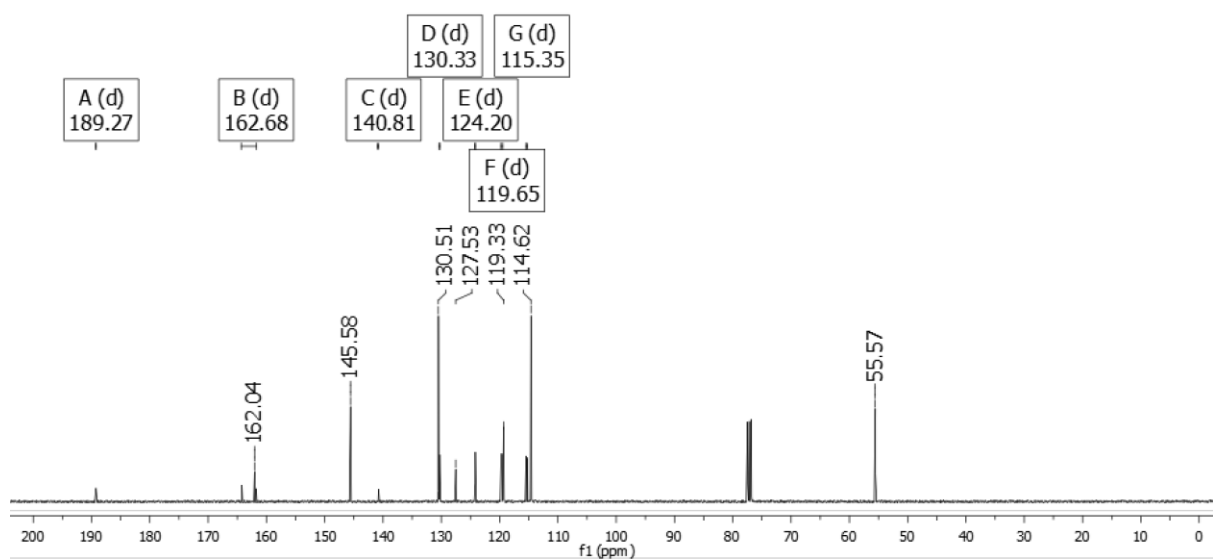


Figure S8. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **3**.

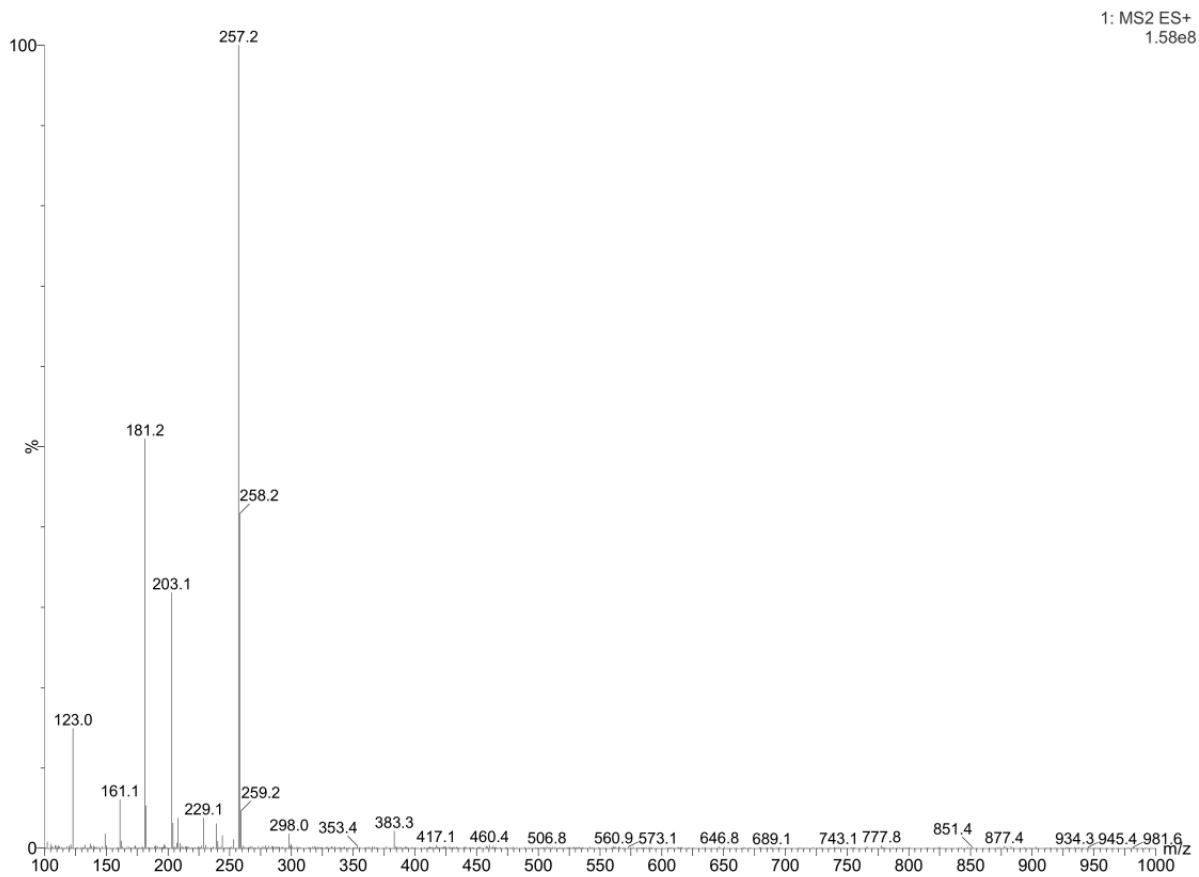


Figure S9. Mass spectrum of compound **3**.

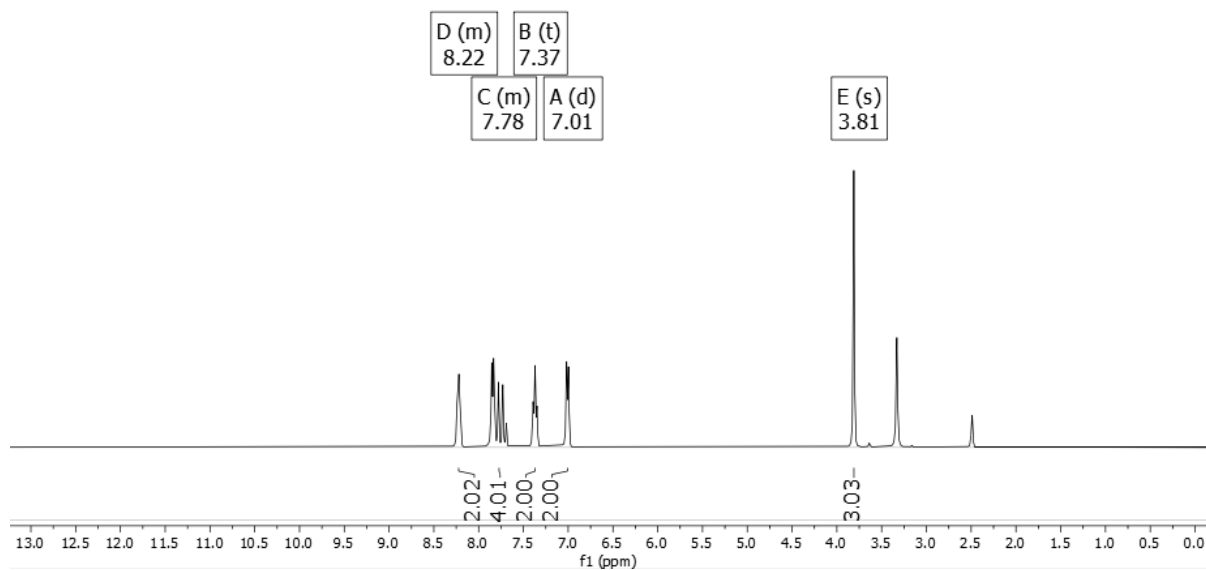
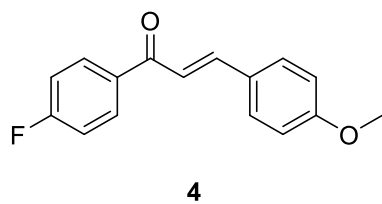


Figure S10. ^1H NMR (400 MHz, $\text{DMSO-}d_6$) spectrum of compound **4**.

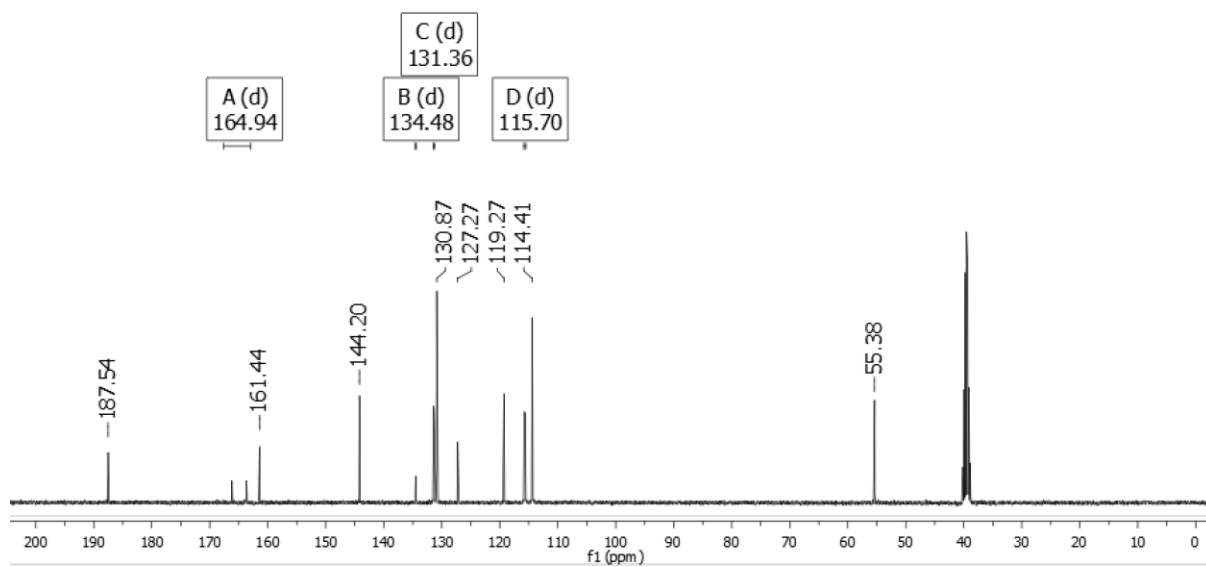


Figure S11. ^{13}C NMR (101 MHz, $\text{DMSO-}d_6$) spectrum of compound **4**.

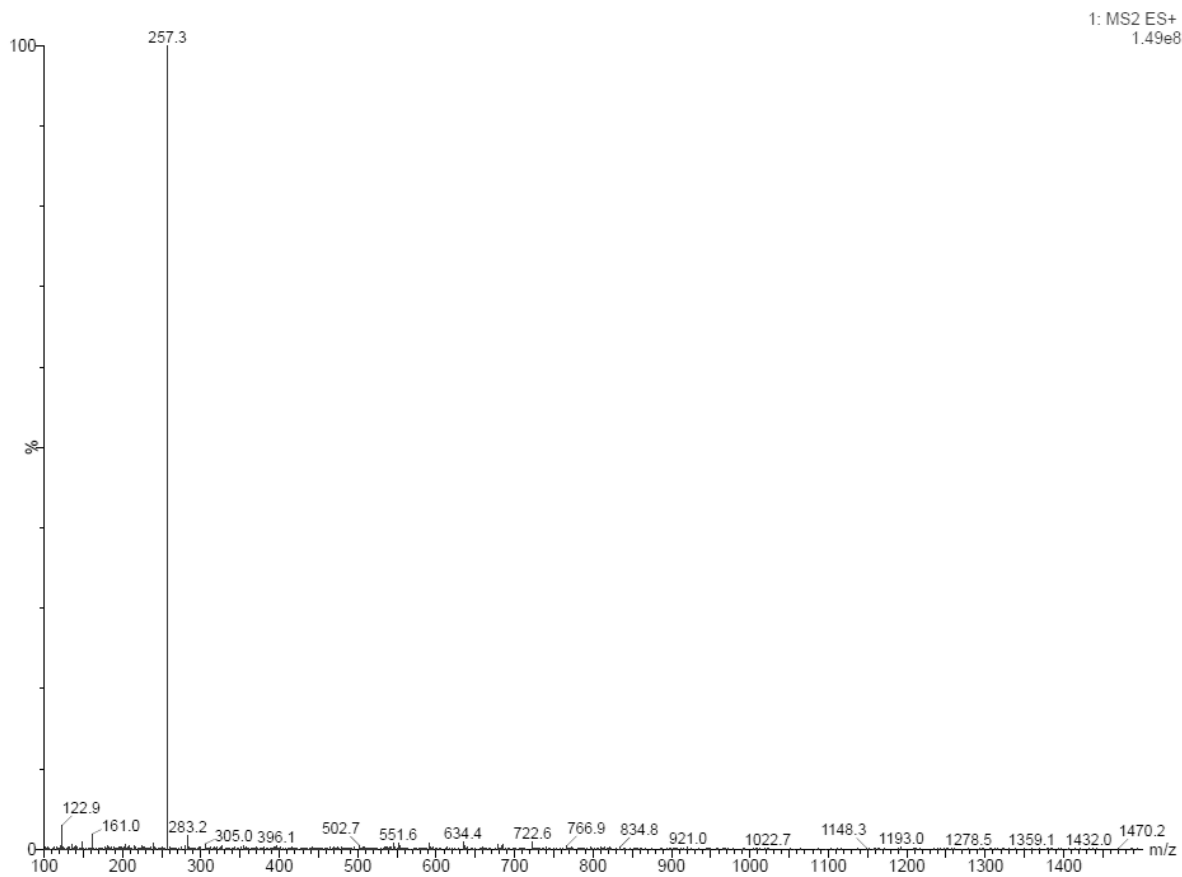
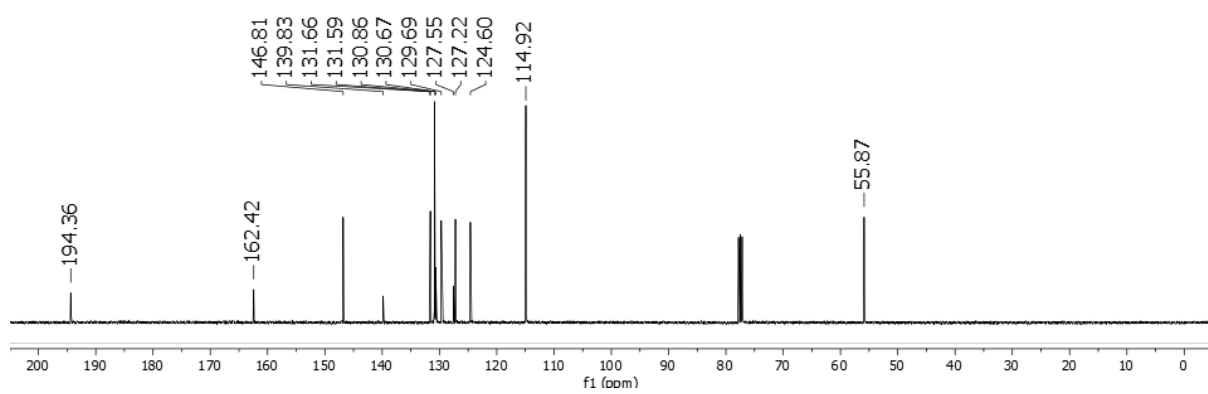
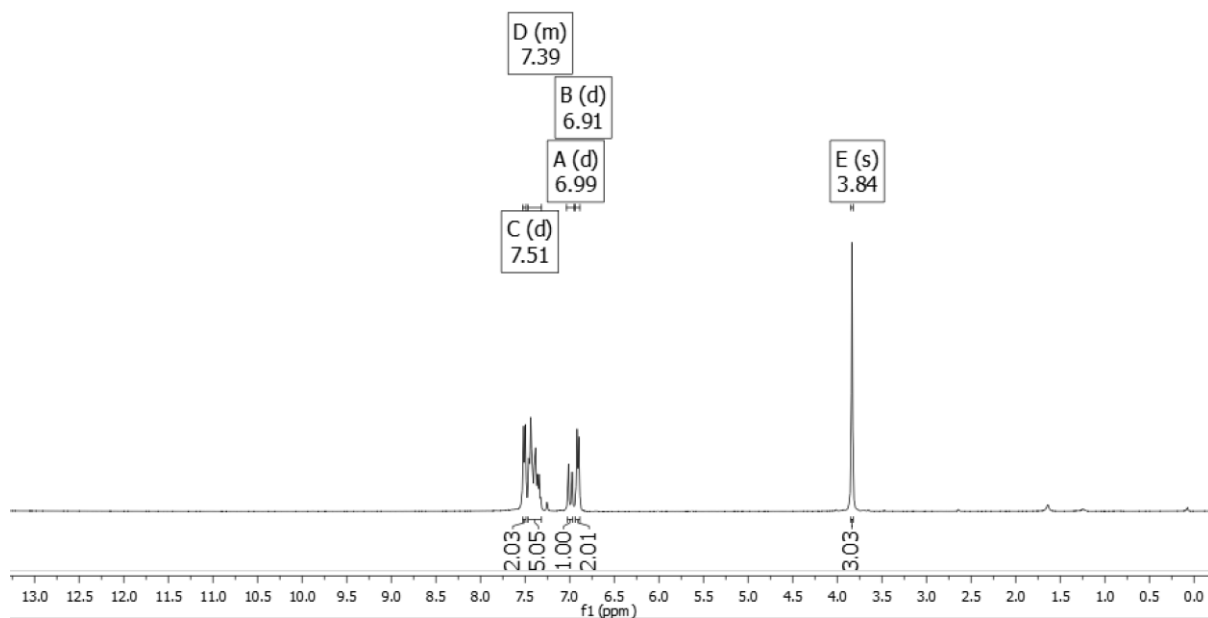
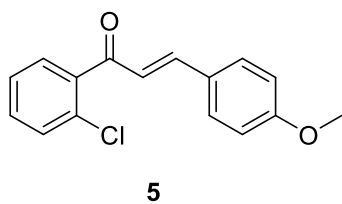


Figure S12. Mass spectrum of compound 4.



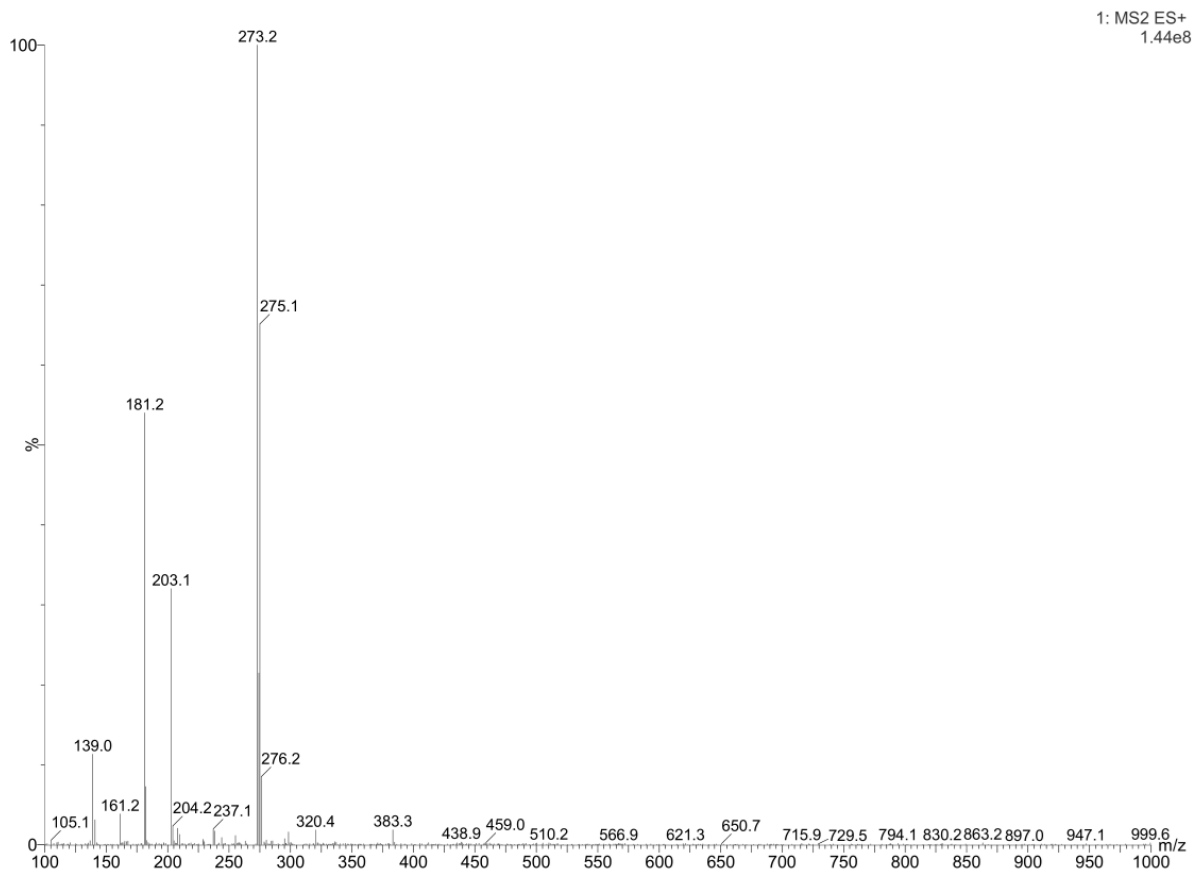


Figure S15. Mass spectrum of compound **5**.

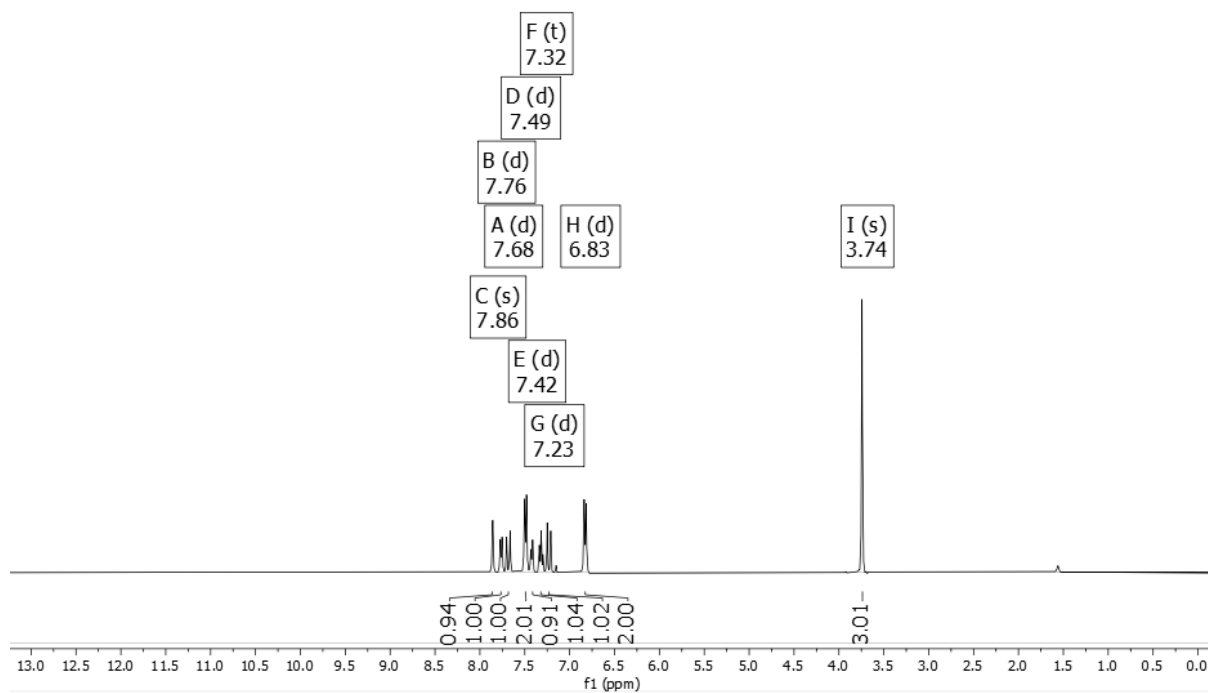
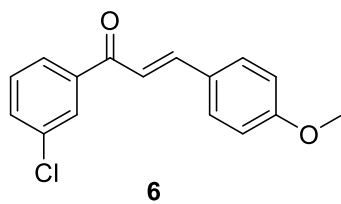


Figure S16. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **6**.

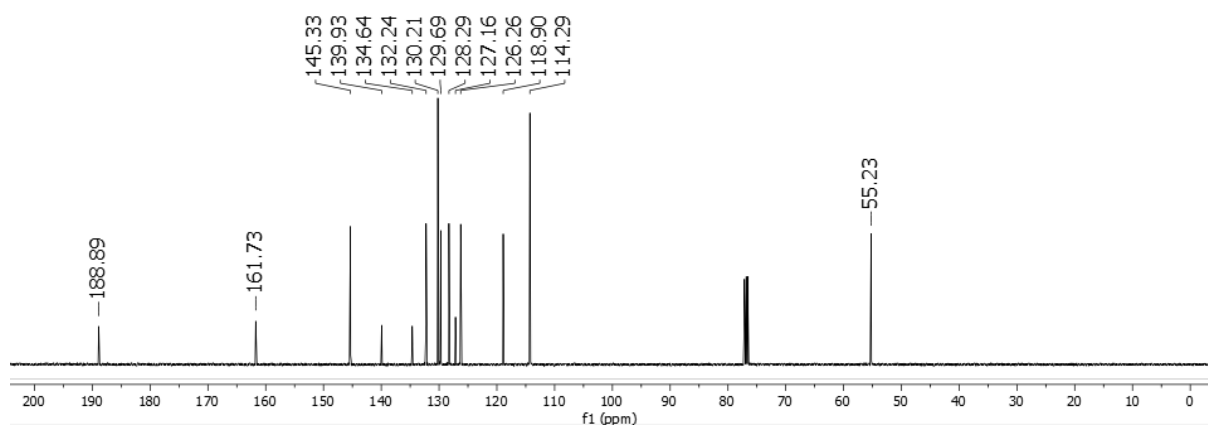


Figure S17. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **6**.

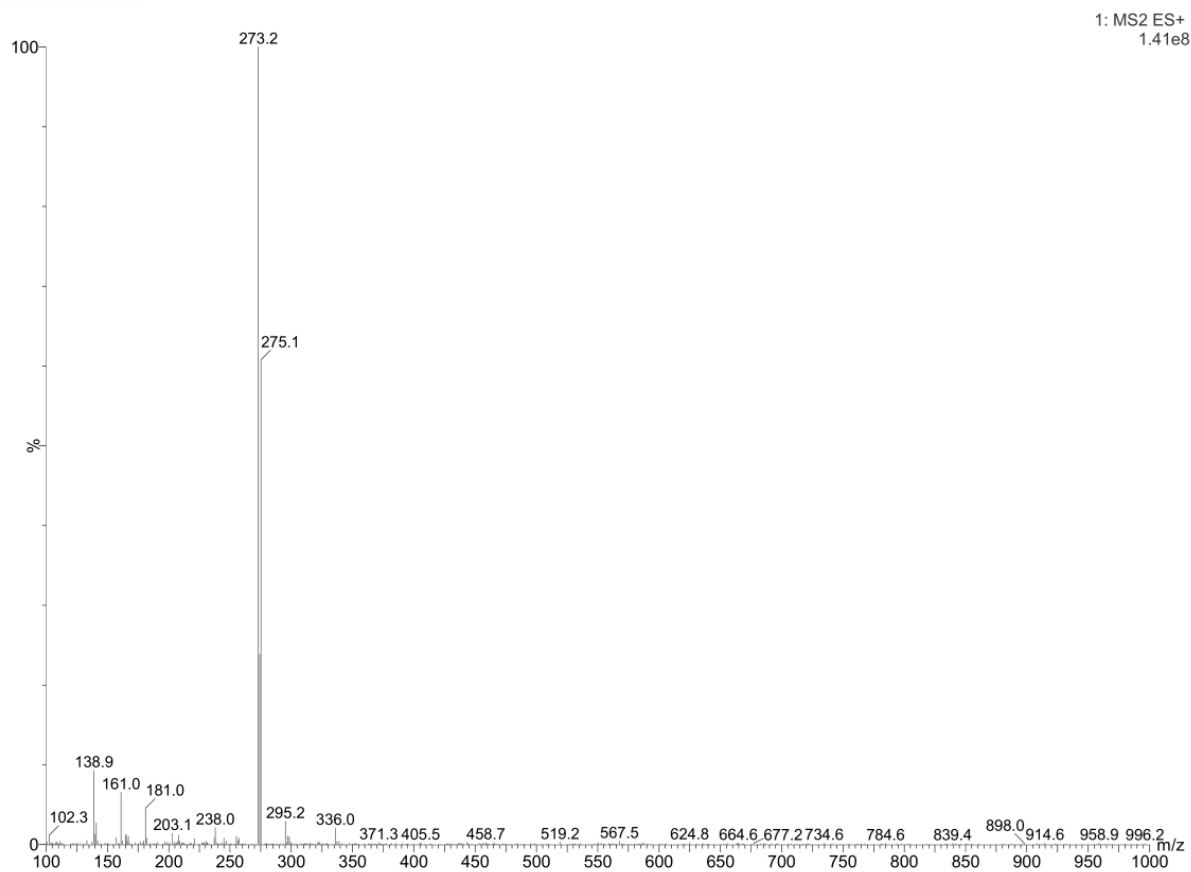
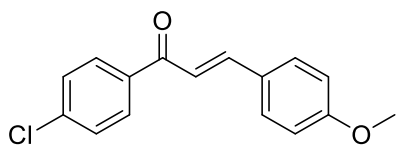


Figure S18. Mass spectrum of compound **6**.



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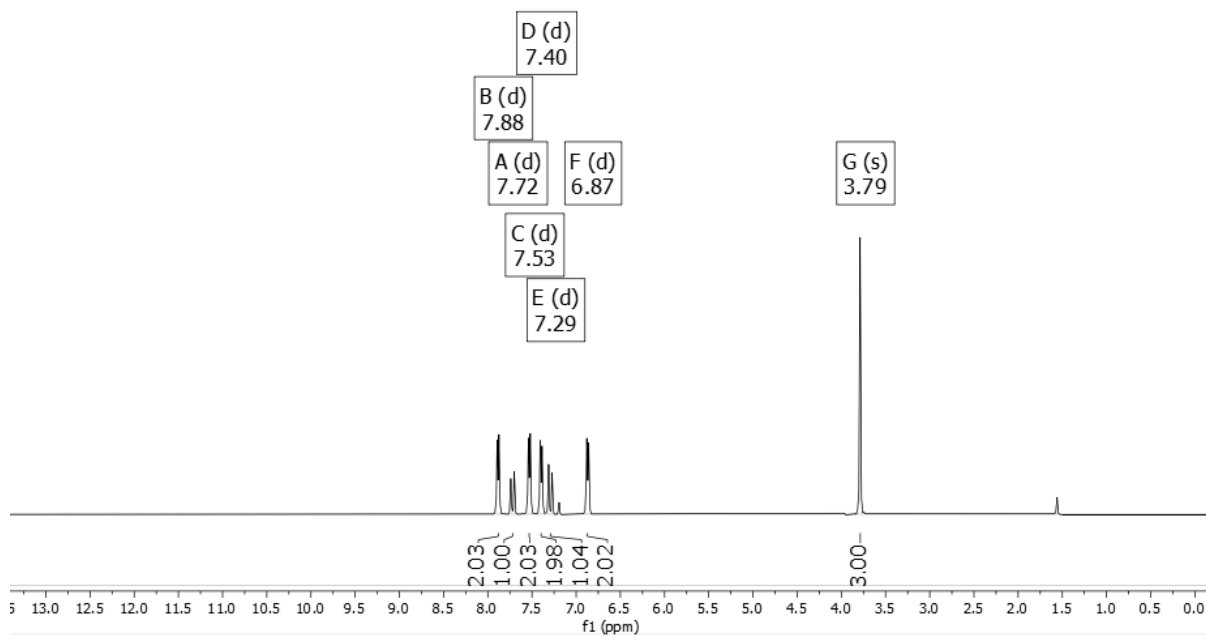


Figure S19. ^1H NMR (400 MHz, CDCl_3) spectrum of compound 7.

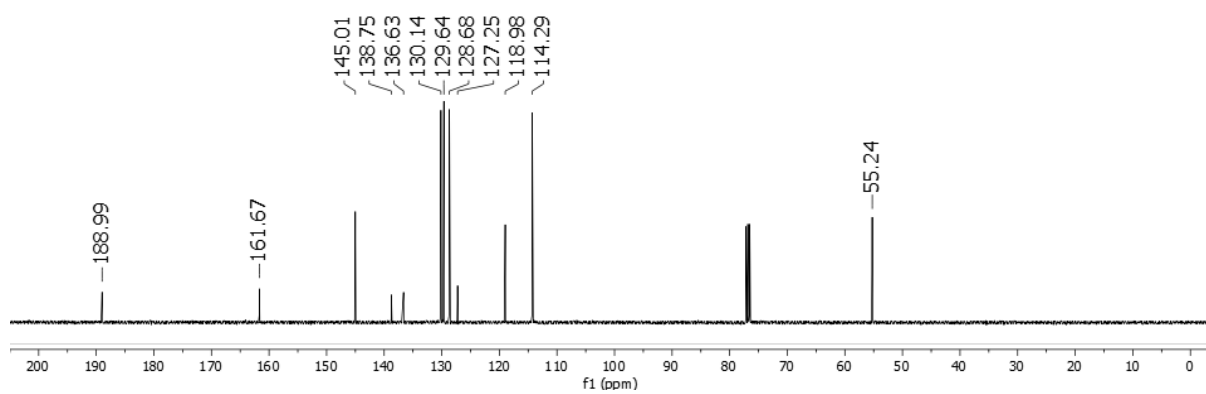


Figure S20. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound 7.

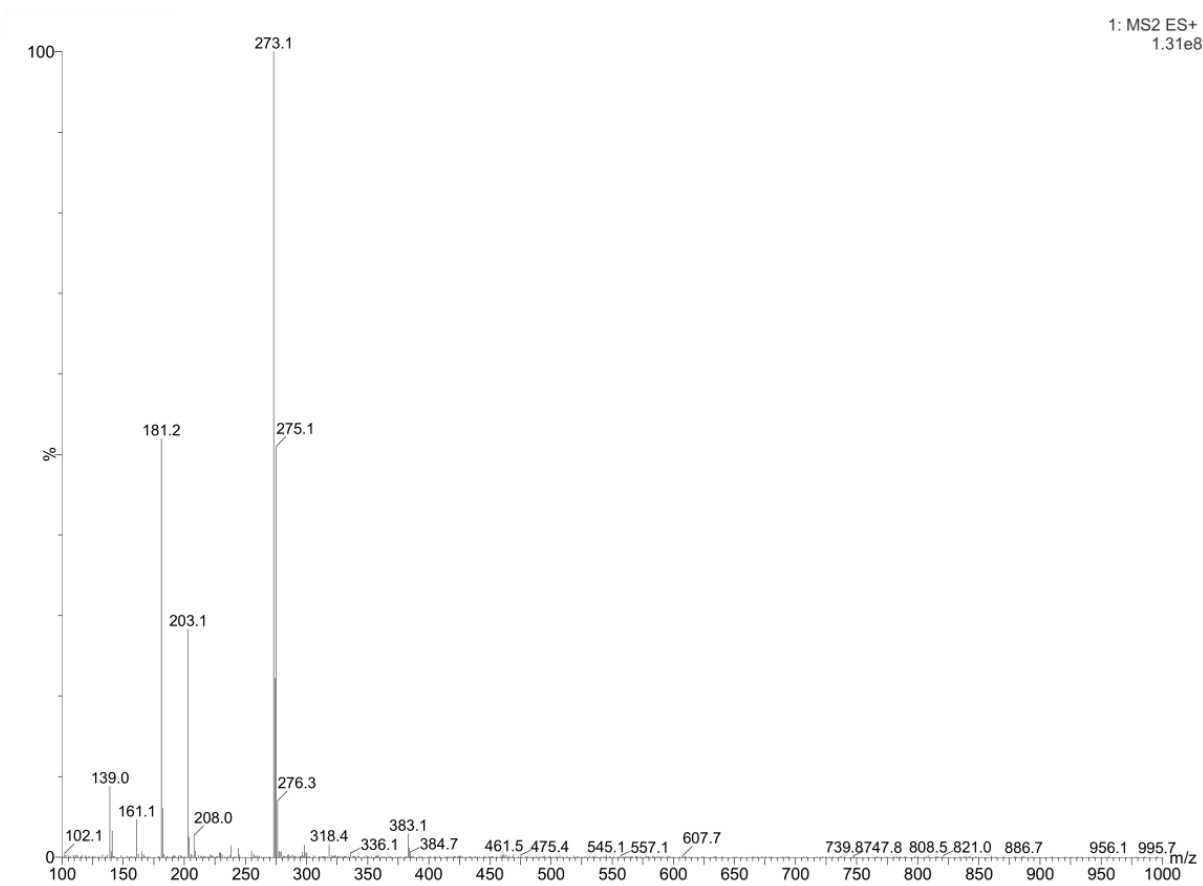


Figure S21. Mass spectrum of compound 7.

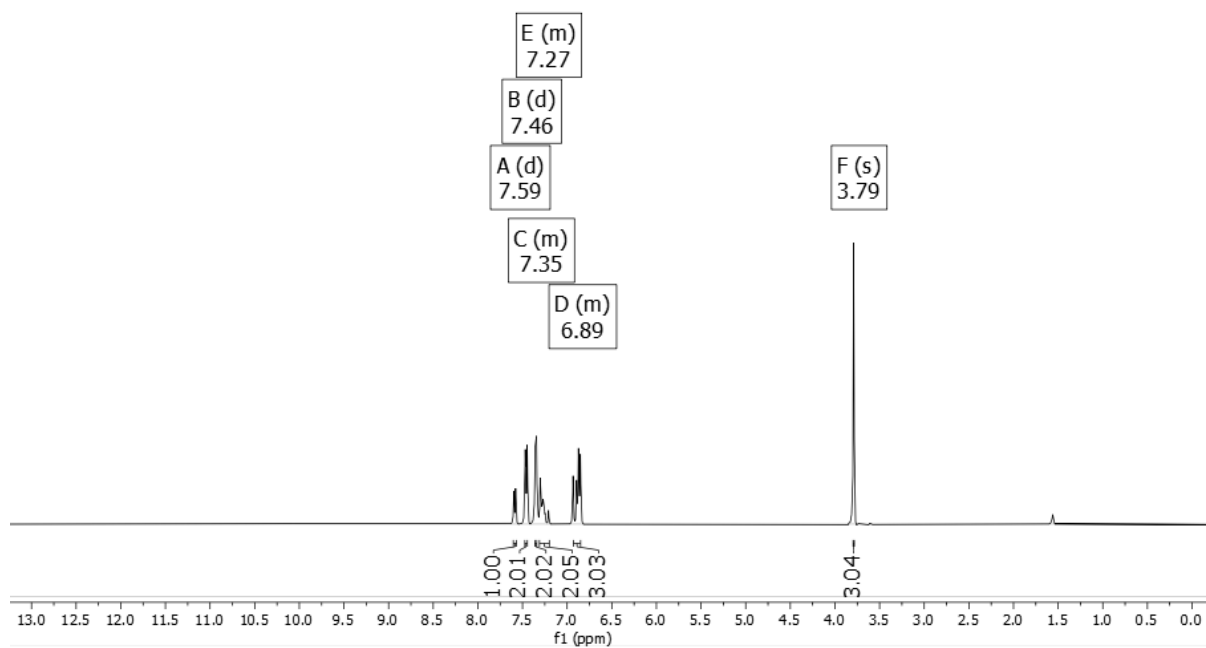
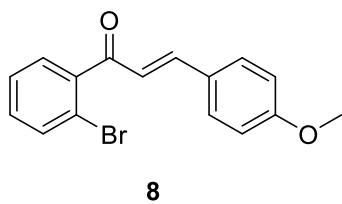


Figure S22. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **8**.

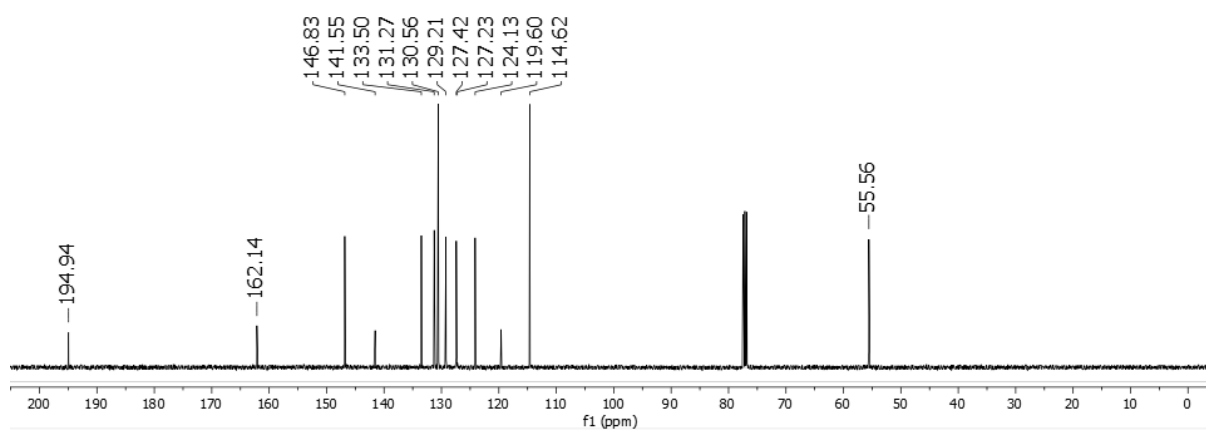


Figure S23. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **8**.

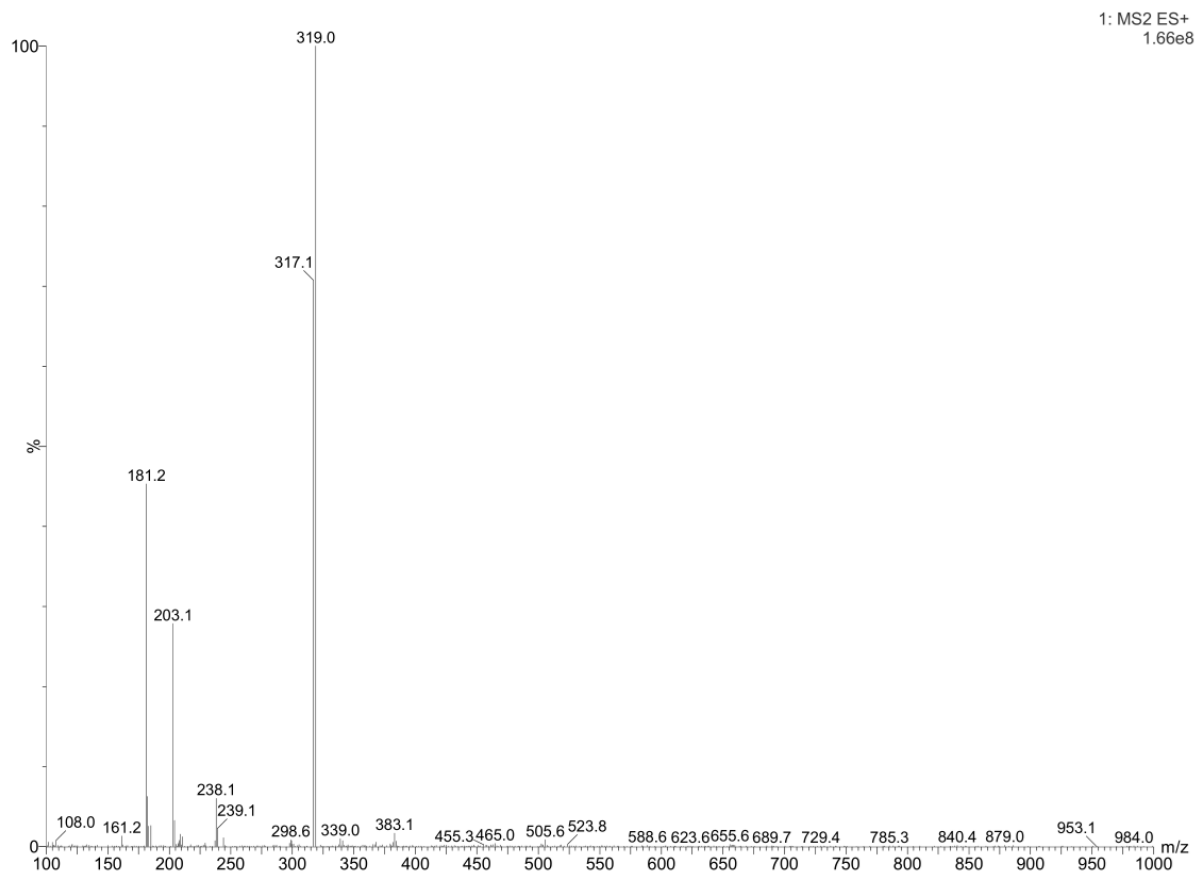


Figure S24. Mass spectrum of compound 8.

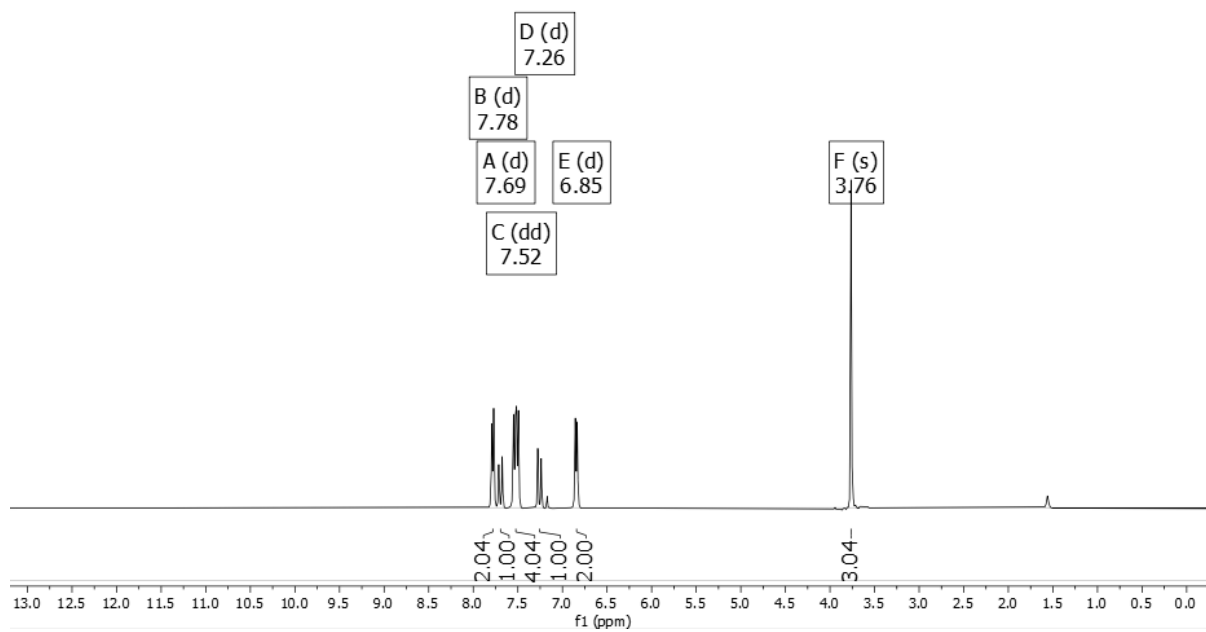
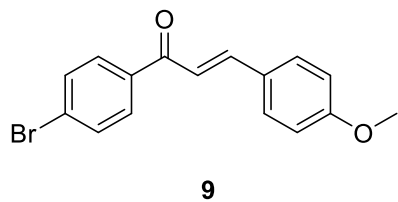


Figure S25. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **9**.

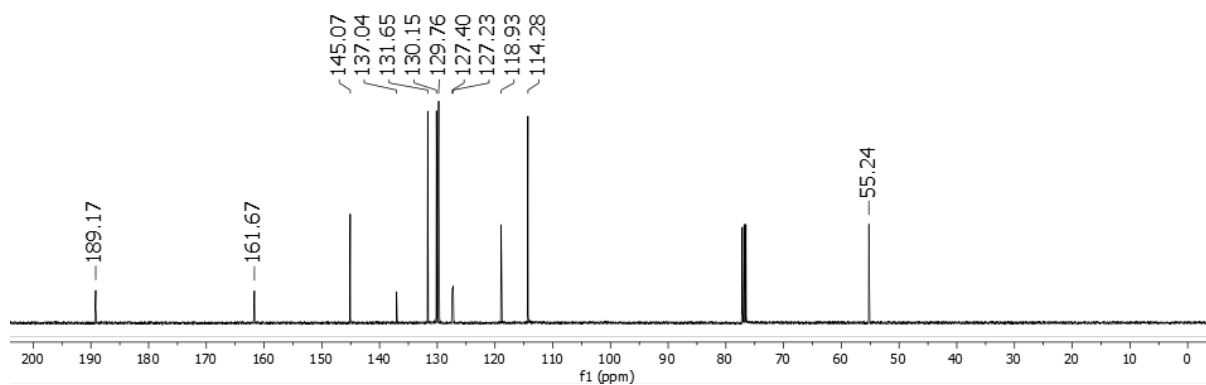


Figure S26. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **9**.

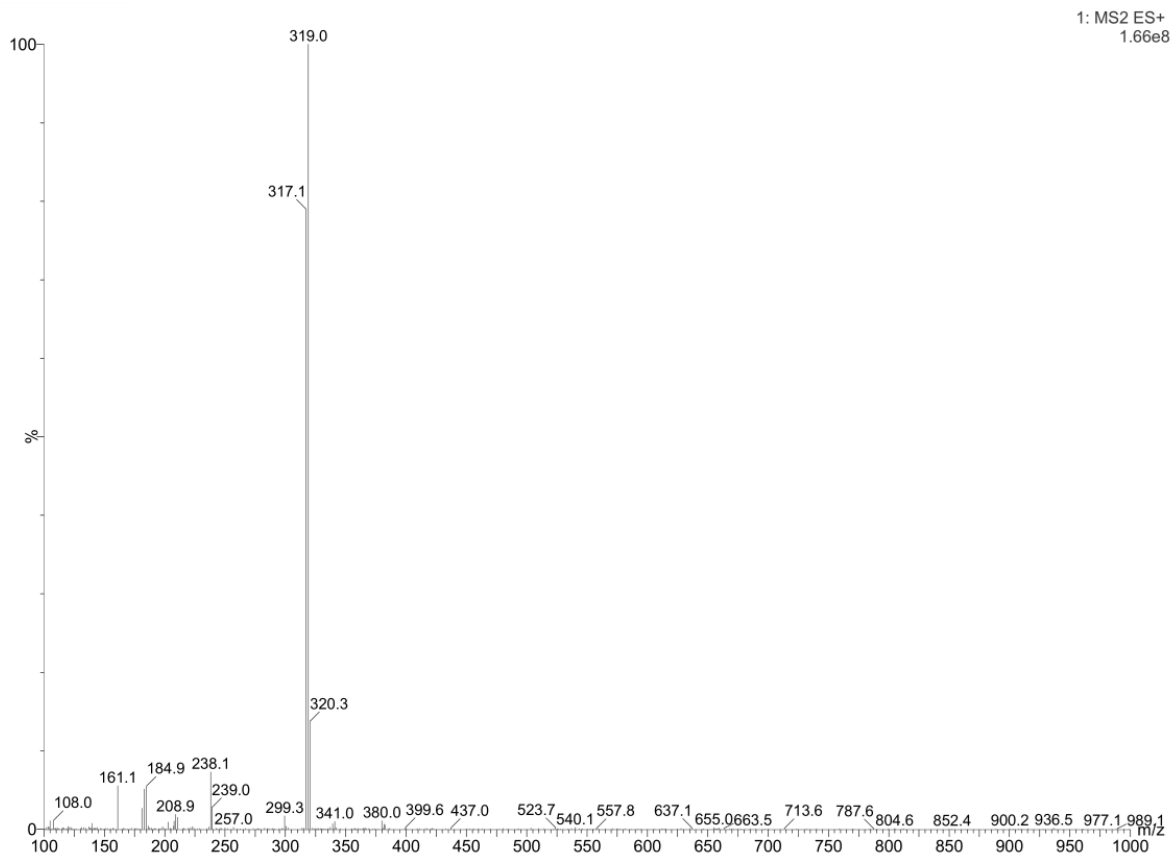


Figure S27. Mass spectrum of compound **9**.

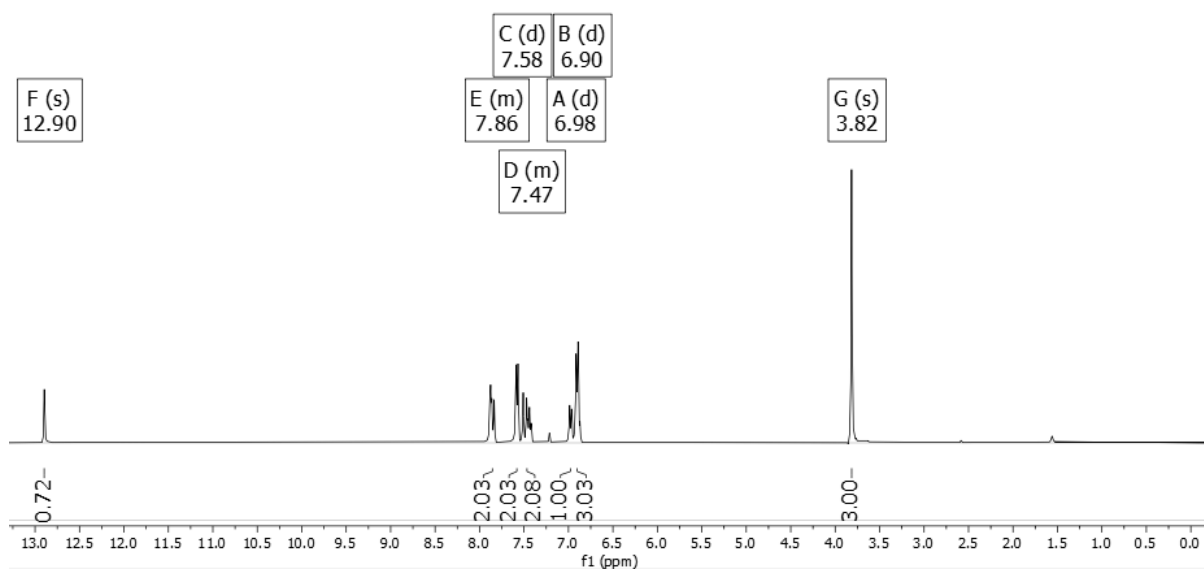
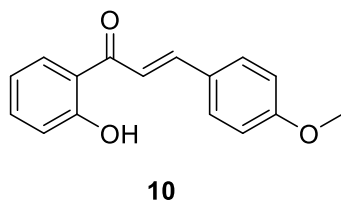


Figure S28. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **10**.

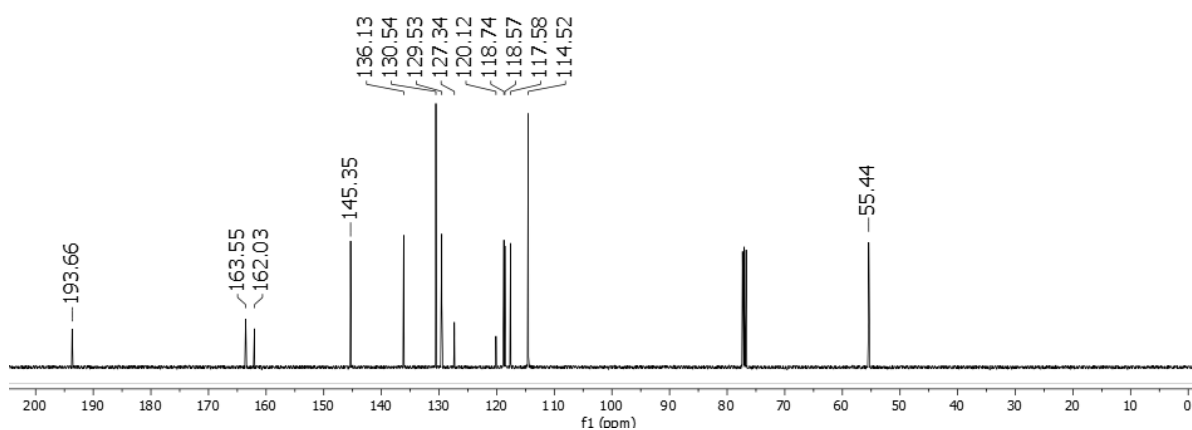


Figure S29. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **10**.

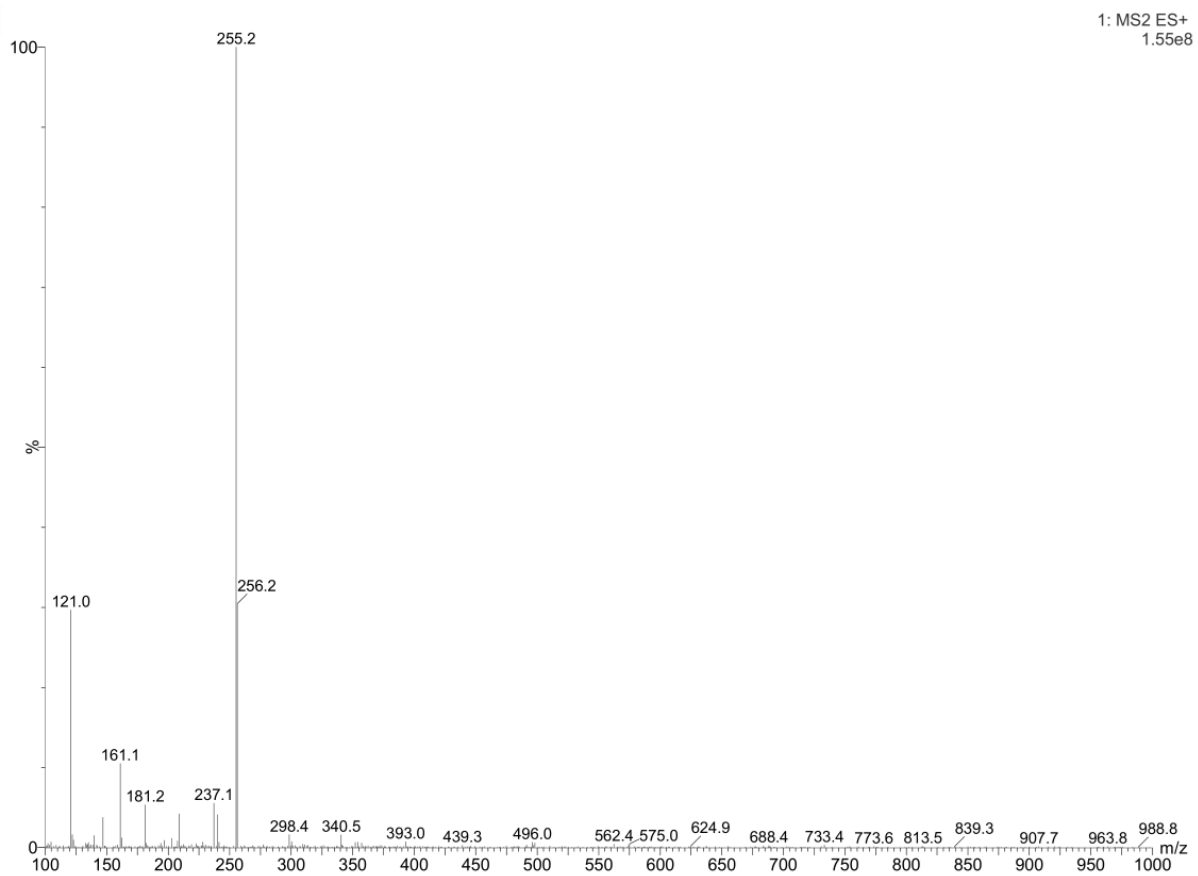


Figure S30. Mass spectrum of compound **10**.

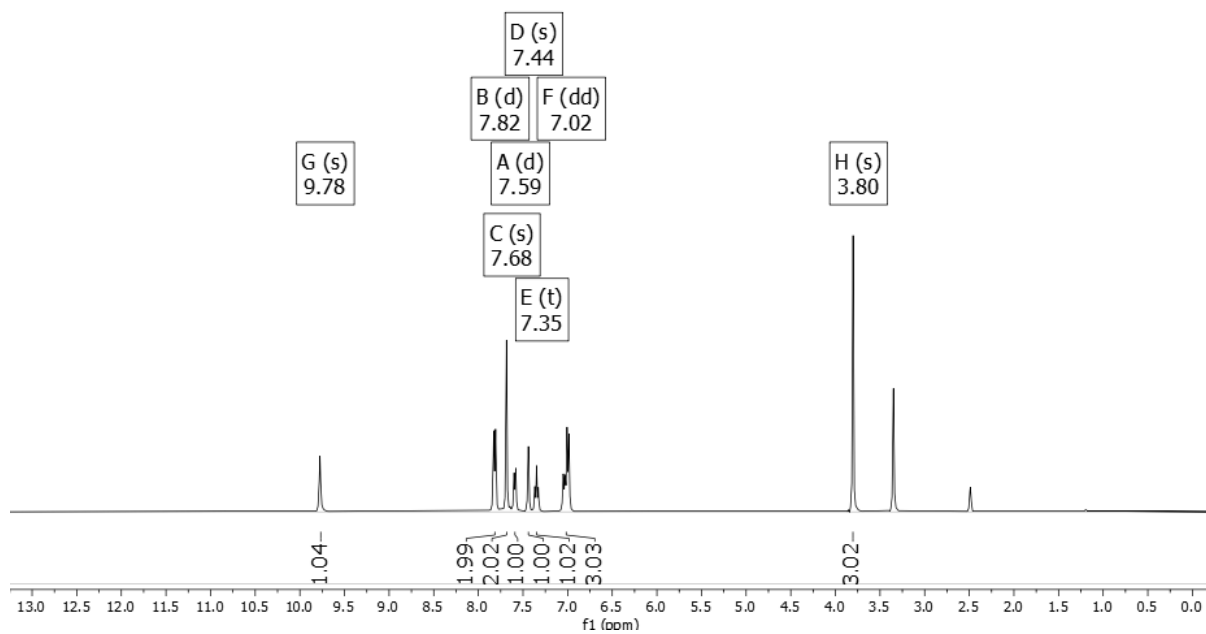
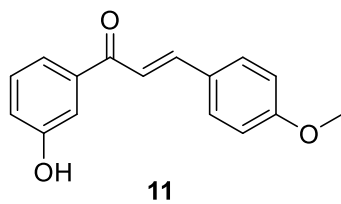


Figure S31. ^1H NMR (400 MHz, $\text{DMSO-}d_6$) spectrum of compound **11**.

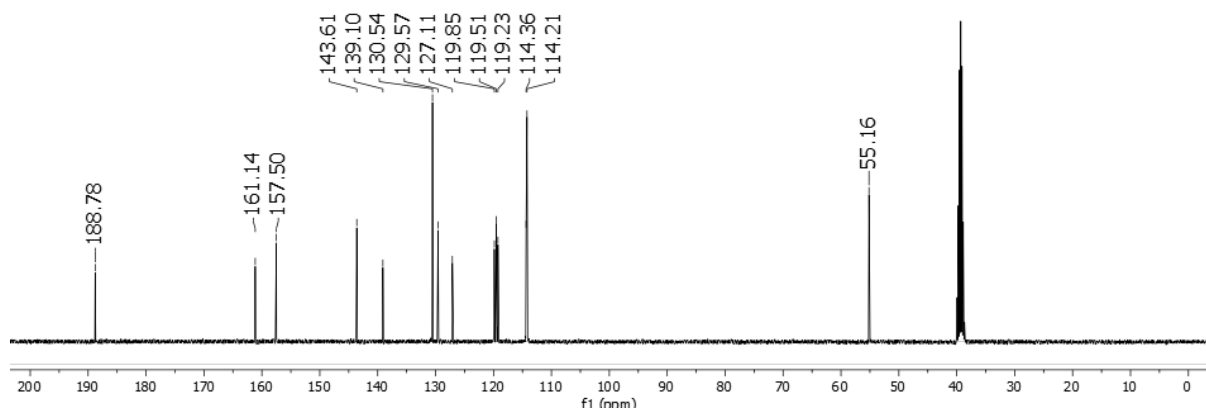


Figure S32. ^{13}C NMR (101 MHz, $\text{DMSO-}d_6$) spectrum of compound **11**.

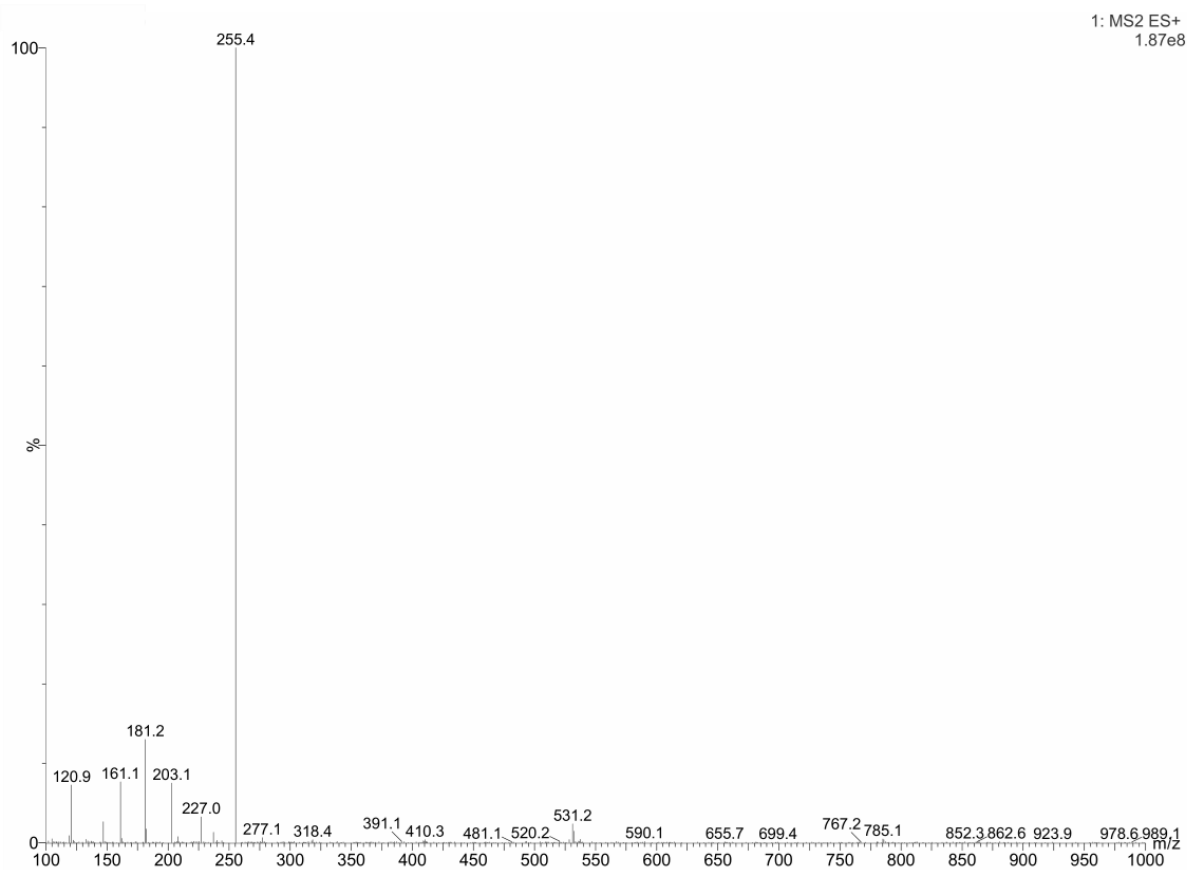
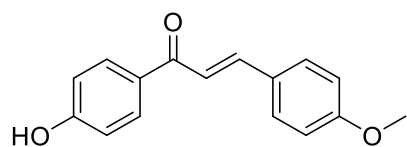


Figure S33. Mass spectrum of compound **11**.



12

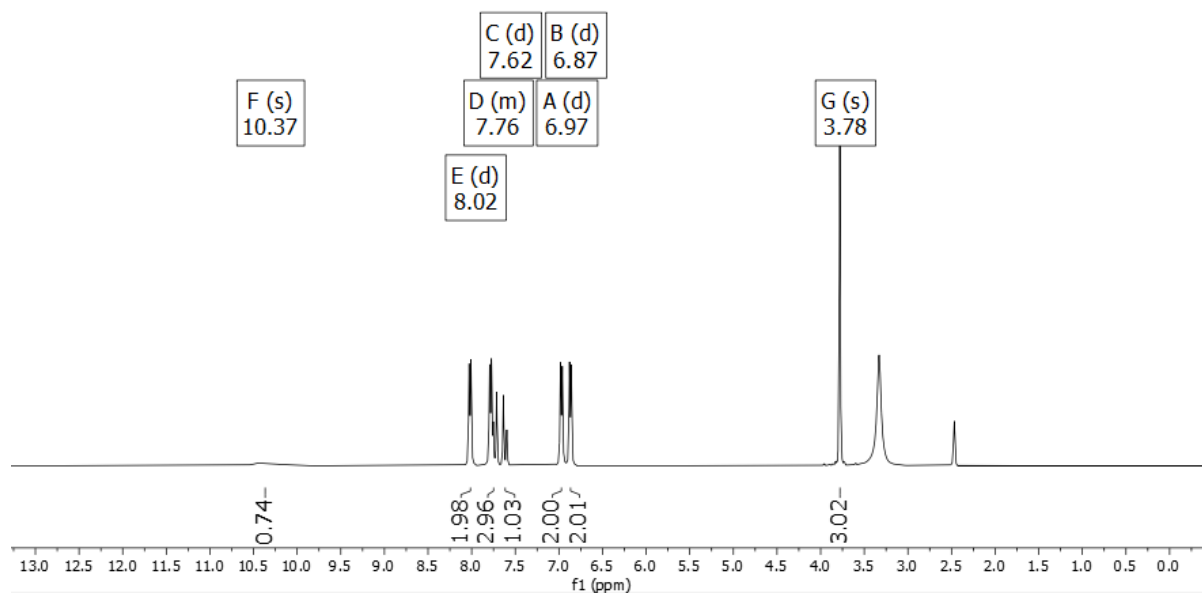


Figure S34. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of compound **12**.

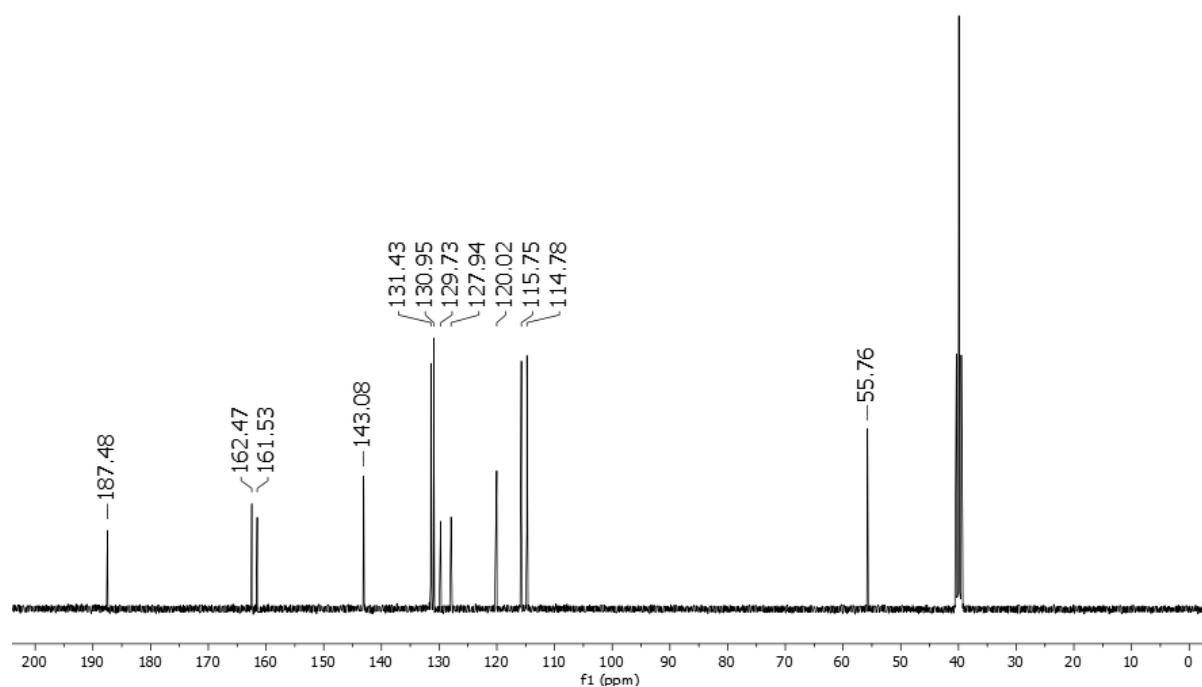


Figure S35. ¹³C NMR (101 MHz, DMSO-*d*₆) spectrum of compound **12**.

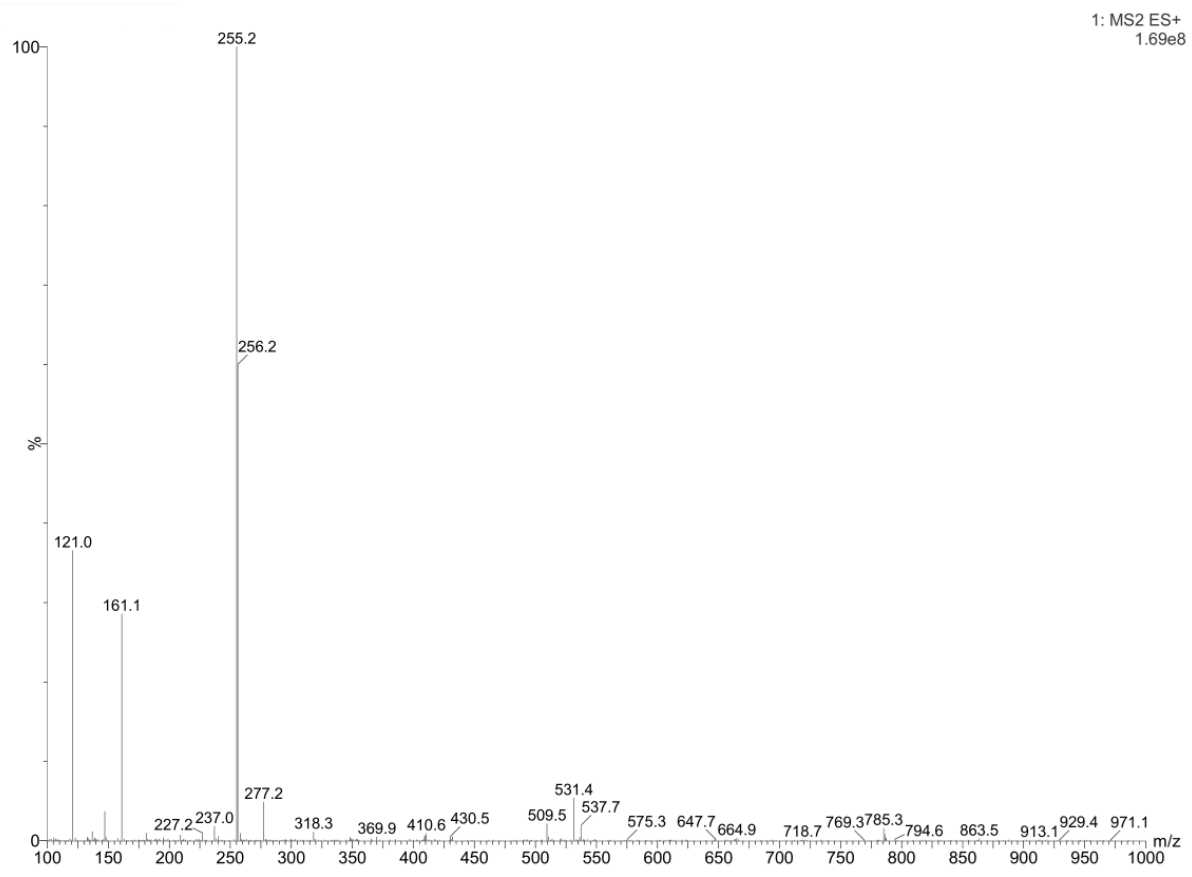
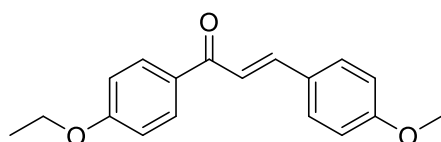
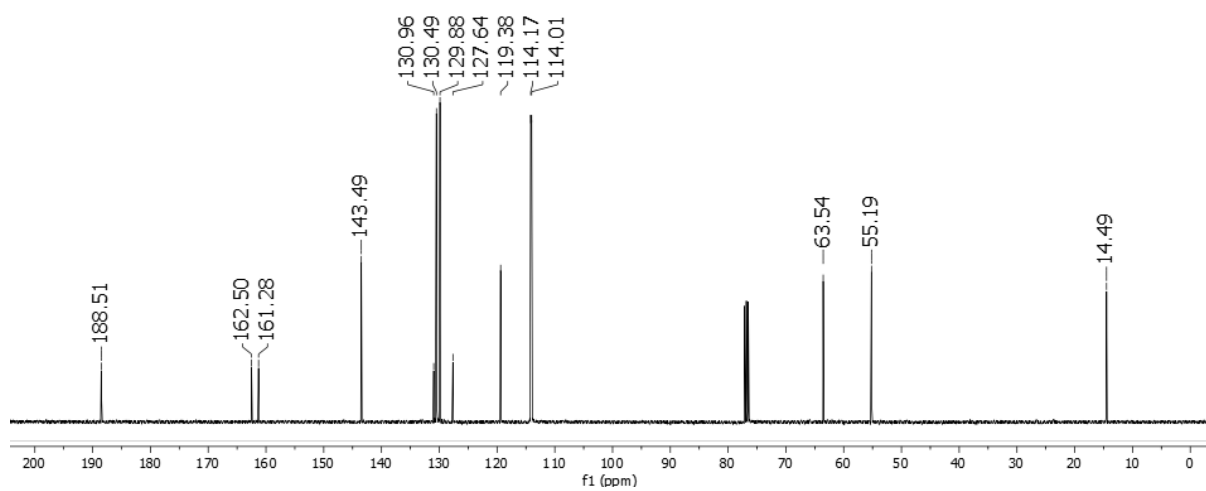
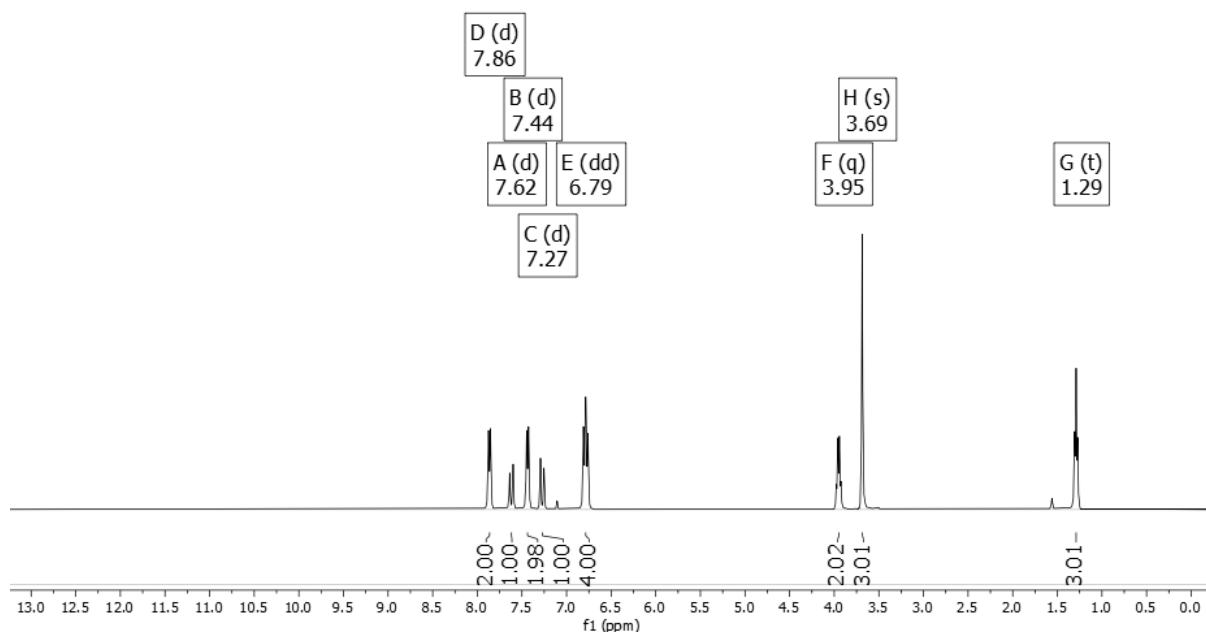


Figure S36. Mass spectrum of compound **12**.



13



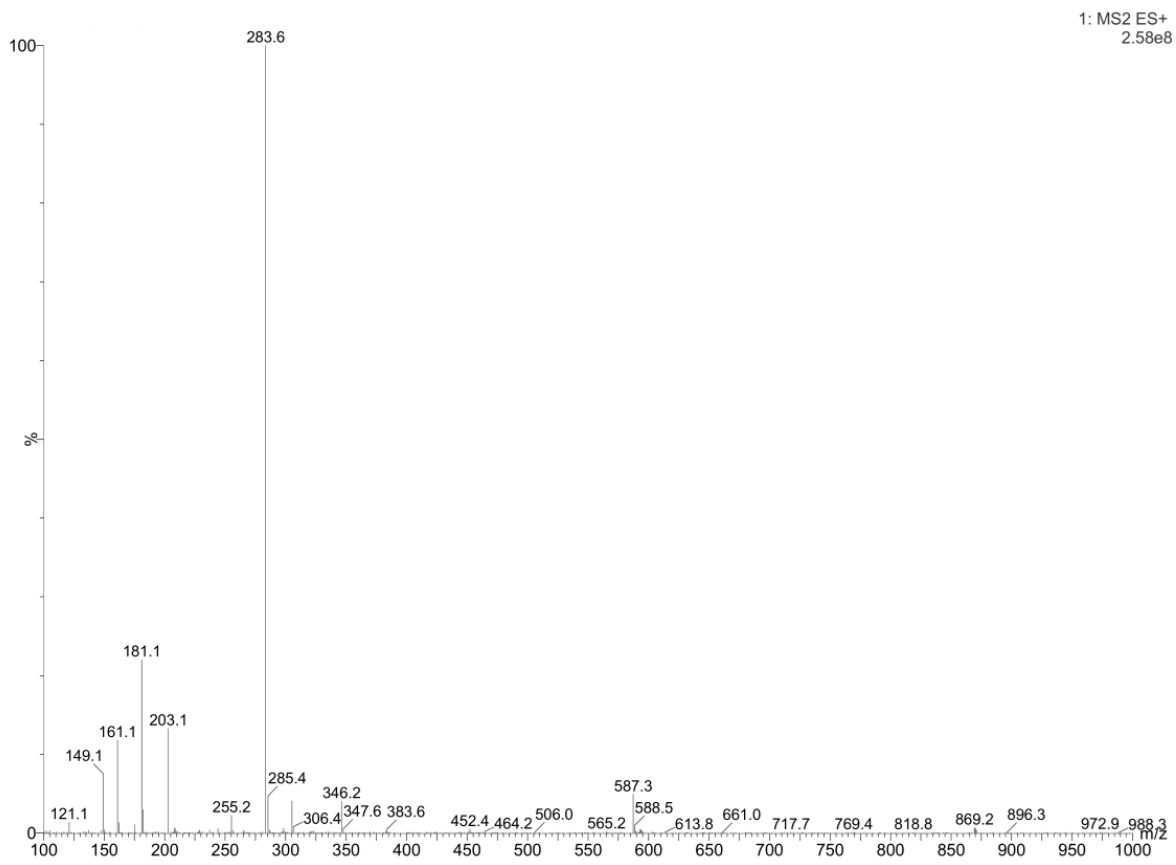
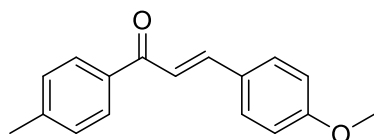


Figure S39. Mass spectrum of compound **13**.



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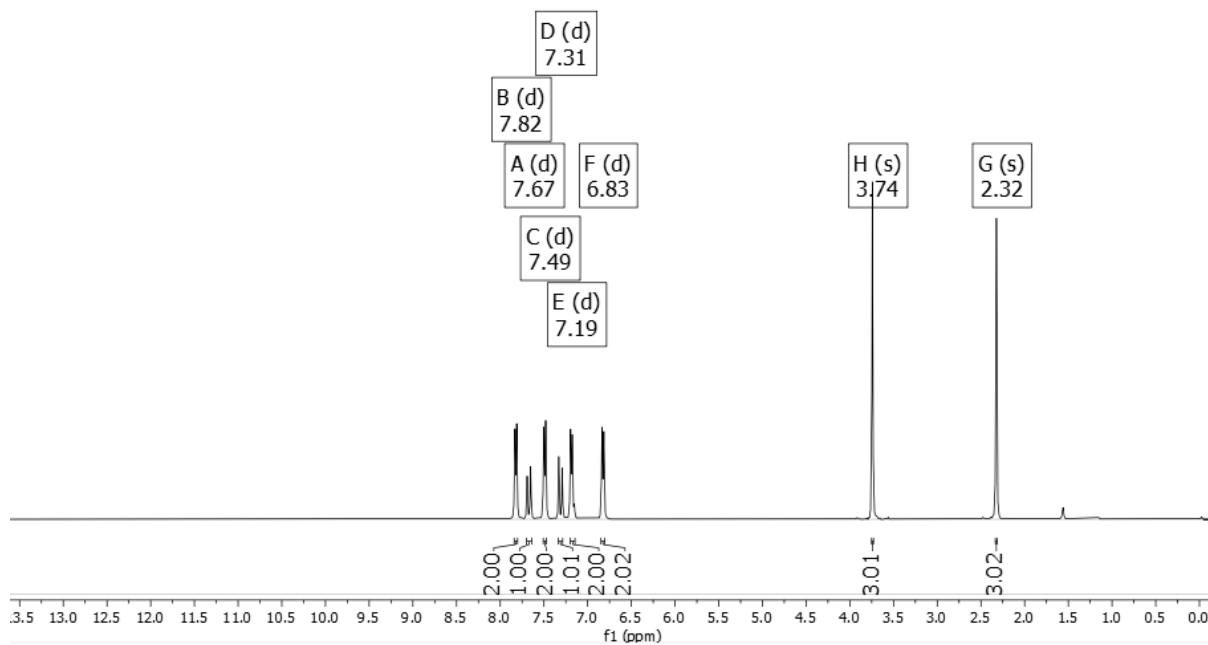


Figure S40. ^1H NMR (400 MHz, CDCl_3) spectrum of compound 14.

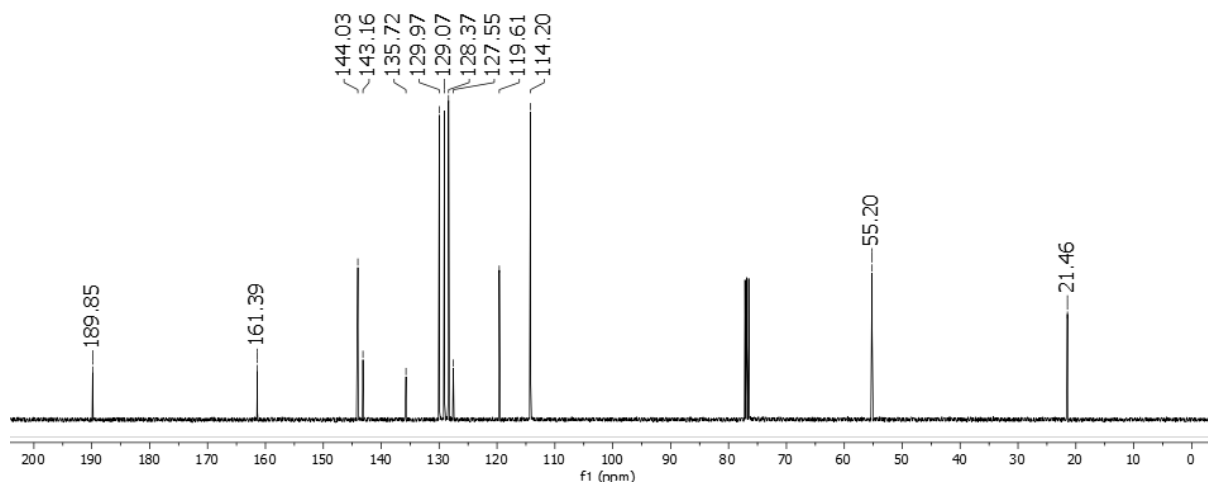


Figure S41. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound 14.

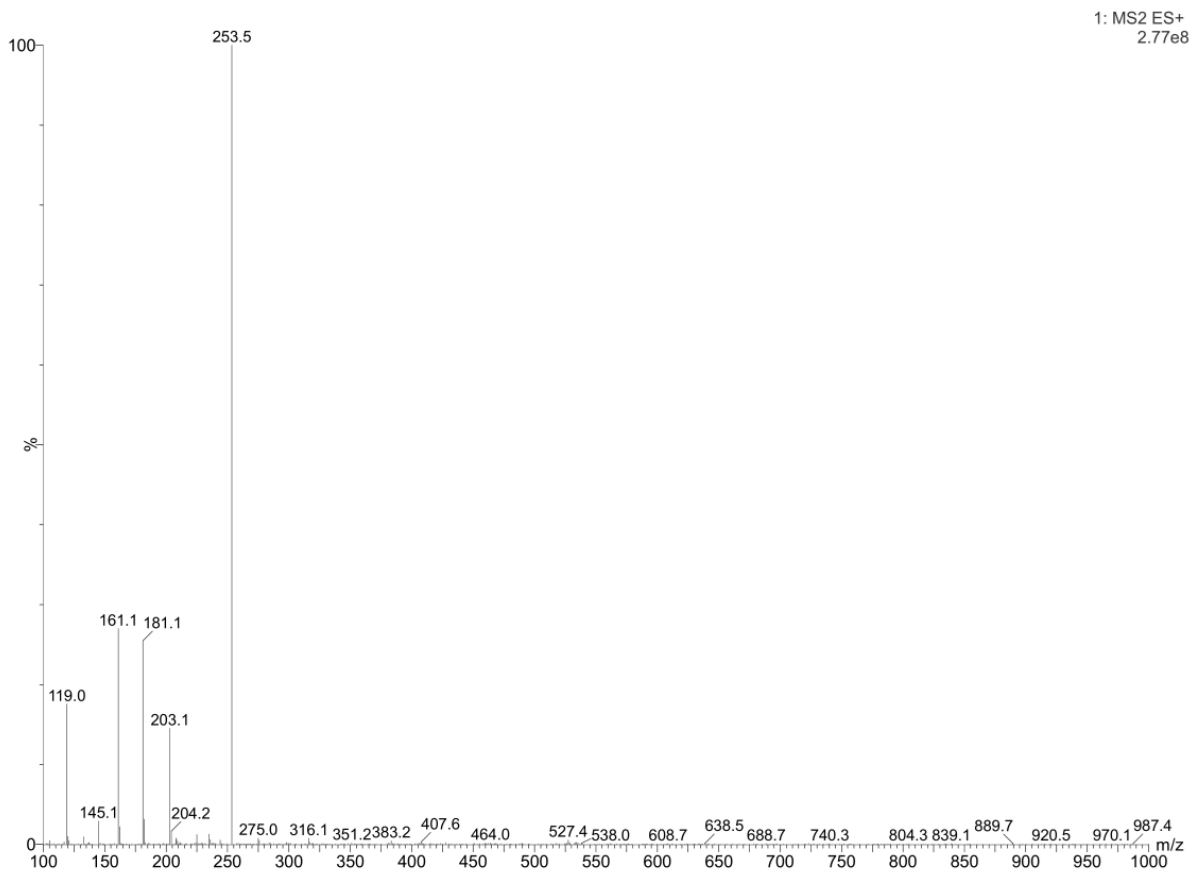


Figure S42. Mass spectrum of compound 14.

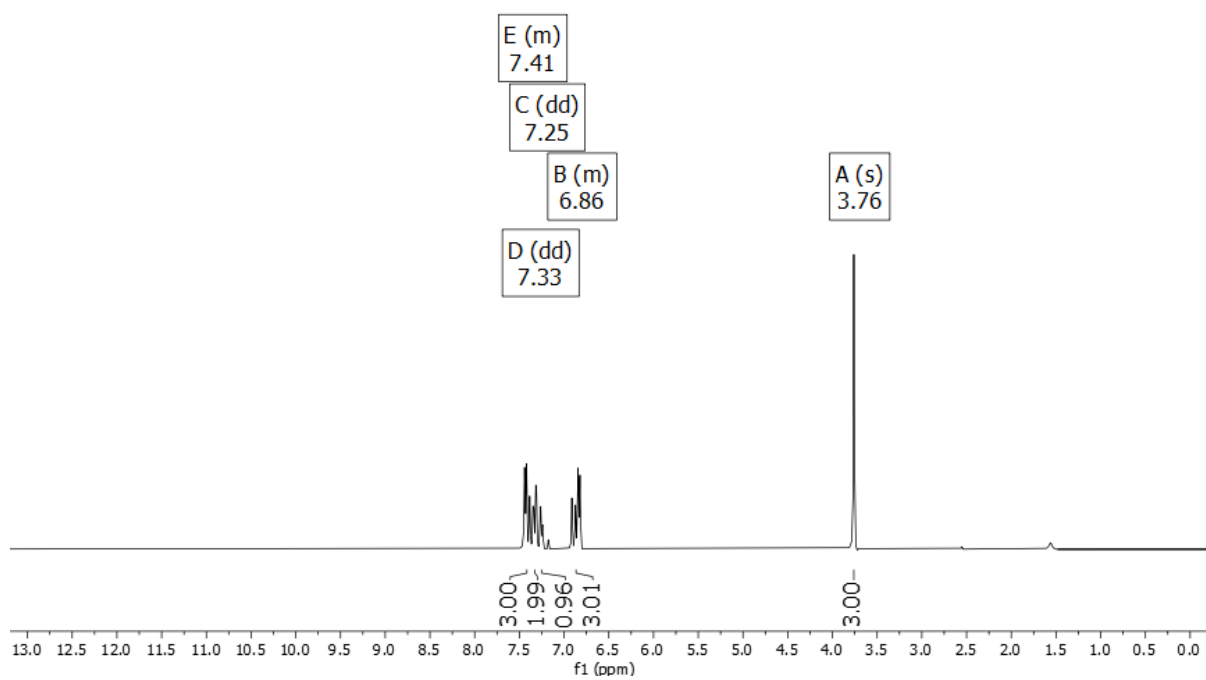
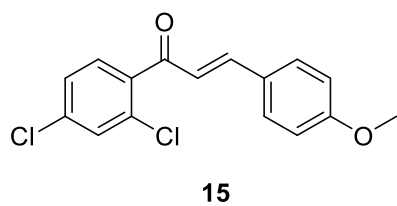


Figure S43. ¹H NMR (400 MHz, CDCl₃) spectrum of compound **15**.

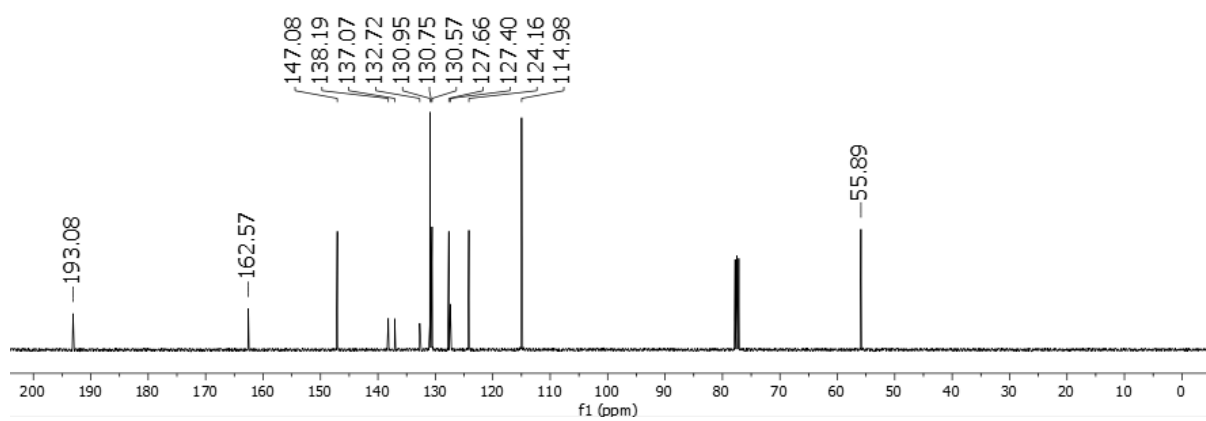


Figure S44. ¹³C NMR (101 MHz, CDCl₃) spectrum of compound **15**.

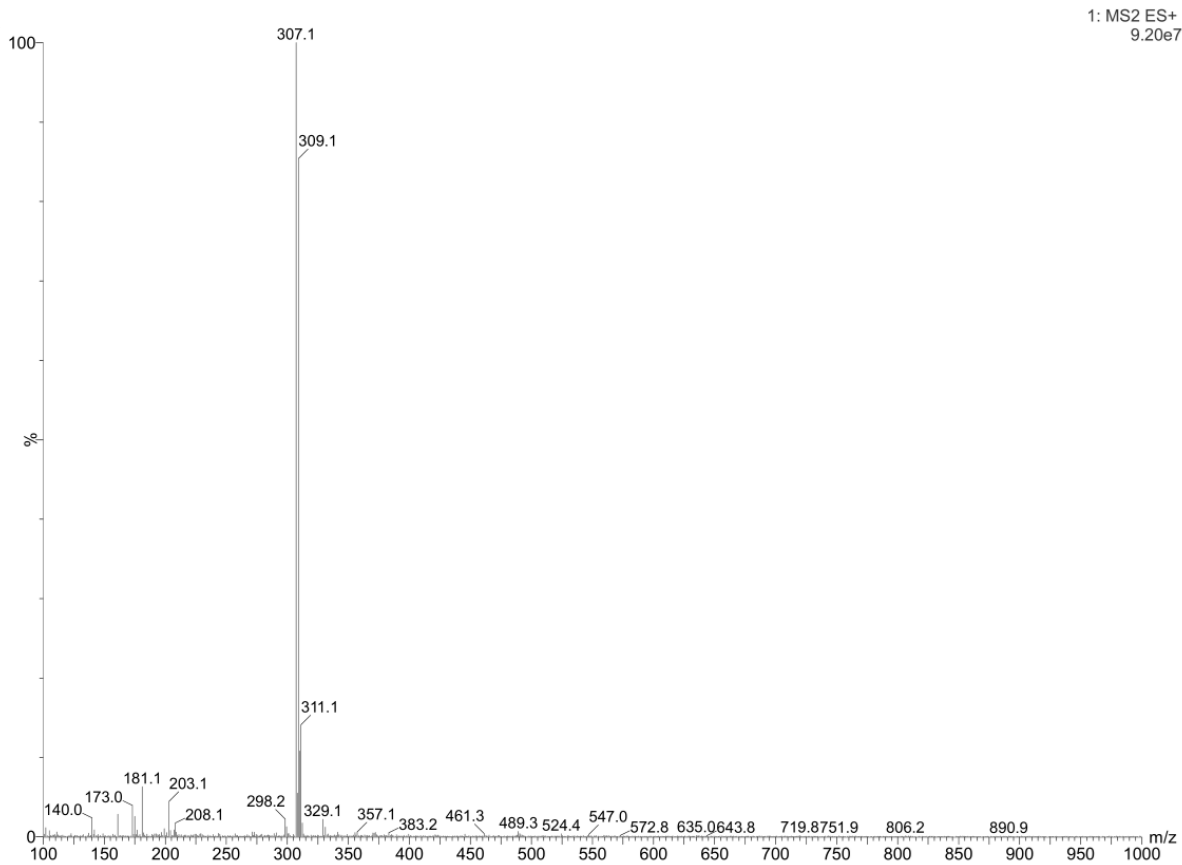


Figure S45. Mass spectrum of compound **15**.

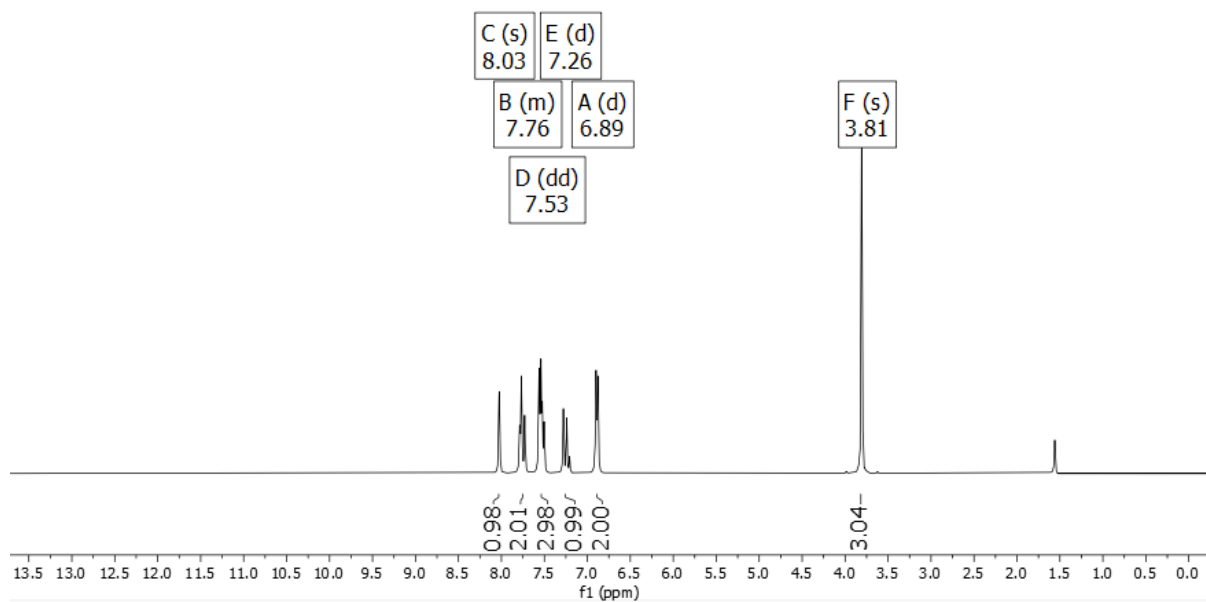
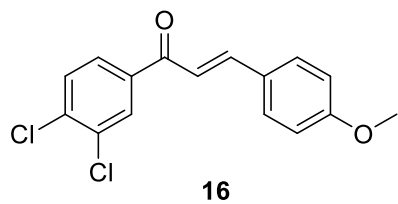


Figure S46. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **16**.

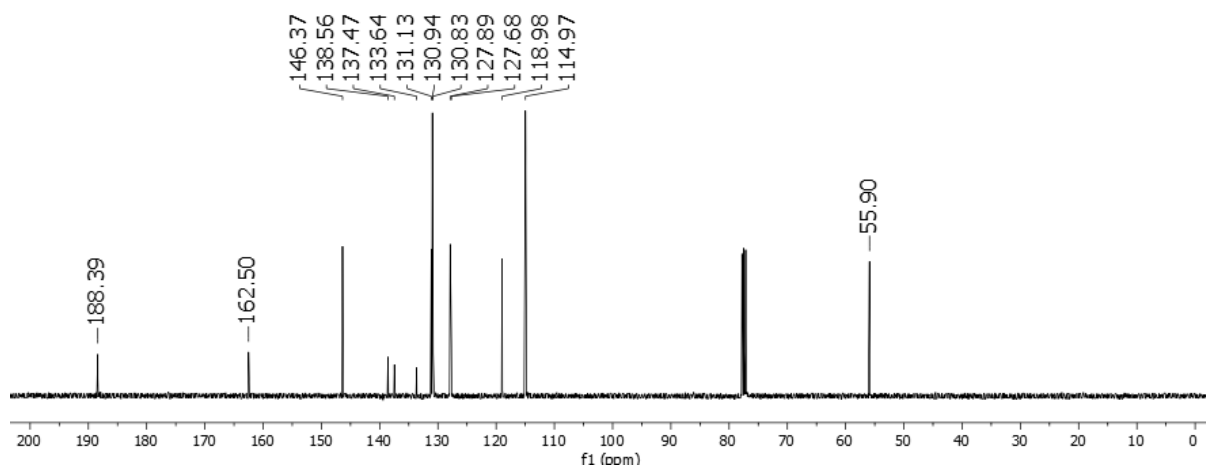


Figure S47. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **16**.

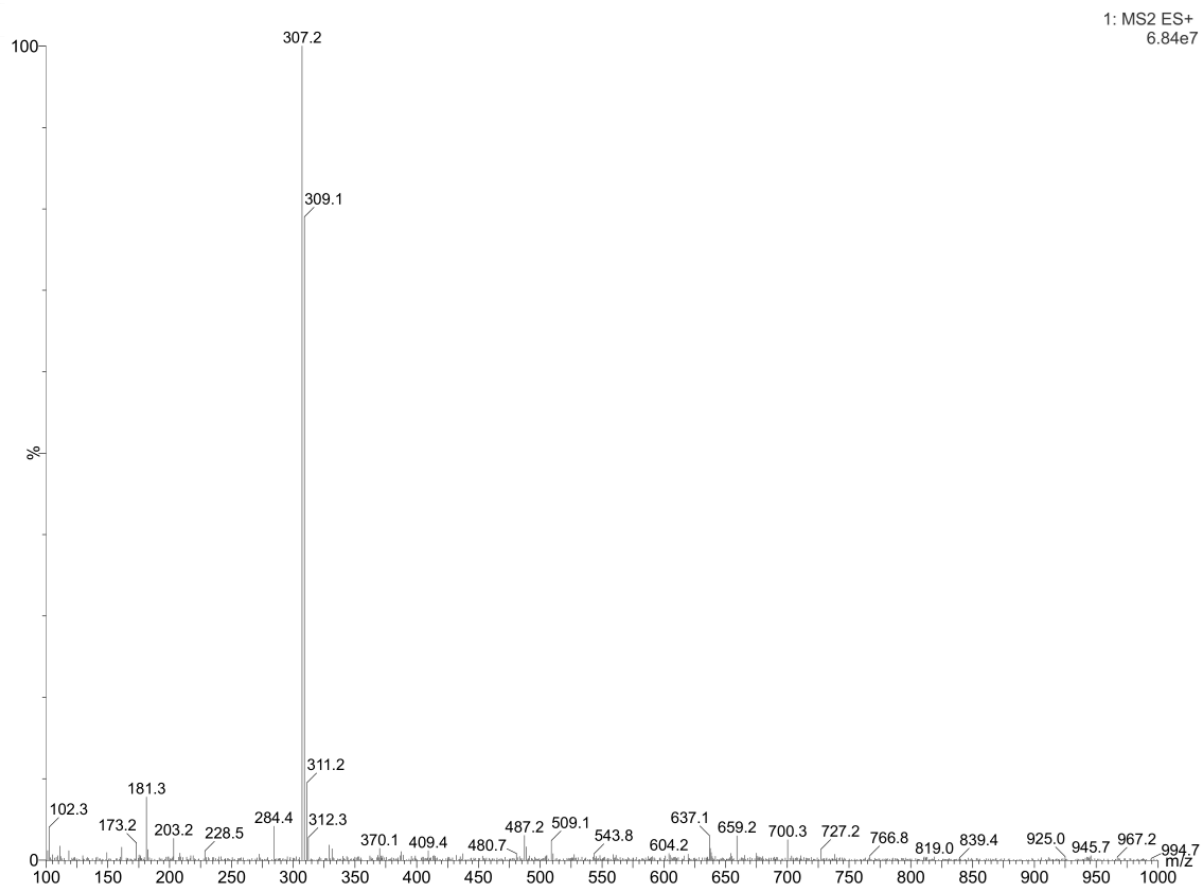


Figure S48. Mass spectrum of compound **16**.

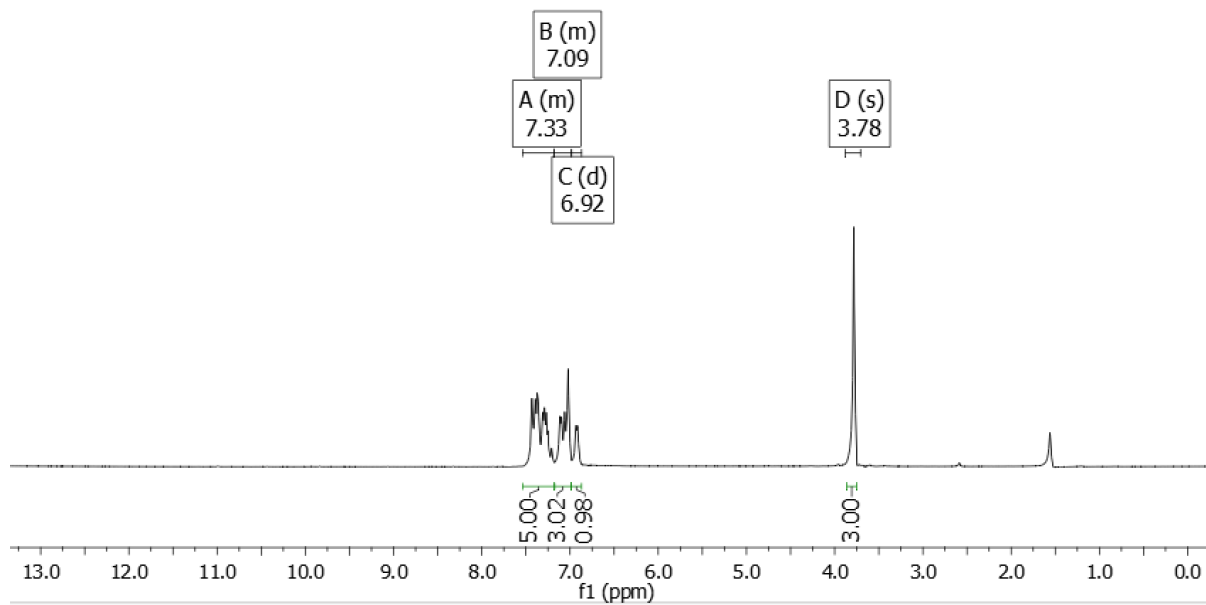
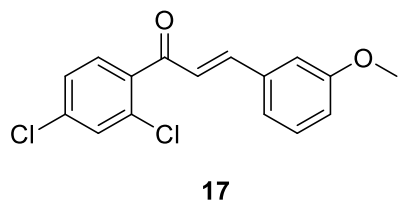


Figure S49. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **17**.

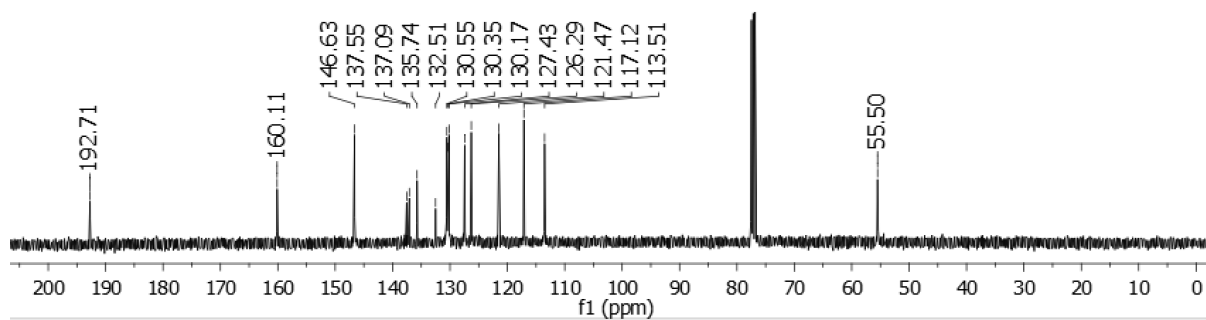


Figure S50. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **17**.

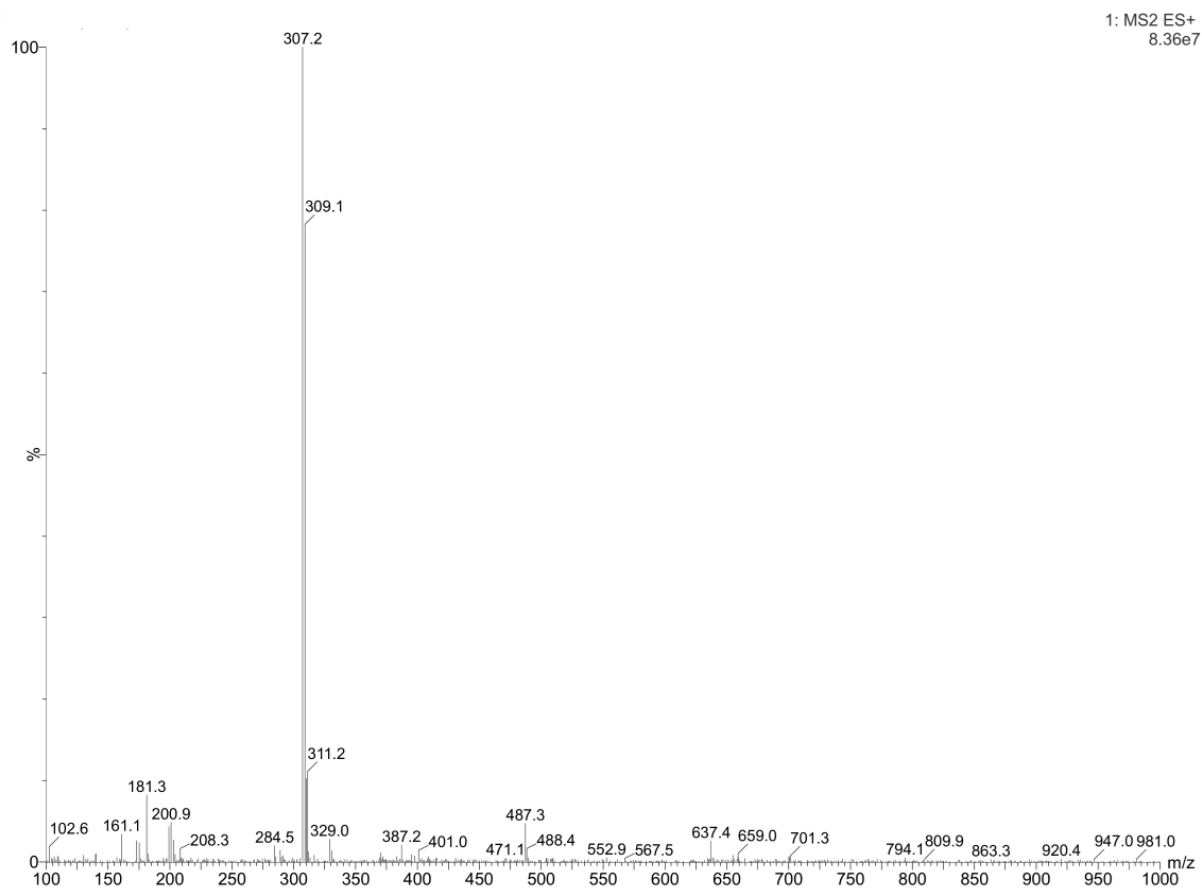


Figure S51. Mass spectrum of compound 17.

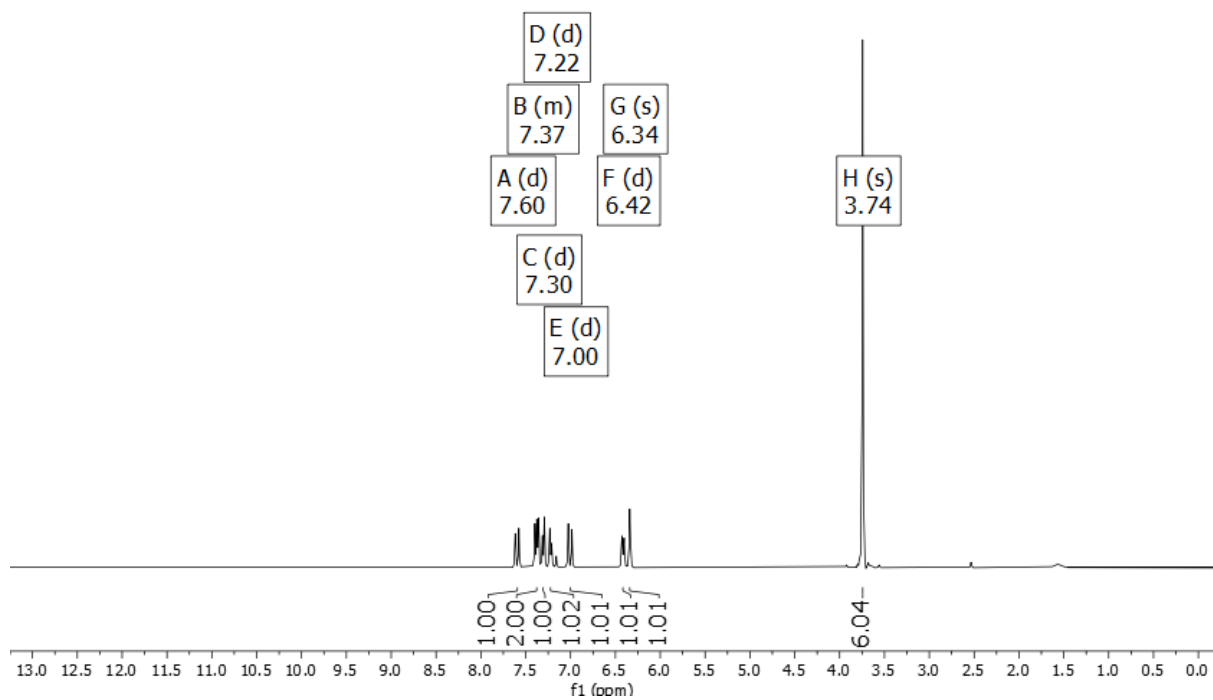
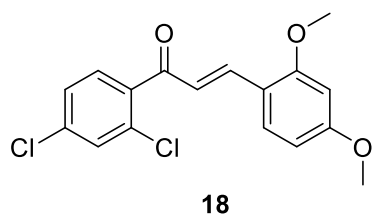


Figure S52. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **18**.

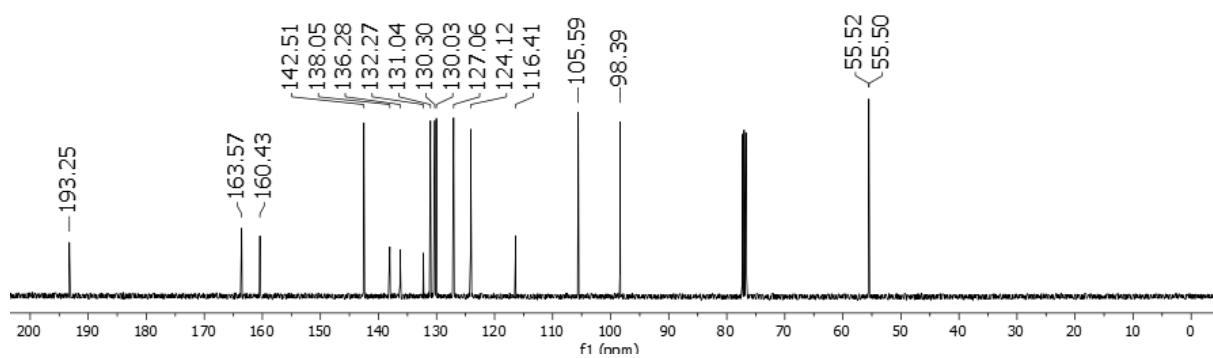


Figure S53. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **18**.

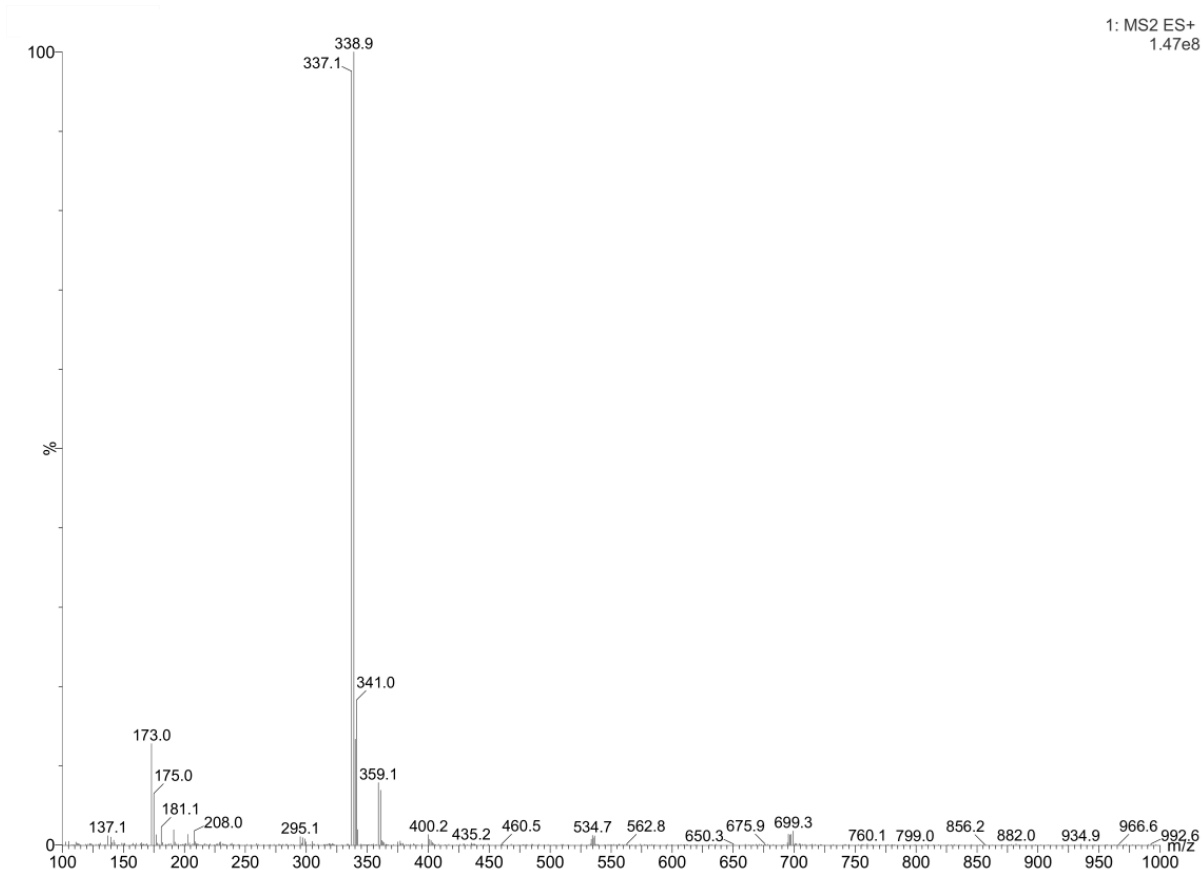


Figure S54. Mass spectrum of compound **18**.

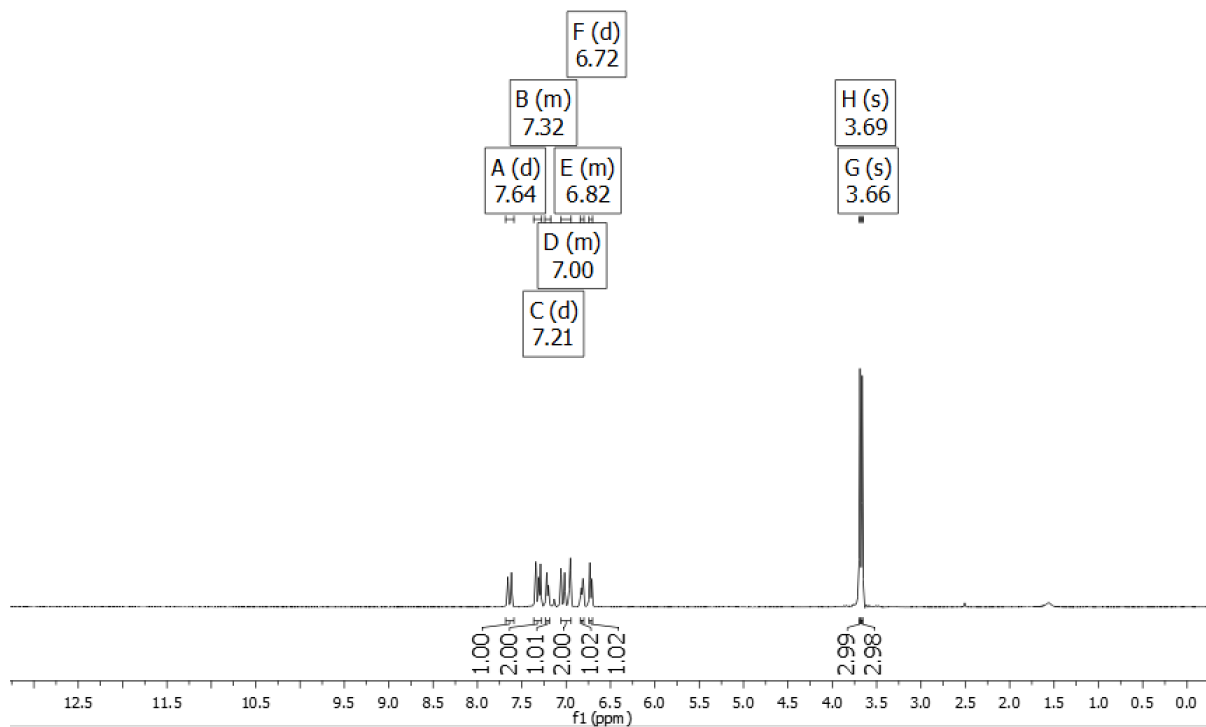
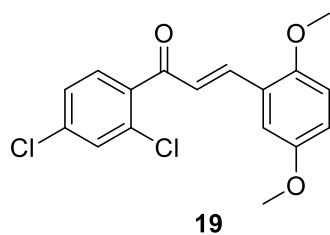


Figure S55. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **19**.

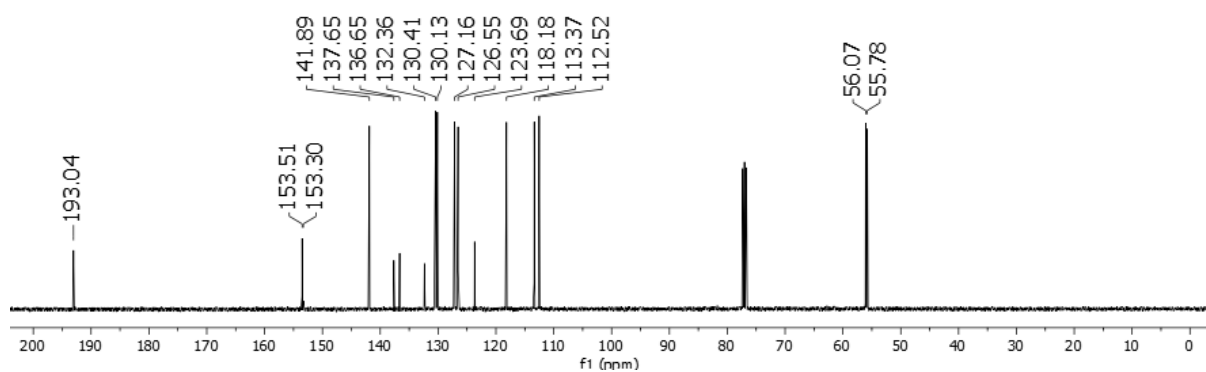


Figure S56. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **19**.

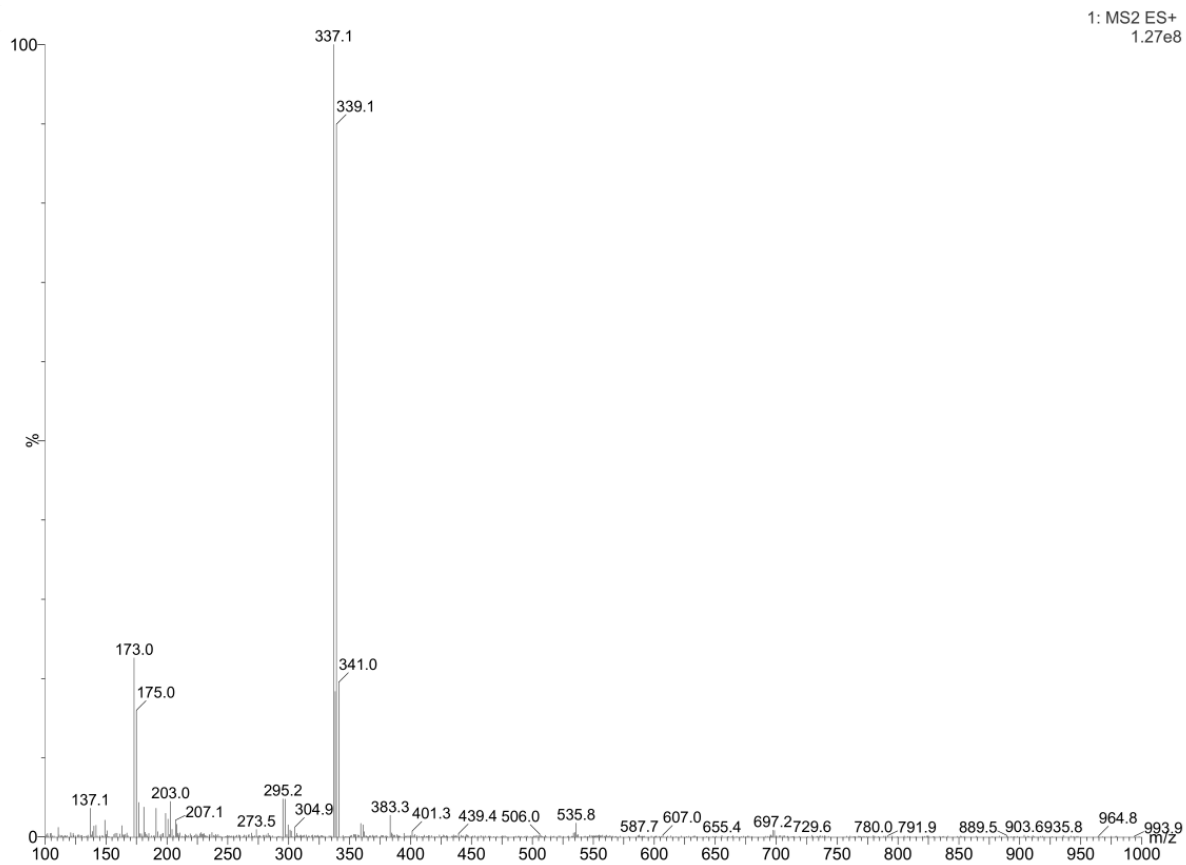
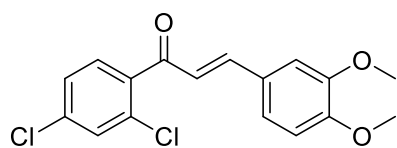


Figure S57. Mass spectrum of compound **19**.



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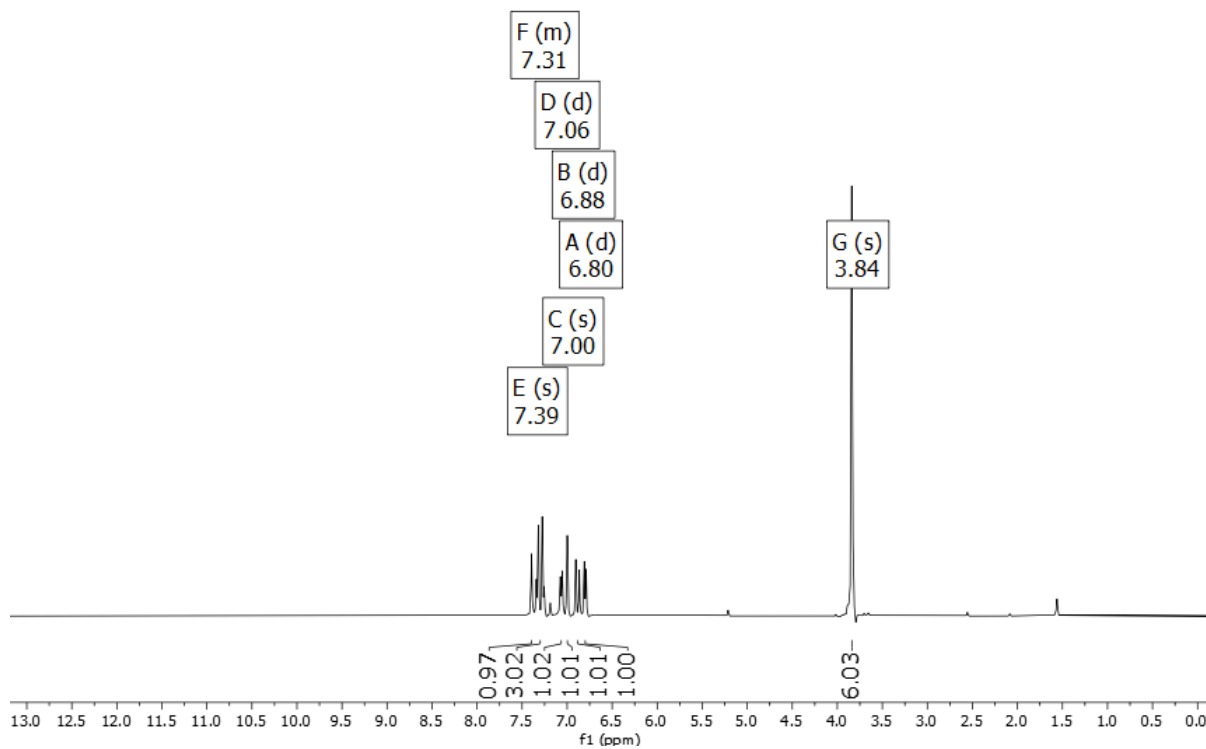


Figure S58. ¹H NMR (400 MHz, CDCl₃) spectrum of compound 20.

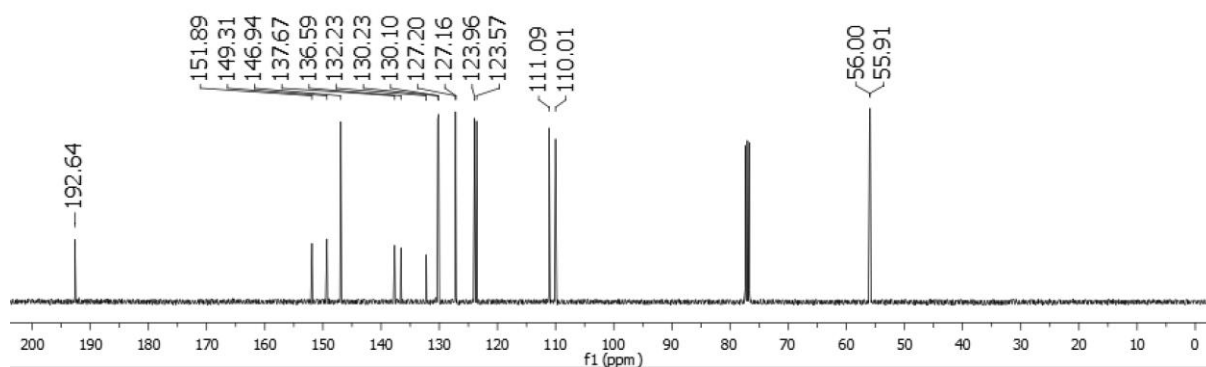


Figure S59. ¹³C NMR (101 MHz, CDCl₃) spectrum of compound 20.

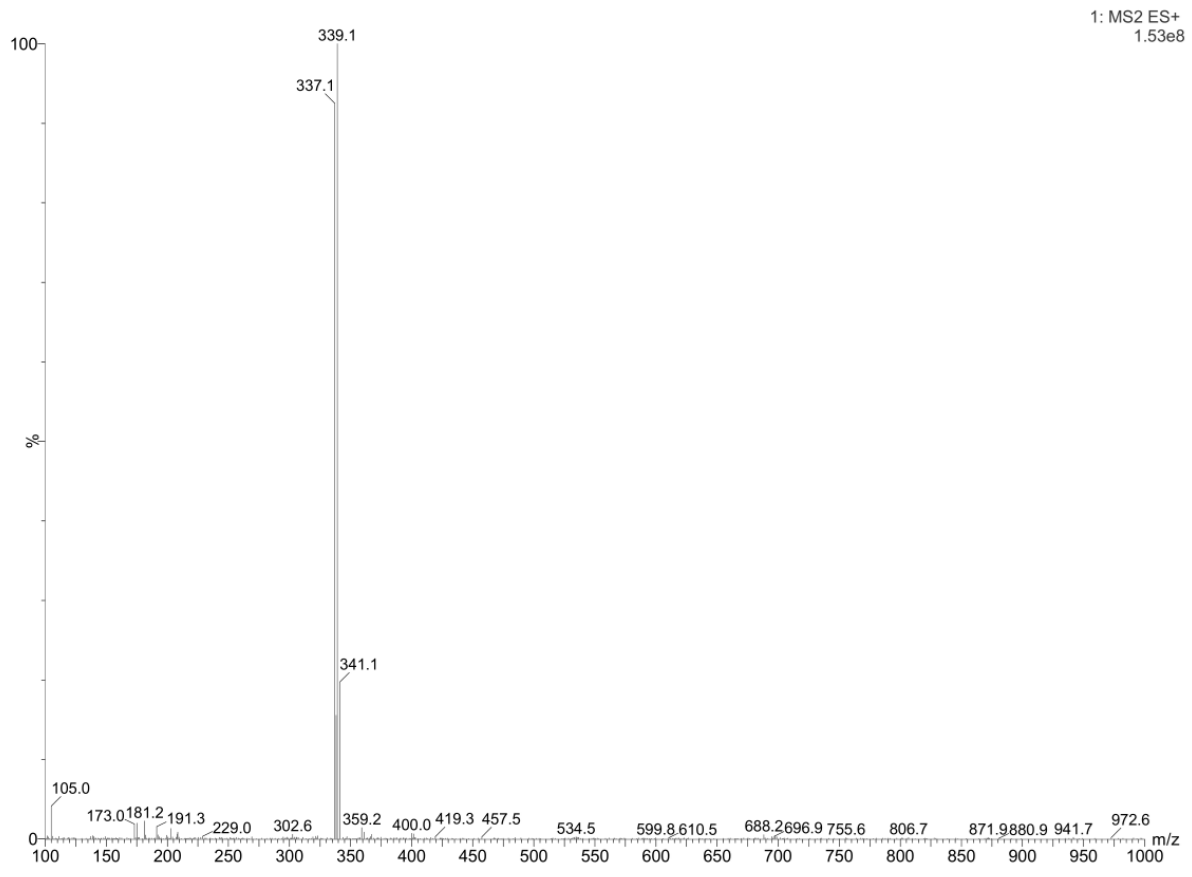
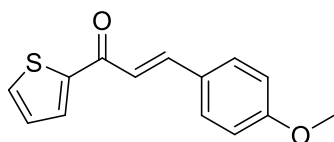


Figure S60. Mass spectrum of compound **20**.



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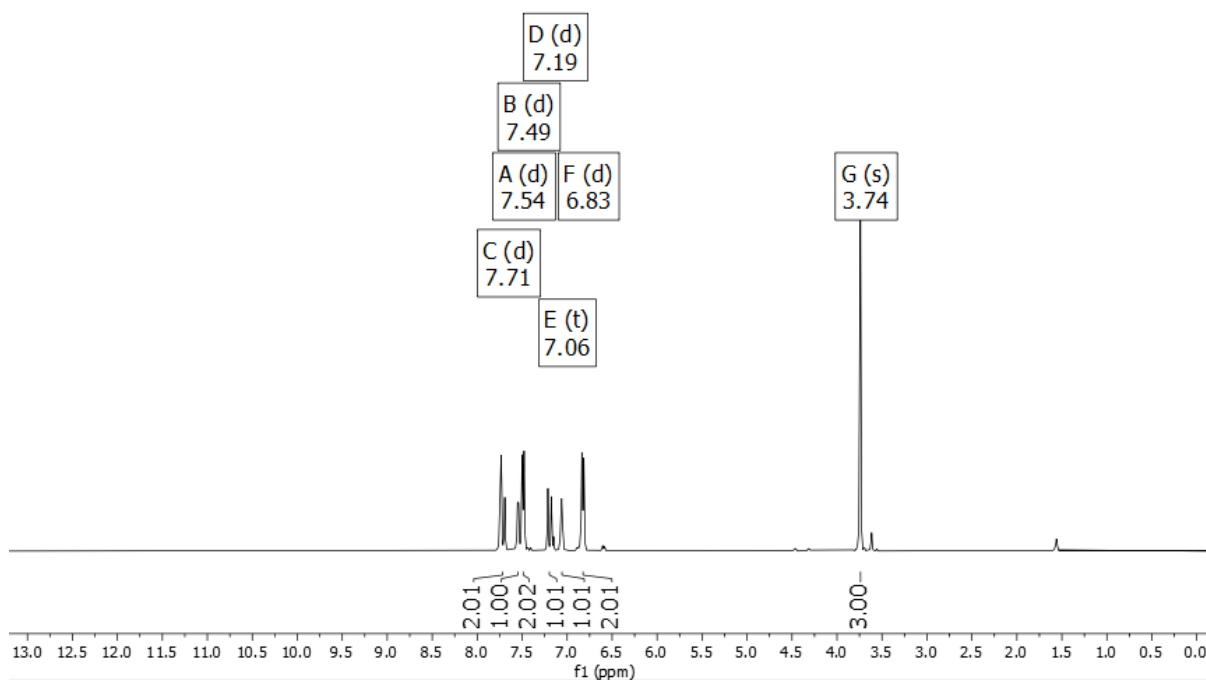


Figure S61. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **21**.

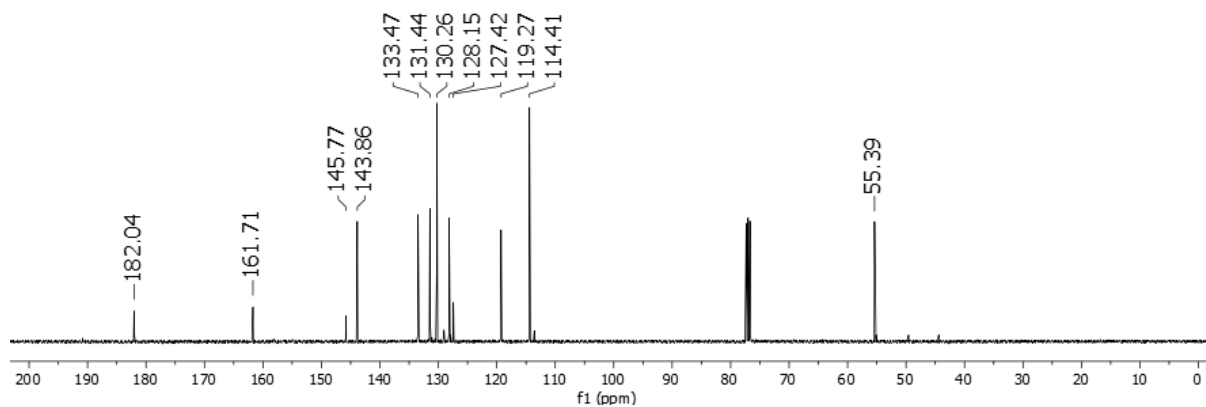


Figure S62. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **21**.

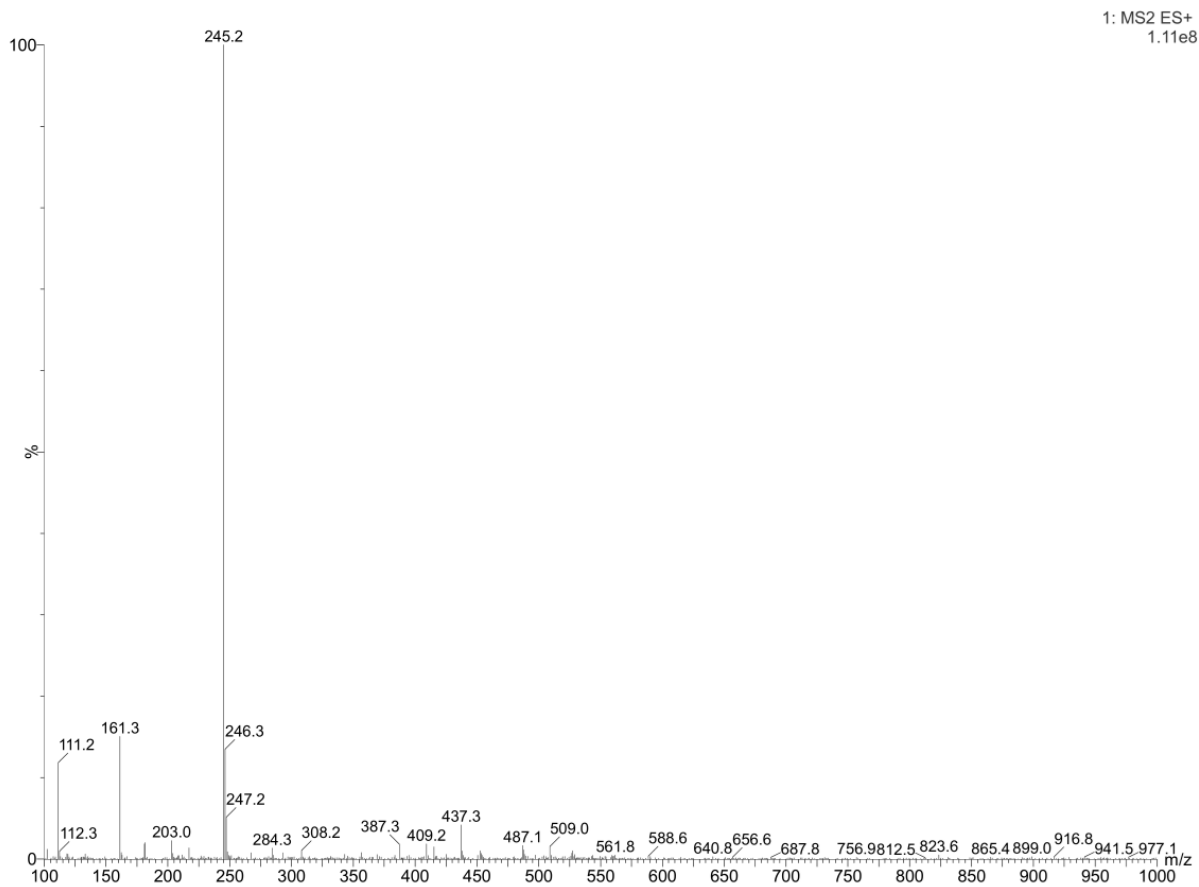
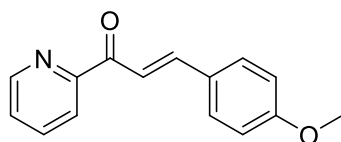


Figure S63. Mass spectrum of compound **21**.



22

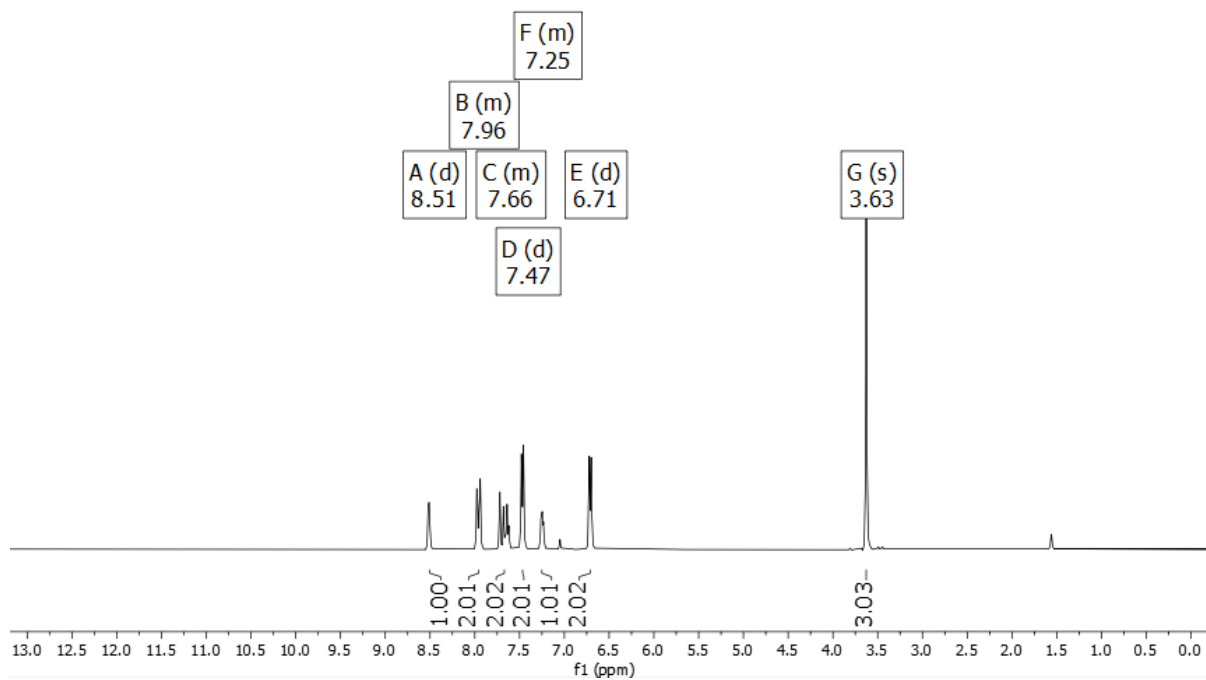


Figure S64. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **22**.

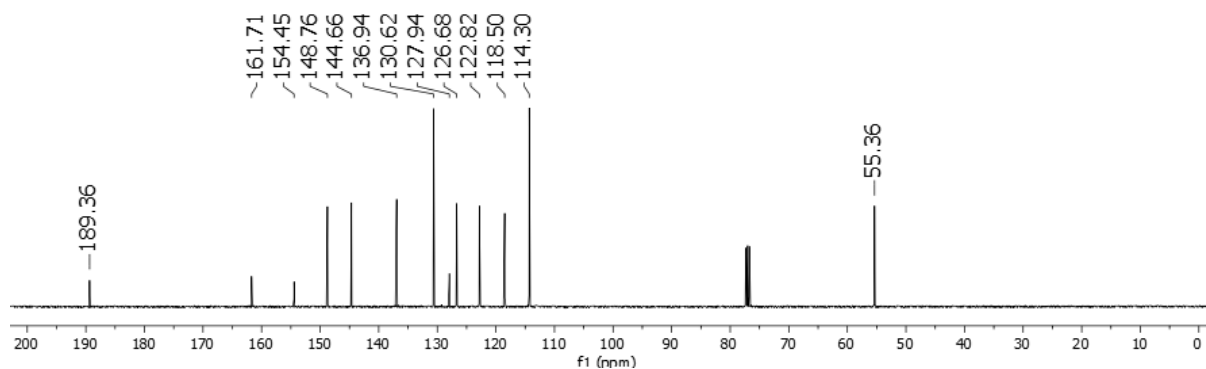


Figure S65. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **22**.

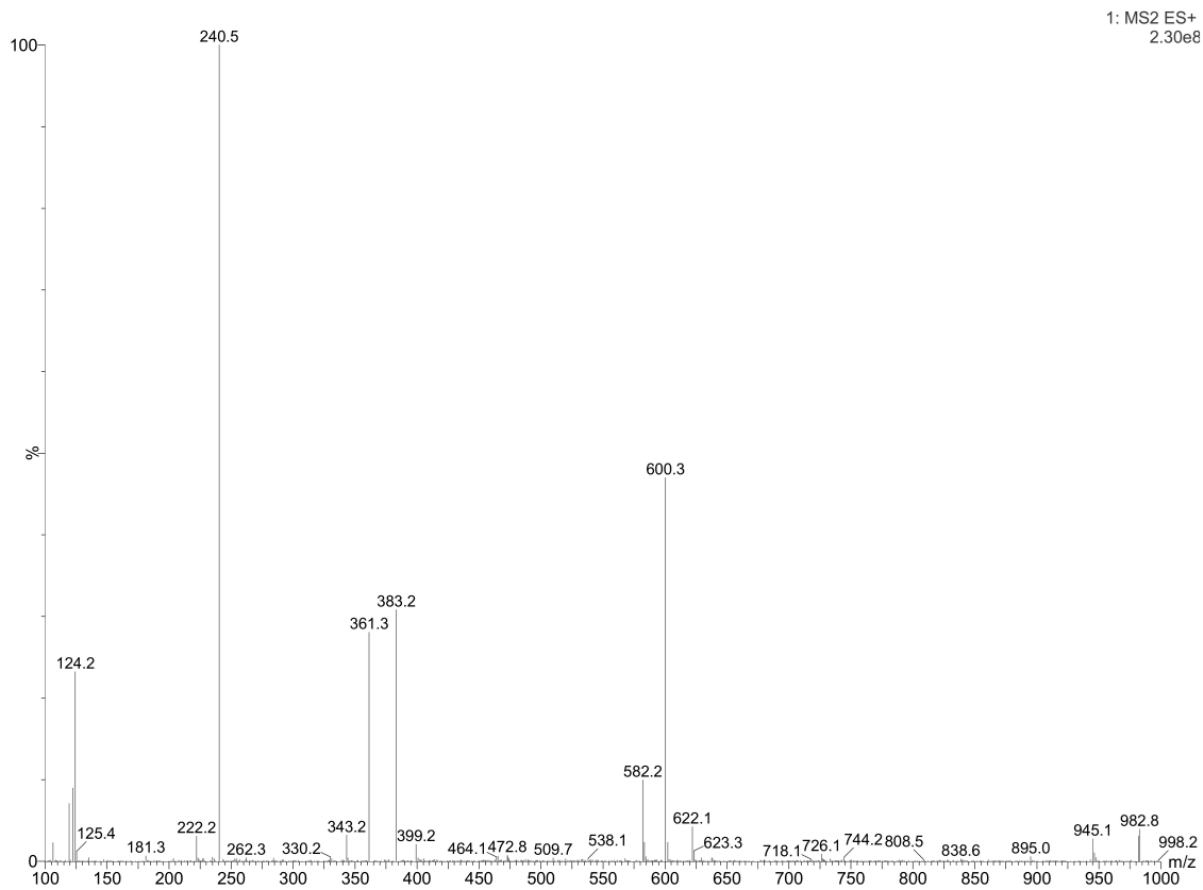
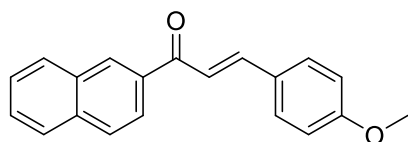


Figure S66. Mass spectrum of compound **22**.



23

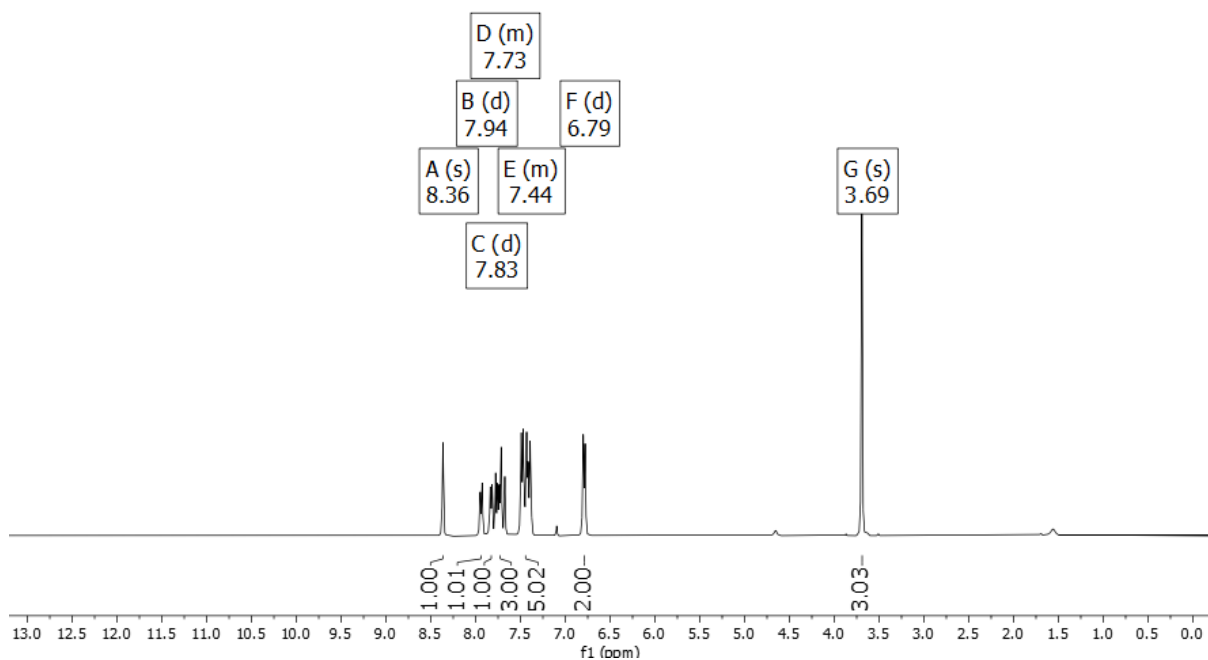


Figure S67. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **23**.

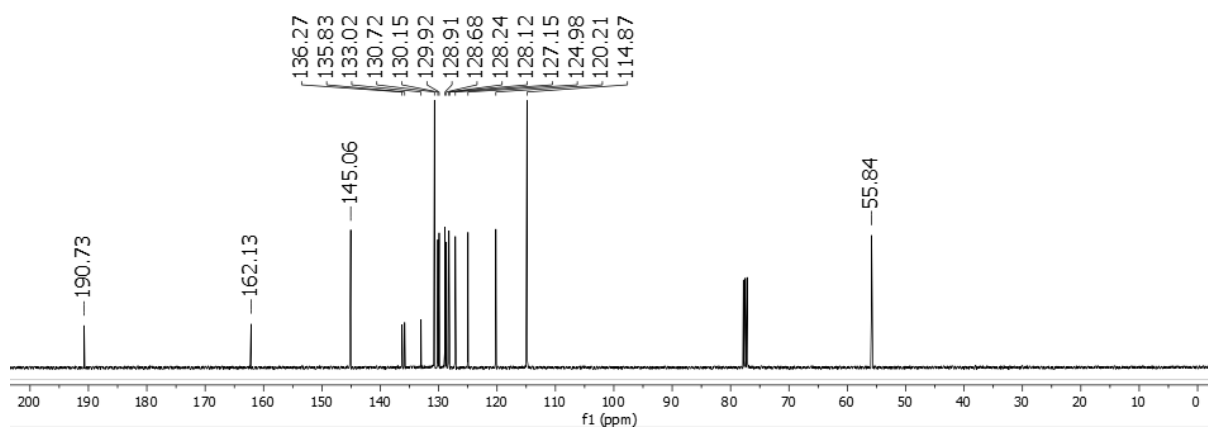


Figure S68. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **23**.

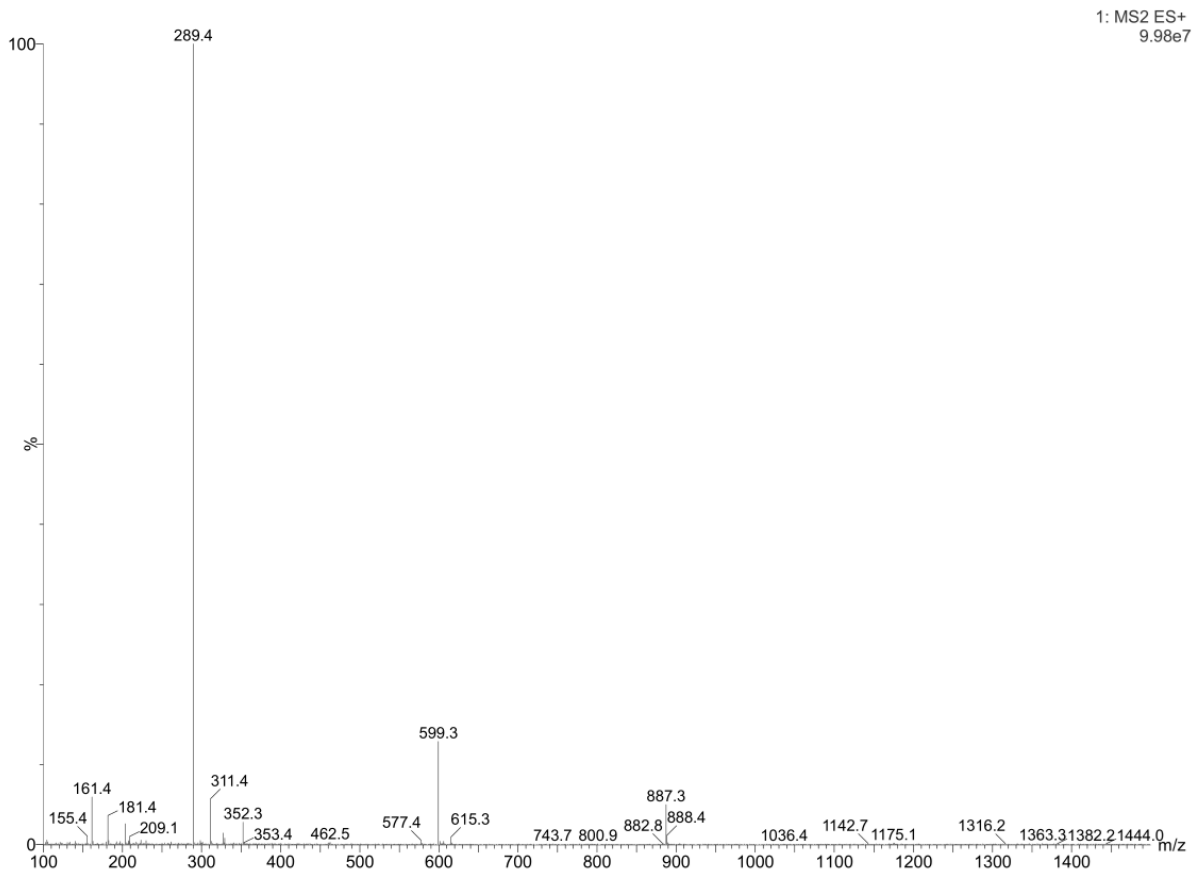
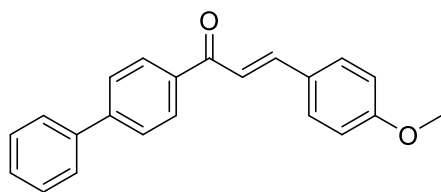


Figure S69. Mass spectrum of compound **23**.



24

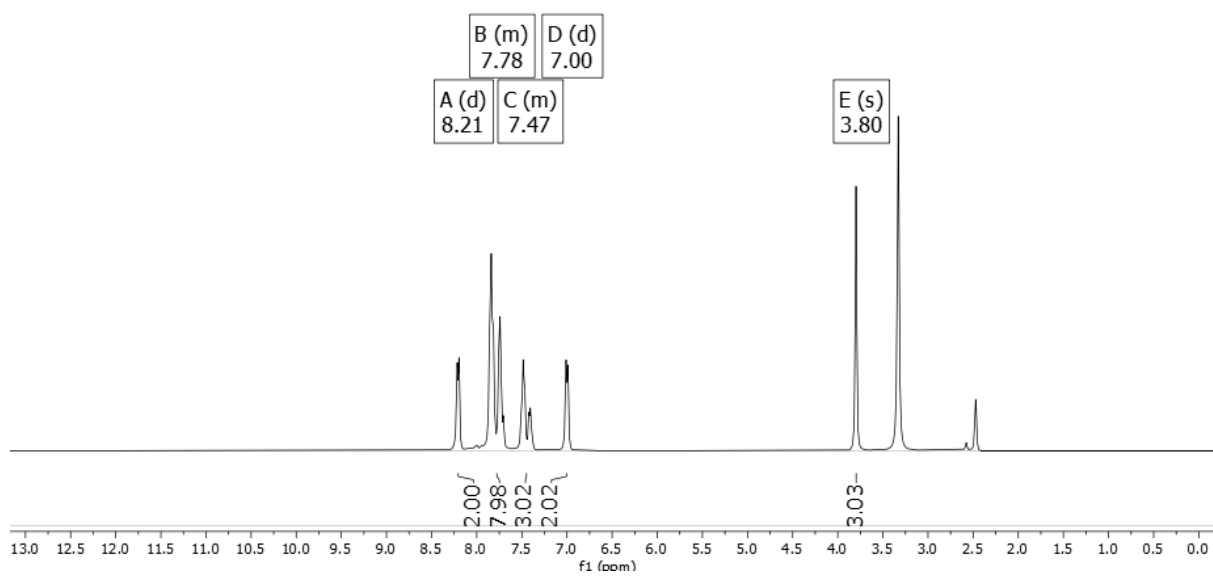


Figure S70. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of compound 24.

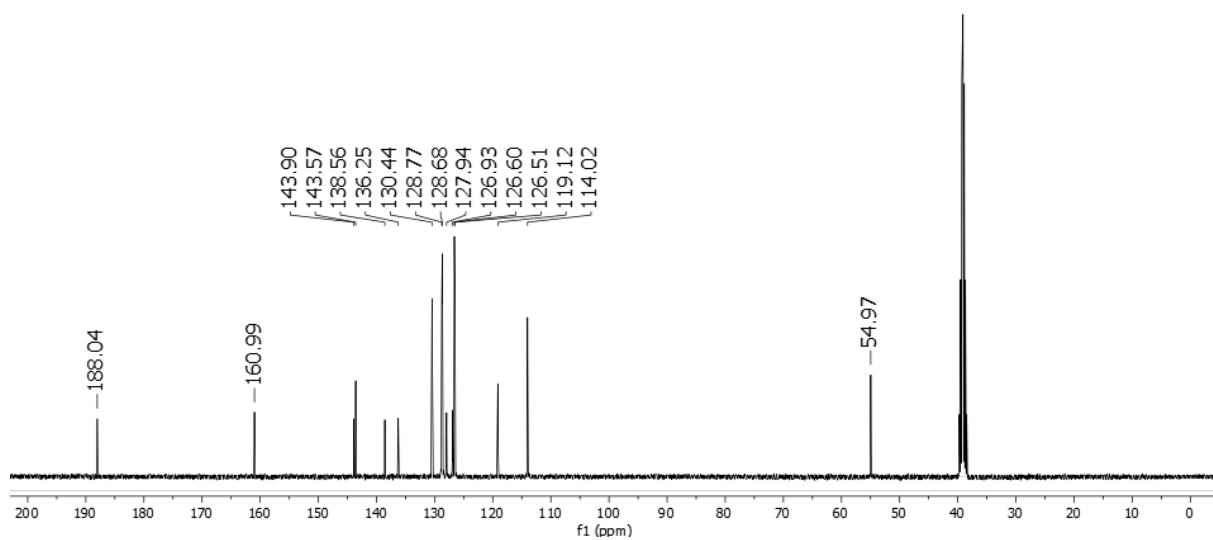


Figure S71. ¹³C NMR (101 MHz, DMSO-*d*₆) spectrum of compound 24.

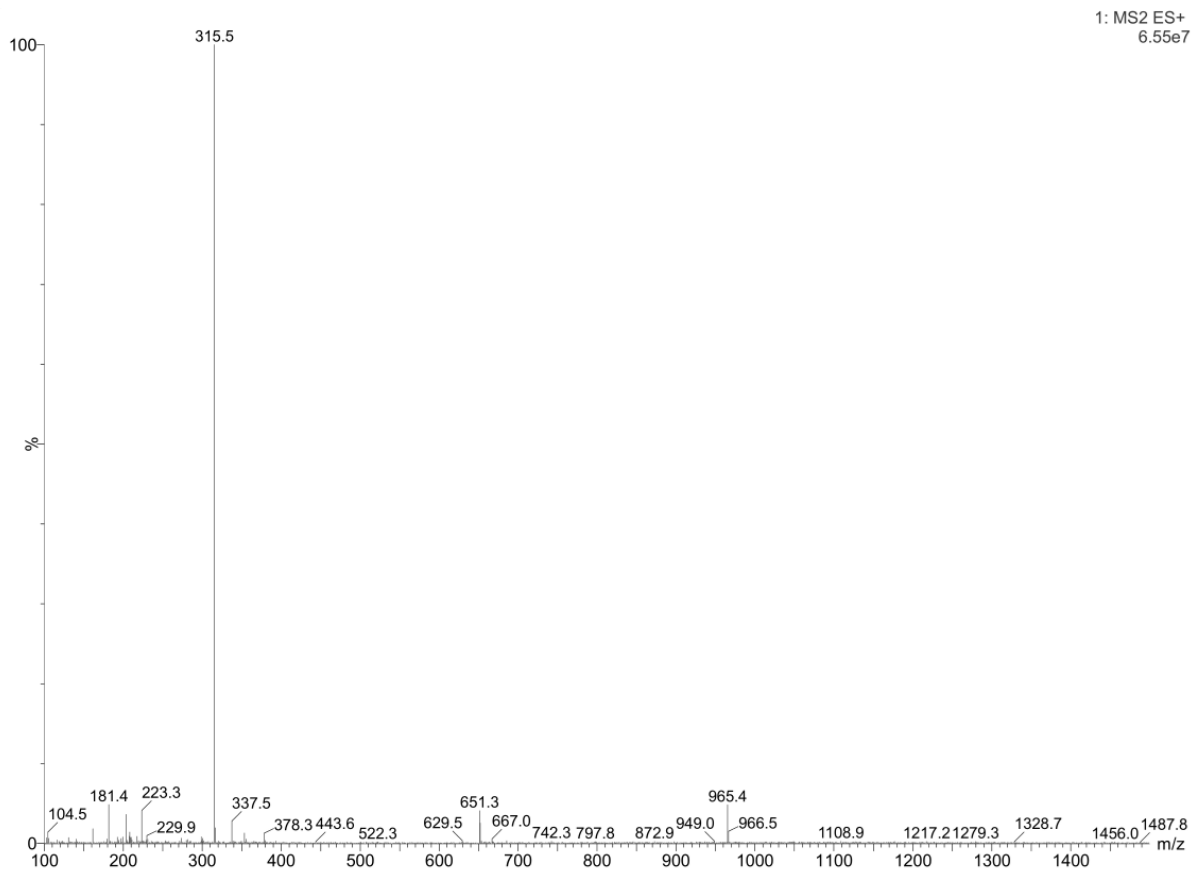
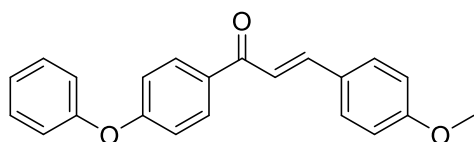


Figure S72. Mass spectrum of compound **24**.



25

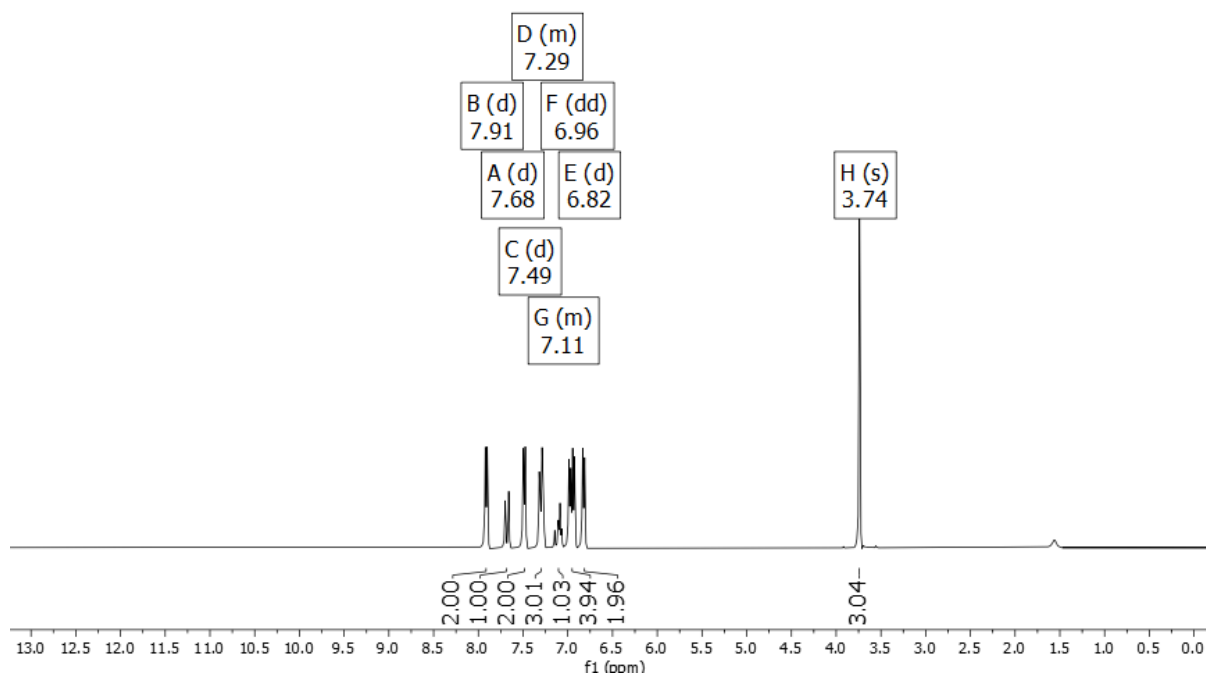


Figure S73. ^1H NMR (400 MHz, CDCl_3) spectrum of compound **25**.

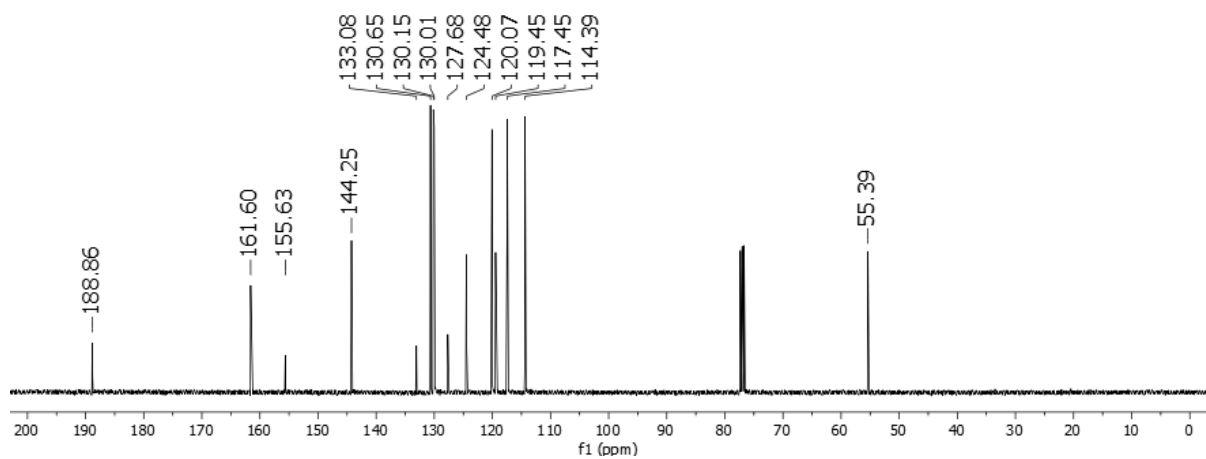


Figure S74. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound **25**.

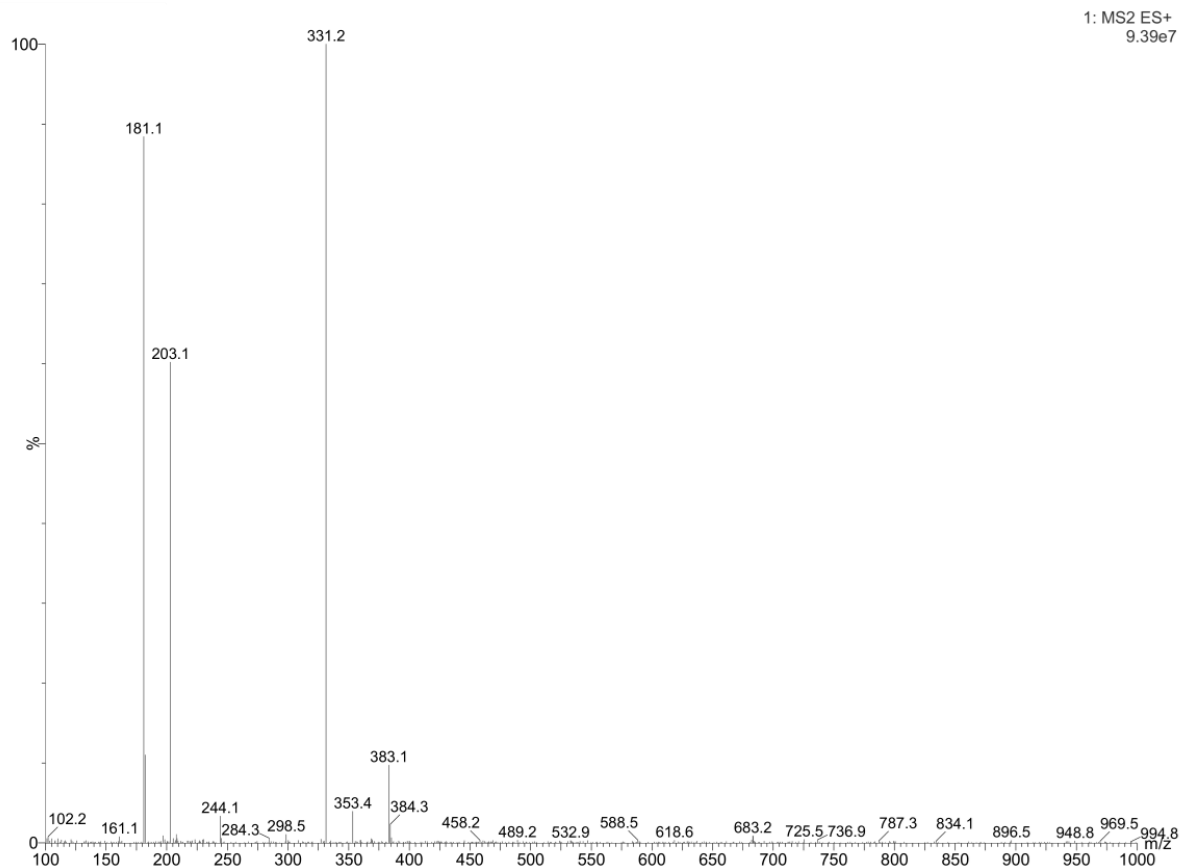
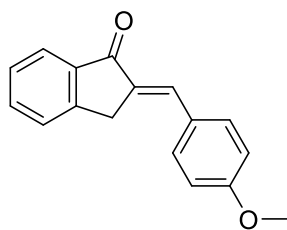


Figure S75. Mass spectrum of compound **25**.



26

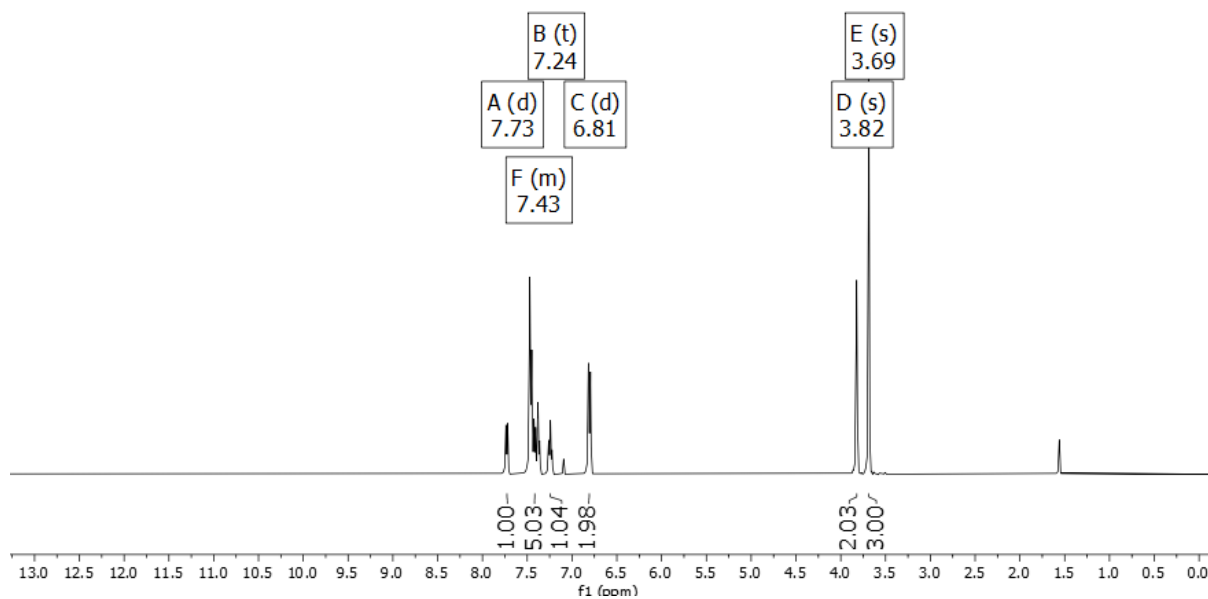


Figure S76. ^1H NMR (400 MHz, CDCl_3) spectrum of compound 26.

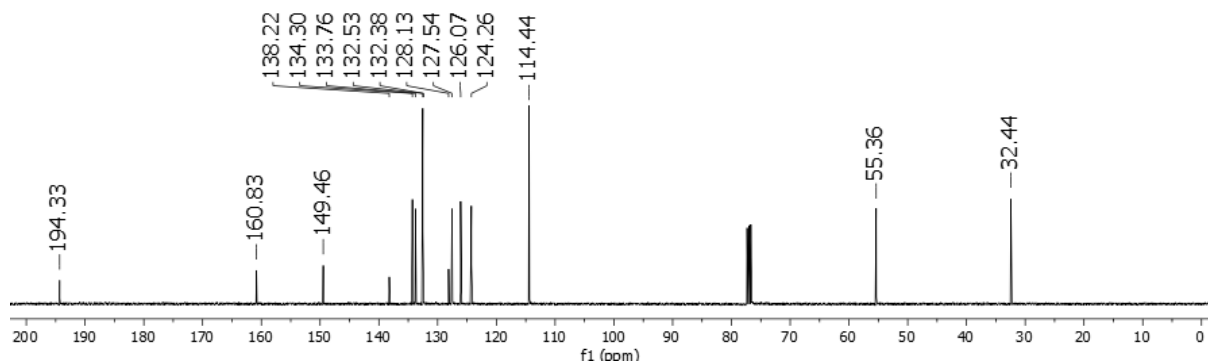


Figure S77. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound 26.

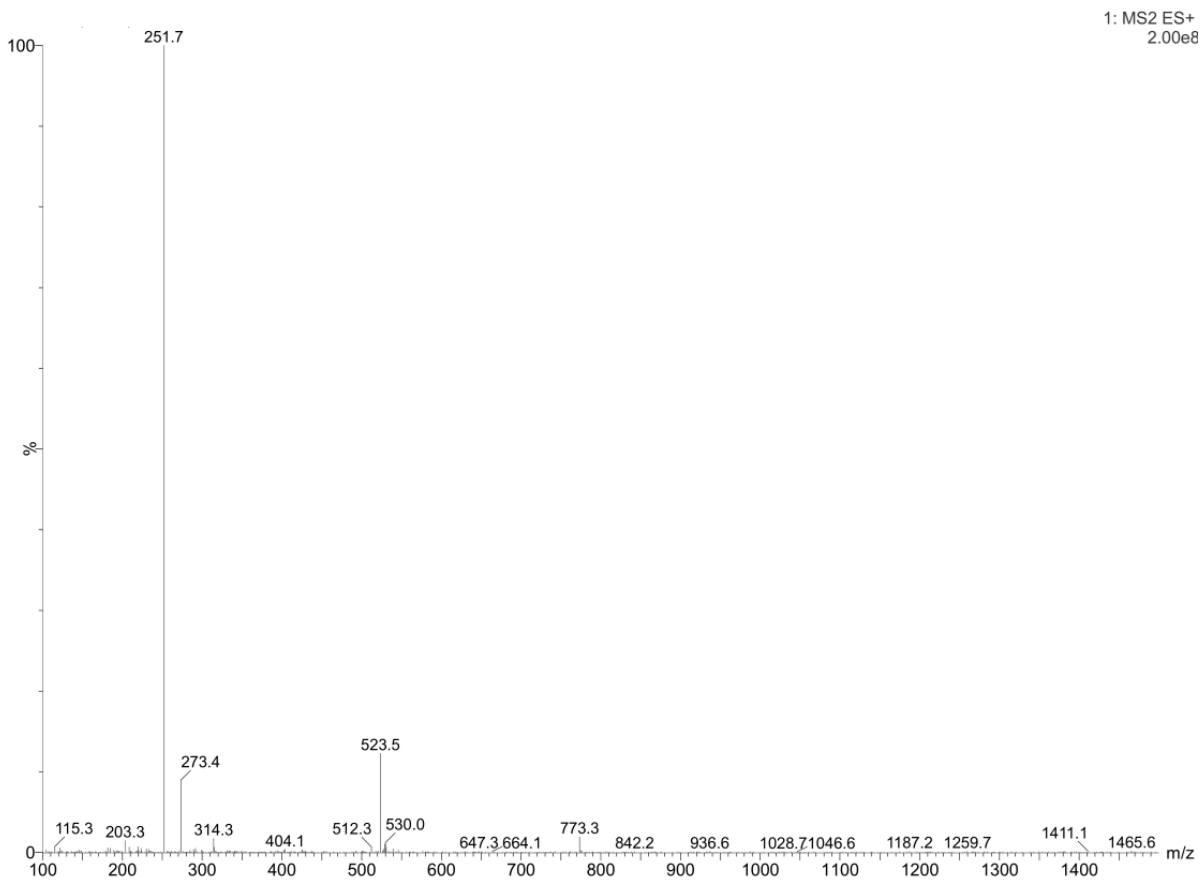
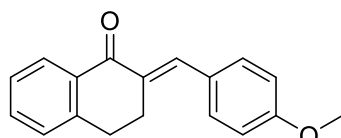


Figure S78. Mass spectrum of compound **26**.



27

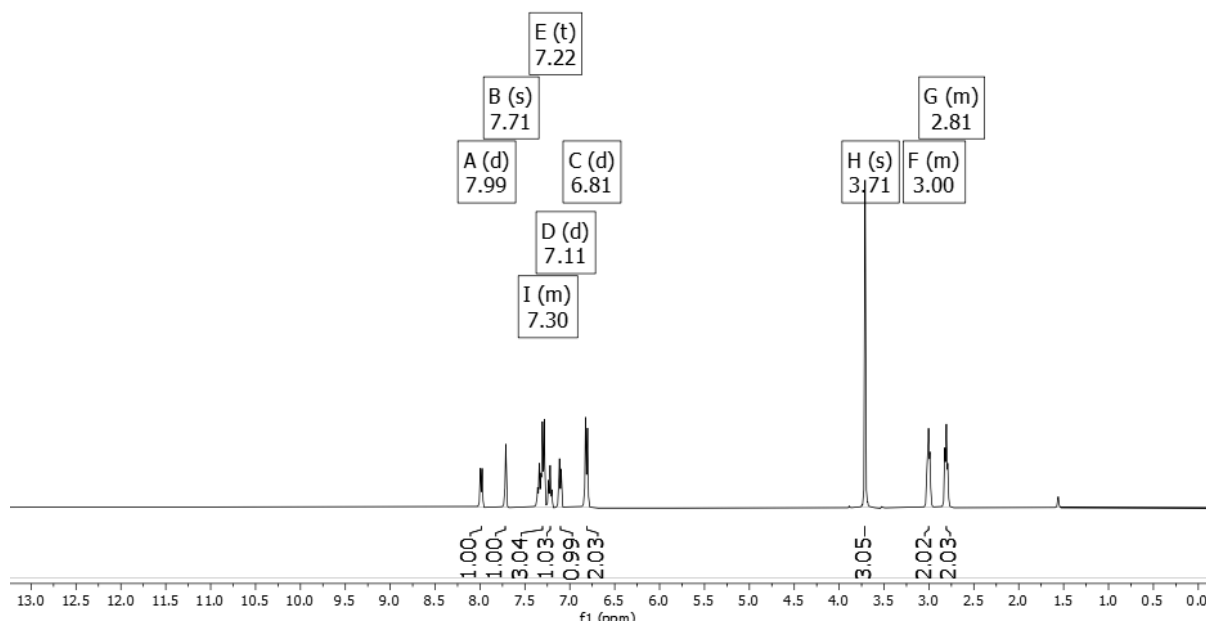


Figure S79. ^1H NMR (400 MHz, CDCl_3) spectrum of compound 27.

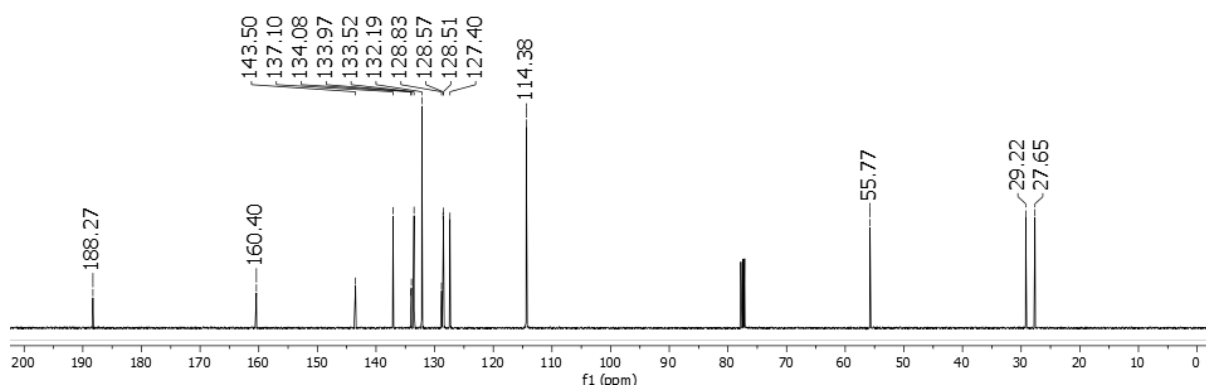


Figure S80. ^{13}C NMR (101 MHz, CDCl_3) spectrum of compound 27.

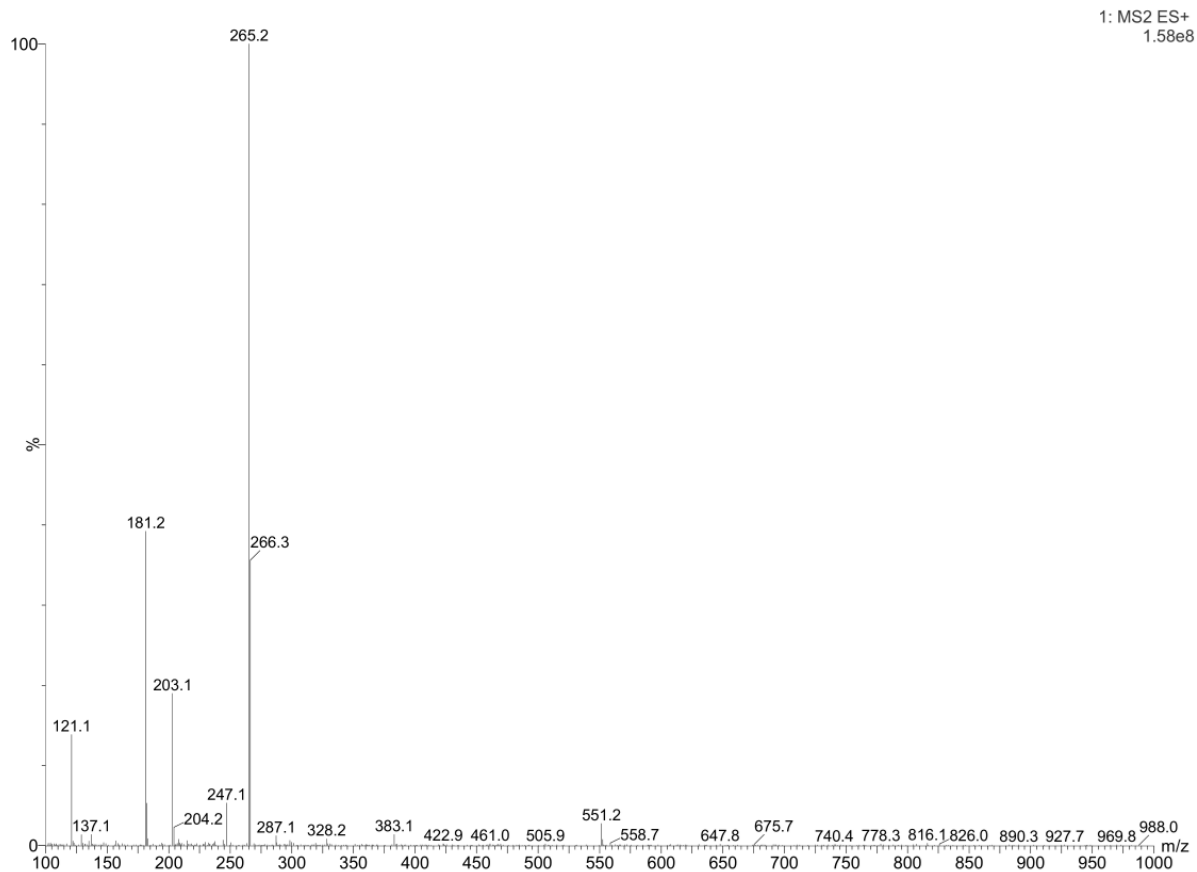
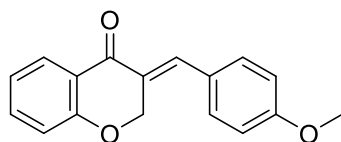
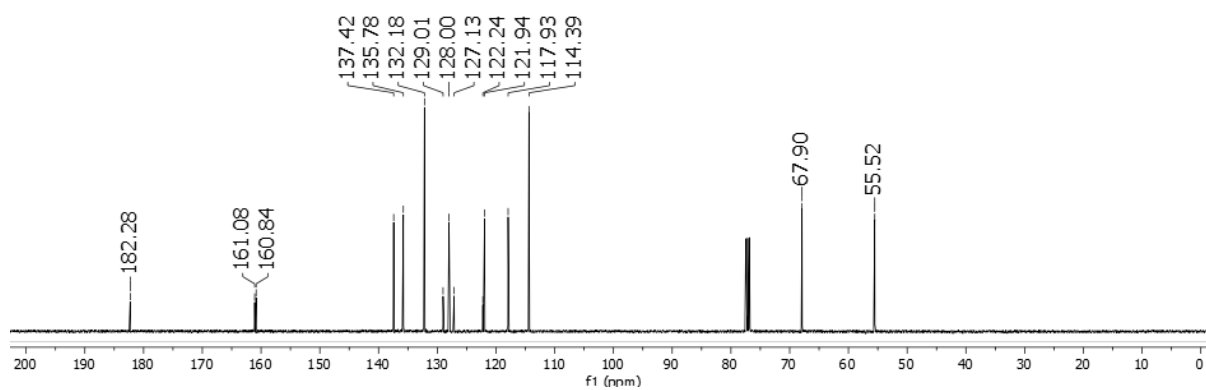
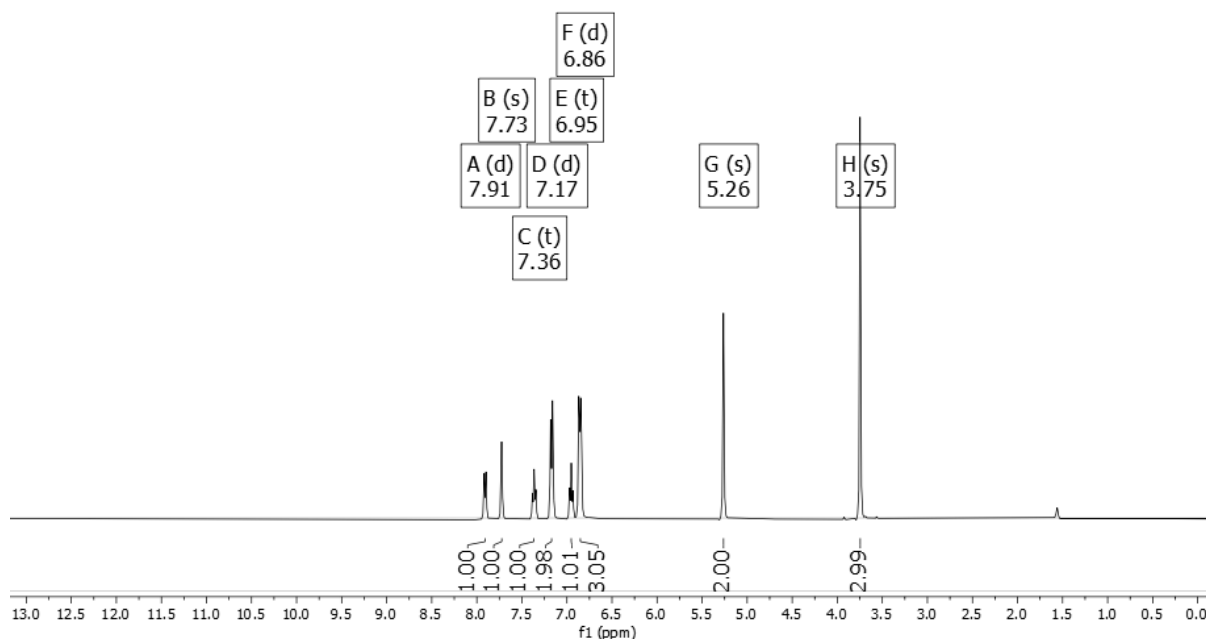


Figure S81. Mass spectrum of compound 27.



28



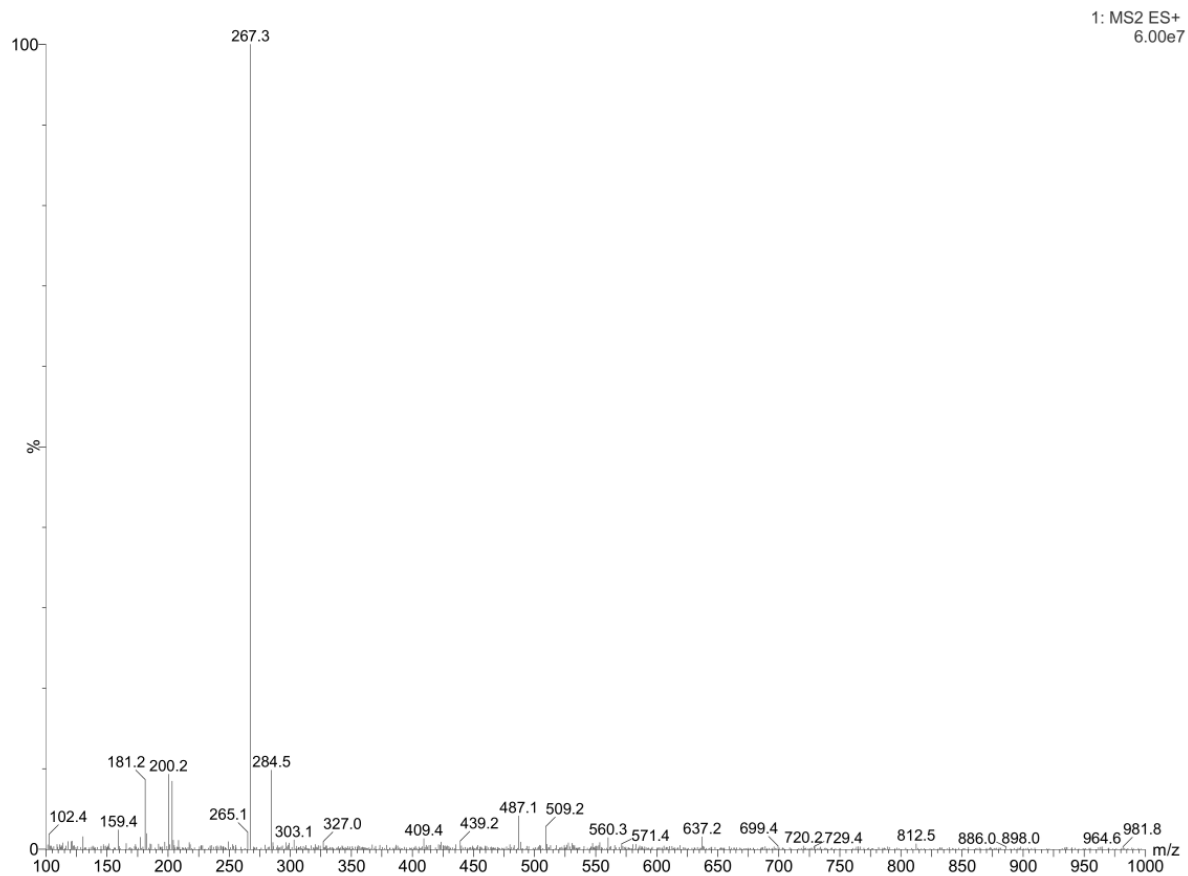


Figure S84. Mass spectrum of compound **28**.

HPLC chromatograms

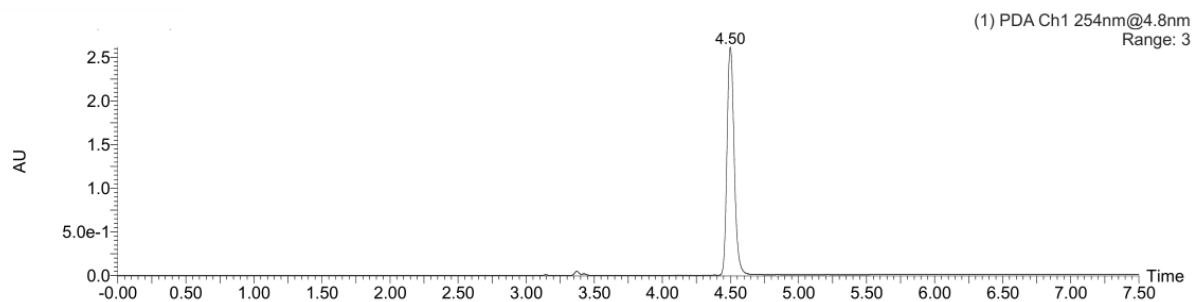


Figure S85. HPLC chromatogram of compound 1.

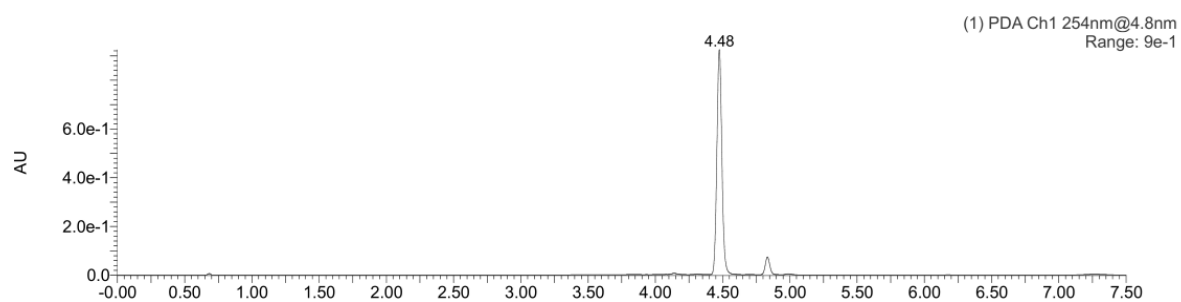


Figure S86. HPLC chromatogram of compound 2.

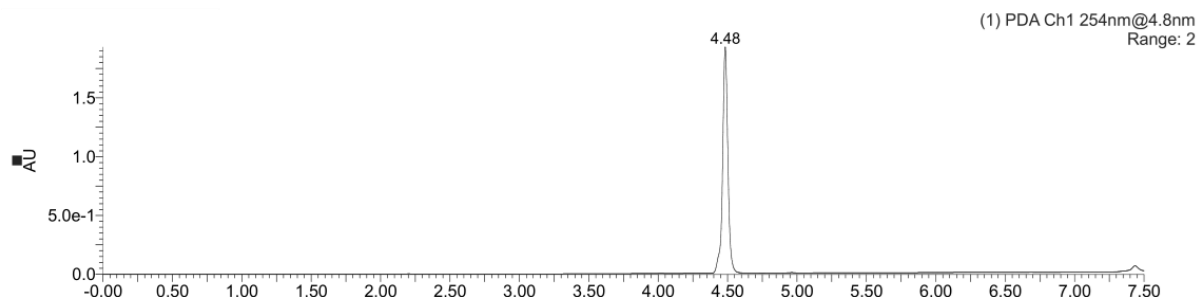


Figure S87. HPLC chromatogram of compound 3.

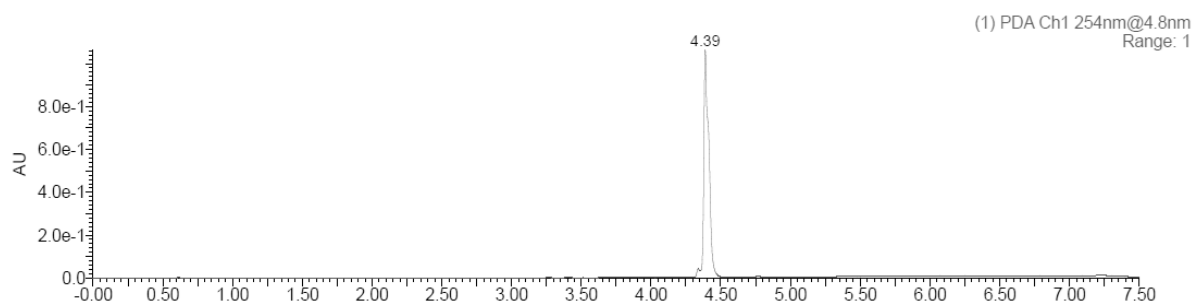


Figure S88. HPLC chromatogram of compound 4.

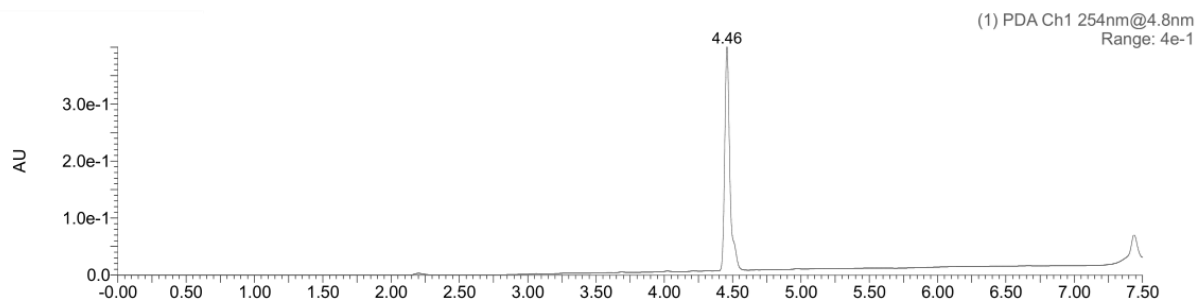


Figure S89. HPLC chromatogram of compound **5**.

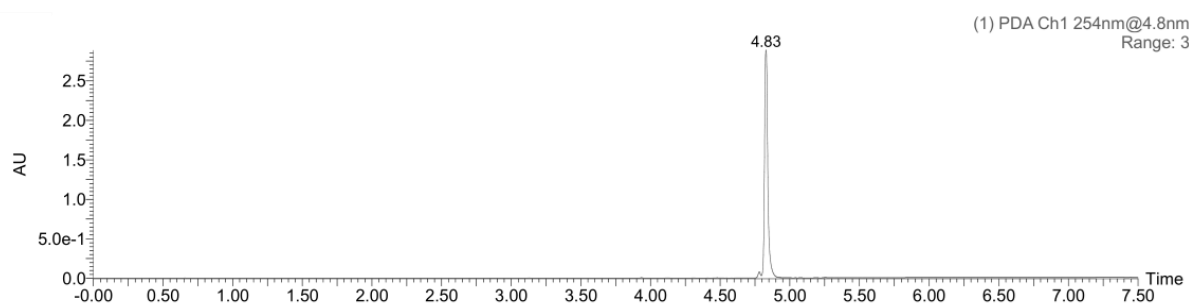


Figure S90. HPLC chromatogram of compound **6**.

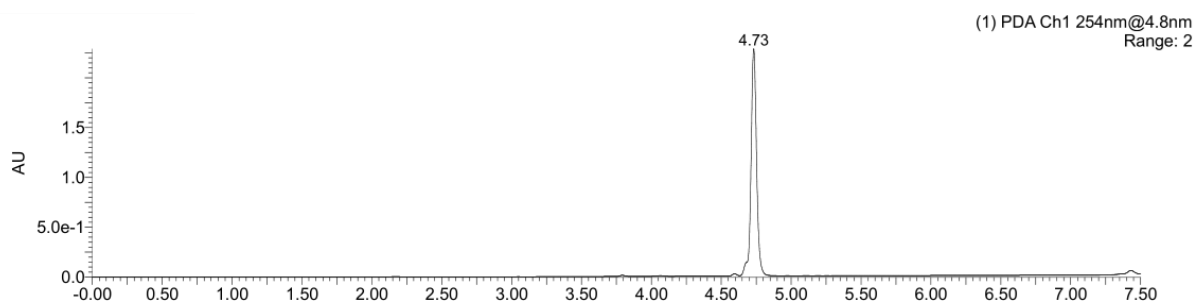


Figure S91. HPLC chromatogram of compound **7**.

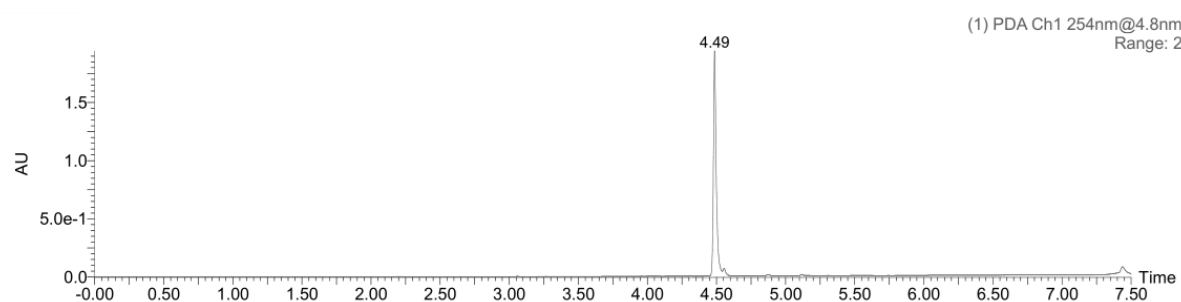


Figure S92. HPLC chromatogram of compound **8**.

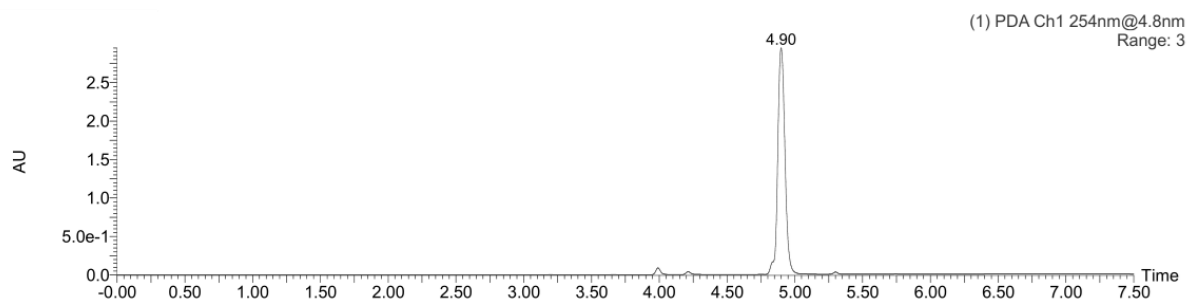


Figure S93. HPLC chromatogram of compound **9**.

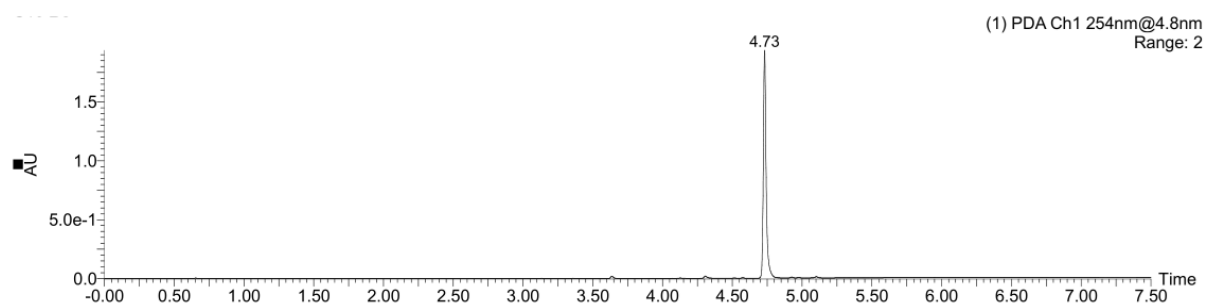


Figure S94. HPLC chromatogram of compound **10**.

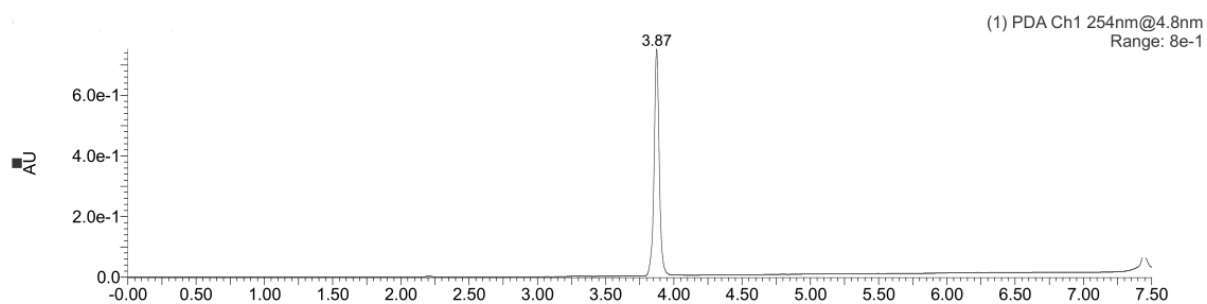


Figure S95. HPLC chromatogram of compound **11**.

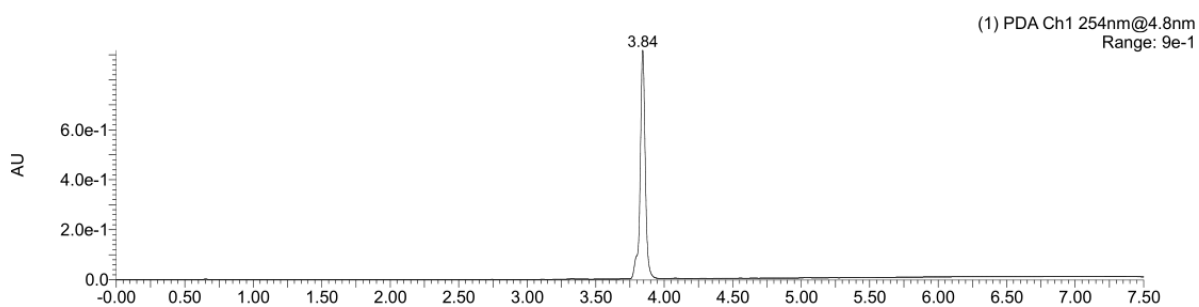


Figure S96. HPLC chromatogram of compound **12**.

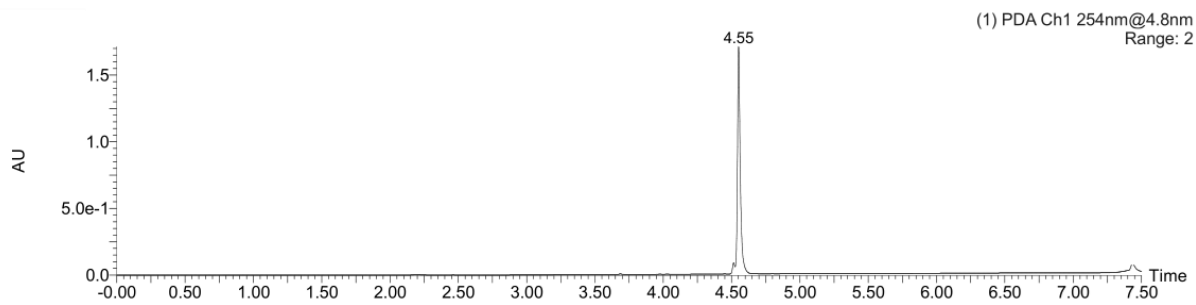


Figure S97. HPLC chromatogram of compound **13**.

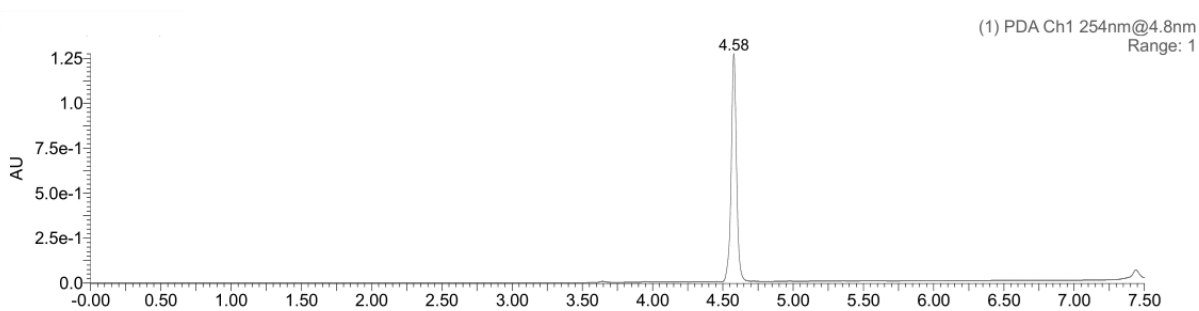


Figure S98. HPLC chromatogram of compound **14**.

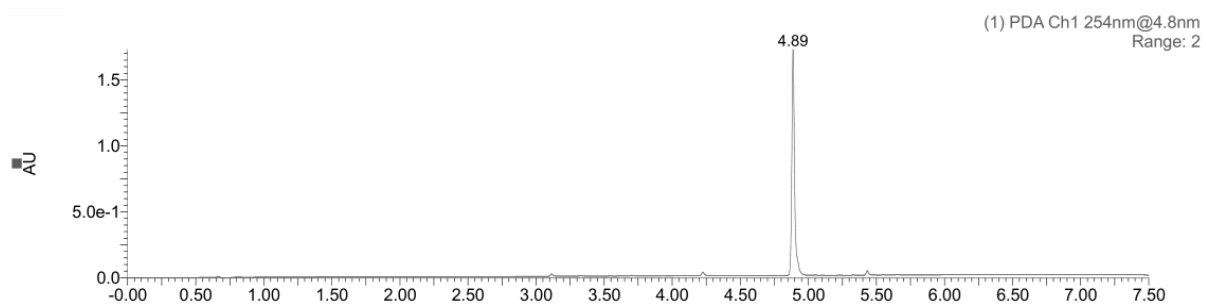


Figure S99. HPLC chromatogram of compound **15**.

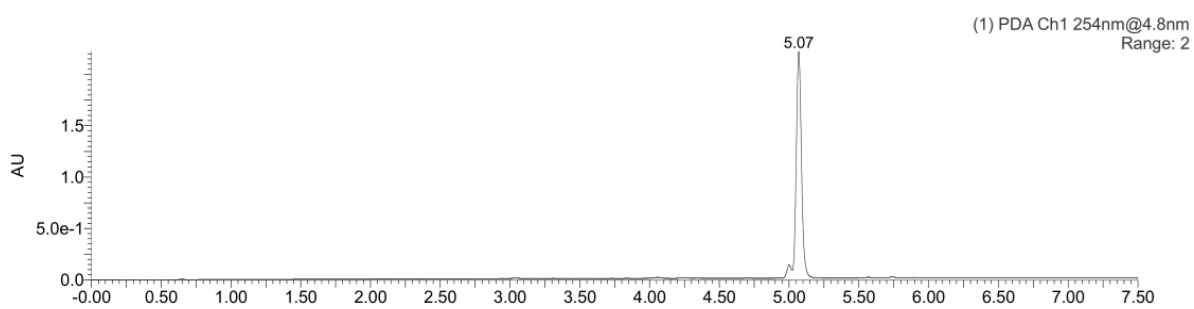


Figure S100. HPLC chromatogram of compound **16**.

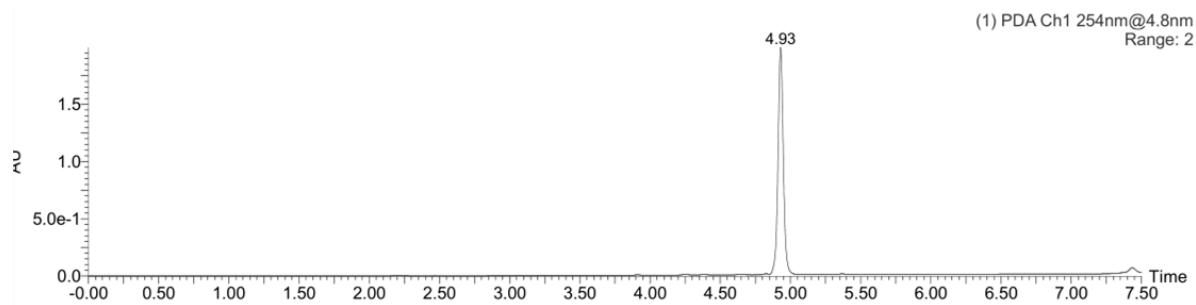


Figure S101. HPLC chromatogram of compound 17.

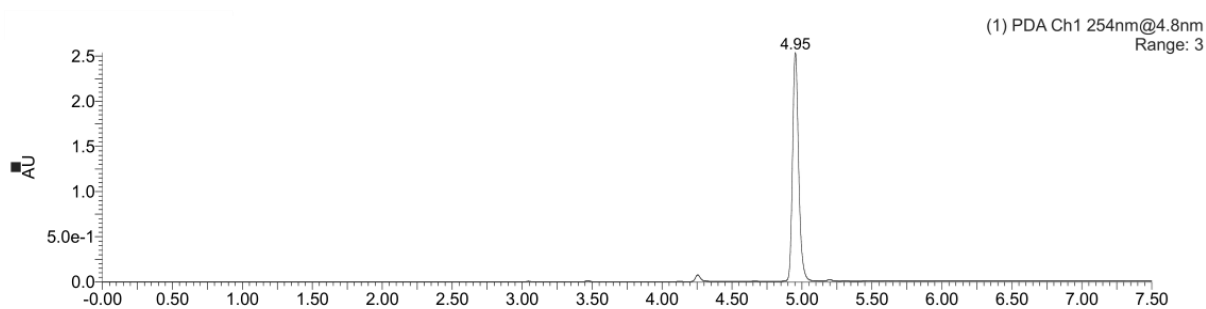


Figure S102. HPLC chromatogram of compound 18.

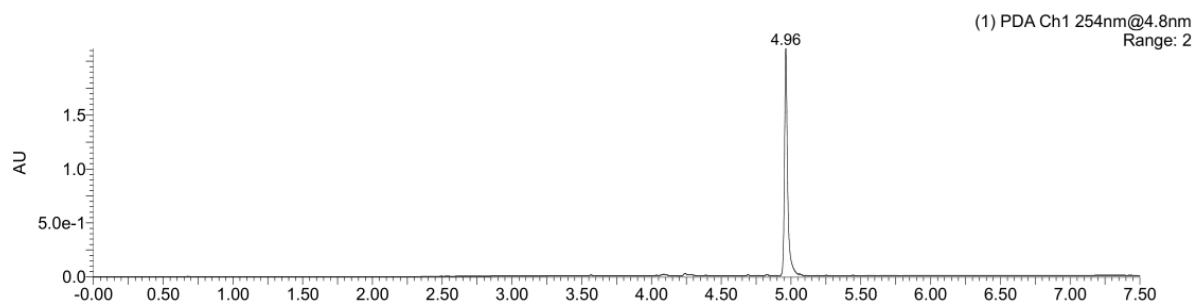


Figure S103. HPLC chromatogram of compound 19.

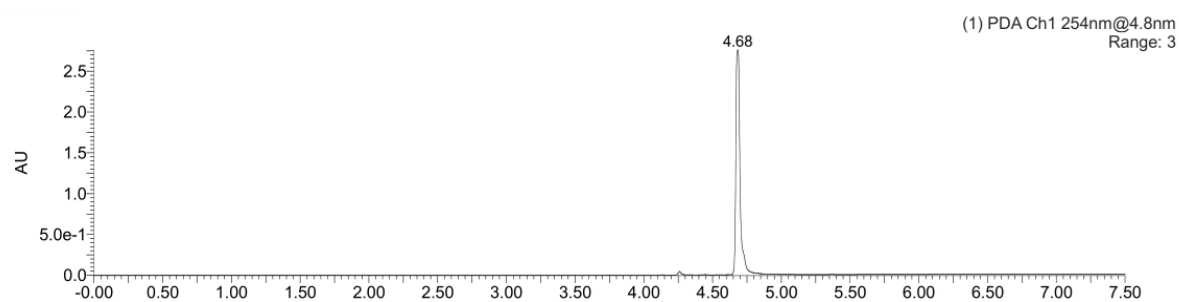


Figure S104. HPLC chromatogram of compound 20.

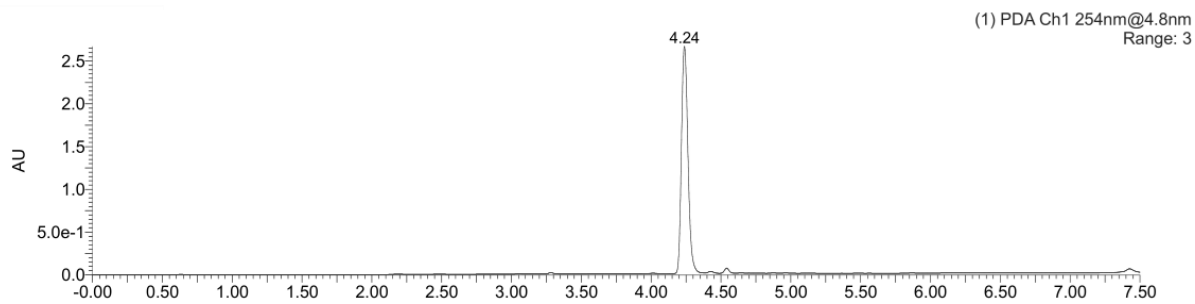


Figure S105. HPLC chromatogram of compound **21**.

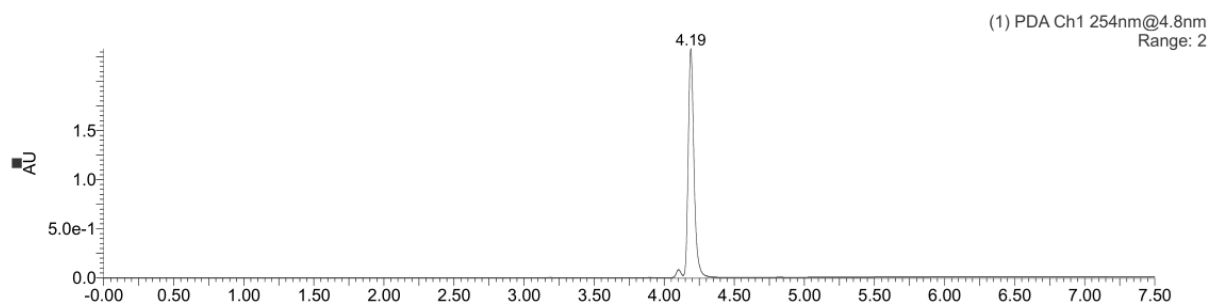


Figure S106. HPLC chromatogram of compound **22**.

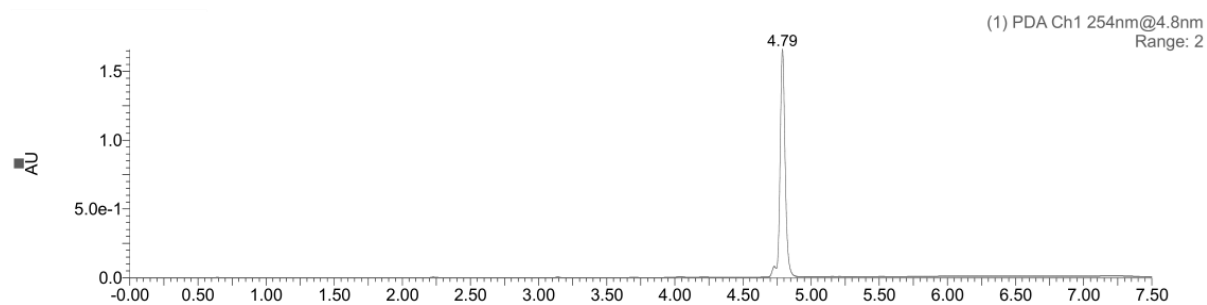


Figure S107. HPLC chromatogram of compound **23**.

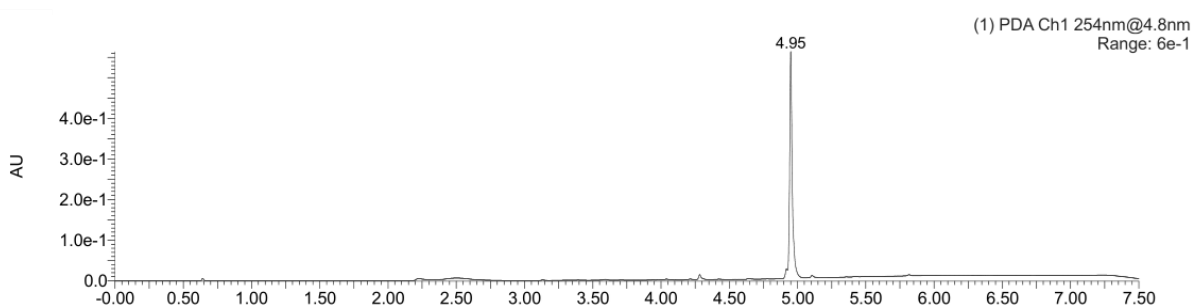


Figure S108. HPLC chromatogram of compound **24**.

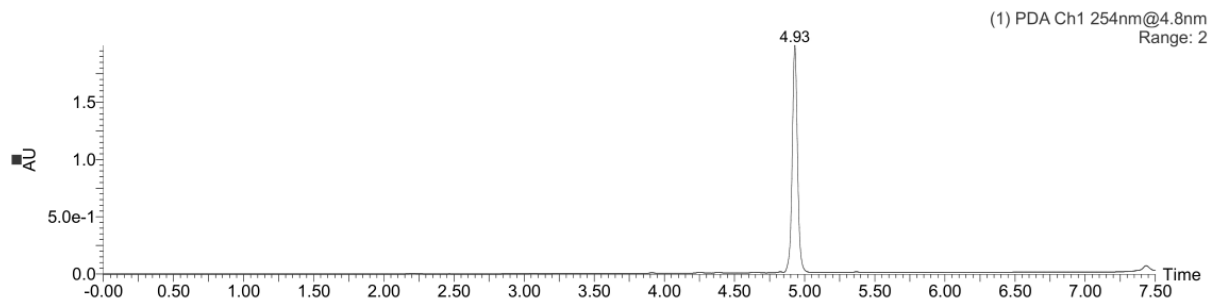


Figure S109. HPLC chromatogram of compound **25**.

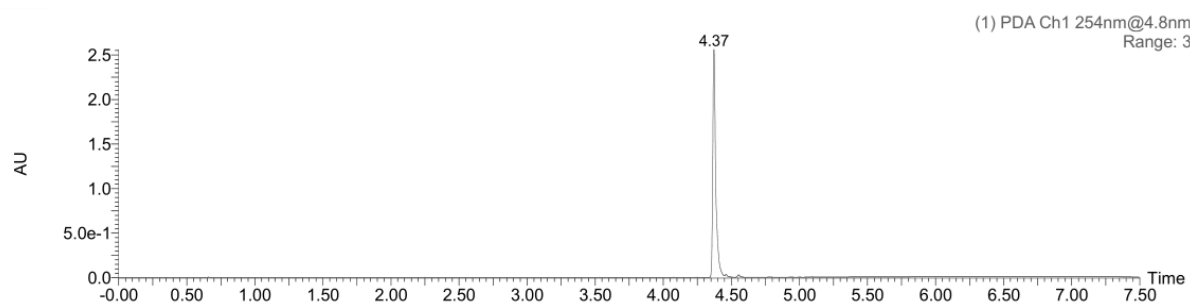


Figure S110. HPLC chromatogram of compound **26**.

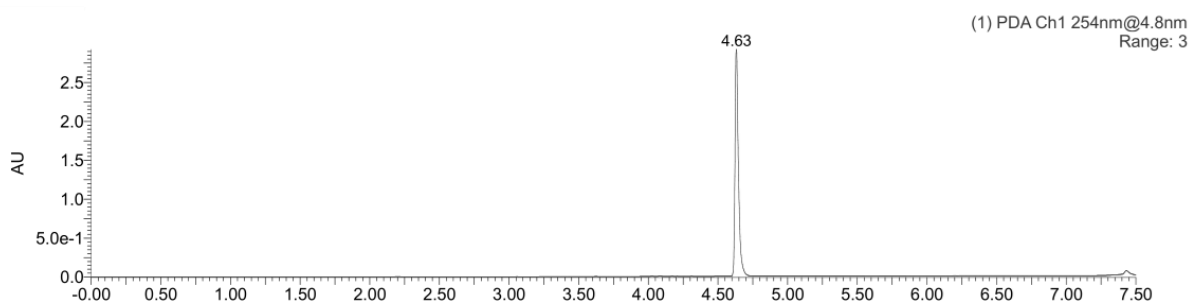


Figure S111. HPLC chromatogram of compound **27**.

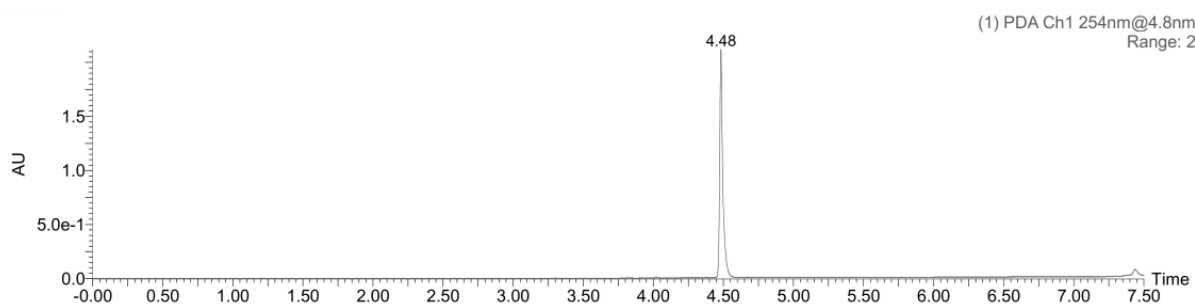
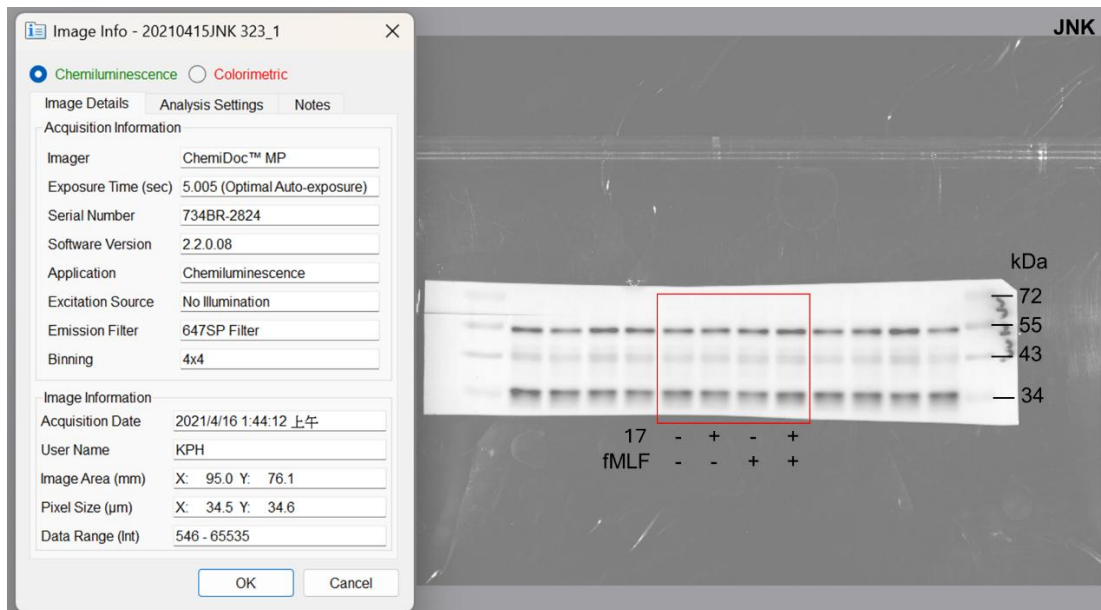
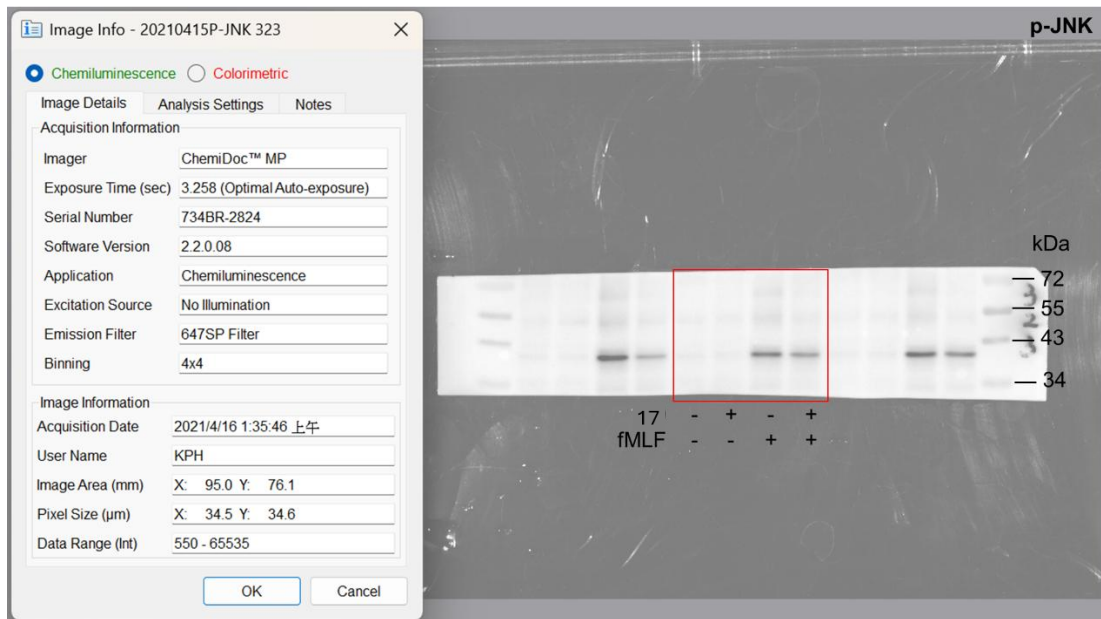
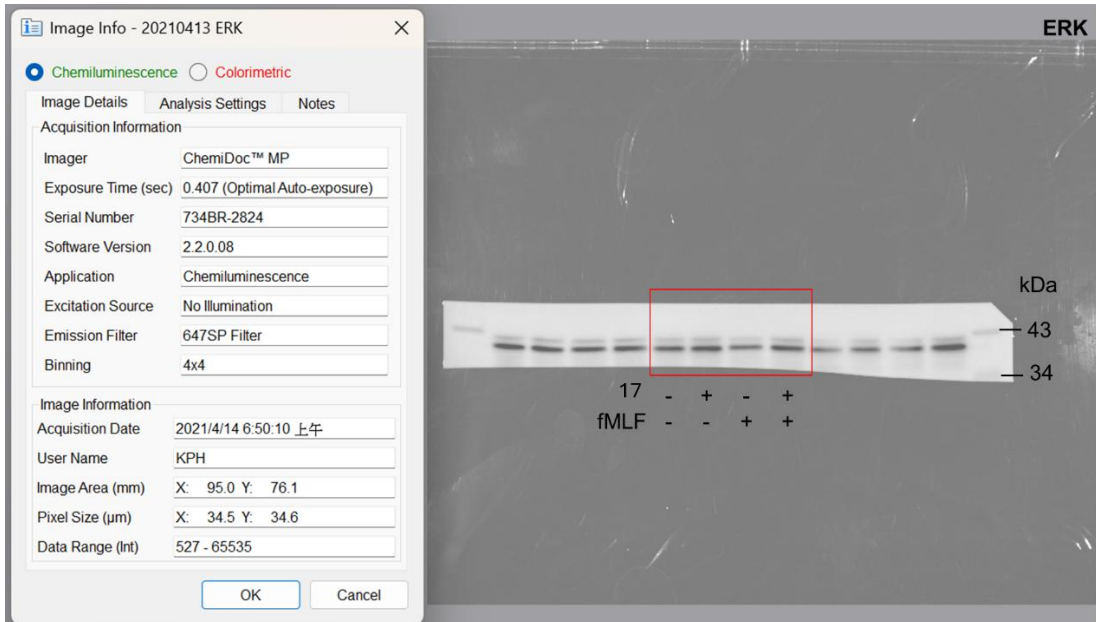
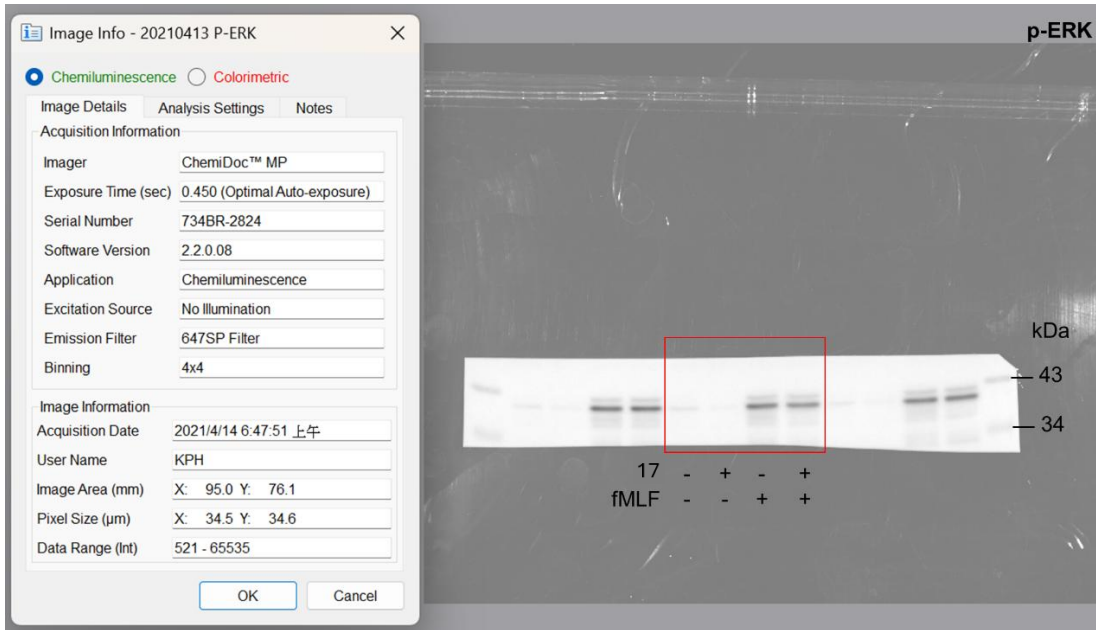
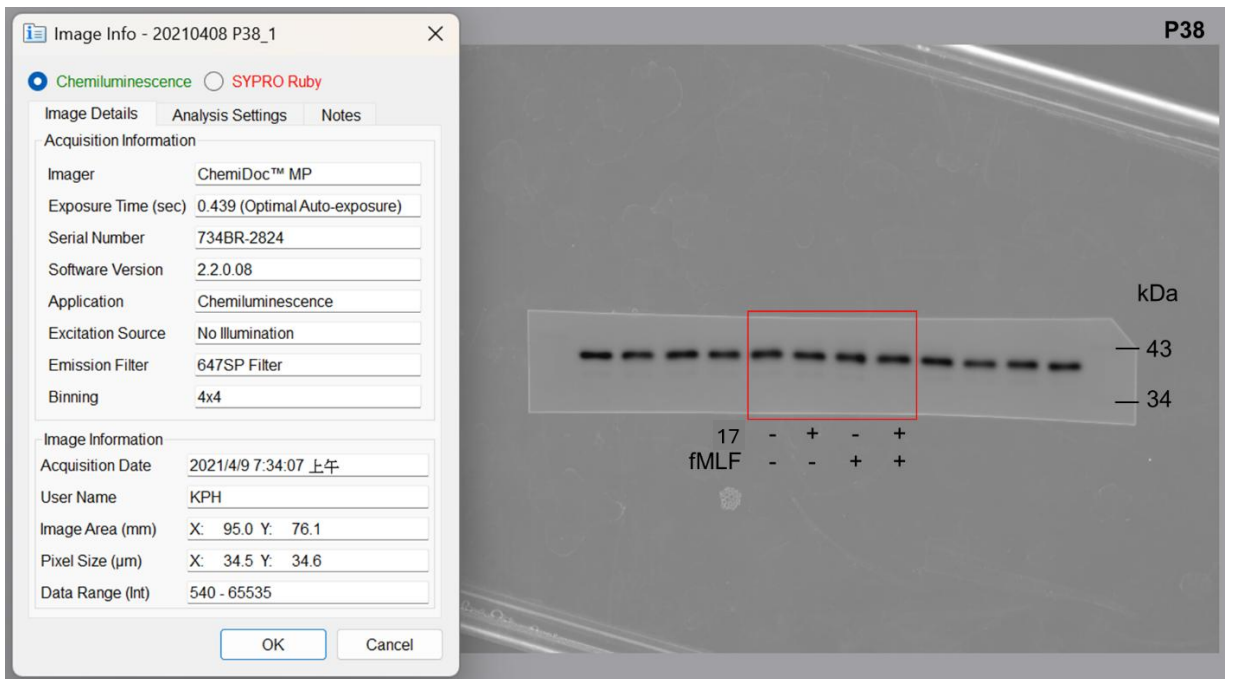
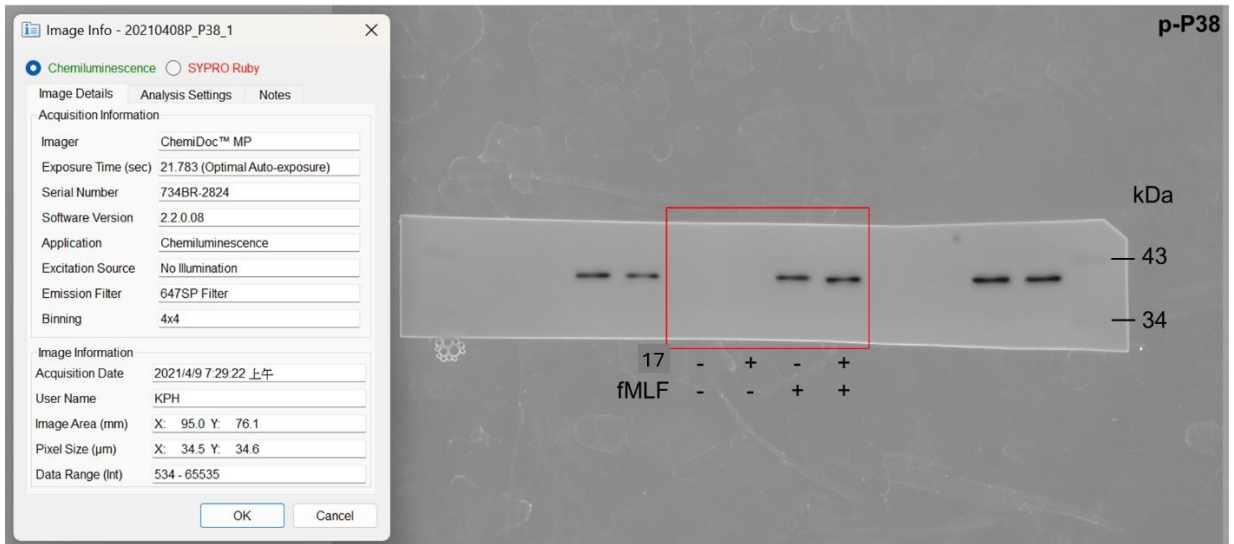


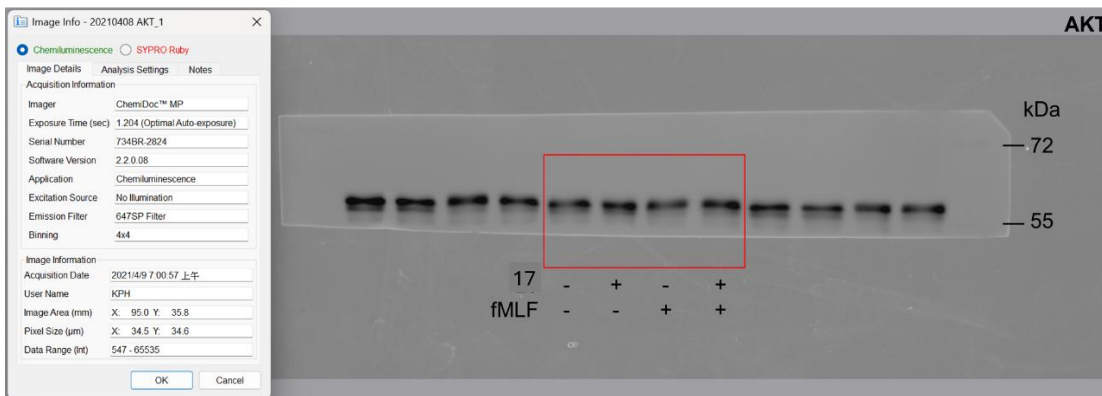
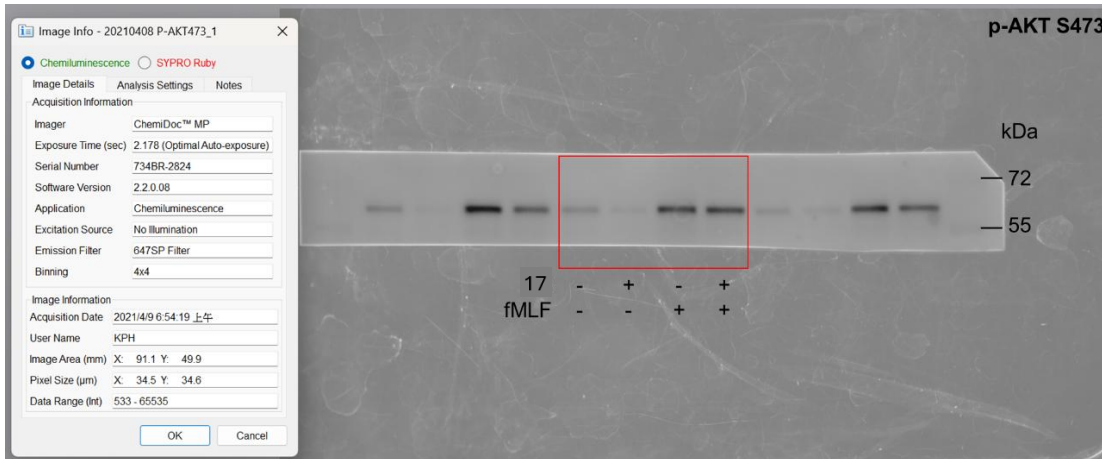
Figure S112. HPLC chromatogram of compound **28**.

Original images for Western blots in Figure 5



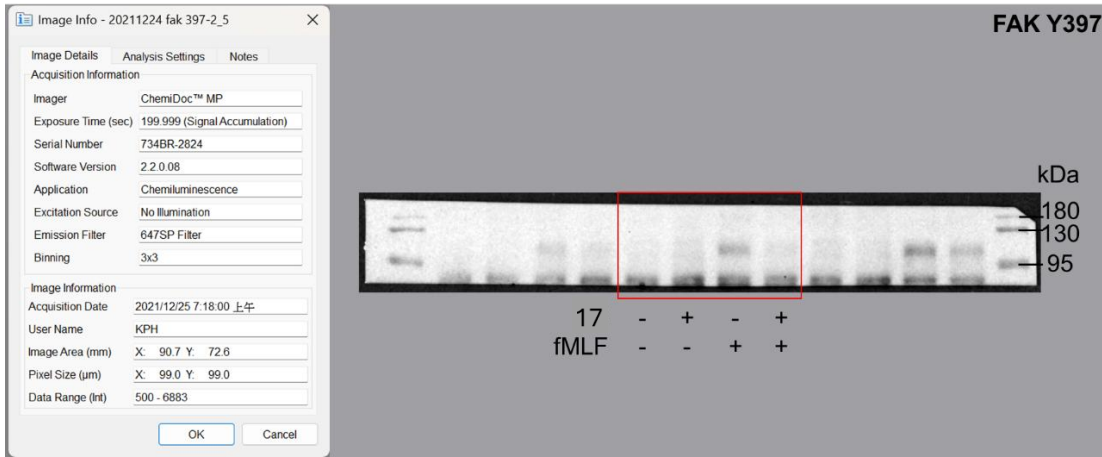




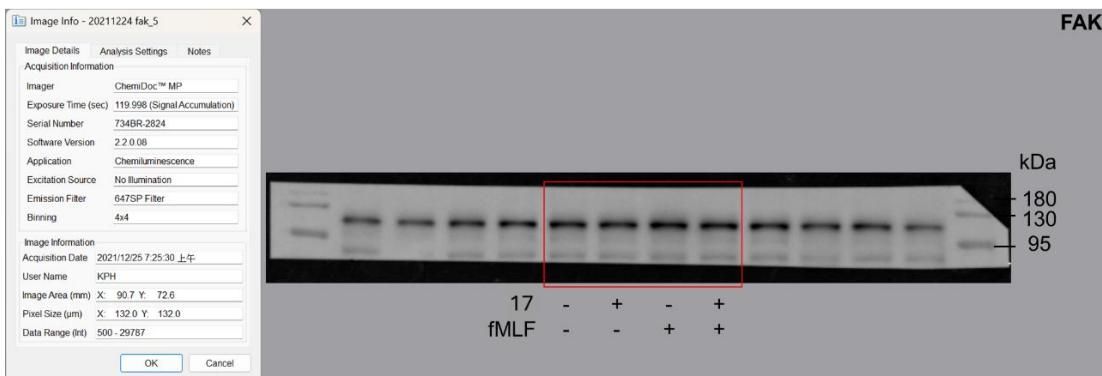


Original images for Western blots in Figure 6

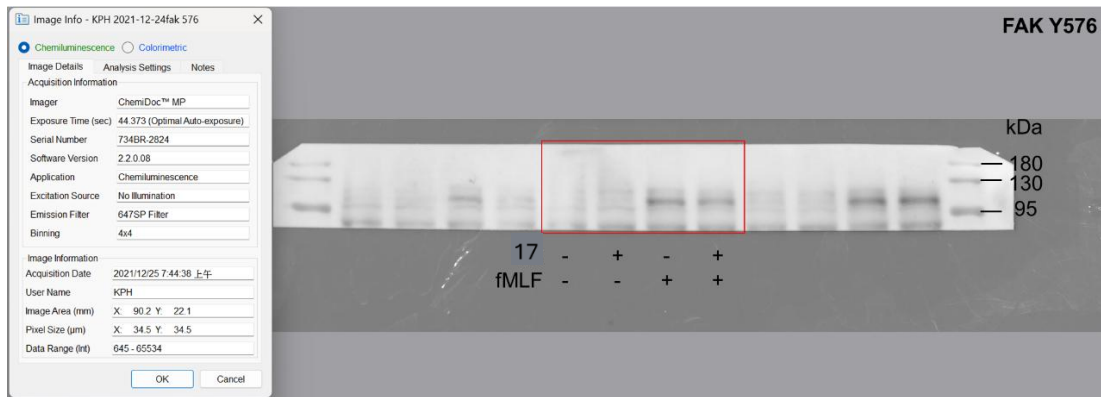
p-FAK Y397



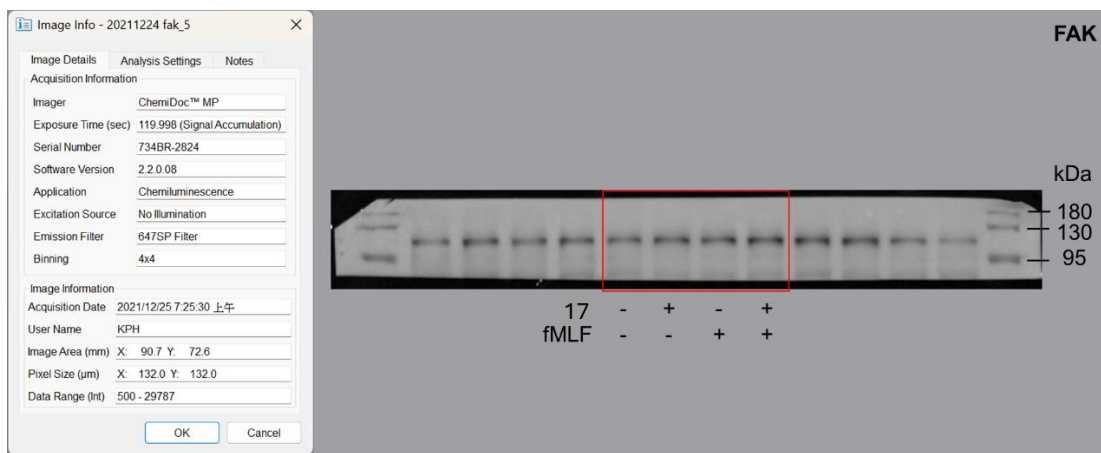
FAK for p-FAK Y397



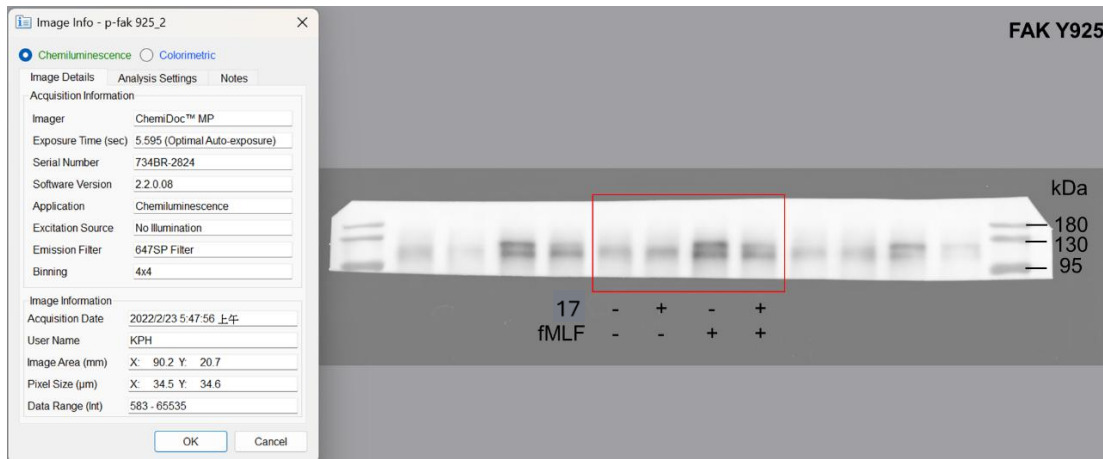
p-FAK Y576



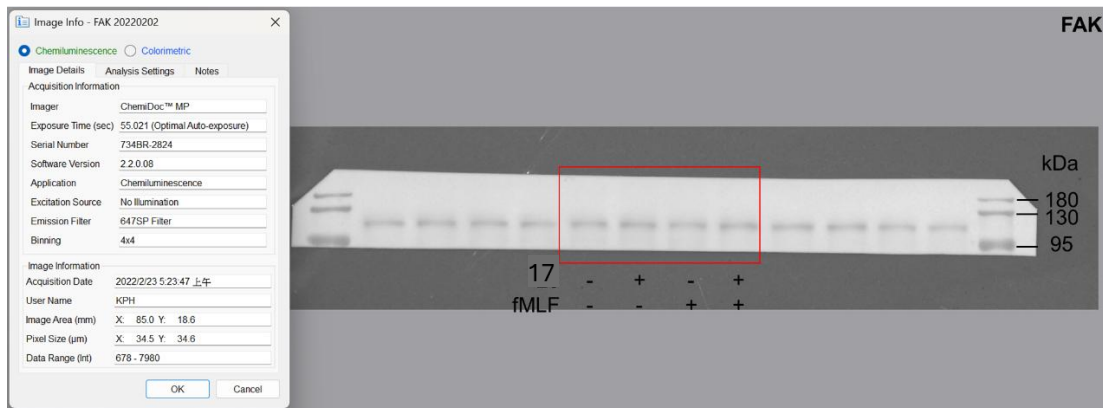
FAK for p-FAK Y576



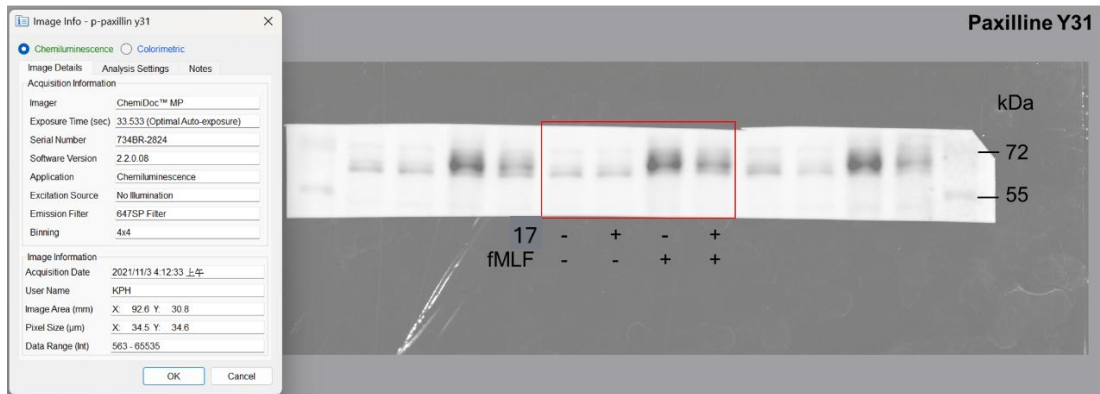
p-FAK Y925



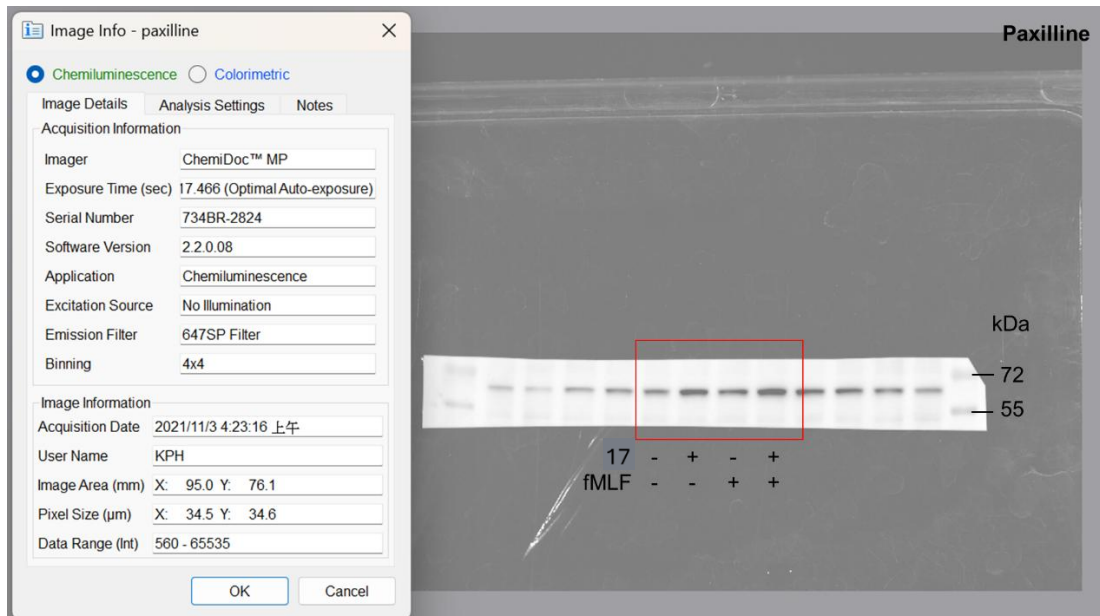
FAK for p-FAK Y925



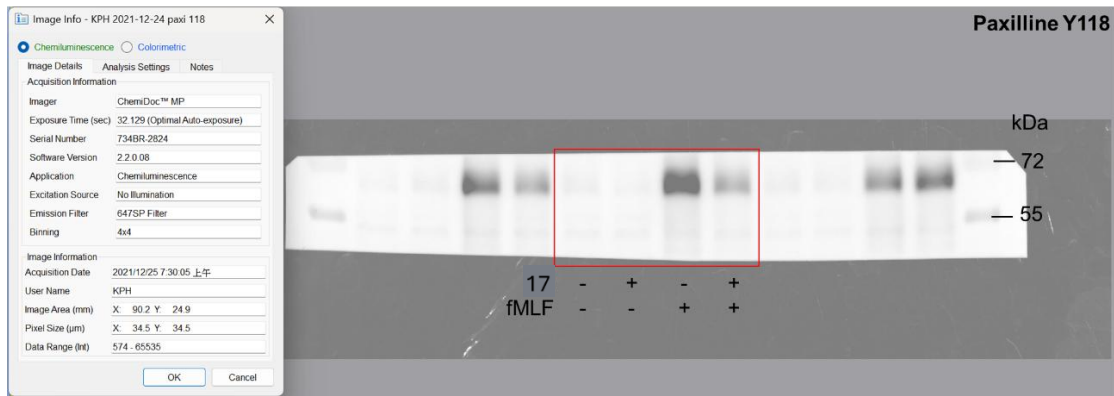
p-Pax Y31



Pax for p-Pax Y31



p-Pax Y118



Pax for p-Pax Y118

