

Synthesis and biological activity of some novel quinolones from 1-ethyl-1,2-dihydro-4-hydroxy-2-oxoquinoline-3-carbaldehyde

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Supplimentry data

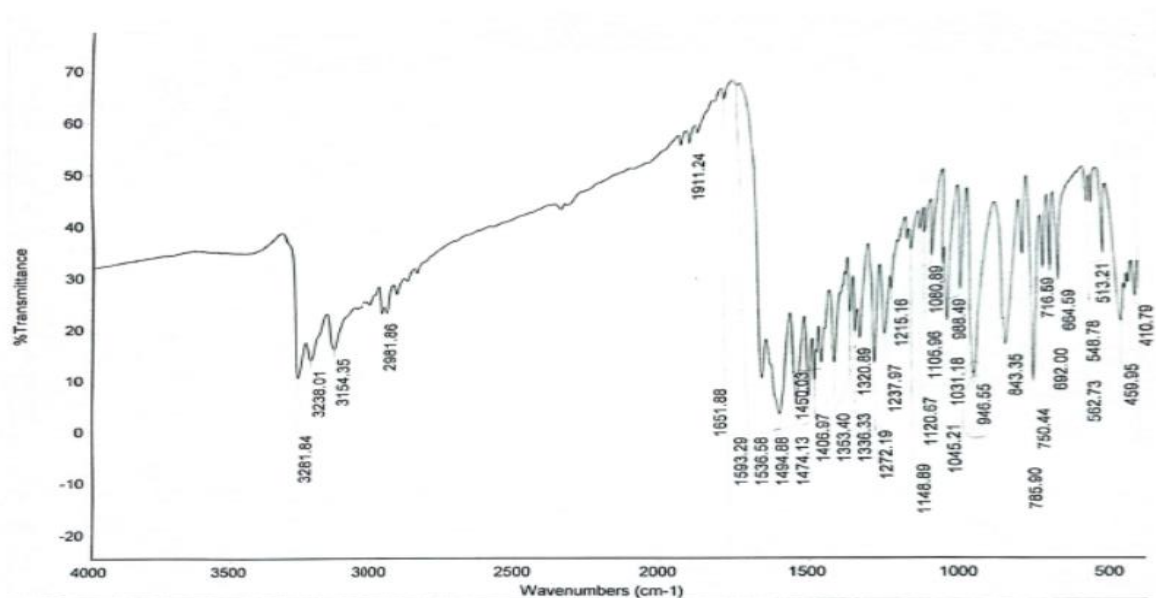


Chart 1. IR of compound 2a

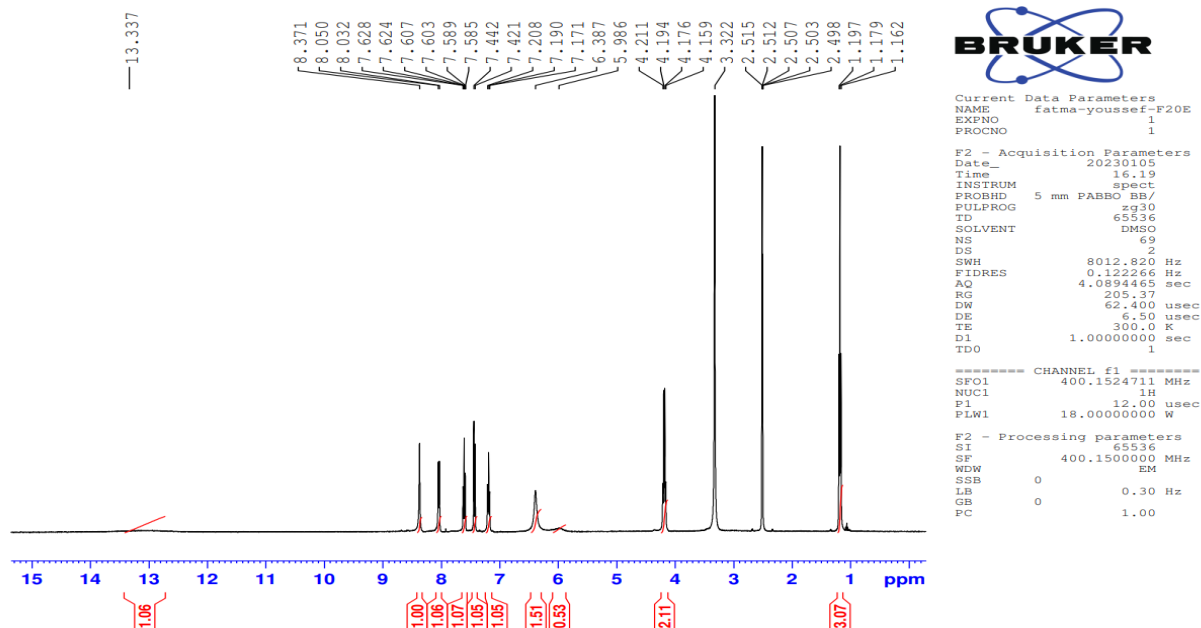


Chart 2. ^1H NMR of compound 2a (DMSO)

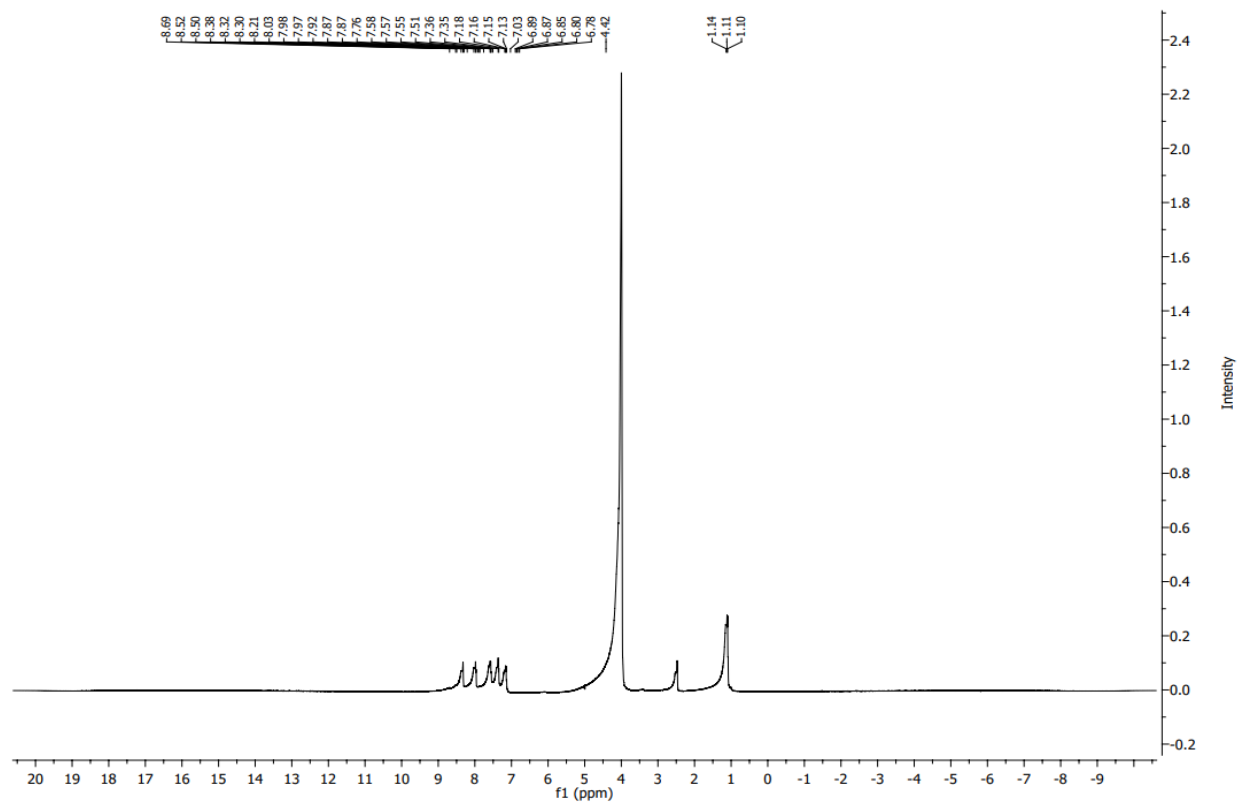


Chart 3. ^1H NMR of compound 2a (DMSO-D₂O)

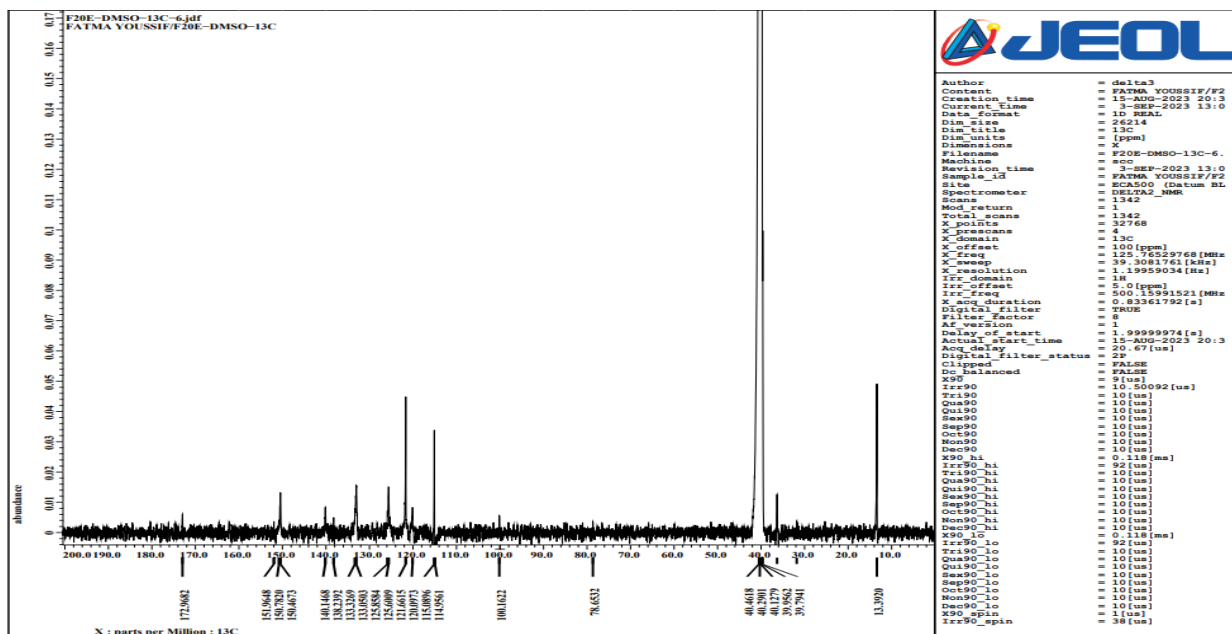


Chart 4. ^{13}C NMR of compound 2a (DMSO)

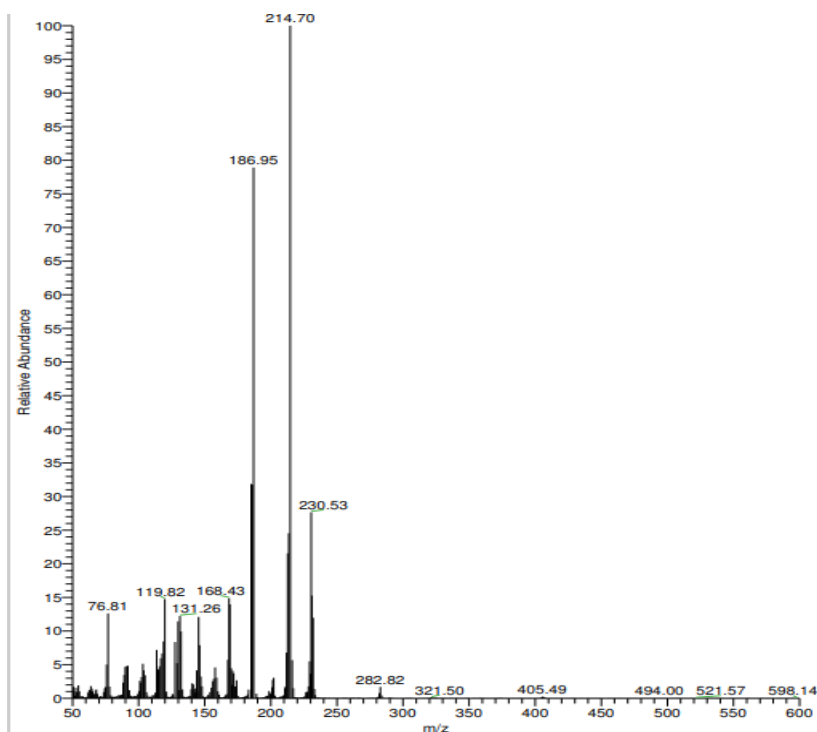


Chart 5. Mass of compound 2a

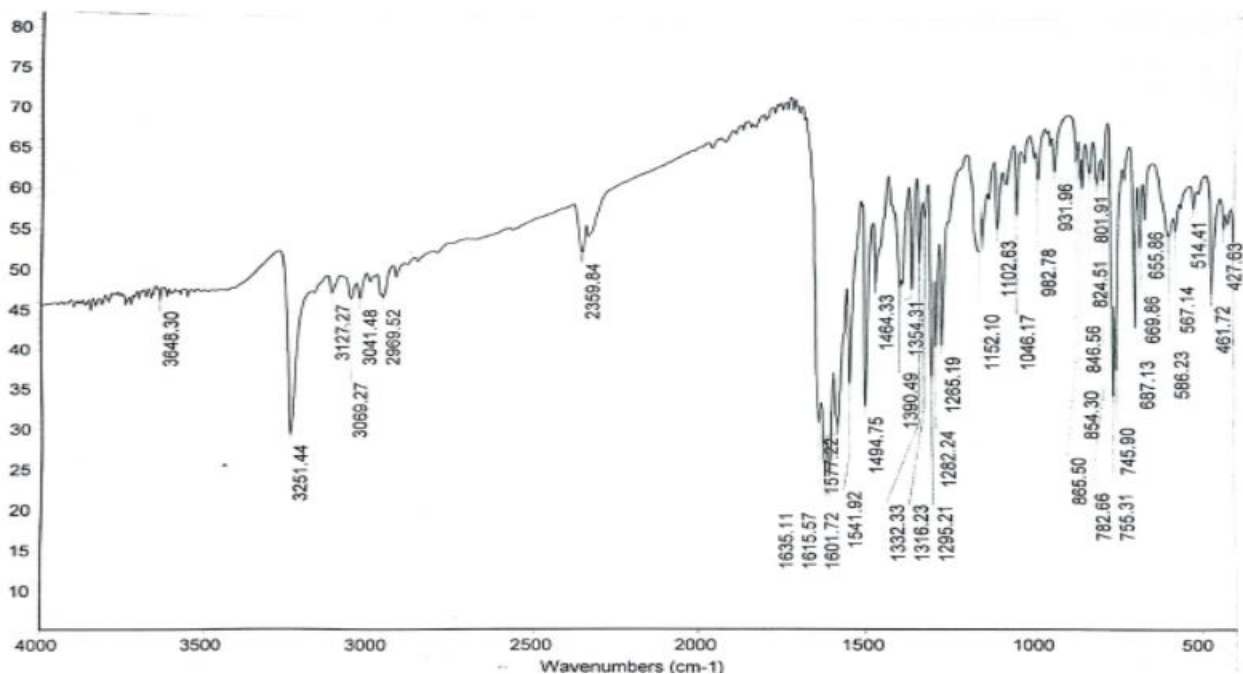


Chart 6. IR of compound 2b

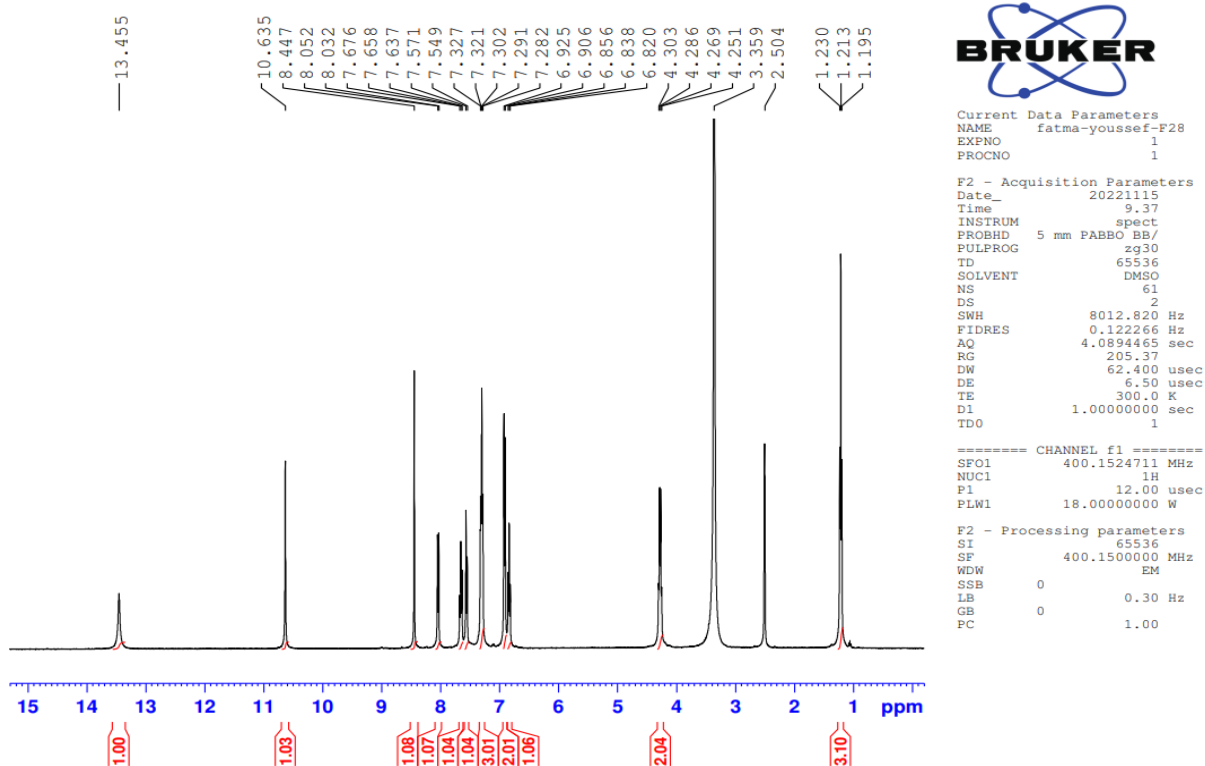


Chart 7. ¹H NMR of compound 2b (DMSO)

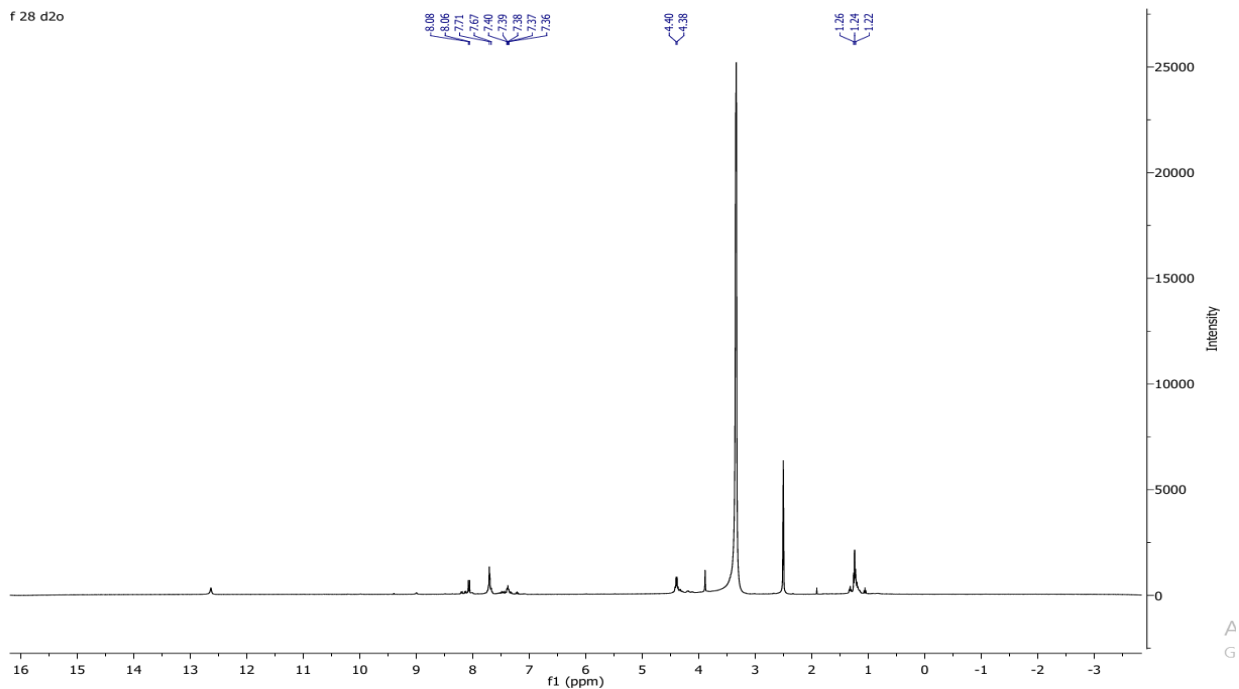


Chart 8. ^1H NMR of compound 2b (DMSO\(<>\text{D}_2\text{O}\))

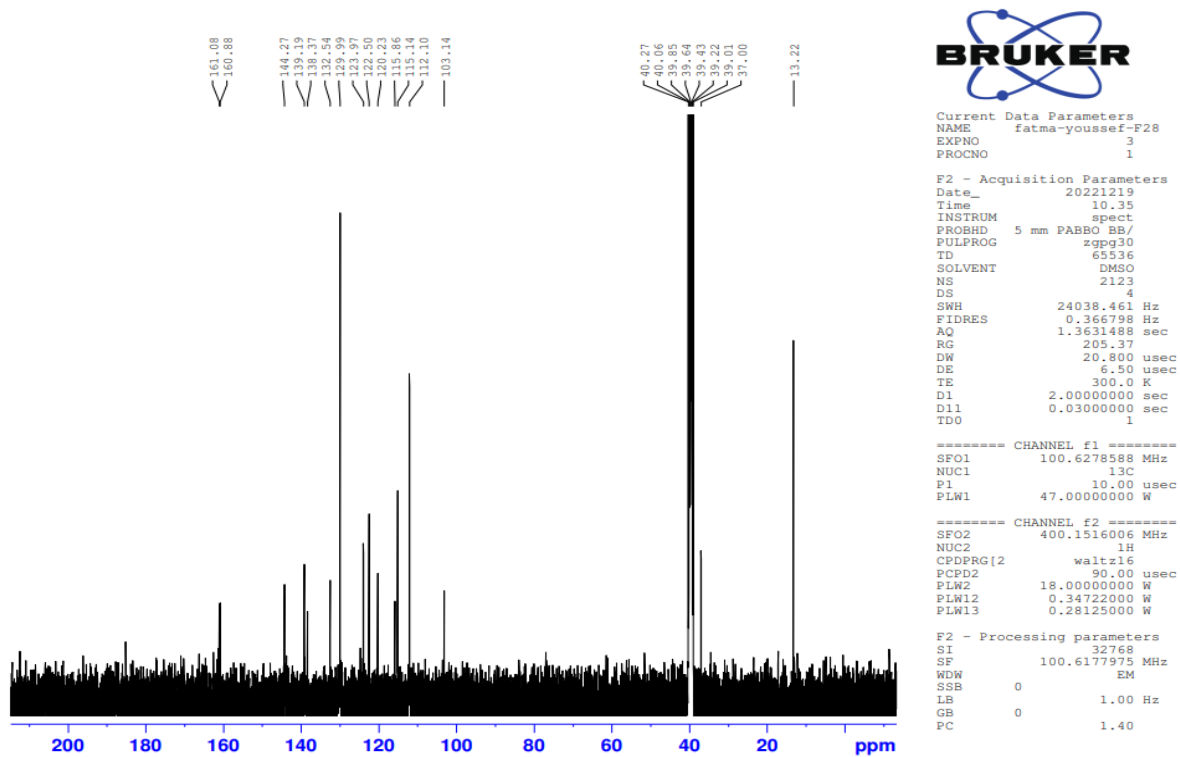


Chart 9. ^{13}C NMR of compound 2b (DMSO)

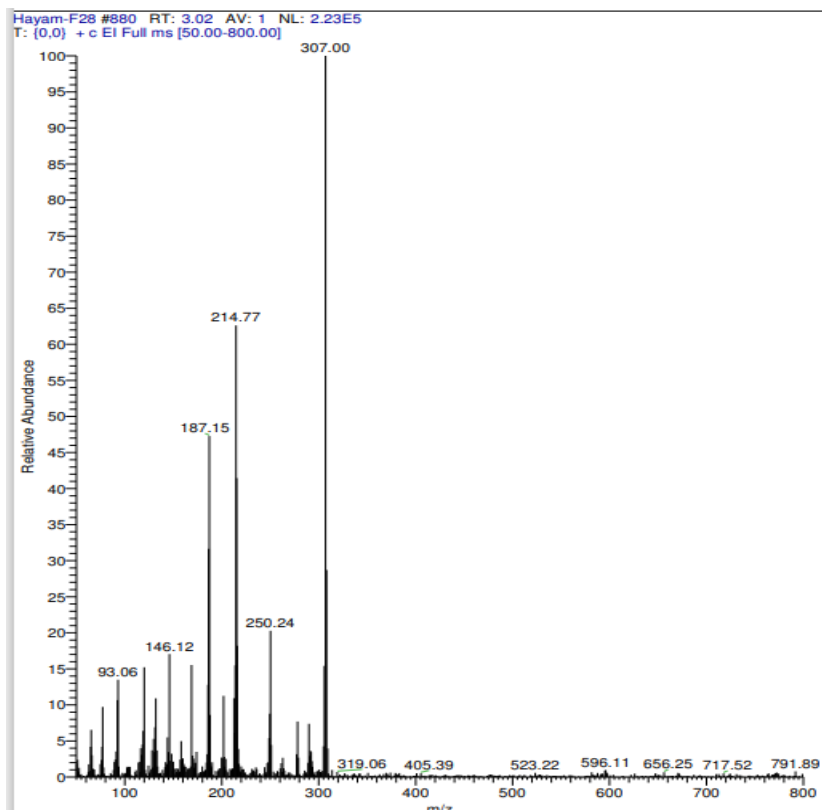


Chart 10. Mass of compound 2b

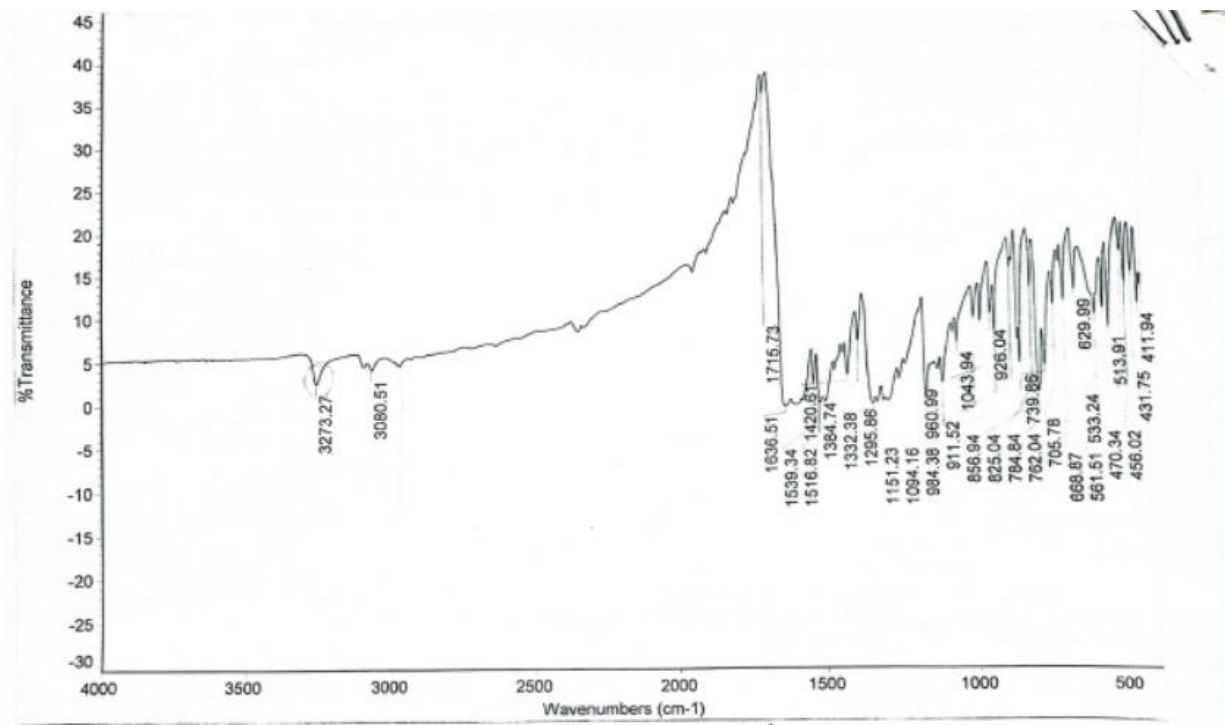


Chart 11. IR of compound 2

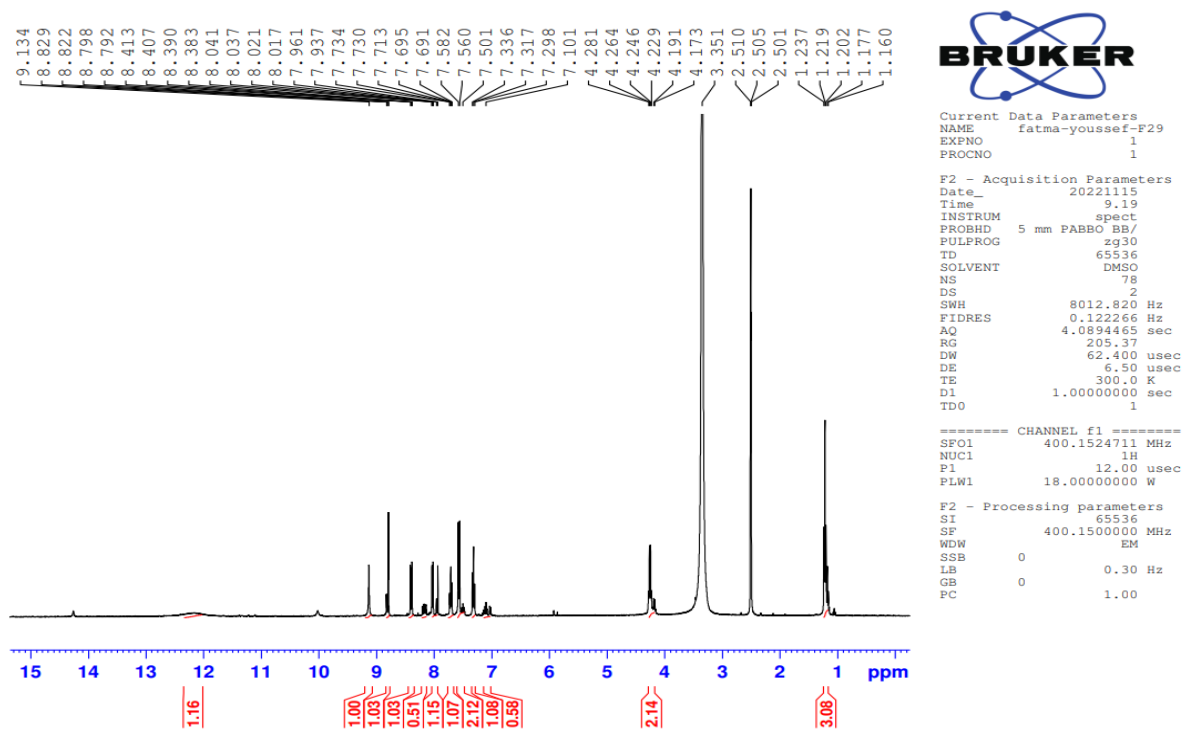


Chart 12. ^1H NMR of compound 2c (DMSO)

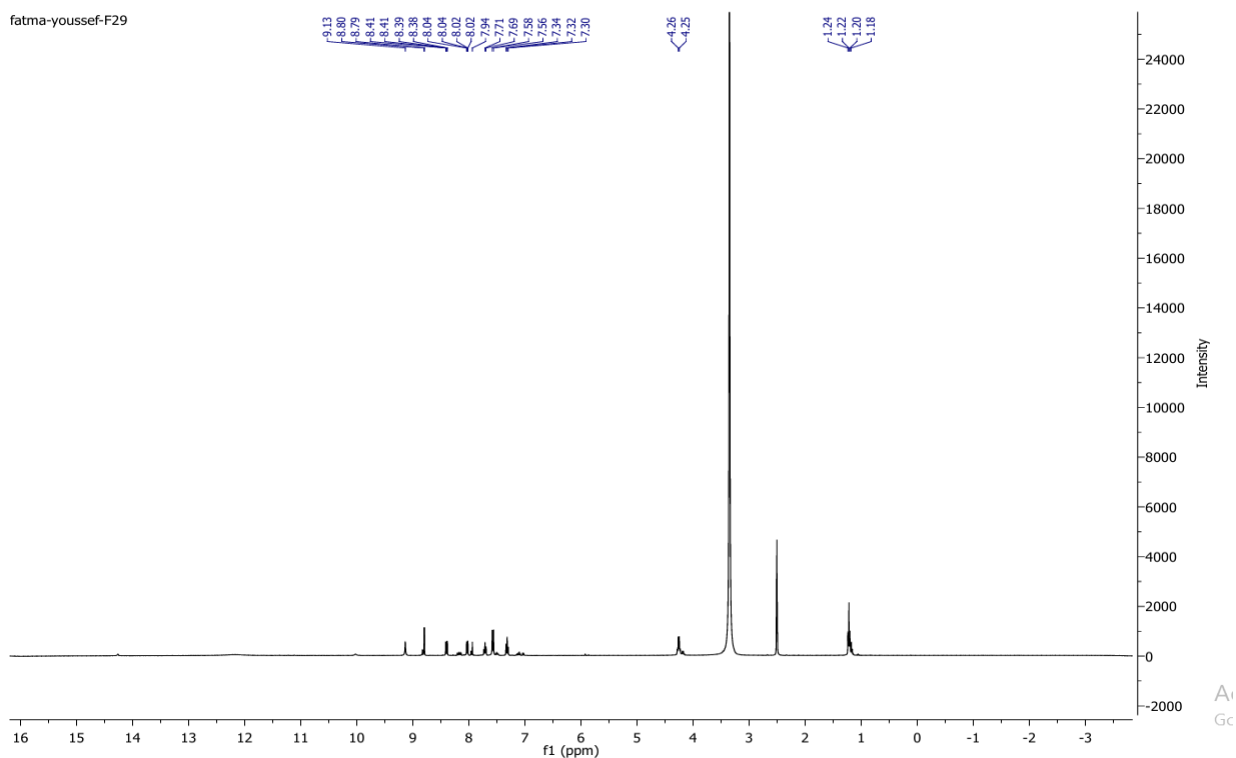


Chart 13. ^1H NMR of compound 2c (DMSO- D_2O)

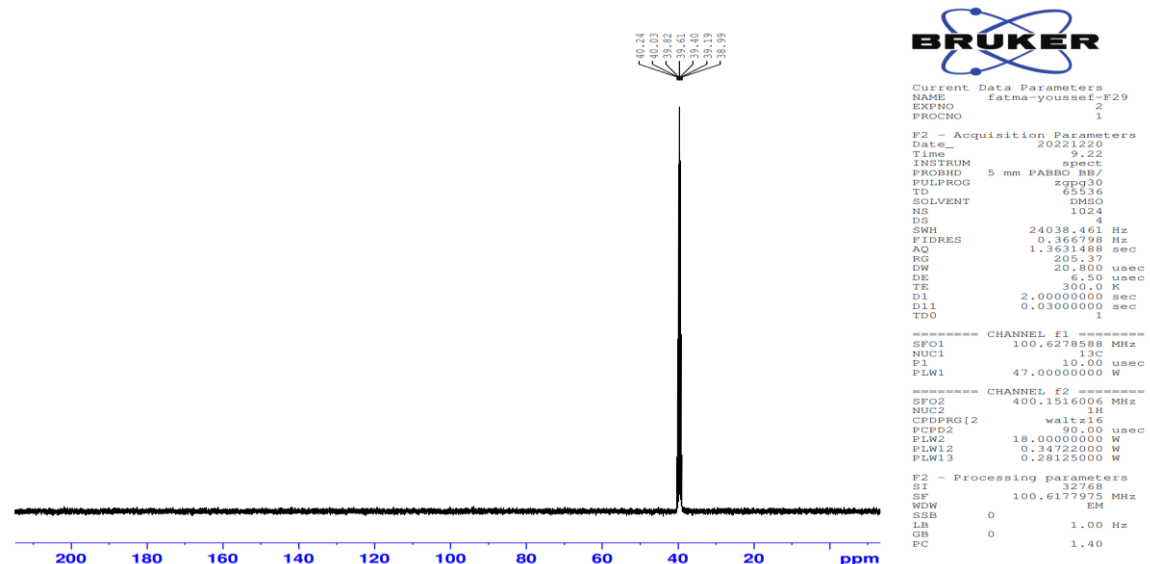


Chart 14. ^{13}C NMR of compound 2c (DMSO)

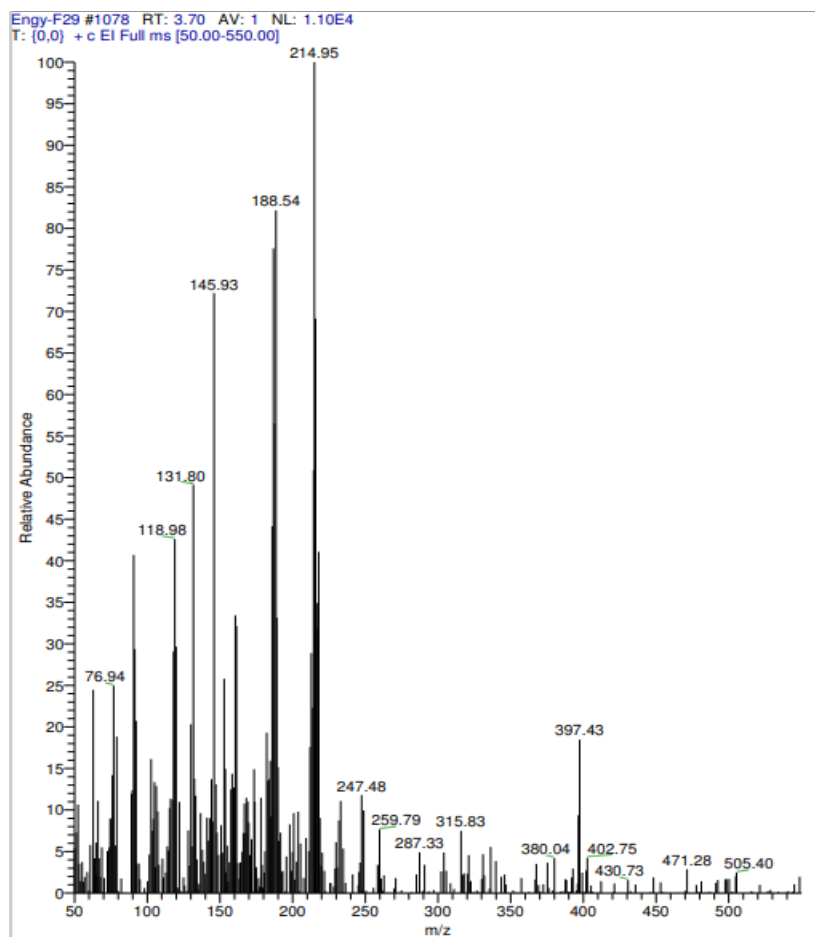


Chart 15. Mass of compound 2c

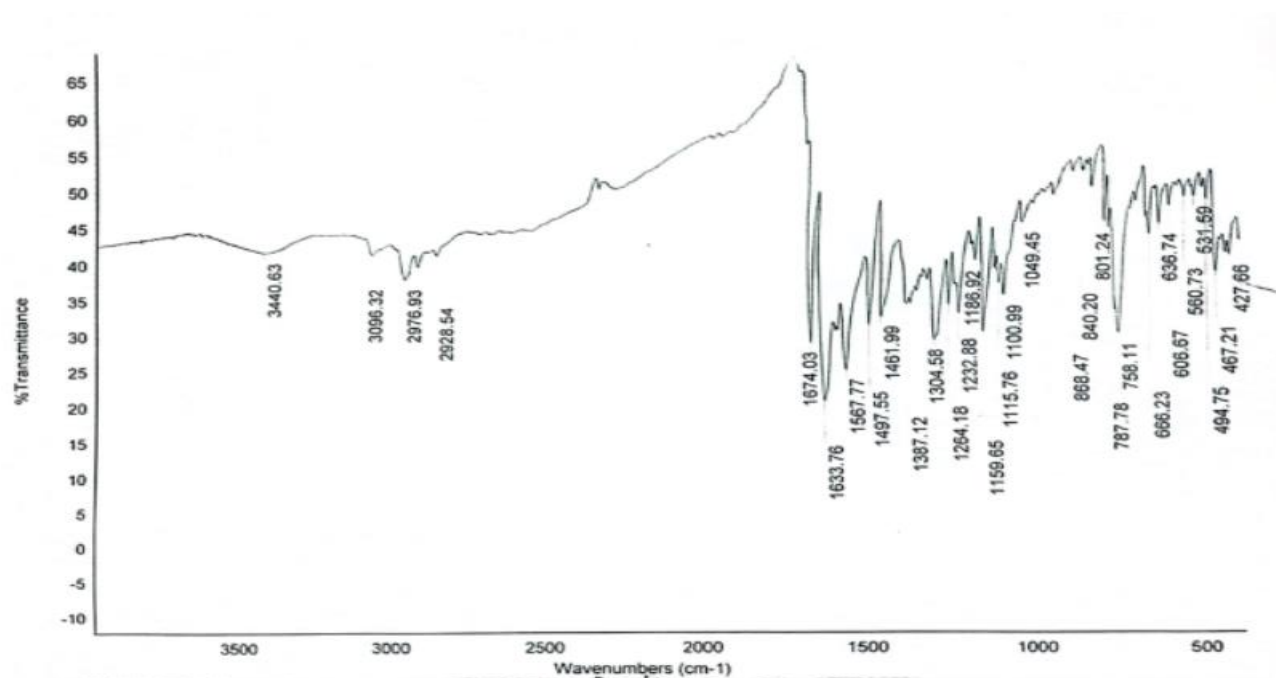


Chart 16. IR of compound 3a

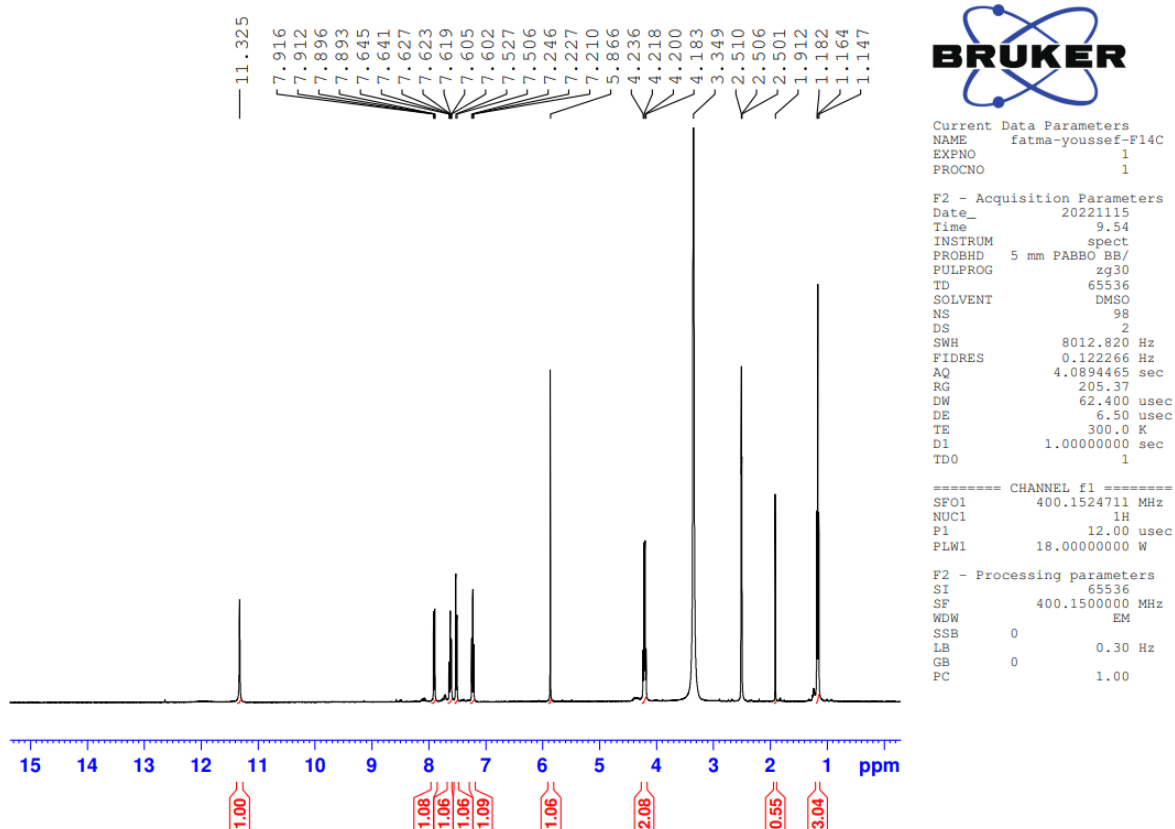


Chart 17. ¹HNMR of compound 3a (DMSO)

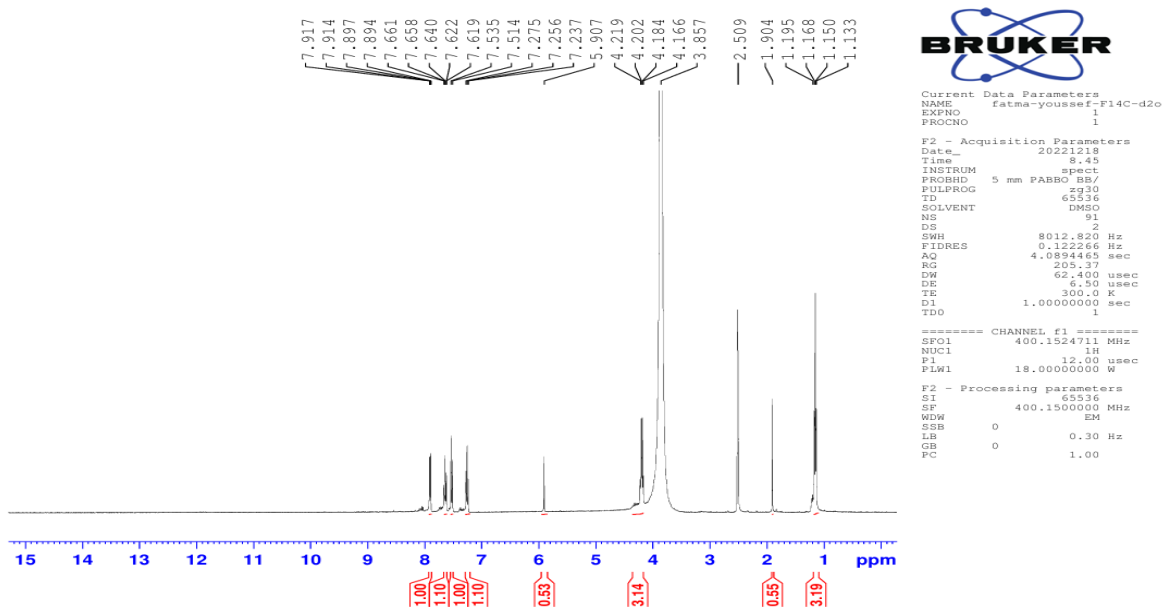


Chart 18. ^1H NMR of compound 3a (DMSO\(<>\text{D}_2\text{O})

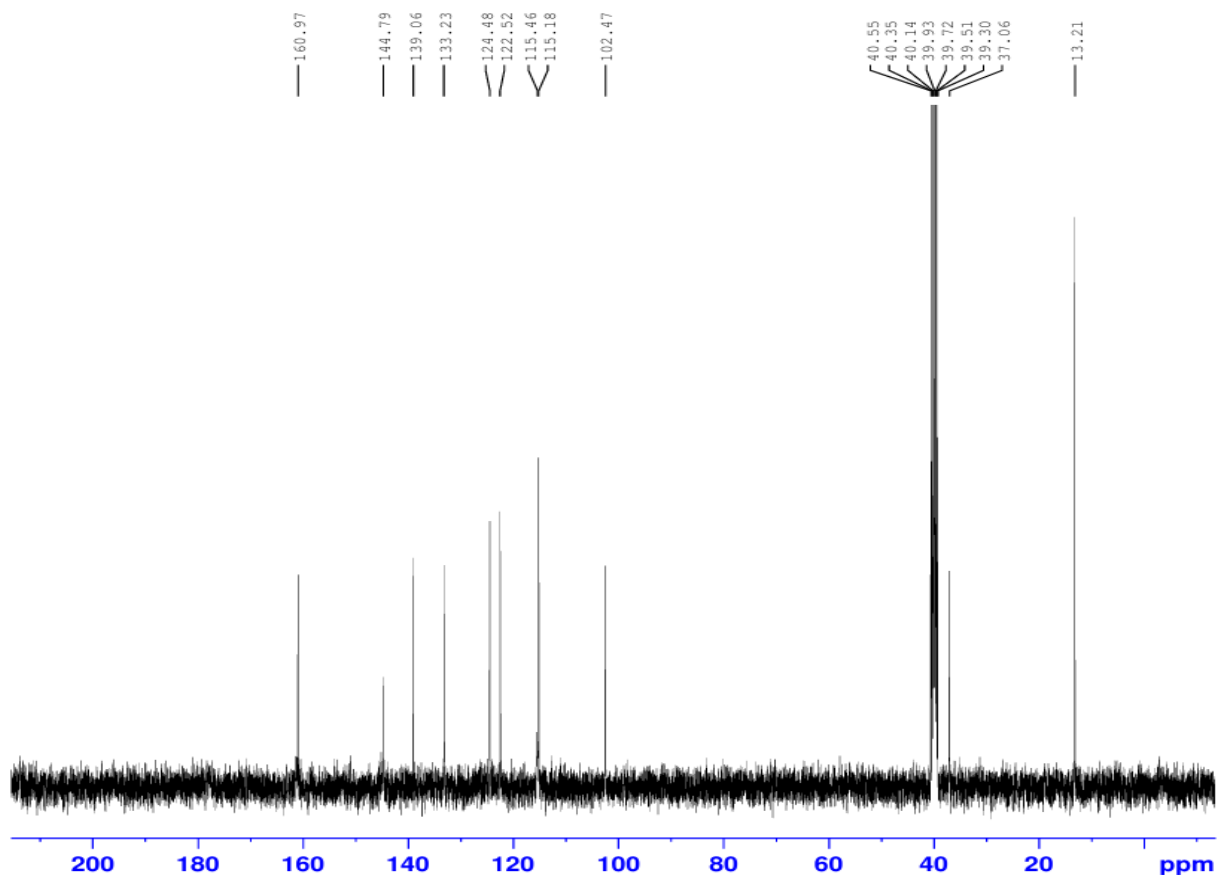


Chart 19. ^{13}C NMR of compound 3a (DMSO)

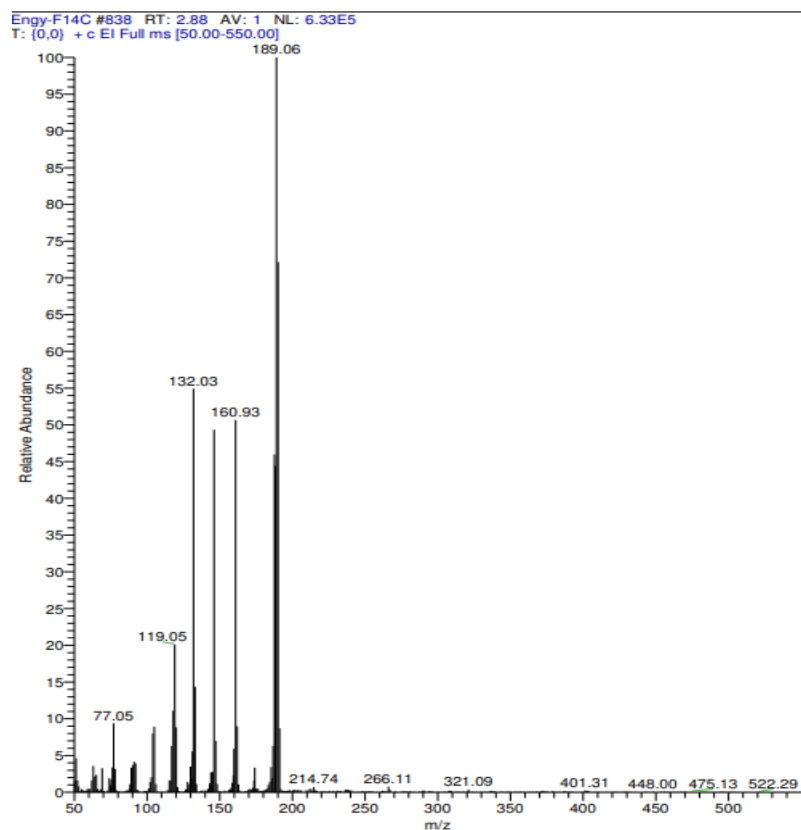


Chart 20. Mass of compound 3a

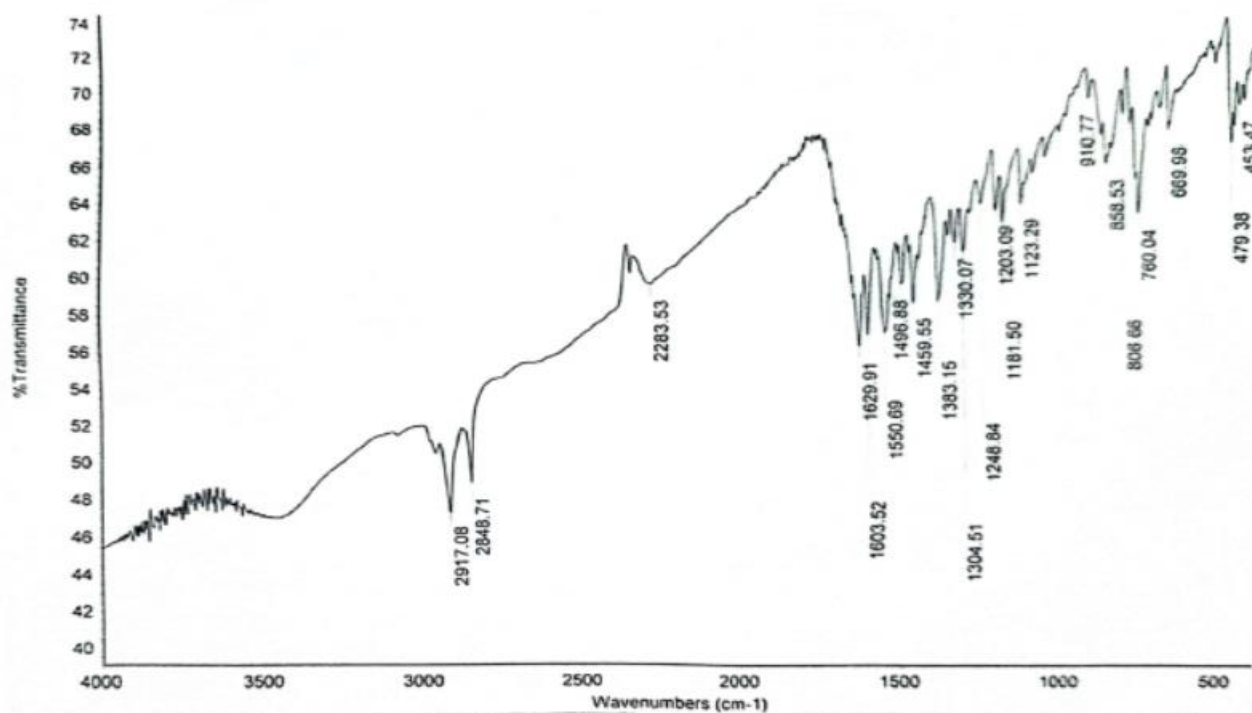


Chart 21. IR of compound 3b

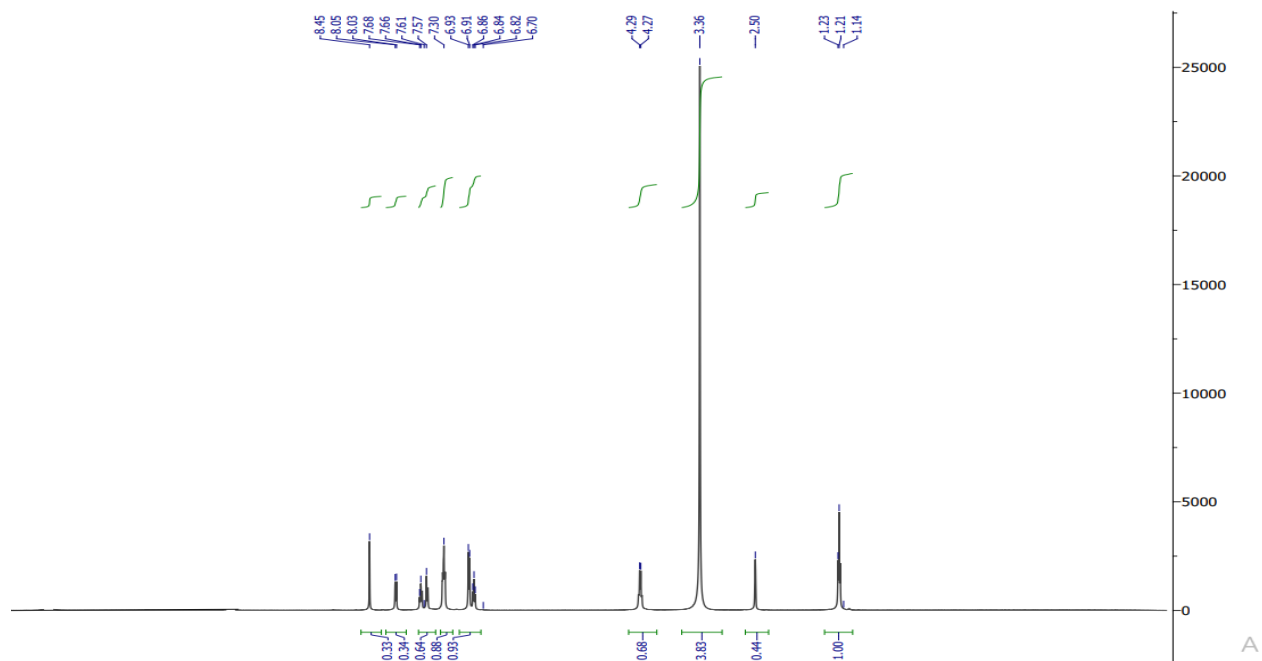


Chart 22. ¹H NMR of compound 3b

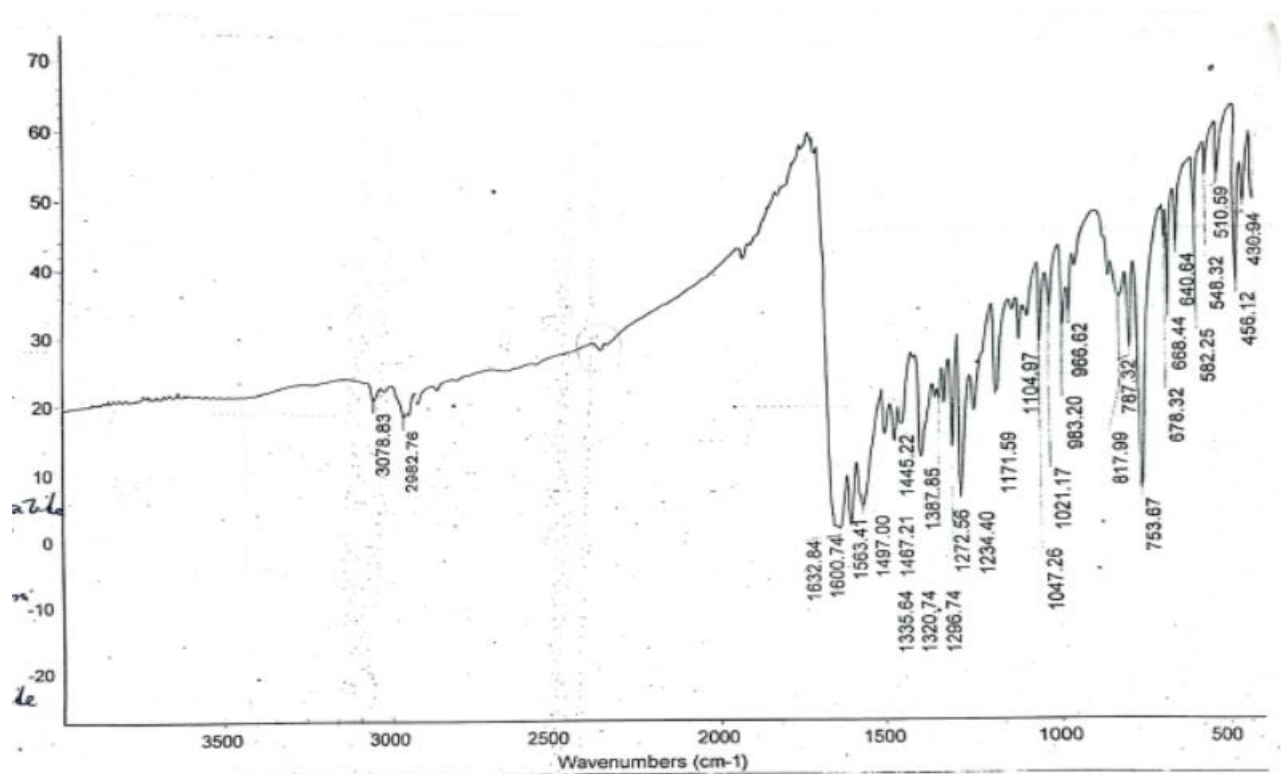


Chart 23. IR of compound 4

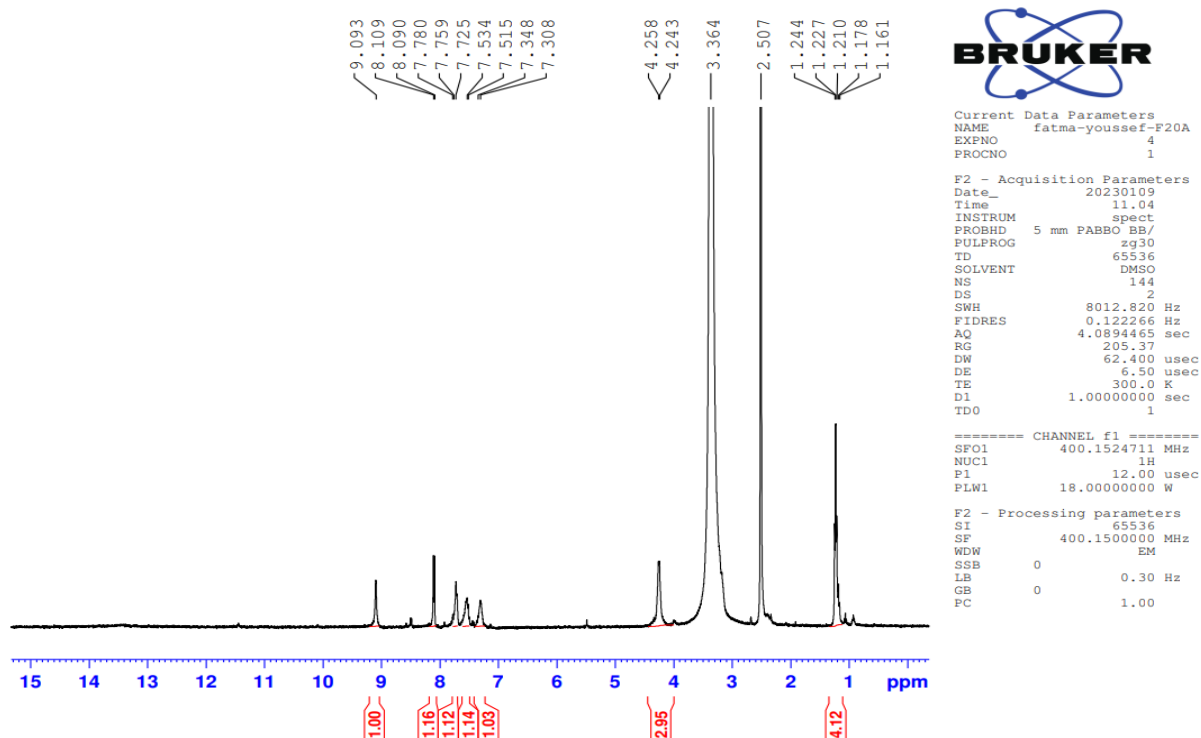


Chart 24. ^1H NMR of compound 4 (DMSO)

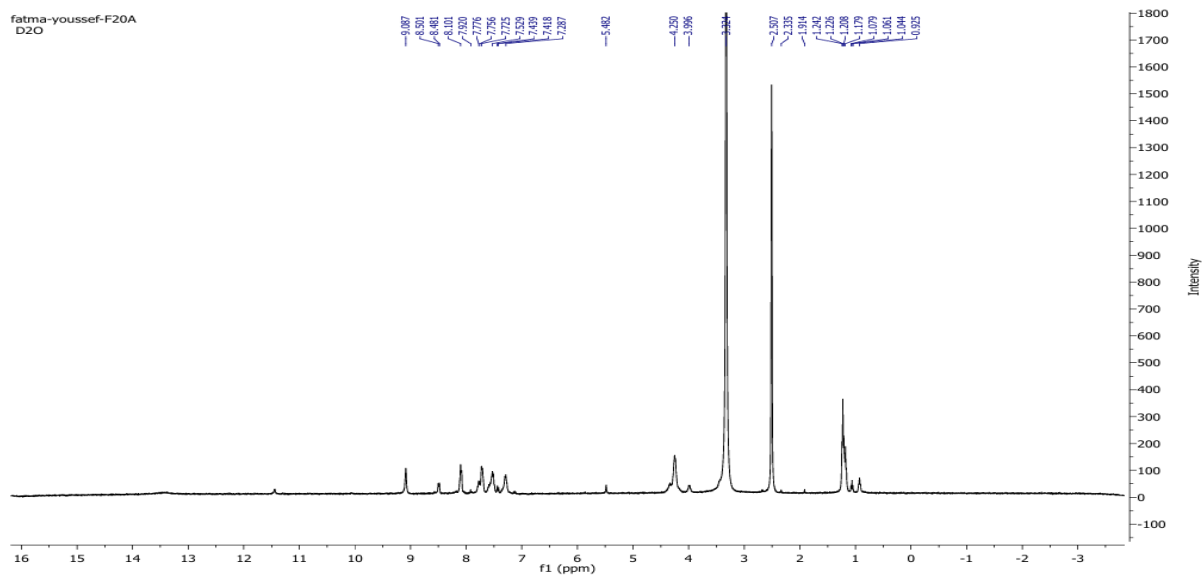


Chart 25. ^1H NMR of compound 4 (DMSO\(\text{D}_2\text{O}\))

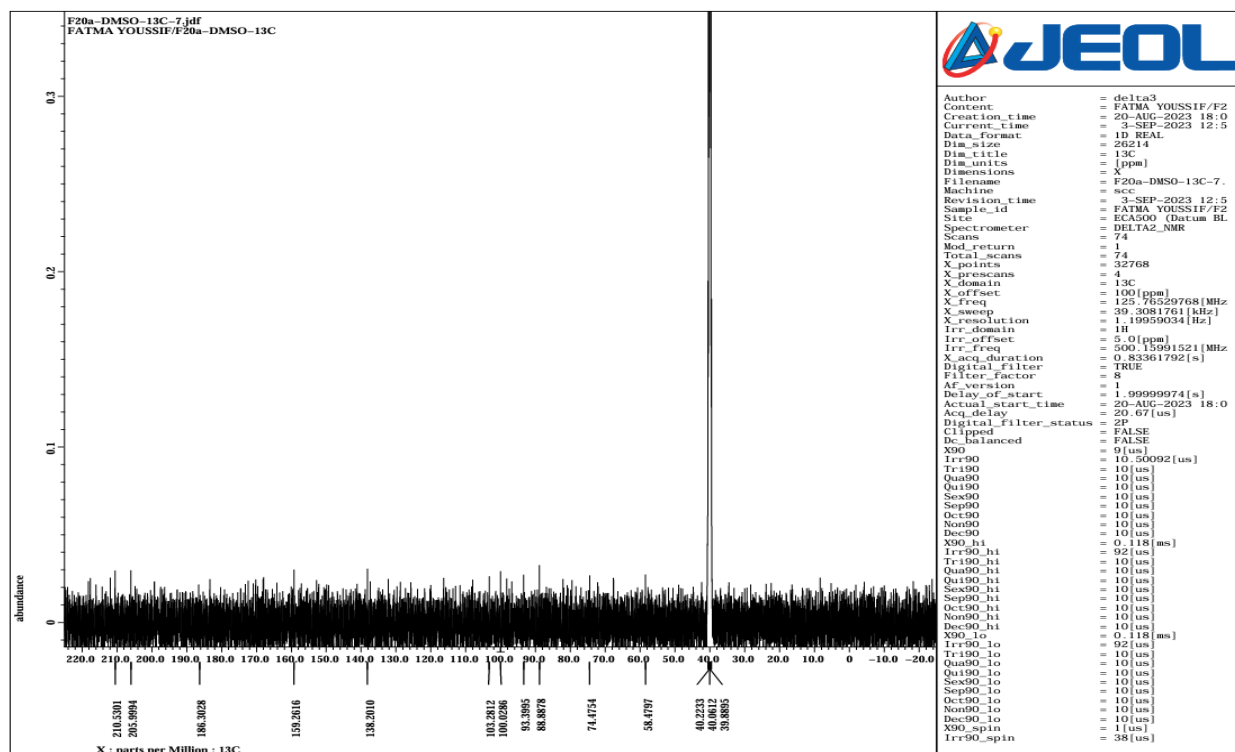


Chart 26. ^{13}C NMR of compound 4 (DMSO)

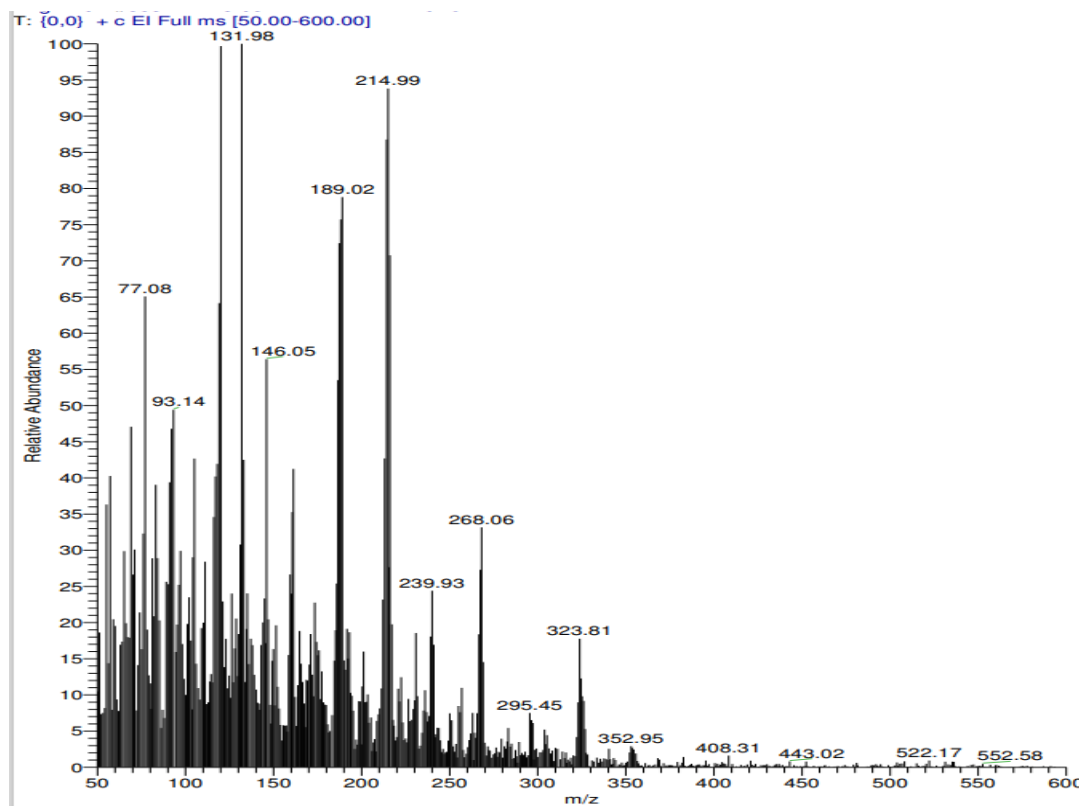


Chart 27. Mass of compound 4

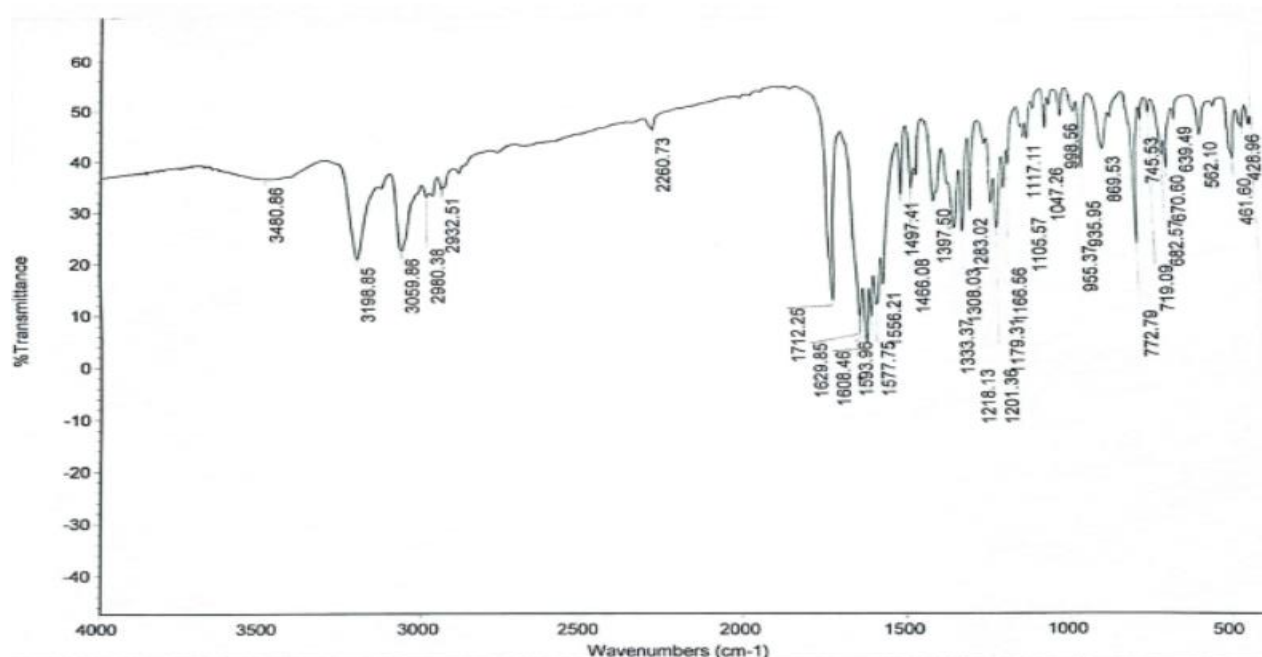


Chart 28. IR of compound 5a

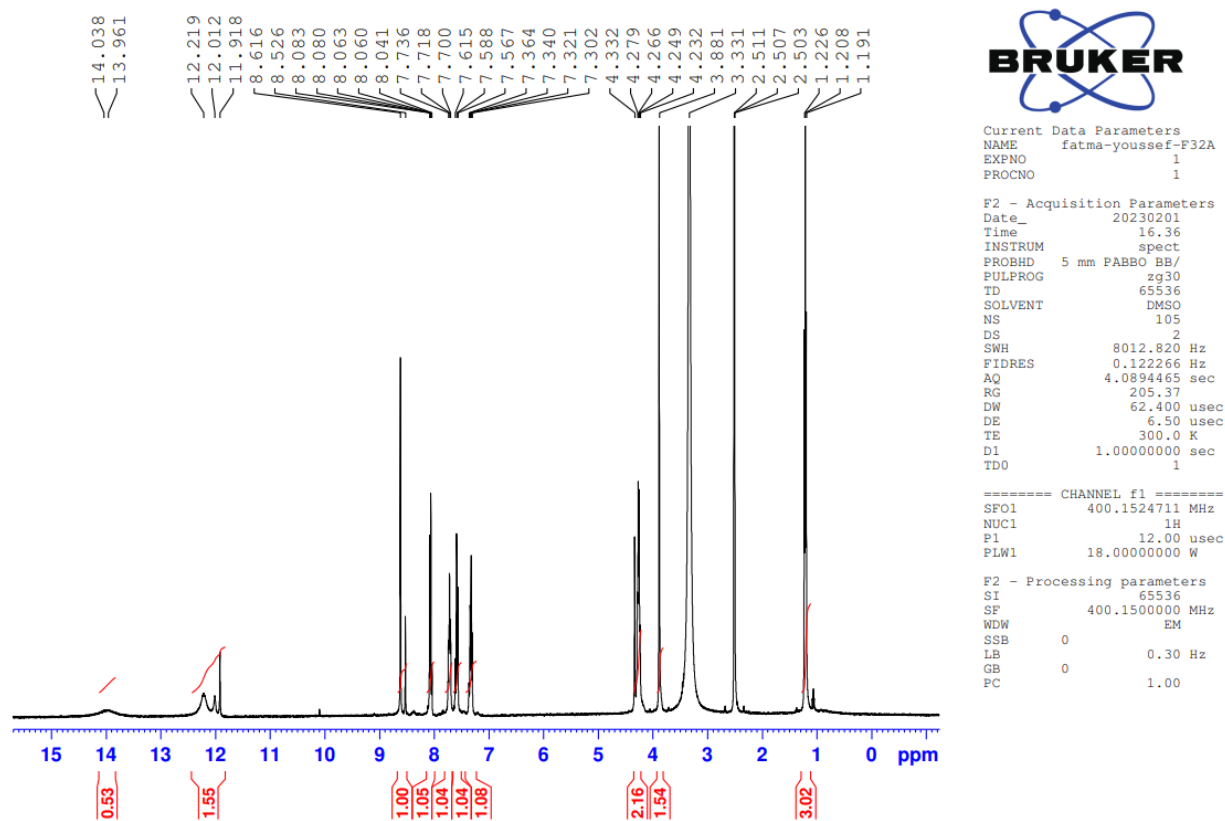


Chart 29. ¹H NMR of compound 5a (DMSO)

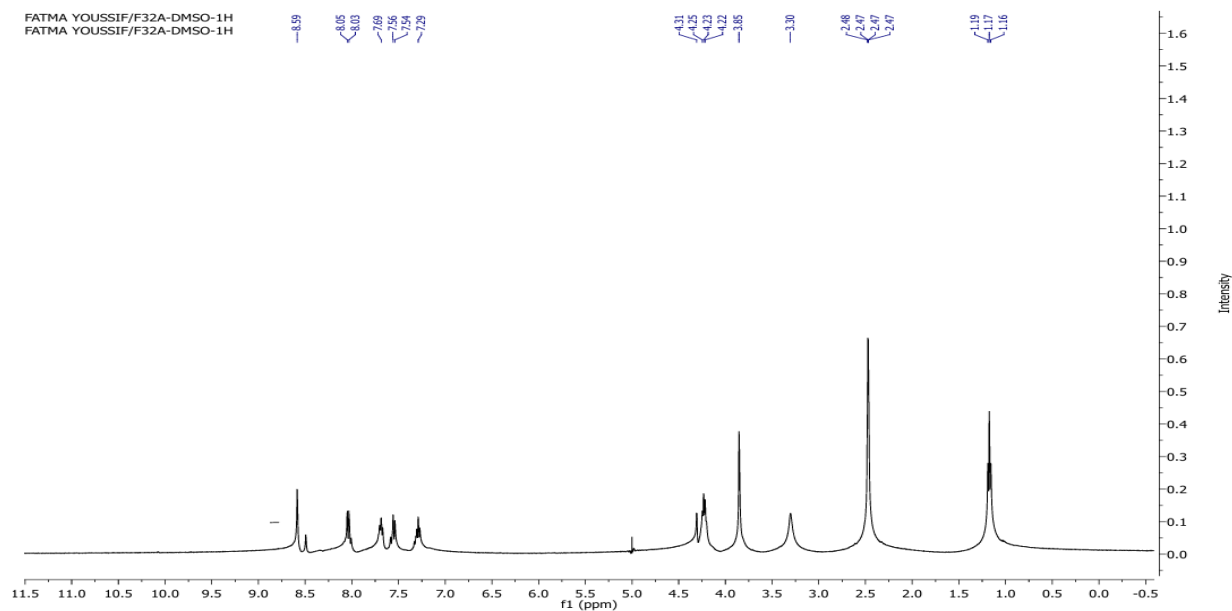


Chart 30. ^1H NMR of compound 5a (DMSO\(<>\text{D}_2\text{O})

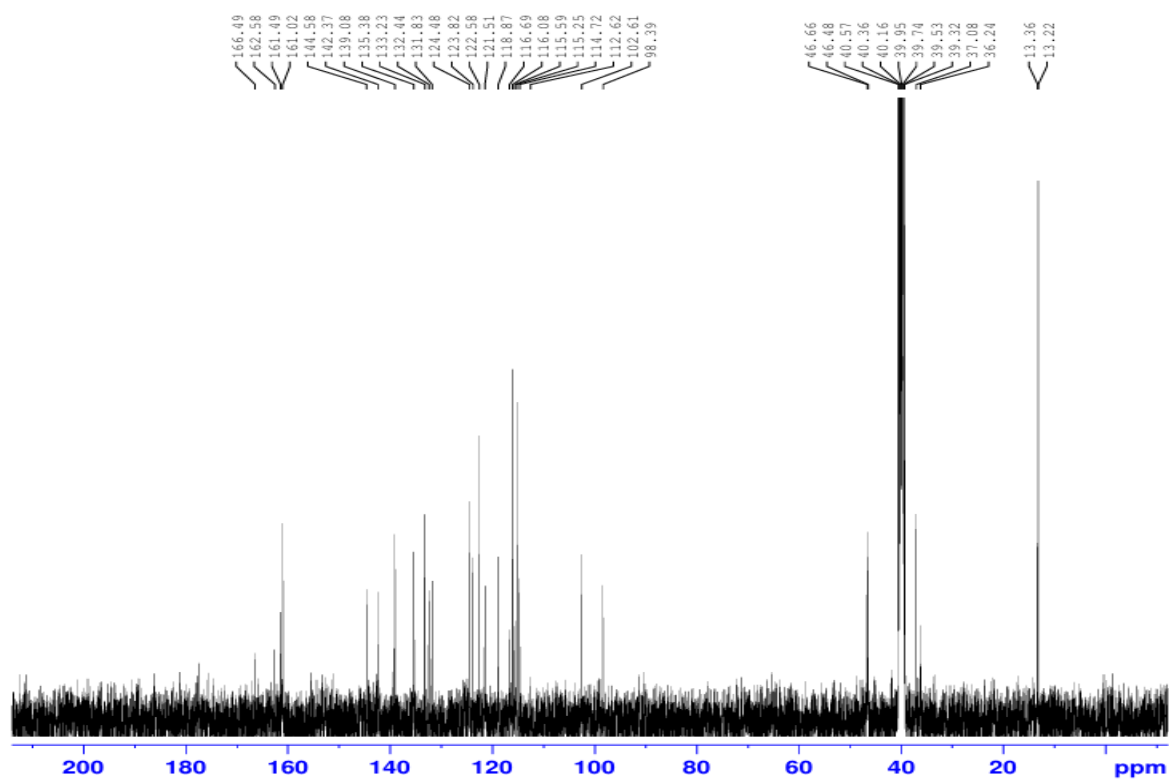


Chart 31. ^{13}C NMR of compound 5a (DMSO)

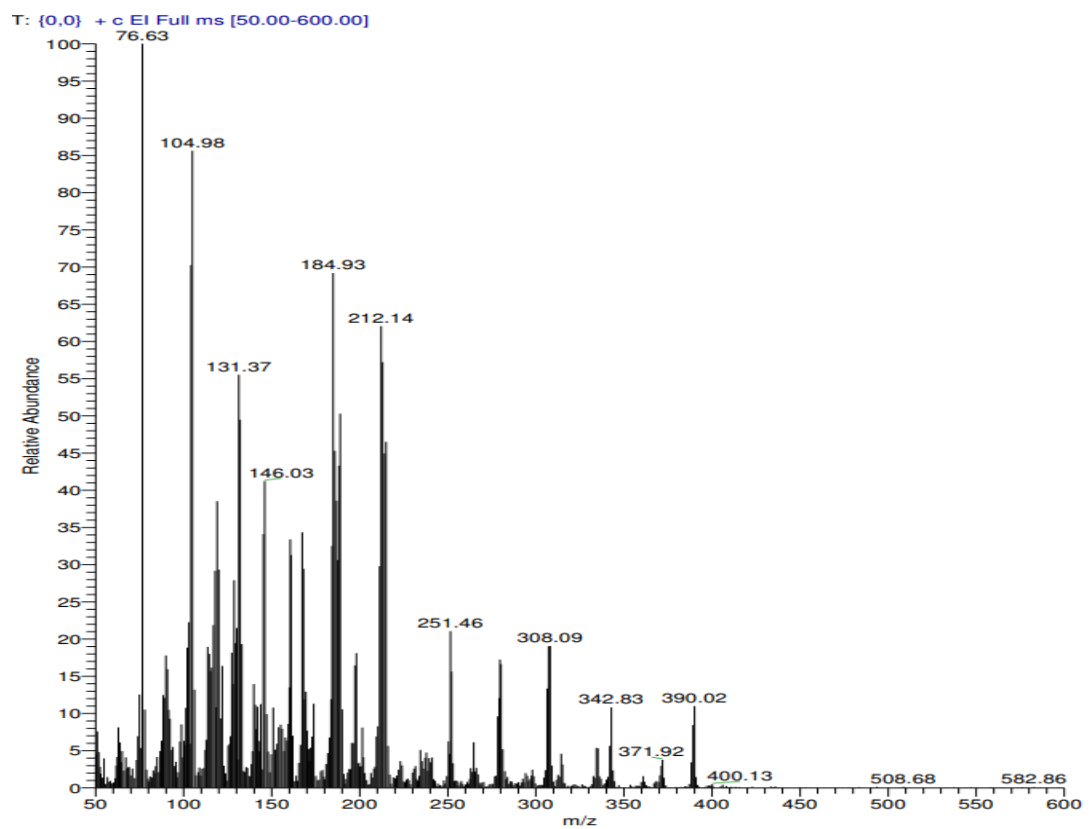


Chart 32. Mass of compound 5a

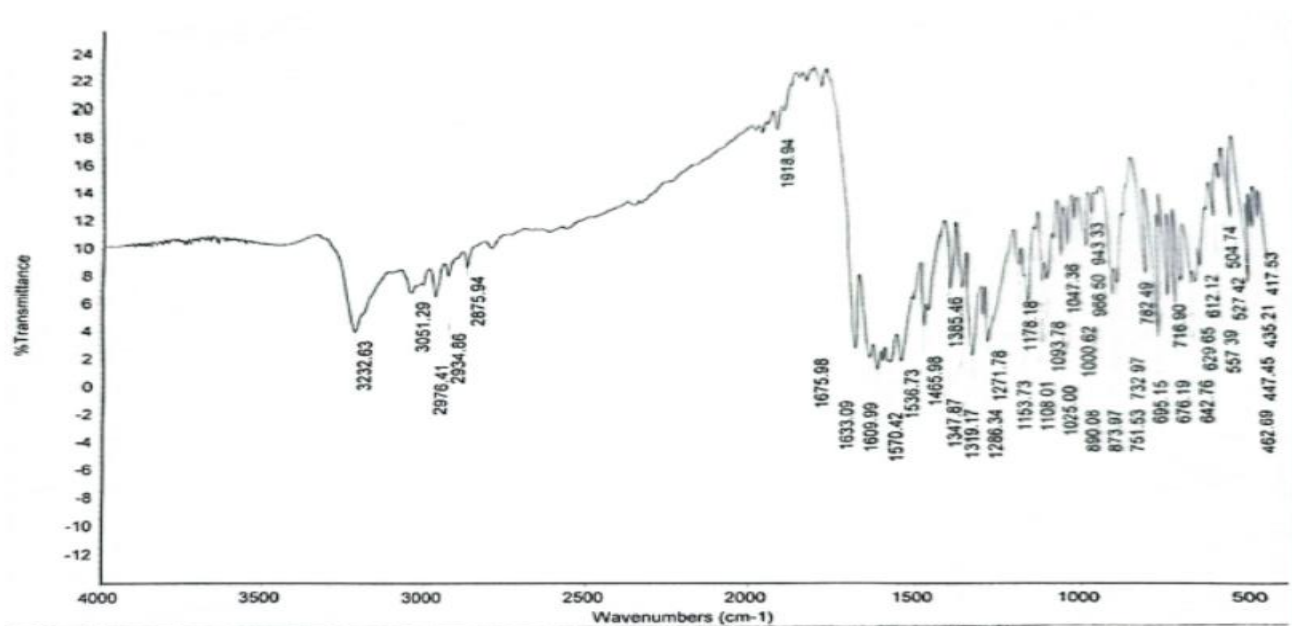


Chart 33. IR of compound 5b

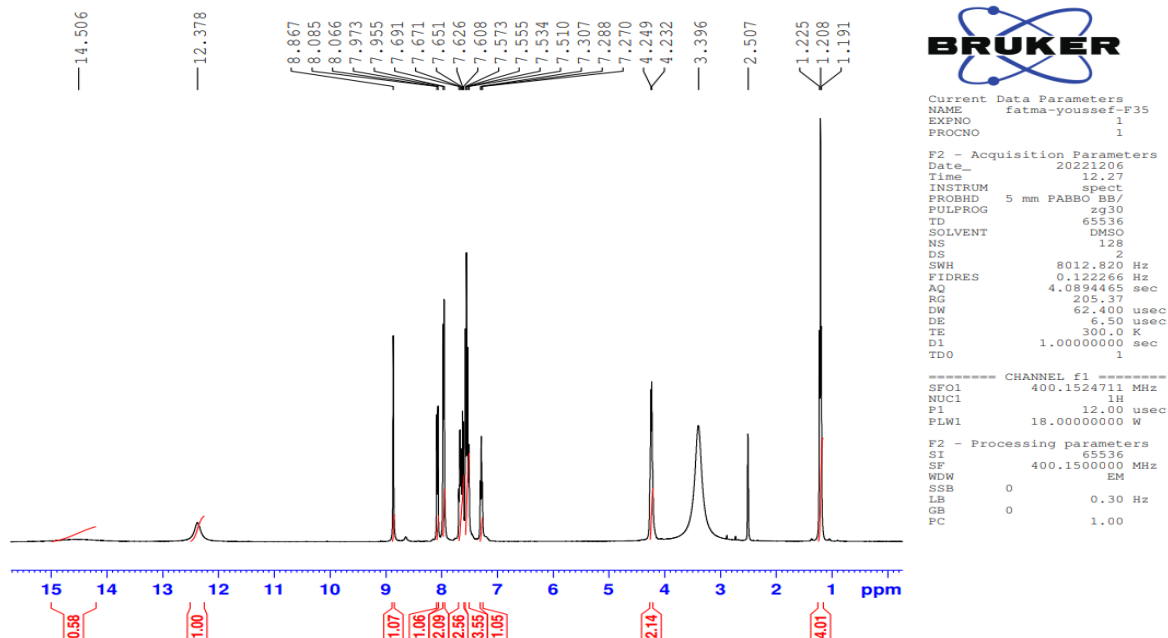


Chart 34. ^1H NMR of compound 5b (DMSO)

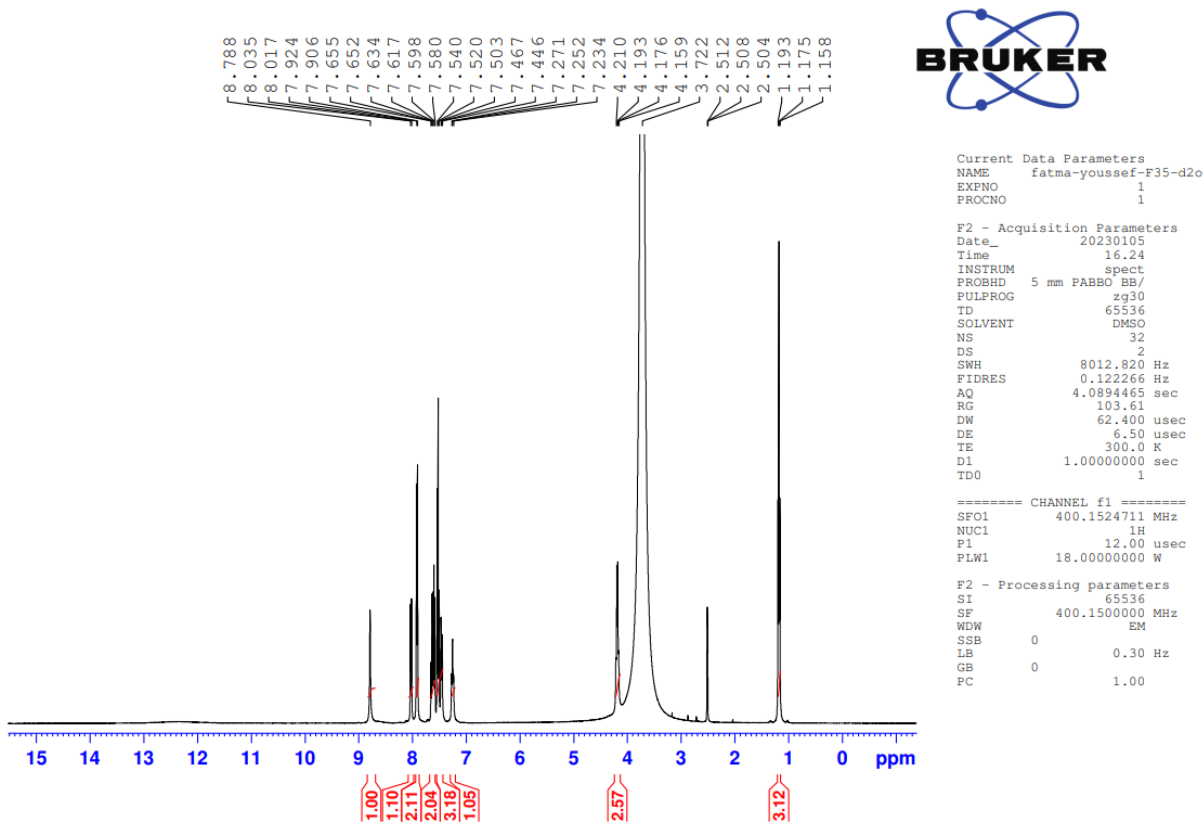


Chart 35. ^1H NMR of compound 5b (DMSO\(<\text{D}_2\text{O})

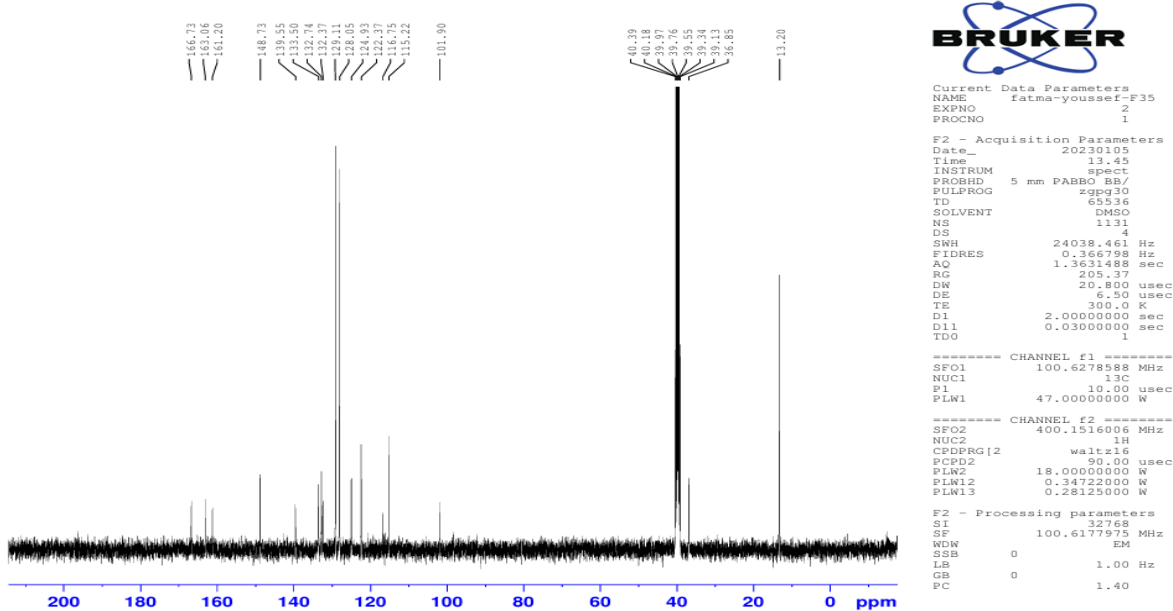


Chart 36. ^{13}C NMR of compound 5b (DMSO)

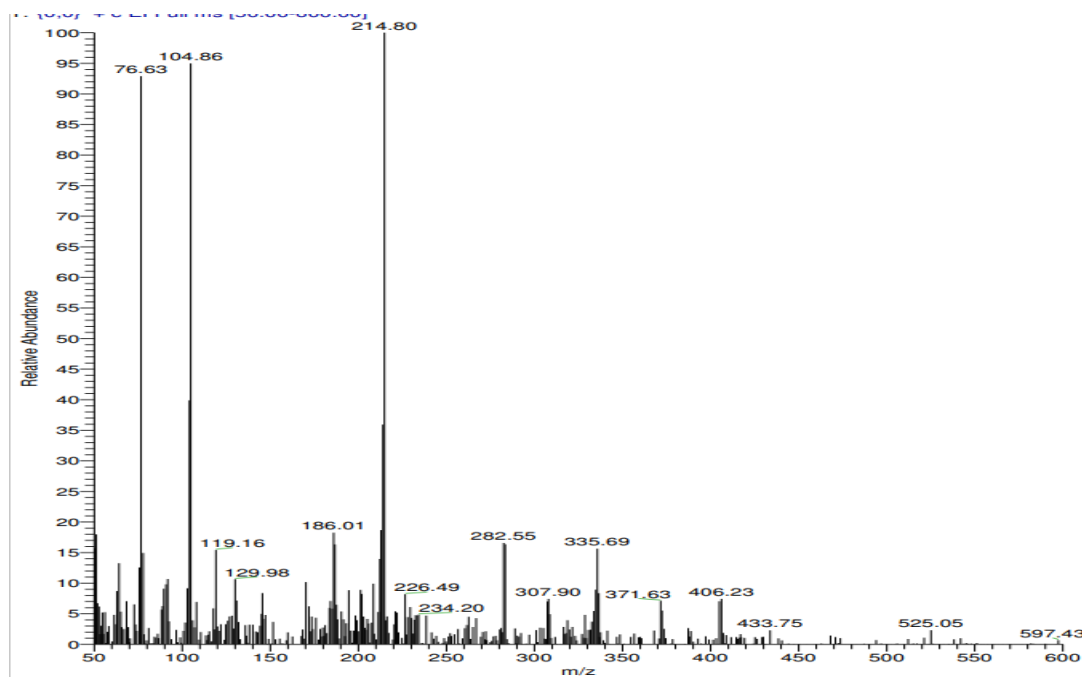


Chart 37. Mass of compound 5b

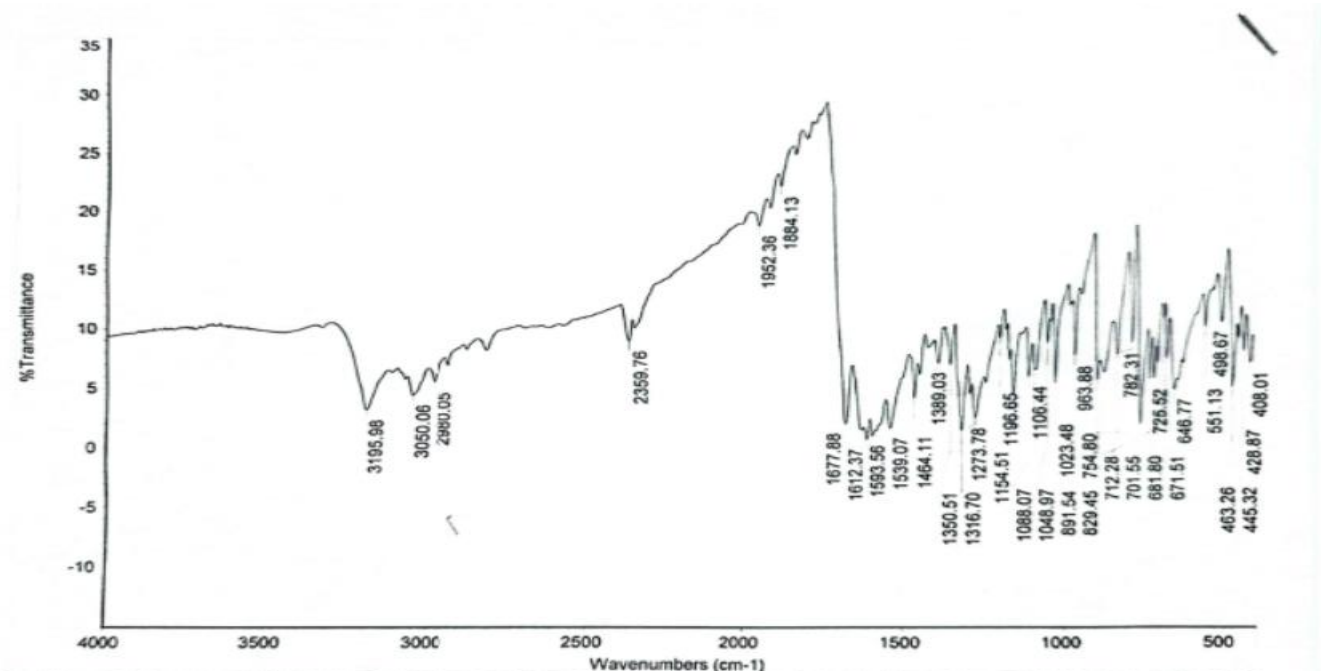


Chart 38. IR of compound 5c

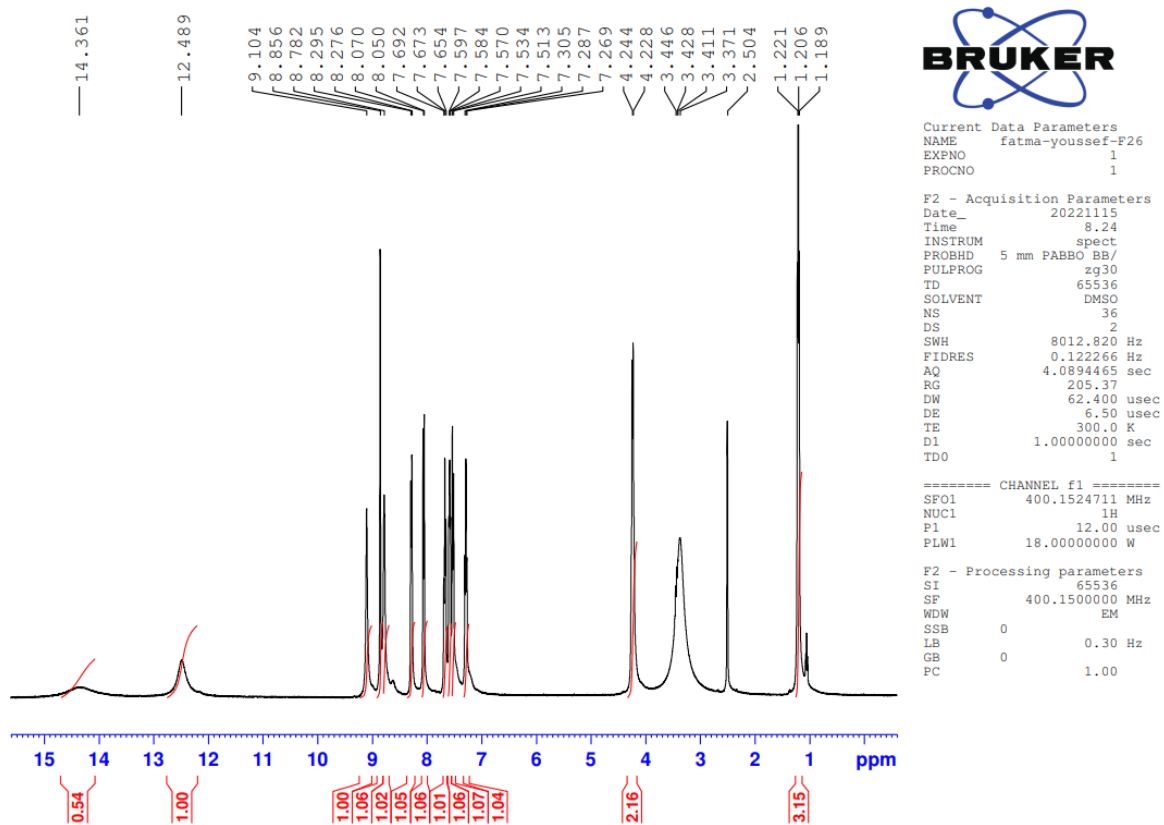


Chart 39. ¹H NMR of compound 5c (DMSO)

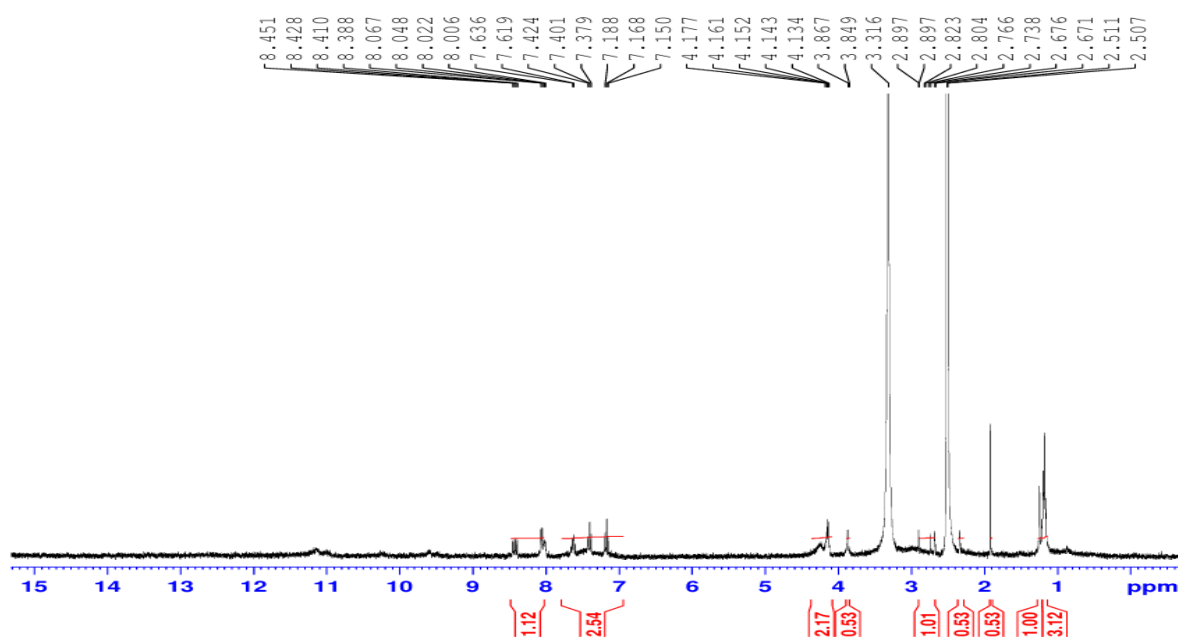


Chart 40. ^1H NMR of compound 5c (DMSO\(<>\text{D}_2\text{O}\))

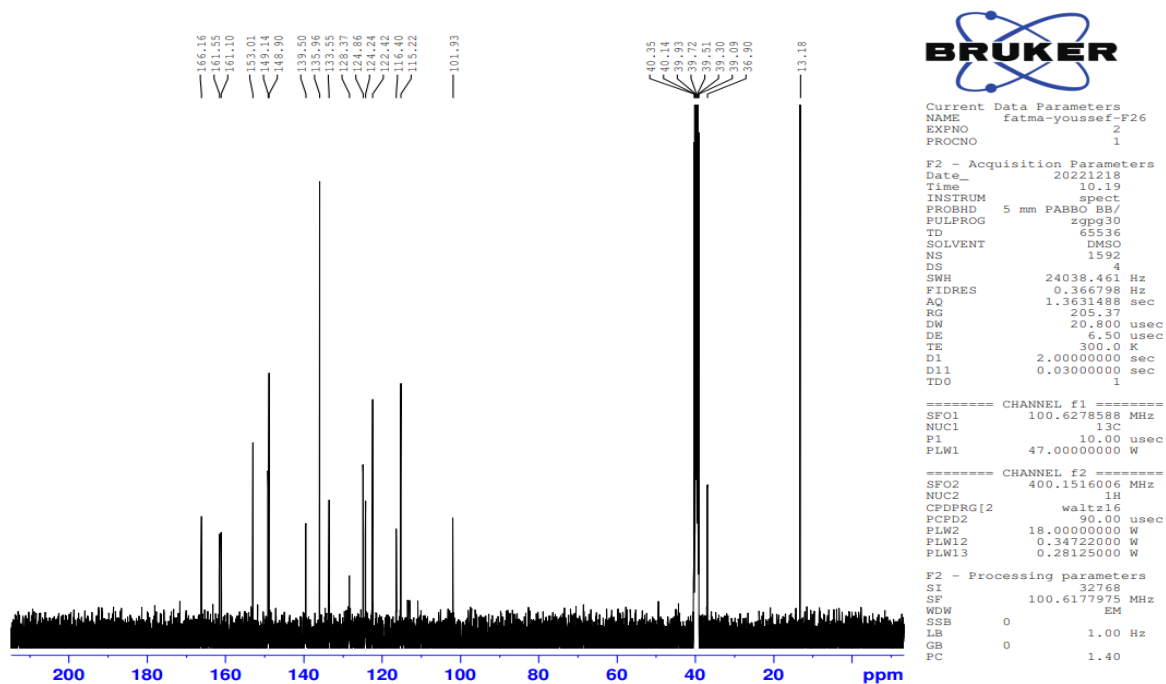


Chart 41. ^{13}C NMR of compound 5c (DMSO)

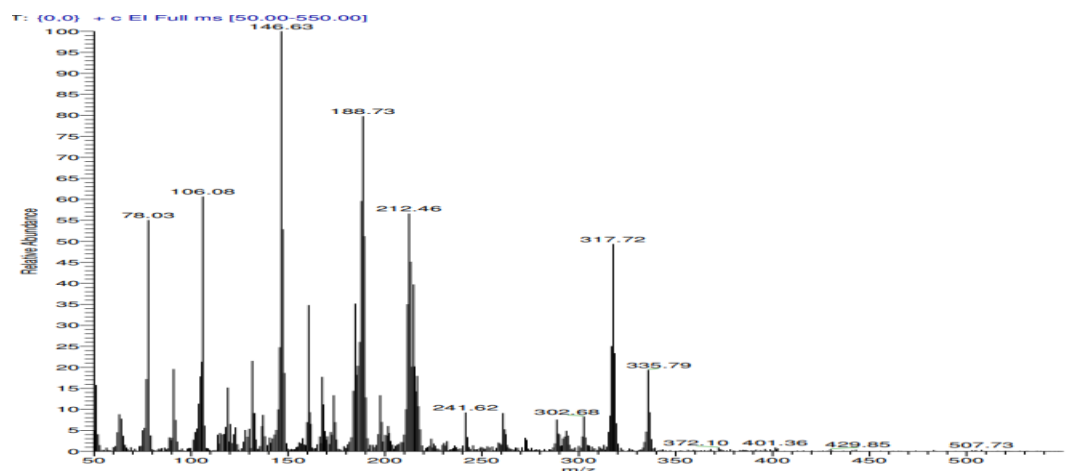


Chart 42. Mass of compound 5c

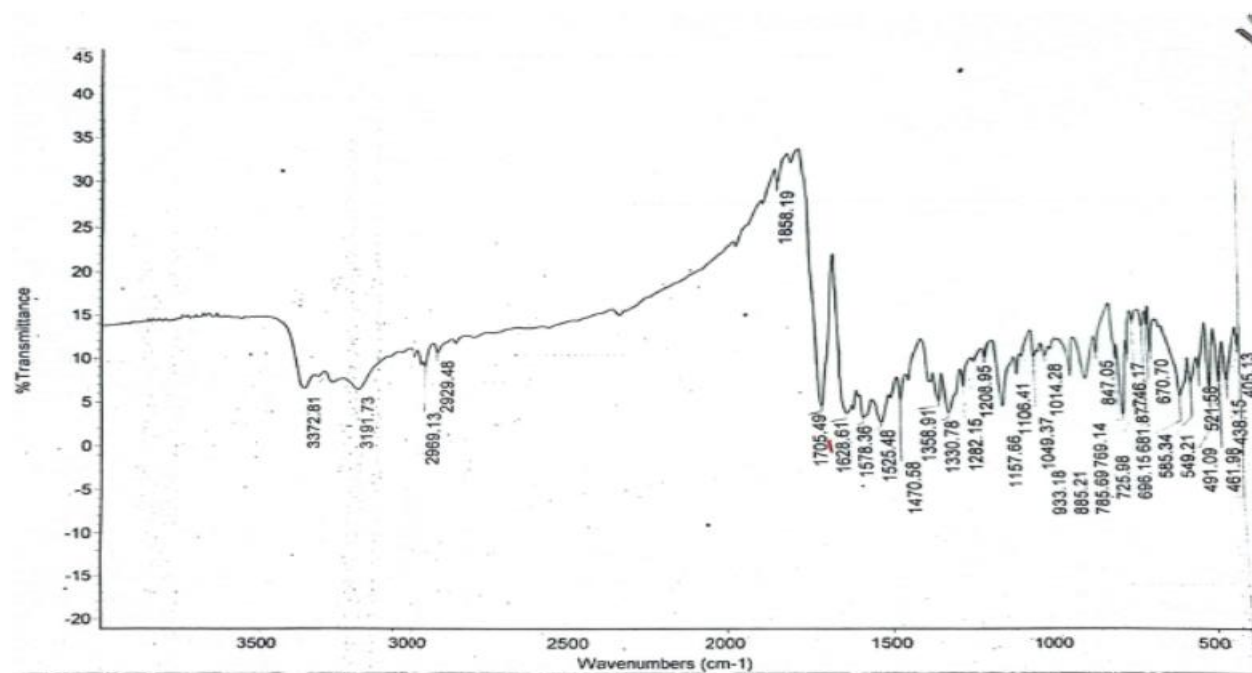


Chart 43. IR of compound 6a semi

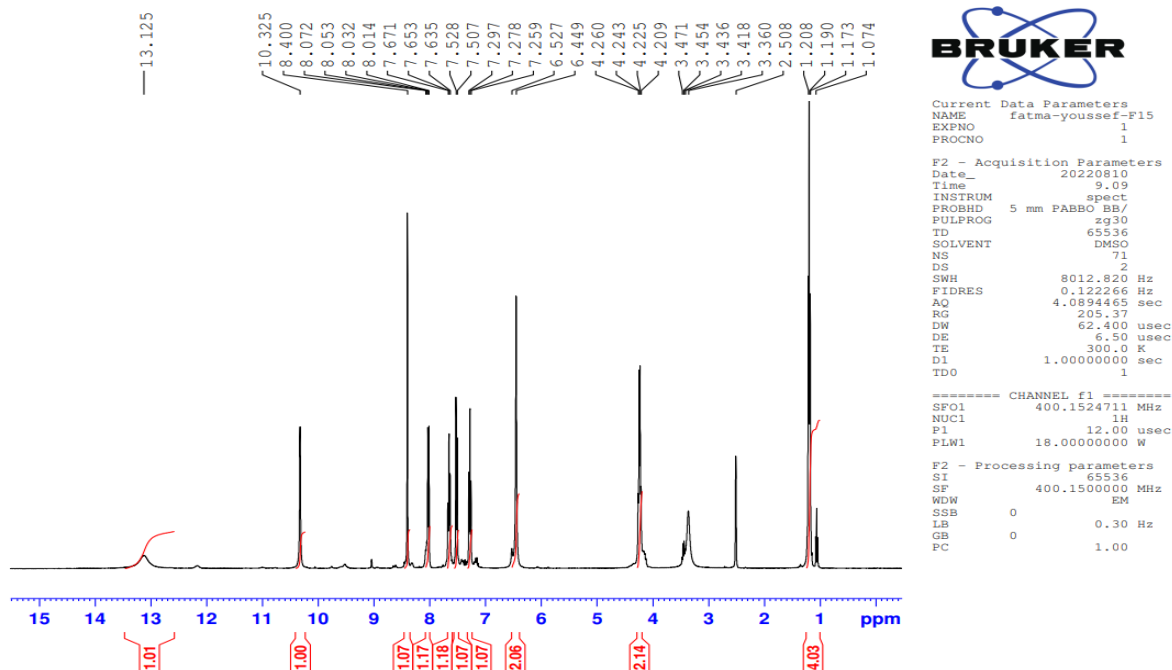


Chart 44. ^1H NMR of compound 6a(DMSO)

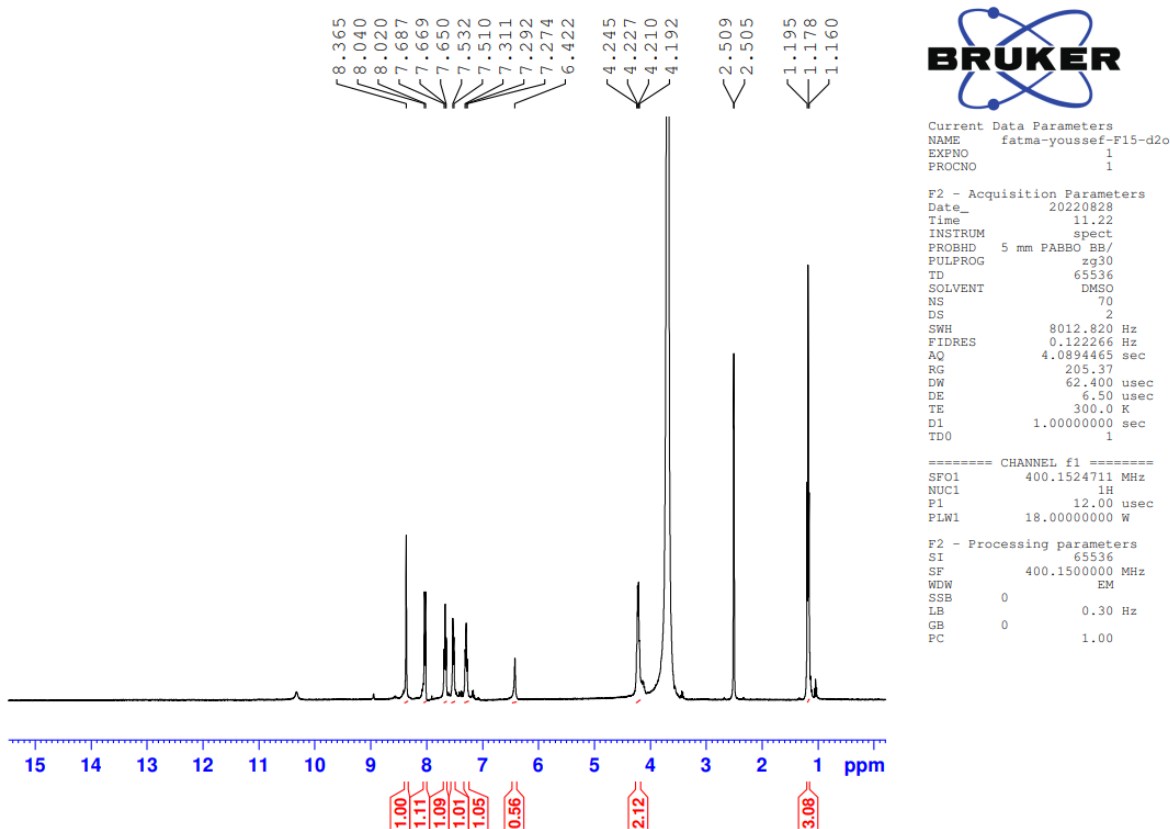


Chart 45. ^1H NMR of compound 6a (DMSO\(<\text{D}_2\text{O}\text{))

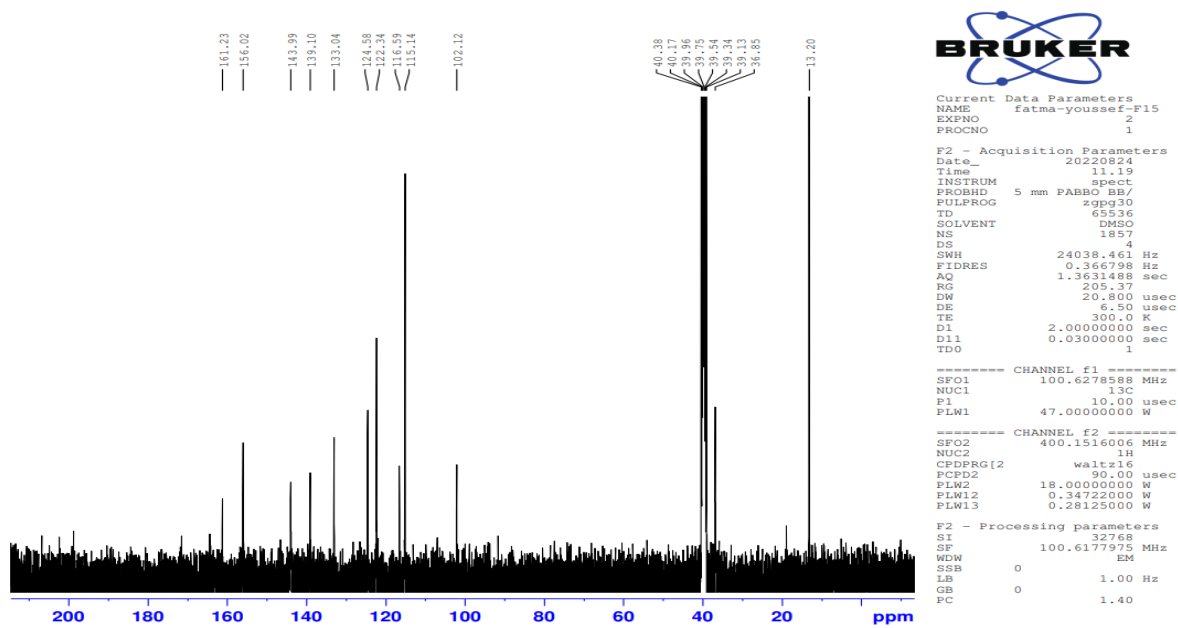


Chart 46. ^{13}C NMR of compound 6a (DMSO)

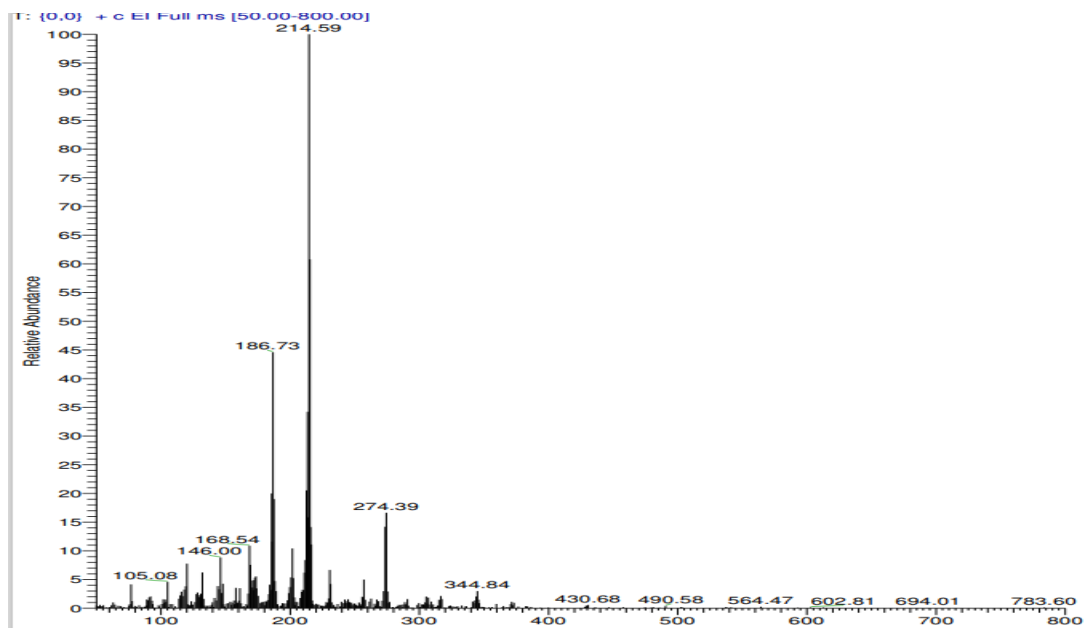


Chart 47. Mass of compound 6a

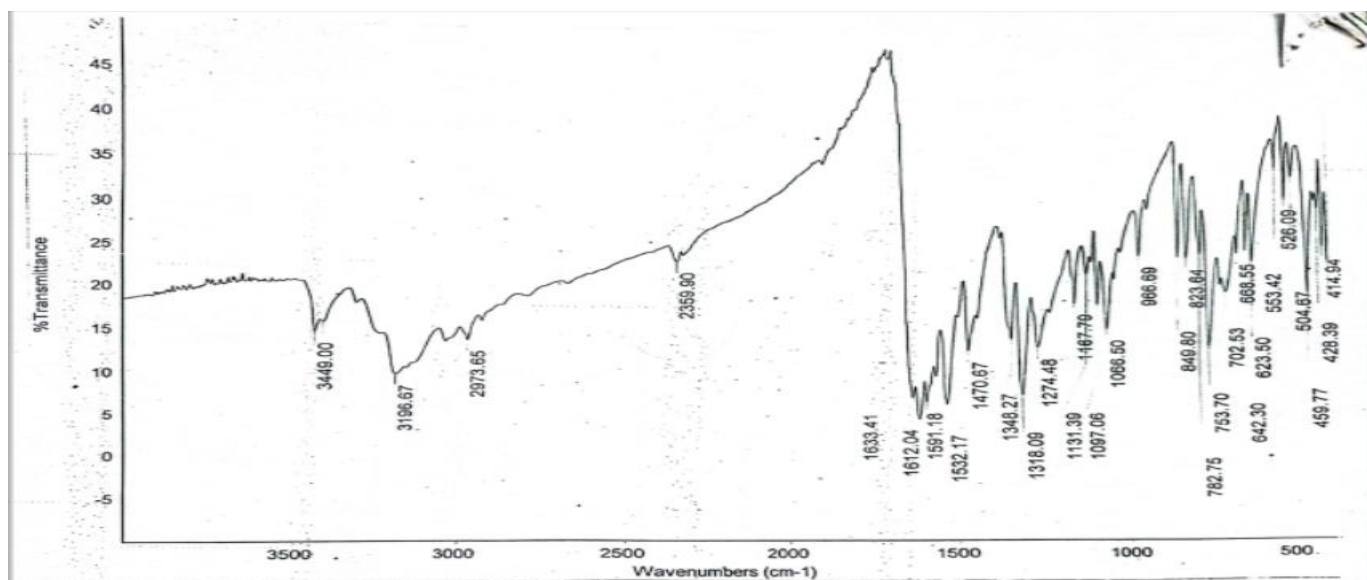


Chart 48. IR of compound 6b thio semi

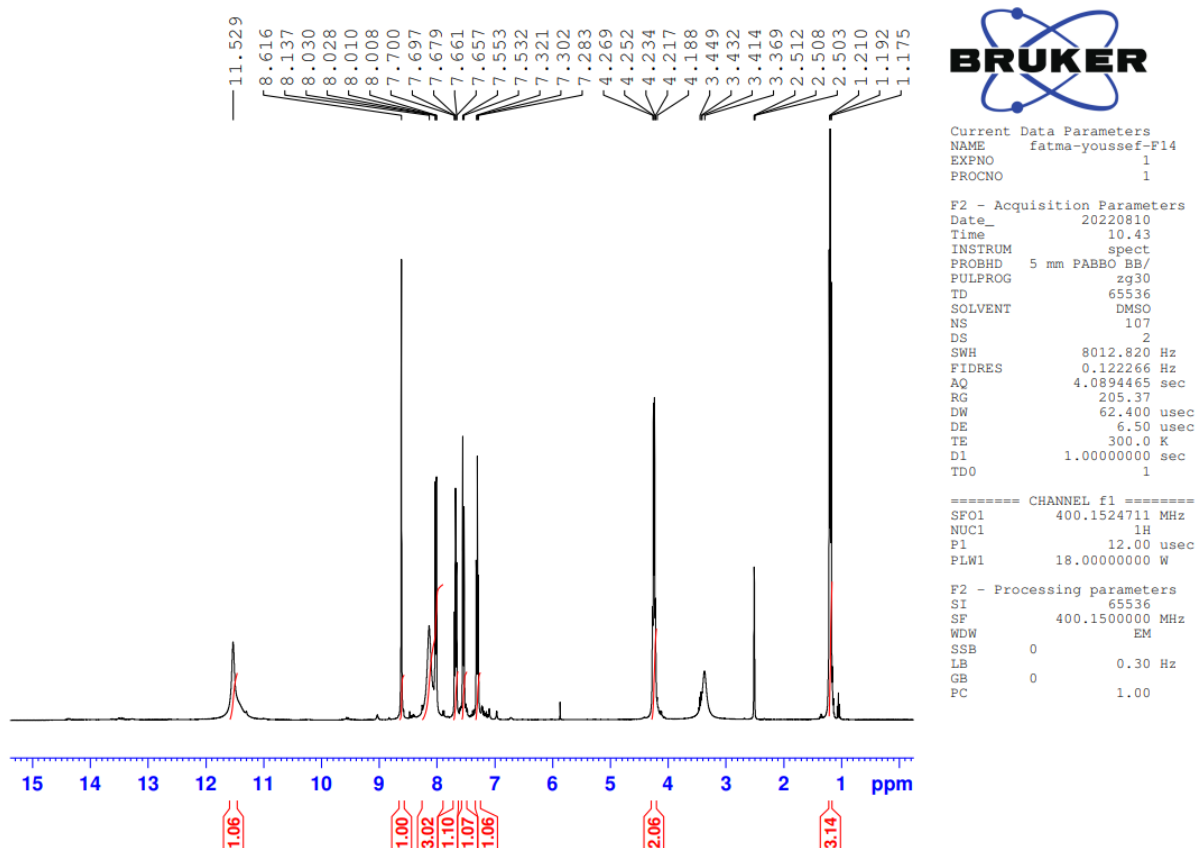


Chart 49. ¹H NMR of compound 6b(DMSO)

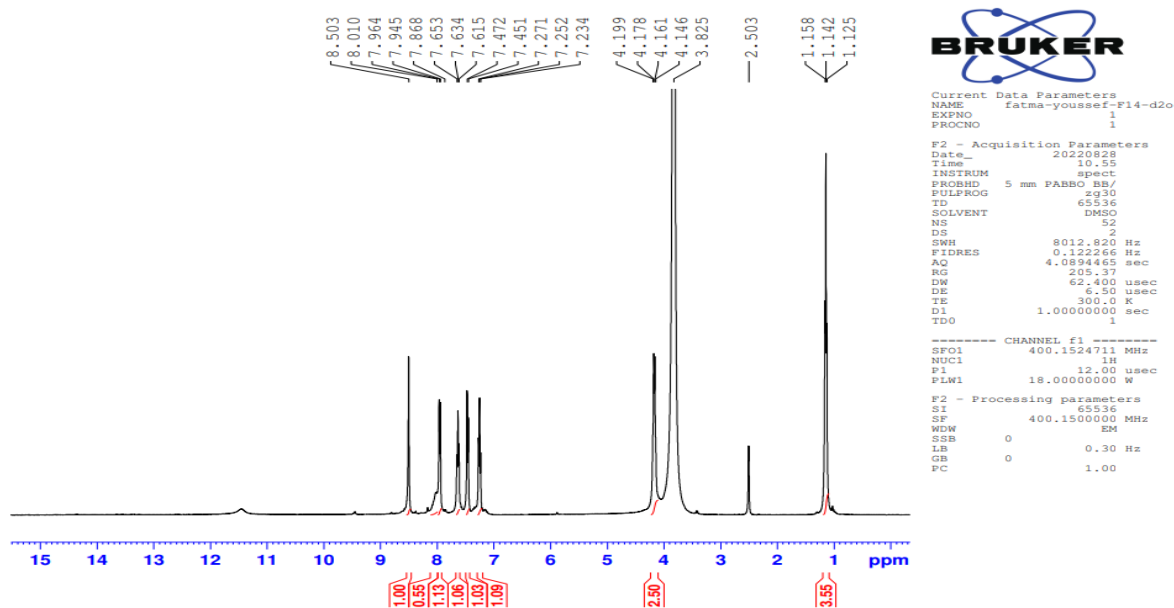


Chart 50. ^1H NMR of compound 6b (DMSO\(<>\text{D}_2\text{O})

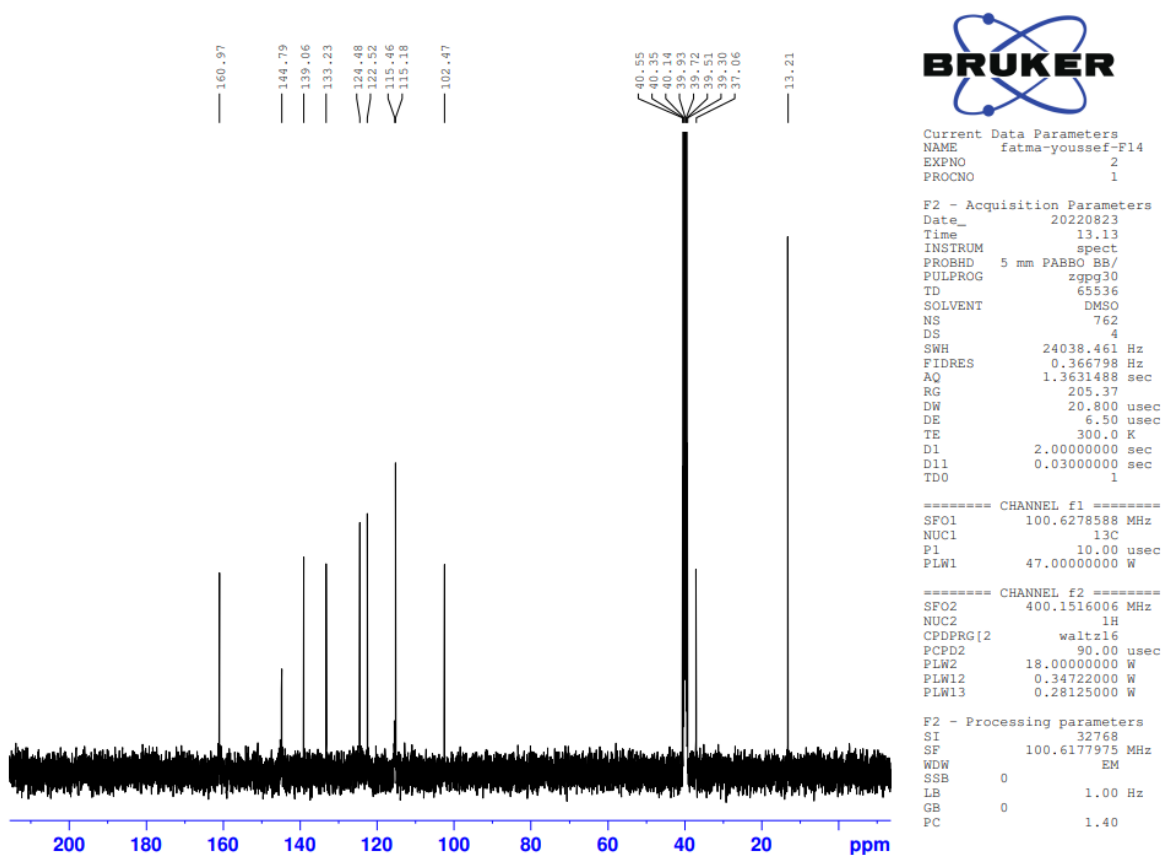


Chart 51. ^{13}C NMR of compound 6b (DMSO)

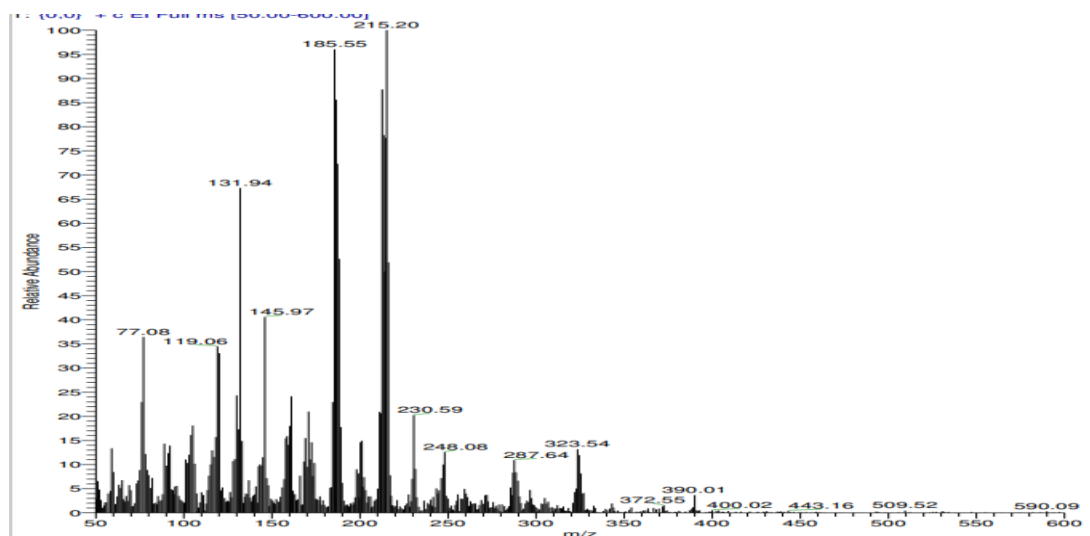


Chart 52. Mass of compound 6b

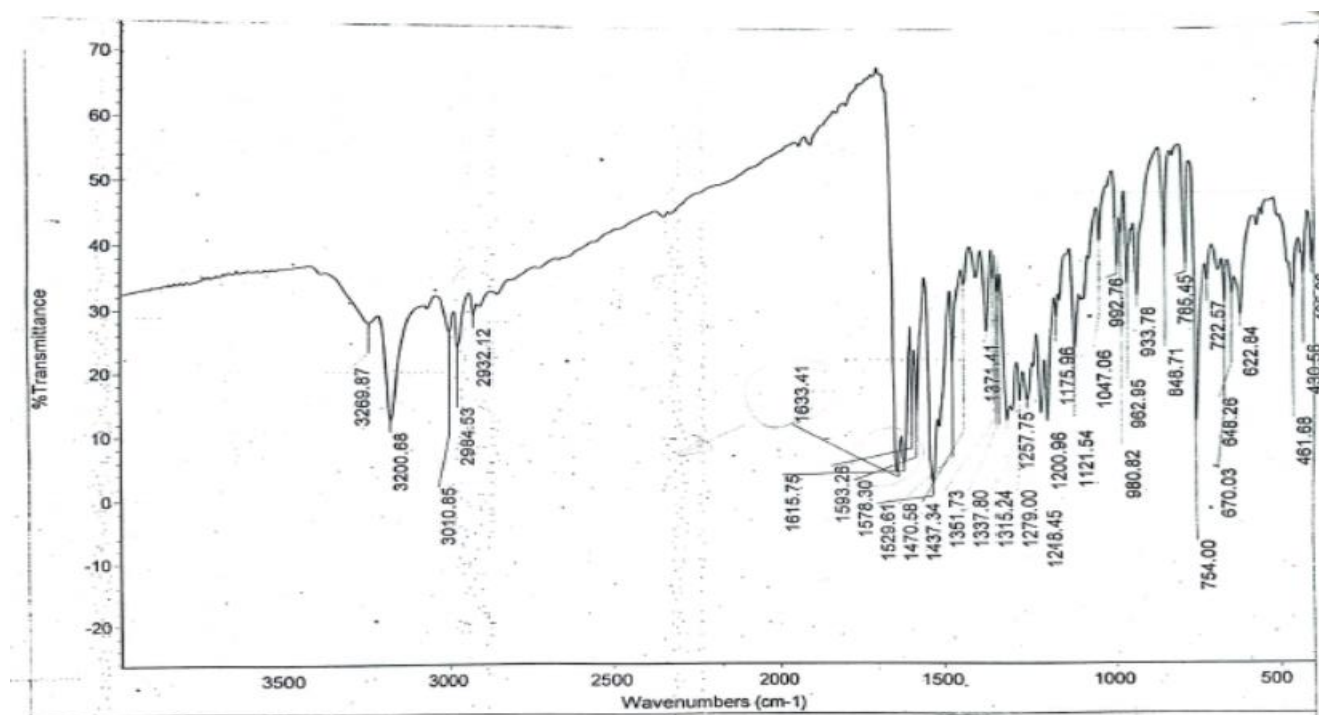


Chart 53. IR of compound 6c

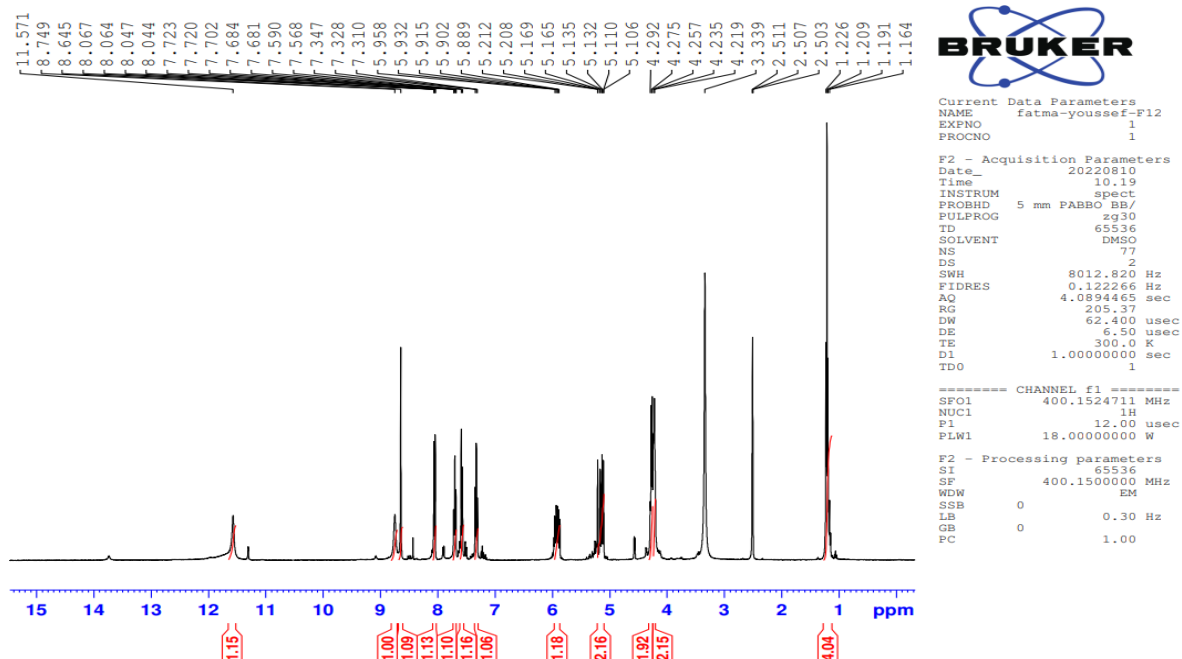


Chart 54. ^1H NMR of compound 6c(DMSO)

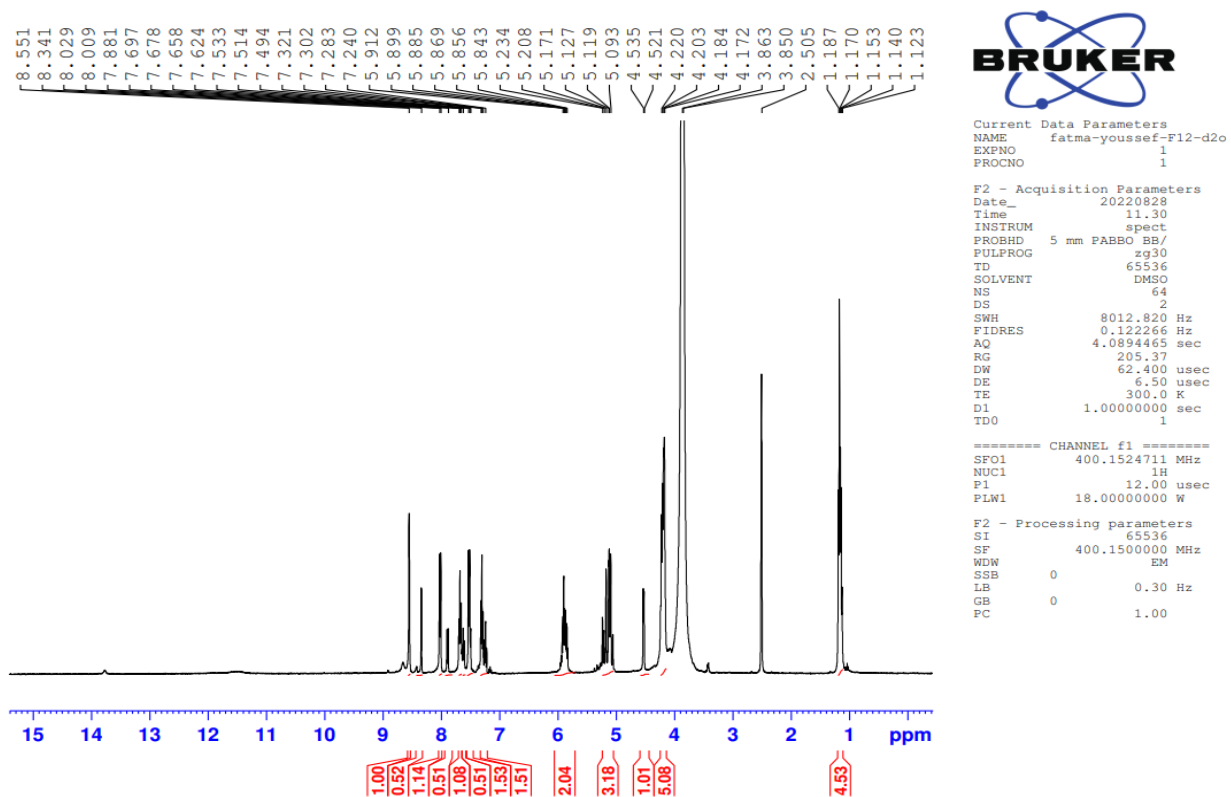


Chart 55. ^1H NMR of compound 6c (DMSO- D_2O)

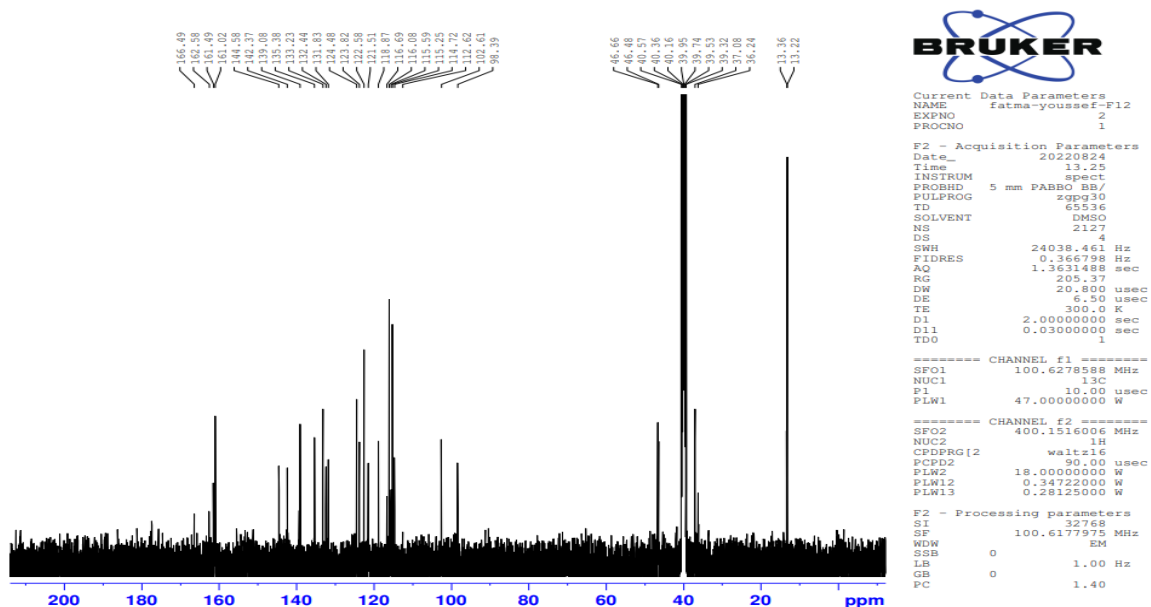


Chart 56. ^{13}C NMR of compound 6c(DMSO)

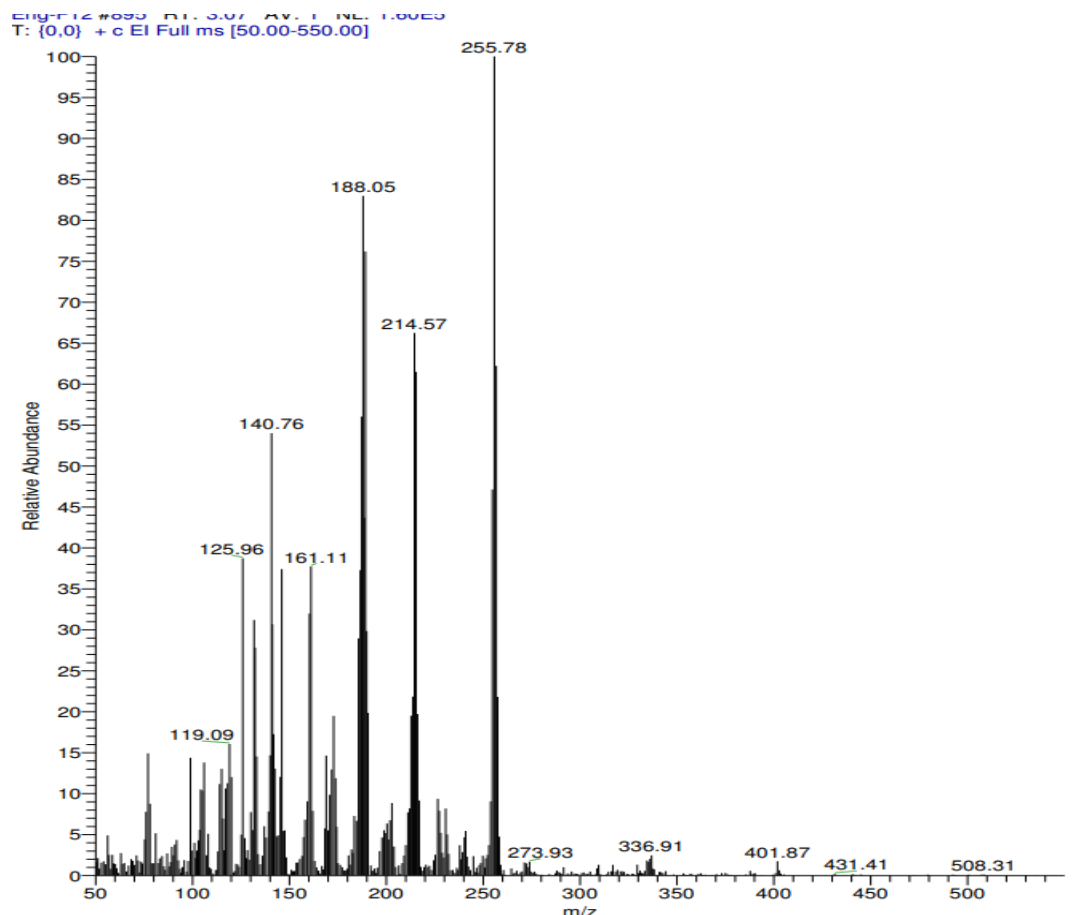


Chart 57. Mass of compound 6c

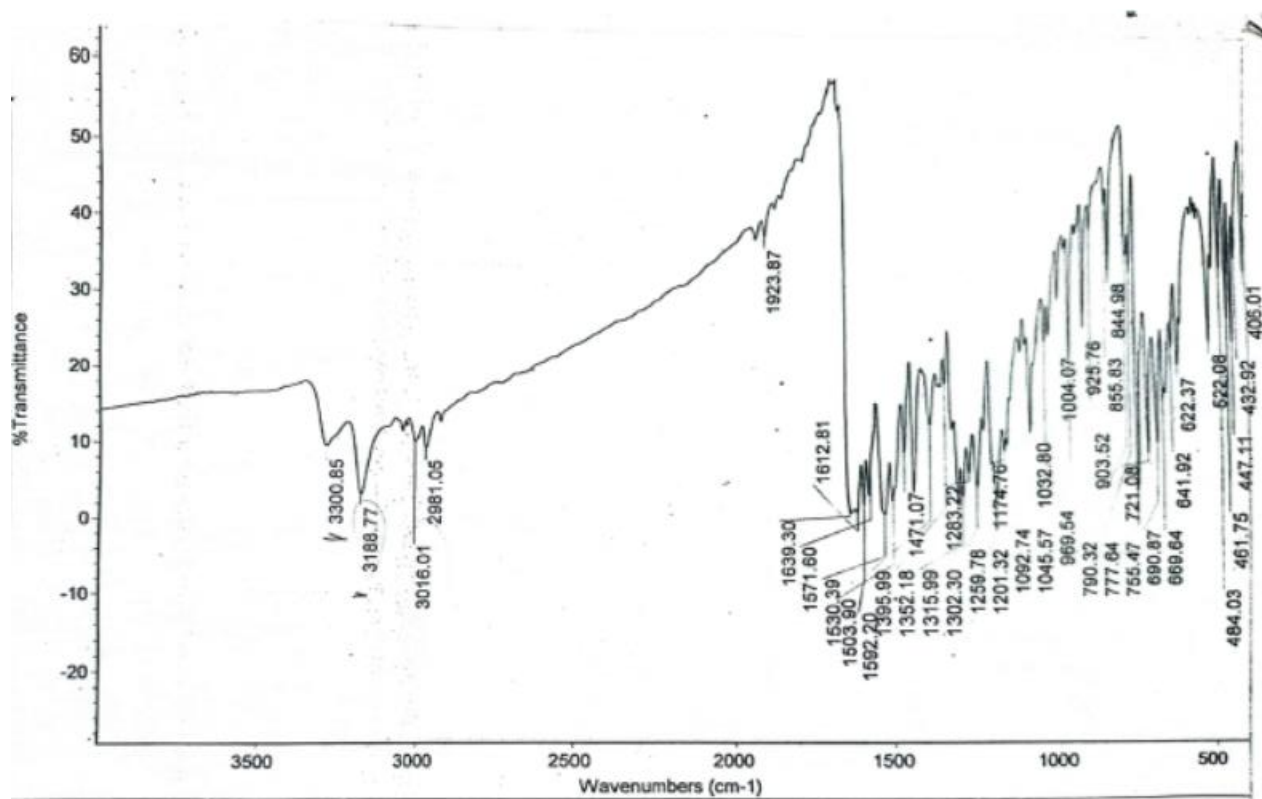


Chart 58. IR of compound 6D

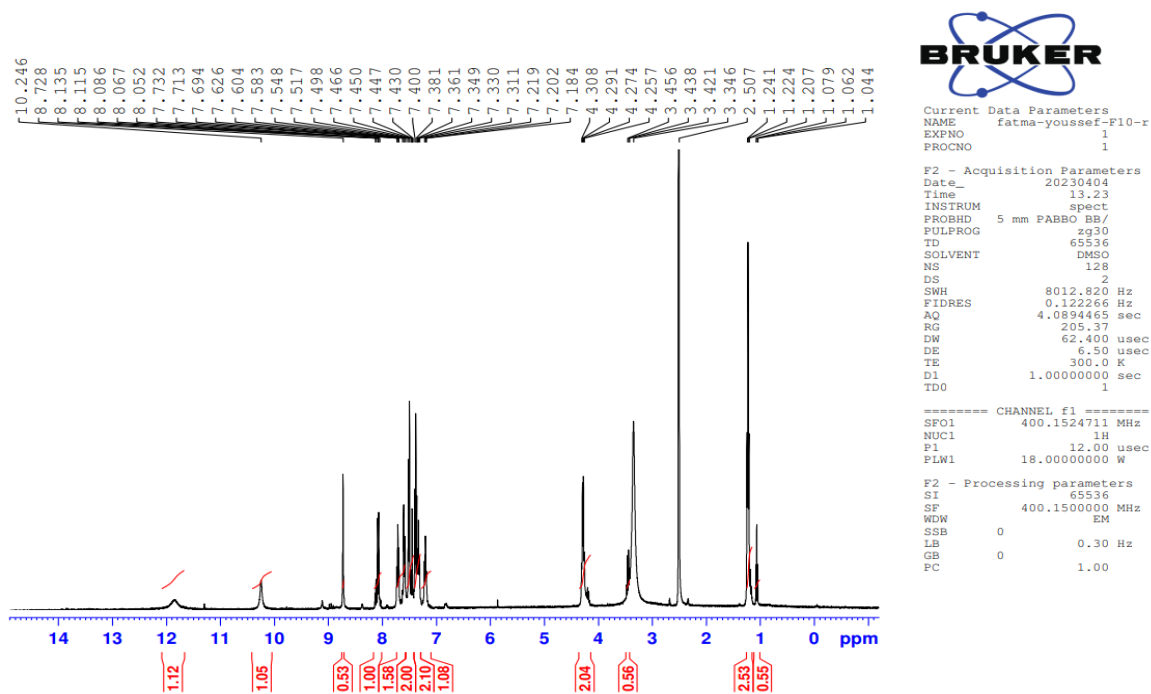


Chart 59. ¹H NMR of compound 6d(DMSO)

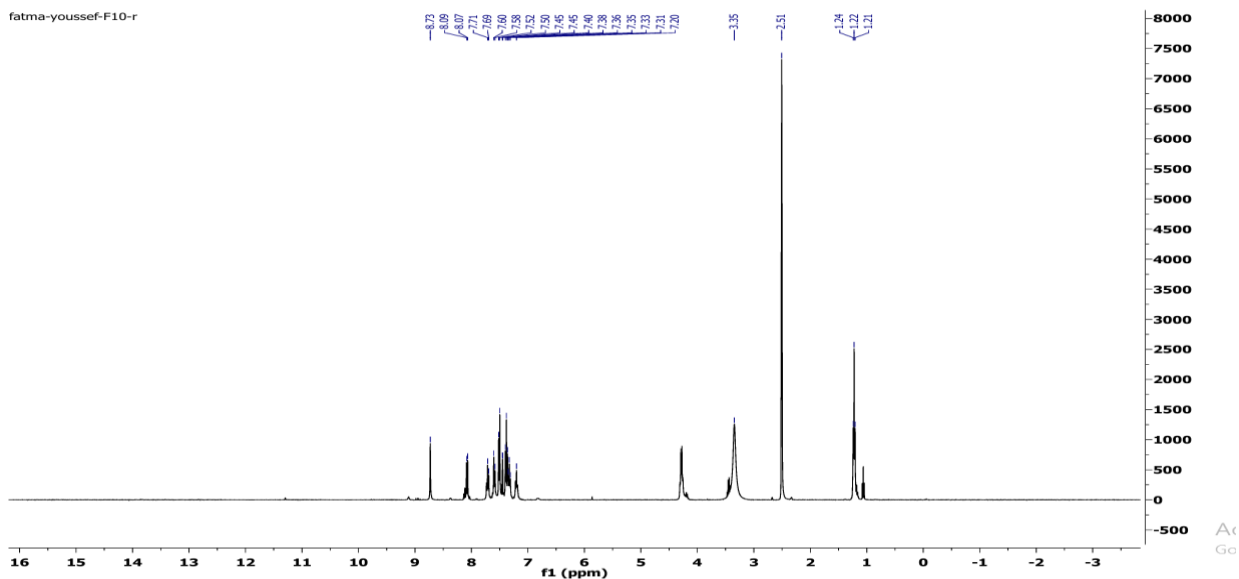


Chart 60. ^1H NMR of compound 6d ($\text{DMSO}\backslash\text{D}_2\text{O}$)

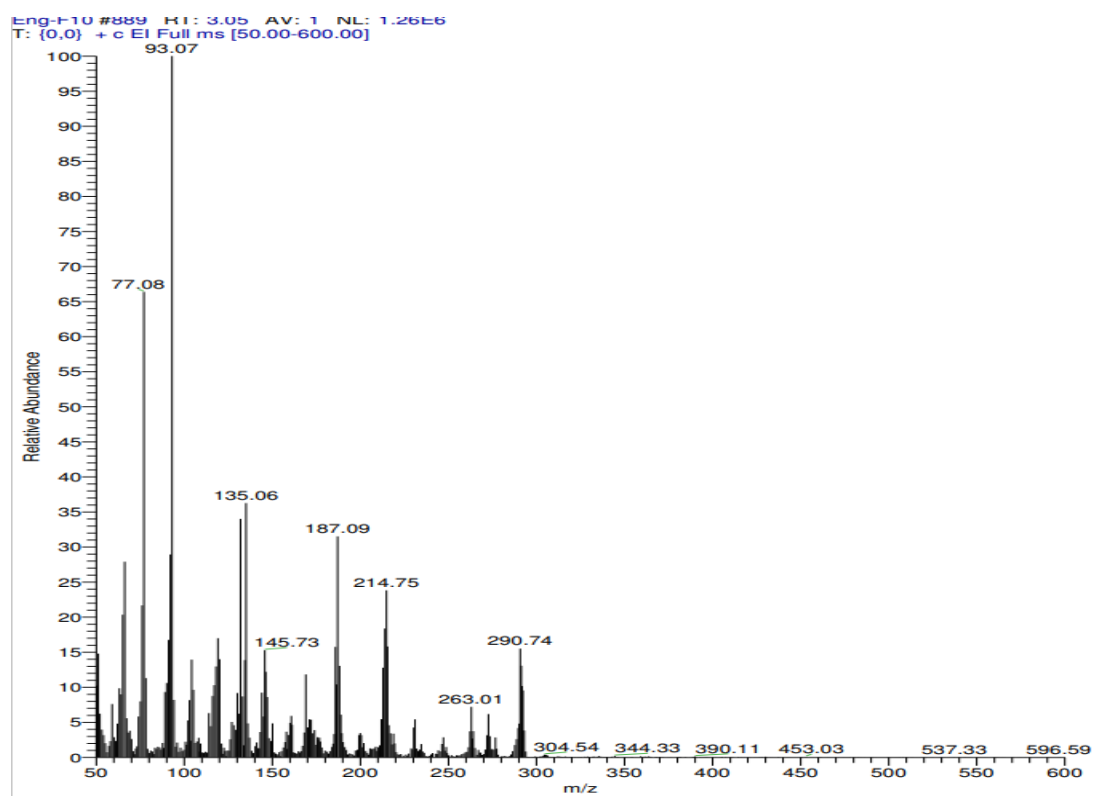


Chart 61. Mass of compound 6d

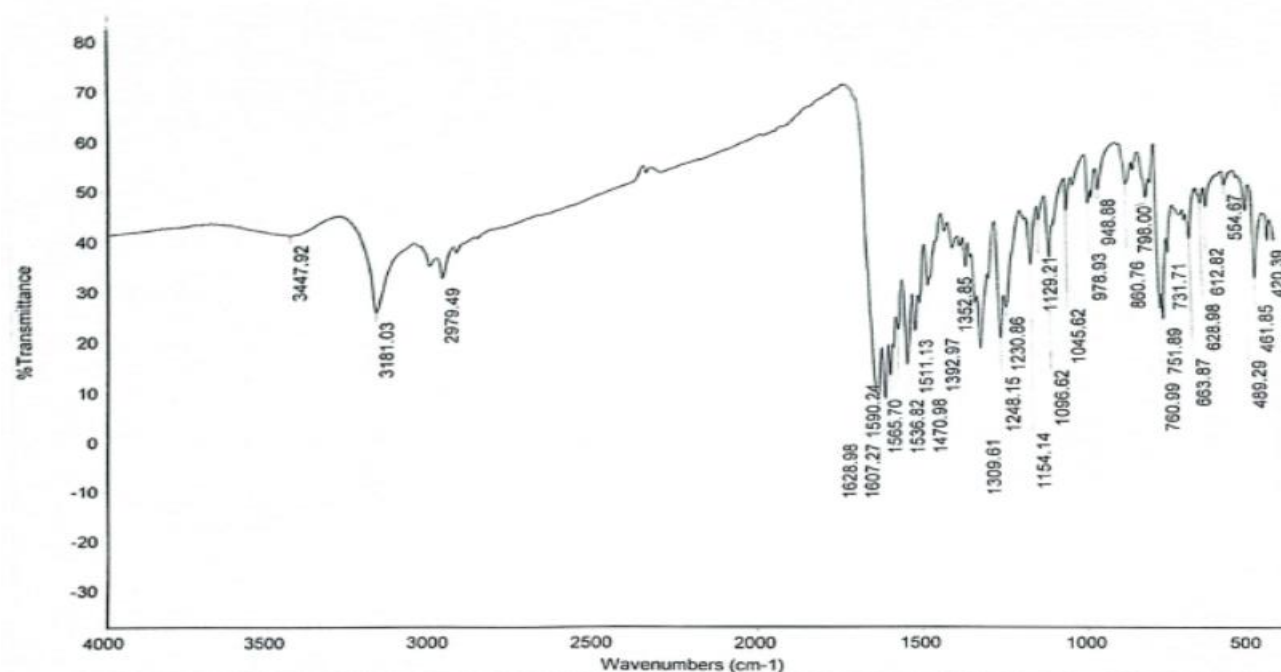


Chart 62. IR of compound 7

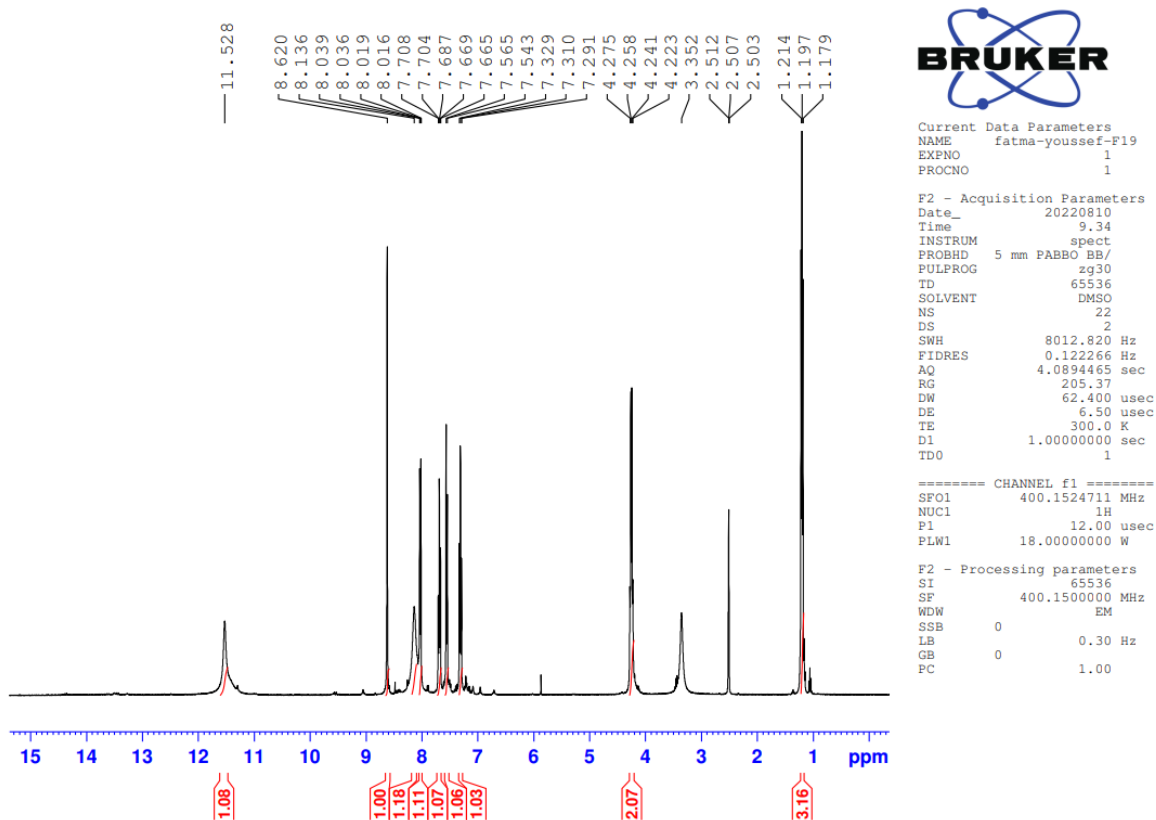


Chart 63. ¹H NMR of compound 7 (DMSO)

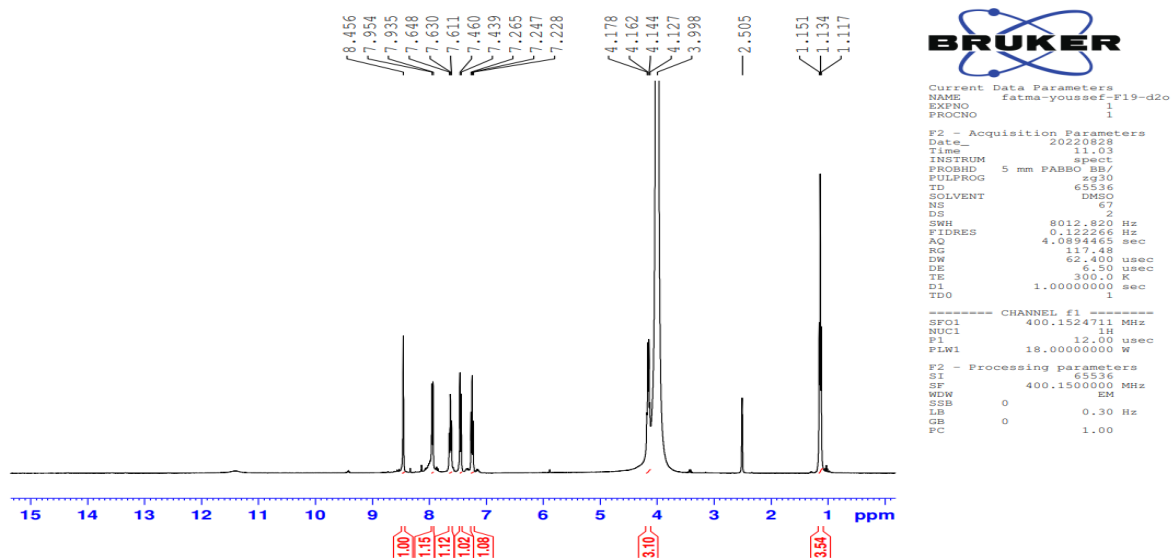


Chart 64. ^1H NMR of compound 7 (DMSO\(\text{D}_2\text{O}\))

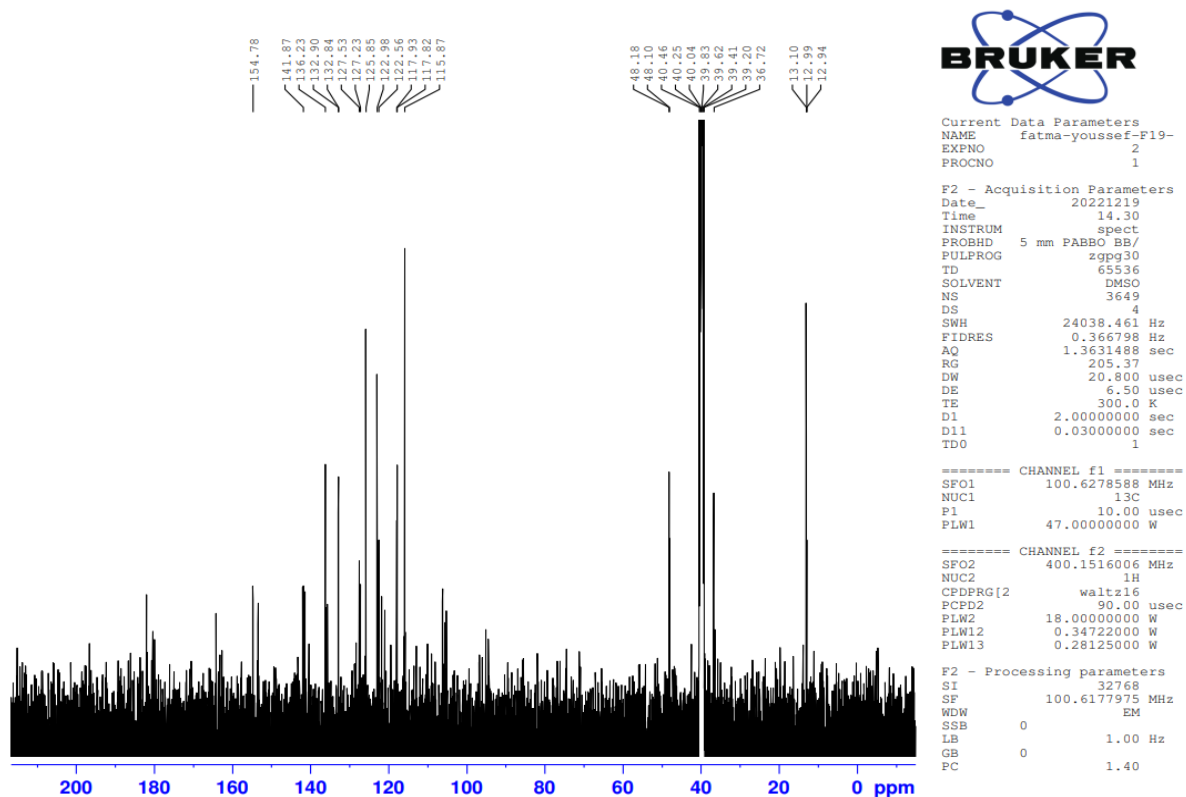


Chart 65. ^{13}C NMR of compound 7(DMSO)

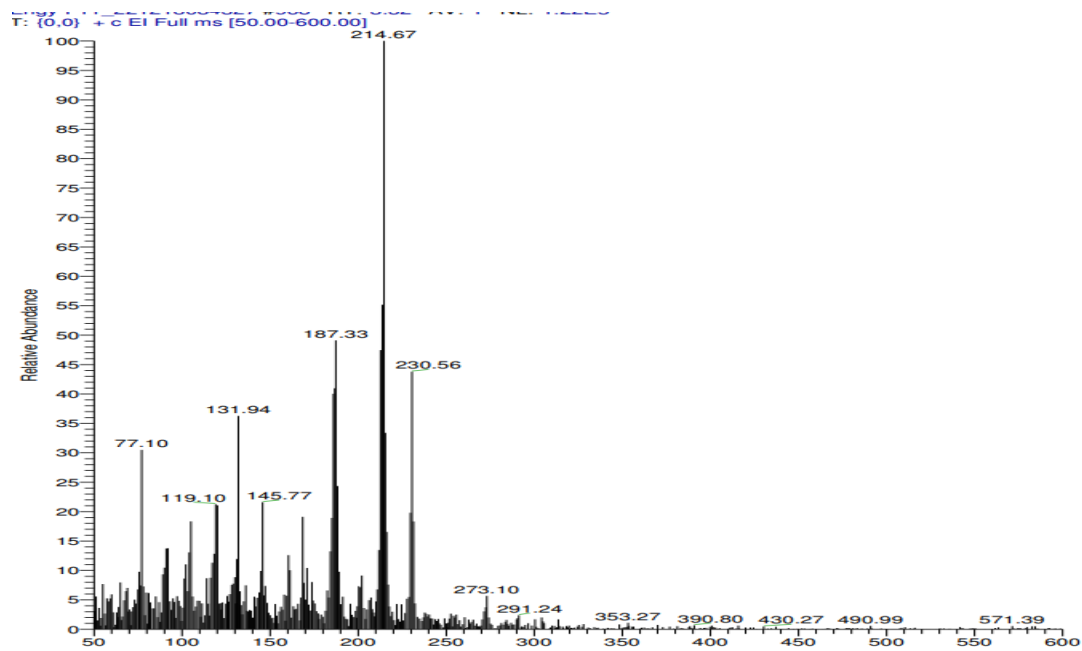


Chart 66. Mass of compound 7

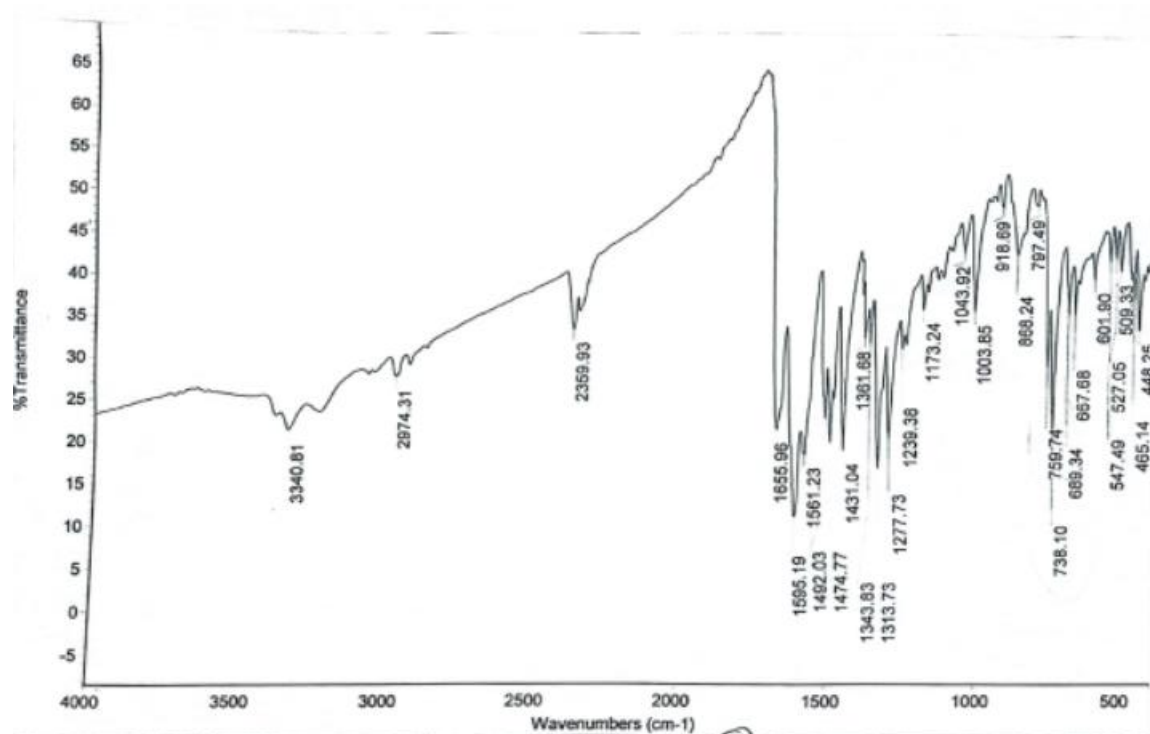


Chart 67. IR of compound 8a

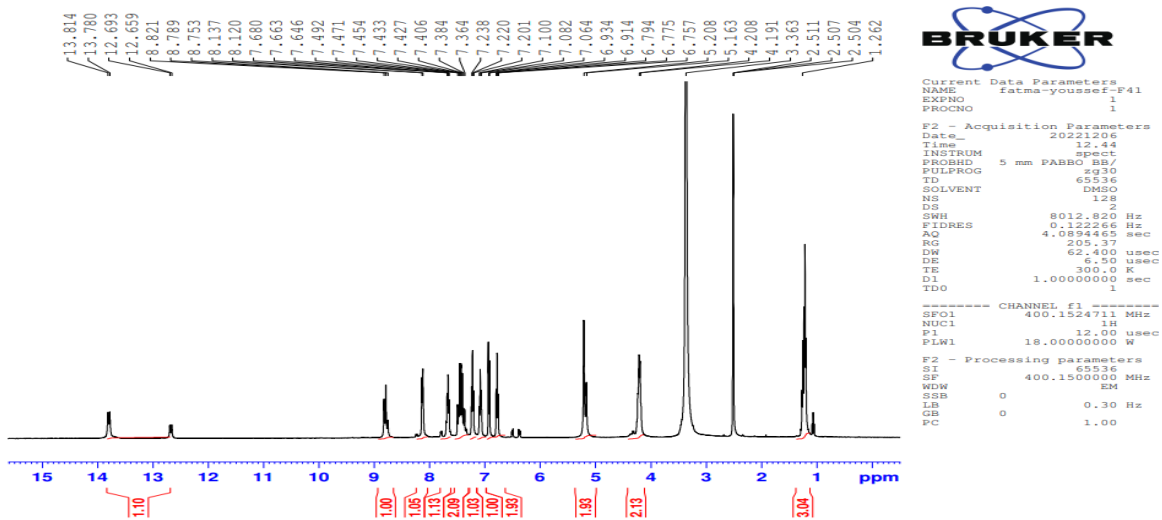


Chart 68. ^1H NMR of compound 8a (DMSO)

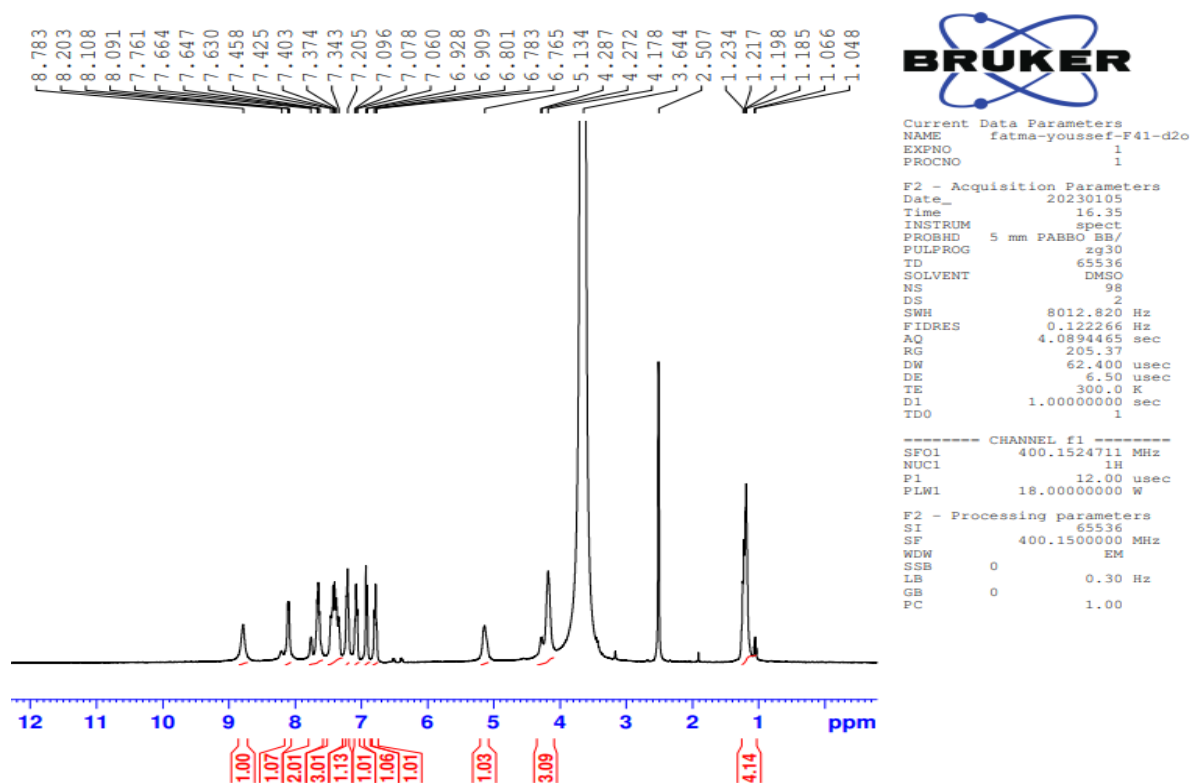


Chart 69. ^1H NMR of compound 8a (DMSO\(<\text{D}_2\text{O}\text{))

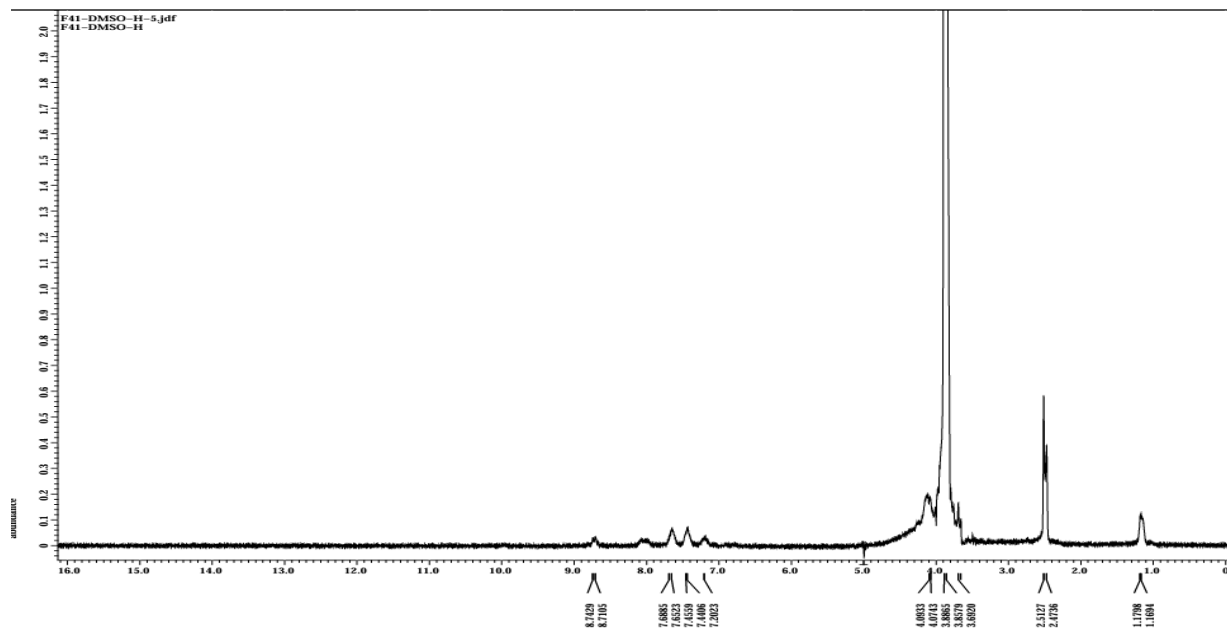


Chart 70. ^1H NMR of compound 8a (DMSO\D₂O)

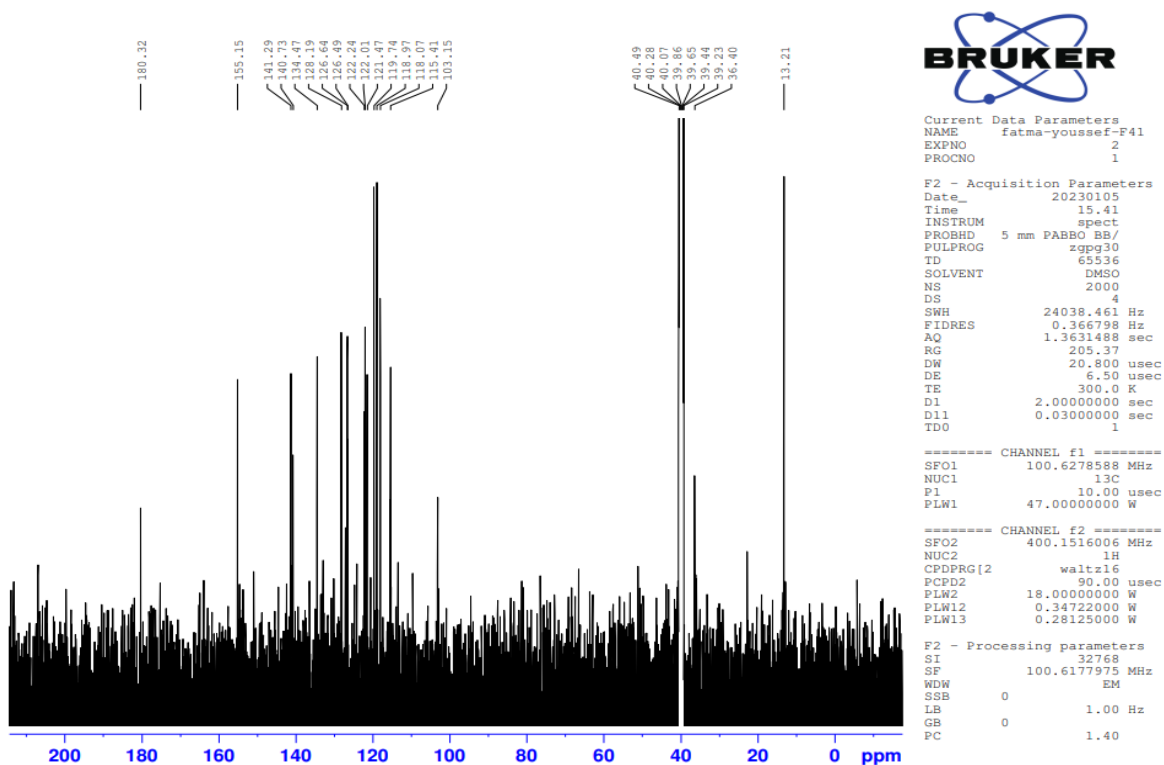


Chart 71. ^{13}C NMR of compound 8a (DMSO)

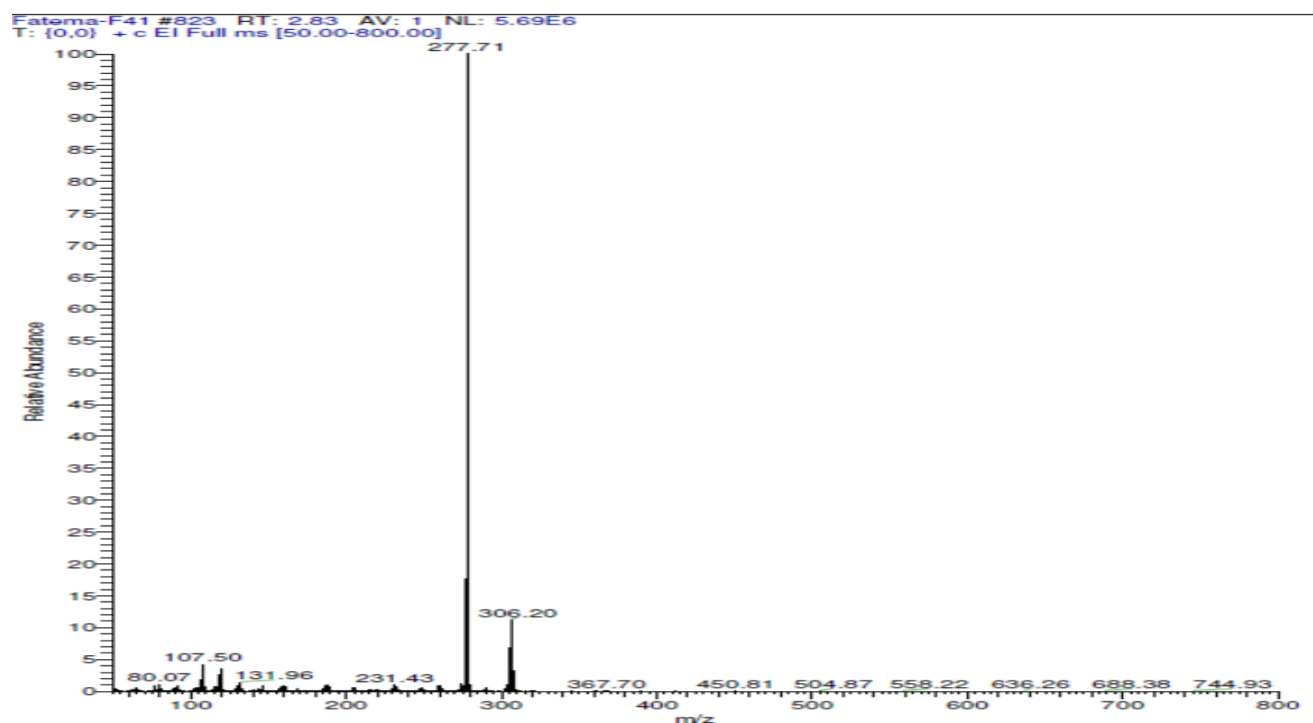


Chart 72. Mass of compound 8a

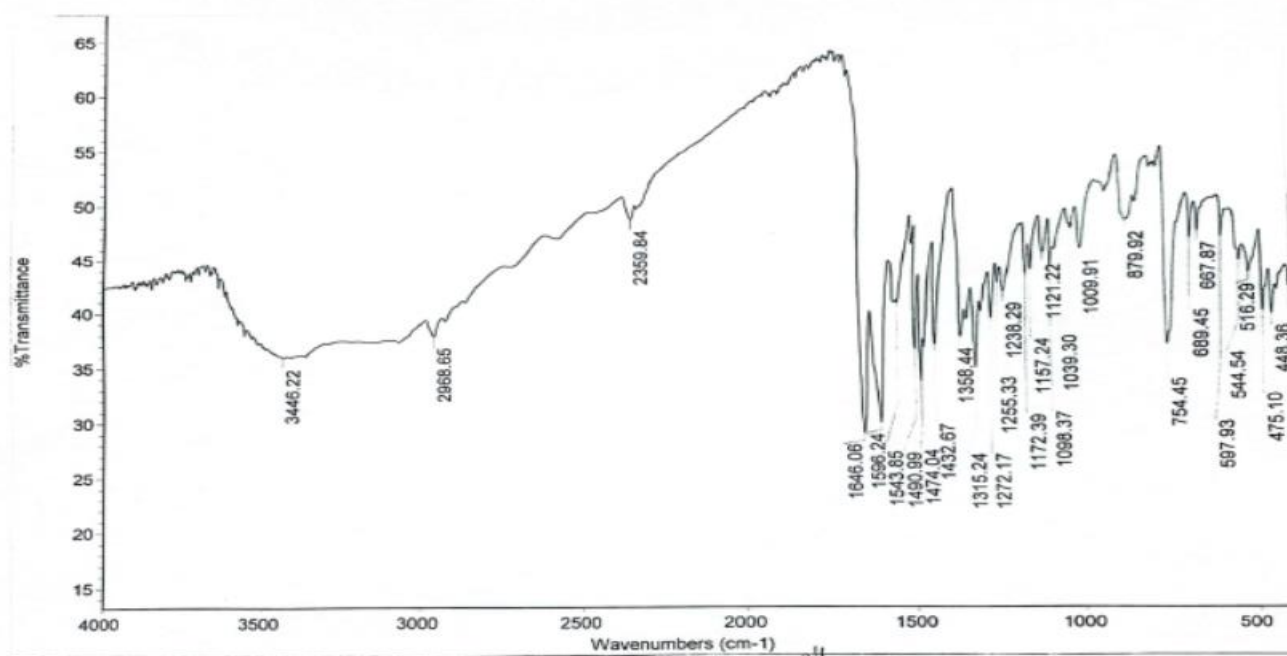


Chart 73. IR of compound 8b

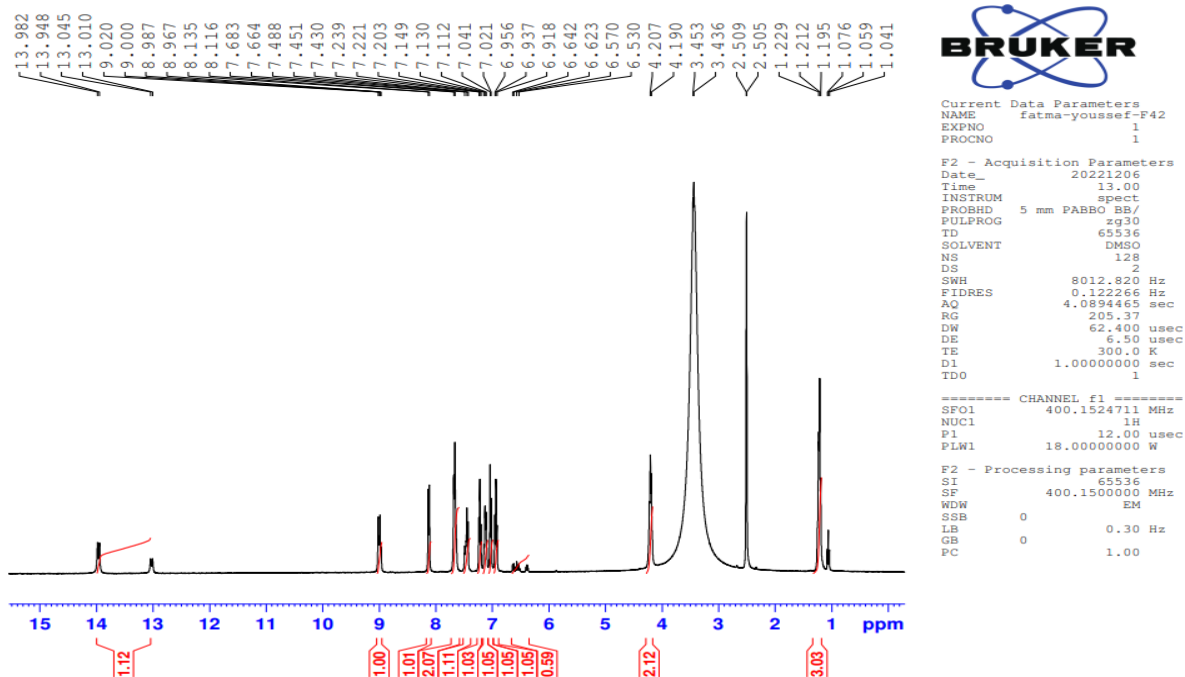


Chart 74. ^1H NMR of compound 8b (DMSO)

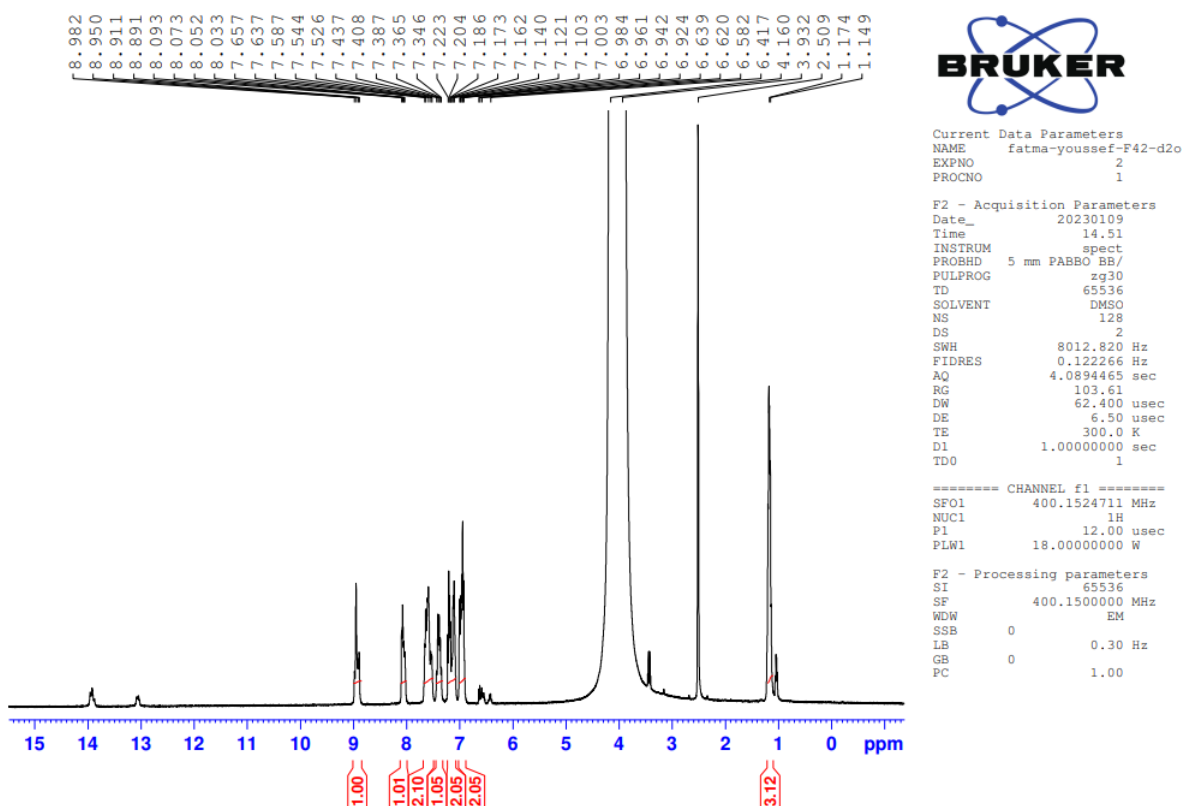


Chart 75. ^1H NMR of compound 8b (DMSO\(<>\text{D}_2\text{O})

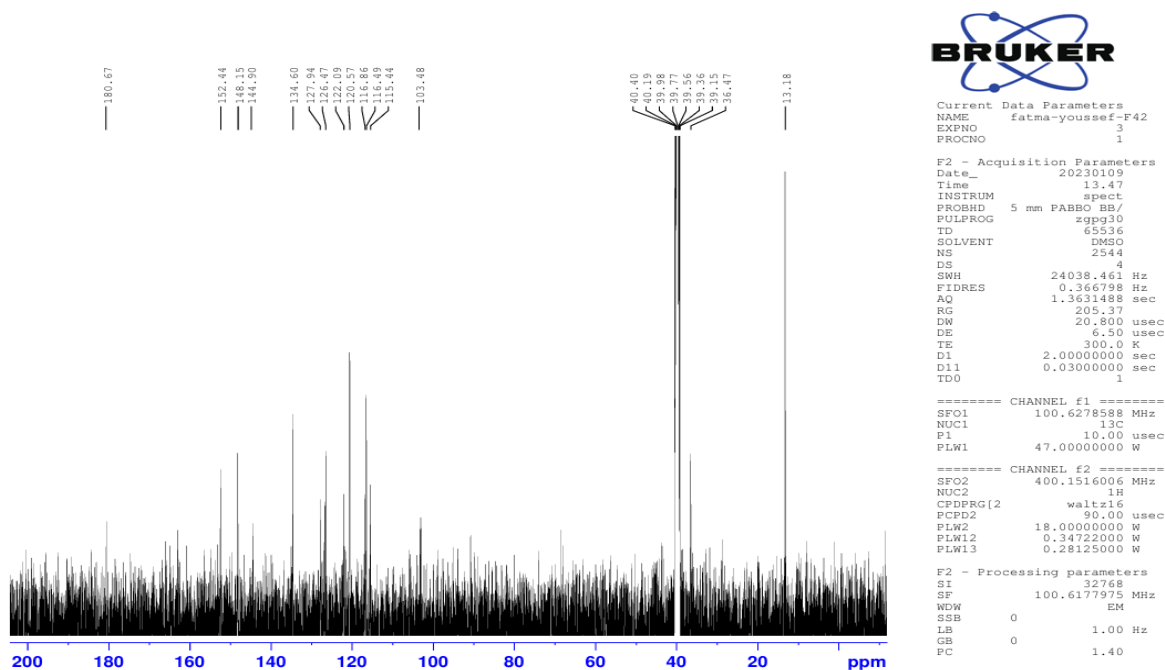


Chart 76. ^{13}C NMR of compound 8b (DMSO)

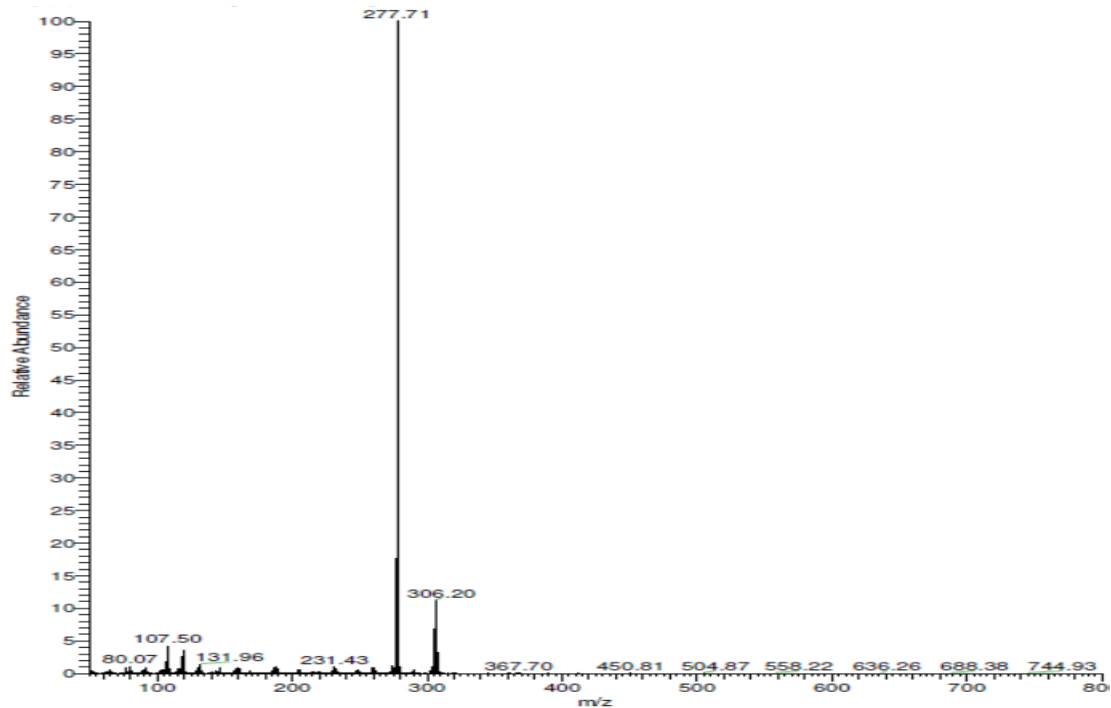


Chart 77. Mass of compound 8b

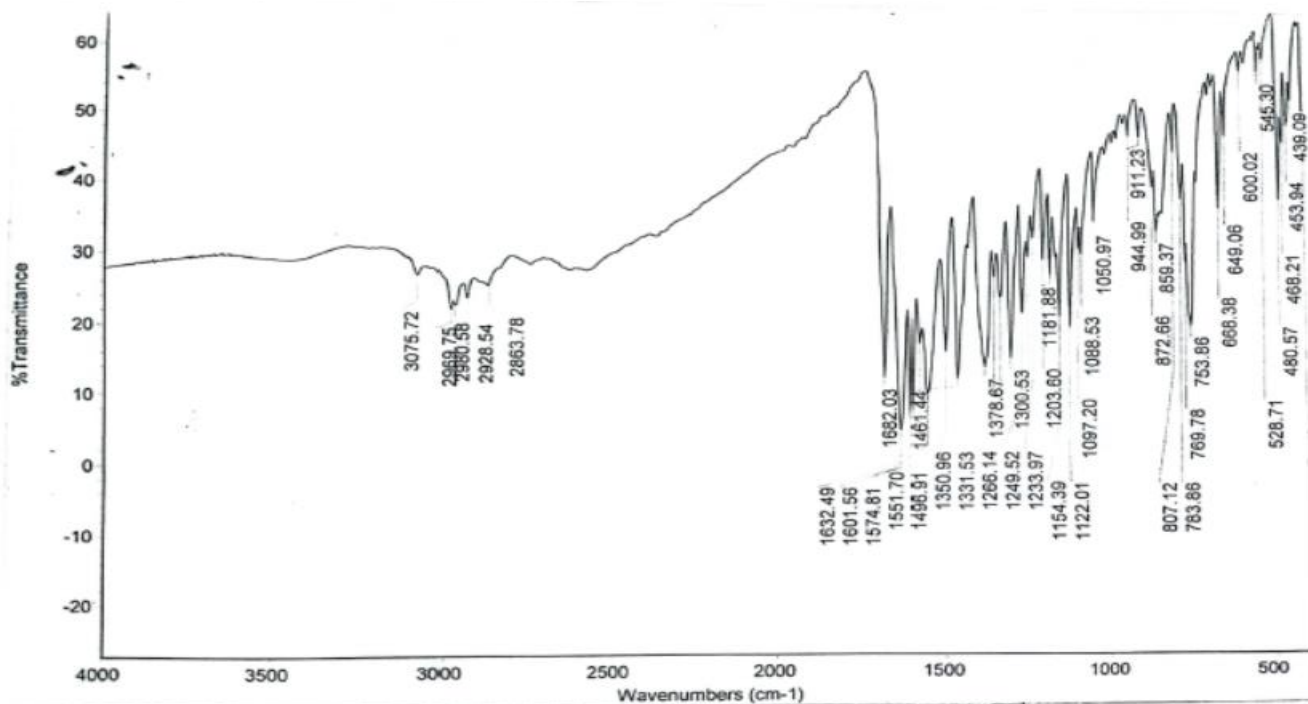


Chart 78. IR of compound 9a

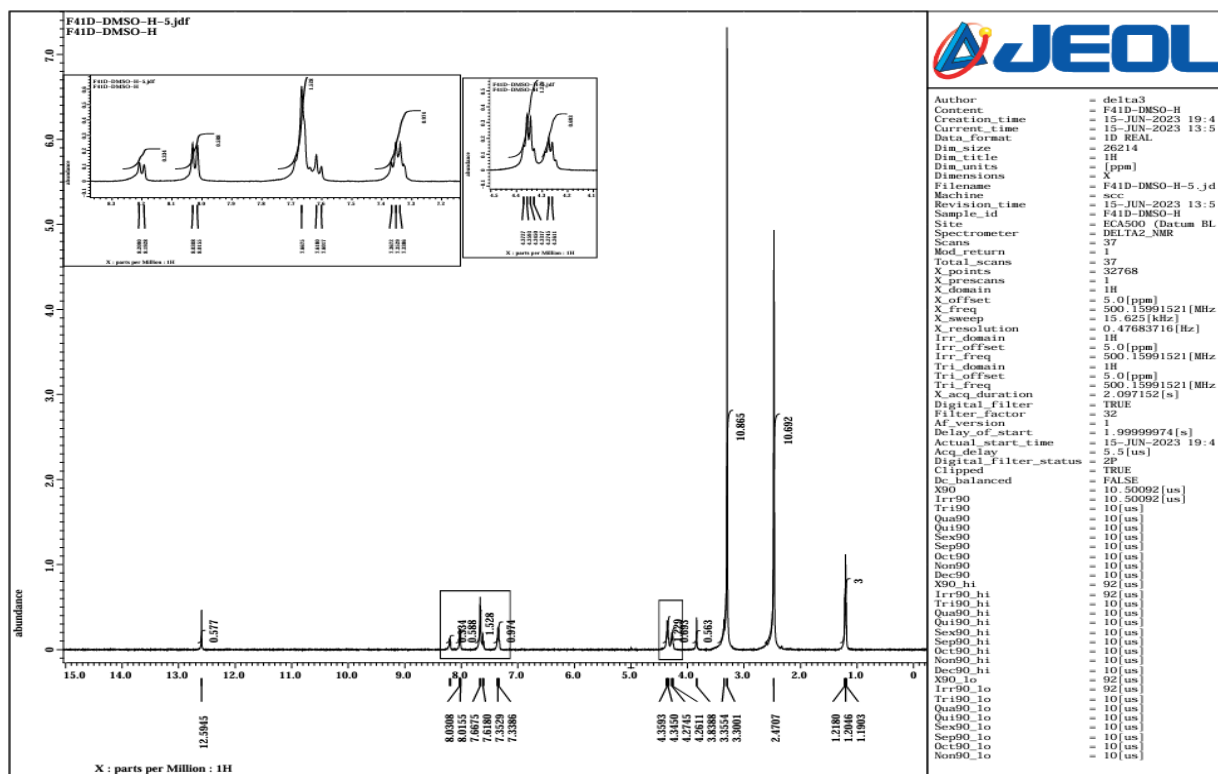


Chart 79. ¹H NMR of compound 9a (DMSO)

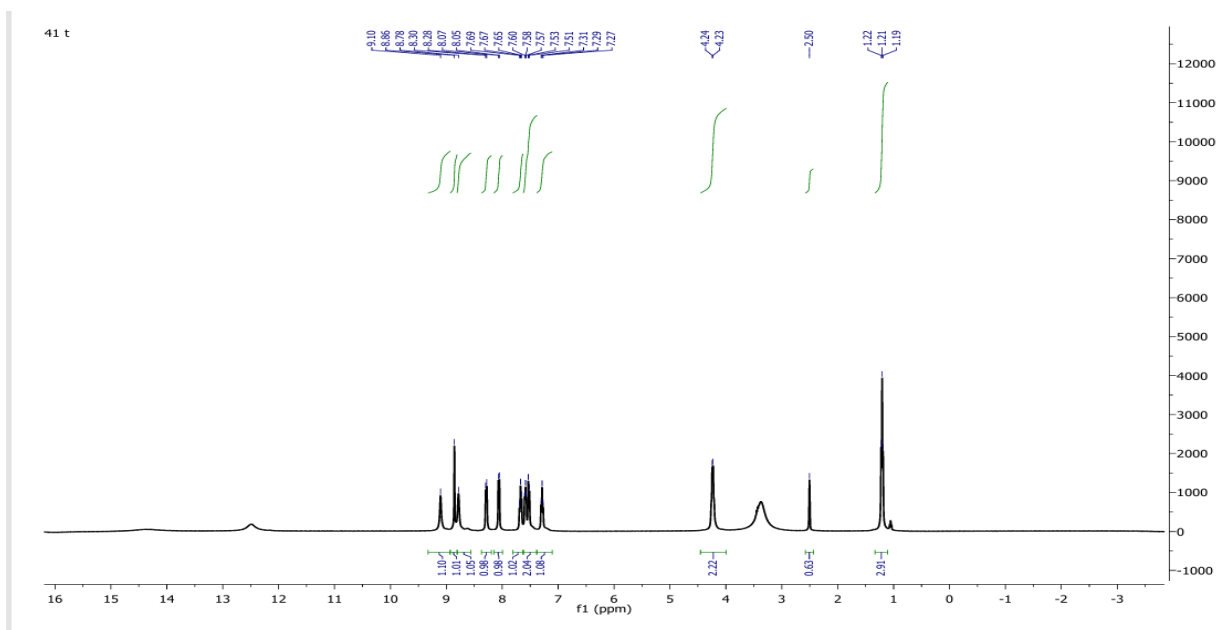


Chart 80. ^1H NMR of compound 9a (DMSO- D_2O)

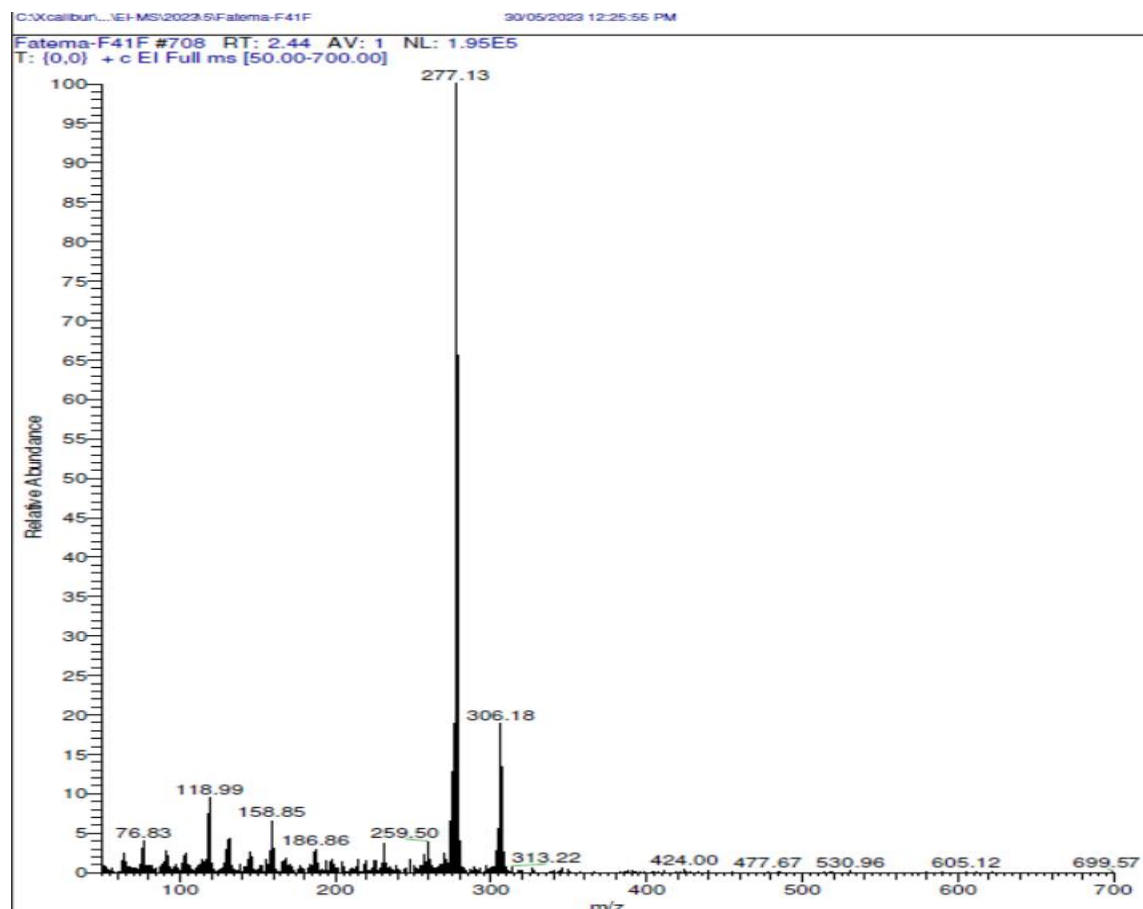


Chart 81. Mass of compound 9a

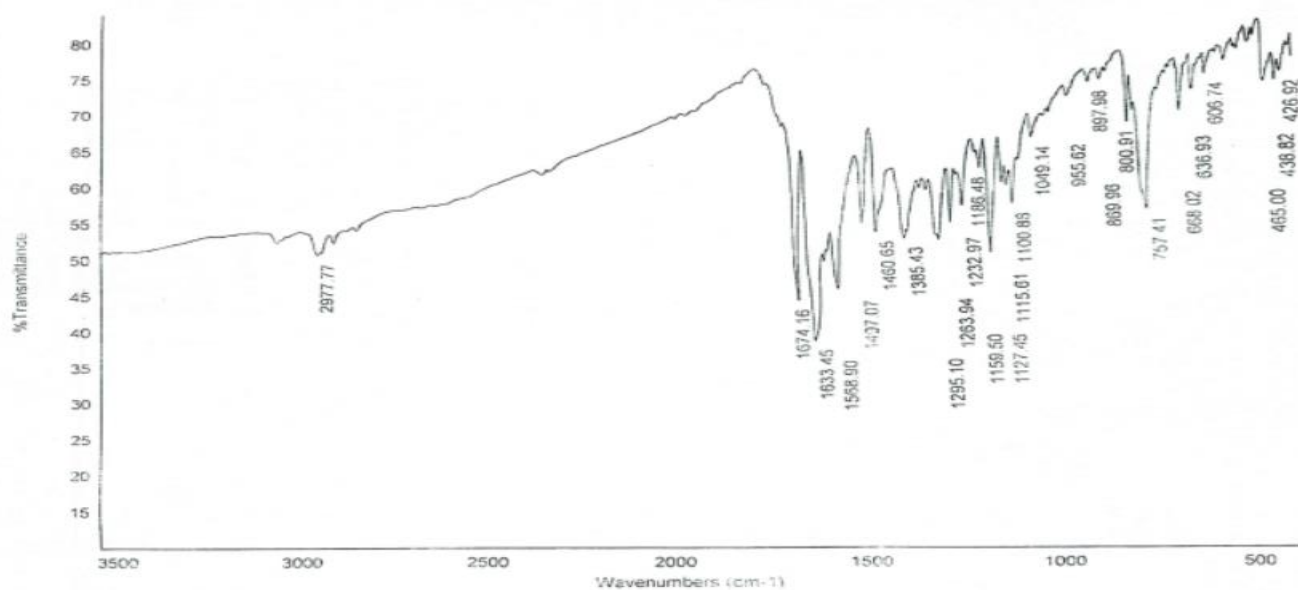


Chart 82. IR of compound 9b

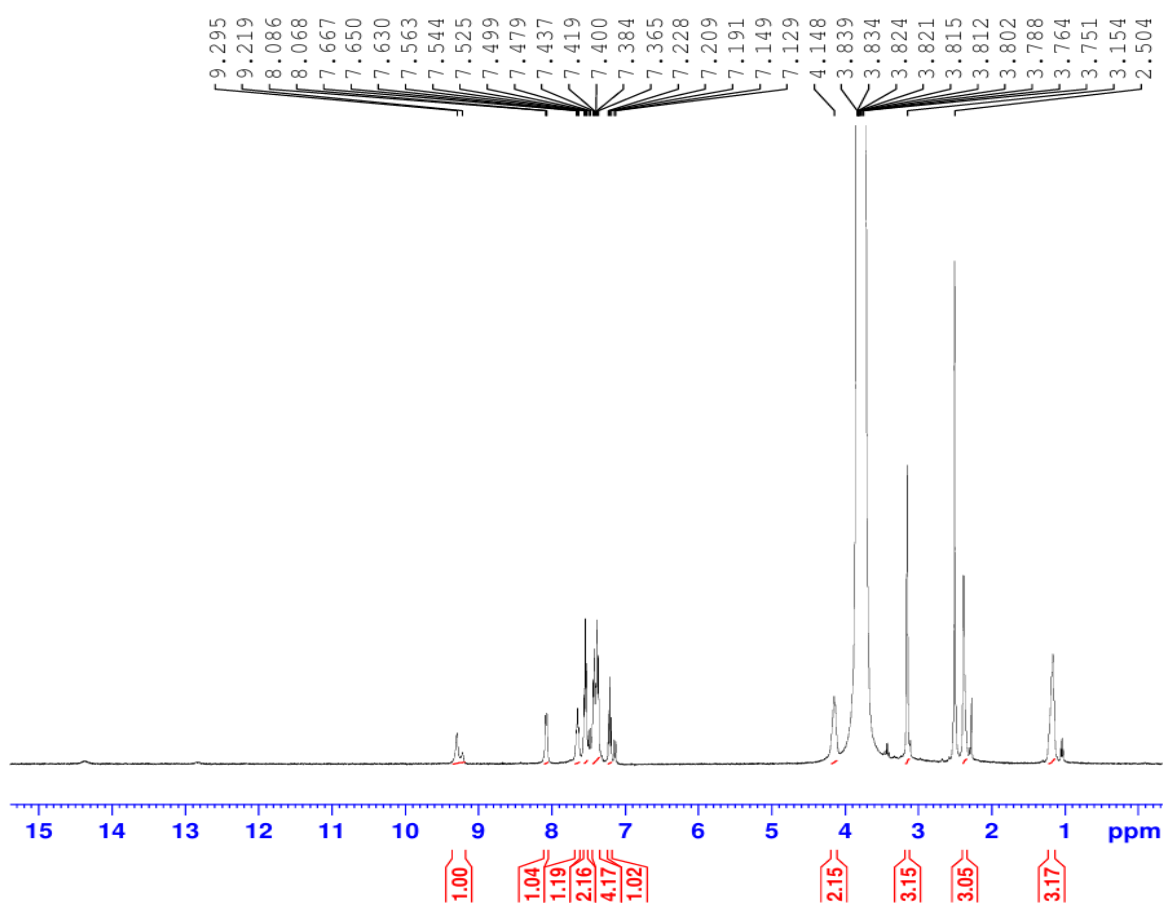


Chart 83. ¹H NMR of compound 9b (DMSO)

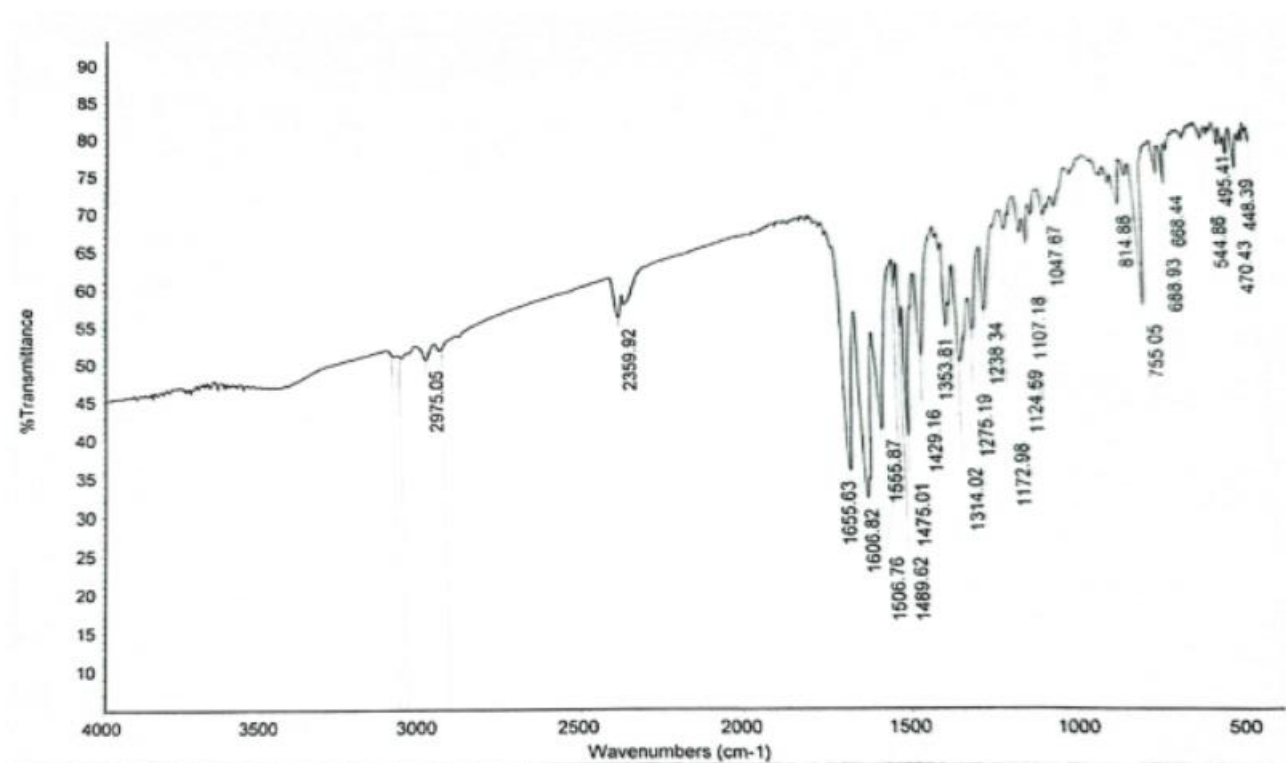


Chart 84. IR of compound 10

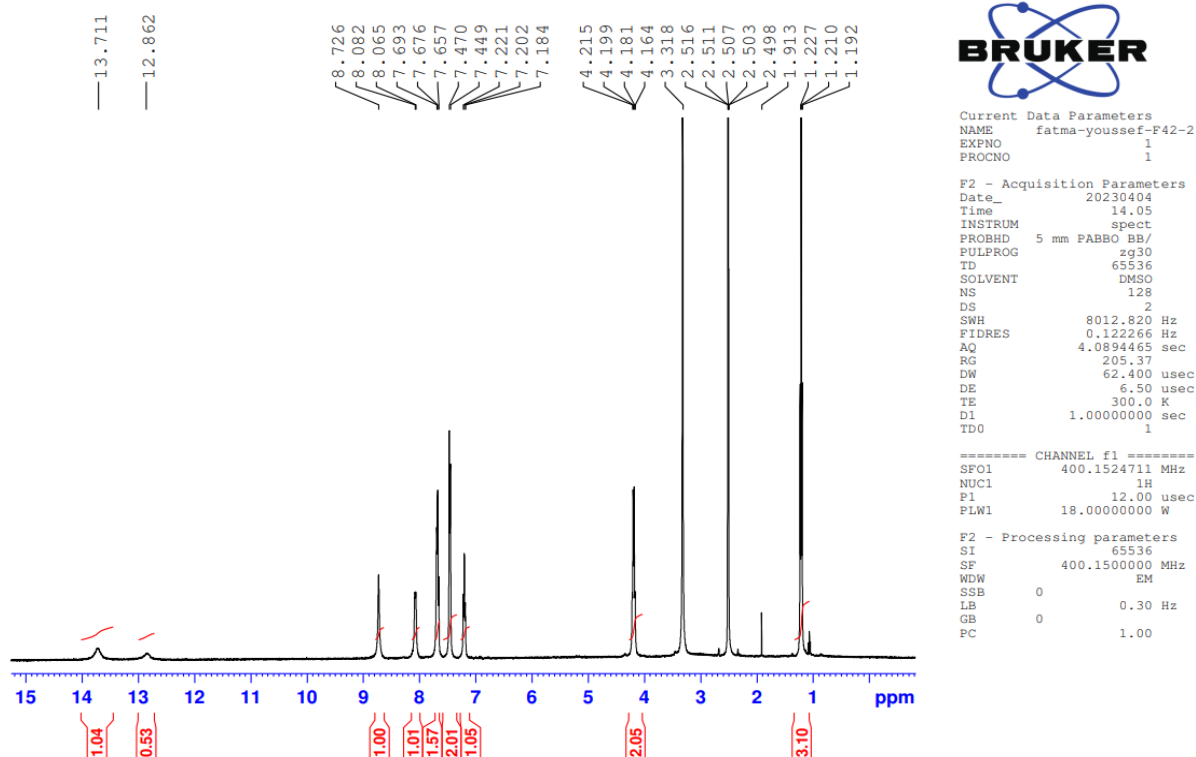


Chart 85. ¹H NMR of compound 10(DMSO)

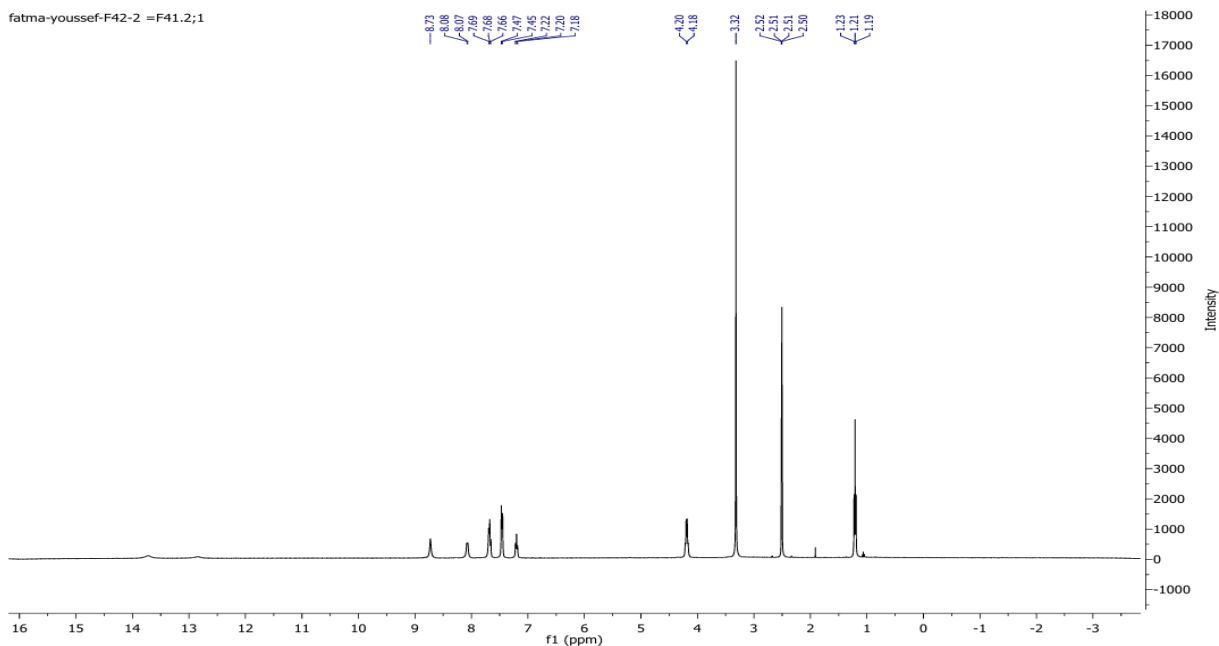


Chart 86. ^1H NMR of compound 10 (DMSO- D_2O)

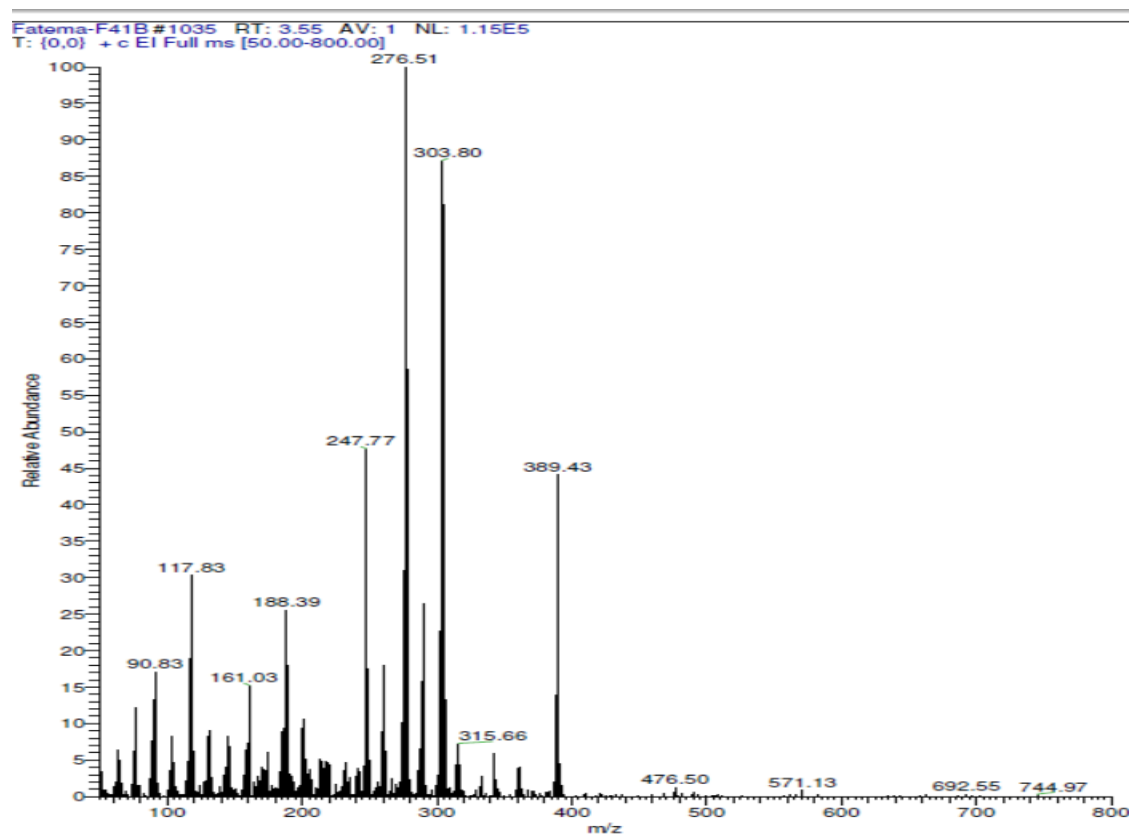


Chart 87. Mass of compound 10