

2-((1H-1,2,4-triazol-1-yl) methyl) amino) nicotinic acid, 1

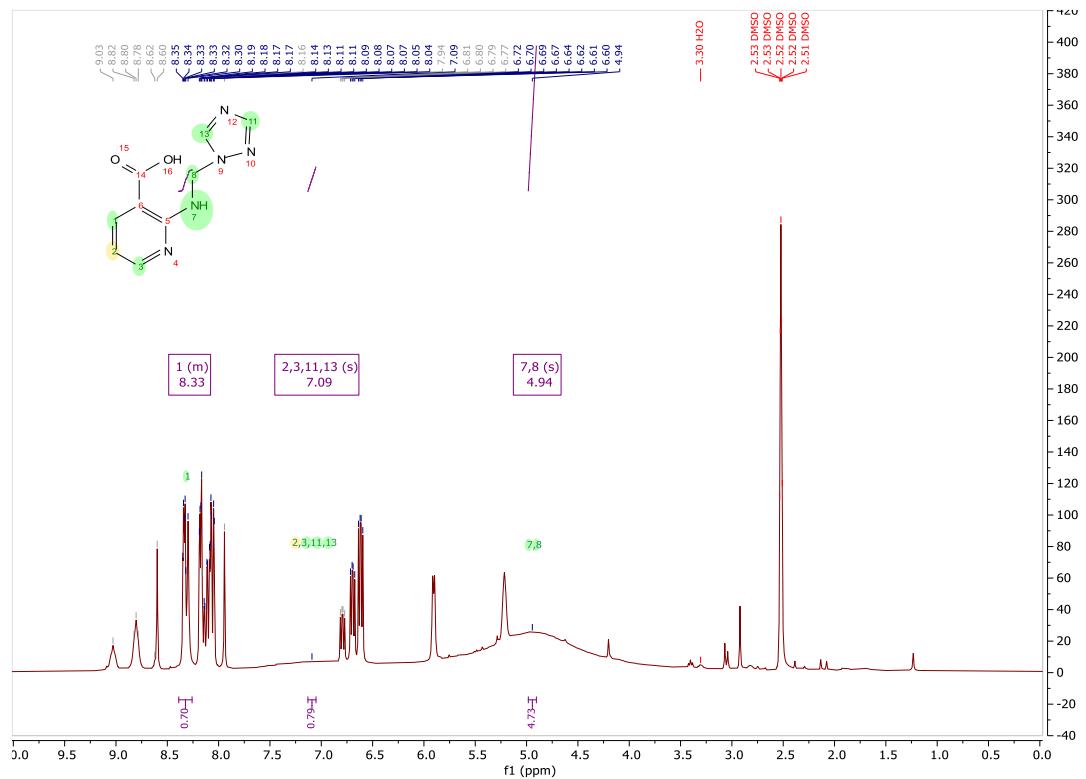


Figure 1. ^1H NMR spectrum of 2-((1H-1,2,4-triazol-1-yl) methyl) amino) nicotinic acid, 1

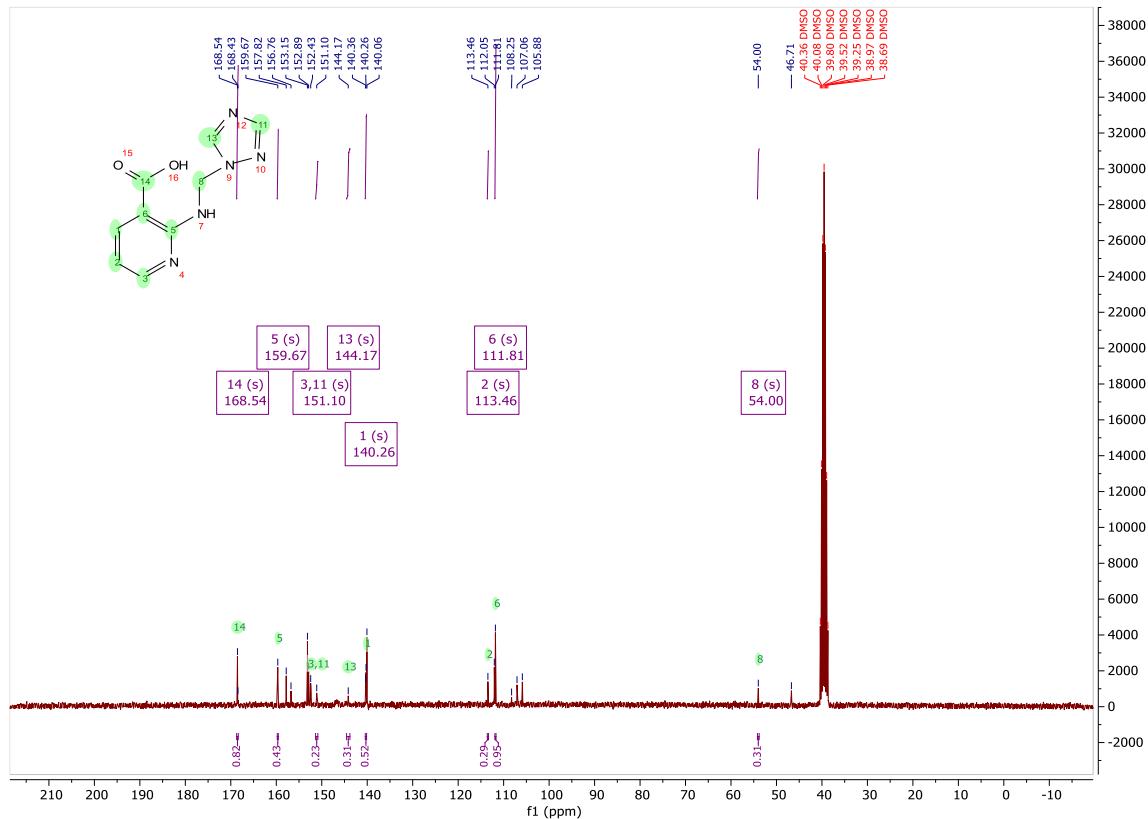


Figure 2. ^{13}C NMR spectrum of 2-((1H-1,2,4-triazol-1-yl) methyl) amino) nicotinic acid, 1

N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 2

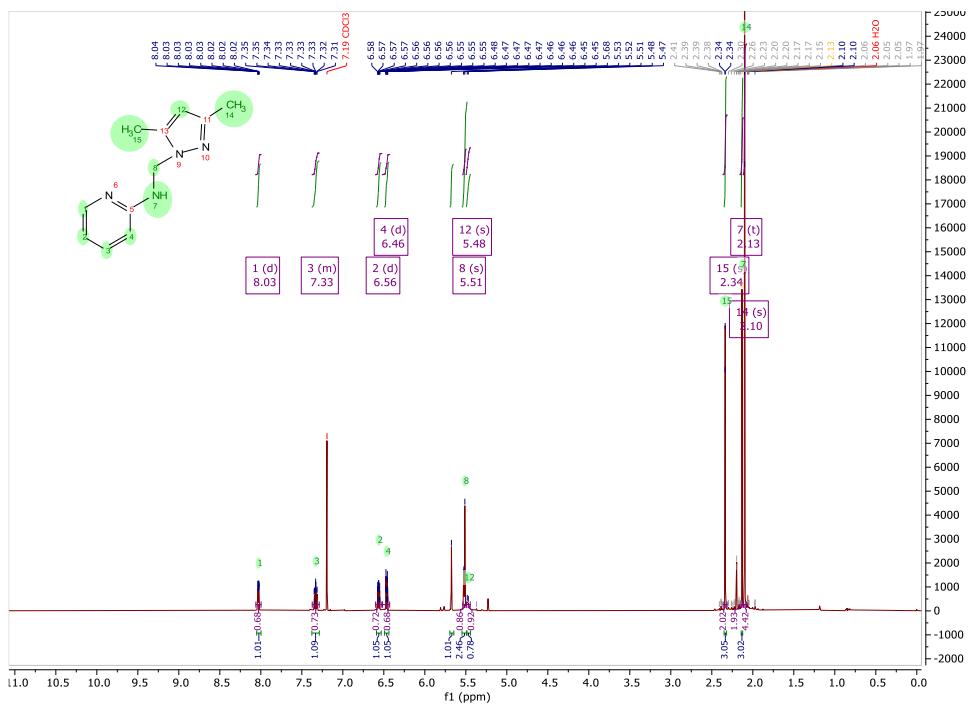


Figure 3. ^1H NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 2

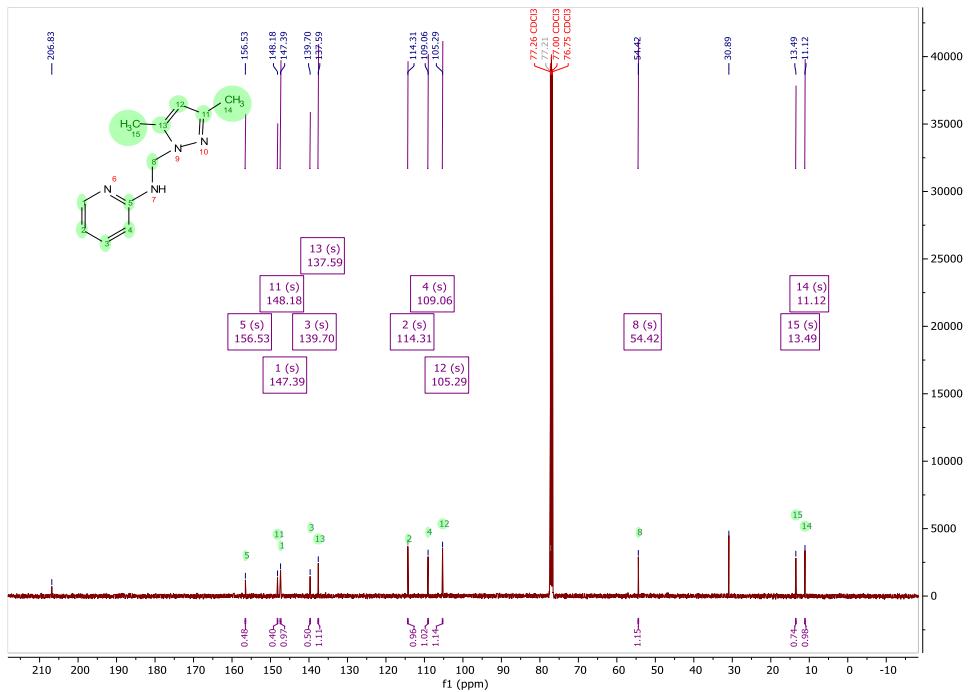


Figure 4. ^{13}C NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 2

02 #29 RT: 3.59 AV: 1 AV: 5 SB: 12 22-27 31-36 NL: 3.66E4
 T: + c EI Full ms [50.000-300.000]

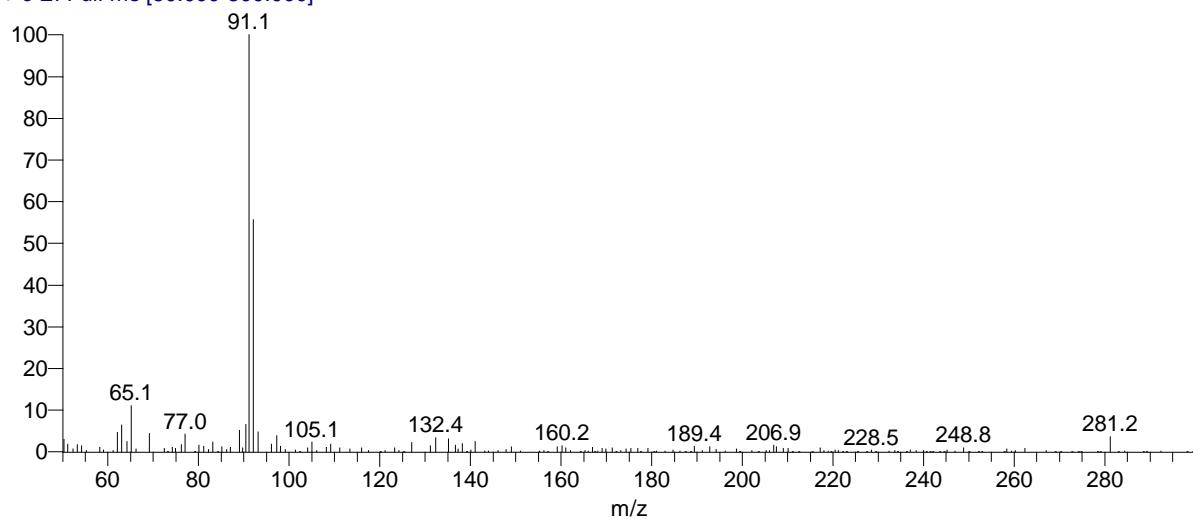


Figure 5. GC-MS spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 2

N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl)-6-methylpyridin-2-amine, 3

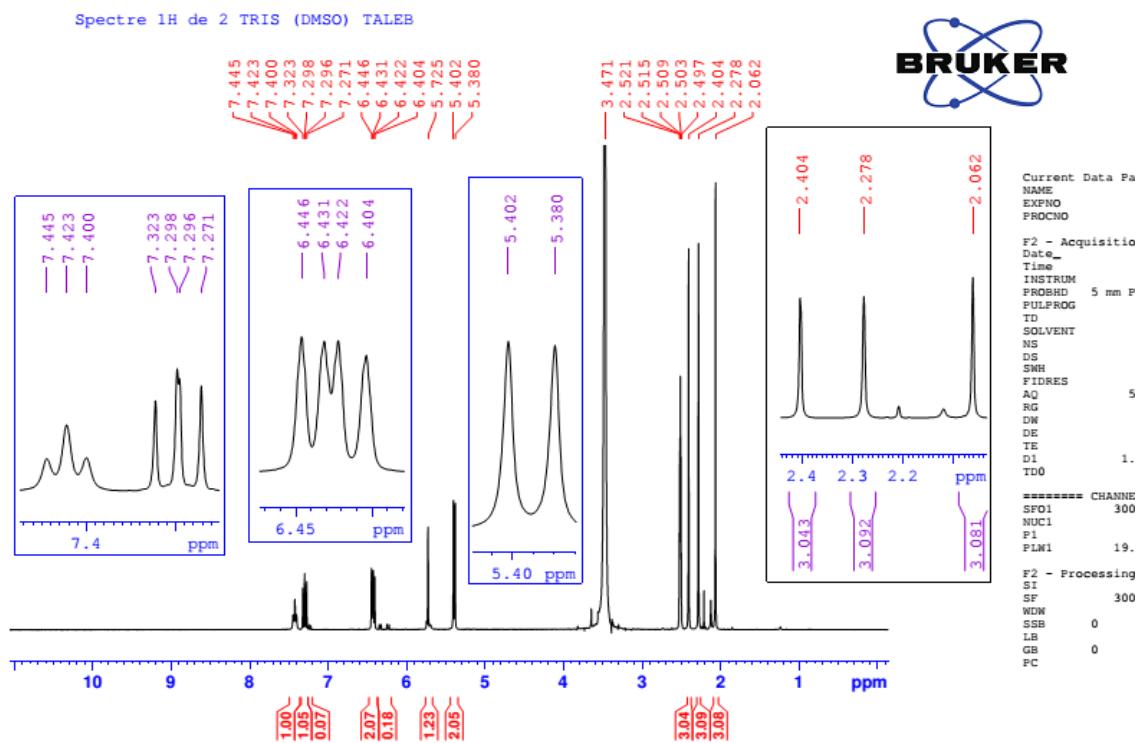


Figure 6. ¹H NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl)-6-methylpyridin-2-amine, 3

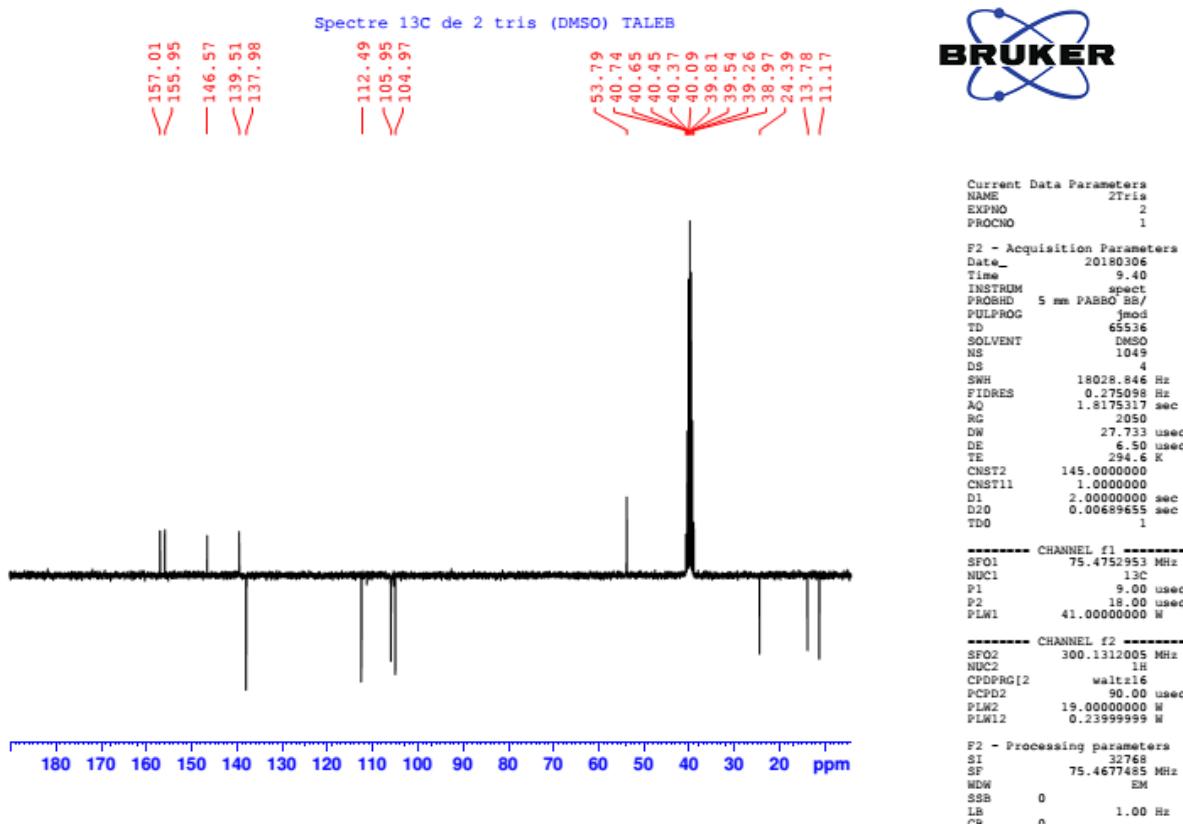


Figure 7. ^{13}C NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl)-6-methylpyridin-2-amine, 3

09 #415 RT: 4.89 AV: 1 AV: 5 SB: 12 408-413 417-422 NL: 4.02E3
T: + c EI Full ms [50.000-300.000]

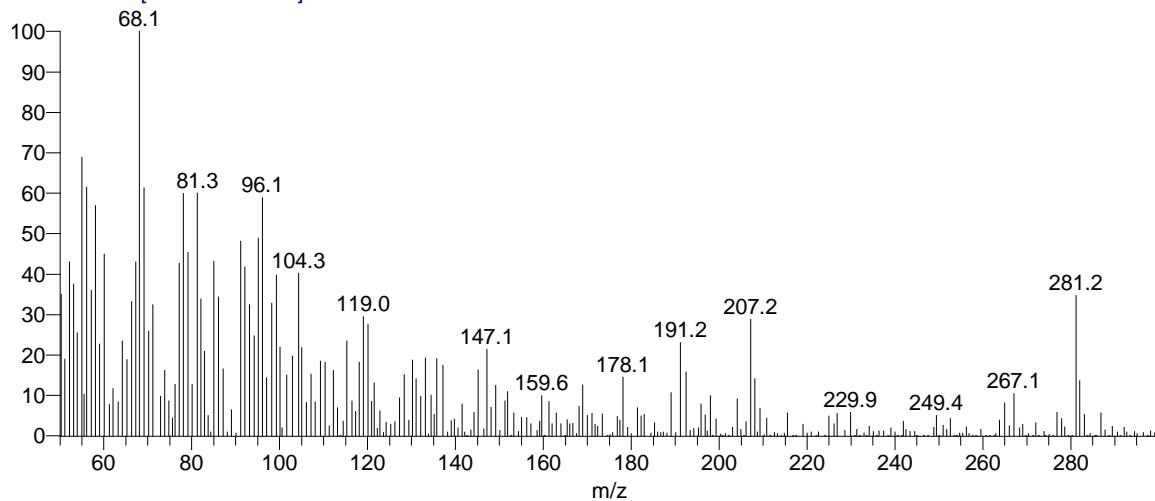


Figure 8. GC-MS spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl)-6-methylpyridin-2-amine, 3

N-((1H-1,2,4-triazol-1-yl) methyl)-5-bromopyridin-2-amine, 4

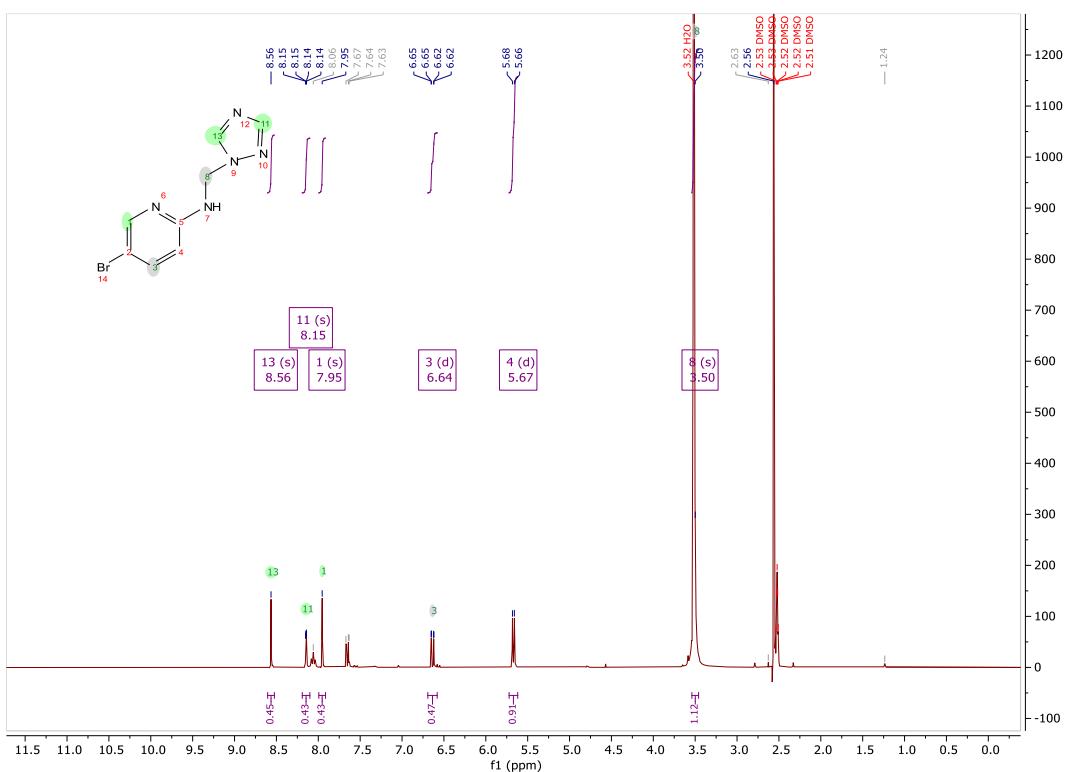


Figure 9. ^1H NMR spectrum of N-((1H-1,2,4-triazol-1-yl) methyl)-5-bromopyridin-2-amine, 4

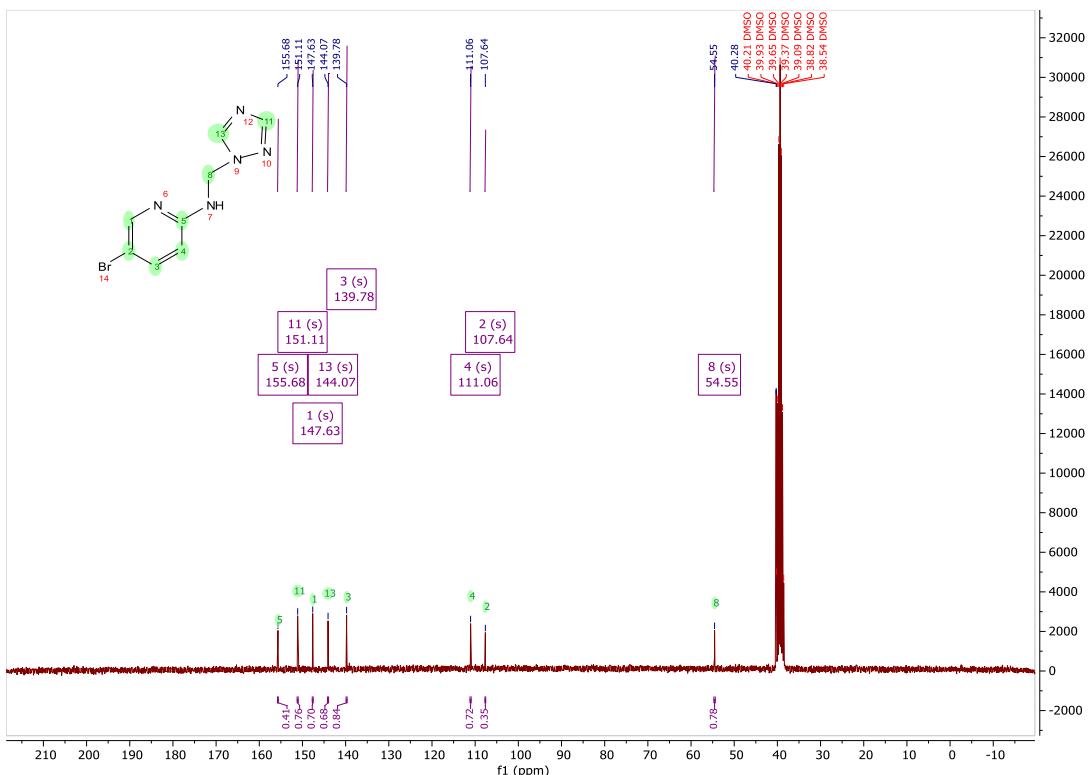


Figure 10. ^{13}C NMR spectrum of N-((1H-1,2,4-triazol-1-yl) methyl)-5-bromopyridin-2-amine, 4

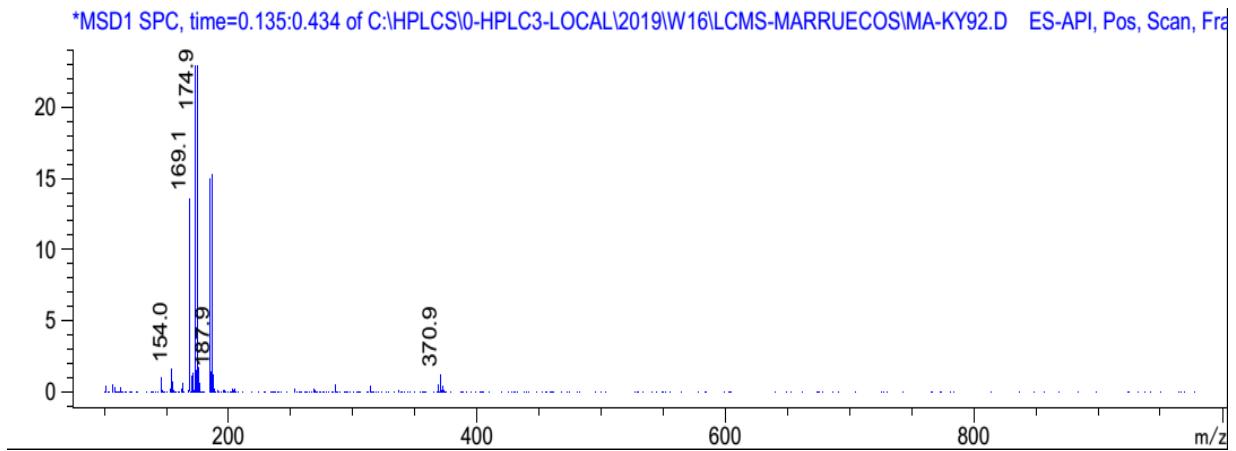


Figure 11. GC-MS spectrum of N-((1H-1,2,4-triazol-1-yl) methyl)-5-bromopyridin-2-amine, 4

N-((1H-pyrazol-1-yl) methyl)-5-bromopyridin-2-amine, 5

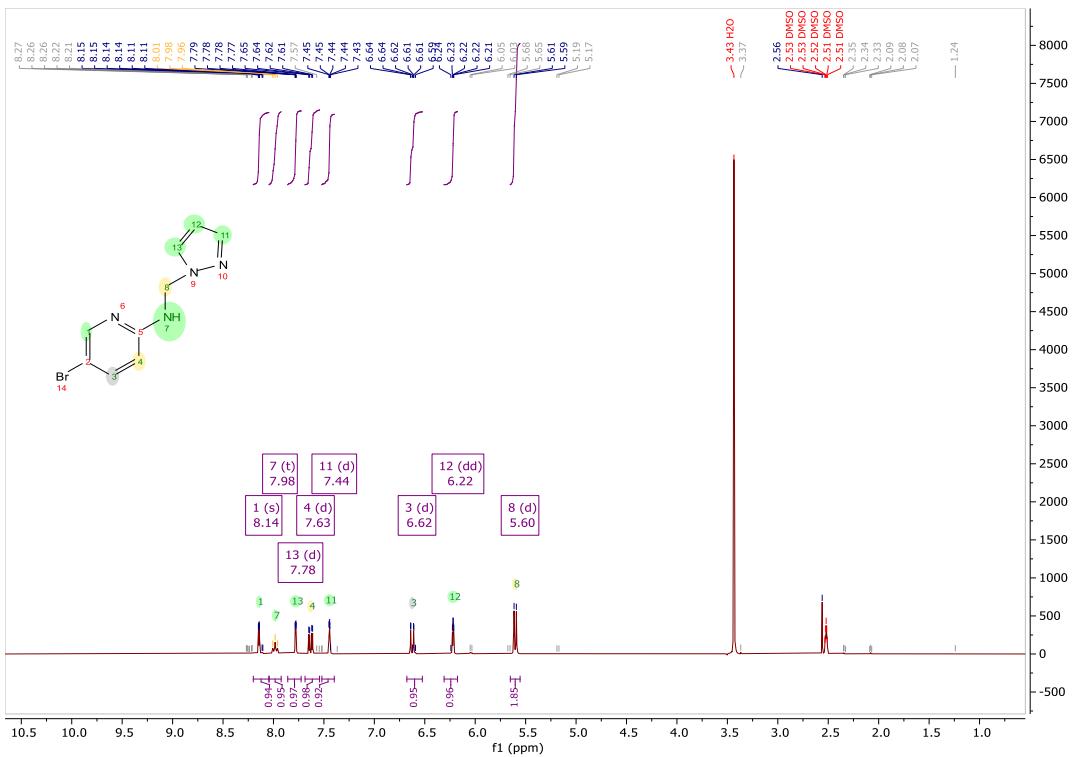


Figure 12. ^1H NMR spectrum of N-((1H-pyrazol-1-yl) methyl)-5-bromopyridin-2-amine, 5

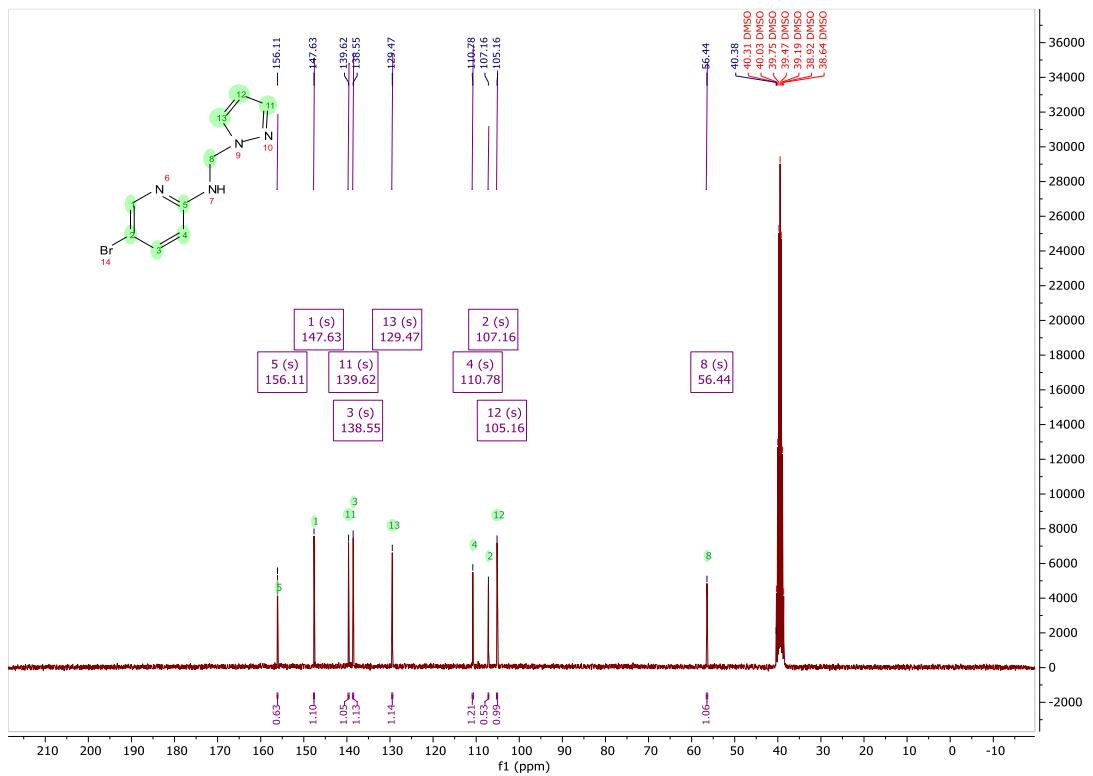


Figure 13. ^{13}C NMR spectrum of N-((1H-pyrazol-1-yl) methyl)-5-bromopyridin-2-amine, 5

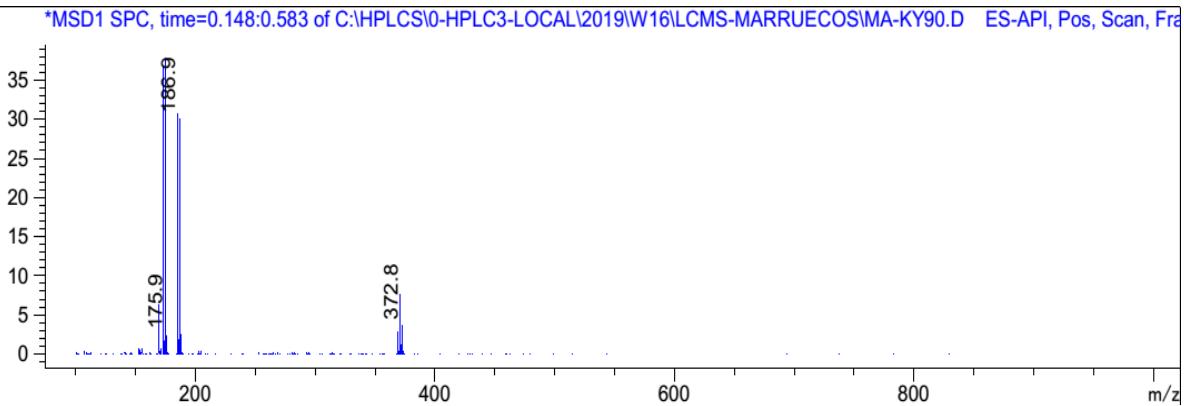


Figure 14. GC-MS spectrum of N-((1H-pyrazol-1-yl) methyl)-5-bromopyridin-2-amine, 5

5-bromo-N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 6

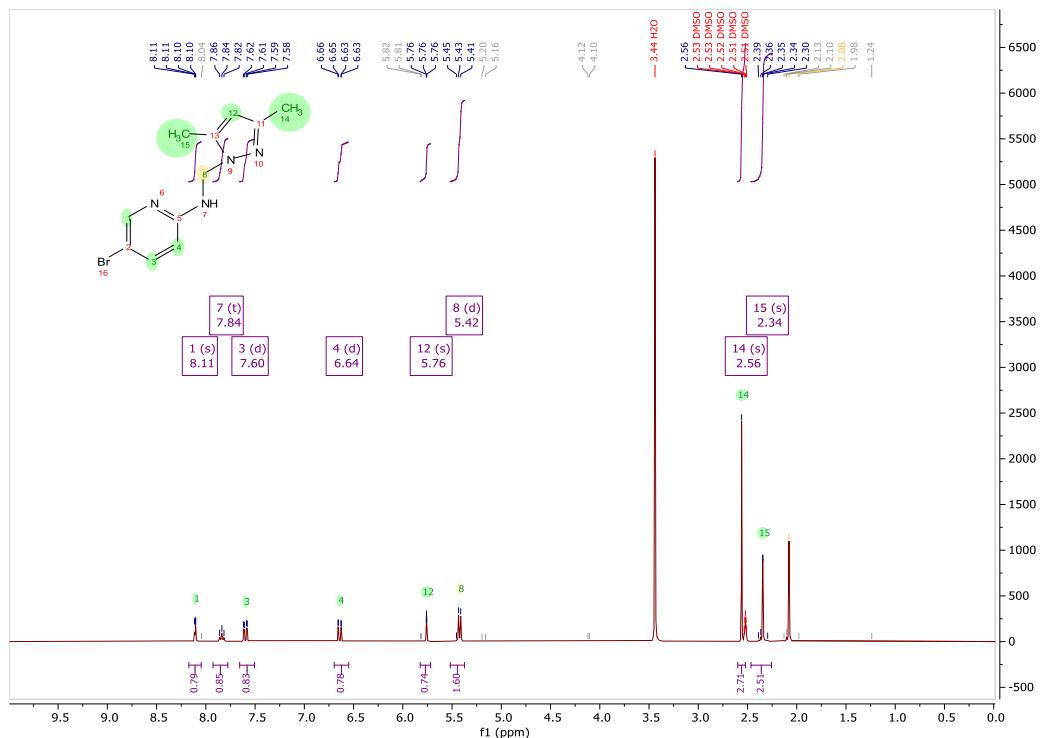


Figure 15. ¹H NMR spectrum of 5-bromo-N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 6

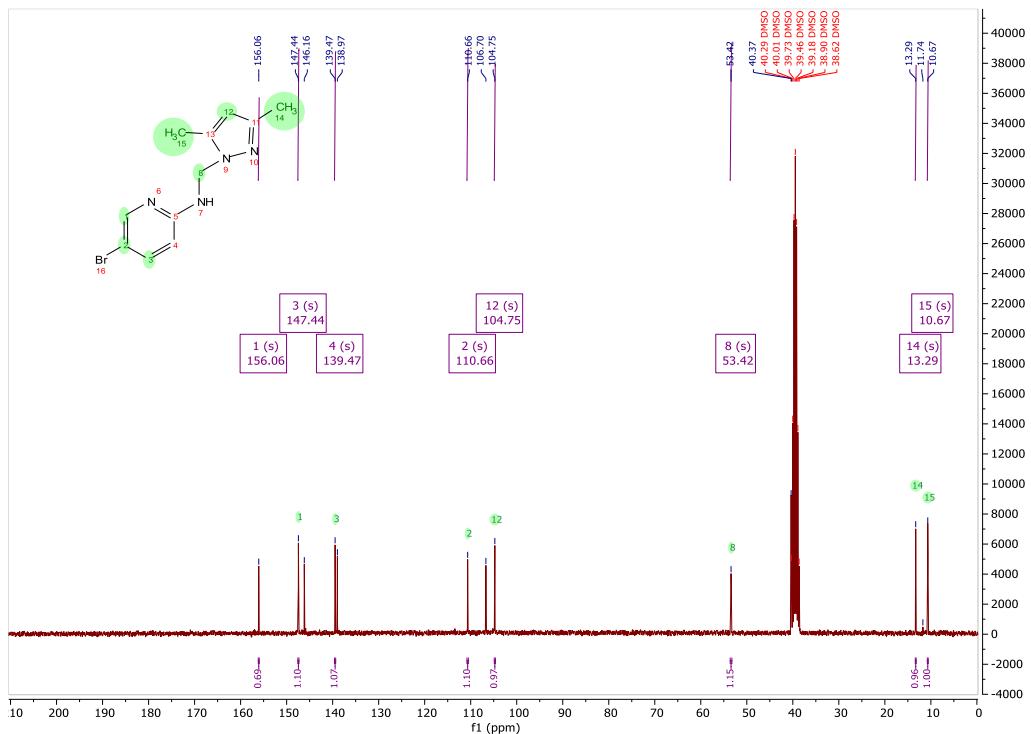


Figure 16. ¹³C NMR spectrum of 5-bromo-N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 6

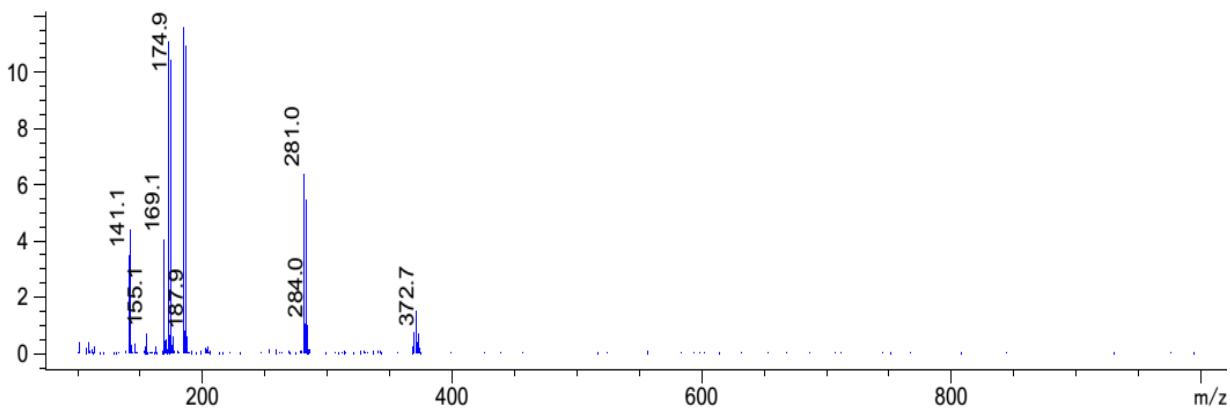


Figure 17. GC-MS spectrum of 5-bromo-N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-2-amine, 6

N-((1H-pyrazol-1-yl) methyl) thiazol-2-amine, 7

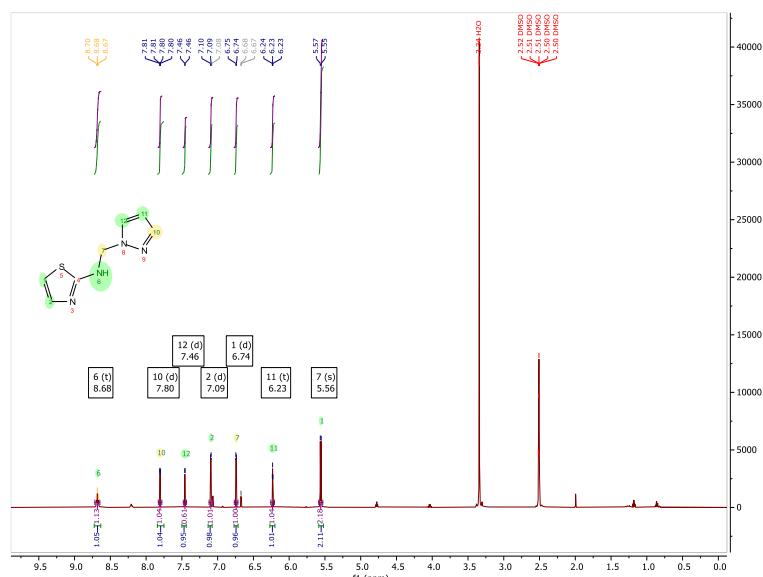


Figure 18. ^1H NMR spectrum of N-((1*H*-pyrazol-1-yl) methyl) thiazol-2-amine, 7

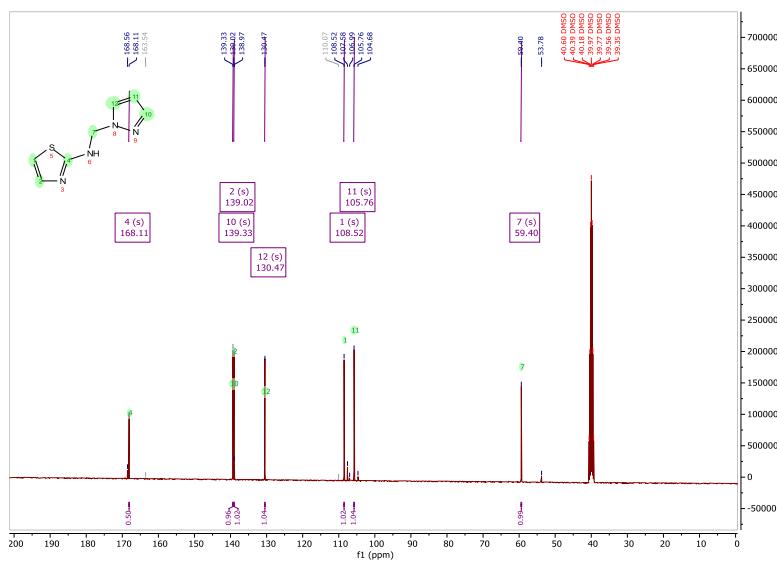


Figure 19. ^{13}C NMR spectrum of N-((1H-pyrazol-1-yl) methyl) thiazol-2-amine, 7

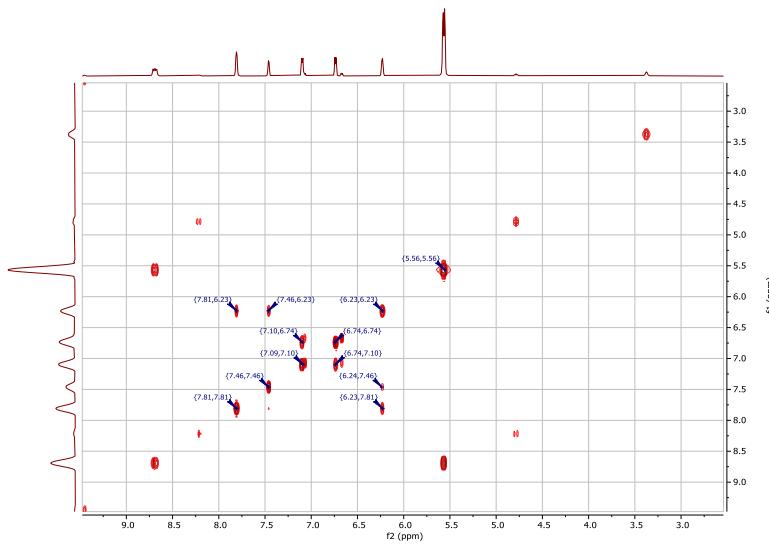


Figure 20. 2D NMR COSY spectrum of N-((1H-pyrazol-1-yl) methyl) thiazol-2-amine, 7

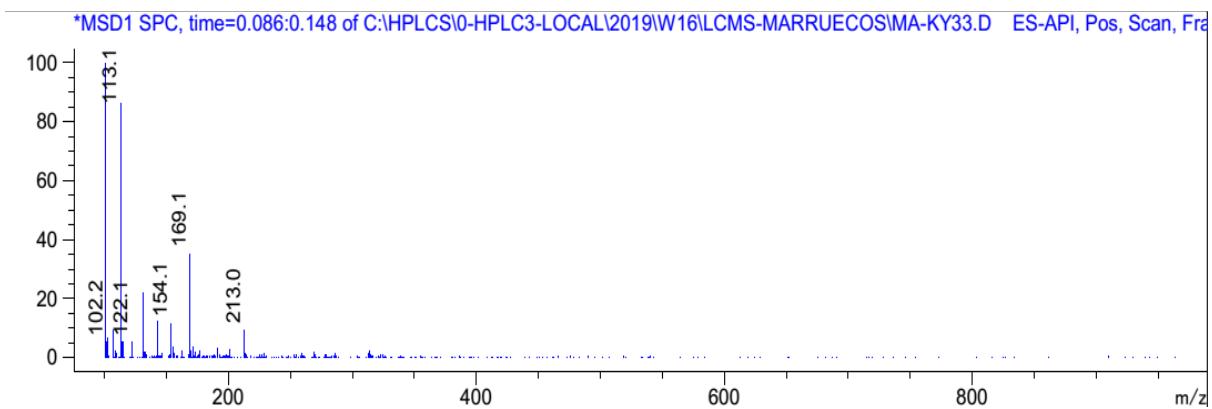


Figure 21. GC-MS spectrum of N-((1H-pyrazol-1-yl) methyl) thiazol-2-amine, 7

N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) thiazol-2-amine, 8

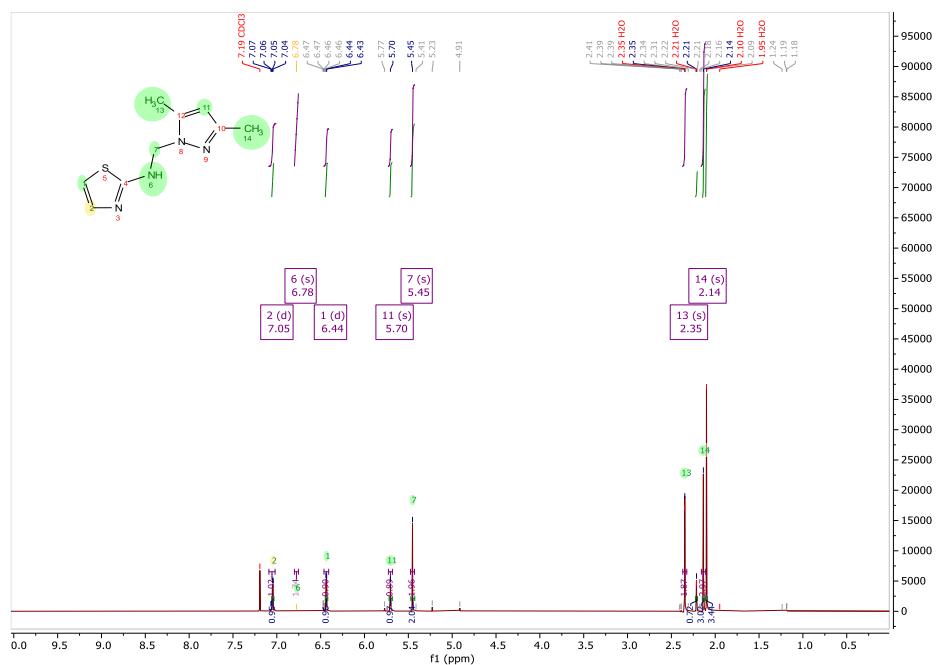


Figure 22. ^1H NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) thiazol-2-amine, 8

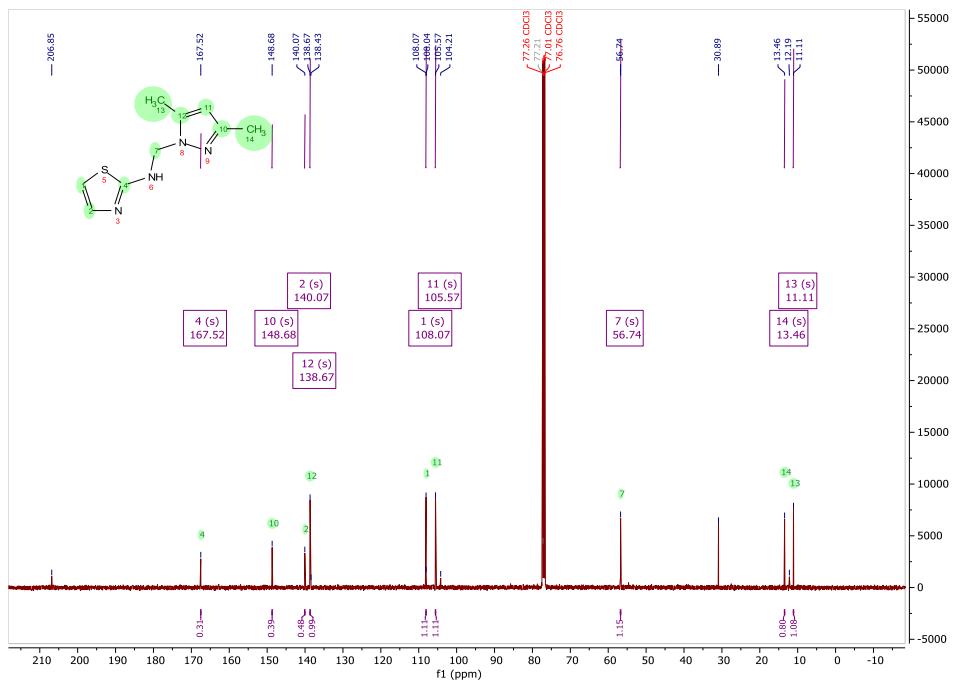


Figure 23. ^{13}C NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) thiazol-2-amine, 8

03 #446 RT: 4.99 AV: 1 AV: 5 SB: 12 439-444 448-453 NL: 1.12E4
 T: + c EI Full ms [50.000-300.000]

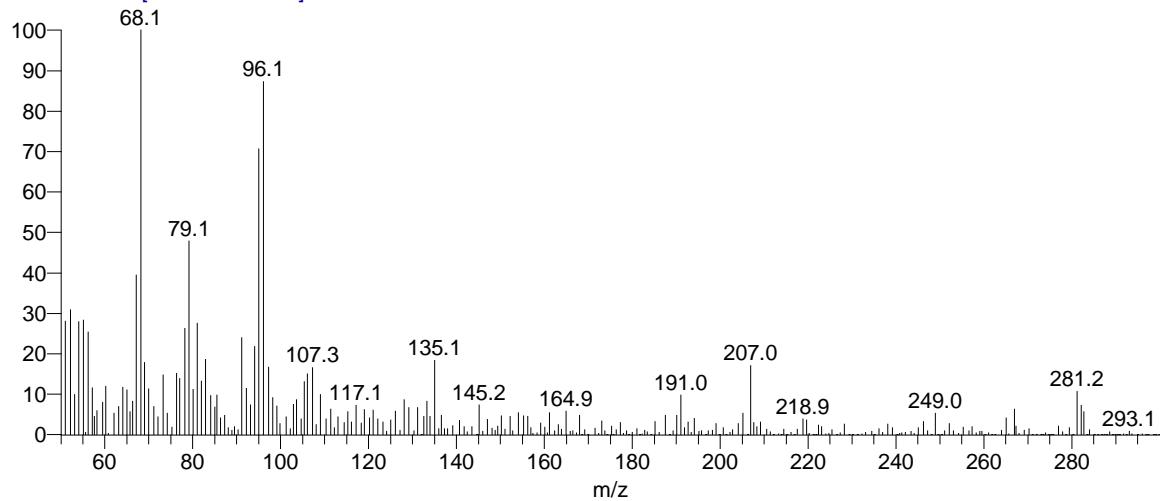


Figure 24. GC-MS spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) thiazol-2-amine, 8

N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-4-amine, 9

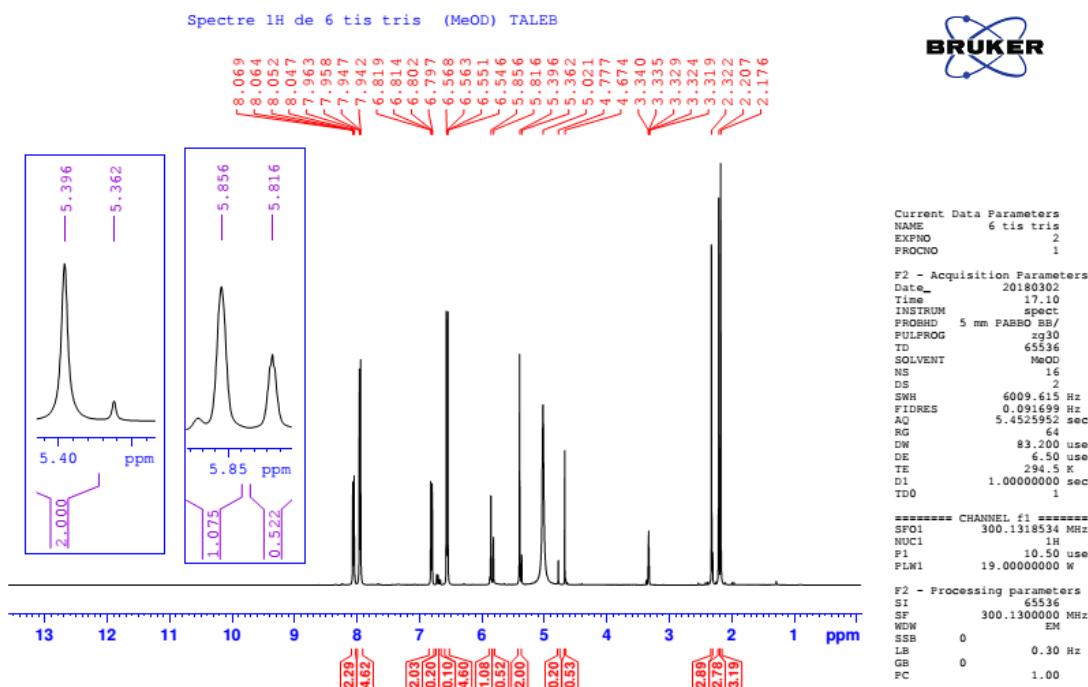


Figure 25. ^1H NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-4-amine, 9

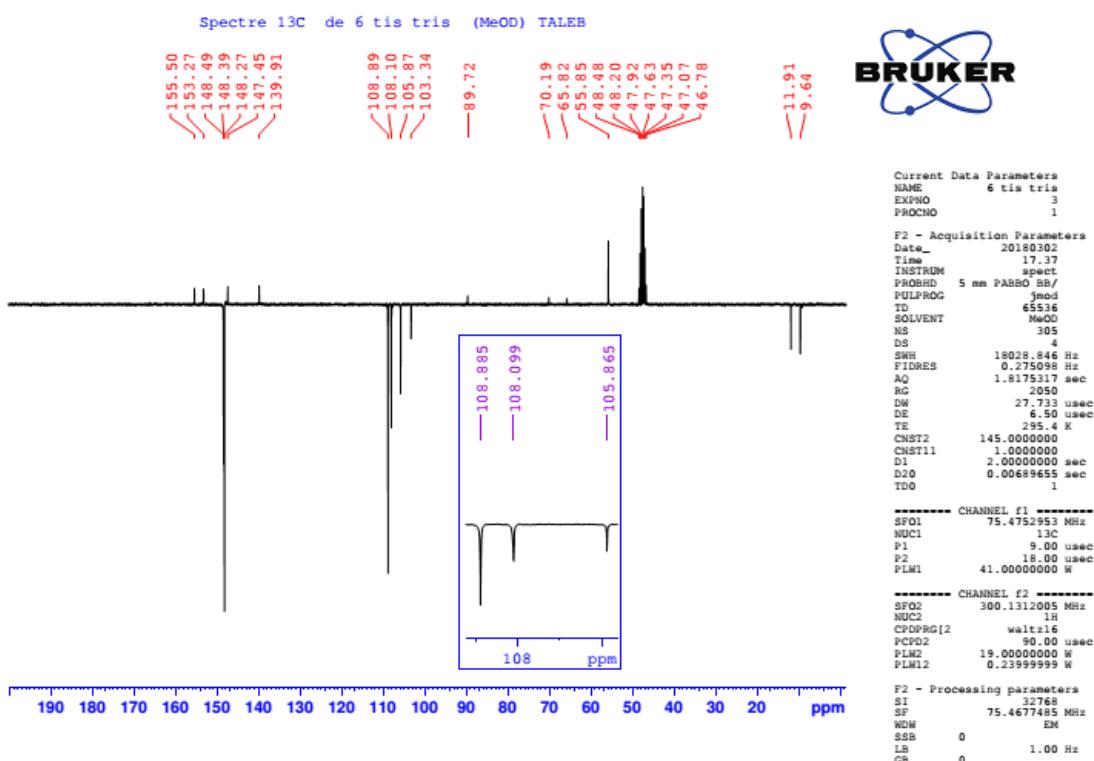


Figure 26. ^{13}C NMR spectrum of N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-4-amine, 9

10 #446 RT: 4.99 AV: 1 AV: 5 SB: 12 439-444 448-453 NL: 1.95E4
T: + c EI Full ms [50.000-300.000]

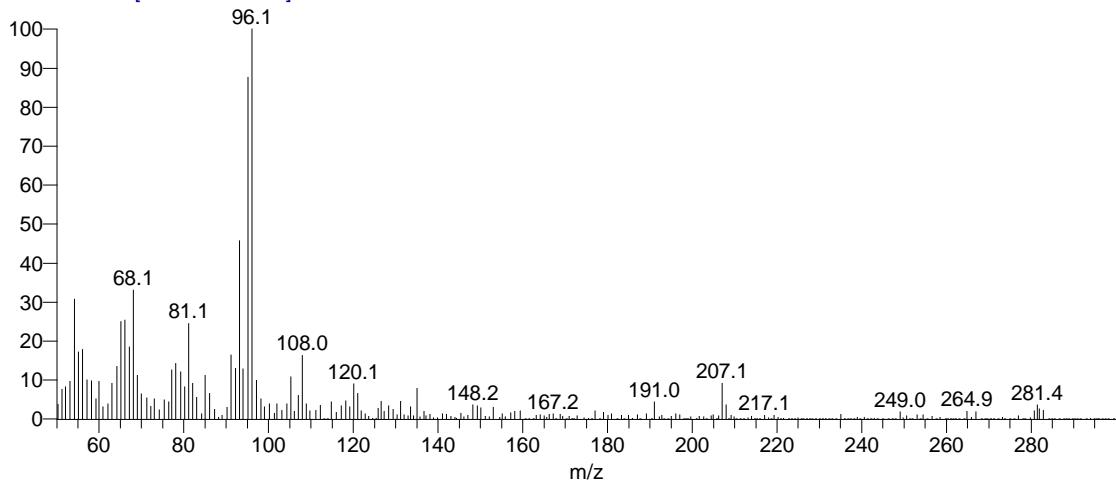


Figure 27. N-((3,5-dimethyl-1H-pyrazol-1-yl) methyl) pyridin-4-amine, 9

Ethyl 1-((1H-imidazol-1-yl) methyl)-5-methyl-1H-pyrazole-3-carboxylate, 10

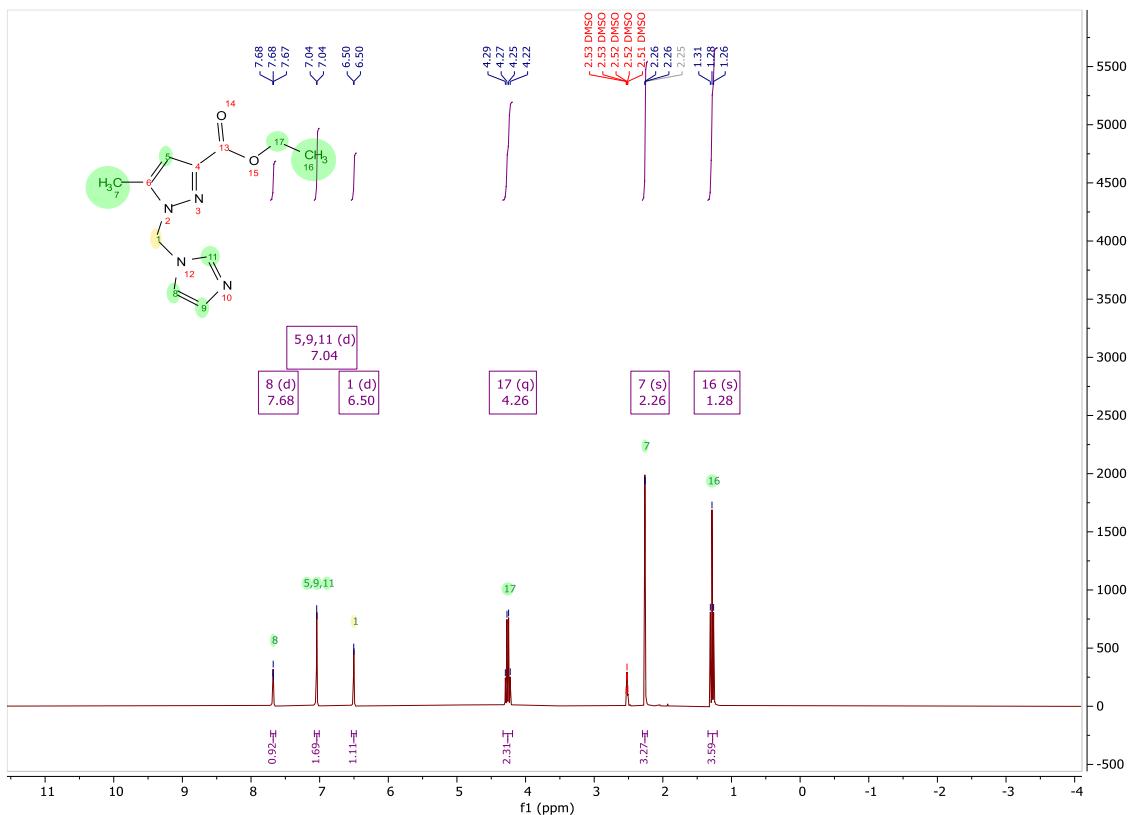


Figure 28. ^1H NMR spectrum of Ethyl 1-((1H-imidazol-1-yl) methyl)-5-methyl-1H-pyrazole-3-carboxylate, 10

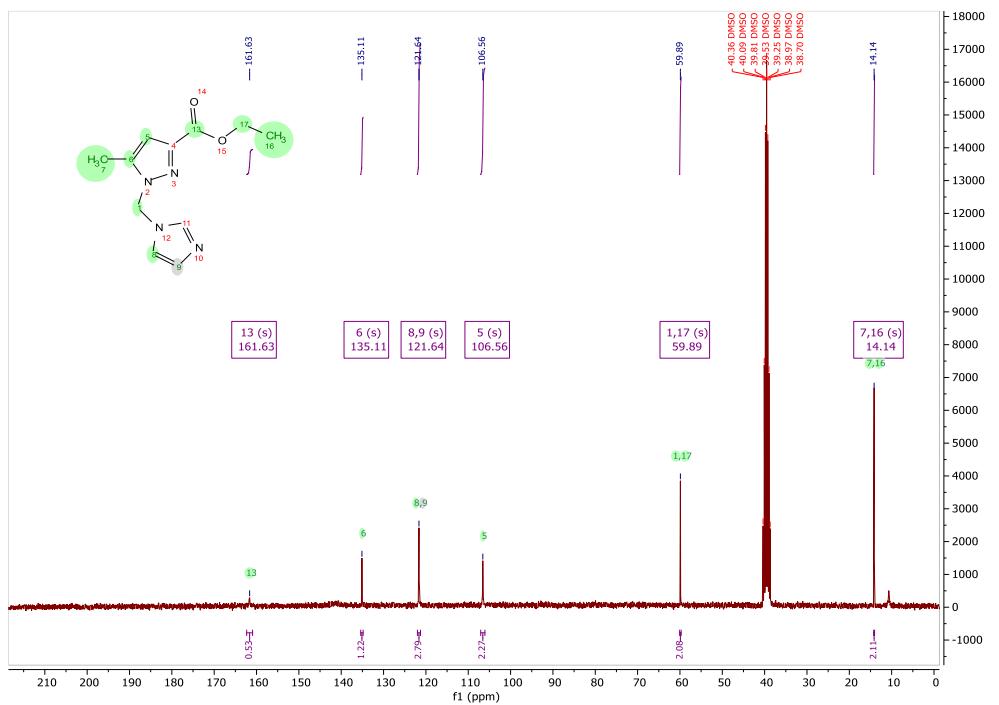


Figure 29. ^{13}C NMR spectrum of Ethyl 1-((1H-imidazol-1-yl) methyl)-5-methyl-1H-pyrazole-3-carboxylate, 10

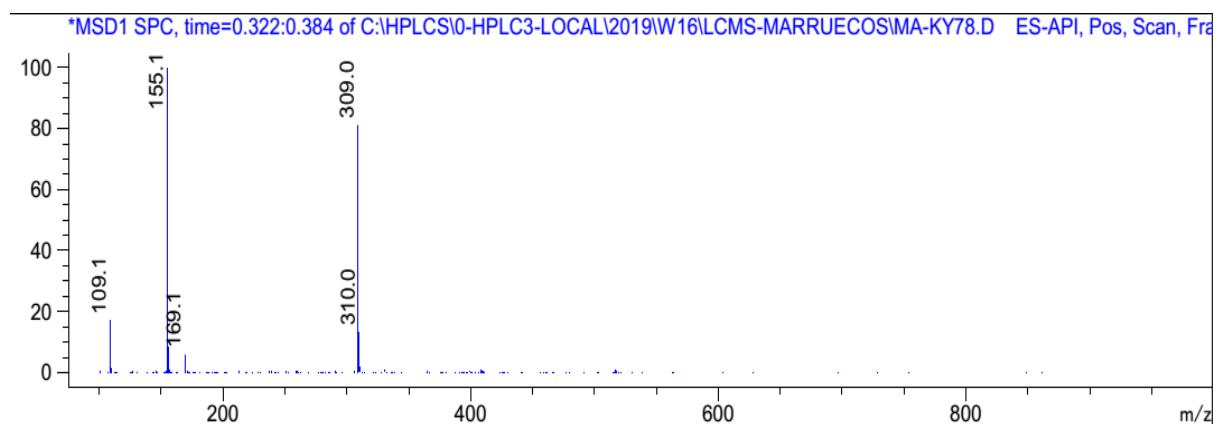


Figure 30. GC-MS spectrum of Ethyl 1-((1H-imidazol-1-yl) methyl)-5-methyl-1H-pyrazole-3-carboxylate, 10

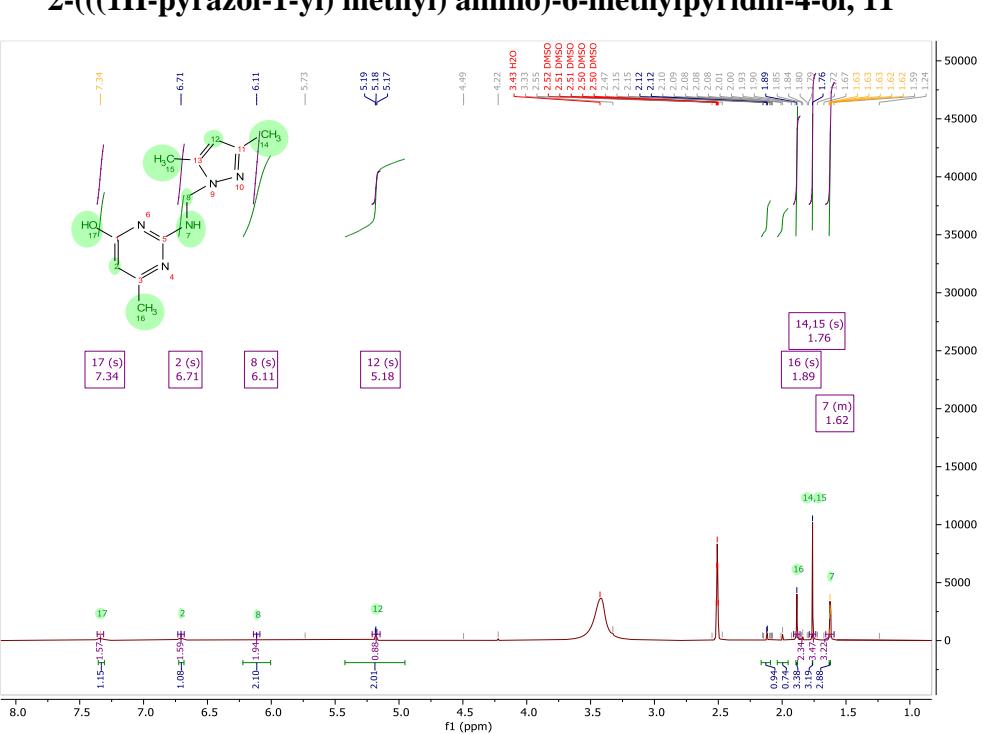


Figure 31. ^1H NMR spectrum of 2-(((1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 11

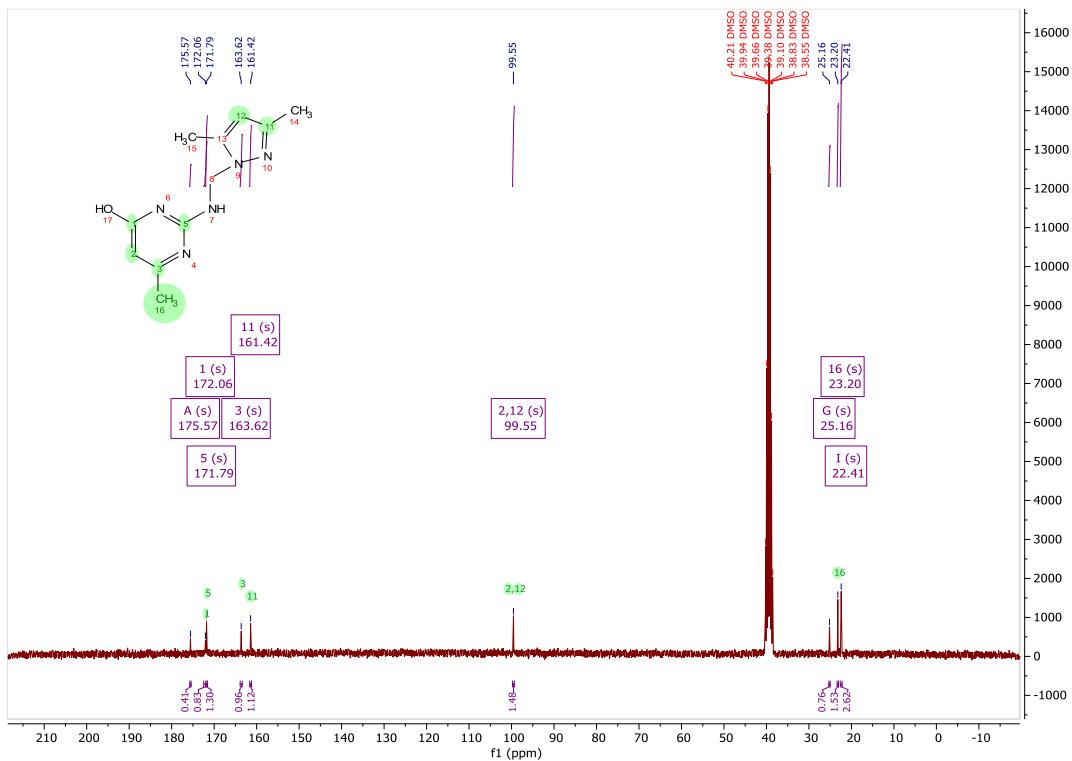


Figure 32. ^{13}C NMR spectrum of 2-(((1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 11

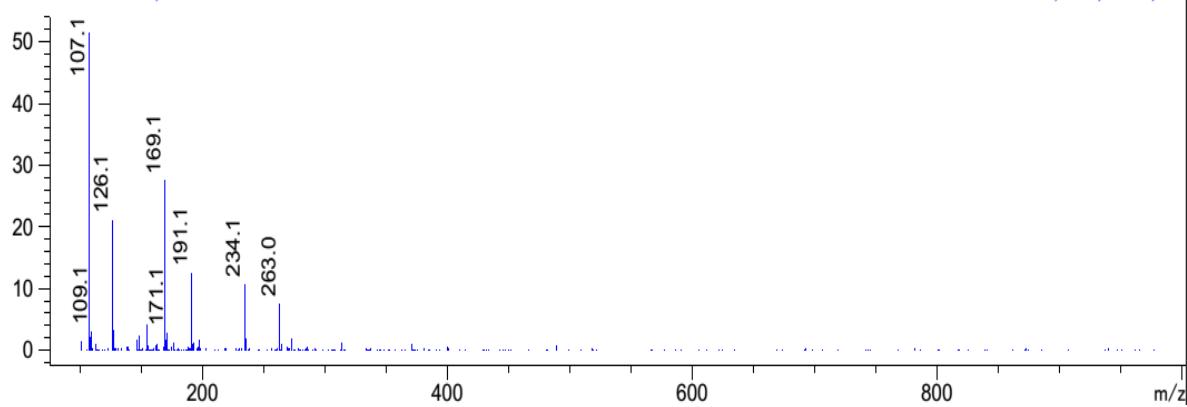


Figure 33. GC-MS spectrum of 2-(((1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 11

2-(((3,5-dimethyl-1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 12

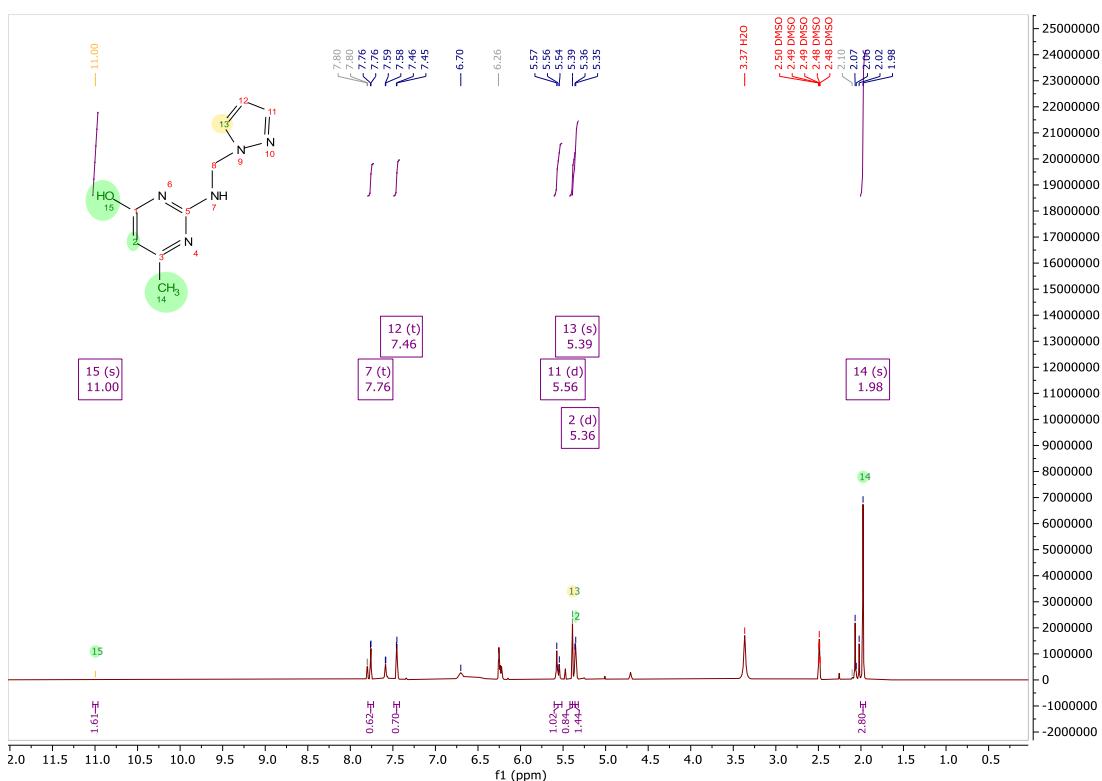


Figure 34. ¹H NMR spectrum of 2-(((3,5-dimethyl-1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 12

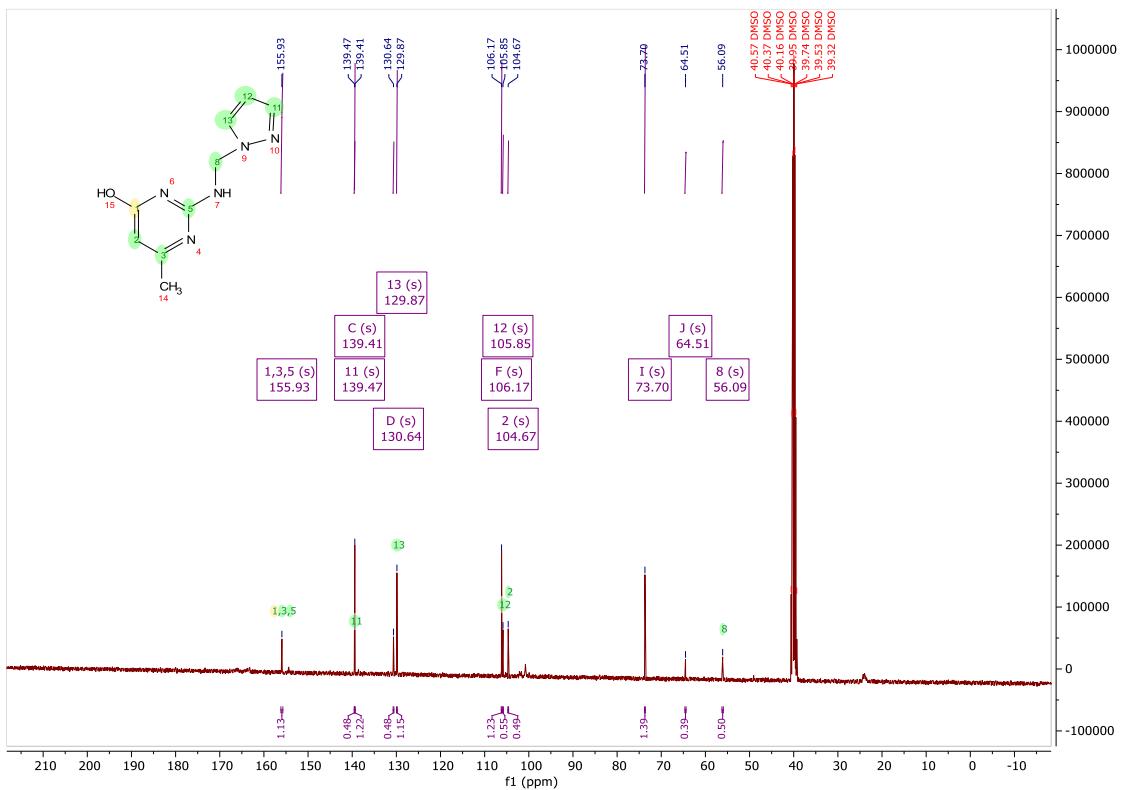


Figure 35. ^{13}C NMR spectrum of 2-(((3,5-dimethyl-1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 12

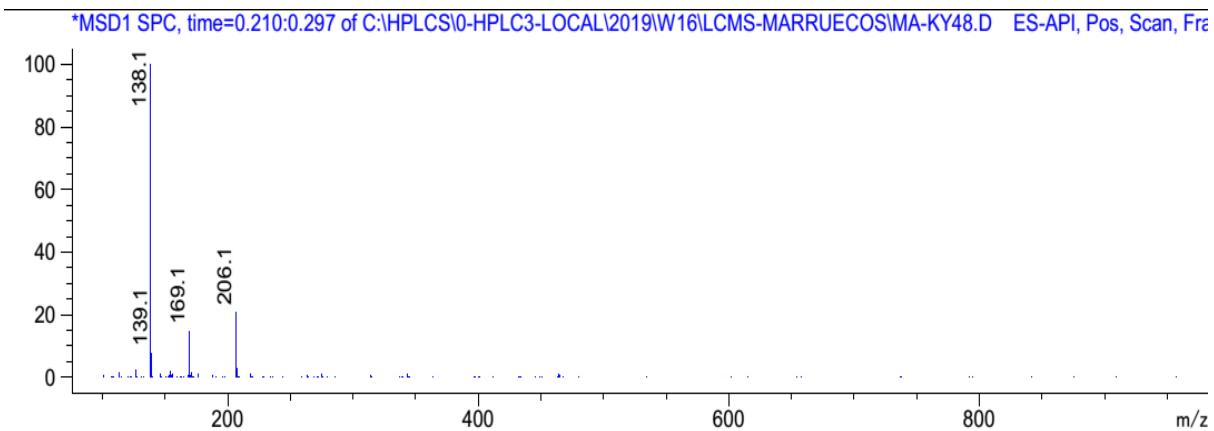


Figure 36. GC-MS spectrum of 2-(((3,5-dimethyl-1H-pyrazol-1-yl) methyl) amino)-6-methylpyridin-4-ol, 12