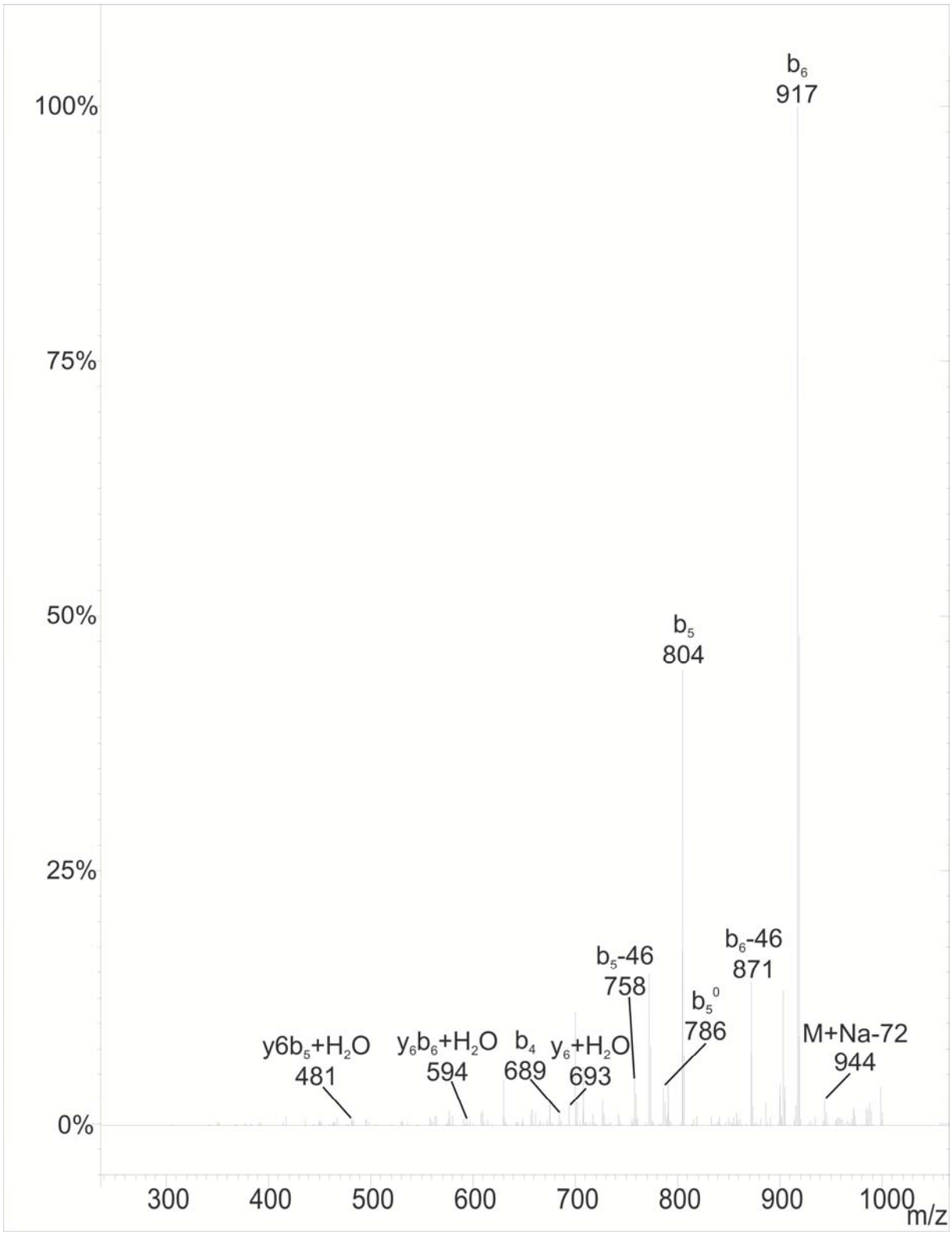

Figure S1. The MS^2 spectrum of **1** (C13-[Val7]) eluted at Rt = 78.08 min (*m*/*z* = 1016).

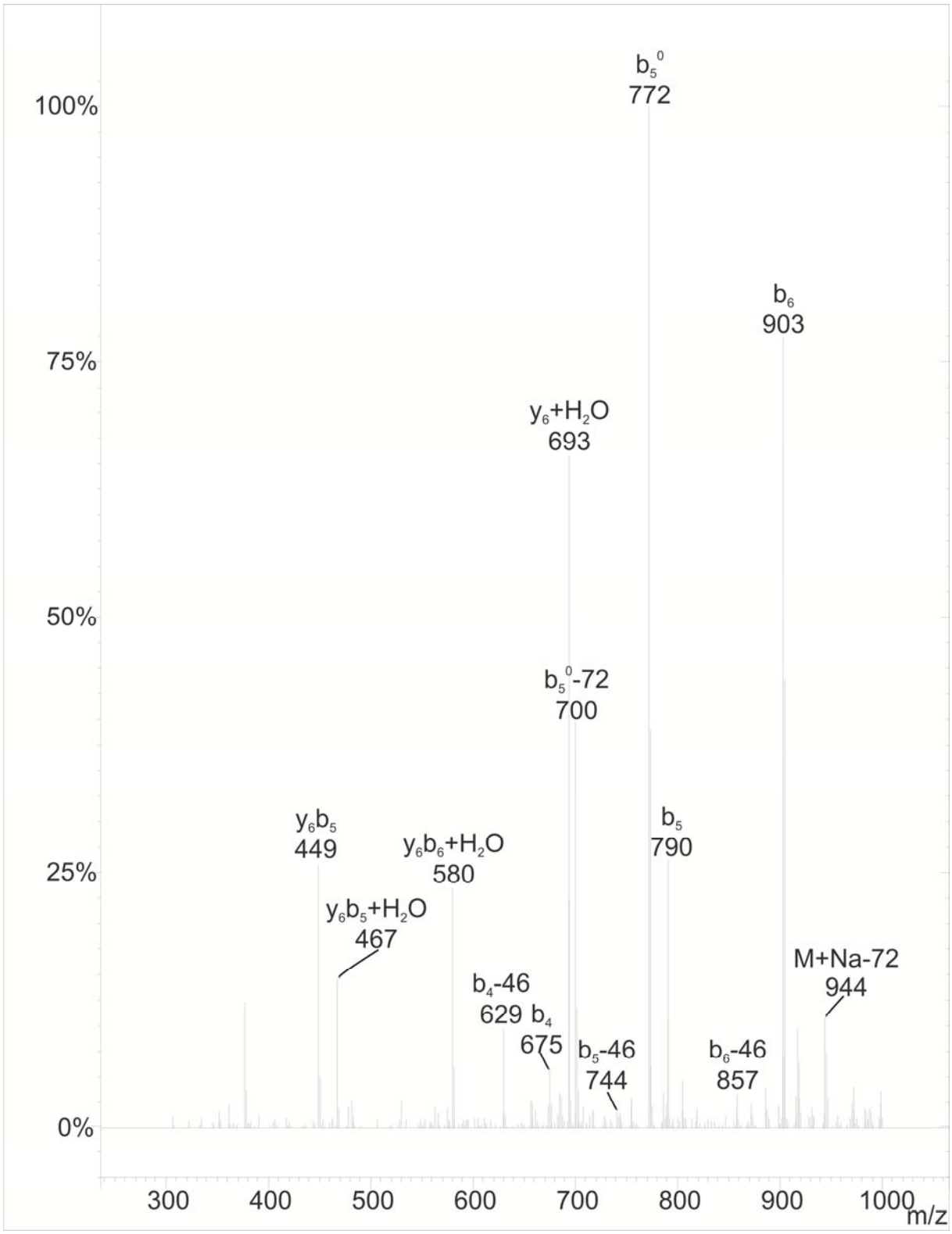

Figure S2. The MS^2 spectrum of **2** (C13-[Val2]) eluted at Rt = 78.74 min (*m*/*z* = 1016).

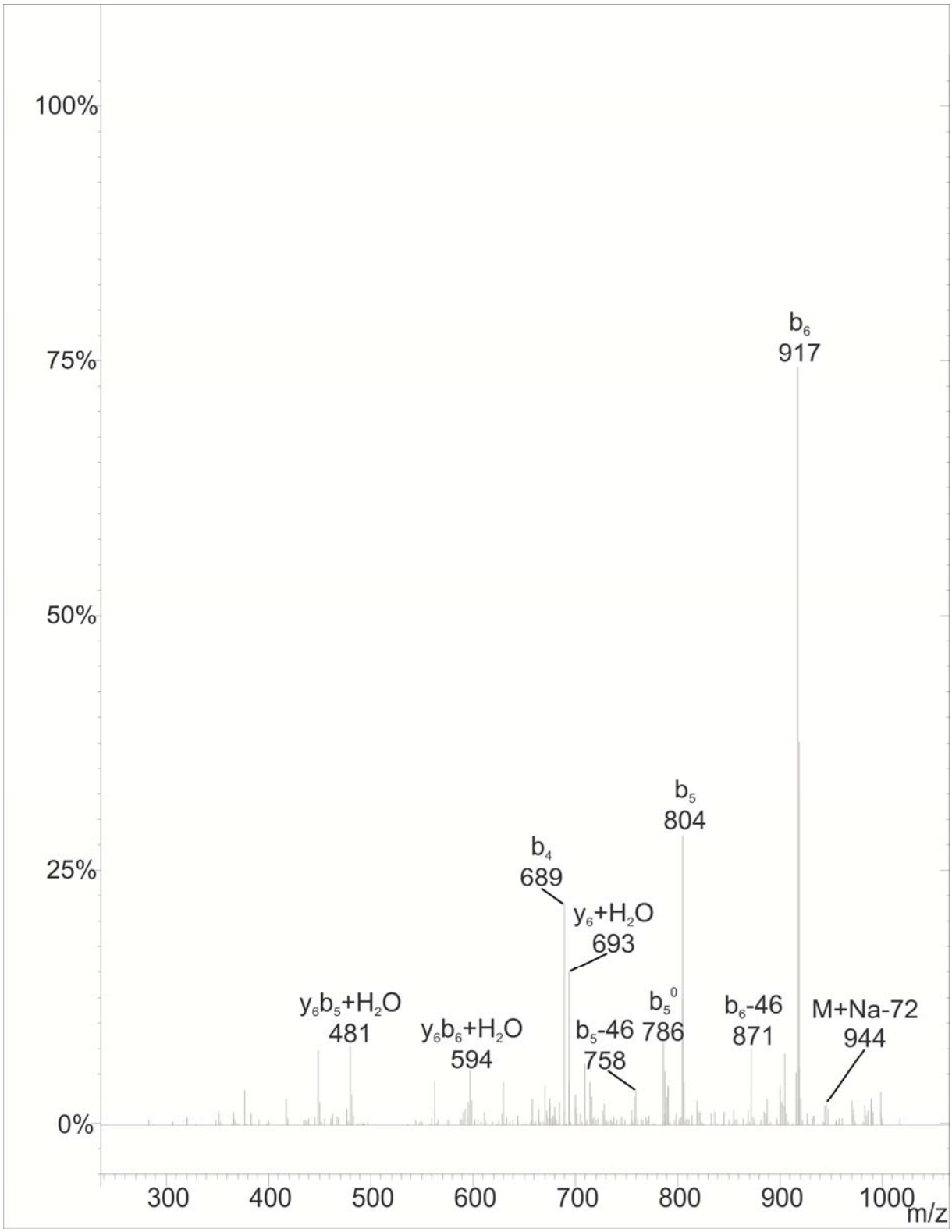

Figure S3. The MS^2 spectrum of **3** (C13-[Val7]) eluted at Rt = 79.23 min (*m*/*z* = 1016).

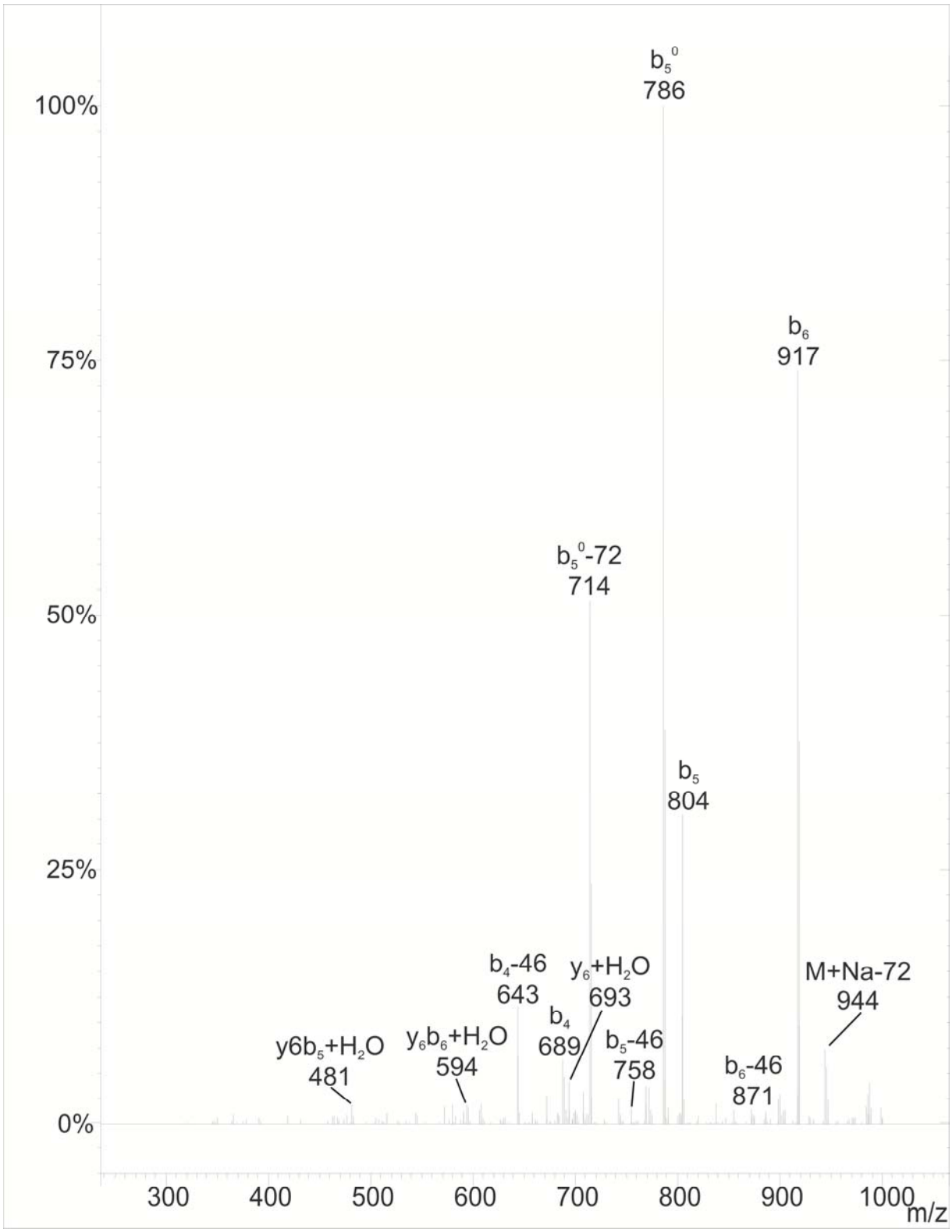

Figure S4. The MS² spectrum of **4** (C13-[Val7]) eluted at Rt = 79.80 min (*m*/*z* = 1016).

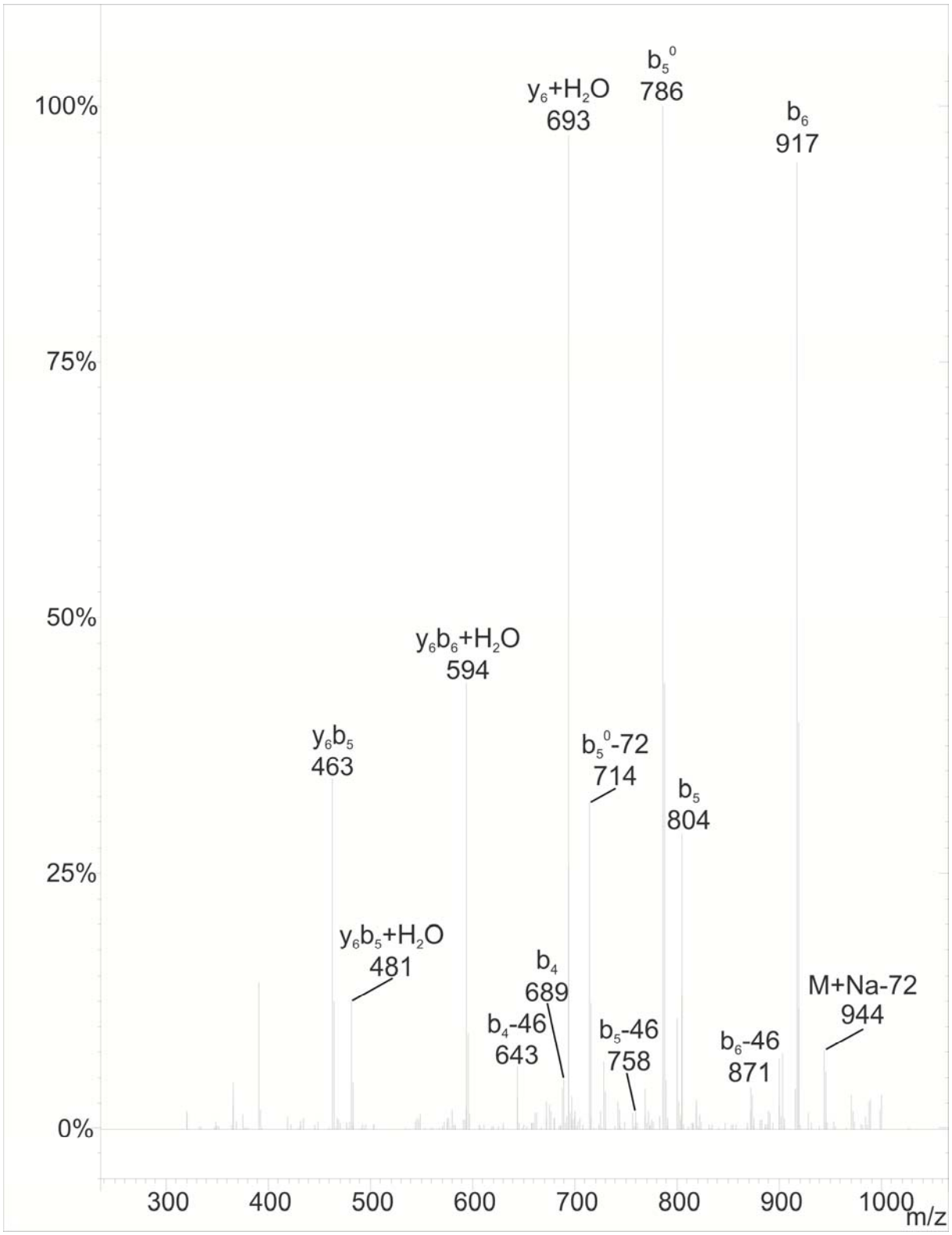

Figure S5. The MS^2 spectrum of **5** (C13-[Val7]) eluted at Rt = 80.63 min (*m*/*z* = 1016).

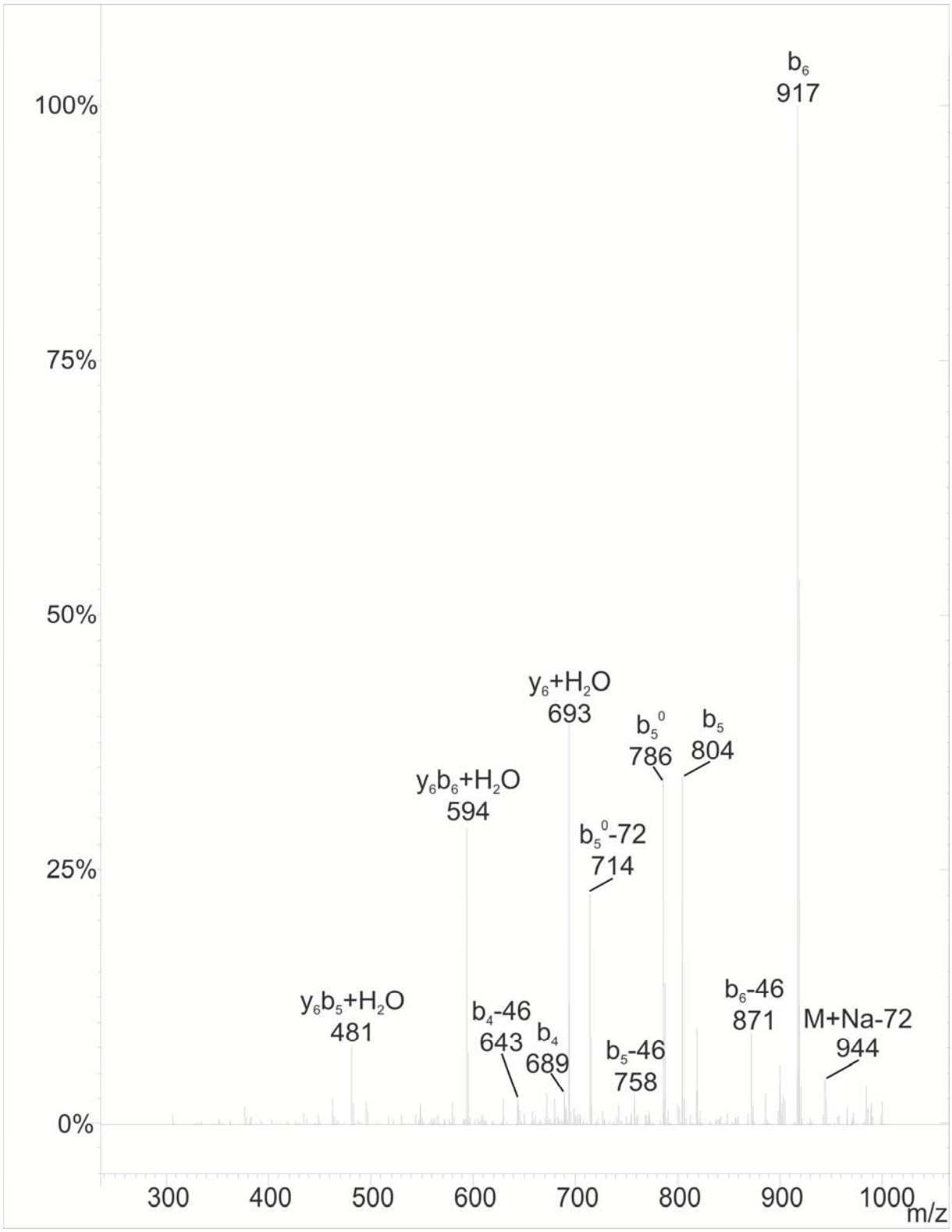

Figure S6. The MS^2 spectrum of **6** (C13-[Val7]) eluted at Rt = 81.29 min (*m*/*z* = 1016).

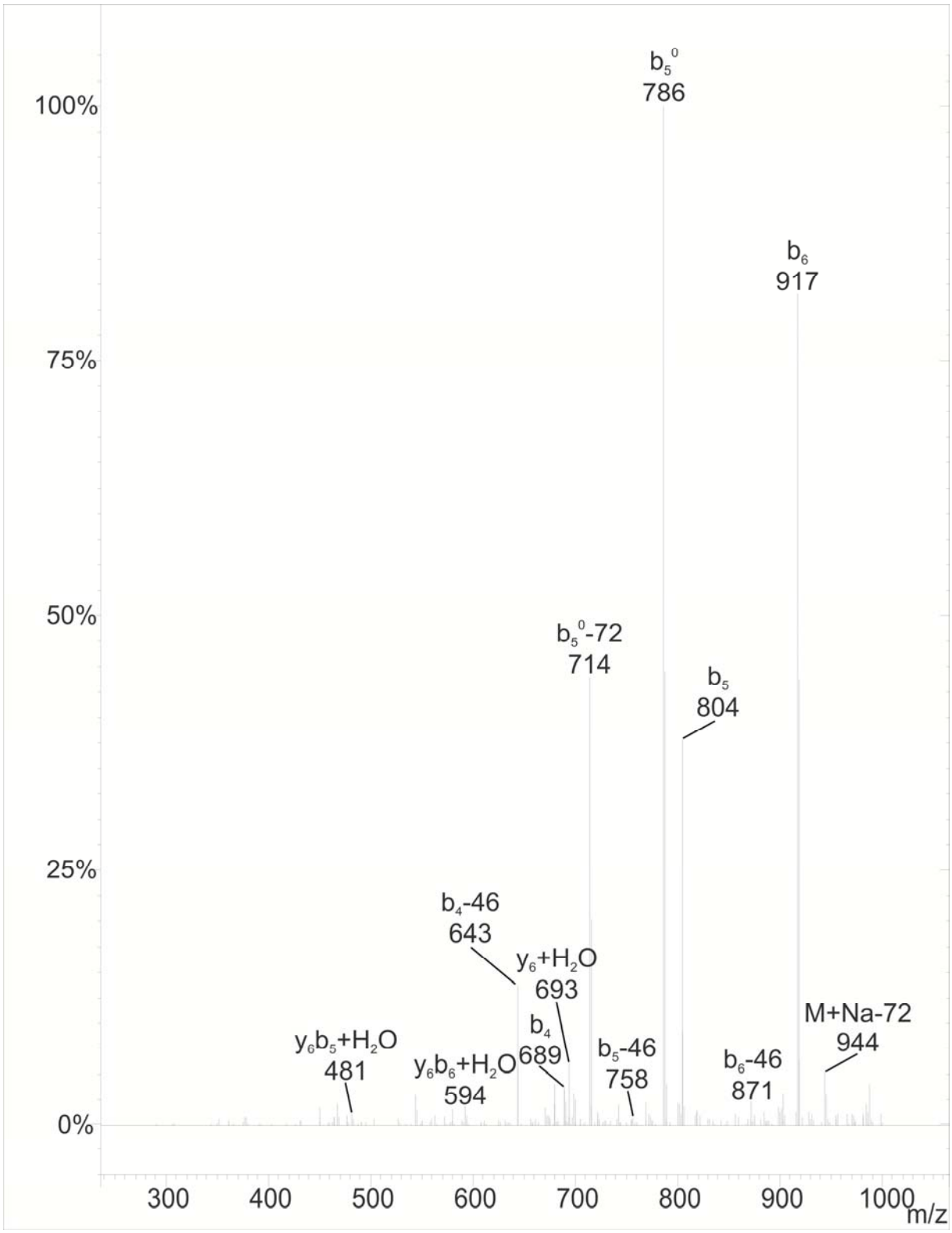

Figure S7. The MS^2 spectrum of **7** (C13-[Val7]) eluted at Rt = 81.73 min (*m*/*z* = 1016).

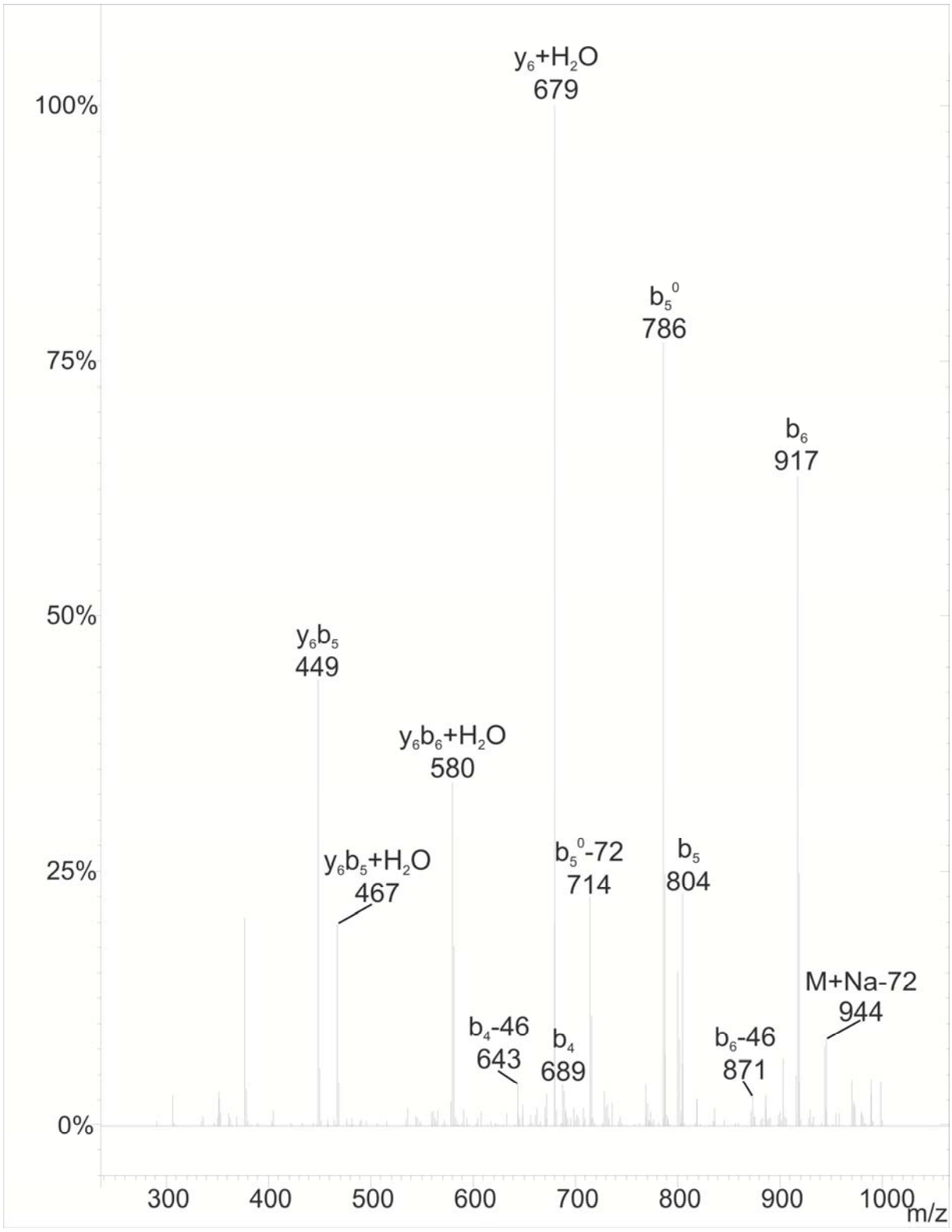

Figure S8. The MS^2 spectrum of **8** (C14-[Val2,7]) eluted at Rt = 82.99 min (*m*/*z* = 1016).

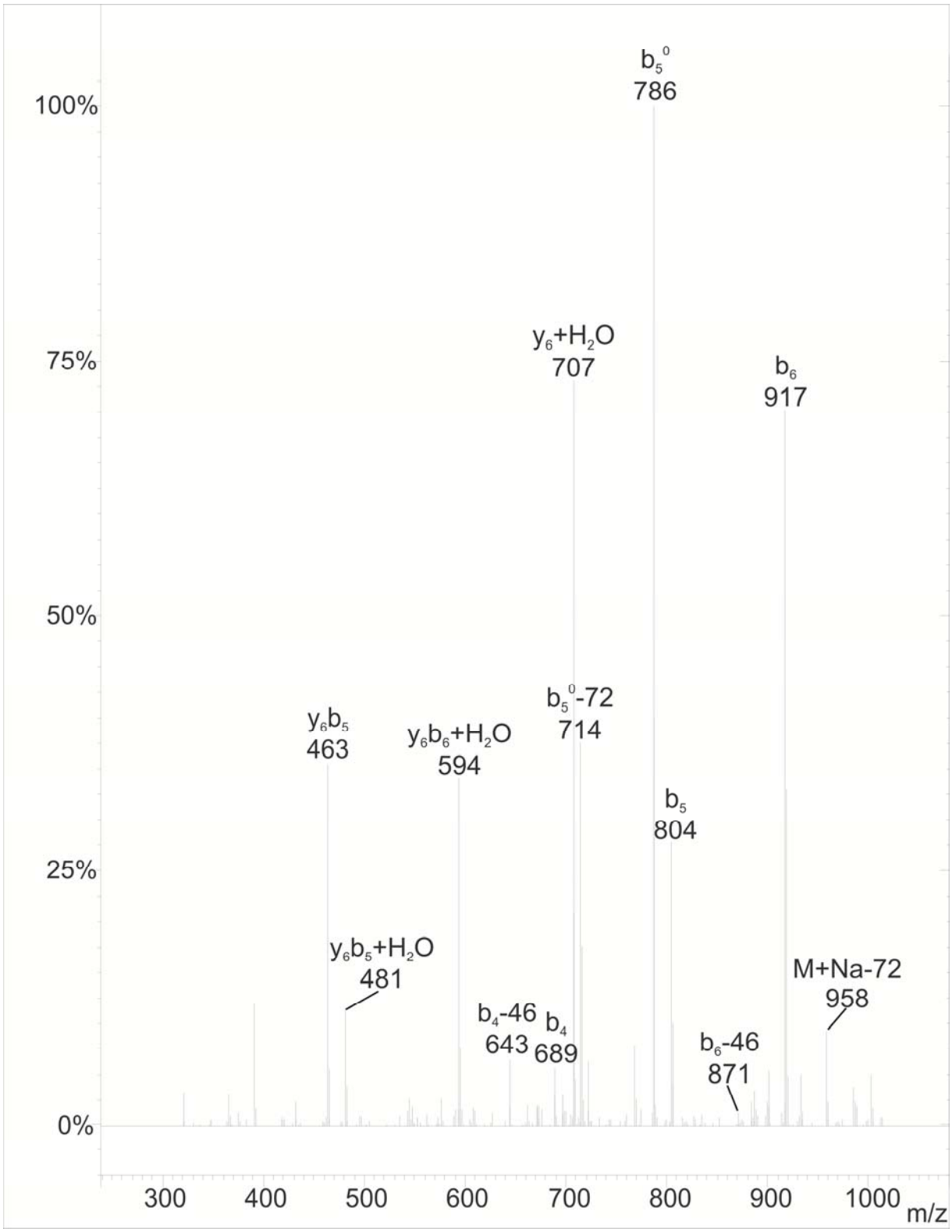

Figure S9. The MS^2 spectrum of **9** (C13-[Sur]) eluted at Rt = 79.37 min (*m*/*z* = 1030).

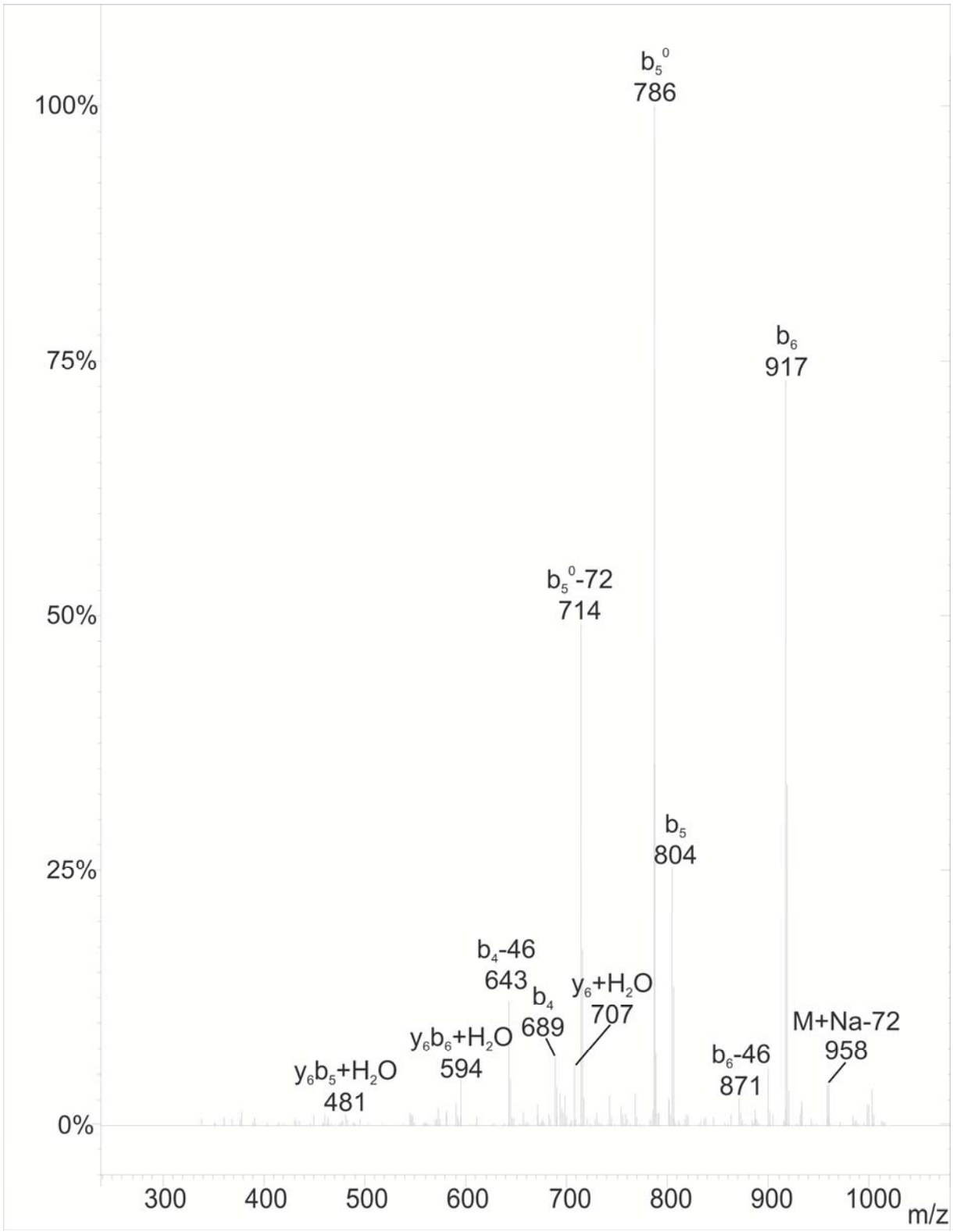

Figure S10. The MS^2 spectrum of **10** (C13-[Sur]) eluted at Rt = 81.03 min (*m*/*z* = 1030).

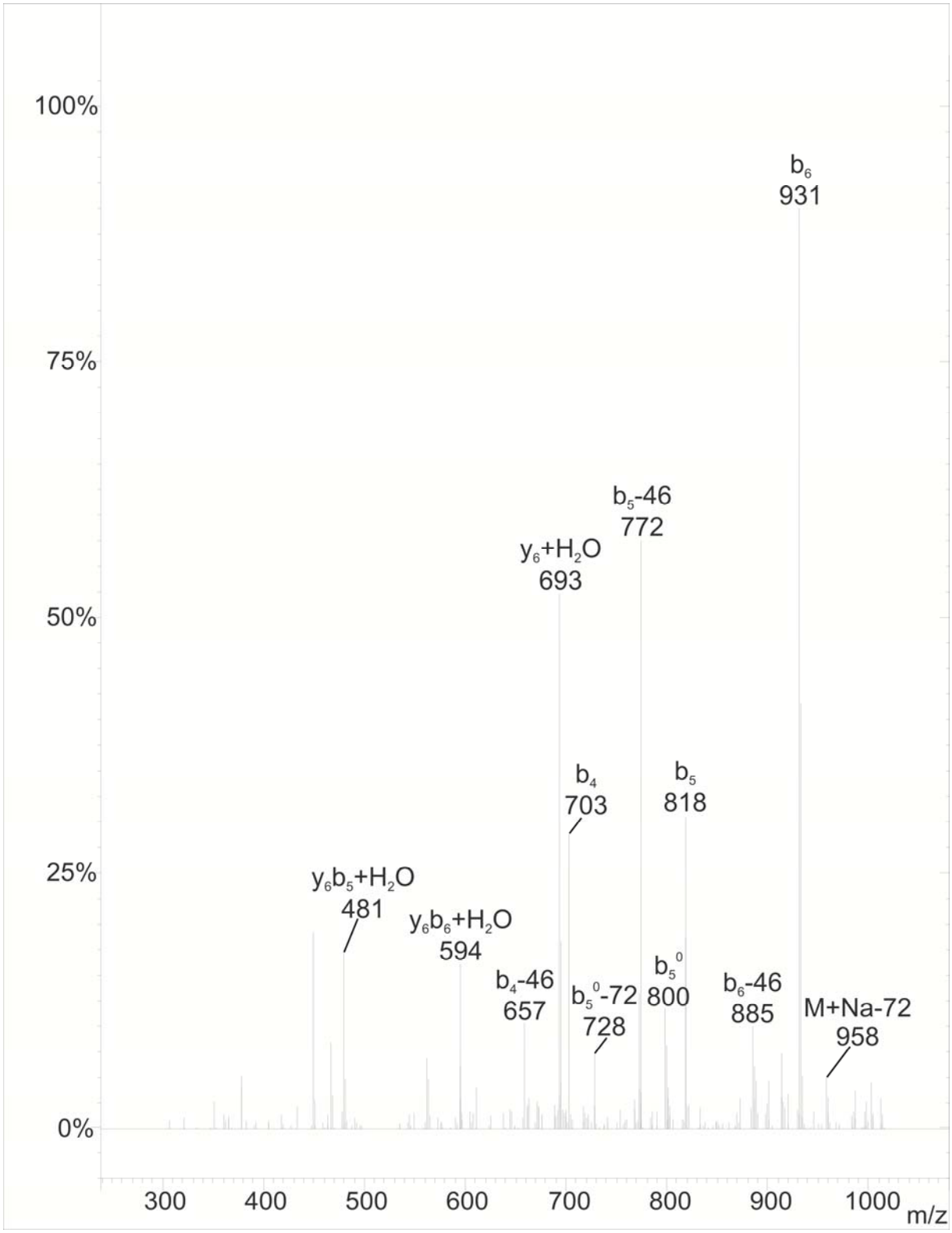

Figure S11. The MS^2 spectrum of **11** (C14-[Val7]) eluted at Rt = 82.03 min (*m*/*z* = 1030).

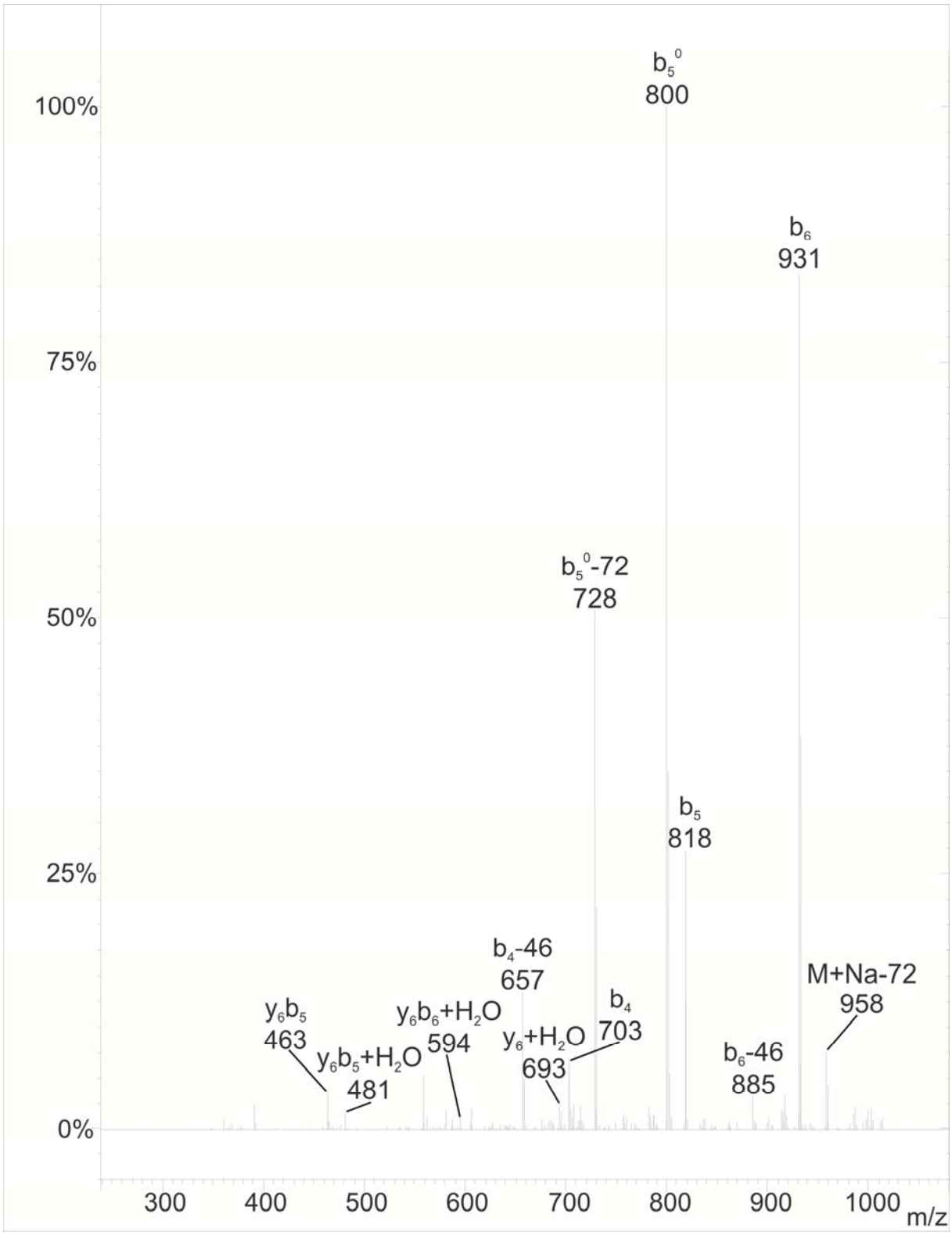

Figure S12. The MS^2 spectrum of **12** (C14-[Val7]) eluted at Rt = 82.66 min (*m*/*z* = 1030).

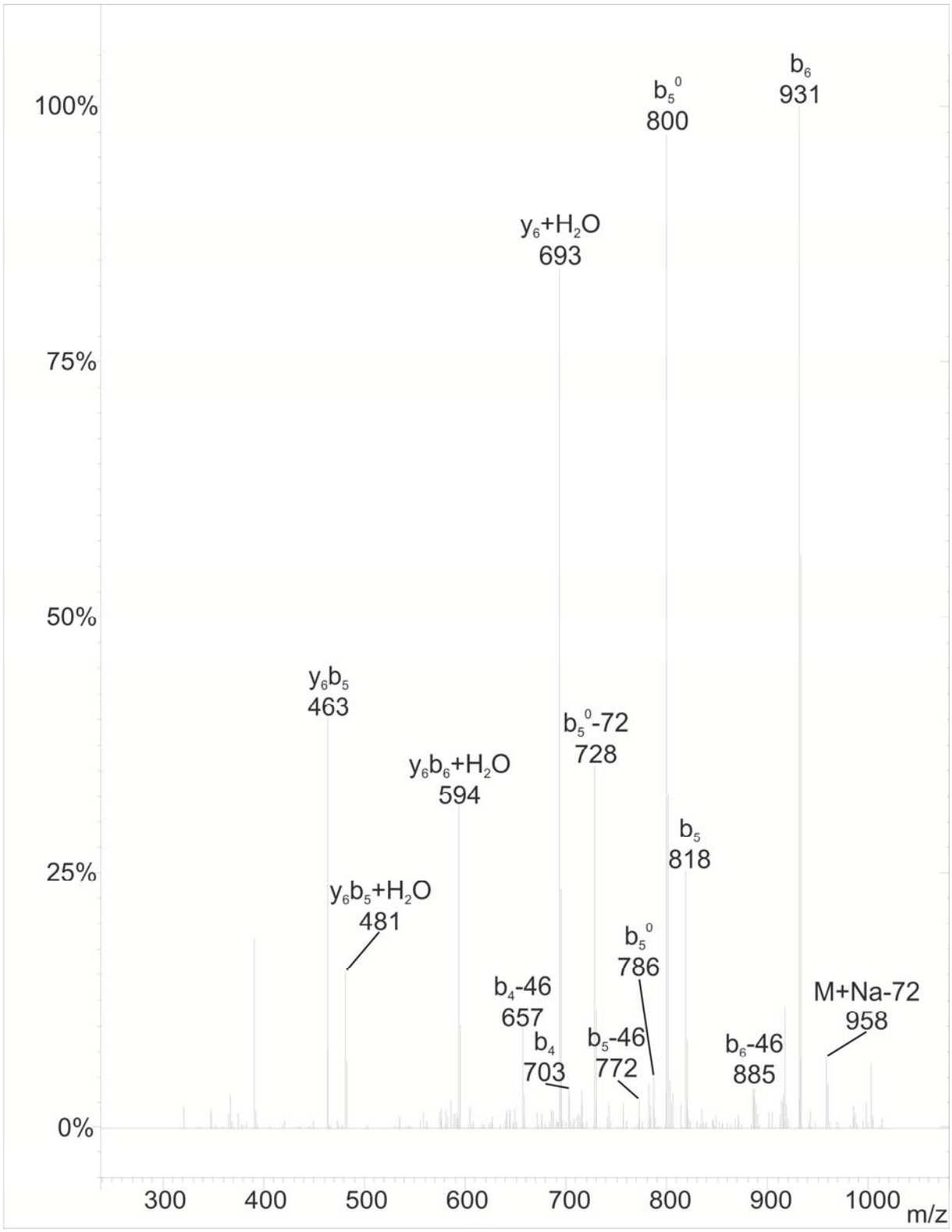

Figure S13. The MS^2 spectrum of **13** (C14-[Val7]) eluted at Rt = 83.66 min (*m*/*z* = 1030).

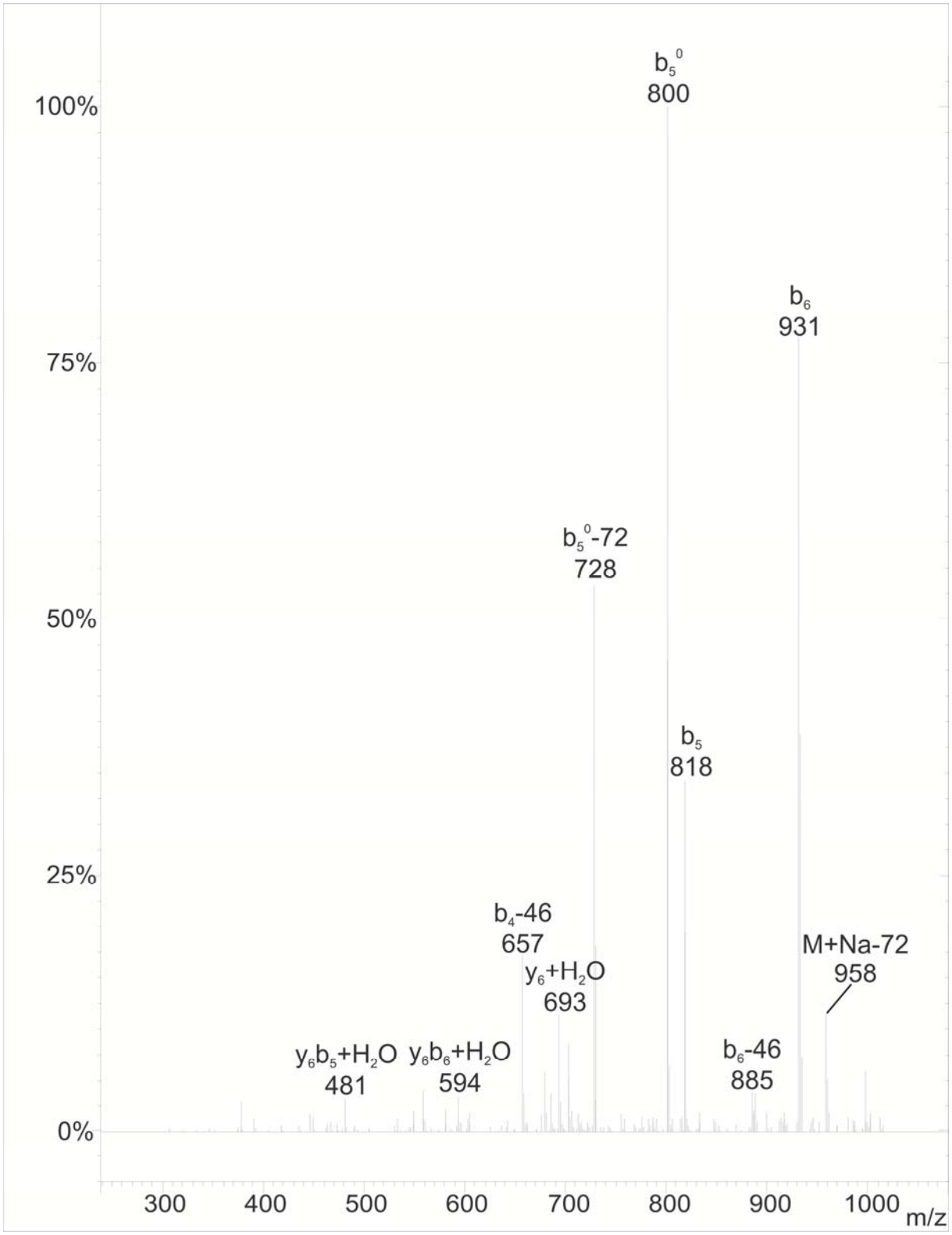

Figure S14. The MS^2 spectrum of **14** (C14-[Val7]) eluted at Rt = 84.57 min (*m*/*z* = 1030).

Figure S15. The MS^2 spectrum of **15** (C14-[Sur]) eluted at Rt = 81.55 min (*m*/*z* = 1044).

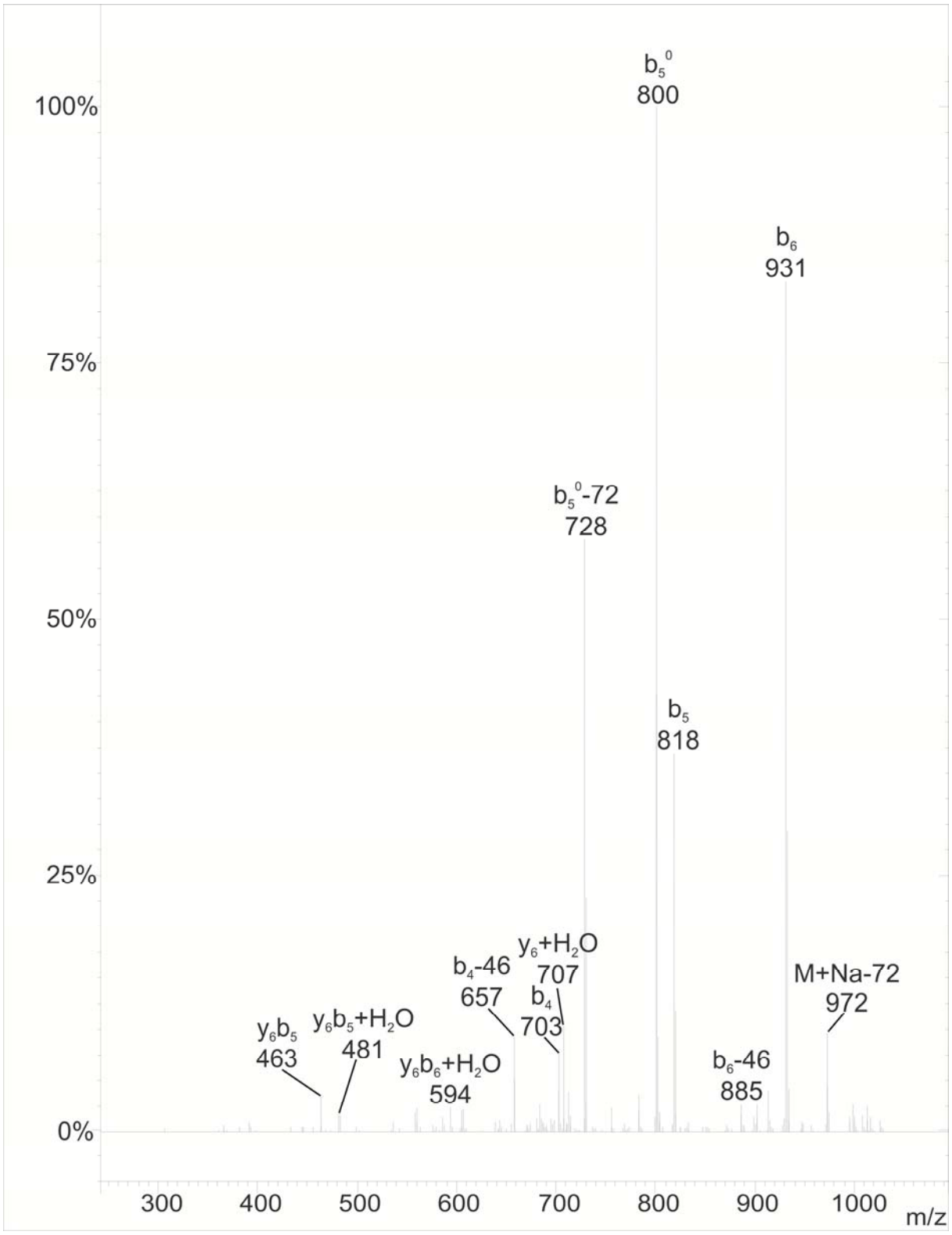

Figure S16. The MS^2 spectrum of **16** (C14-[Sur]) eluted at Rt = 82.13 min (*m*/*z* = 1044).

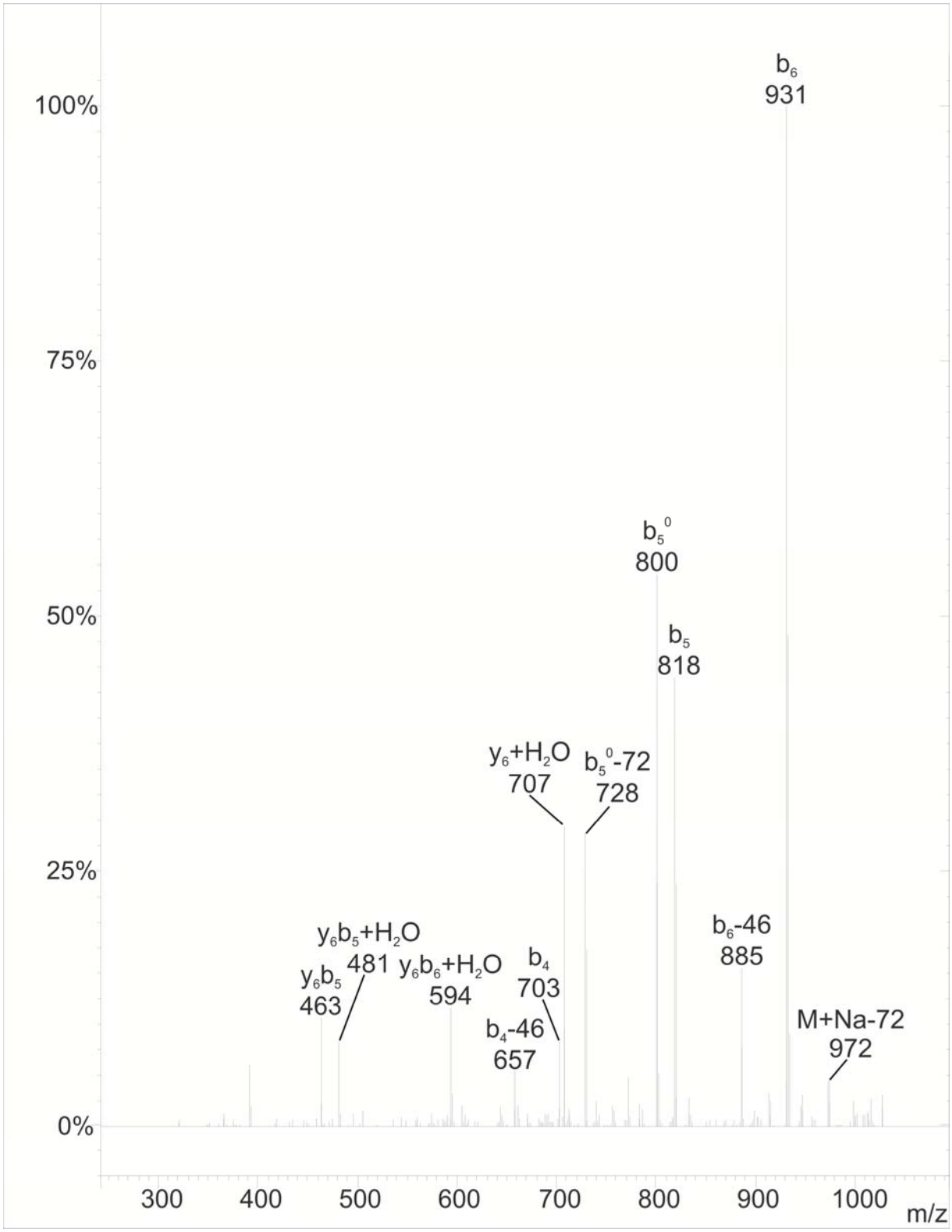

Figure S17. The MS^2 spectrum of **17** (C14-[Sur]) eluted at Rt = 83.14 min (*m*/*z* = 1044).

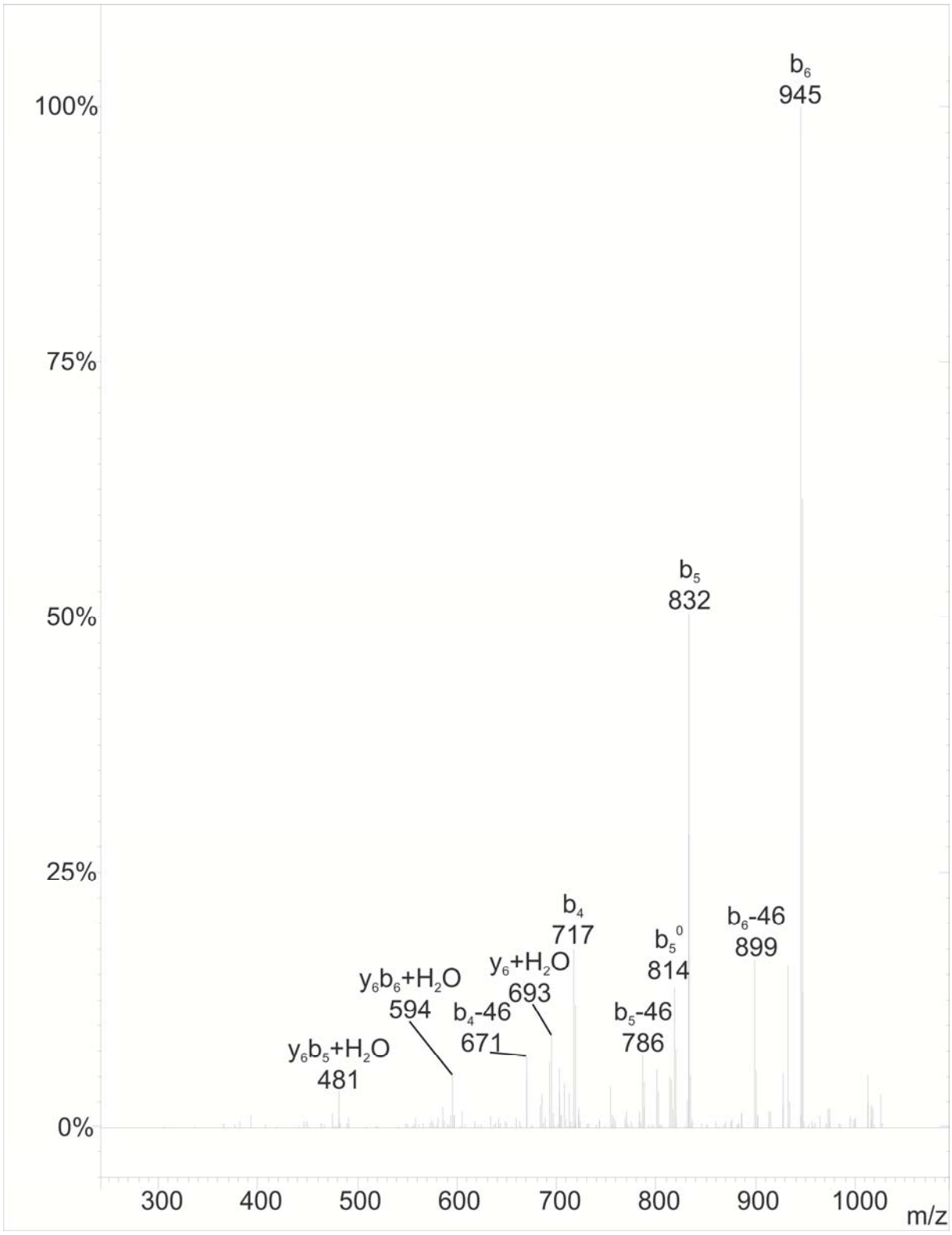

Figure S18. The MS^2 spectrum of **18** (C15-[Val7]) eluted at Rt = 84.08 min (*m*/*z* = 1044).

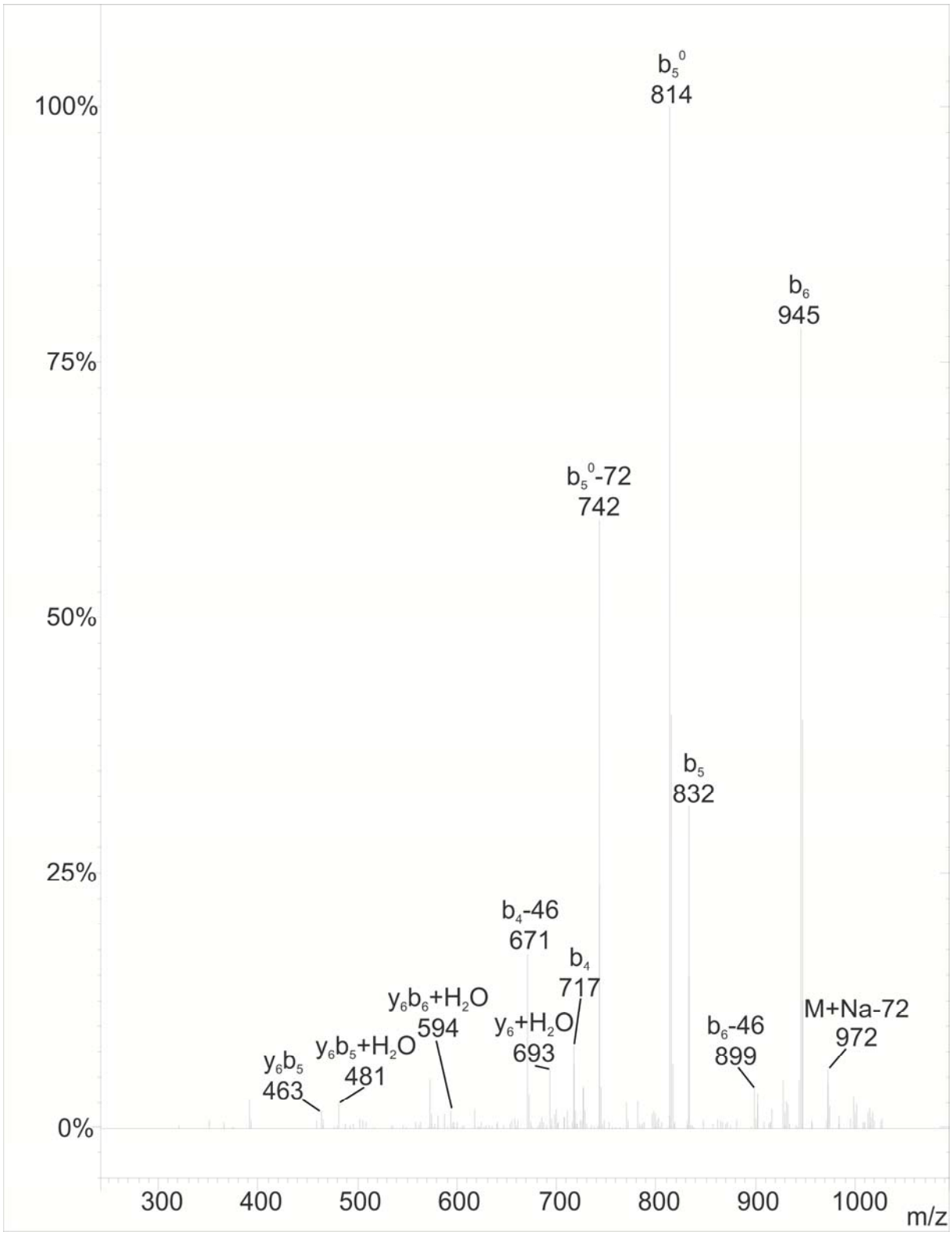

Figure S19. The MS^2 spectrum of **19** (C15-[Val7]) eluted at Rt = 85.44 min (*m*/*z* = 1044).

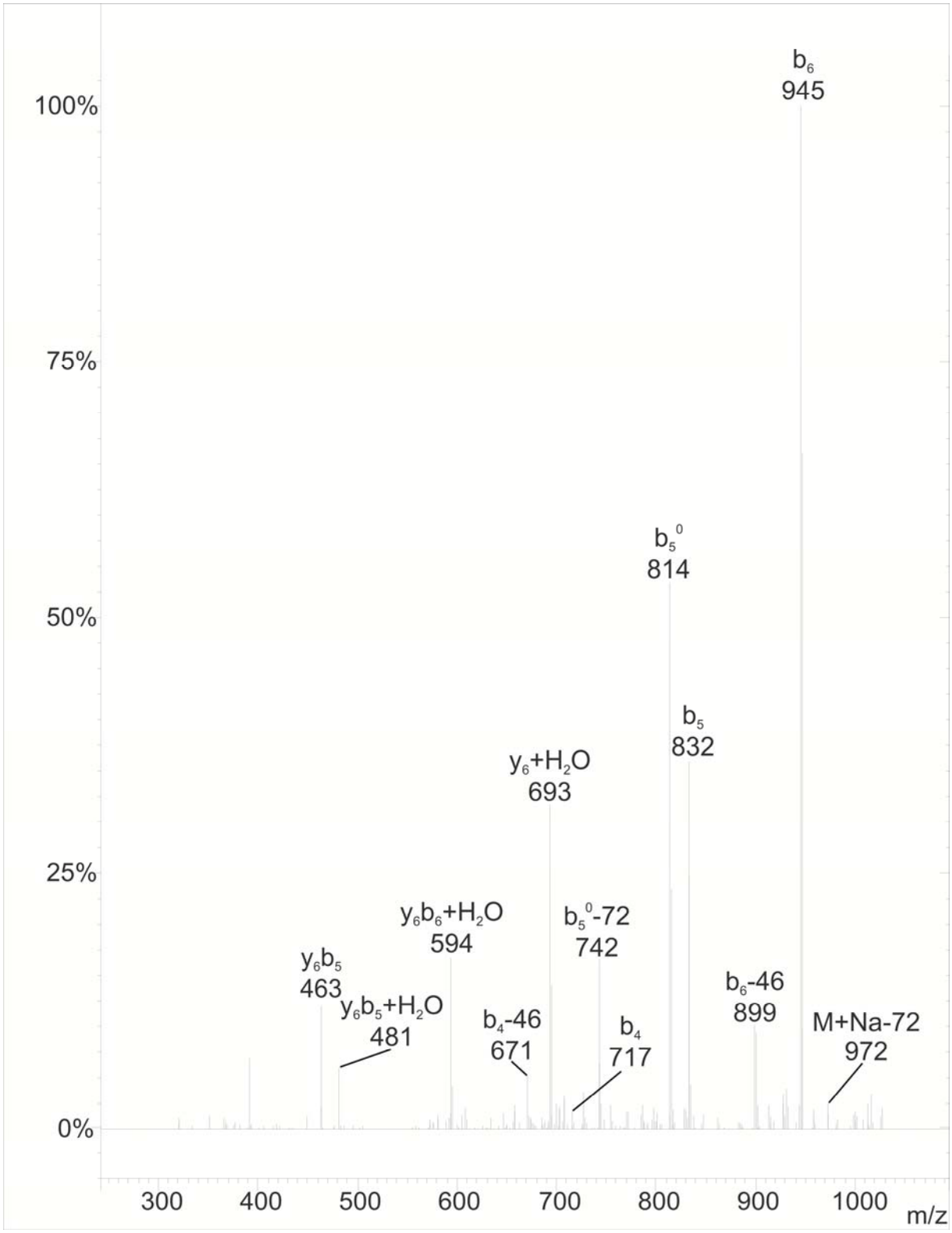

Figure S20. The MS² spectrum of **20** (C15-[Val7]) eluted at Rt = 86.32 min (*m*/*z* = 1044).

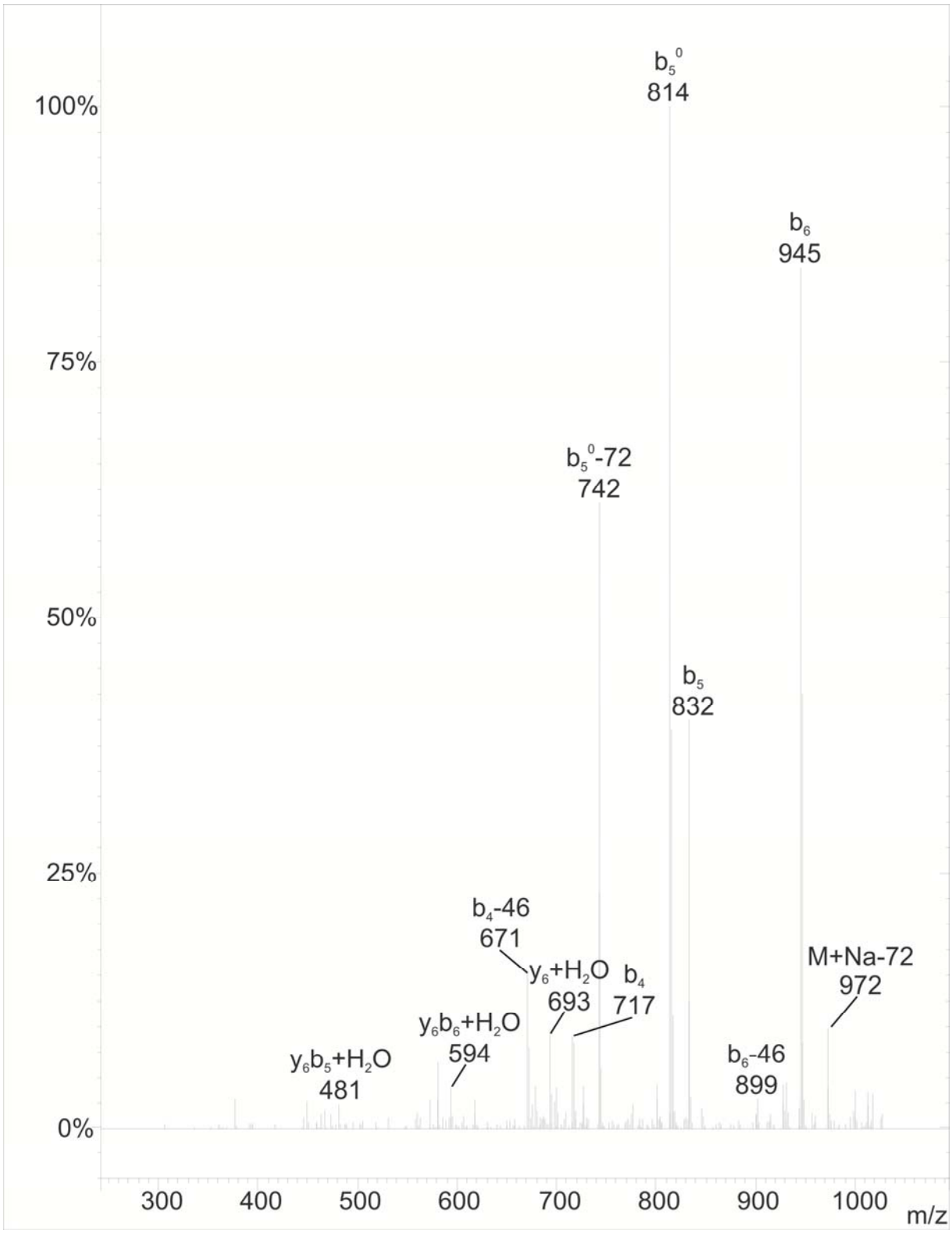

Figure S21. The MS² spectrum of **21** (C15-[Val7]) eluted at Rt = 87.26 min (*m*/*z* = 1044).

Figure S22. The MS^2 spectrum of **22** (C15-[Sur]) eluted at Rt = 84.18 min (*m*/*z* = 1058).

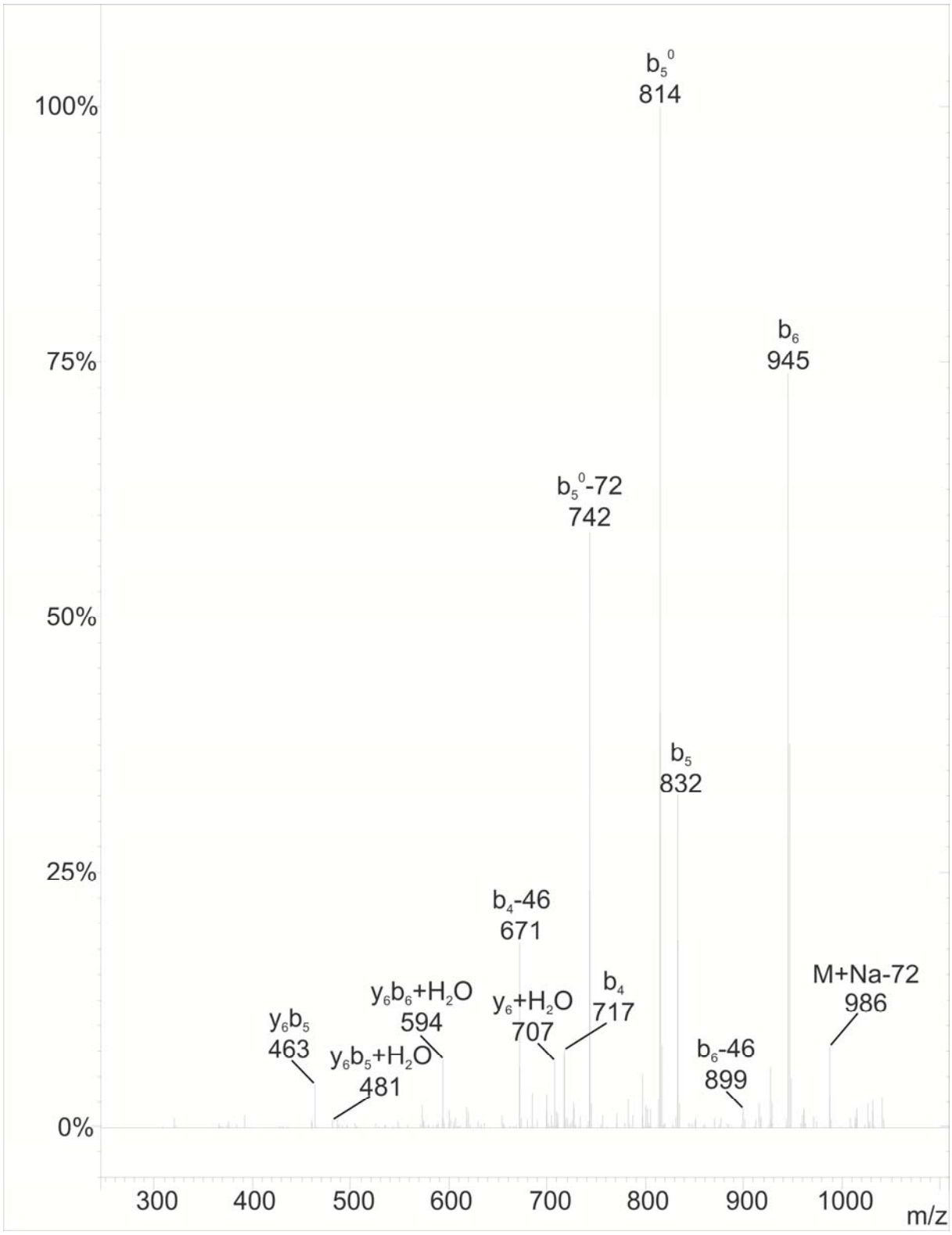

Figure S23. The MS^2 spectrum of **23** (C15-[Sur]) eluted at Rt = 84.70 min (*m*/*z* = 1058).

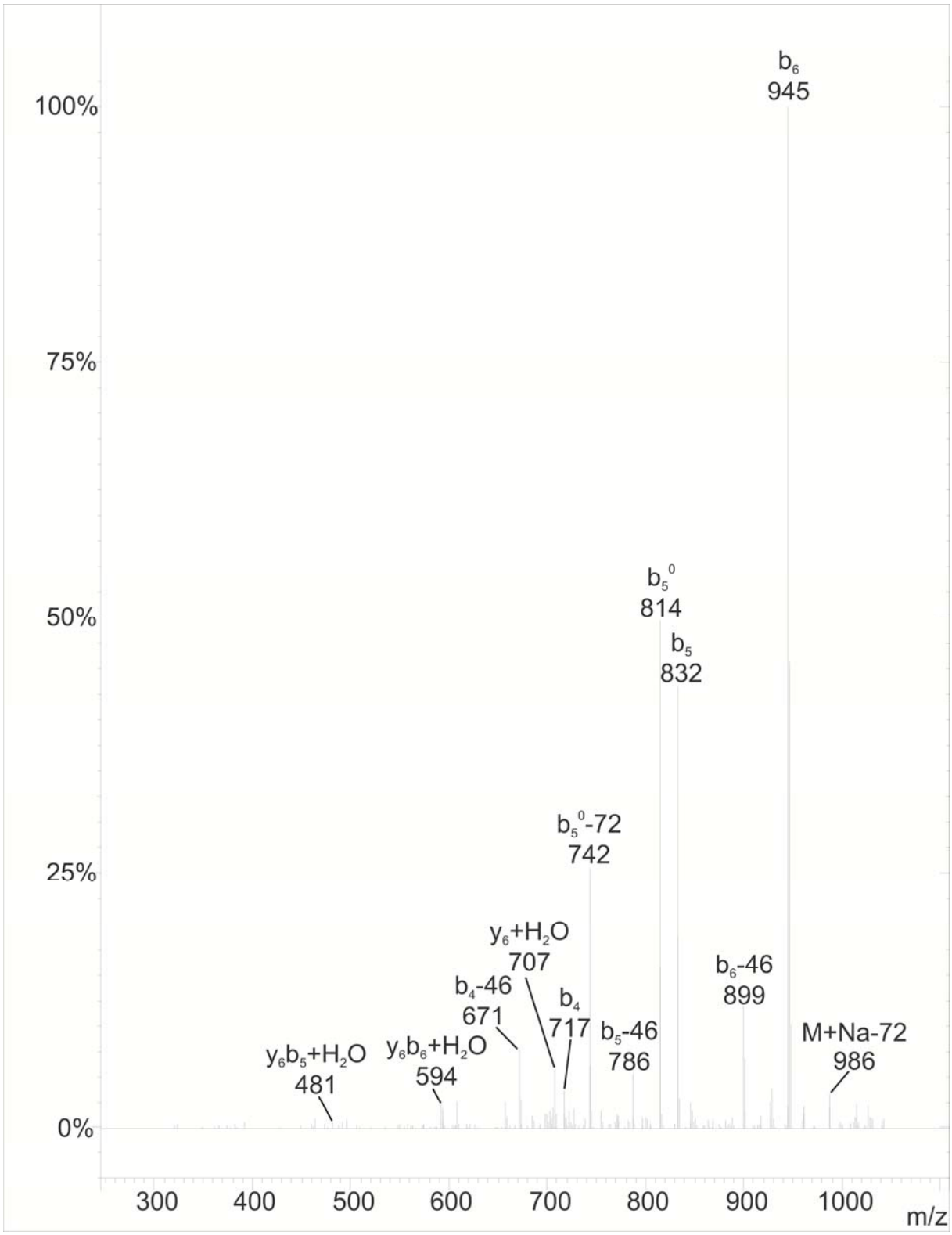

Figure S24. The MS^2 spectrum of **24** (C15-[Sur]) eluted at Rt = 86.01 min (*m*/*z* = 1058).

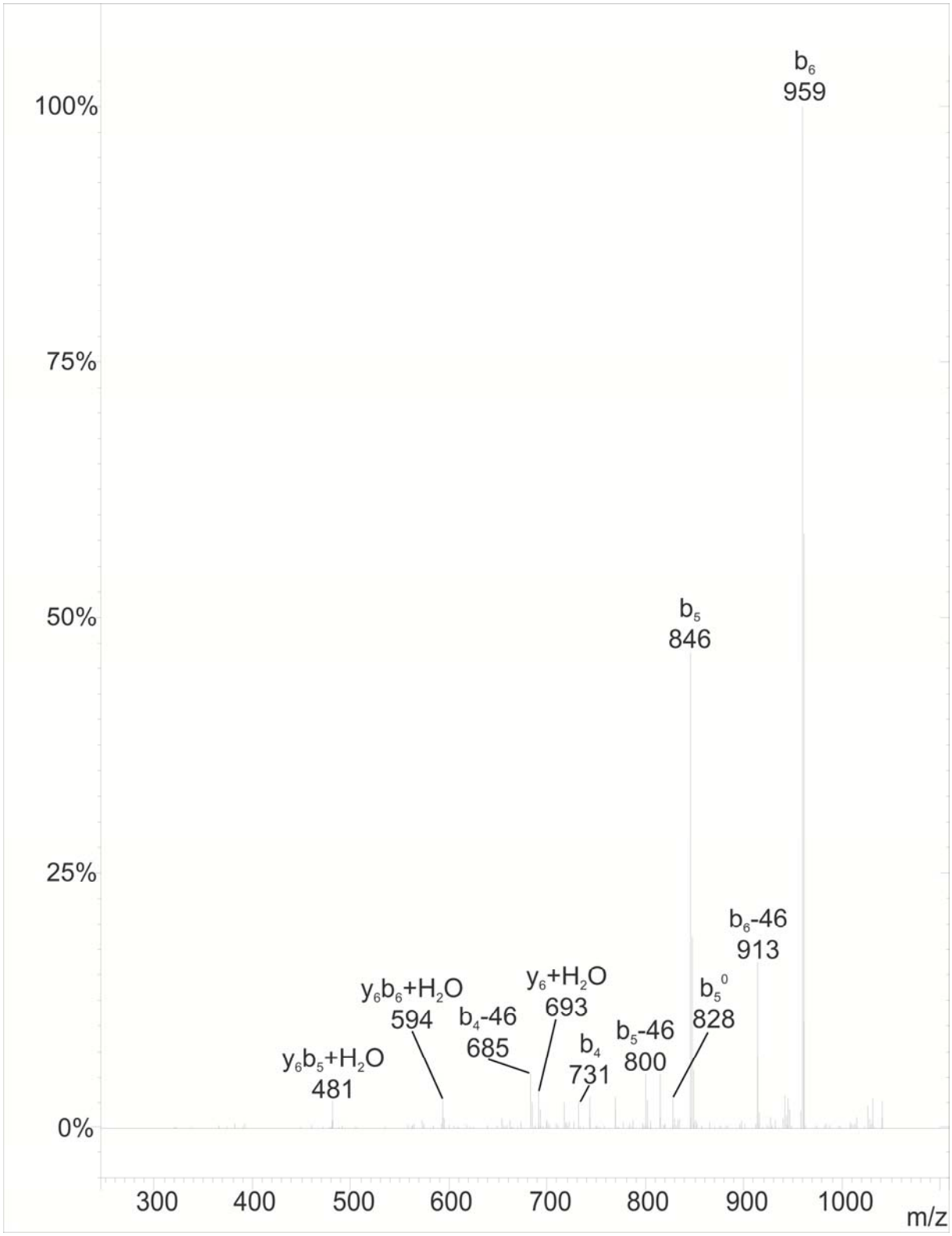

Figure S25. The MS^2 spectrum of **25** (C16-[Val7]) eluted at Rt = 87.02 min (*m*/*z* = 1058).

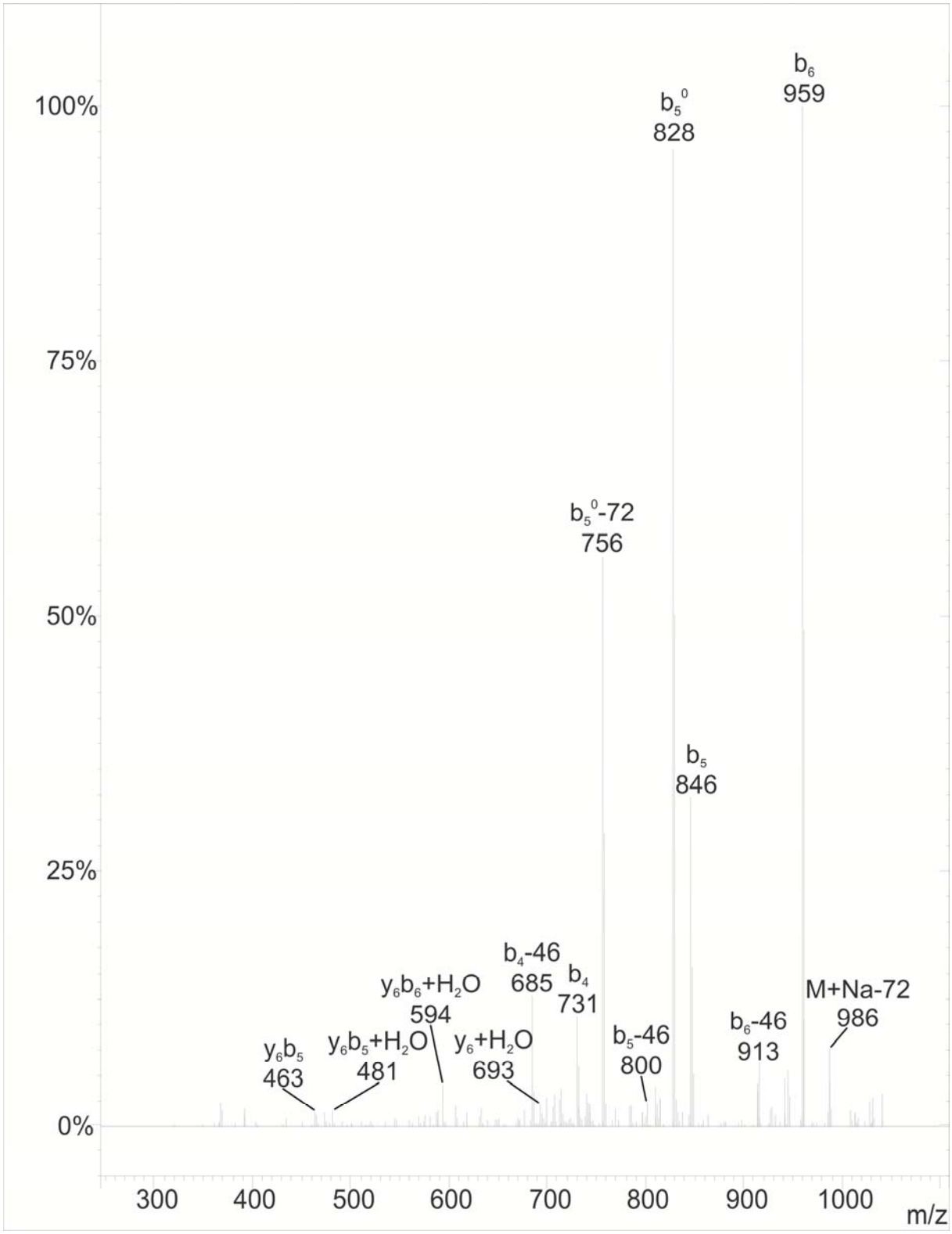

Figure S26. The MS^2 spectrum of **26** (C16-[Val7]) eluted at Rt = 88.18 min (*m*/*z* = 1058).

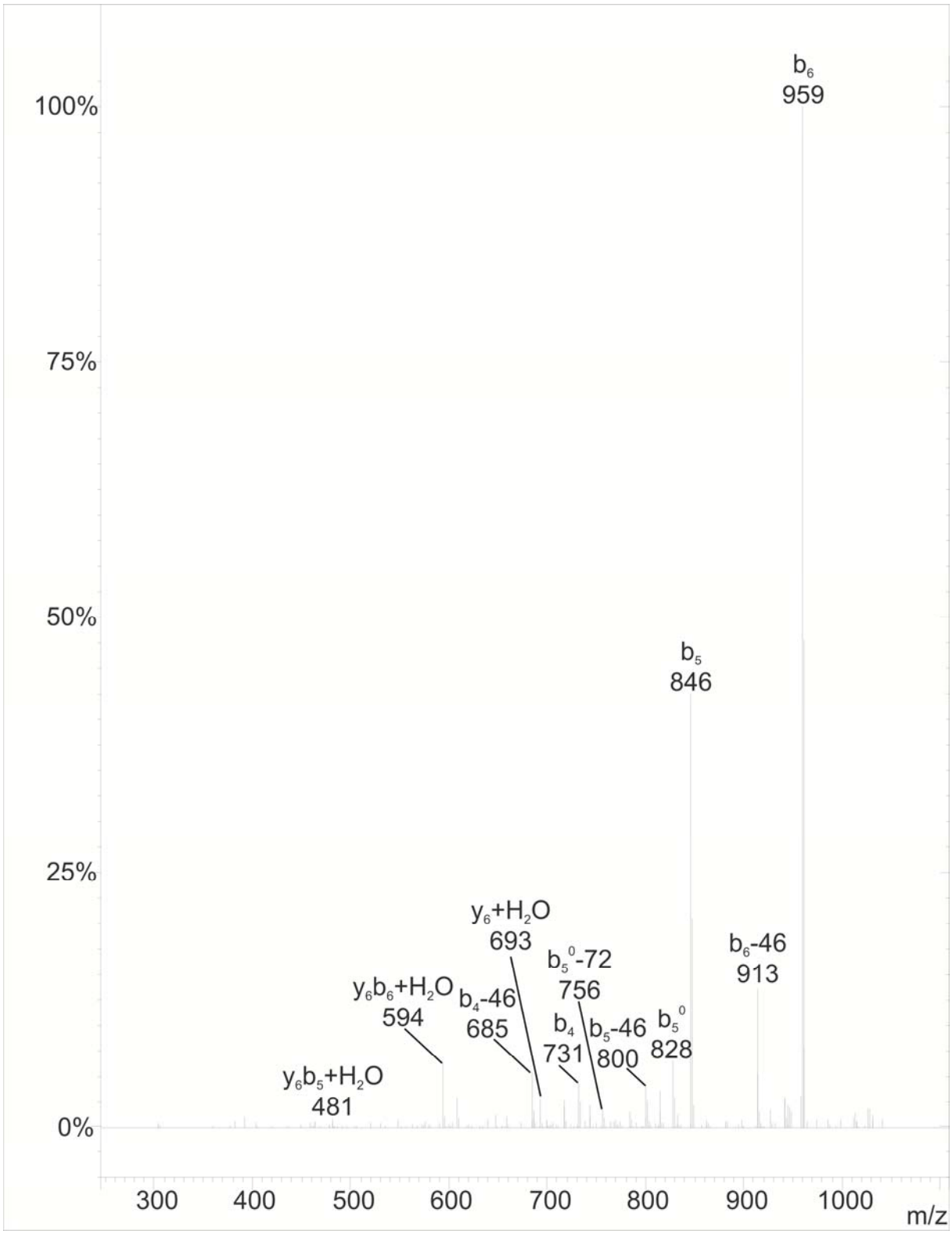

Figure S27. The MS^2 spectrum of **27** (C16-[Val7]) eluted at Rt = 89.15 min (*m*/*z* = 1058).

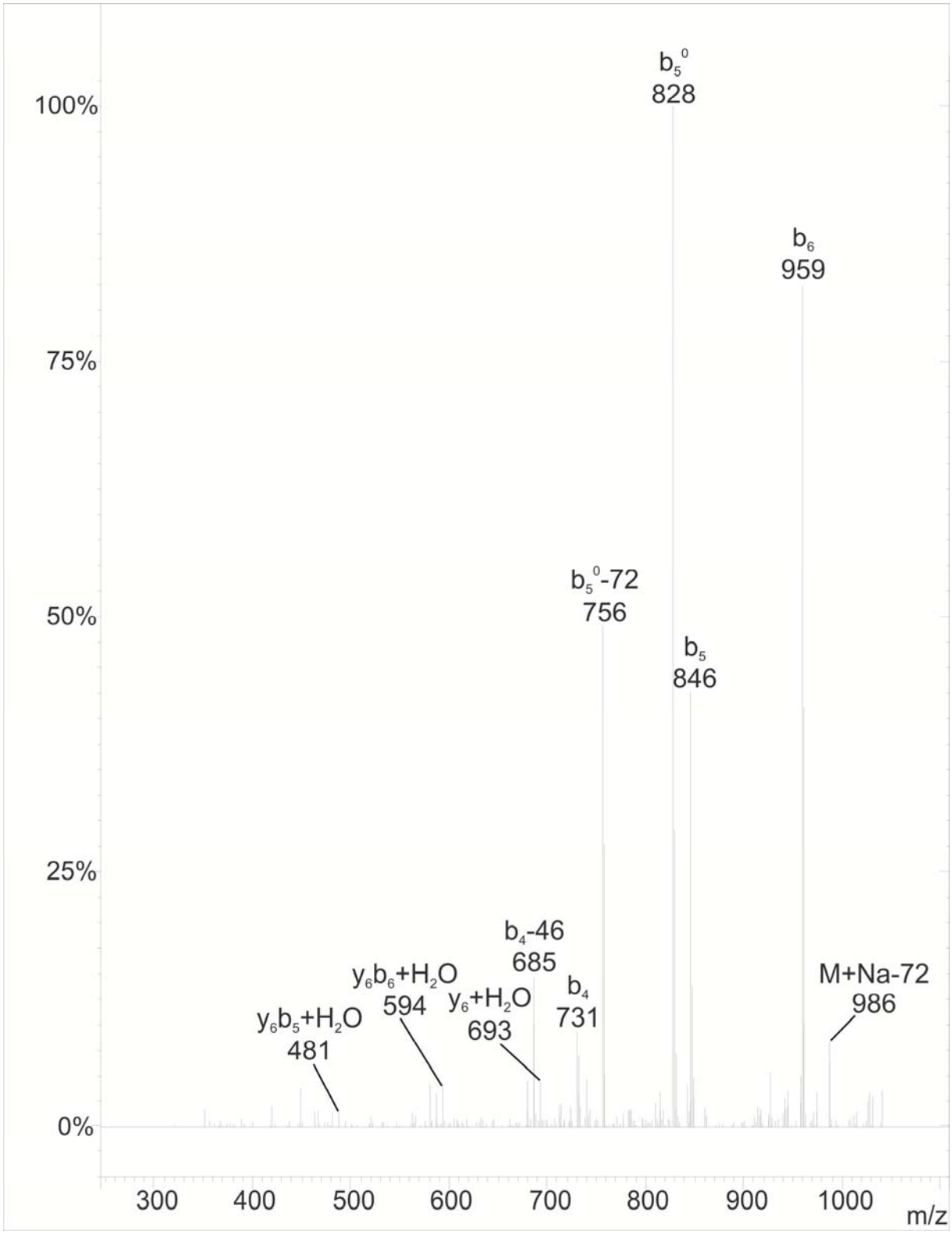

Figure S28. The MS^2 spectrum of **28** (C16-[Val7]) eluted at Rt = 90.68 min (*m*/*z* = 1058).

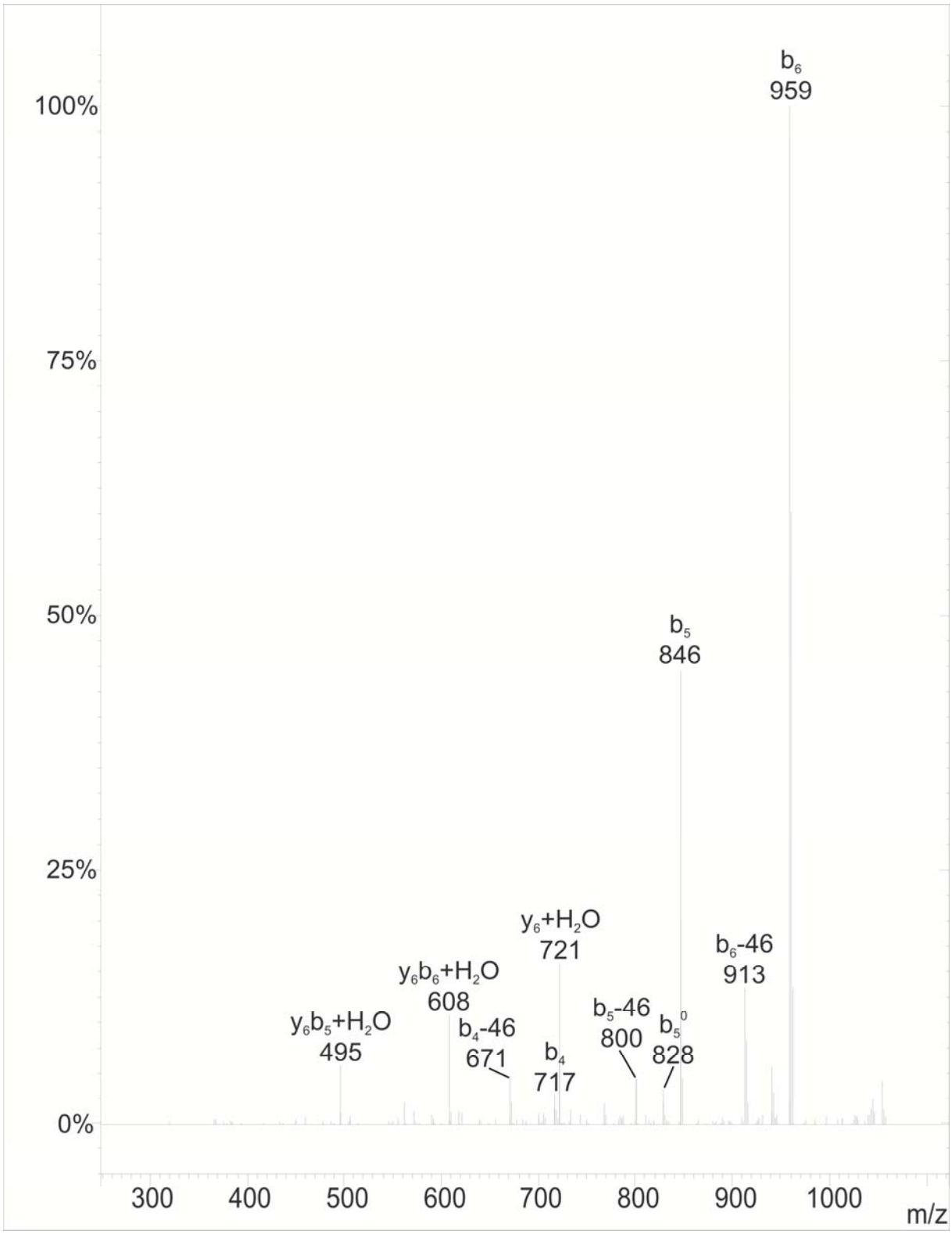

Figure S29. The MS^2 spectrum of **29** (C15-[AME5]) eluted at Rt = 86.80 min (*m*/*z* = 1072).

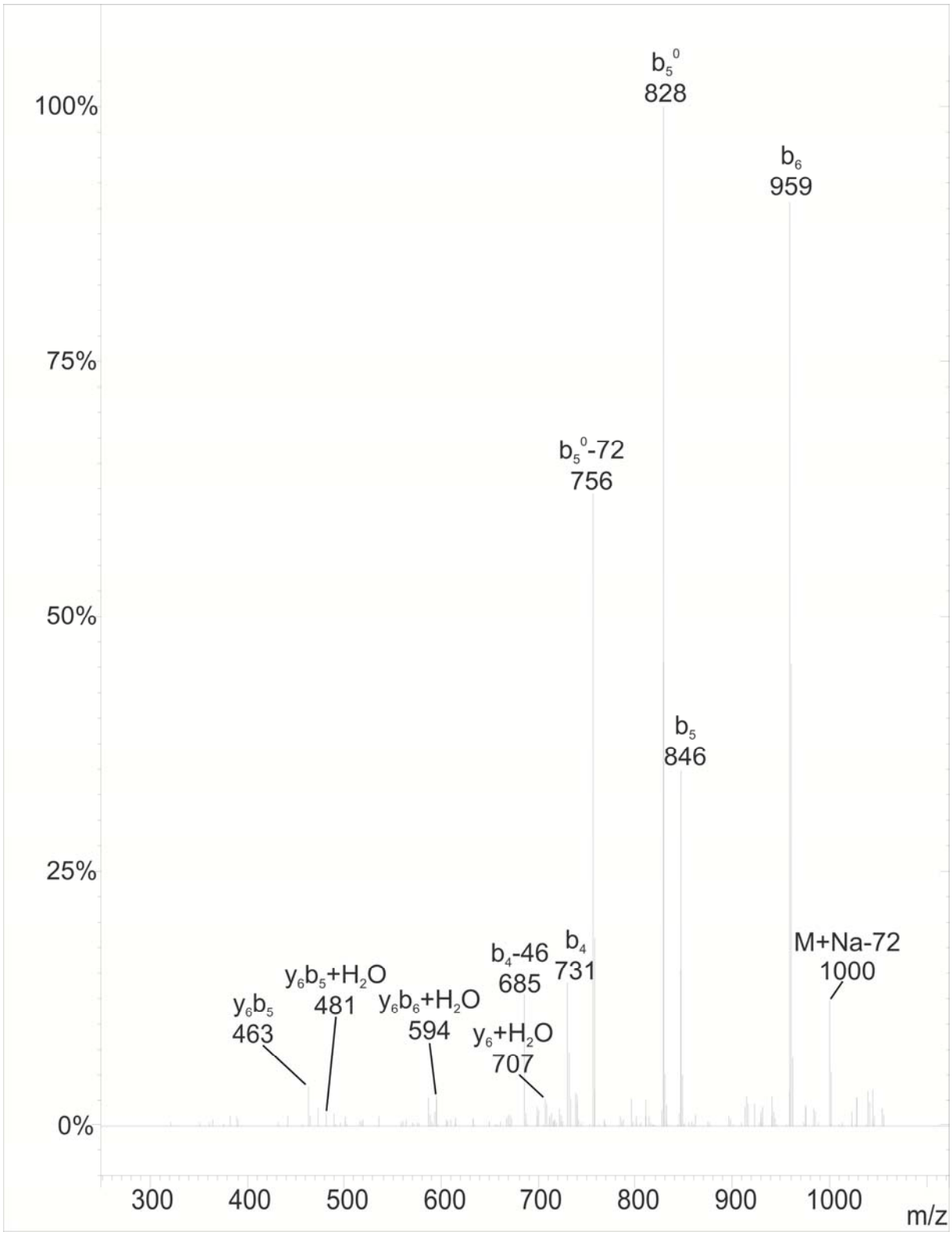

Figure S30. The MS^2 spectrum of **30** (C16-[Sur]) eluted at Rt = 87.56 min (*m*/*z* = 1072).

Figure S31. The MS^2 spectrum of **31** (C15-[AME5]) eluted at Rt = 88.77 min (*m*/*z* = 1072).

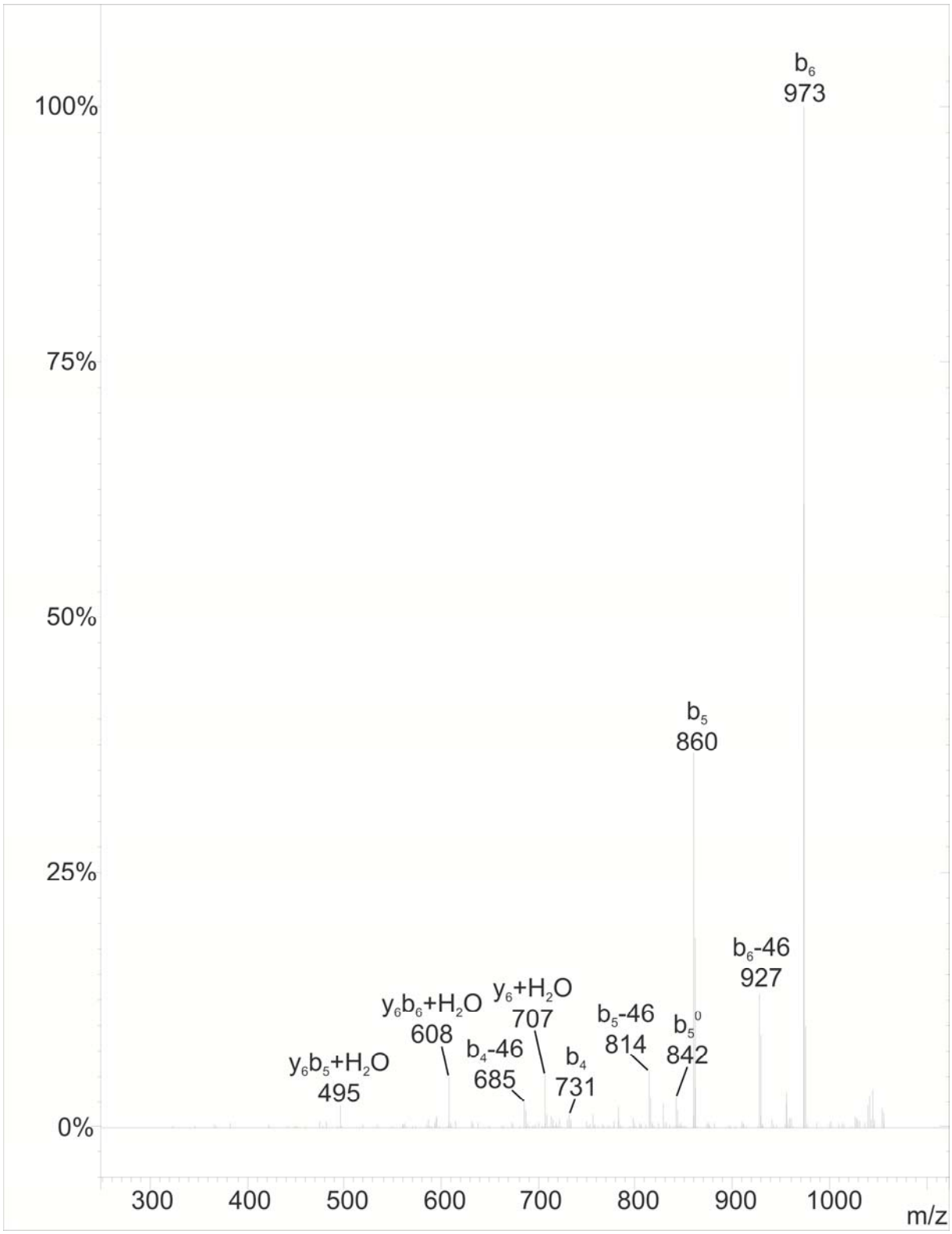

Figure S32. The MS^2 spectrum of **32** (C16-[AME5,Val7]) eluted at Rt = 89.71 min (*m*/z = 1072).

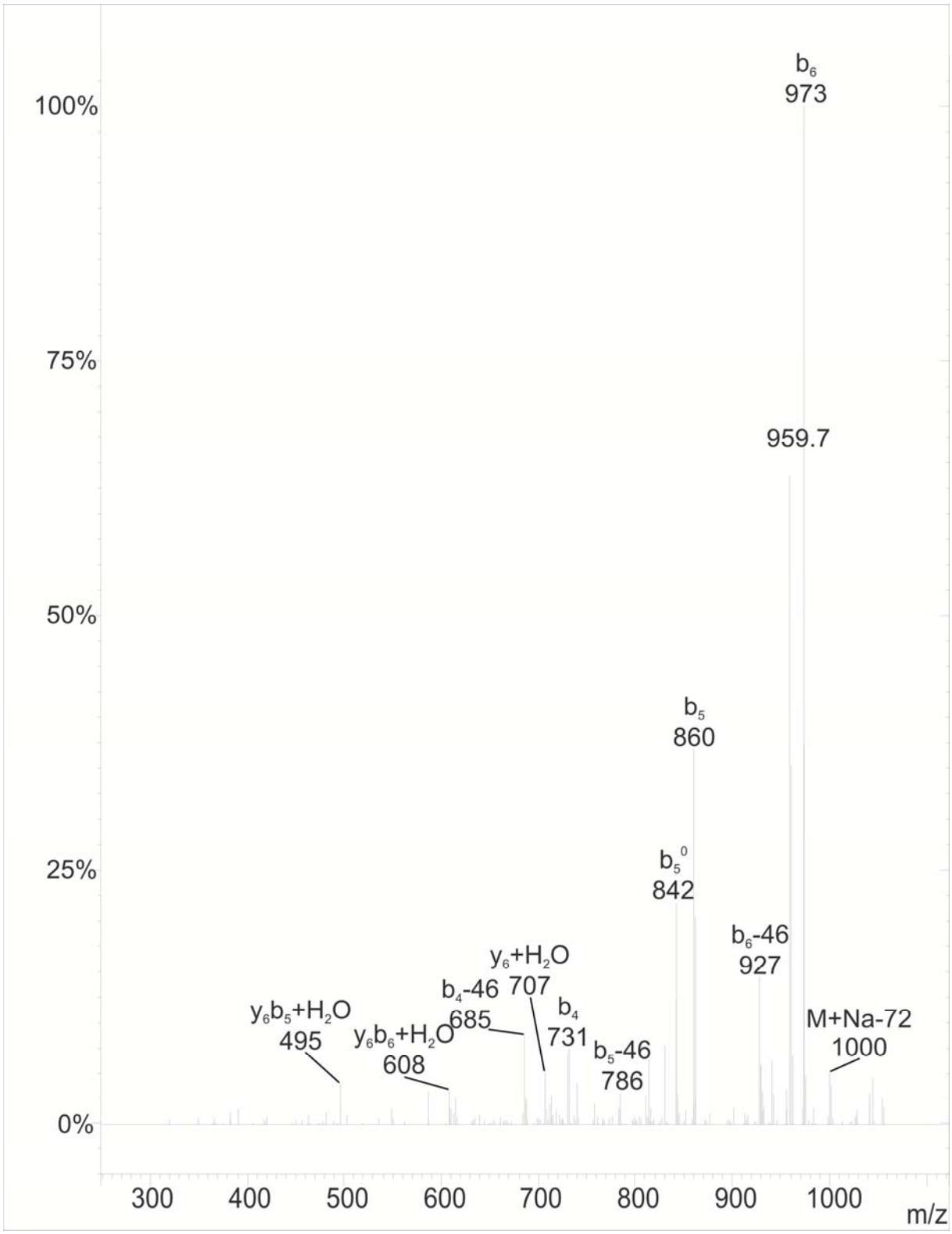

Figure S33. The MS^2 spectrum of **33** (C16-[AME5,Val7]) eluted at Rt = 90.13 min (*m*/*z* = 1072).

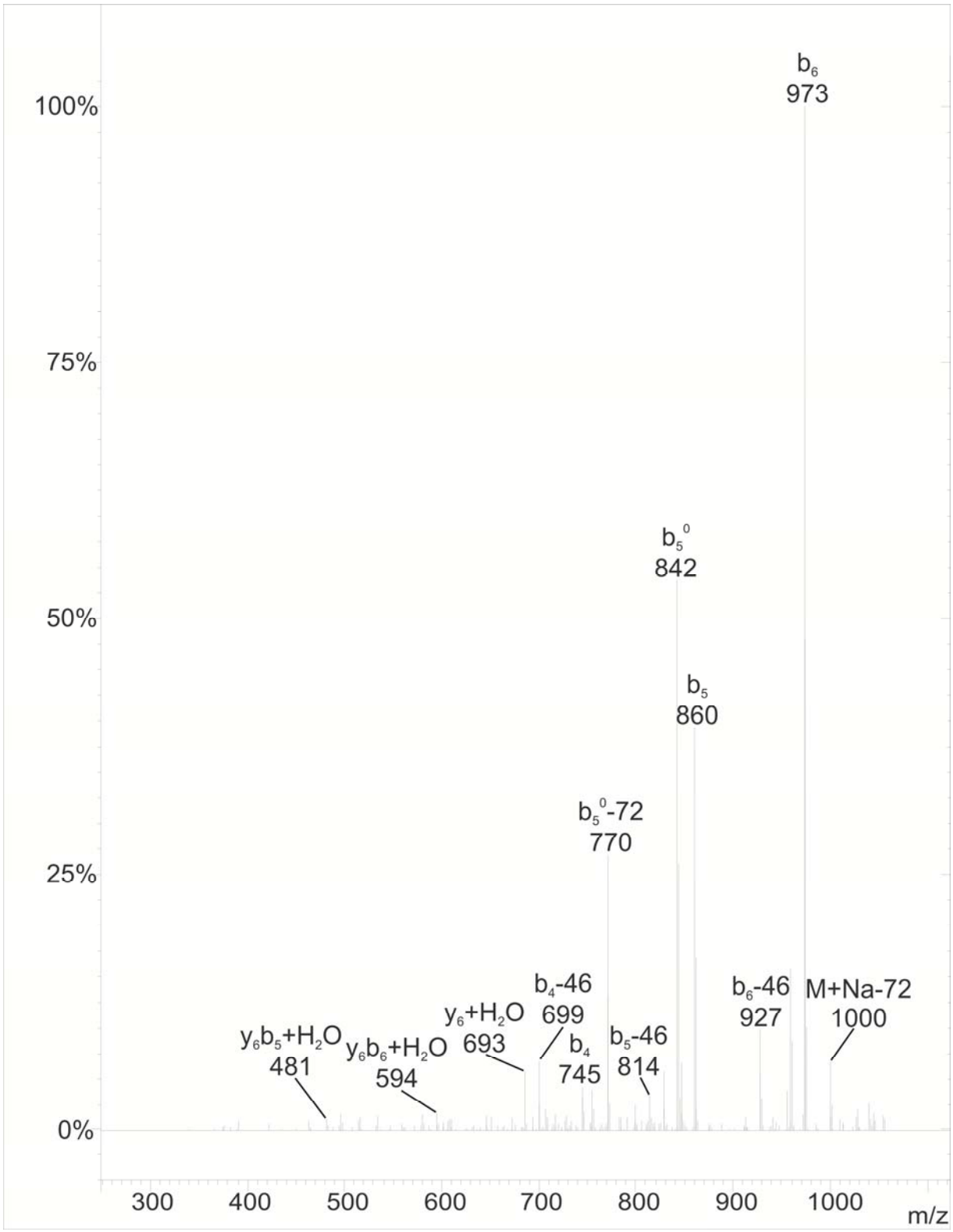

Figure S34. The MS^2 spectrum of **34** (C17-[Val7]) eluted at Rt = 91.13 min (*m*/*z* = 1072).

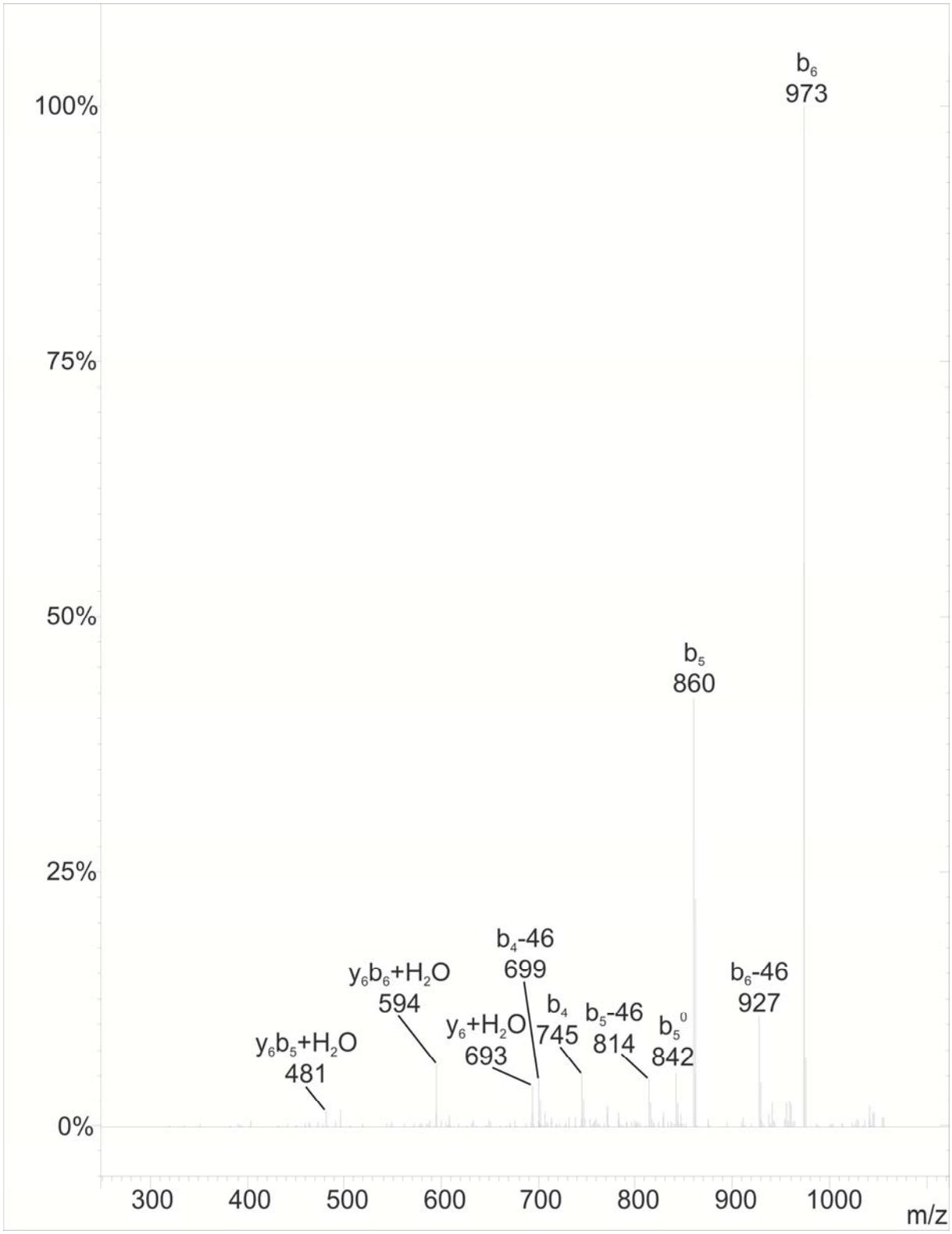

Figure S35. The MS^2 spectrum of **35** (C17-[Val7]) eluted at Rt = 92.02 min (*m*/*z* = 1072).

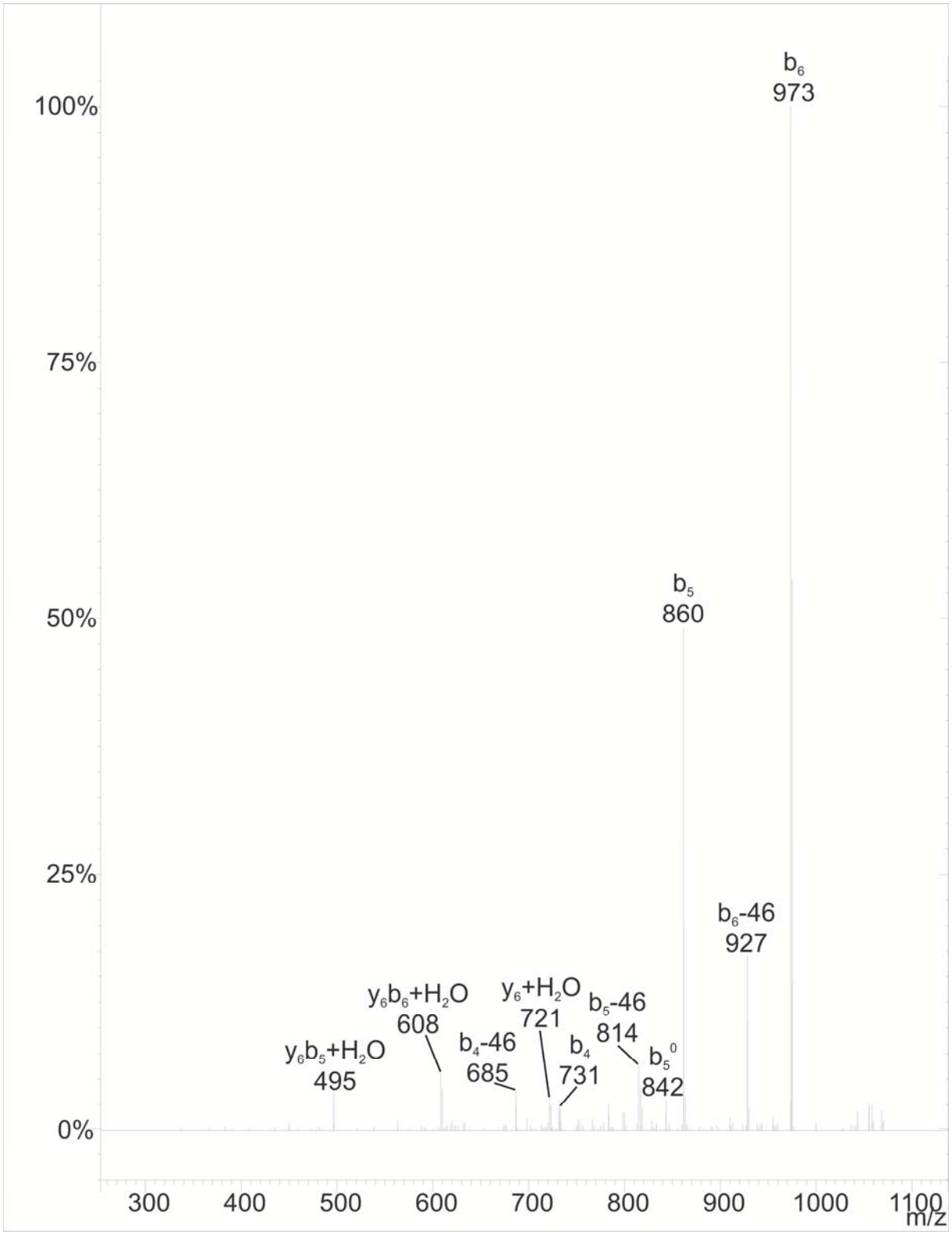

Figure S36. The MS^2 spectrum of **36** (C16-[AME5]) eluted at Rt = 89.41 min (*m*/*z* = 1086).

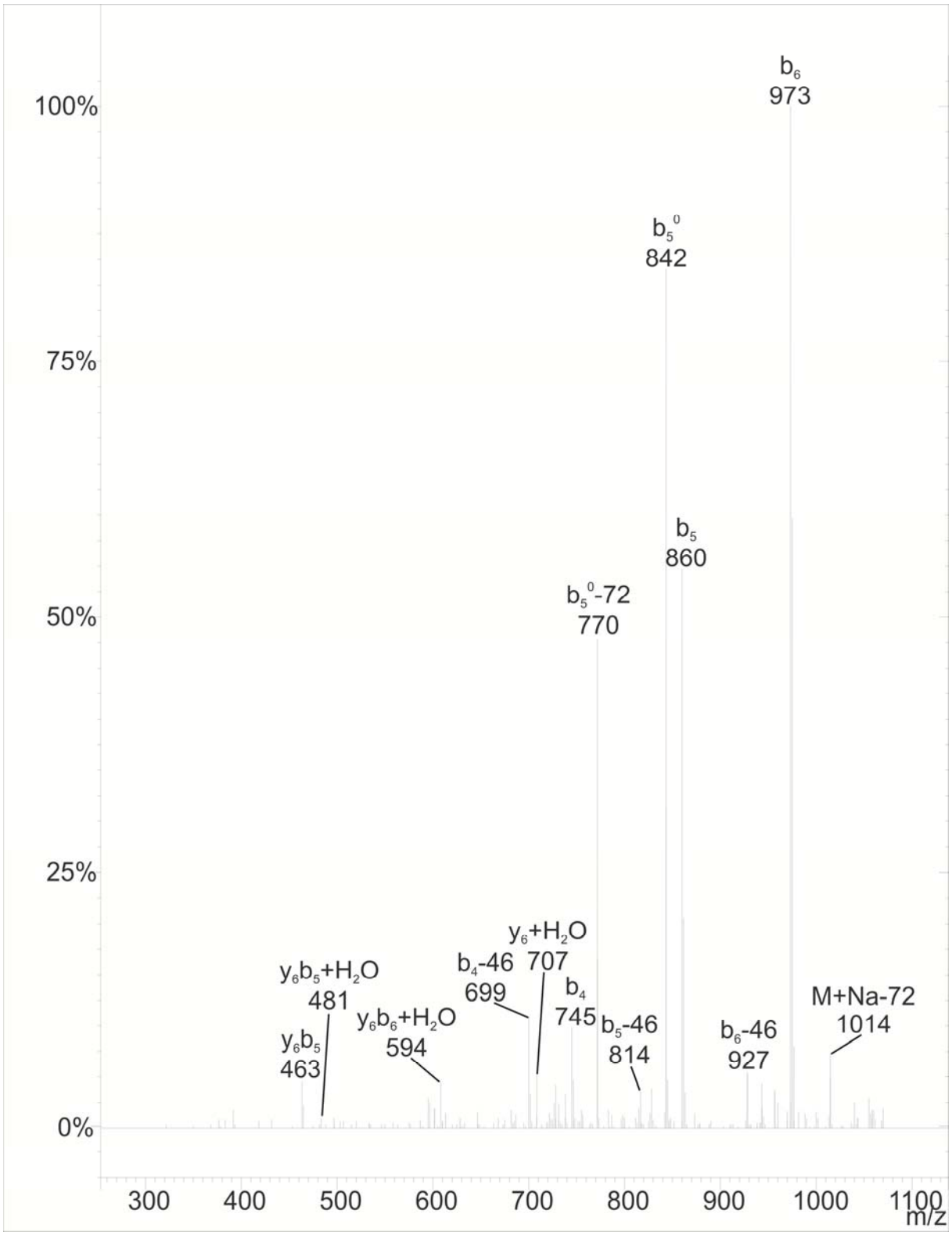

Figure S37. The MS^2 spectrum of **37** (C17-[Sur]) eluted at Rt = 90.50 min (*m*/*z* = 1086).

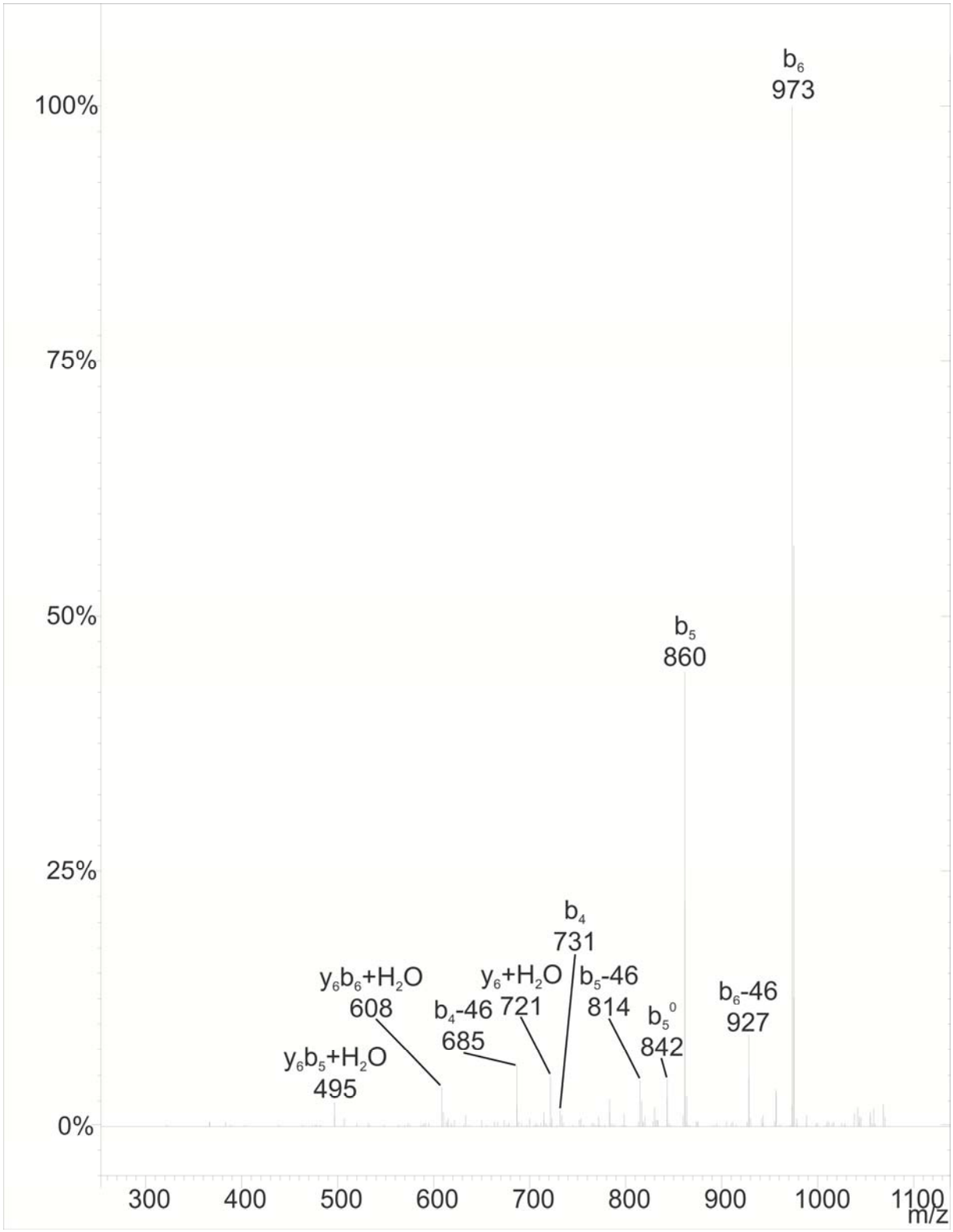

Figure S38. The MS^2 spectrum of **38** (C16-[AME5]) eluted at Rt = 91.61 min (*m*/*z* = 1086).

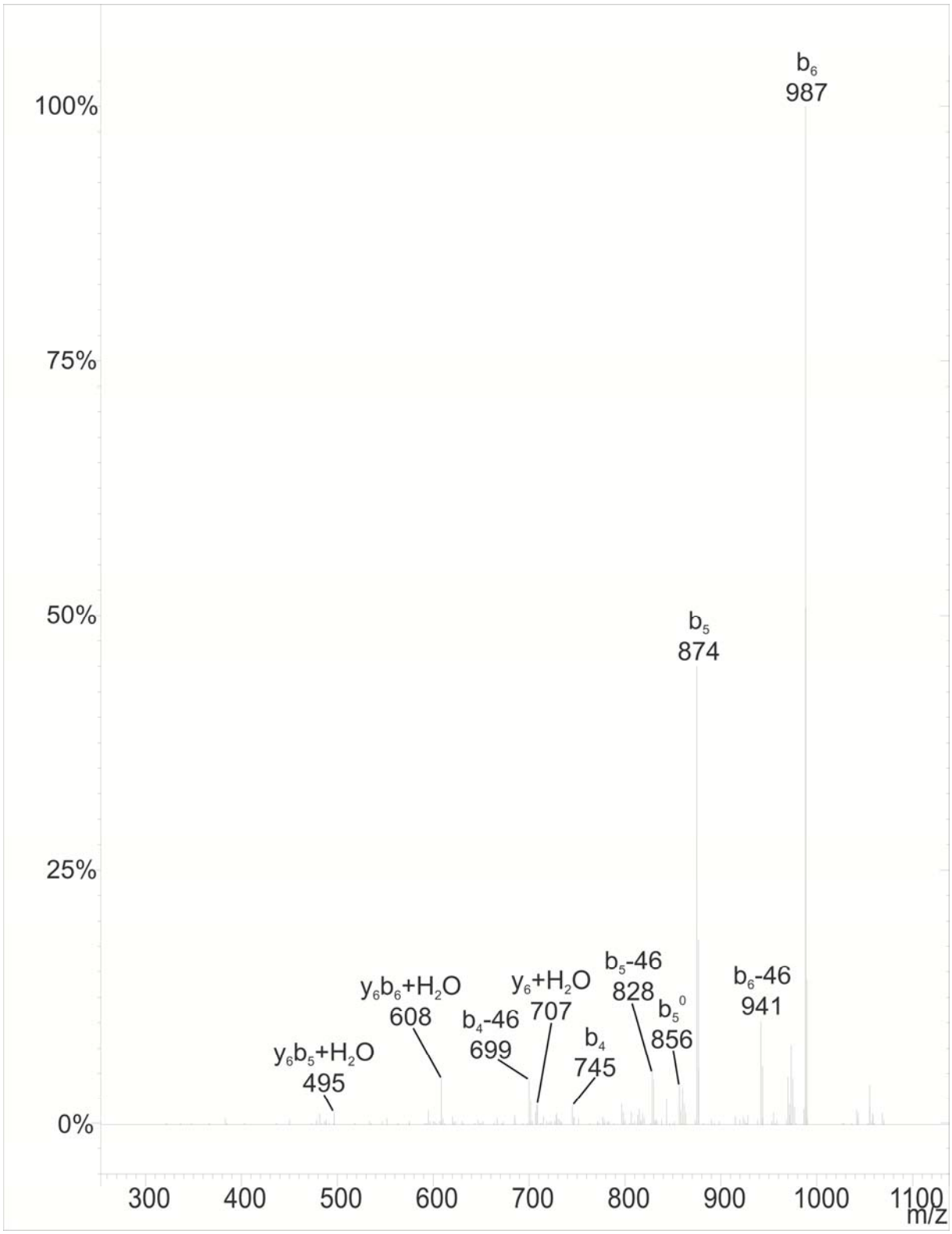

Figure S39. The MS^2 spectrum of **39** (C17-[AME5,Val7]) eluted at Rt = 92.61 min (*m*/*z* = 1086).

Figure S40. The MS^2 spectrum of **40** (C17-[AME5,Val7]) eluted at Rt = 93.69 min (*m*/*z* = 1086).

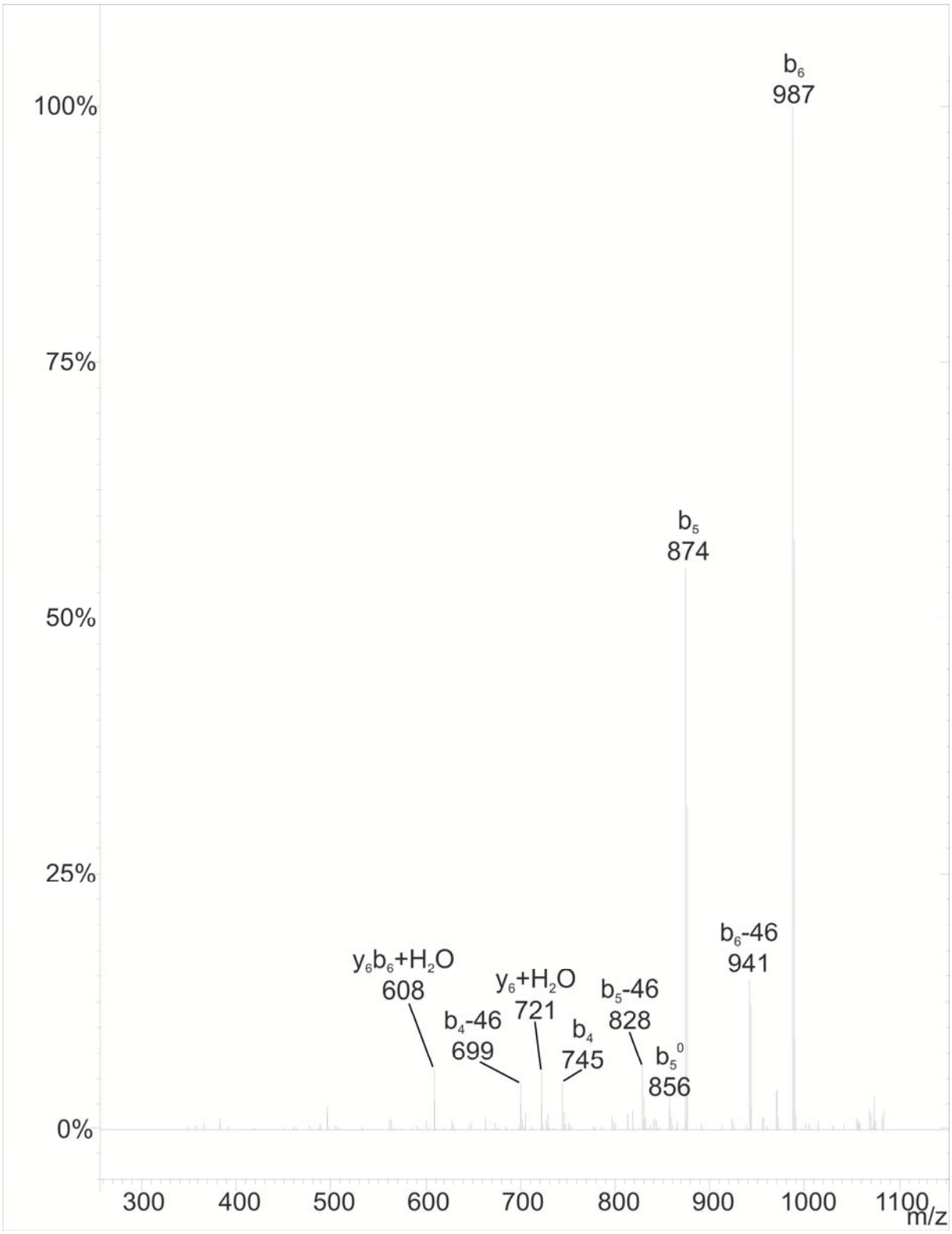

Figure S41. The MS^2 spectrum of **41** (C17-[AME5]) eluted at Rt = 92.24 min (m/z = 1100).

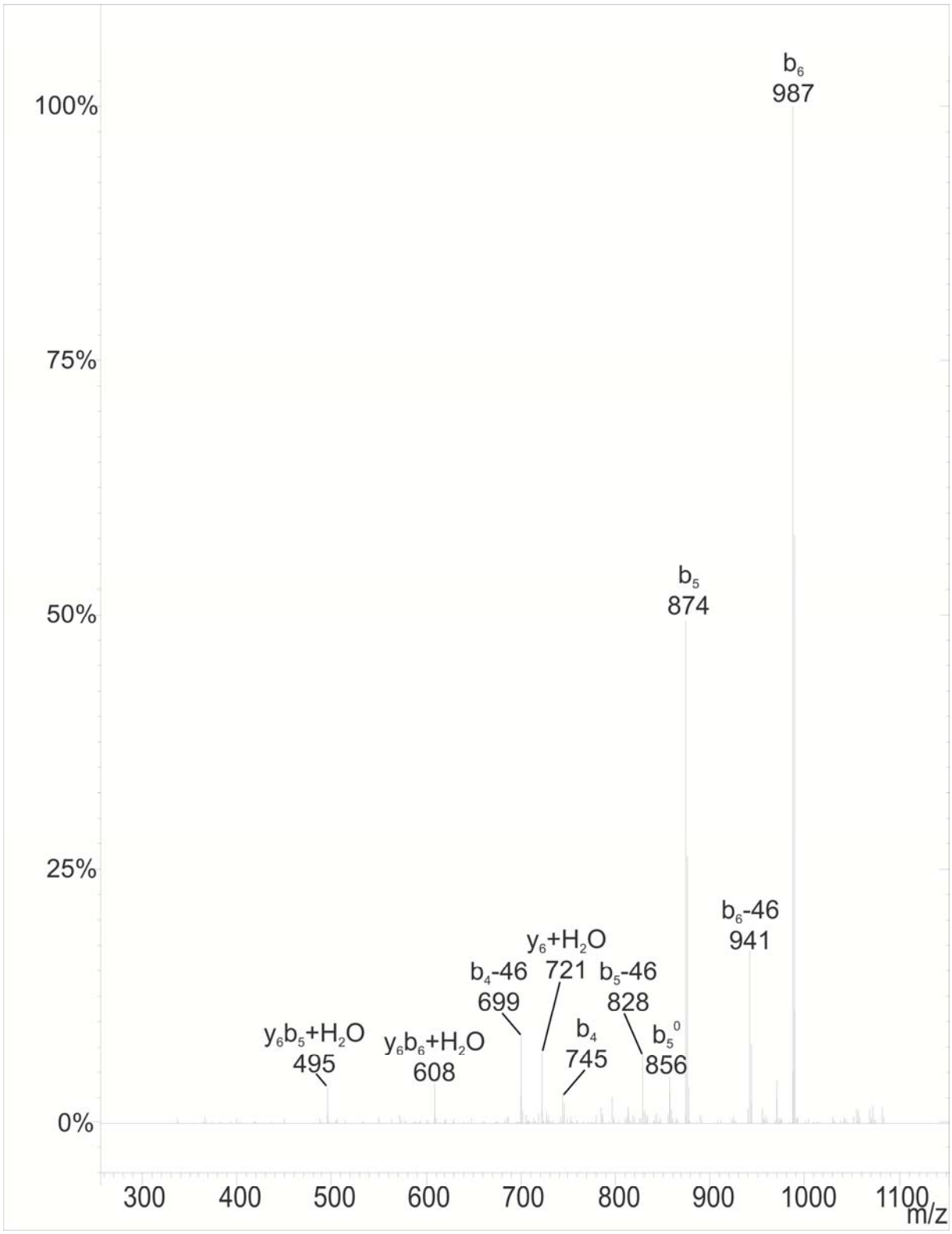

Figure S42. The MS^2 spectrum of **42** (C17-[AME5]) eluted at Rt = 93.06 min (*m*/*z* = 1100).

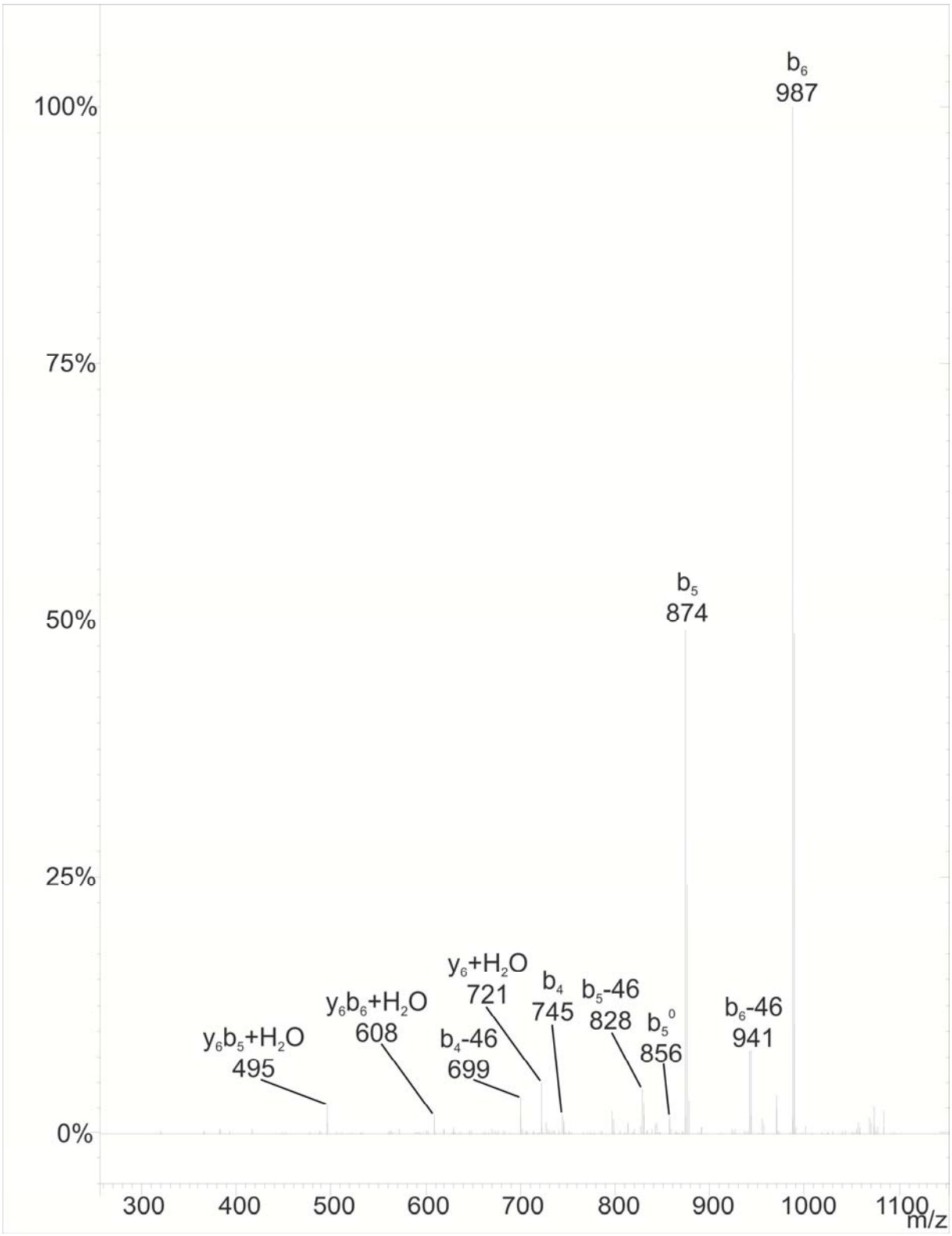

Figure S43. The MS^2 spectrum of **43** (C17-[AME5]) eluted at Rt = 93.96 min (*m*/*z* = 1100).

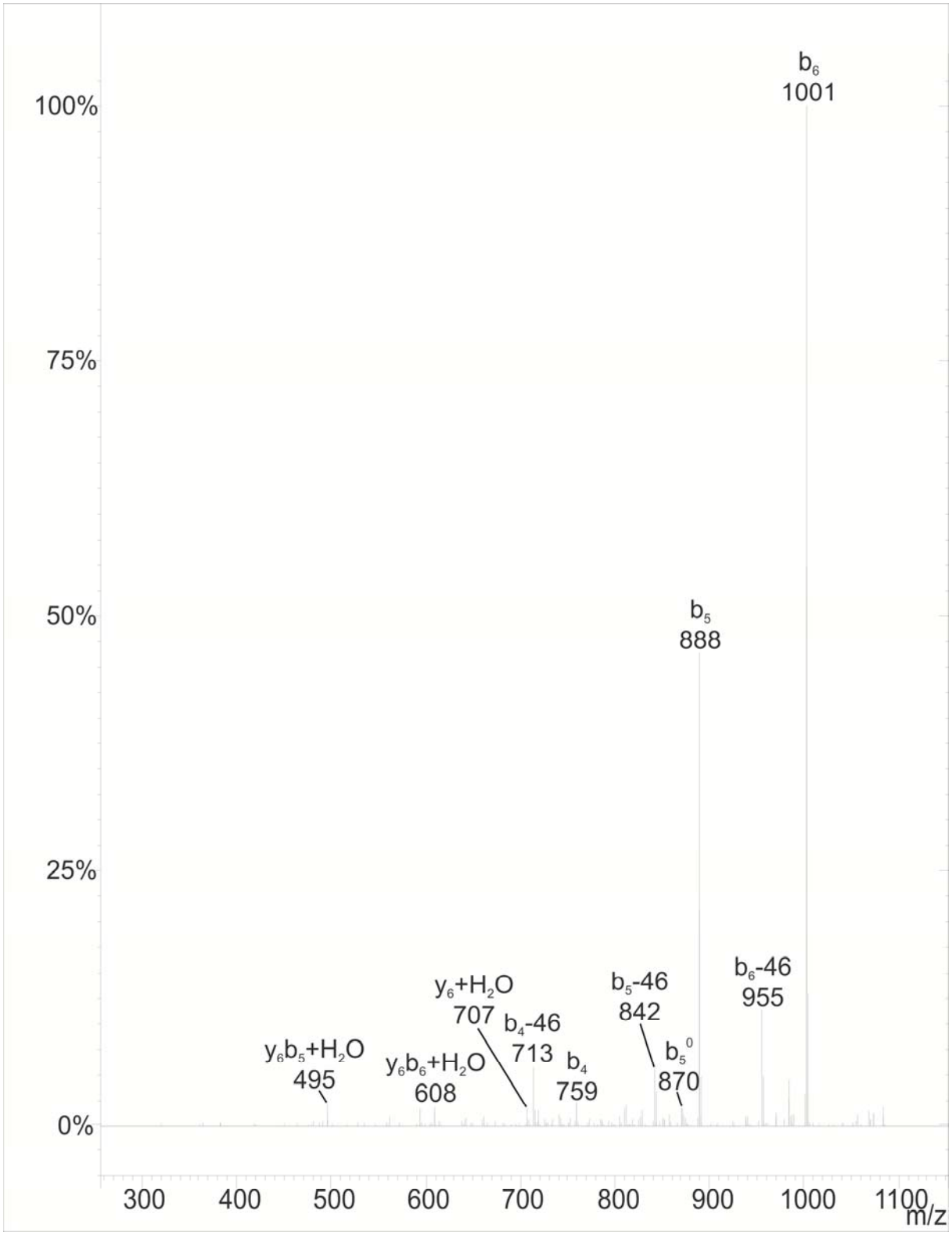

Figure S44. The MS^2 spectrum of **44** (C18-[AME5,Val7]) eluted at Rt = 94.71 min (*m*/*z* = 1100).

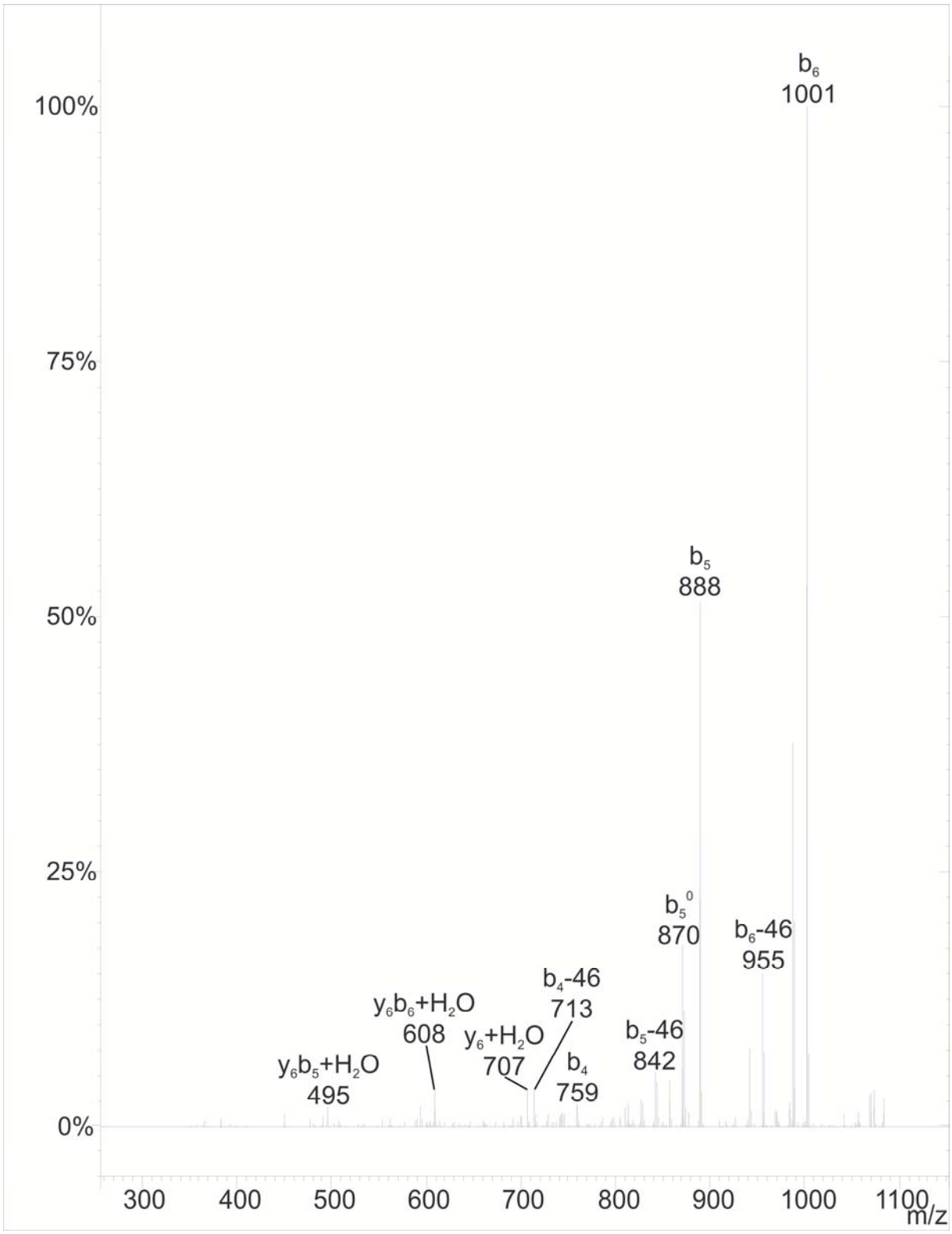

Figure S45. The MS^2 spectrum of **45** (C18-[AME5,Val7]) eluted at Rt = 95.80 min (*m*/z = 1100).

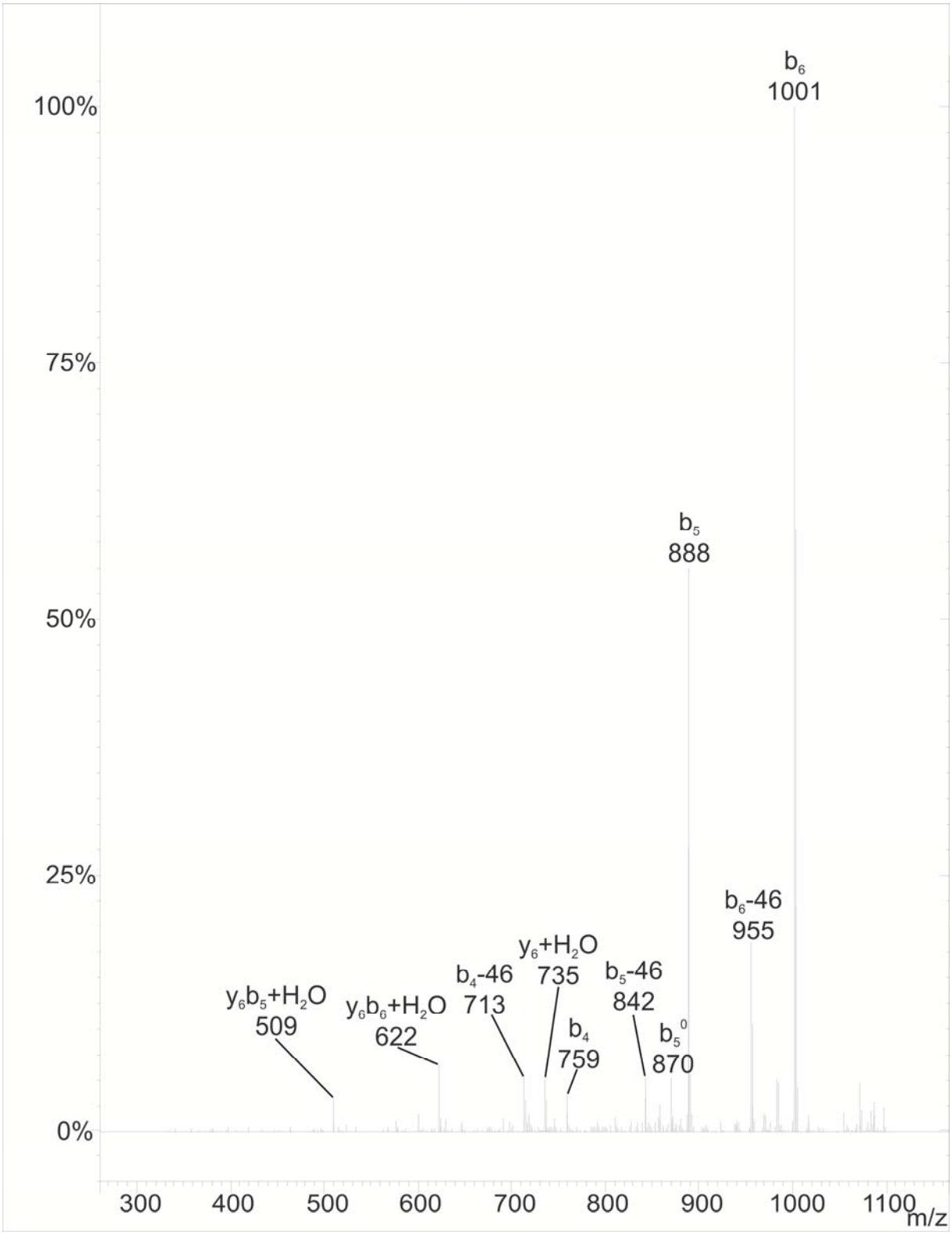

Figure S46. The MS^2 spectrum of **46** (C17-[Leu4,AME5]) eluted at Rt = 93.56 min (*m*/*z* = 1114).

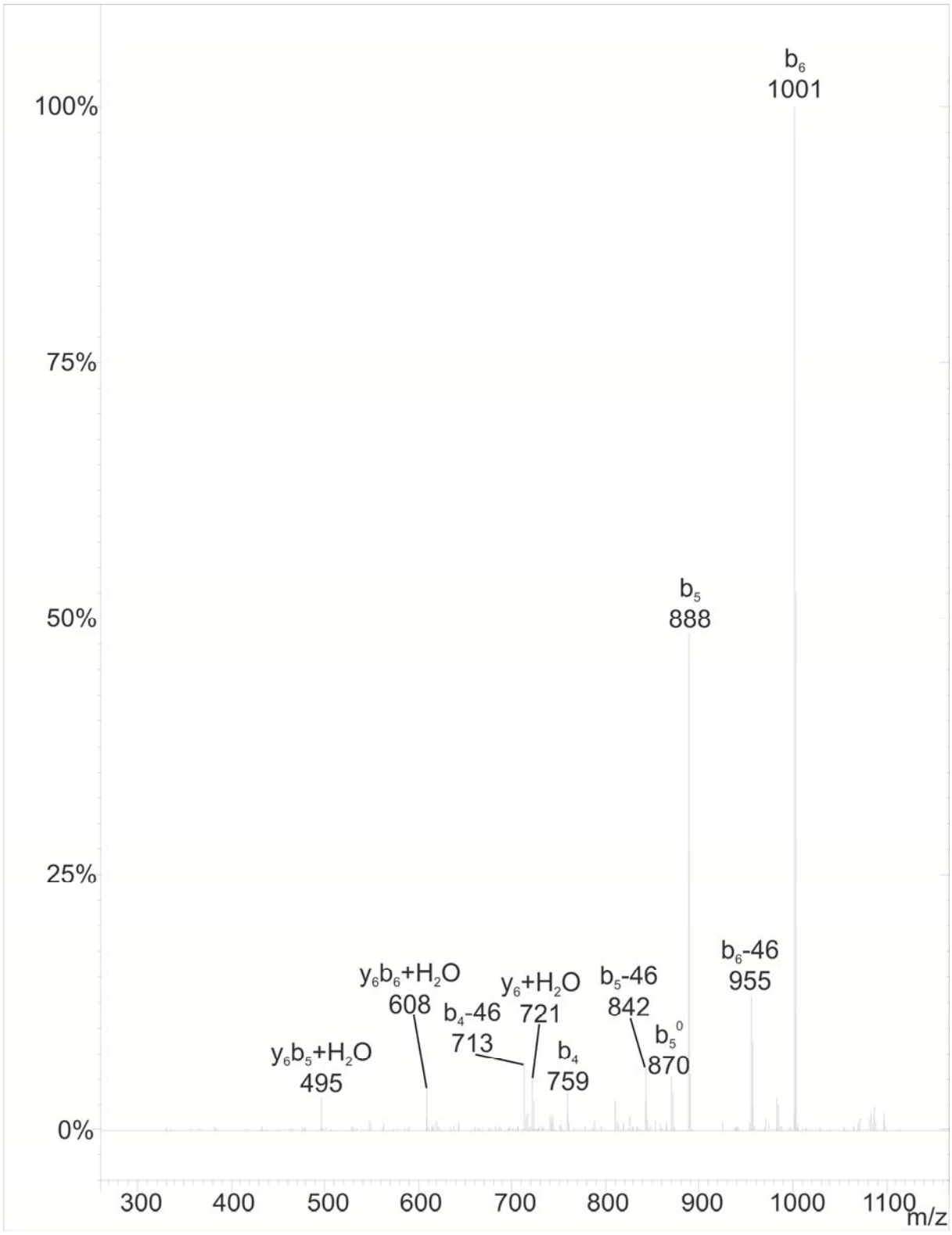

Figure S47. The MS^2 spectrum of **47** (C18-[AME5]) eluted at Rt = 94.39 min (*m*/*z* = 1114).

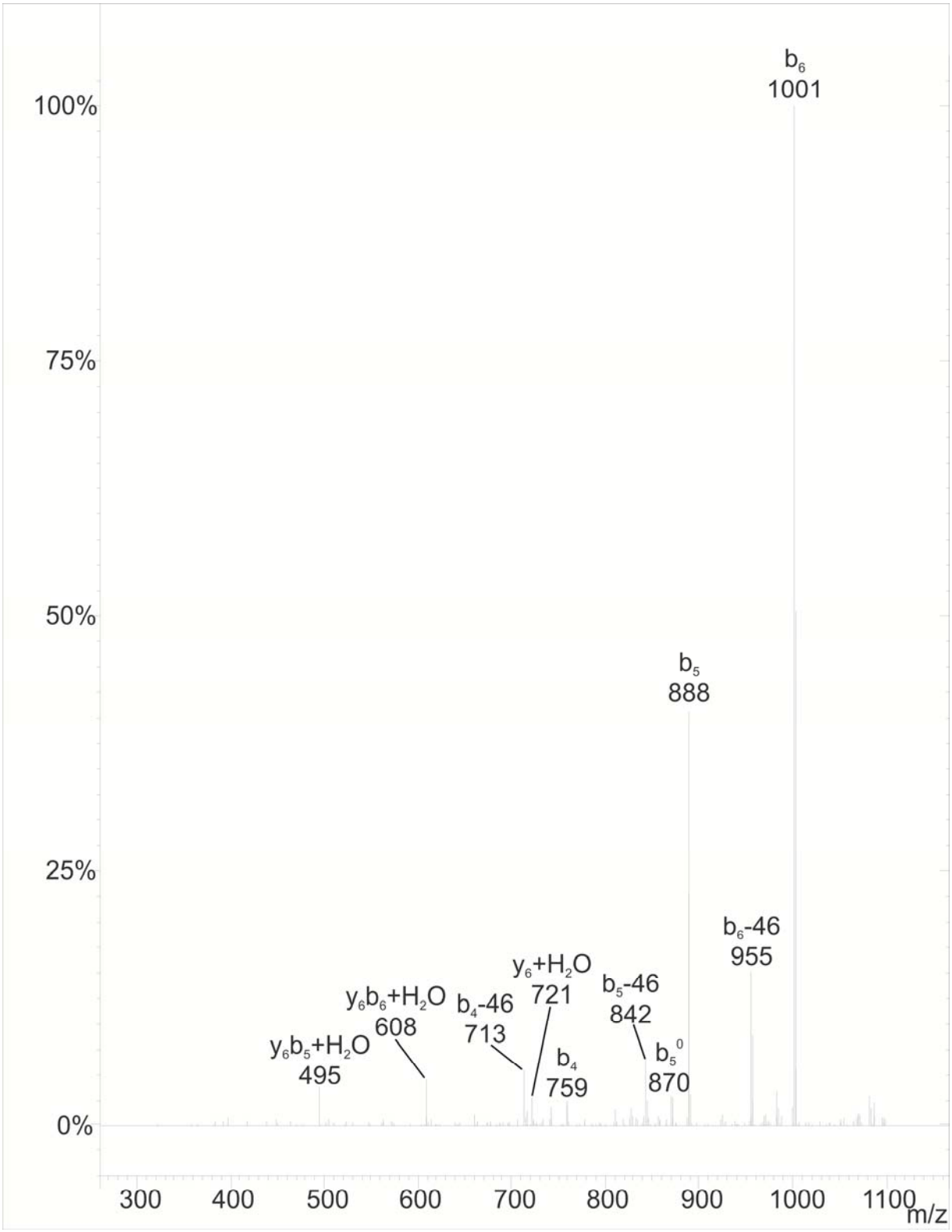

Figure S48. The MS^2 spectrum of **48** (C18-[AME5]) eluted at Rt = 95.24 min (*m*/*z* = 1114).

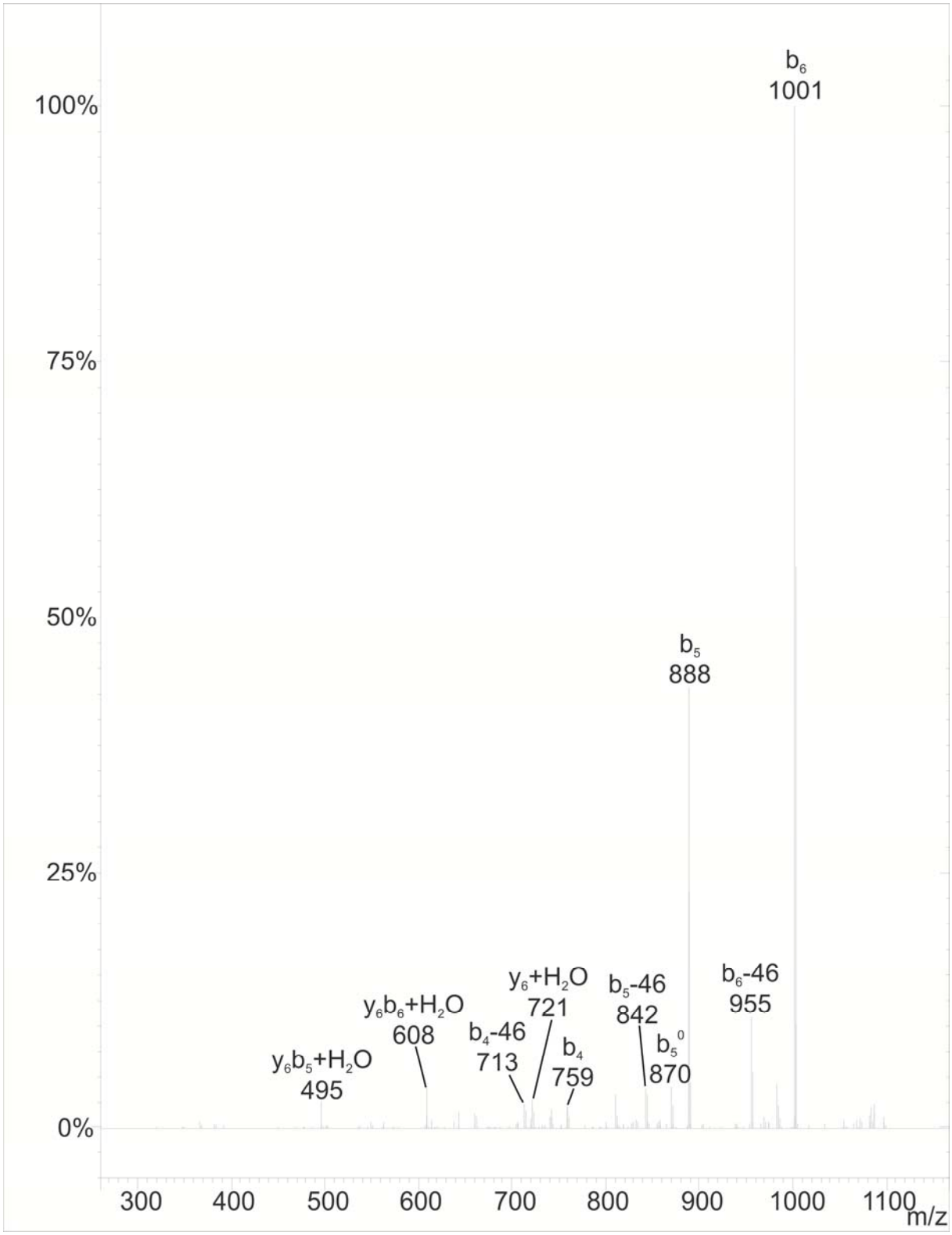

Figure S49. The MS^2 spectrum of **49** (C18-[AME5]) eluted at Rt = 96.01 min (*m*/*z* = 1114).