

Supporting Information

Phytochemical Investigation of *Equisetum arvense* and Evaluation of their Anti-inflammatory Potential in TNF α /INF γ -stimulated keratinocytes

Se Yun Jeong ^{1,†}, Hyung-Seok Yu ^{2,†}, Moon-Jin Ra ³, Sang-Mi Jung ³, Jeong-Nam Yu ⁴, Jin-Chul Kim ^{2,5,*} and Ki Hyun Kim ^{1,*}

¹School of Pharmacy, Sungkyunkwan University, Suwon 16419, Republic of Korea; dlawktkark@naver.com (S.Y.J.)

²Natural Product Research Institute, Korea Institute of Science and Technology, Gangneung 25451, Republic of Korea; hsyu1207@kist.re.kr (H.S.Y.)

³Hongcheon Institute of Medicinal Herb, Hongcheon-gun, Gangwon-do 25142, Republic of Korea; ramj90@himh.re.kr (M.J.R.); sgmo77@naver.com (S.M.J.)

⁴Nakdonggang National Institute of Biological Resources, Sangju, Gyeongsangbuk-do 37242, Republic of Korea; susia000@nnibr.re.kr (J.N.Y.)

⁵Division of Bio-Medical Science and Technology, University of Science and Technology (UST), Daejeon 34113, Republic of Korea

*Correspondence: jckim@kist.re.kr (J.C.K.); khkim83@skku.edu (K.H.K.); +82-31-290-7700 (K.H.K.)

[†]These authors contributed equally to this study

Supporting Information Contents:

Figure S1. The HR-ESI-MS data of 1	S3
Figure S2. The ¹ H NMR spectrum of 1 (DMSO- <i>d</i> ₆ 850 MHz)	S4
Figure S3. The HR-ESI-MS data of 2	S5
Figure S4. The ¹ H NMR spectrum of 2 (DMSO- <i>d</i> ₆ , 850 MHz)	S6
Figure S5. The HR-ESI-MS data of 3	S7
Figure S6. The ¹ H NMR spectrum of 3 (DMSO- <i>d</i> ₆ , 850 MHz)	S8
Figure S7. The HR-ESI-MS data of 4	S9
Figure S8. The ¹ H NMR spectrum of 4 (DMSO- <i>d</i> ₆ , 850 MHz)	S10
Figure S9. The HR-ESI-MS data of 5	S11
Figure S10. The ¹ H NMR spectrum of 5 (CD ₃ OD, 850 MHz)	S12
Figure S11. The HR-ESI-MS data of 6	S13
Figure S12. The ¹ H NMR spectrum of 6 (CD ₃ OD, 850 MHz)	S14
Figure S13. The HR-ESI-MS data of 7	S15
Figure S14. The ¹ H NMR spectrum of 7 (CD ₃ OD, 850 MHz)	S16
Figure S15. The HR-ESI-MS data of 8	S17
Figure S16. The ¹ H NMR spectrum of 8 (CD ₃ OD, 850 MHz)	S18
Figure S17. The HR-ESI-MS data of 9	S19
Figure S18. The ¹ H NMR spectrum of 9 (CD ₃ OD, 850 MHz)	S20

Figure S1. The HR-ESIMS data of **1**

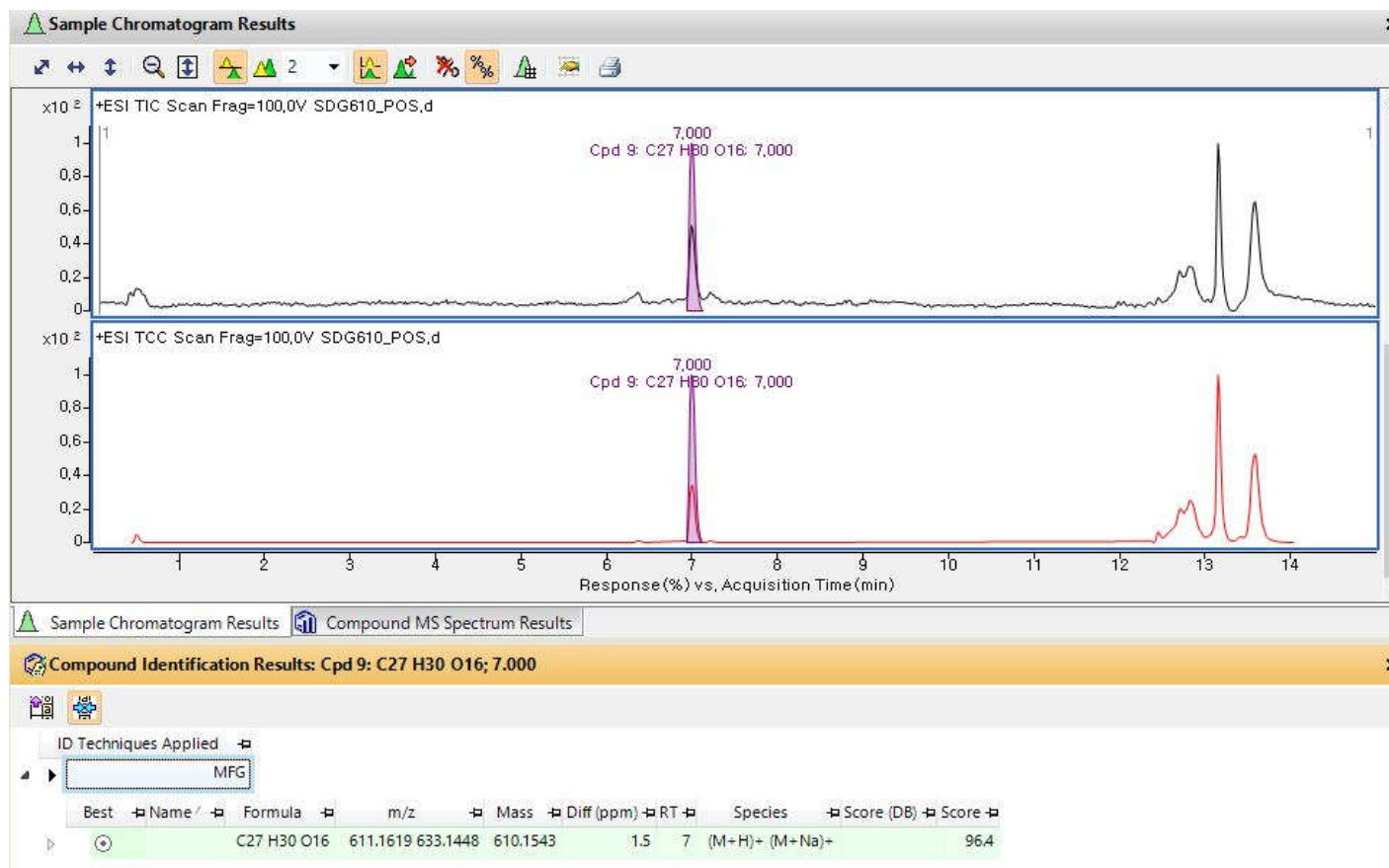


Figure S2. The ^1H NMR spectrum of **1** (DMSO- d_6 , 850 MHz)

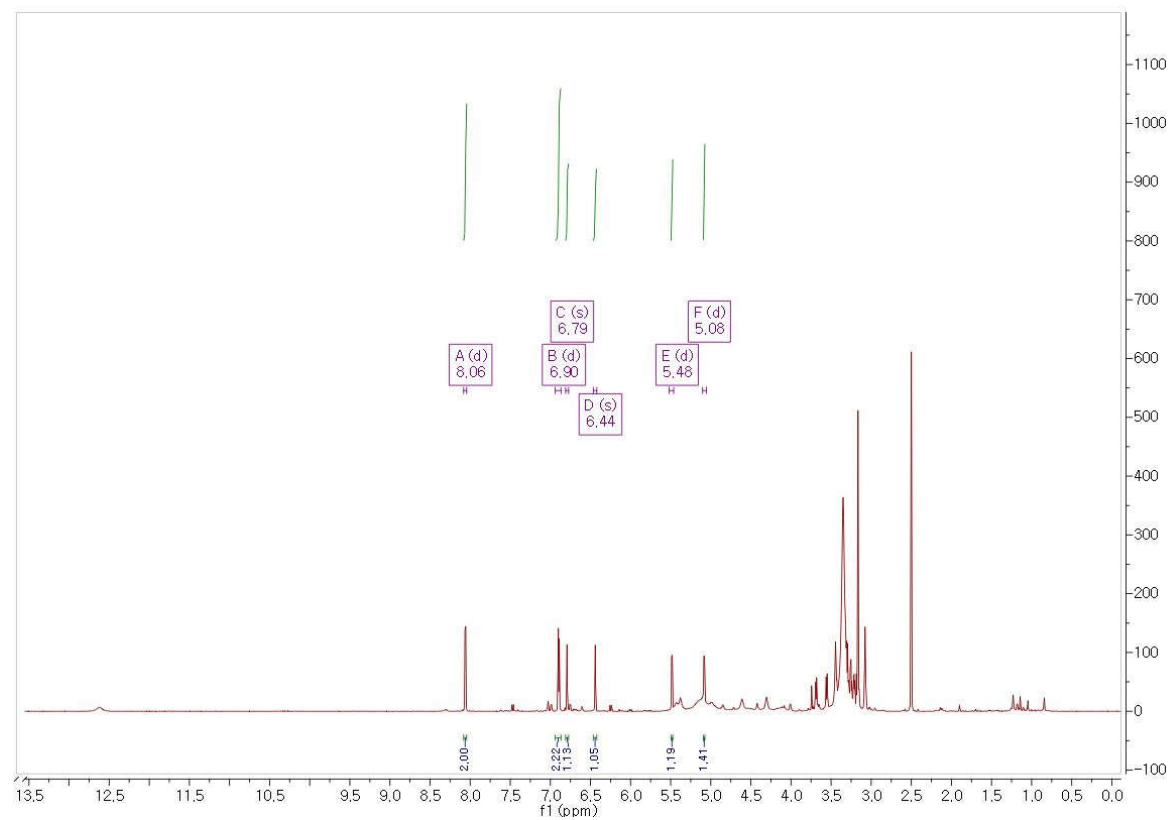


Figure S3. The HR-ESIMS data of **2**



Figure S4. The ^1H NMR spectrum of **2** (DMSO- d_6 , 850 MHz)

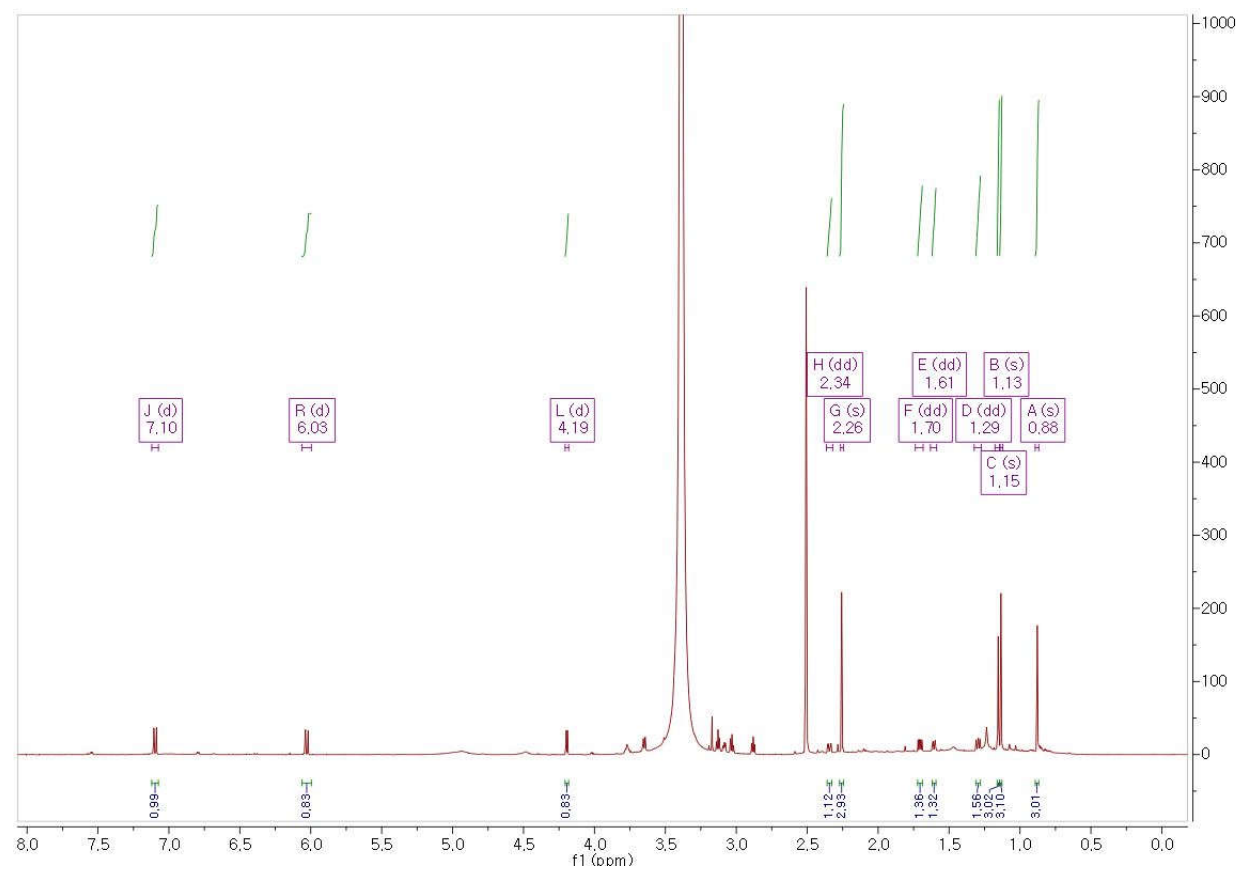


Figure S5. The HR-ESIMS data of **3**

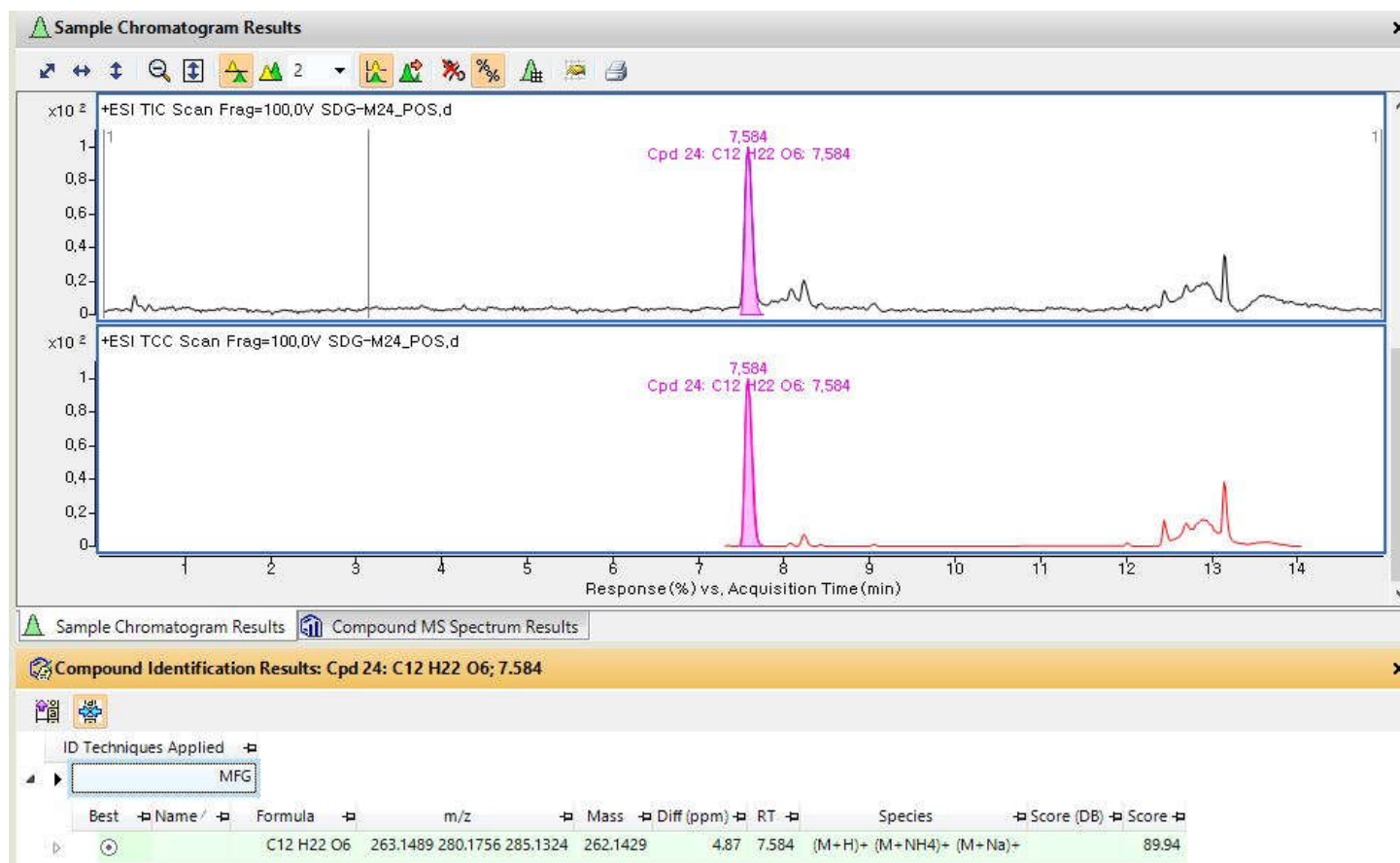


Figure S6. The ^1H NMR spectrum of **3** (DMSO- d_6 , 850 MHz)

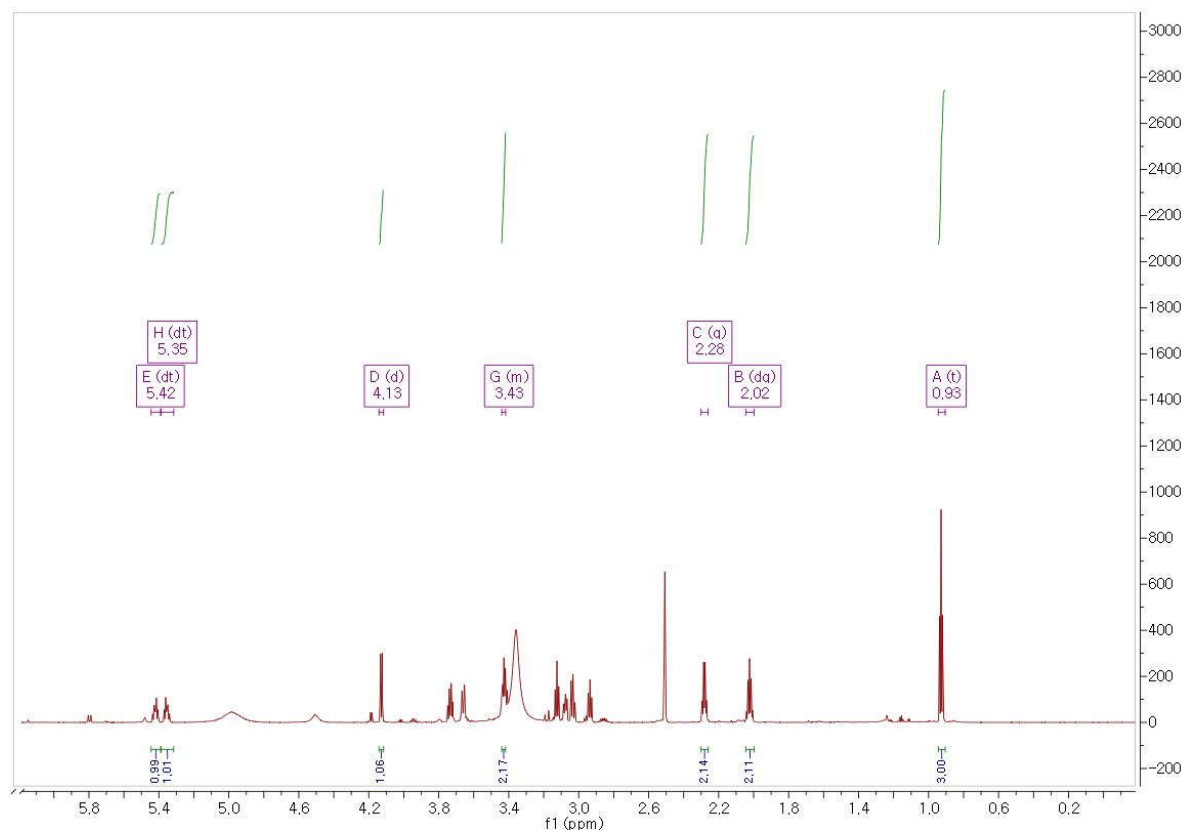


Figure S7. The HR-ESIMS data of **4**

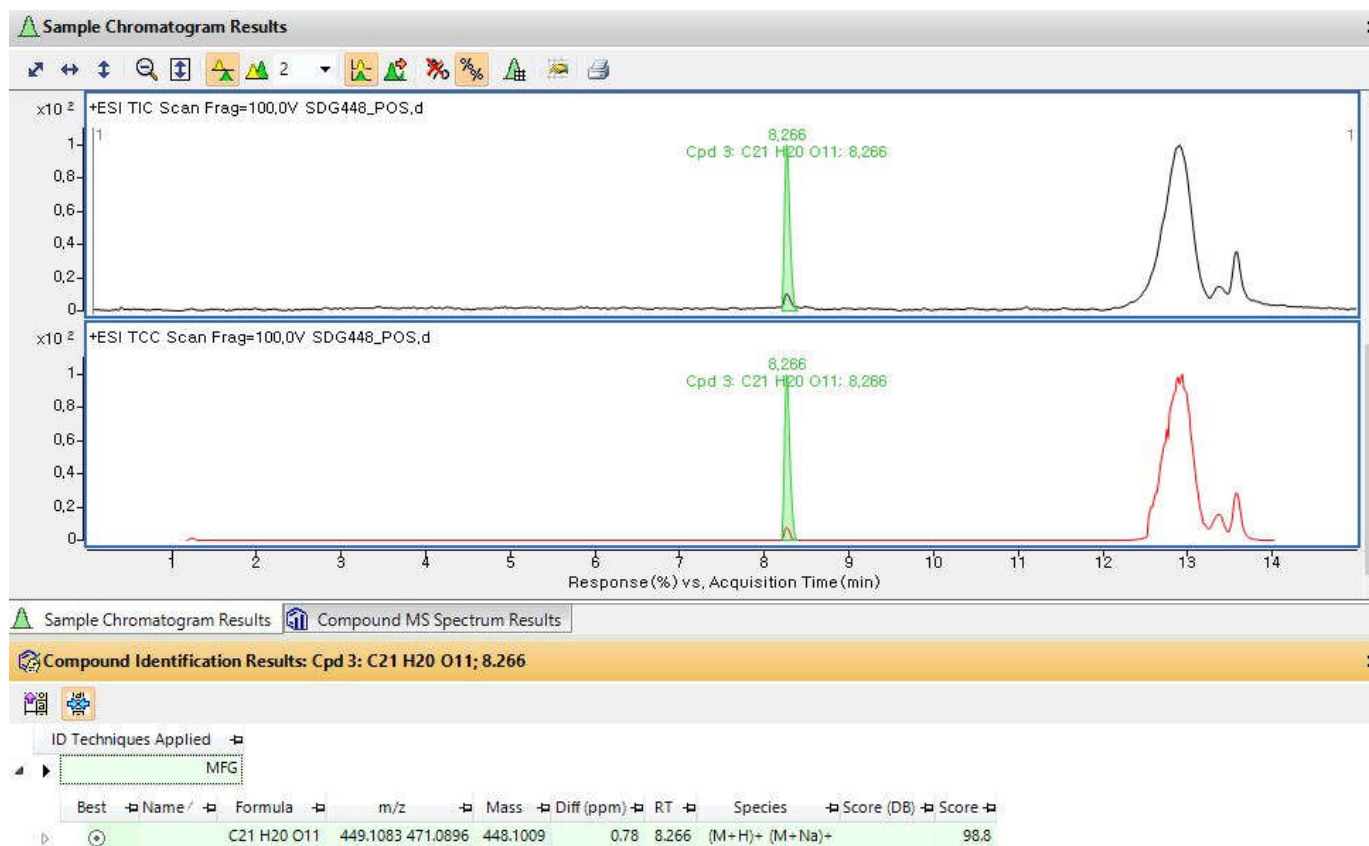


Figure S8. The ^1H NMR spectrum of **4** (DMSO- d_6 , 850 MHz)

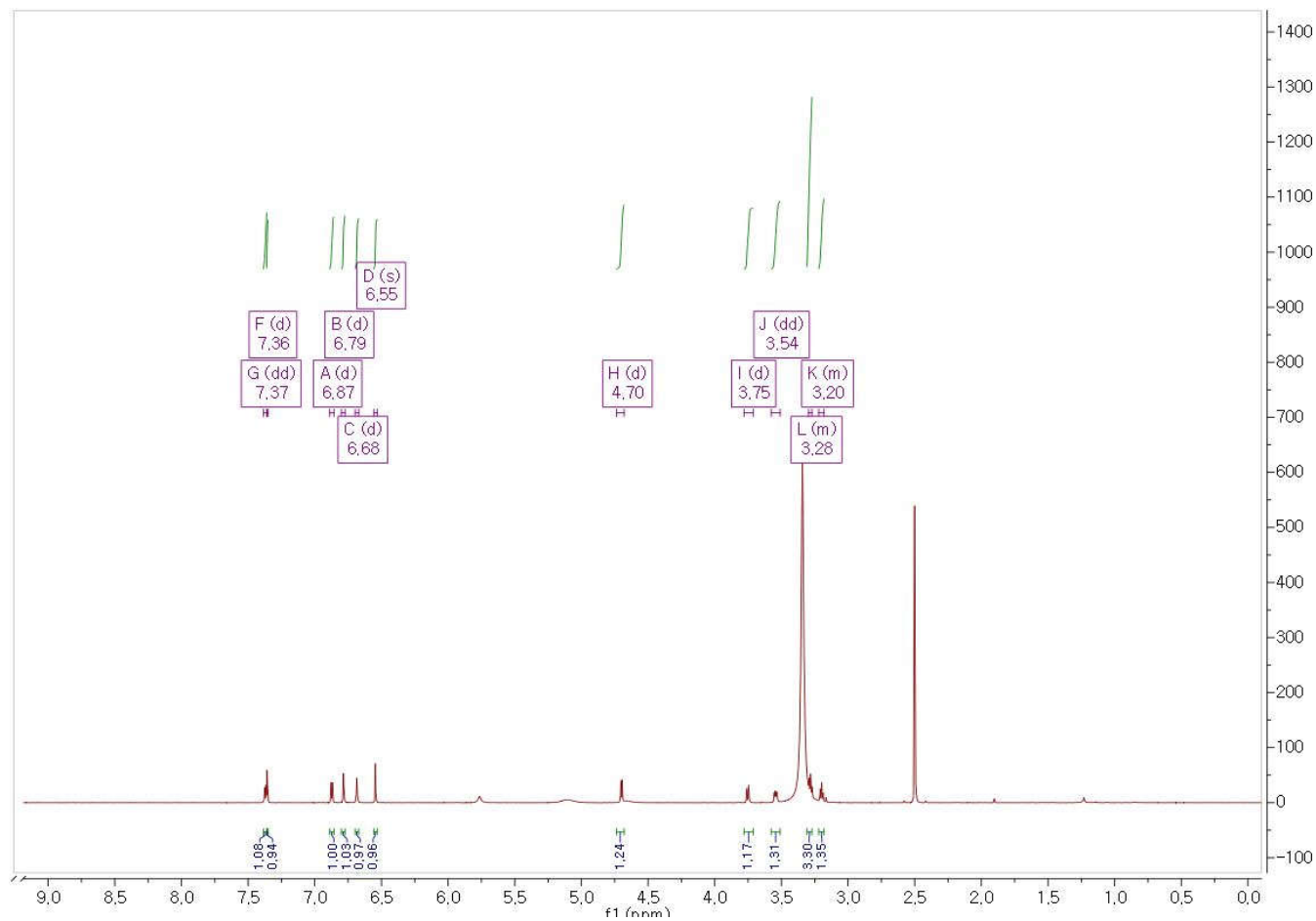


Figure S9. The HR-ESIMS data of **5**

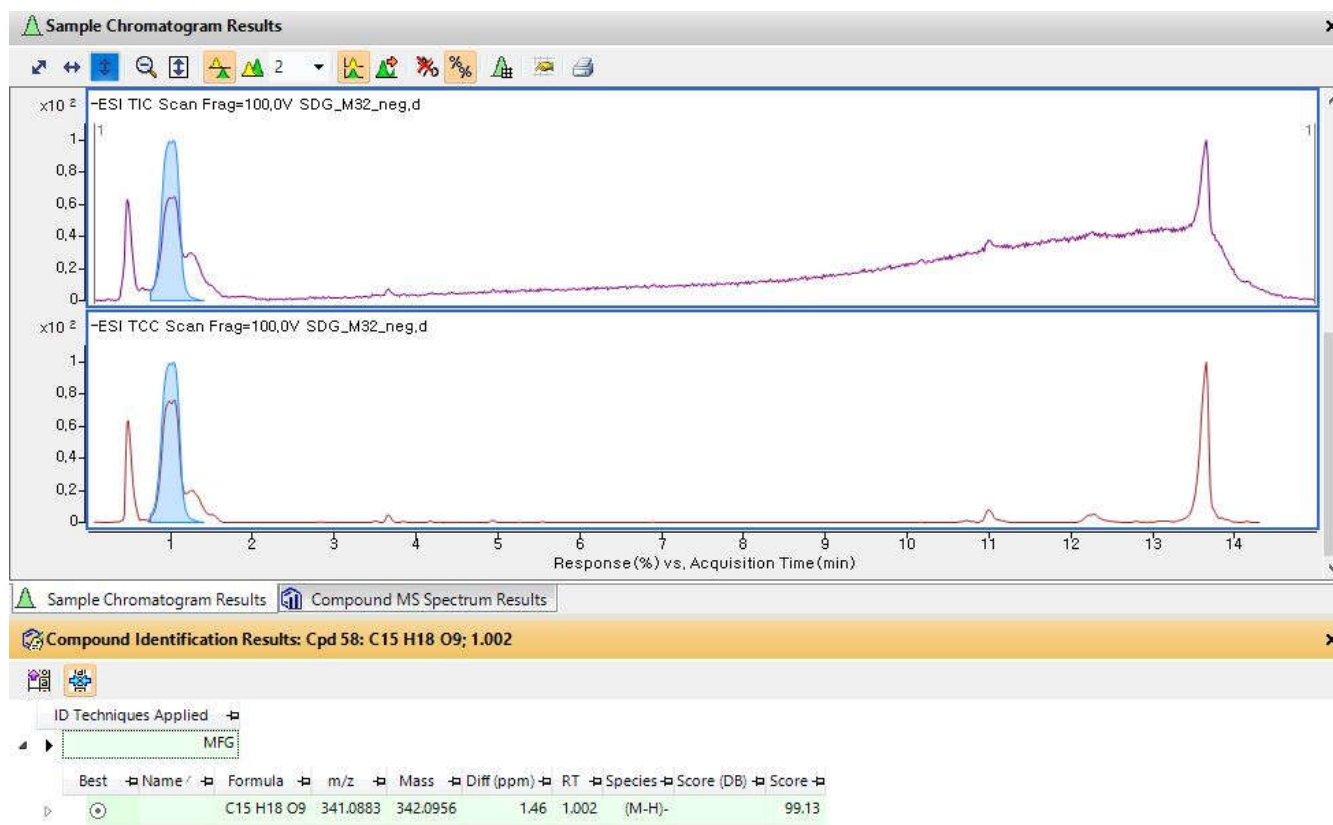


Figure S10. The ^1H NMR spectrum of **5** (CD_3OD , 850 MHz)

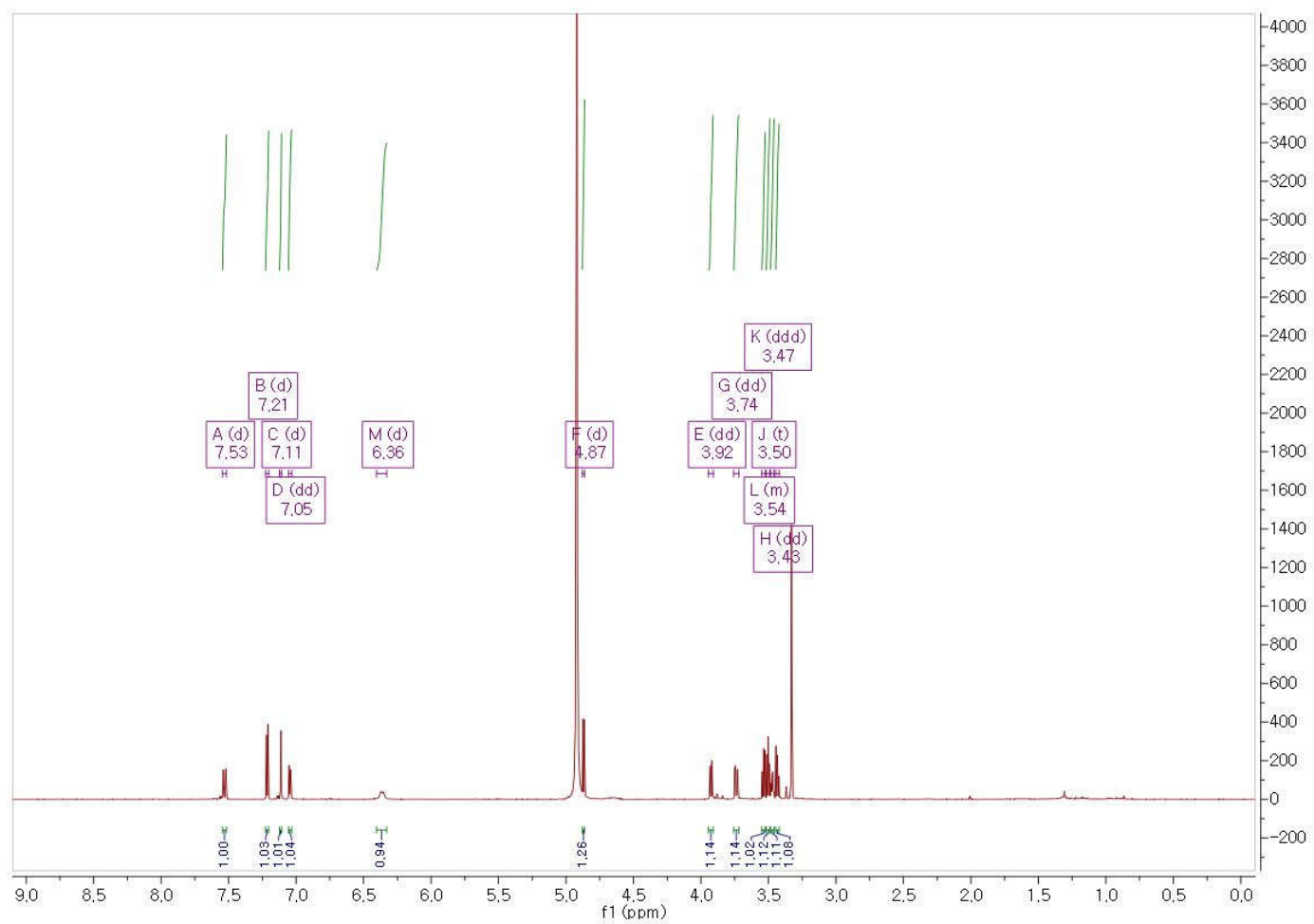


Figure S11. The HR-ESIMS data of **6**

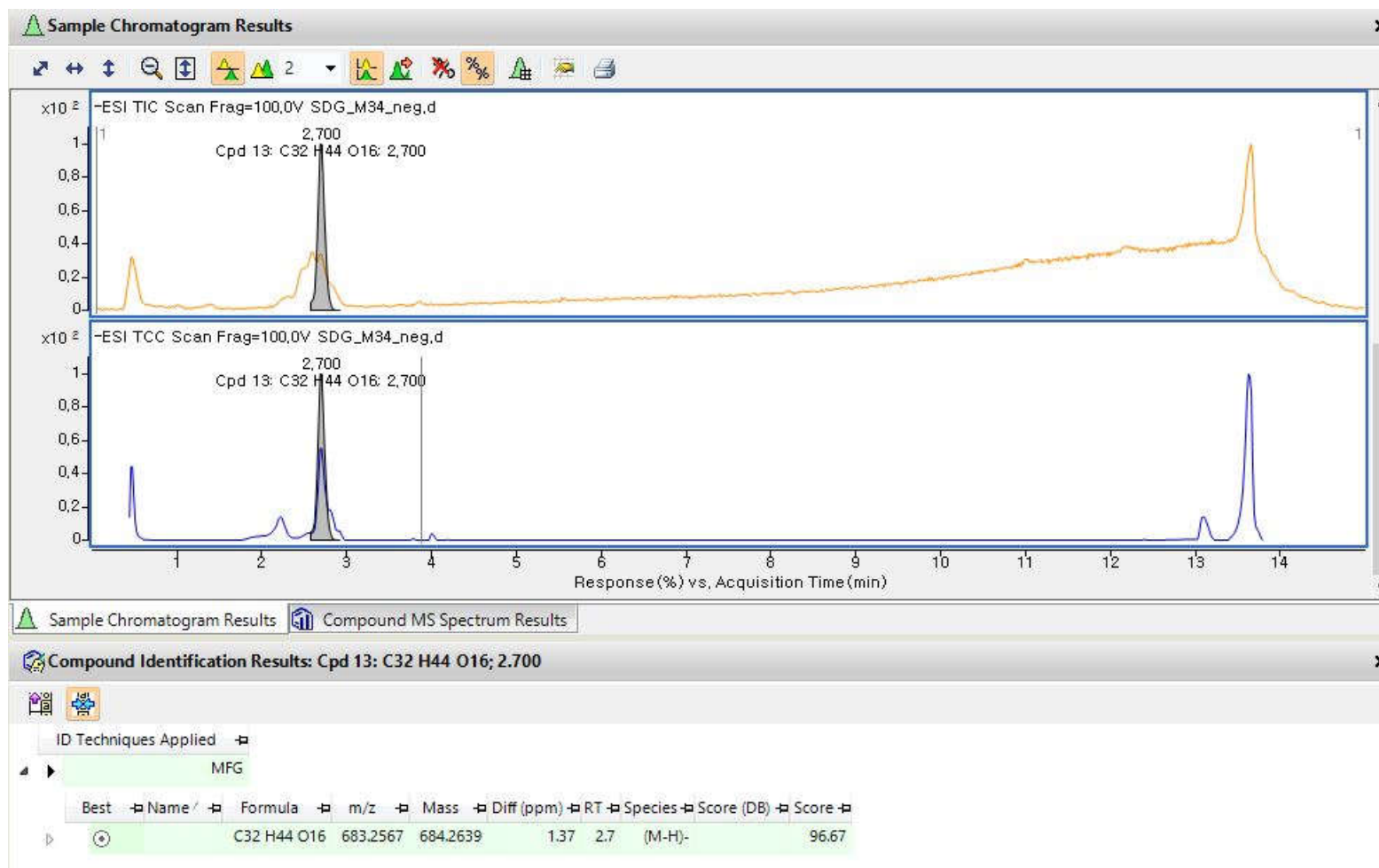


Figure S12. The ^1H NMR spectrum of **6** (CD_3OD , 850 MHz)

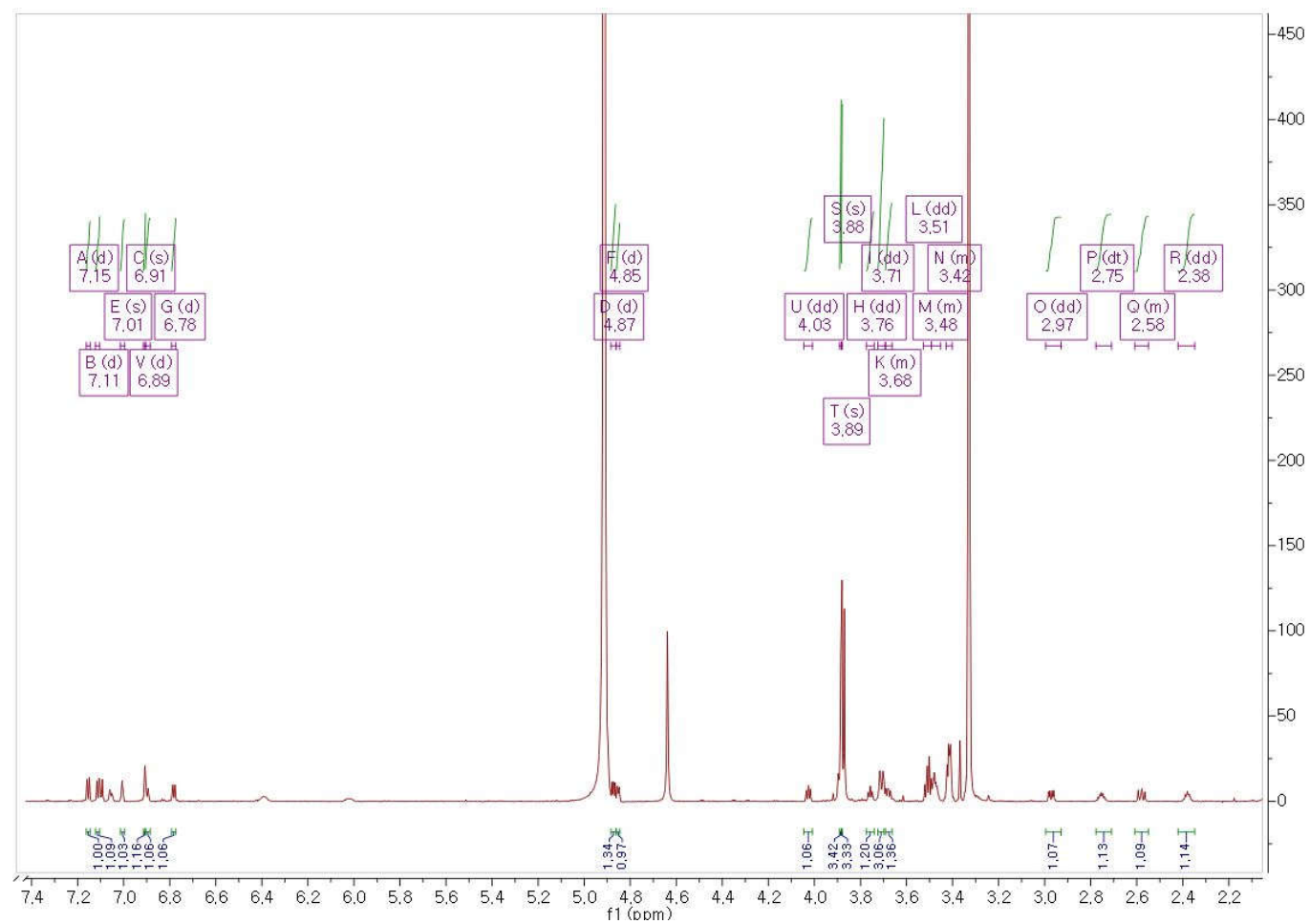


Figure S13. The HR-ESIMS data of **7**



Figure S14. The ^1H NMR spectrum of **7** (CD_3OD , 850 MHz)

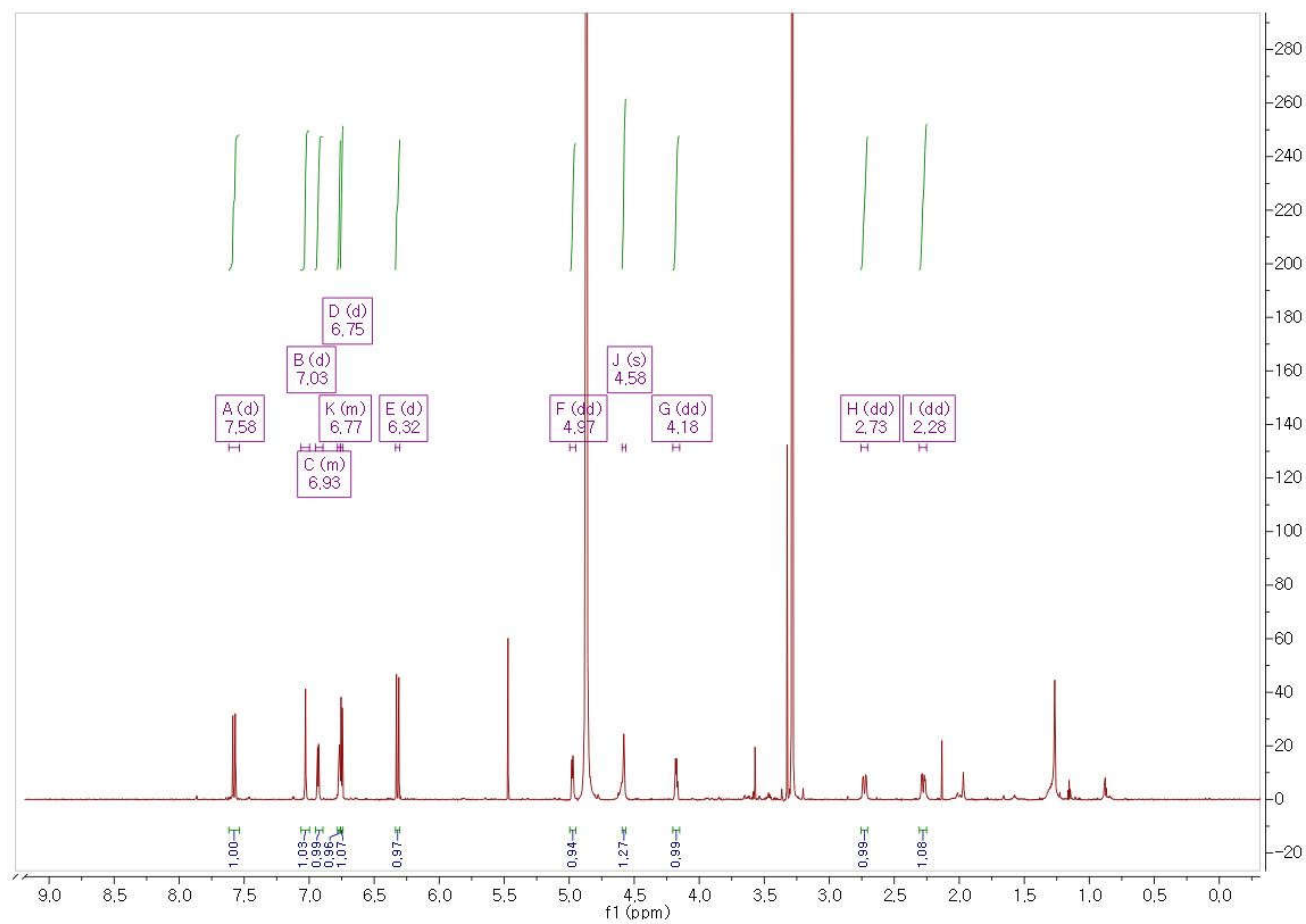


Figure S15. The HR-ESIMS data of **8**

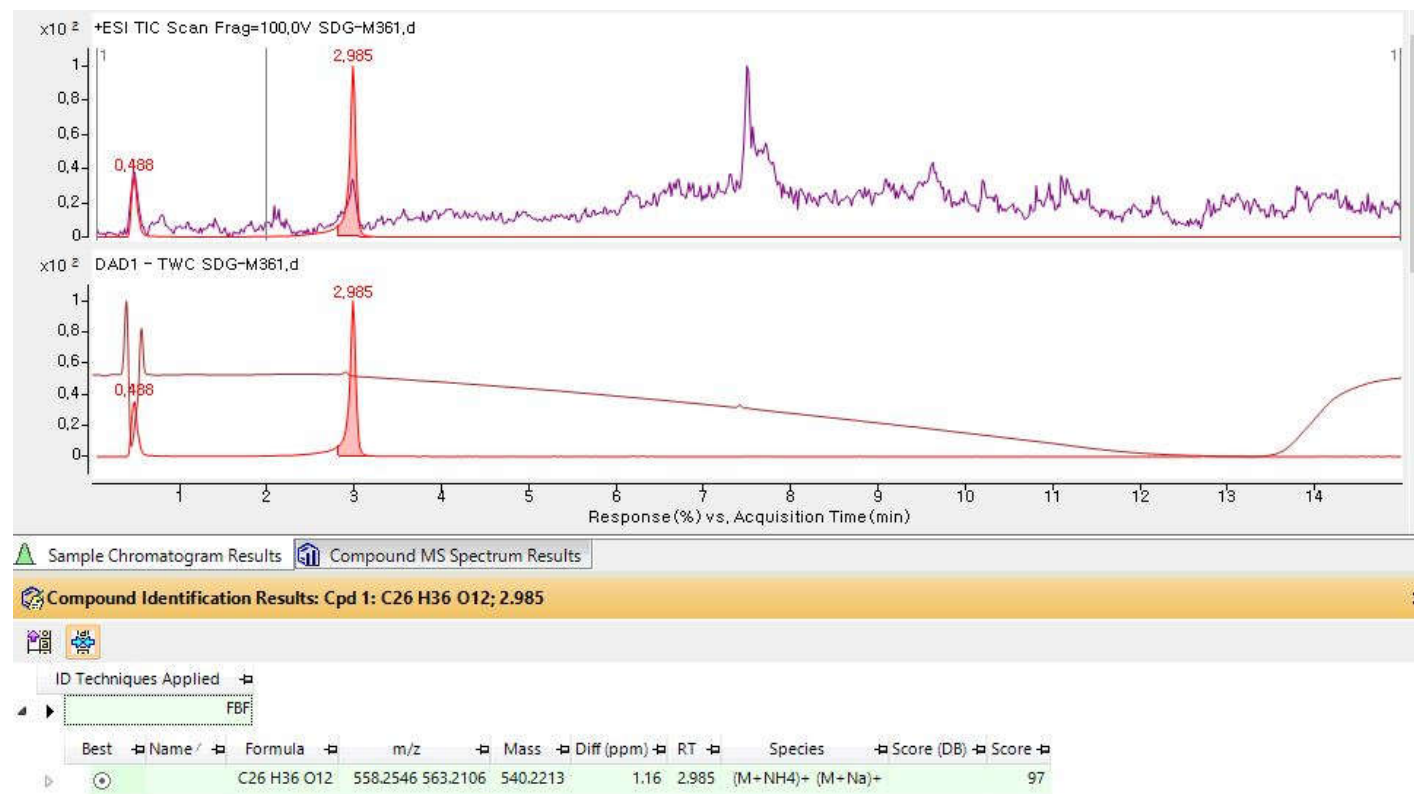


Figure S16. The ^1H NMR spectrum of **8** (CD_3OD , 850 MHz)

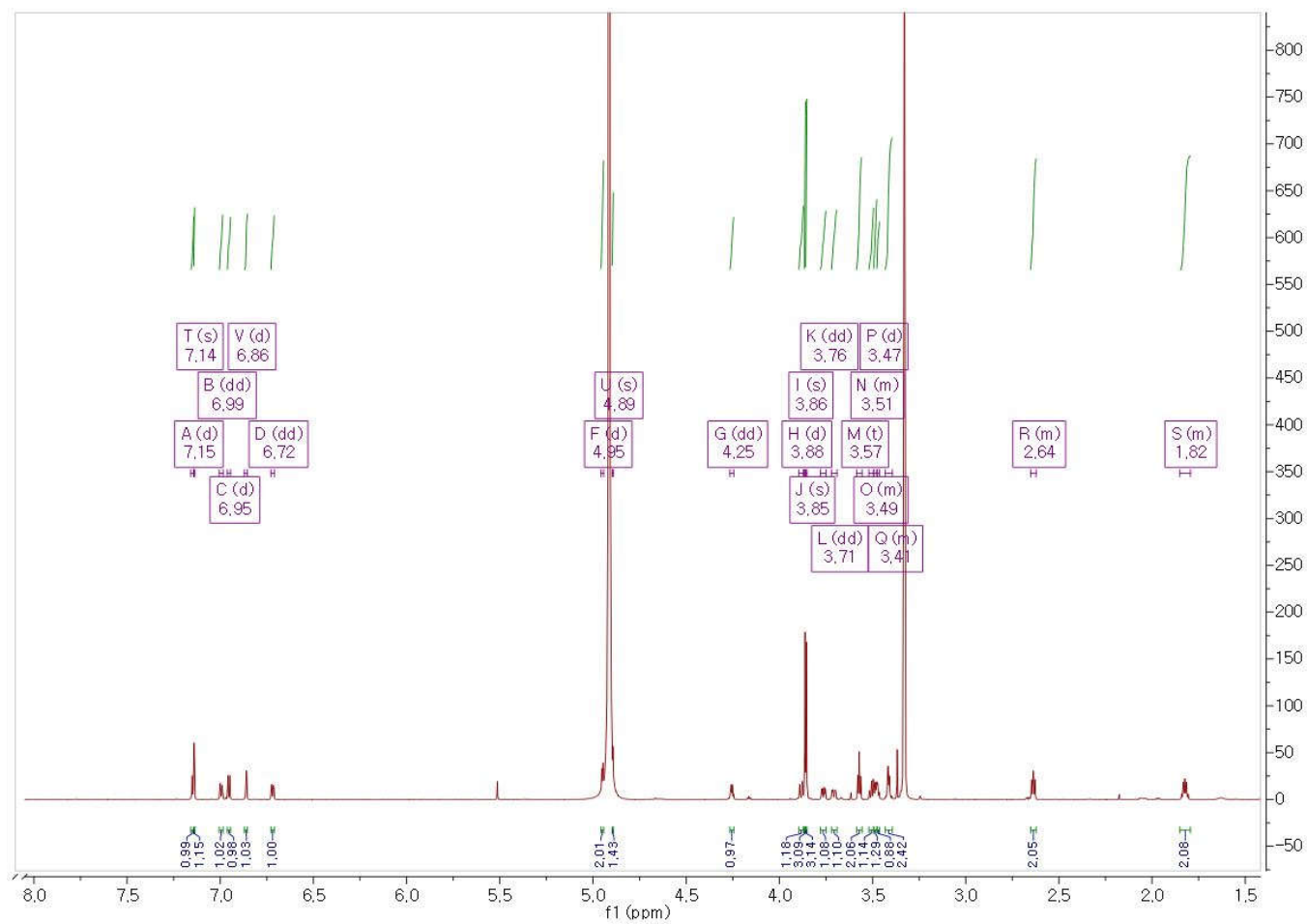


Figure S17. The HR-ESIMS data of **9**

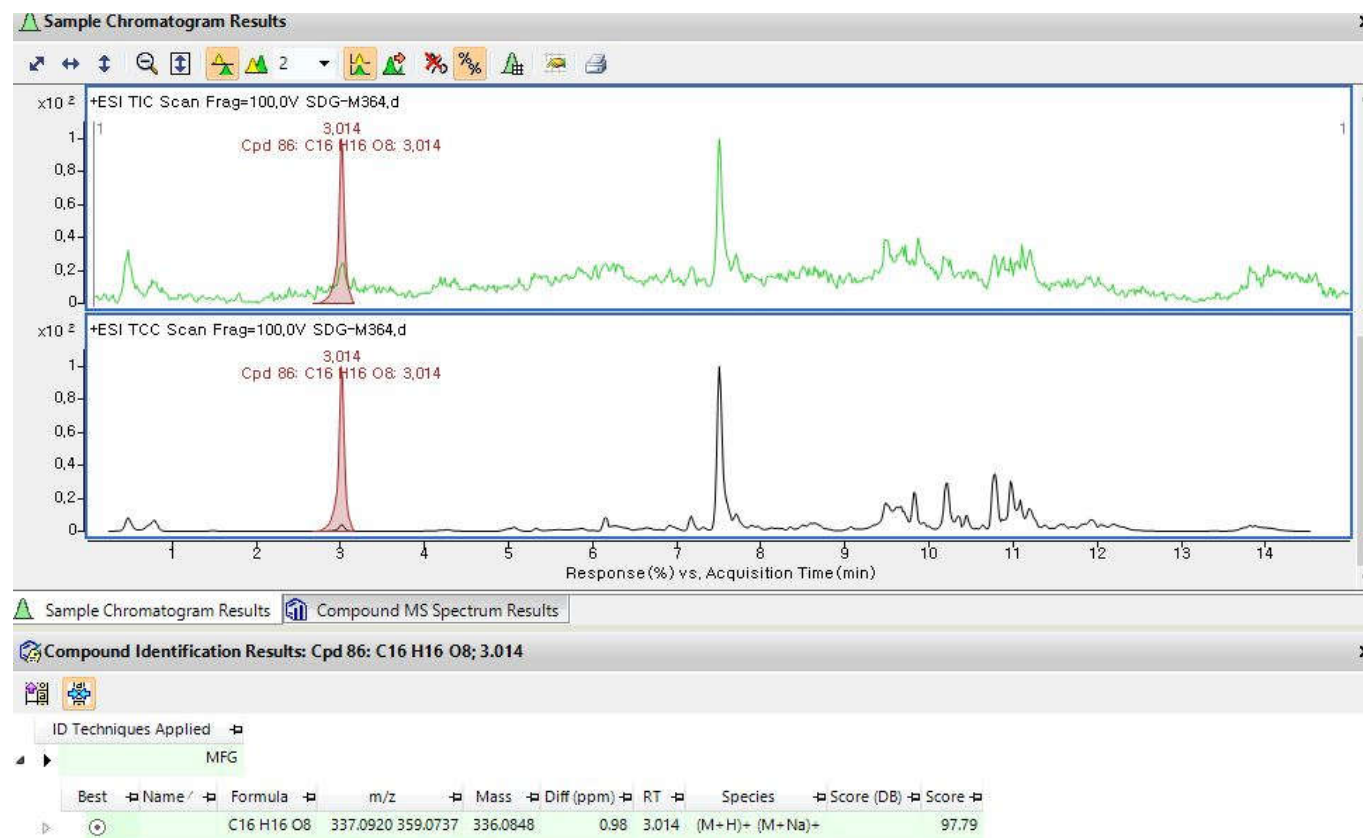


Figure S18. The ^1H NMR spectrum of **9** (CD_3OD , 850 MHz)

