

Supplementary Material

Lactones from the Sponge-Derived Fungus *Talaromyces rugulosus*

Lisa Küppers^{1,§}, **Weaam Ebrahim**^{1,2,§}, **Mona El-Neketi**², **Ferhat Can Özkaya**¹, **Attila Mándi**³, **Tibor Kurtán**³, **Raha S. Orfali**⁴, **Werner E. G. Müller**⁵, **Rudolf Hartmann**⁶, **Wenhan Lin**⁷, **Weiguo Song**⁸, **Zhen Liu**^{1,*}, **Peter Proksch**^{1,*}

¹ Institute of Pharmaceutical Biology and Biotechnology, Heinrich-Heine-Universität Düsseldorf, 40225 Düsseldorf, Germany; li-kue@gmx.de (L.K.); weaam.ebrahim@uni-duesseldorf.de (W.E.); fcanozkaya@gmail.com (F.C.Ö.)

² Department of Pharmacognosy, Faculty of Pharmacy, Mansoura University, Mansoura 35516, Egypt; monaneketi@yahoo.com (M.E.-N.)

³ Department of Organic Chemistry, University of Debrecen, Debrecen 4032, Hungary; mandi.attila@science.unideb.hu (A.M.); kurtan.tibor@science.unideb.hu (T.K.)

⁴ Department of Pharmacognosy, Faculty of Pharmacy, King Saud University, Riyadh, Saudi Arabia; rom2leen@gmail.com (R.S.O.)

⁵ Institute of Physiological Chemistry, Universitätsmedizin der Johannes Gutenberg-Universität Mainz, 55128 Mainz, Germany; wmueller@uni-mainz.de (W.E.G.M.)

⁶ Institute of Complex Systems: Strukturbiochemie, Forschungszentrum Juelich, 52428 Juelich, Germany; r.hartmann@fz-juelich.de (R.H.)

⁷ State Key Laboratory of Natural and Biomimetic Drugs, Peking University, Beijing 100191, People's Republic of China; whlin@bjmu.edu.cn (W.L.)

⁸ Fukang Pharma, North-East of Dongwaihuan Road, Dongcheng Industrial Area, 262700 Shouguang City, People's Republic of China; songwg@139.com (W.S.)

* Correspondence: zhenfeizi0@sina.com (Z.L.); proksch@uni-duesseldorf (P.P.); Tel.: +49-211-81-14163

§ L. Küppers and W. Ebrahim contributed equally to this study

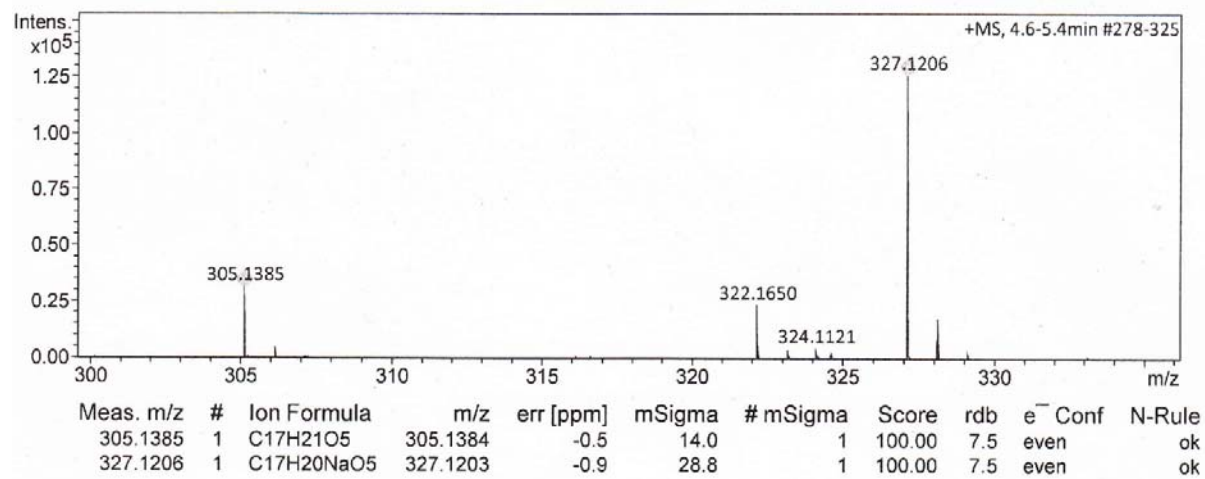
Table of Contents

	Page
S1. HRESIMS spectrum of compound 1.	6
S2. ¹ H NMR (300 MHz, CD ₃ OD) spectrum of compound 1.	7
S3. ¹³ C NMR (75 MHz, CD ₃ OD) spectrum of compound 1.	8
S4. ¹ H- ¹ H COSY (300 MHz, CD ₃ OD) spectrum of compound 1.	9
S5. HSQC (300 and 75 MHz, CD ₃ OD) spectrum of compound 1.	10
S6. HMBC (300 and 75 MHz, CD ₃ OD) spectrum of compound 1.	11
S7. HRESIMS spectrum of compound 2.	12
S8. ¹ H NMR (300 MHz, CD ₃ OD) spectrum of compound 2.	13
S9. ¹³ C NMR (75 MHz, CD ₃ OD) spectrum of compound 2.	14
S10. ¹ H- ¹ H COSY (300 MHz, CD ₃ OD) spectrum of compound 2.	15
S11. HSQC (300 and 75 MHz, CD ₃ OD) spectrum of compound 2.	16
S12. HMBC (300 and 75 MHz, CD ₃ OD) spectrum of compound 2.	17
S13. HRESIMS spectrum of compound 3.	18
S14. ¹ H NMR (300 MHz, CD ₃ OD) spectrum of compound 3.	19
S15. ¹³ C NMR (75 MHz, CD ₃ OD) spectrum of compound 3.	20
S16. ¹ H- ¹ H COSY (300 MHz, CD ₃ OD) spectrum of compound 3.	21
S17. HSQC (300 and 75 MHz, CD ₃ OD) spectrum of compound 3.	22
S18. HMBC (300 and 75 MHz, CD ₃ OD) spectrum of compound 3.	23
S19. HRESIMS spectrum of compound 6.	24
S20. ¹ H NMR (600 MHz, CD ₃ OD) spectrum of compound 6.	25
S21. ¹³ C NMR (150 MHz, CD ₃ OD) spectrum of compound 6.	26
S22. ¹ H- ¹ H COSY (600 MHz, CD ₃ OD) spectrum of compound 6.	27
S23. HSQC (600 and 150 MHz, CD ₃ OD) spectrum of compound 6.	28
S24. HMBC (600 and 150 MHz, CD ₃ OD) spectrum of compound 6.	29
S25. ROESY (600 MHz, CD ₃ OD) spectrum of compound 6.	30
S26. HRESIMS spectrum of compound 7.	31
S27. ¹ H NMR (600 MHz, CD ₃ OD) spectrum of compound 7.	32
S28. ¹ H NMR (600 MHz, CD ₃ COCD ₃) spectrum of compound 7.	33

S29. ^1H - ^1H COSY (600 MHz, CD_3COCD_3) spectrum of compound 7 .	34
S30. HSQC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 7 .	35
S31. HMBC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 7 .	36
S32. ROESY (600 MHz, CD_3COCD_3) spectrum of compound 7	37
S33. HRESIMS spectrum of compound 8 .	38
S34. ^1H NMR (600 MHz, CD_3COCD_3) spectrum of compound 8 .	39
S35. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 8 .	40
S36. ^1H - ^1H COSY (600 MHz, CD_3COCD_3) spectrum of compound 8 .	41
S37. HSQC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 8 .	42
S38. HMBC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 8 .	43
S39. ROESY (600 MHz, CD_3COCD_3) spectrum of compound 8 .	44
S40. HRESIMS spectrum of compound 9 .	45
S41. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 9 .	46
S42. ^1H - ^1H COSY (600 MHz, CD_3OD) spectrum of compound 9 .	47
S43. HSQC (600 and 150 MHz, CD_3OD) spectrum of compound 9 .	48
S44. HMBC (600 and 150 MHz, CD_3OD) spectrum of compound 9 .	49
S45. ROESY (600 MHz, CD_3OD) spectrum of compound 9 .	50
S46. HRESIMS spectrum of compound 10 .	51
S47. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 10 .	52
S48. ^1H - ^1H COSY (600 MHz, CD_3OD) spectrum of compound 10 .	53
S49. HSQC (600 and 150 MHz, CD_3OD) spectrum of compound 10 .	54
S50. HMBC (600 and 150 MHz, CD_3OD) spectrum of compound 10 .	55
S51. ROESY (600 MHz, CD_3OD) spectrum of compound 10 .	56
S52. HRESIMS spectrum of compound 11 .	57
S53. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 11 .	58
S54. ^{13}C NMR (75 MHz, CD_3OD) spectrum of compound 11 .	59
S55. ^1H - ^1H COSY (300 MHz, CD_3OD) spectrum of compound 11 .	60
S56. HSQC (300 and 75 MHz, CD_3OD) spectrum of compound 11 .	61
S57. HMBC (300 and 75 MHz, CD_3OD) spectrum of compound 11 .	62
S58. ROESY (300 MHz, CD_3OD) spectrum of compound 11 .	63
S59. HRESIMS spectrum of compound 12 .	64

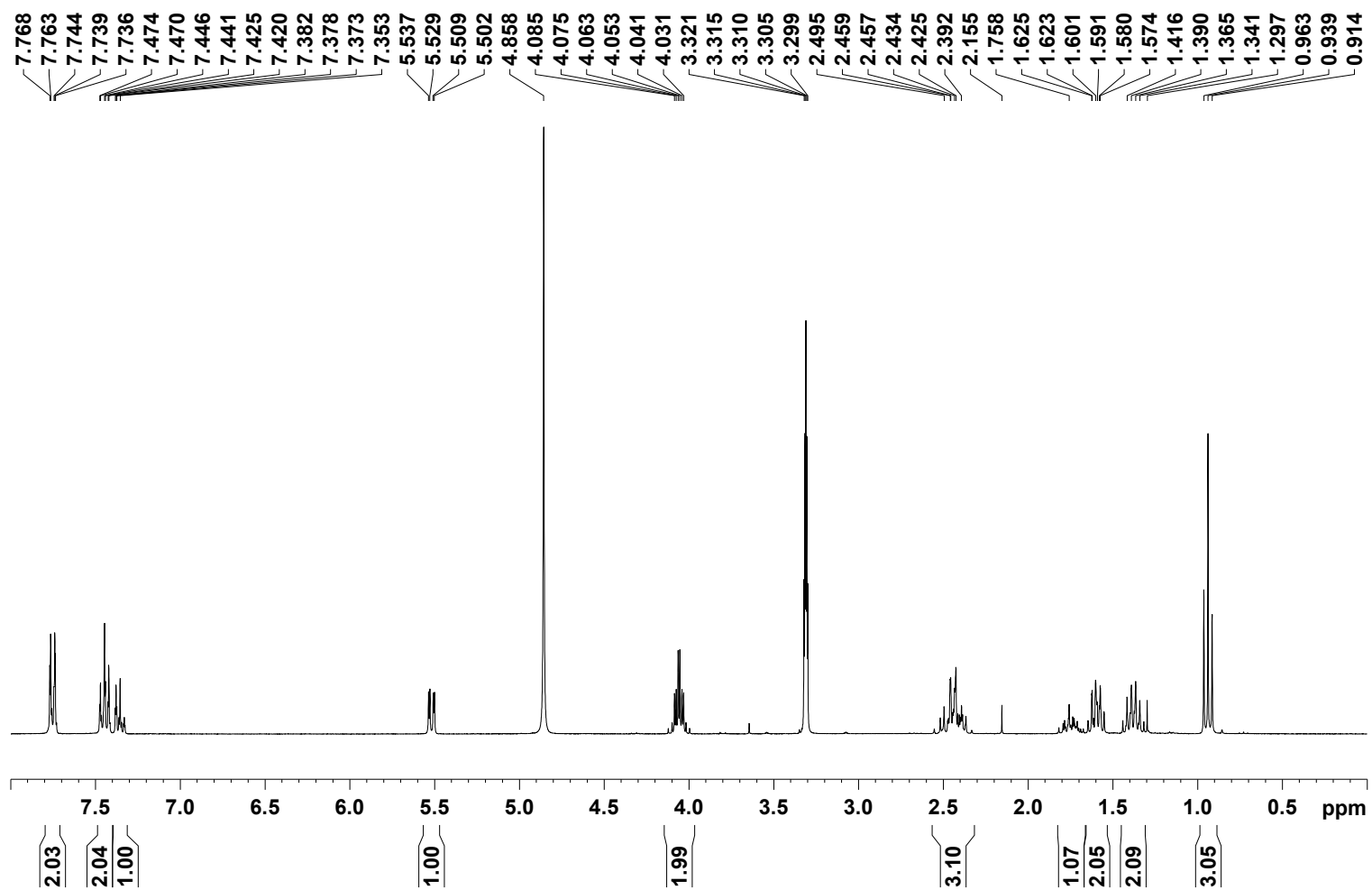
S60. ^1H NMR (500 MHz, CD_3OD) spectrum of compound 12 .	65
S61. ^{13}C NMR (125 MHz, CD_3OD) spectrum of compound 12 .	66
S62. ^1H - ^1H COSY (500 MHz, CD_3OD) spectrum of compound 12 .	67
S63. HSQC (500 and 125 MHz, CD_3OD) spectrum of compound 12 .	68
S64. HMBC (500 and 125 MHz, CD_3OD) spectrum of compound 12 .	69
S65. ROESY (500 MHz, CD_3OD) spectrum of compound 12 .	70
S66. HRESIMS spectrum of compound 13 .	71
S67. ^1H NMR (700 MHz, CD_3OD) spectrum of compound 13 .	72
S68. ^{13}C NMR (175 MHz, CD_3OD) spectrum of compound 13 .	73
S69. ^1H - ^1H TOCSY NMR (700 MHz, CD_3OD) spectrum of compound 13 .	74
S70. HSQC (700 and 175 MHz, CD_3OD) spectrum of compound 13 .	75
S71. HMBC (700 and 175 MHz, CD_3OD) spectrum of compound 13 .	76
S72. ROESY (700 MHz, CD_3OD) spectrum of compound 13 .	77
S73. HRESIMS spectrum of compound 14 .	78
S74. ^1H NMR (700 MHz, CD_3OD) spectrum of compound 14 .	79
S75. ^{13}C NMR (175 MHz, CD_3OD) spectrum of compound 14 .	80
S76. ^1H - ^1H TOCSY NMR (700 MHz, CD_3OD) spectrum of compound 14 .	81
S77. HSQC (700 and 175 MHz, CD_3OD) spectrum of compound 14 .	82
S78. HMBC (700 and 175 MHz, CD_3OD) spectrum of compound 14 .	83
S79. ROESY (700 MHz, CD_3OD) spectrum of compound 14 .	84
S80. HRESIMS spectrum of compound 15 .	85
S81. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 15 .	86
S82. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) spectrum of compound 15 .	87
S83. ^{13}C NMR (75 MHz, $\text{DMSO}-d_6$) spectrum of compound 15 .	88
S84. ^1H - ^1H COSY (300 MHz, $\text{DMSO}-d_6$) spectrum of compound 15 .	89
S85. HSQC (300 and 75 MHz, $\text{DMSO}-d_6$) spectrum of compound 15 .	90
S86. HMBC (300 and 75 MHz, $\text{DMSO}-d_6$) spectrum of compound 15 .	91
S87. HRESIMS spectrum of compound 16 .	92
S88. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 16 .	93
S89. ^1H - ^1H COSY (300 MHz, CD_3OD) spectrum of compound 16 .	94
S90. HSQC (300 and 75 MHz, CD_3OD) spectrum of compound 16 .	95

S91. HMBC (300 and 75 MHz, CD ₃ OD) spectrum of compound 16 .	96
S92. Experimental ECD spectrum of 9 in MeCN compared with the Boltzmann-weighted B3LYP/TZVP PCM/MeCN ECD spectrum of (3 <i>S</i> ,7 <i>S</i>)- 9 computed for the B97D/TZVP PCM/MeCN conformers.	97
S93. Experimental ECD spectrum of 1 in MeCN.	98
S94. Experimental ECD spectrum of 2 in MeCN.	99
S95. Experimental ECD spectrum of 5 in MeCN.	100
S96. Experimental ECD spectrum of 6 in MeCN.	101
S97. Experimental ECD spectrum of 7 in MeCN.	102
S98. Experimental ECD spectrum of 8 in MeCN.	103
S99. Experimental ECD spectrum of 9 in MeCN.	104
S100. Experimental ECD spectrum of 10 in MeCN.	105
S101. Experimental ECD spectrum of 11 in MeCN.	106
S102. Experimental ECD spectrum of 12 in MeCN.	107
S103. Experimental ECD spectrum of 13 in MeCN.	108
S104. Experimental ECD spectrum of 14 in MeCN.	109
S105. Experimental ECD spectrum of 15 in MeCN.	110
S106. Experimental ECD spectrum of 16 in MeCN.	111



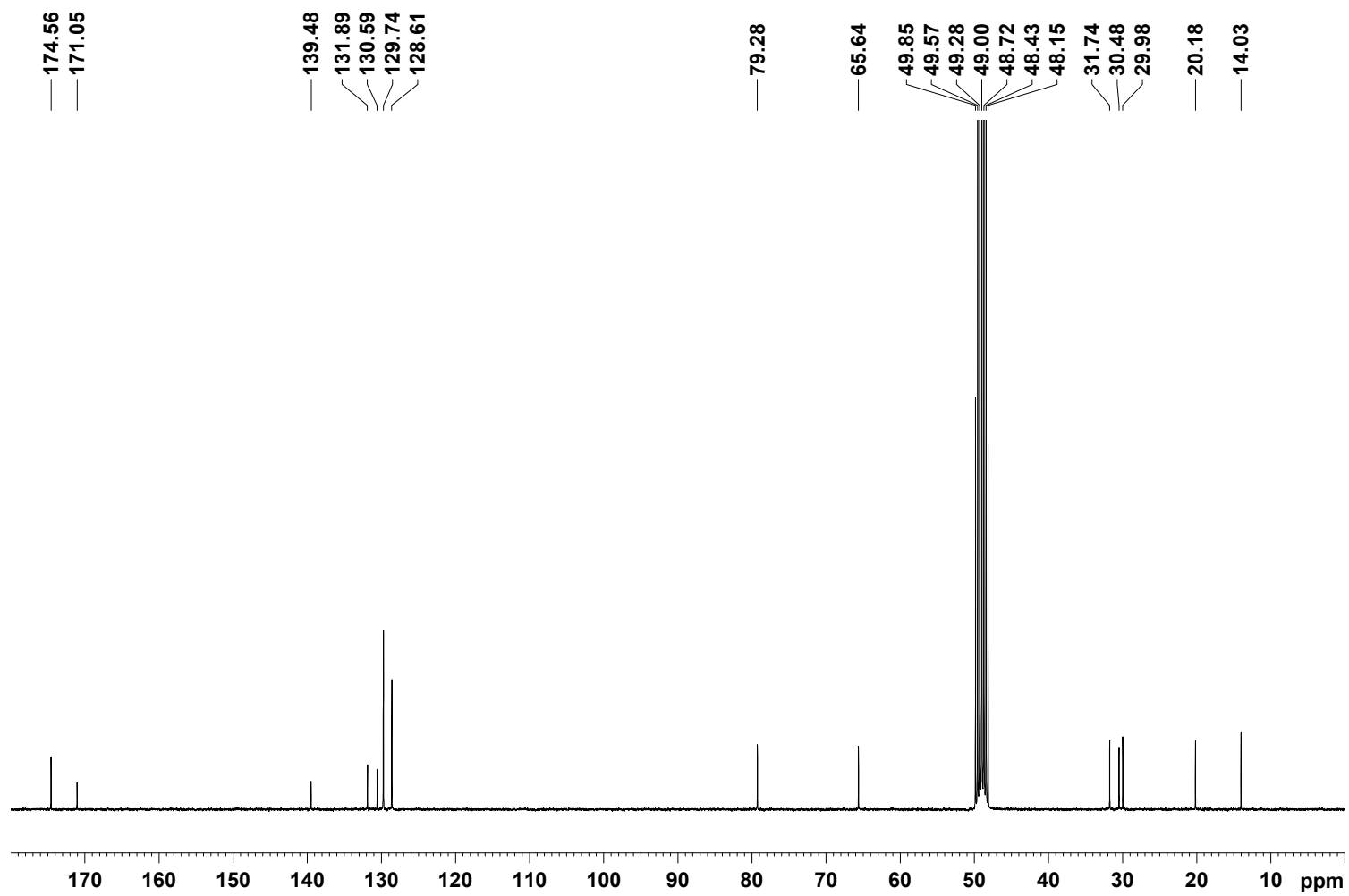
S1. HRESIMS spectrum of compound **1**.

Tal60ES5-3-2



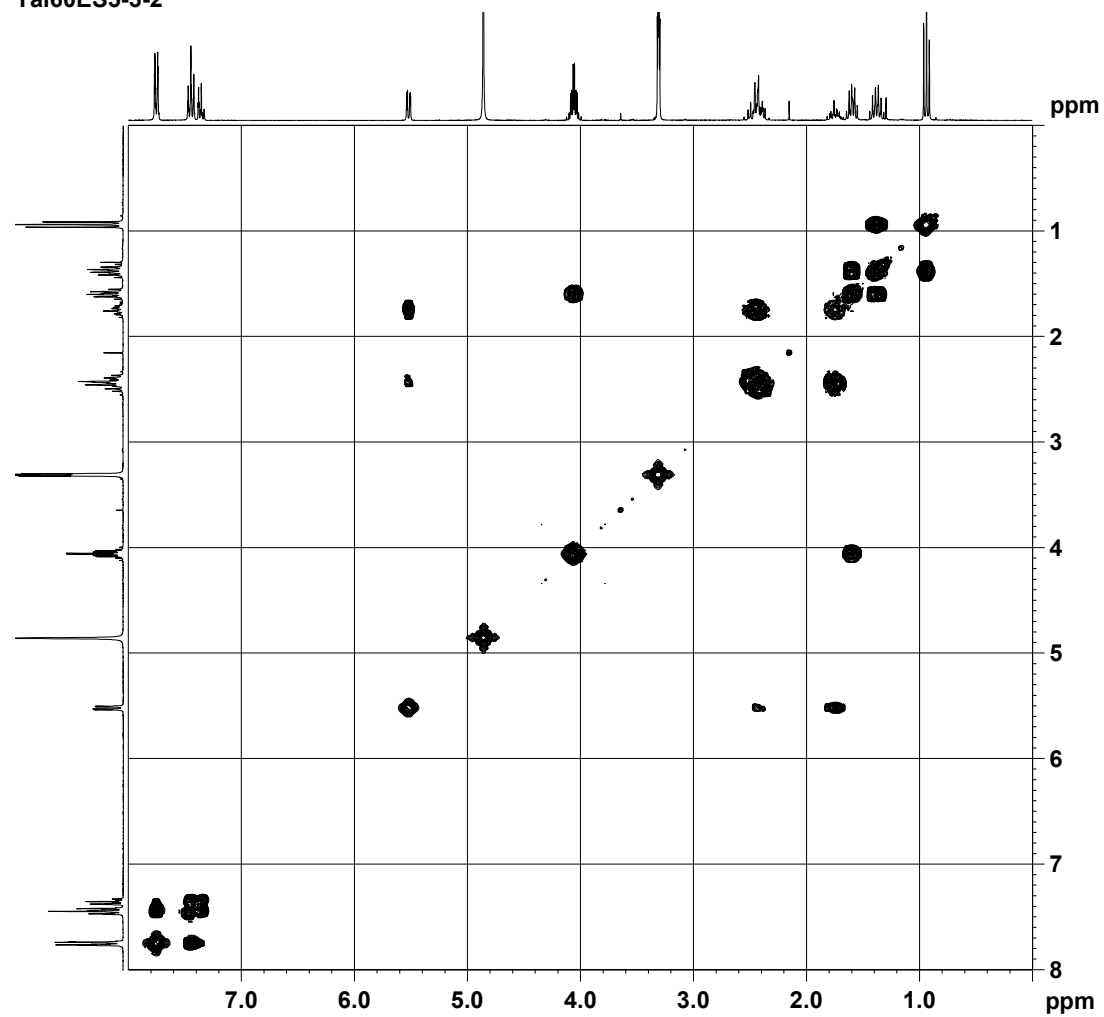
S2. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 1.

Tal60ES5-3-2



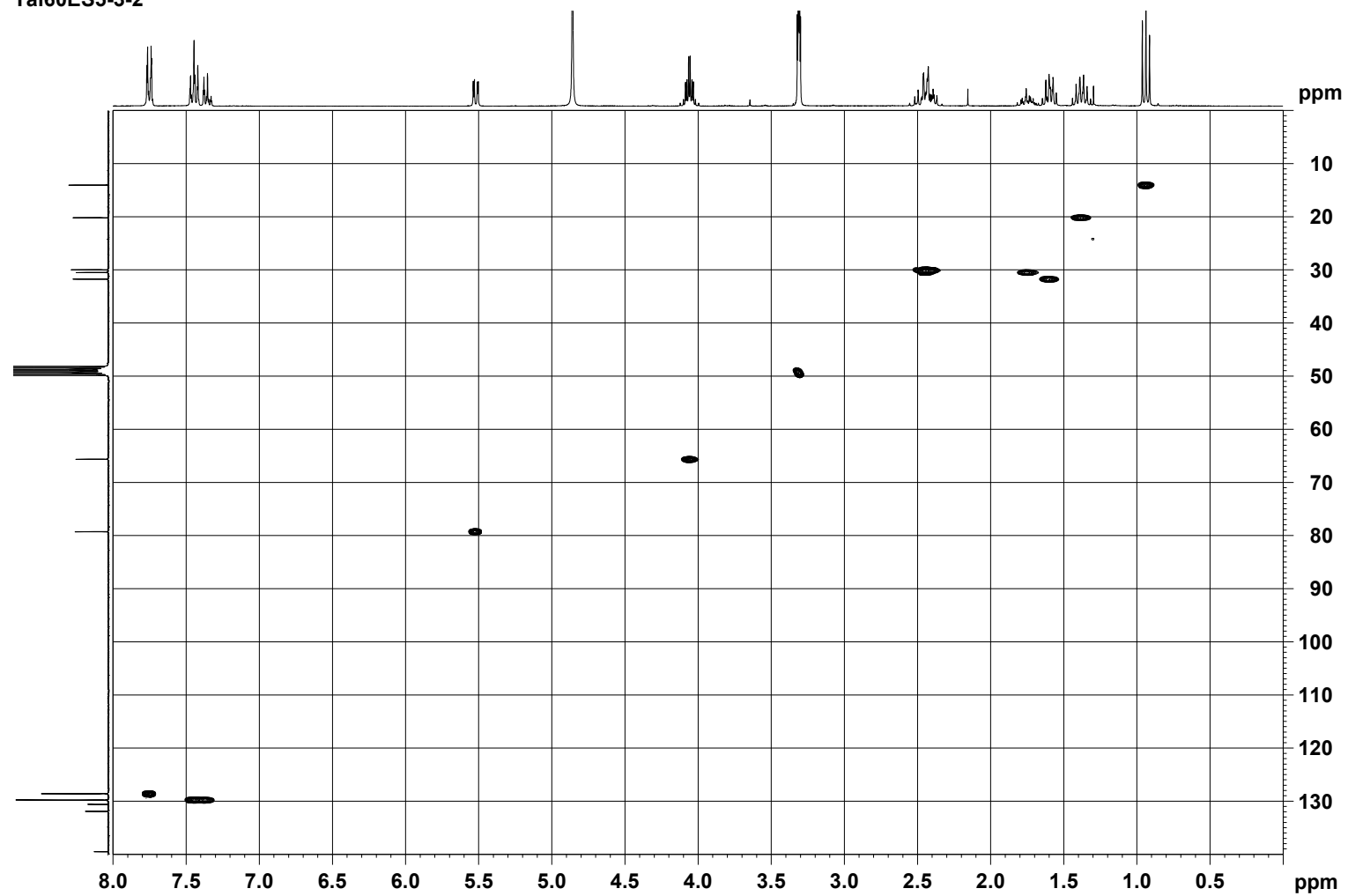
S3. ^{13}C NMR (75 MHz, CD_3OD) spectrum of compound **1**.

Tal60ES5-3-2



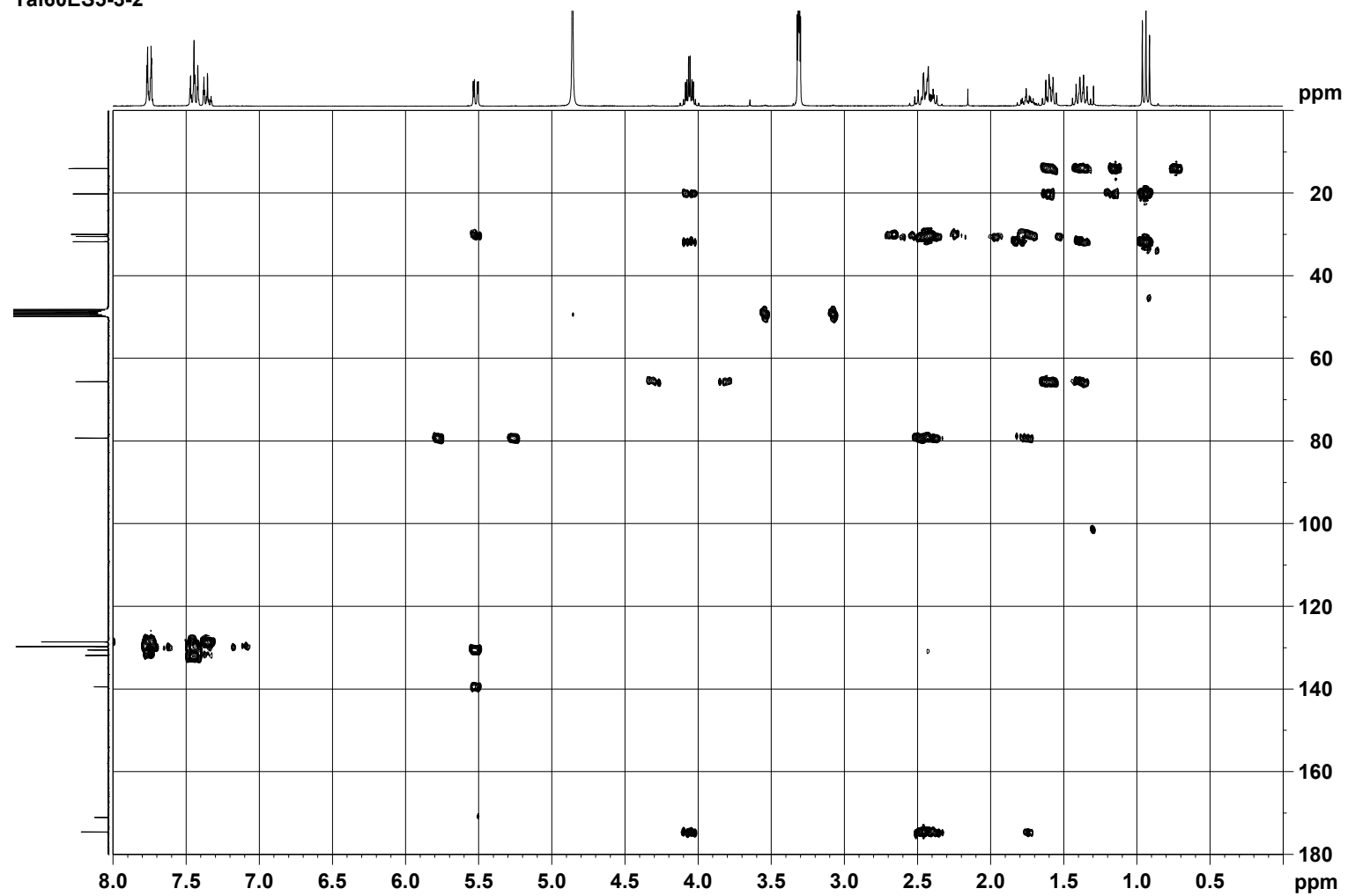
S4. ¹H-¹H COSY (300 MHz, CD₃OD) spectrum of compound 1.

Tal60ES5-3-2

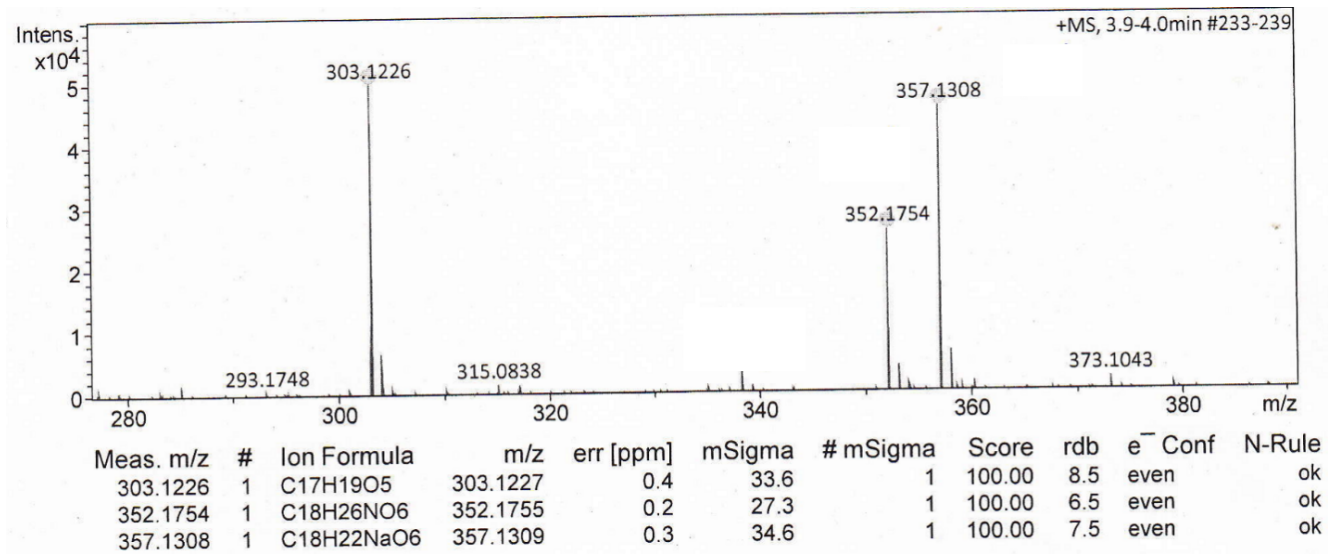


S5. HSQC (300 and 75 MHz, CD_3OD) spectrum of compound 1.

Tal60ES5-3-2

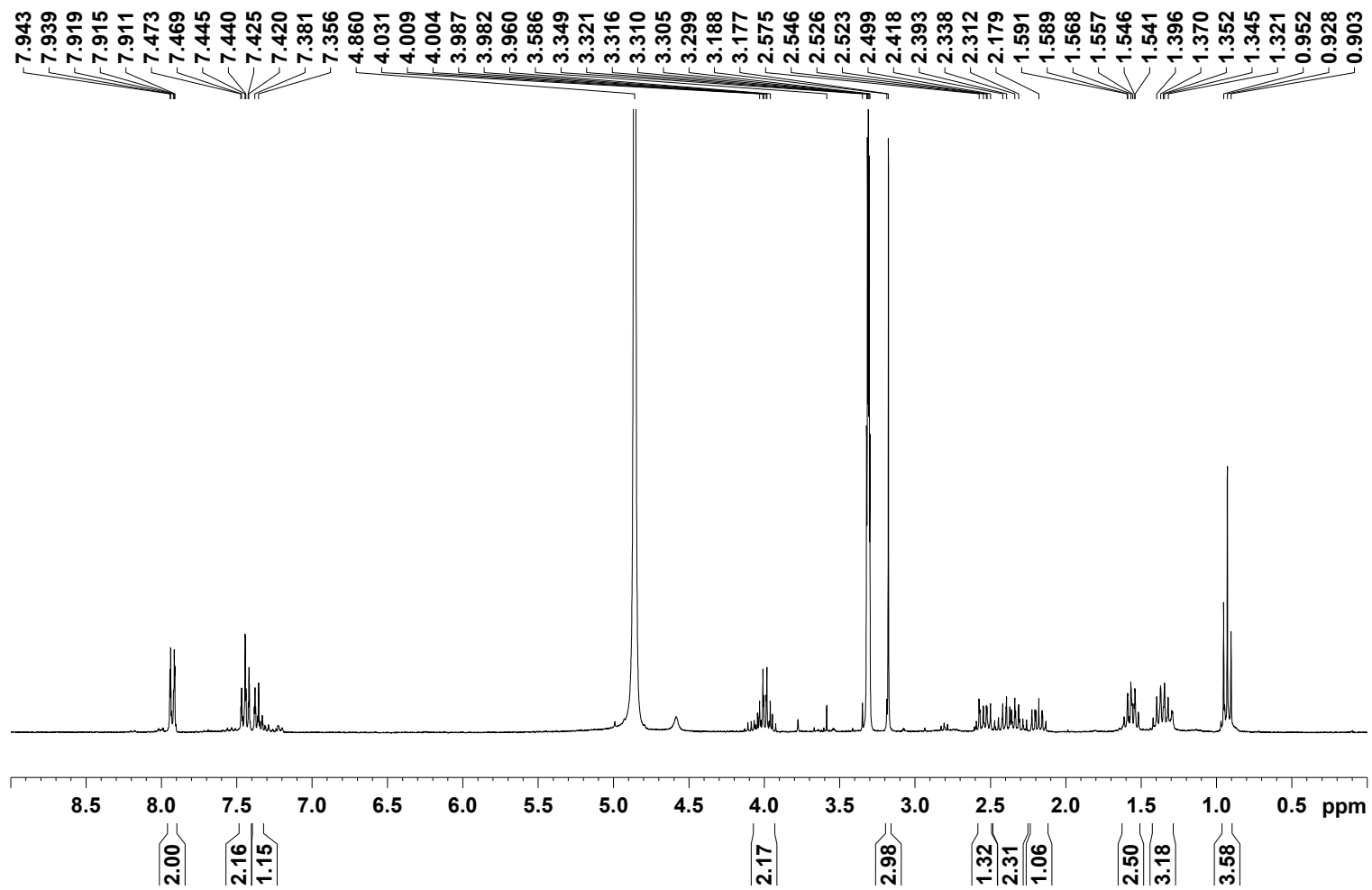


S6. HMBC (300 and 75 MHz, CD_3OD) spectrum of compound 1.



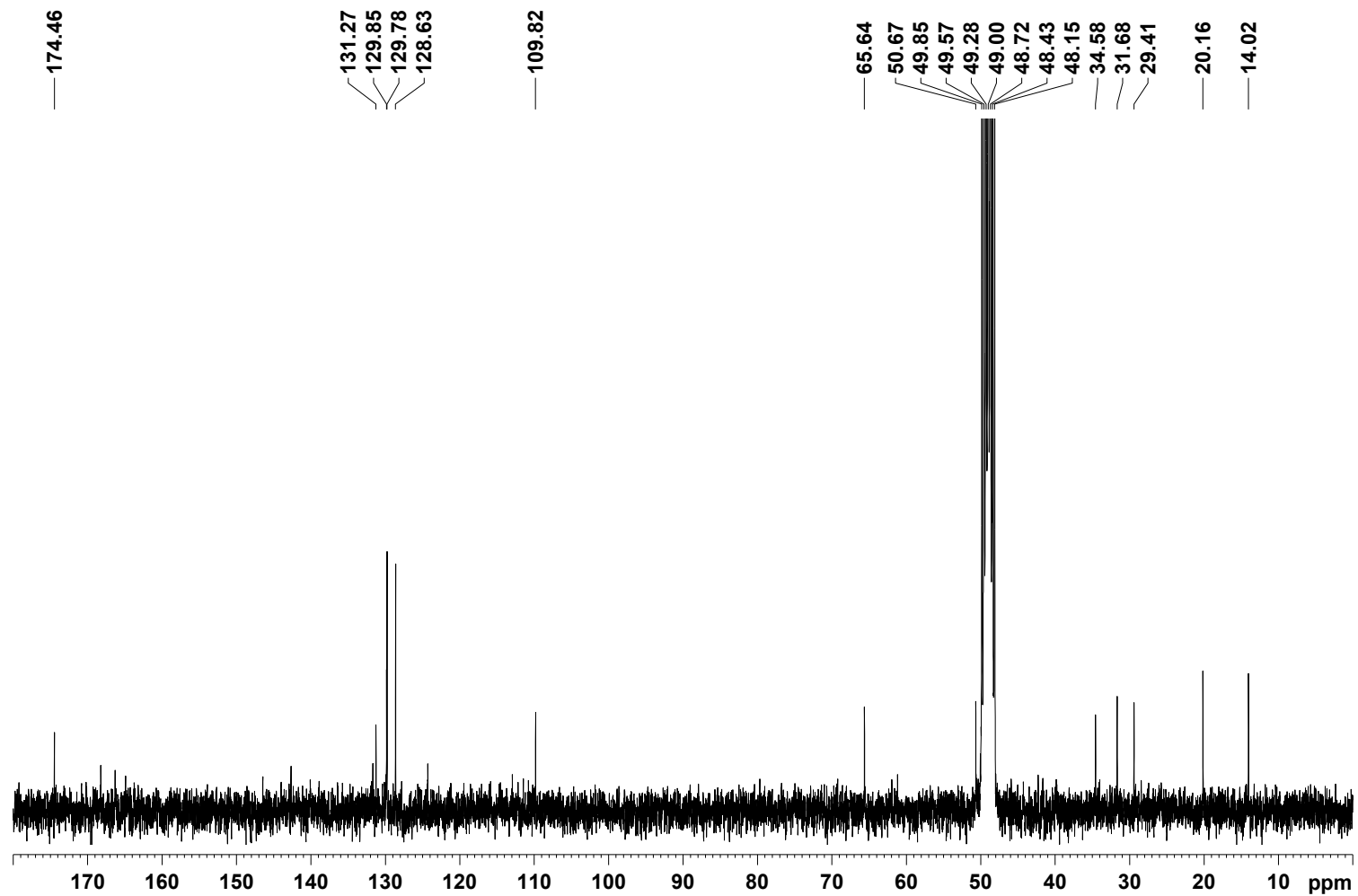
S7. HRESIMS spectrum of compound 2.

Tal80ES 3-3-6-15/15'



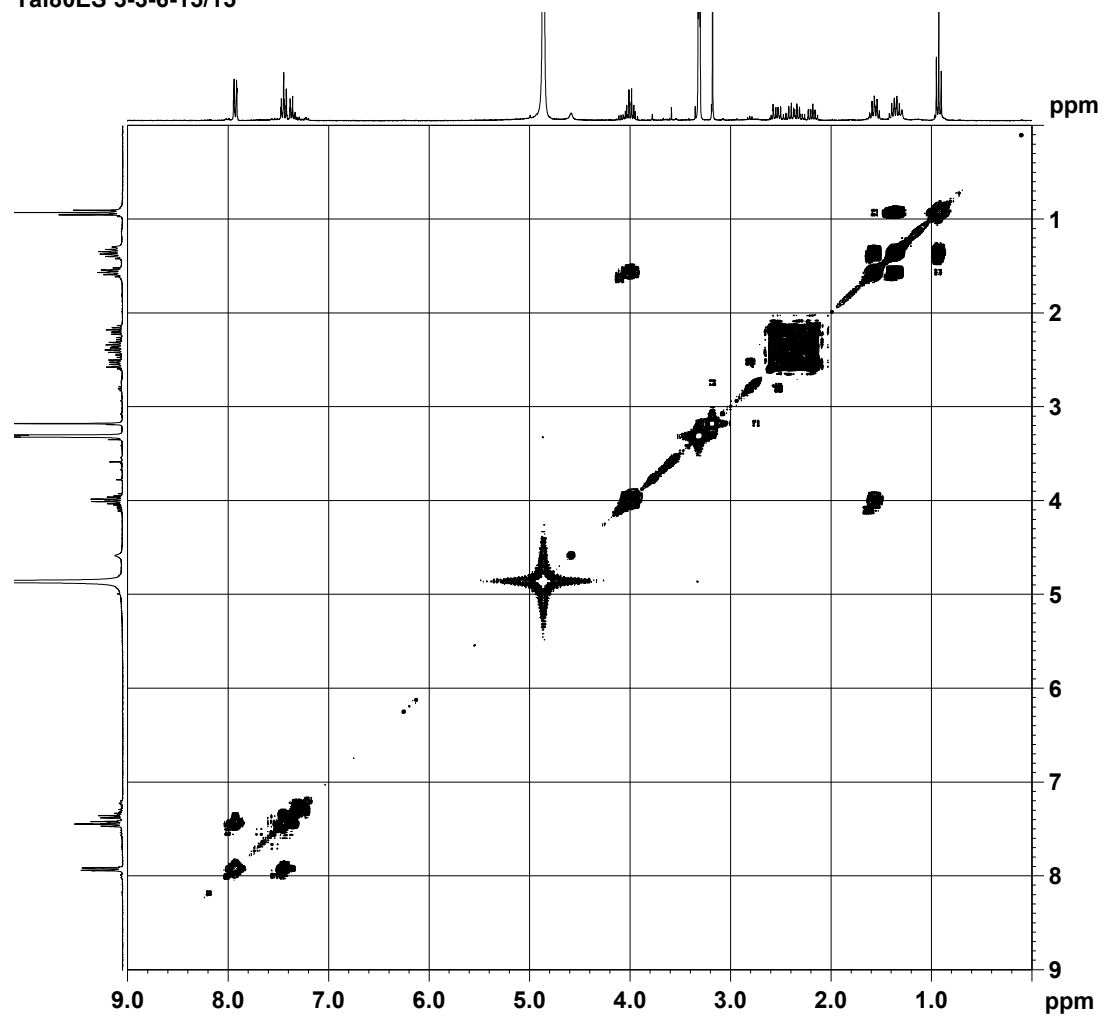
S8. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 2.

Tal80ES 3-3-6-15/15'



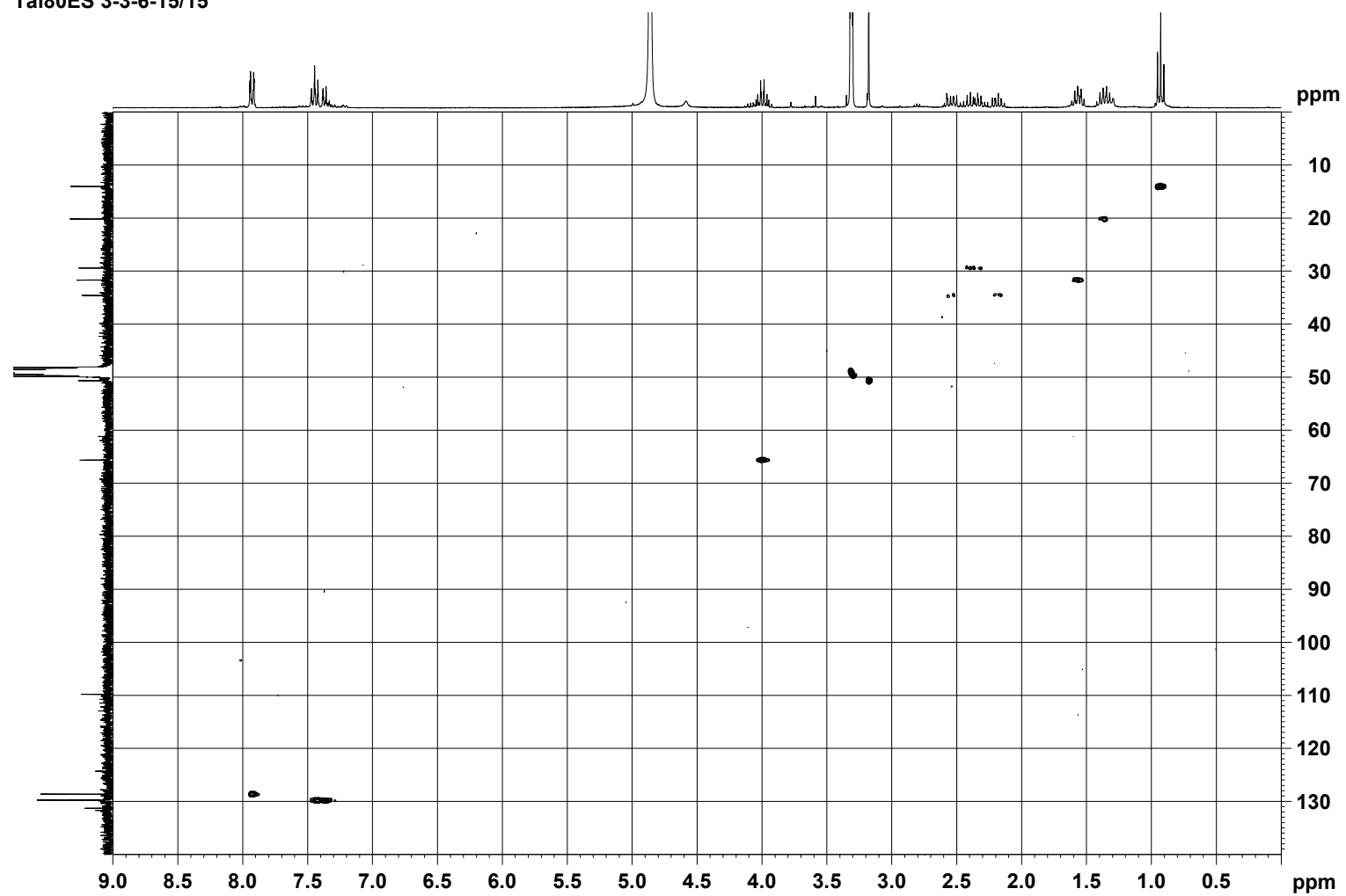
S9. ^{13}C NMR (75 MHz, CD_3OD) spectrum of compound 2.

Tal80ES 3-3-6-15/15'



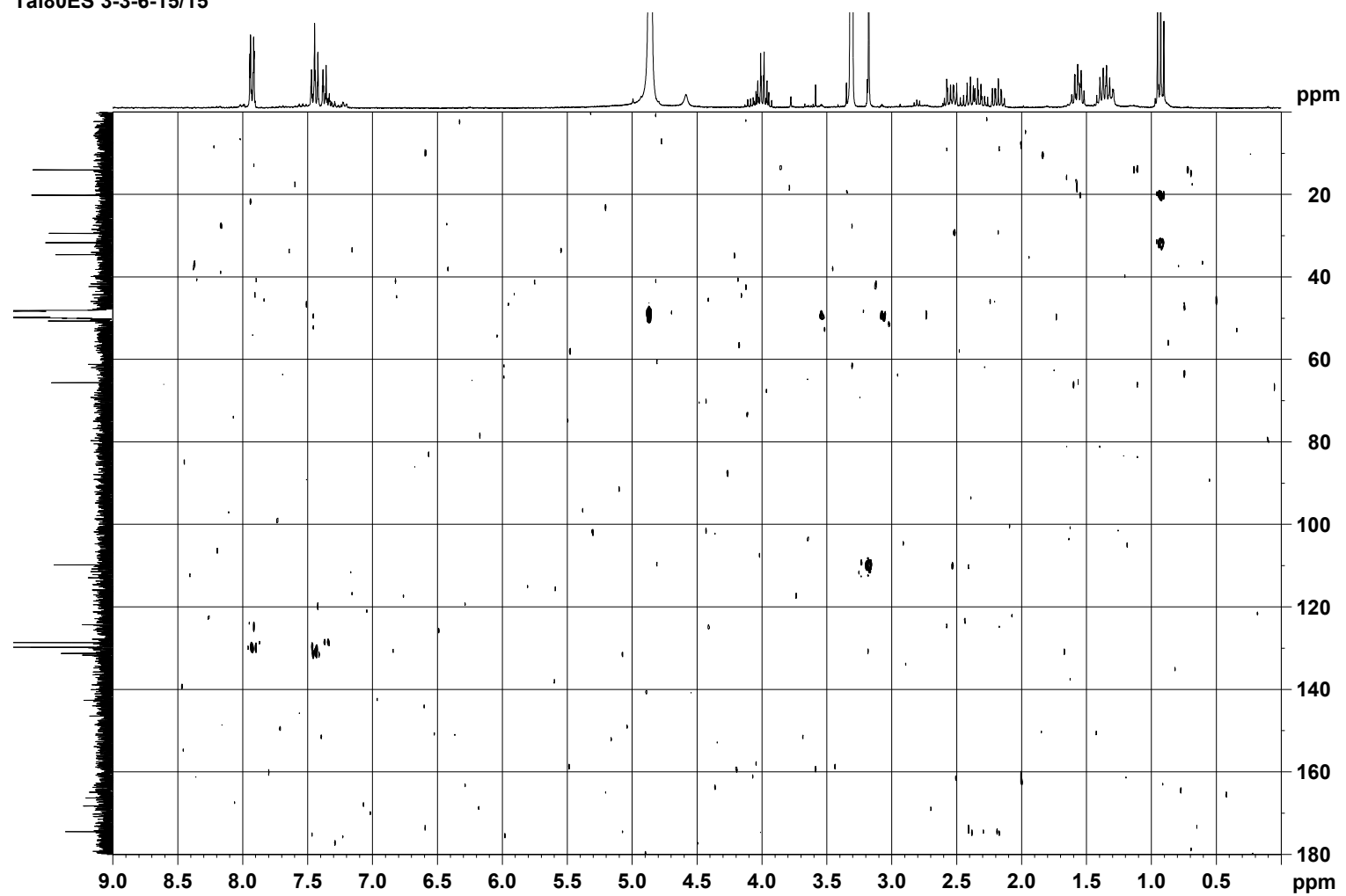
S10. ^1H - ^1H COSY (300 MHz, CD_3OD) spectrum of compound 2.

Tal80ES 3-3-6-15/15'

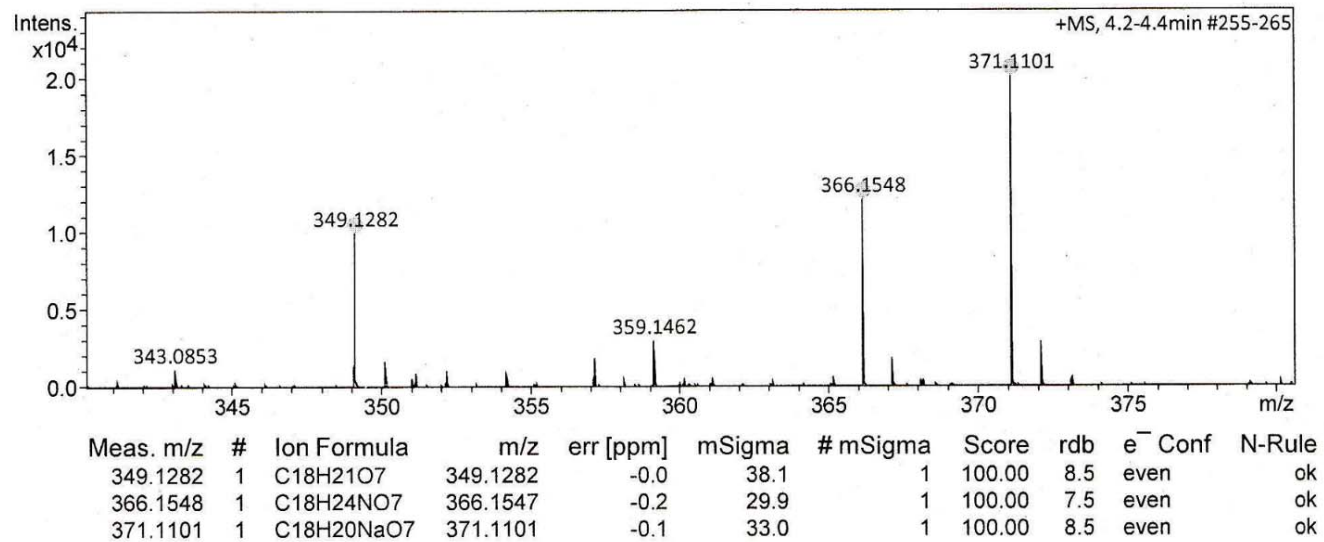


S11. HSQC (300 and 75 MHz, CD_3OD) spectrum of compound 2.

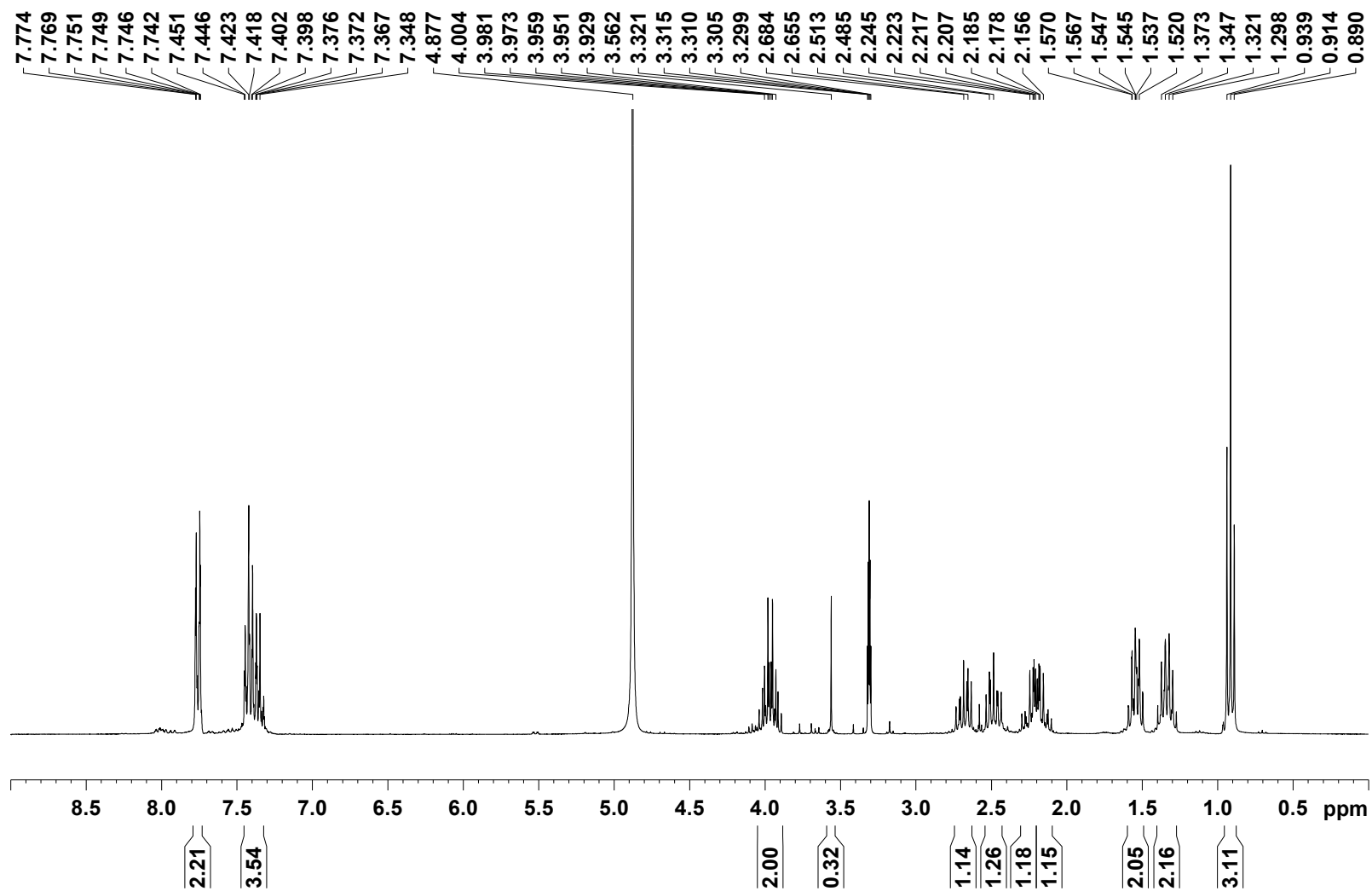
Tal80ES 3-3-6-15/15'



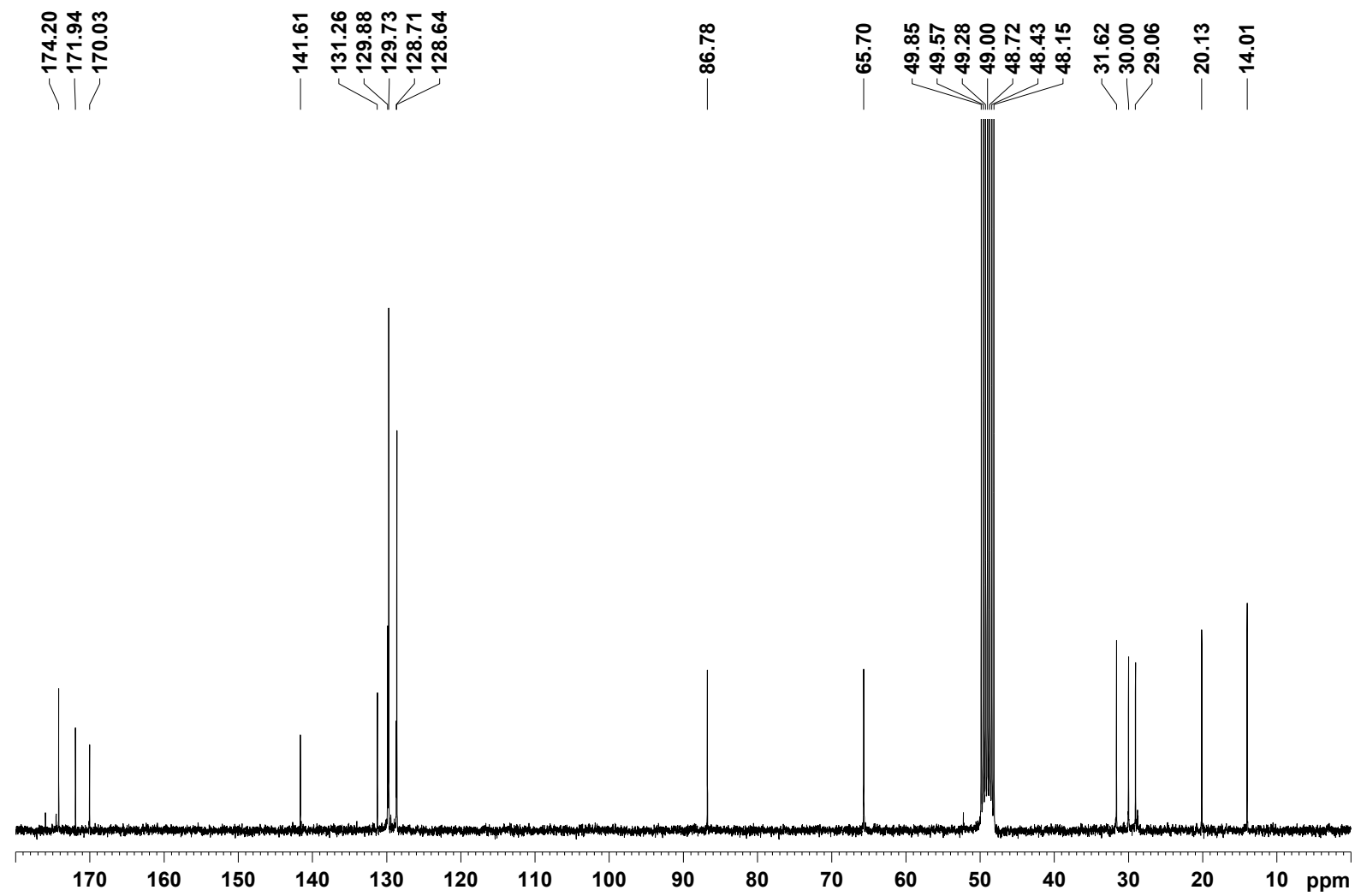
S12. HMBC (300 and 75 MHz, CD_3OD) spectrum of compound 2.



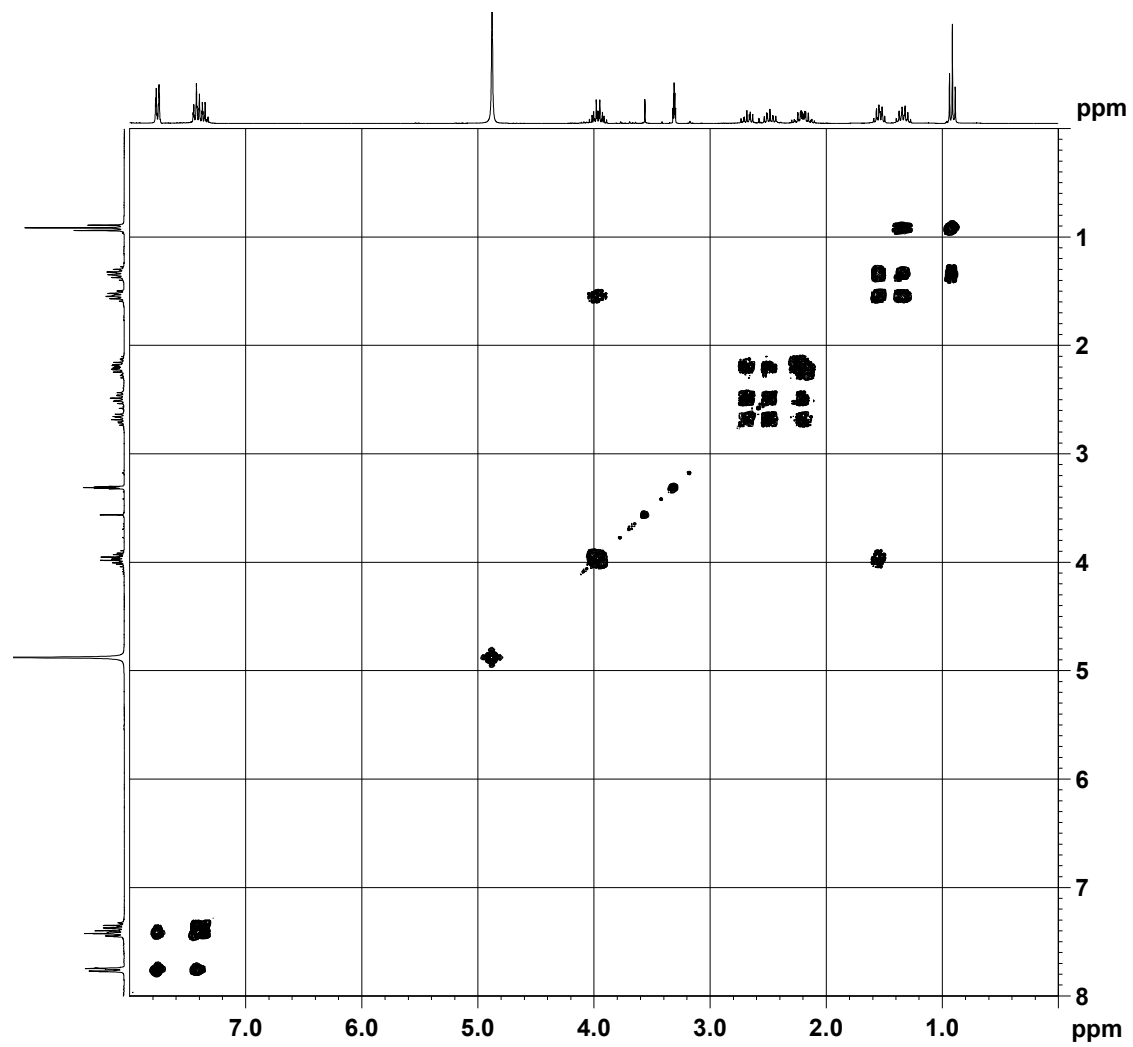
S13. HRESIMS spectrum of compound **3**.



S14. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 3.

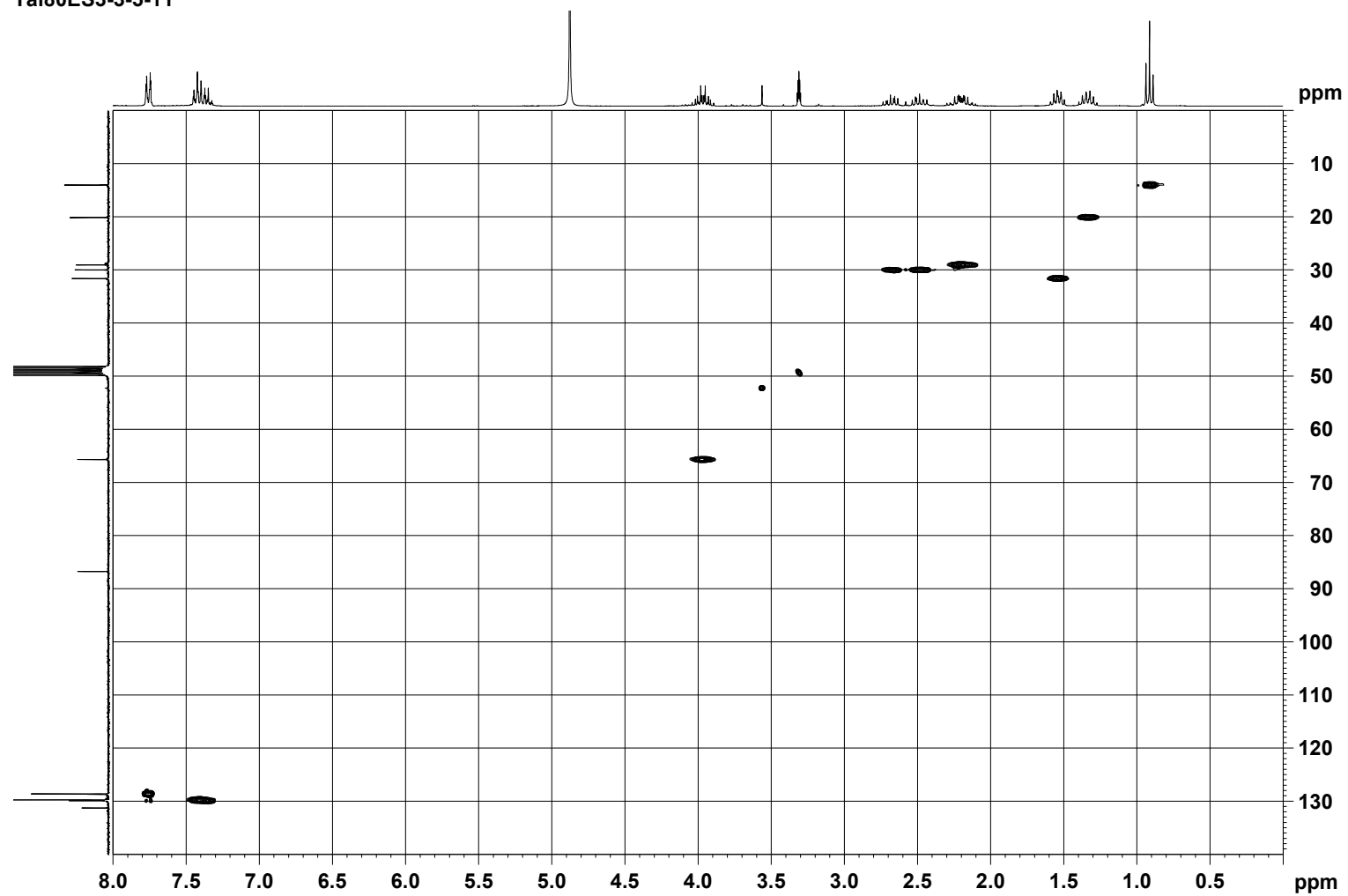


S15. ^{13}C NMR (75 MHz, CD_3OD) spectrum of compound 3.

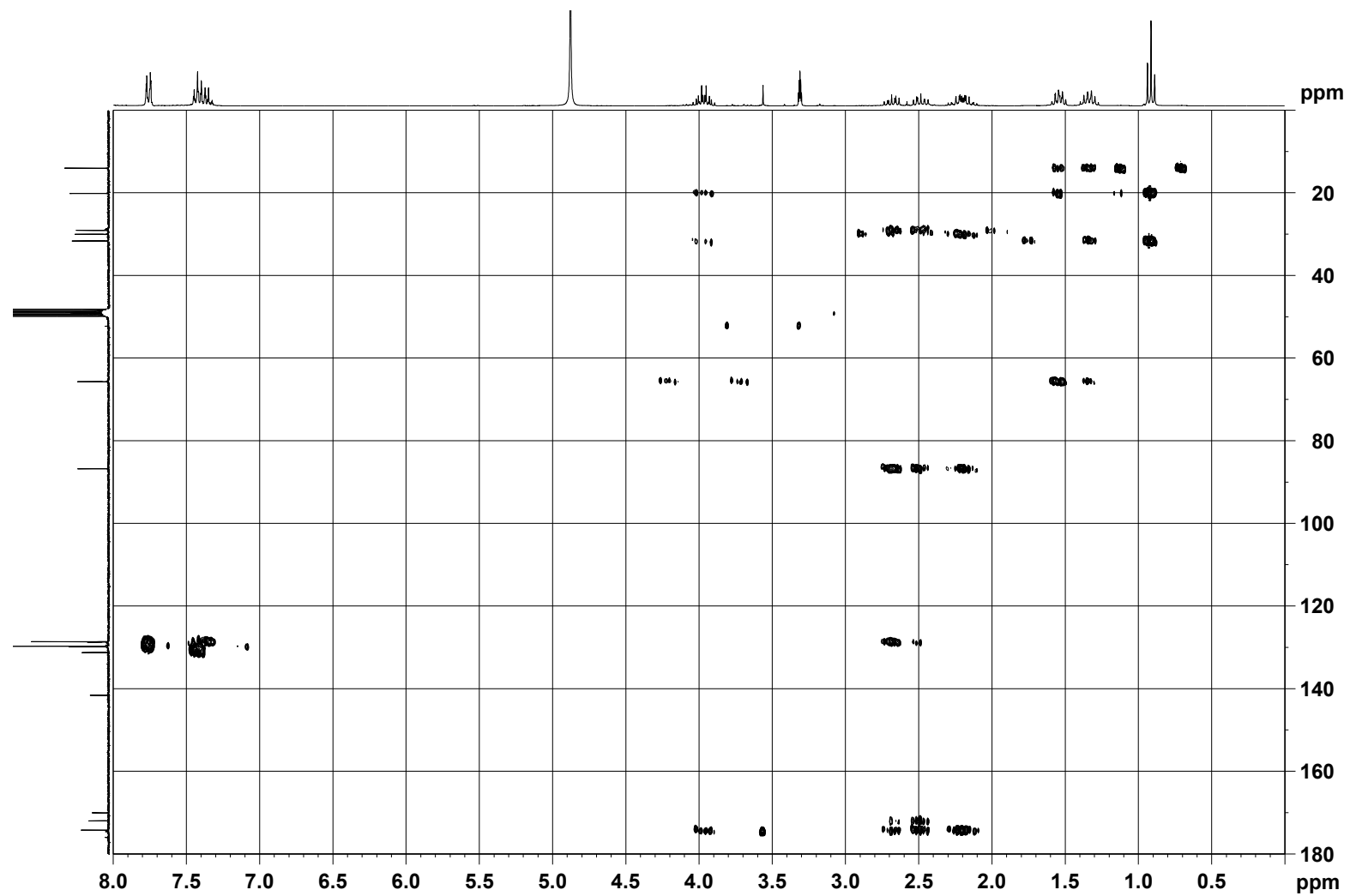


S16. ^1H - ^1H COSY (300 MHz, CD_3OD) spectrum of compound 3.

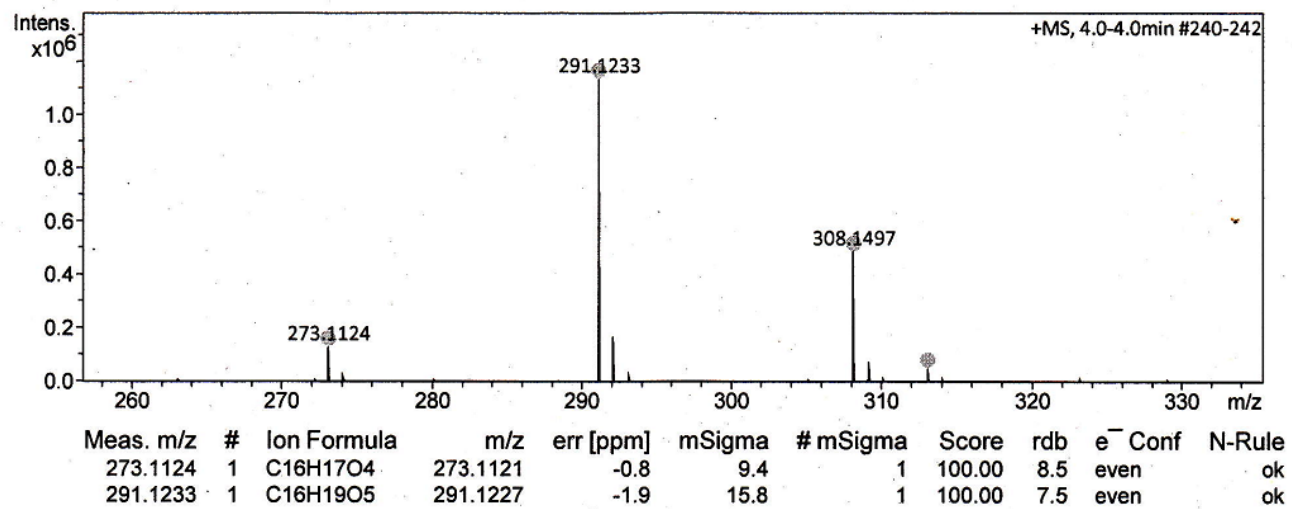
Tal80ES3-3-5-11



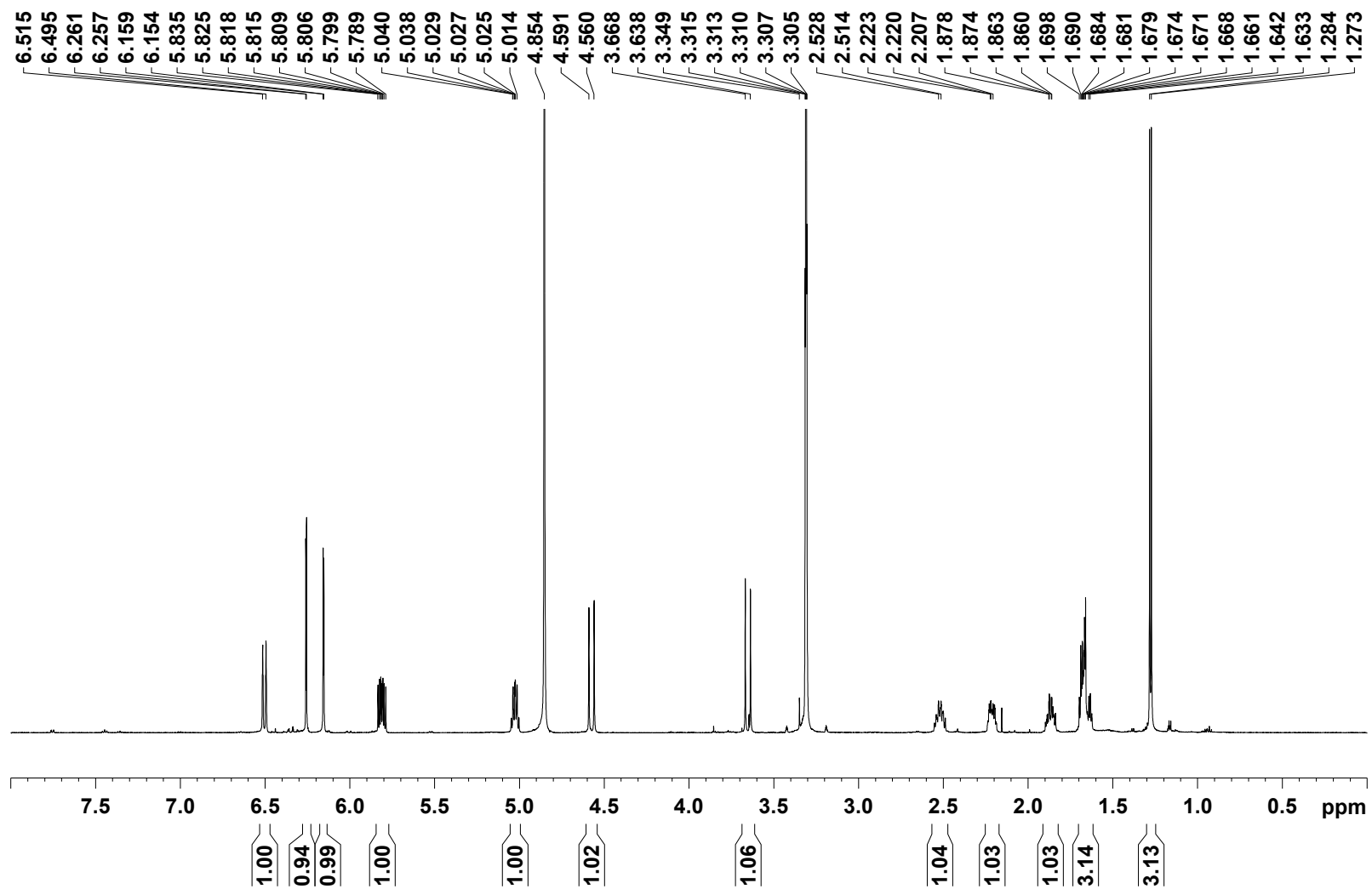
S17. HSQC (300 and 75 MHz, CD₃OD) spectrum of compound 3.



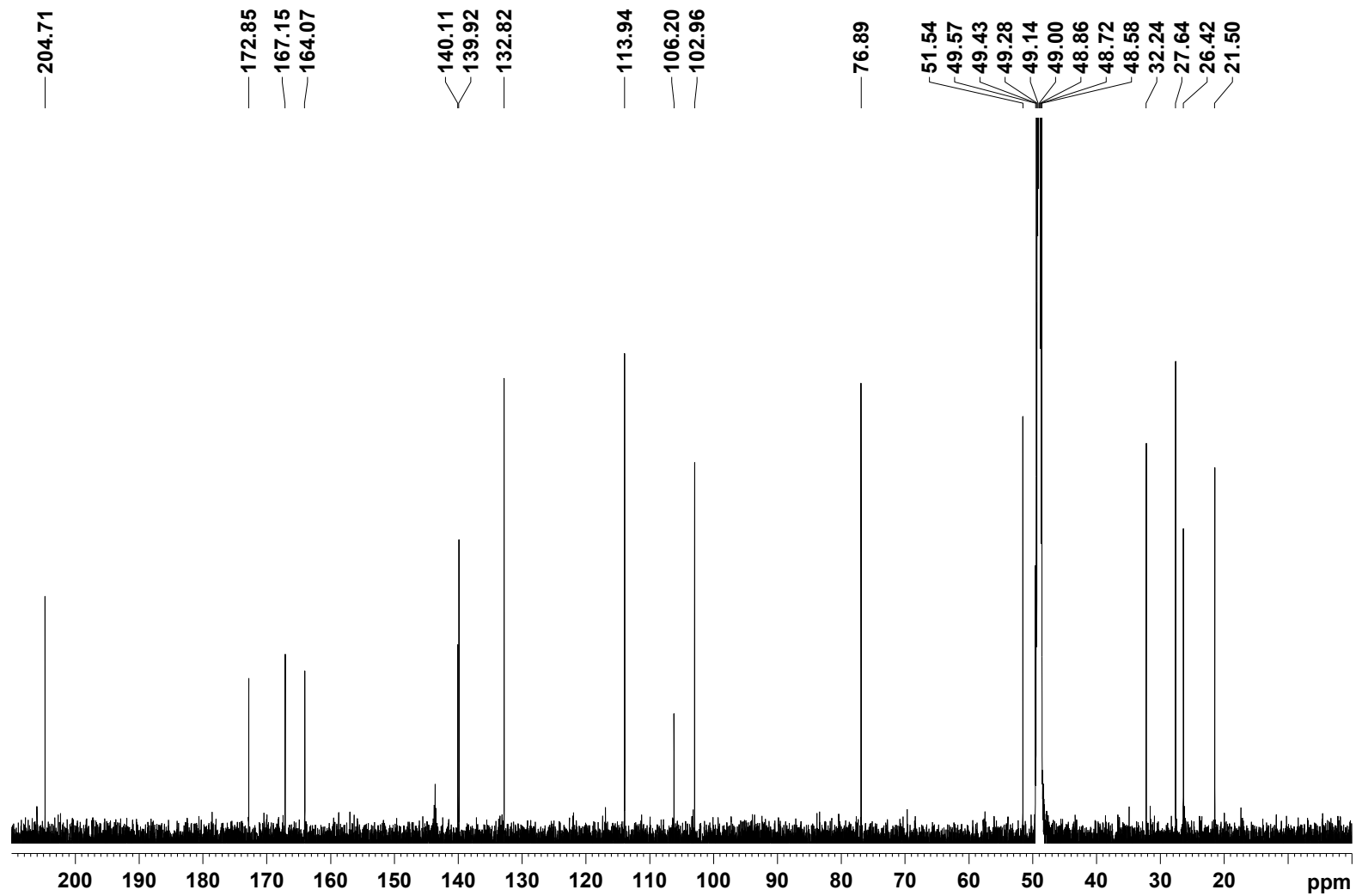
S18. HMBC (300 and 75 MHz, CD₃OD) spectrum of compound 3.



S19. HRESIMS spectrum of compound 6.

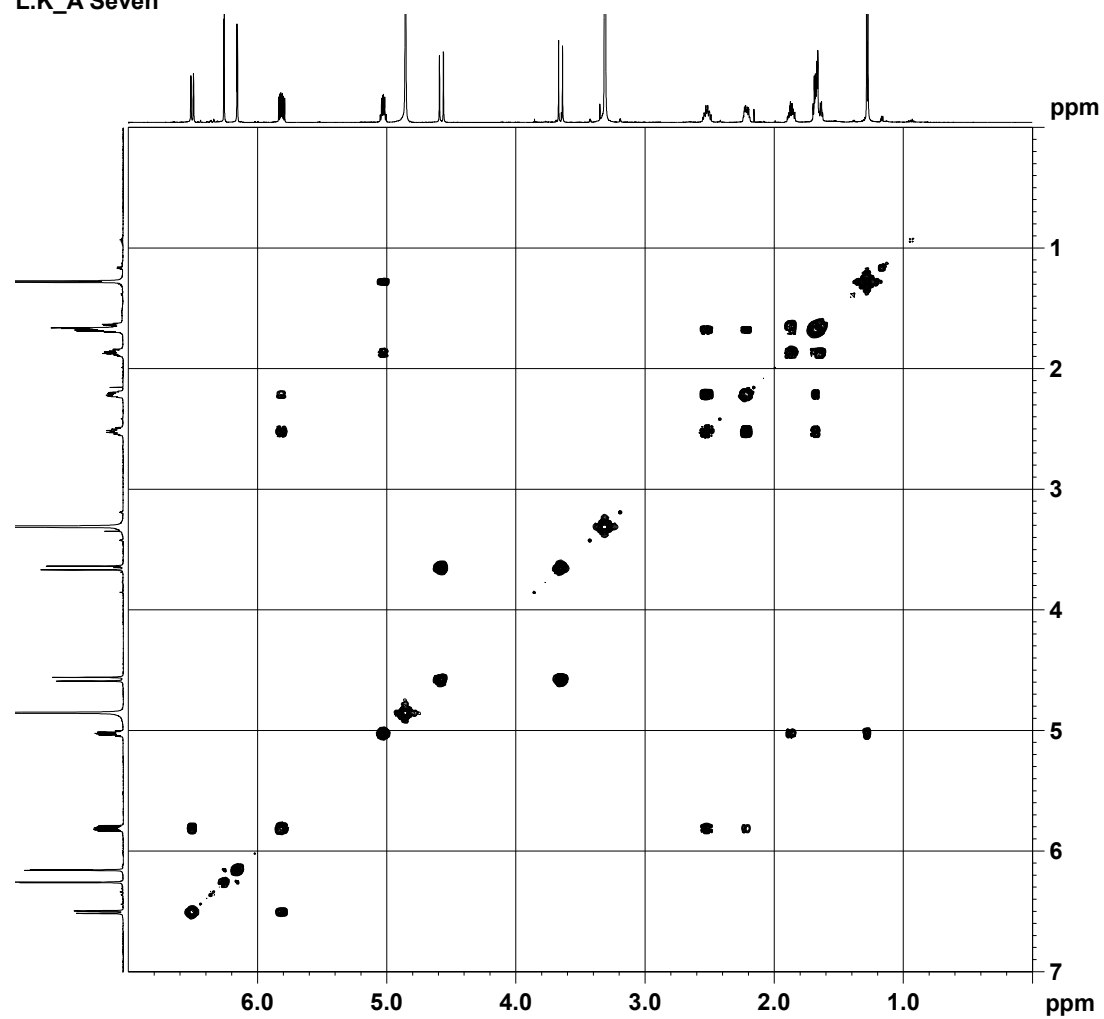


S20. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 6.

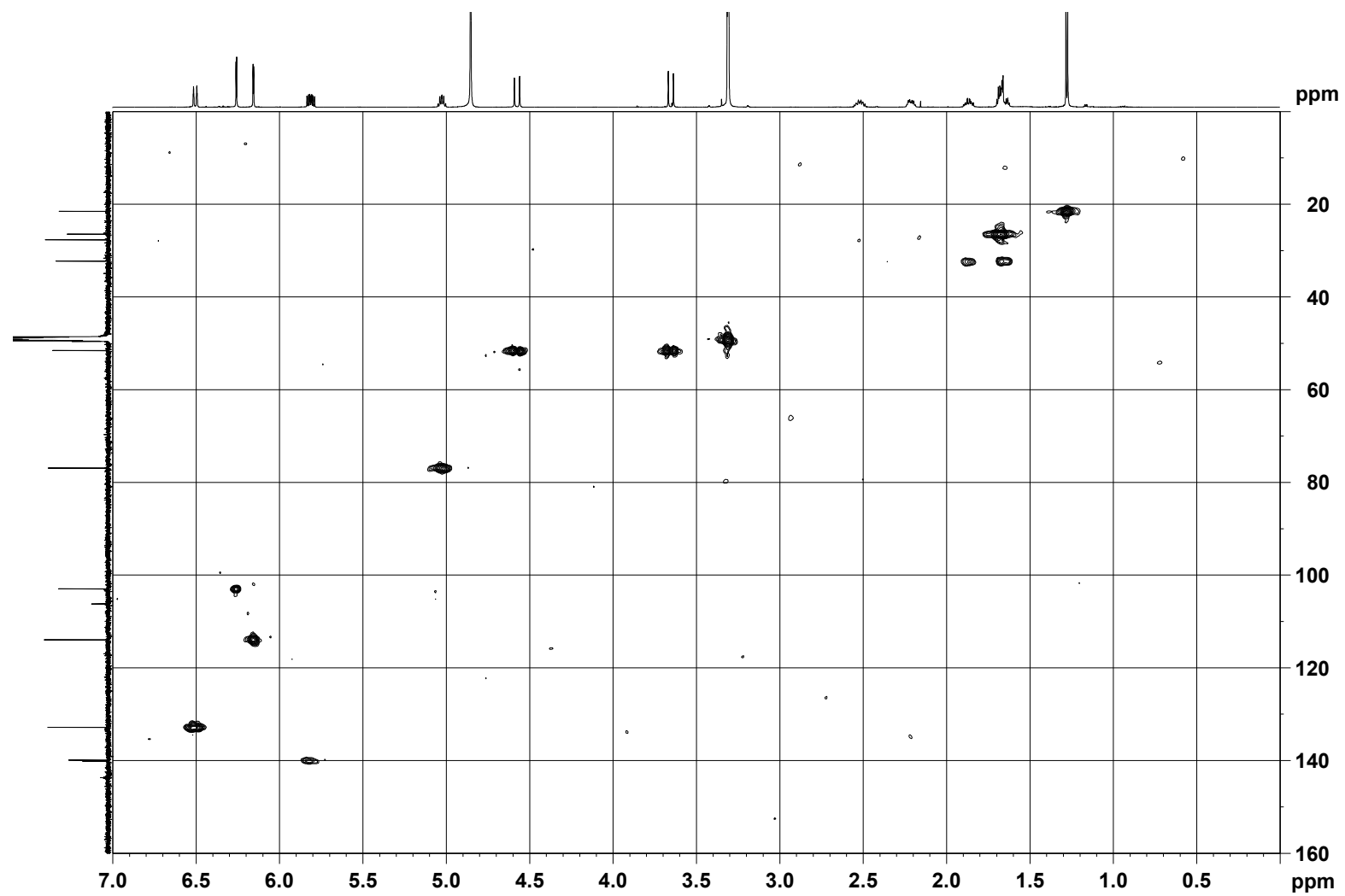


S21. ^{13}C NMR (150 MHz, CD_3OD) spectrum of compound 6.

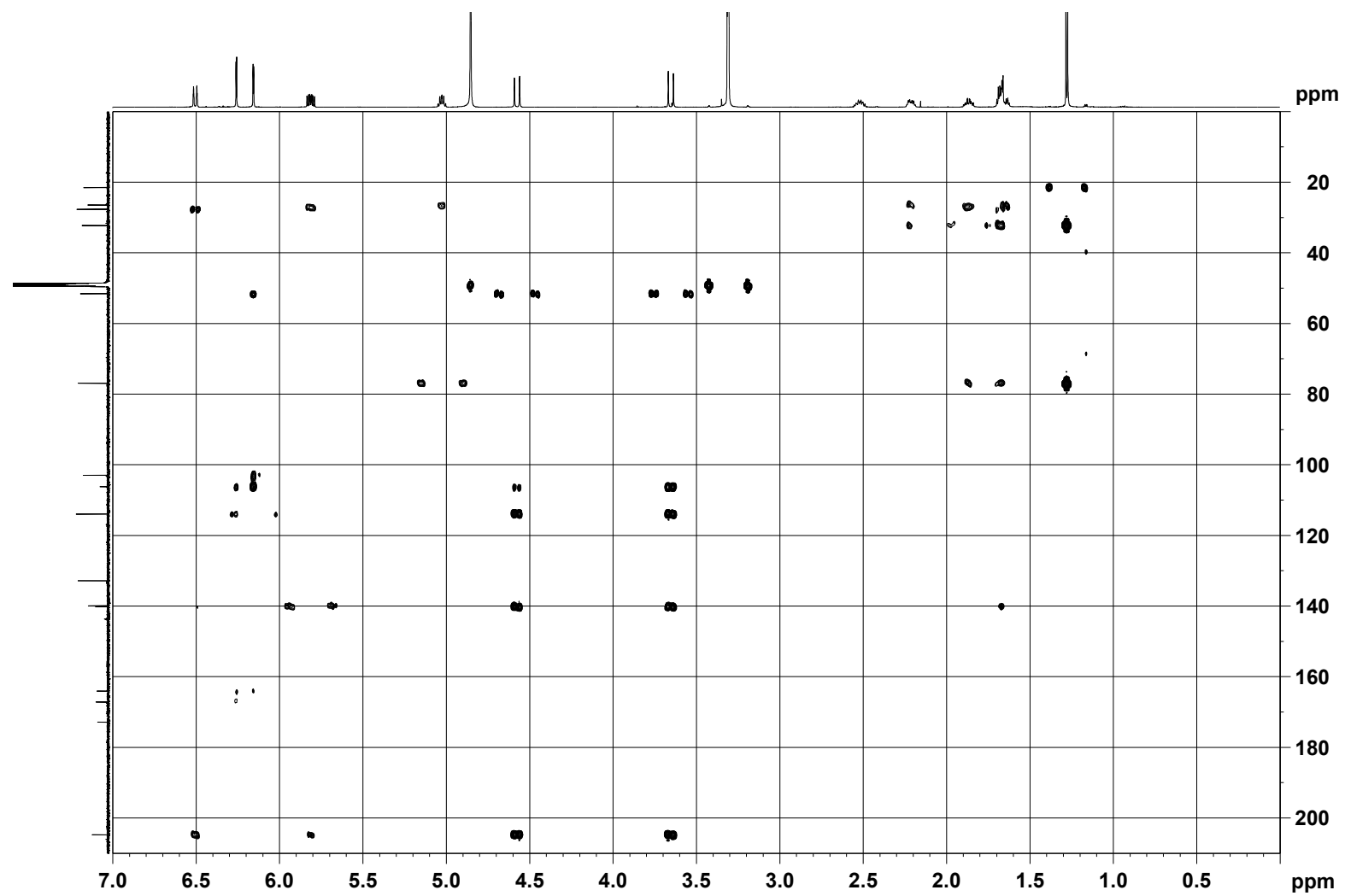
L.K_A Seven



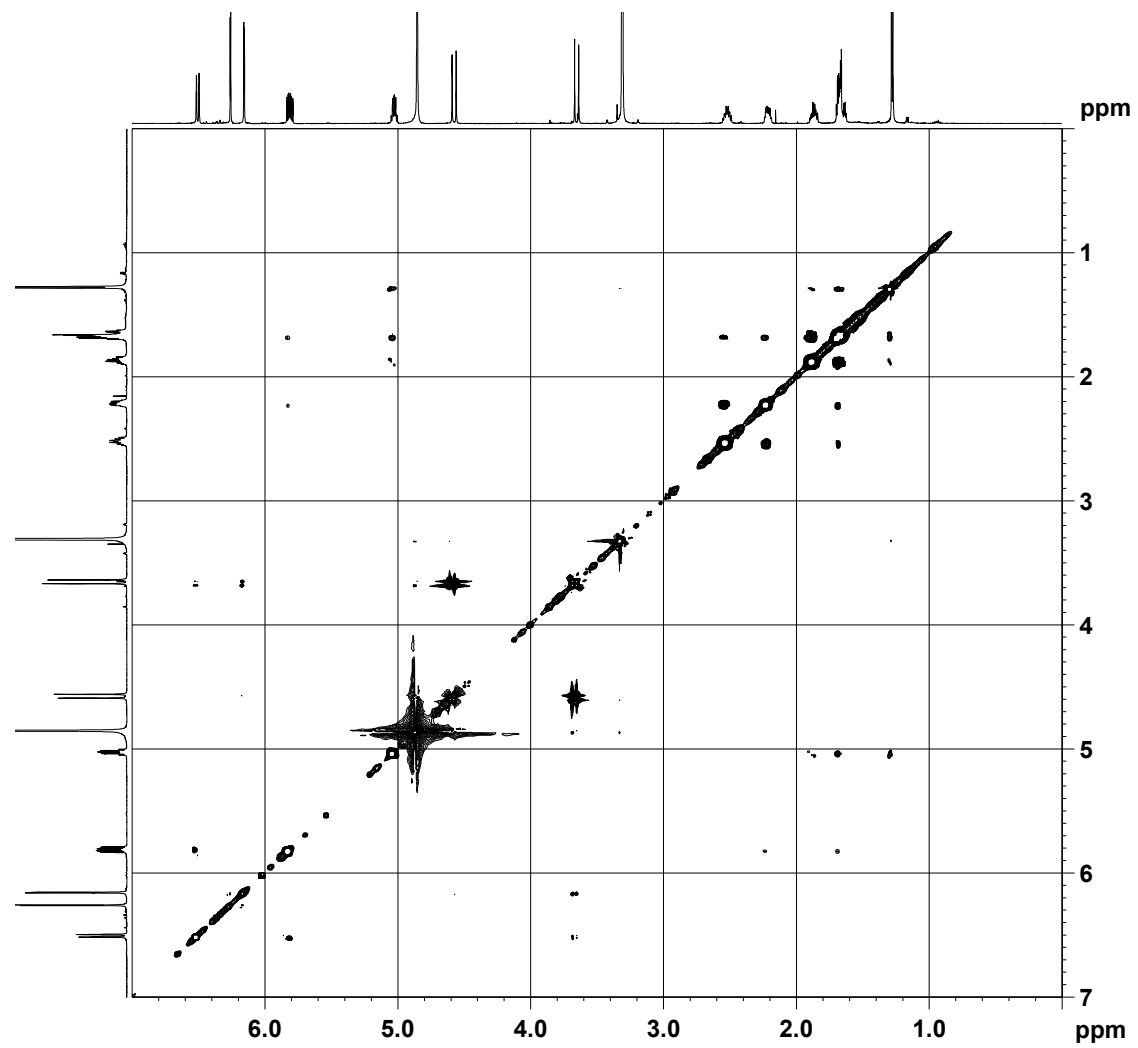
S22. ^1H - ^1H COSY (600 MHz, CD_3OD) spectrum of compound 6.



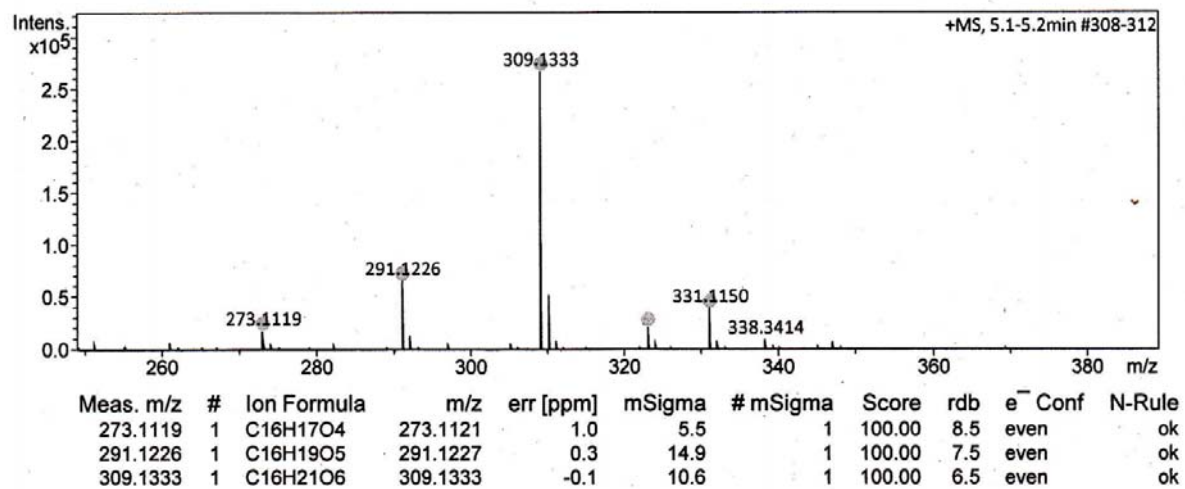
S23. HSQC (600 and 150 MHz, CD₃OD) spectrum of compound 6.



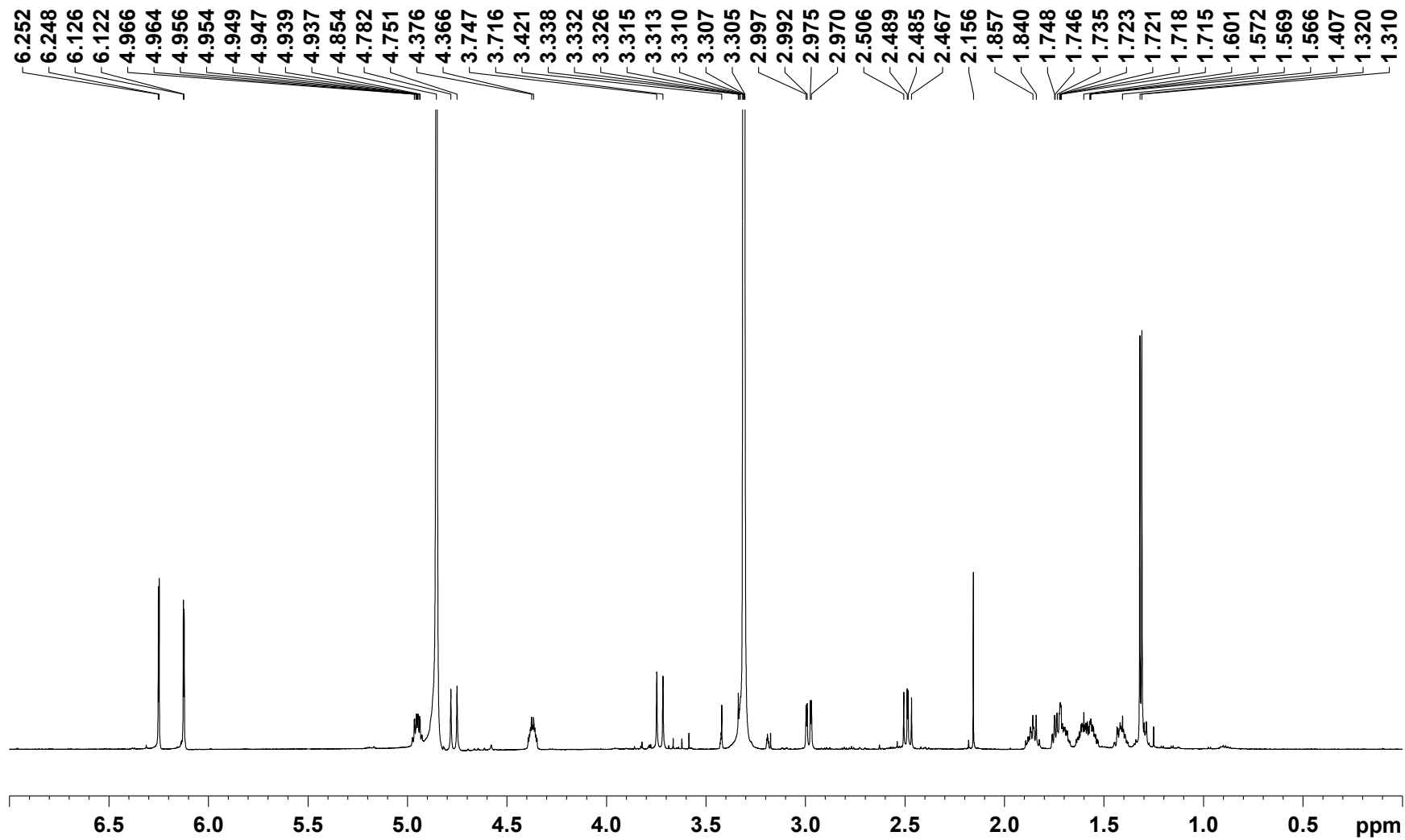
S24. HMBC (600 and 150 MHz, CD_3OD) spectrum of compound 6.



S25. ROESY (600 MHz, CD₃OD) spectrum of compound 6.

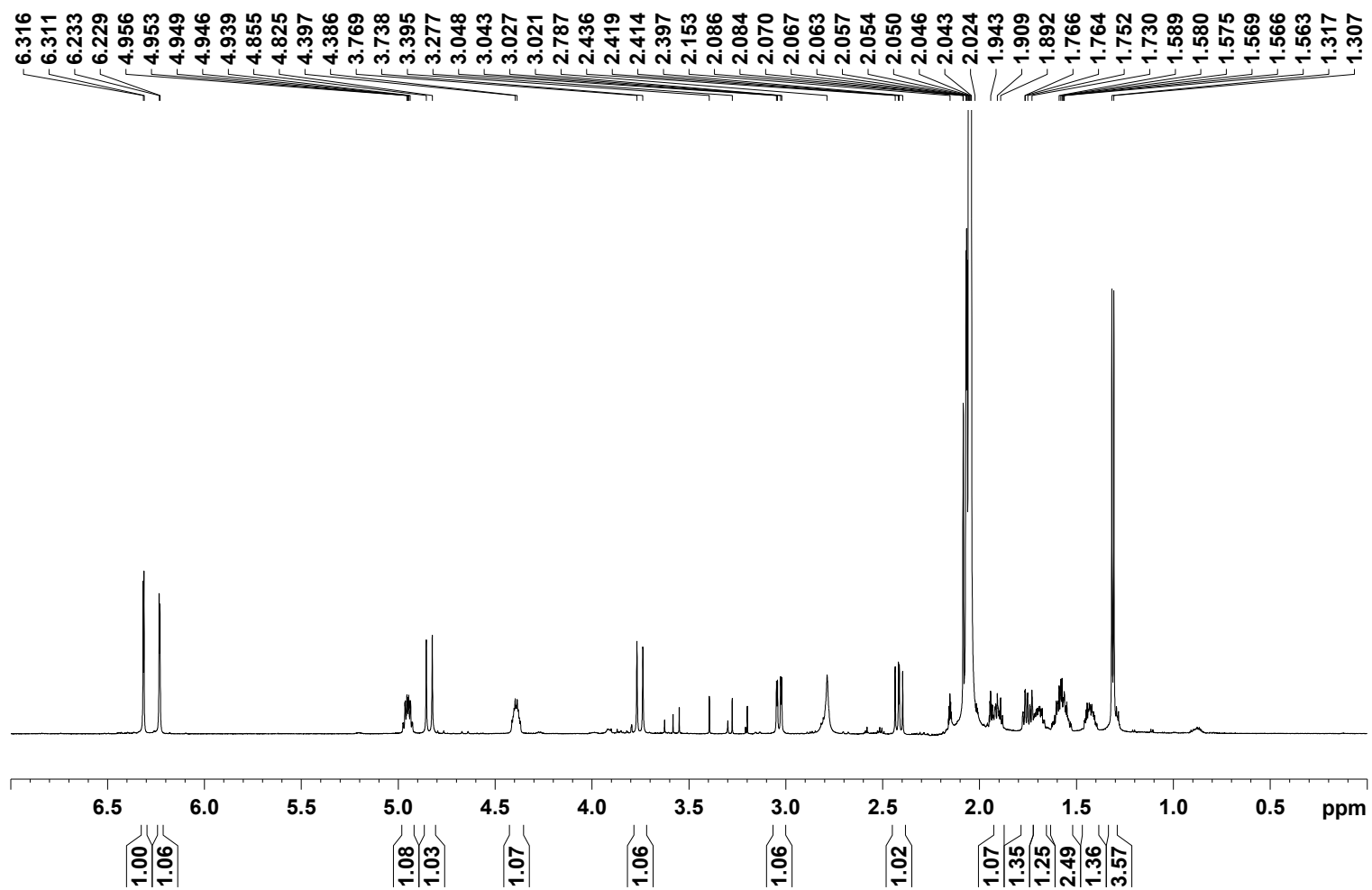


S26. HRESIMS spectrum of compound 7.



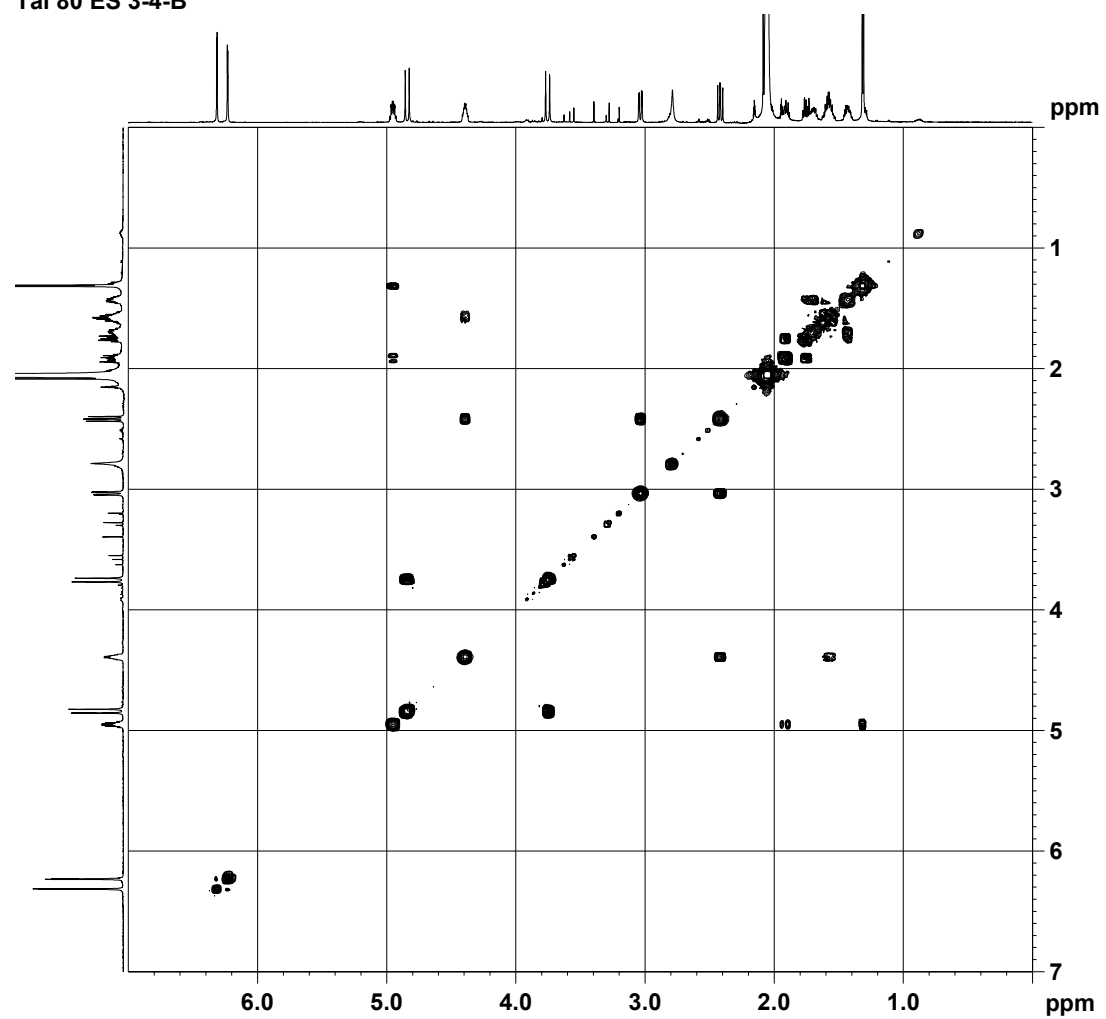
S27. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 7.

Tal 80 ES 3-4-B



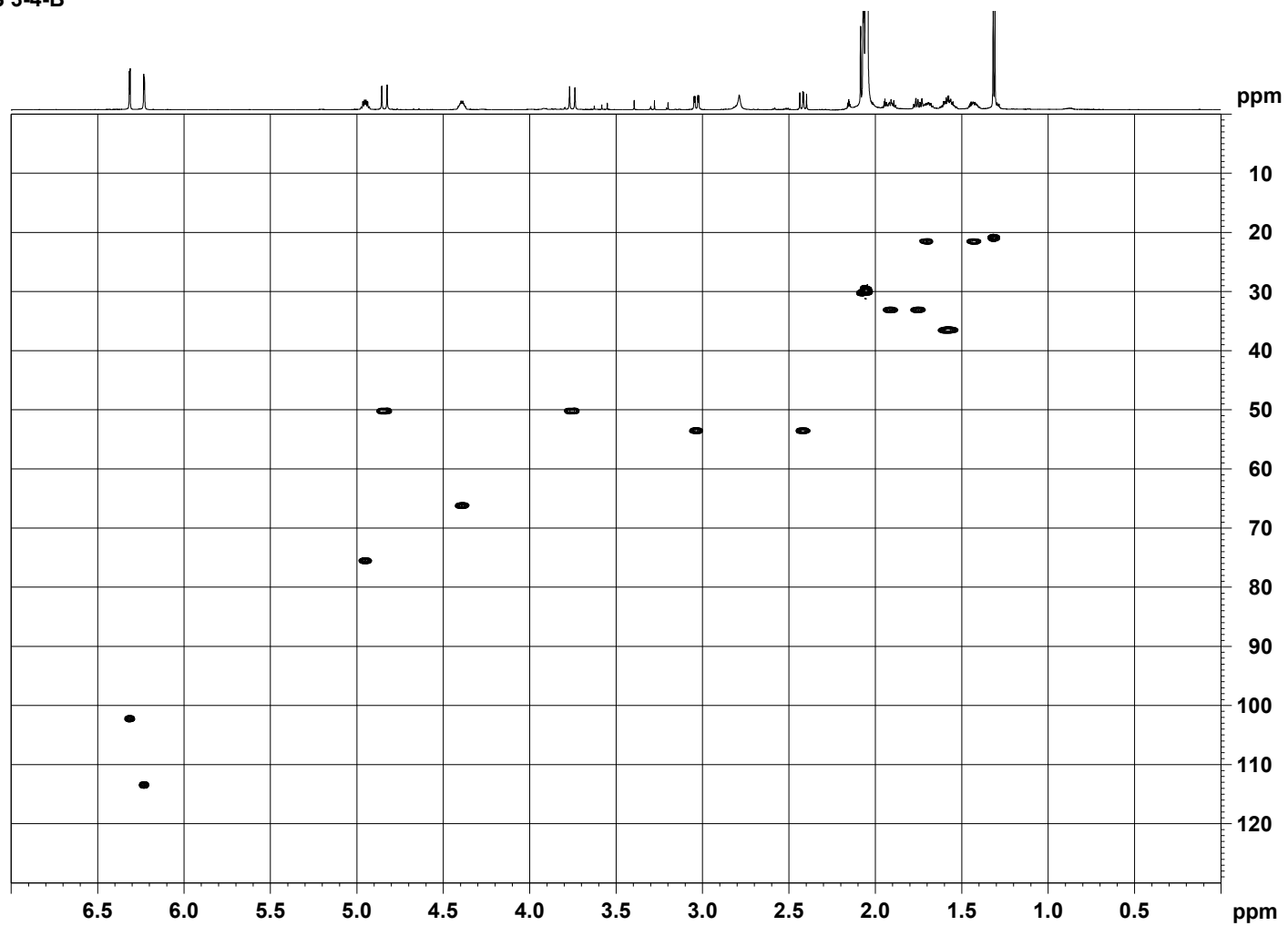
S28. ¹H NMR (600 MHz, CD₃COCD₃) spectrum of compound 7.

Tal 80 ES 3-4-B



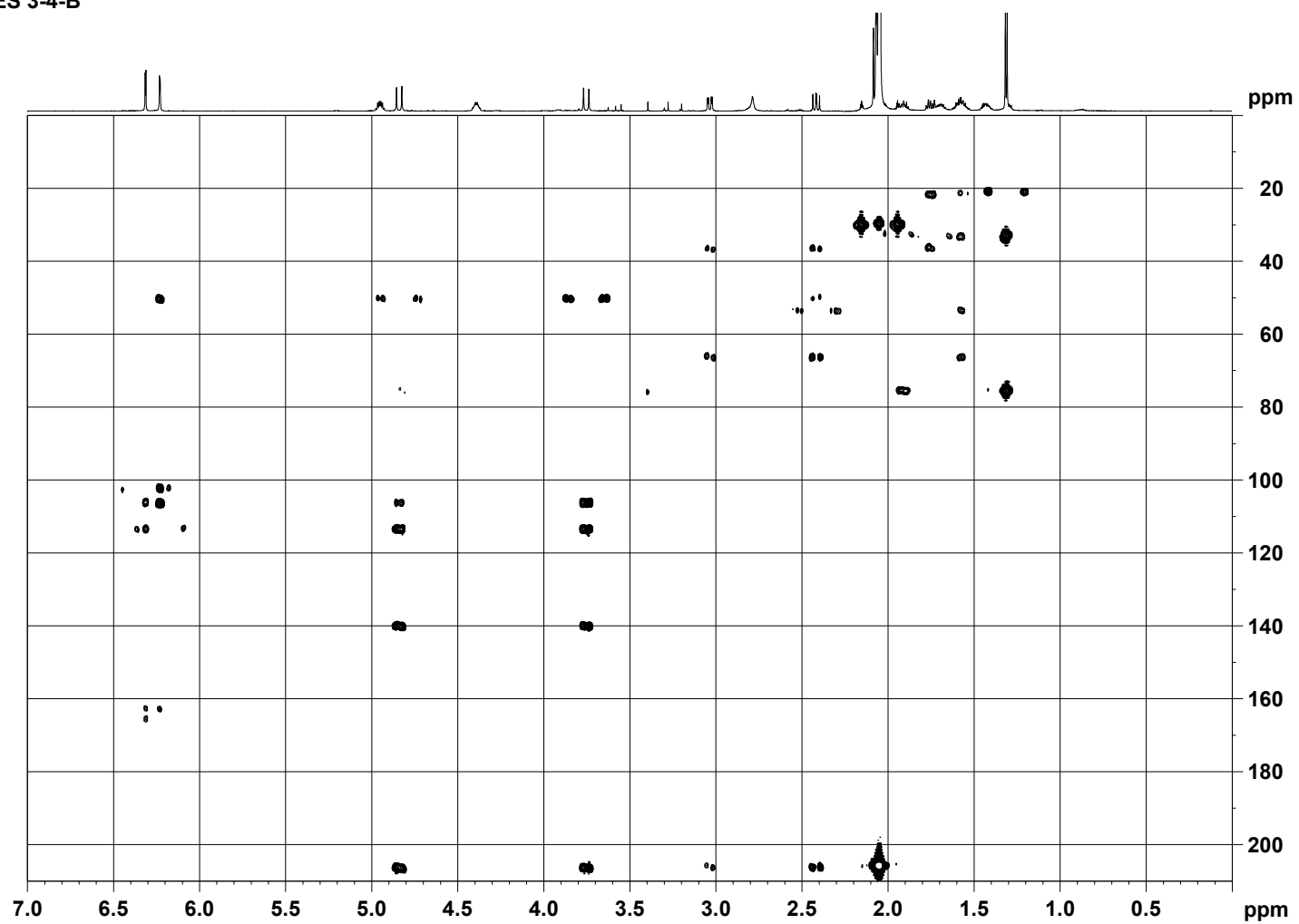
S29. ^1H - ^1H COSY (600 MHz, CD_3COCD_3) spectrum of compound 7.

Tal 80 ES 3-4-B



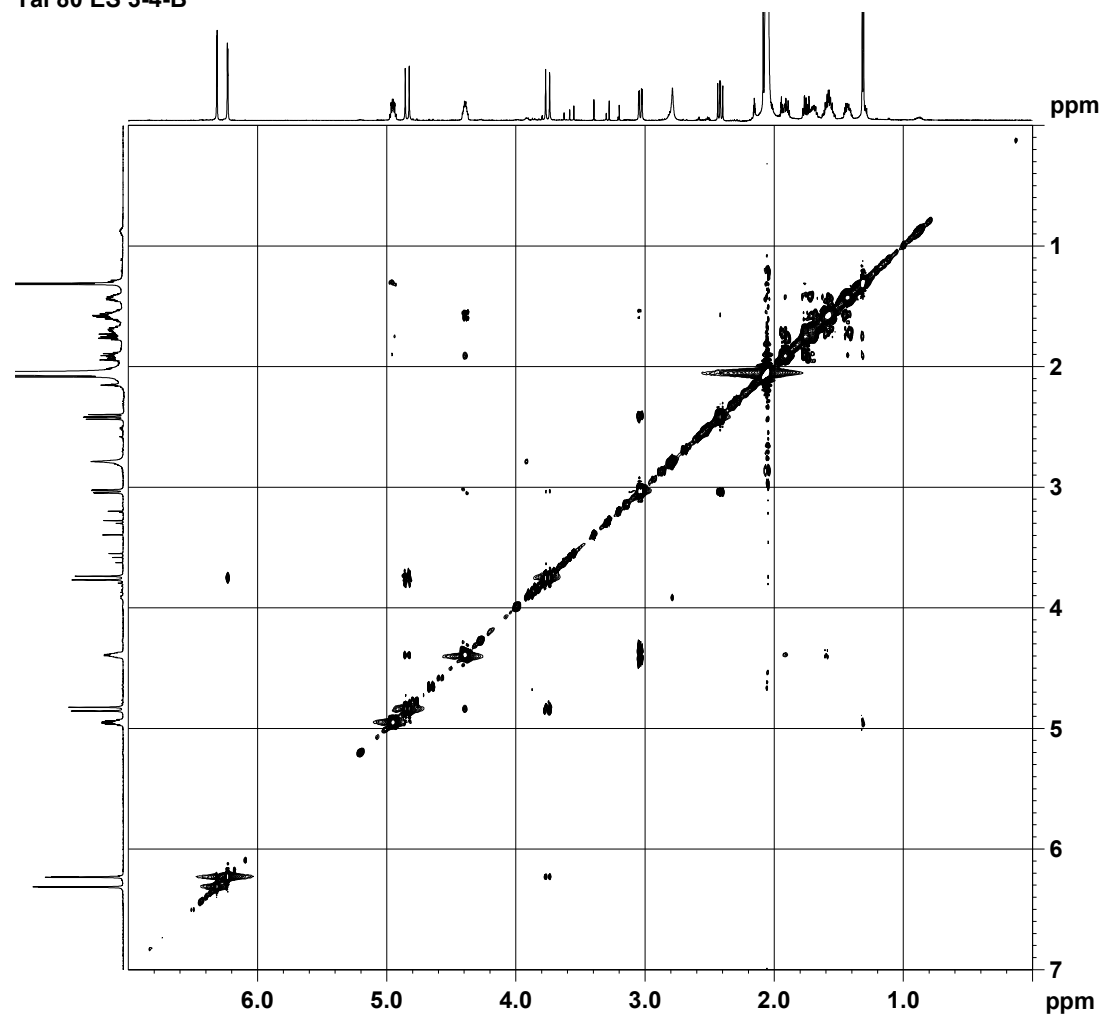
S30. HSQC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 7.

Tal 80 ES 3-4-B

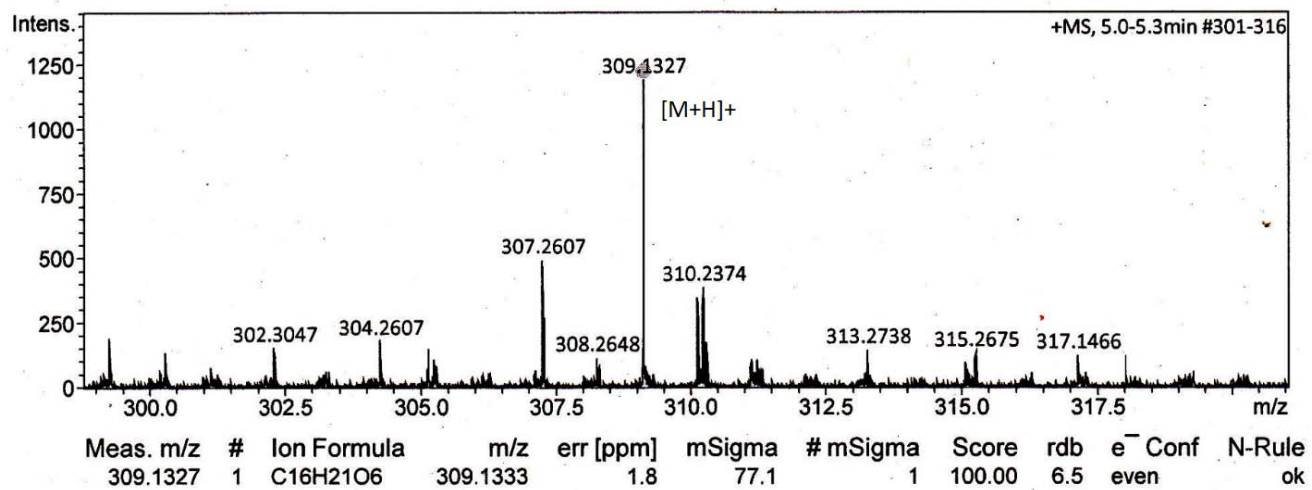


S31. HMBC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 7.

Tal 80 ES 3-4-B

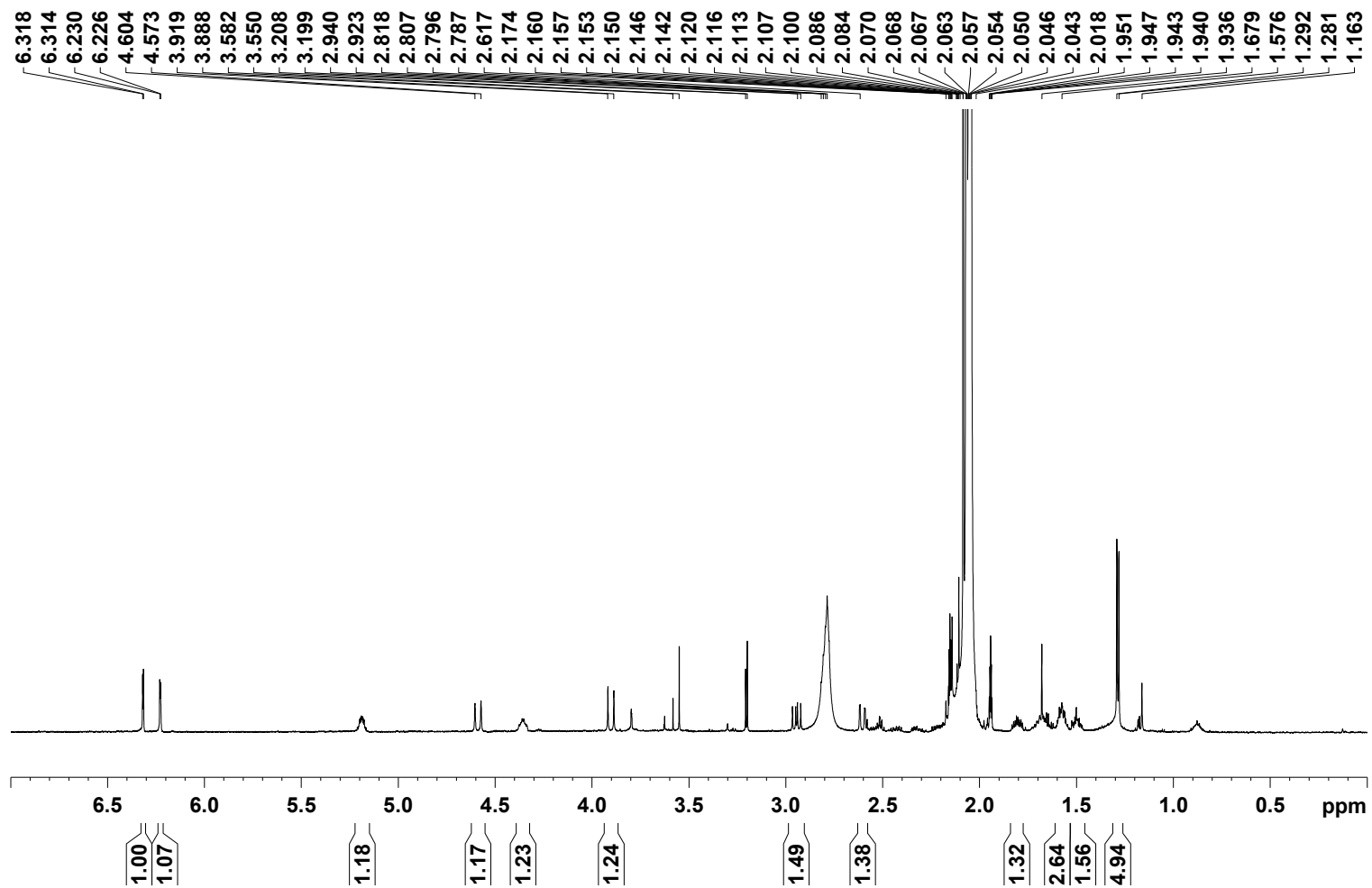


S32. ROESY (600 MHz, CD₃COCD₃) spectrum of compound 7.

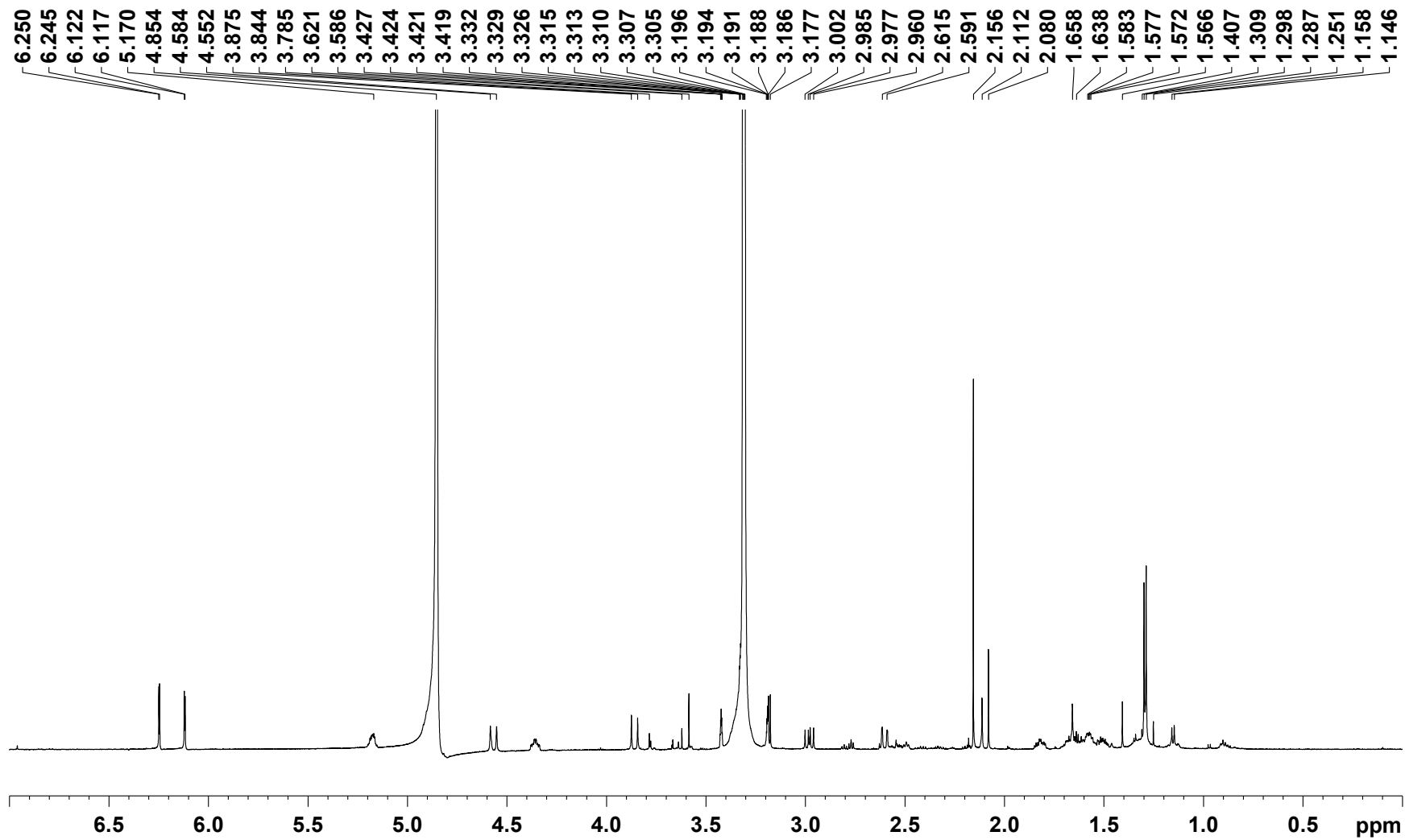


S33. HRESIMS spectrum of compound 8.

Tal 80 ES 4-5-6

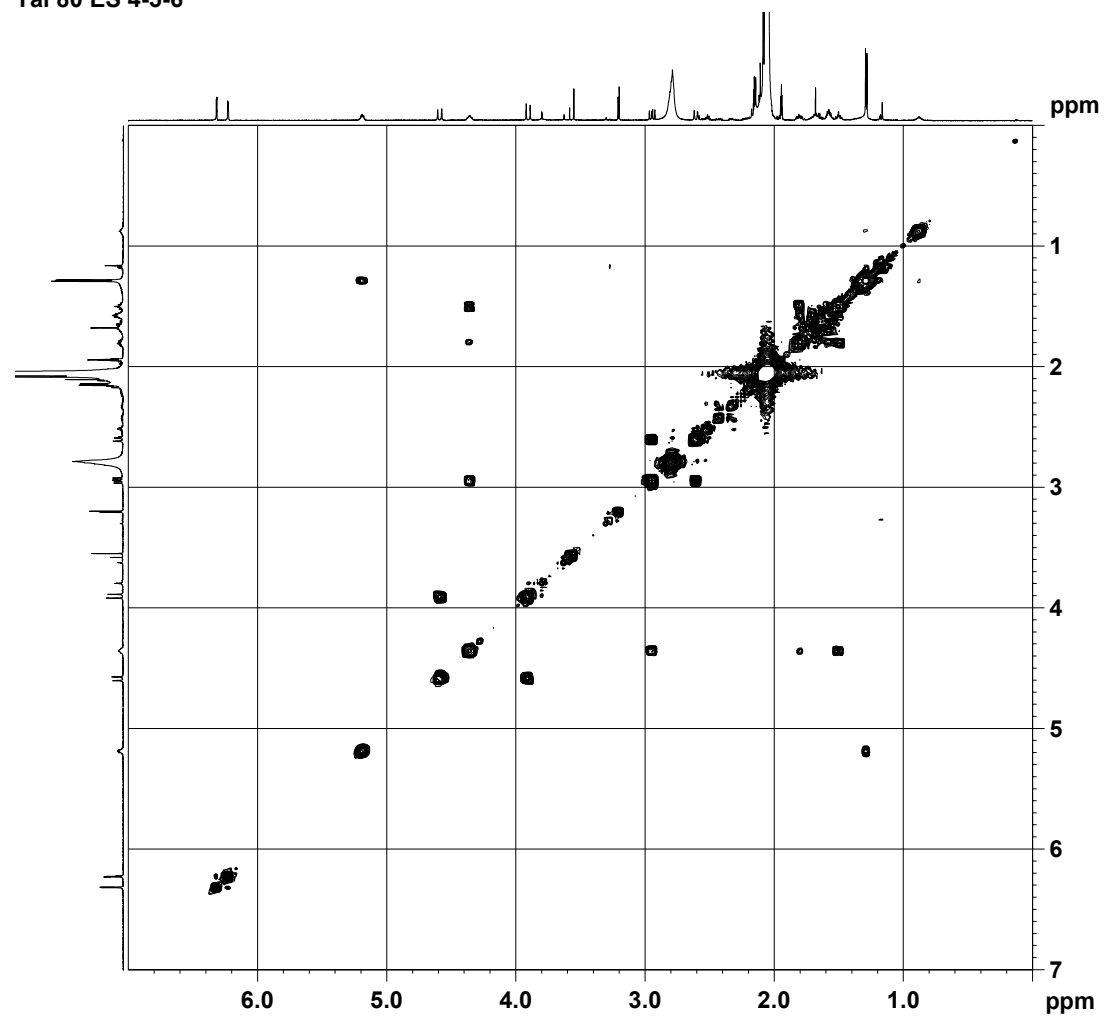


S34. ¹H NMR (600 MHz, CD₃COCD₃) spectrum of compound 8.



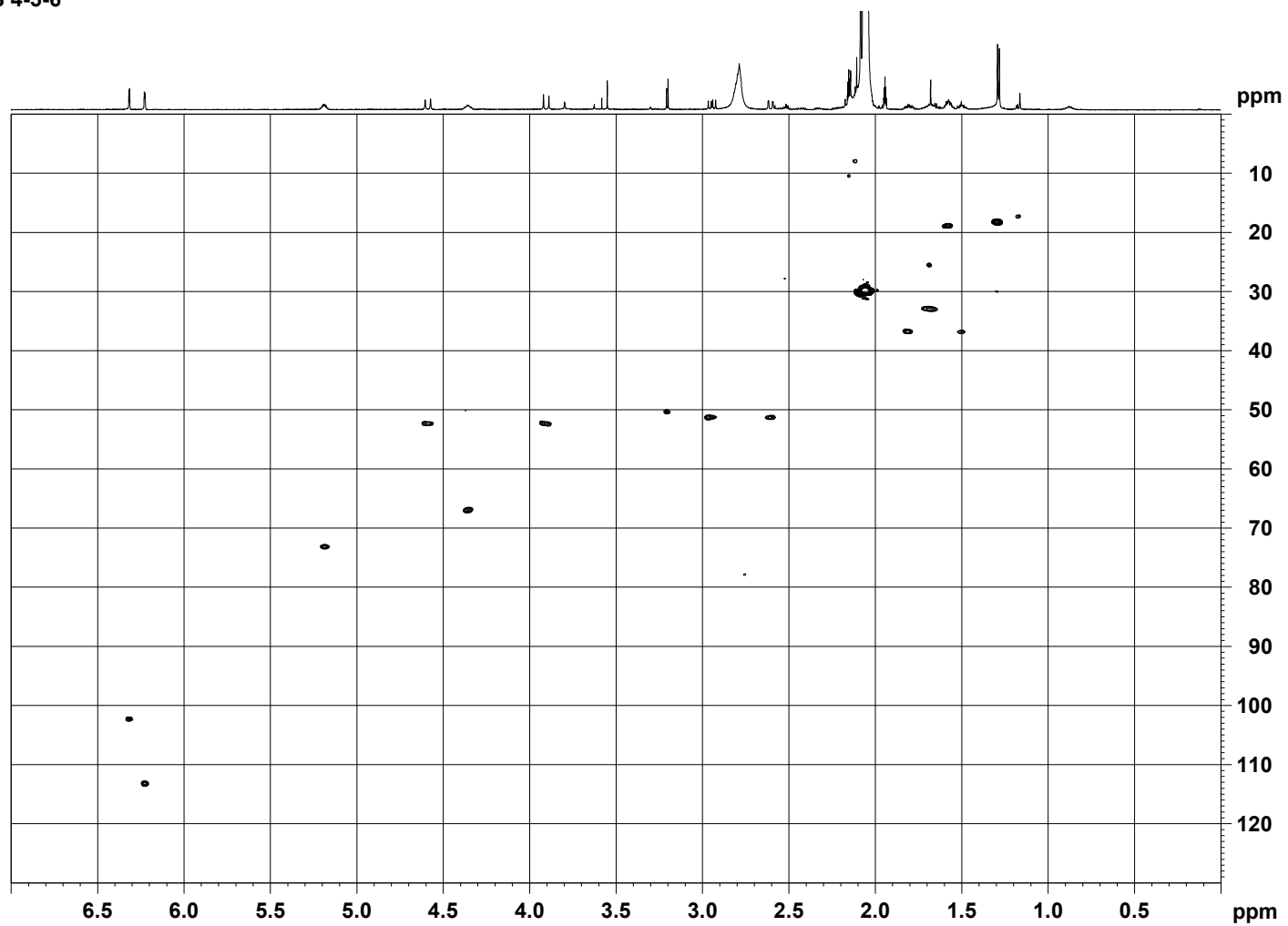
S35. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 8.

Tal 80 ES 4-5-6



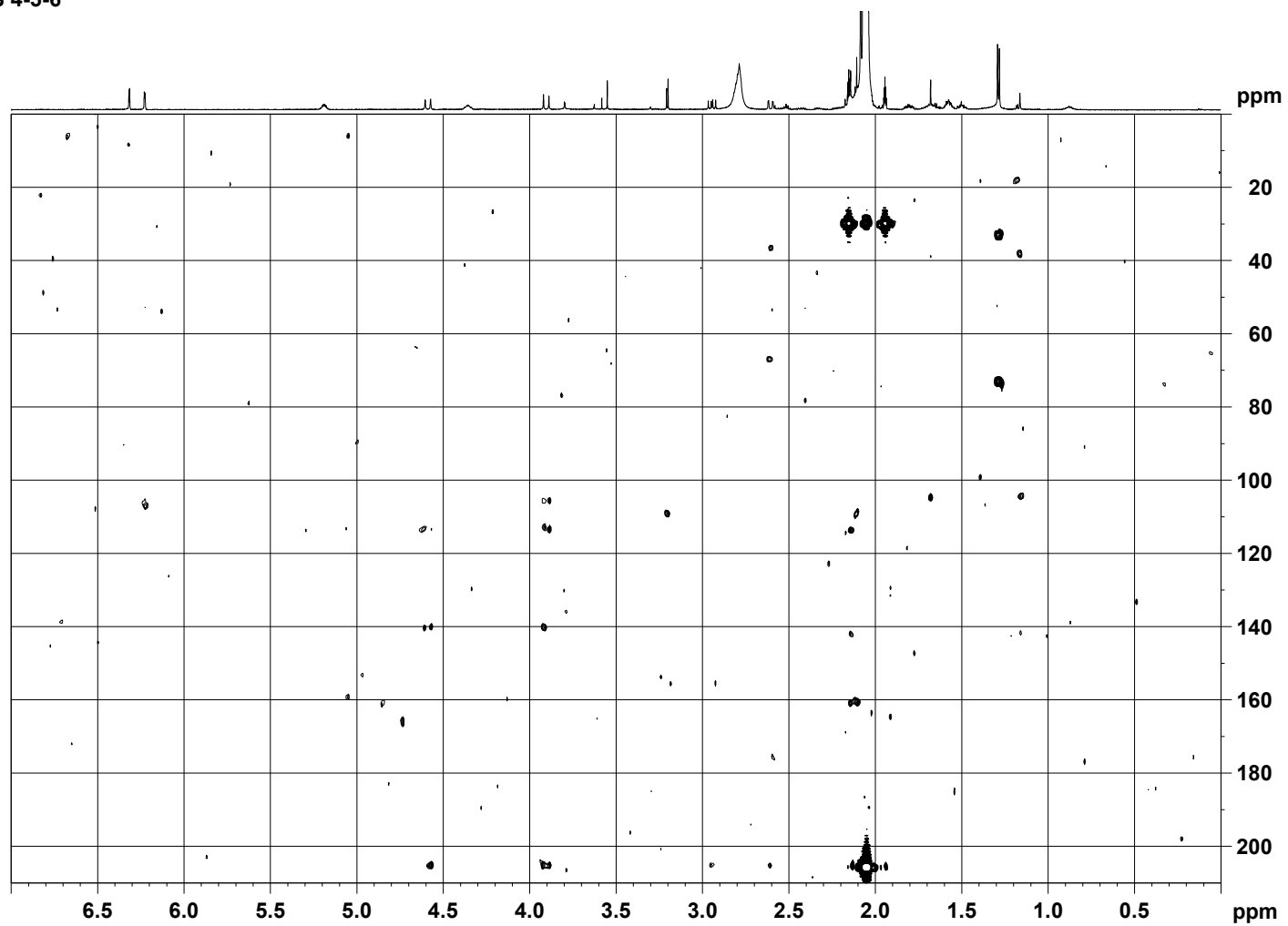
S36. ^1H - ^1H COSY (600 MHz, CD_3COCD_3) spectrum of compound 8.

Tal 80 ES 4-5-6



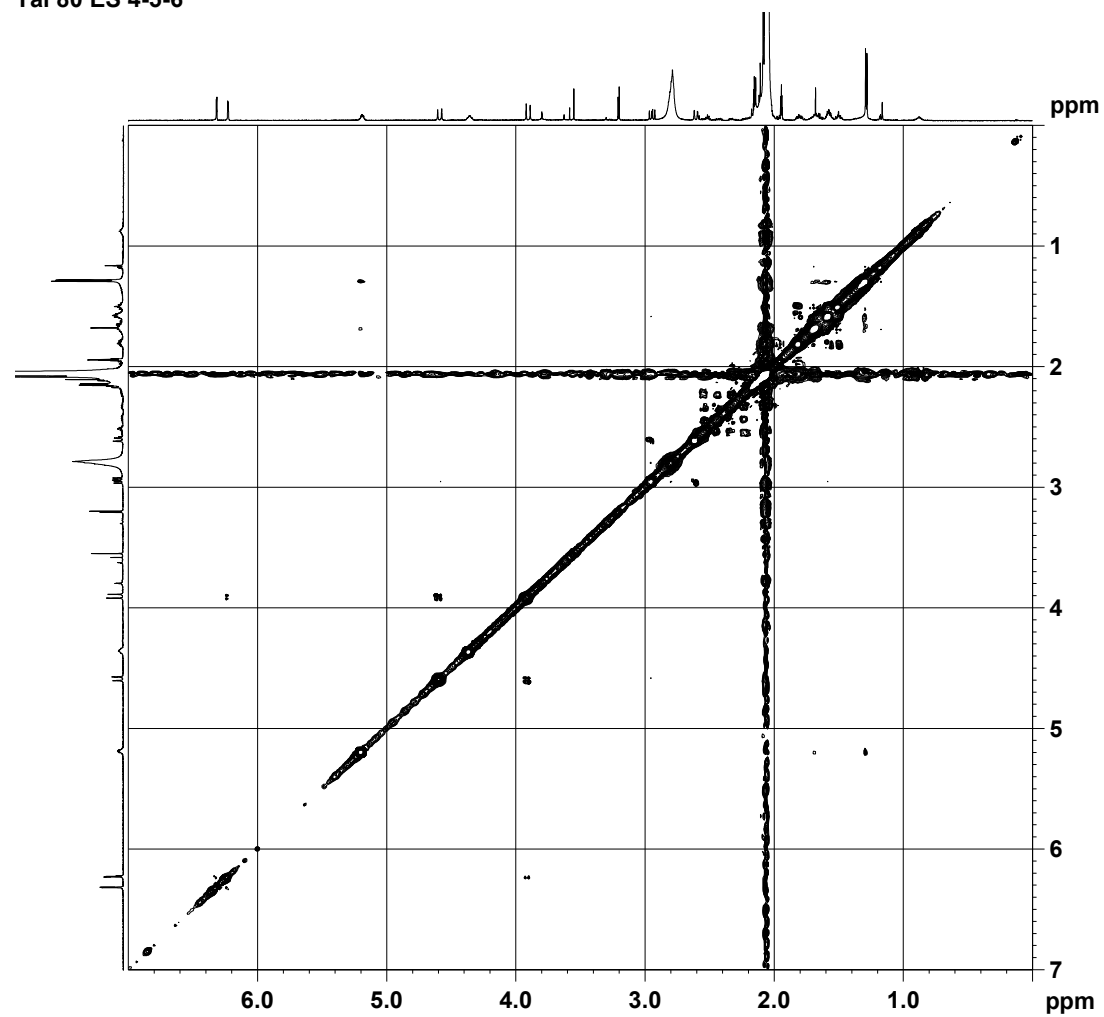
S37. HSQC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 8.

Tal 80 ES 4-5-6

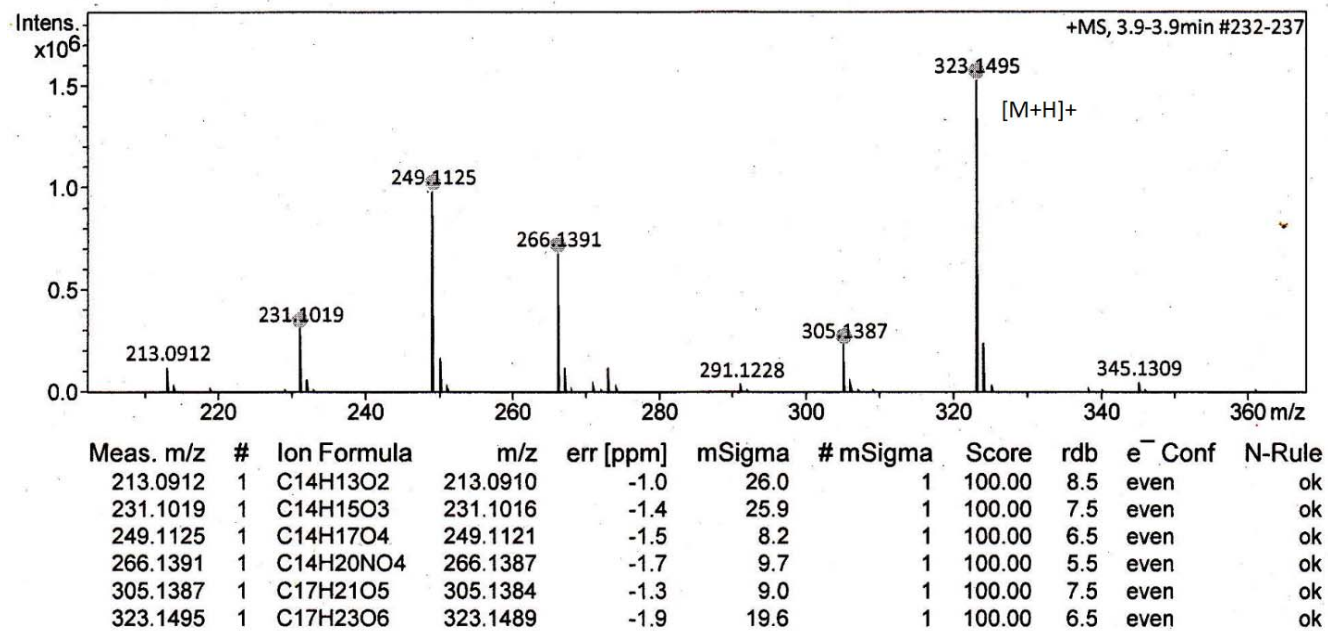


S38. HMBC (600 and 150 MHz, CD_3COCD_3) spectrum of compound 8.

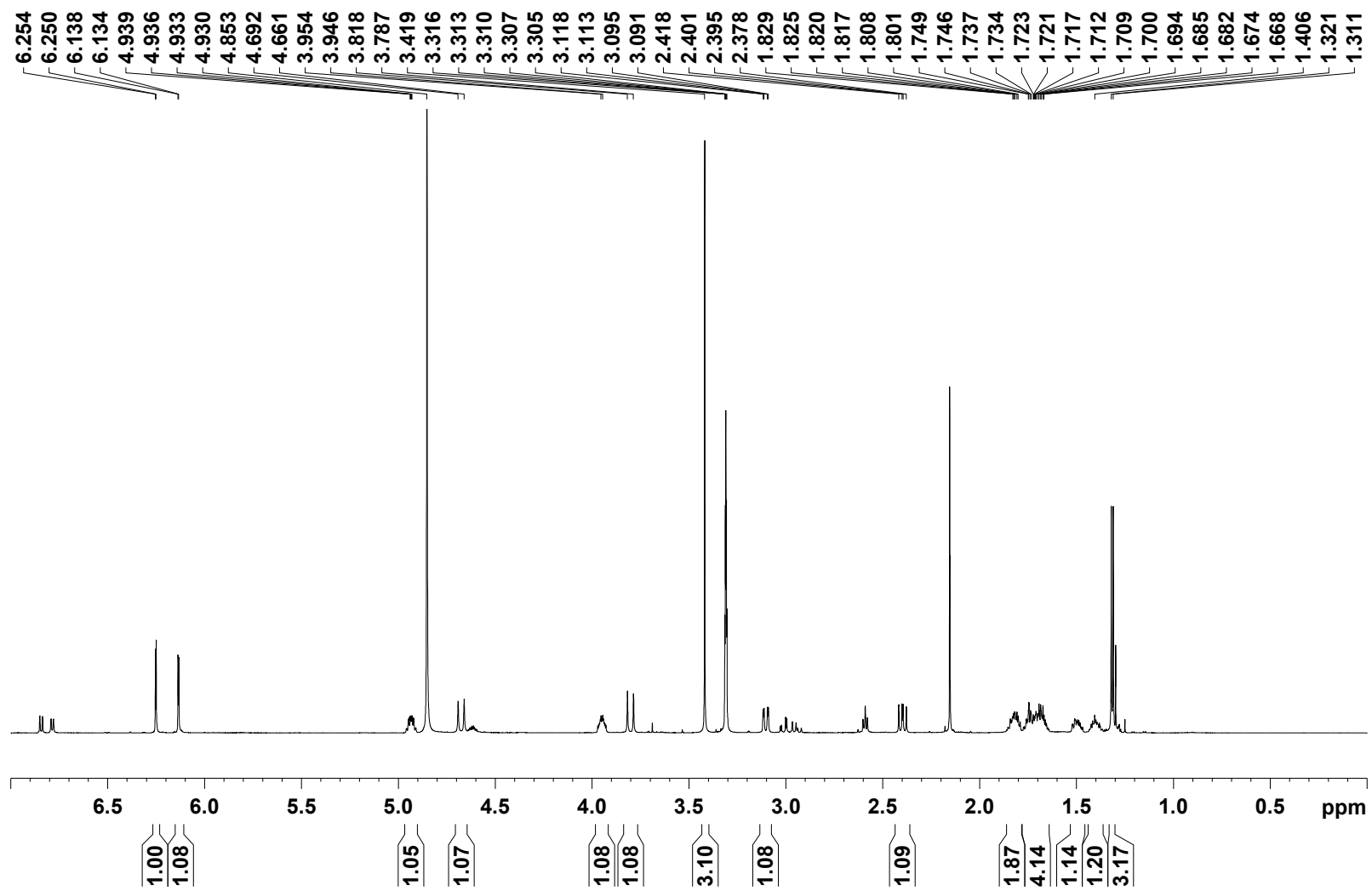
Tal 80 ES 4-5-6



S39. ROESY (600 MHz, CD₃COCD₃) spectrum of compound 8.

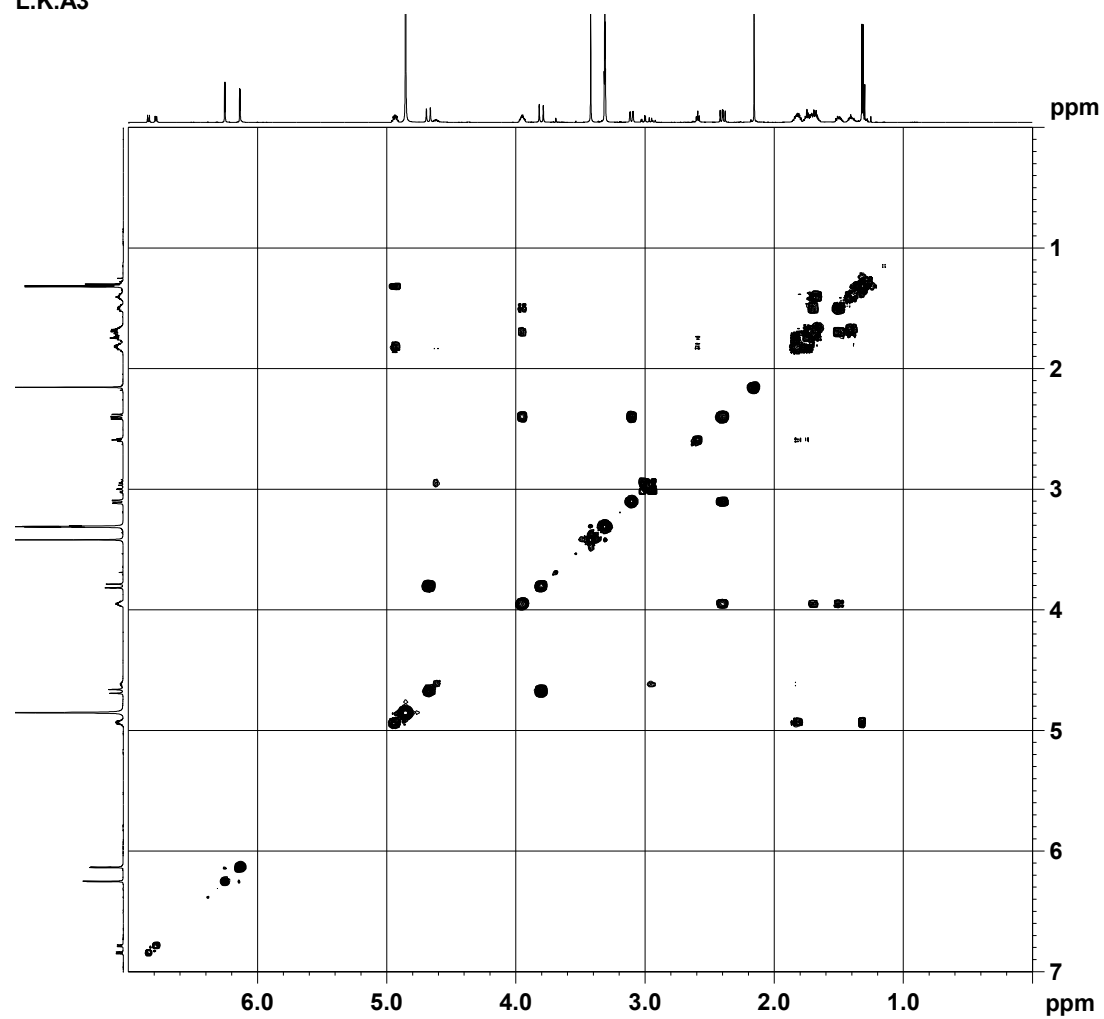


S40. HRESIMS spectrum of compound 9.

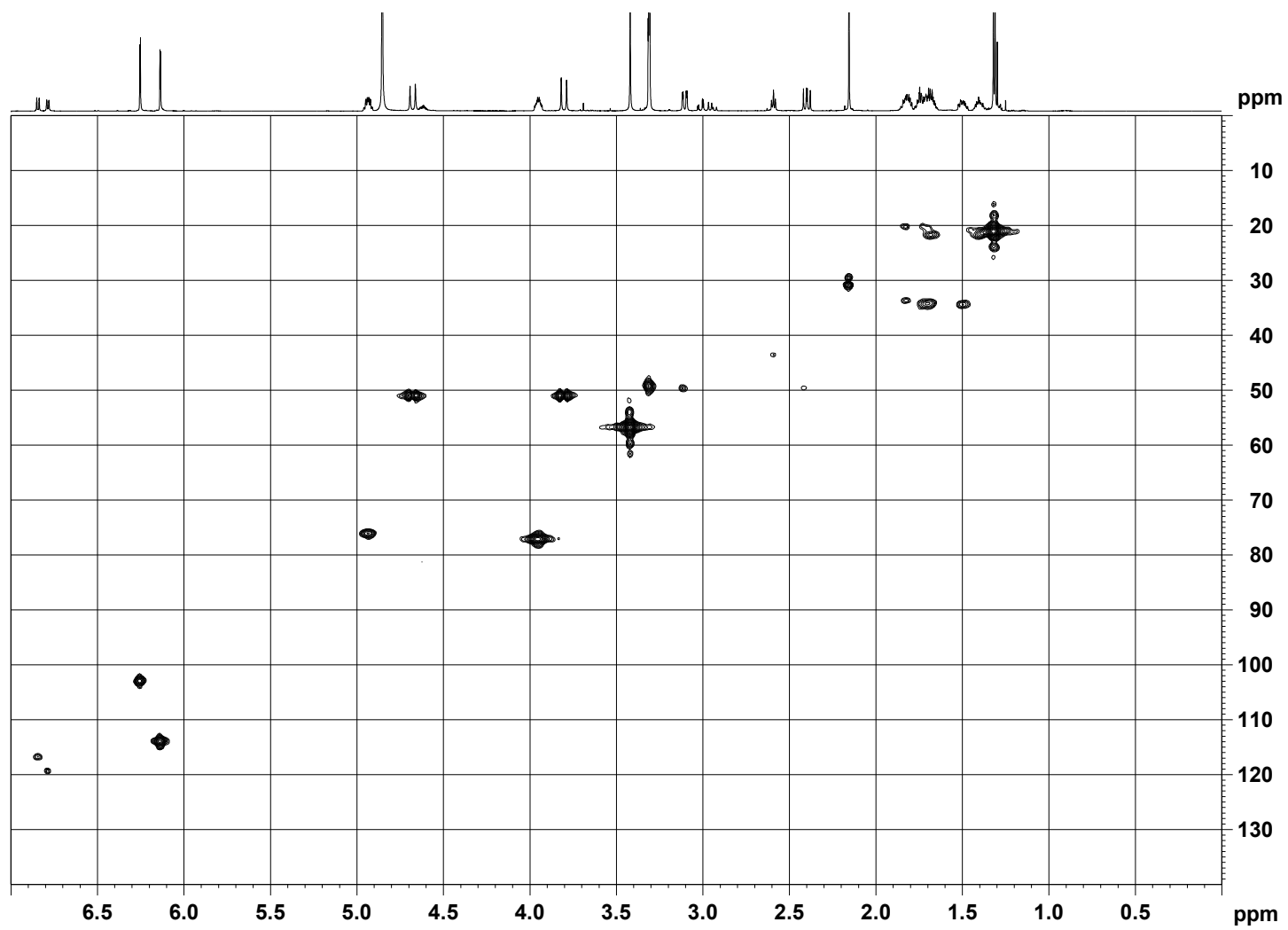


S41. ^1H NMR (600 MHz, CD_3OD) spectrum of compound 9.

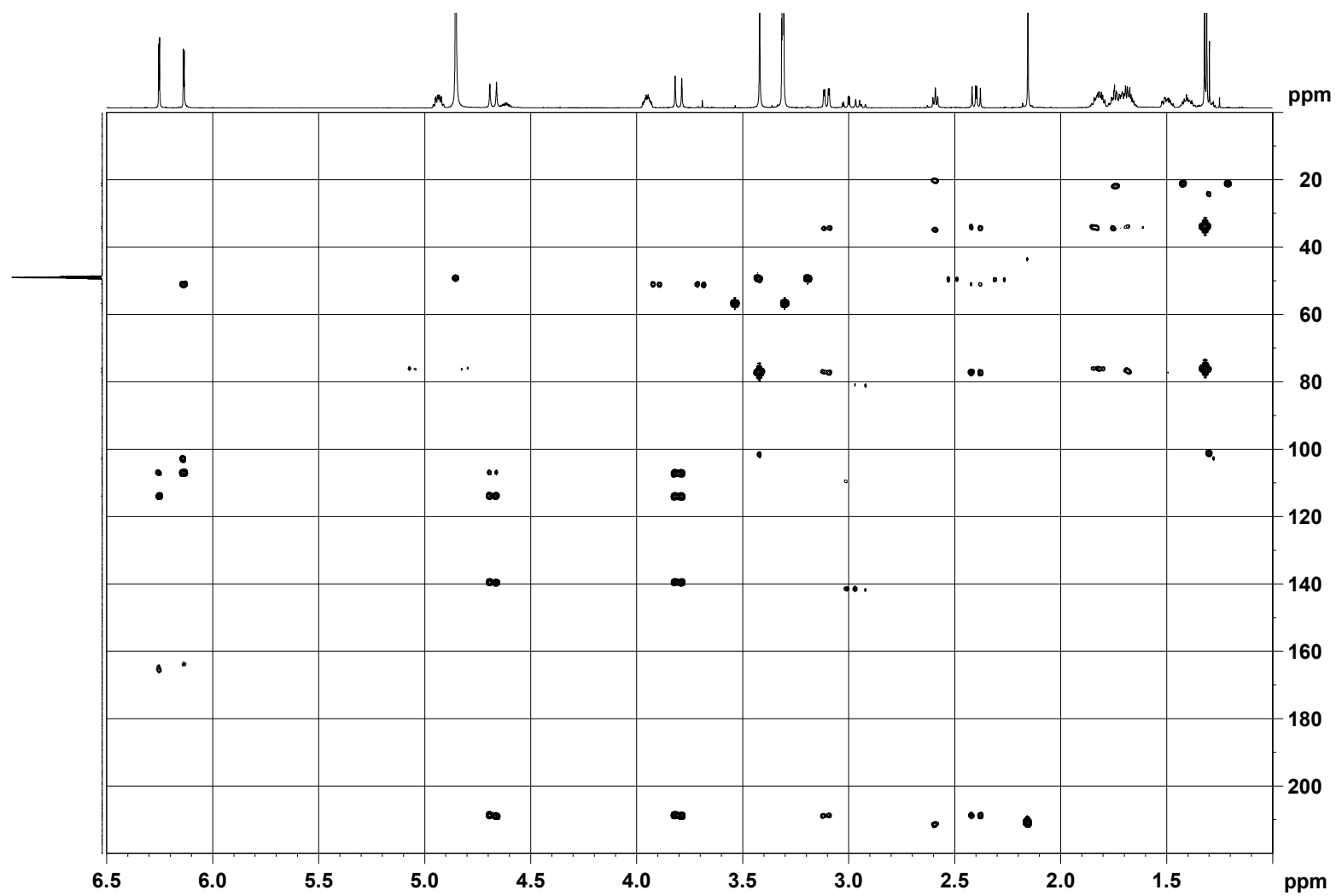
L.K.A3



S42. ^1H - ^1H COSY (600 MHz, CD_3OD) spectrum of compound **9**.

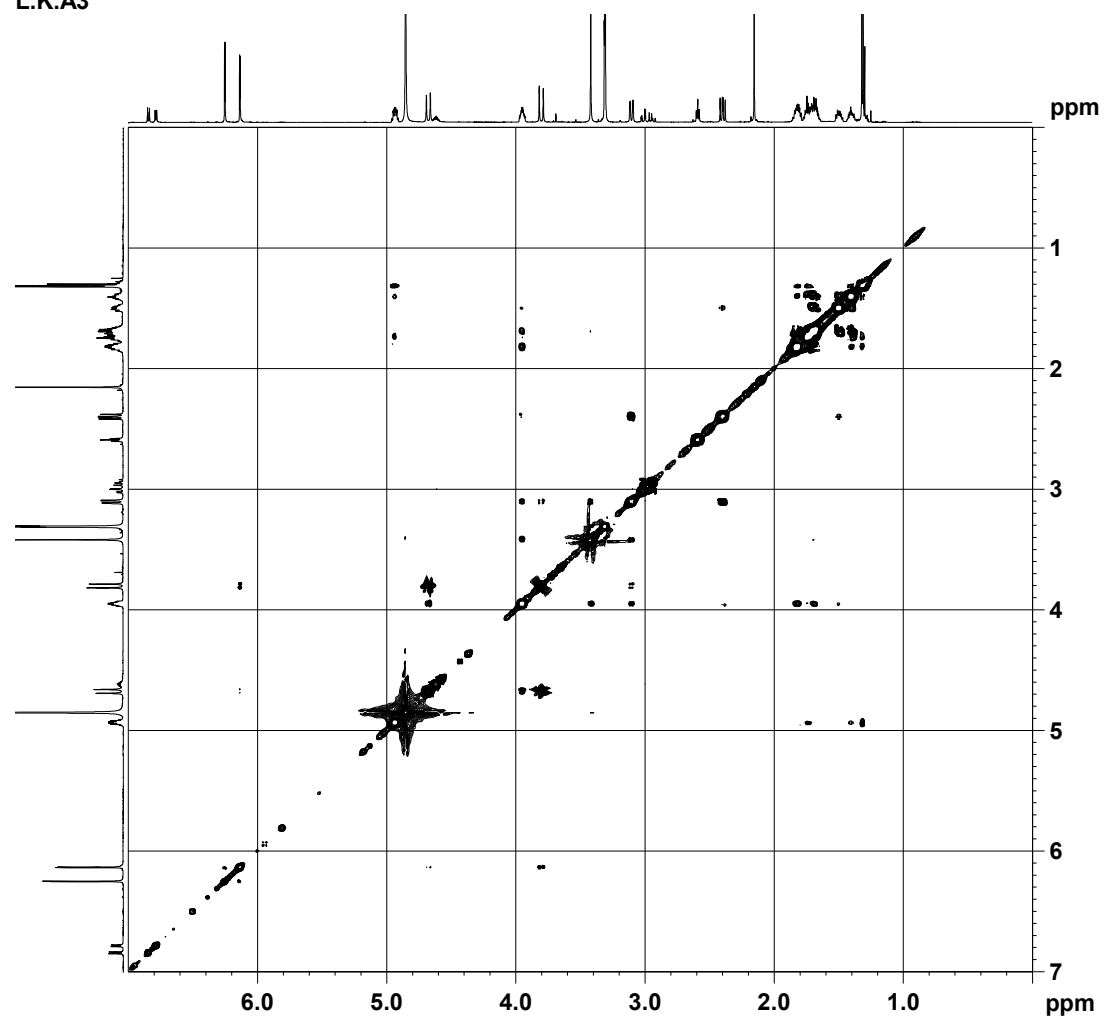


S43. HSQC (600 and 150 MHz, CD₃OD) spectrum of compound 9.

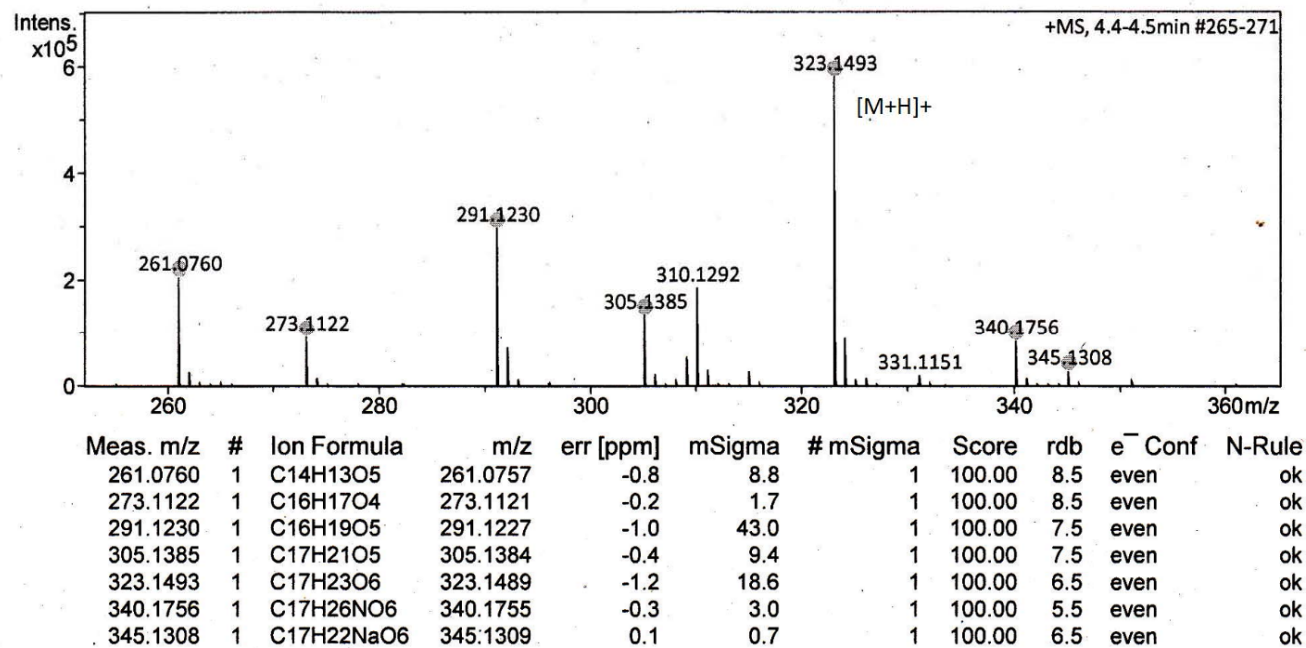


S44. HMBC (600 and 150 MHz, CD_3OD) spectrum of compound 9.

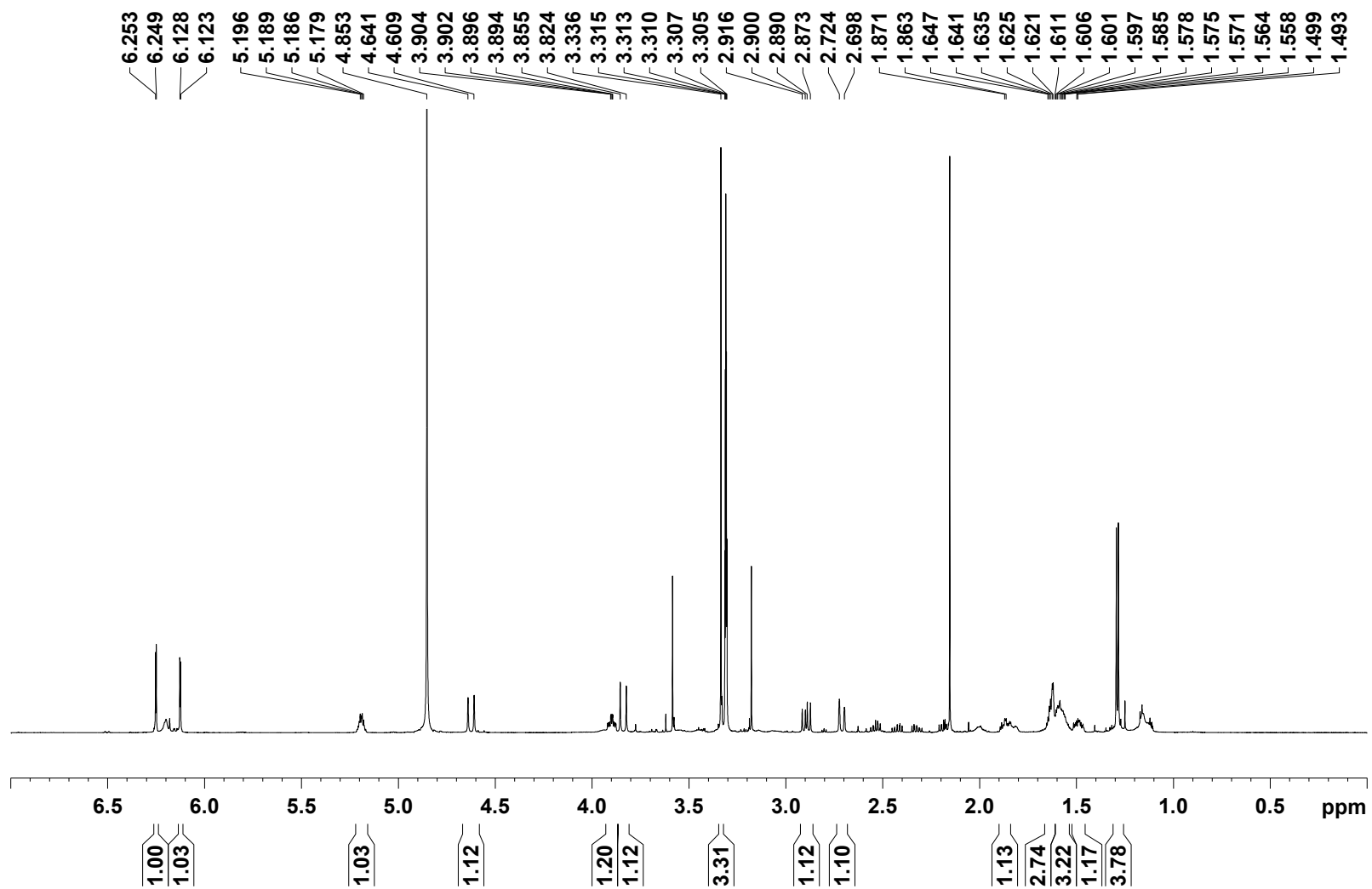
L.K.A3



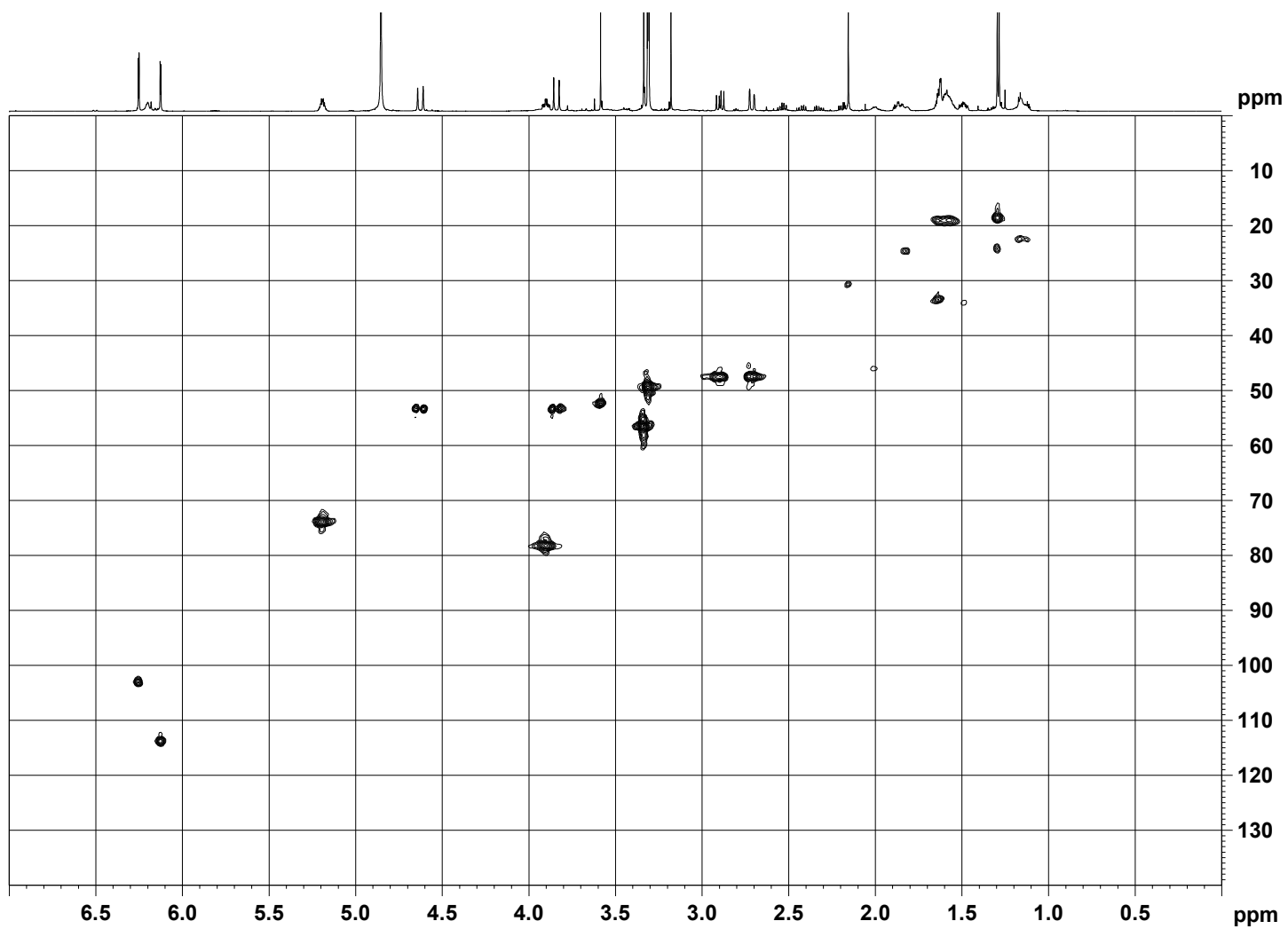
S45. ROESY (600 MHz, CD₃OD) spectrum of compound 9.



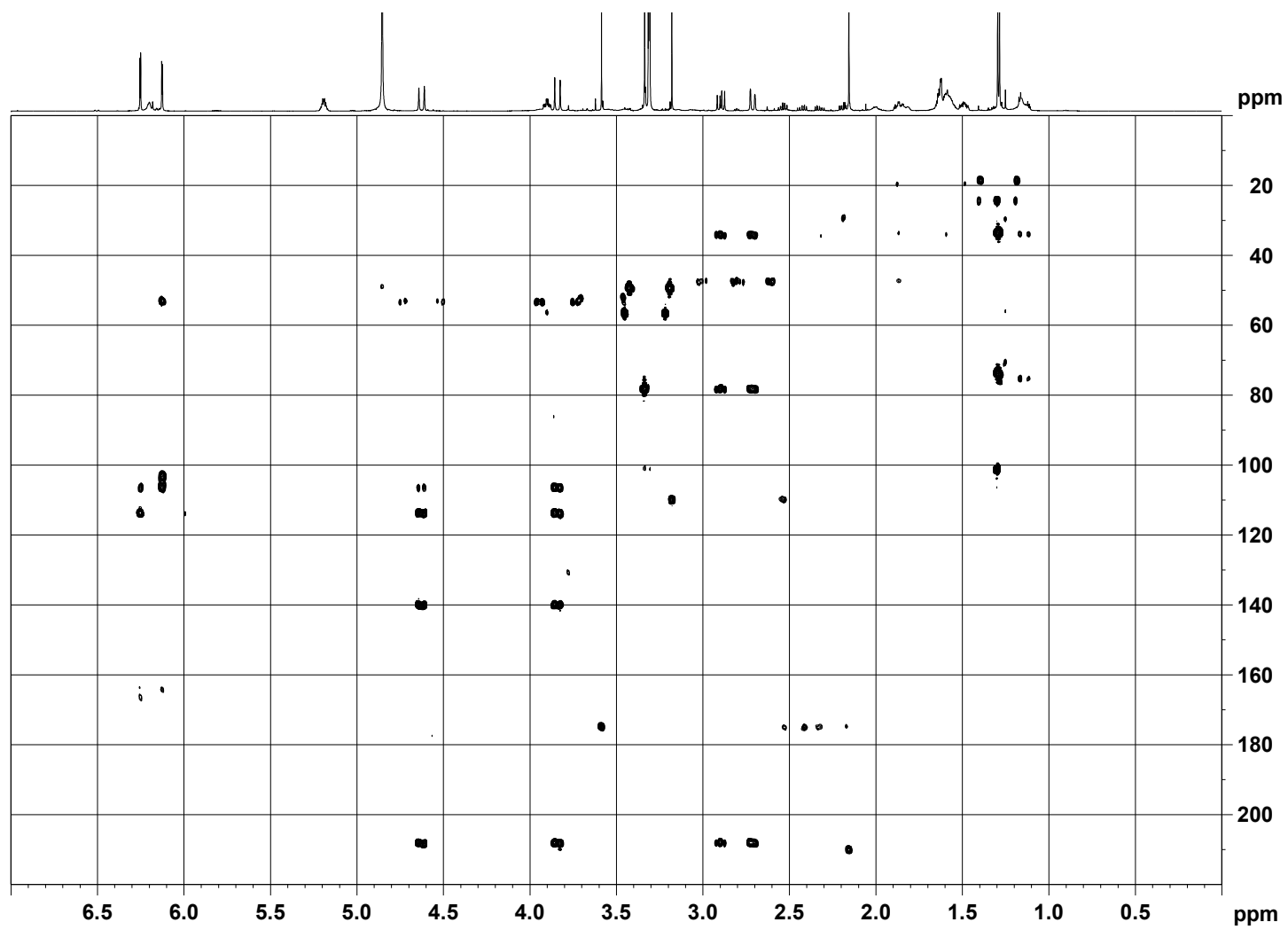
S46. HRMSIMS spectrum of compound 10.



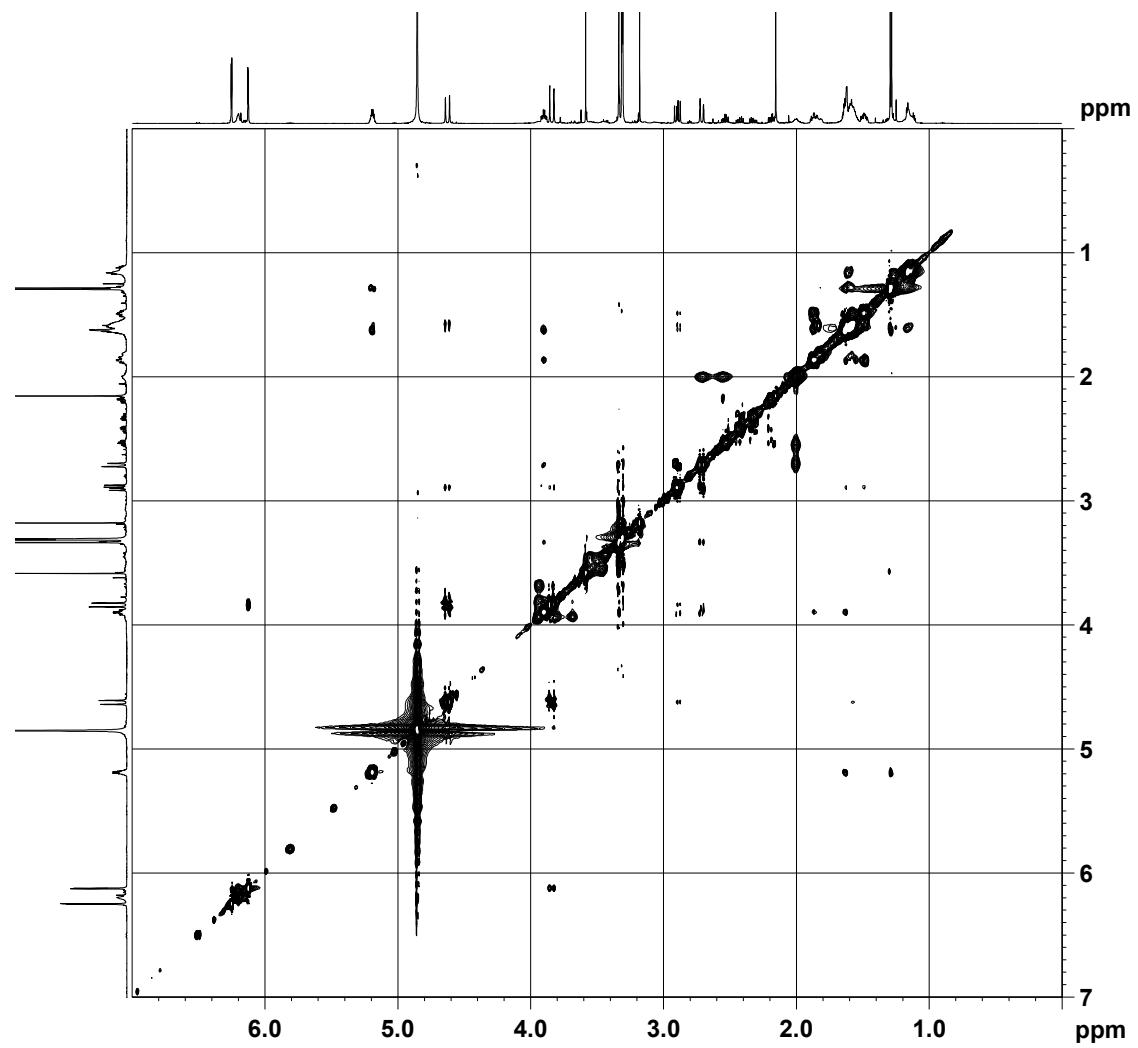
S47. ¹H NMR (600 MHz, CD₃OD) spectrum of compound 10.



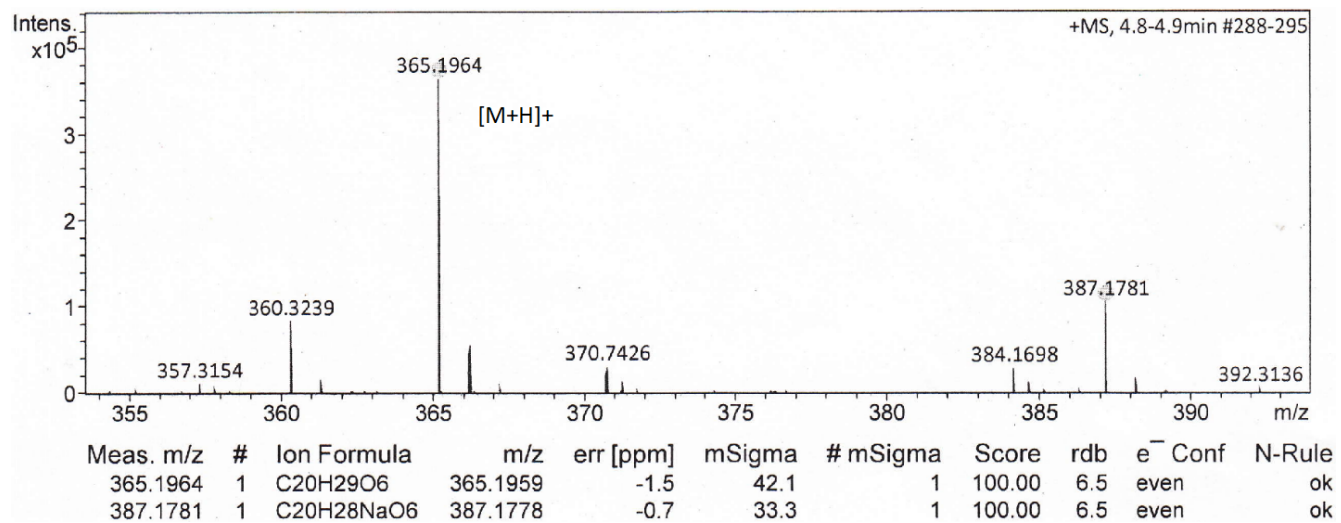
S49. HSQC (600 and 150 MHz, CD₃OD) spectrum of compound 10.



S50. HMBC (600 and 150 MHz, CD₃OD) spectrum of compound 10.

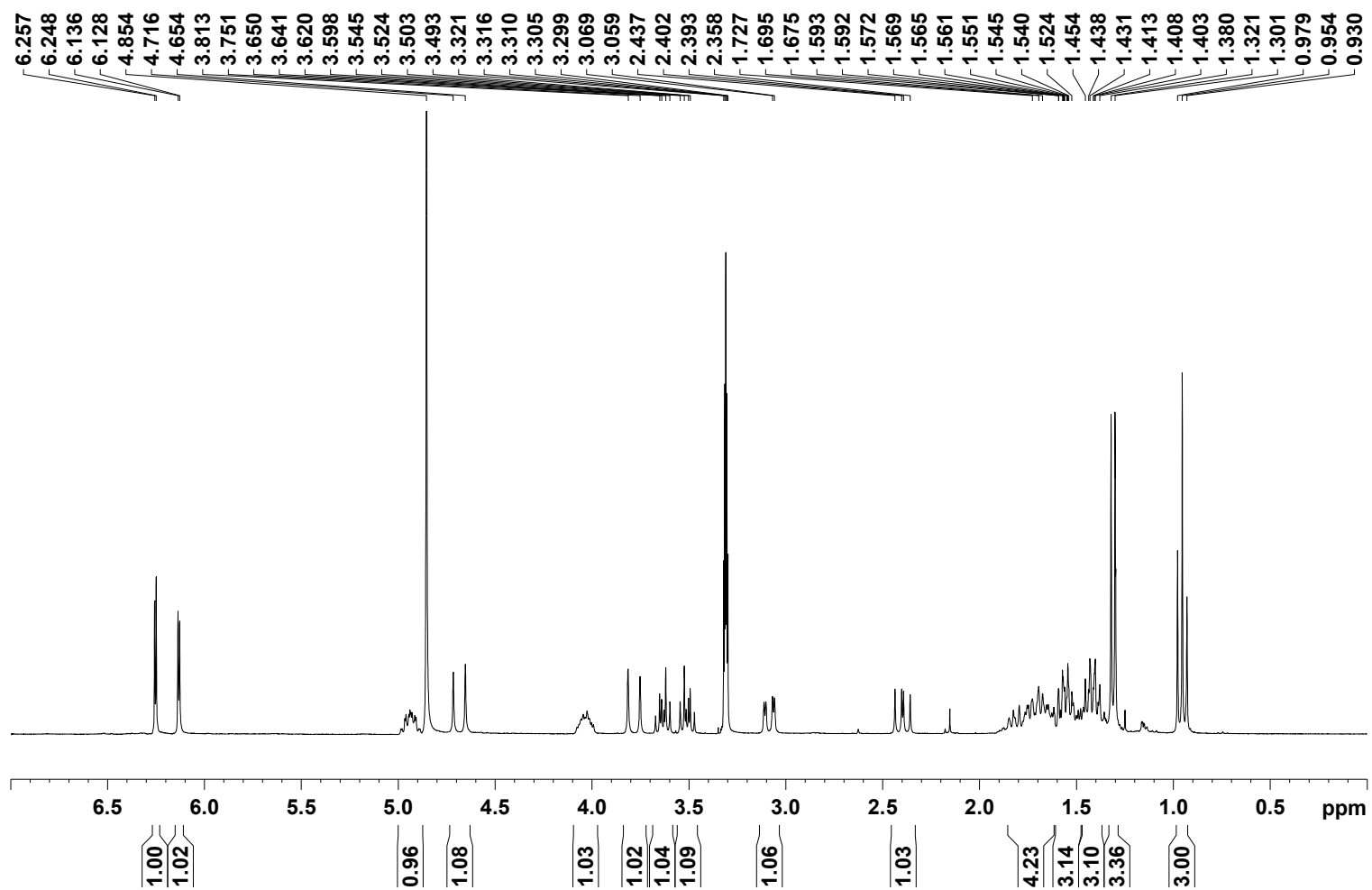


S51. ROESY (600 MHz, CD₃OD) spectrum of compound 10.



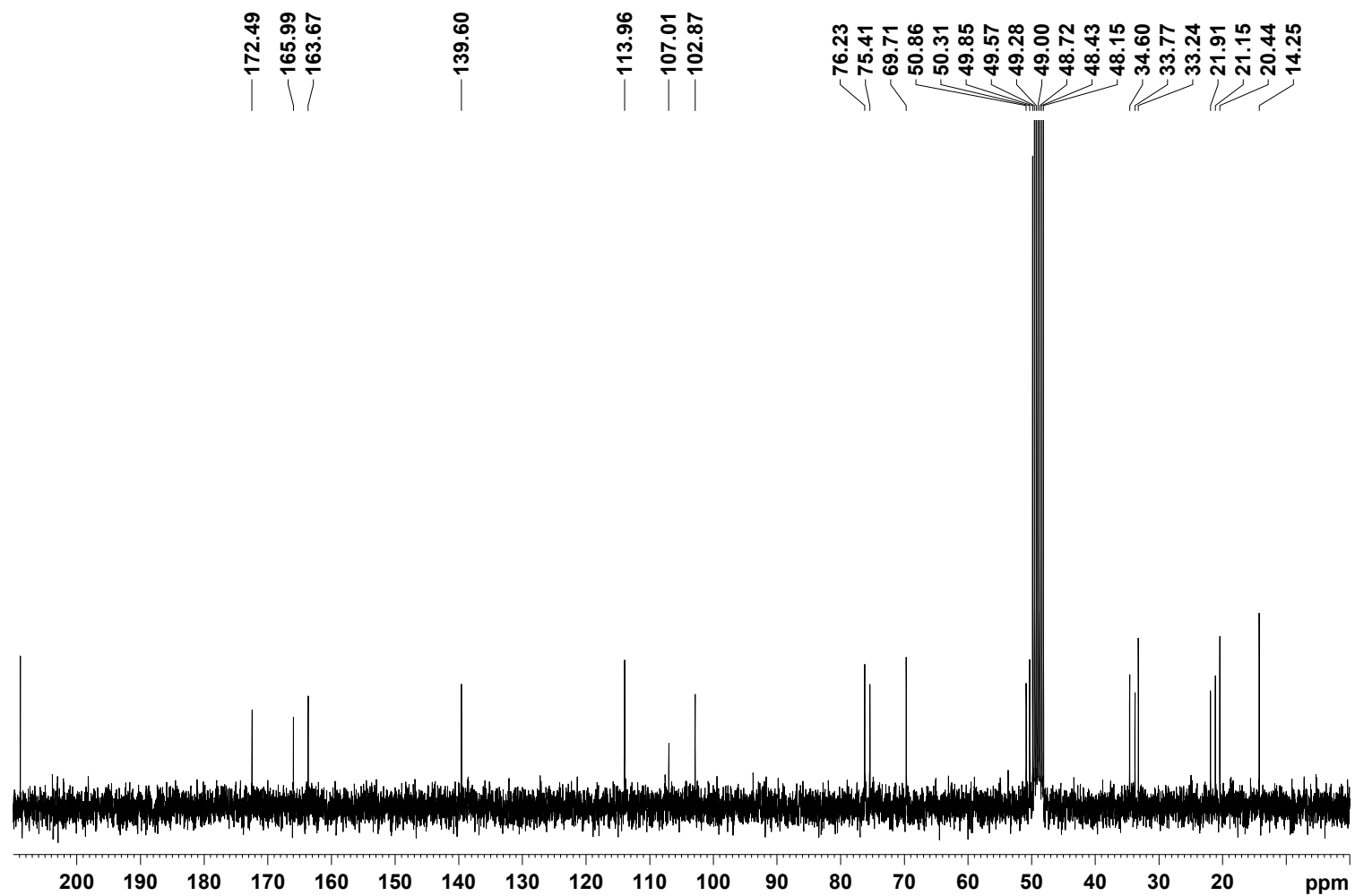
S52. HRESIMS spectrum of compound **11**.

Tal60ES5-3-3



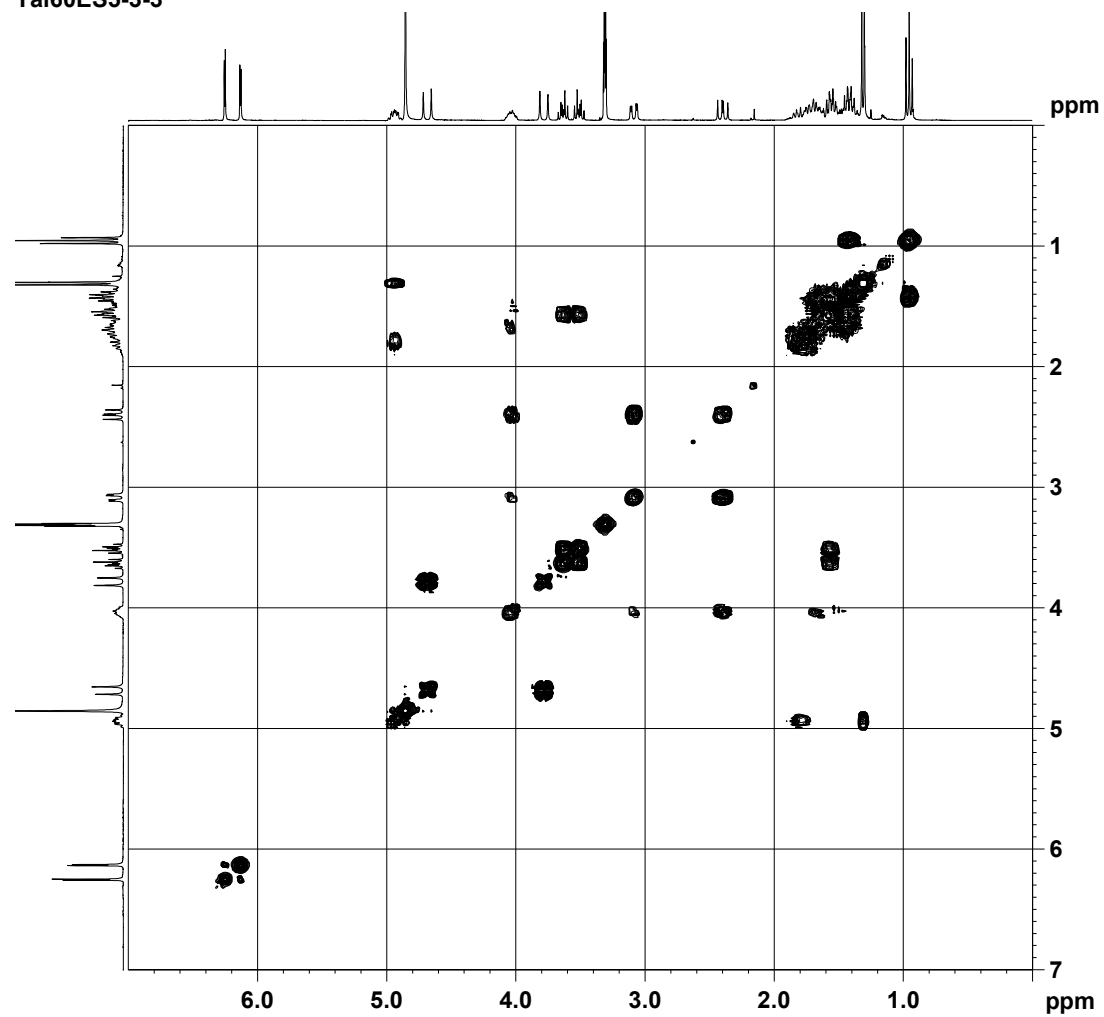
S53. ¹H NMR (300 MHz, CD₃OD) spectrum of compound 11.

Tal60ES5-3-3



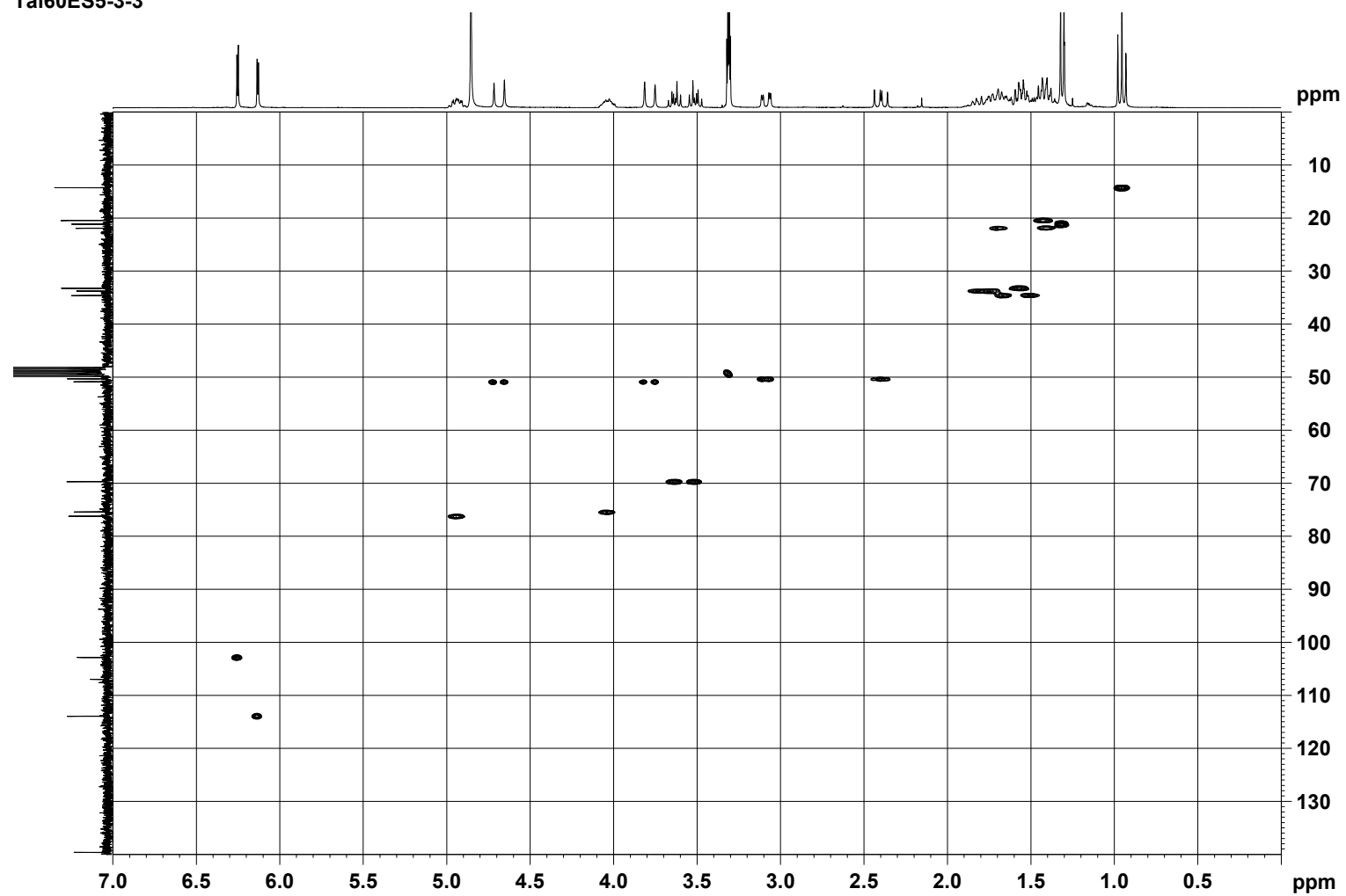
S54. ^{13}C NMR (75 MHz, CD_3OD) spectrum of compound **11**.

Tal60ES5-3-3



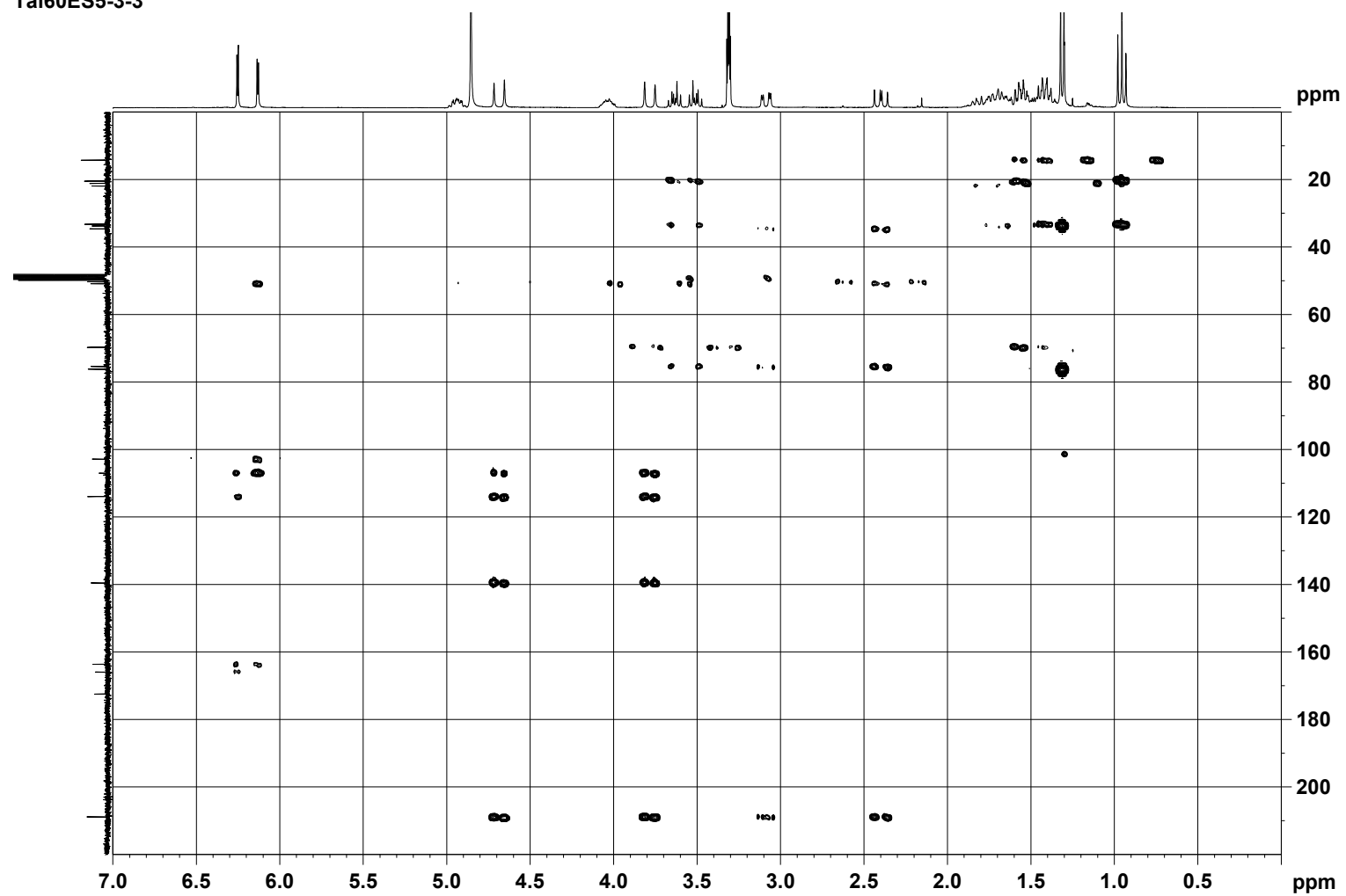
S55. ^1H - ^1H COSY (300 MHz, CD_3OD) spectrum of compound 11.

Tal60ES5-3-3



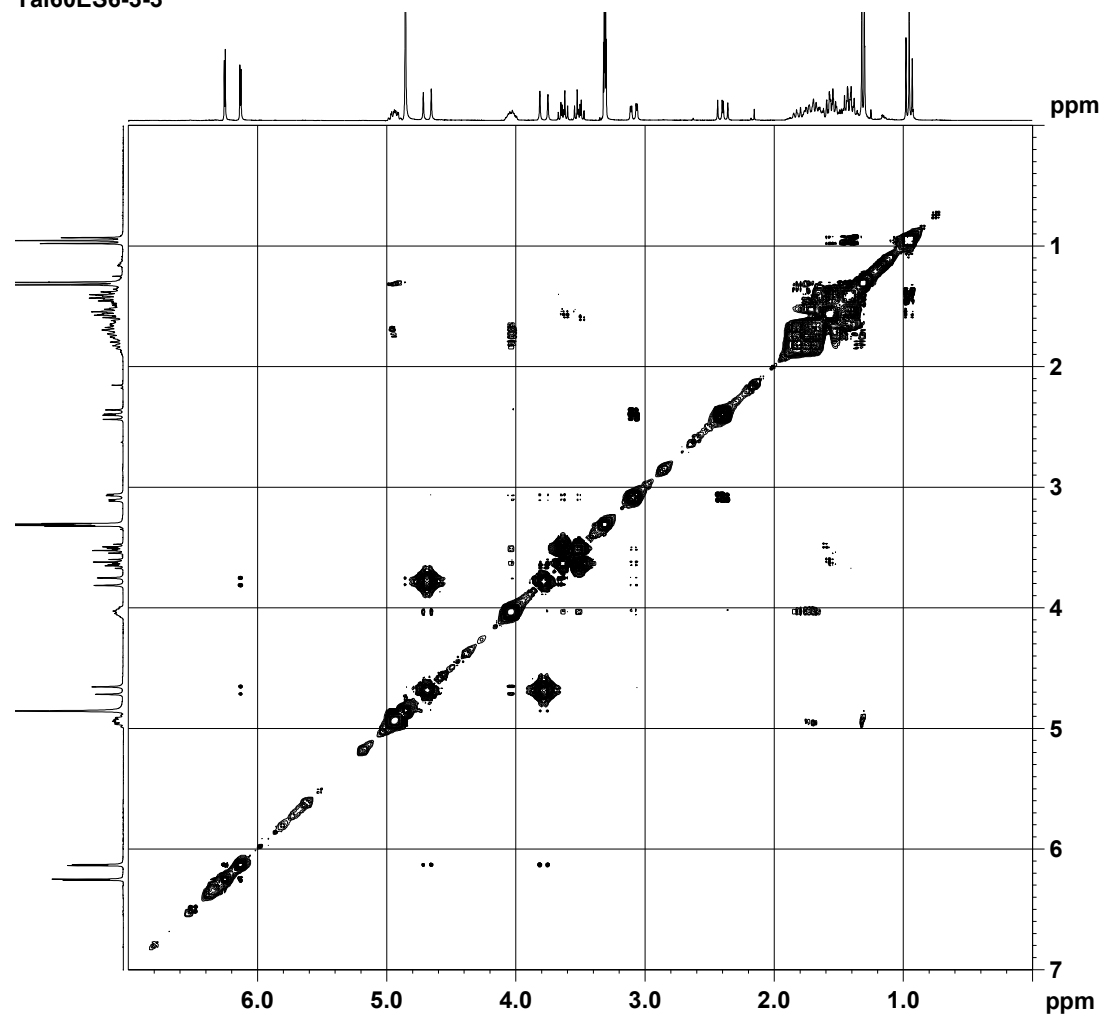
S56. HSQC (300 and 75 MHz, CD₃OD) spectrum of compound 11.

Tal60ES5-3-3

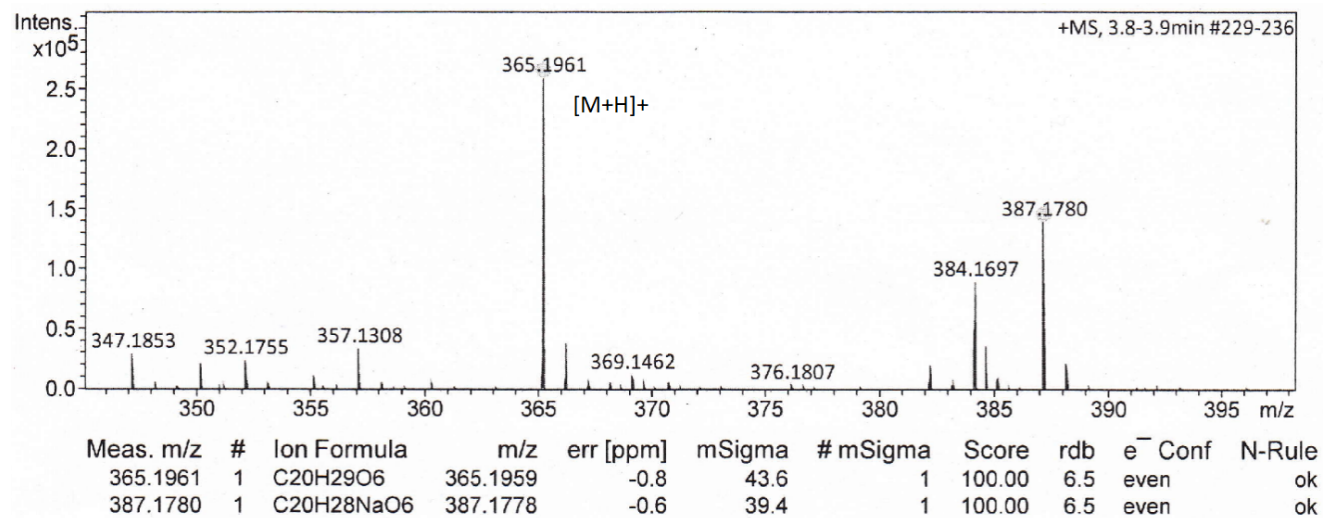


S57. HMBC (300 and 75 MHz, CD₃OD) spectrum of compound **11**.

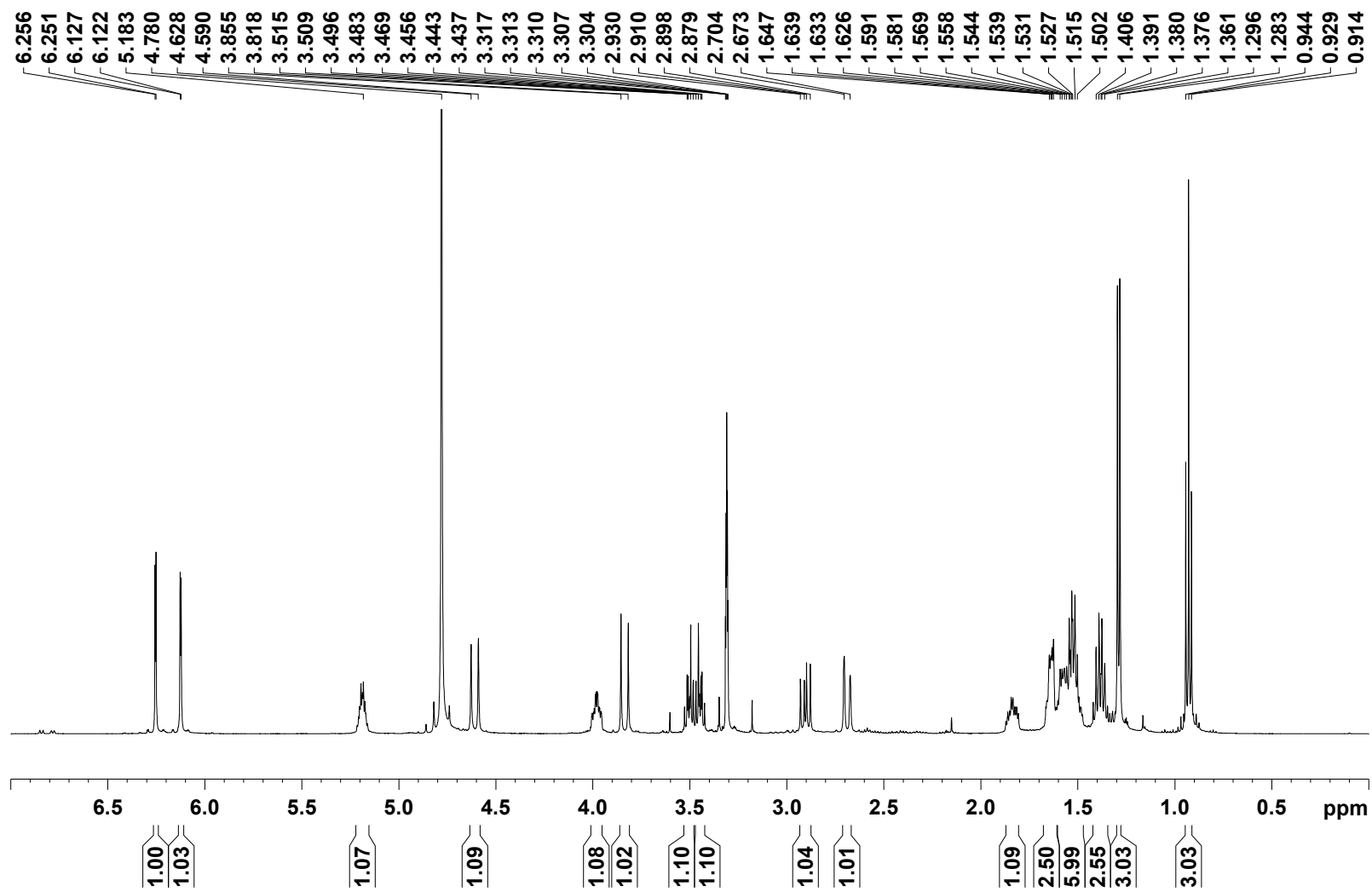
Tal60ES6-3-3



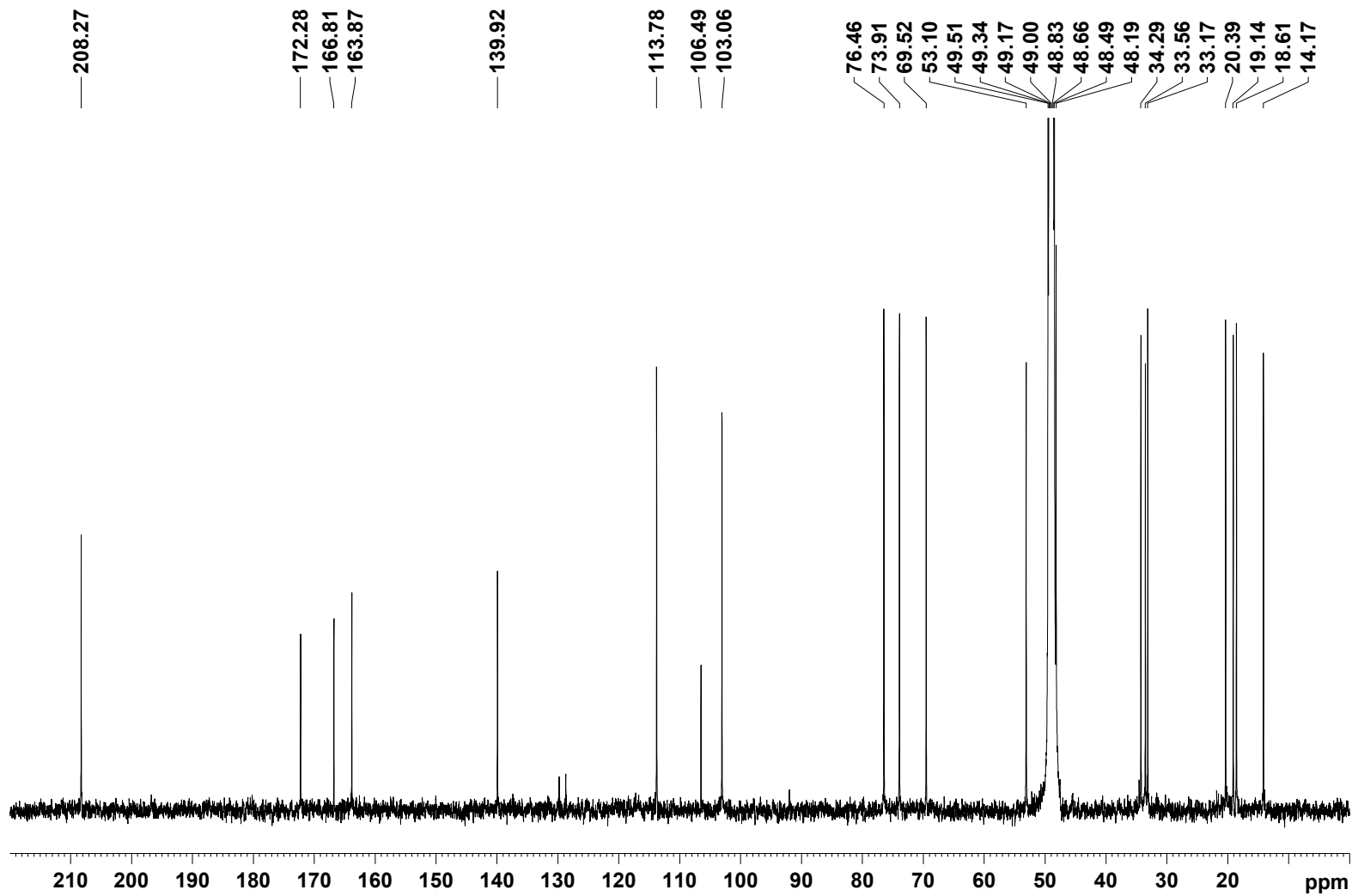
S58. ROESY (300 MHz, CD₃OD) spectrum of compound 11.



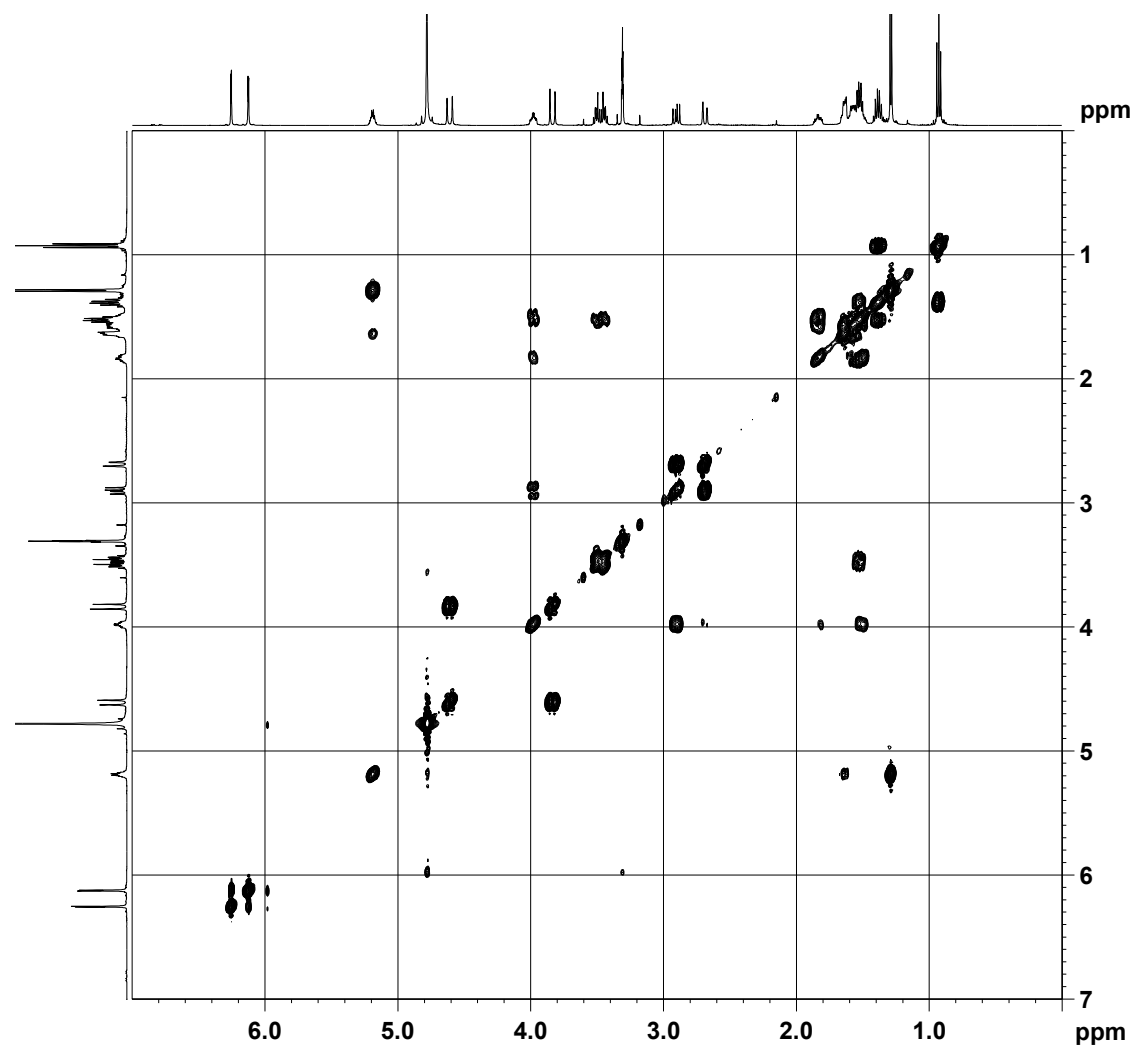
S59. HRESIMS spectrum of compound 12.



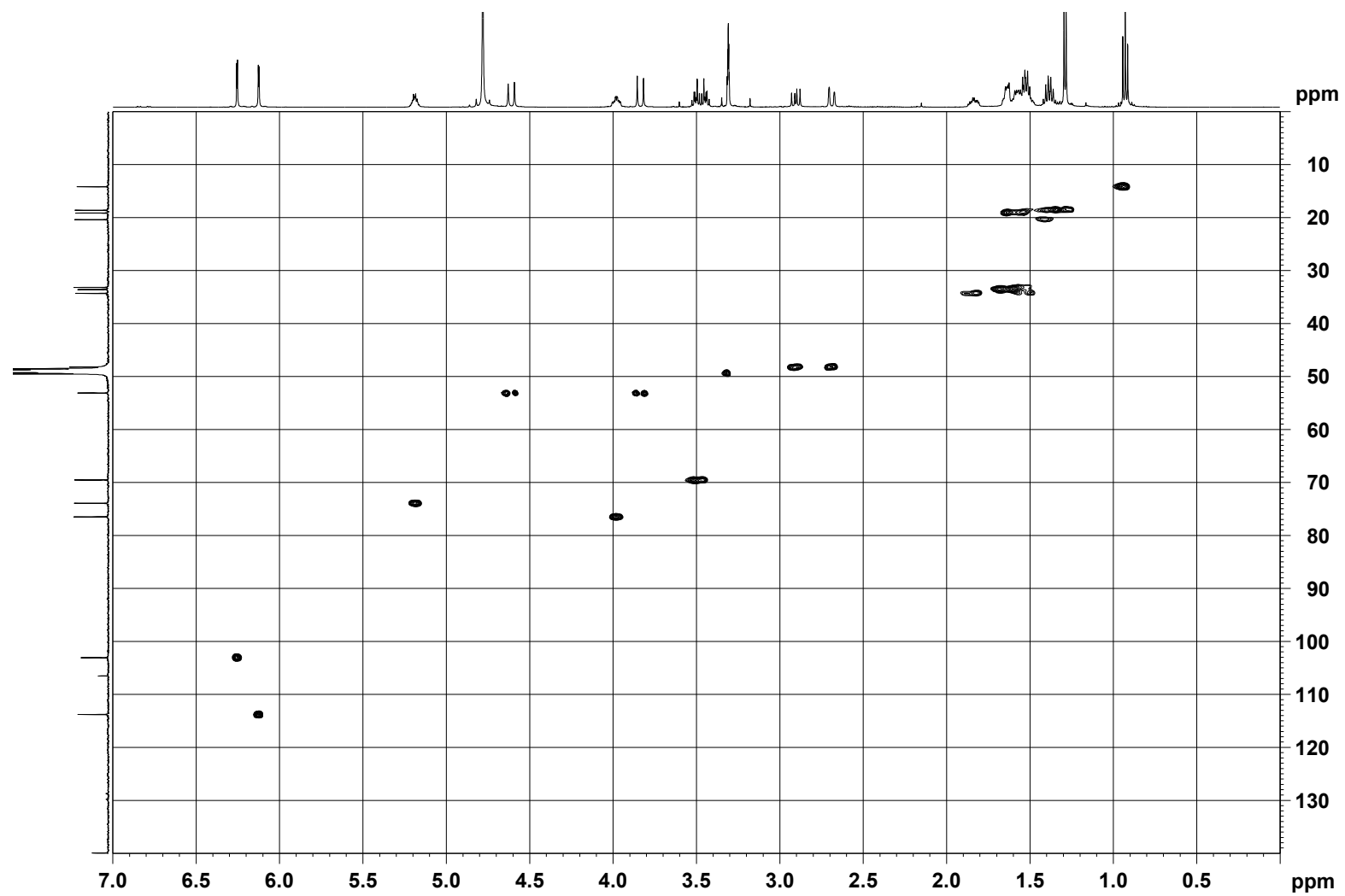
S60. ^1H NMR (500 MHz, CD_3OD) spectrum of compound 12.



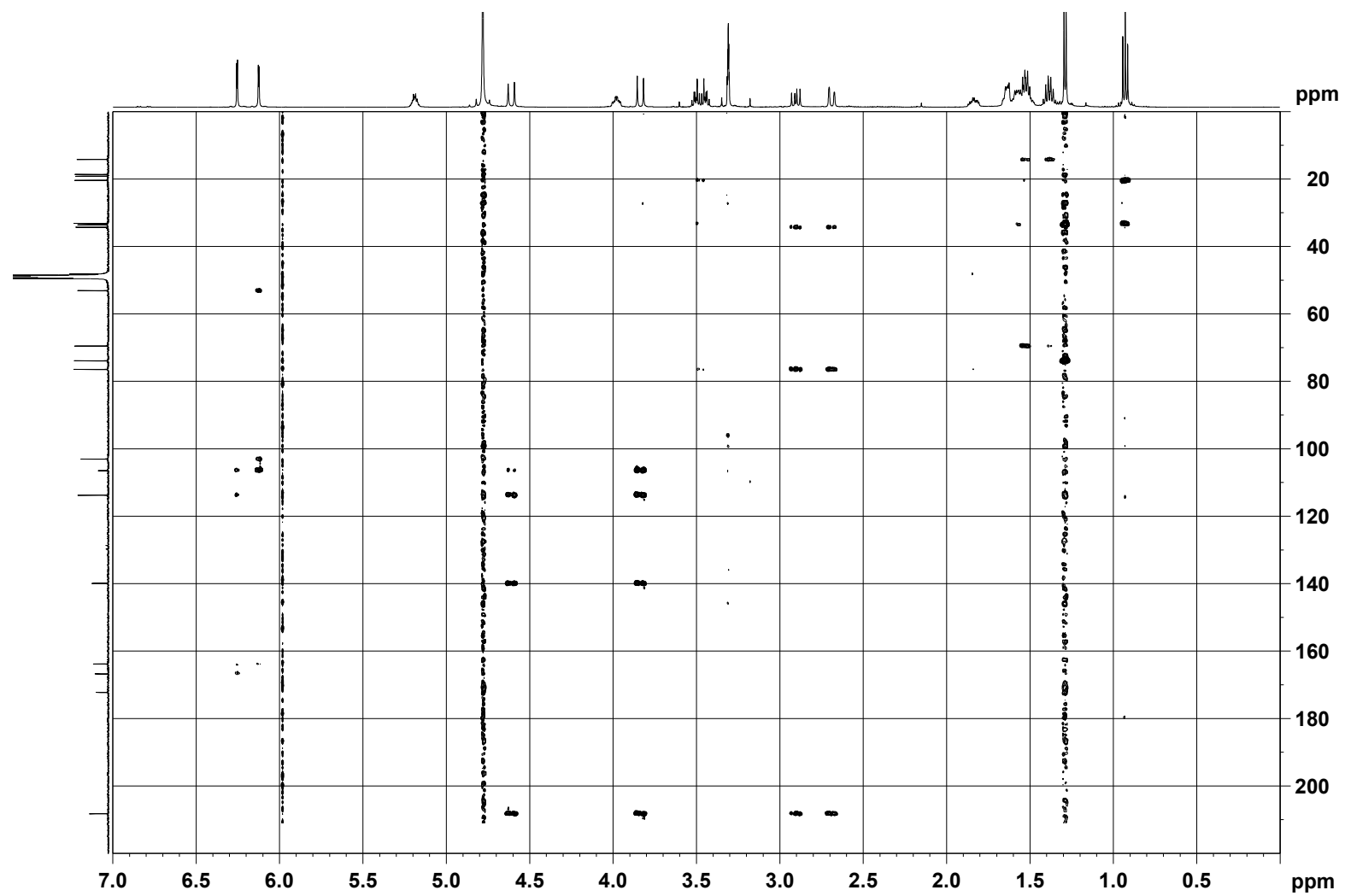
S61. ¹³C NMR (125 MHz, CD₃OD) spectrum of compound 12.



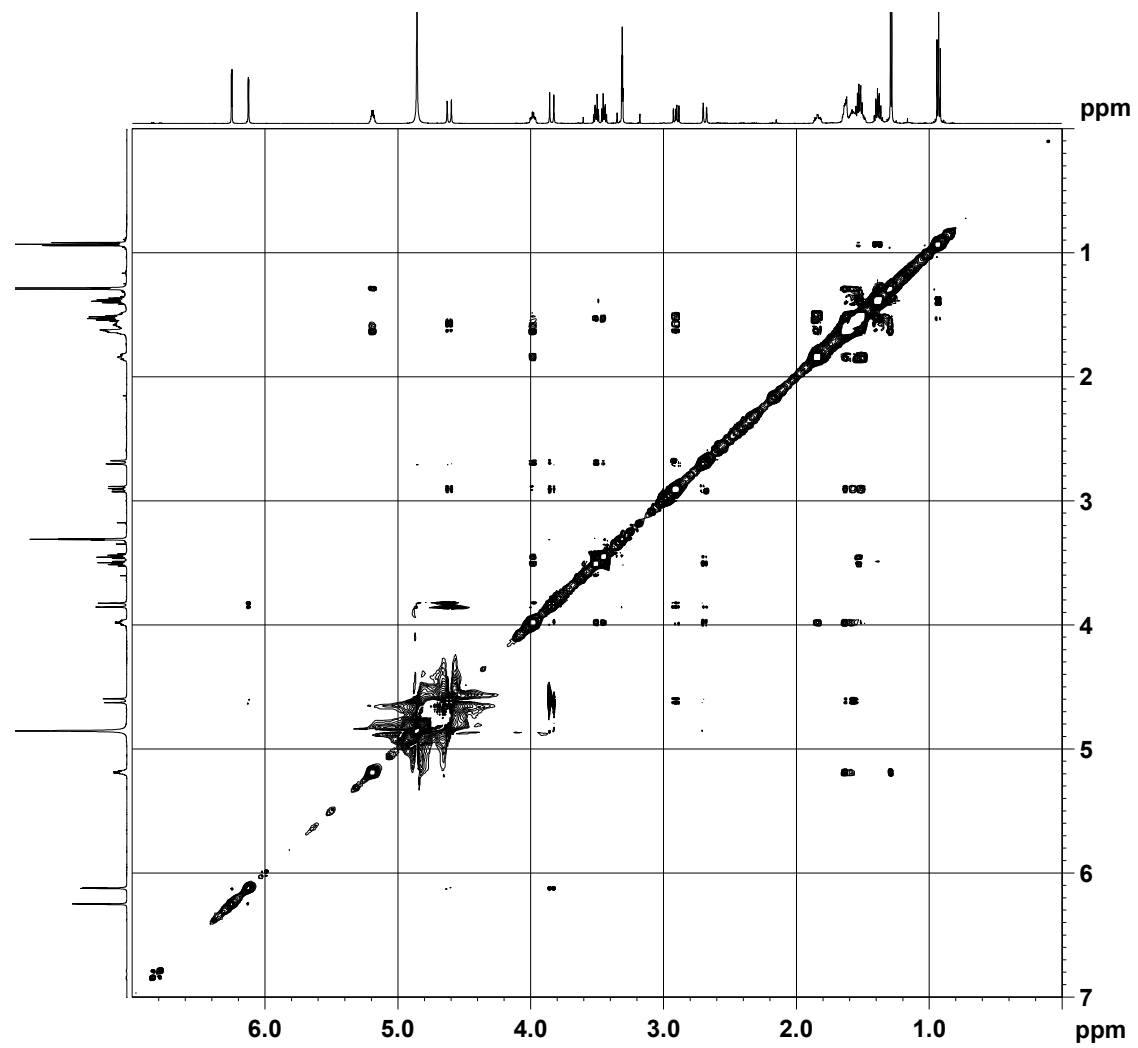
S62. ^1H - ^1H COSY (500 MHz, CD_3OD) spectrum of compound 12.



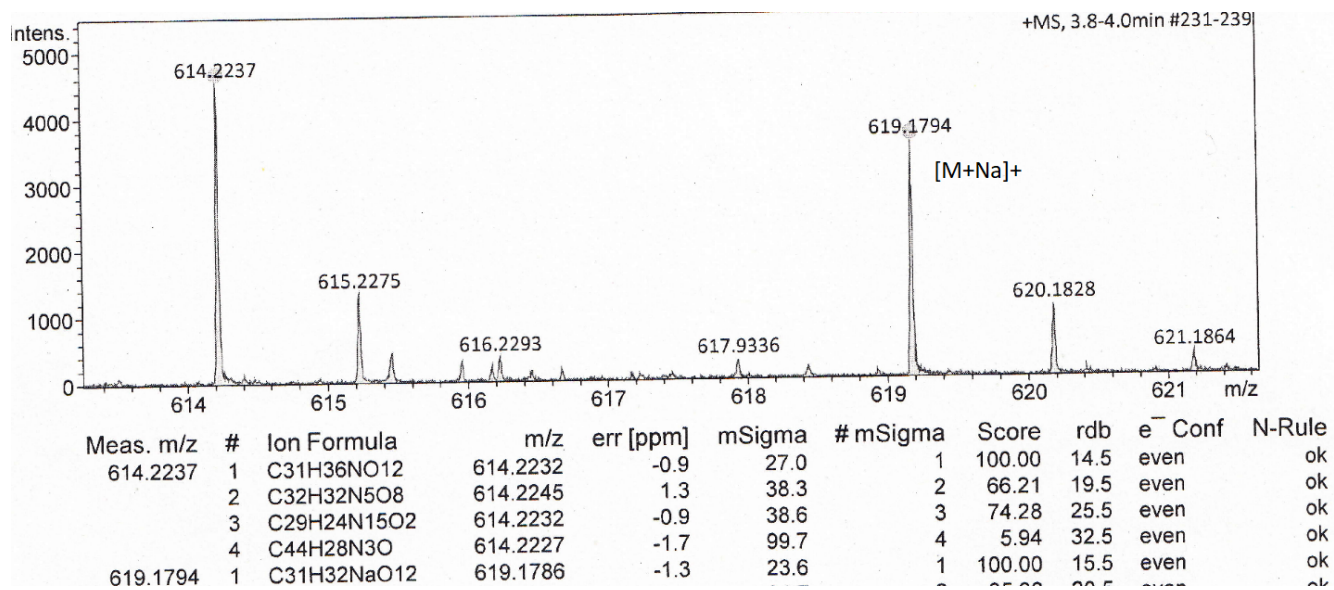
S63. HSQC (500 and 125 MHz, CD_3OD) spectrum of compound 12.



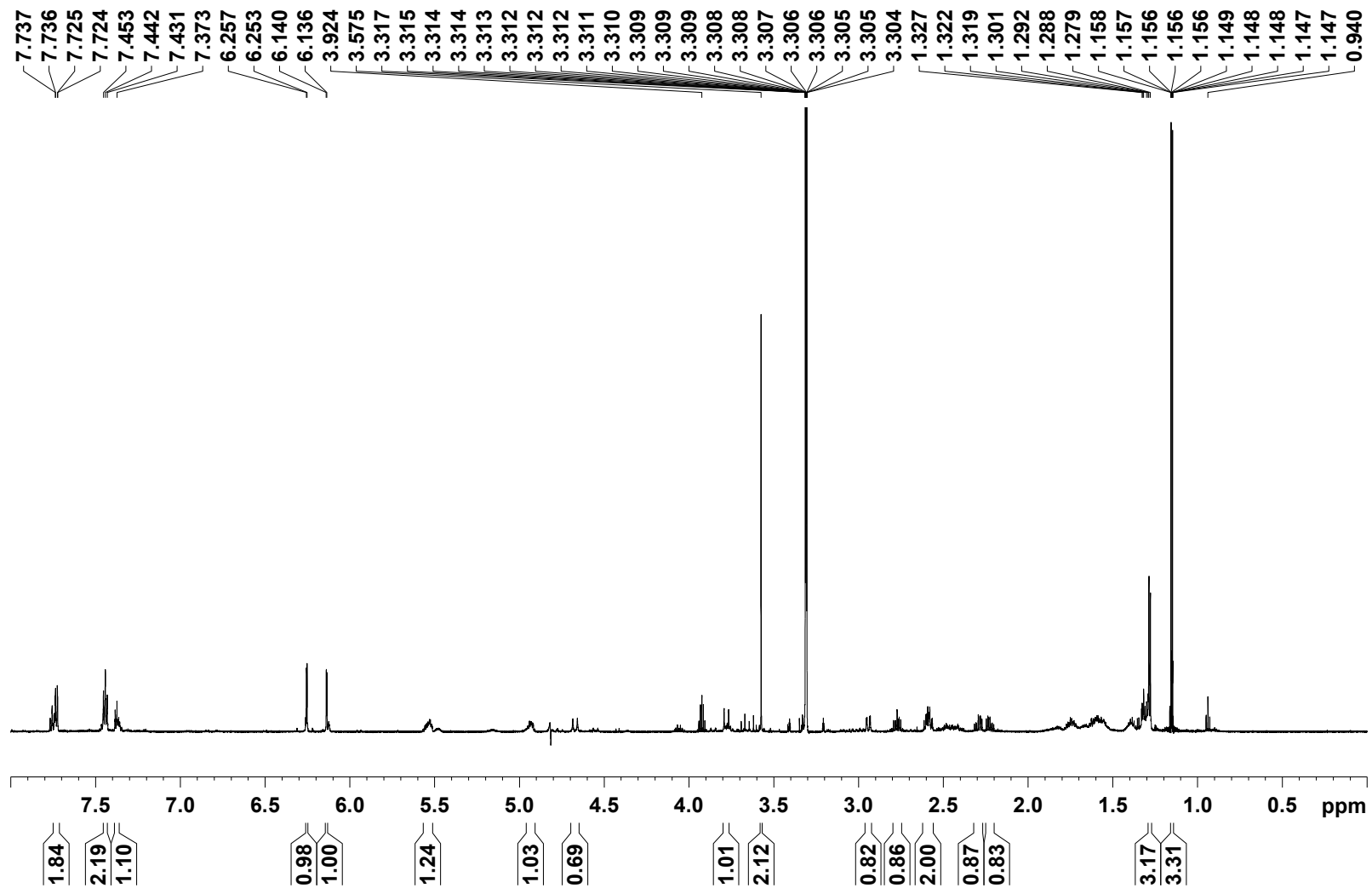
S64. HMBC (500 and 125 MHz, CD_3OD) spectrum of compound 12.



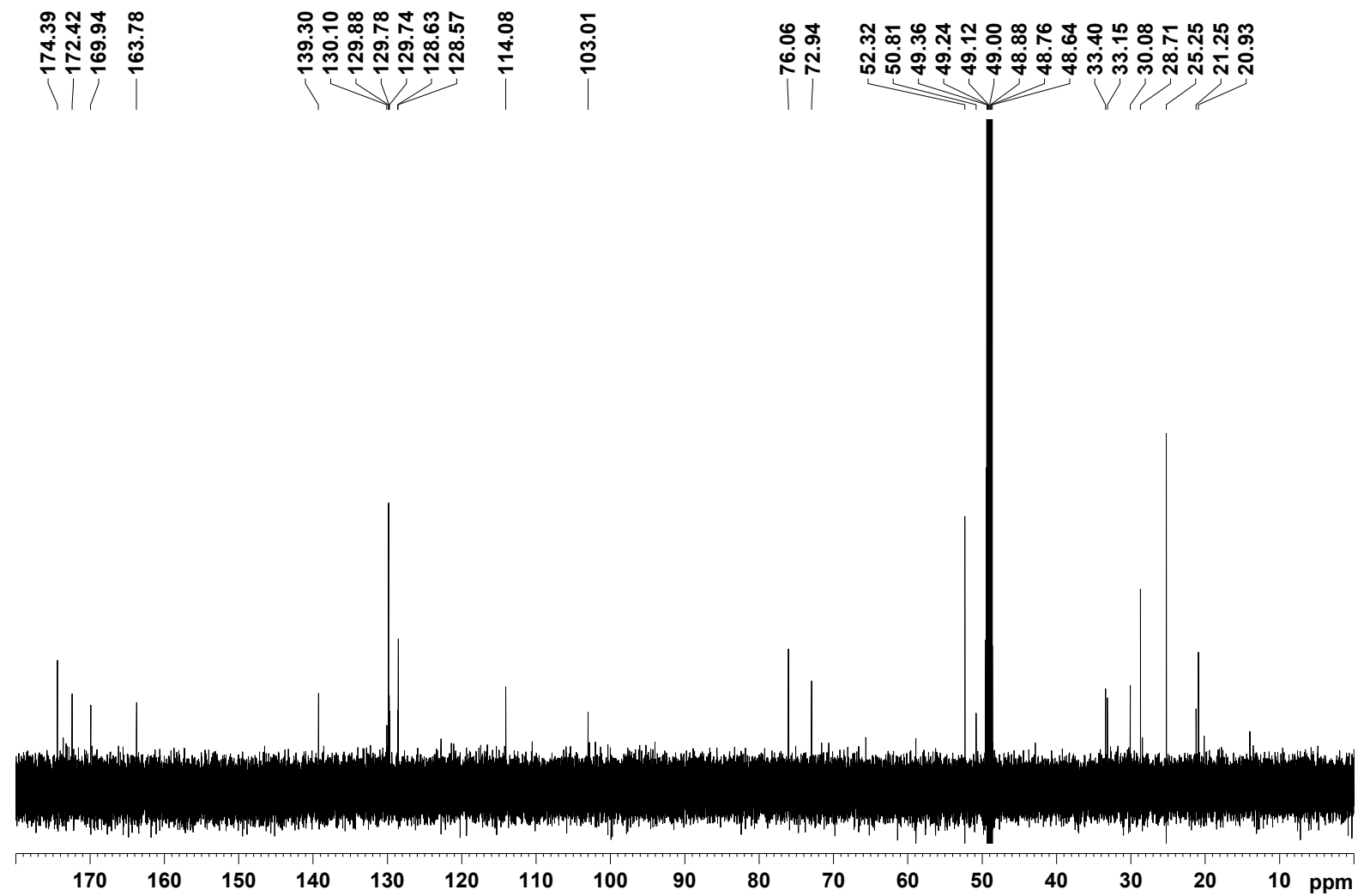
S65. ROESY (500 MHz, CD₃OD) spectrum of compound 12



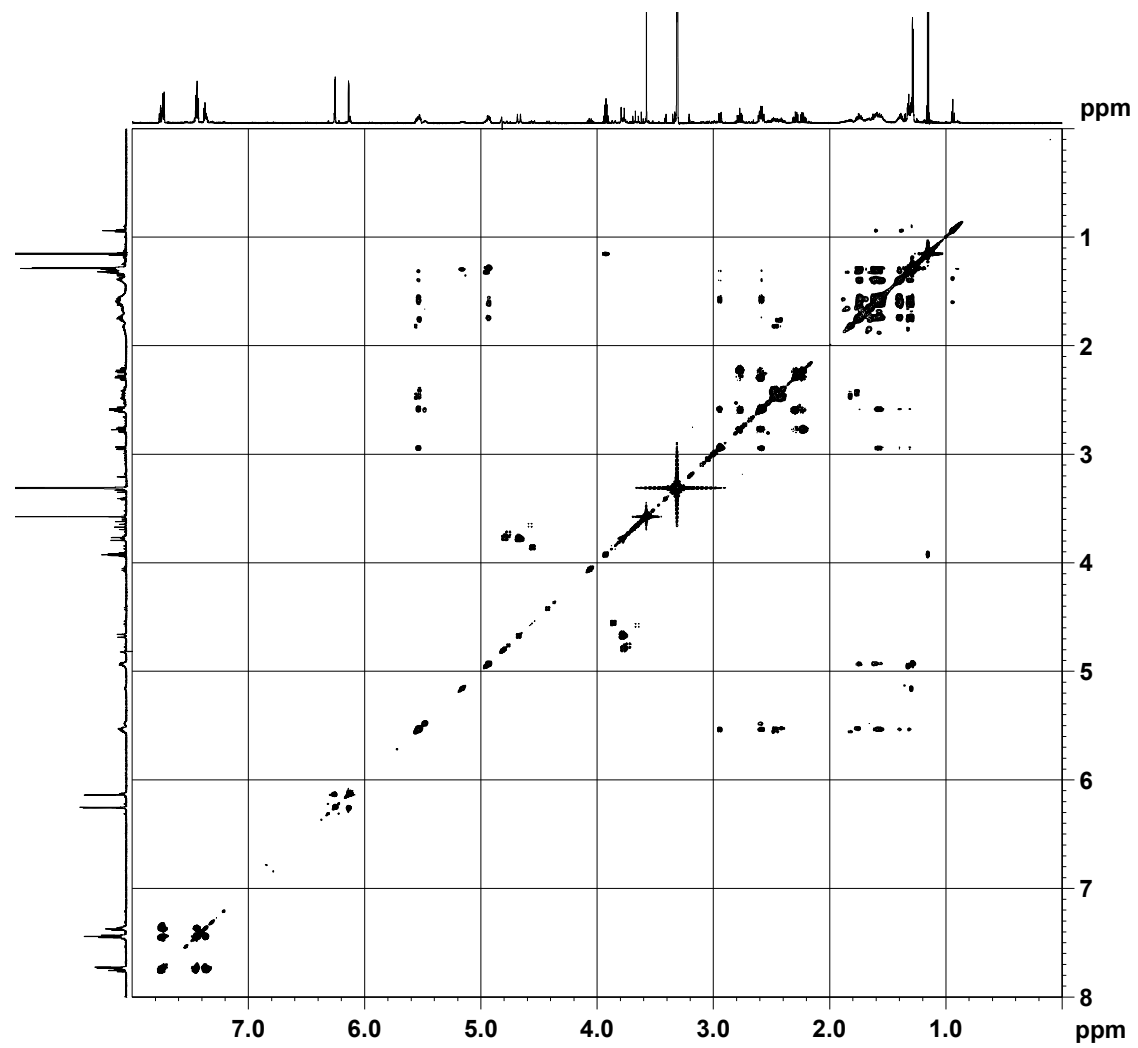
S66. HRESIMS spectrum of compound 13.



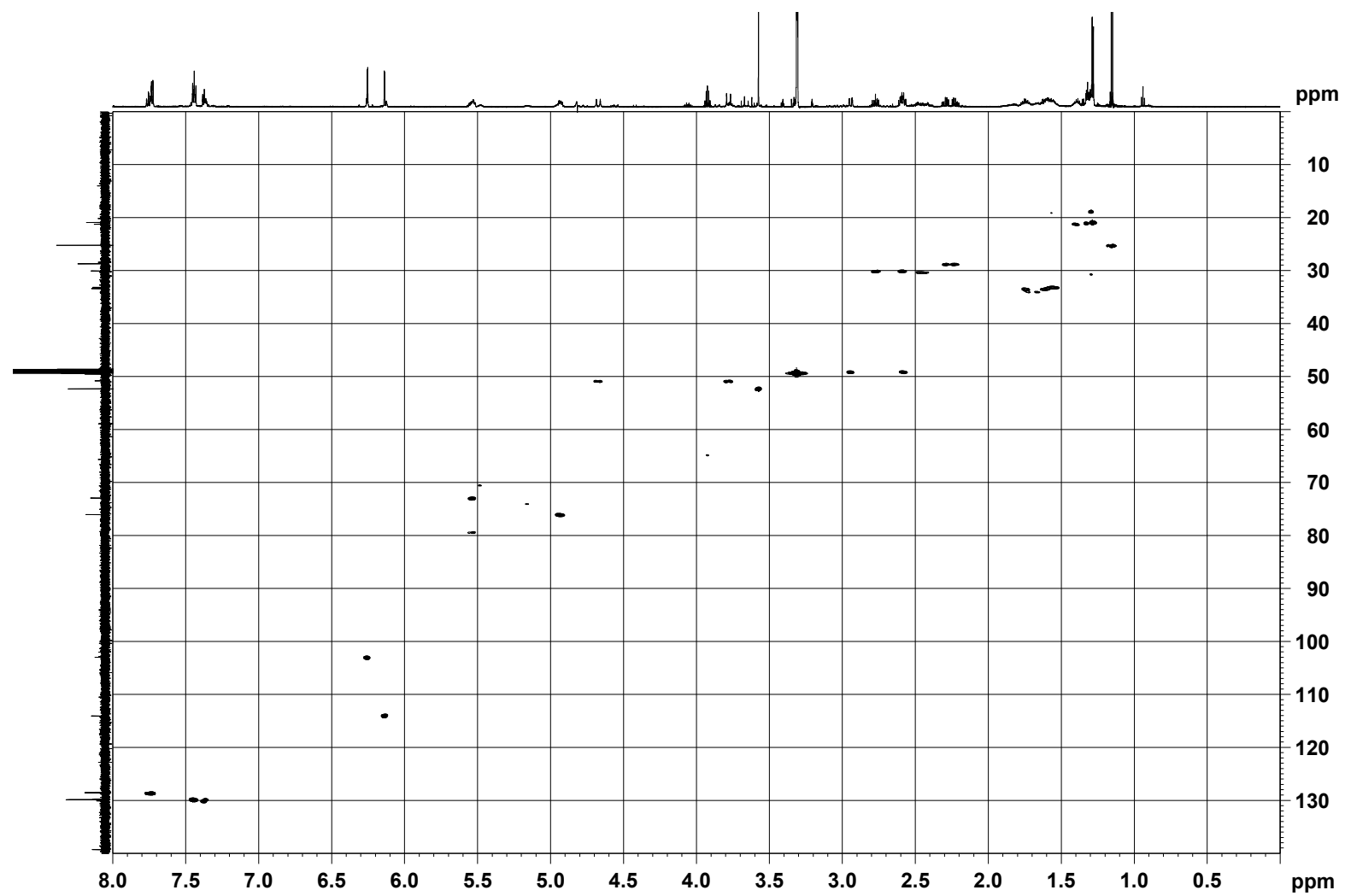
S67. ^1H NMR (700 MHz, CD_3OD) spectrum of compound 13.



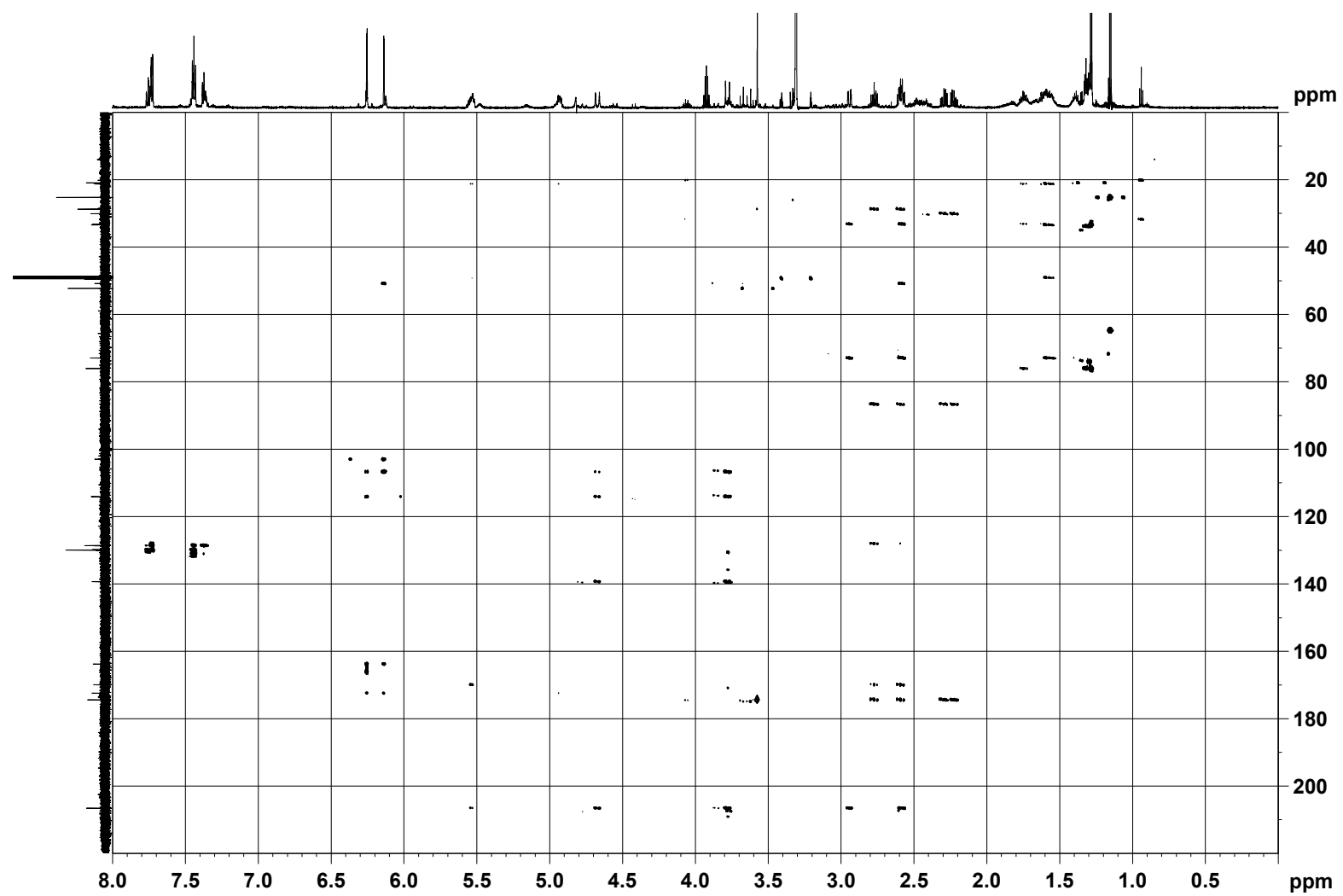
S68. ^{13}C NMR (175 MHz, CD_3OD) spectrum of compound **13**.



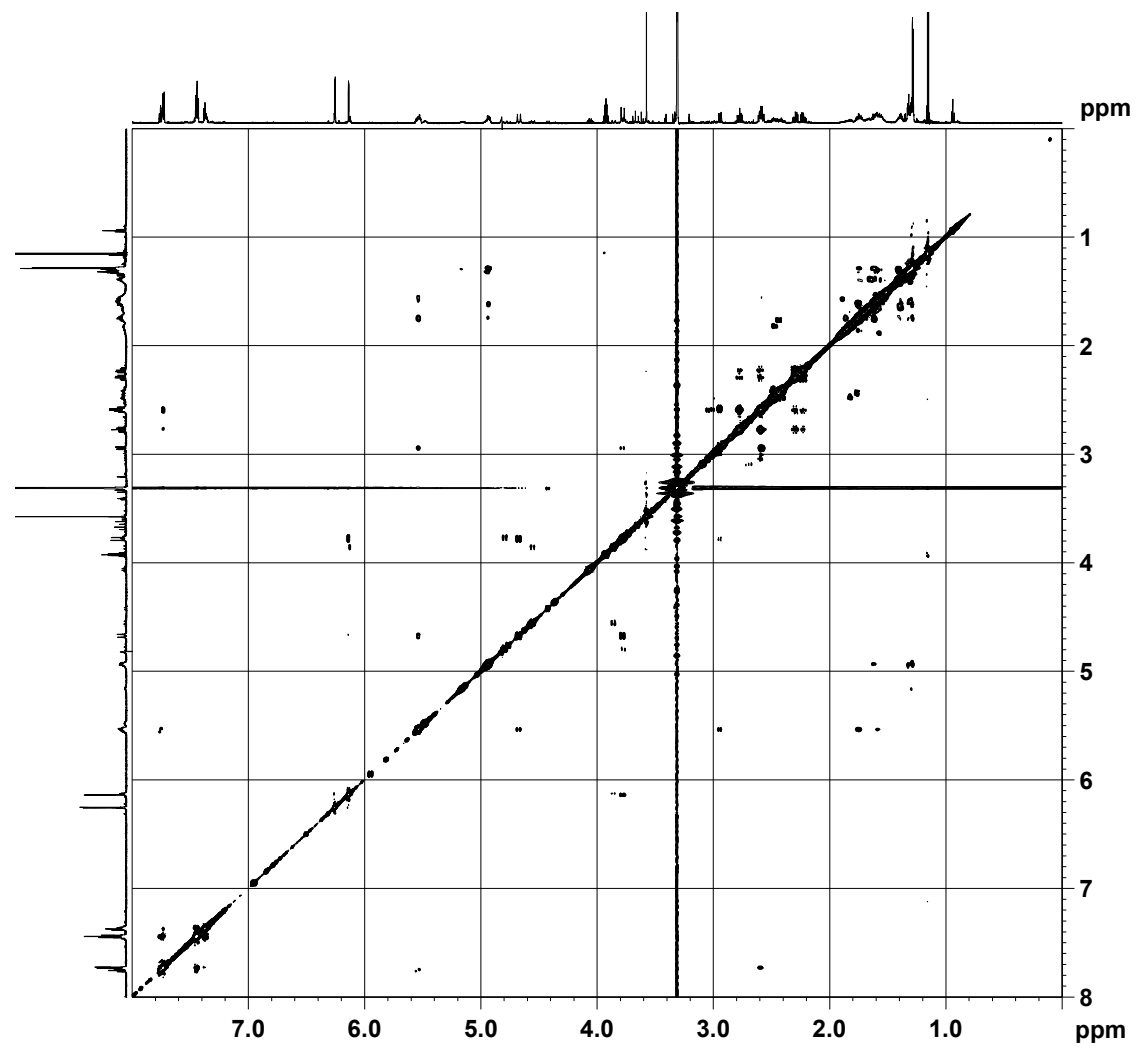
S69. ^1H - ^1H TOCSY NMR (700 MHz, CD_3OD) spectrum of compound 13.



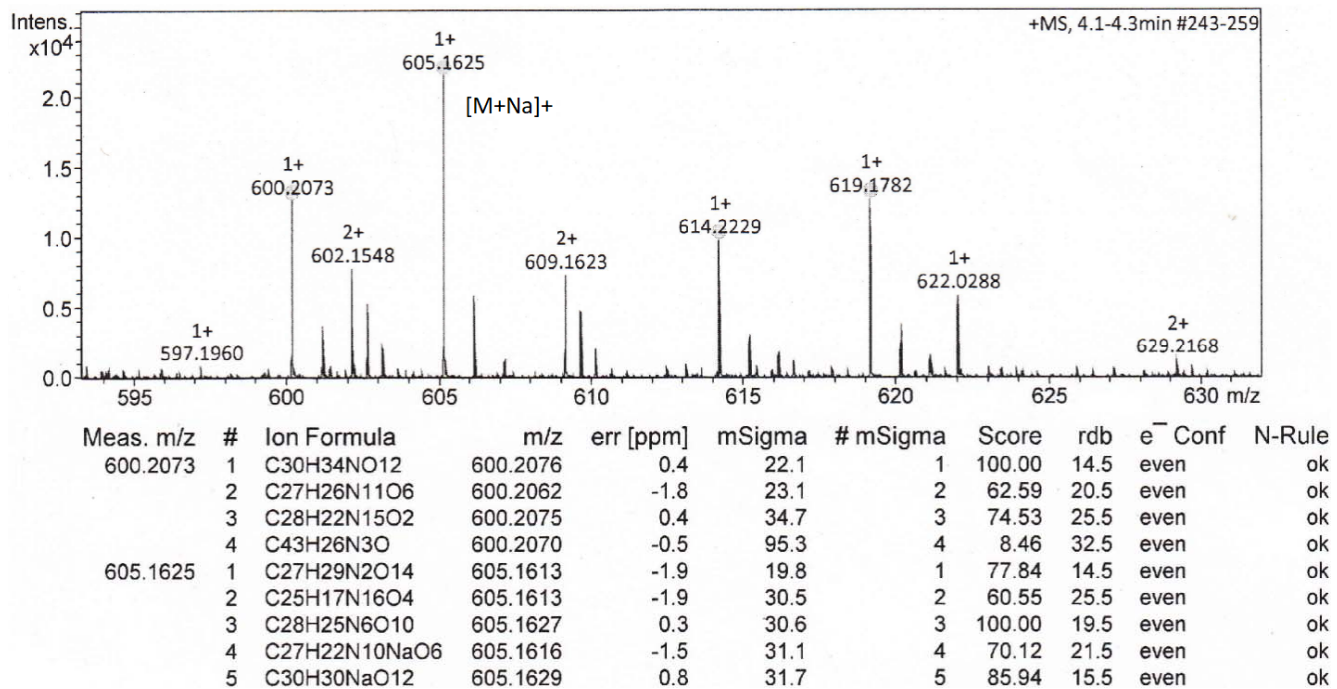
S70. HSQC (700 and 175 MHz, CD_3OD) spectrum of compound 13.



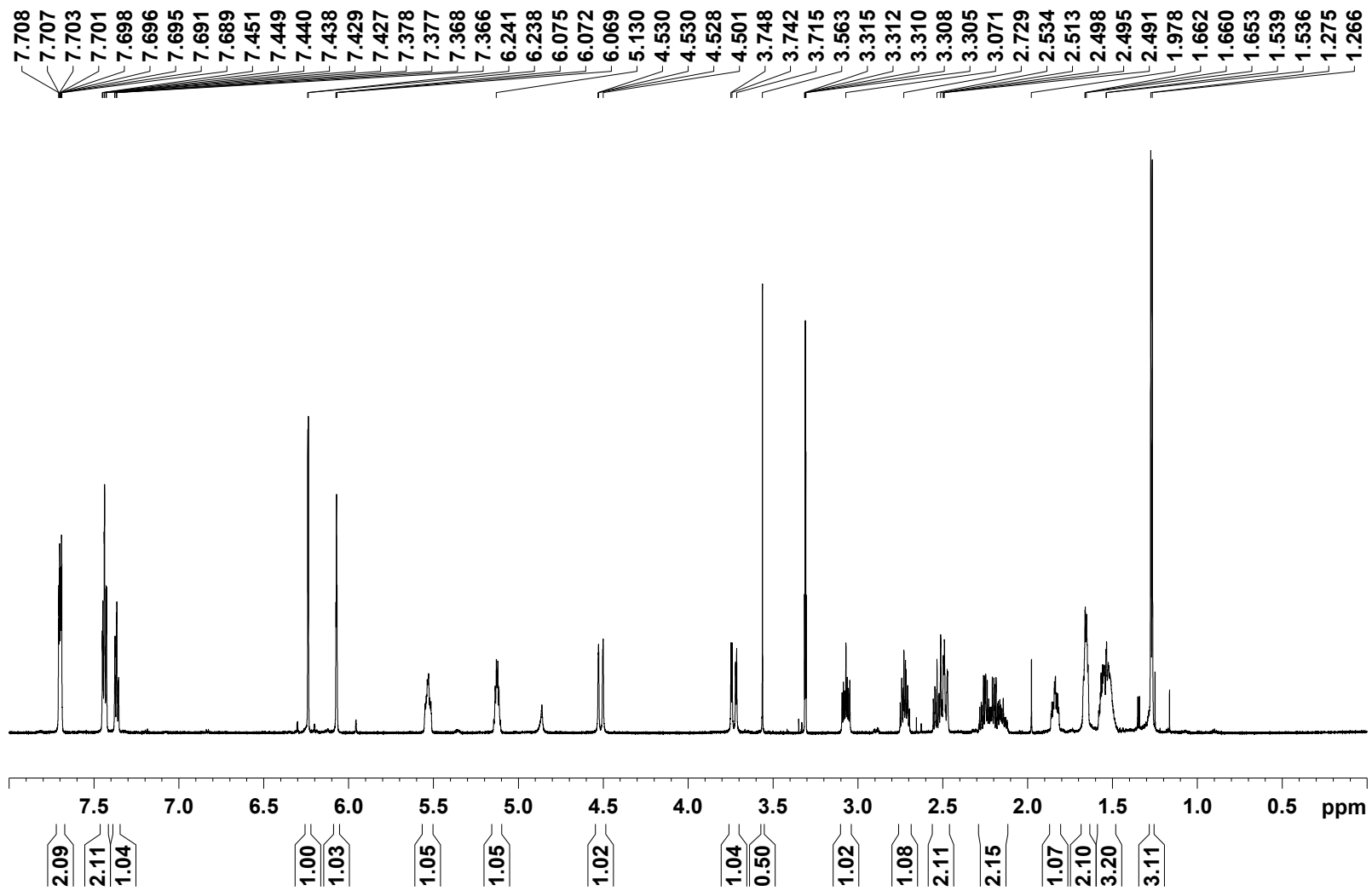
S71. HMBC (700 and 175 MHz, CD_3OD) spectrum of compound 13.



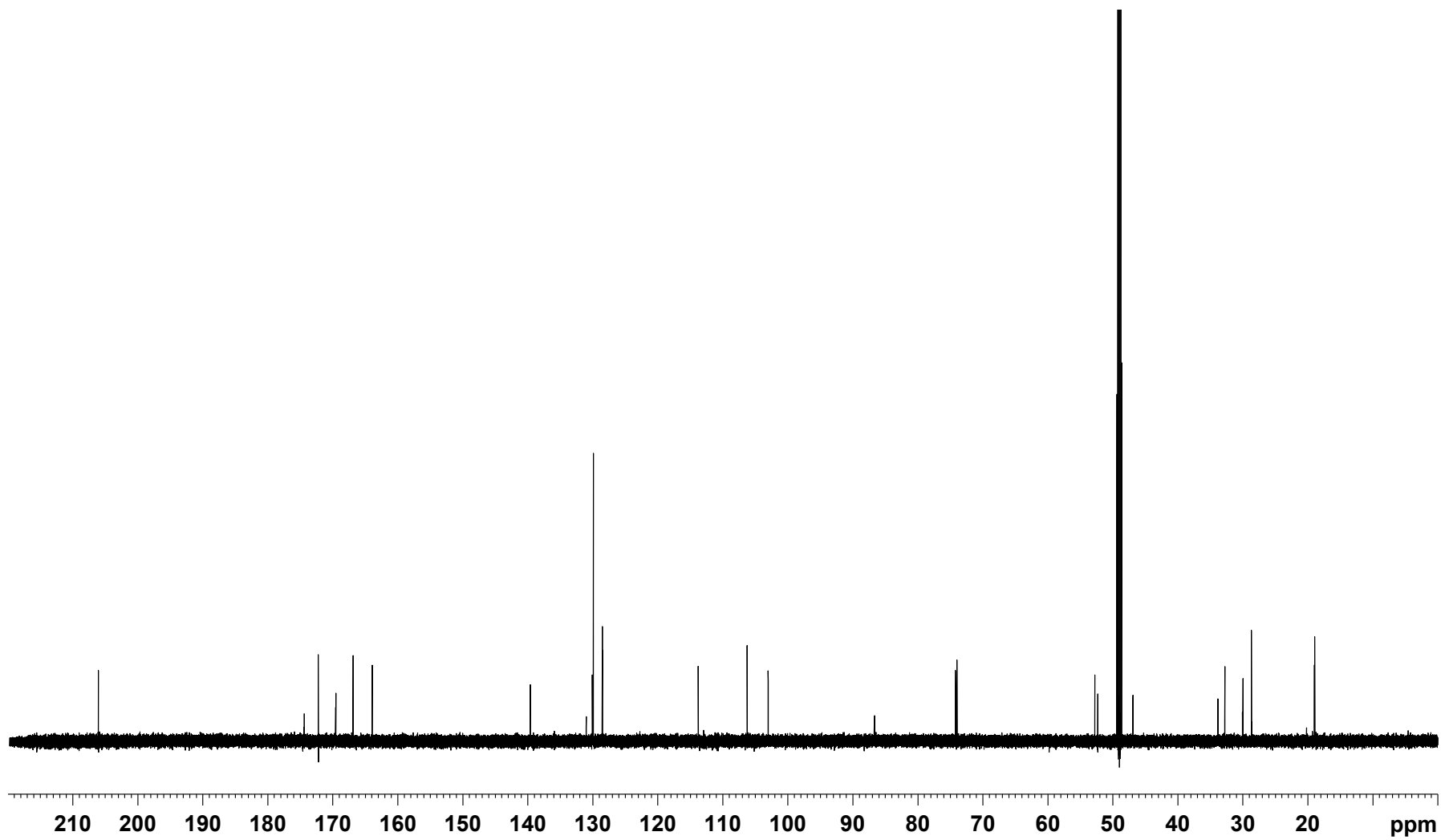
S72. ROESY (700 MHz, CD₃OD) spectrum of compound 13.



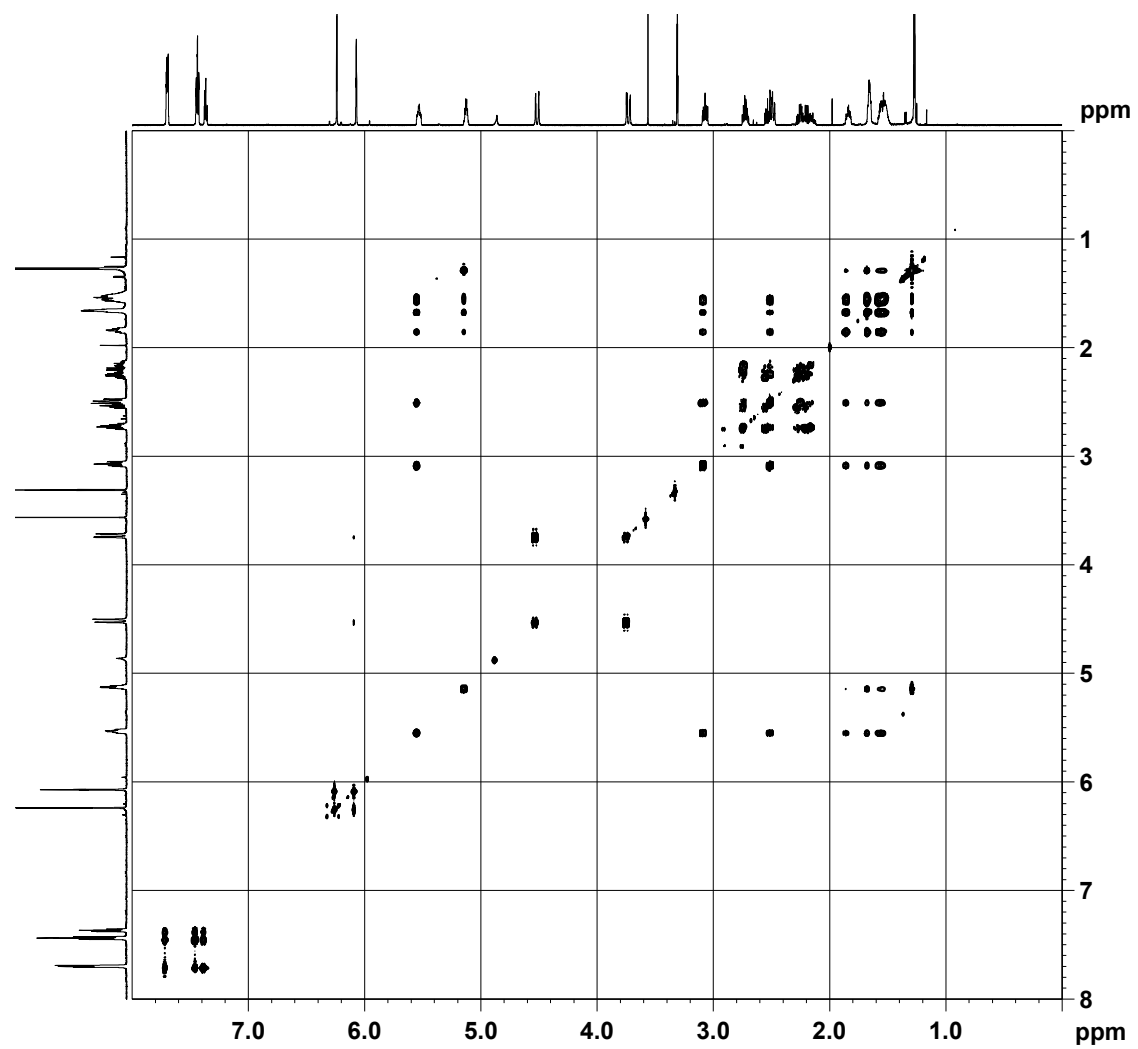
S73. HRESIMS spectrum of compound 14.



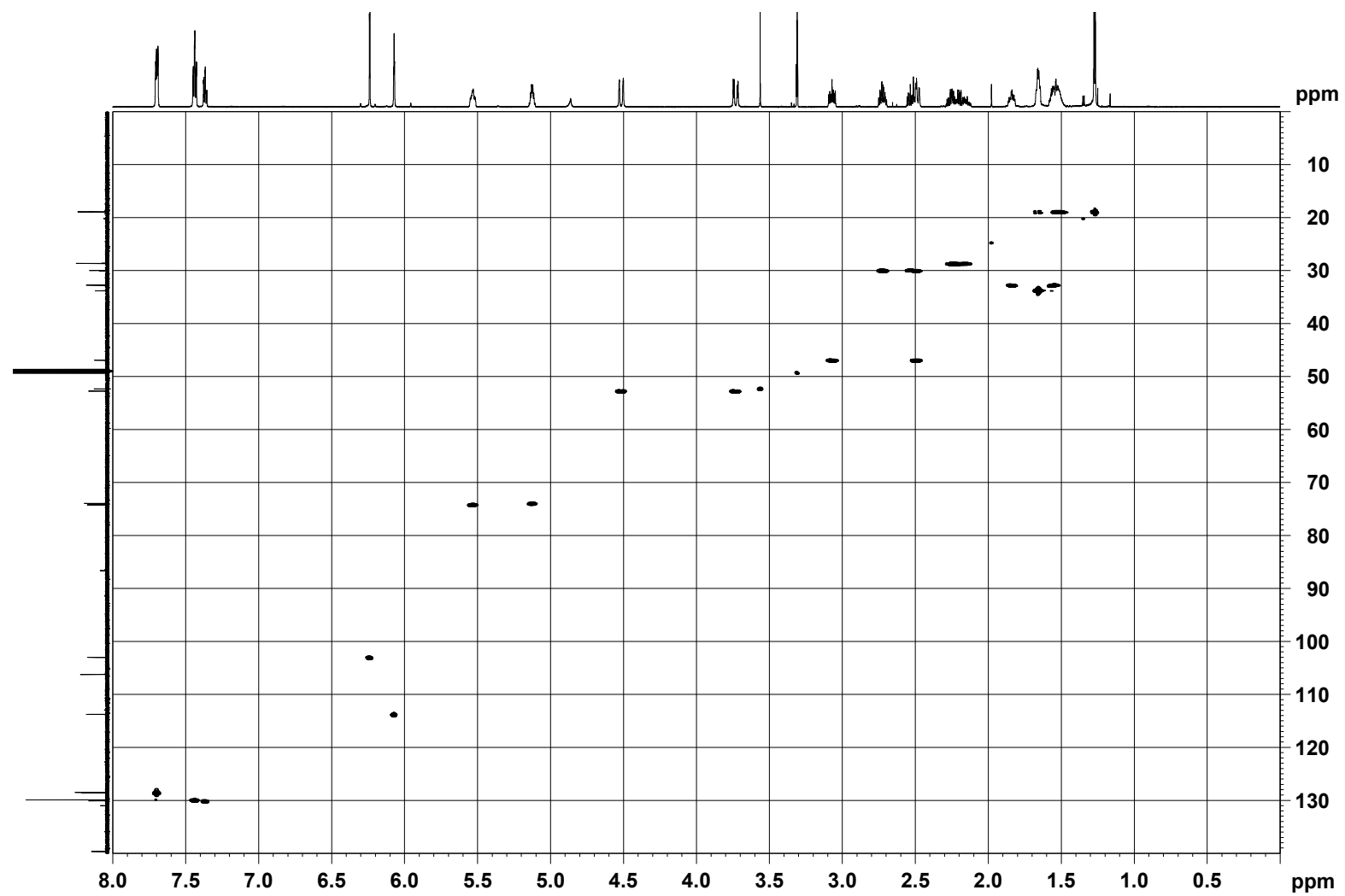
S74. ^1H NMR (700 MHz, CD_3OD) spectrum of compound 14.



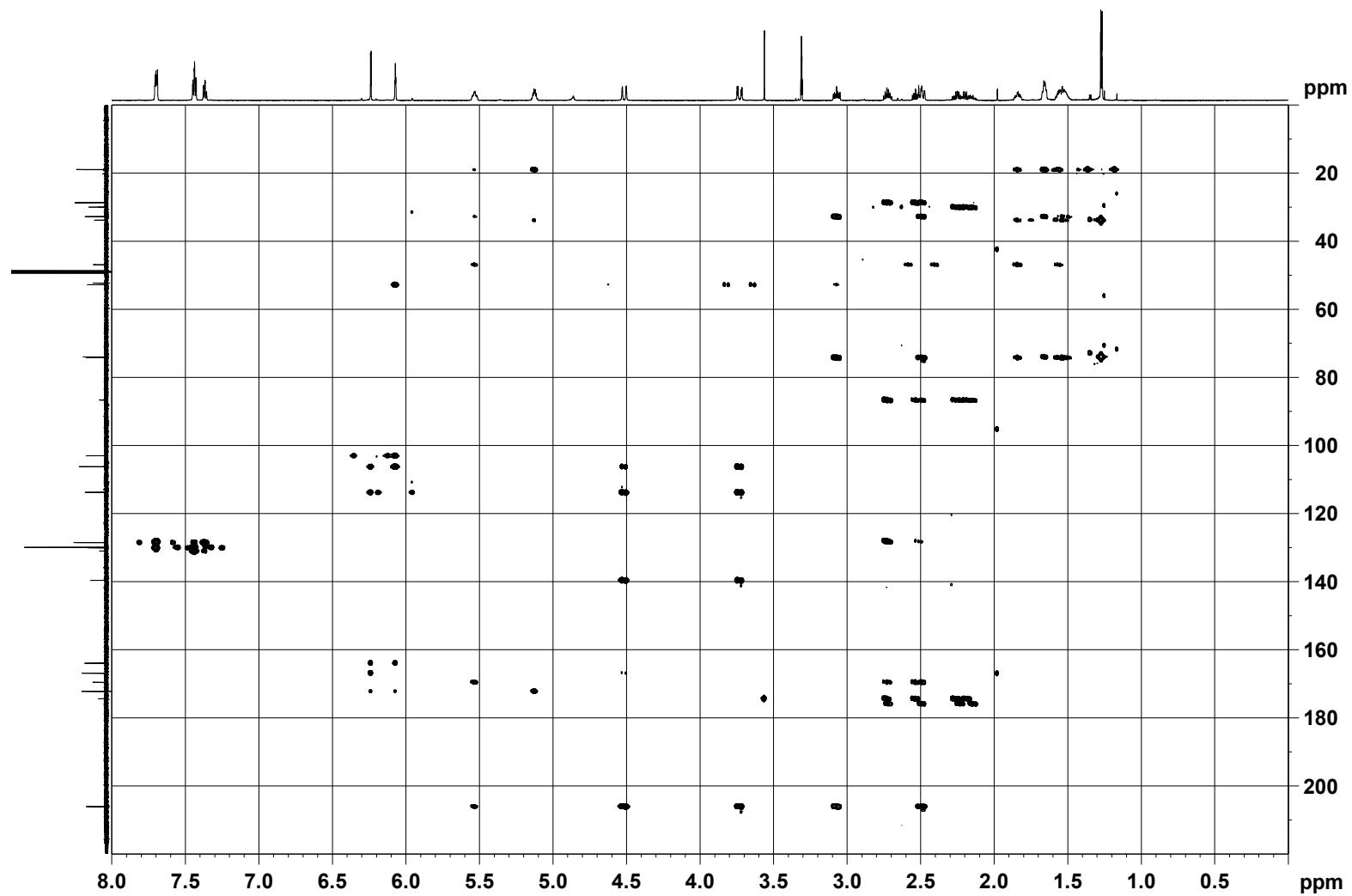
S75. ^{13}C NMR (175 MHz, CD_3OD) spectrum of compound 14.



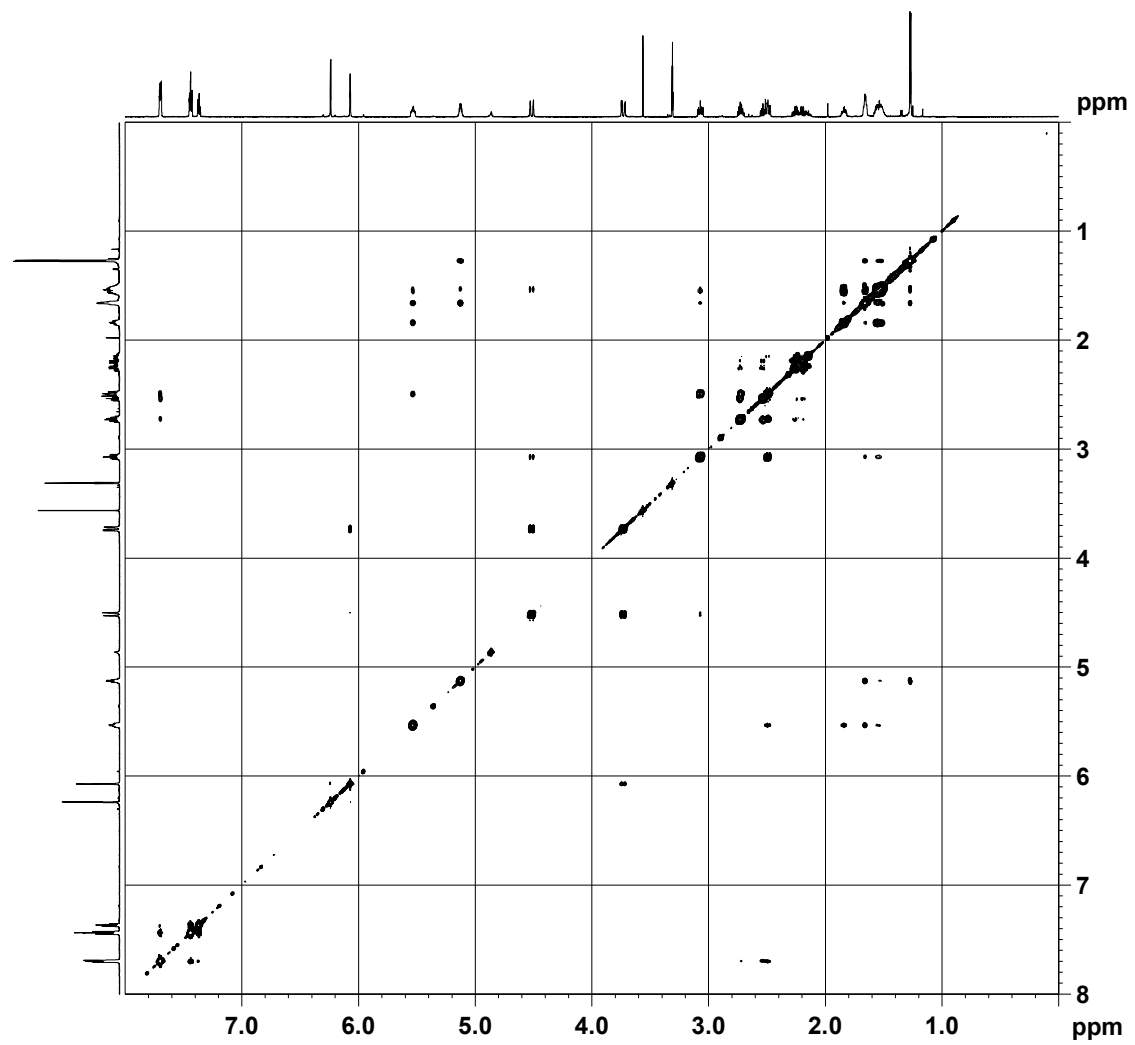
S76. ^1H - ^1H -TOCSY (700 MHz, CD_3OD) spectrum of compound 14.



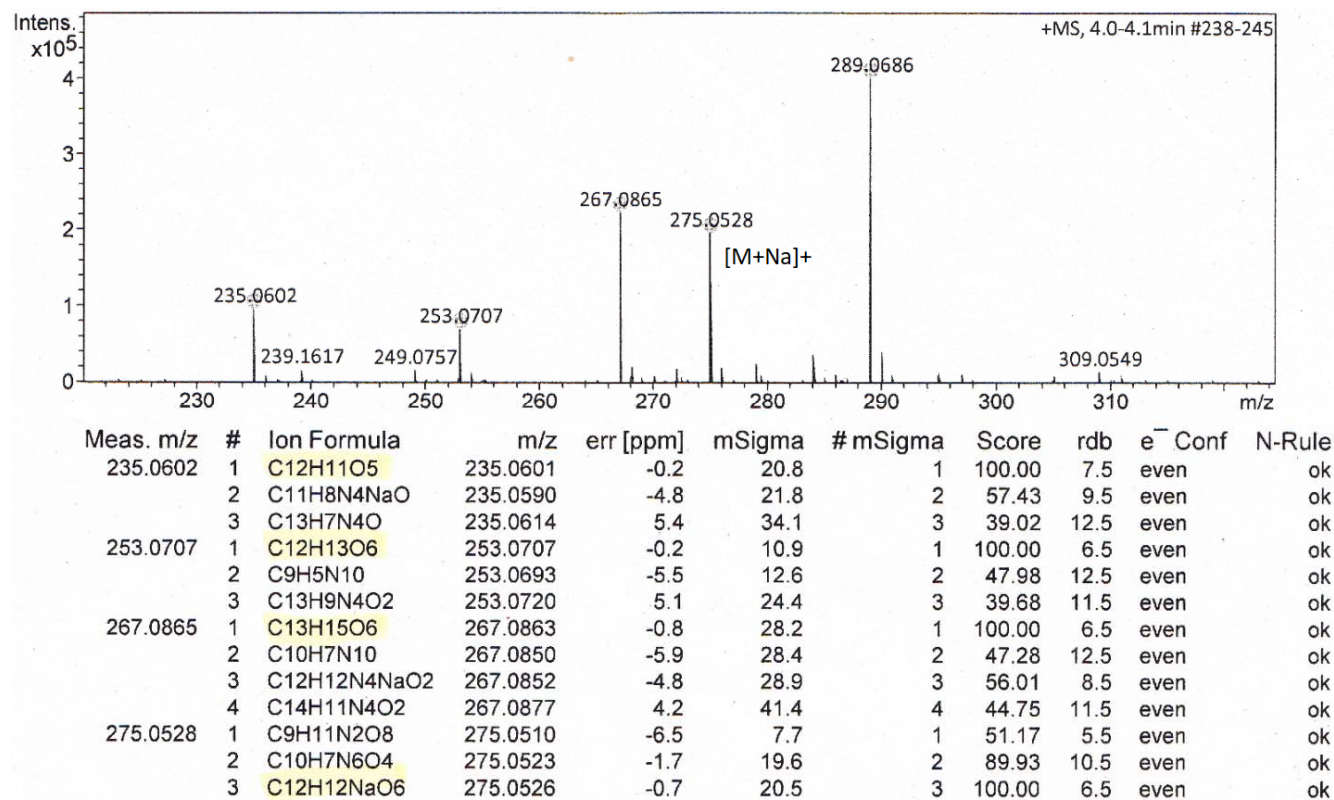
S77. HSQC (700 and 175 MHz, CD₃OD) spectrum of compound **14**.



S78. HMBC (700 and 175 MHz, CD_3OD) spectrum of compound 14.

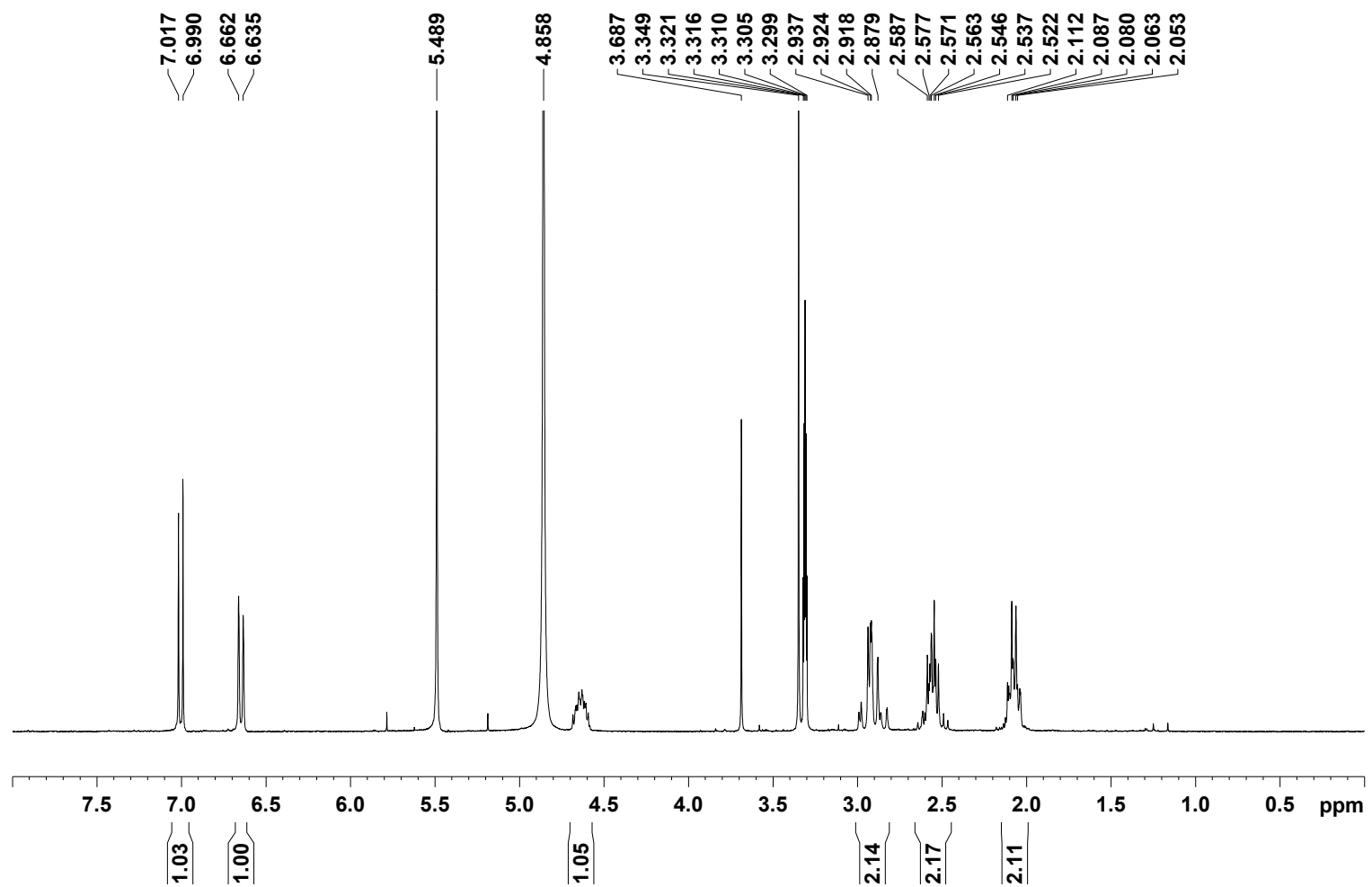


S79. ROESY (700 MHz, CD₃OD) spectrum of compound 14.



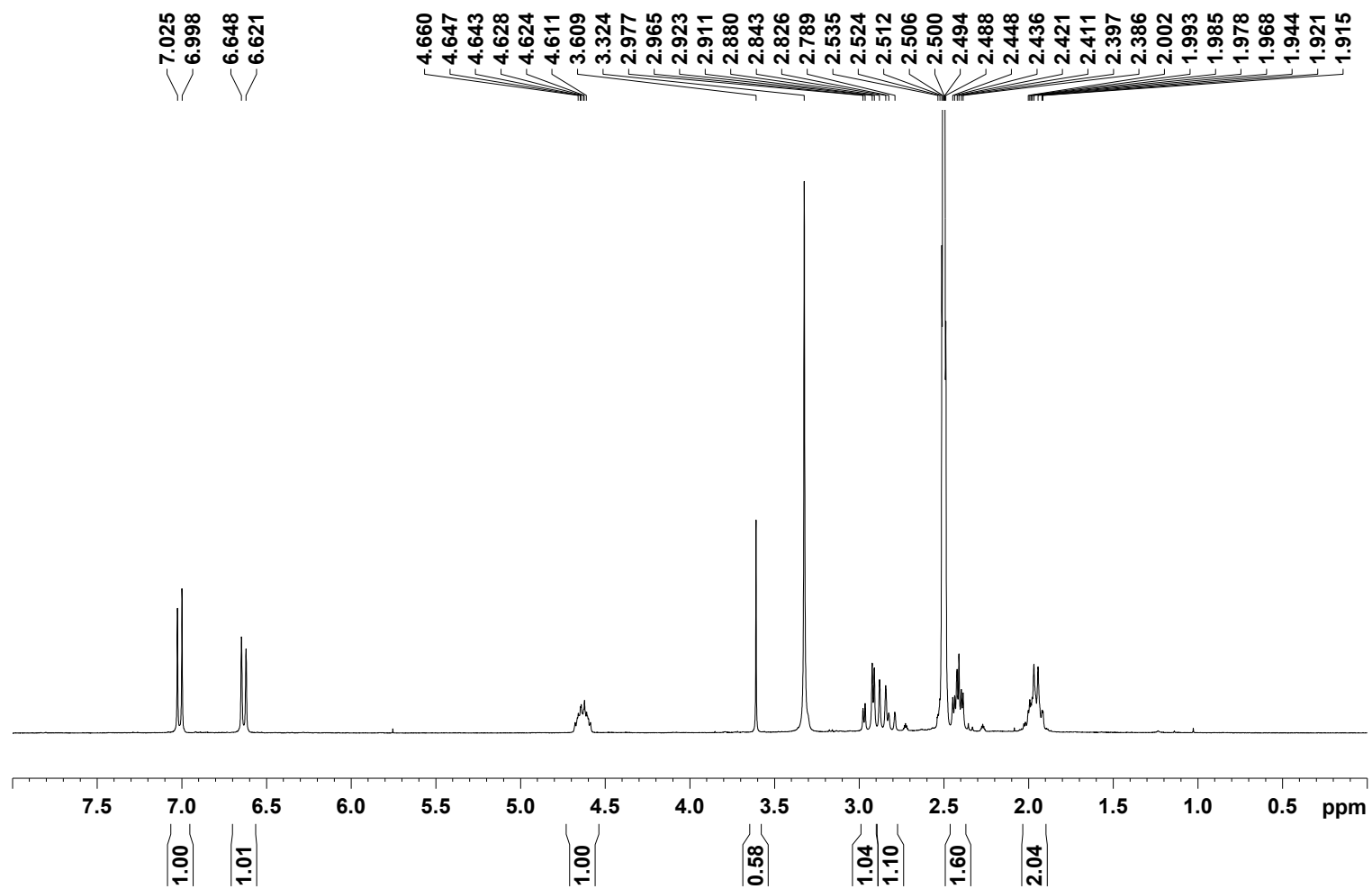
S80. HRESIMS spectrum of compound 15.

Tal80CS6-3



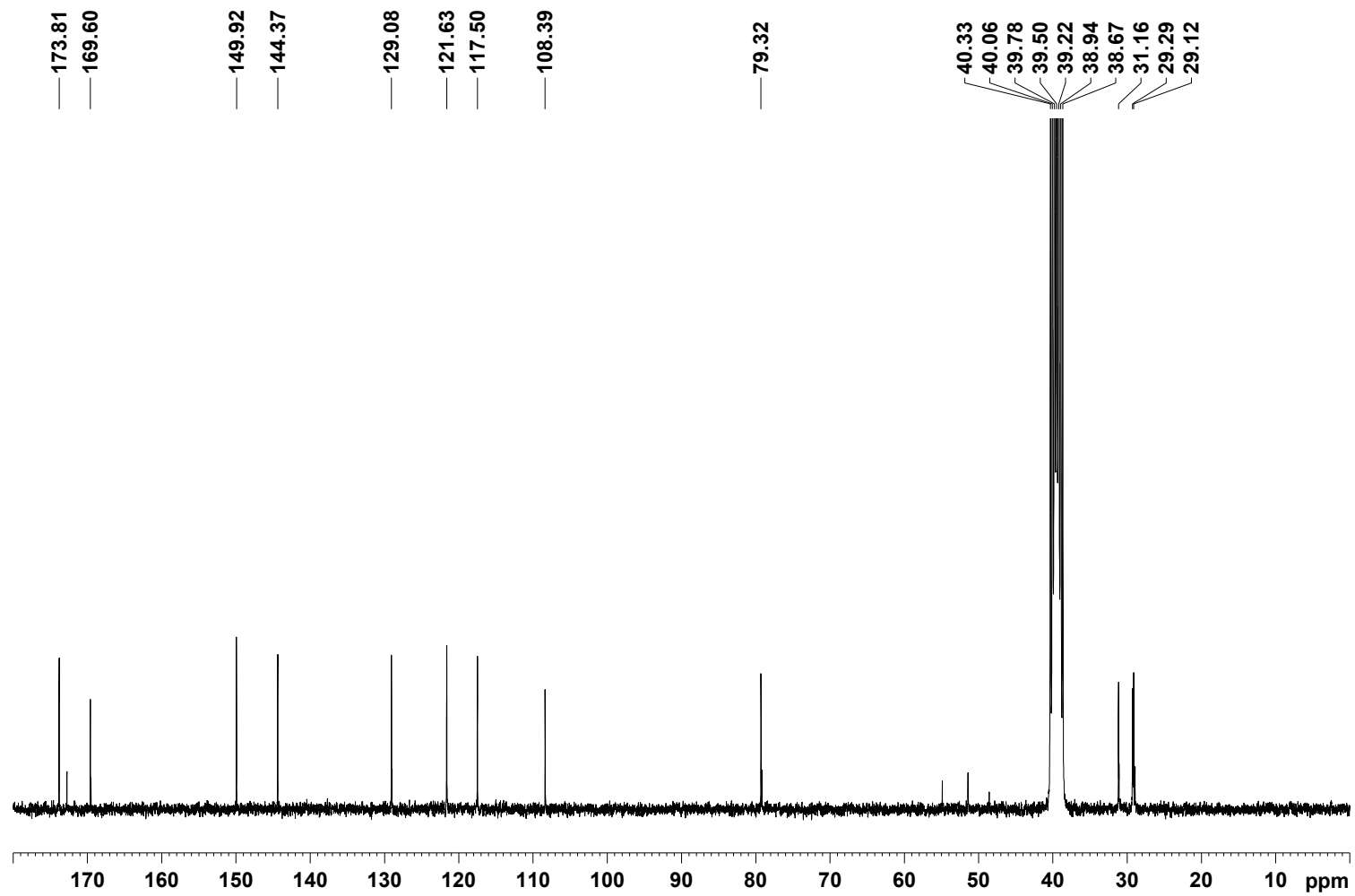
S81. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 15.

Tal80ES6-3

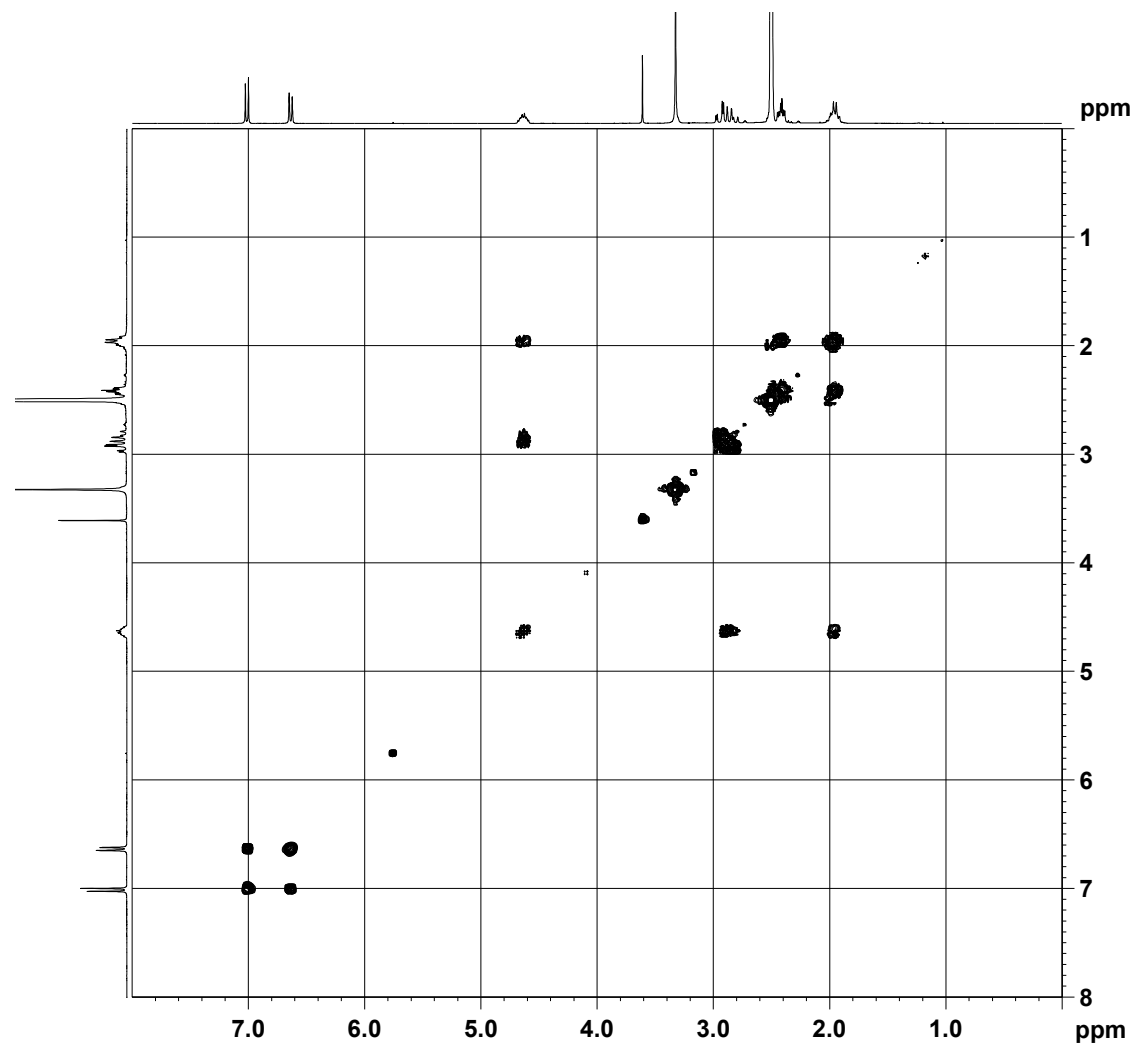


S82. ^1H NMR (300 MHz, $\text{DMSO-}d_6$) spectrum of compound 15.

Tal80Es6-3

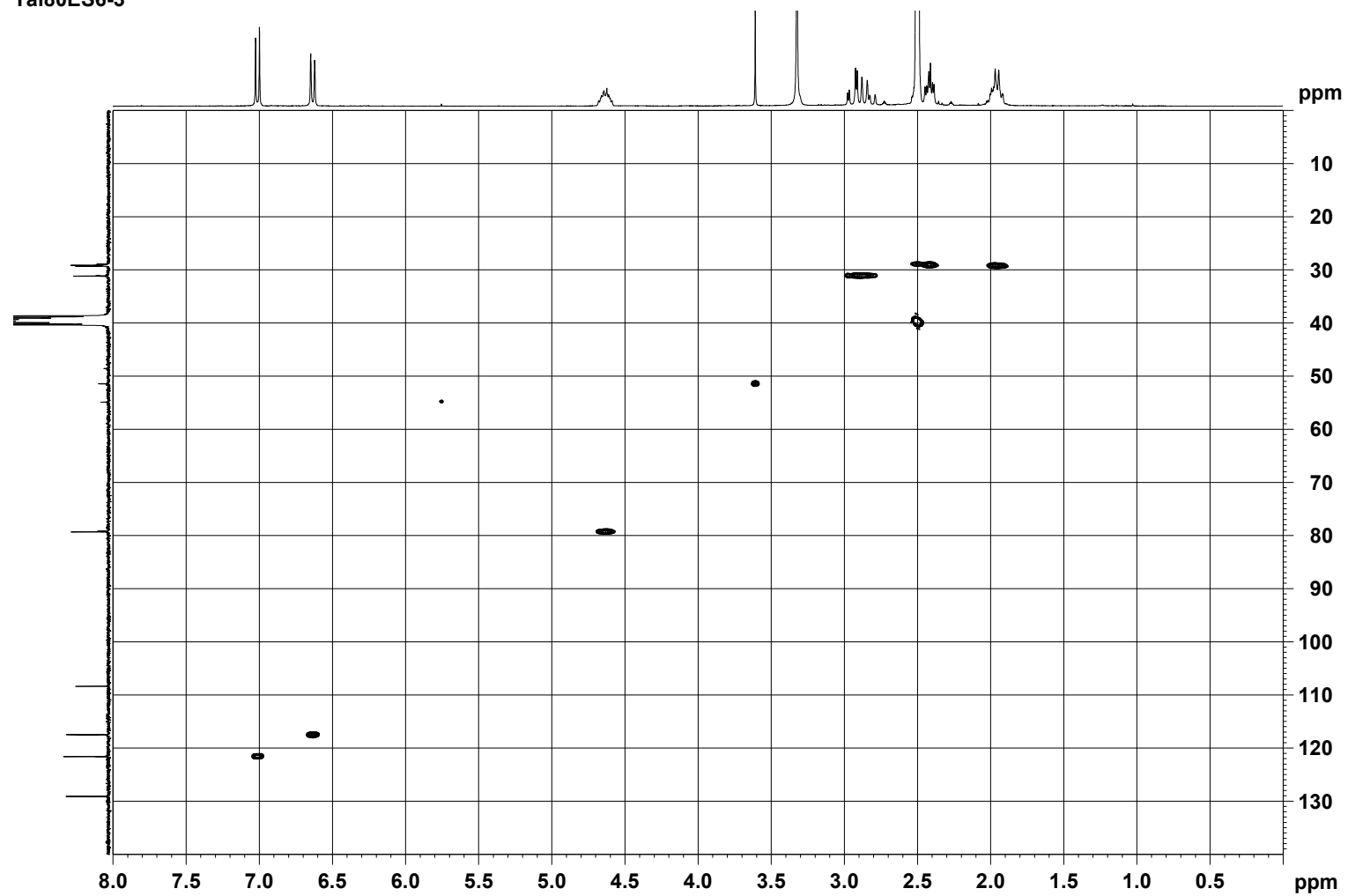


S83. ^{13}C NMR (75 MHz, $\text{DMSO-}d_6$) spectrum of compound 15.



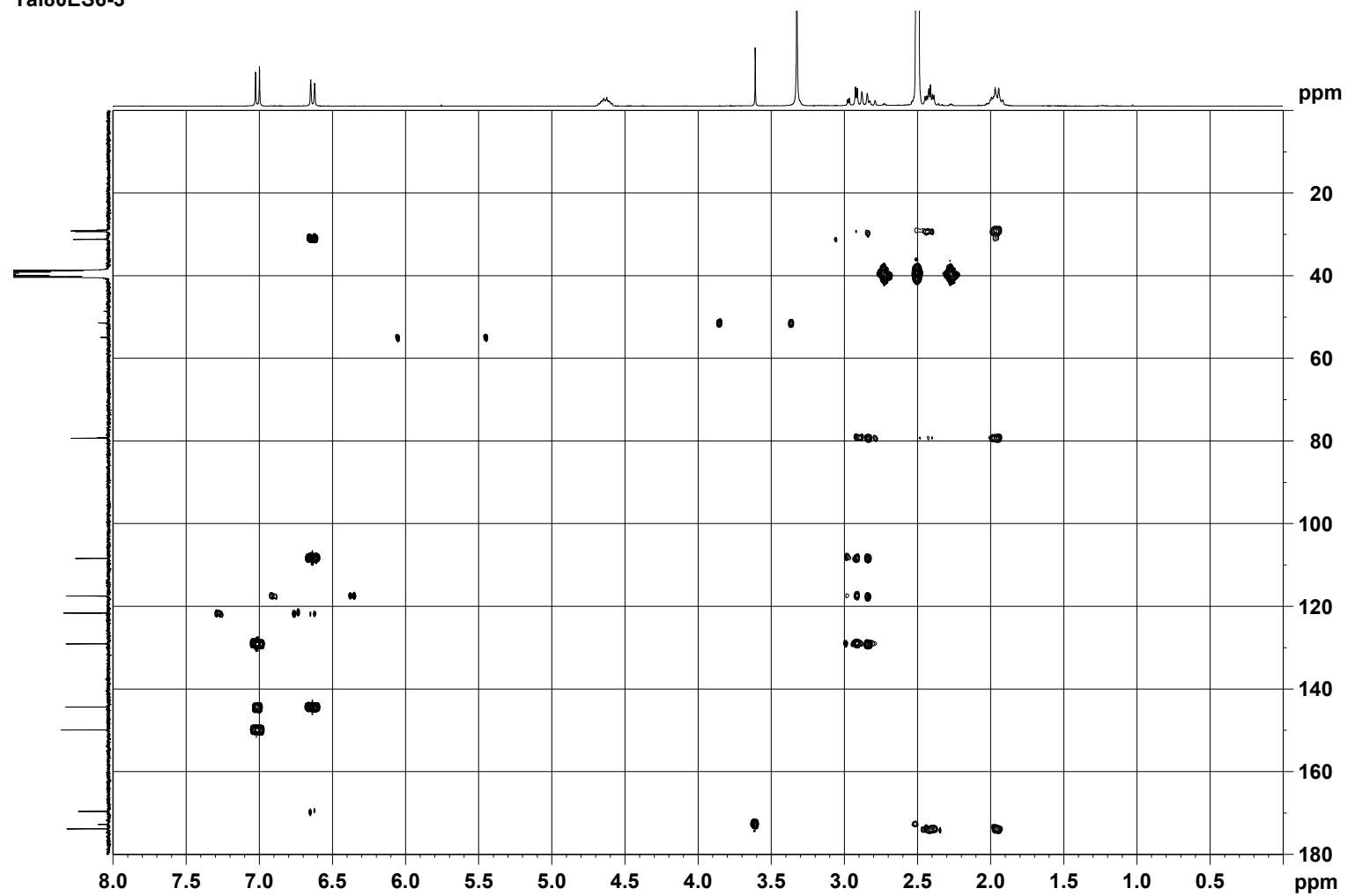
S84. ^1H - ^1H COSY (300 MHz, $\text{DMSO-}d_6$) spectrum of compound **15**.

Tal80ES6-3

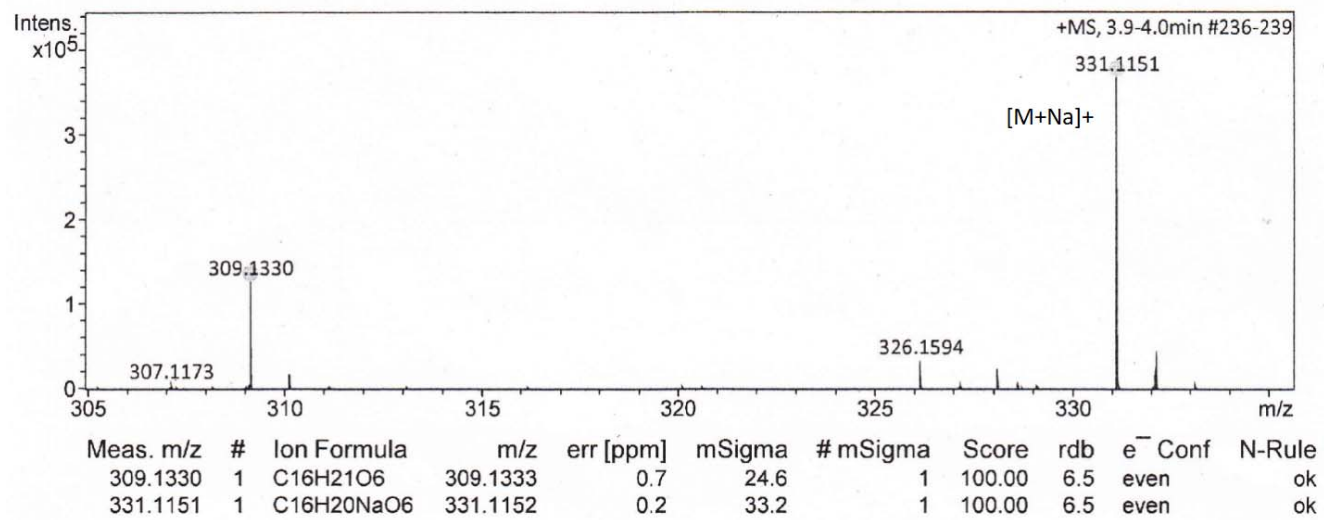


S85. HSQC (300 and 75 MHz, $\text{DMSO}-d_6$) spectrum of compound **15**.

Tal80ES6-3

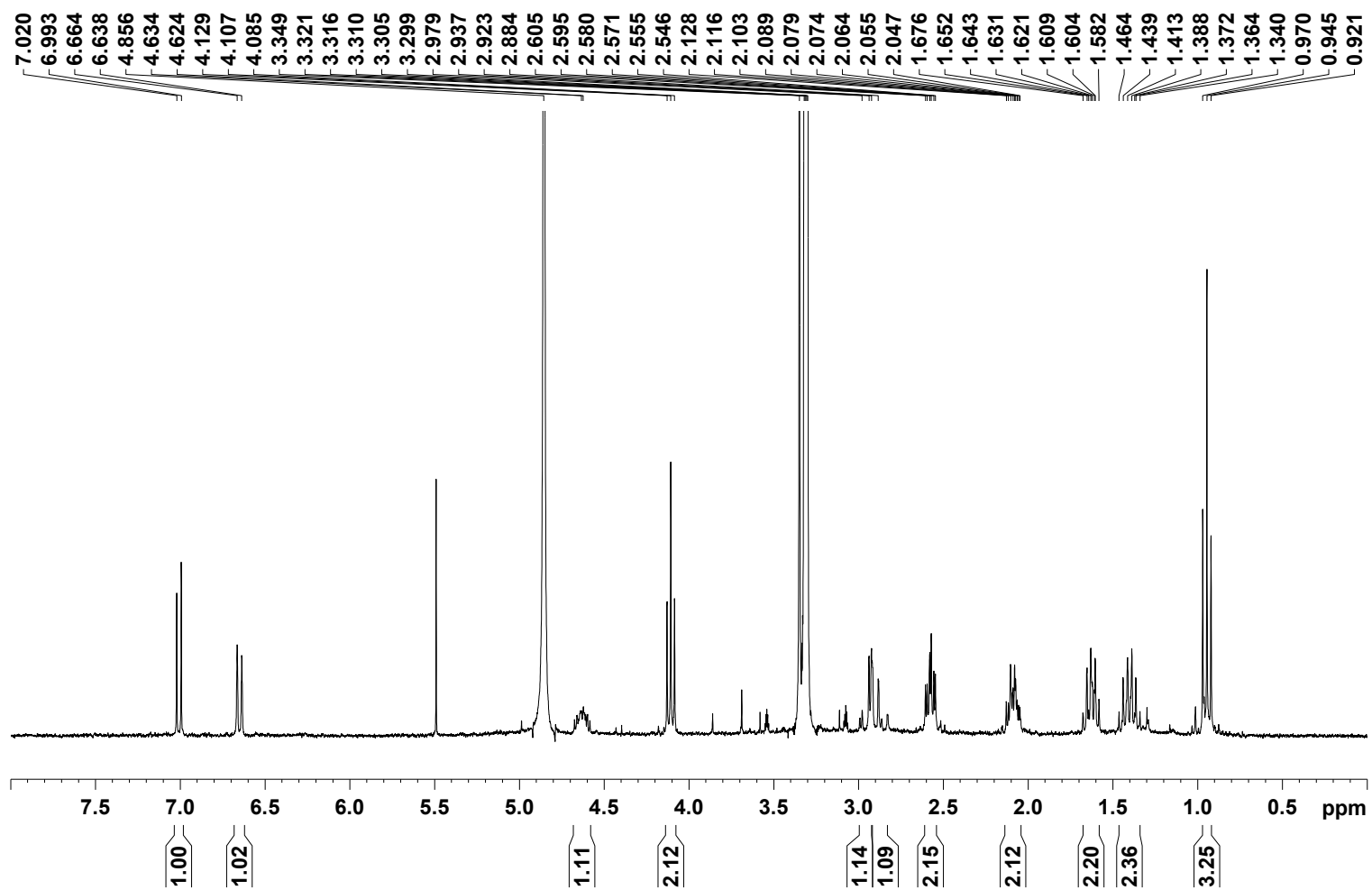


S86. HMBC (300 and 75 MHz, $\text{DMSO}-d_6$) spectrum of compound 15.



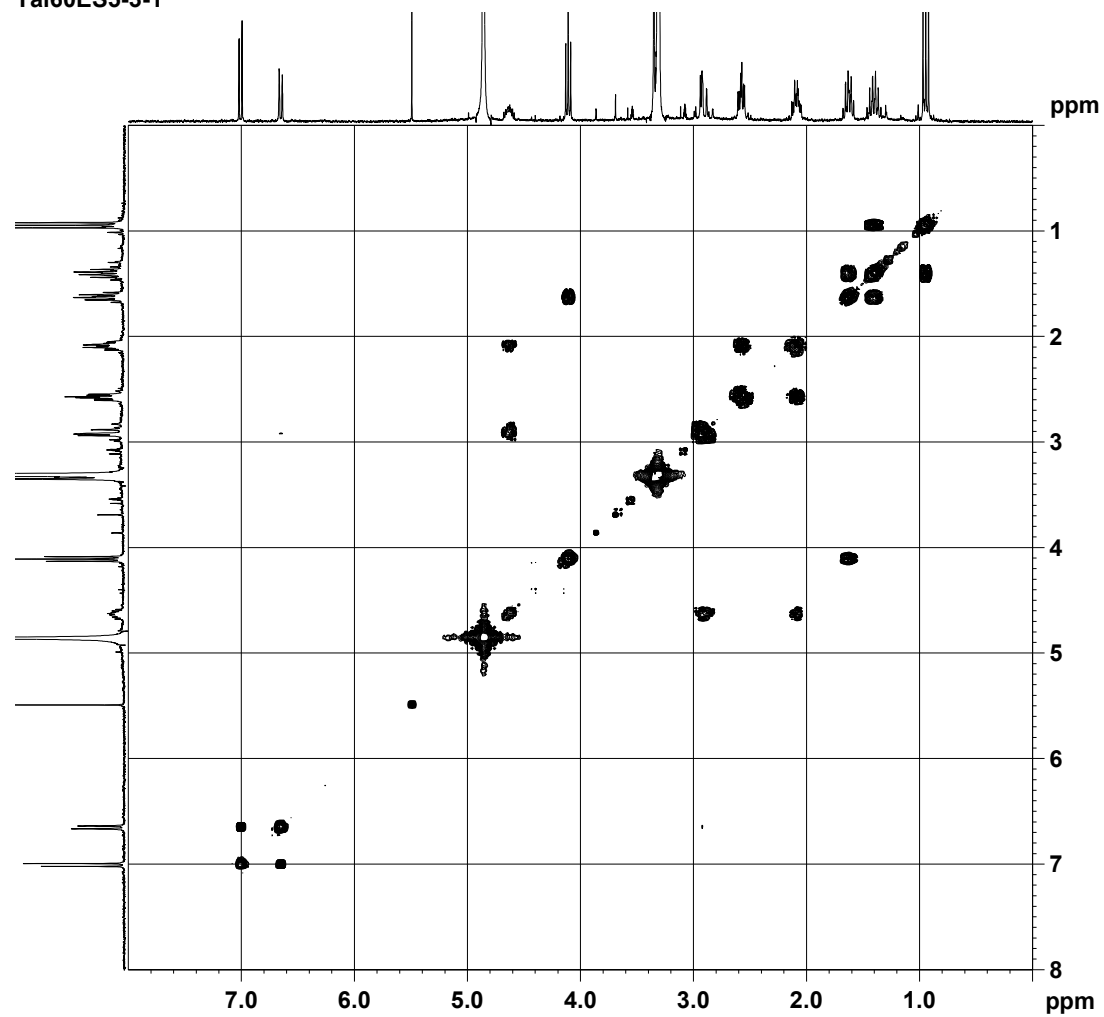
S87. HRESIMS spectrum of compound **16**.

Tal60ES5-3-1



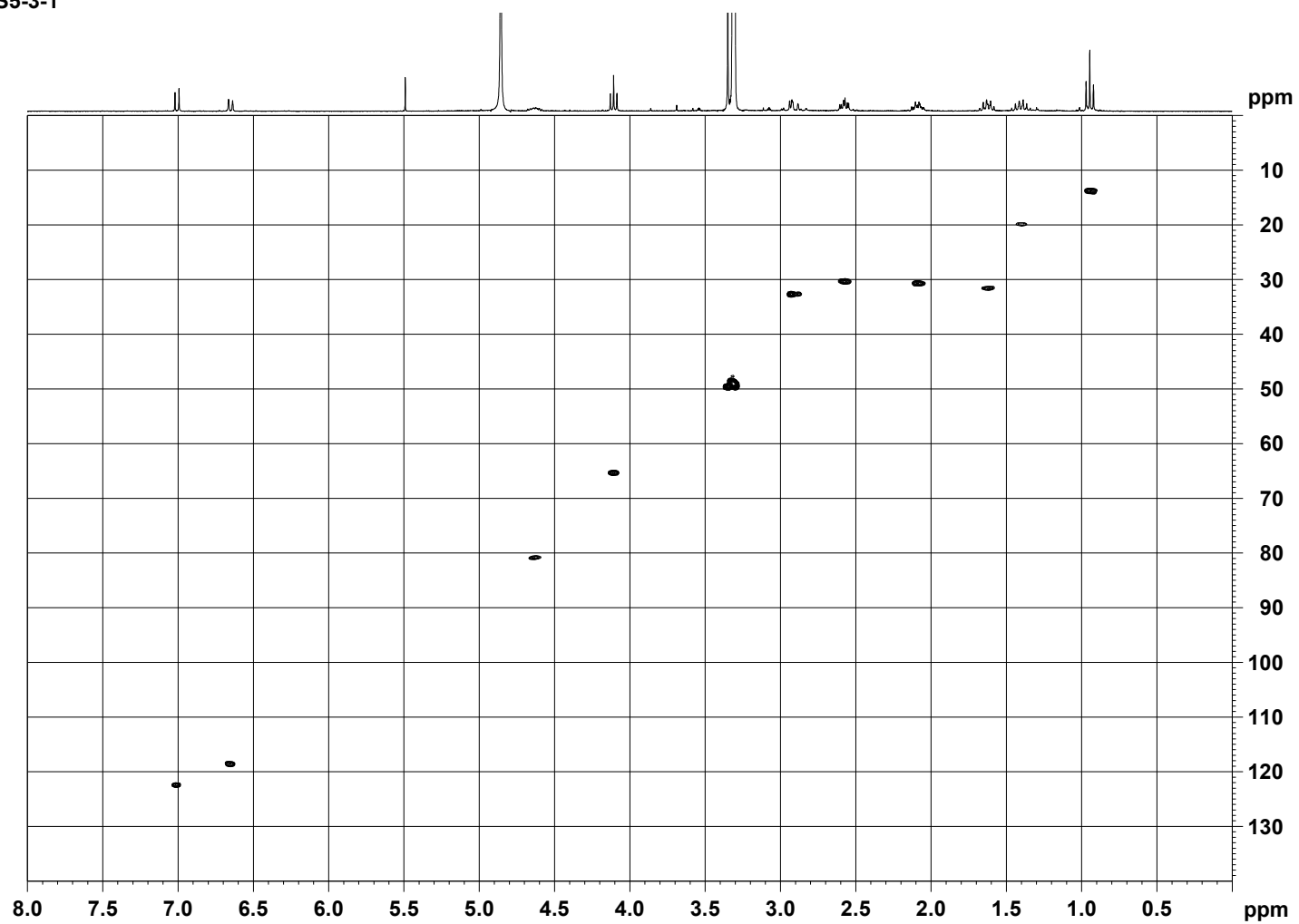
S88. ^1H NMR (300 MHz, CD_3OD) spectrum of compound 16.

Tal60ES5-3-1



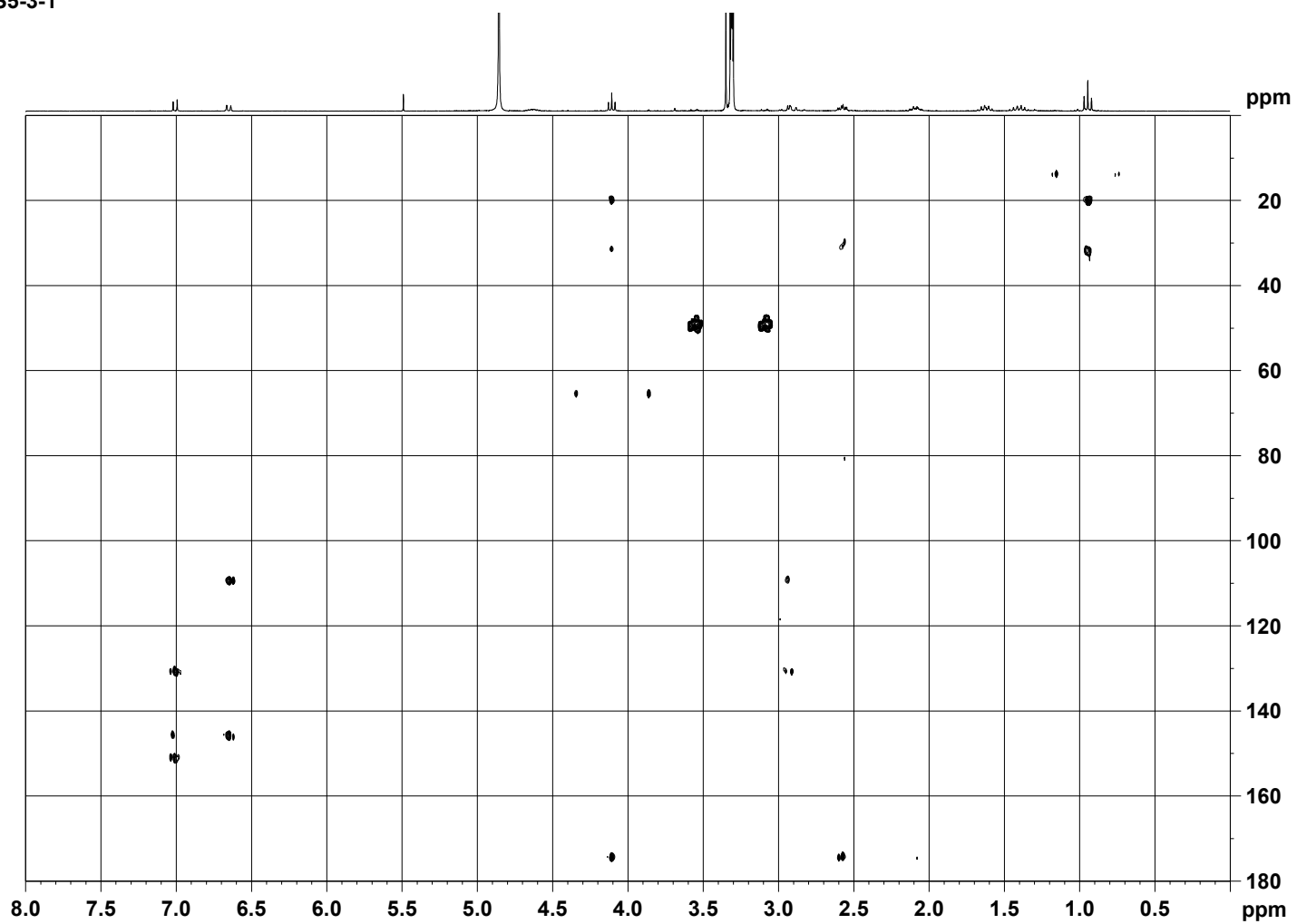
S89. ¹H-¹H COSY (300 MHz, CD₃OD) spectrum of compound 16.

Tal60ES5-3-1

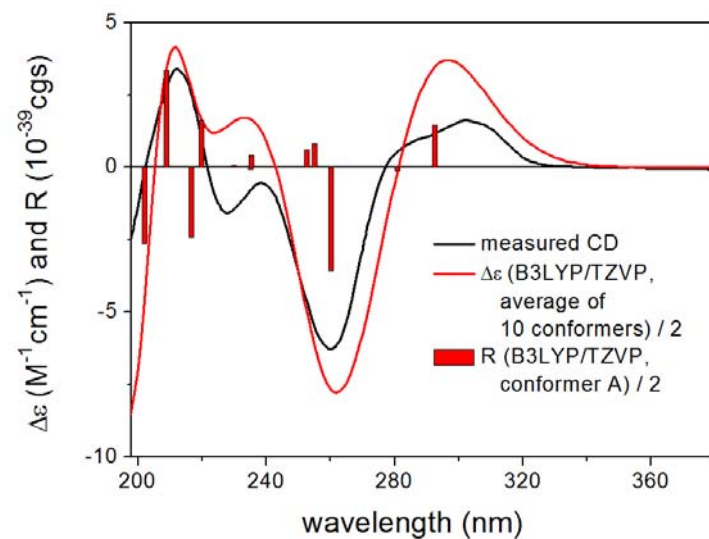


S90. HSQC (300 and 75 MHz, CD₃OD) spectrum of compound 16.

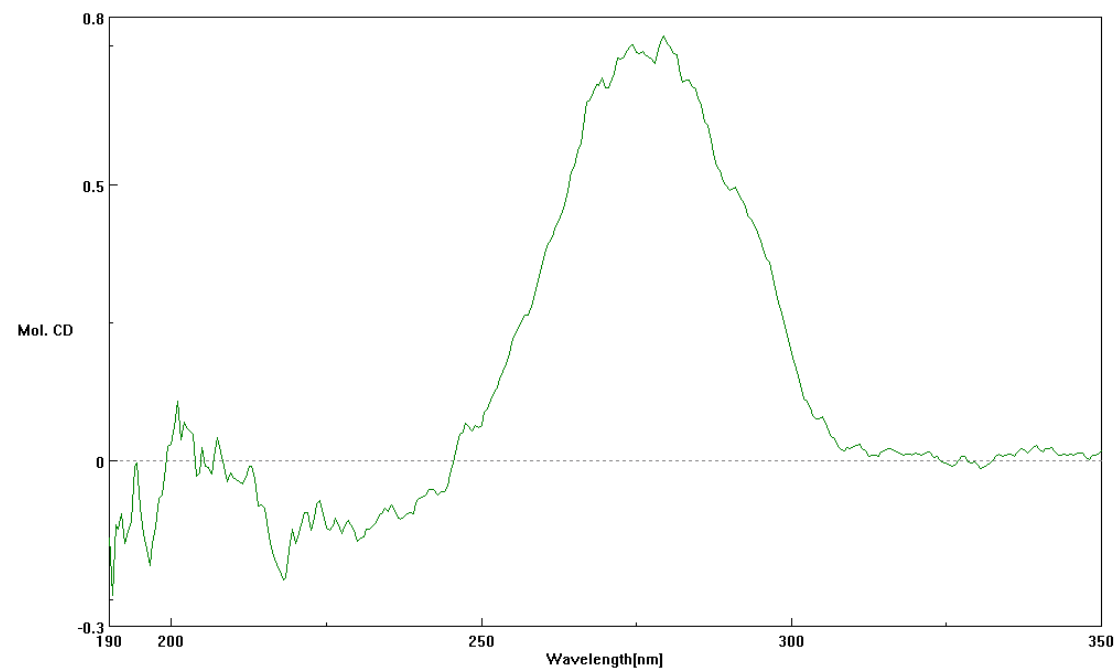
Tal60ES5-3-1



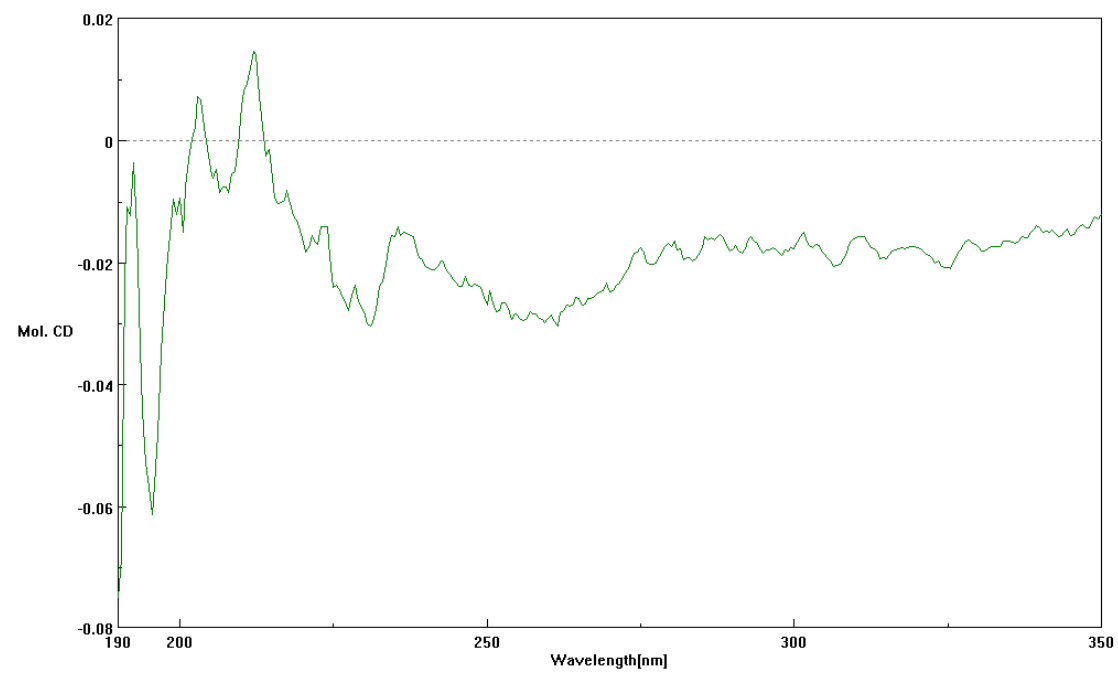
S91. HMBC (300 and 75 MHz, CD_3OD) spectrum of compound 16.



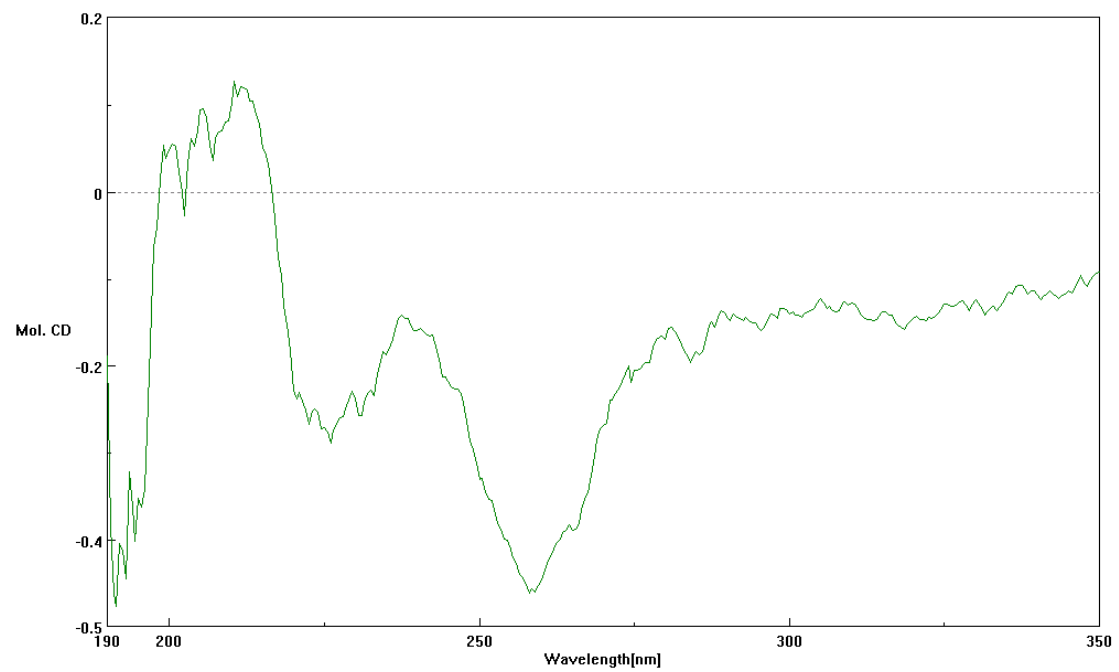
S92. Experimental ECD spectrum of **9** in MeCN compared with the Boltzmann-weighted B3LYP/TZVP PCM/MeCN ECD spectrum of (3*S*,7*S*)-**9** computed for the B97D/TZVP PCM/MeCN conformers. Bars represent the rotational strength values of the lowest-energy conformer.



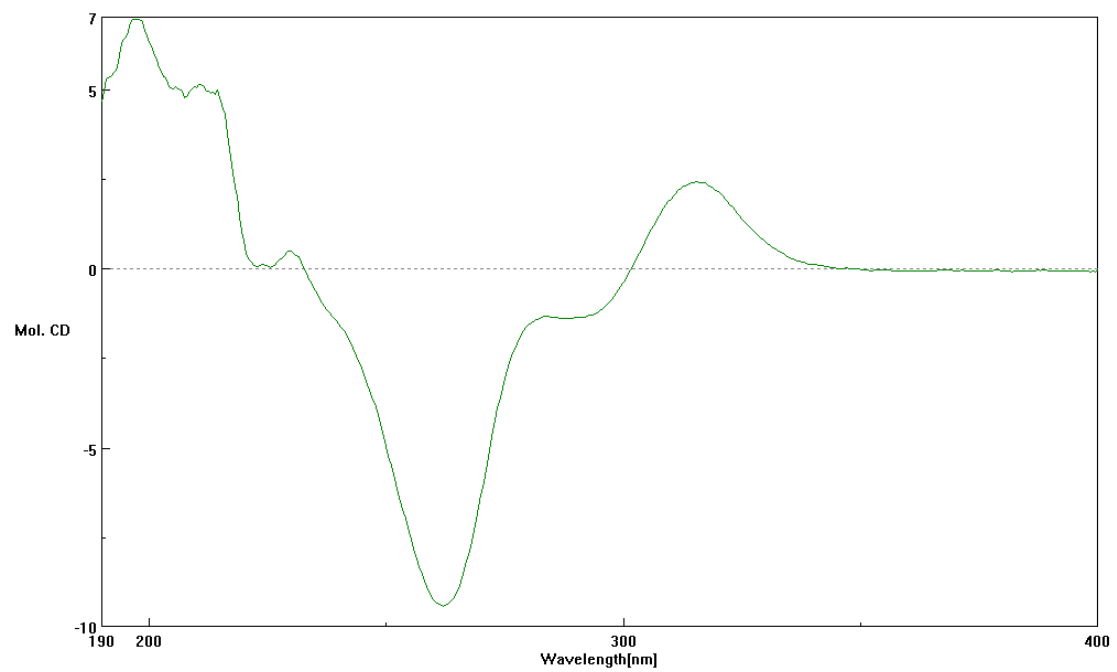
S93. Experimental ECD spectrum of **1** in MeCN



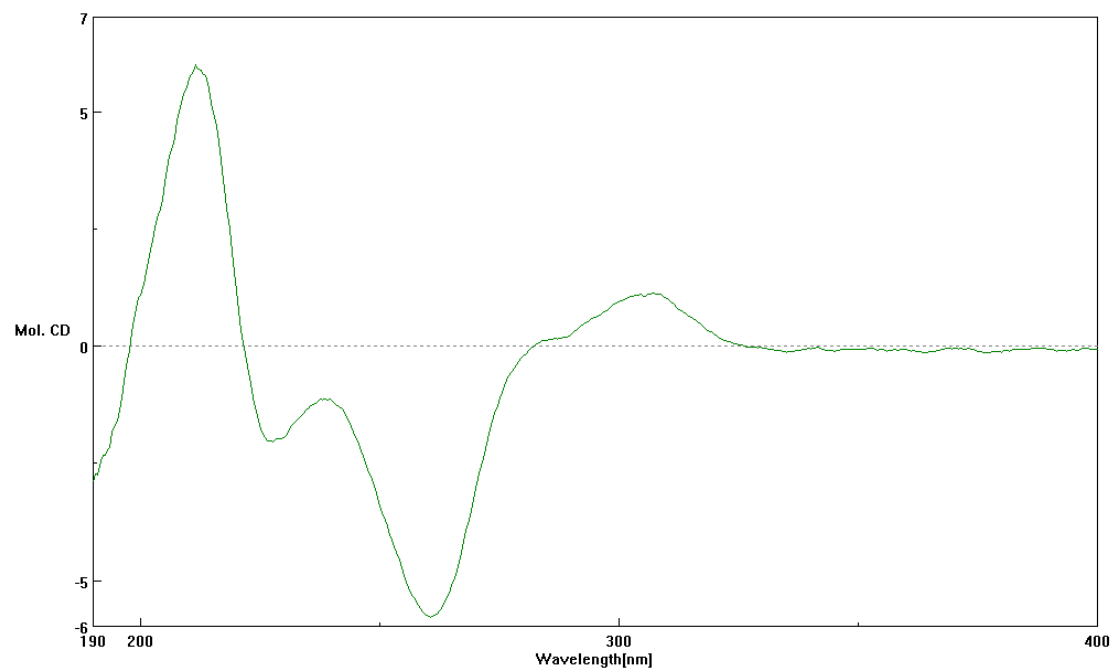
S94. Experimental ECD spectrum of **2** in MeCN



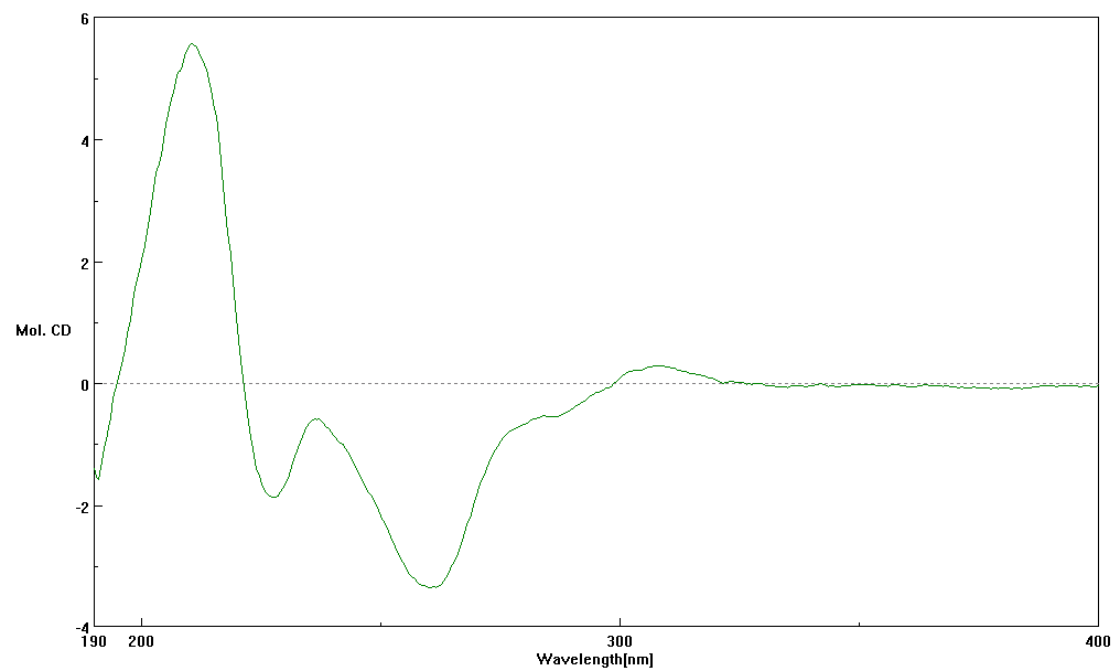
S95. Experimental ECD spectrum of **5** in MeCN



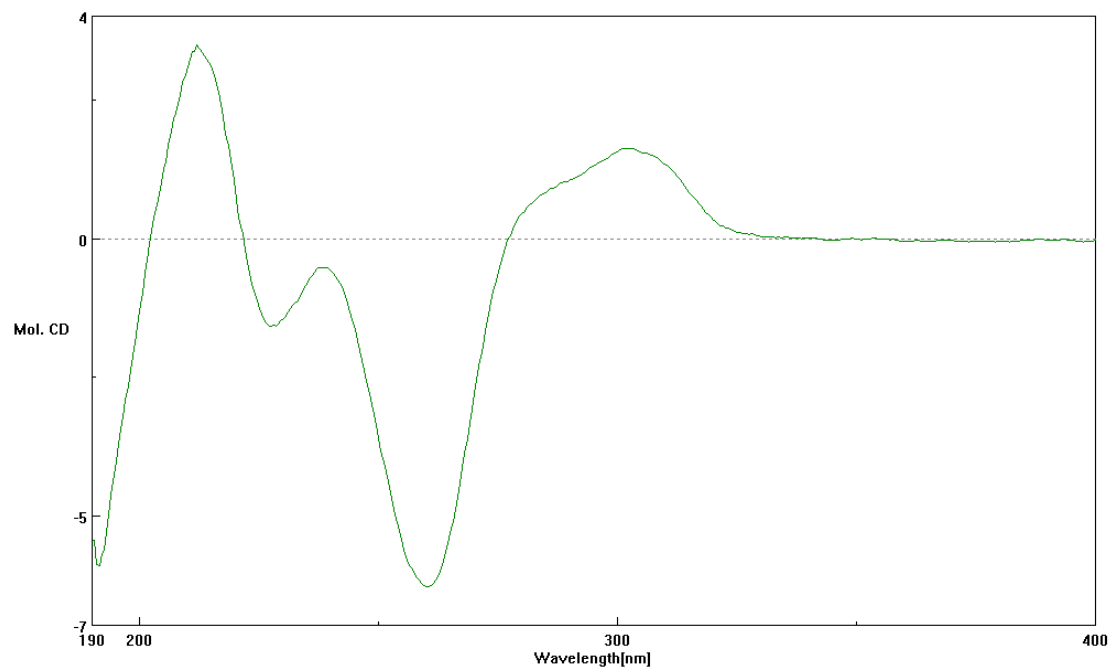
S96. Experimental ECD spectrum of **6** in MeCN



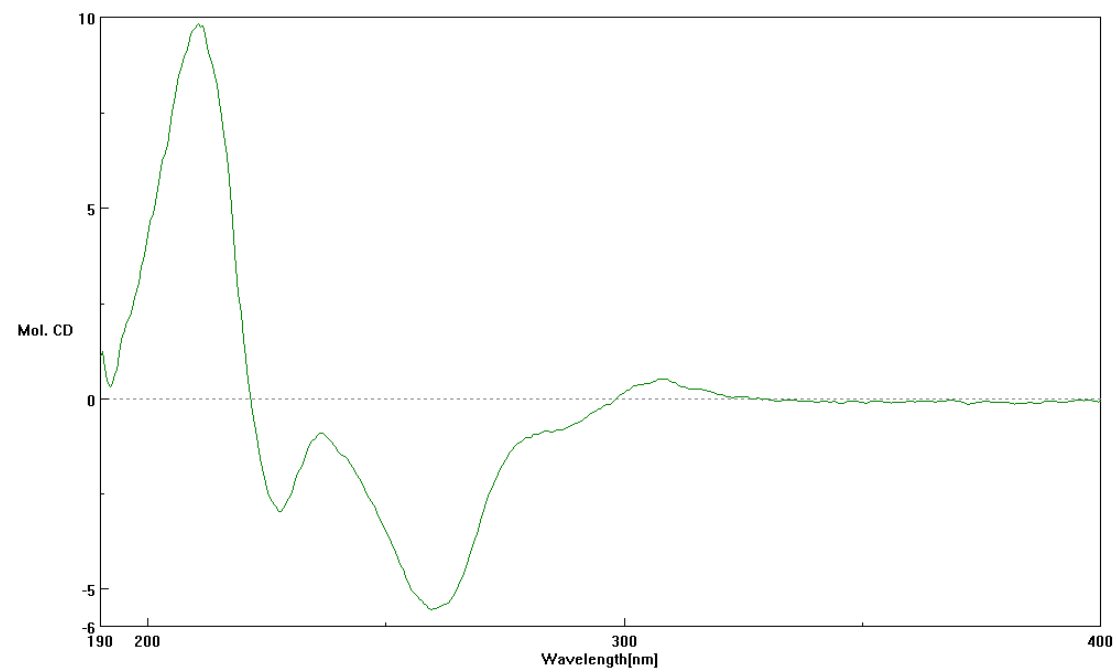
S97. Experimental ECD spectrum of 7 in MeCN



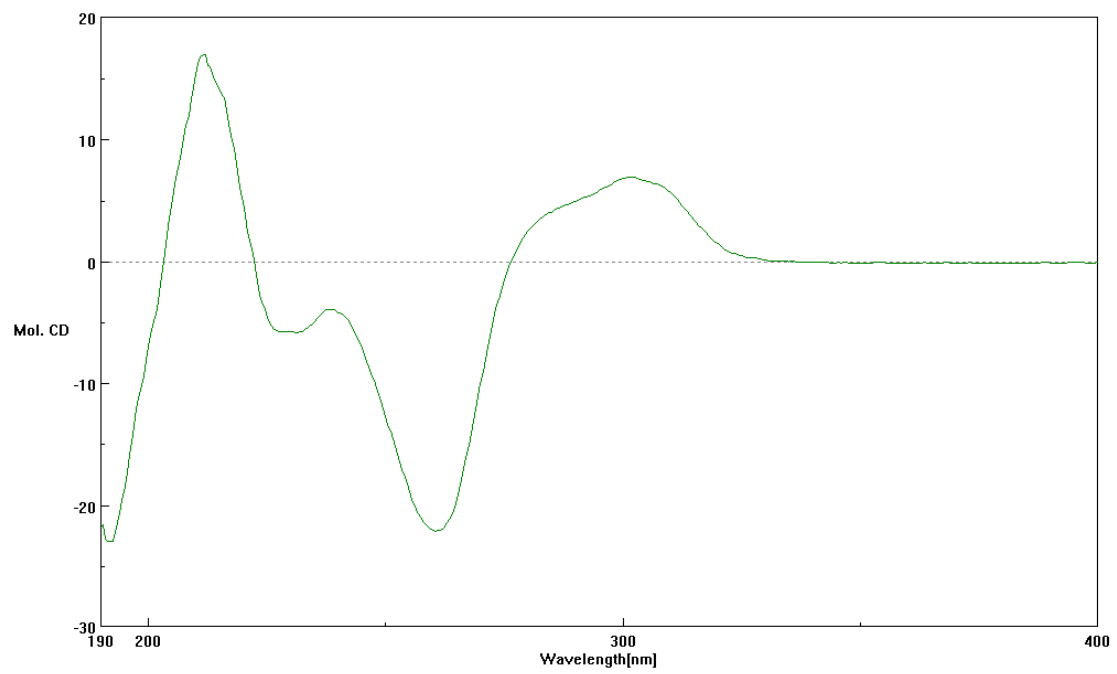
S98. Experimental ECD spectrum of **8** in MeCN



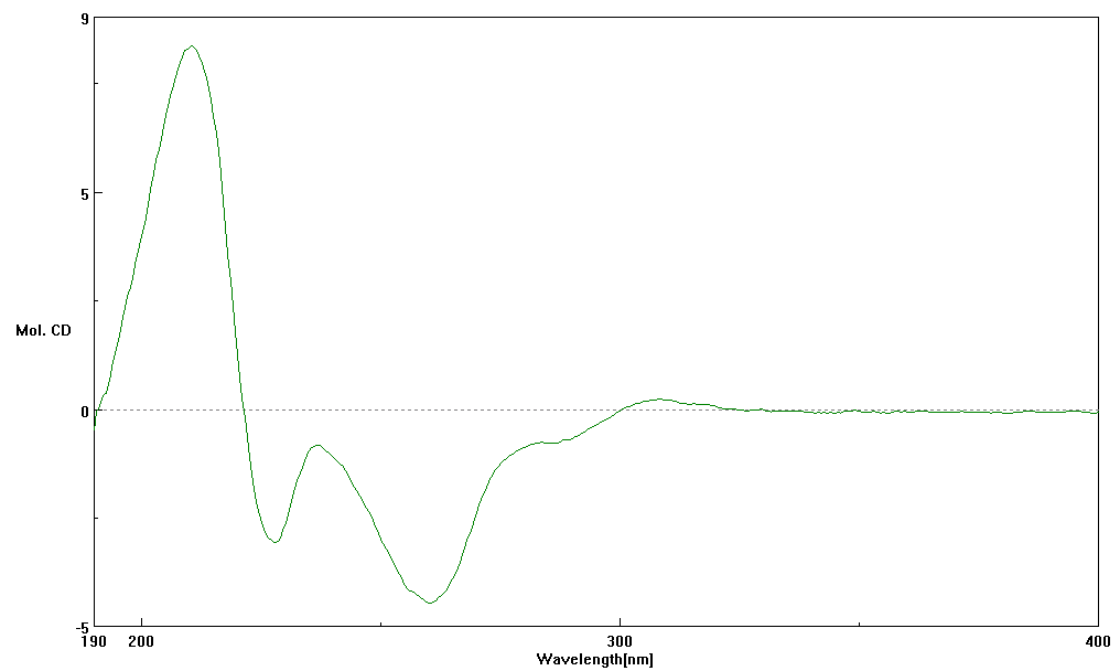
S99. Experimental ECD spectrum of **9** in MeCN



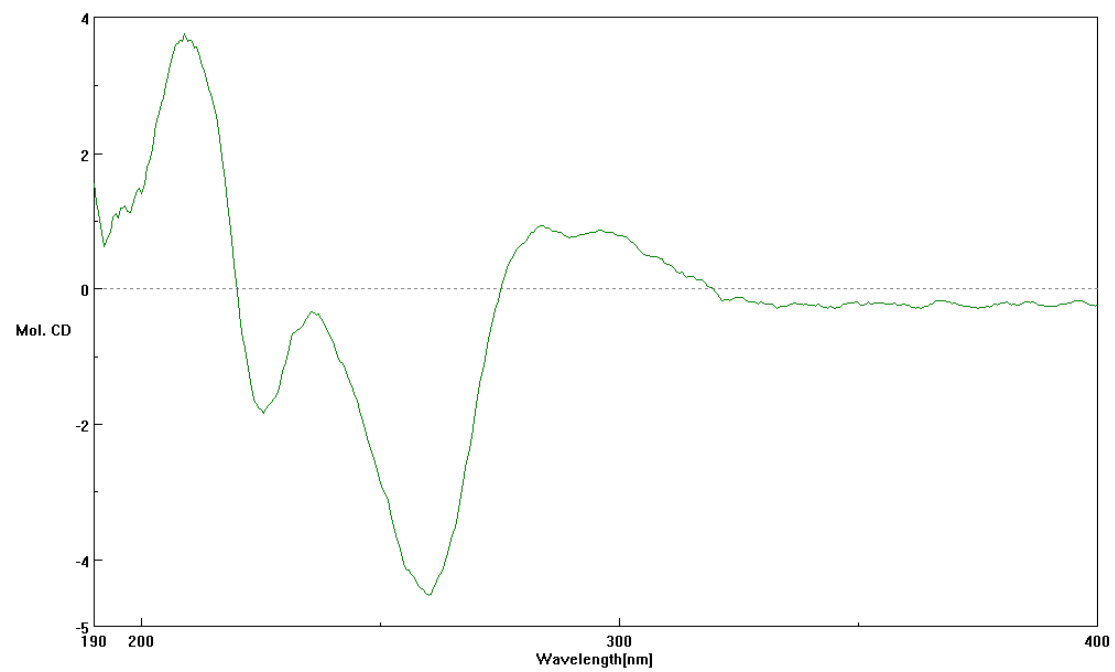
S100. Experimental ECD spectrum of **10** in MeCN



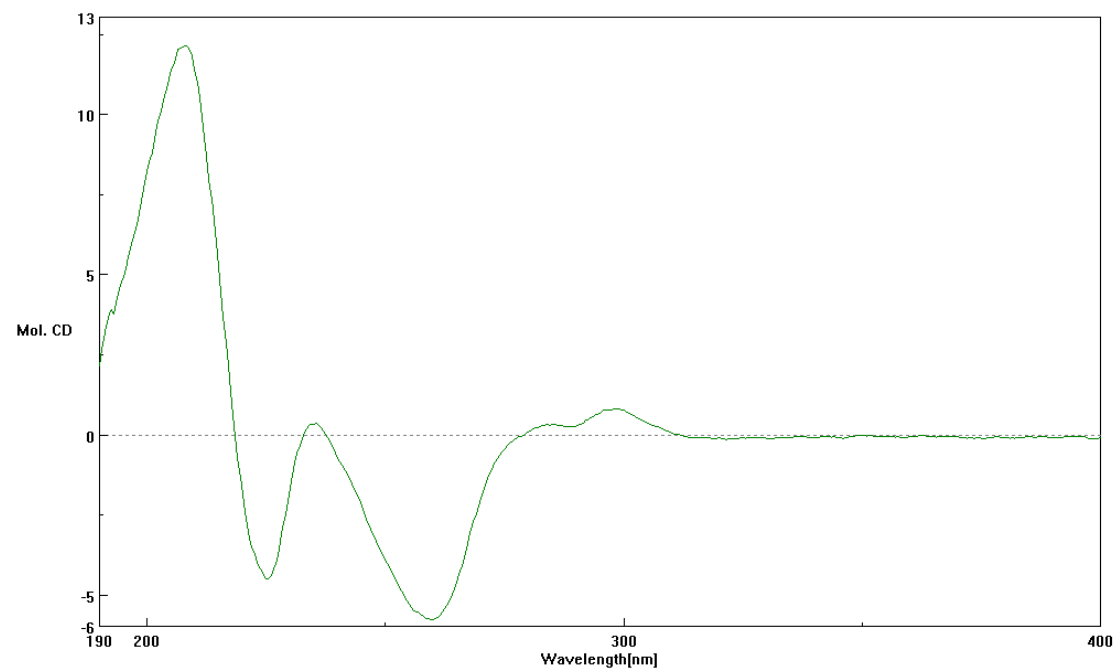
S101. Experimental ECD spectrum of **11** in MeCN



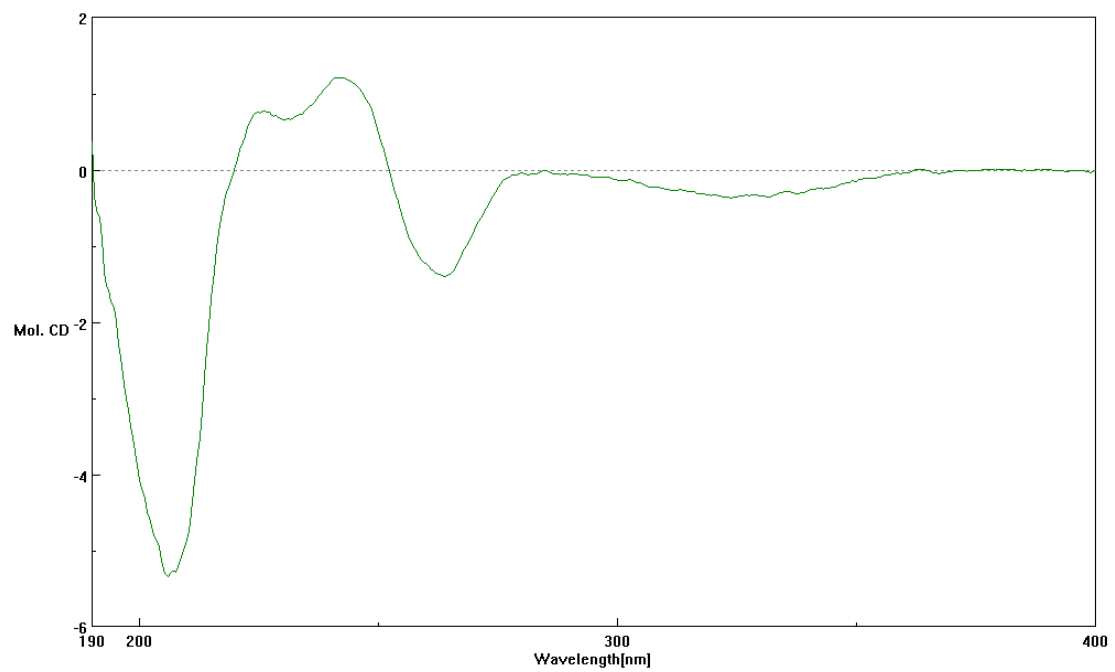
S102. Experimental ECD spectrum of **12** in MeCN



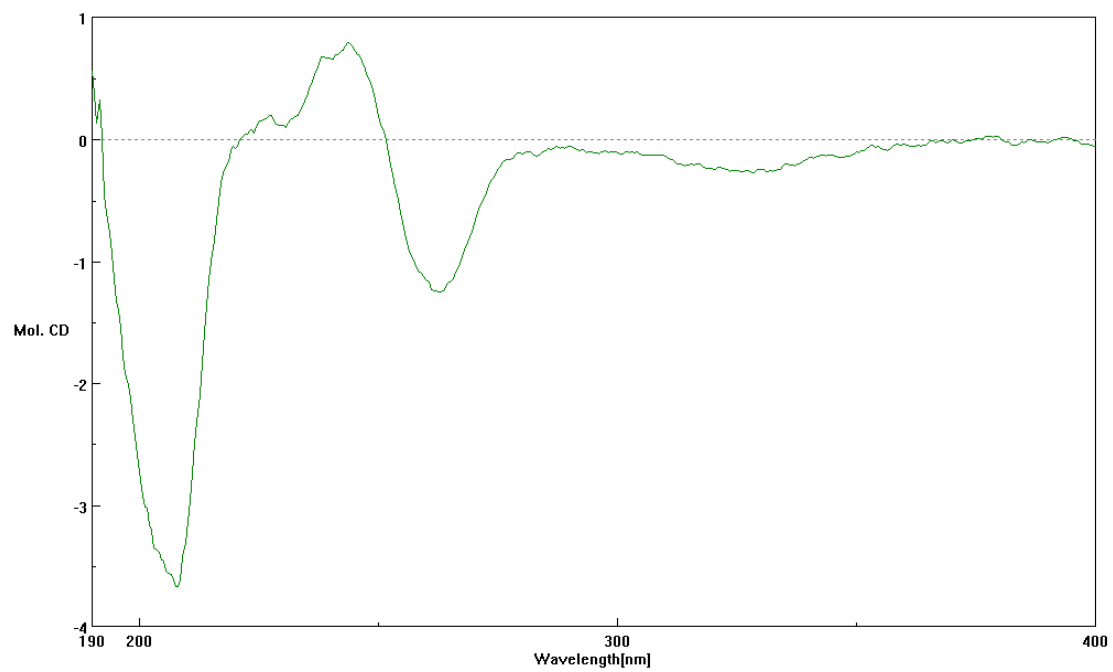
S103. Experimental ECD spectrum of **13** in MeCN



S104. Experimental ECD spectrum of **14** in MeCN



S105. Experimental ECD spectrum of **15** in MeCN



S106. Experimental ECD spectrum of **16** in MeCN