

Supplementary data

Brominated Depsidones with Antibacterial Effects from a Deep-Sea-Derived Fungus *Spiromastix* sp.

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Table S1. ^1H and ^{13}C NMR data and key COSY and HMBC correlations of 1

No.	δ_{H}	δ_{C}	COSY	HMBC
1		111.1, qC		
2		161.7, qC		
3	6.80, s	105.3, CH		C-1, C-2, C-4, C-5
4		159.7, qC		
5		113.6, qC		
6		146.9, qC		
7		162.9, qC		
8	2.81, t (7.9)	36.0, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.54, m	23.0, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.89, t (7.3)	14.3, CH ₃	H ₂ -9	C-8, C-9
1'		141.3, C		
2'		144.6, C		
3'	6.50, d (2.7)	105.5, CH	H-5'	C-1', C-2', C-4', C-5'
4'		155.2, C		
5'	6.47, d (2.7)	113.2, CH	H-3'	C-1', C-3', C-4', C-7'
6'		135.8, C		
7'	2.65, t (7.8)	31.4, CH ₂	H ₂ -8'	C-1', C-5', C-6', C-8', C-9'
8'	1.57, m	23.7, CH ₂	H ₂ -7', H ₃ -9'	C-6', C-7', C-9'
9'	0.97, t (7.3)	14.4, CH ₃	H ₂ -8'	C-7', C-8'

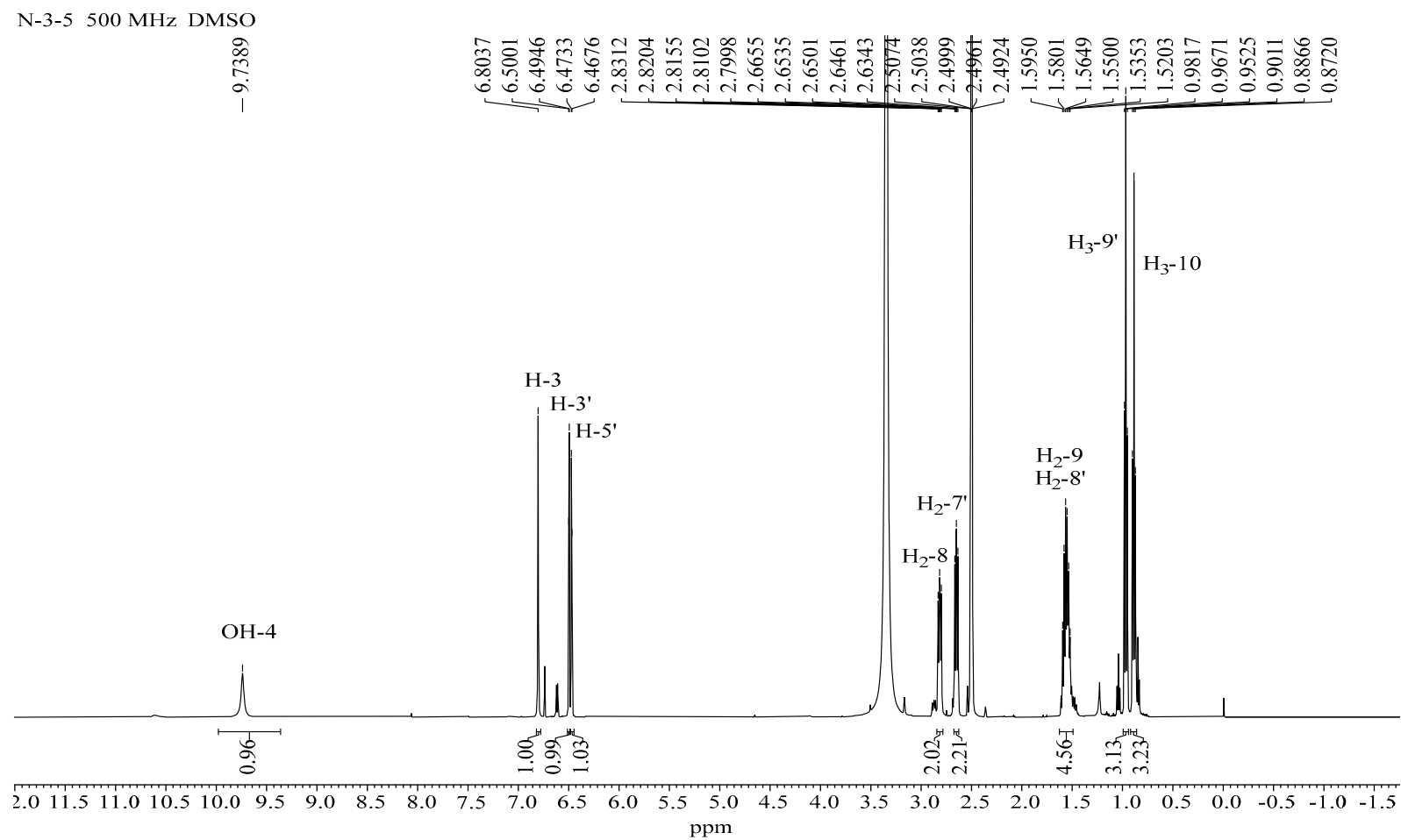


Figure S1. ^1H -NMR spectrum of **1** in $\text{DMSO-}d_6$ (500 MHz)

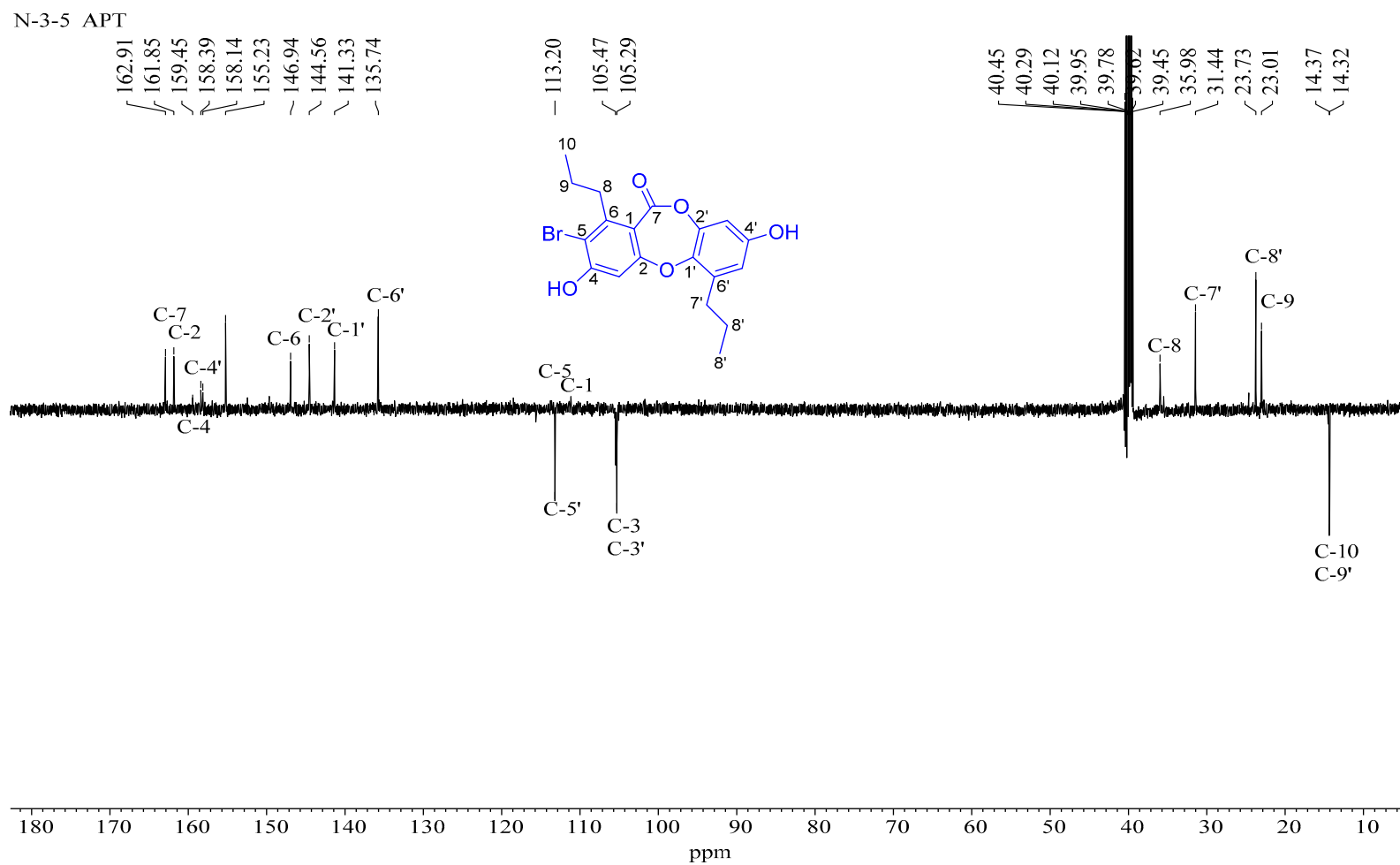


Figure S2. APT spectrum of **1** in DMSO-*d*₆ (125 MHz)

N-3-5 HSQC

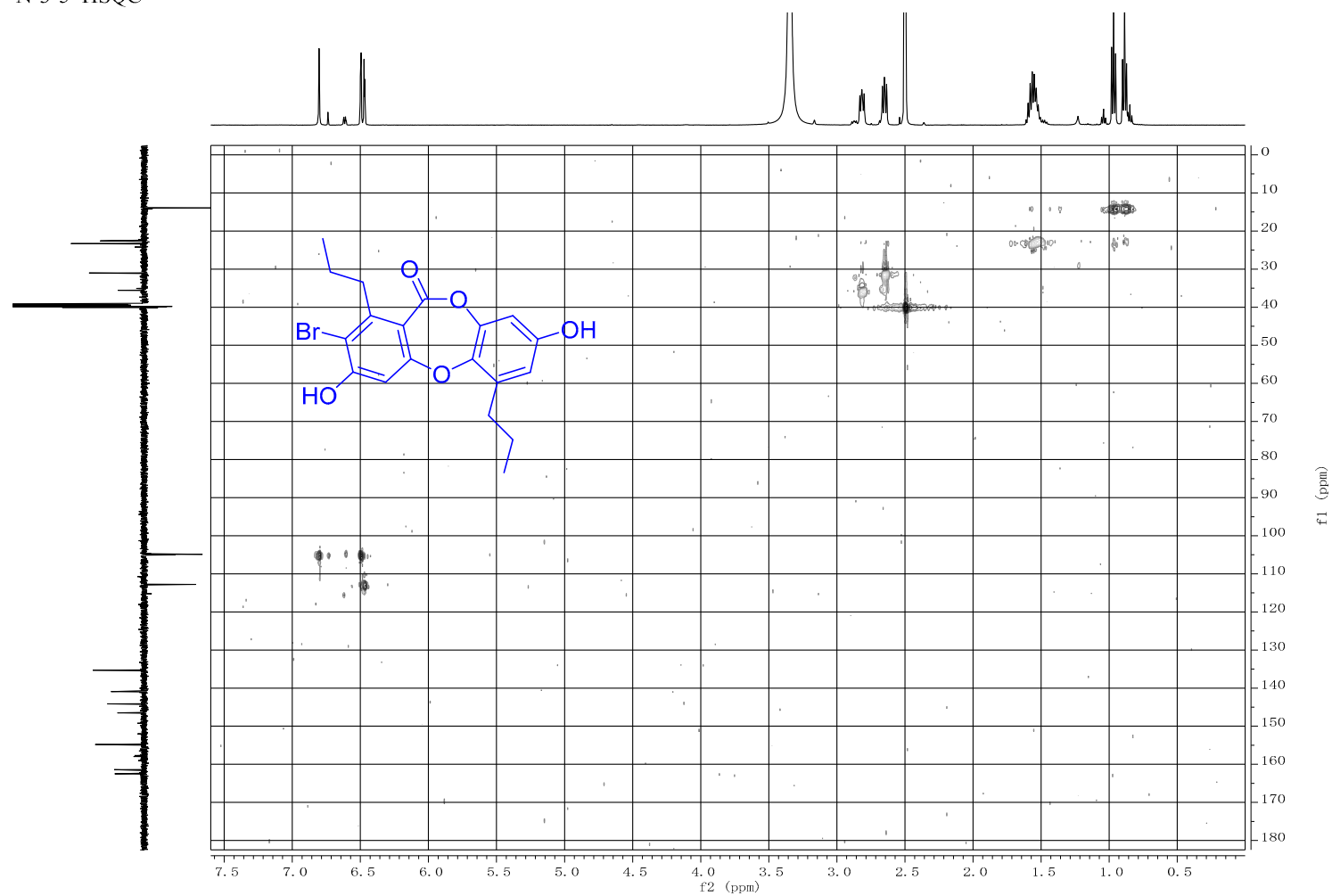


Figure S3. HSQC spectrum of **1** in $\text{DMSO}-d_6$

N-3-5 COSY

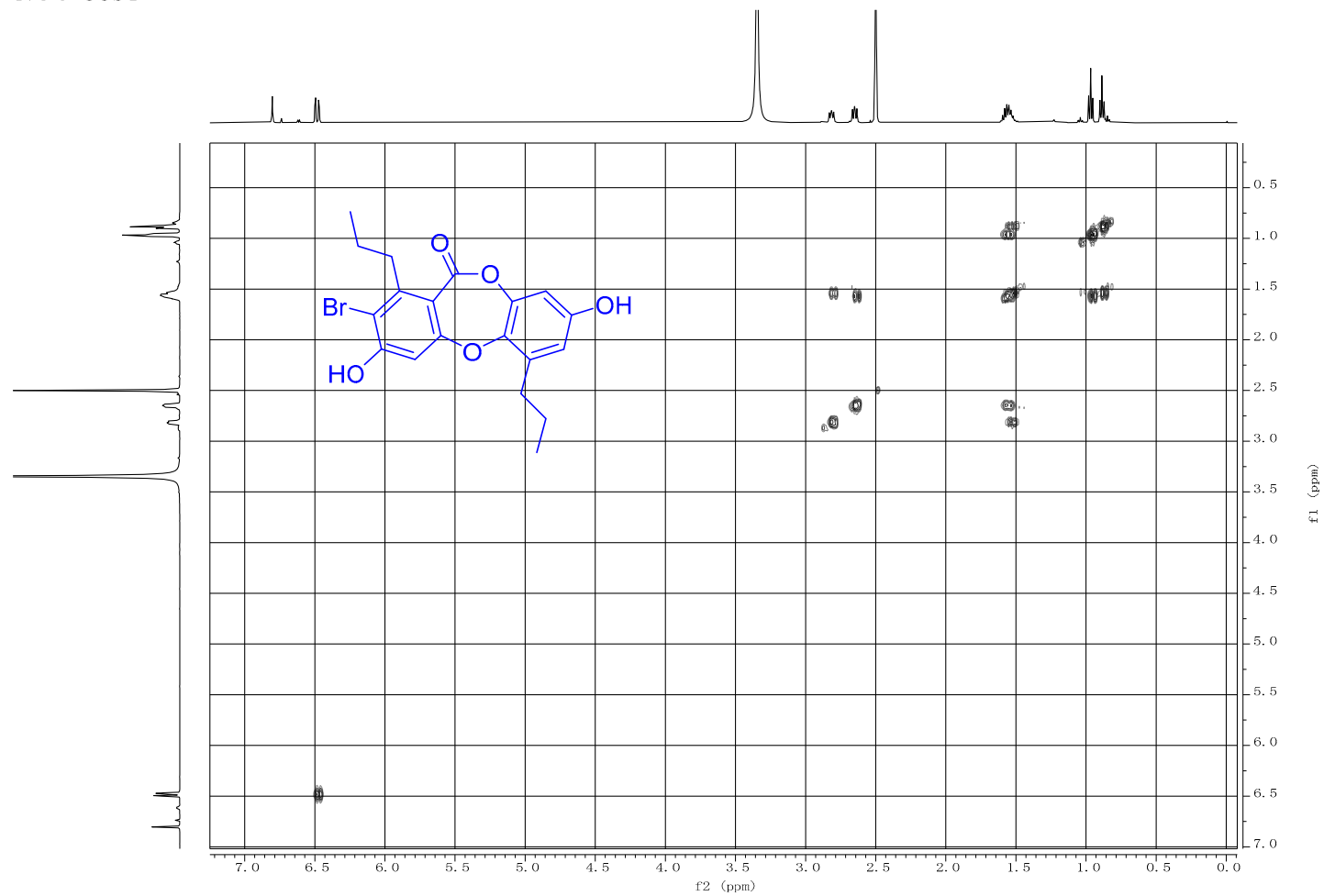


Figure S4. ^1H - ^1H COSY spectrum of **1** in $\text{DMSO-}d_6$

N-3-5 HMBC

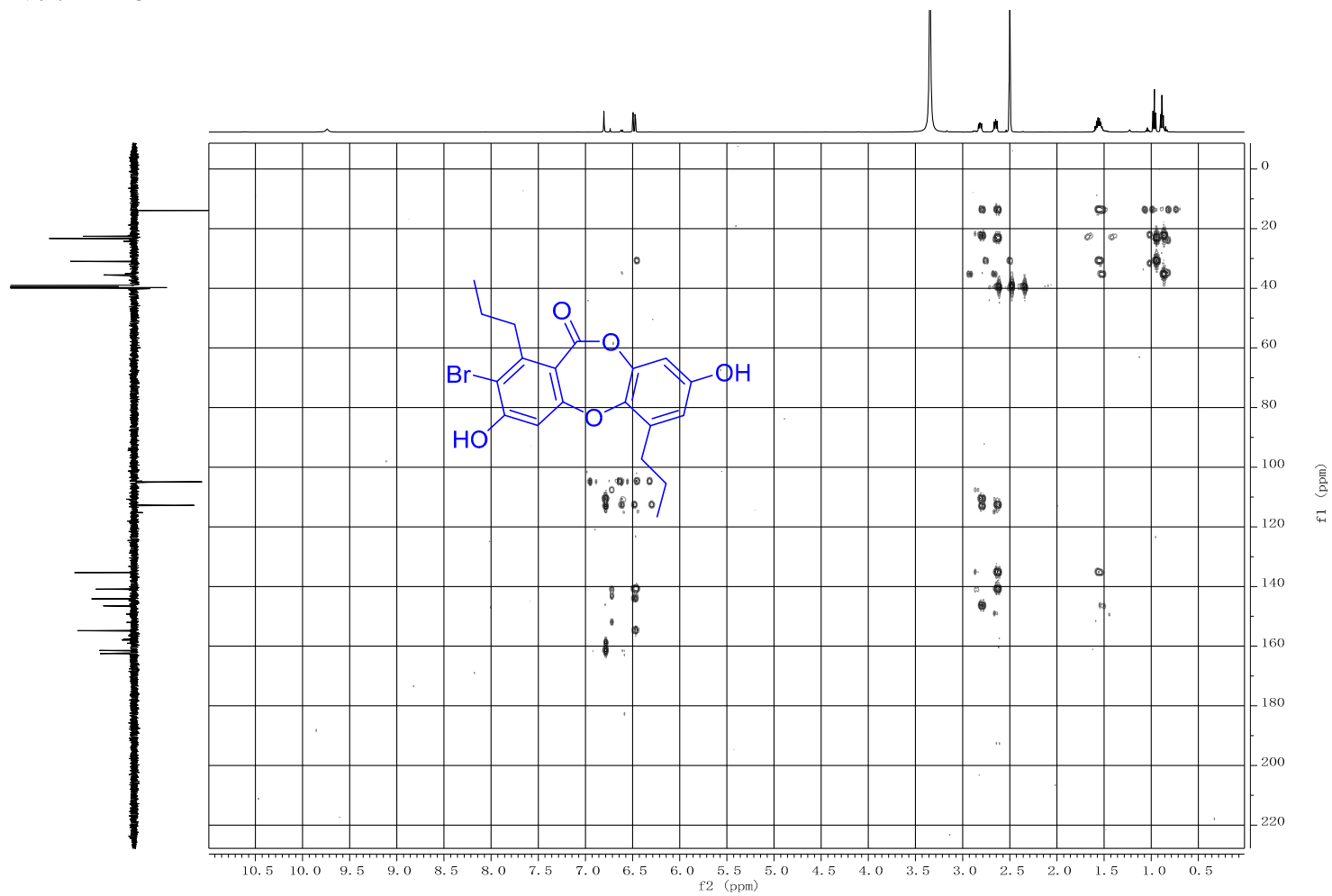


Figure S5. HMBC spectrum of **1** in DMSO-*d*₆

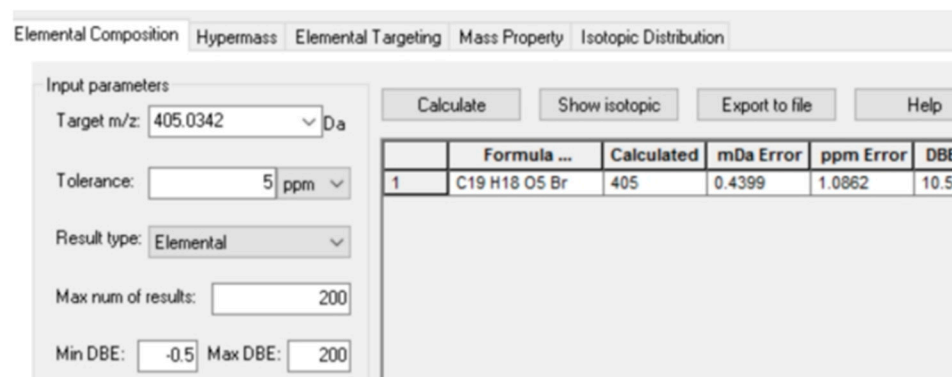
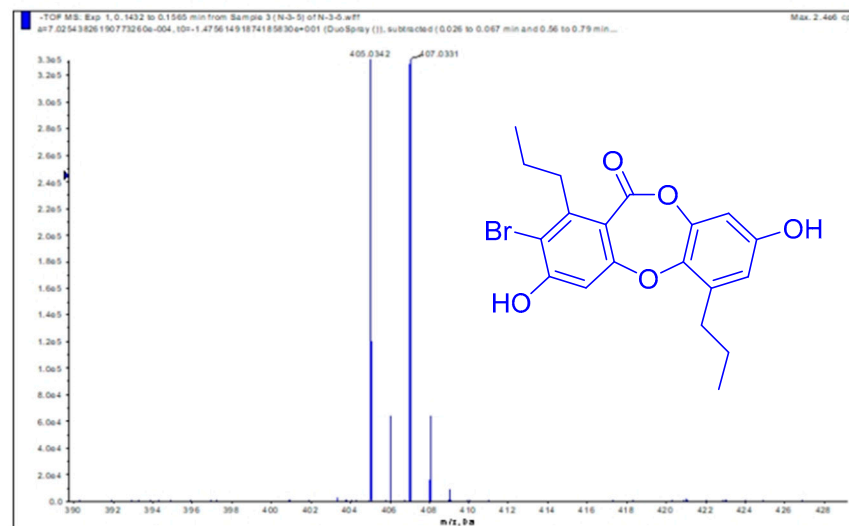


Figure S6. HRESIMS spectrum of **1**

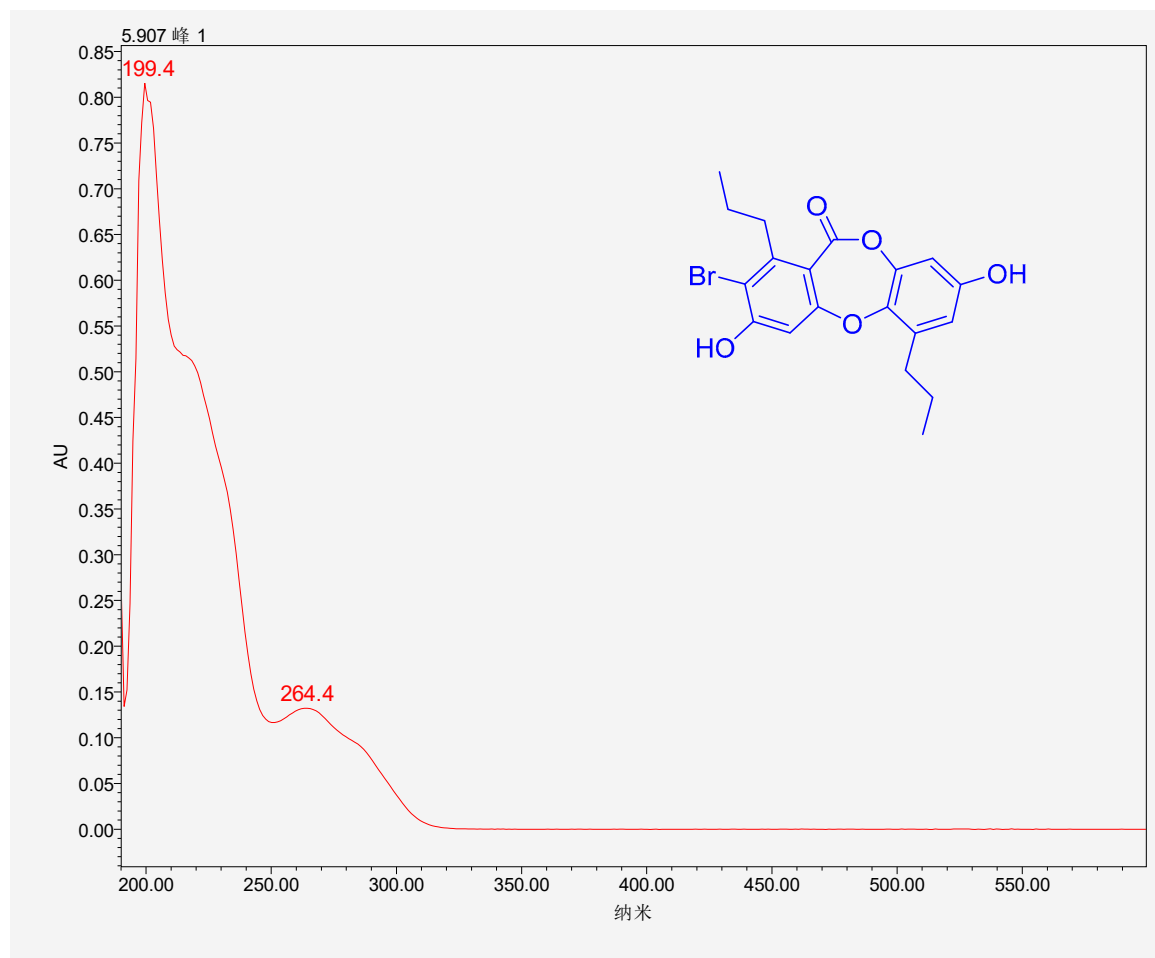


Figure S7. UV spectrum of **1**

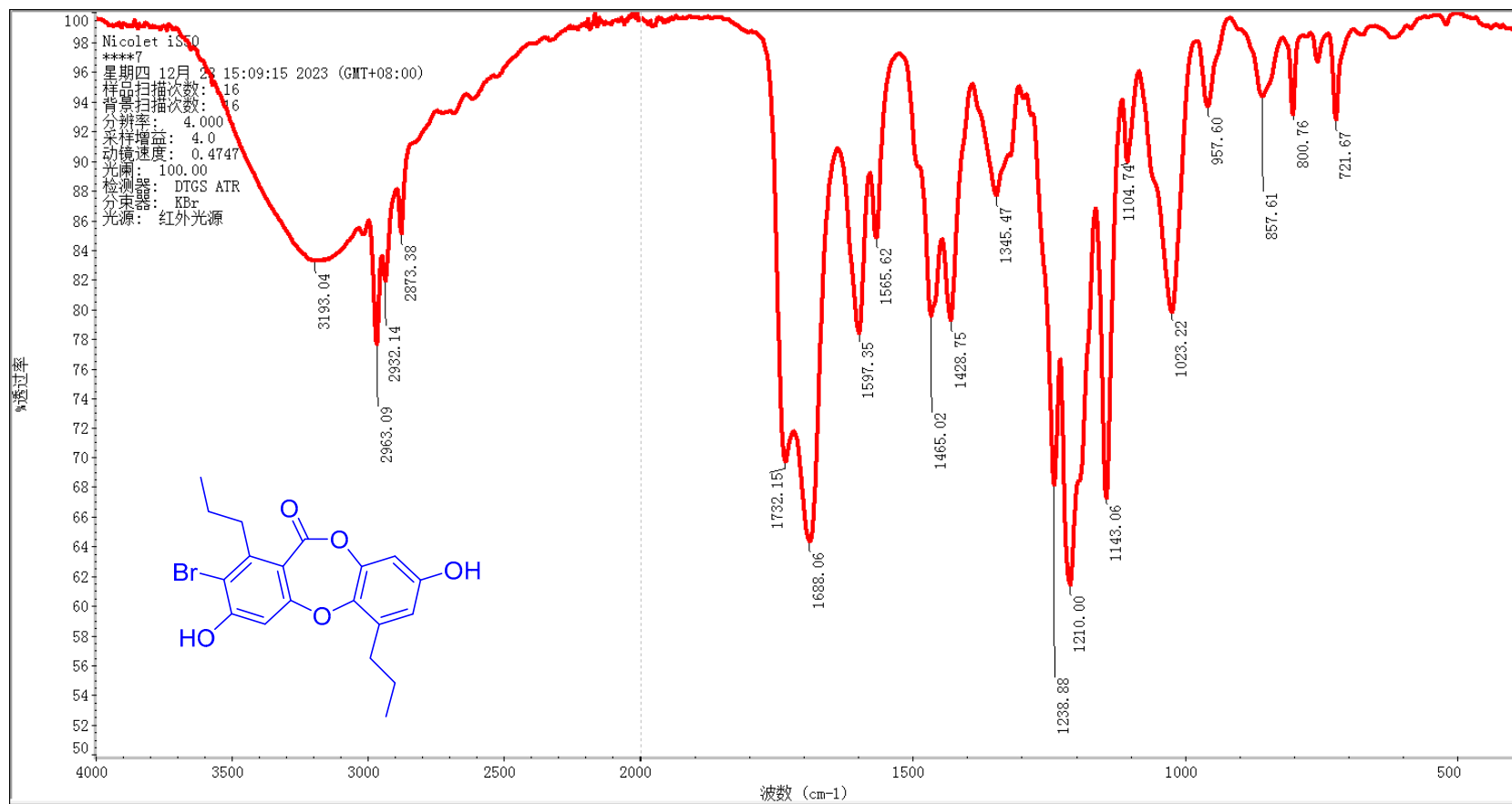


Figure S8. IR spectrum of **1**

Table S2. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 2

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.5, C		
2		160.4, C		
3		98.9, C		
4		159.6, C		
5	6.79, s	115.1, CH		C-1, C-3, C-4, C-8
6		148.5, C		
7		162.1, C		
8	2.66, t (7.8)	35.7, CH ₂		C-1, C-5, C-6, C-9, C-10
9	1.49, m	24.5, CH ₂		C-6, C-8, C-10
10	0.86, t (7.3)	14.3, CH ₃		C-8, C-9
1'		142.0, C		
2'		143.4, C		
3'	6.77, s	105.6, CH		C-1', C-2', C-4', C-5'
4'		152.9, C		
5'		108.8, C		
6'		136.0, C		
7'	3.13, t (8.0)	33.0, CH ₂		C-1', C-5', C-6', C-8', C-9'
8'	1.48, m	23.1, CH ₂		C-6', C-7', C-9'
9'	1.00, t (7.3)	14.4, CH ₃		C-7', C-8'

N-5-2 500 MHz DMSO

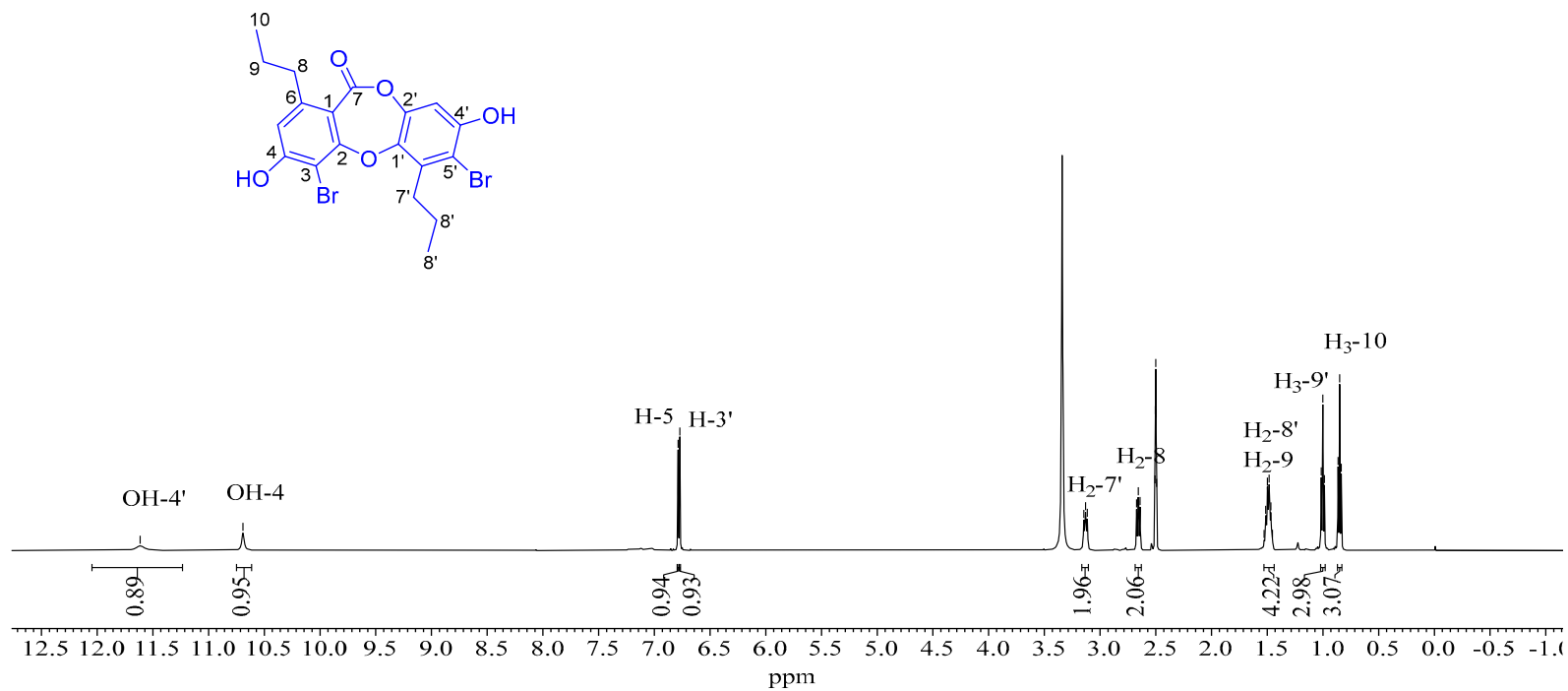
— 11.6136

— 10.6915

6.7868
6.7716

3.1463
3.1304
3.1143
2.6725
2.6605
2.6570
2.6530
2.6414
2.5078
2.5040
2.5000
2.4961
2.4924

1.5134
1.4985
1.4823
1.4679
1.4533
1.0157
1.0012
0.9867
0.8643
0.8498
0.8351



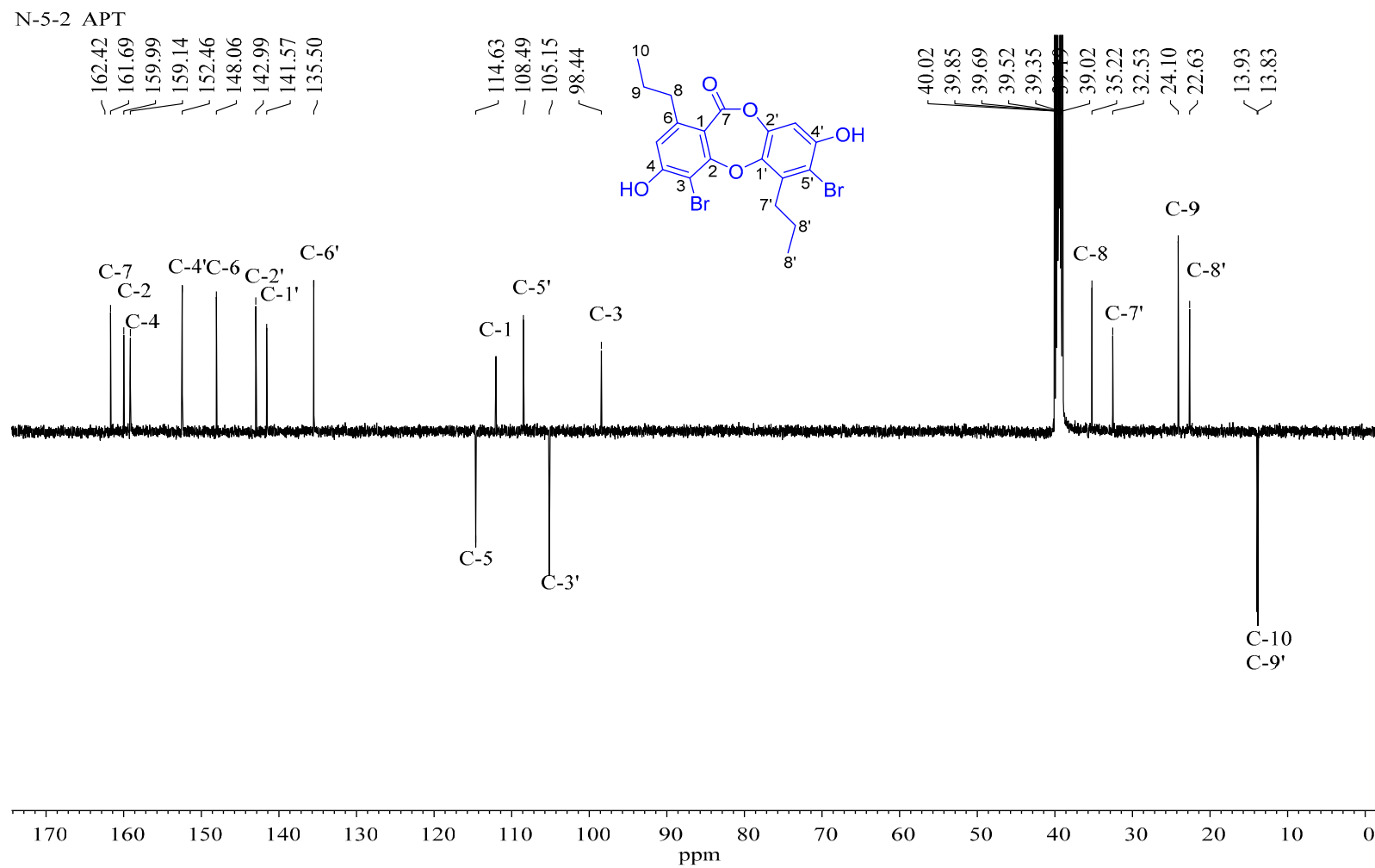


Figure S10. APT spectrum of **2** in DMSO-*d*₆ (125 MHz)

N-5-2 HSQC

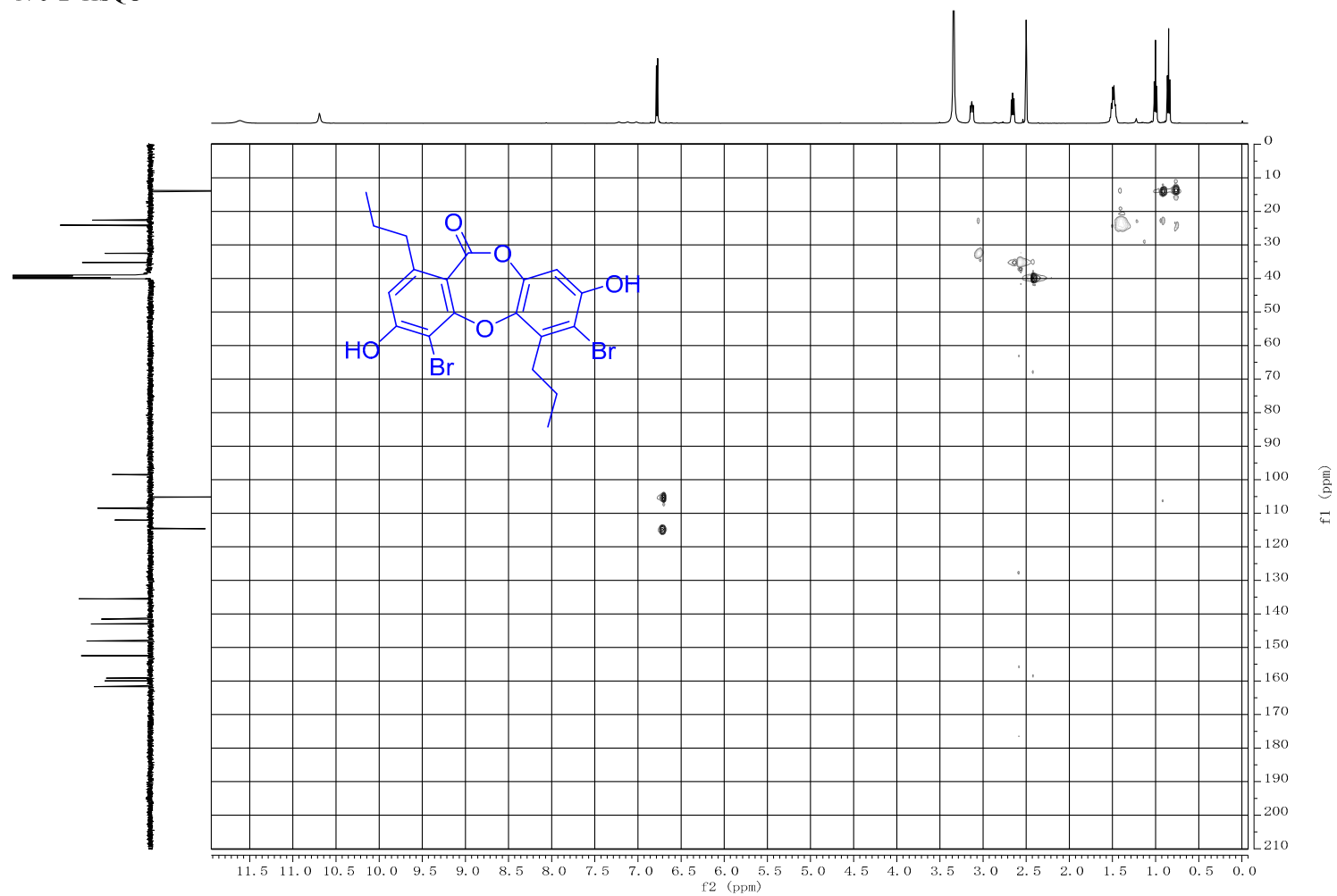


Figure S11. HSQC spectrum of **2** in DMSO-*d*₆

N-5-2 COSY

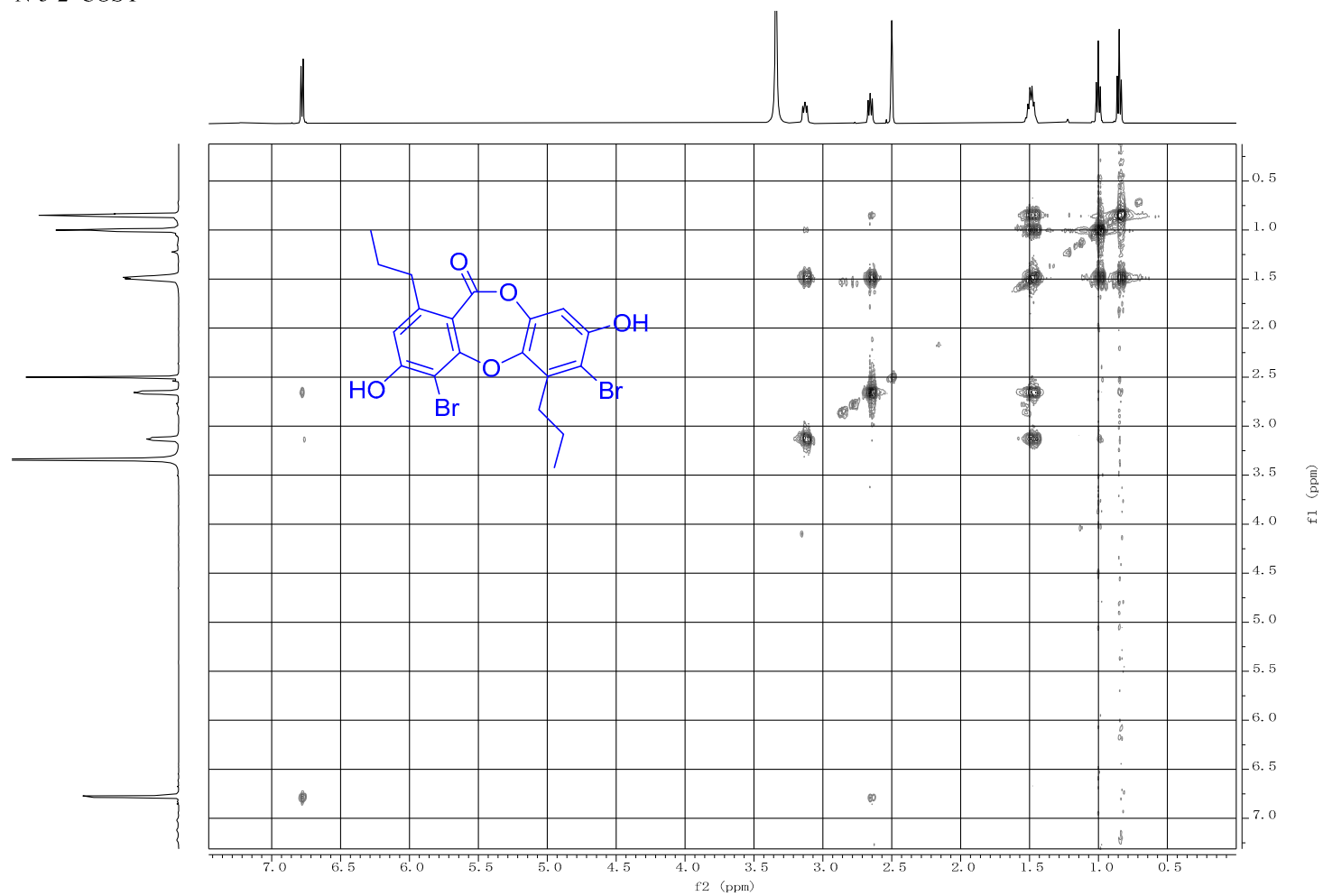


Figure S12. ^1H - ^1H COSY spectrum of **2** in $\text{DMSO}-d_6$

N-5-2 HMBC

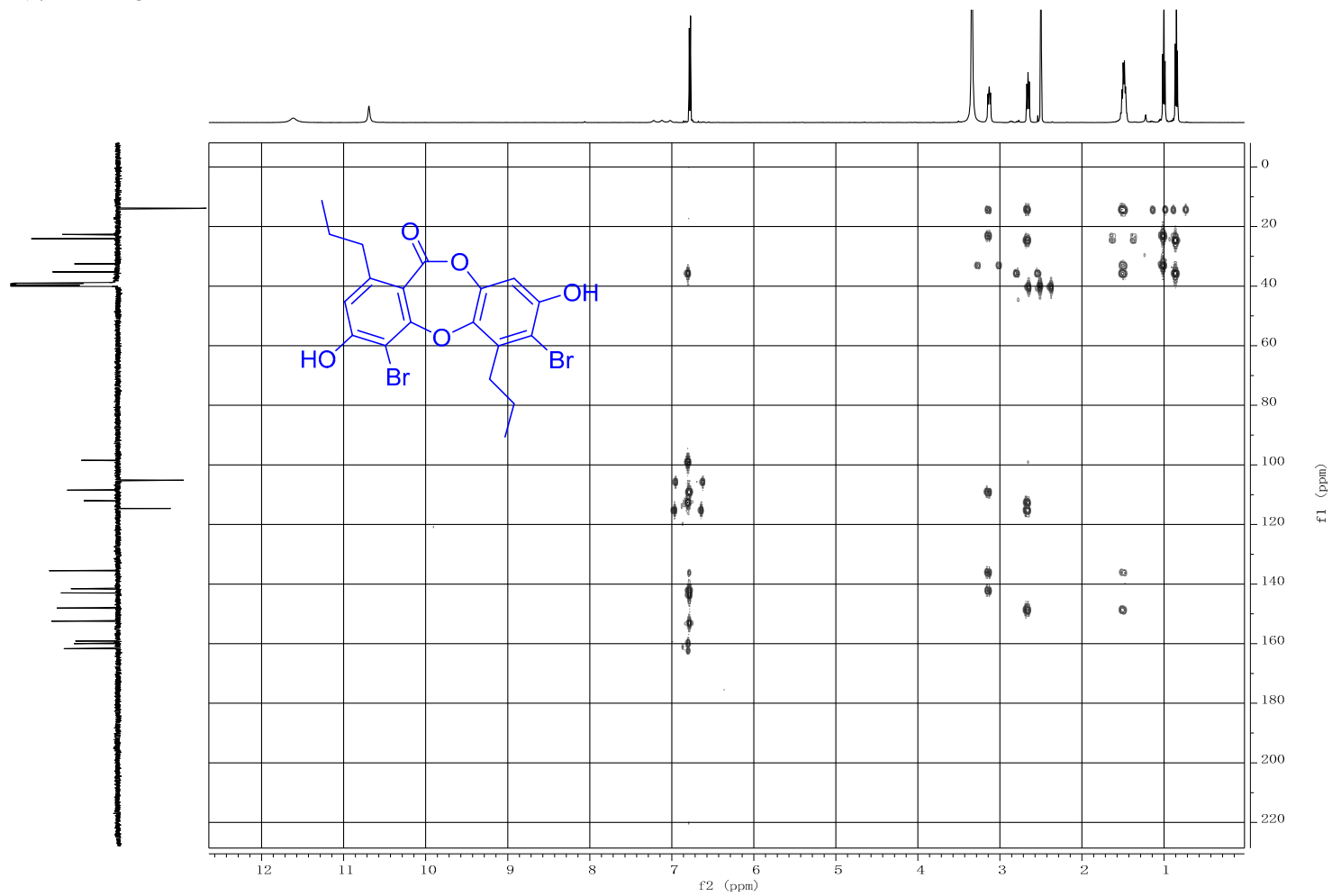


Figure S13. HMBC spectrum of **2** in DMSO-*d*₆

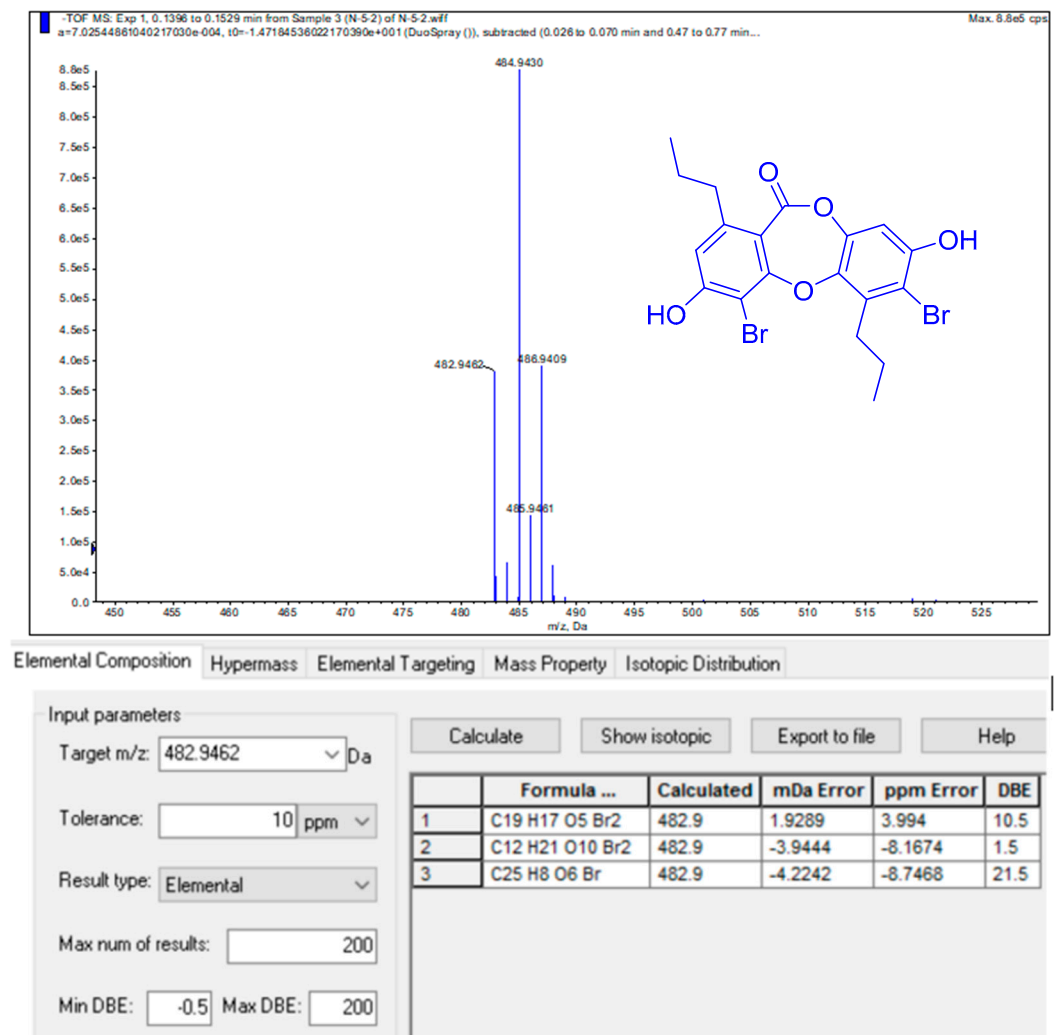


Figure S14. HRESIMS spectrum of 2

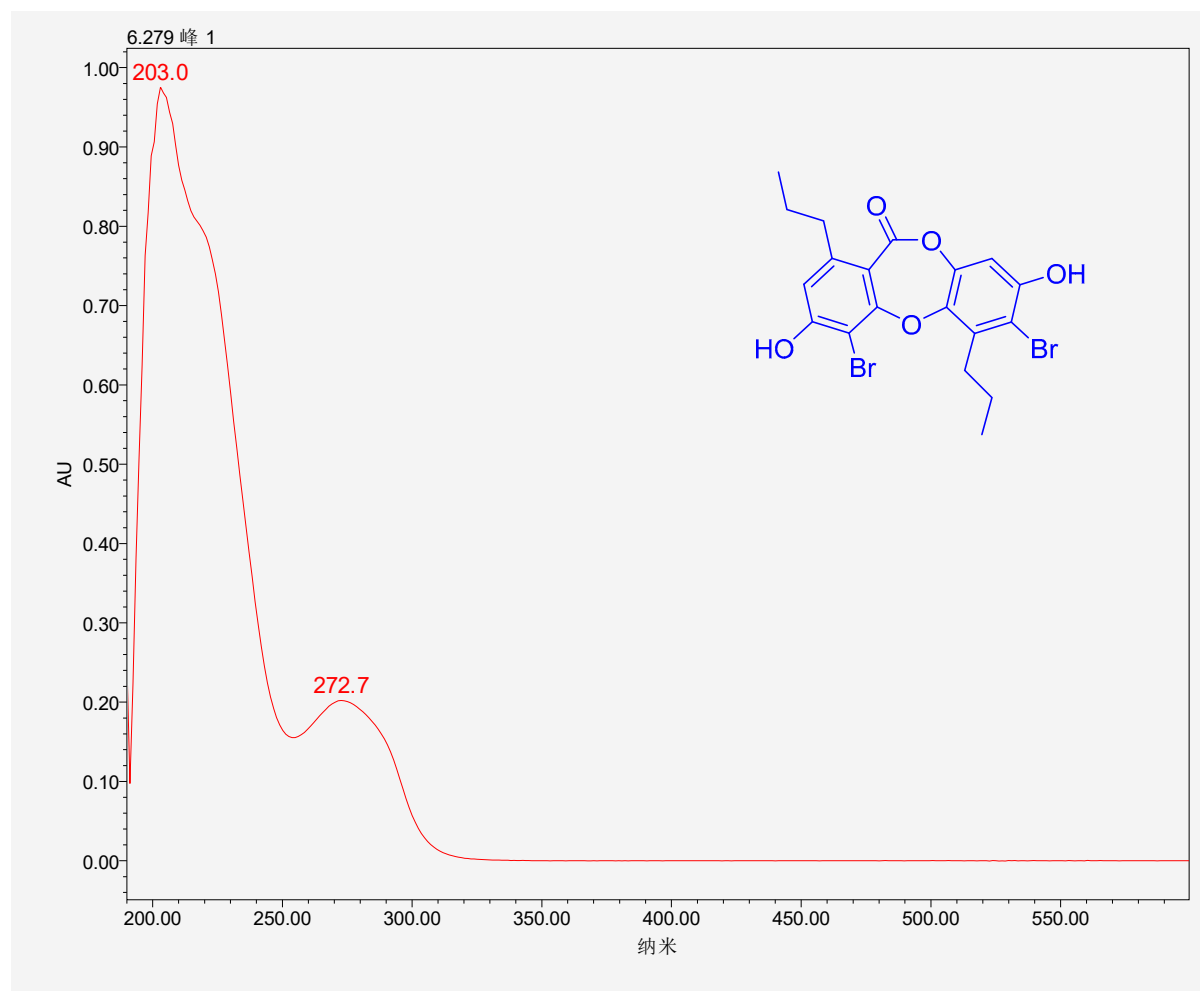


Figure S15. UV spectrum of **2**

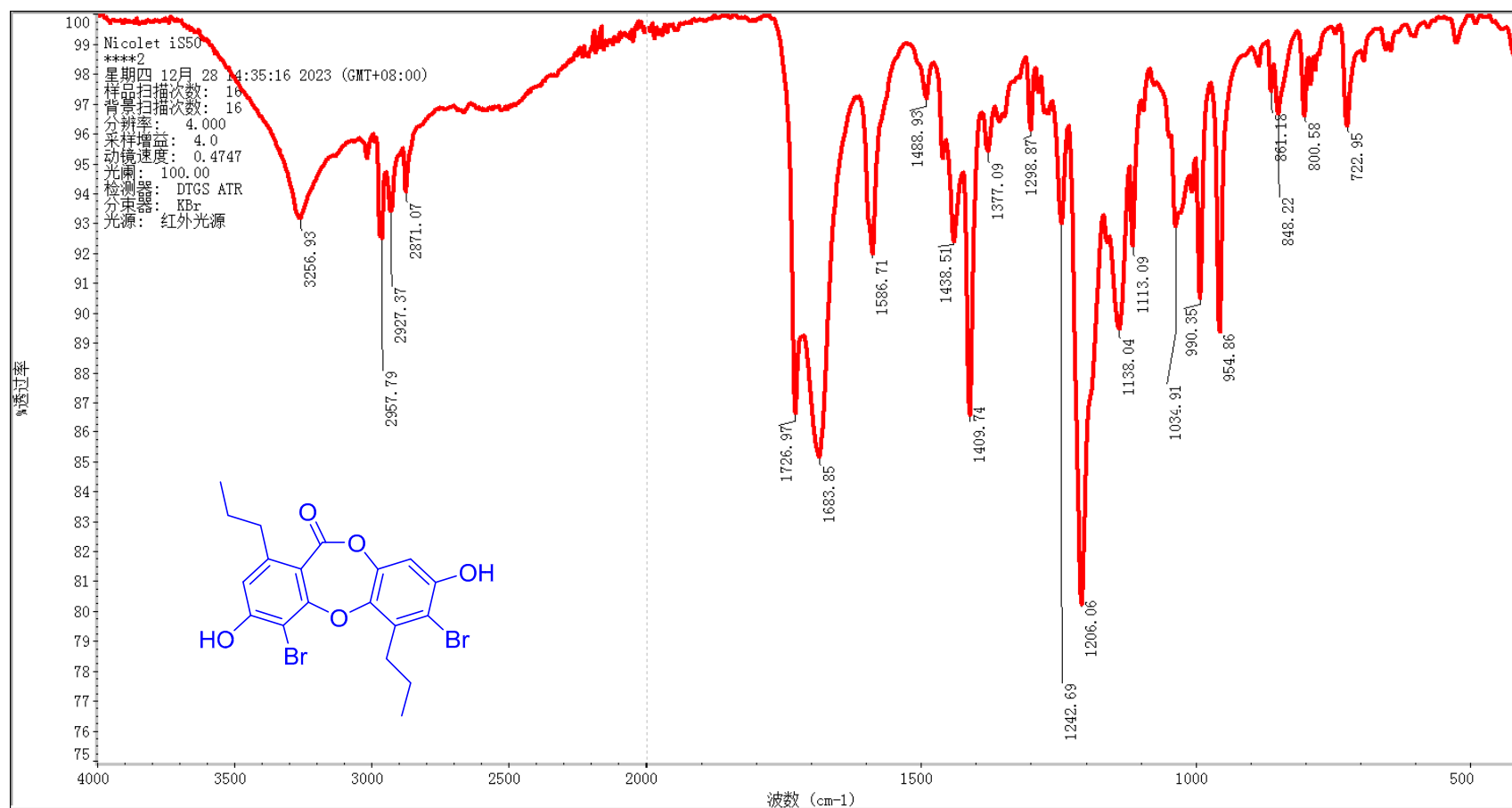


Figure S16. IR spectrum of **2**

Table S3. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 3

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.3, C		
2		160.6, C		
3		99.0, C		
4		159.7, C		
5	6.80, s	115.3, C		C-1, C-3, C-4, C-8
6		148.1, C		
7		161.8, C		
8	2.70, t (7.6)	35.5, CH ₂		C-1, C-5, C-6, C-9, C-10
9	1.49, m	24.6, CH ₂		C-6, C-8, C-10
10	0.83, t (7.2)	14.1, CH ₃		C-8, C-9
1'		142.7, C		
2'		142.9, C		
3'		99.5, C		
4'		153.0, C		
5'	6.69, s	113.3, CH		C-1', C-4', C-5', C-7'
6'		134.8, C		
7'	2.90, t (7.8)	32.7, CH ₂		C-1', C-5', C-6', C-8', C-9'
8'	1.47, m	24.2, CH ₂		C-6', C-7', C-9'
9'	0.95, t (7.2)	14.1, CH ₃		C-7', C-8'

I-8-2 500 MHz DMSO

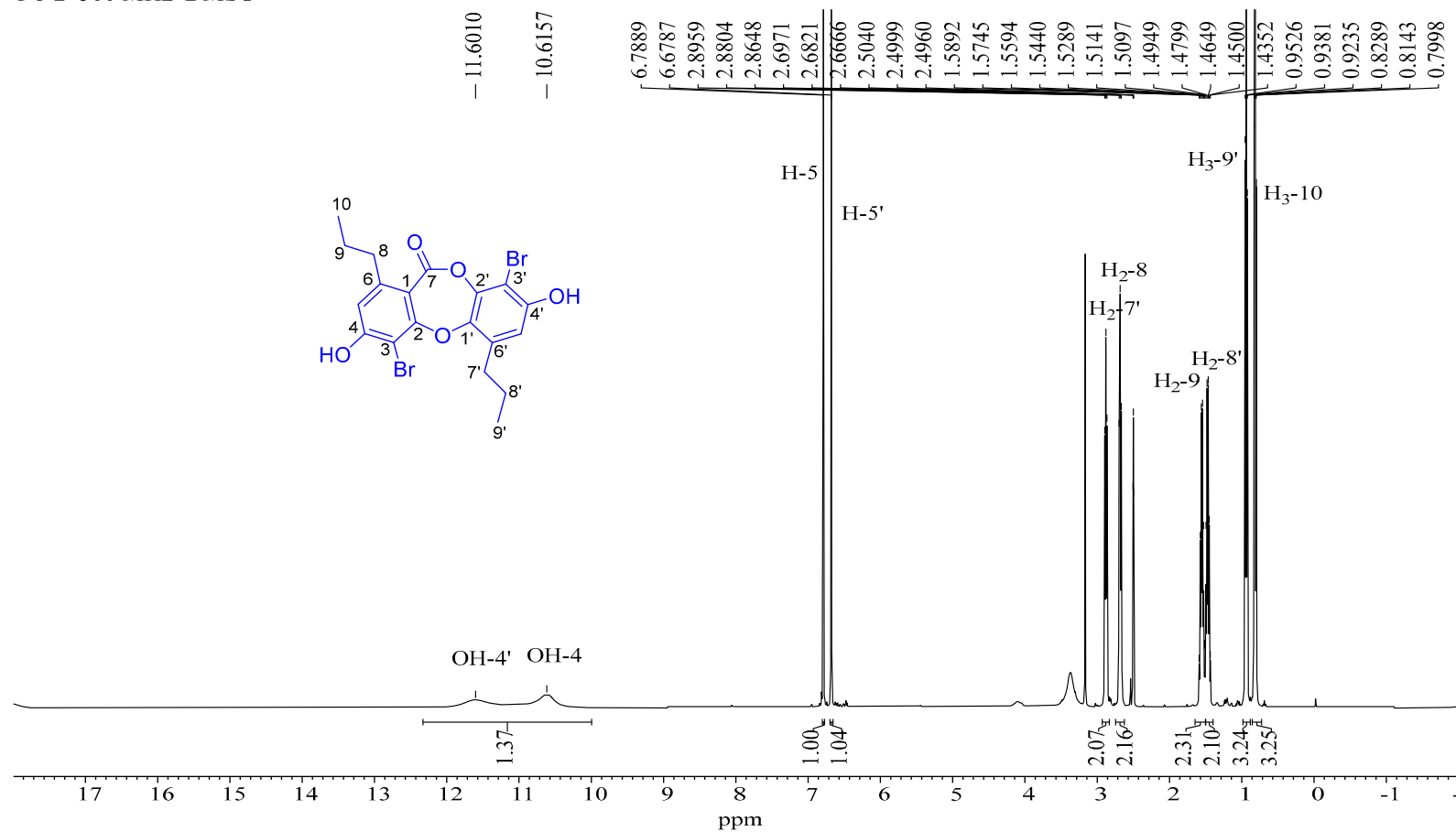


Figure S17. ¹H-NMR spectrum of **3** in DMSO-*d*₆ (500 MHz)

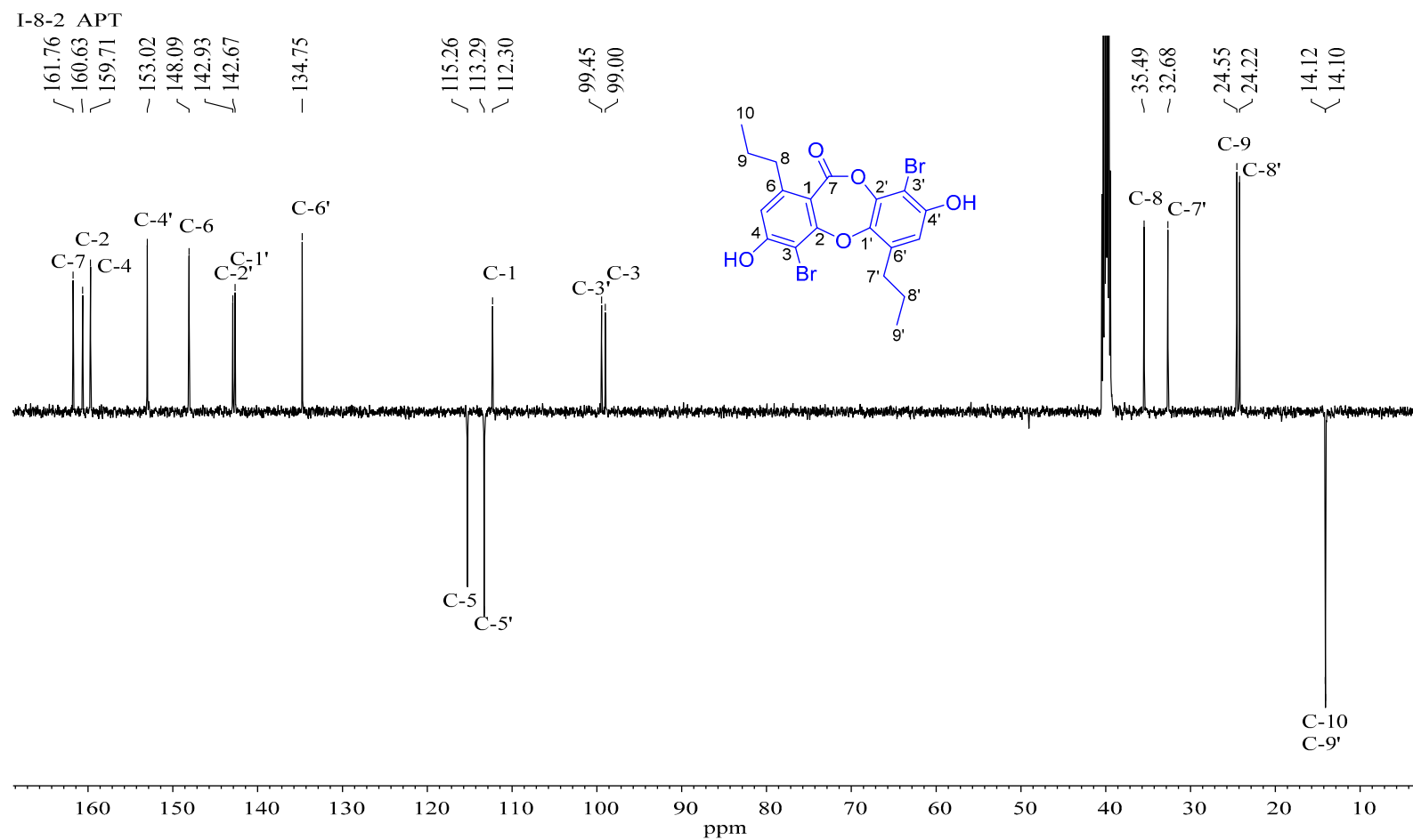


Figure S18. APT spectrum of **3** in DMSO-*d*₆ (125 MHz)

I-8-2 HSQC

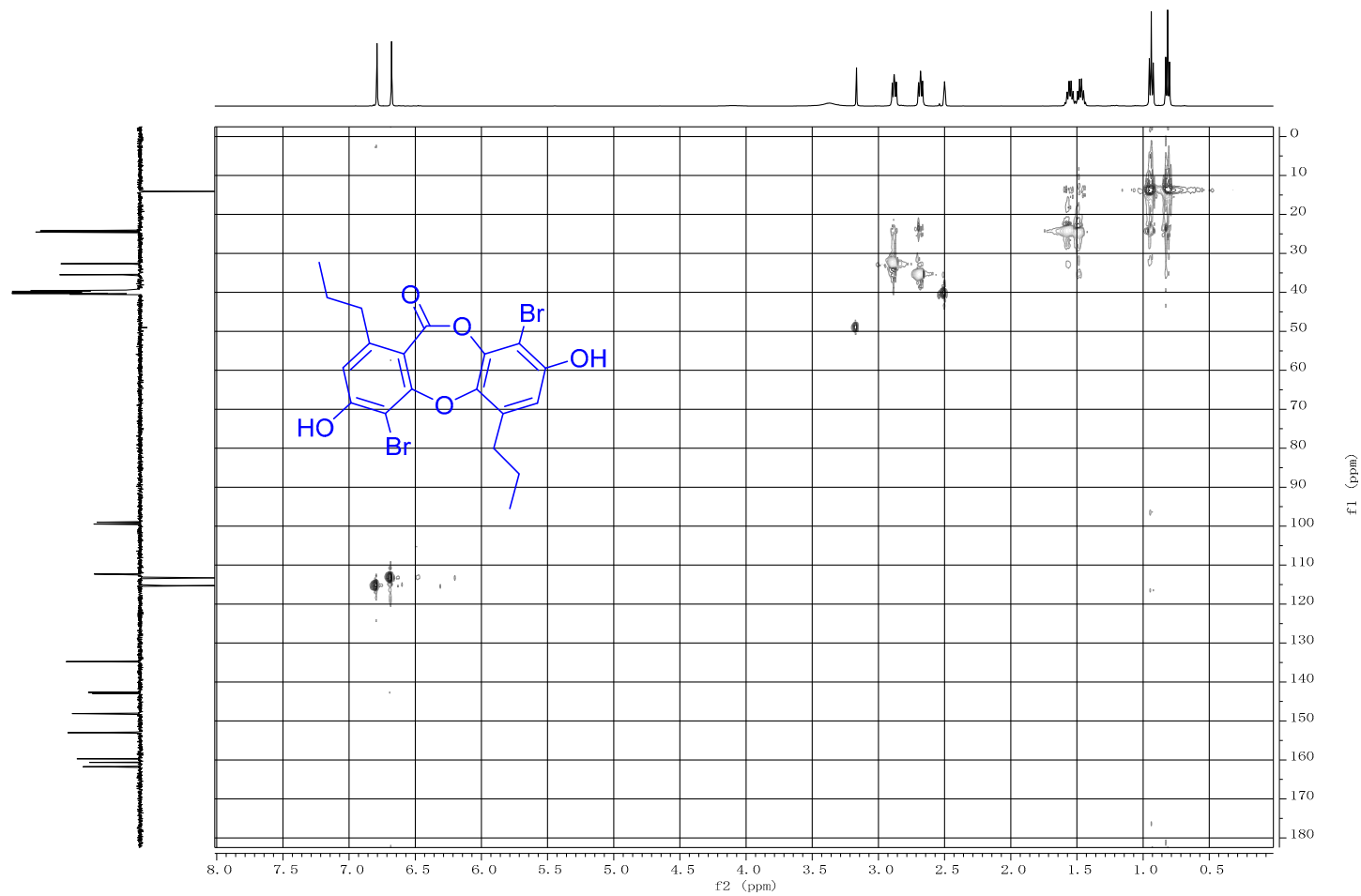


Figure S19. HSQC spectrum of **3** in DMSO-*d*₆

I-8-2 COSY

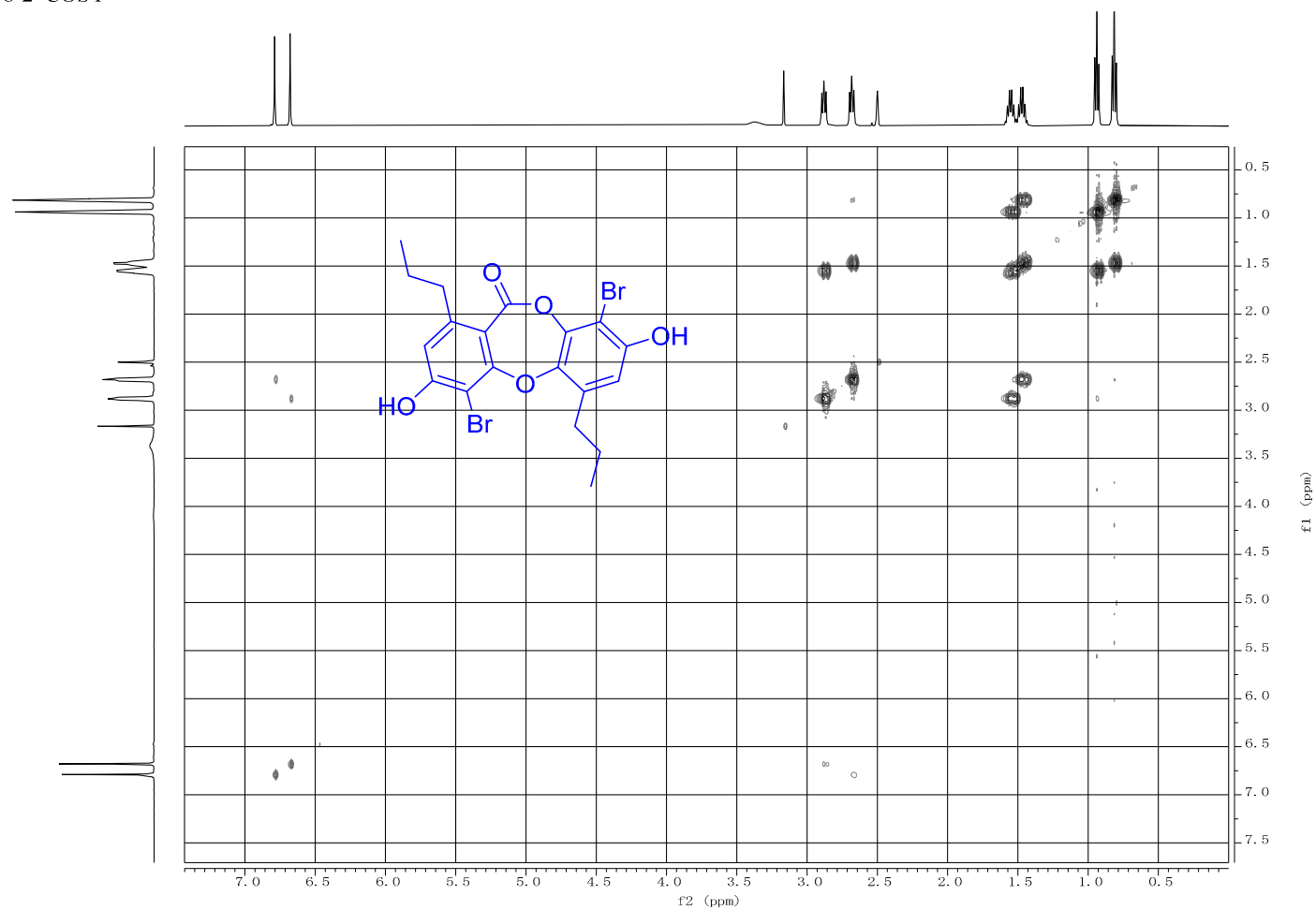


Figure S20. ^1H - ^1H COSY spectrum of **3** in $\text{DMSO-}d_6$

I-8-2 HMBC

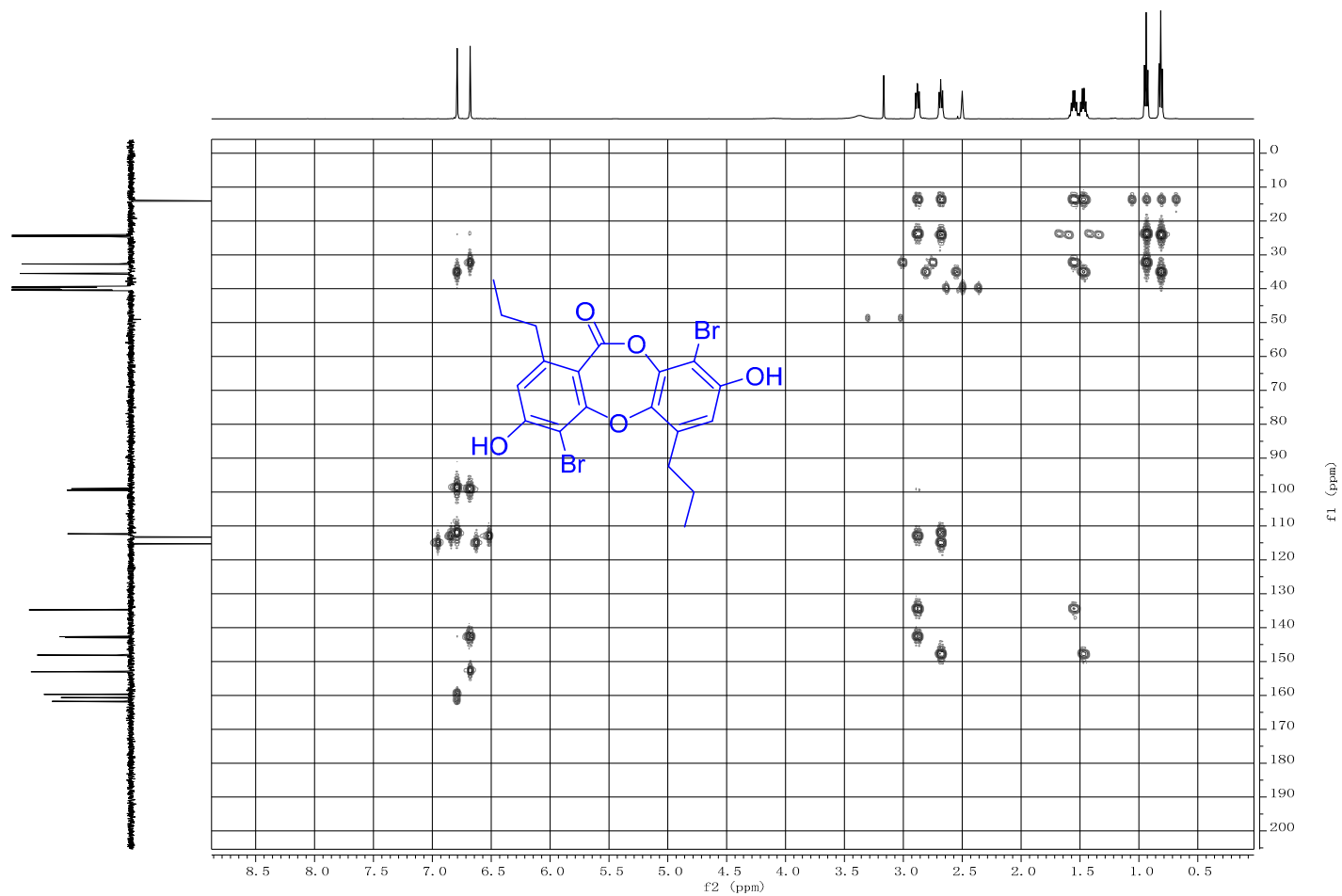
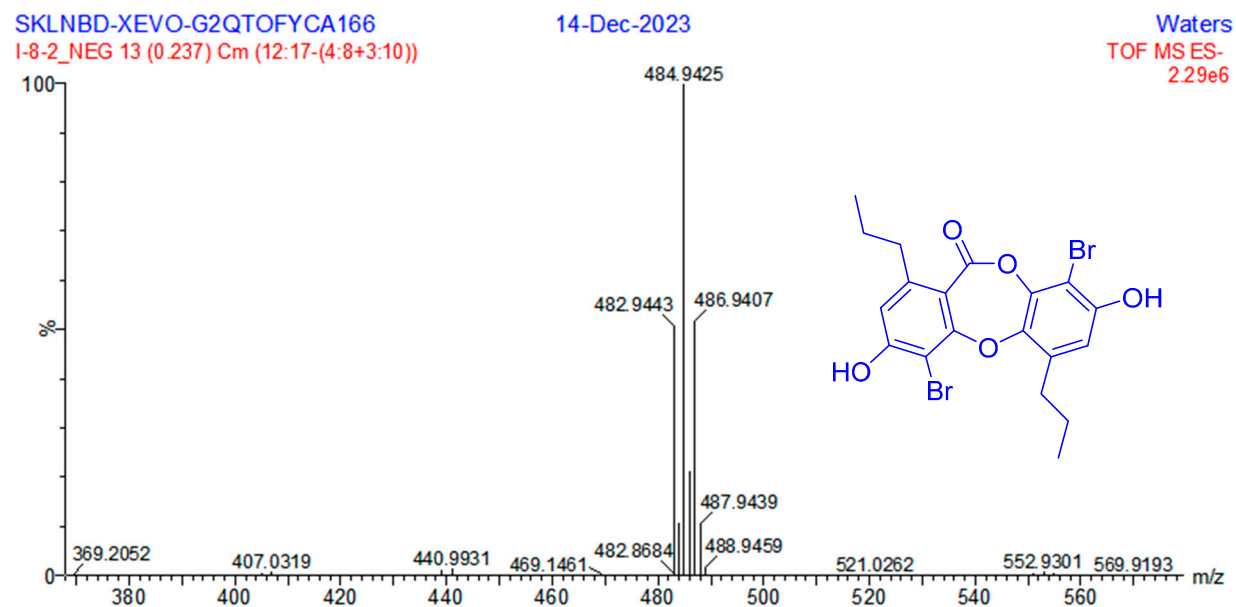


Figure S21. HMBC spectrum of **3** in DMSO-*d*₆



Maximum:		3.0	5.0	120.0				
Mass	<u>Calc. Mass</u>	<u>mDa</u>	PPM	DBE	i-FIT	Norm	<u>Conf(%)</u>	Formula
482.9443	482.9443	0.0	0.0	10.5	647.6	0.000	100.00	C ₁₉ H ₁₇ O ₅ Br ₂
	482.9446	-0.3	-0.6	30.5	669.0	21.462	0.00	C ₃₂ H ₄ O Br

Figure S22. HRESIMS spectrum of **3**

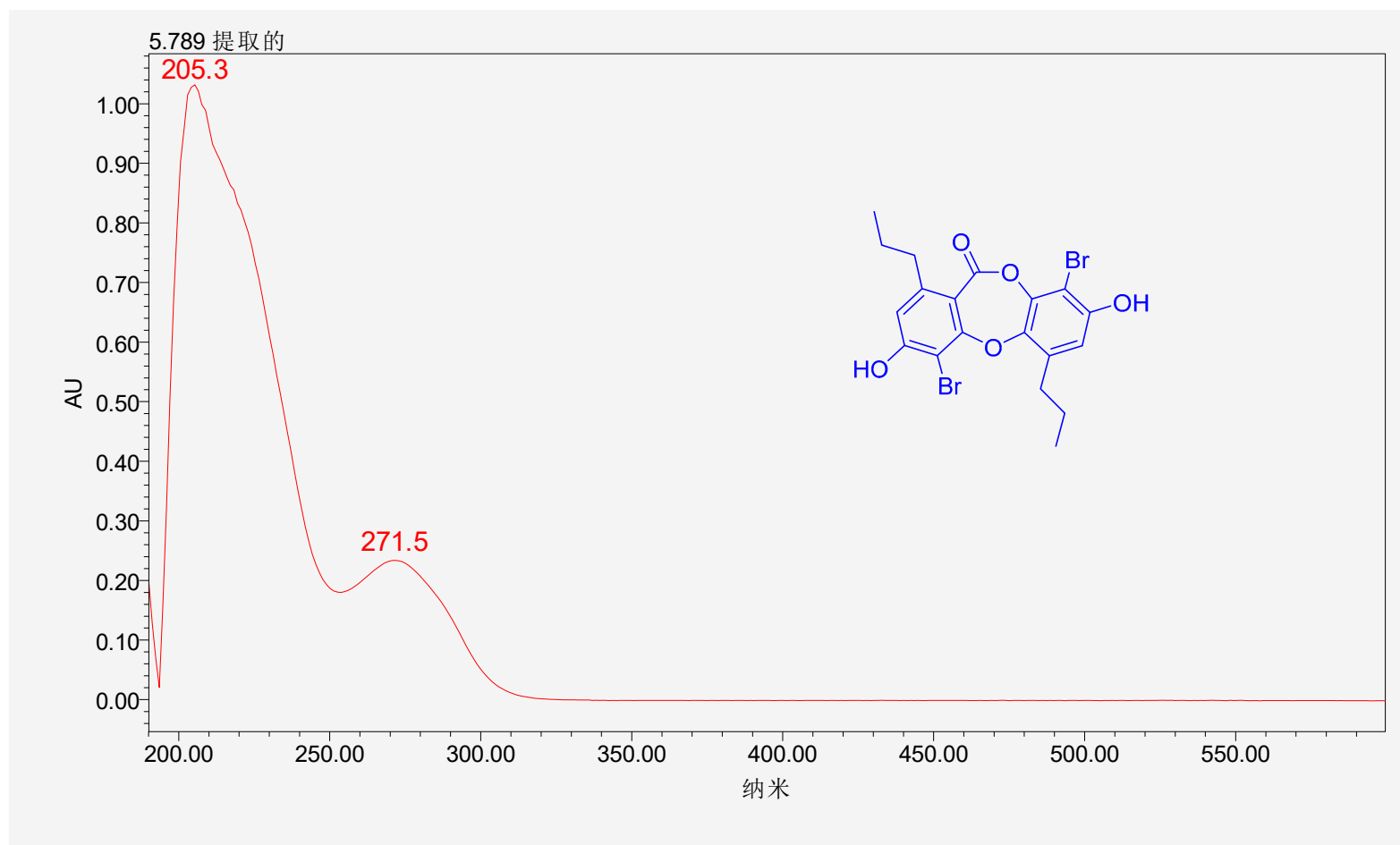


Figure S23. UV spectrum of **3**

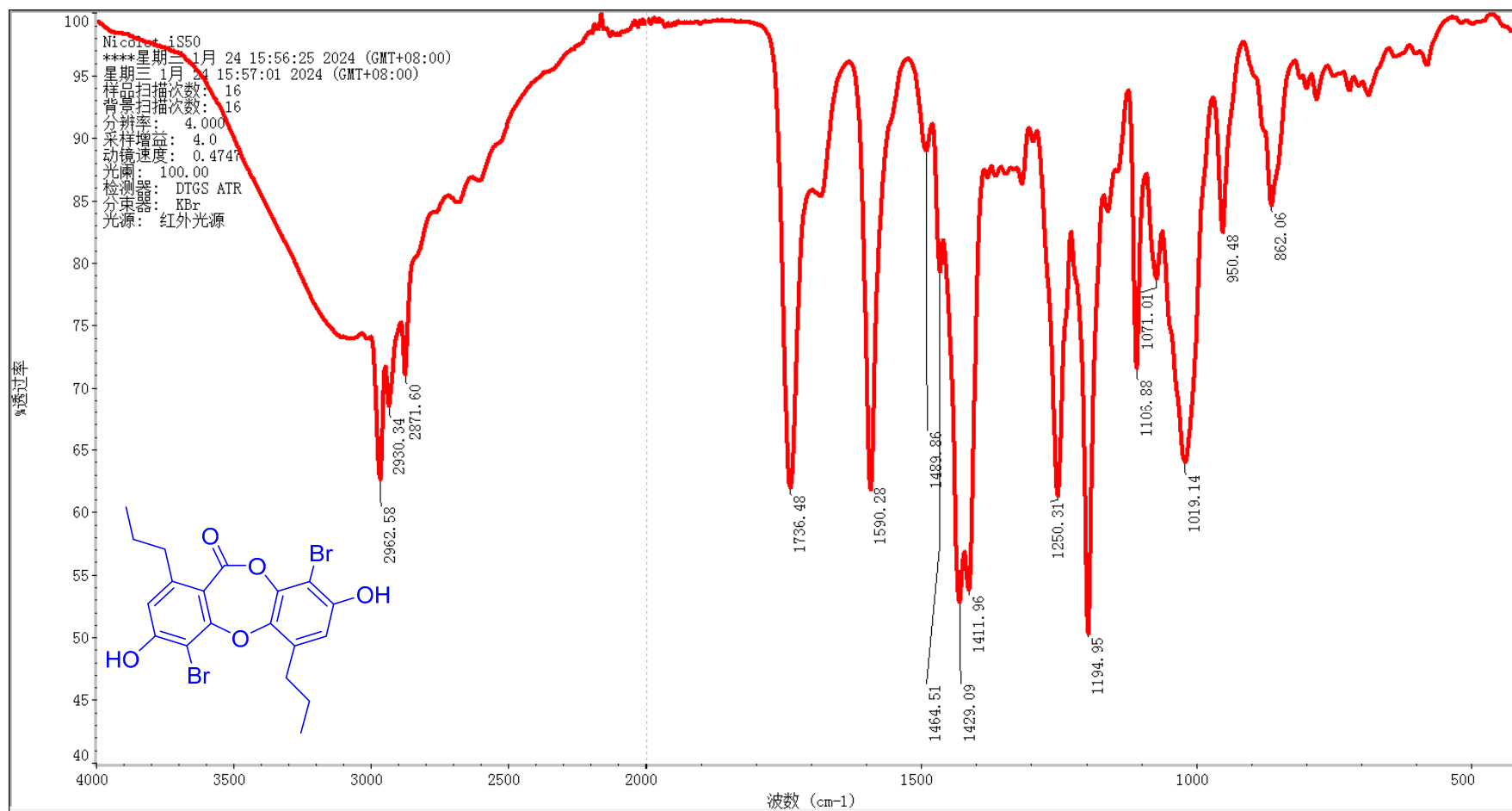


Figure S24. IR spectrum of **3**

Table S4. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 4

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.9, C		
2		161.7, C		
3	6.71, s	105.2, CH		C-1, C-2 C-4, C-5
4		161.7, C		
5		110.3, C		
6		146.9, C		
7		161.9, C		
8	2.86, t (7.7)	35.7, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.54, m	22.9, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.86, t (7.3)	14.2, CH ₃	H ₂ -9	C-8, C-9
1'		142.0, C		
2'		142.1, C		
3'		102.2, C		
4'		151.0, C		
5'		111.1, C		
6'		134.0, C		
7'	2.81, t (8.1)	32.6, CH ₂	H ₂ -8'	C-1', C-5', C-6', C-8', C-9'
8'	1.51, m	22.5, CH ₂	H ₂ -7', H ₃ -9'	C-6', C-7', C-9'
9'	0.98, t (7.3)	14.9, CH ₃	H ₂ -8'	C-7', C-8'

N-6-5-Y 500 MHz DMSO

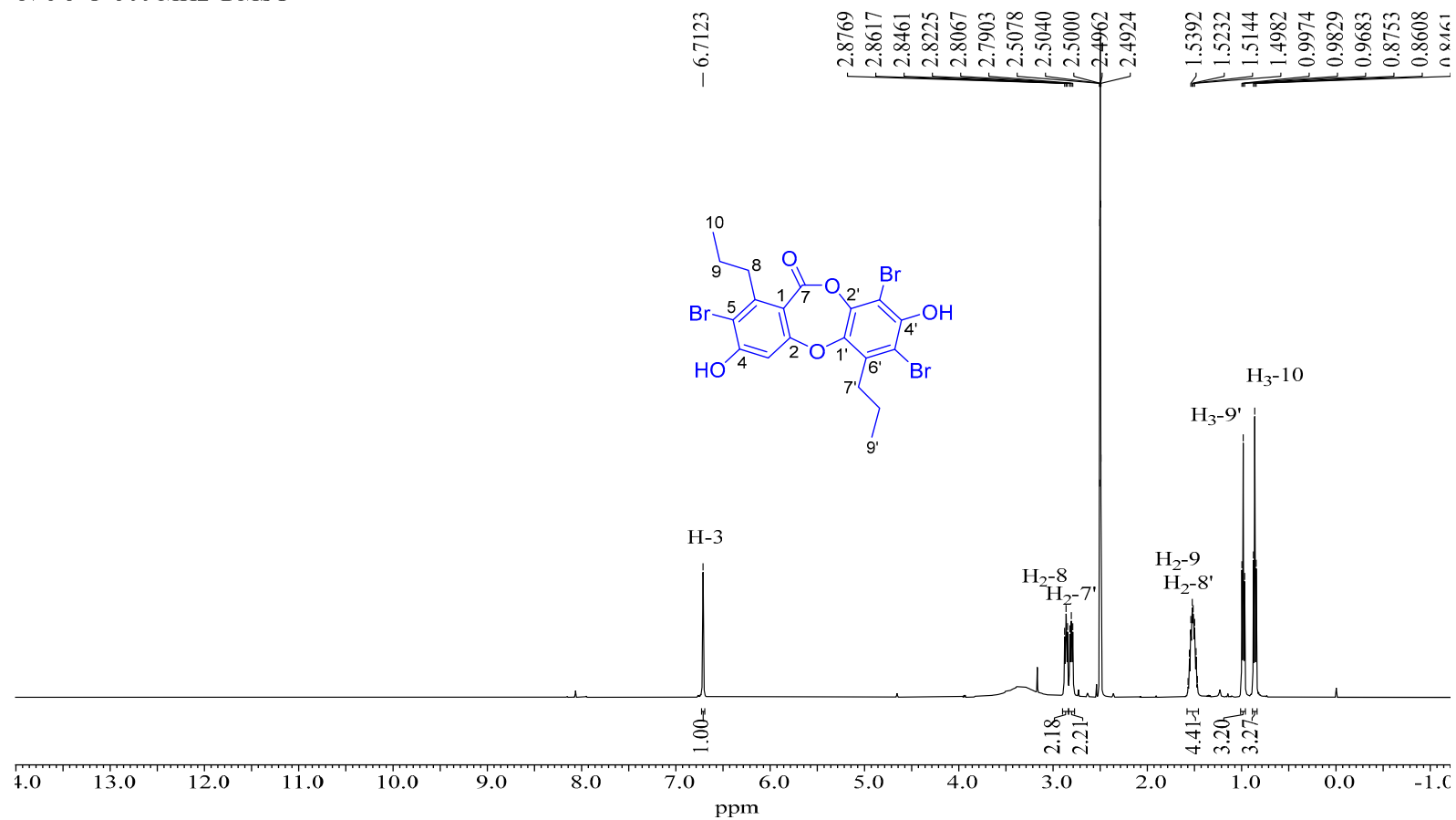


Figure S25. ¹H-NMR spectrum of **4** in DMSO-*d*₆ (500 MHz)

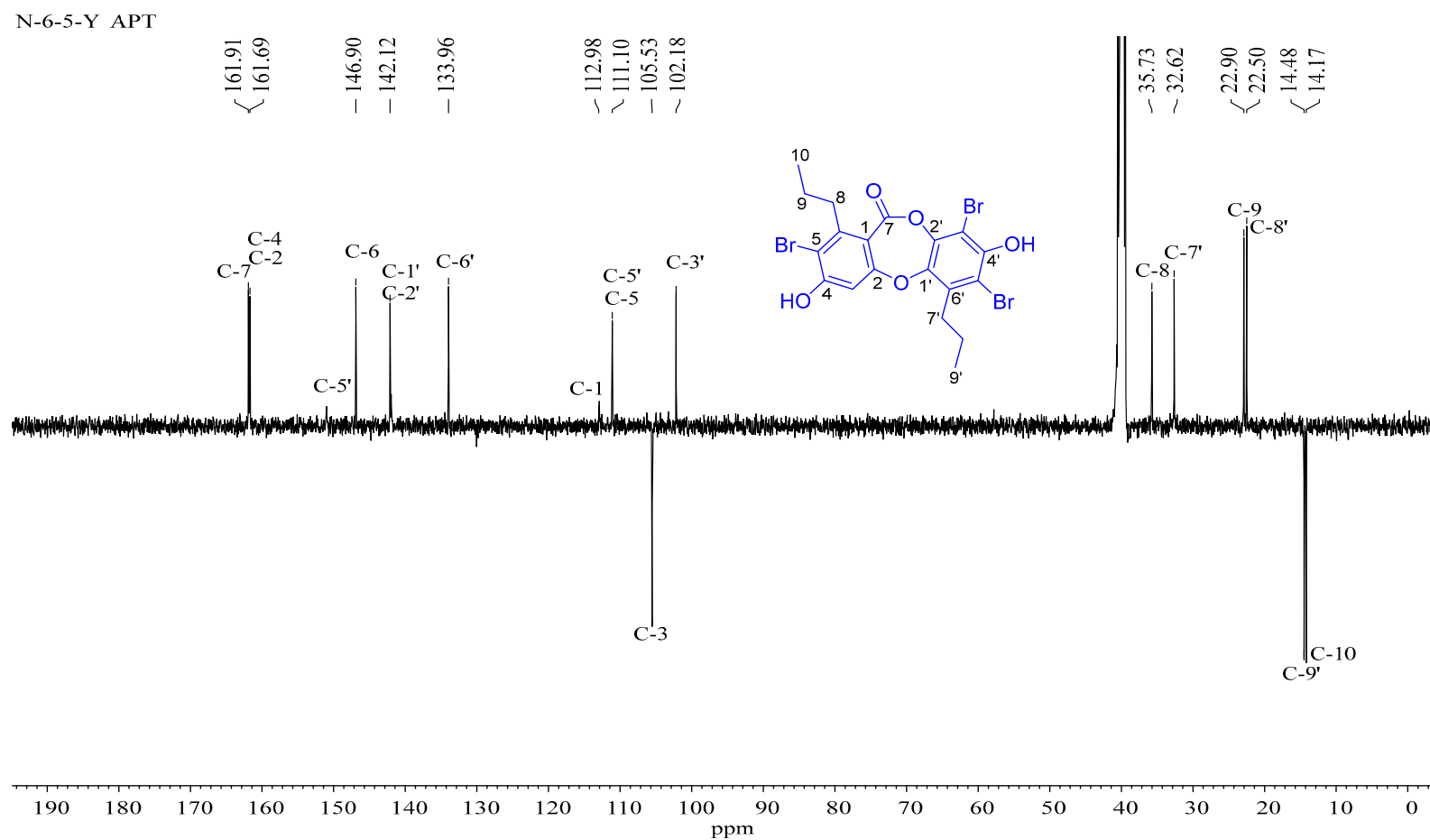


Figure S26. APT spectrum of **4** in DMSO-*d*₆ (125 MHz)

N-6-5-Y HSQC

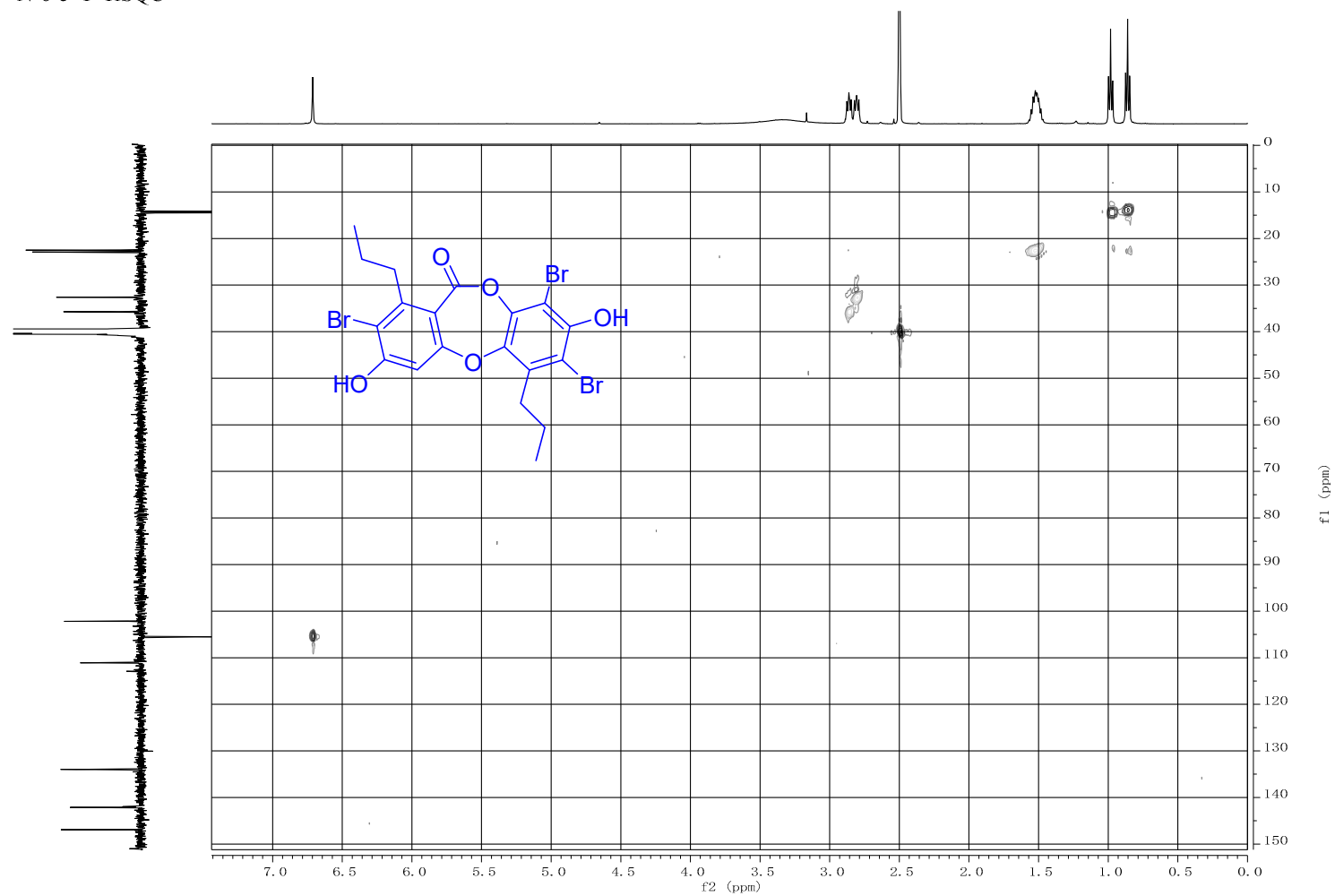


Figure S27. HSQC spectrum of **4** in DMSO-*d*₆

N-6-5-Y COSY

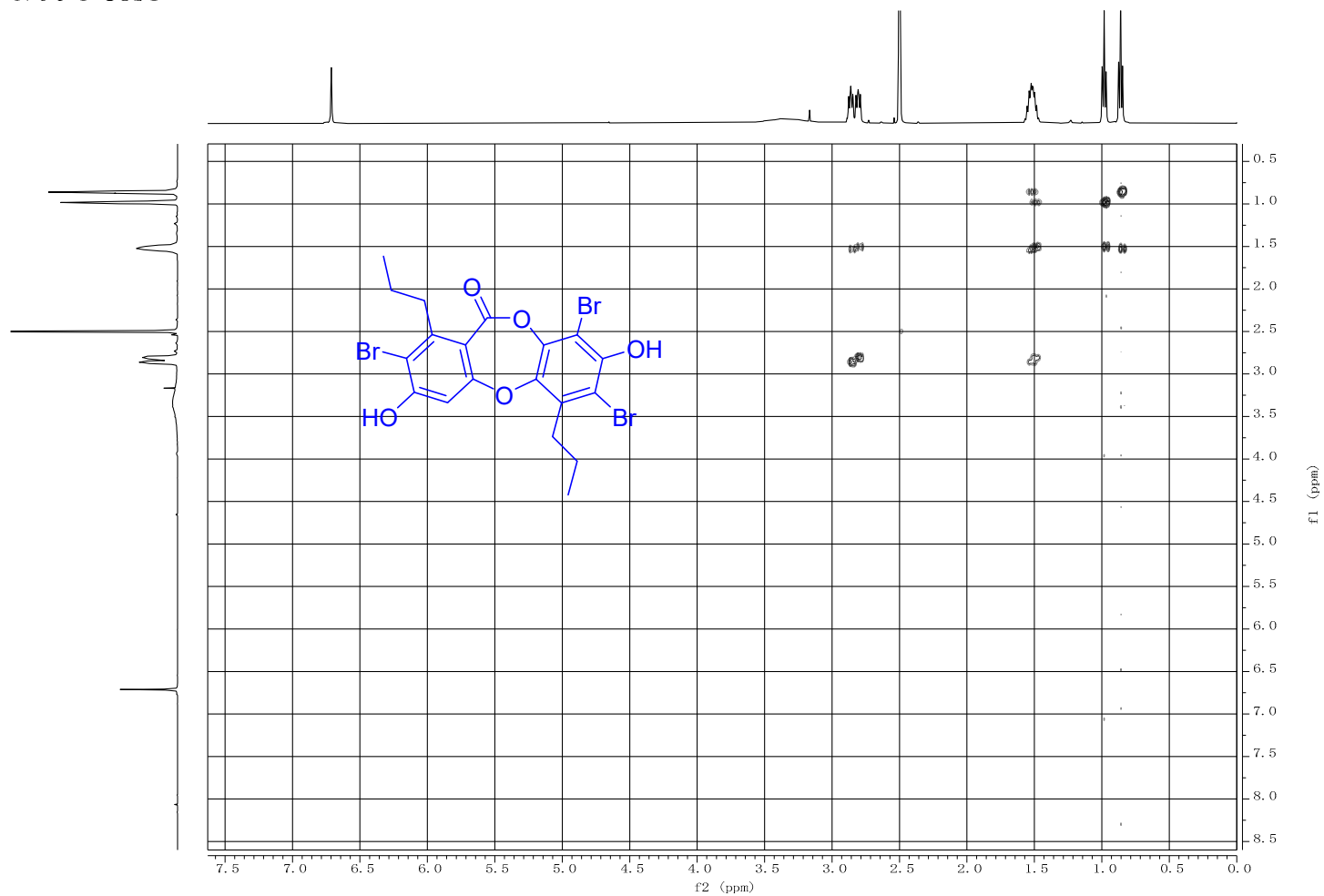


Figure S28. ^1H - ^1H COSY spectrum of **4** in $\text{DMSO}-d_6$

N-6-5-Y HMBC

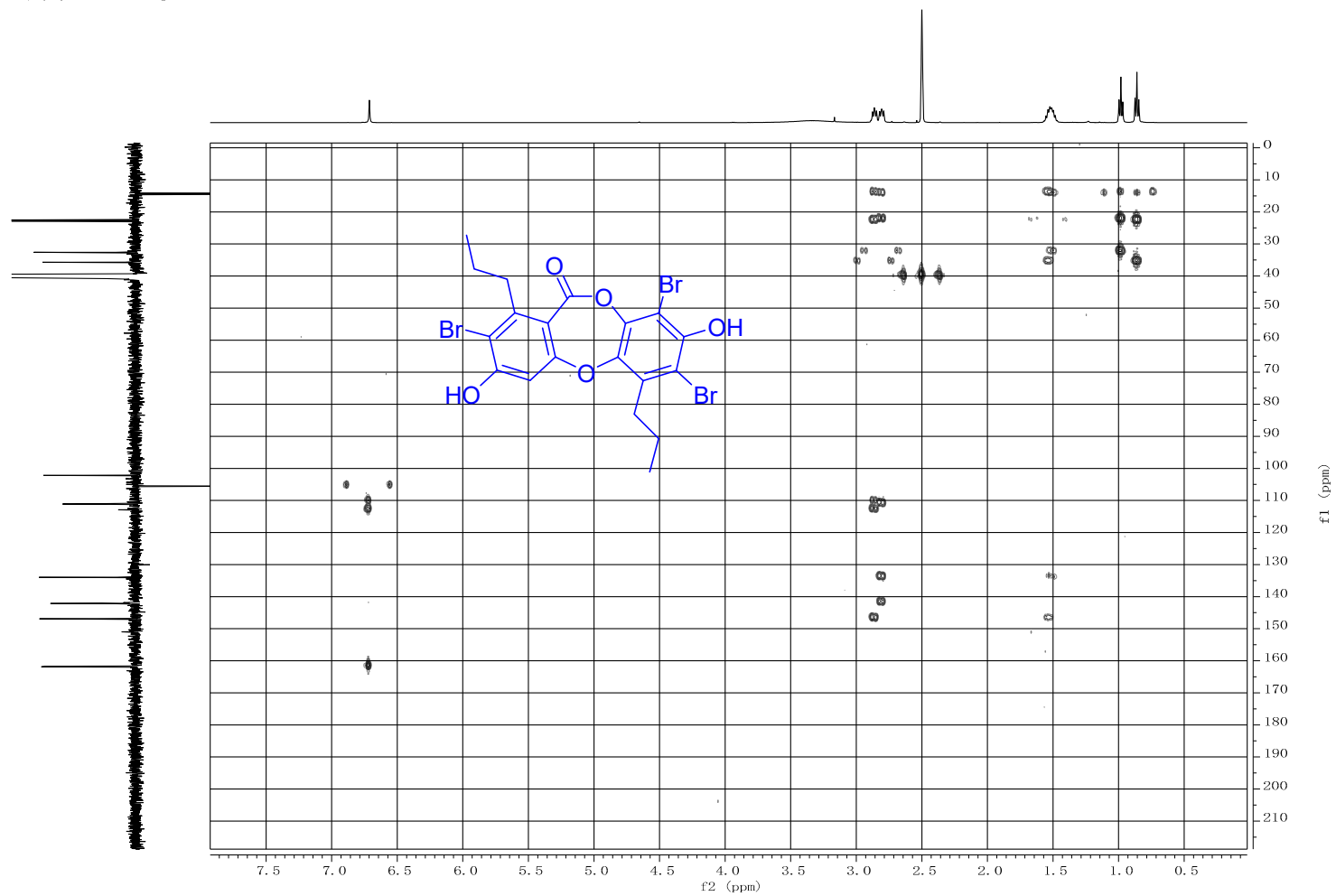
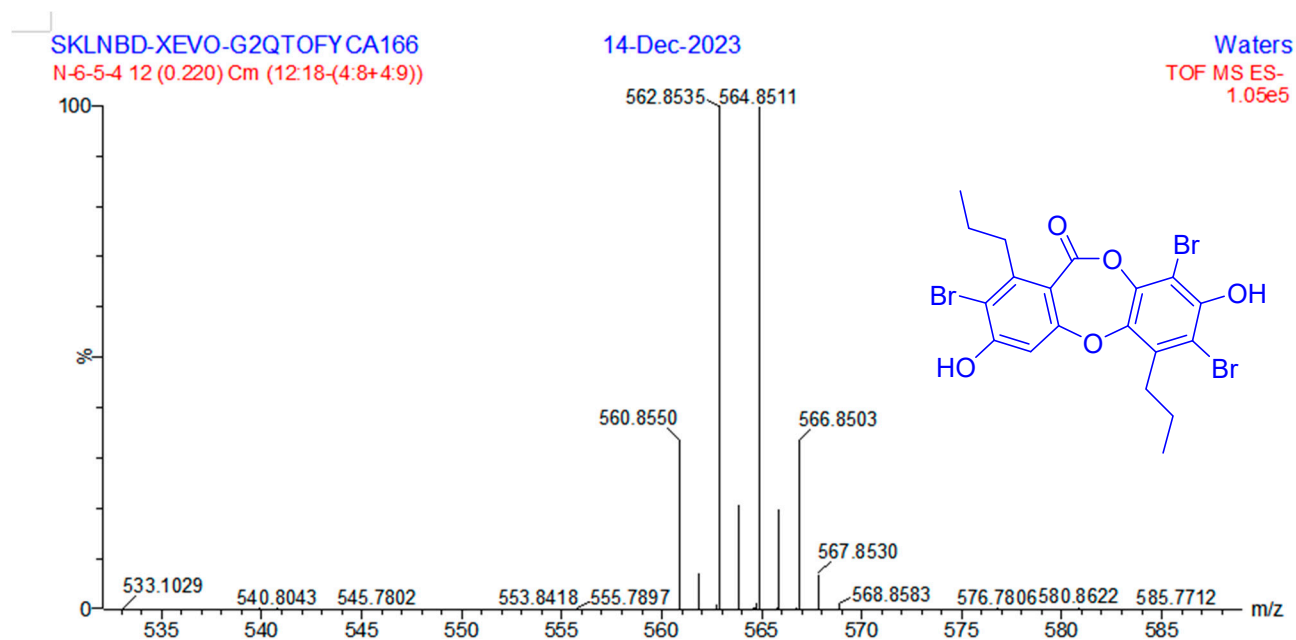


Figure S29. HMBC spectrum of **4** in DMSO-*d*₆



Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
560.8550	560.8551	-0.1	-0.2	30.5	253.8	14.560	0.00	C ₃₂ H ₃ O Br ₂
	560.8548	0.2	0.4	10.5	239.2	0.000	100.00	C ₁₉ H ₁₆ O ₅ Br ₃
	560.8574	-2.4	-4.3	-0.5	254.7	15.479	0.00	C ₇ H ₁₅ O ₁₉ Br ₂
	560.8577	-2.7	-4.8	19.5	258.7	19.441	0.00	C ₂₀ H ₂ O ₁₅ Br

Figure S30. HRESIMS spectrum of **4**

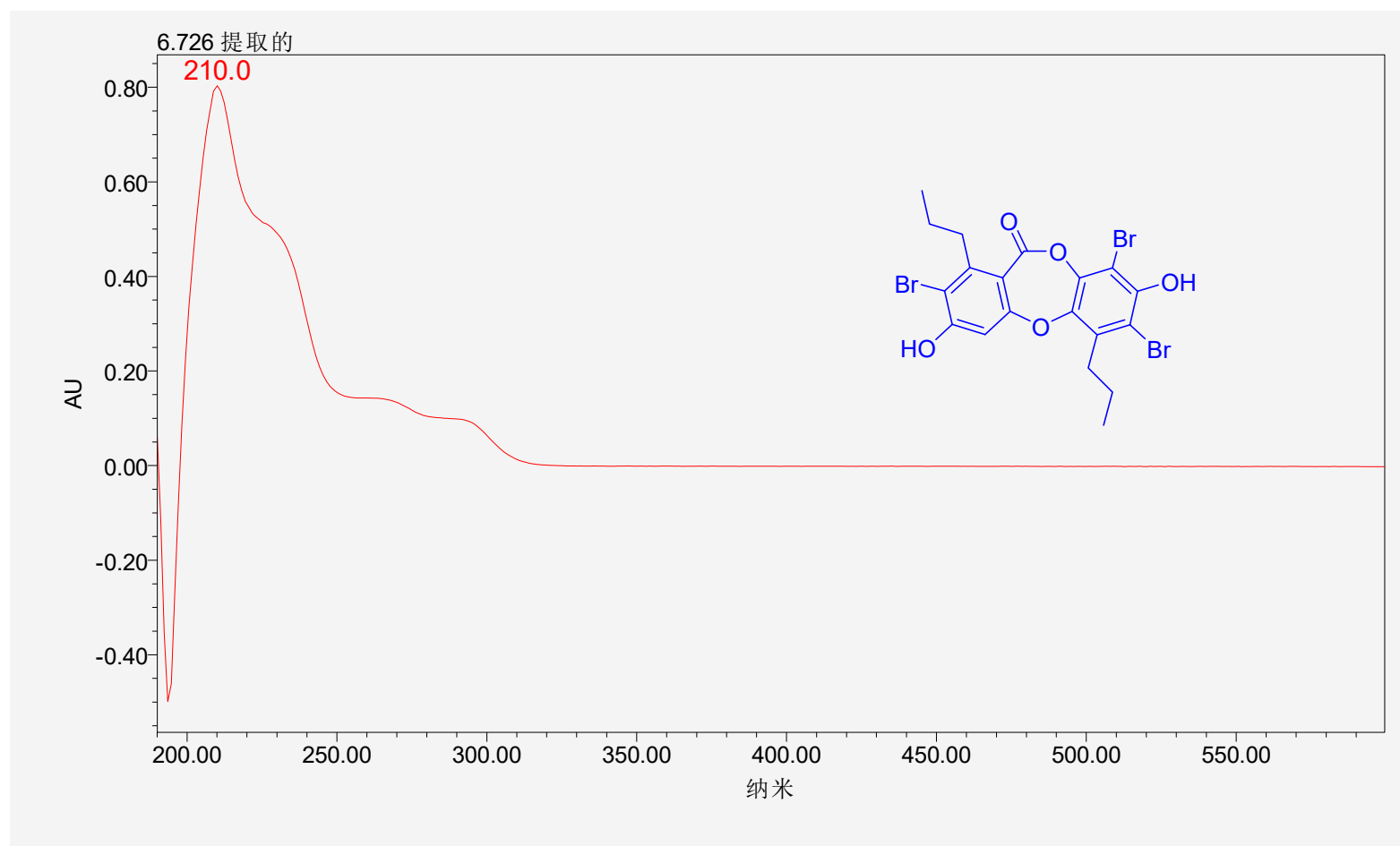


Figure S31. UV spectrum of **4**

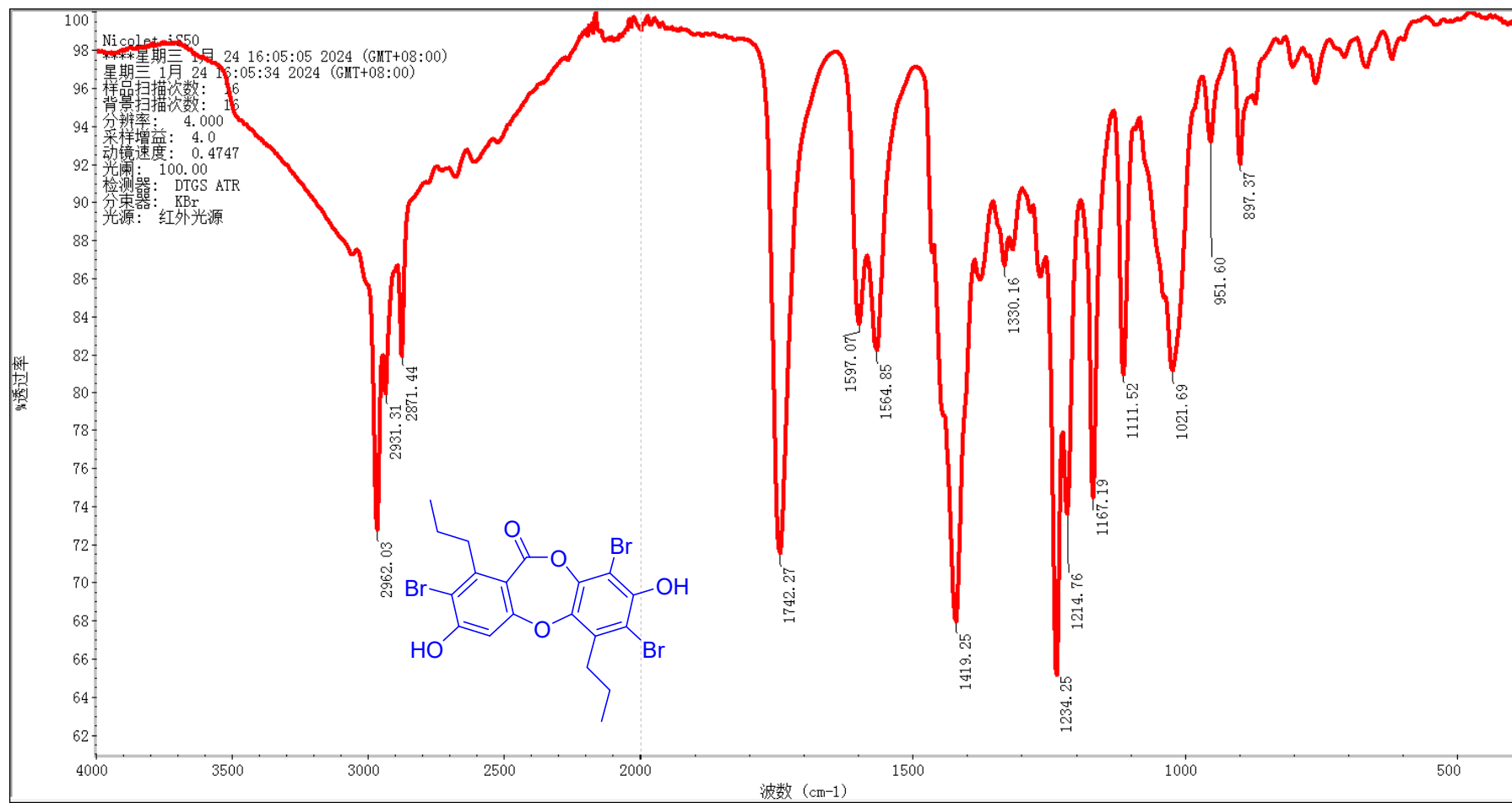


Figure S32. IR spectrum of 4

Table S5. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 5

No.	δ_{H}	δ_{C}	COSY	HMBC
1		113.6, C		
2		159.3, C		
3		101.3, C		
4		159.3, C		
5		112.8, C		
6		145.8, C		
7		162.0, C		
8	3.11, t (8.0)	36.9, CH ₂		C-1, C-5, C-6, C-9, C-10
9	1.59, m	22.9, CH ₂		C-6, C-8, C-10
10	0.88, t (7.3)	14.3, CH ₃		C-8, C-9
1'		142.0, C		
2'		143.4, C		
3'	6.80, s	105.6, C		C-1, C-2, C-4, C-5
4'		153.0, C		
5'		108.9, C		
6'		135.9, C		
7'	2.76, t (7.8)	33.0, CH ₂		C-1', C-5', C-6', C-8', C-9'
8'	1.48, m	23.1, CH ₂		C-6', C-7', C-9'
9'	1.01, t (7.3)	14.4, CH ₃		C-7', C-8'

N-6-6 500 MHz DMSO

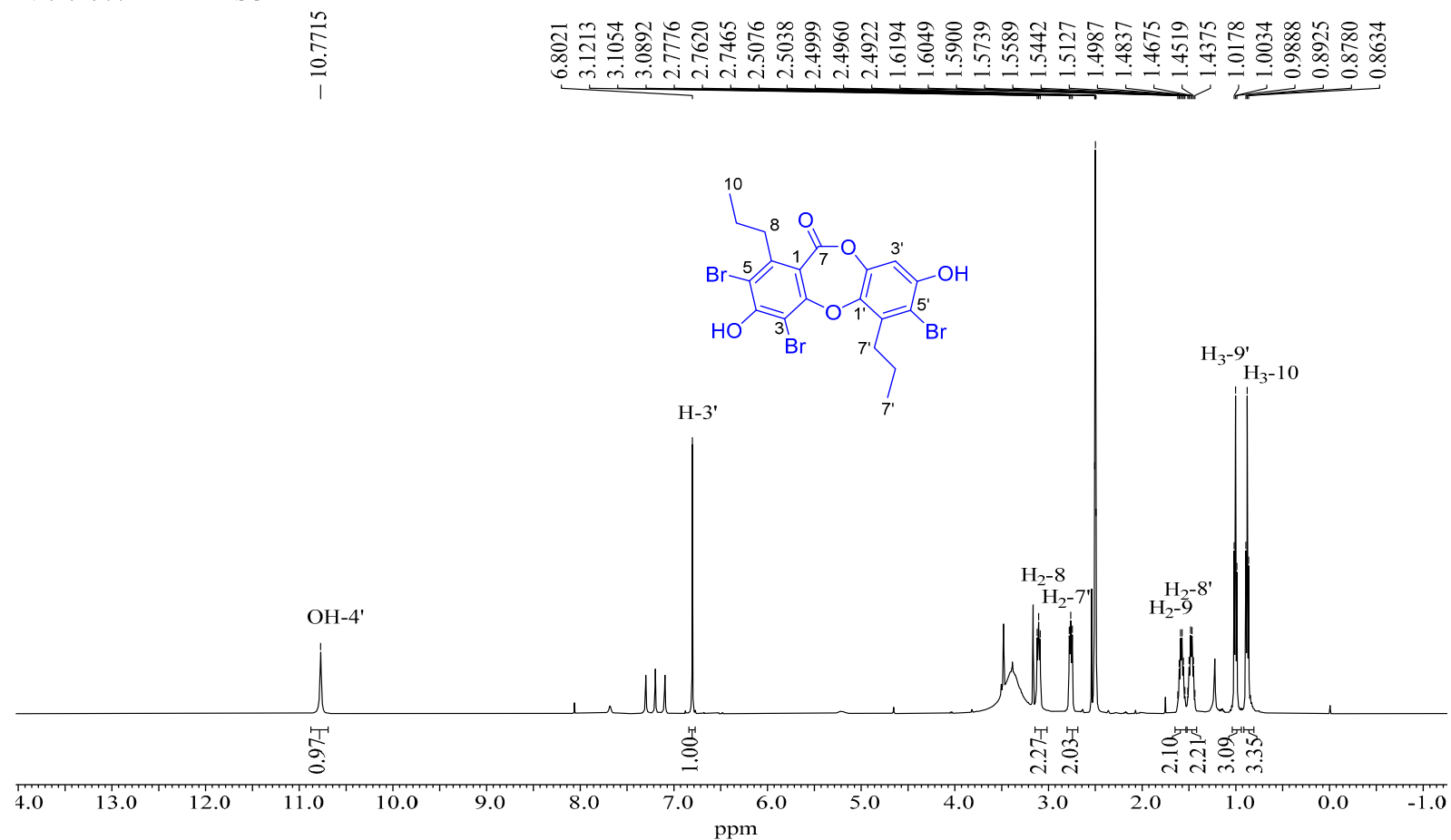


Figure S33. ¹H-NMR spectrum of **5** in DMSO-*d*₆ (500 MHz)

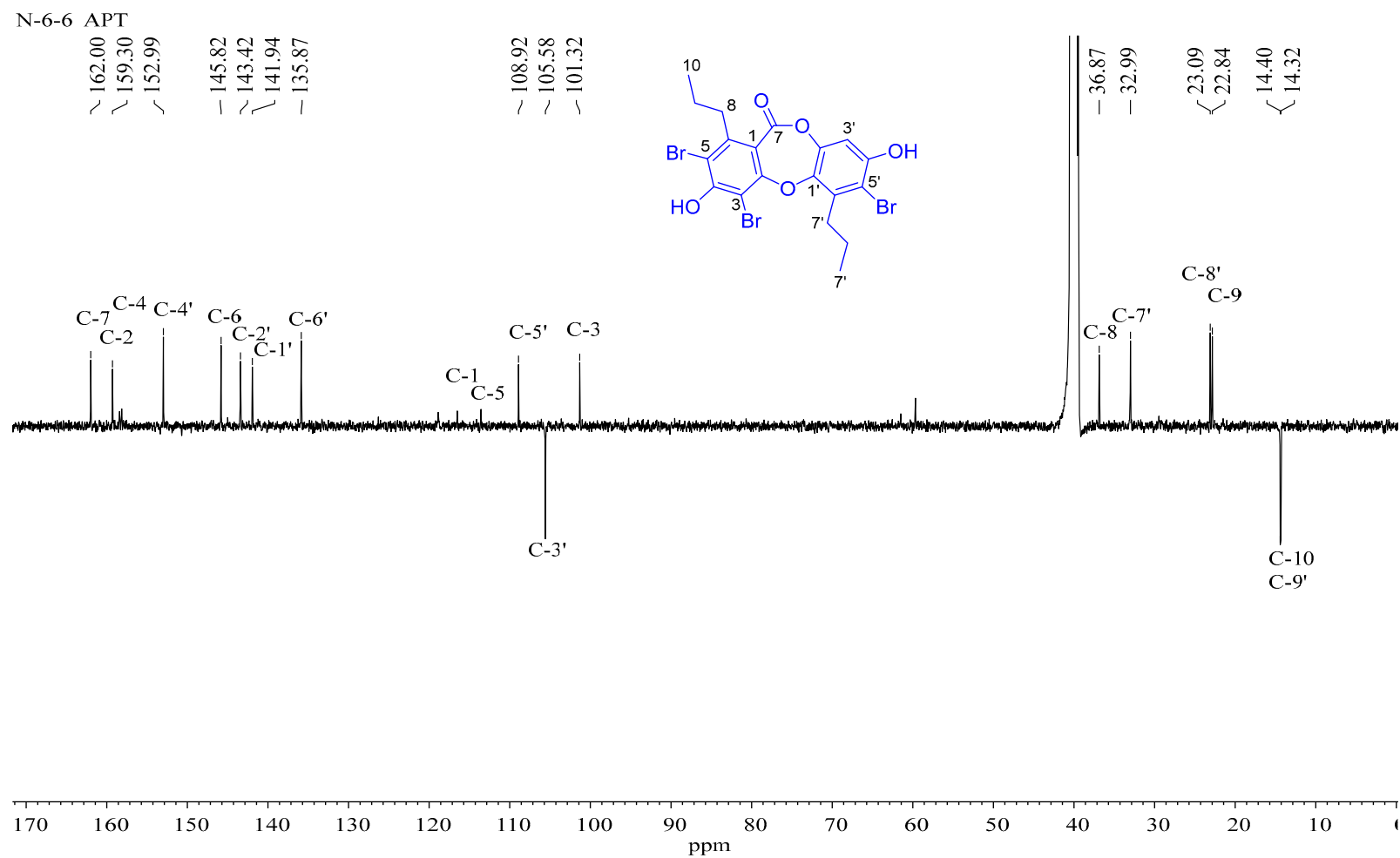


Figure S34. APT spectrum of **5** in DMSO-*d*₆ (125 MHz)

N-6-6 HSQC

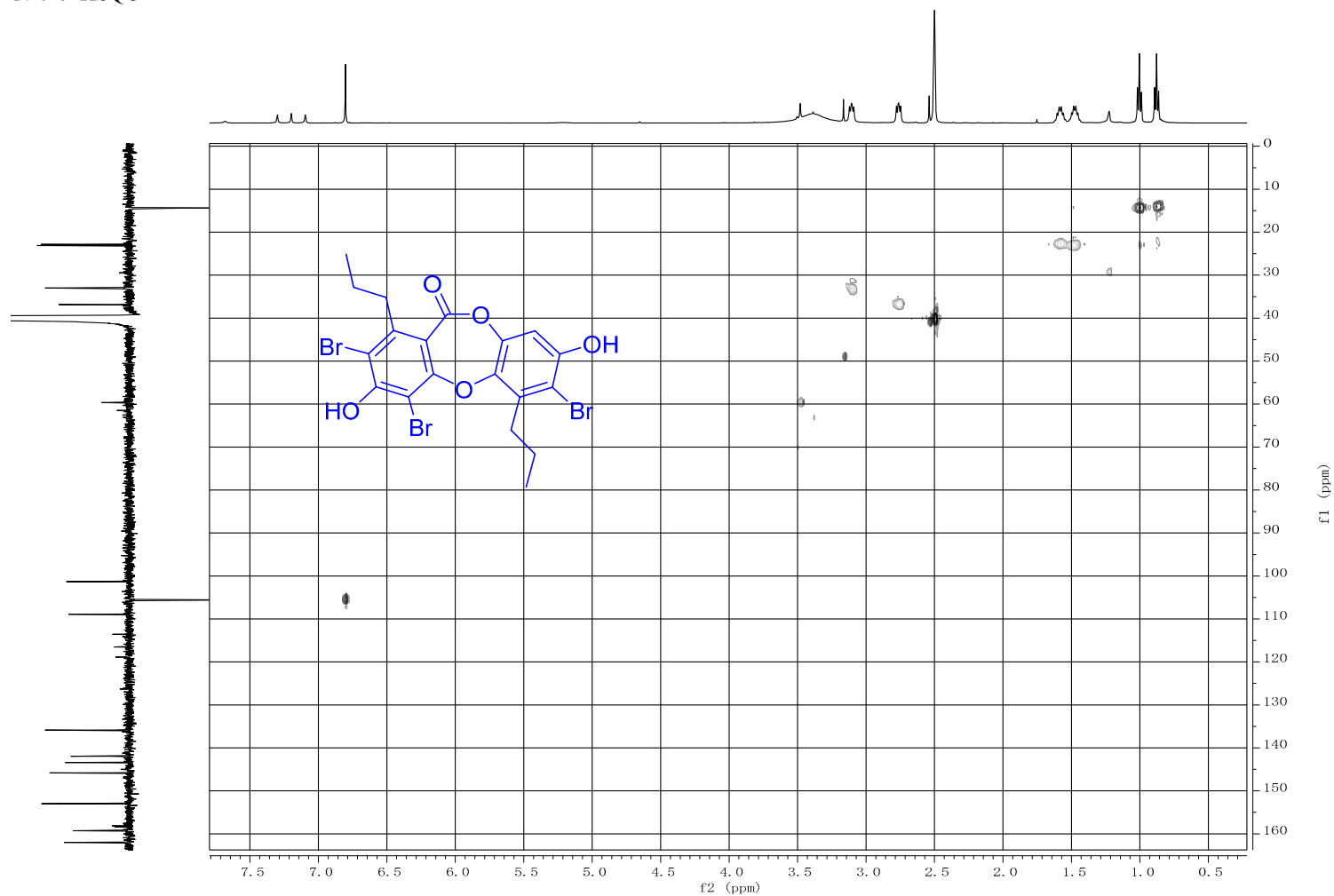


Figure S35. HSQC spectrum of **5** in DMSO-*d*₆

N-6-6 COSY

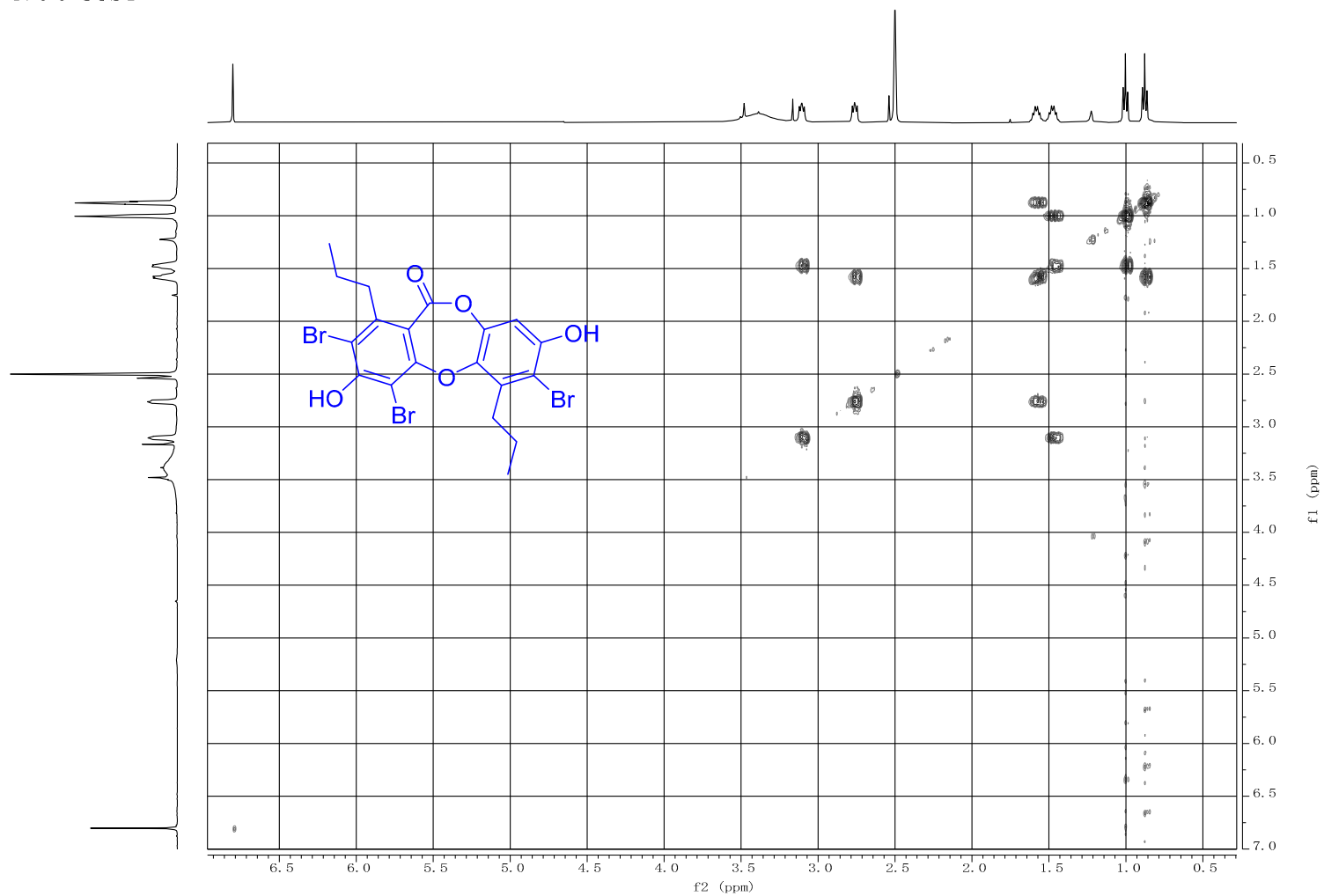


Figure S36. ^1H - ^1H COSY spectrum of **5** in $\text{DMSO}-d_6$

N-6-6 HMBC

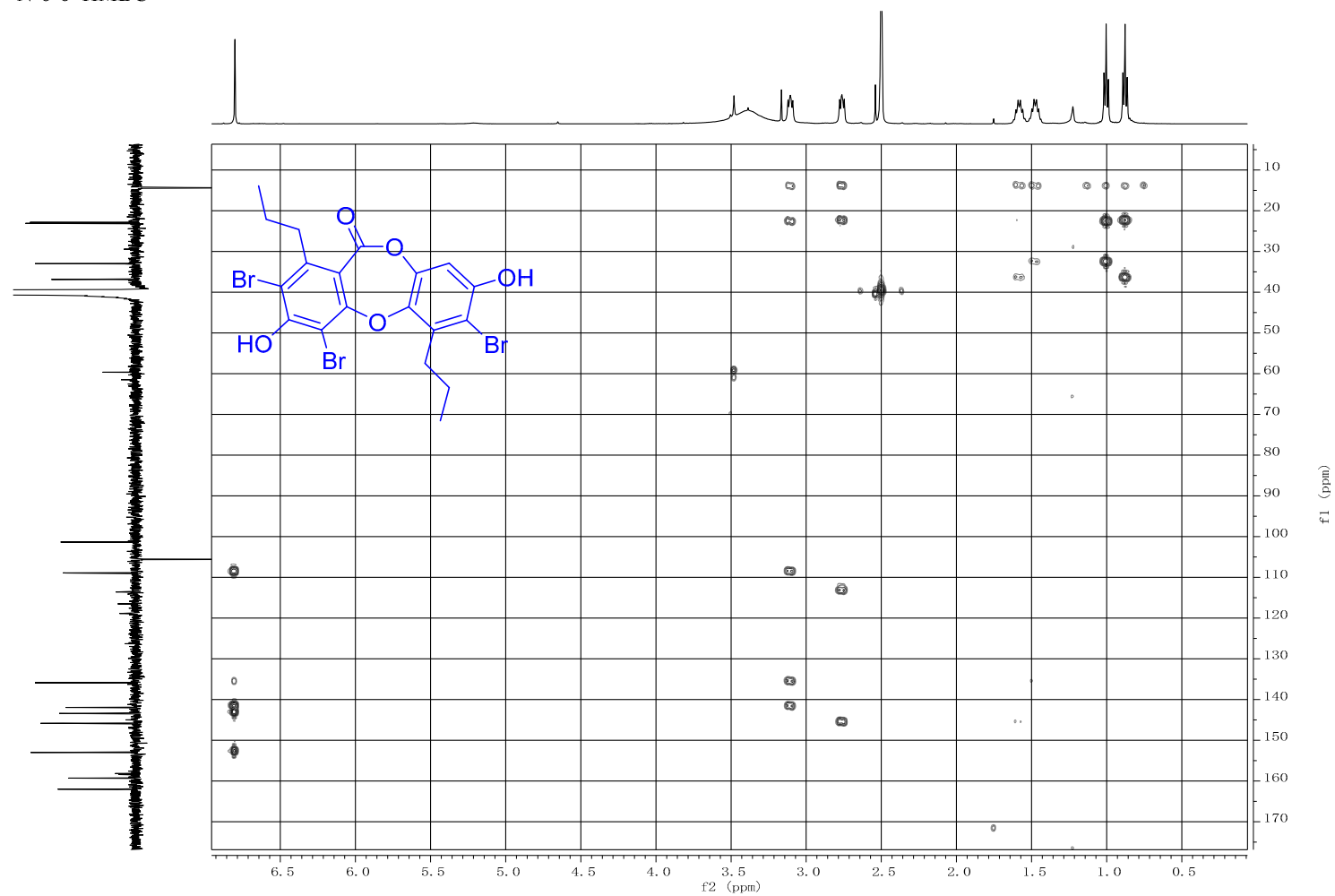


Figure S37. HMBC spectrum of **5** in $\text{DMSO-}d_6$

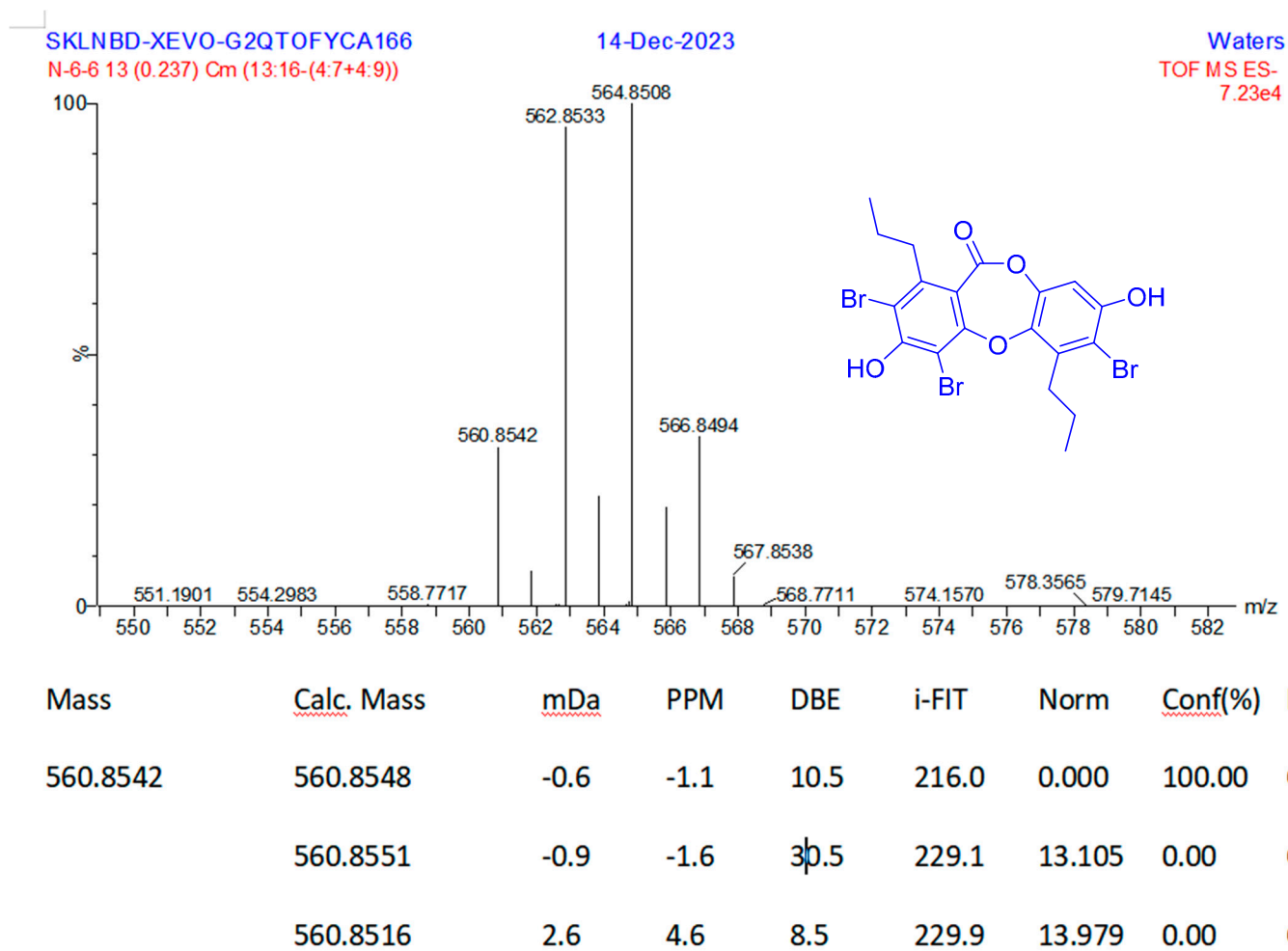


Figure S38. HRESIMS spectrum of **5**

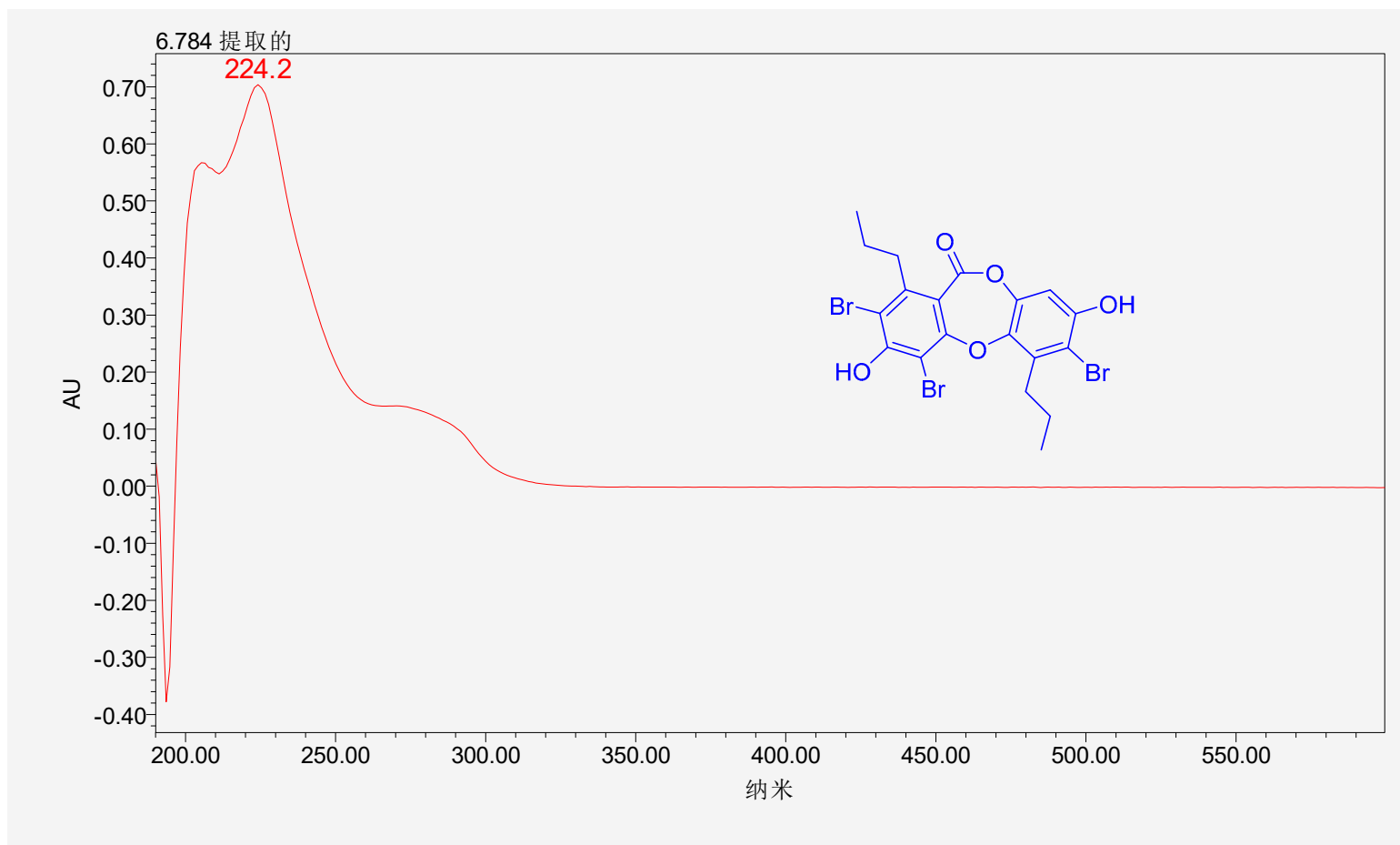


Figure S39. UV spectrum of **5**

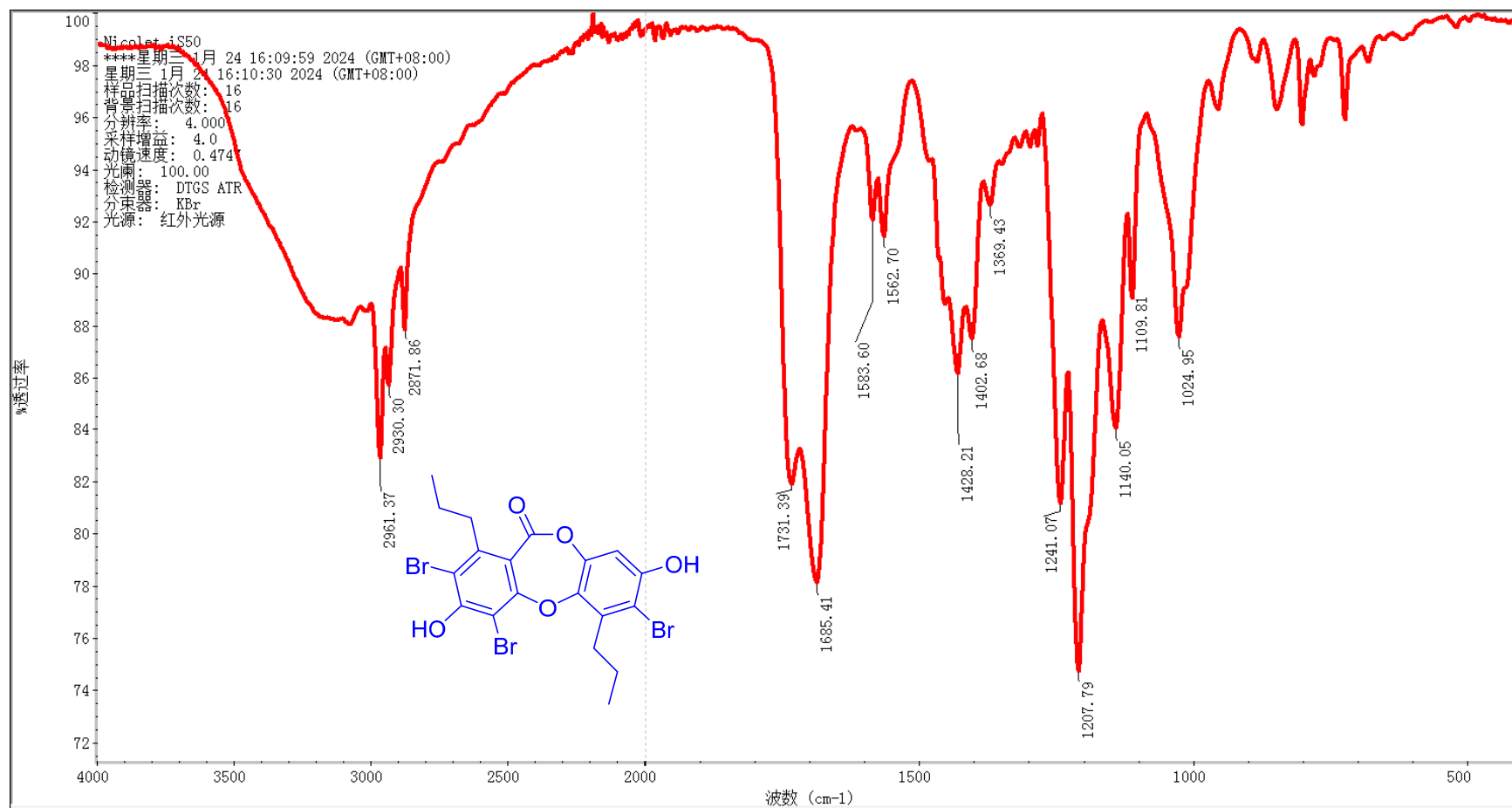


Figure S40. IR spectrum of **5**

Table S6. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 6

No.	δ_{H}	δ_{C}	COSY	HMBC
1		113.2, C		
2		159.2, C		
3		101.3, C		
4		159.2, C		
5		114.1, C		
6		146.1, C		
7		161.7, C		
8	2.78, t (7.9)	27.1, CH ₂		C-1, C-5, C-6, C-9, C-10
9	1.47, m	23.1, CH ₂		C-6, C-8, C-10
10	0.90, t (7.3)	14.4, CH ₃		C-8, C-9
1'		143.0, C		
2'		143.7, C		
3'	7.12, s	103.5, CH		C-1, C-2, C-4, C-5
4'		154.4, C		
5'		110.0, C		
6'		136.1, C		
7'	3.14, t (7.5)	33.0, CH ₂		C-1', C-5', C-6', C-8', C-9'
8'	1.61, m	22.9, CH ₂		C-6', C-7', C-9'
9'	1.01, t (7.3)	14.4, CH ₃		C-7', C-8'
MeO	3.84, s	57.6, CH ₃		C-4'

Fr.C-1 400 MHz DMSO

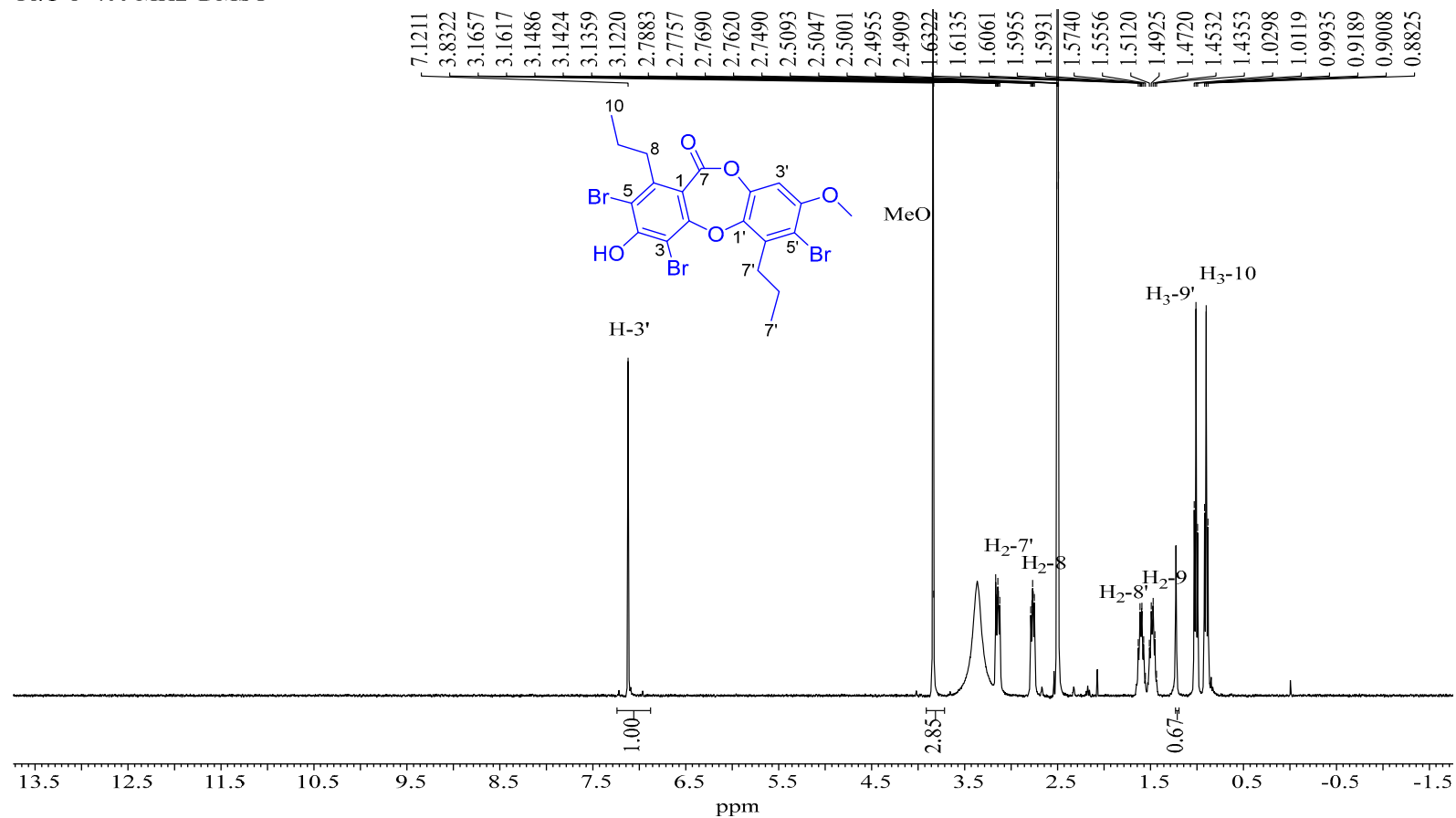


Figure S41. ¹H-NMR spectrum of **6** in DMSO-*d*₆ (400 MHz)

Fr.C-1 C

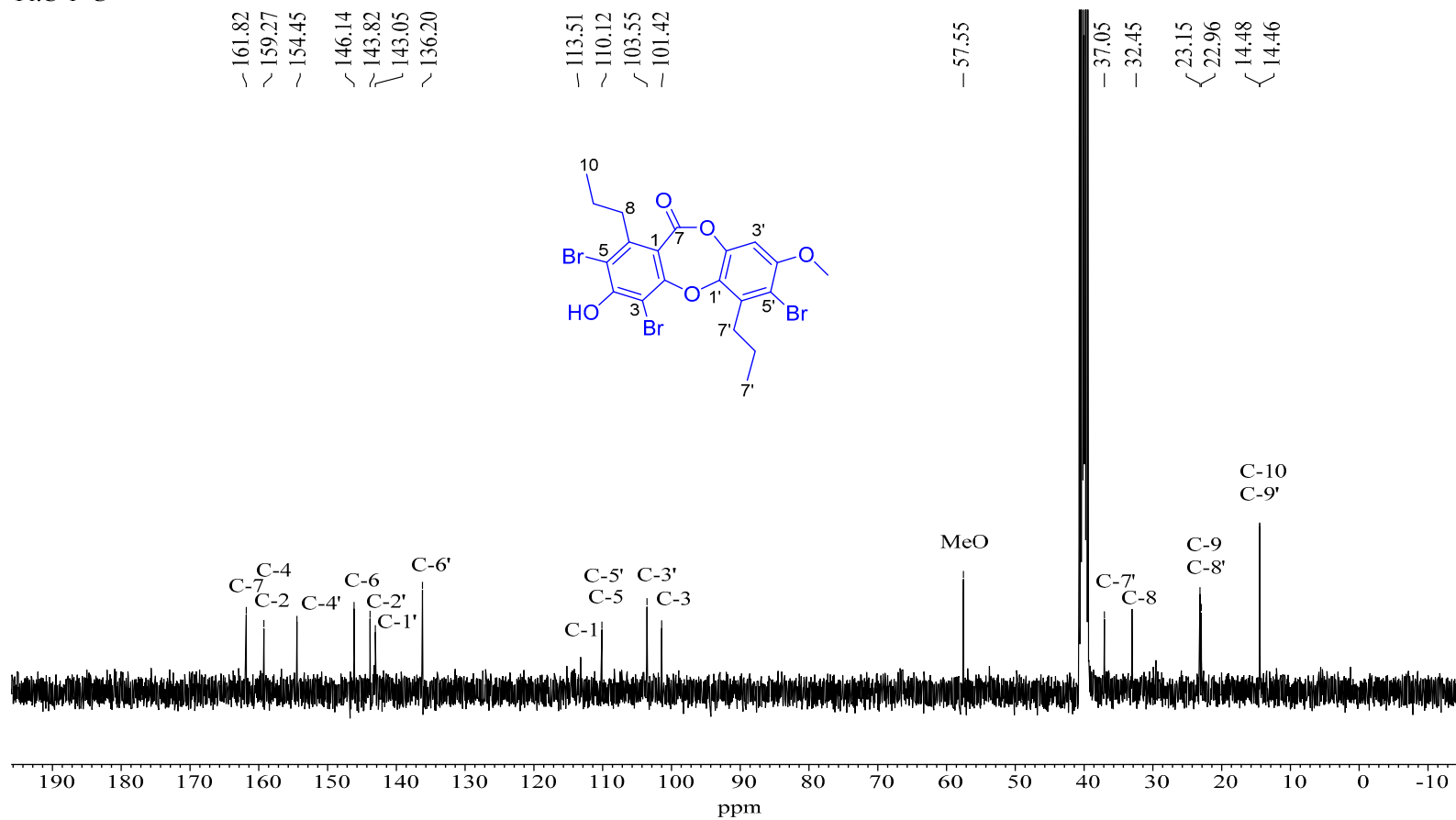


Figure S42. ^{13}C -NMR spectrum of **6** in $\text{DMSO-}d_6$ (100 MHz)

Fr.C-1 HSQC

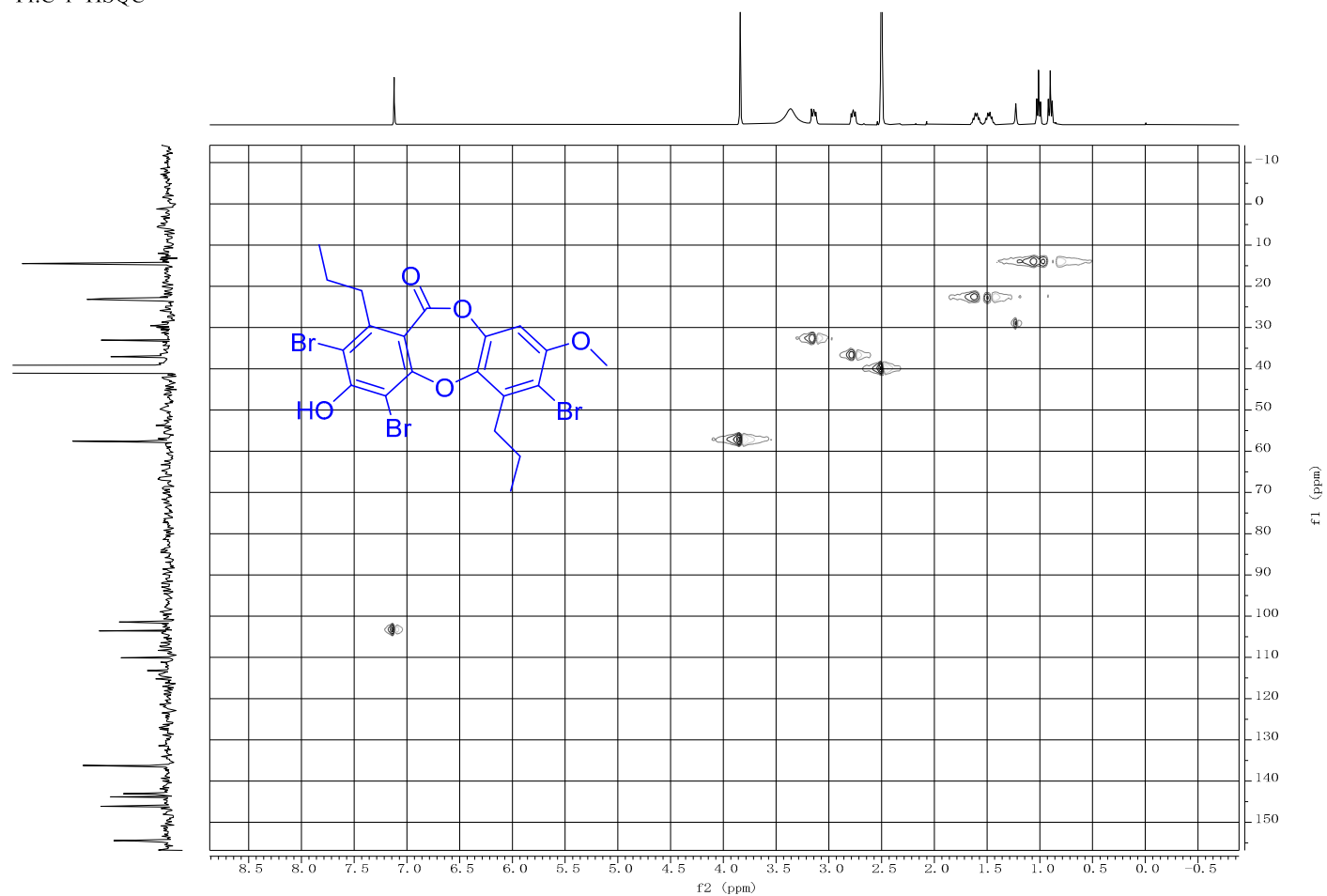


Figure S43. HSQC spectrum of **6** in DMSO-*d*₆

Fr.C-1 COSY

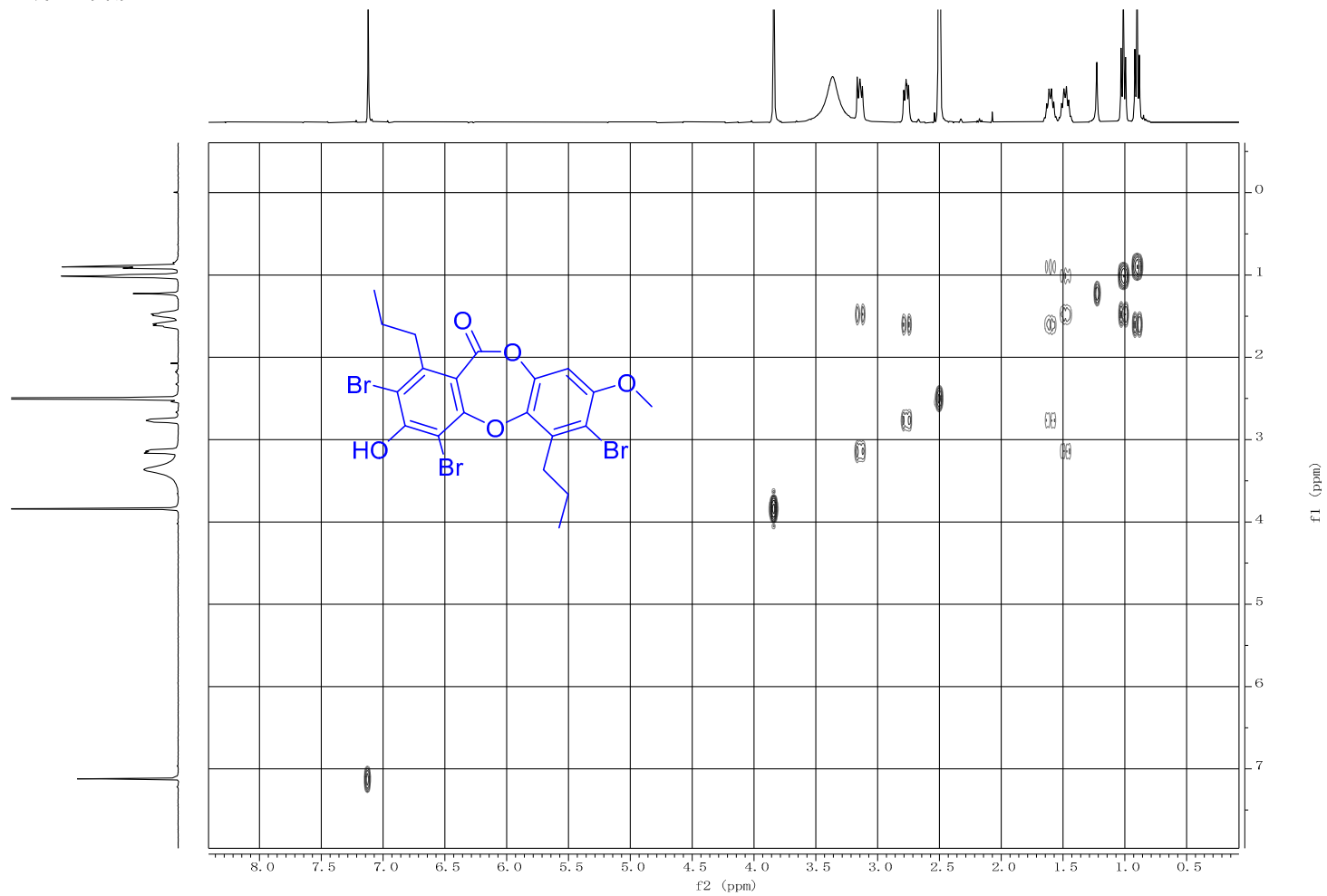


Figure S44. ^1H - ^1H COSY spectrum of **6** in $\text{DMSO-}d_6$

Fr.C-1 HMBC

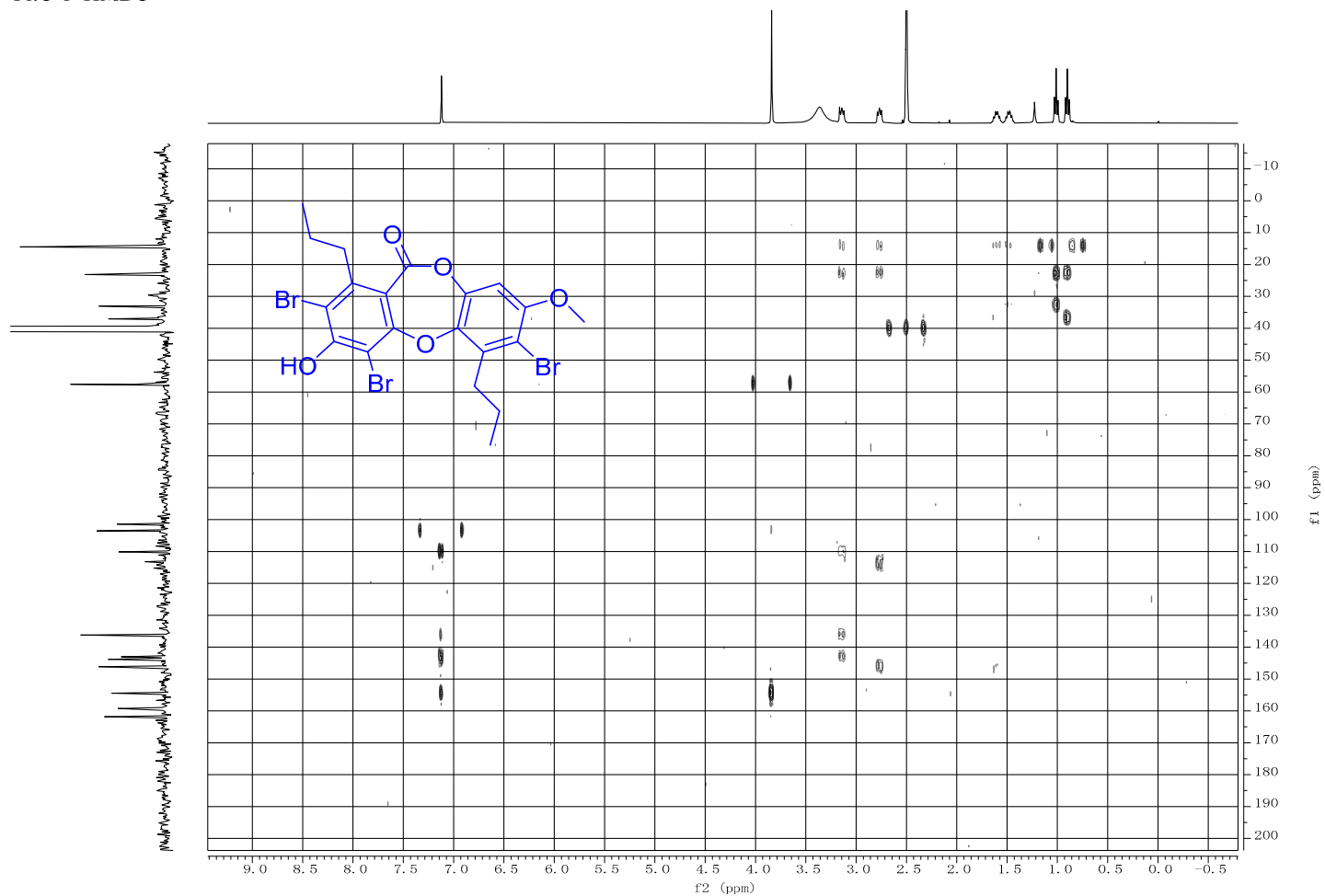


Figure S45. HMBC spectrum of **6** in $\text{DMSO}-d_6$

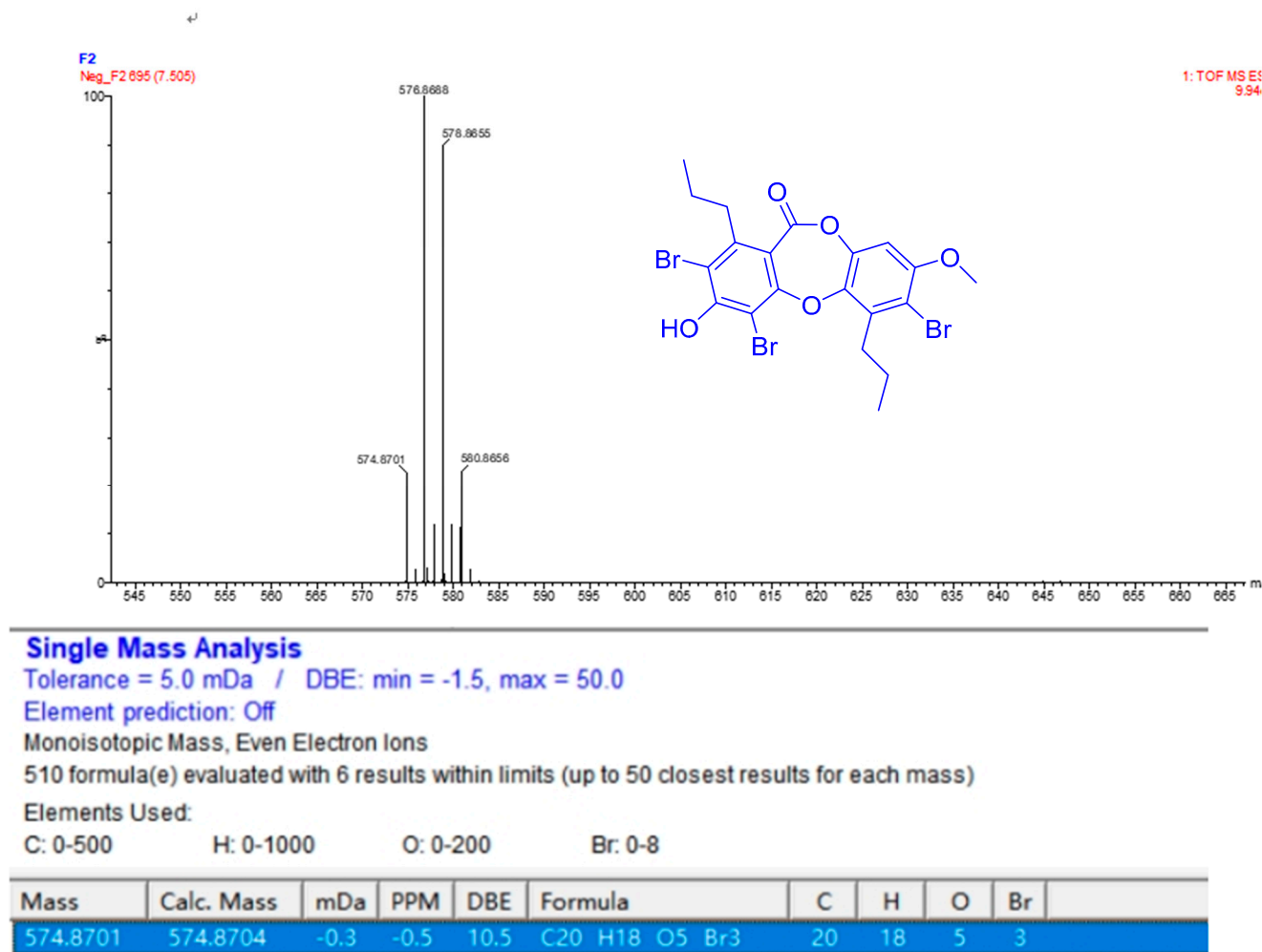


Figure S46. HRESIMS spectrum of **6**

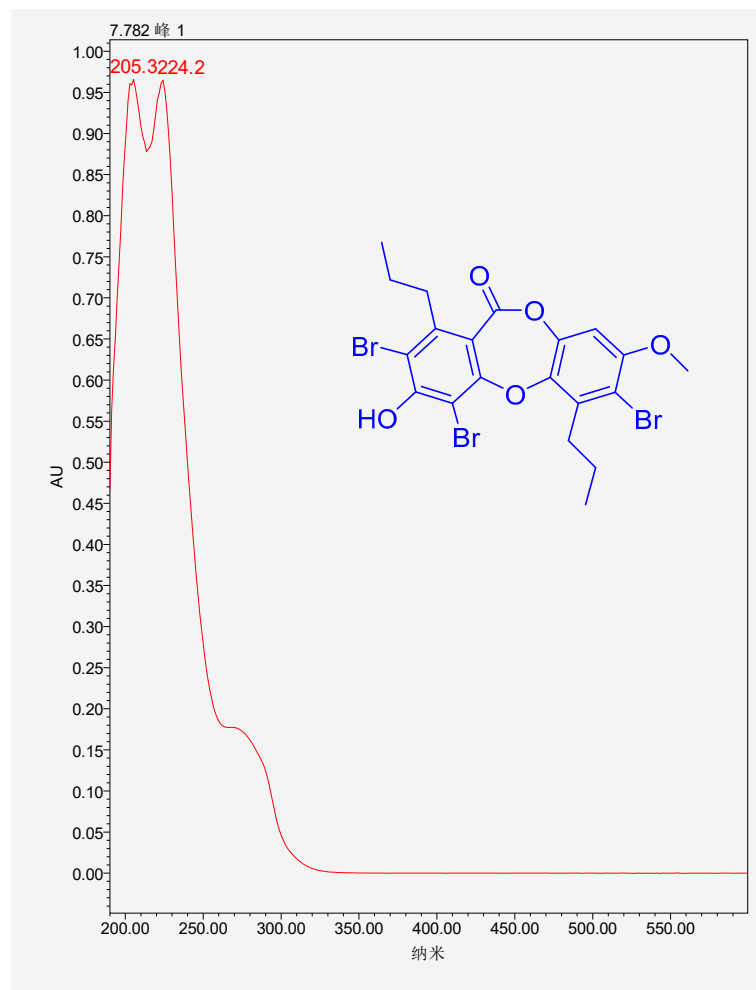


Figure S47. UV spectrum of **6**

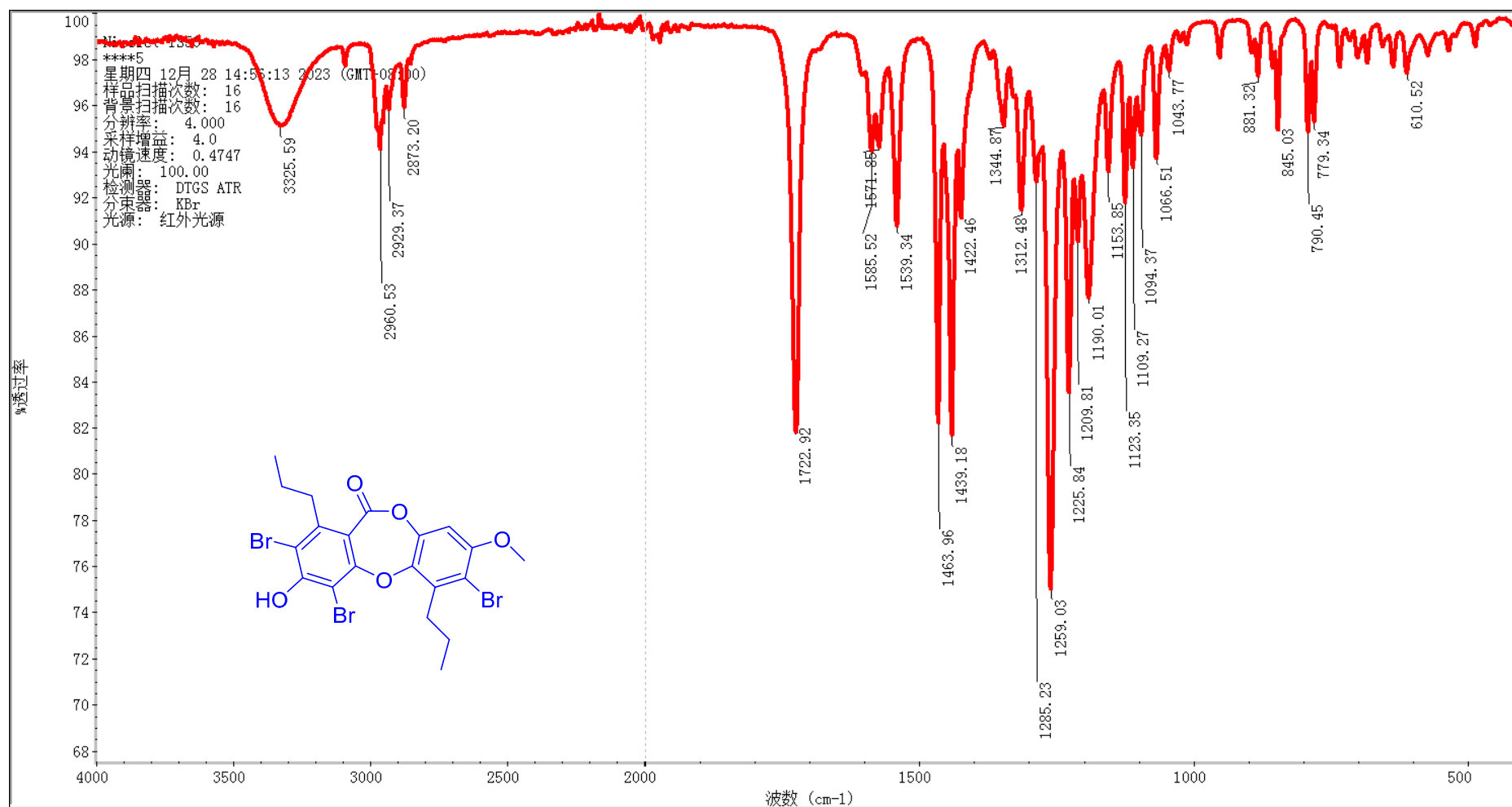


Figure S48. IR spectrum of 6

Table S7. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 7

No.	δ_{H}	δ_{C}	COSY	HMBC
1		111.5, C		
2		160.2, C		
3		99.2, C		
4		160.0, C		
5	6.84, s	115.6, C		C-1, C-3, C-4, C-8
6		148.8, C		
7		160.7, C		
8	2.68, t (7.7)	35.7, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.48, m	24.5, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.83, t (7.3)	14.2, CH ₃	H ₂ -9	C-8, C-9
1'		146.7, C		
2'		142.2, C		
3'		108.3, C		
4'		152.8, C		
5'		117.2, C		
6'		135.5, C		
7'	3.16, t (8.0)	33.2, CH ₂	H ₂ -8'	C-1', C-5', C-6', C-8', C-9'
8'	1.50, m	22.8, CH ₂	H ₂ -7', H ₃ -9'	C-6', C-7', C-9'
9'	1.00, t (7.2)	14.3, CH ₃	H ₂ -8'	C-7', C-8'
MeO	3.78, s	60.9, CH ₃		C-4'

M-16-1 500 MHz DMSO

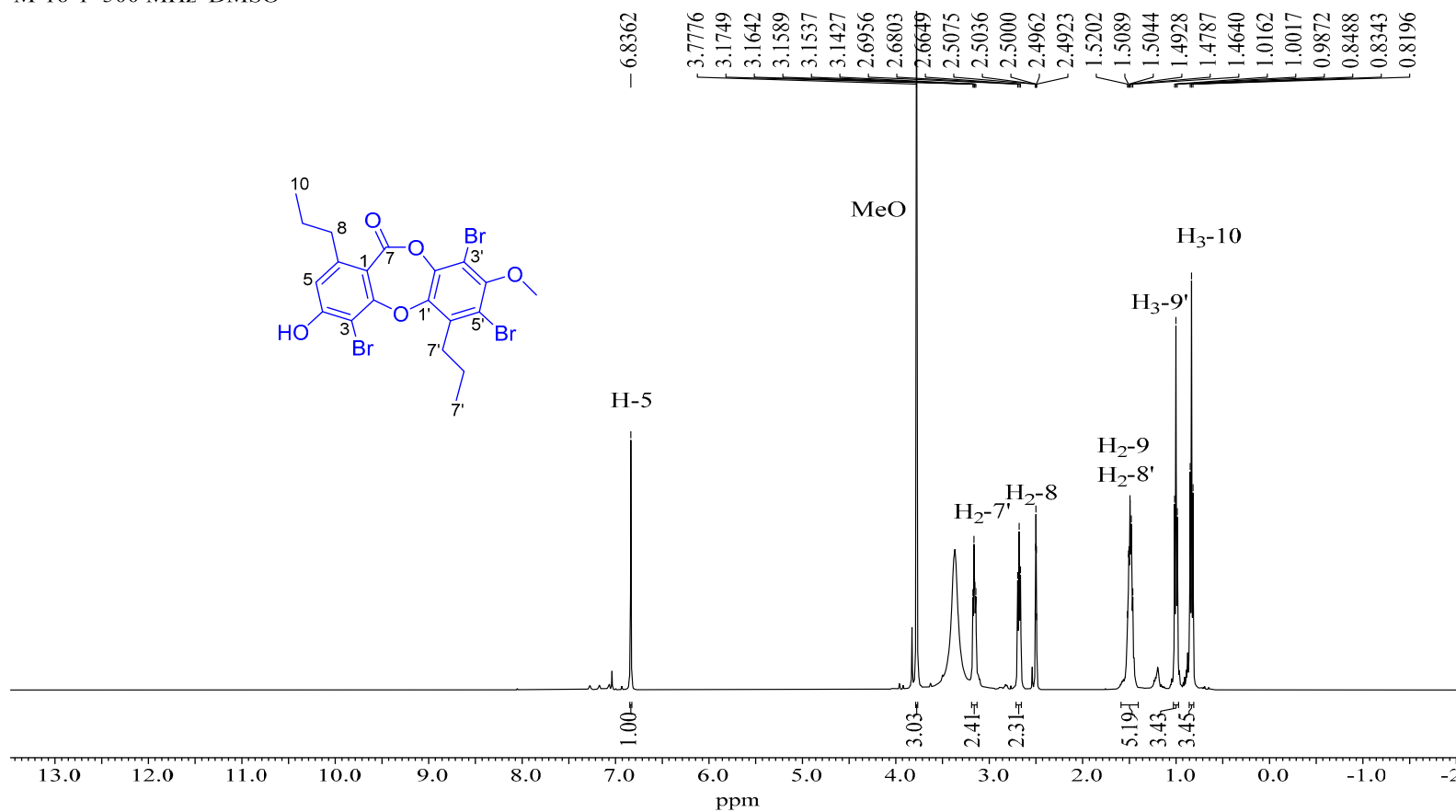


Figure S49. ¹H-NMR spectrum of **7** in DMSO-*d*₆ (500 MHz)

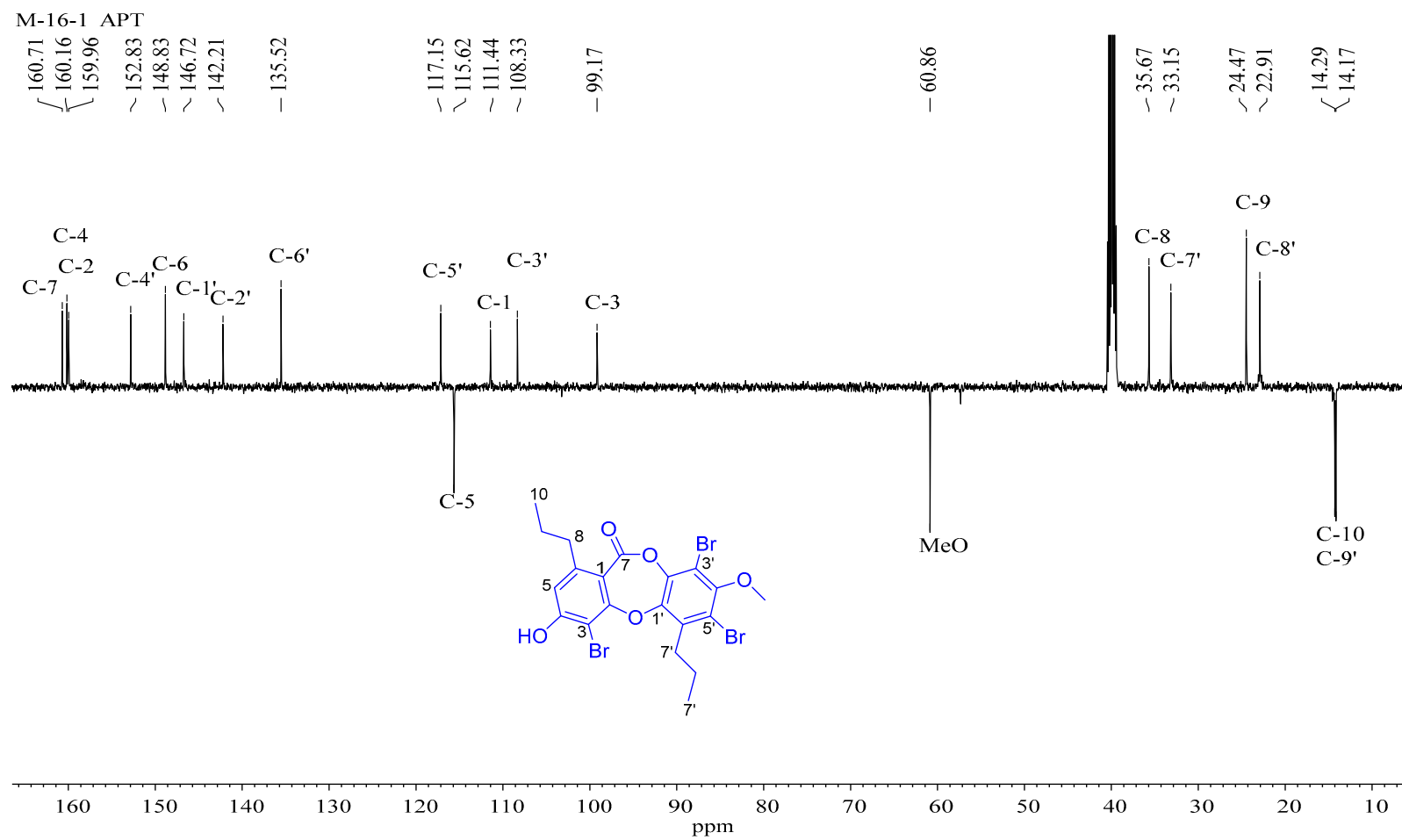


Figure S50. APT spectrum of **7** in DMSO- d_6 (125 MHz)

M-16-1 HSQC

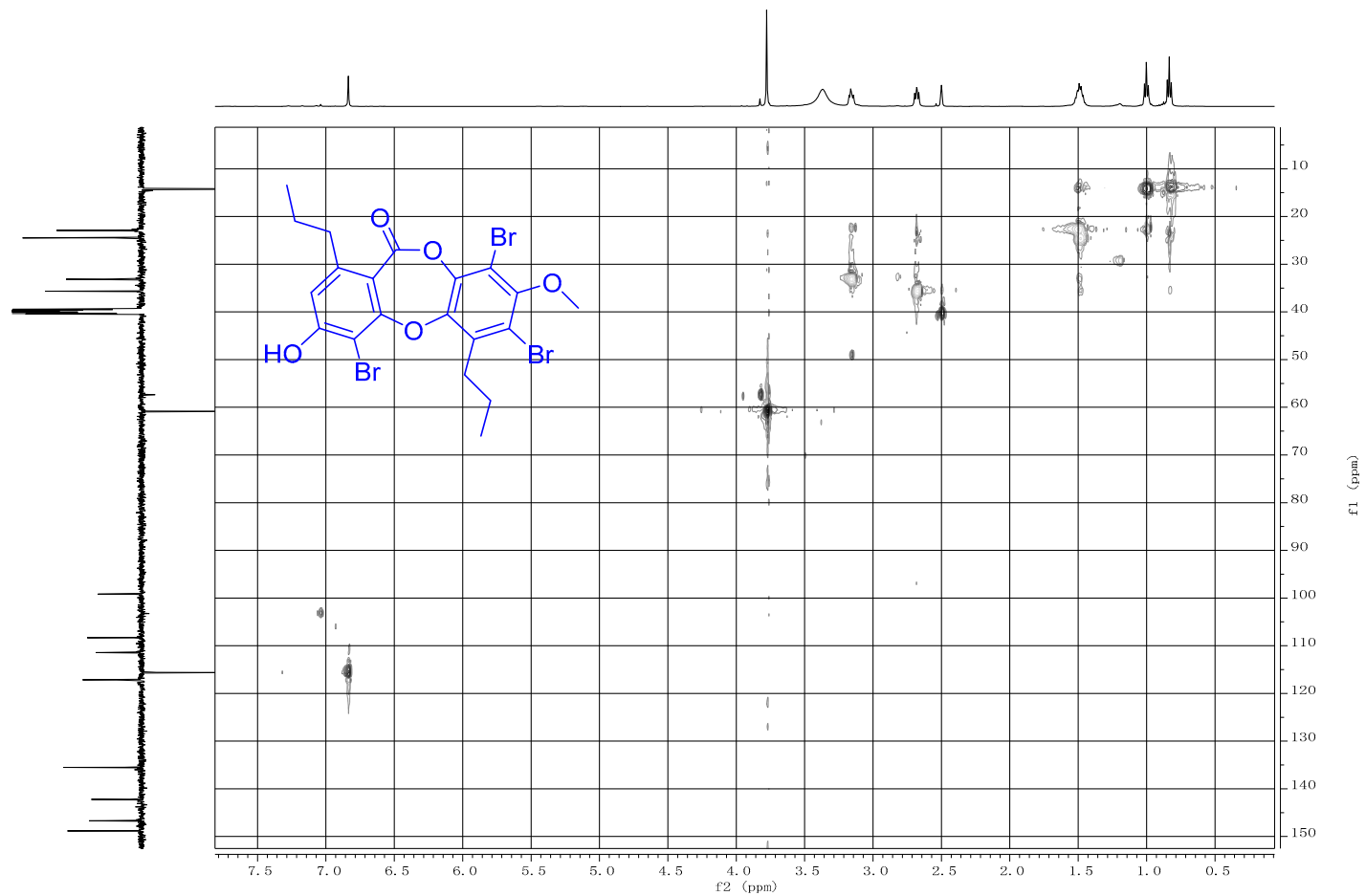


Figure S51. HSQC spectrum of **7** in DMSO-*d*₆

M-16-1 COSY

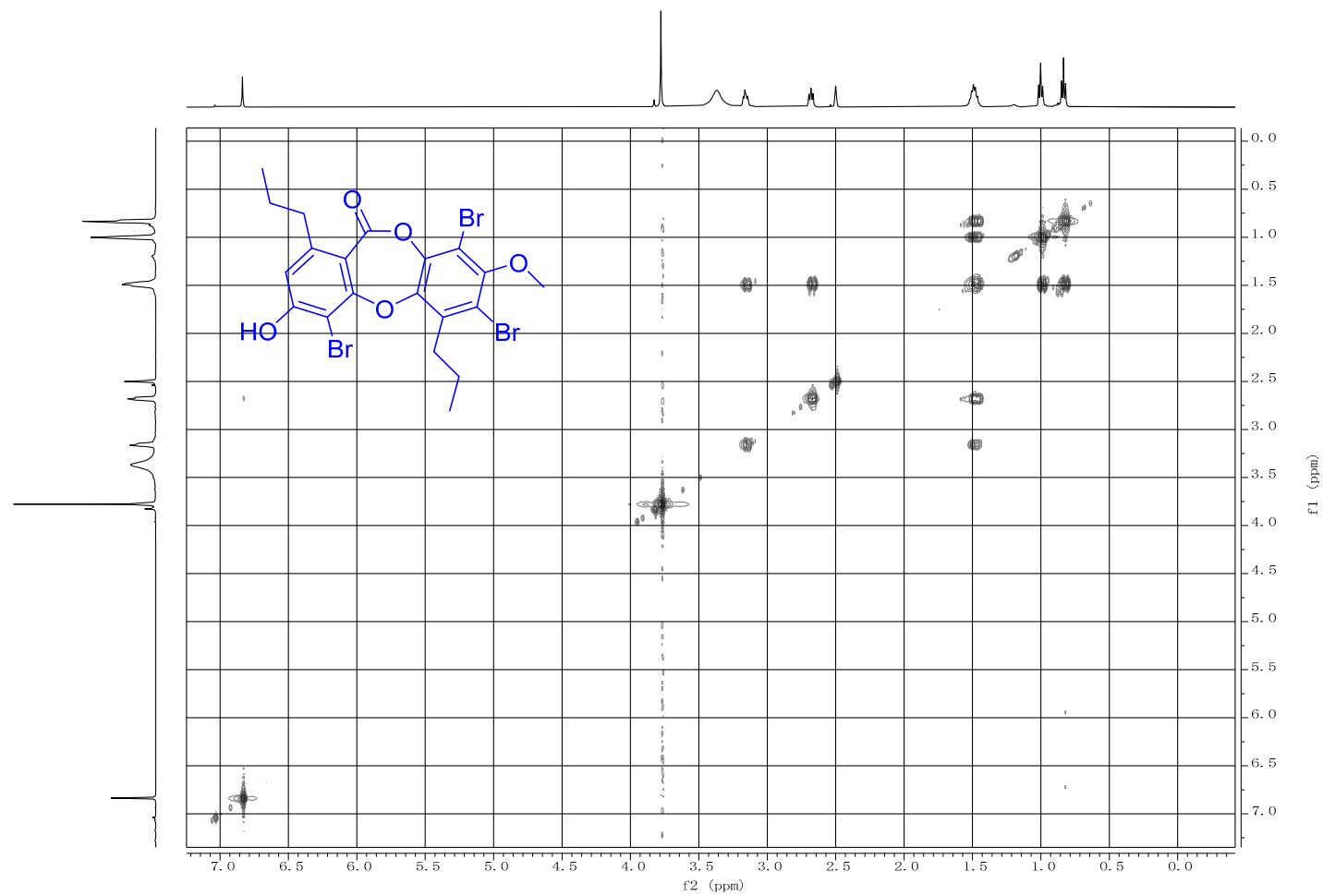


Figure S52. ^1H - ^1H COSY spectrum of **7** in $\text{DMSO-}d_6$

M-16-1 HMBC

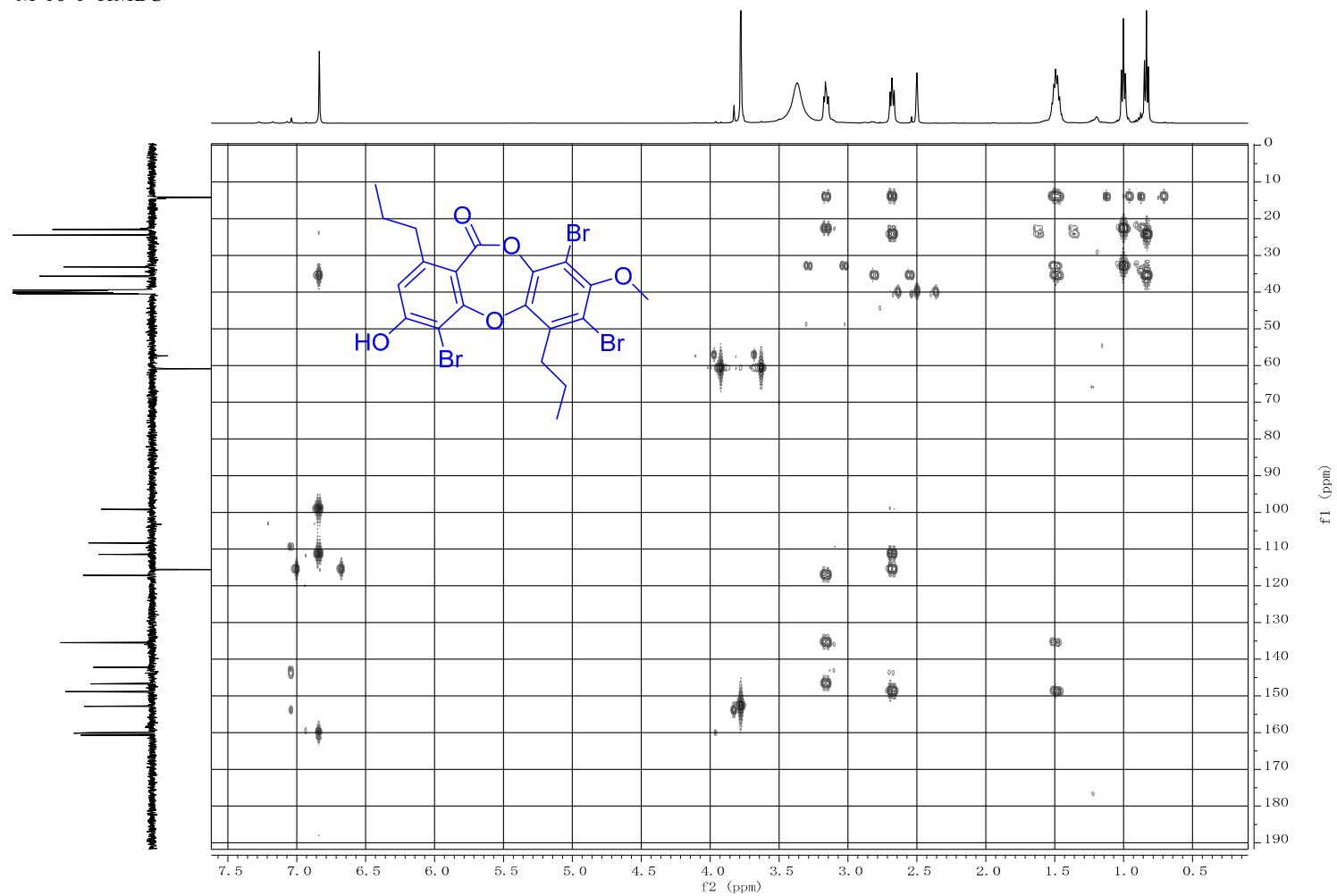


Figure S53. HMBC spectrum of **7** in DMSO-*d*₆

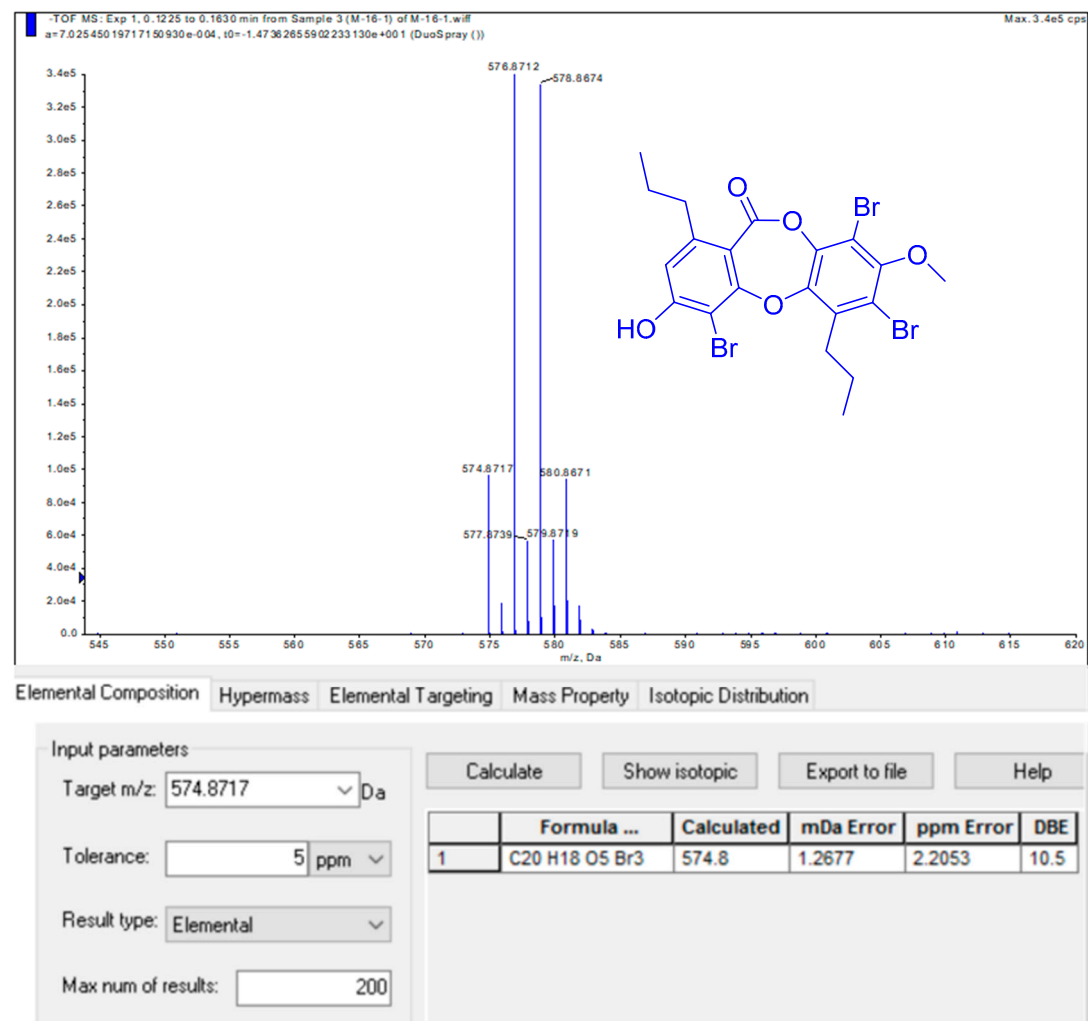


Figure S54. HRESIMS spectrum of 7

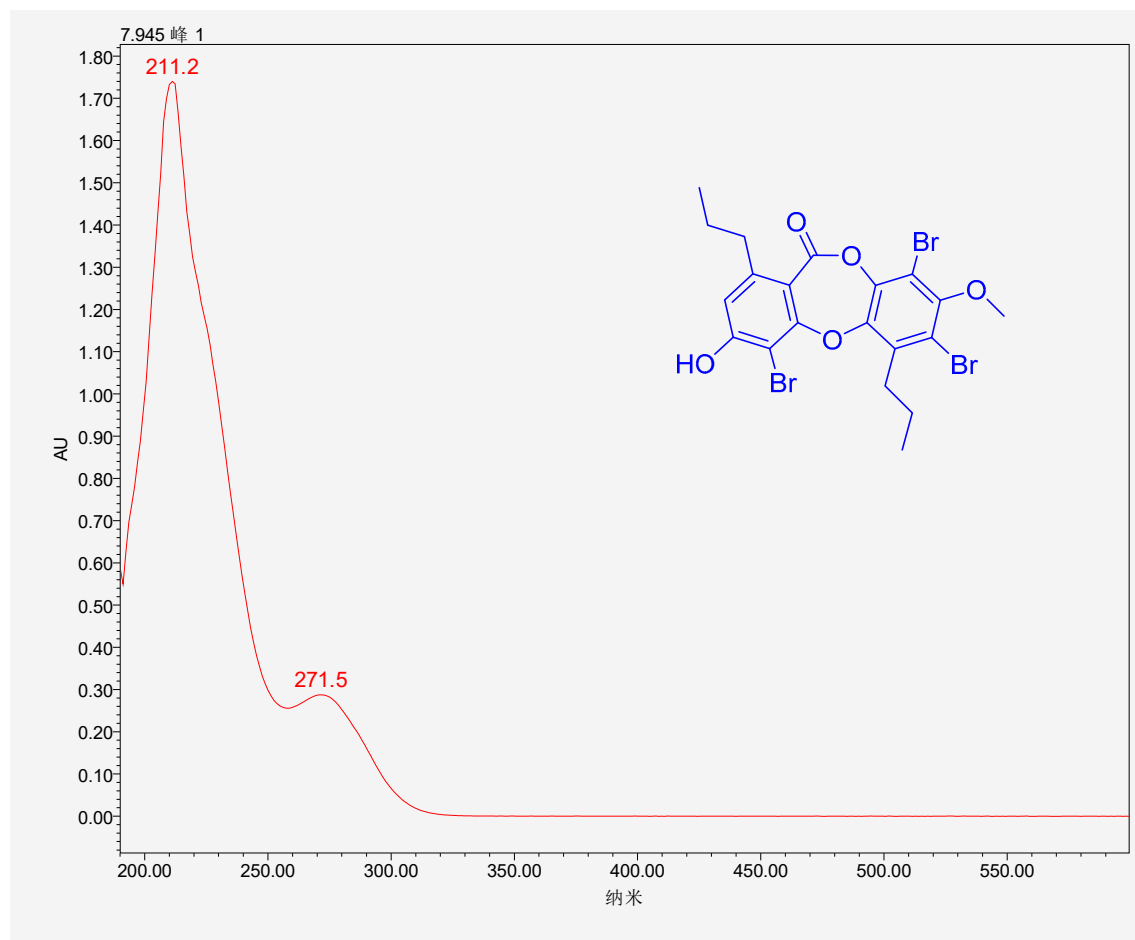


Figure S55. UV spectrum of **7**



Figure S56. IR spectrum of 7

Table S8. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 8

No.	δ_{H}	δ_{C}	COSY	HMBC
1		111.7, C		
2		161.0, C		
3	6.84, s	105.7, CH		C-1, C-2, C-3, C-4
4		158.4, C		
5		112.4, C		
6		147.3, C		
7		161.2, C		
8	2.85, m	35.7, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.55, m	22.8, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.88, t (7.2)	14.2, CH ₃	H ₂ -9	C-8, C-9
1'		146.1, C		
2'		142.5, C		
3'		108.0, C		
4'		152.5, C		
5'		116.6, C		
6'		135.2, C		
7'	2.87, m	32.5, CH ₂	H ₂ -8'	C-1', C-5', C-6', C-8', C-9'
8'	1.55, m	22.5, CH ₂	H ₂ -7', H ₃ -9'	C-6', C-7', C-9'
9'	1.04, t (7.2)	14.5, CH ₃	H ₂ -8'	C-7', C-8'
MeO	3.76, s	60.9, CH ₃		C-4'

M-16-2 500 MHz DMSO

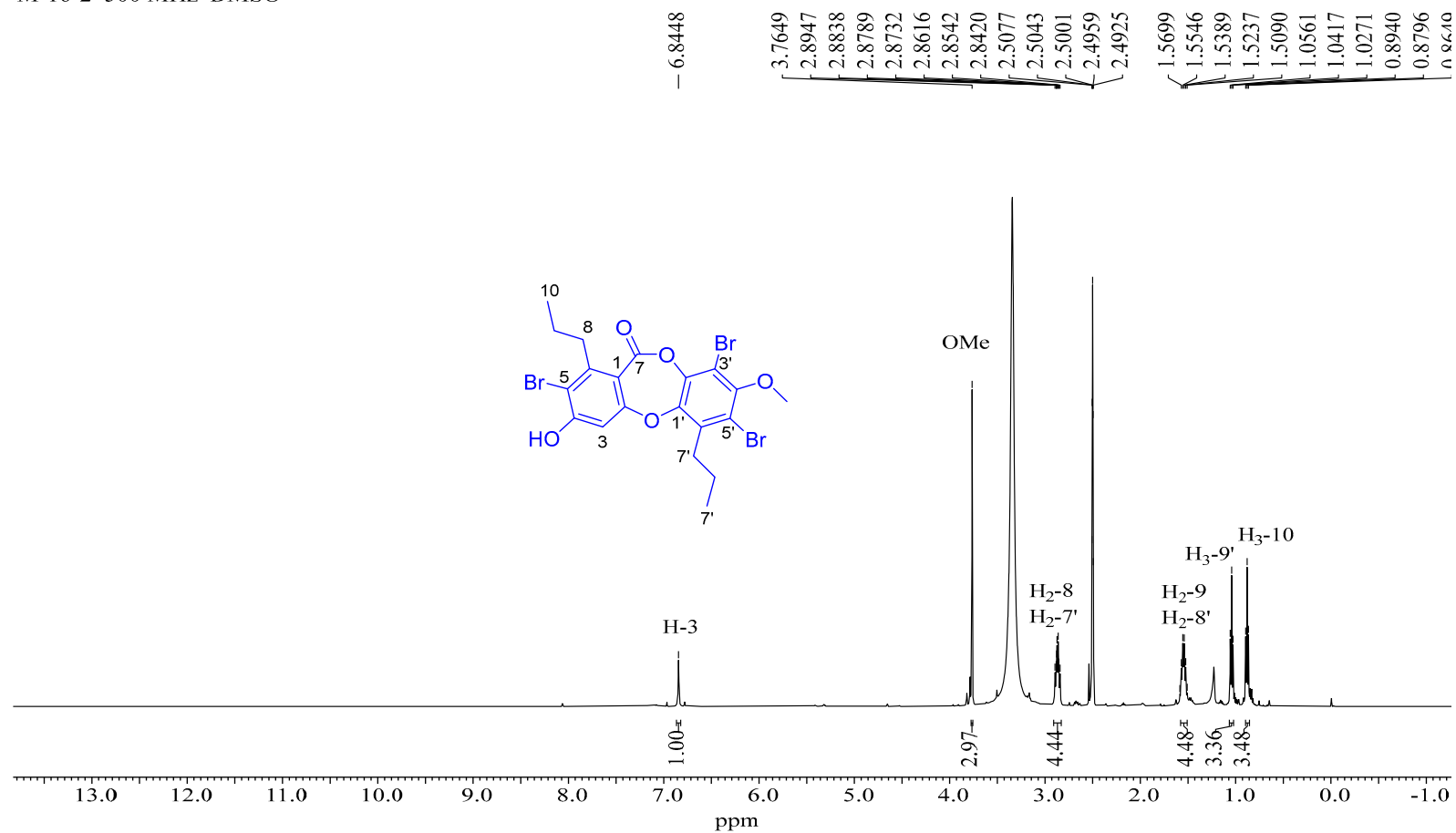


Figure S57. ^1H -NMR spectrum of **8** in DMSO- d_6 (500 MHz)

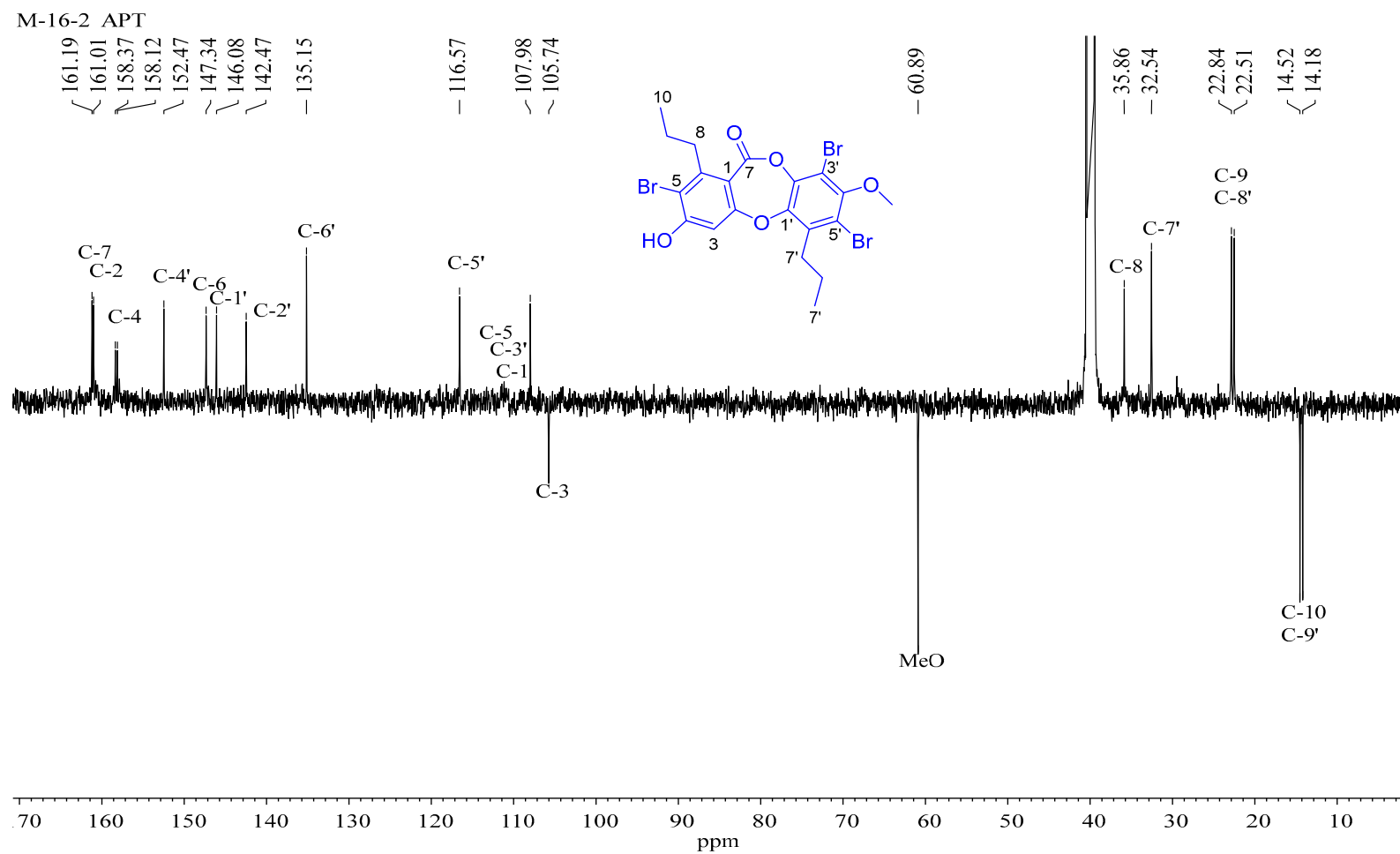


Figure S58. APT spectrum of **8** in DMSO-*d*₆ (125 MHz)

M-16-2 HSQC

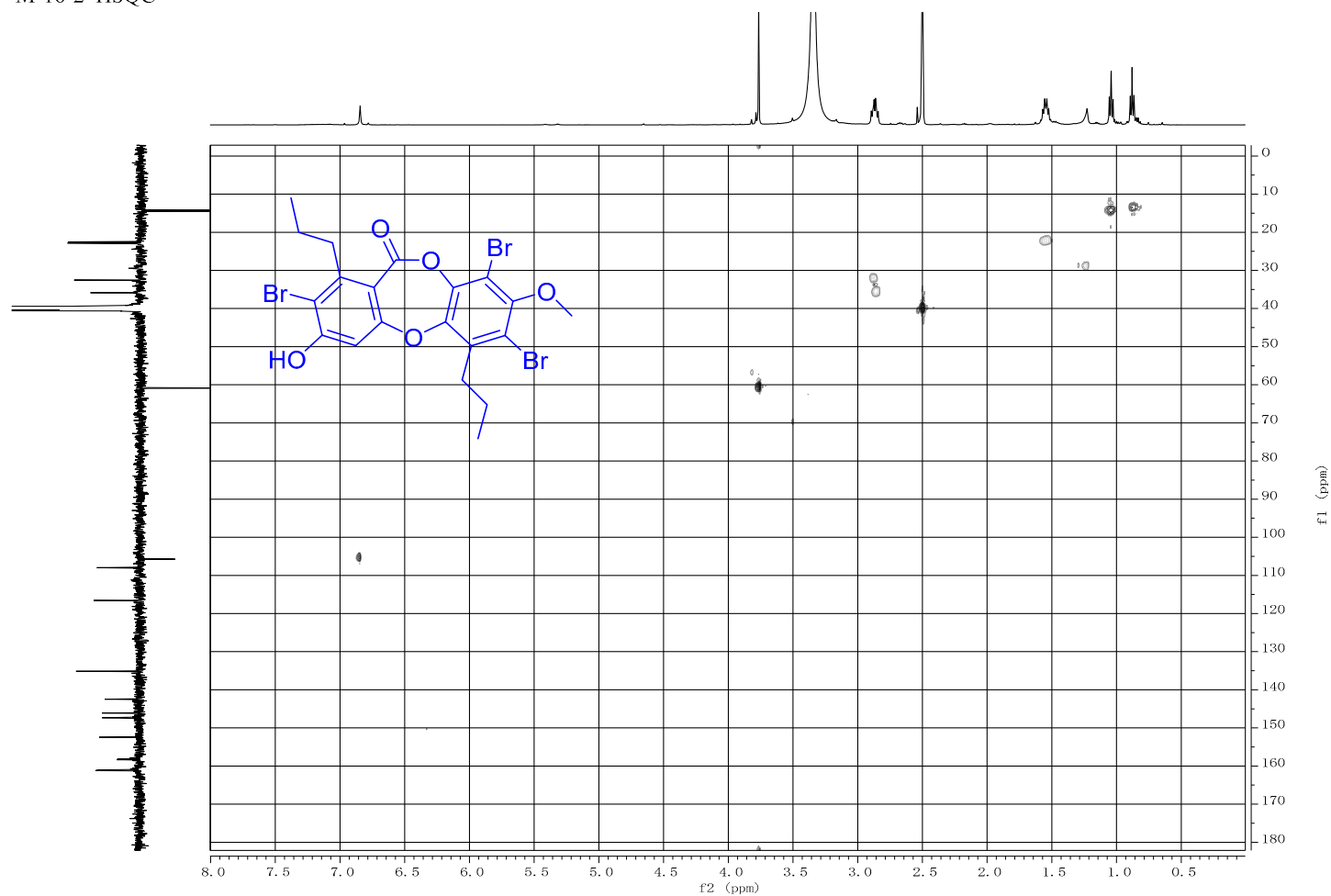


Figure S59. HSQC spectrum of **8** in DMSO-*d*₆

M-16-2 COSY

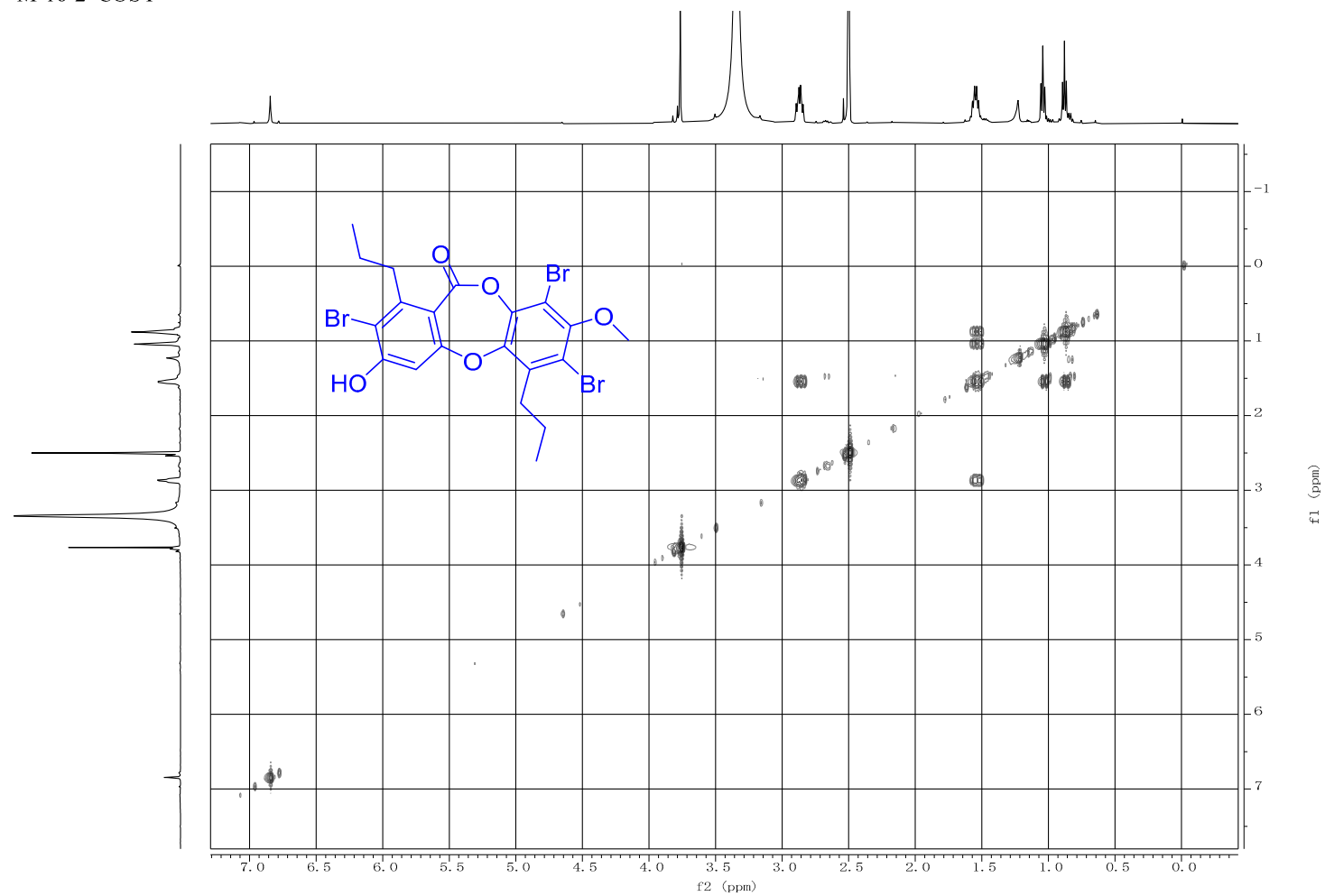


Figure S60. ^1H - ^1H COSY spectrum of **8** in $\text{DMSO}-d_6$

M-16-2 HMBC

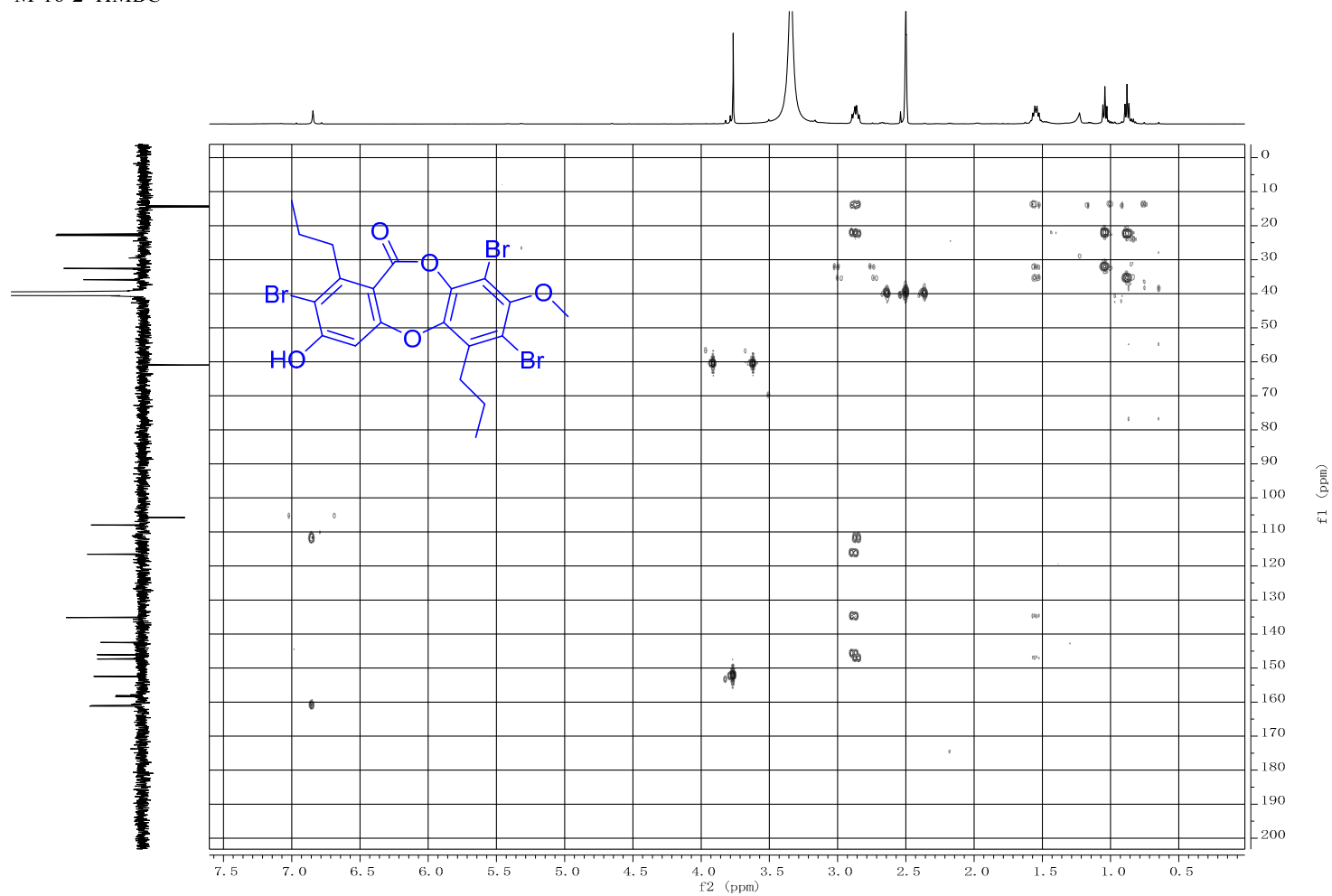


Figure S61. HMBC spectrum of **8** in DMSO-*d*₆

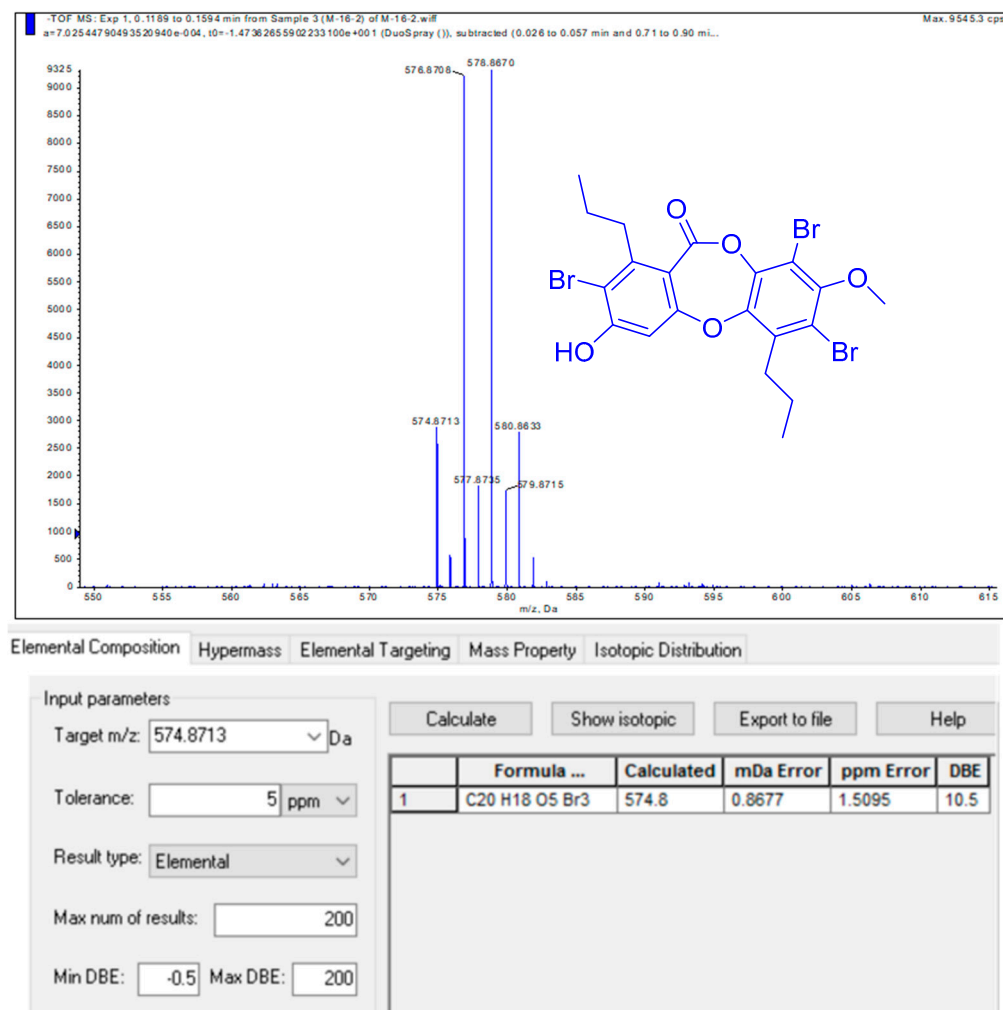


Figure S62. HRESIMS spectrum of **8**

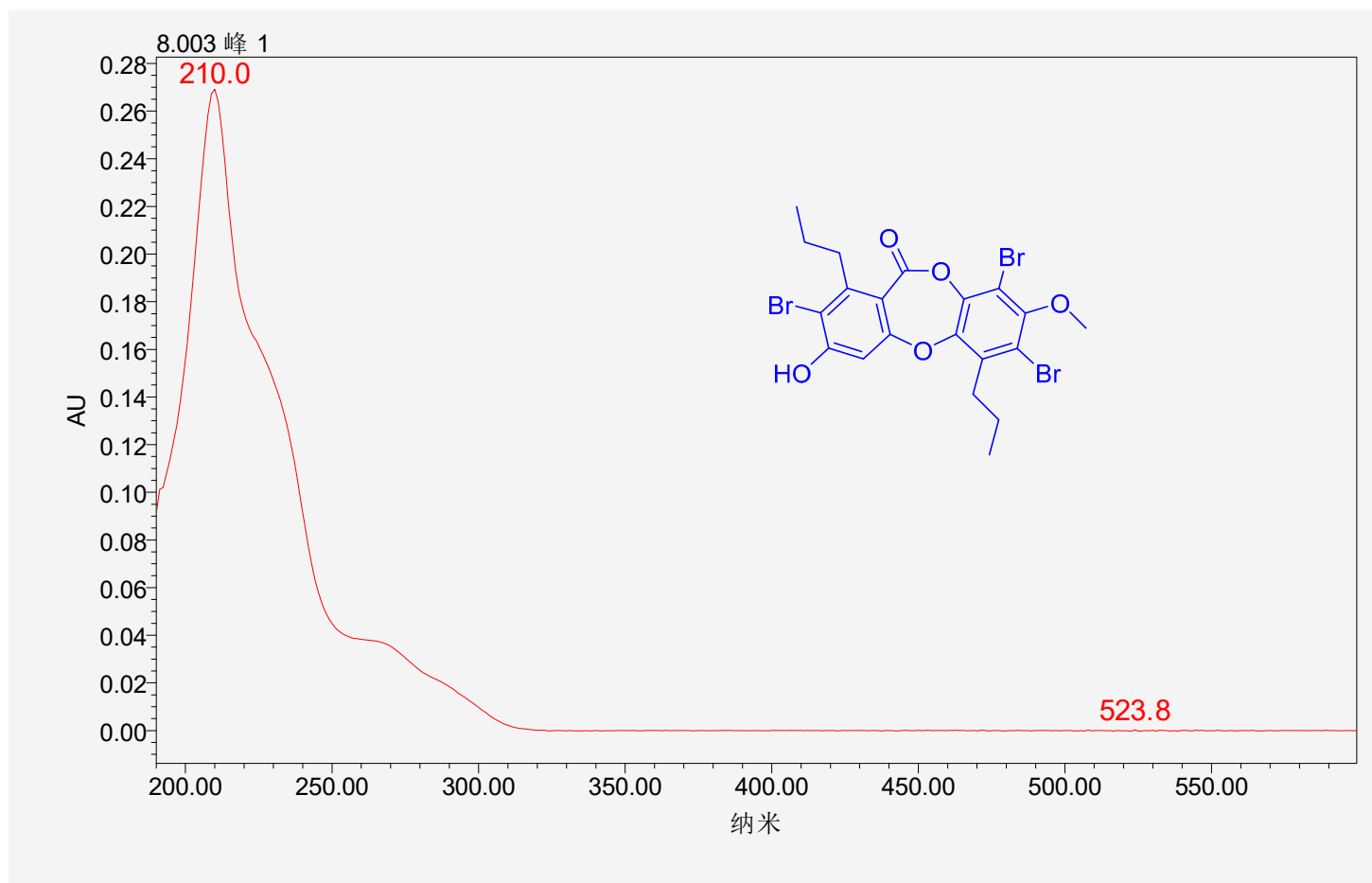


Figure S63. UV spectrum of **8**

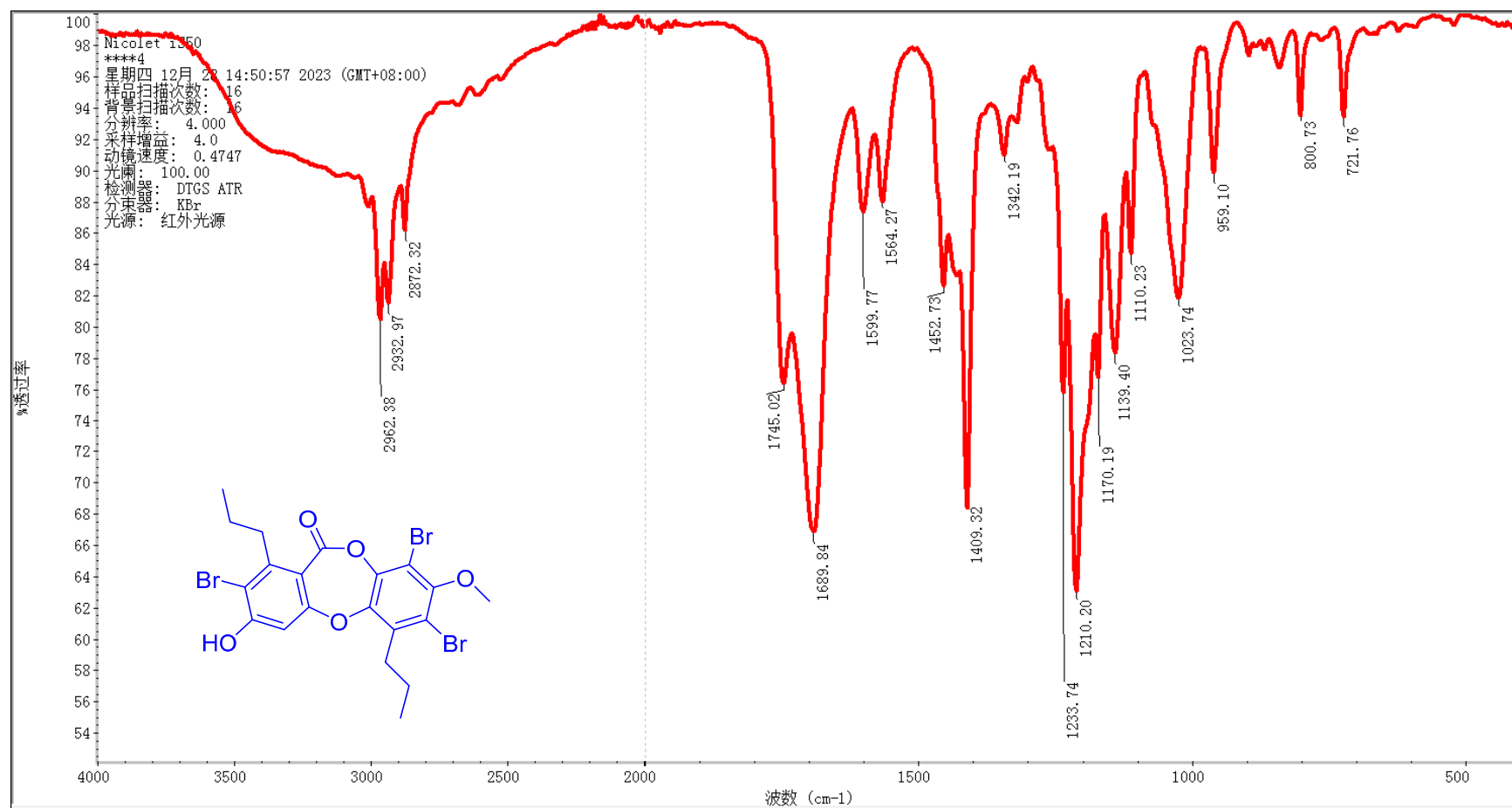


Figure S64. IR spectrum of **8**

Table S9. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 9

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.7, C		
2		158.8, C		
3		101.5, C		
4		158.8, C		
5		113.8, C		
6		146.1, C		
7		160.6, C		
8	2.81, t (7.7)	36.6, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.58, m	22.7, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.87, t (7.3)	14.1, CH ₃	H ₂ -9	C-8, C-9
1'		146.6, C		
2'		142.2, C		
3'		108.3, C		
4'		152.9, C		
5'		117.2, C		
6'		135.5, C		
7'	3.15, t (7.9)	33.2, CH ₂	H ₂ -8'	C-1', C-5', C-6', C-8', C-9'
8'	1.50, m	22.9, CH ₂	H ₂ -7', H ₃ -9'	C-6', C-7', C-9'
9'	1.02, t (7.3)	14.3, CH ₃	H ₂ -8'	C-7', C-8'
MeO	3.78, s	60.8, CH ₃		C-4'

Fr.C-2 400 MHz DMSO

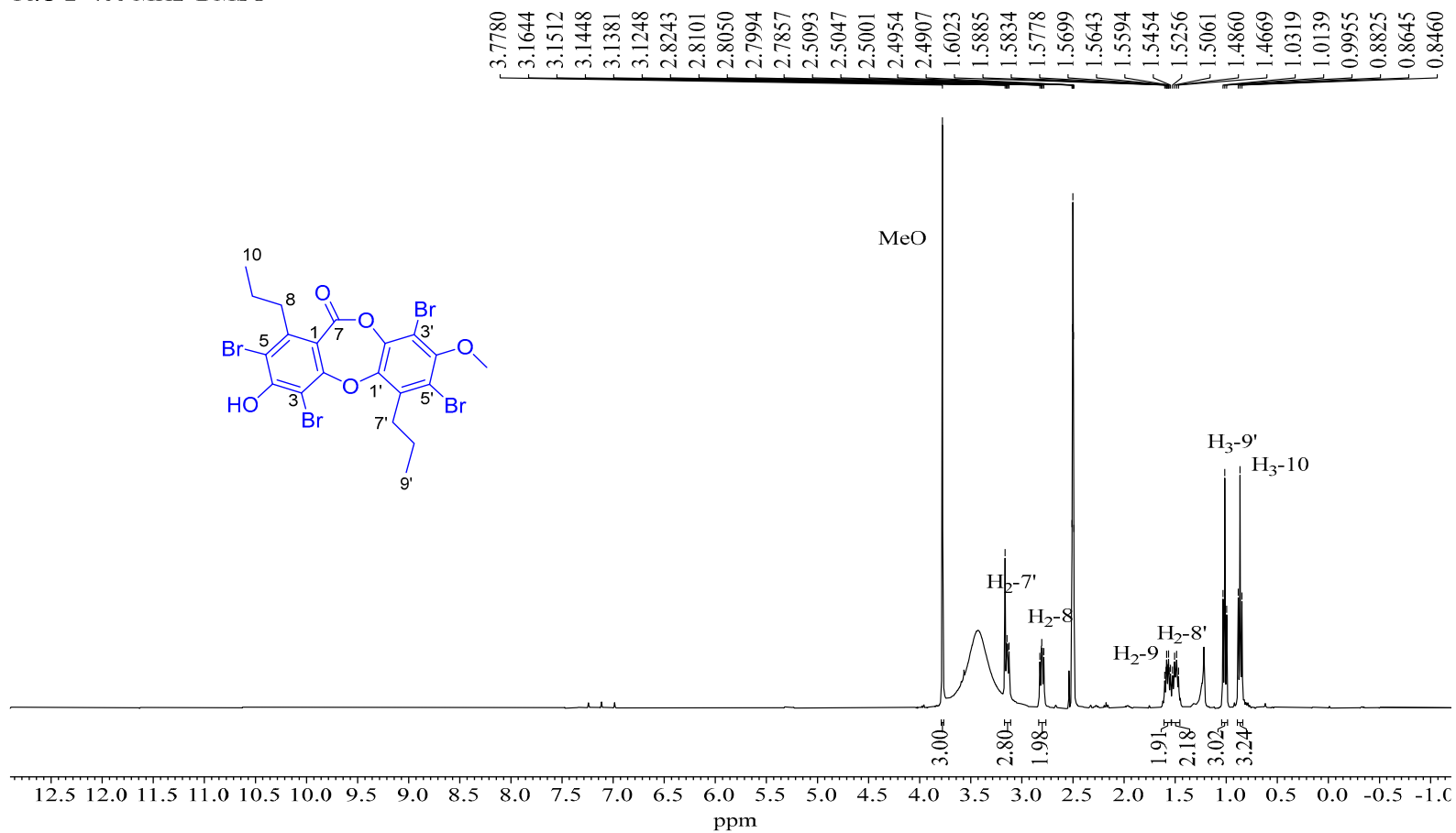


Figure S65. ^1H -NMR spectrum of **9** in DMSO- d_6 (400 MHz)

Fr.C-2 C

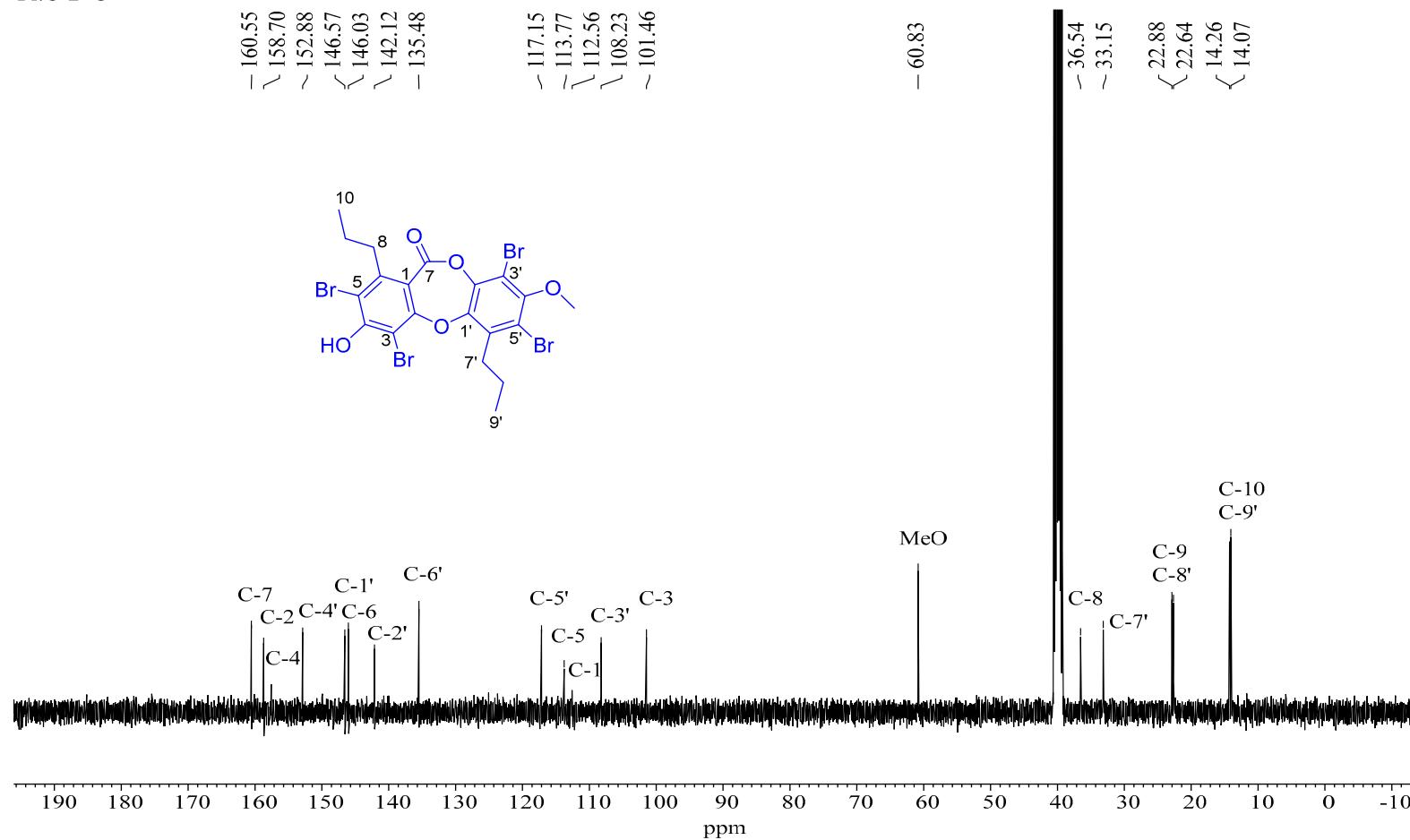


Figure S66. ^{13}C -NMR spectrum of **9** in $\text{DMSO-}d_6$ (100 MHz)

Fr.C-2 HSQC

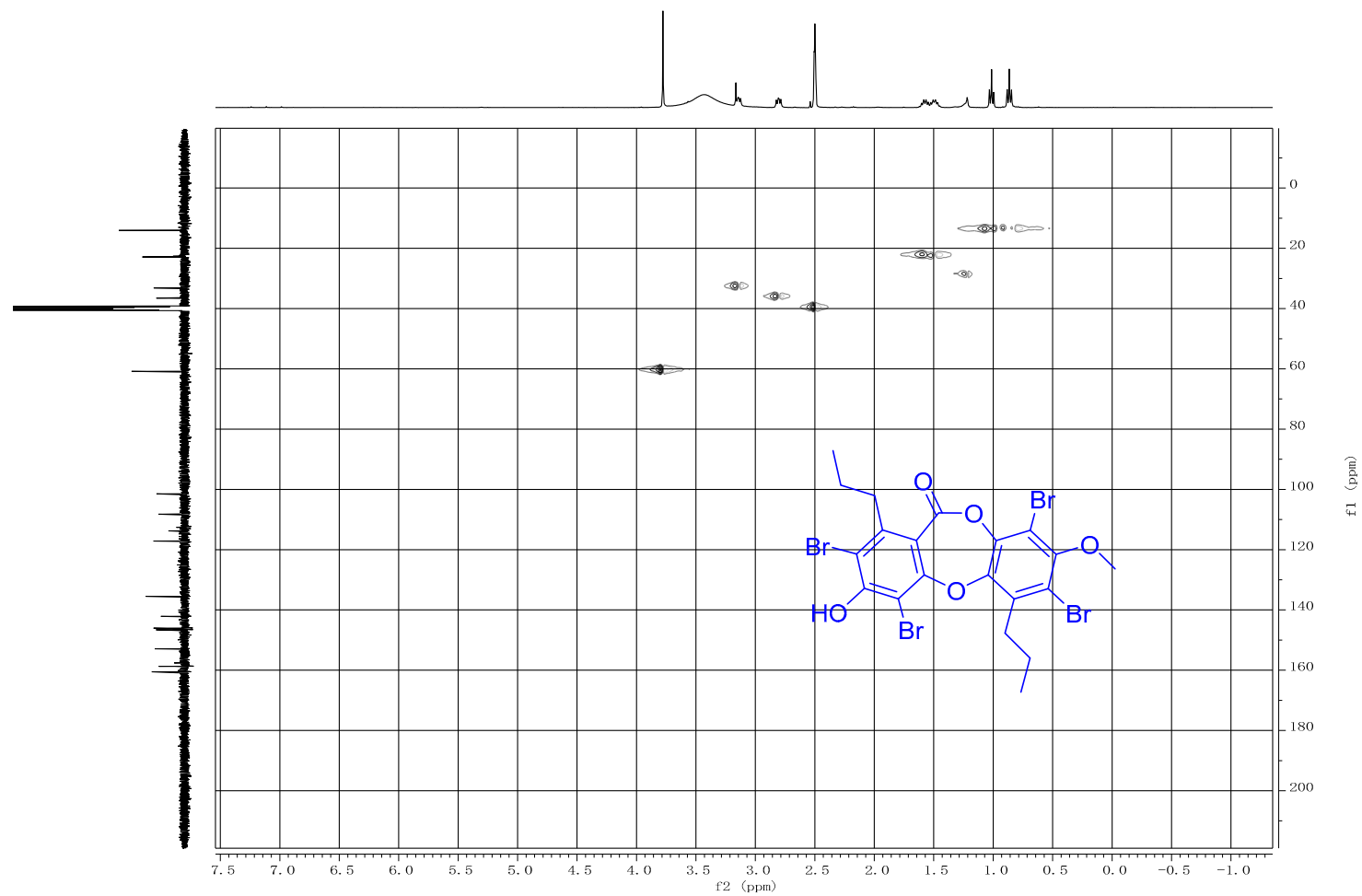


Figure S67. HSQC spectrum of **9** in DMSO-*d*₆

Fr.C-2 COSY

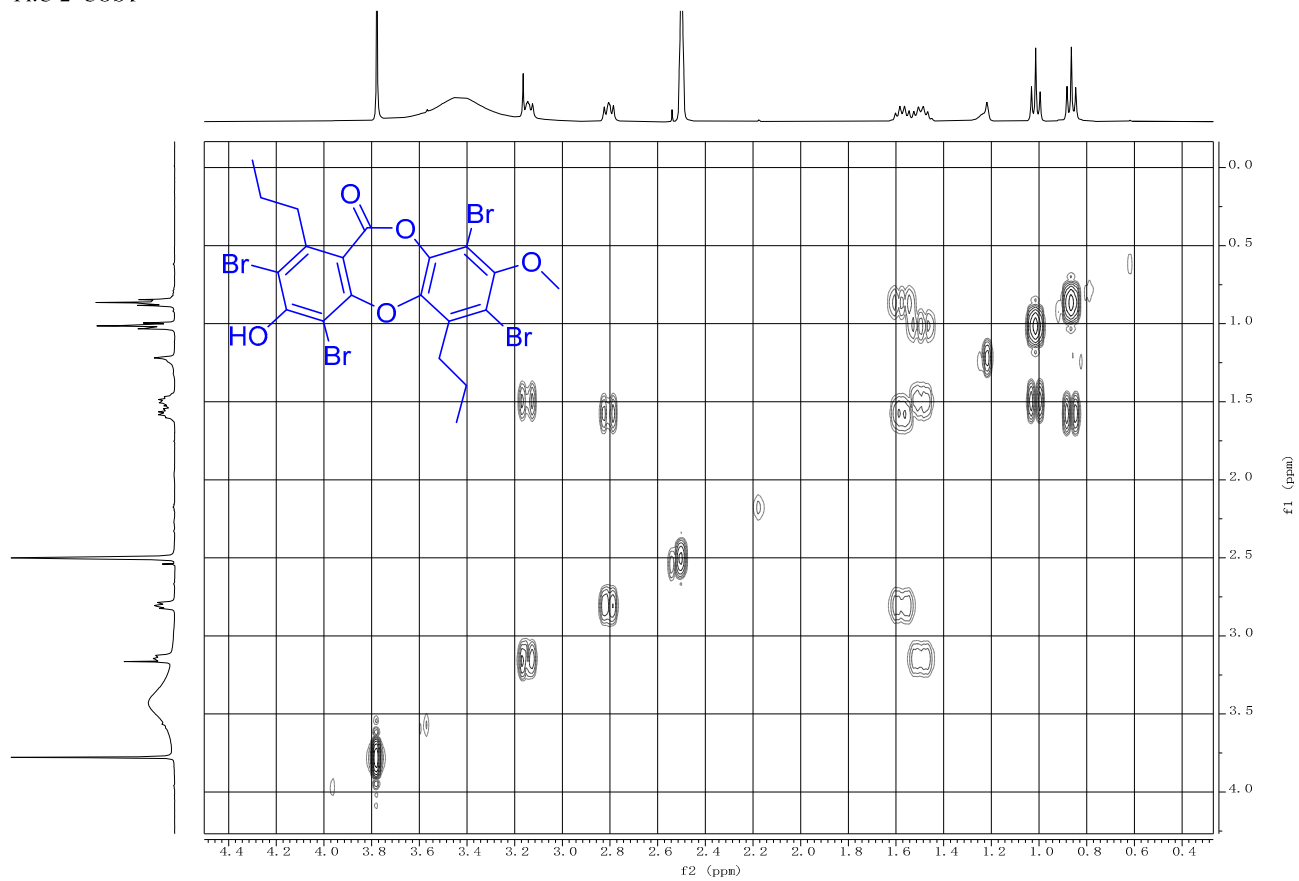


Figure S68. ^1H - ^1H COSY spectrum of **9** in $\text{DMSO}-d_6$

Fr.C-2 HMBC

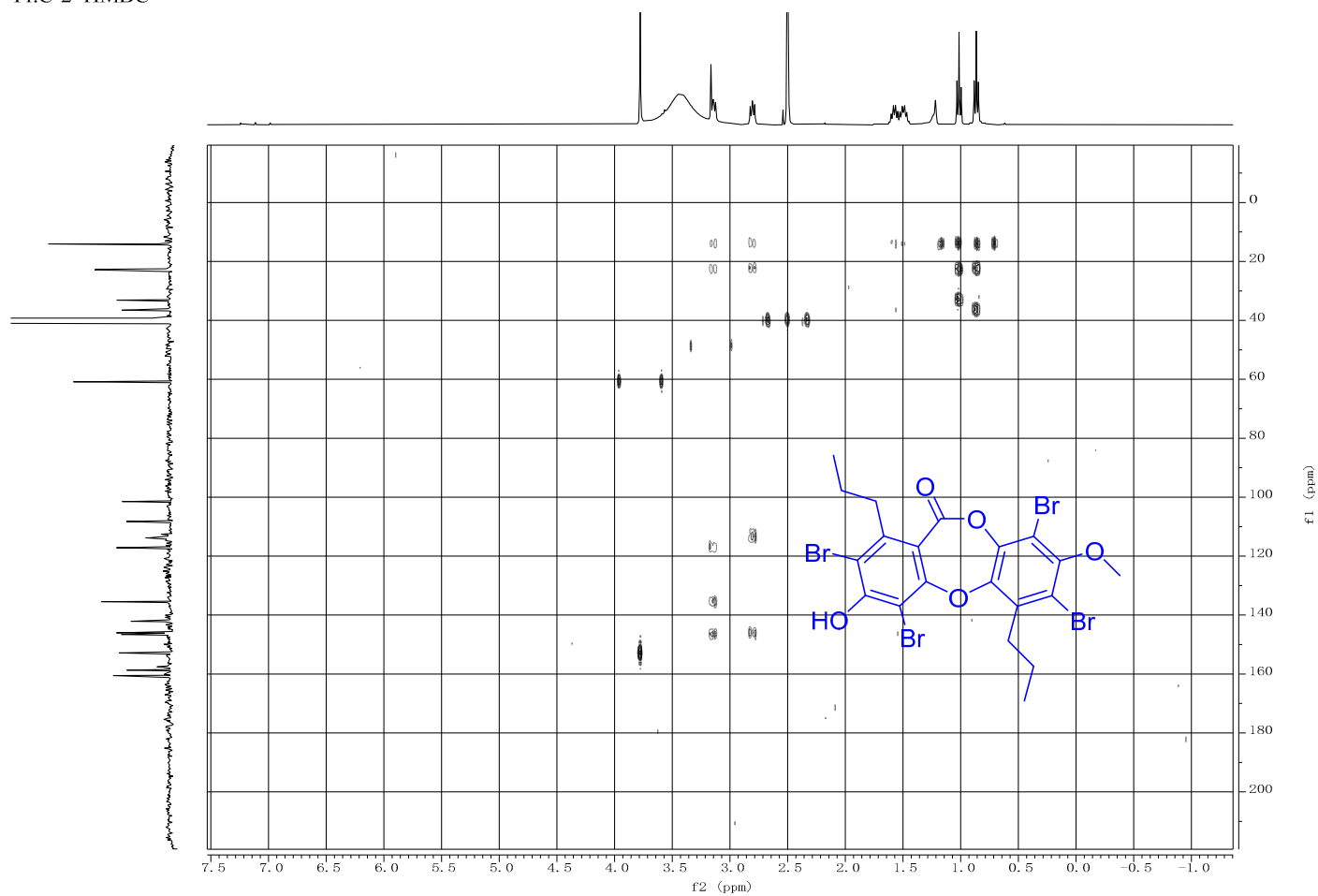


Figure S69. HMBC spectrum of **9** in DMSO-*d*₆

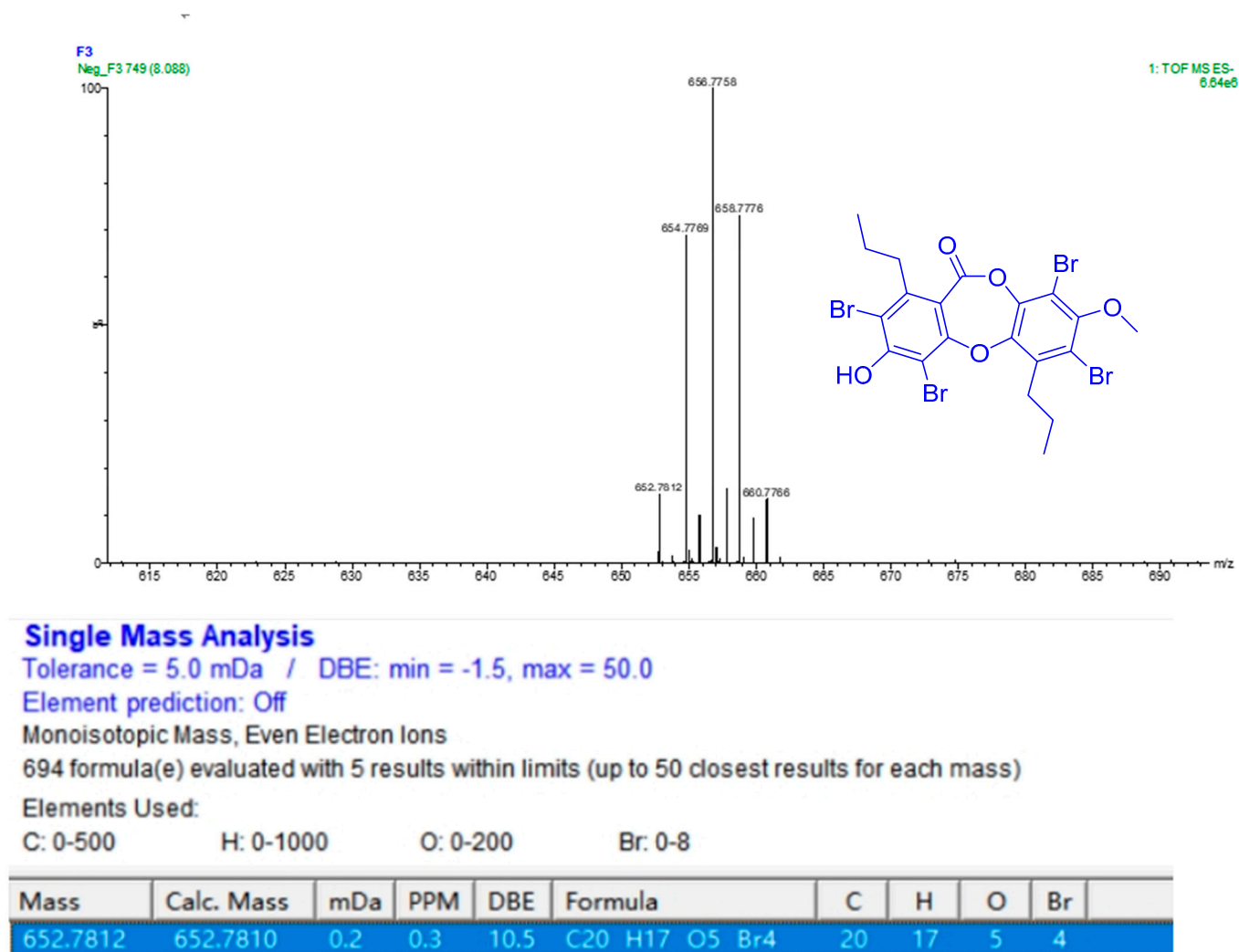


Figure S70. HRESIMS spectrum of **9**

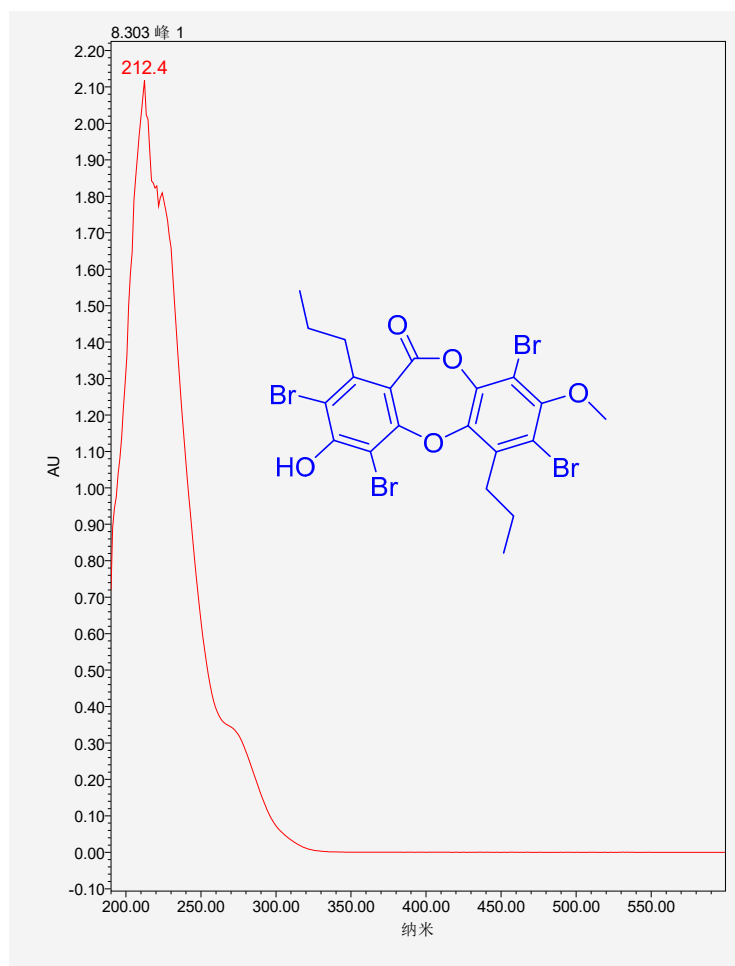


Figure S71. UV spectrum of **9**

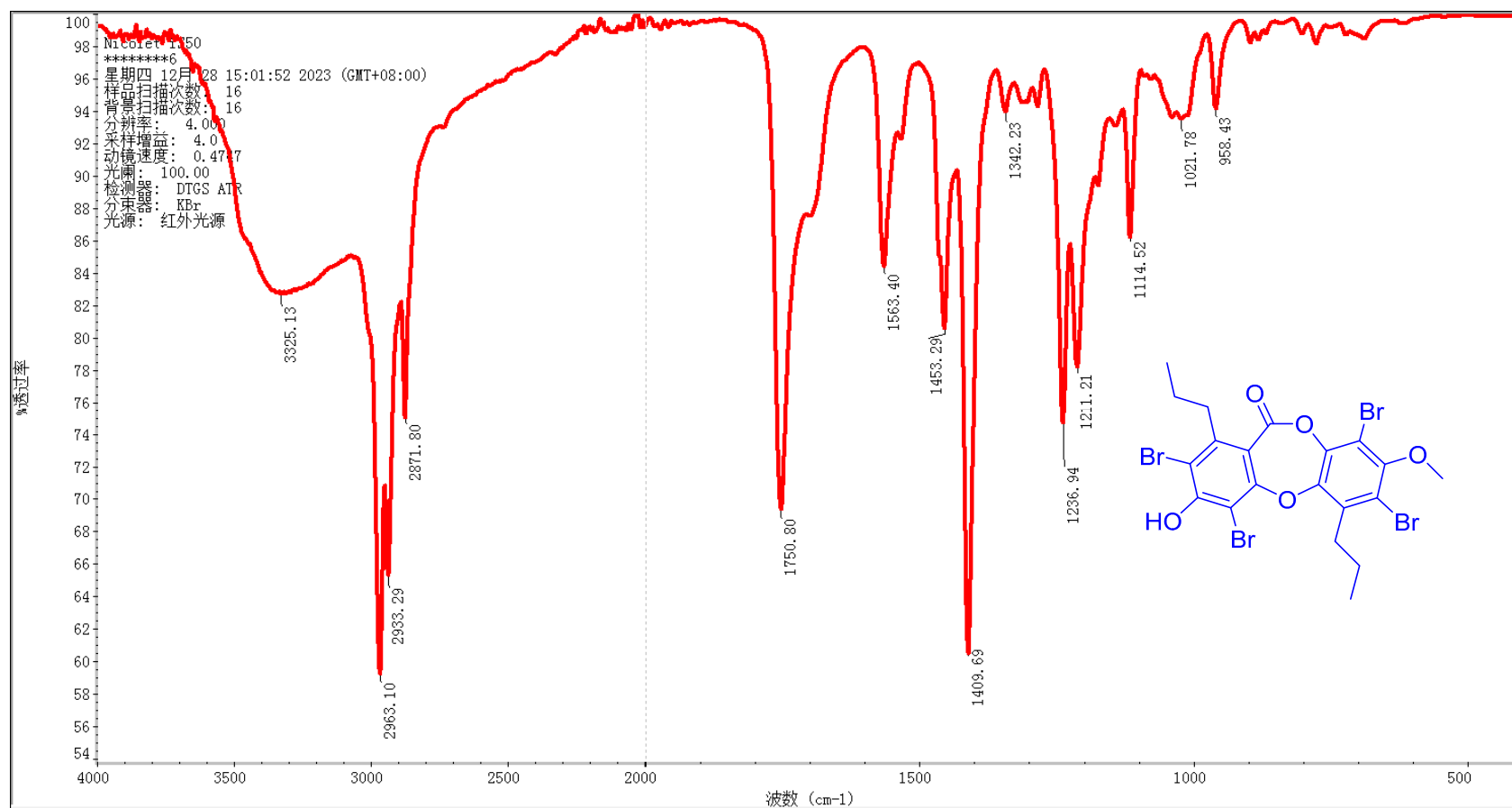


Figure S72. IR spectrum of **9**

Table S10. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 10

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.6, C		
2		157.6, C		
3		102.5, C		
4		157.6, C		
5		114.1, C		
6		144.6, C		
7		161.9, C		
8	2.79, m	36.1, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.53, m	23.0, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.90, t (7.2)	14.1, CH ₃	H ₂ -9	C-8, C-9
1'		150.1, C		
2'		136.5, C		
3'		135.2, C		
4'		110.8, C		
5'		153.9, C		
6'	7.07, s	103.6, C		C-1', C-2', C-4', C-5'
7'	2.81, m	32.3, CH ₂	H ₂ -8'	C-2', C-3', C-4', C-8', C-9'
8'	1.50, m	22.1, CH ₂	H ₂ -7', H ₃ -9'	C-3', C-7', C-9'
9'	0.90, t (7.2)	14.4, CH ₃	H ₂ -8'	C-7', C-8'
MeO	3.85, s	57.3, CH ₃		C-5'

M-16-5 500 MHz DMSO

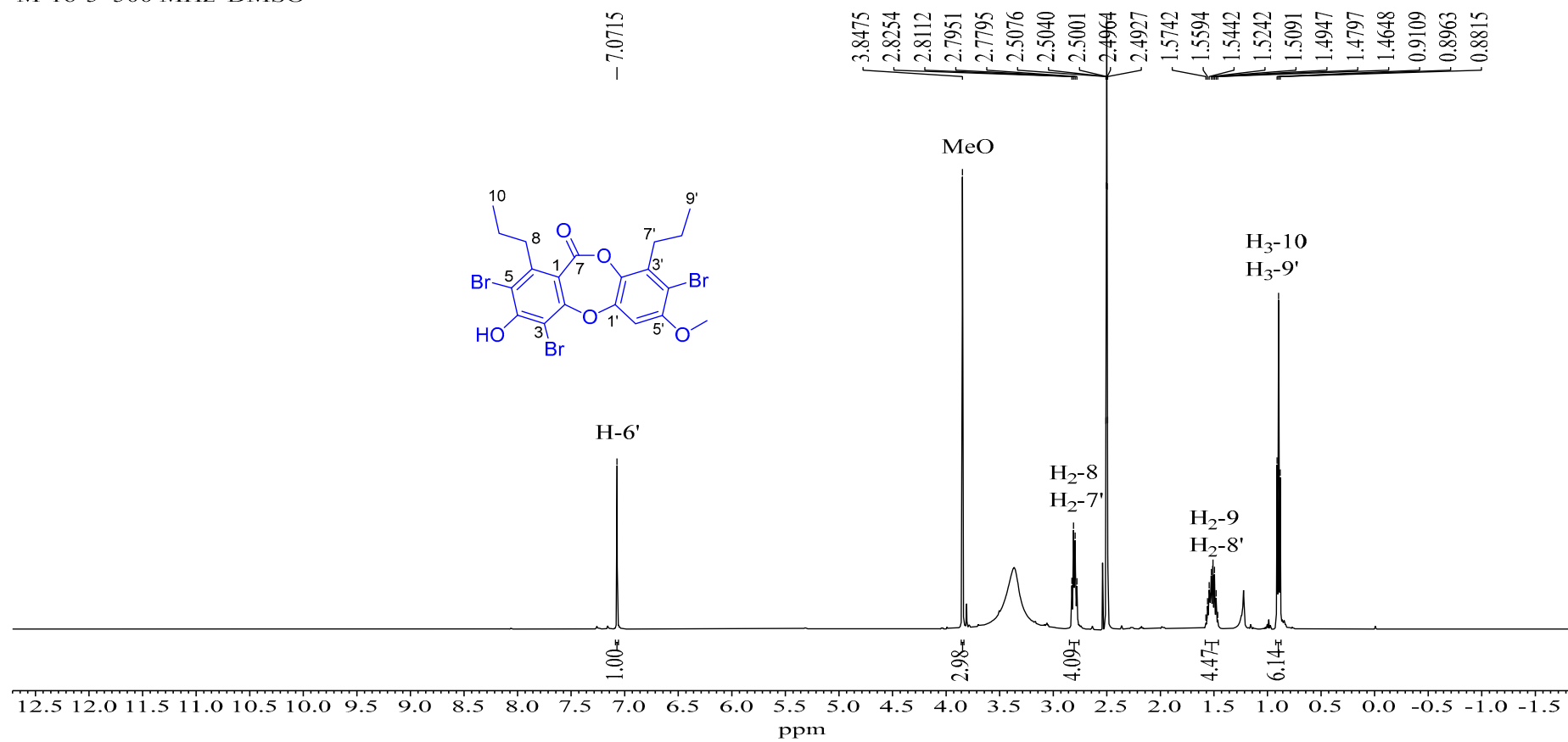


Figure S73. ¹H-NMR spectrum of **10** in DMSO-*d*₆ (500 MHz)

M-16-5 C

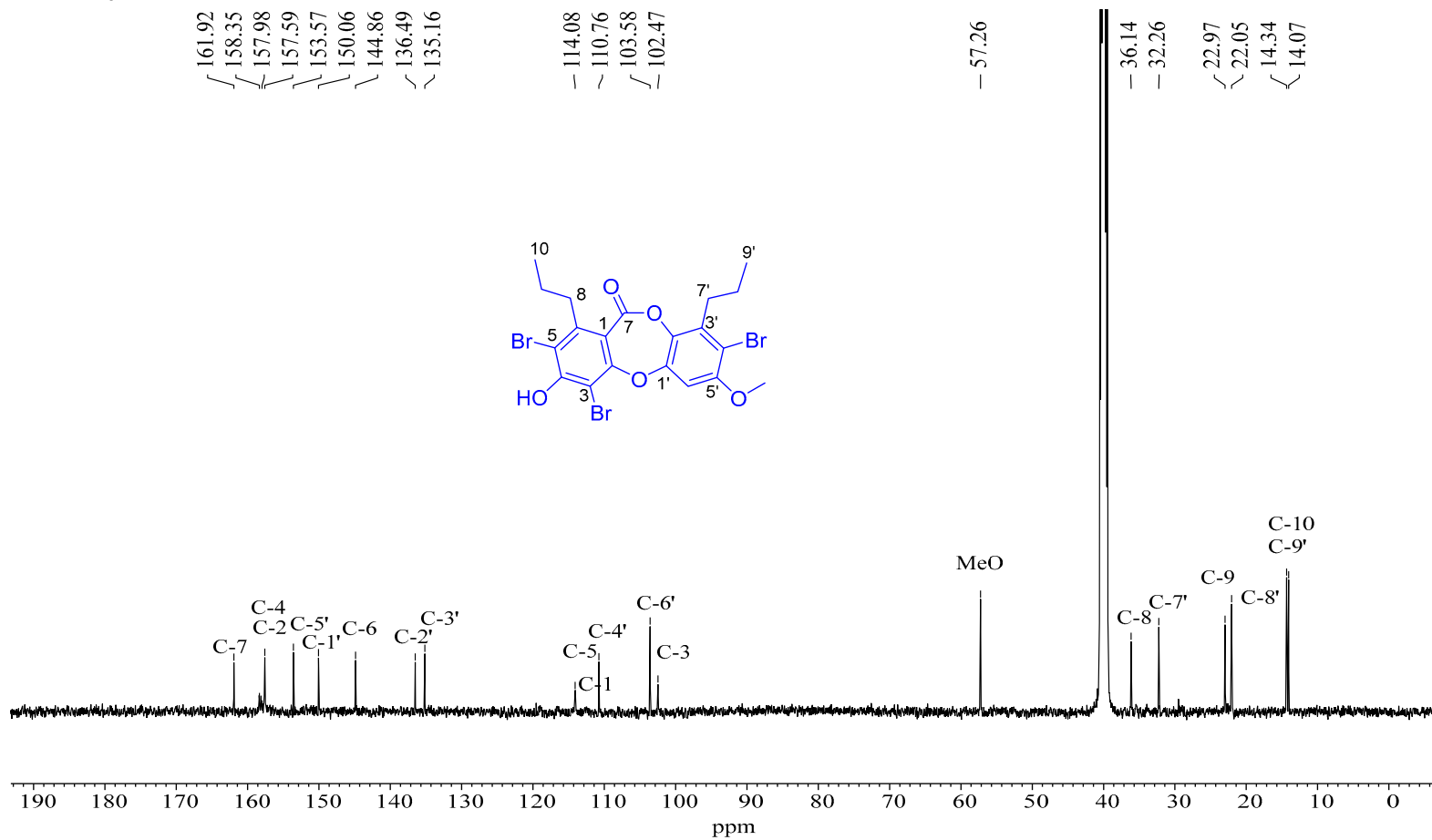


Figure S74. ^{13}C -NMR spectrum of **10** in $\text{DMSO}-d_6$ (125 MHz)

M-16-5 HSQC

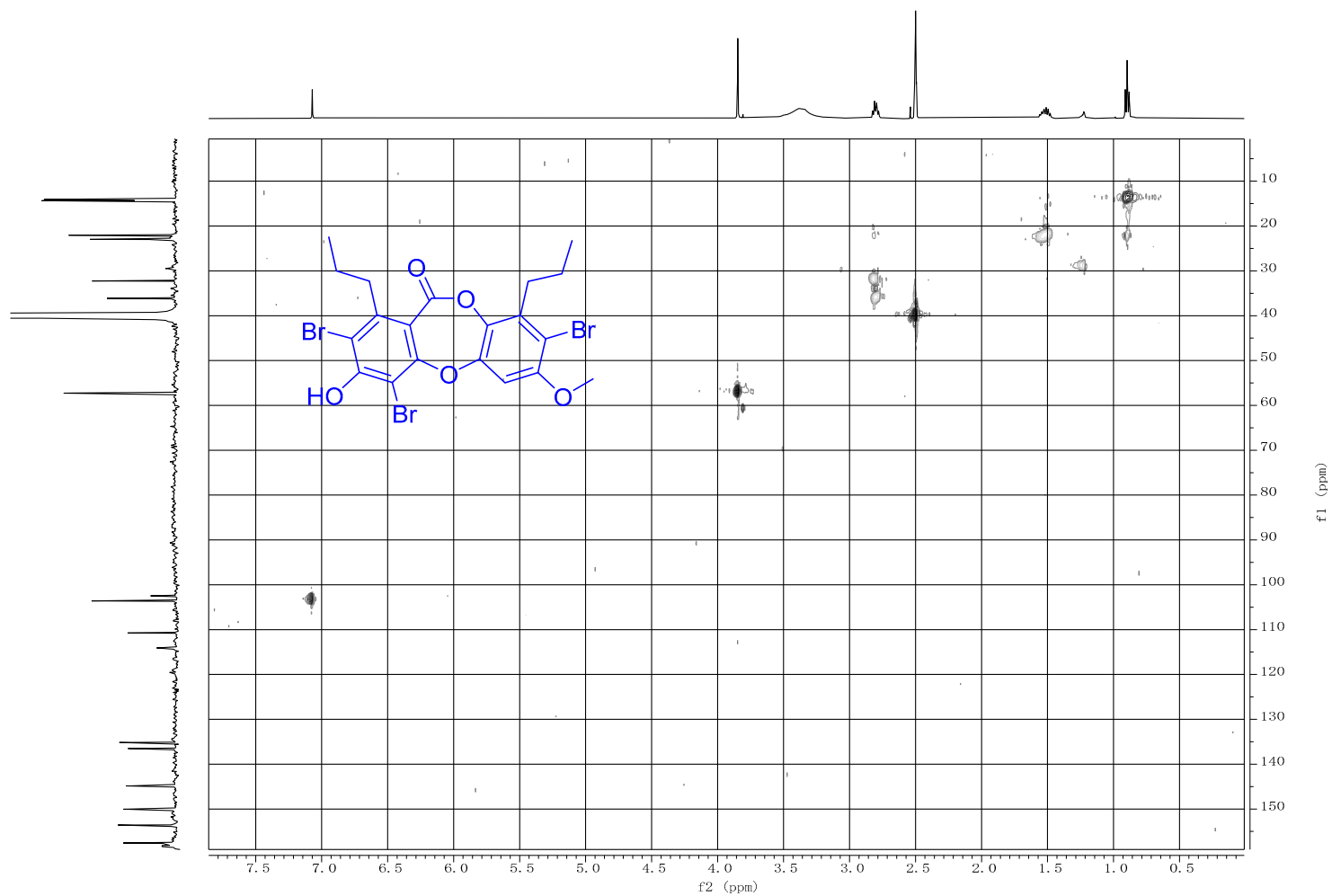


Figure S75. HSQC spectrum of **10** in DMSO-*d*₆

M-16-5 COSY

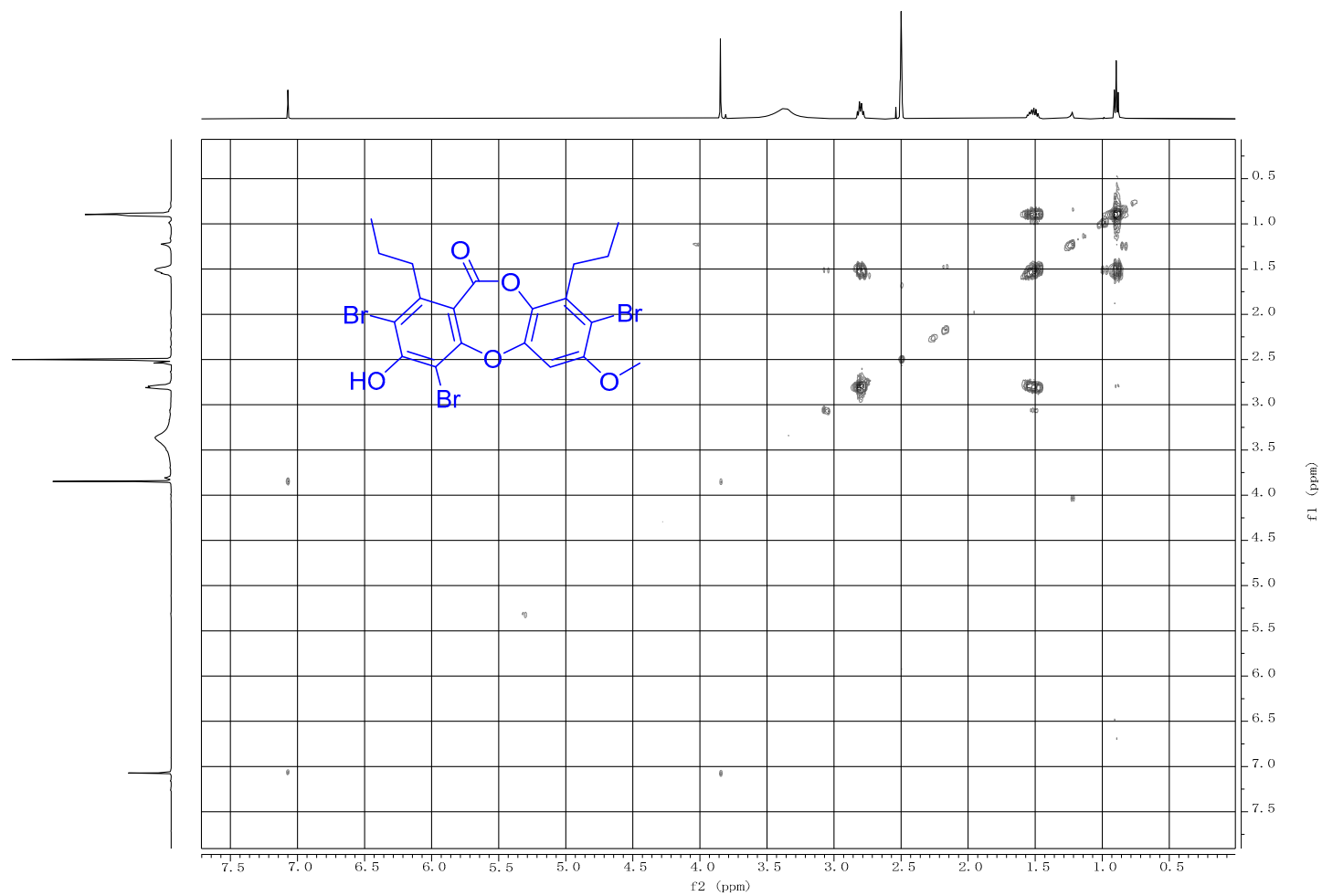


Figure S76. ^1H - ^1H COSY spectrum of **10** in $\text{DMSO}-d_6$

M-16-5 HMBC

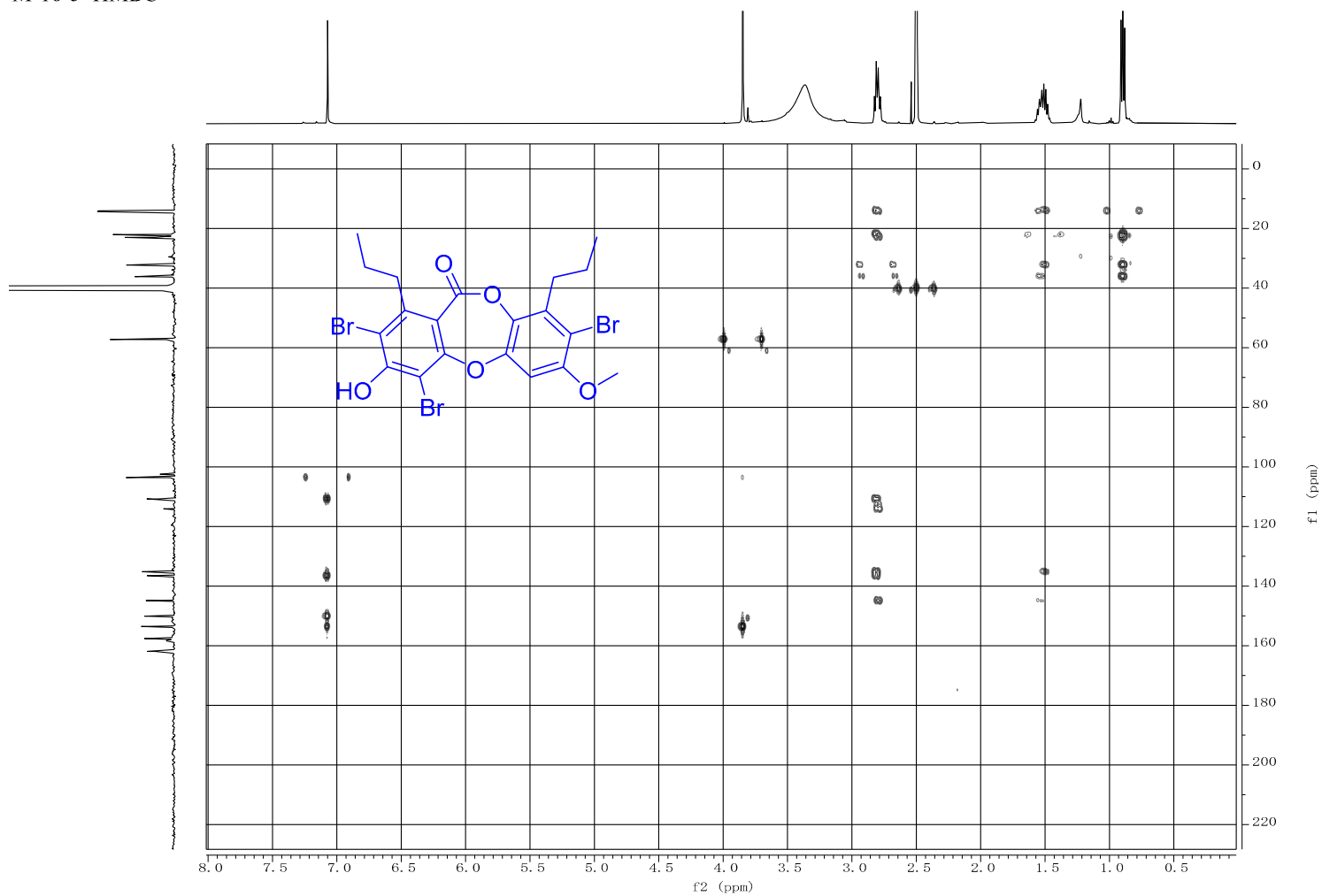


Figure S77. HMBC spectrum of **10** in DMSO-*d*₆

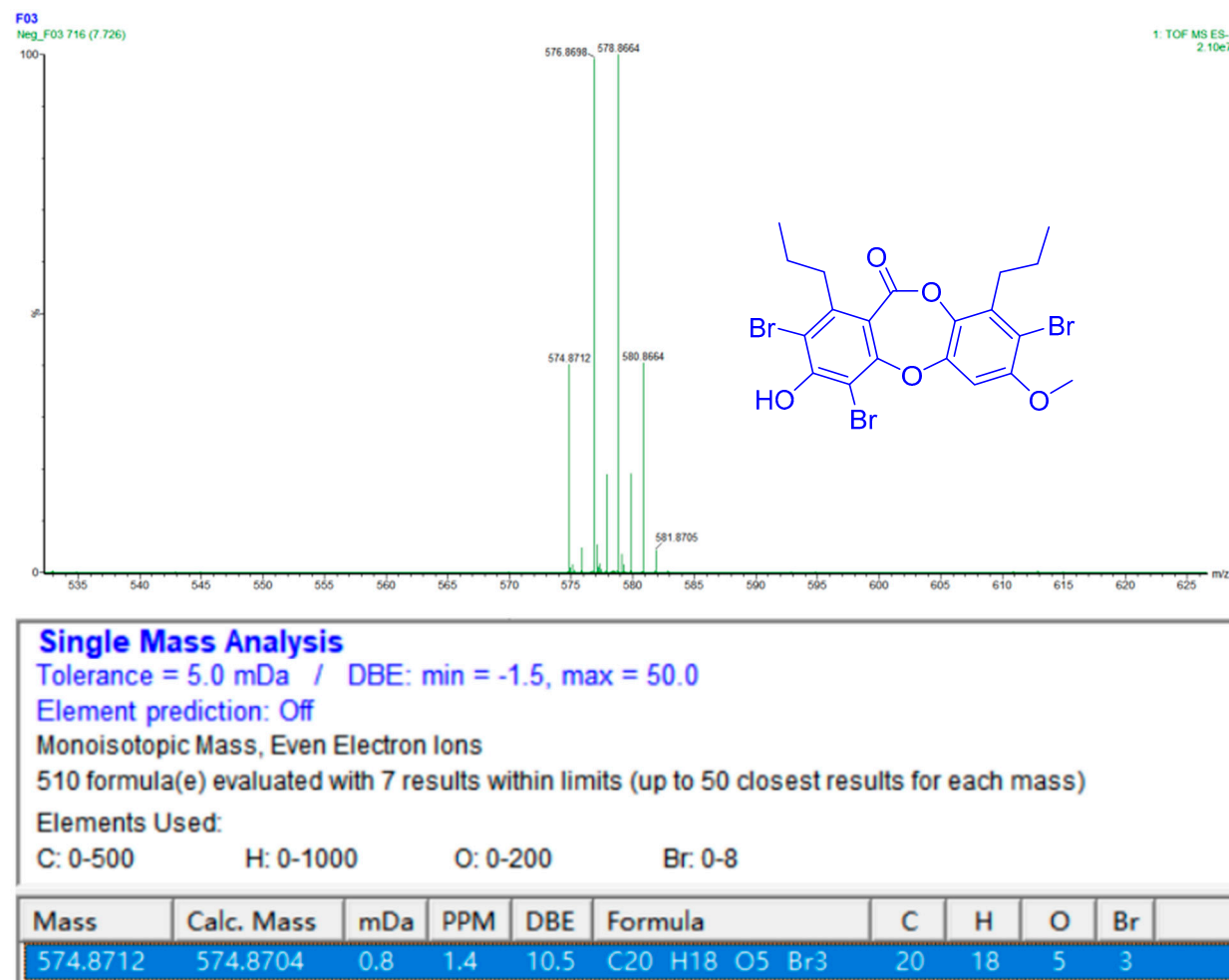


Figure S78. HRESIMS spectrum of **10**

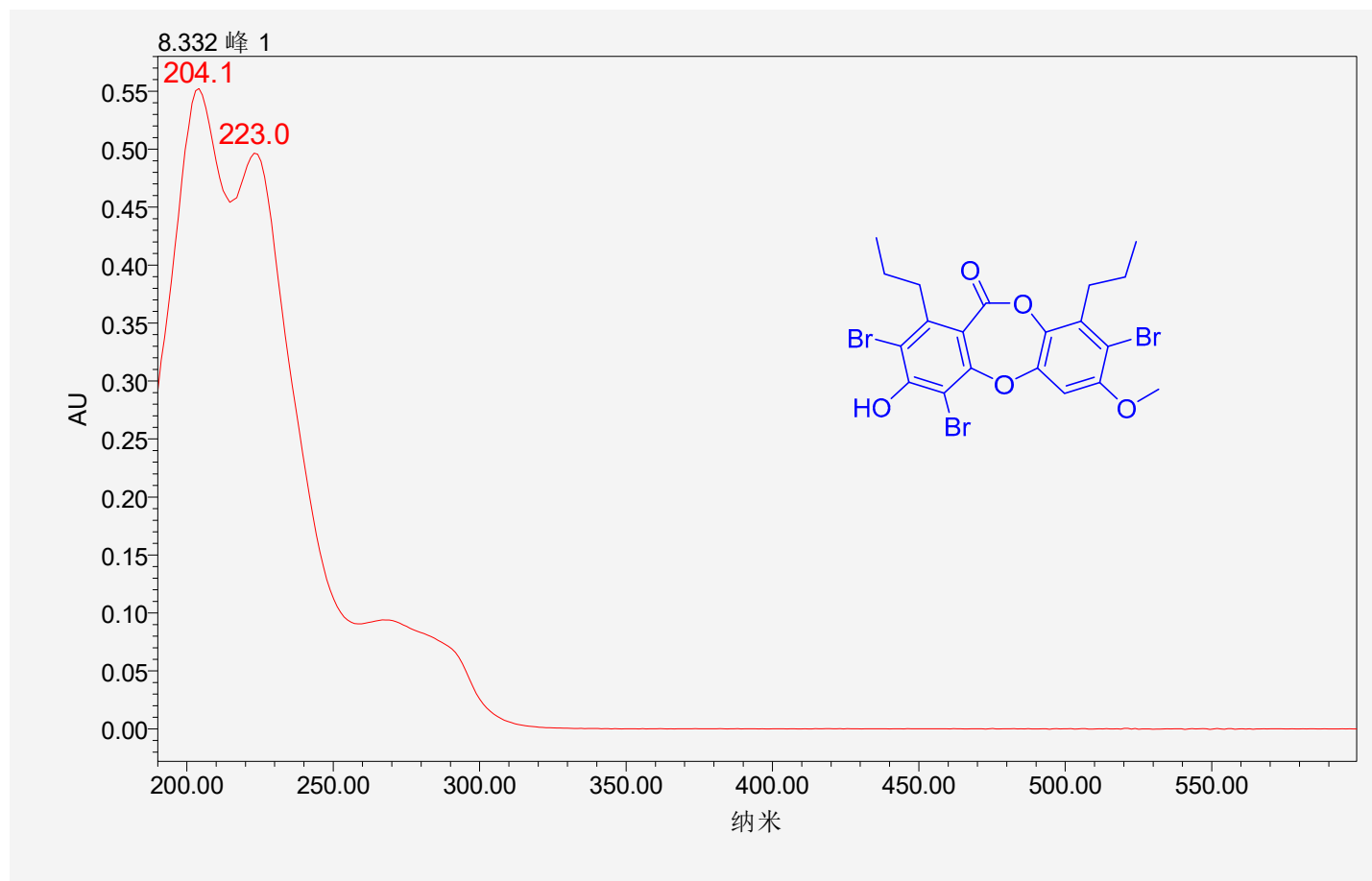


Figure S79. UV spectrum of **10**

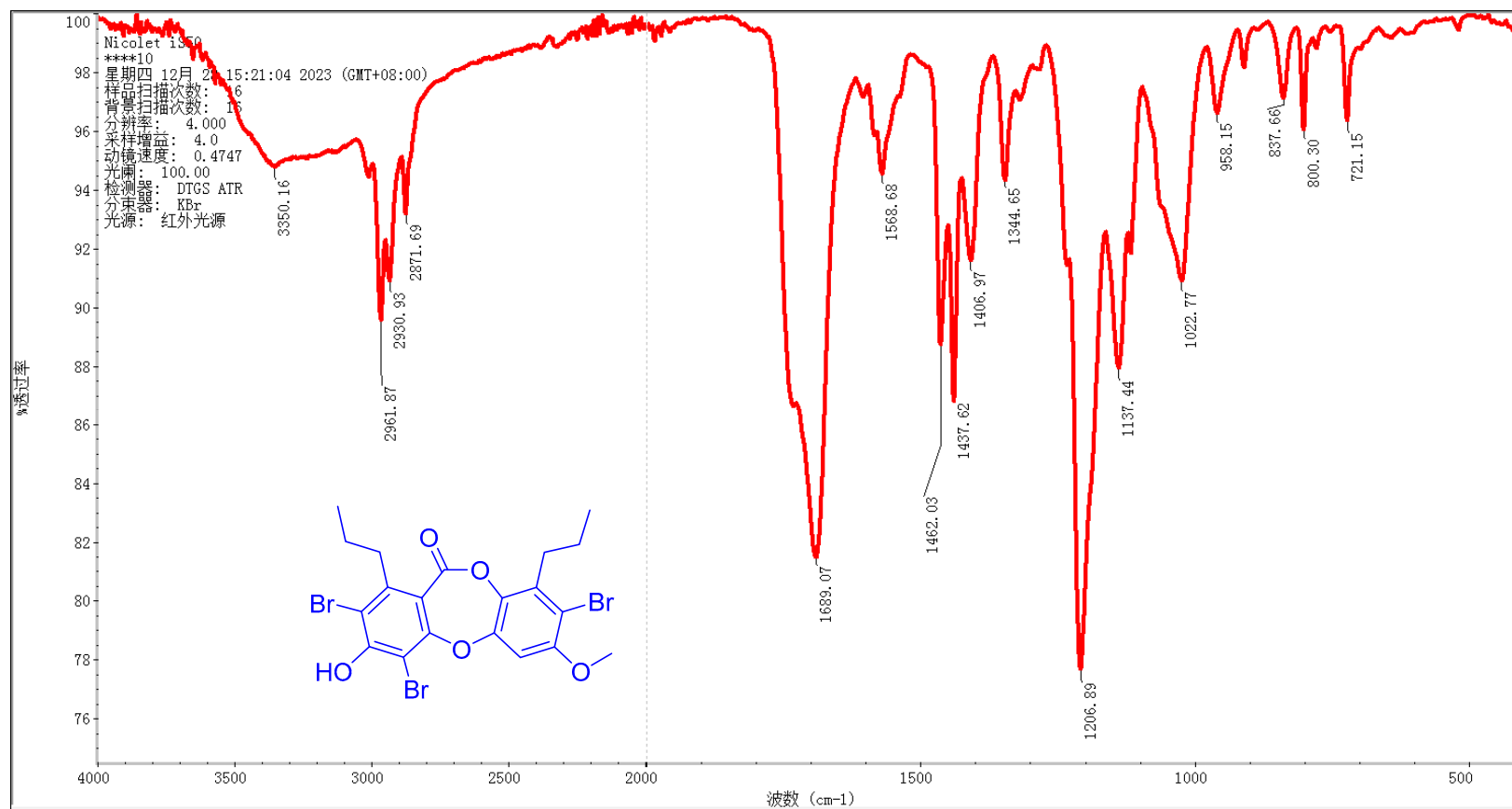


Figure S80. IR spectrum of 10

Table S11. ¹H and ¹³C NMR data and key COSY and HMBC correlations of 11

No.	δ_{H}	δ_{C}	COSY	HMBC
1		112.2, C		
2		158.9, C		
3		102.2, C		
4		151.1, C		
5		116.2, C		
6		145.7, C		
7		161.6, C		
8	2.72, t (8.0)	36.9, CH ₂	H ₂ -9	C-1, C-5, C-6, C-9, C-10
9	1.56, m	23.0, CH ₂	H ₂ -8, H ₃ -10	C-6, C-8, C-10
10	0.87, t (7.2)	14.5, CH ₃	H ₂ -9	C-8, C-9
1'		149.1, C		
2'		141.9, C		
3'		134.0, C		
4'		117.5, C		
5'		152.0, C		
6'		108.3, C		
7'	2.83, t (7.5)	32.5, CH ₂	H ₂ -8'	C-2', C-3', C-4', C-8', C-9'
8'	1.54, m	22.0, CH ₂	H ₂ -7', H ₃ -9'	C-3', C-7', C-9'
9'	0.92, t (7.2)	14.0, CH ₃	H ₂ -8'	C-7', C-8'
MeO	3.78, s	60.8, CH ₃		C-5'

Fr.C-3 600 MHz DMSO

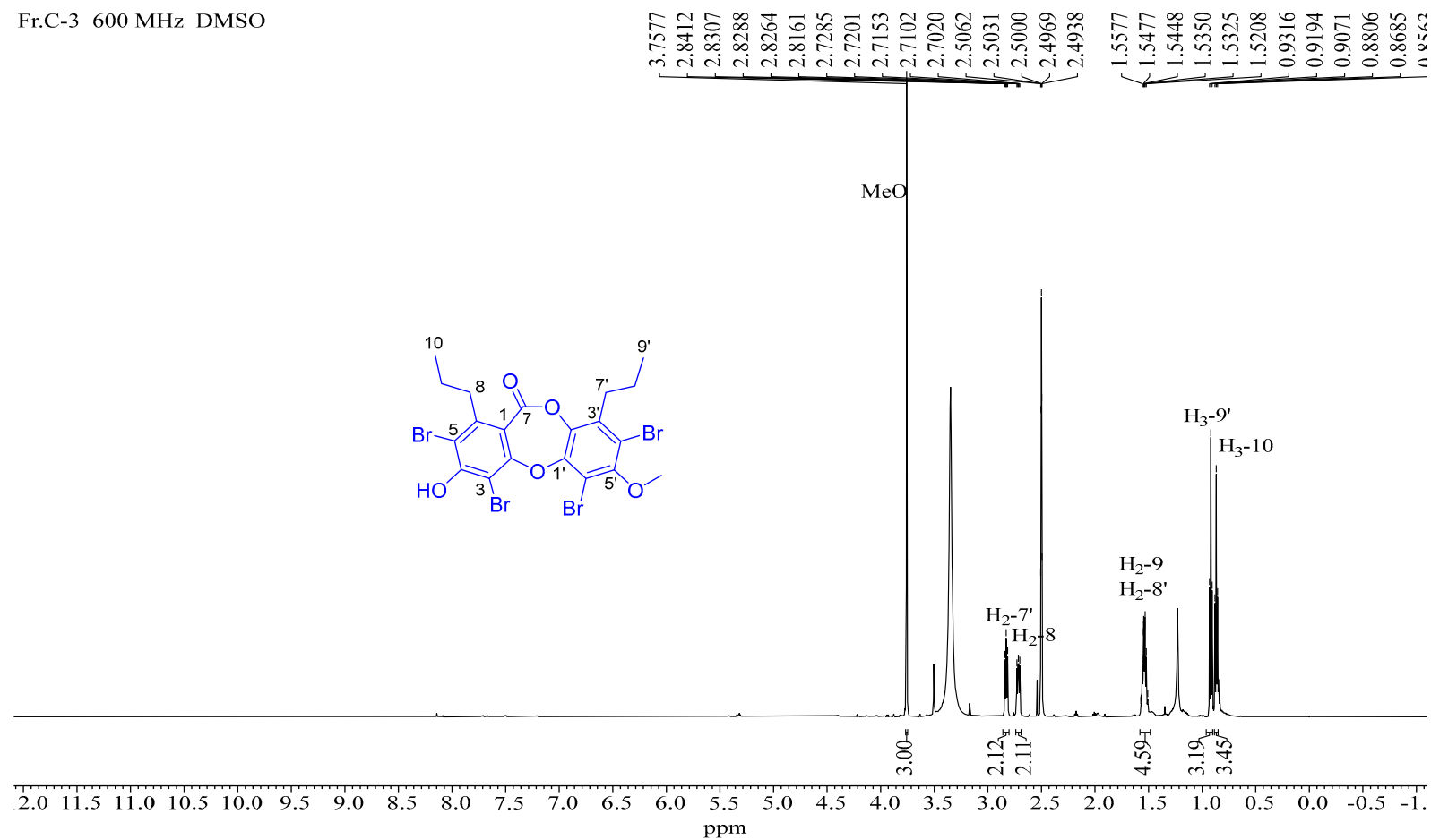


Figure S81. ^1H -NMR spectrum of **11** in DMSO- d_6 (600 MHz)

Fr.C-3 C

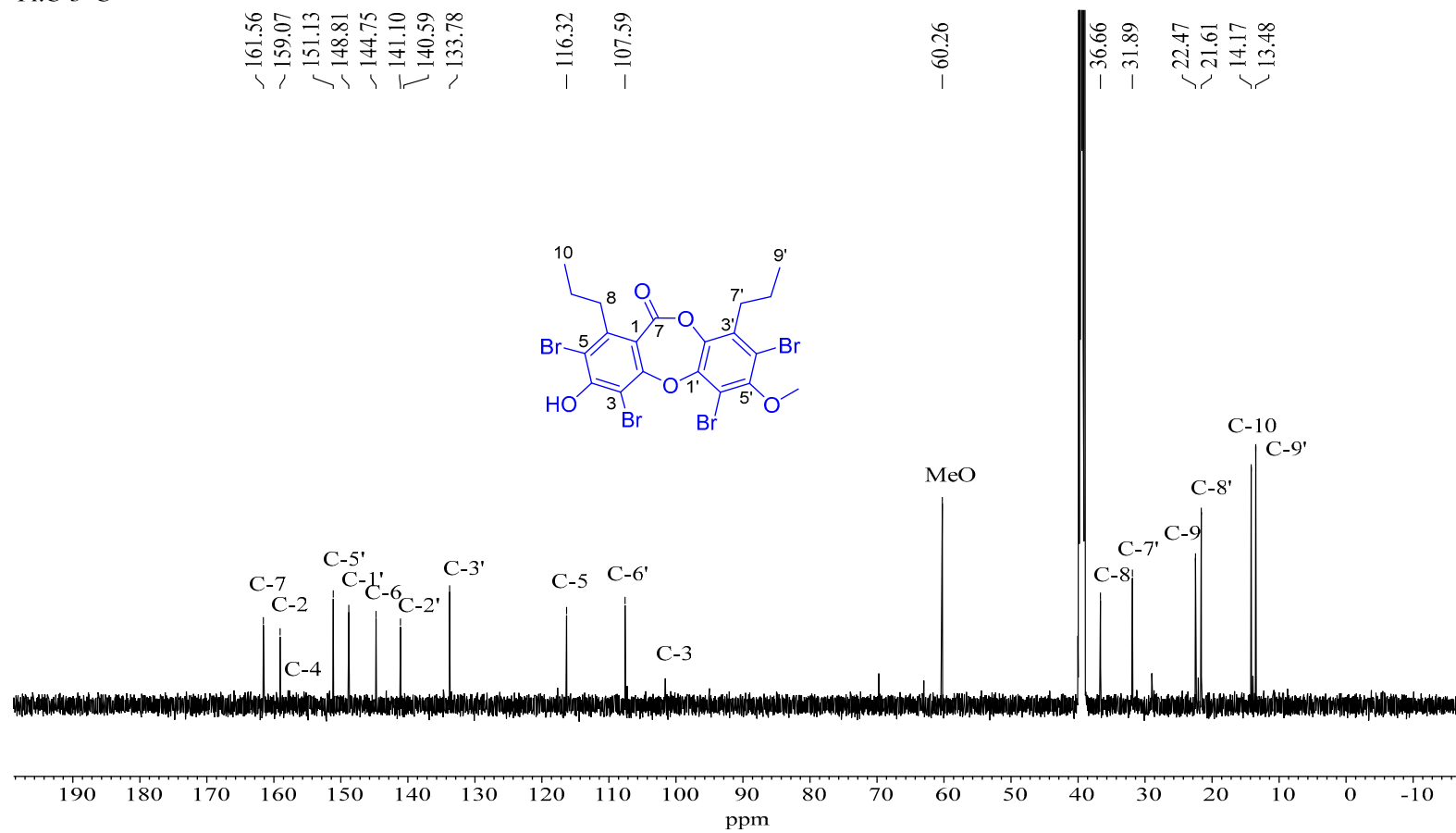


Figure S82. ^{13}C -NMR spectrum of **11** in $\text{DMSO}-d_6$ (150 MHz)

Fr.C-3 HSQC

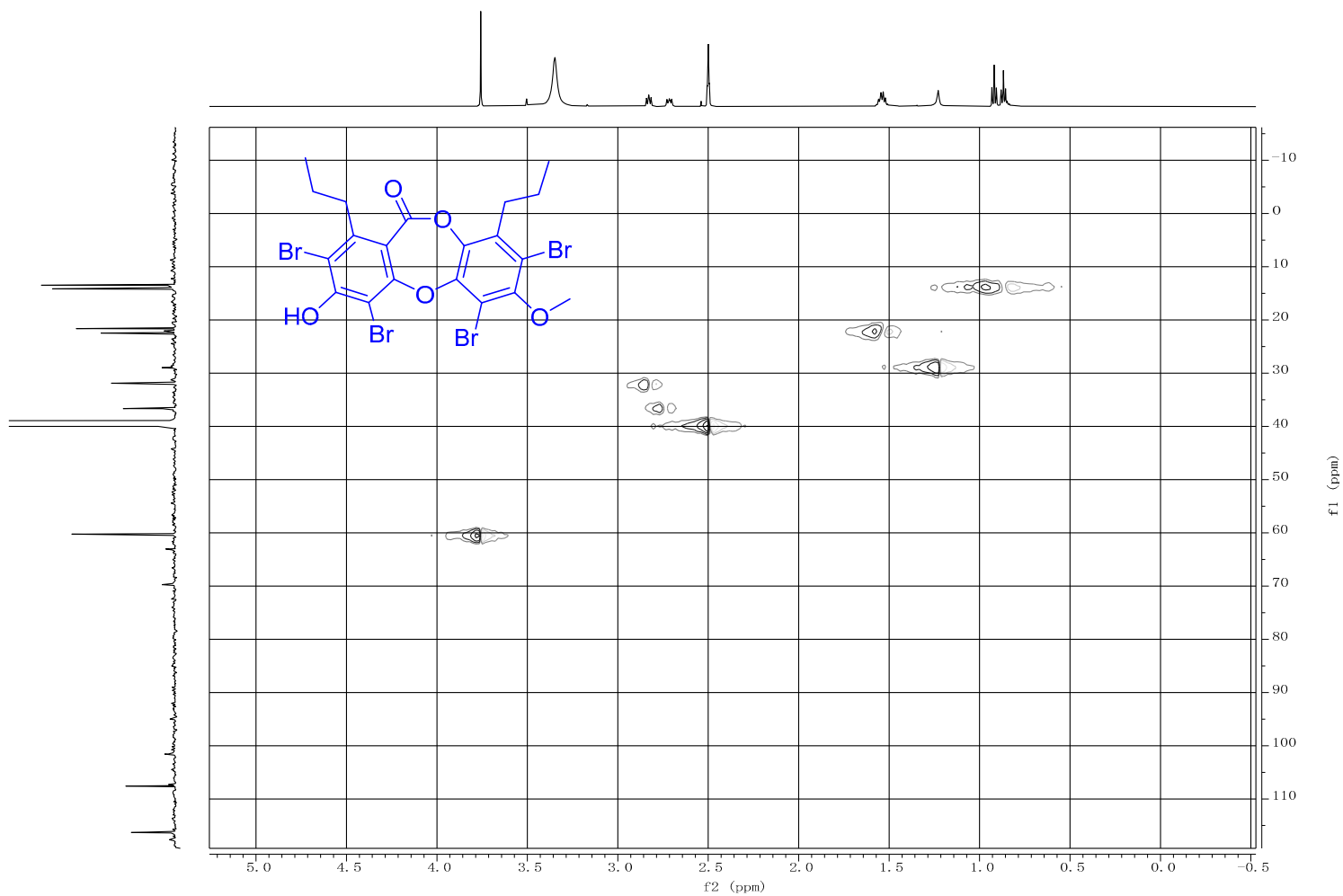


Figure S83. HSQC spectrum of **11** in DMSO-*d*₆

Fr.C-3 COSY

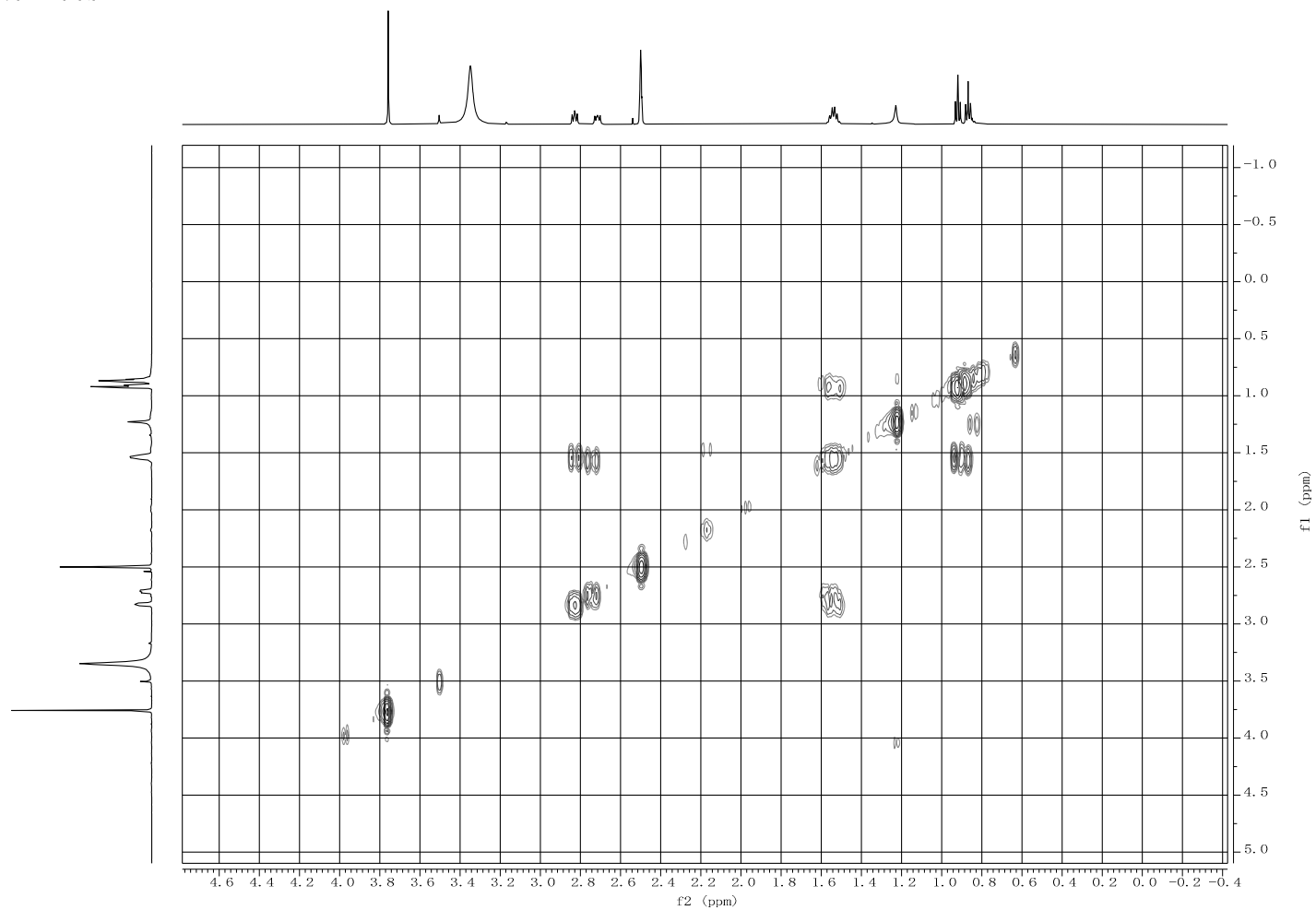


Figure S84. ^1H - ^1H COSY spectrum of **11** in $\text{DMSO-}d_6$

Fr.C-3 HMBC

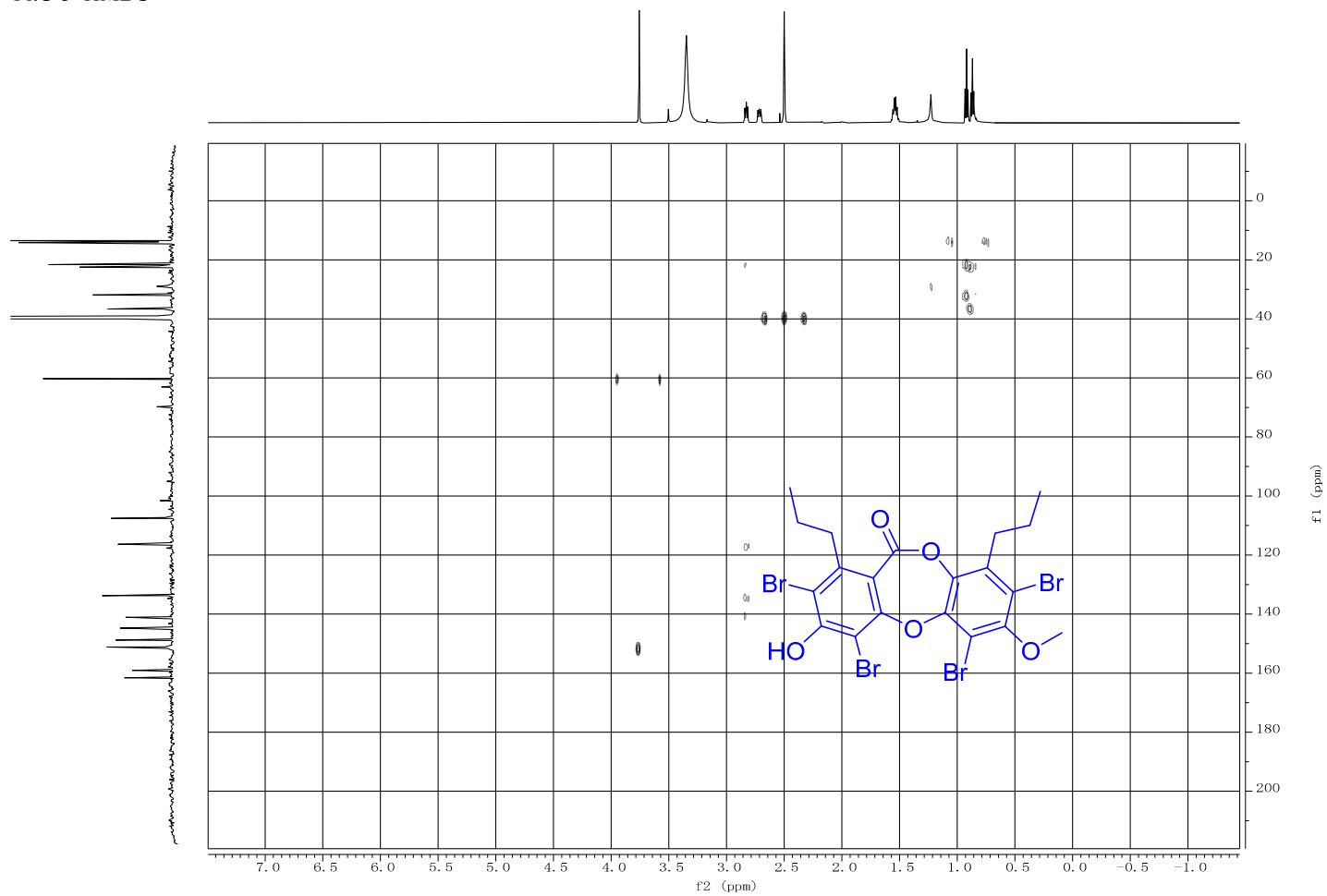


Figure S85. HMBC spectrum of **11** in DMSO-*d*₆

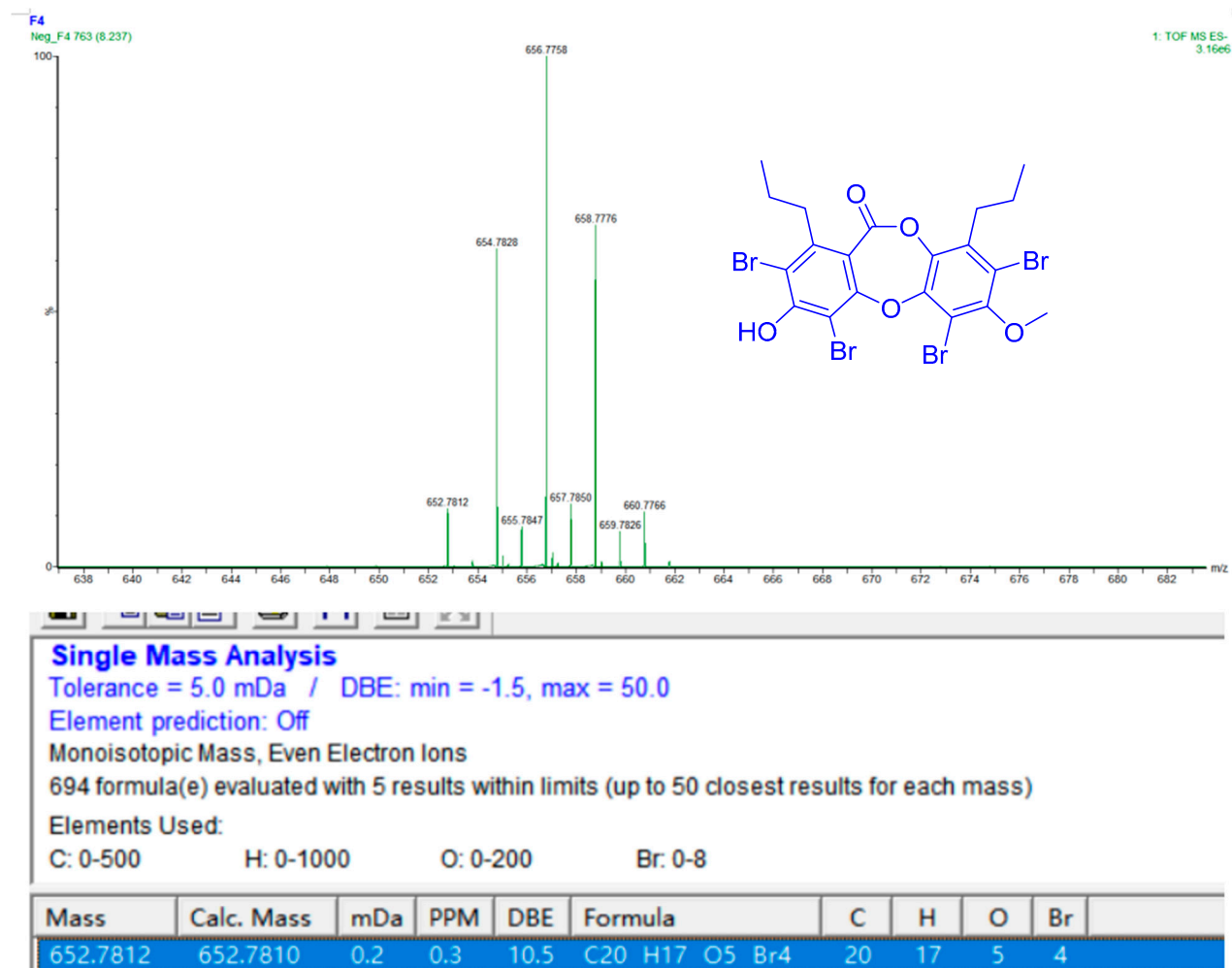


Figure S86. HRESIMS spectrum of **11**

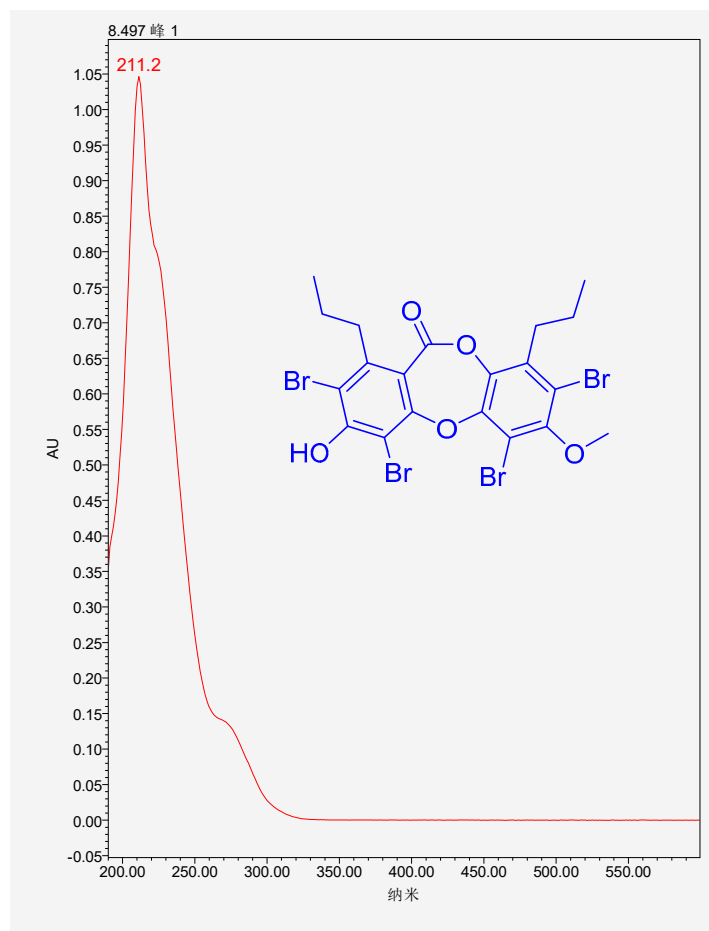


Figure S87. UV spectrum of **11**

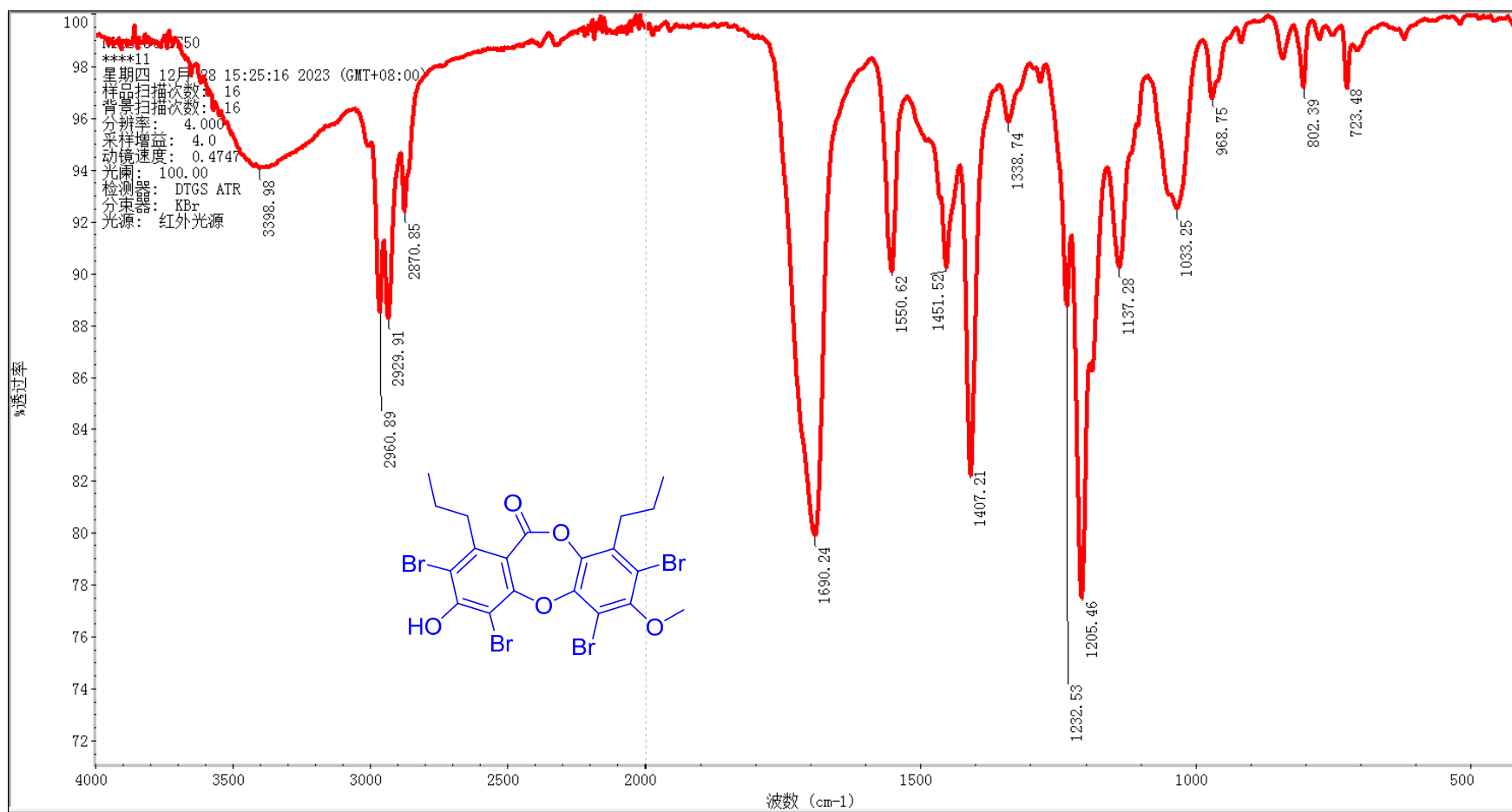


Figure S88. IR spectrum of 11

N-3-4 500 MHz DMSO

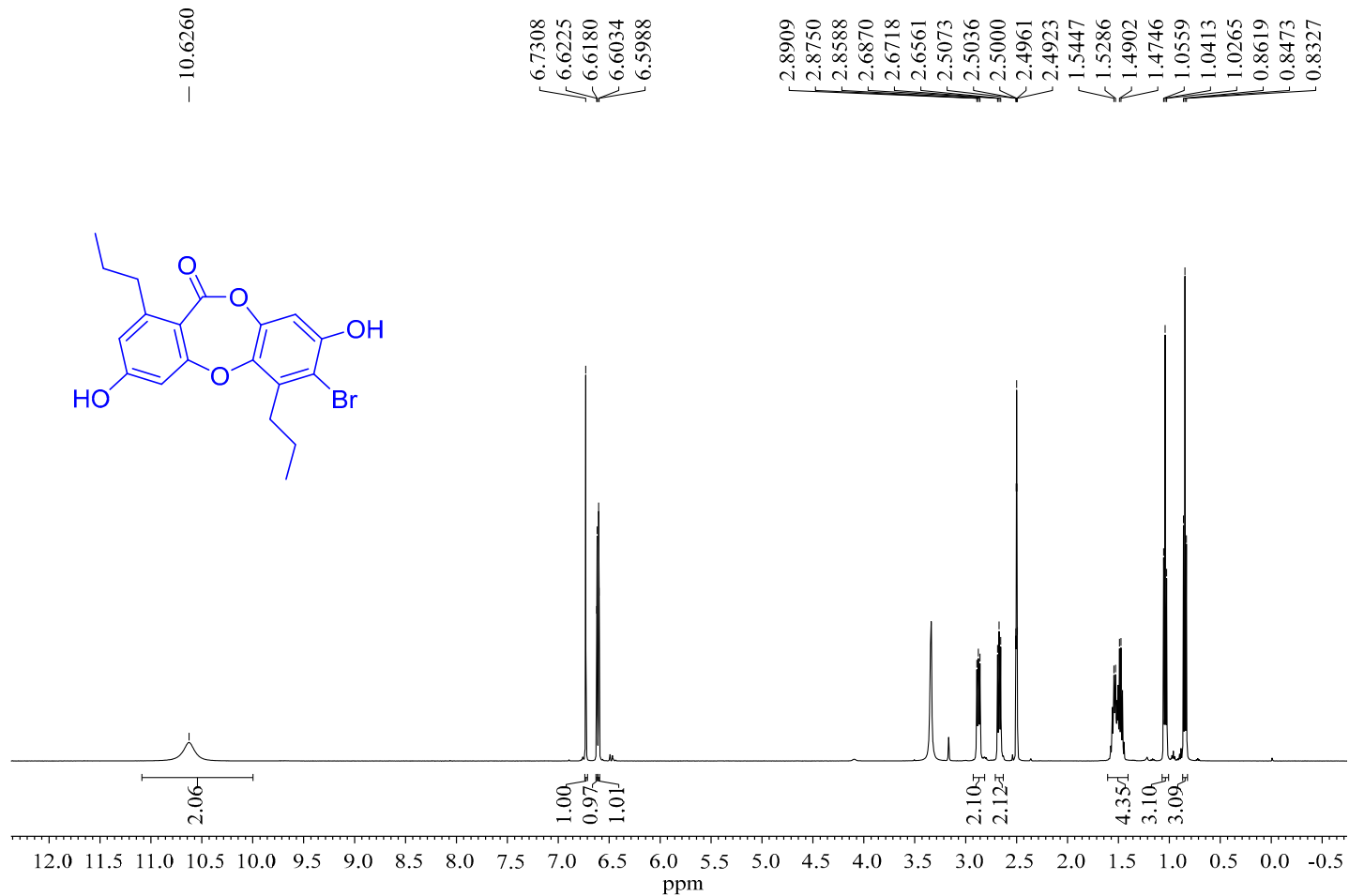


Figure S89. ^1H -NMR spectrum of **12** in $\text{DMSO-}d_6$ (500 MHz)

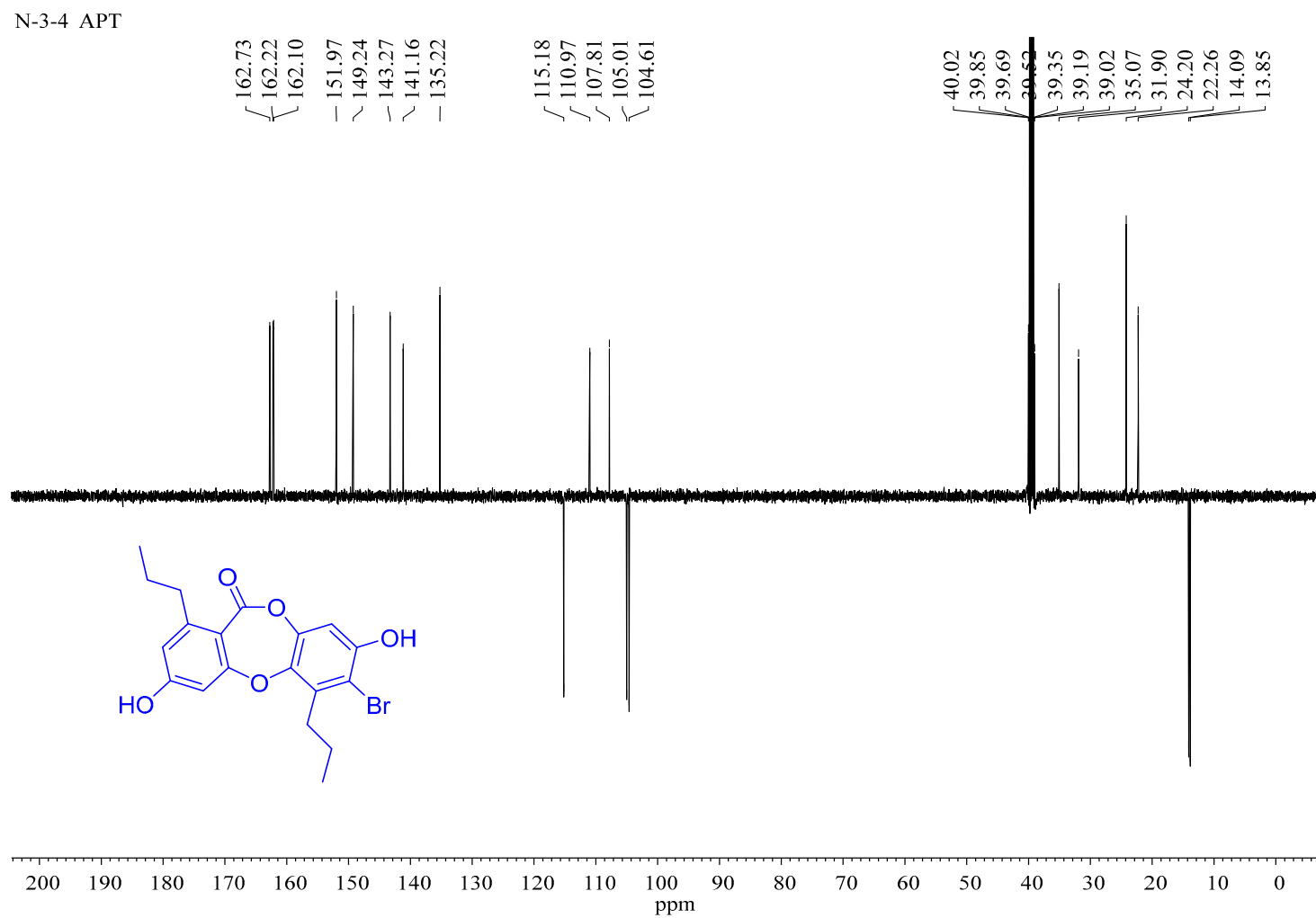


Figure S90. APT spectrum of **12** in DMSO-*d*₆ (125 MHz)

N-3-4 HSQC

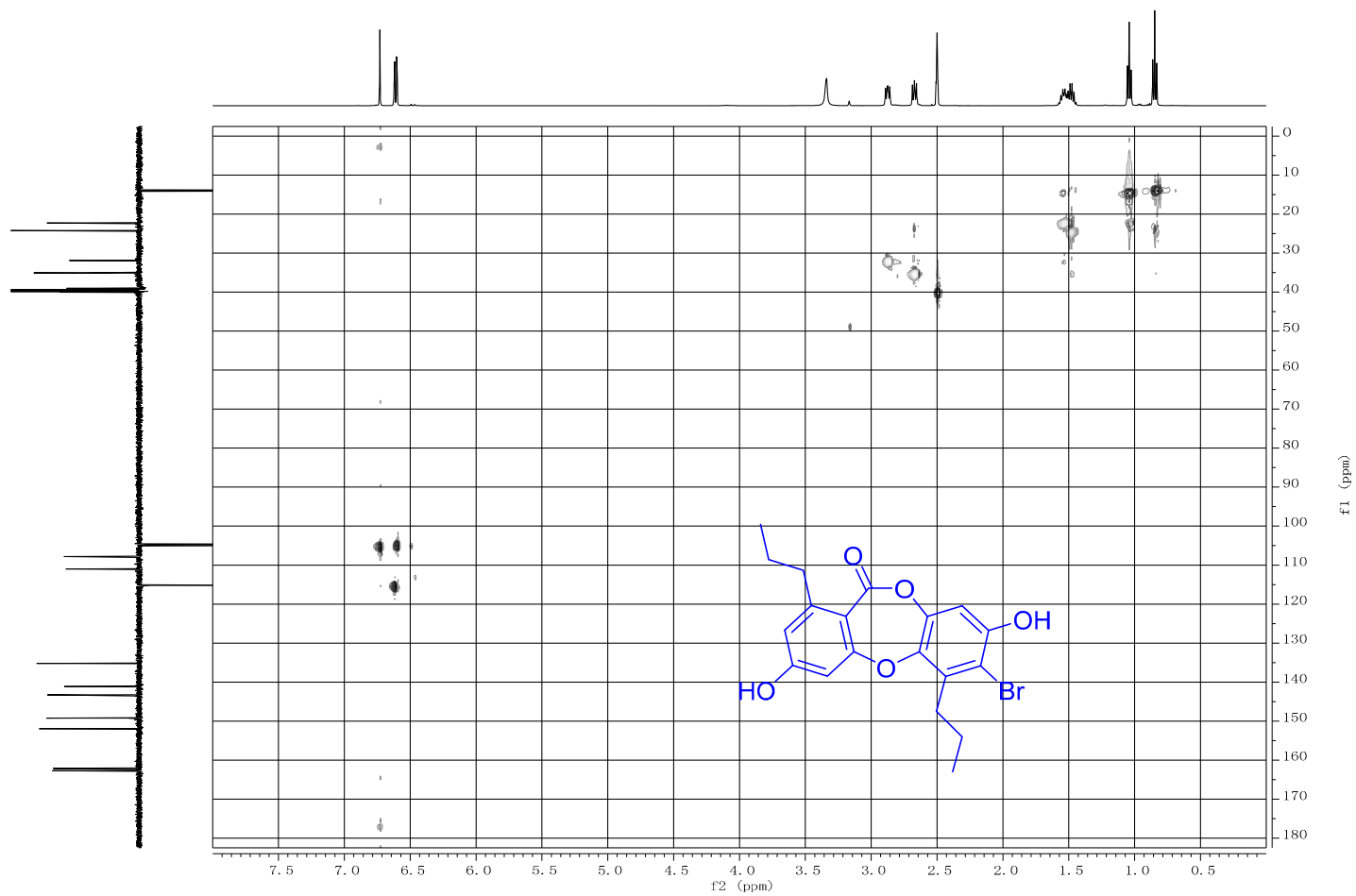


Figure S91. HSQC spectrum of **12** in DMSO-*d*₆

N-3-4 COSY

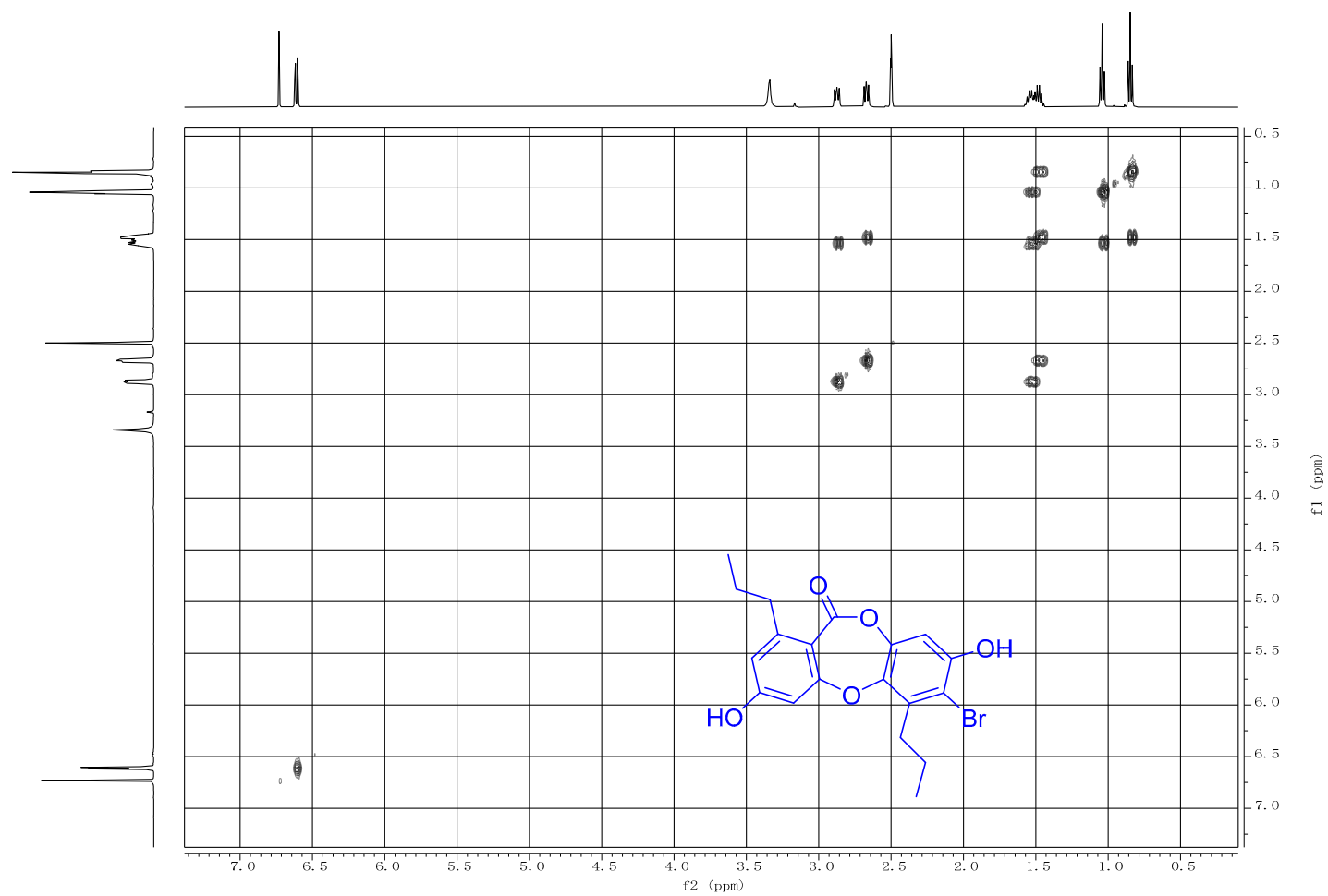


Figure S92. ^1H - ^1H COSY spectrum of **12** in $\text{DMSO-}d_6$

N-3-4 HMBC

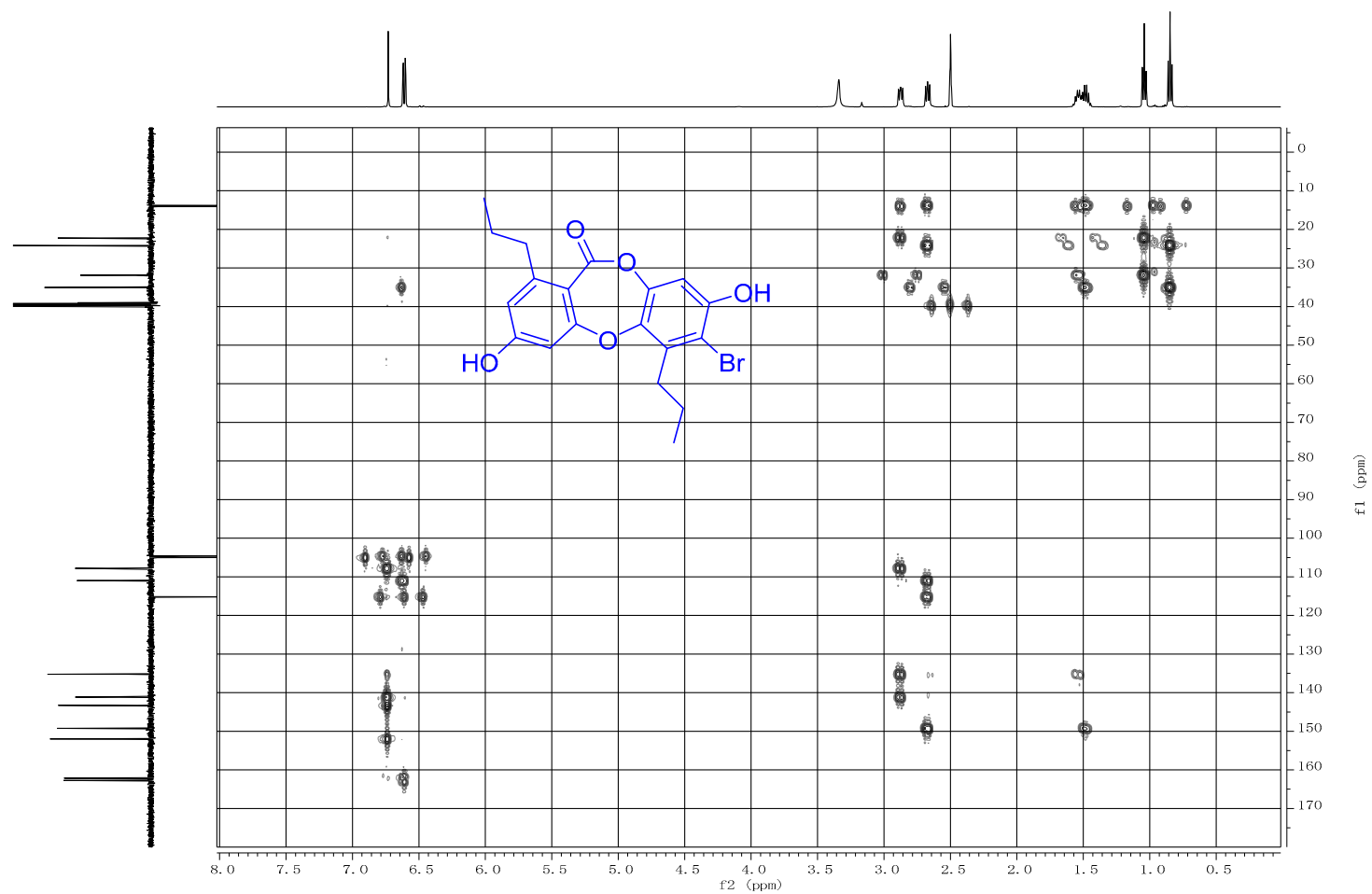


Figure S93. HMBC spectrum of **12** in DMSO-*d*₆

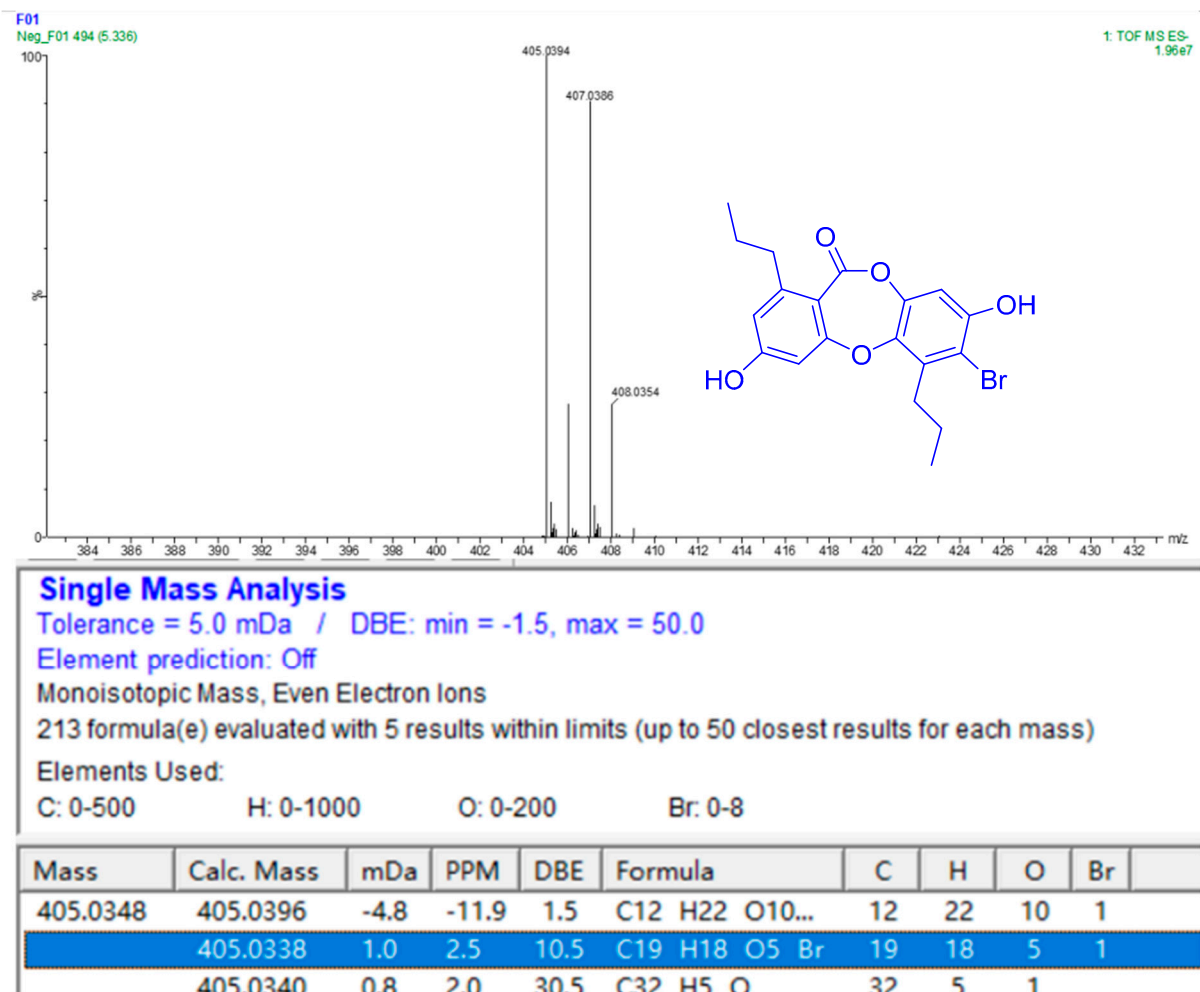


Figure S94. HRESIMS spectrum of 12

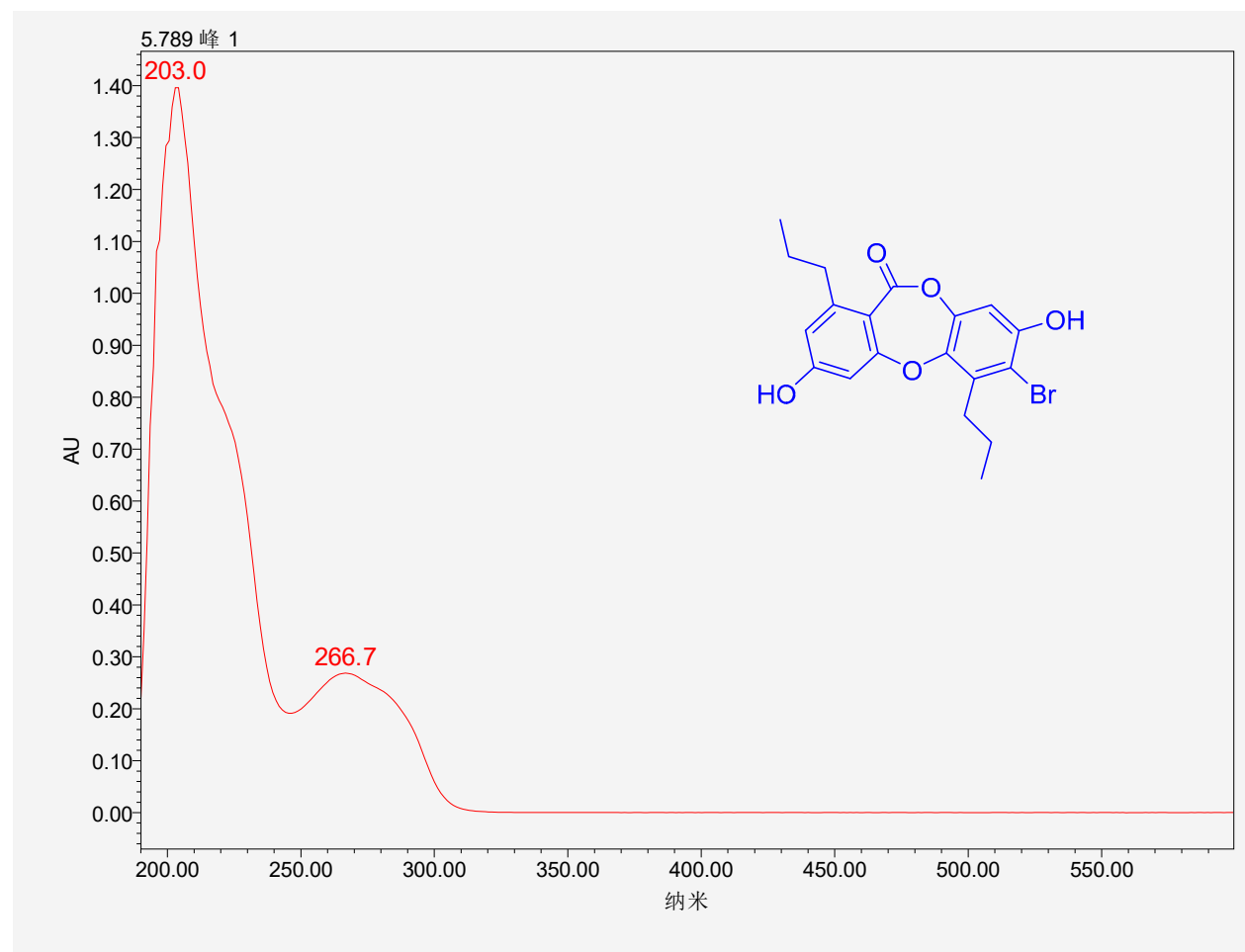


Figure S95. UV spectrum of **12**

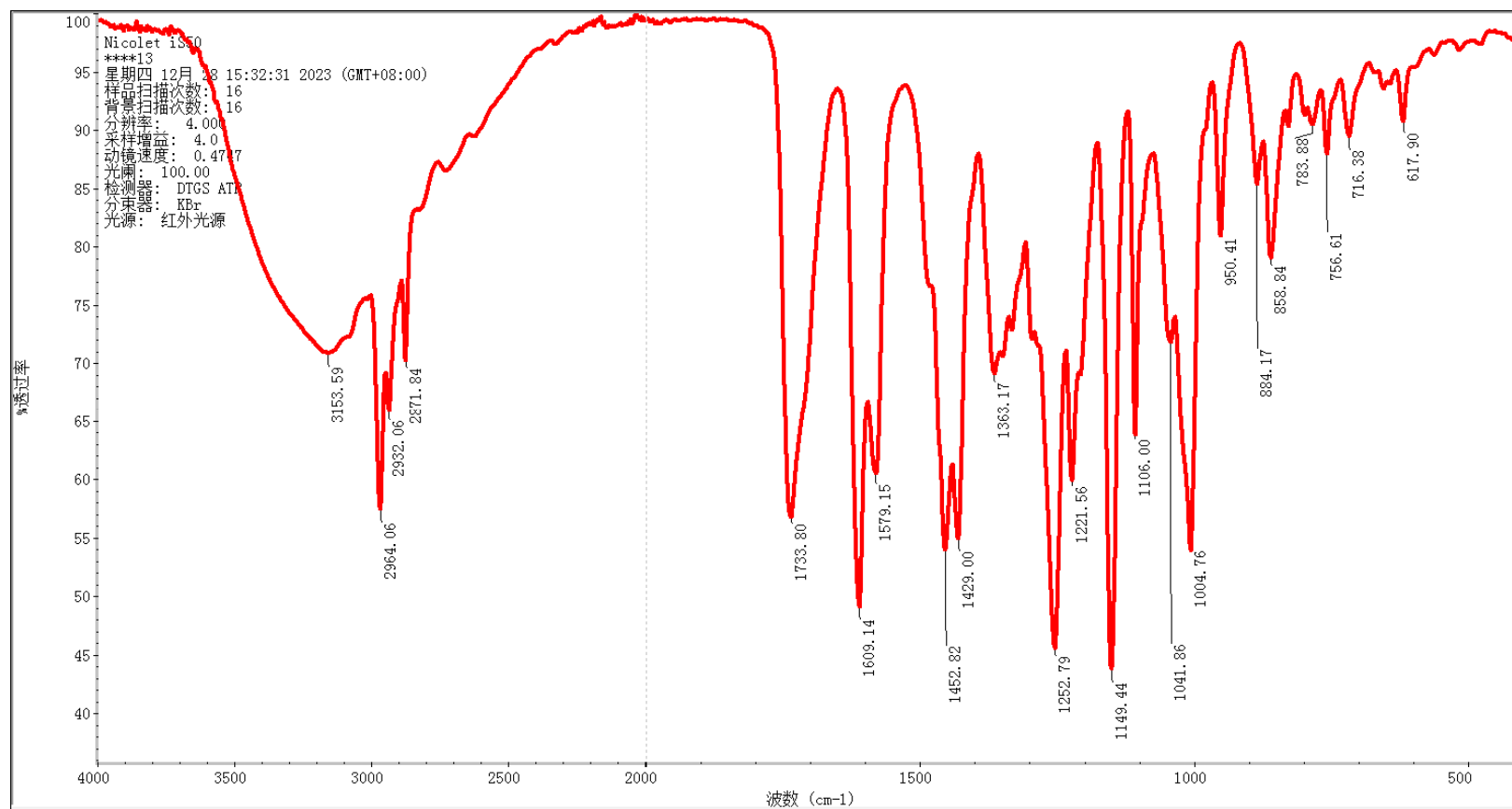


Figure S96. IR spectrum of **12**

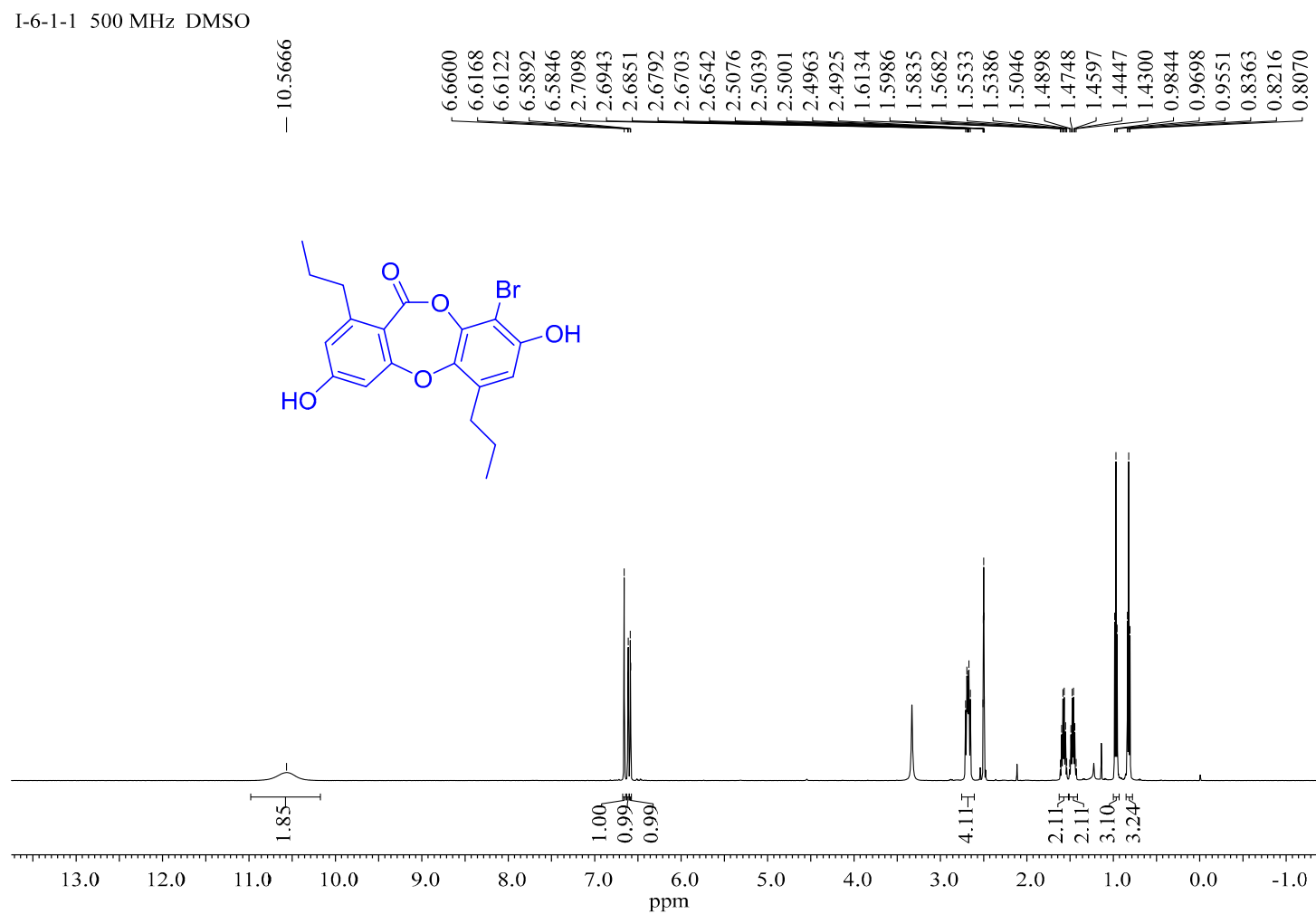


Figure S97. ¹H-NMR spectrum of **13** in DMSO-*d*₆ (500 MHz)

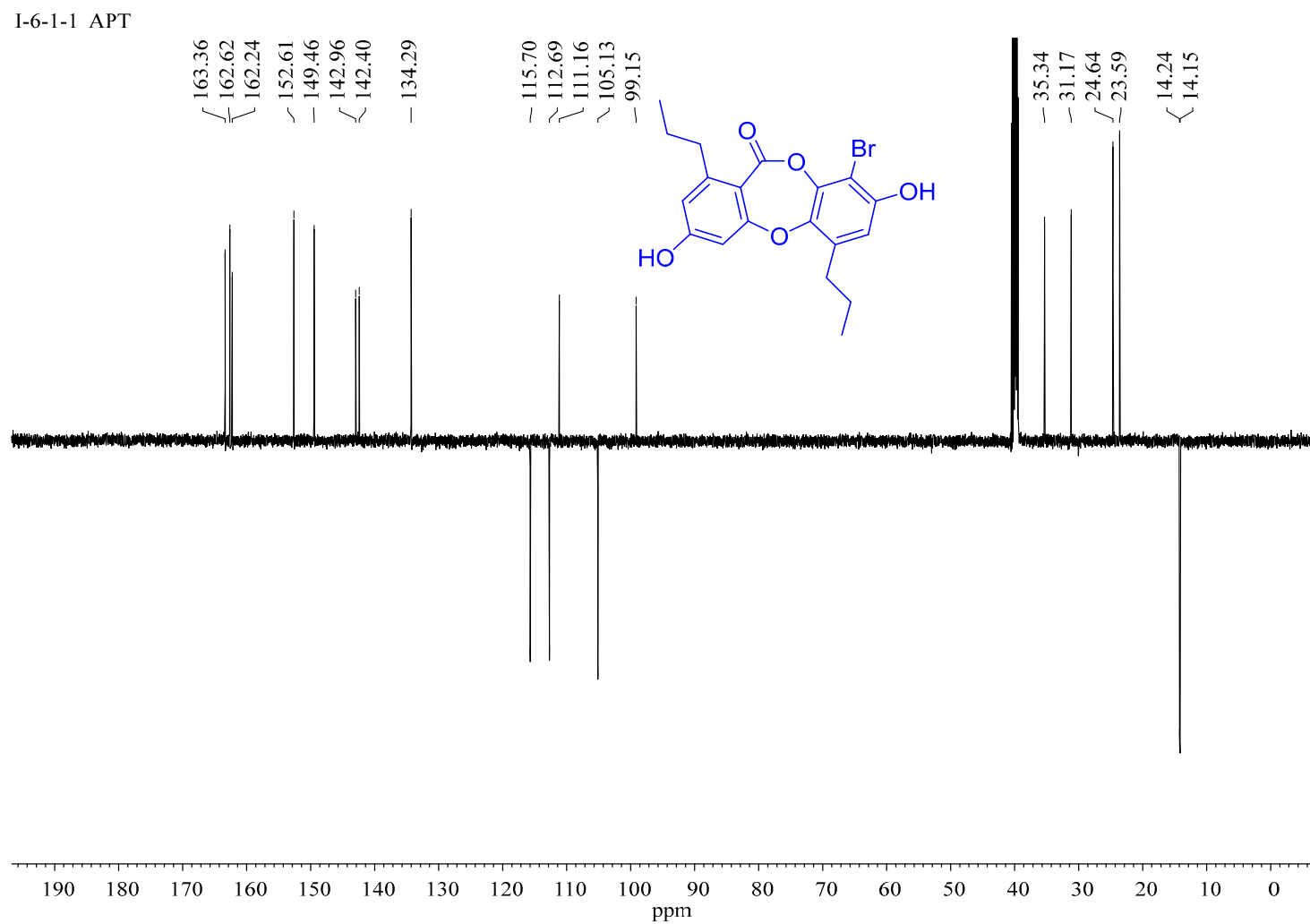


Figure S98. APT spectrum of **13** in DMSO-*d*₆ (125 MHz)

I-6-1-1 HSQC

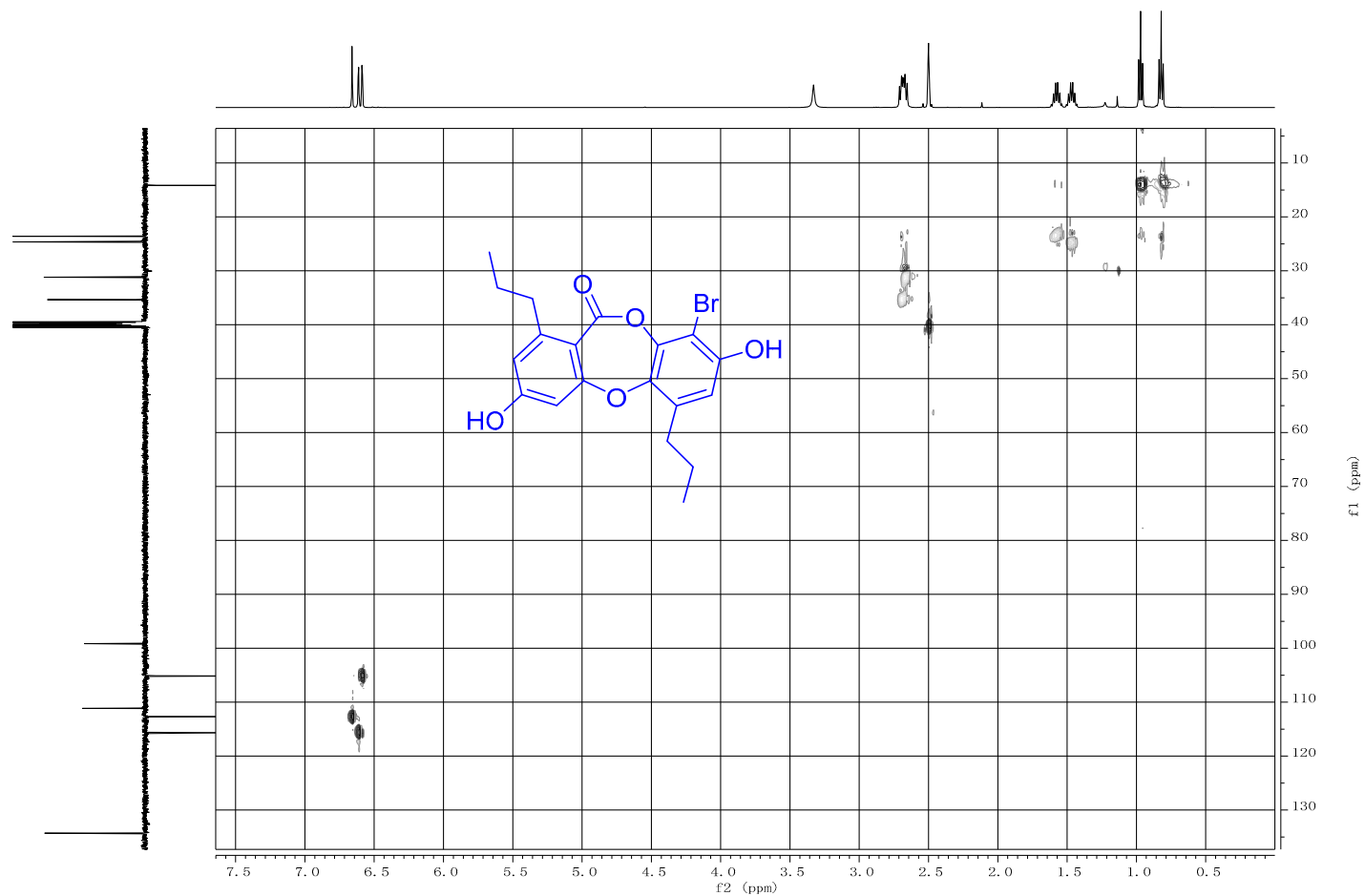


Figure S99. HSQC spectrum of **13** in DMSO-*d*₆

Chemical structure of compound 10 is shown in the center of the plot:

CCOC(=O)c1cc(O)cc(CCC)c1Oc2cc(O)ccc2CCC

Figure S100. ^1H - ^1H COSY spectrum of **13** in DMSO- d_6

I-6-1-1 HMBC

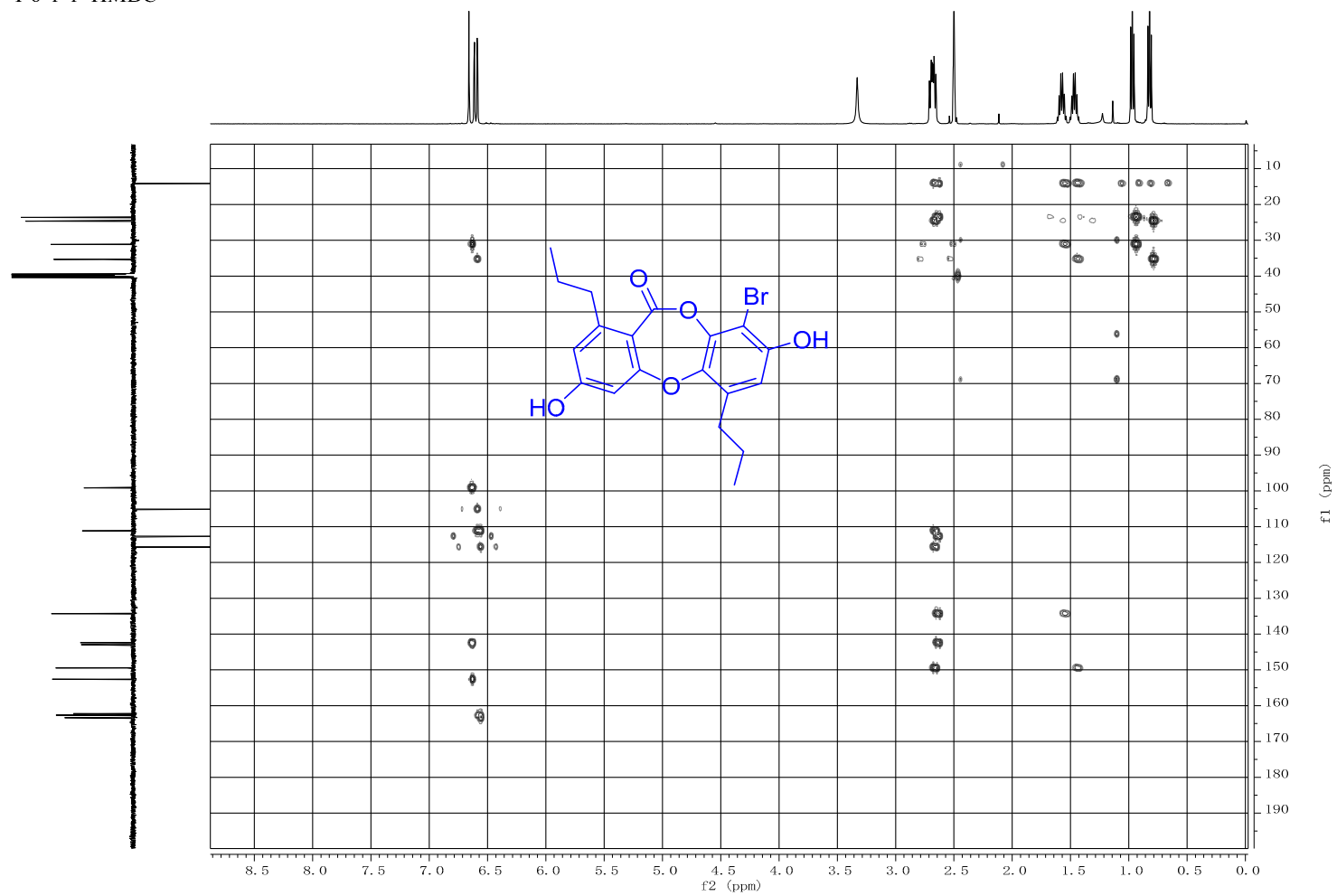
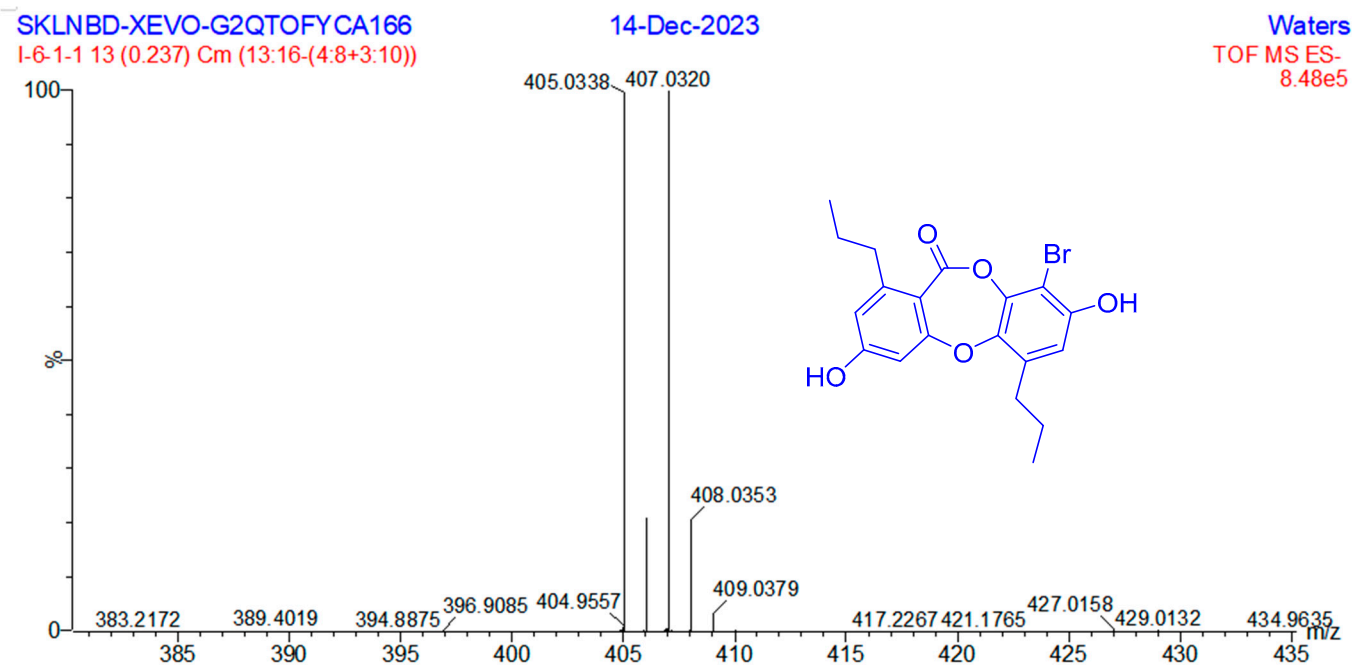


Figure S101. HMBC spectrum of **13** in DMSO-*d*₆



Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
405.0338	405.0338	0.0	0.0	10.5	476.0	0.000	100.00	C ₁₉ H ₁₈ O ₅ Br
	405.0340	-0.2	-0.5	30.5	509.1	33.139	0.00	C ₃₂ H ₅ O

Figure S102. HRESIMS spectrum of **13**

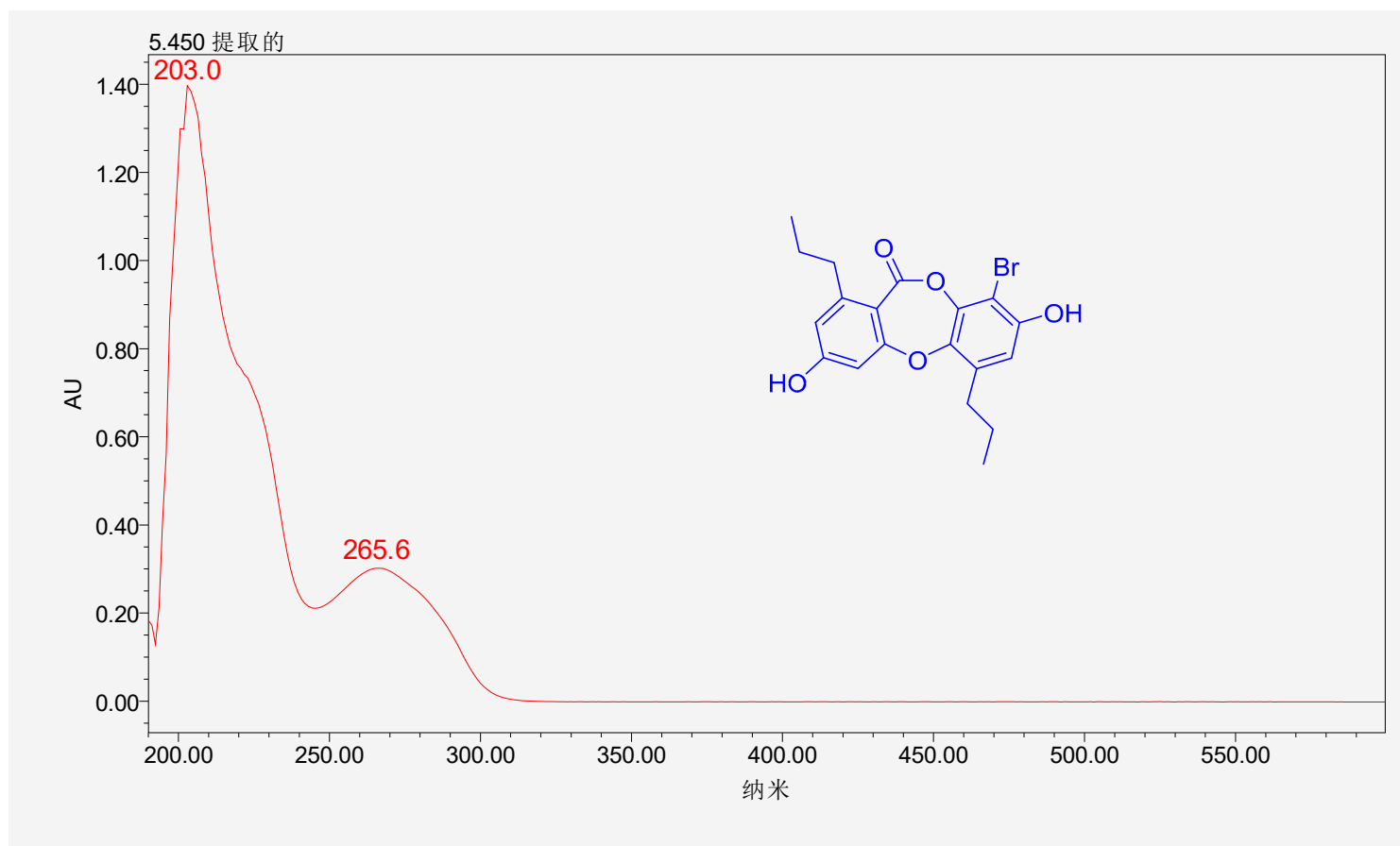


Figure S103. UV spectrum of **13**

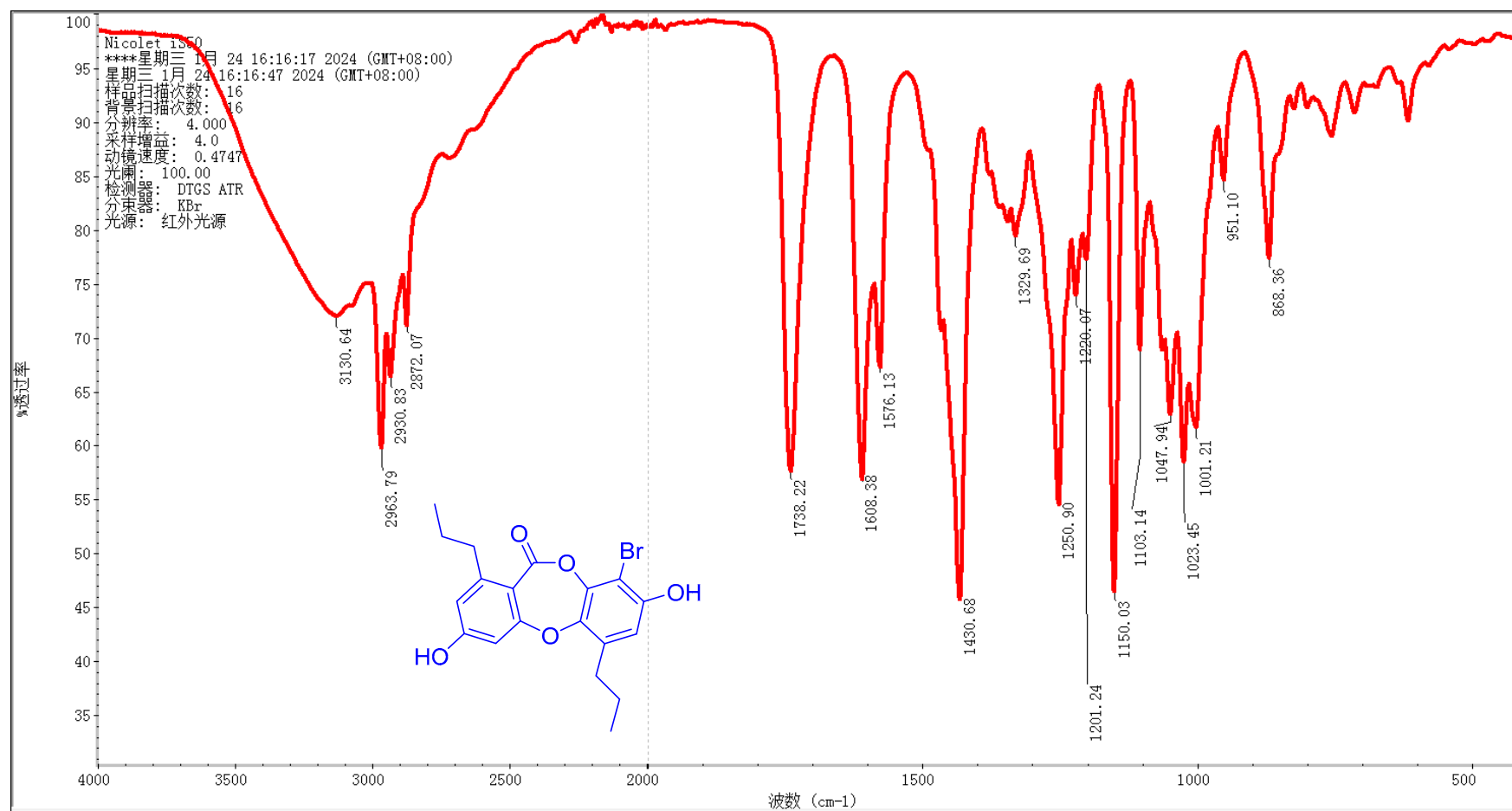


Figure S104. IR spectrum of **13**

N-3-2 500 MHz DMSO

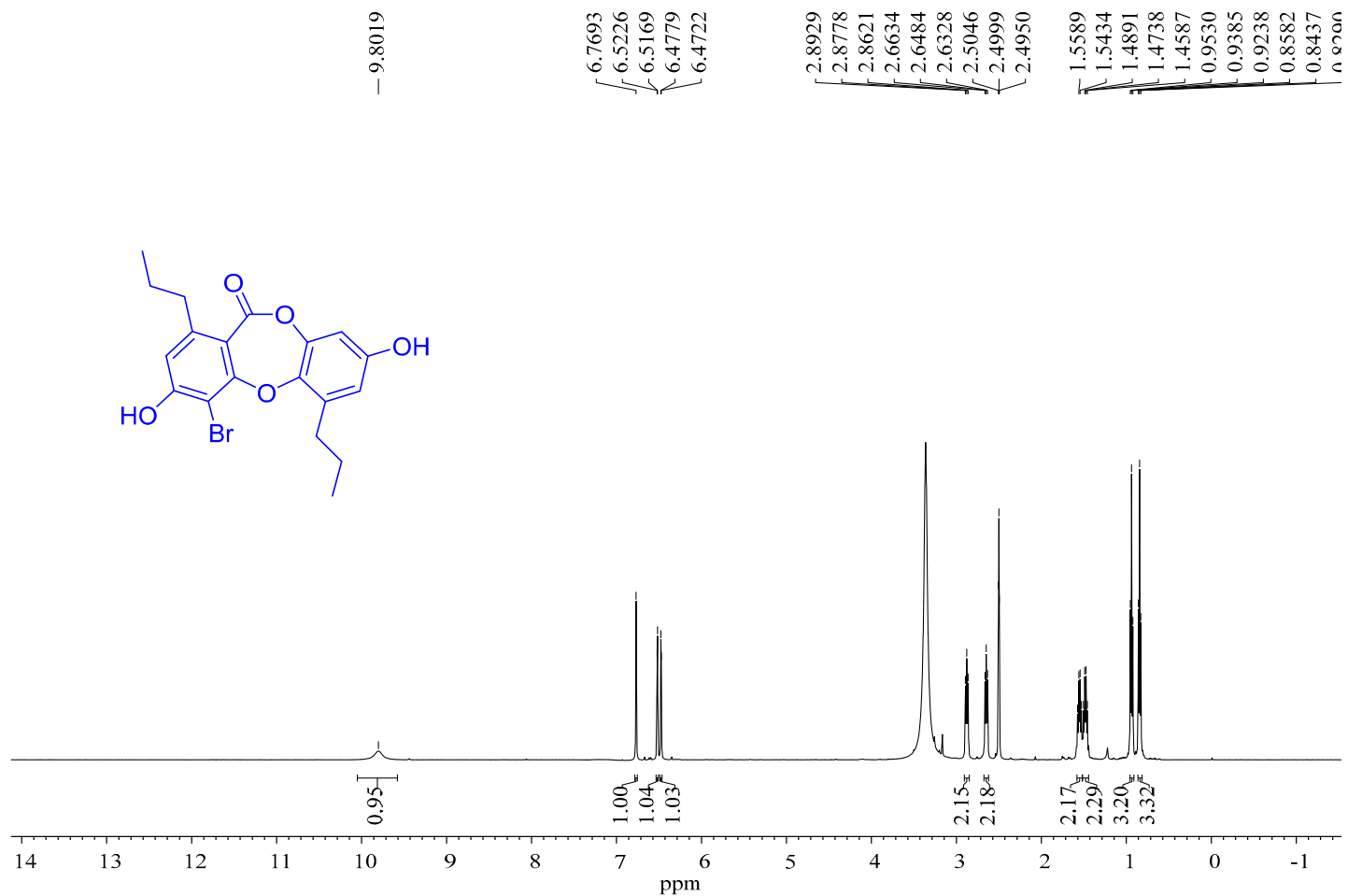


Figure S105. ^1H -NMR spectrum of **14** in DMSO- d_6 (500 MHz)

N-3-2 APT

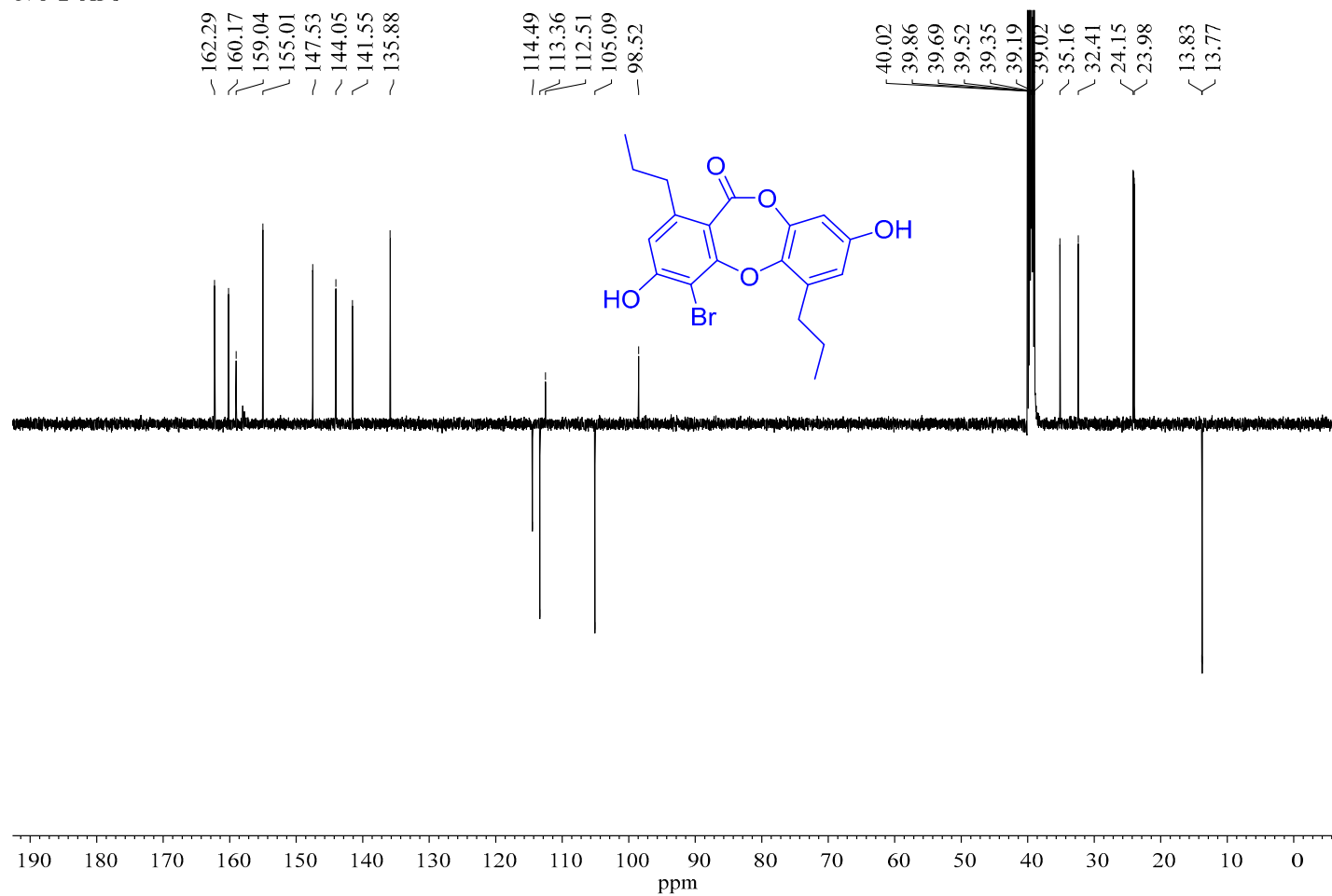


Figure S106. APT spectrum of **14** in DMSO-*d*₆ (125 MHz)

N-3-2 HSQC

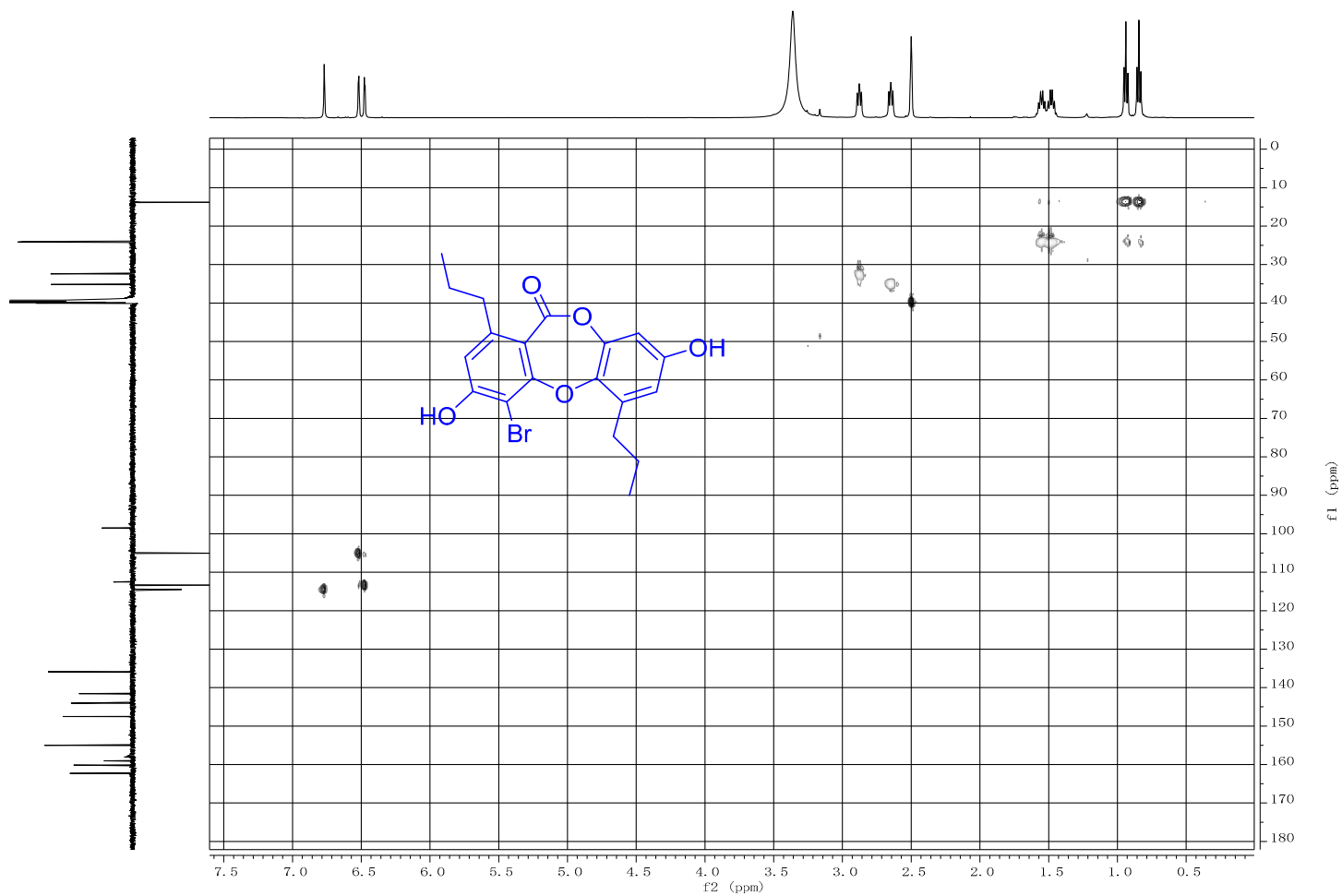


Figure S107. HSQC spectrum of **14** in DMSO-*d*₆

N-3-2 COSY

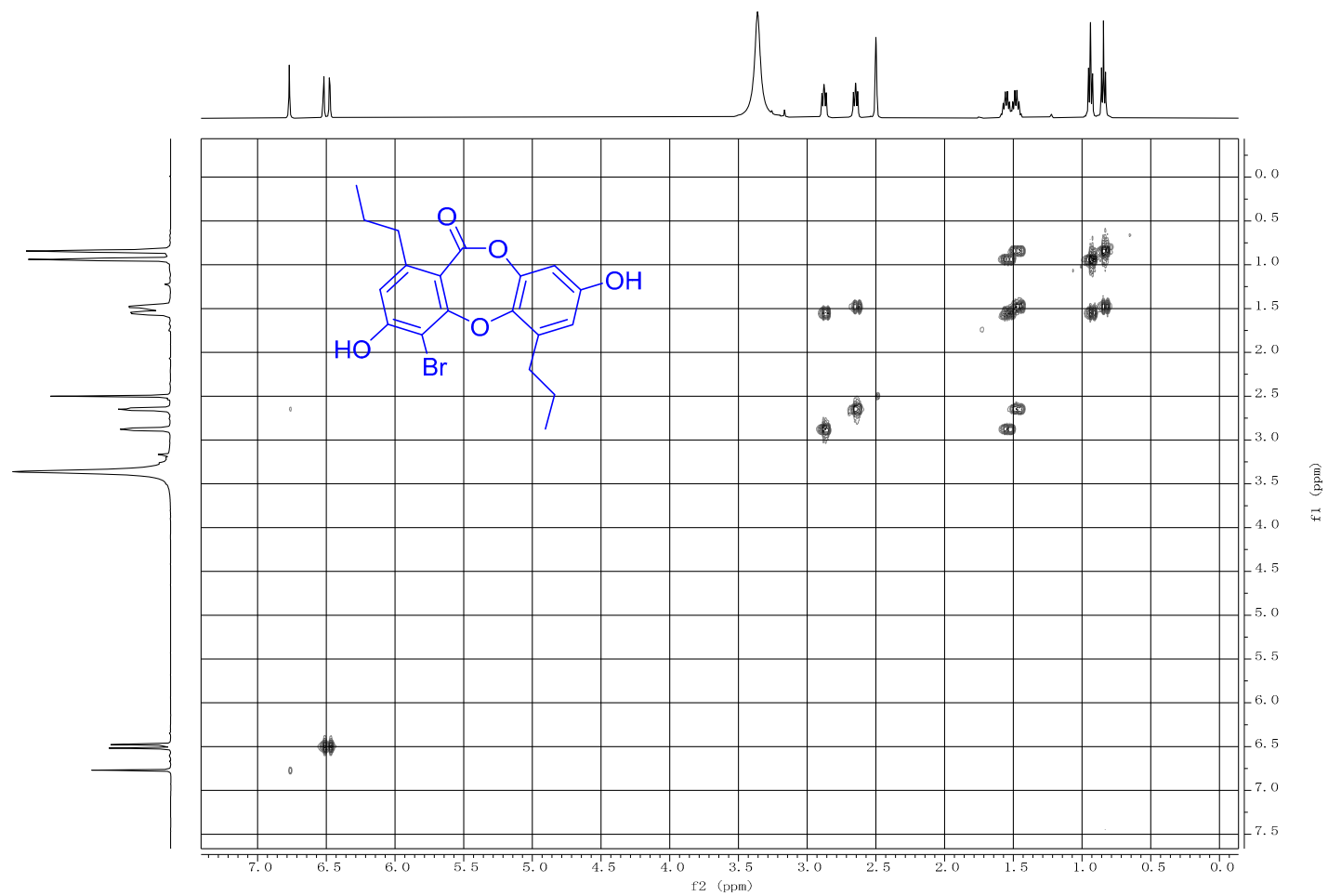


Figure S108. ^1H - ^1H COSY spectrum of **14** in $\text{DMSO}-d_6$

N-3-2 HMBC

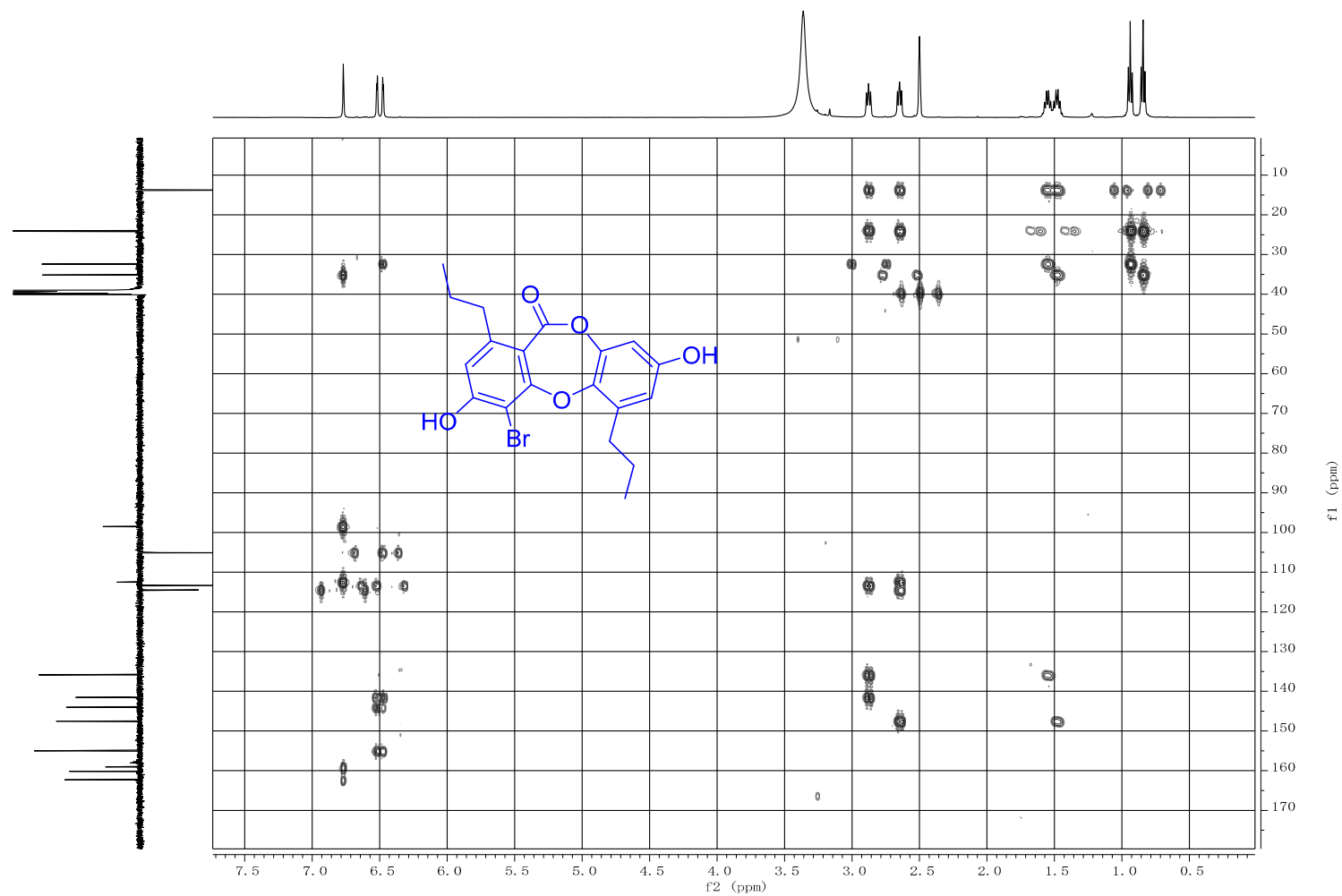
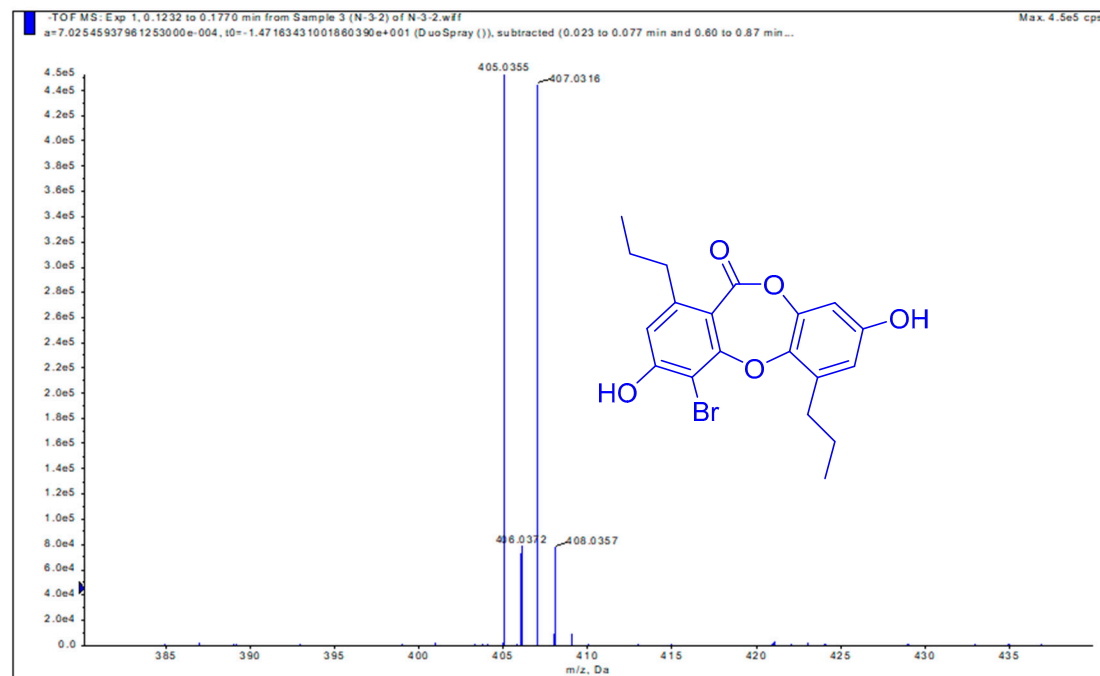


Figure S109. HMBC spectrum of **14** in DMSO-*d*₆



Elemental Composition Hypermass Elemental Targeting Mass Property Isotopic Distribution

Input parameters
Target m/z: 405.0355 Da
Tolerance: 5 ppm

Calculate Show isotopic Export to file Help

	Formula ...	Calculated	mDa Error	ppm Error	DBE
1	C ₁₉ H ₁₈ O ₅ Br	405	1.7399	4.2958	10.5

Figure S110. HRESIMS spectrum of **14**

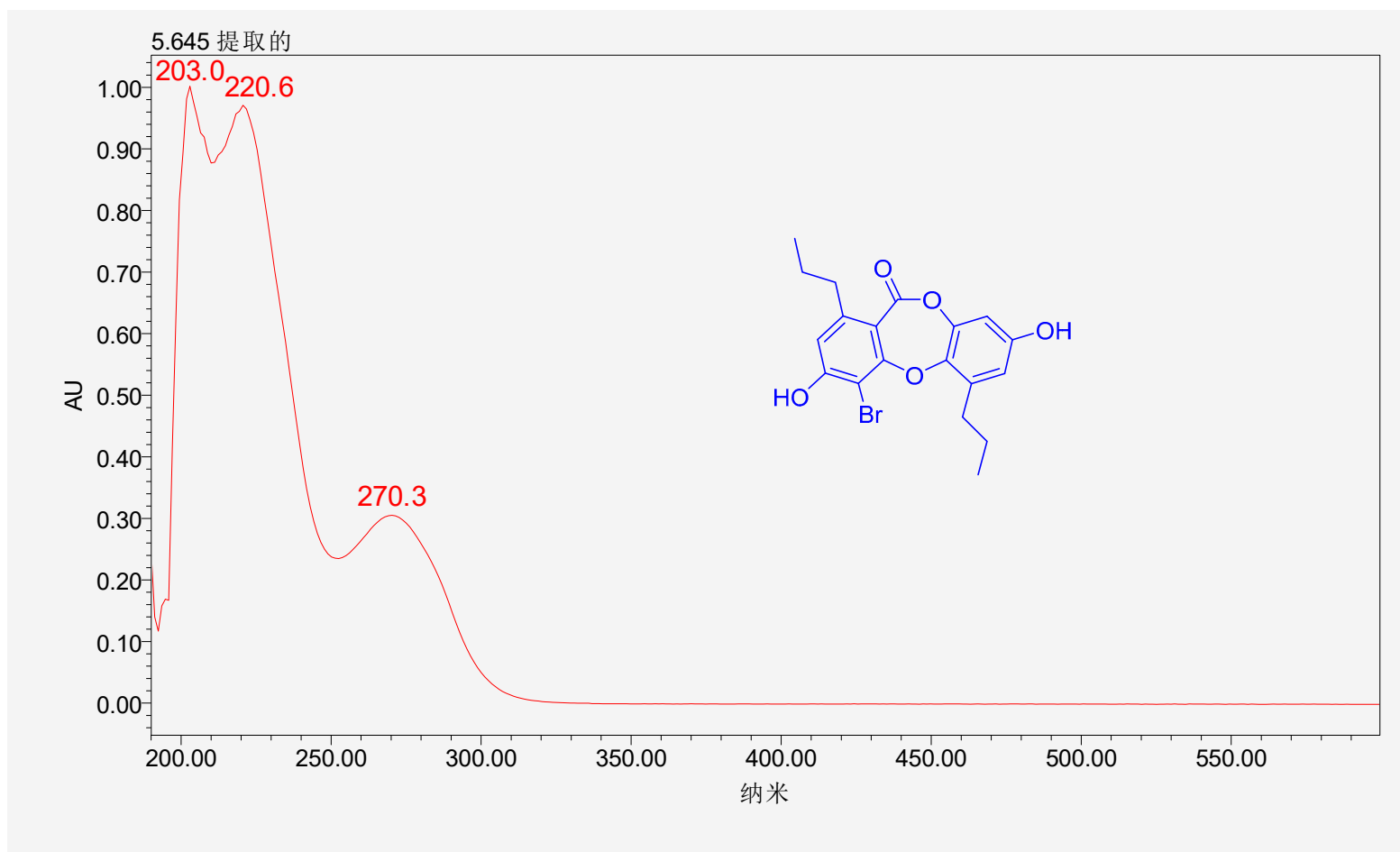


Figure S111. UV spectrum of **14**

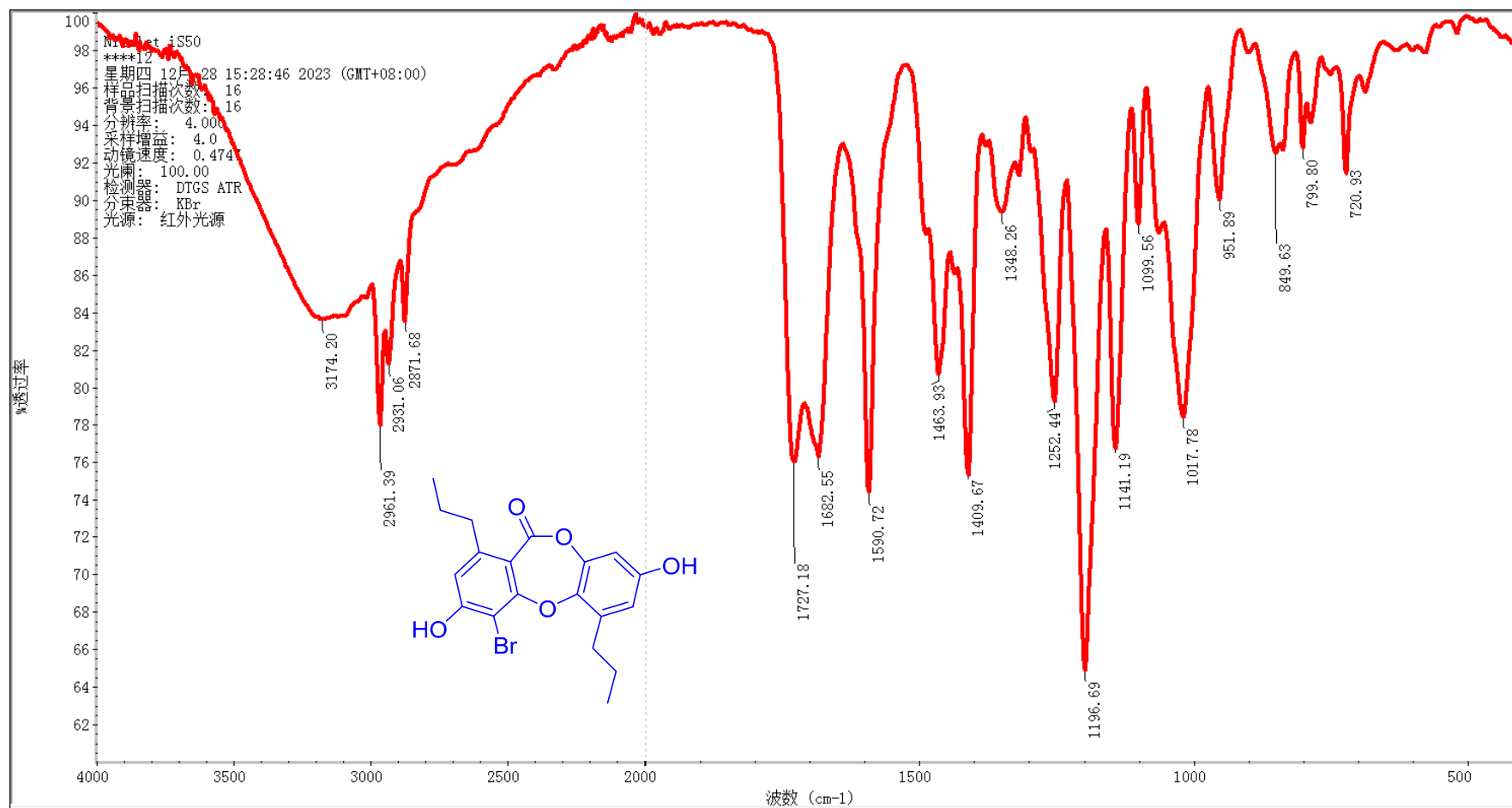


Figure S112. IR spectrum of 14

N-5-4 500 MHz DMSO

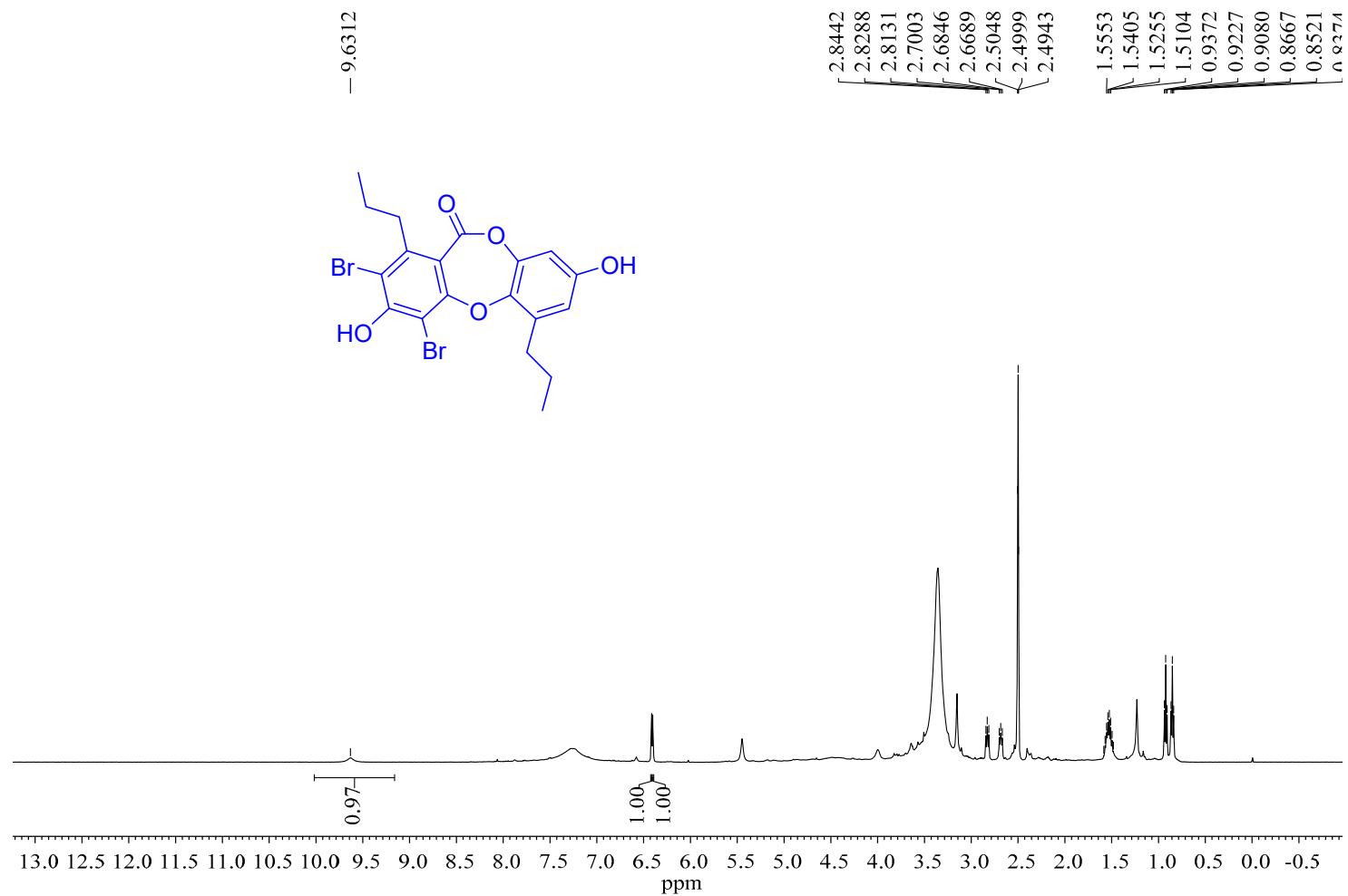


Figure S113. ^1H -NMR spectrum of **15** in DMSO- d_6 (500 MHz)

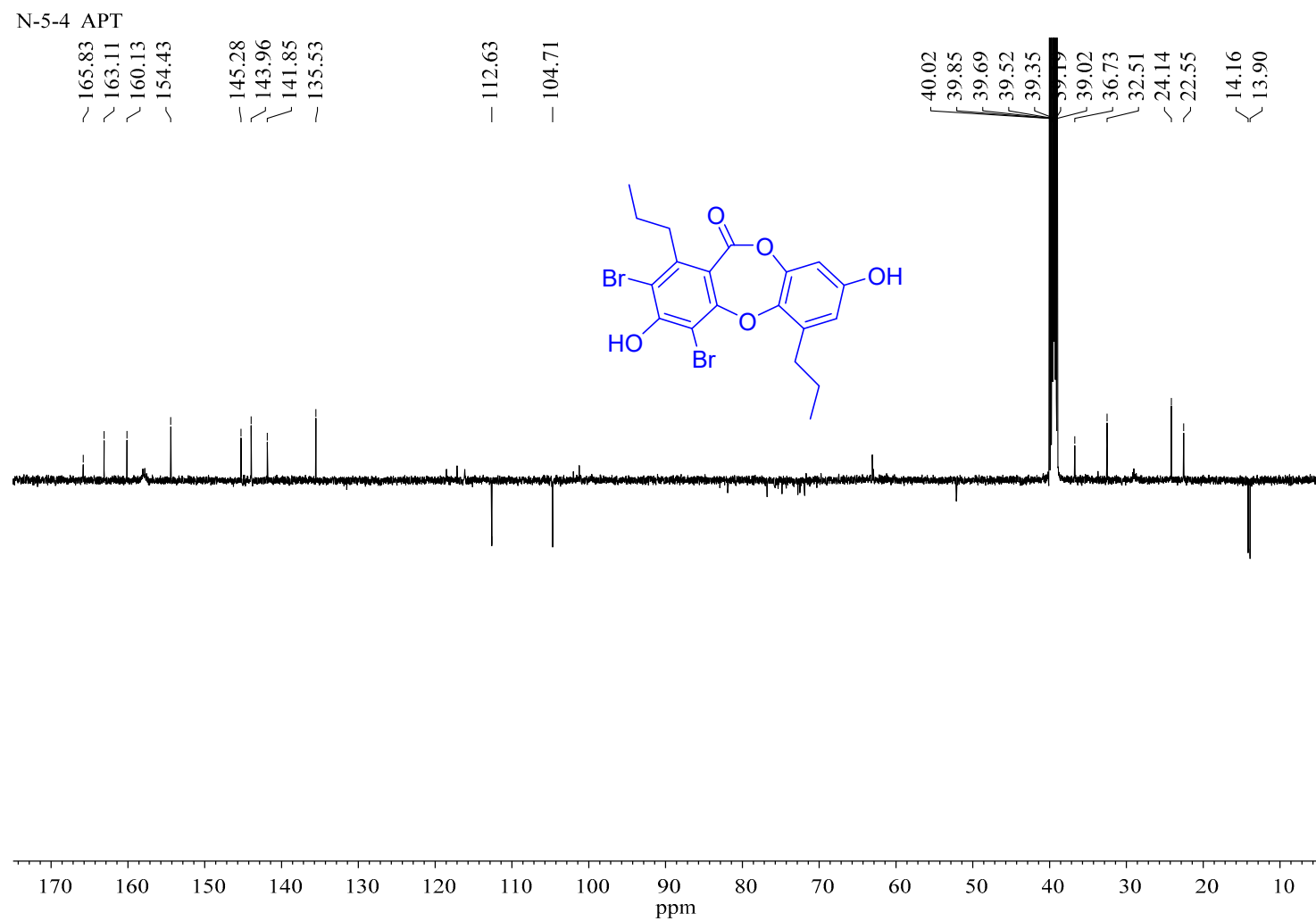


Figure S114. APT spectrum of **15** in DMSO-*d*₆ (125 MHz)

N-5-4 HSQC

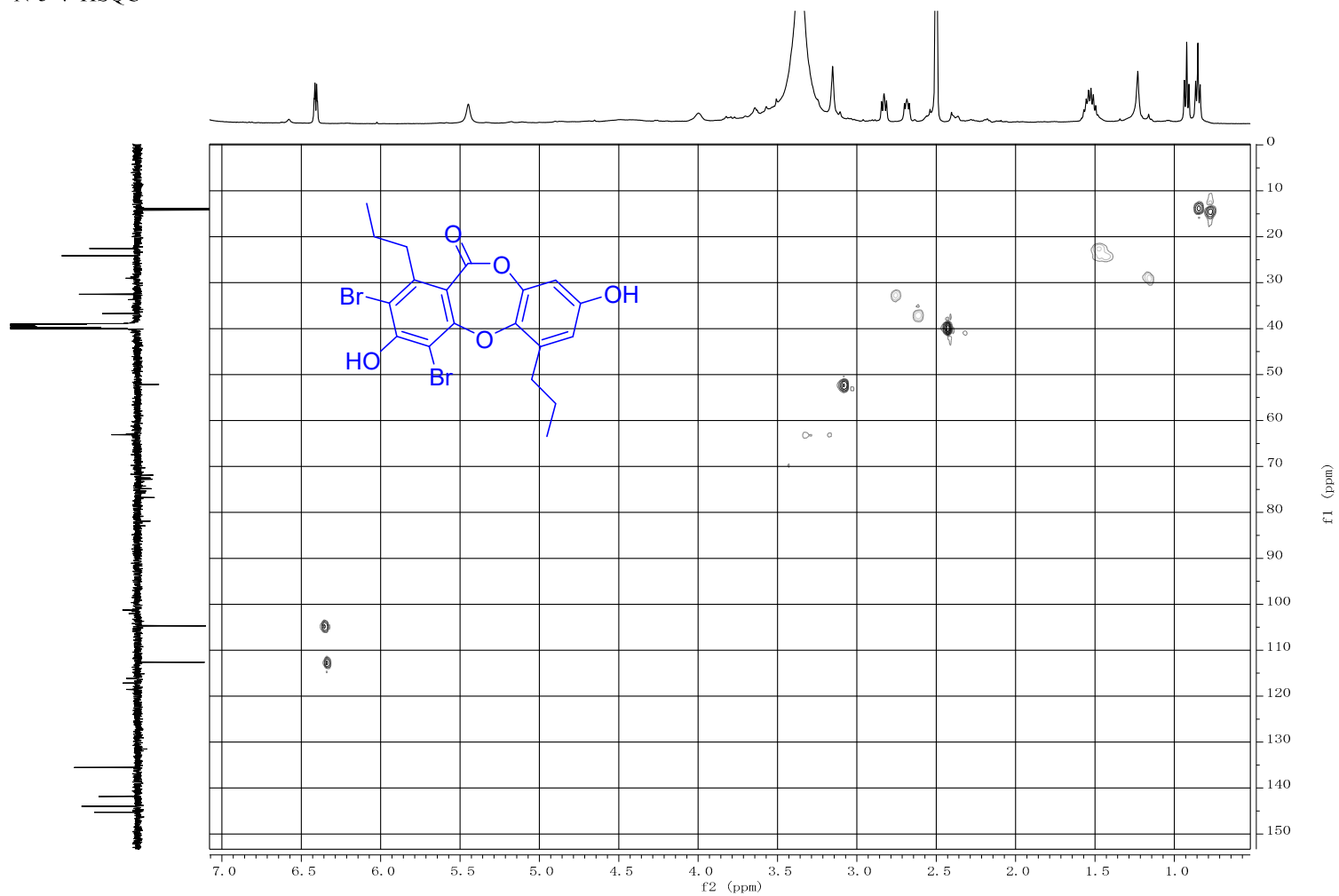


Figure S115. HSQC spectrum of **15** in $\text{DMSO-}d_6$

N-5-4 COSY

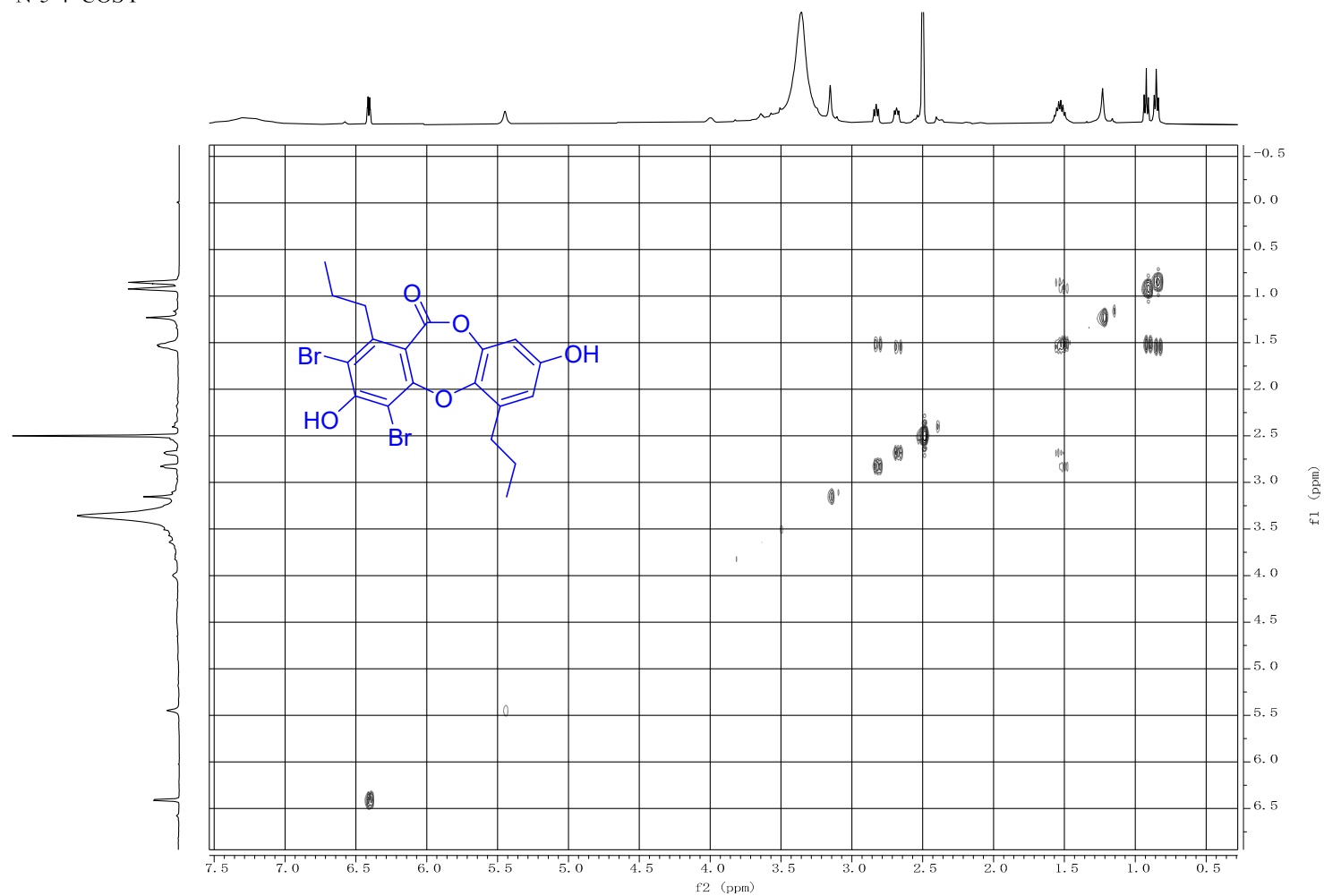


Figure S116. ^1H - ^1H COSY spectrum of **15** in $\text{DMSO-}d_6$

N-5-4 HMBC

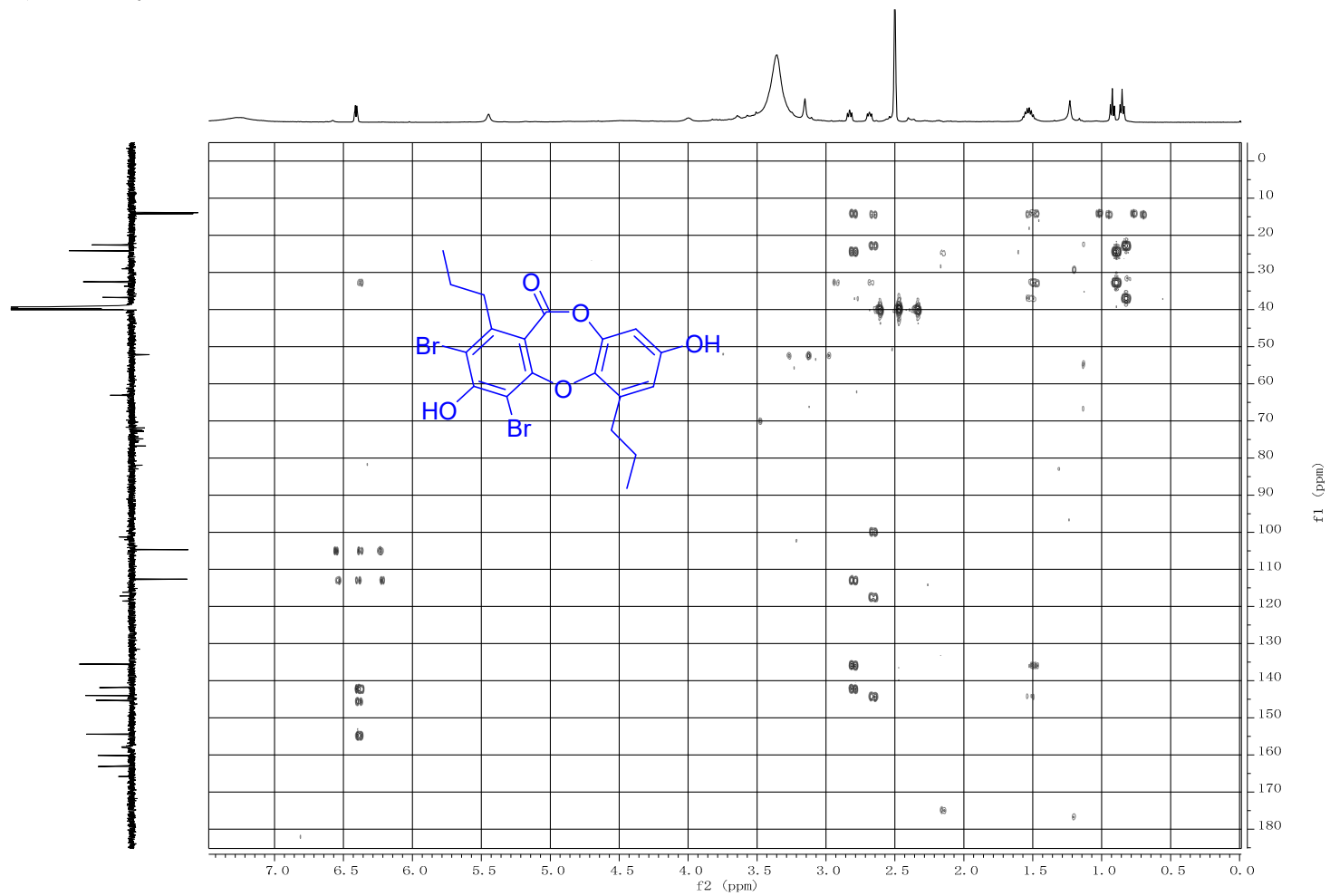
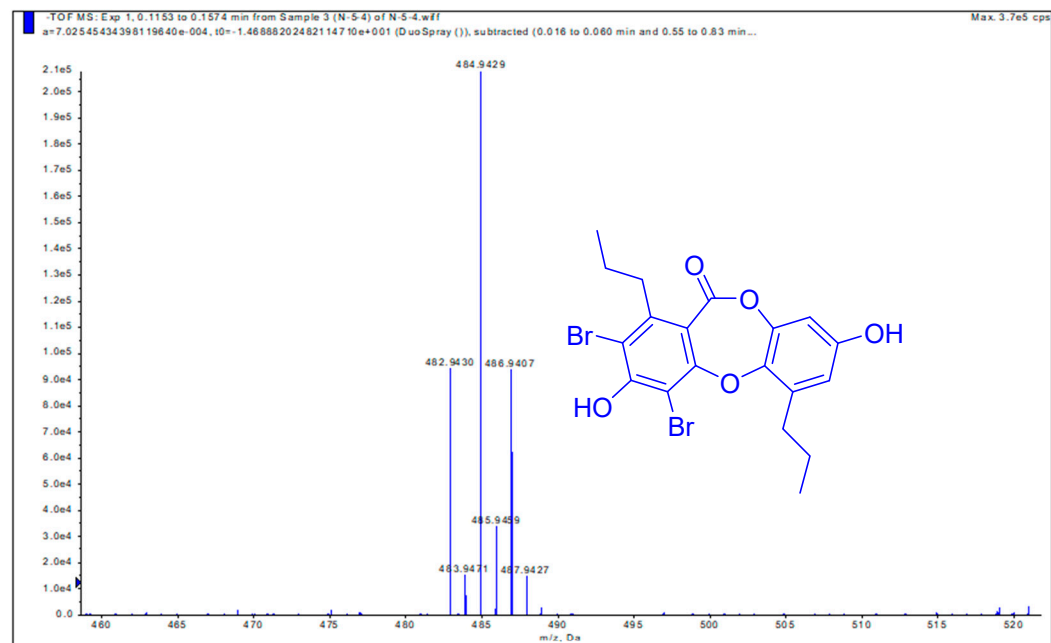


Figure S117. HMBC spectrum of **15** in DMSO-*d*₆



Elemental Composition Hypermass Elemental Targeting Mass Property Isotopic Distribution

Input parameters

Target m/z: 482.9430 Da

Tolerance: 5 ppm

Calculate Show isotopic Export to file Help

	Formula ...	Calculated	mDa Error	ppm Error	DBE
1	C19 H17 O5 Br2	482.9	-1.271	-2.6319	10.5

Figure S118. HRESIMS spectrum of **15**

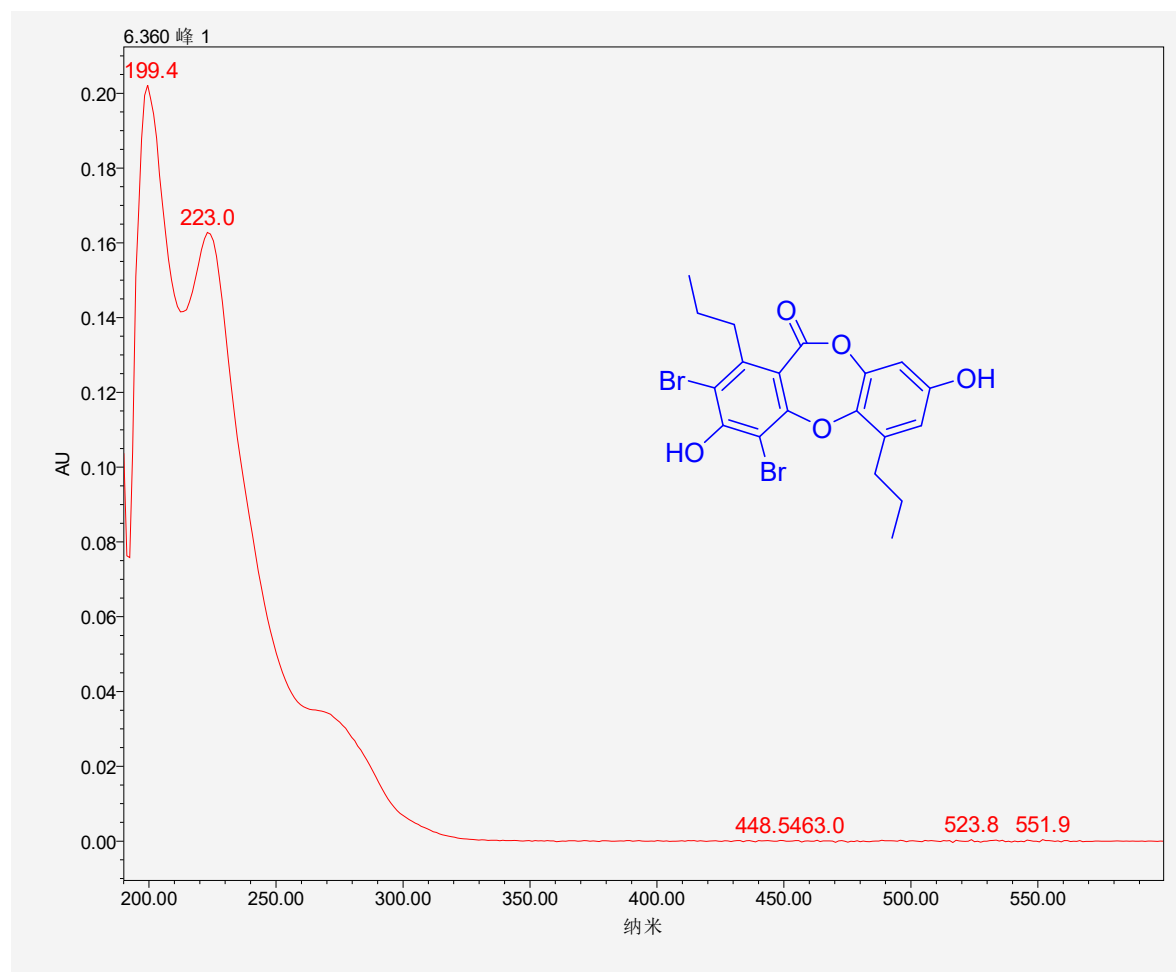


Figure S119. UV spectrum of **15**

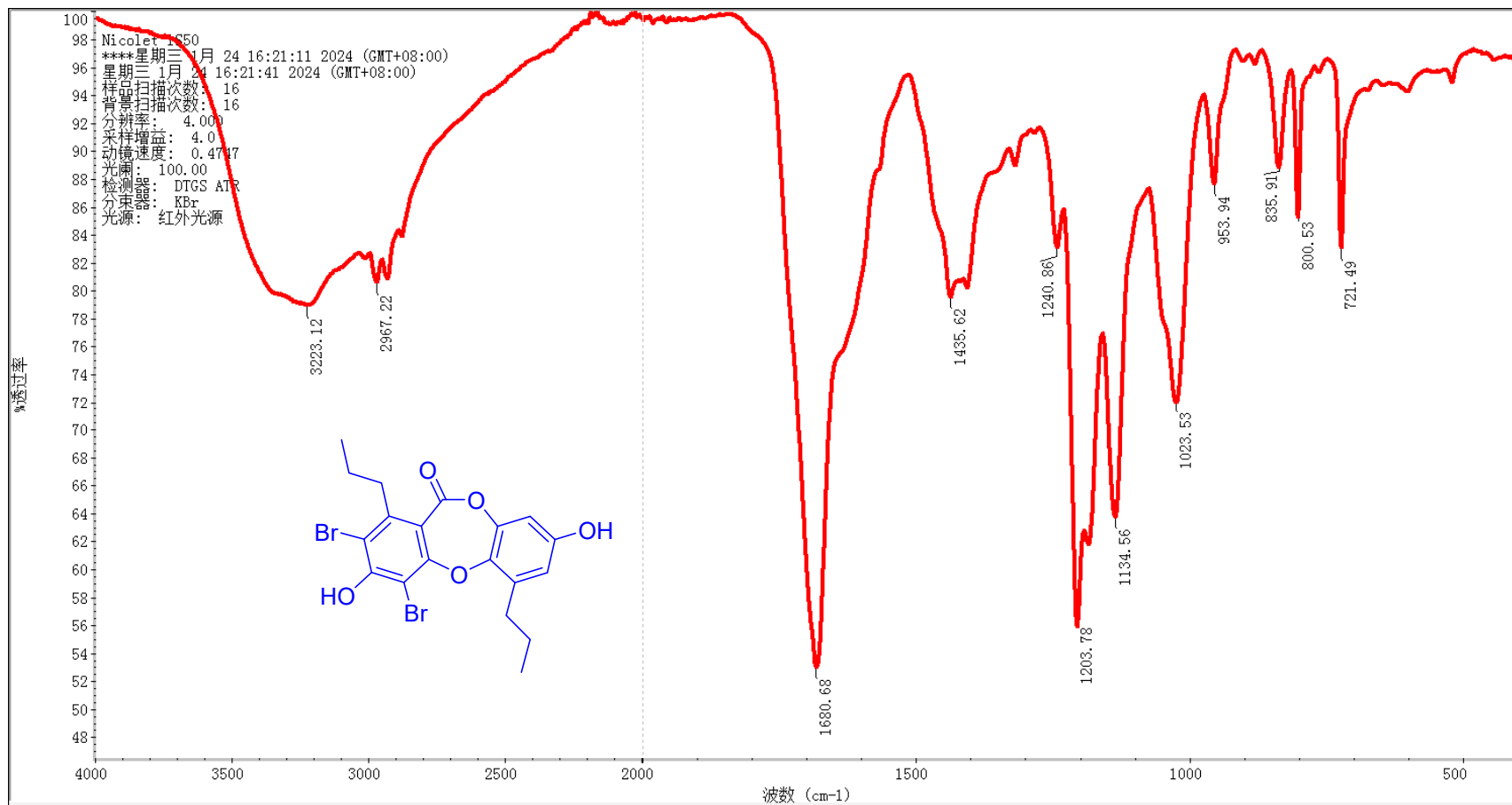


Figure S120. IR spectrum of 15

Fr.M-2 500 MHz DMSO

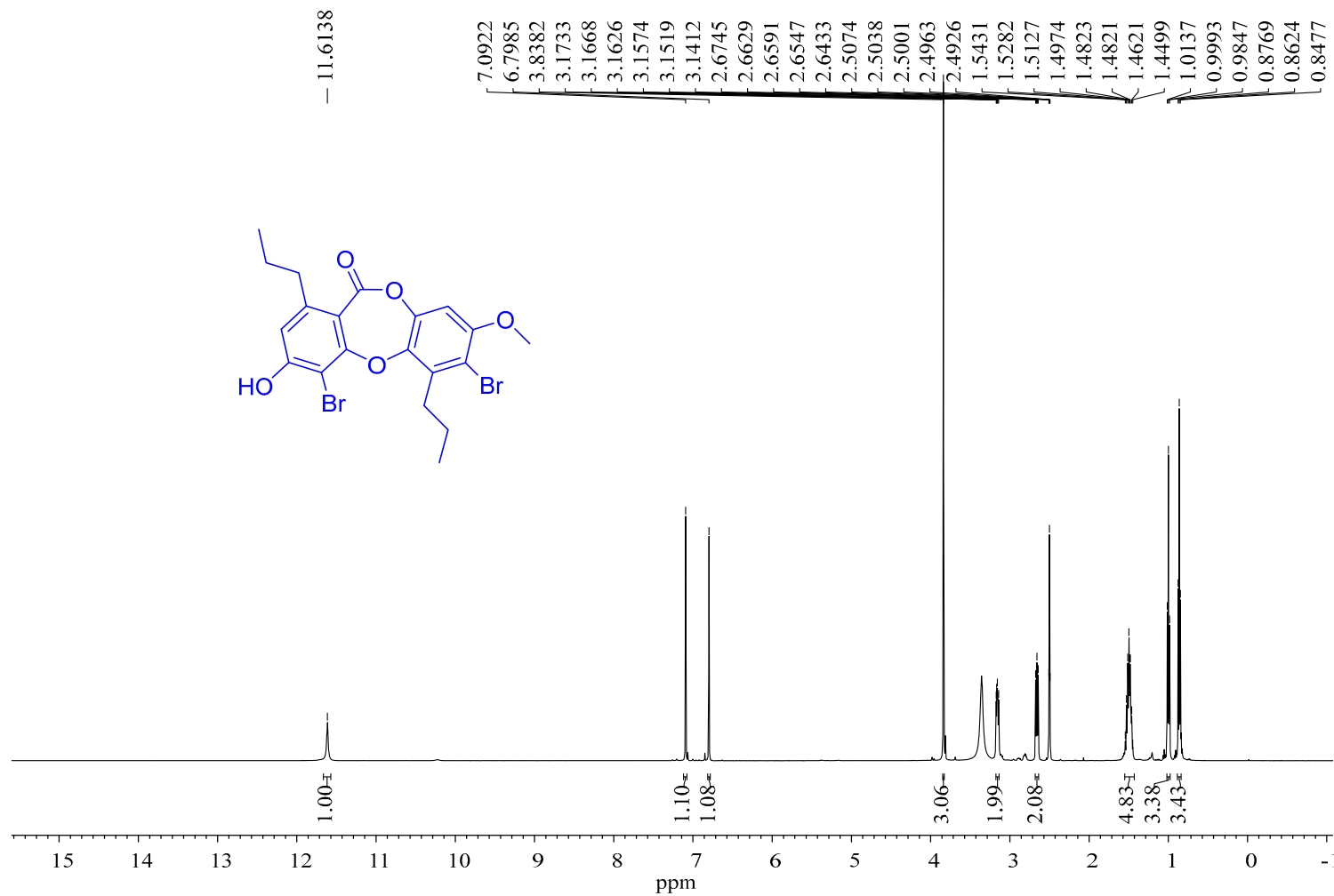


Figure S121. ^1H -NMR spectrum of **16** in DMSO- d_6 (500 MHz)

Fr.M-2 C

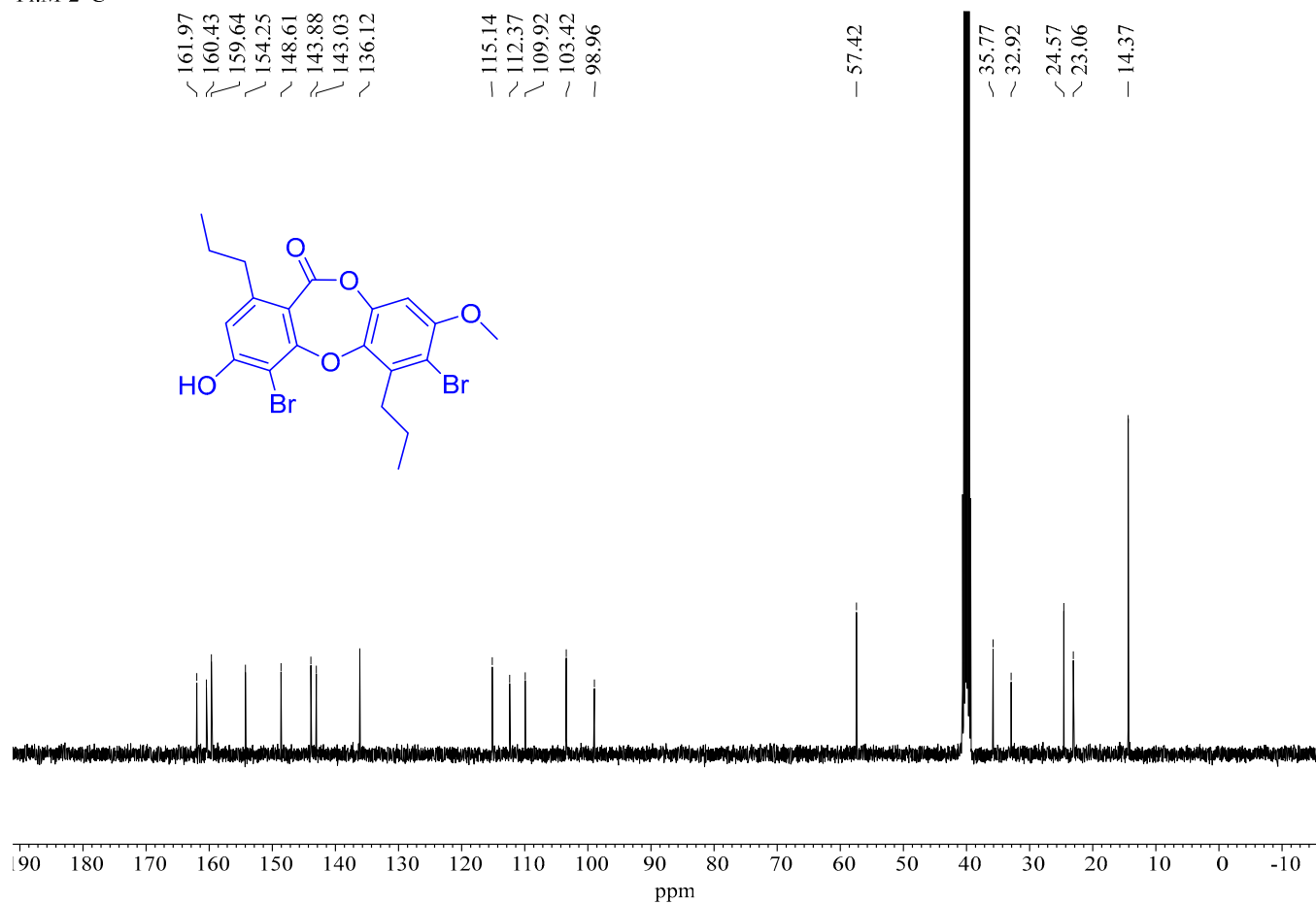


Figure S122. ¹³C-NMR spectrum of **16** in DMSO-*d*₆ (125 MHz)

Fr.M-2 HSQC

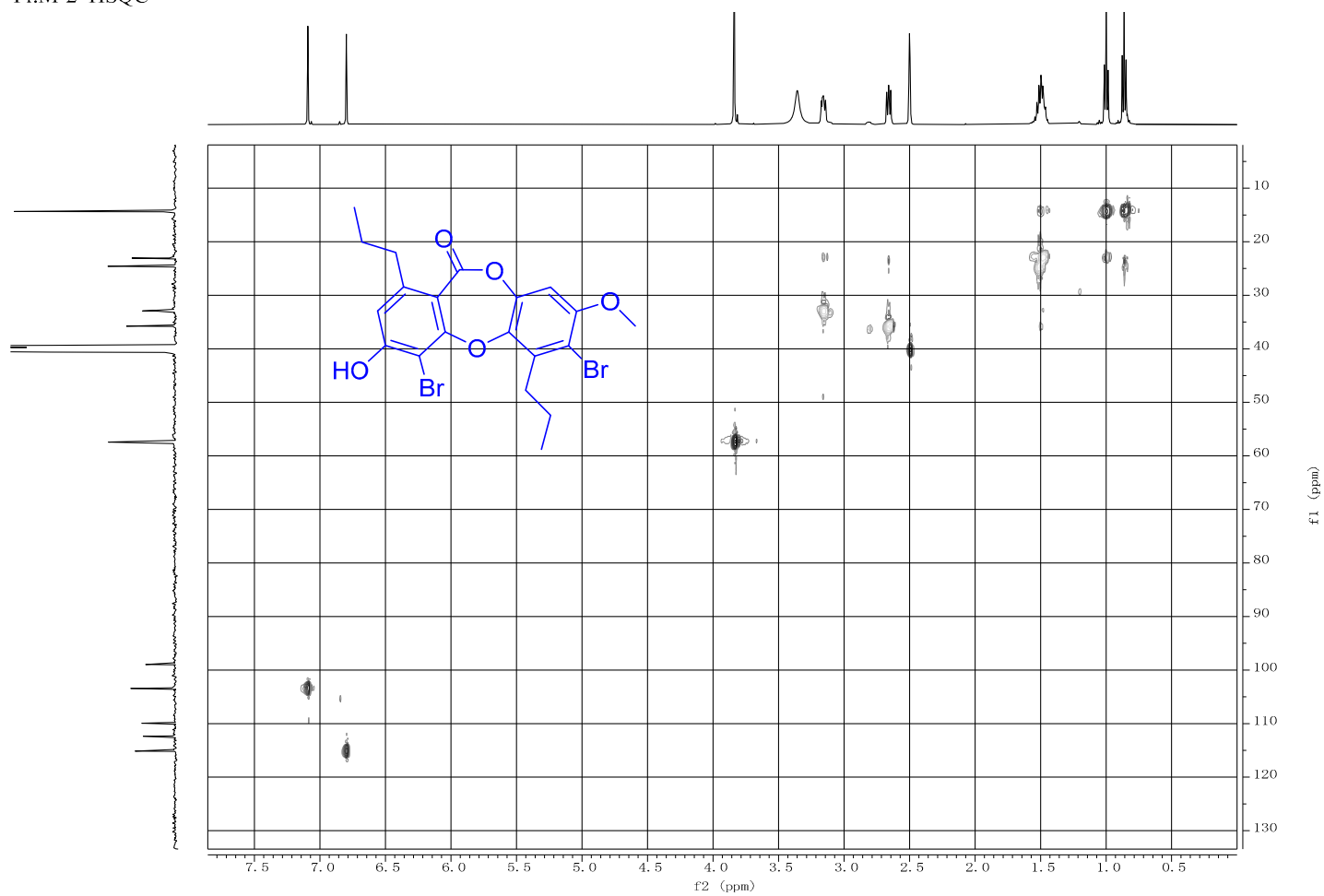


Figure S123. HSQC spectrum of **16** in DMSO-*d*₆

Fr.M-2 COSY

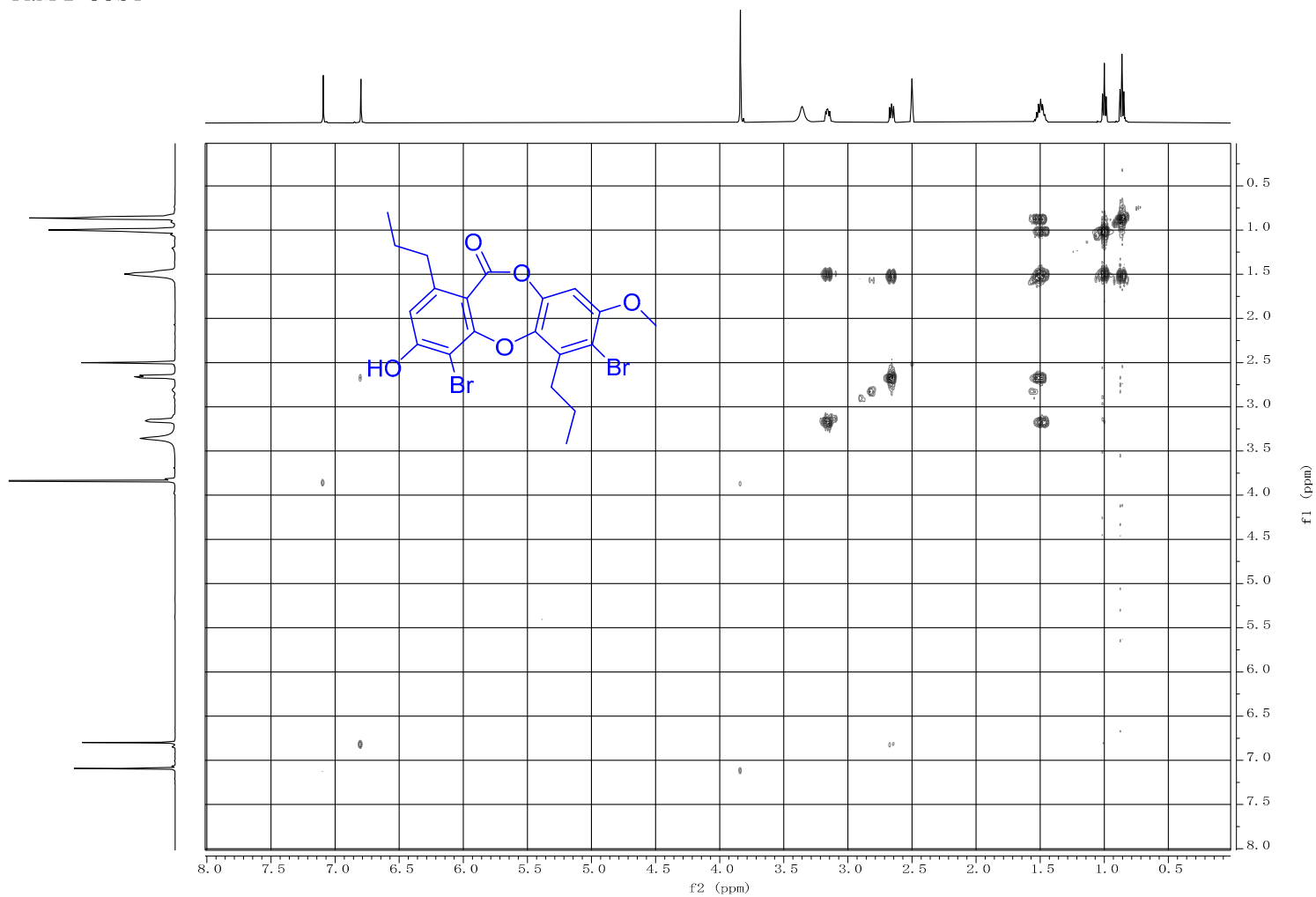


Figure S124. ^1H - ^1H COSY spectrum of **16** in $\text{DMSO}-d_6$

Fr.M-2 HMBC

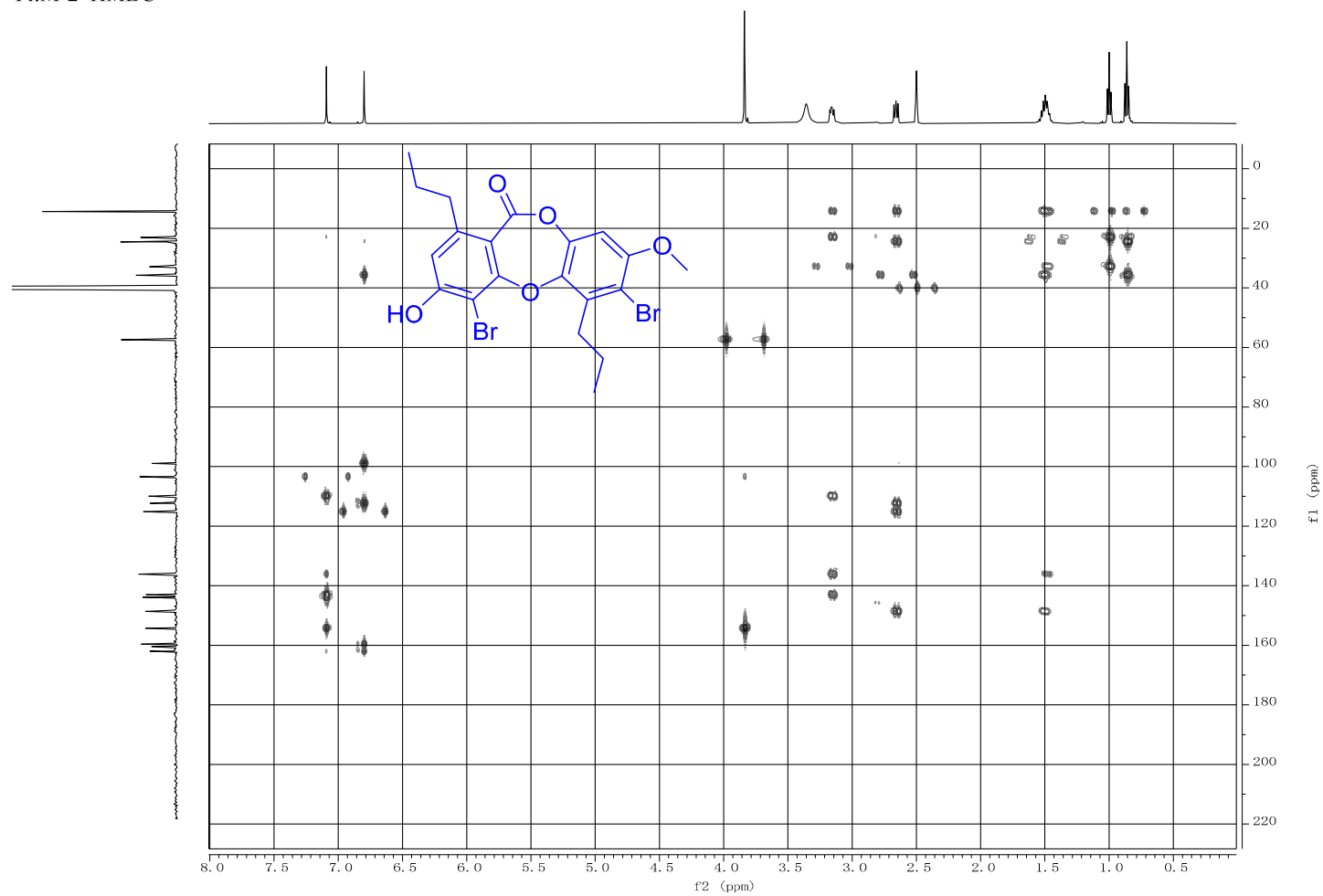
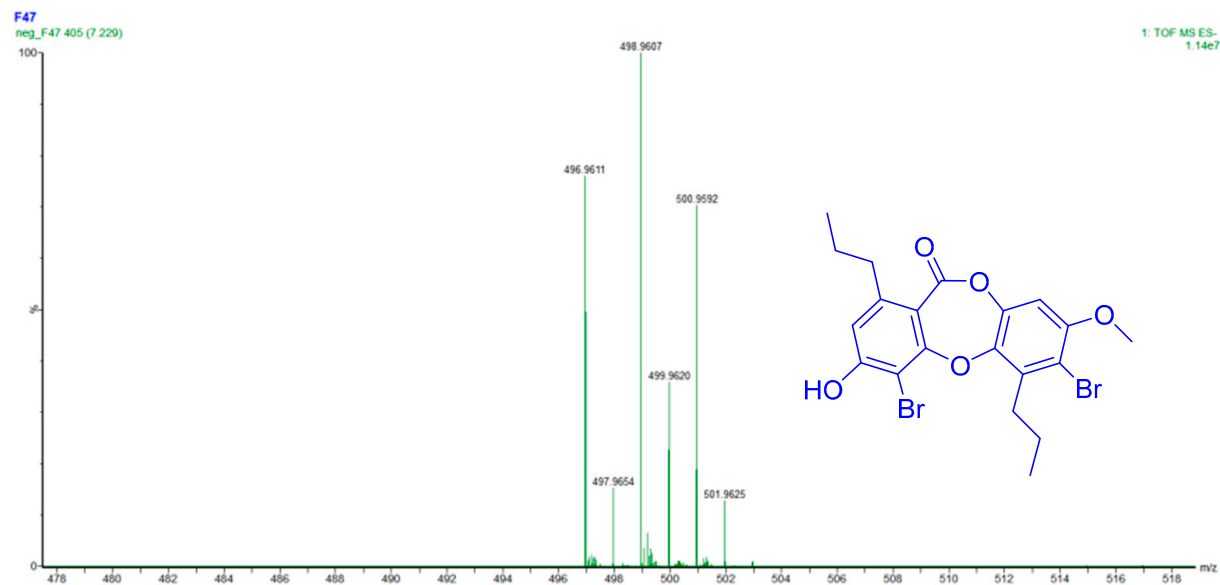


Figure S125. HMBC spectrum of **16** in DMSO-*d*₆



Single Mass Analysis

Tolerance = 5.0 mDa / DBE: min = -1.5, max = 50.0

Element prediction: Off

Monoisotopic Mass, Even Electron Ions

351 formula(e) evaluated with 8 results within limits (up to 50 closest results for each mass)

Elements Used:

C: 0-500

H: 0-1000

O: 0-200

Br: 0-8

Mass	Calc. Mass	mDa	PPM	DBE	Formula	C	H	O	Br
496.9611	496.9658	-4.7	-9.5	1.5	C13 H23 O10 Br2	13	23	10	2
	496.9599	1.2	2.4	10.5	C20 H19 O5 Br2	20	19	5	2

Figure S126. HRESIMS spectrum of **16**

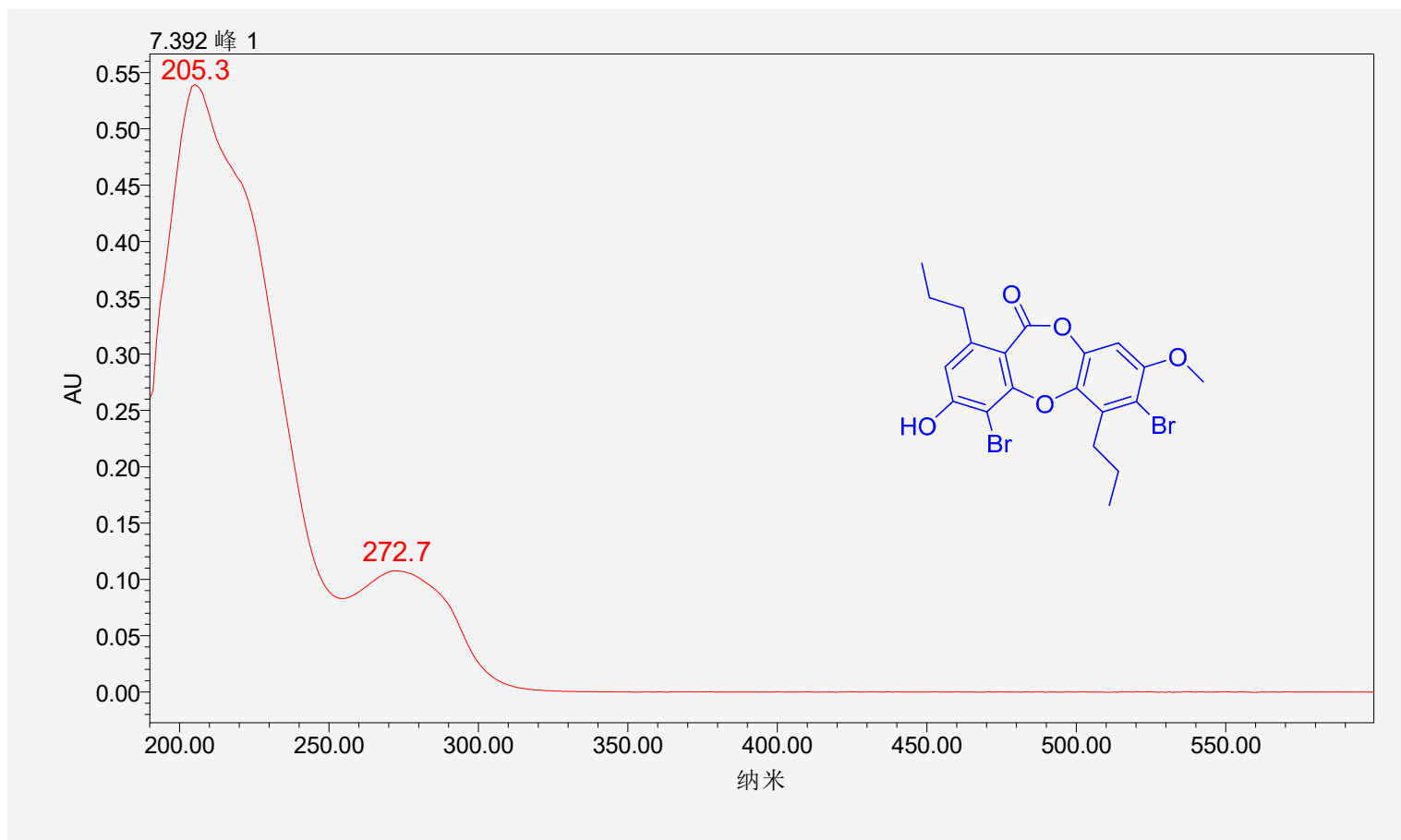


Figure S127. UV spectrum of **16**

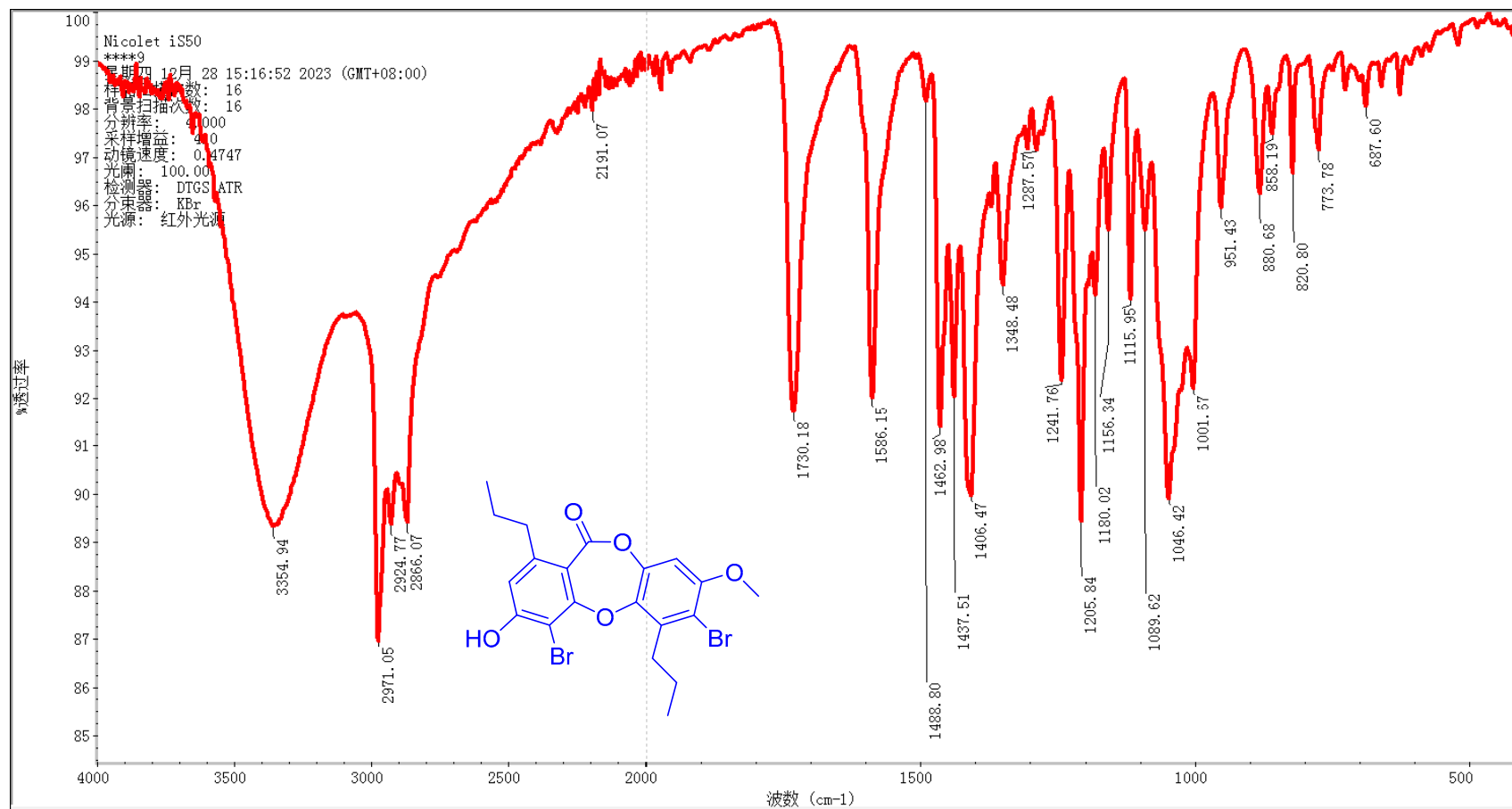


Figure S128. IR spectrum of 16

Table S12. Comparison of the ¹H NMR data of **12-16** to spiromastixones P-T (δ_{H} ppm, *J* in Hz)

Position	12 ^{a,d}	P ^{b,e}	13 ^{a,d}	Q ^{a,e}	14 ^{a,d}	R ^{b,e}	15 ^{a,d}	S ^{a,f}	16 ^{a,d}	T ^{a,e}
3	6.60, d (2.3)	6.73, d (2.0)	6.59, d (2.3)	6.72, d (2.0)	-	-	-	-	-	-
5	6.62, d (2.3)	6.72, d (2.0)	6.62, d (2.3)	6.71, d (2.0)	6.77, s	6.90, s	-	-	6.80, s	6.93, s
8	2.68, t (7.9)	2.76, t (7.8)	2.69, m	2.79, t (7.8)	2.65, t (7.8)	2.73, t (9.8)	2.68, t (7.9)	2.90, t (7.8)	2.66, t (7.9)	2.74, t (7.8)
9	1.48, m	1.57, m	1.47, m	1.57, m	1.48, m	1.57, m	1.55, m	1.64, m	1.50, m	1.58, m
10	0.85, t (7.3)	0.89, t (7.5)	0.82, t (7.3)	0.88, t (7.5)	0.84, t (7.4)	0.88, t (7.3)	0.85, t (7.4)	0.93, t (7.5)	0.86, t (7.4)	0.89, t (7.5)
3'	6.73, s	6.81, s	-	-	6.52, d (2.9)	6.57, d (3.0)	6.42, d (2.9)	6.49, d (2.5)	7.09, s	6.94, s
5'	-	-	6.66, s	6.79, s	6.47, d (2.9)	6.58, d (3.0)	6.40, d (2.9)	6.48, d (2.5)	-	-
6'	-	-	-	-	-	-	-	2.94, t (7.8)	-	-
7'	2.88, t (8.1)	2.99, t (8.0)	2.67, m	2.75, t (7.8)	2.88, t (7.9)	2.98, t (9.8)	2.83, t (7.9)	2.94, t (7.8)	3.16, t (8.1)	3.28, t (8.0)
8'	1.54, m	1.66, m	1.55, m	1.66, m	1.55, m	1.66, m	1.52, m	1.66, m	1.48, m	1.61, m
9'	1.04, t (7.4)	1.09, t (7.5)	0.97, t (7.4)	1.01, t (7.5)	0.94, t (7.4)	1.08, t (7.3)	0.92, t (7.4)	1.00, t (7.5)	1.00, t (7.3)	1.07, t (7.5)
OMe	-	-	-	-	-	-	-	-	3.84, s	3.92, s

^a500 MHz; ^b400 MHz; ^c600 MHz; ^dRecorded in DMSO-*d*₆; ^eRecorded in acetone-*d*₆; ^fRecorded in methanol-*d*₄ P: spiromastixone P, Q: spiromastixone Q, R: spiromastixone R, S: spiromastixone S, T: spiromastixone T. The NMR data of known analogues are cited from the literature (Guo, Z.; Zhu, W.; Zhao, L.; Chen, Y.; Li, S.; Cheng, P.; Ge, H.; Tan, R.; Jiao, R. New antibacterial depsidones from an ant-derived fungus *Spiromastix* sp. MY-1, Chin. J. Nat. Med. 2022, 20, 627-632).

P

Table S13. Comparison of the ^{13}C NMR data of **12-16** to spiromastixones P-T (δ_{C} ppm)

Position	12 ^{a,d}	P ^{b,e}	13 ^{a,d}	Q ^{a,e}	14 ^{a,d}	R ^{b,e}	15 ^{a,d}	S ^{a,f}	16 ^{a,d}	T ^{a,e}
1	111.4, C	113.1, C	111.2, C	113.1, C	112.9, C	114.8, C	100.0, C	116.7, C	112.4, C	114.0, C
2	162.7, C	162.8, C	162.6, C	162.7, C	160.6, C	159.4, C	160.6, C	156.9, C	160.5, C	159.9, C
3	105.1, CH	105.7, CH	105.1, CH	105.8, CH	98.9, C	99.4, C	101.7, C	101.1, C	98.9, C	99.4, C
4	162.6, C	163.1, C	162.3, C	163.1, C	159.5, C	161.5, C	160.6, C	160.8, C	159.6, C	161.4, C
5	115.6, CH	116.1, CH	115.7, CH	116.2, CH	114.9, CH	115.5, CH	117.6, C	112.2, C	115.2, CH	115.8, CH
6	149.7, C	150.7, C	149.5, C	150.4, C	147.9, C	149.0, C	144.4, C	147.2, C	148.6, C	149.6, C
7	163.2, C	164.3, C	163.4, C	164.3, C	162.7, C	163.1, C	163.5, C	164.1, C	161.9, C	162.4, C
8	35.5, CH ₂	36.4, CH ₂	35.3, CH ₂	36.3, CH ₂	36.6, CH ₂	36.5, CH ₂	37.2, CH ₂	37.4, CH ₂	35.8, CH ₂	36.6, CH ₂
9	24.7, CH ₂	25.4, CH ₂	24.7, CH ₂	25.4, CH ₂	24.6, CH ₂	25.3, CH ₂	22.9, CH ₂	24.1, CH ₂	24.6, CH ₂	25.3, CH ₂
10	14.3, CH ₃	14.3, CH ₃	14.2, CH ₃	14.3, CH ₃	14.3, CH ₃	14.4, CH ₃	14.6, CH ₃	14.2, CH ₃	14.4, CH ₃	14.3, CH ₃
1'	141.6, C	143.1, C	142.4, C	143.8, C	141.9, C	143.3, C	142.3, C	143.5, C	143.0, C	144.1, C
2'	143.7, C	145.1, C	142.9, C	144.1, C	144.5, C	145.6, C	145.7, C	145.7, C	143.9, C	144.9, C
3'	105.5, CH	106.2, CH	99.2, C	99.8, C	105.5, CH	106.0, CH	105.2, CH	106.0, CH	103.9, CH	103.4, CH
4'	152.4, C	152.8, C	152.6, C	153.0, C	155.4, C	155.9, C	154.9, C	156.6, C	154.3, C	155.3, C
5'	108.3, C	108.7, C	112.7, CH	113.3, CH	113.8, CH	114.2, CH	113.1, C	114.7, C	110.2, C	110.7, C
6'	135.7, C	136.7, C	134.3, C	135.4, C	136.3, C	137.4, C	135.9, C	137.7, C	136.1, C	137.4, C
7'	32.4, CH ₂	33.1, CH ₂	31.2, CH ₂	32.2, CH ₂	32.8, CH ₂	33.8, CH ₂	32.9, CH ₂	34.2, CH ₂	32.9, CH ₂	33.8, CH ₂
8'	22.7, CH ₂	23.4, CH ₂	23.6, CH ₂	24.2, CH ₂	24.4, CH ₂	25.0, CH ₂	24.6, CH ₂	25.4, CH ₂	23.1, CH ₂	23.7, CH ₂
9'	14.5, CH ₃	14.4, CH ₃	14.3, CH ₃	14.2, CH ₃	14.2, CH ₃	14.3, CH ₃	14.3, CH ₃	14.2, CH ₃	14.4, CH ₃	14.2, CH ₃
OMe	-	-	-	-	-	-	-	-	57.4, CH ₃	57.3, CH ₃

^a500 MHz; ^b400 MHz; ^c600 MHz; ^dRecorded in DMSO-*d*₆; ^eRecorded in acetone-*d*₆; ^fRecorded in methanol-*d*₄. P: spiromastixone P, Q: spiromastixone Q, R: spiromastixone R, S: spiromastixone S, T: spiromastixone T. The NMR data of known analogues are cited from the literature (Guo, Z.; Zhu, W.; Zhao, L.; Chen, Y.; Li, S.; Cheng, P.; Ge, H.; Tan, R.; Jiao, R. New antibacterial depsidones from an ant-derived fungus *Spiromastix* sp. MY-1, Chin. J. Nat. Med. 2022, 20, 627-632).