

Supporting Information

Myrtinols A – F: New anti-inflammatory Peltogynoid flavonoid derivatives from the leaves of Australian Indigenous plant *Backhousia myrtifolia*

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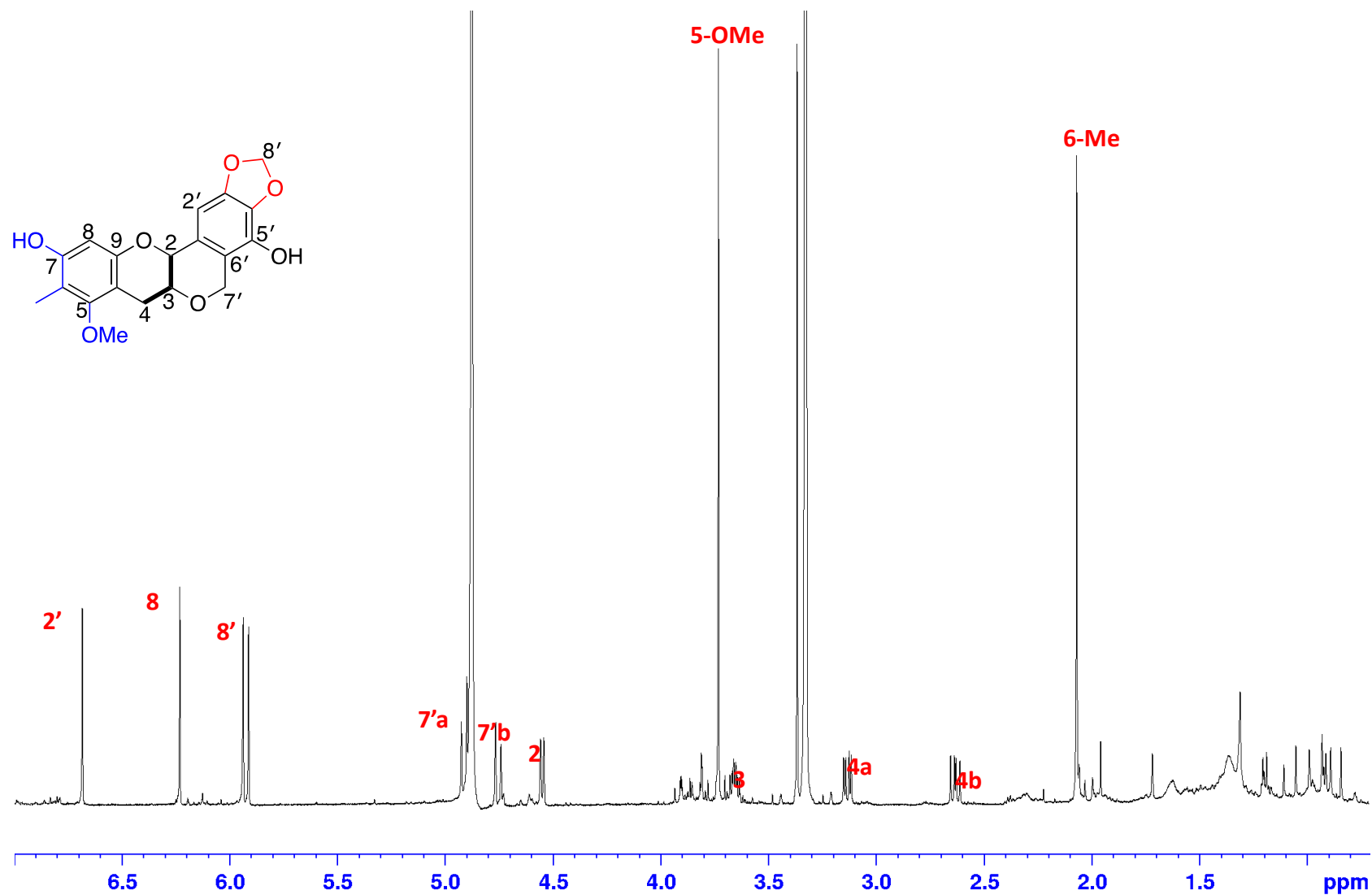


Figure S1. ^1H NMR spectrum of compound **1** (CD_3OD , 600 MHz)

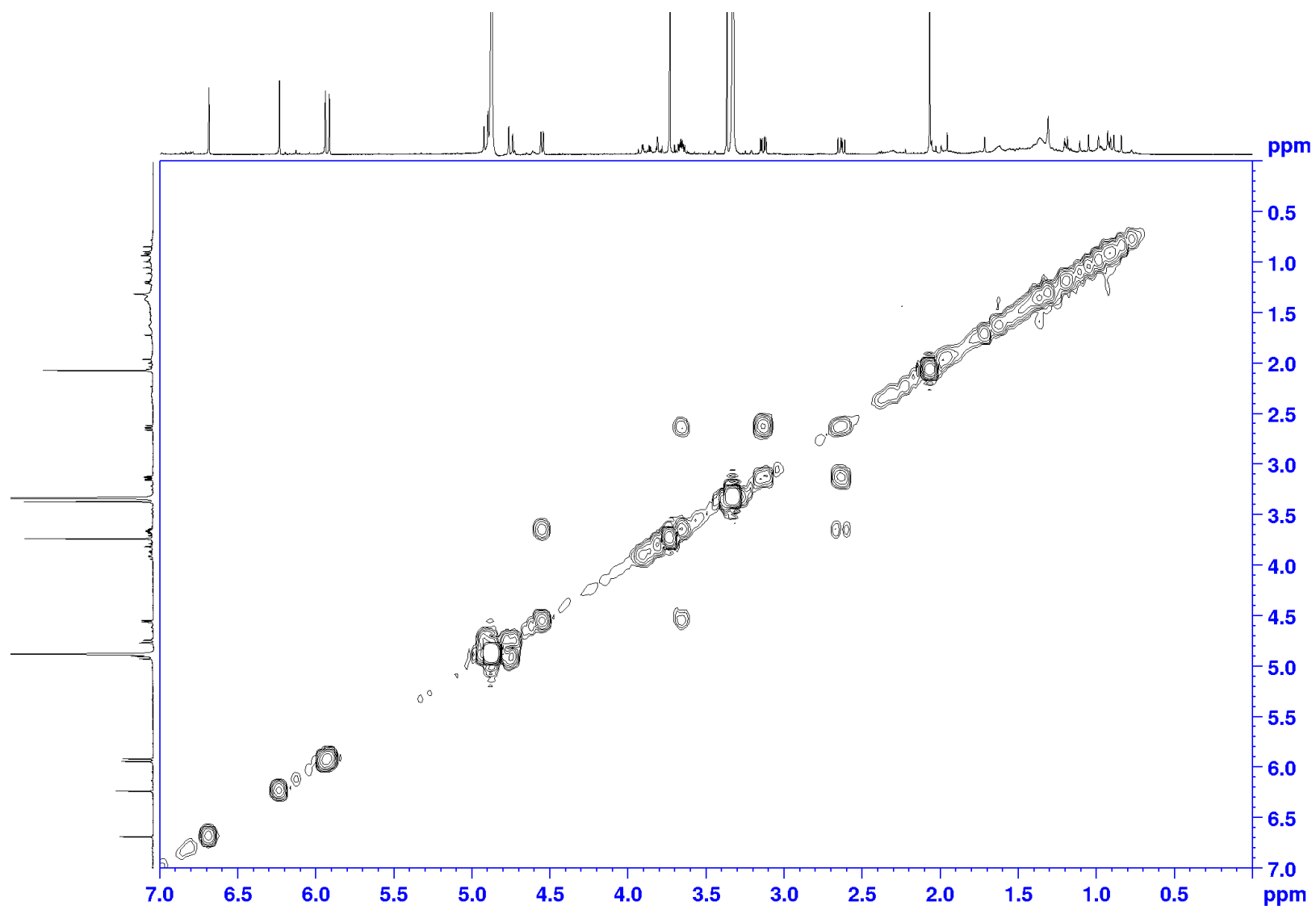


Figure S2. COSY spectrum of compound **1** (CD₃OD, 600 MHz)

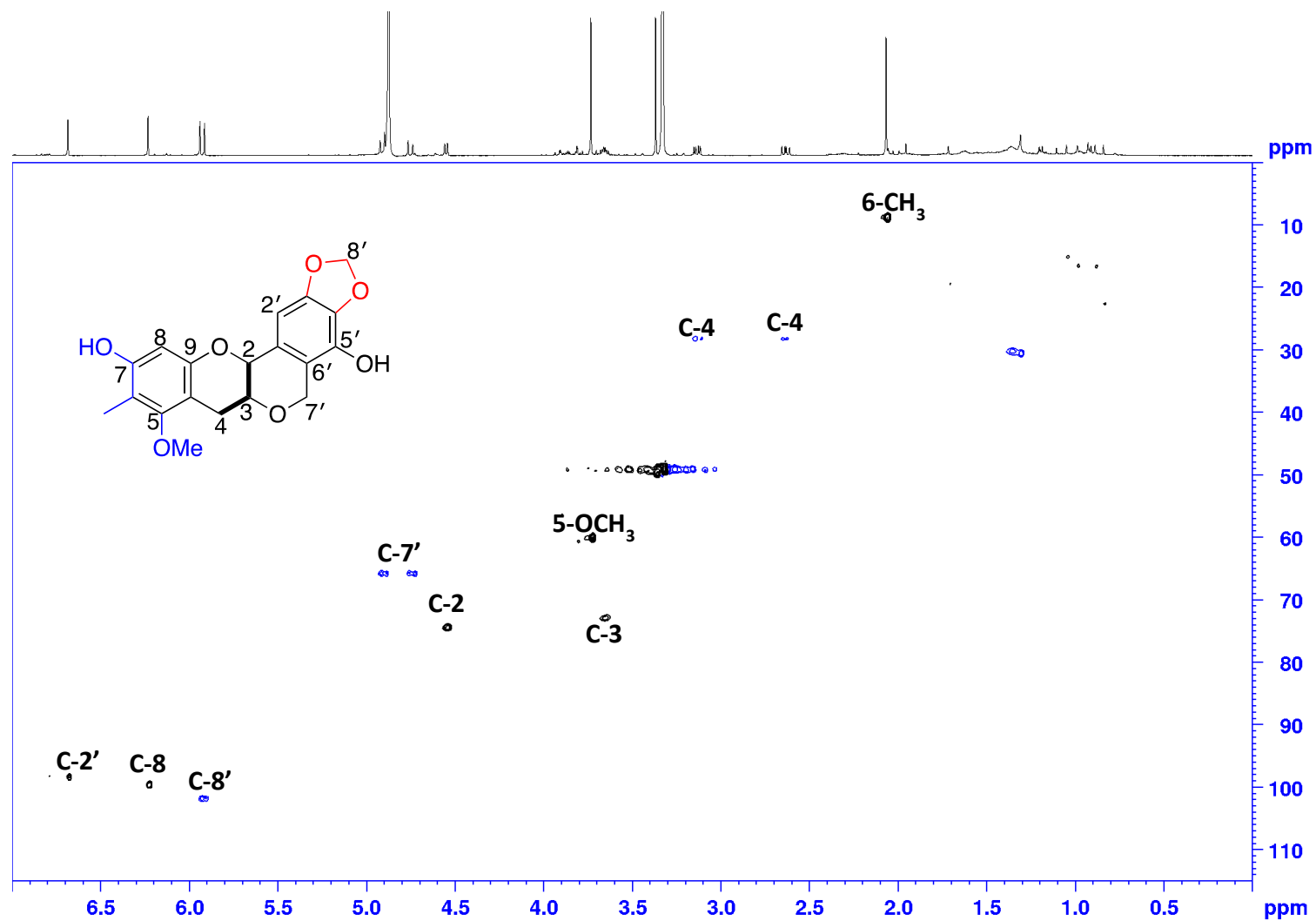


Figure S3. HSQC spectrum of compound 1 (CD₃OD, 600 MHz)

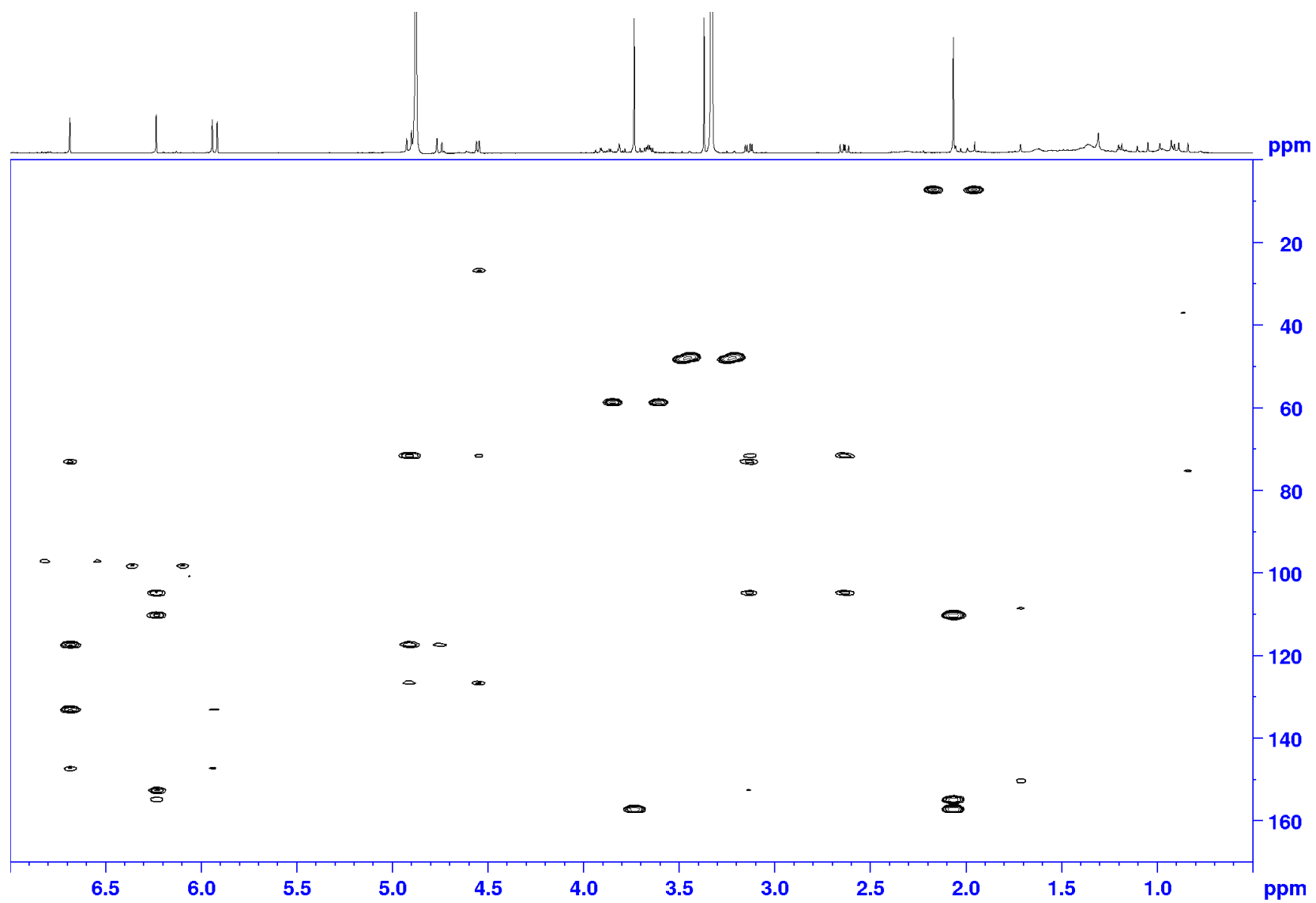


Figure S4. HMBC spectrum of compound **1** (CD₃OD, 600 MHz)

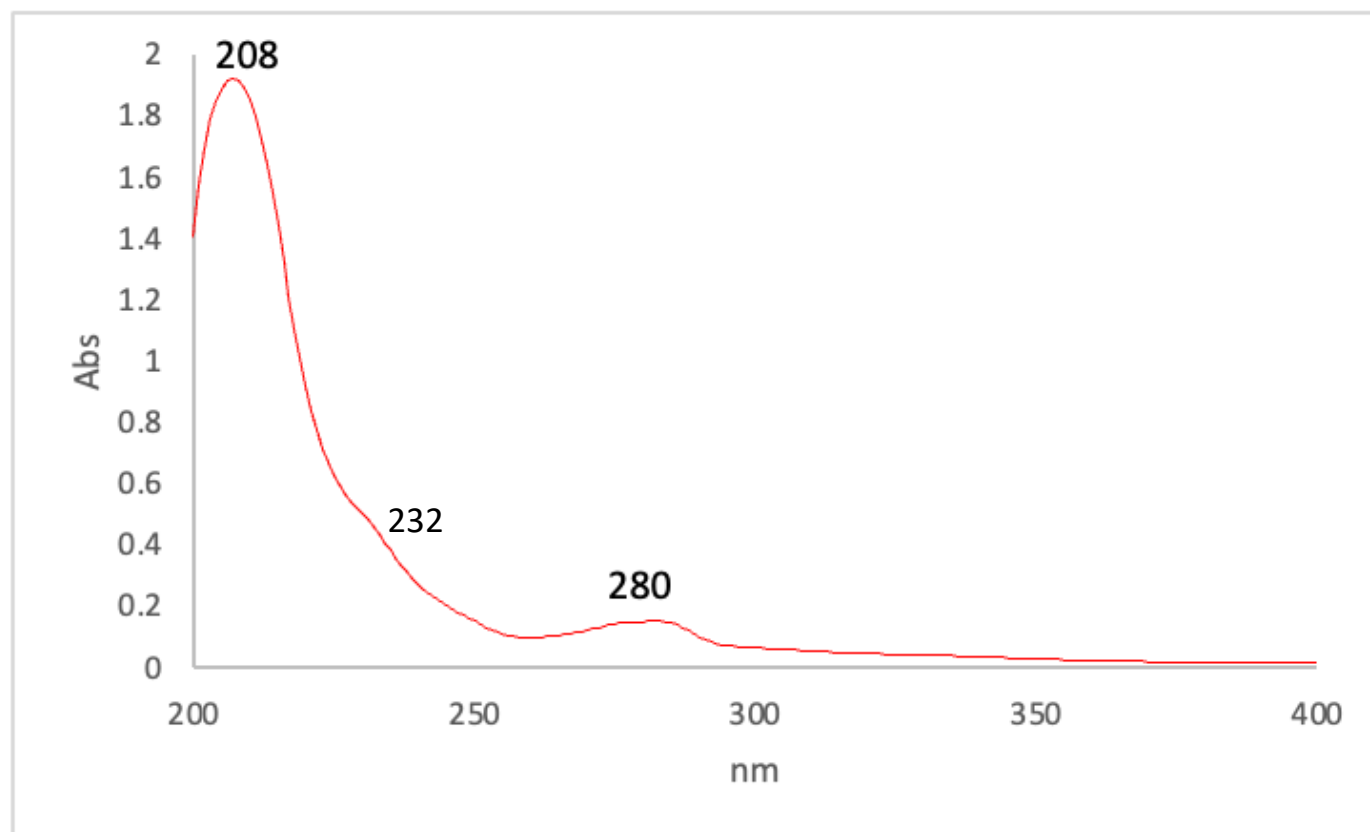


Figure S5. UV-Vis spectrum for compound **1**

Elemental Composition Report

Page 1

Single Mass Analysis

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

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

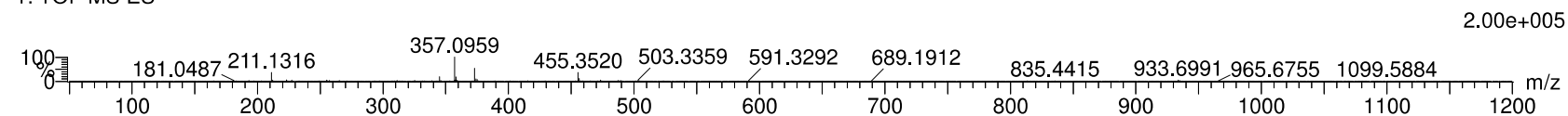
17 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-25 H: 0-30 O: 0-8

011222_BMF-8 124 (2.430) Cm (124)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 5.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
357.0959	357.0974	-1.5	-4.2	11.5	961.0	n/a	n/a	C19 H17 O7

Figure S6. HRMS of compound **1**

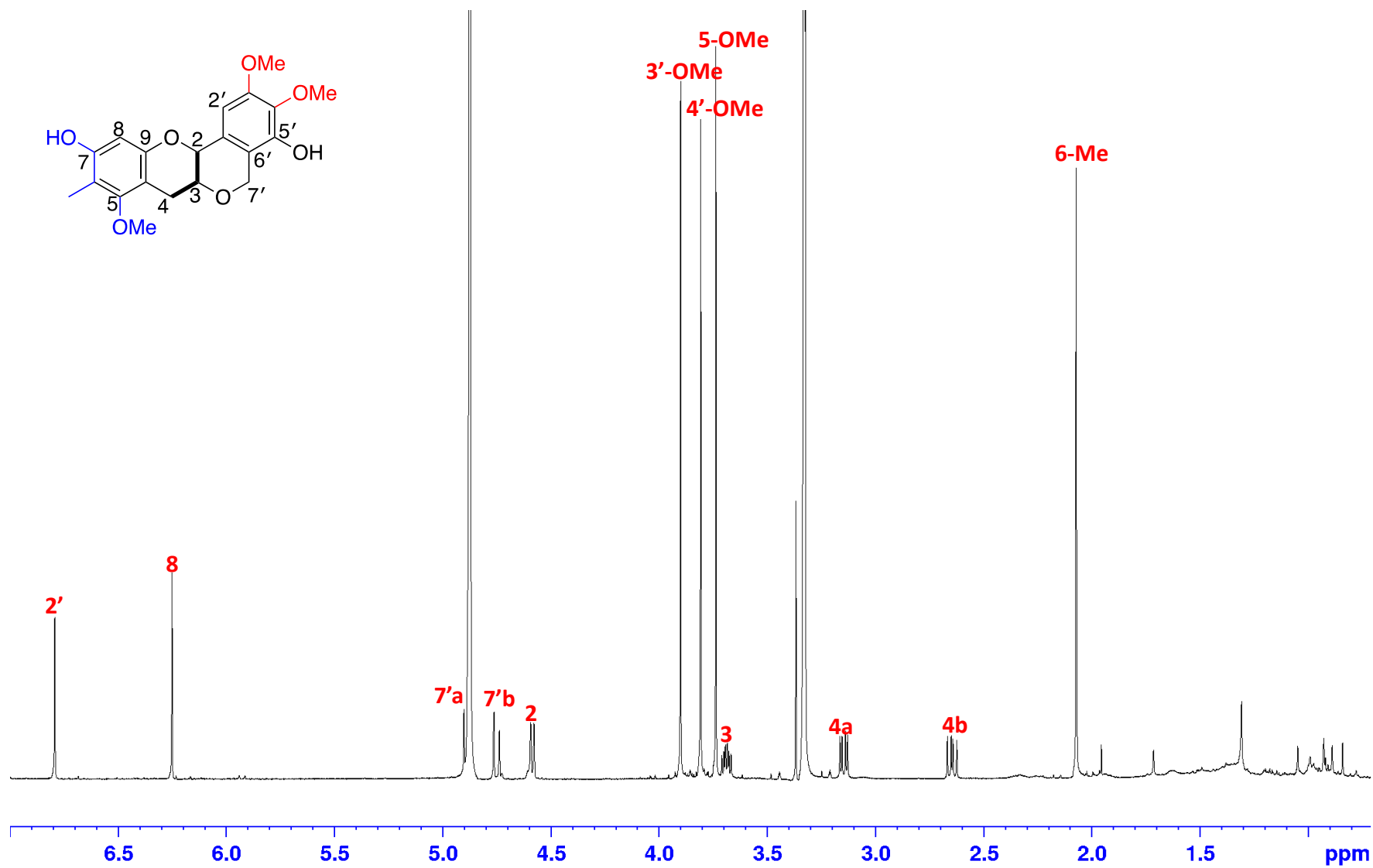
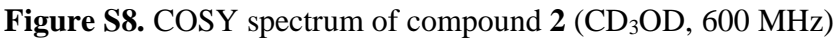


Figure S7. ^1H NMR spectrum of compound **2** (CD_3OD , 600 MHz)



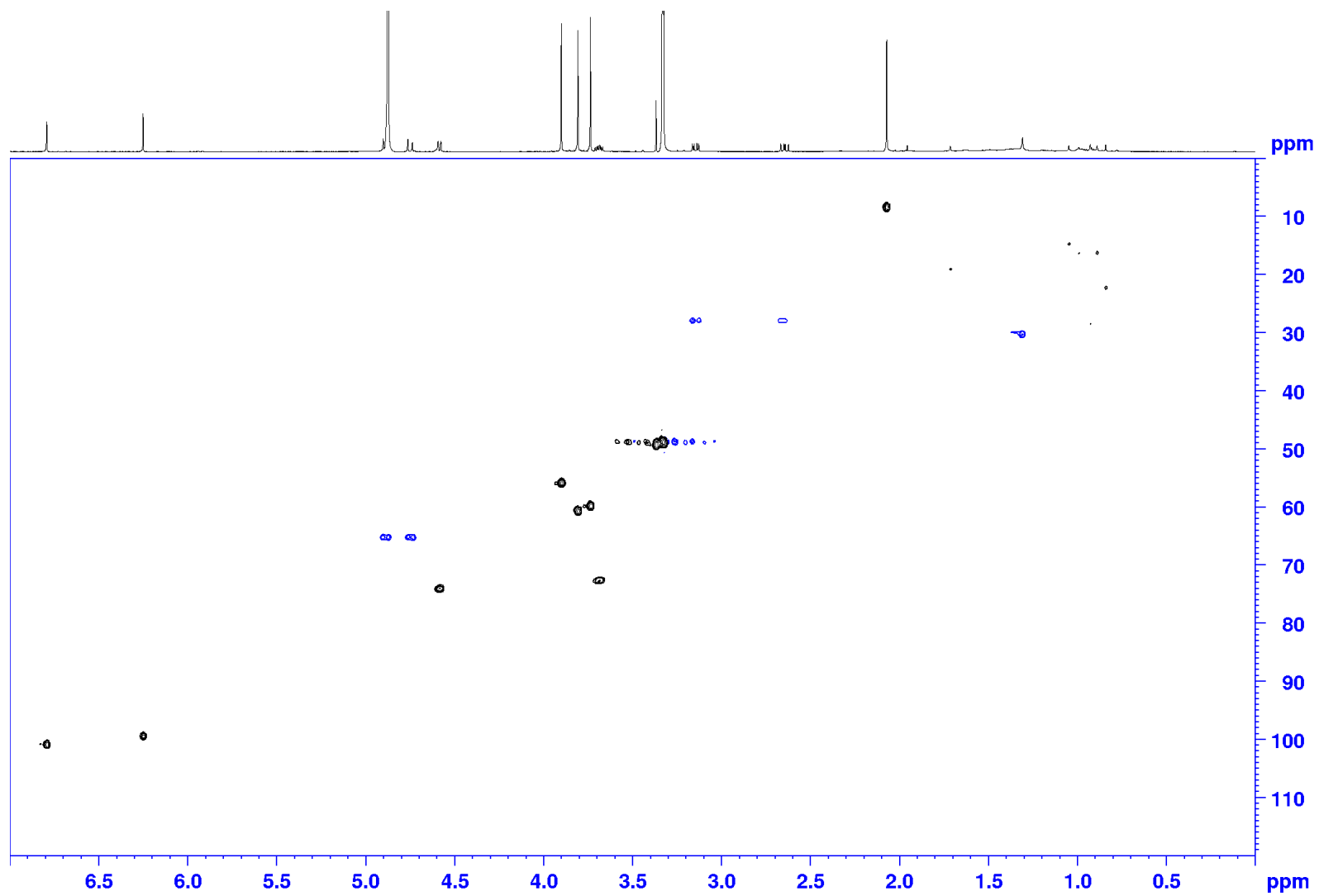


Figure S9. HSQC spectrum of compound **2** (CD_3OD , 600 MHz)

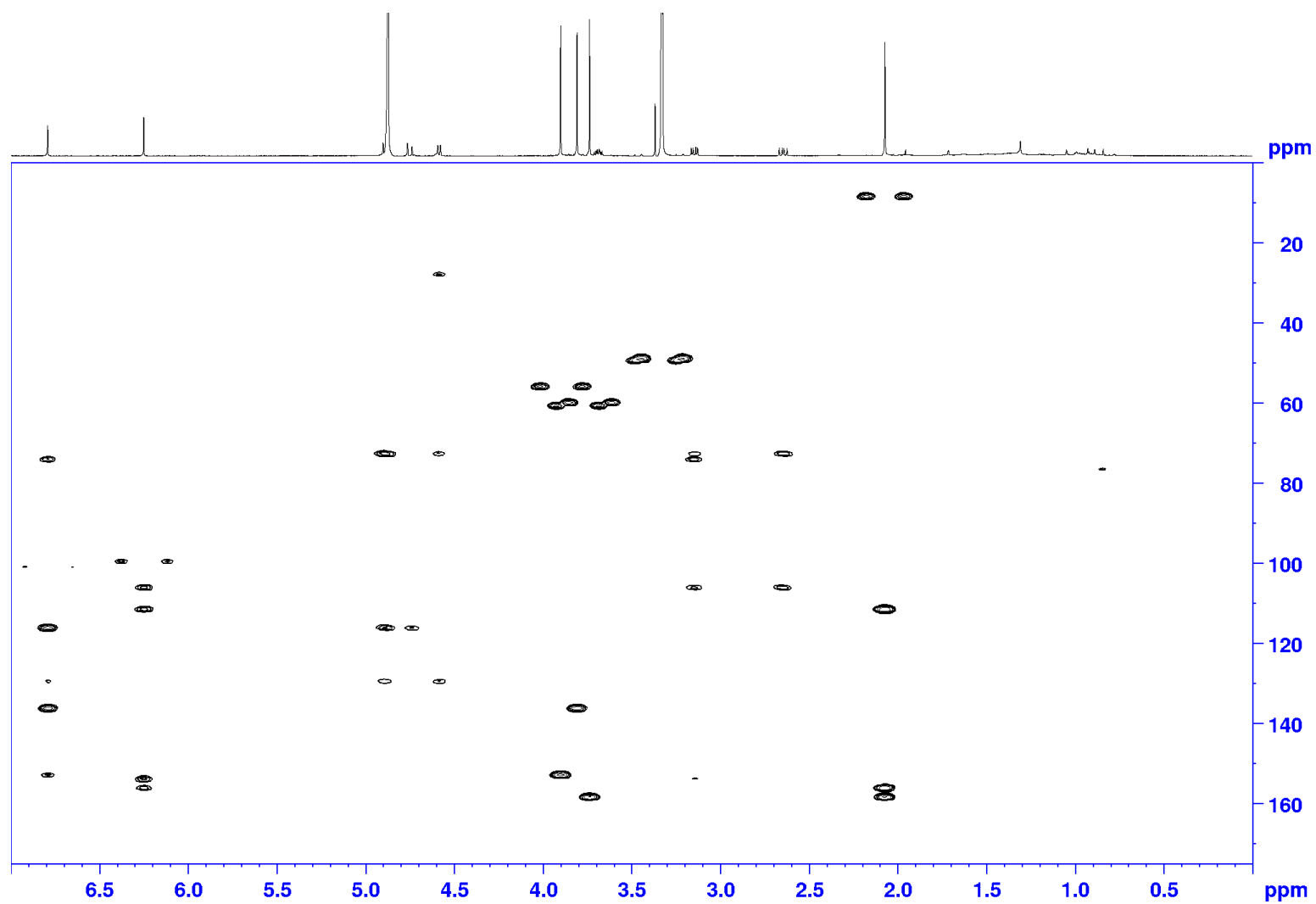


Figure S10. HMBC spectrum of compound **2** (CD₃OD, 600 MHz)

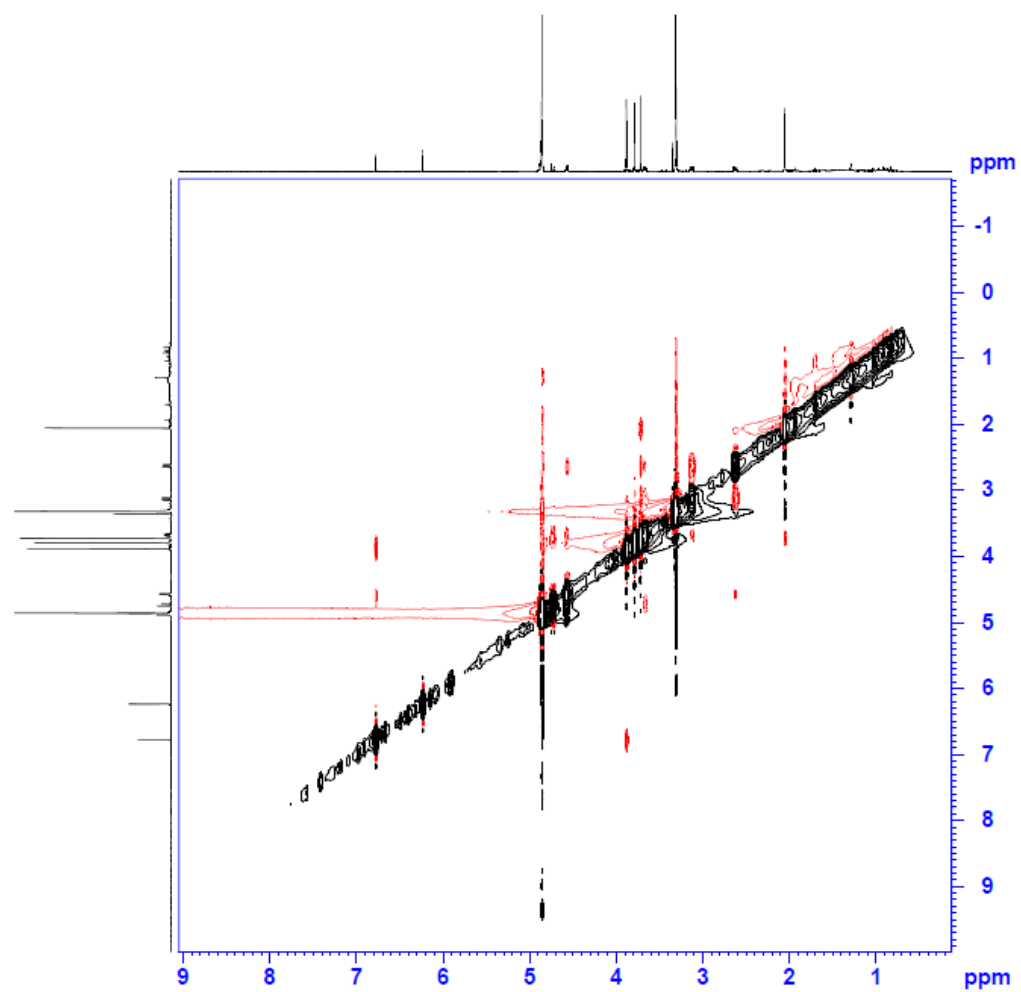


Figure S11. NOESY spectrum of compound **2** (CD₃OD, 600 MHz)

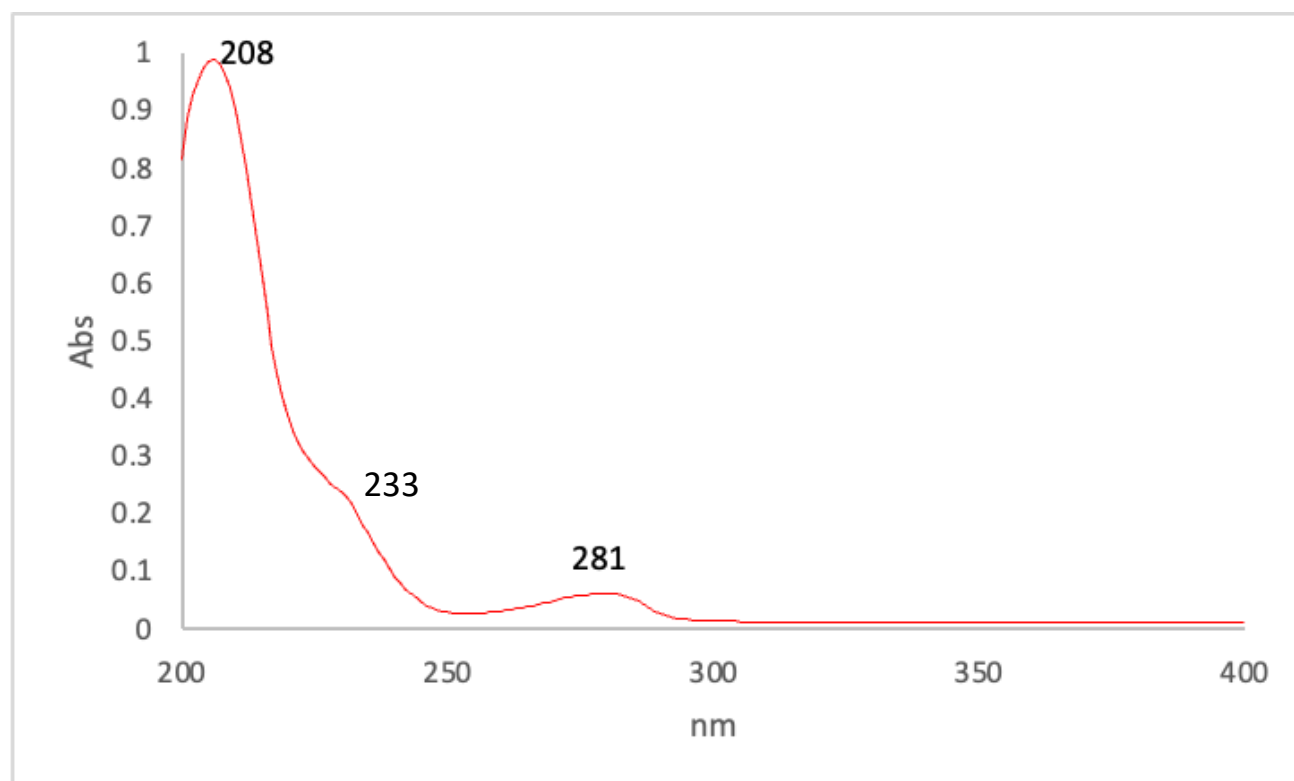


Figure S12. UV-Vis spectrum for compound **2**

Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

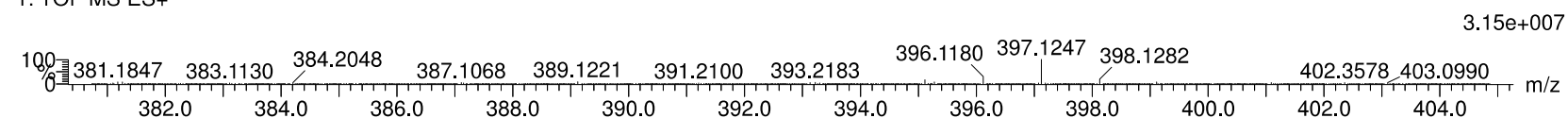
16 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-20 H: 0-26 O: 0-8 Na: 0-1

220829_BM_F9 68 (1.345) Cm (67:80)

1: TOF MS ES+



Minimum: -1.5
Maximum: 20.0 10.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
397.1247	397.1263	-1.6	-4.0	9.5	6422.9	n/a	n/a	C20 H22 O7 Na

Figure S13. HRMS of compound 2

Table S1. Crystallographic data for compound **2**

CCDC number	2236594
Empirical formula	C ₂₀ H ₂₁ O ₇
Formula weight	373.37
Temperature/K	100.0
Crystal system	triclinic
Space group	P1
a/Å	8.7800(18)
b/Å	8.9200(18)
c/Å	11.620(2)
α /°	84.56(3)
β /°	81.25(3)
γ /°	76.39(3)
Volume/Å ³	872.6(3)
Z	2
ρ_{calc} /cm ³	1.421
μ /mm ⁻¹	0.108
F(000)	394.0
Crystal size/mm ³	0.2 × 0.1 × 0.1
Radiation	MoK α (λ = 0.71073)
2 Θ range for data collection/°	3.552 to 57.202
Index ranges	-11 ≤ h ≤ 11, -11 ≤ k ≤ 11, -15 ≤ l ≤ 15
Reflections collected	20884
Independent reflections	6838 [R_{int} = 0.0191, R_{sigma} = 0.0186]
Data/restraints/parameters	6838/3/499
Goodness-of-fit on F ²	1.048
Final R indexes [$I \geq 2\sigma(I)$]	R_1 = 0.0383, wR_2 = 0.1031
Final R indexes [all data]	R_1 = 0.0387, wR_2 = 0.1045
Largest diff. peak/hole / e Å ⁻³	0.36/-0.56
Flack parameter	0.06(13)

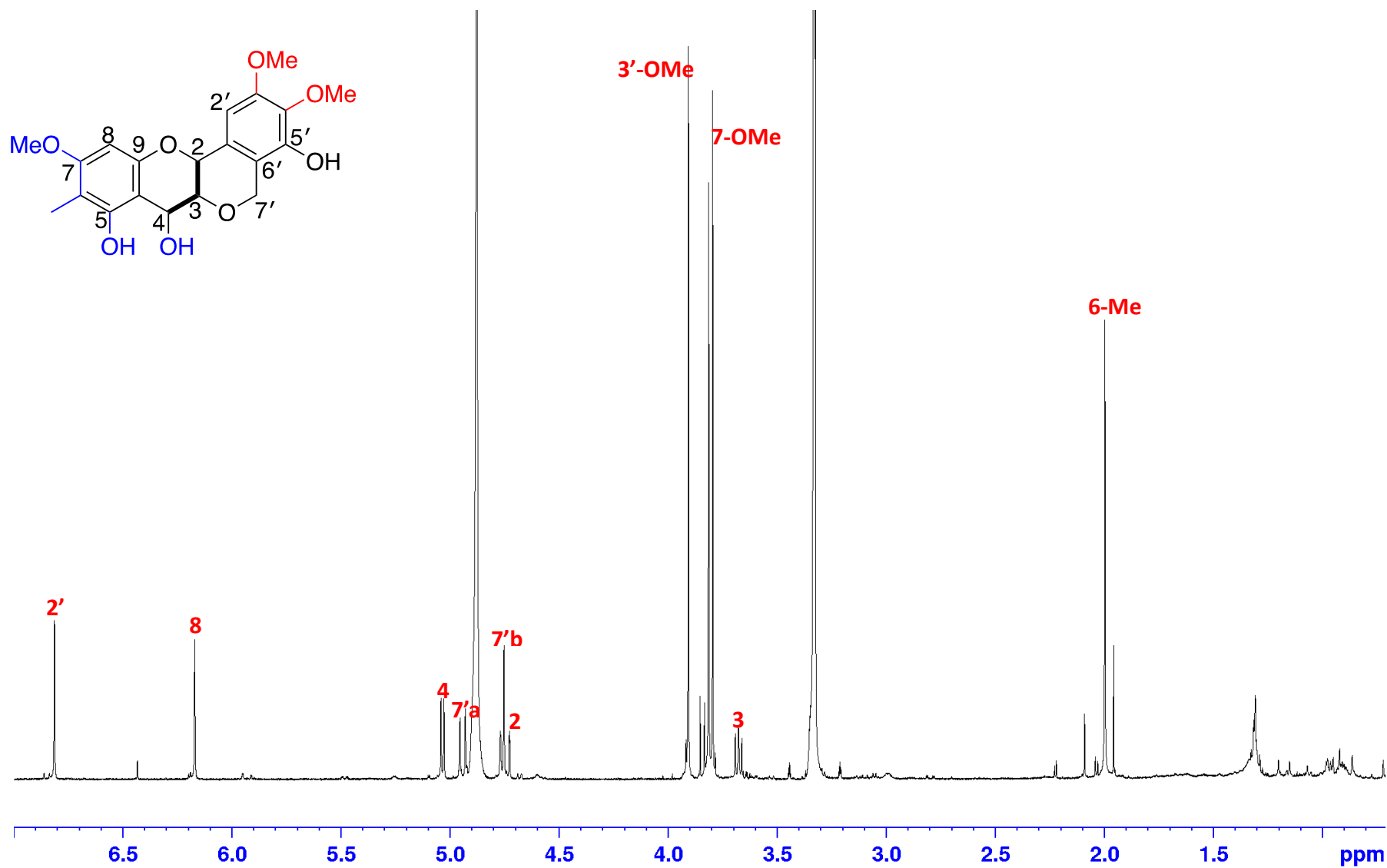


Figure S14. ^1H NMR spectrum of compound **3** (CD_3OD , 600 MHz)

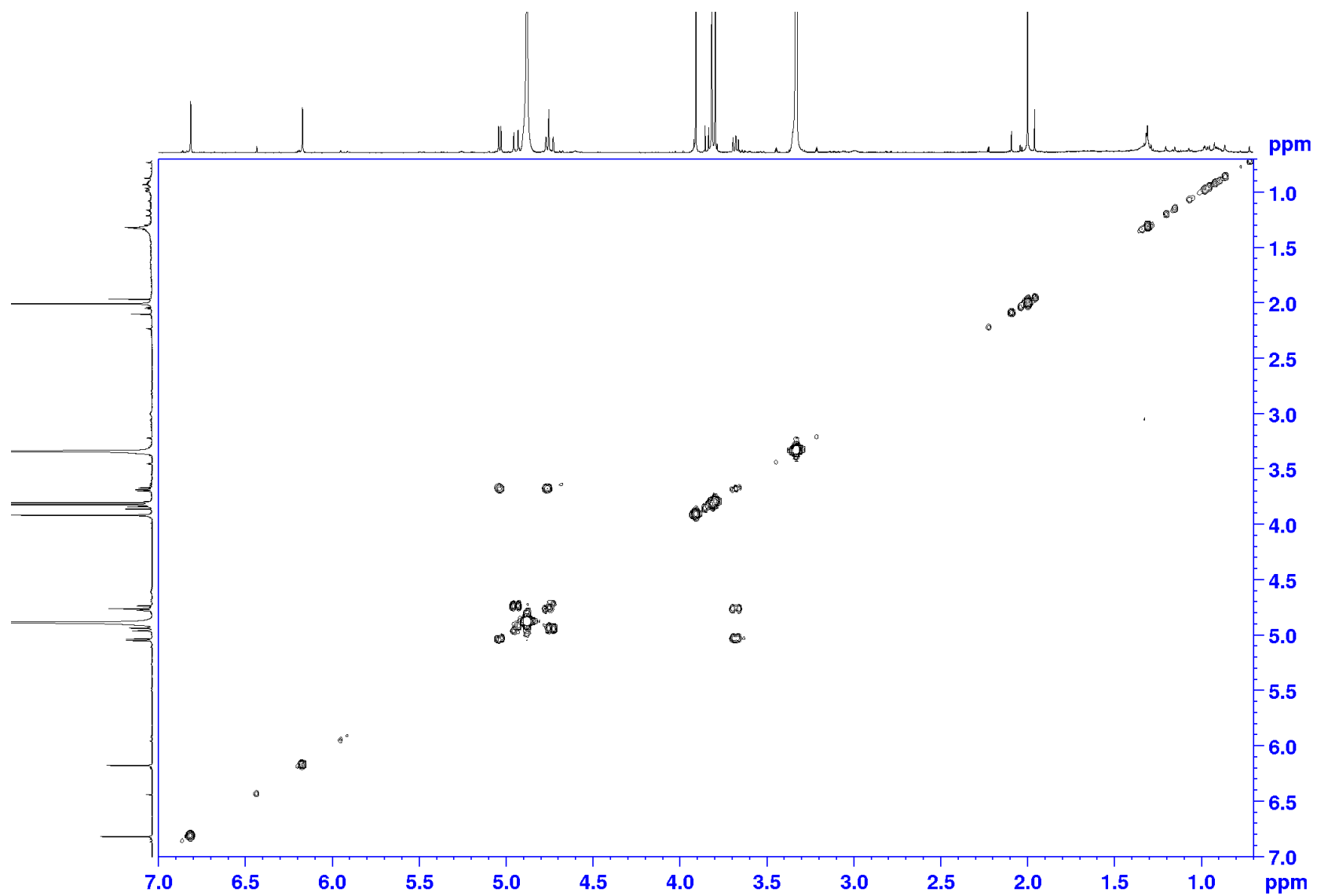


Figure S15. COSY spectrum of compound **3** (CD₃OD, 600 MHz)

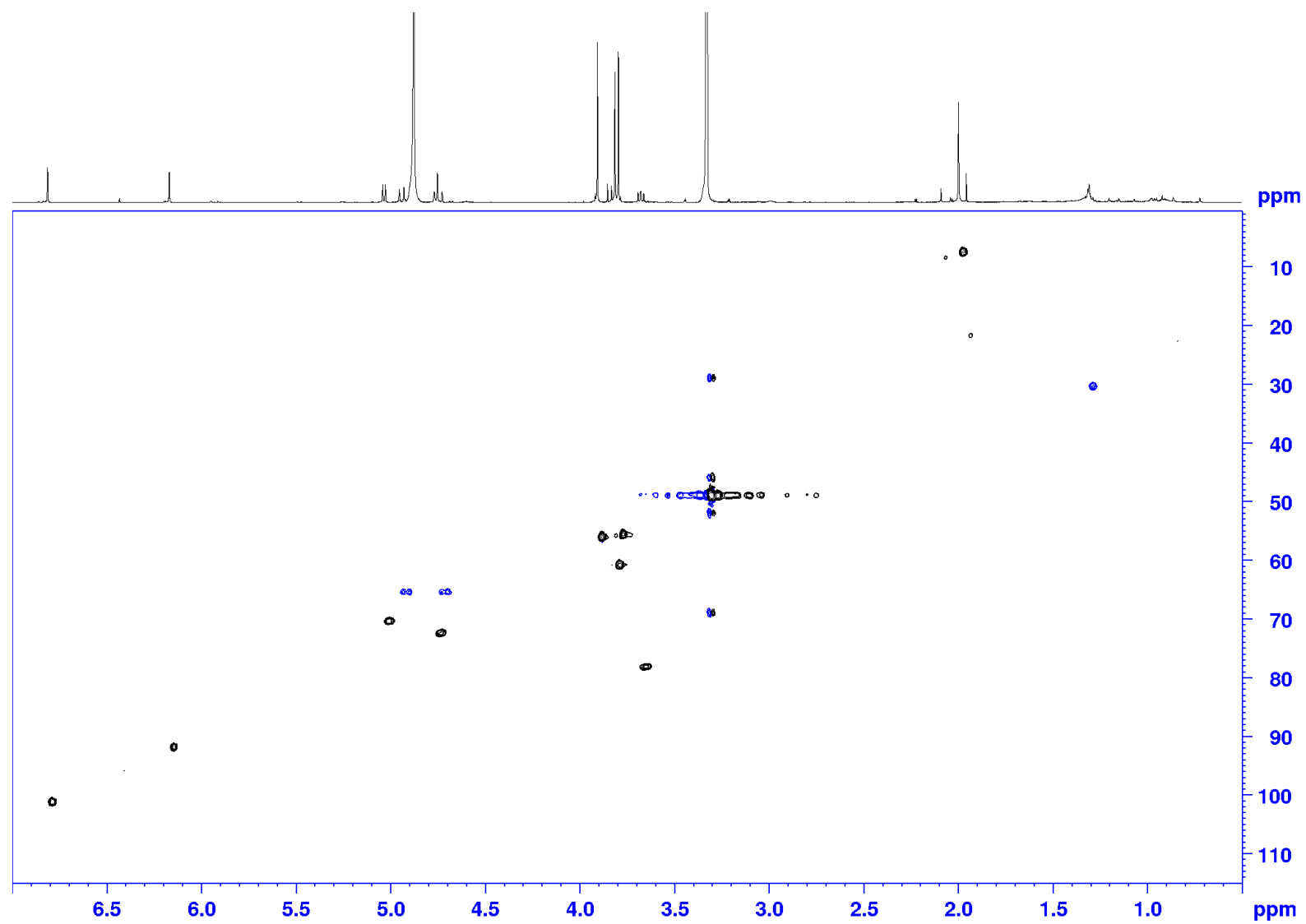


Figure S16. HSQC spectrum of compound **3** (CD₃OD, 600 MHz)

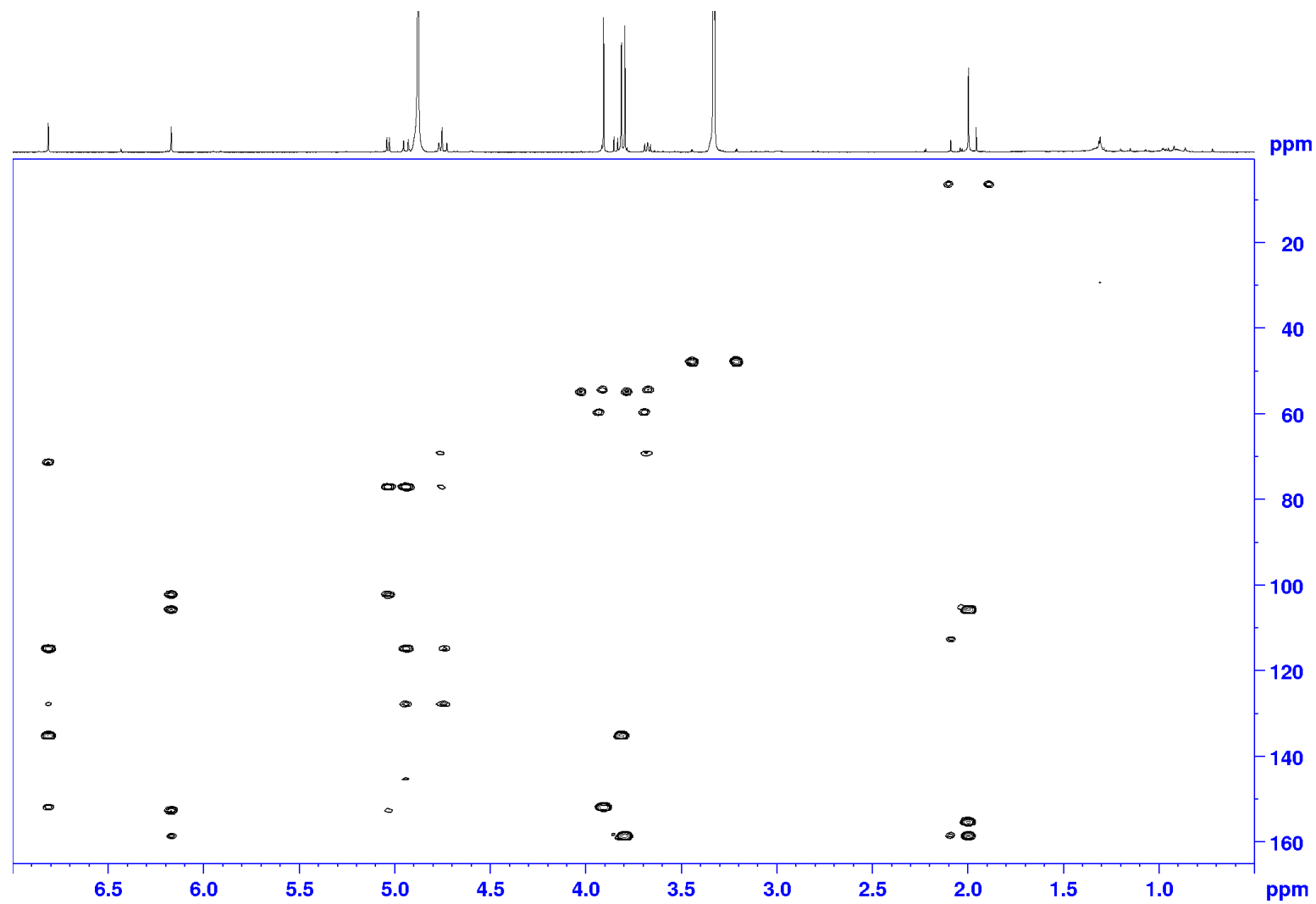


Figure S17. HMBC spectrum of compound **3** (CD₃OD, 600 MHz)

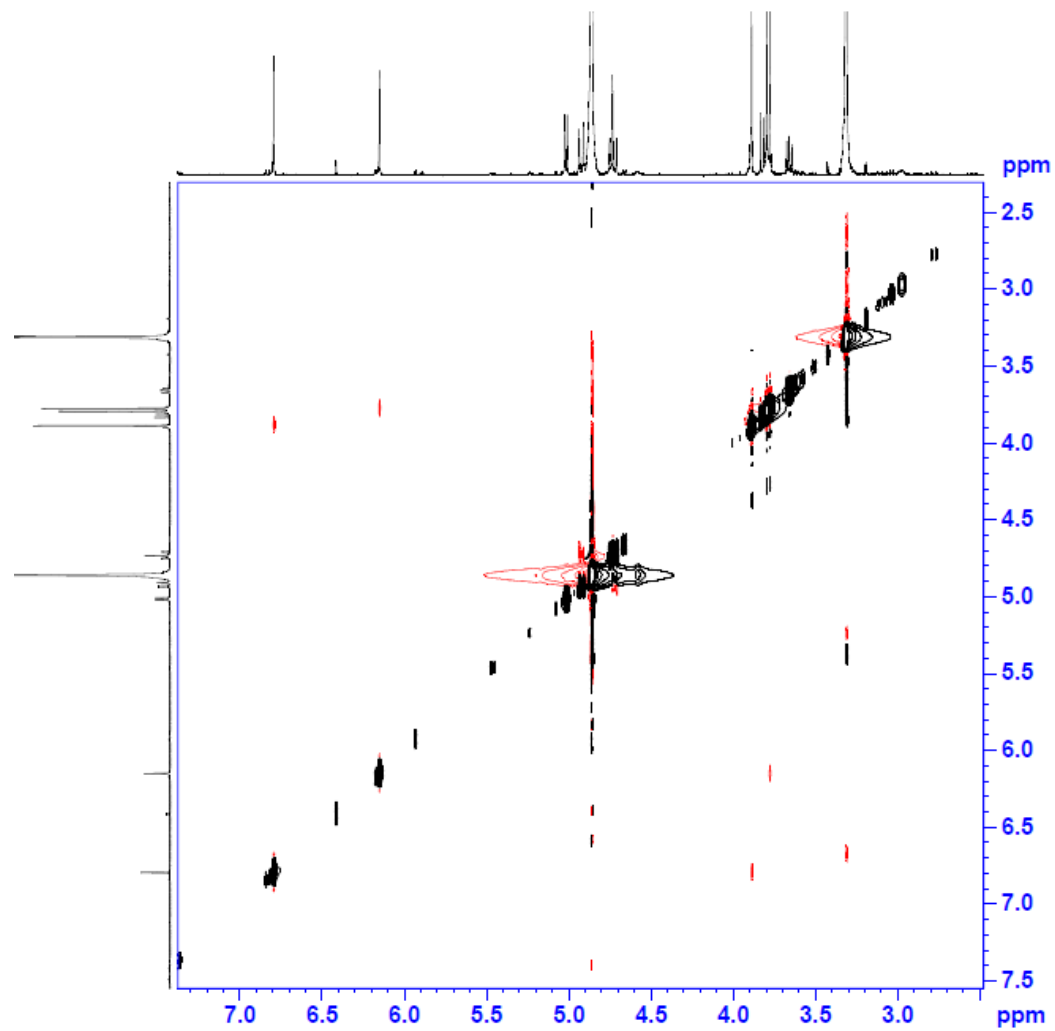


Figure S18. NOESY spectrum of compound **3** (CD₃OD, 600 MHz)

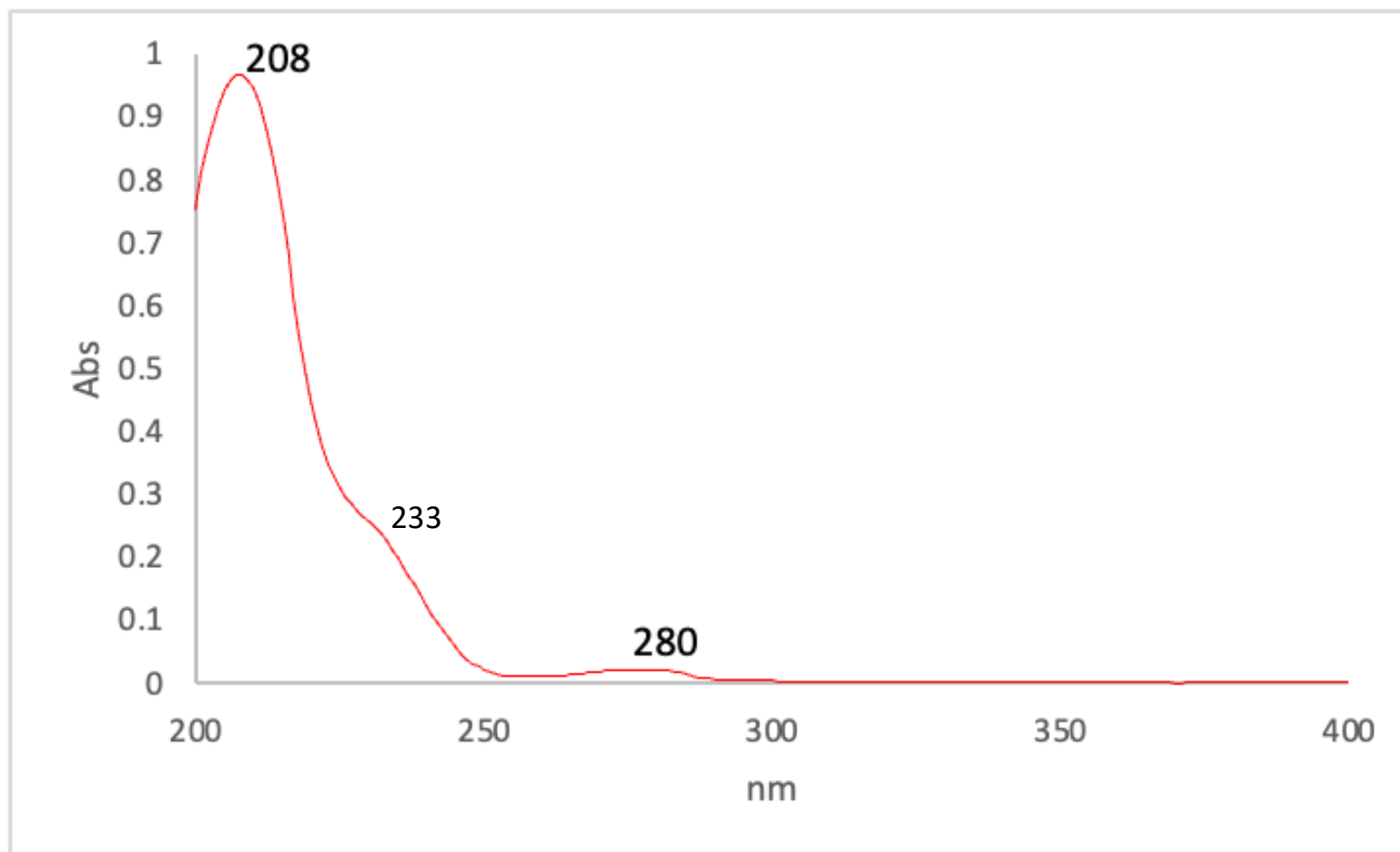


Figure S19. UV-Vis spectrum for compound **3**

Elemental Composition Report

Page 1

Single Mass Analysis

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

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

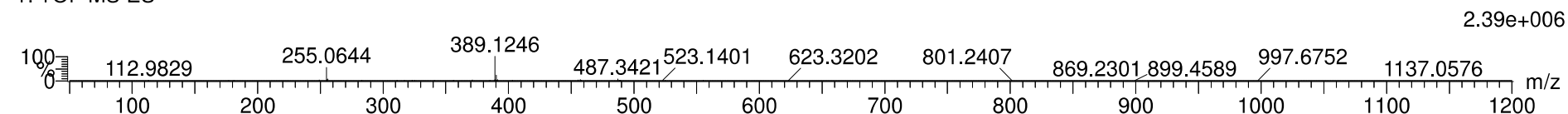
13 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-25 H: 0-30 O: 0-8

011222_BMF-11A 123 (2.413) Cm (123)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 5.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
389.1246	389.1236	1.0	2.6	10.5	2068.4	n/a	n/a	C20 H21 O8

Figure S20. HRMS spectrum for compound 3

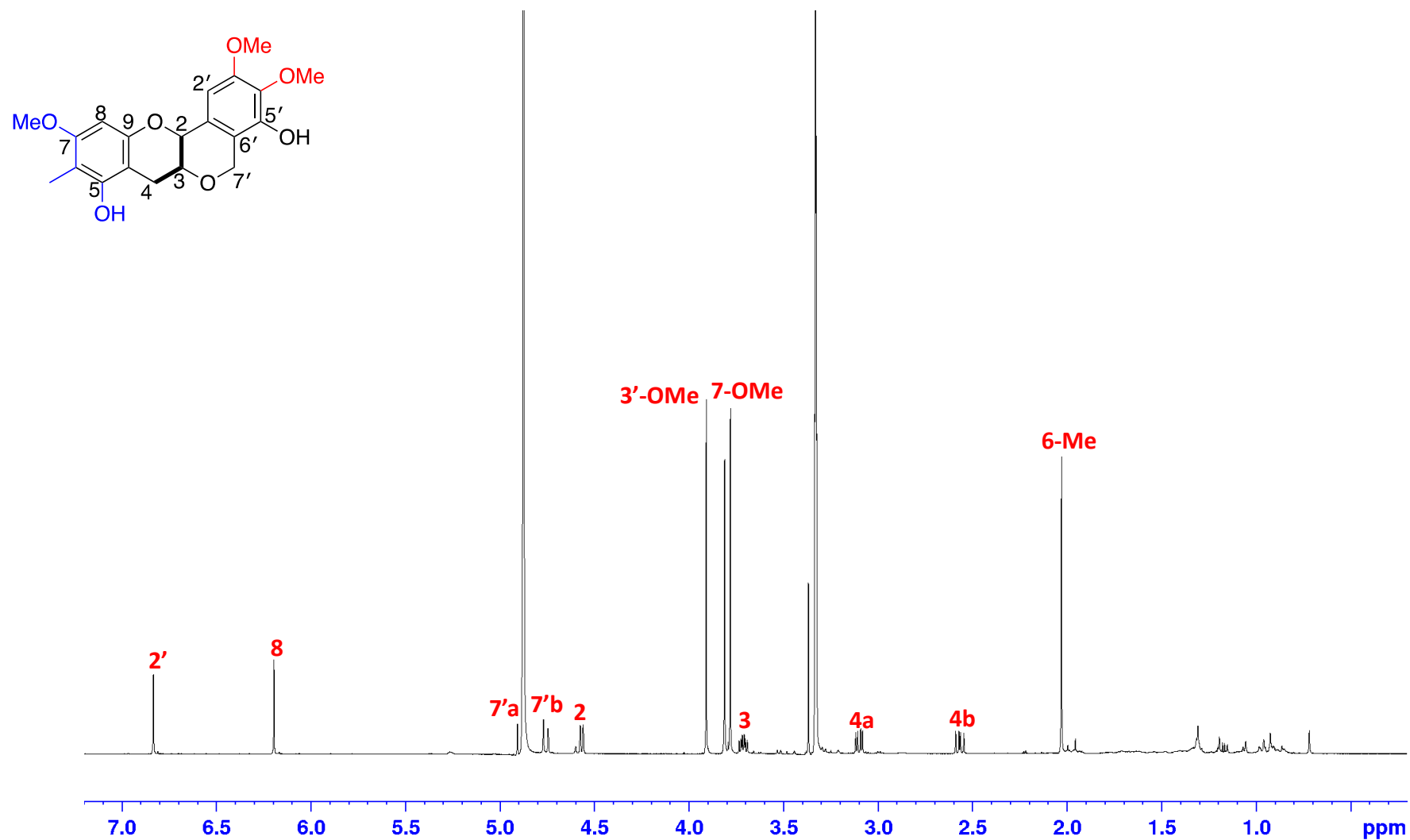


Figure S21. ^1H NMR spectrum of compound **4** (CD_3OD , 600 MHz)

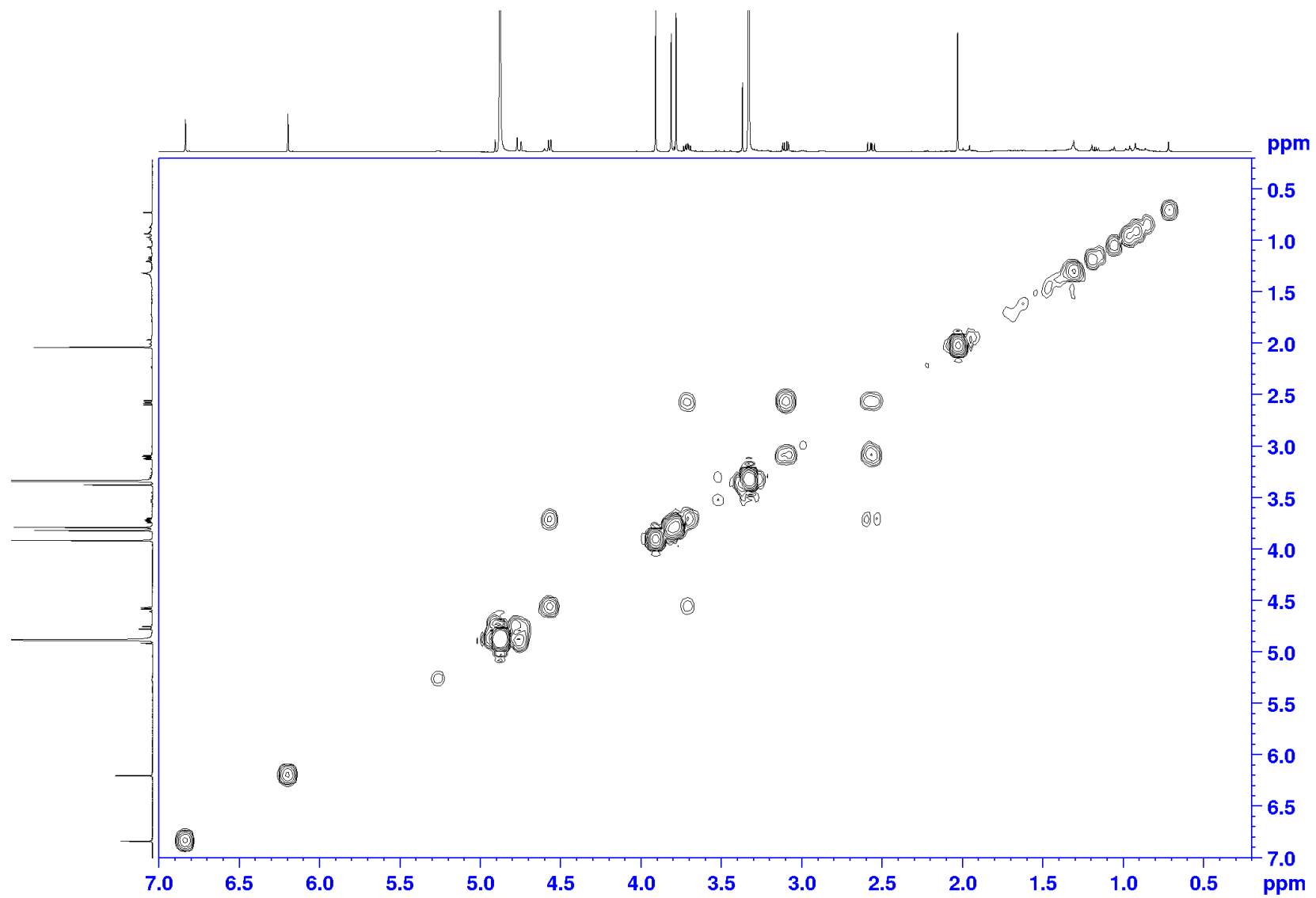


Figure S22. COSY spectrum of compound **4** (CD₃OD, 600 MHz)

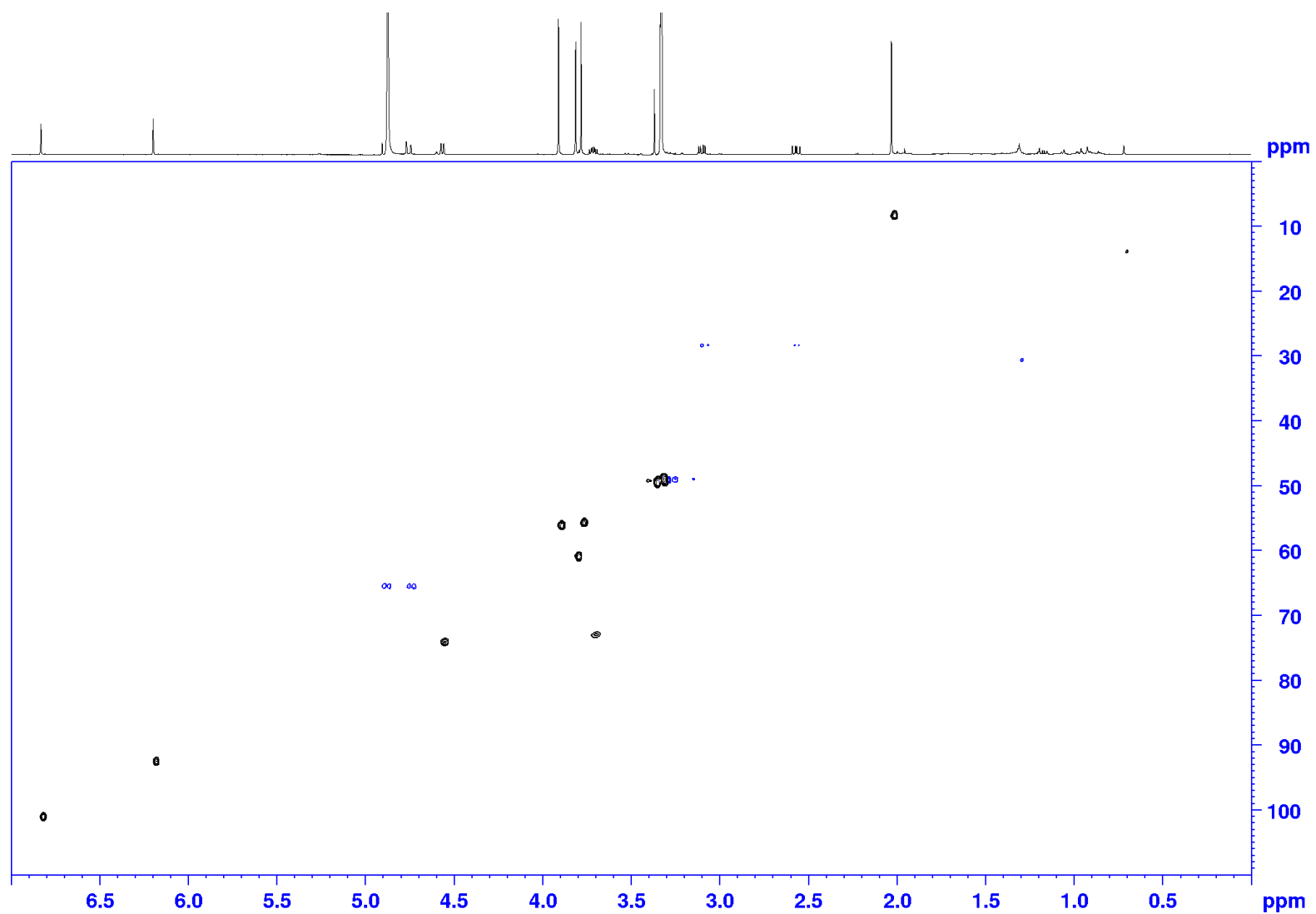


Figure S23. HSQC spectrum of compound **4** (CD_3OD , 600 MHz)

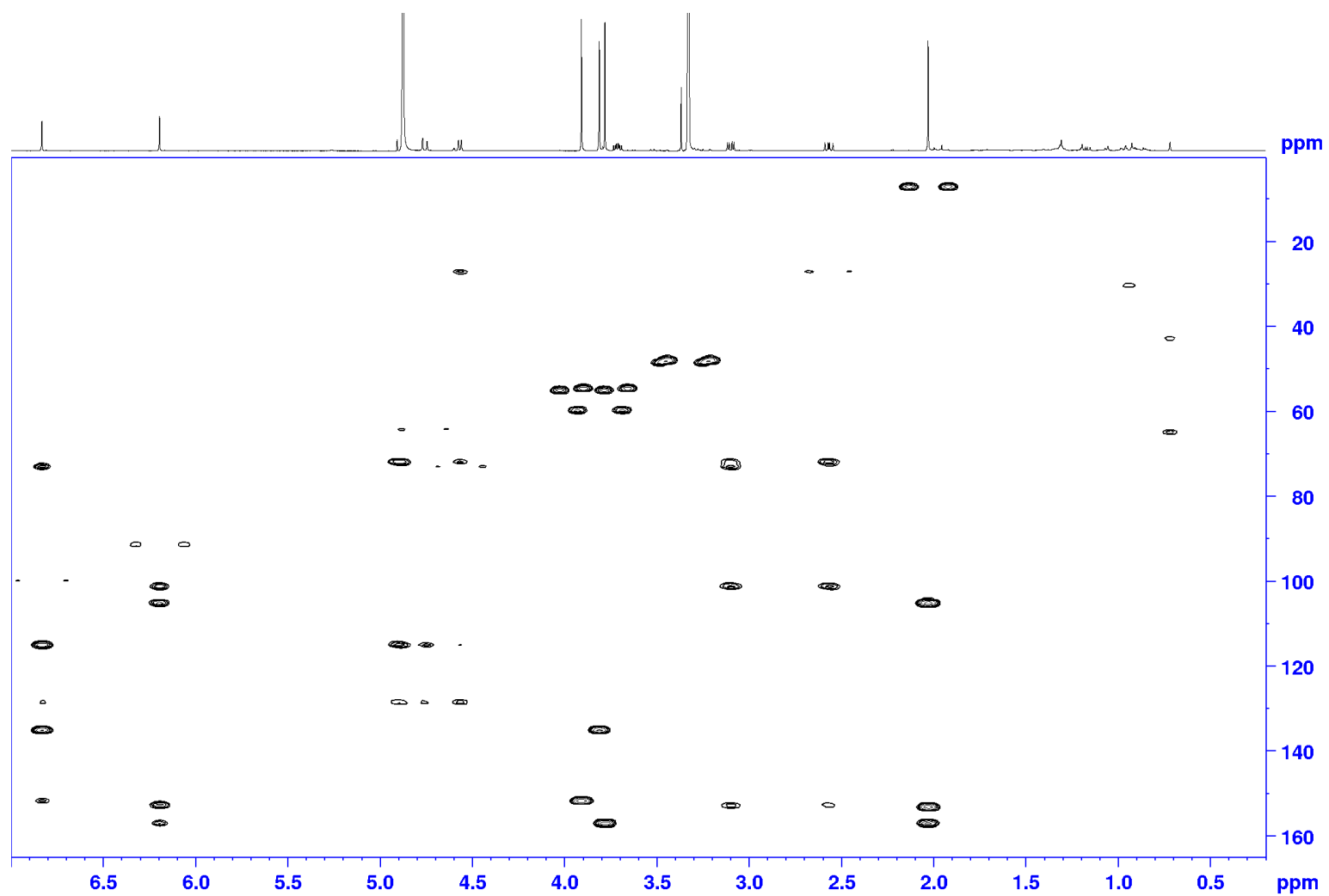


Figure S24. HMBC spectrum of compound **4** (CD₃OD, 600 MHz)

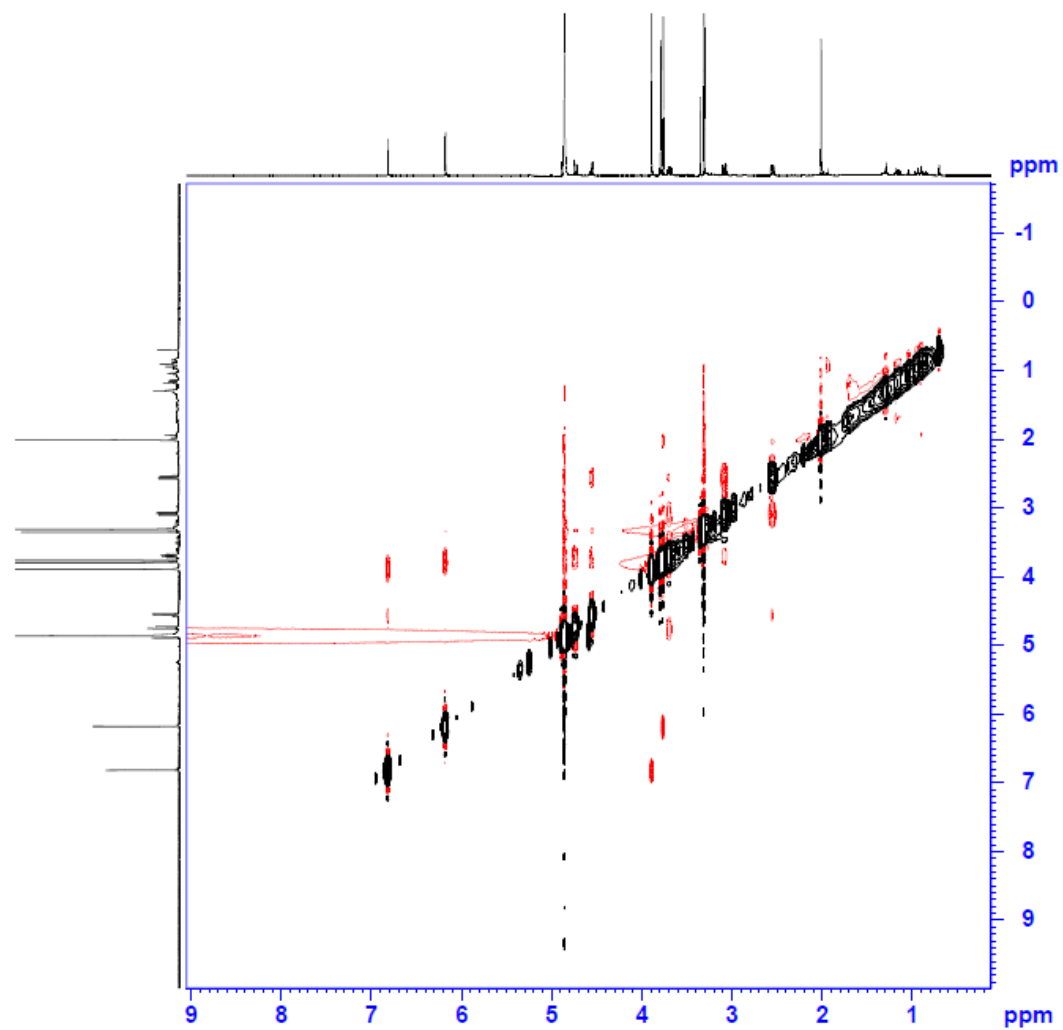


Figure S25. NOESY spectrum of compound **4** (CD₃OD, 600 MHz)

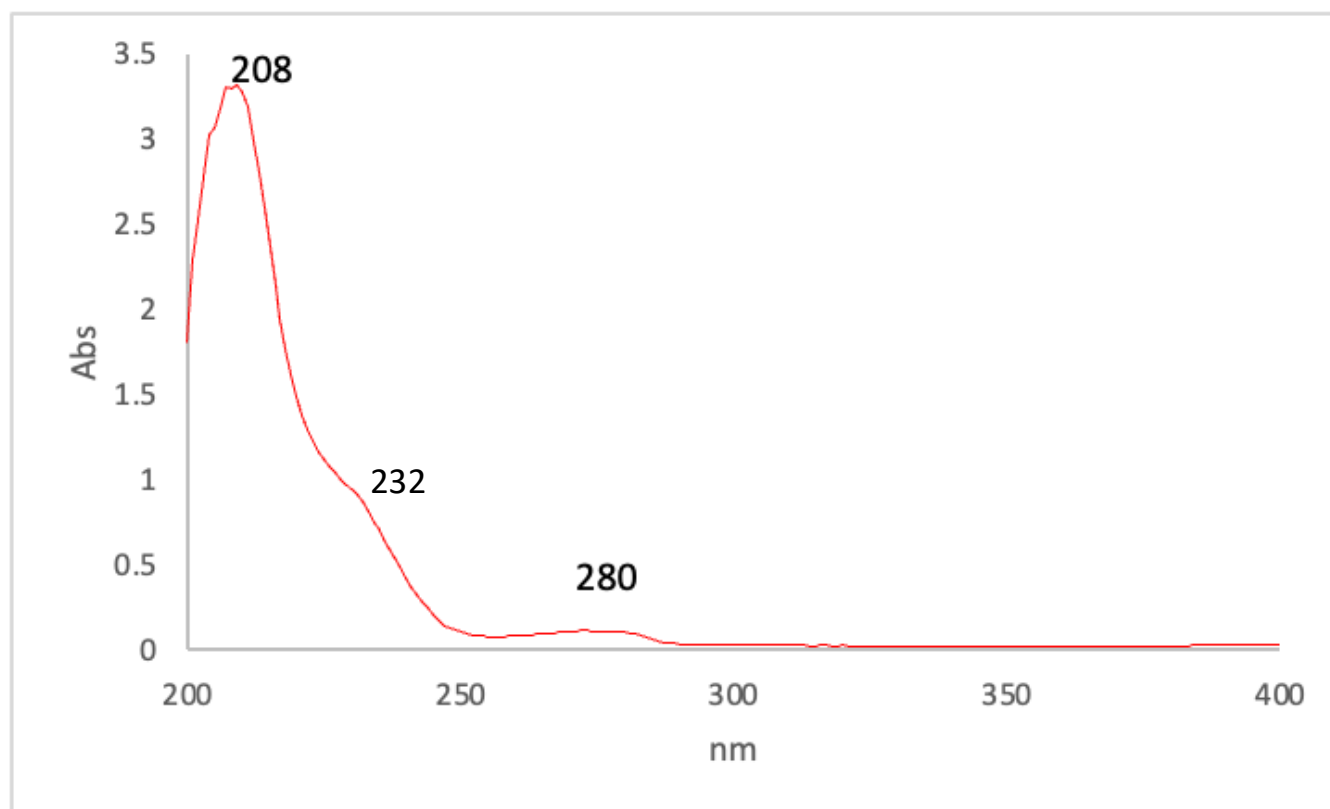


Figure S26. UV-Vis spectrum for compound **4**

Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

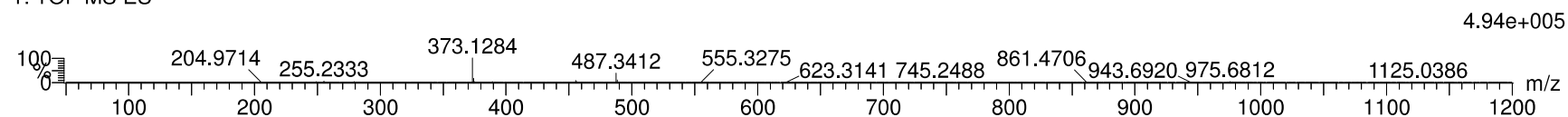
9 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-20 H: 0-22 O: 0-8

221103_BM_F11B_neg 17 (0.364) Cm (15:17)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 10.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
373.1284	373.1287	-0.3	-0.8	10.5	1444.6	n/a	n/a	C20 H21 O7

Figure S27. HRMS spectrum for compound **4**

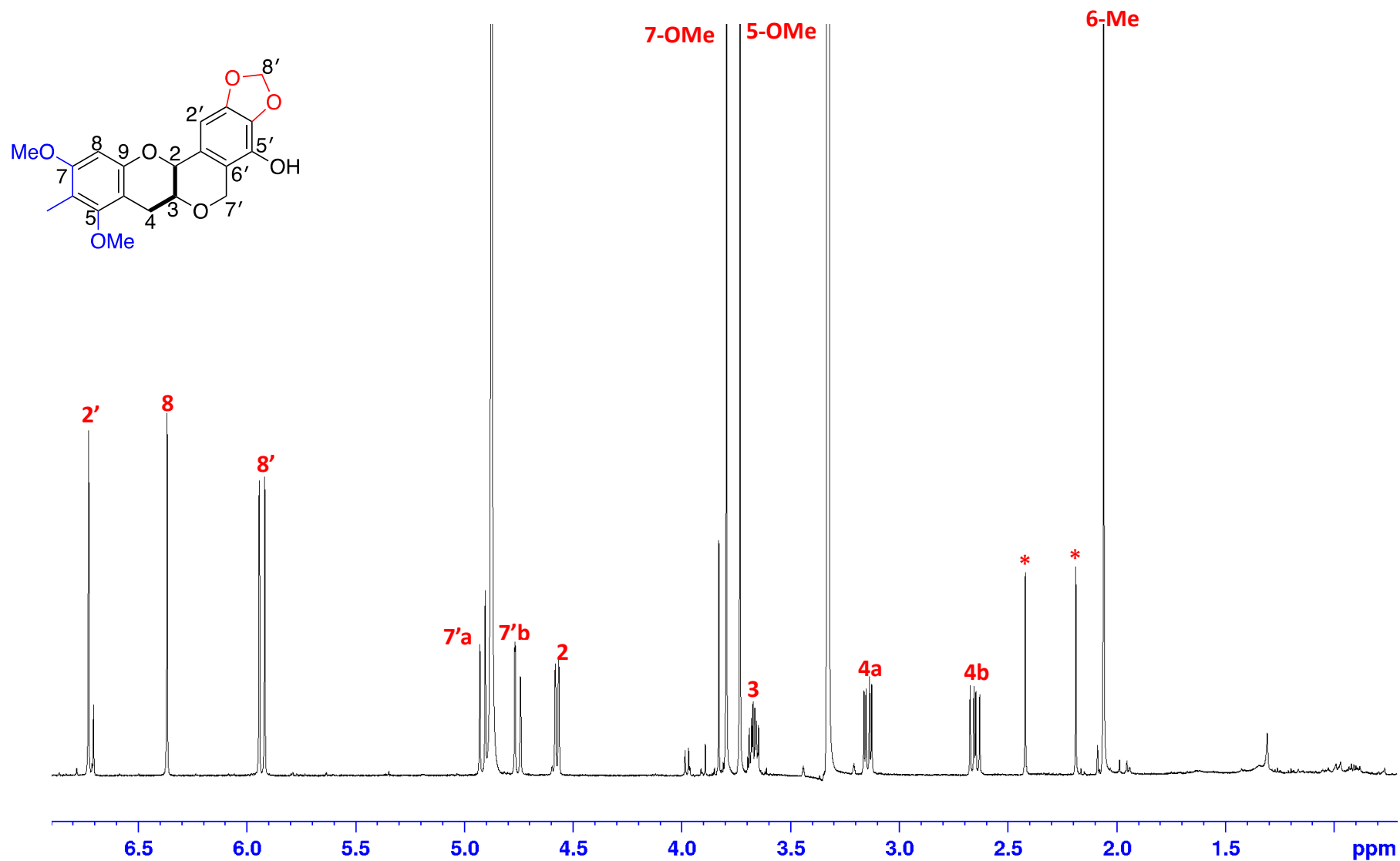


Figure S28. ^1H NMR spectrum of compound **5** (CD_3OD , 600 MHz)

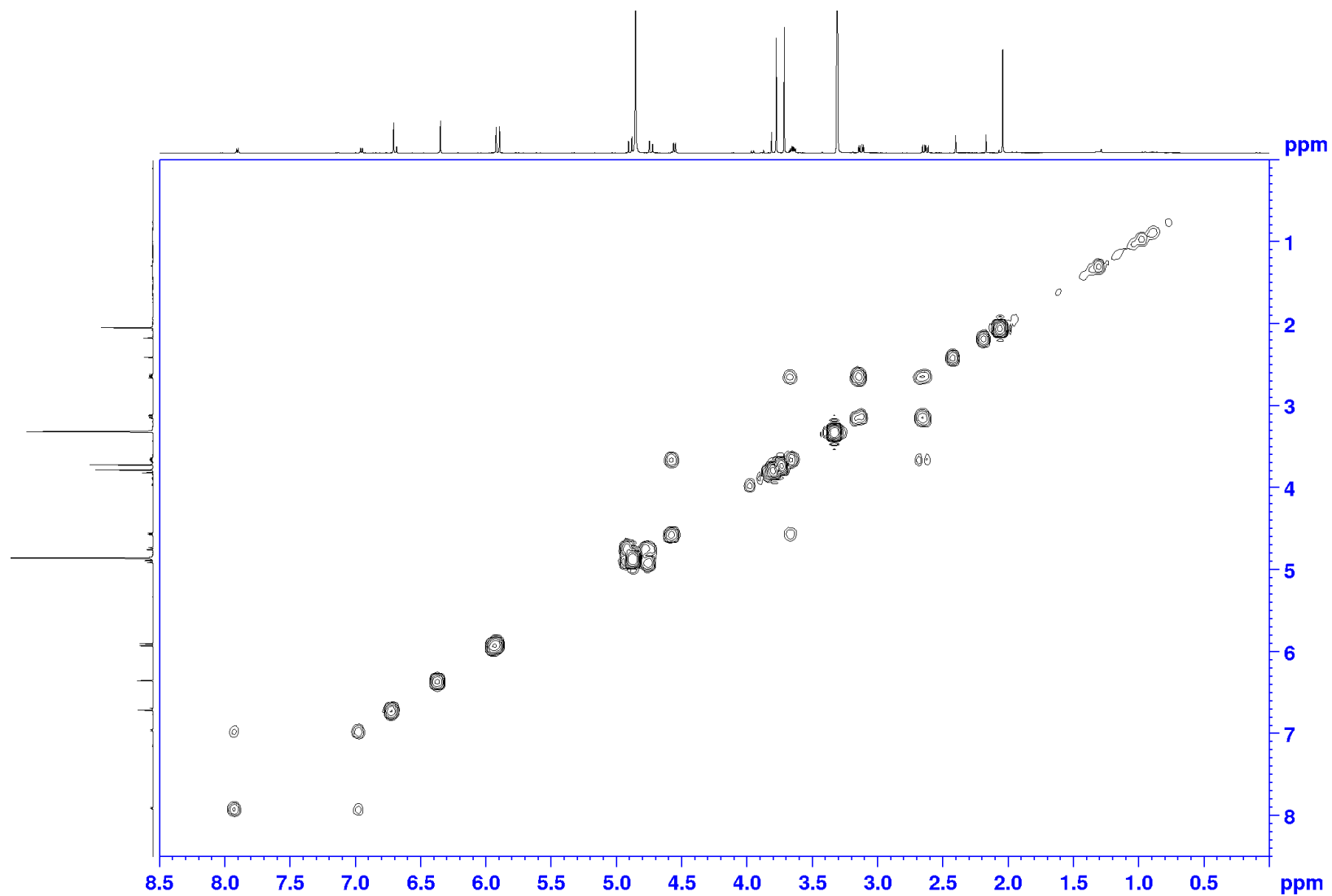


Figure S29. COSY spectrum of compound **5** (CD₃OD, 600 MHz)

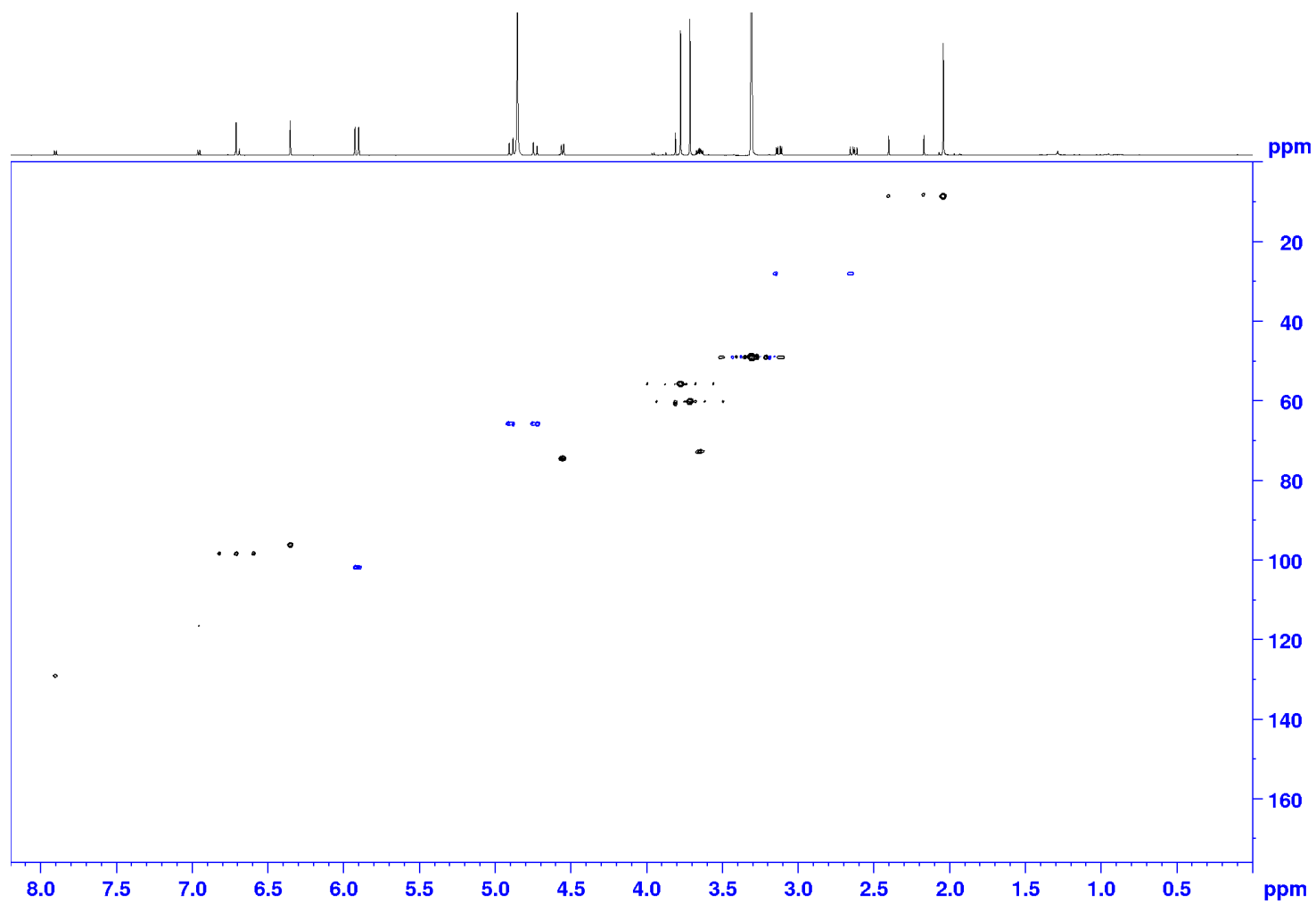


Figure S30. HSQC spectrum of compound **5** (CD₃OD, 600 MHz)

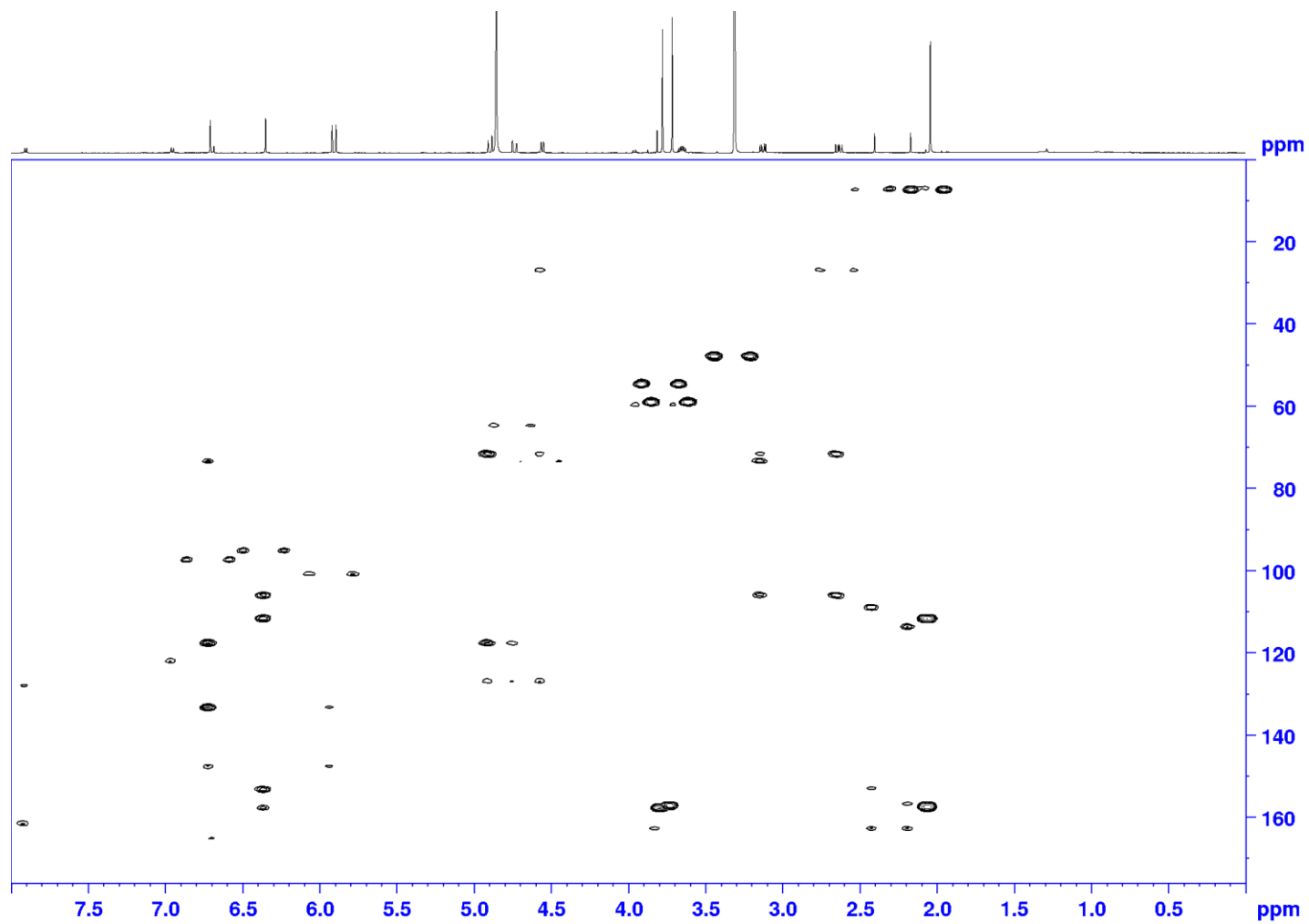


Figure S31. HMBC spectrum of compound **5** (CD₃OD, 600 MHz)

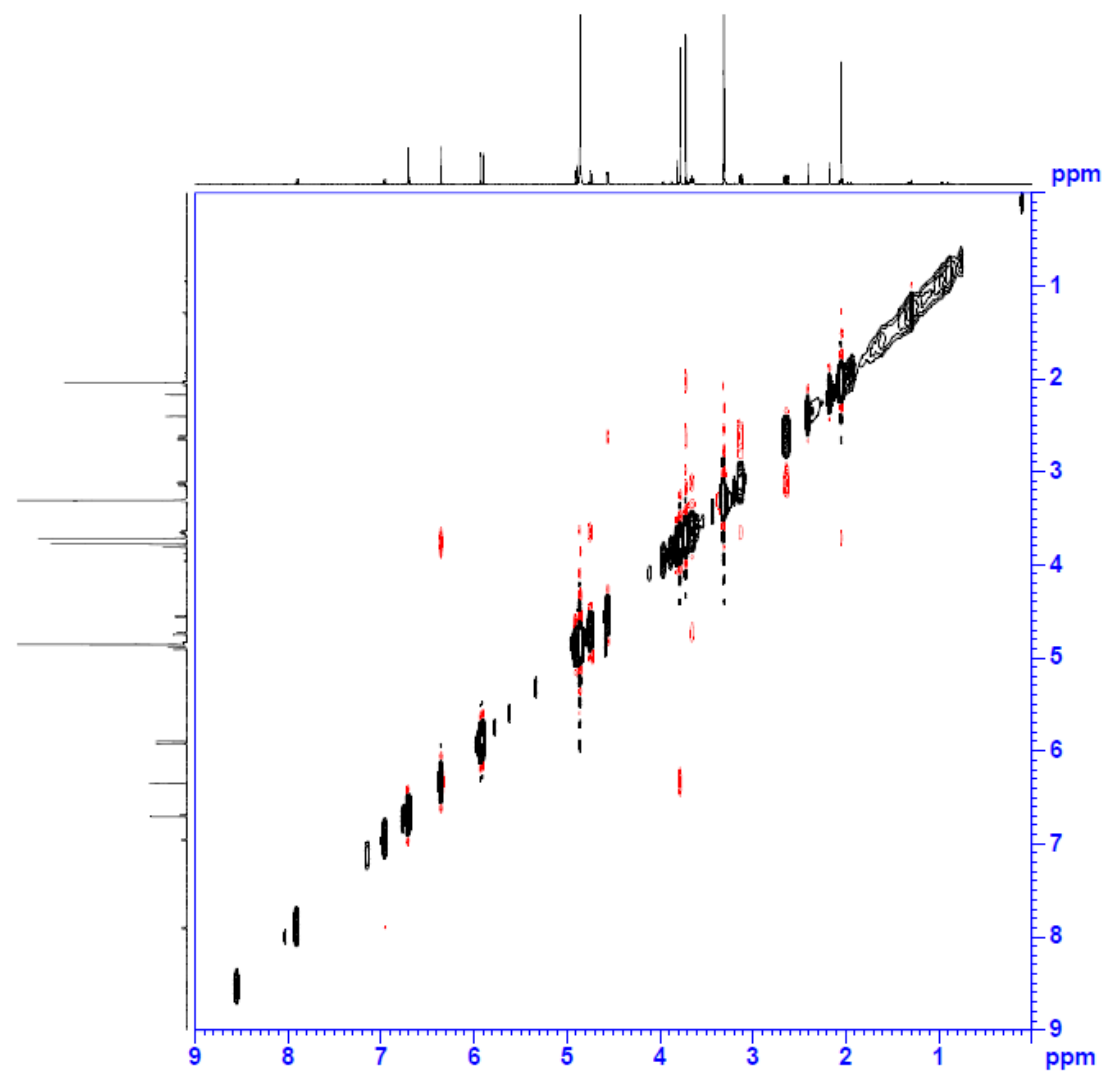


Figure S32. NOESY spectrum of compound **5** (CD₃OD, 600 MHz)

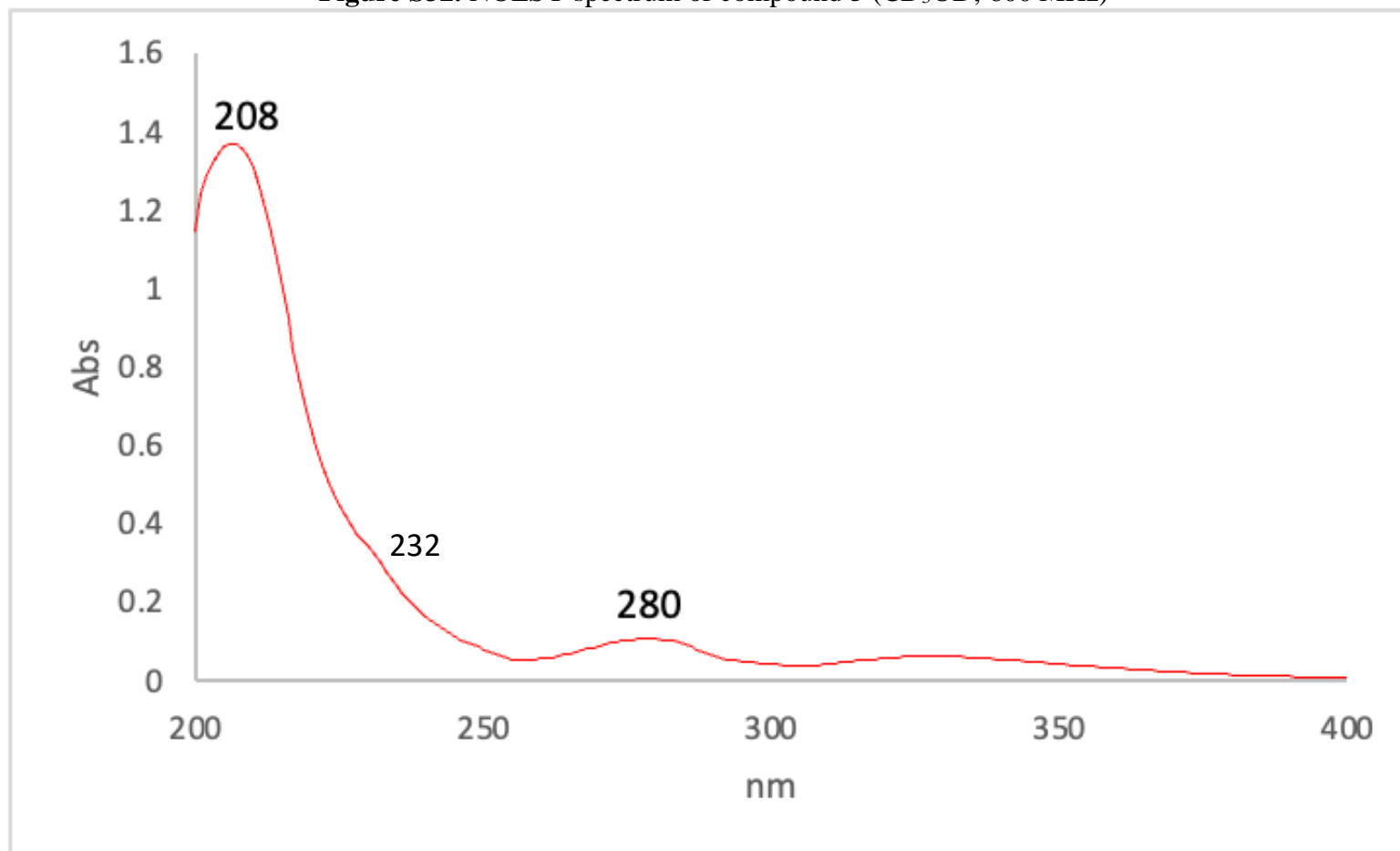


Figure S33. UV-Vis spectrum for compound **5**

Elemental Composition Report

Page 1

Single Mass Analysis

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

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

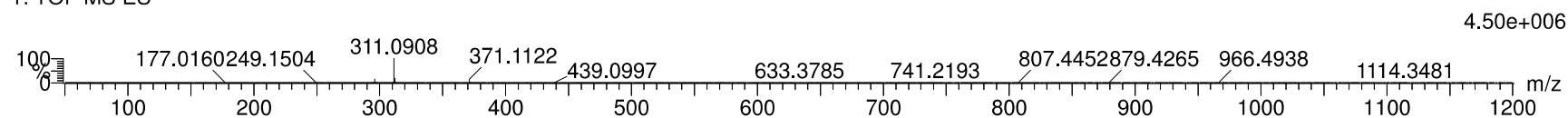
15 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-25 H: 0-30 O: 0-8

01122022_BMF-16B 122 (2.396) Cm (122)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 5.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
371.1122	371.1131	-0.9	-2.4	11.5	1273.8	n/a	n/a	C20 H19 O7

Figure S34. HRMS spectrum for compound 5

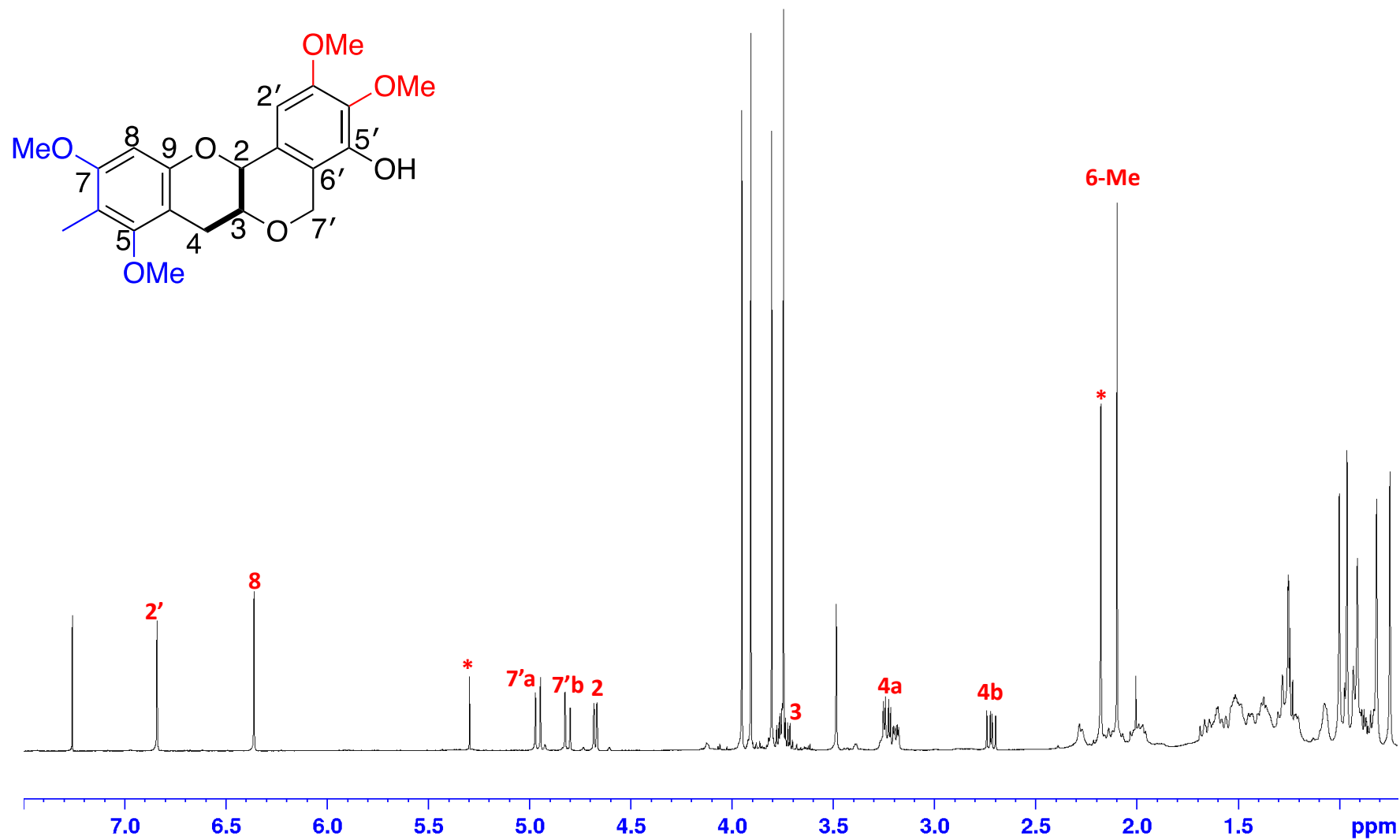


Figure S35. ^1H NMR spectrum of compound **6** (CDCl_3 , 600 MHz)

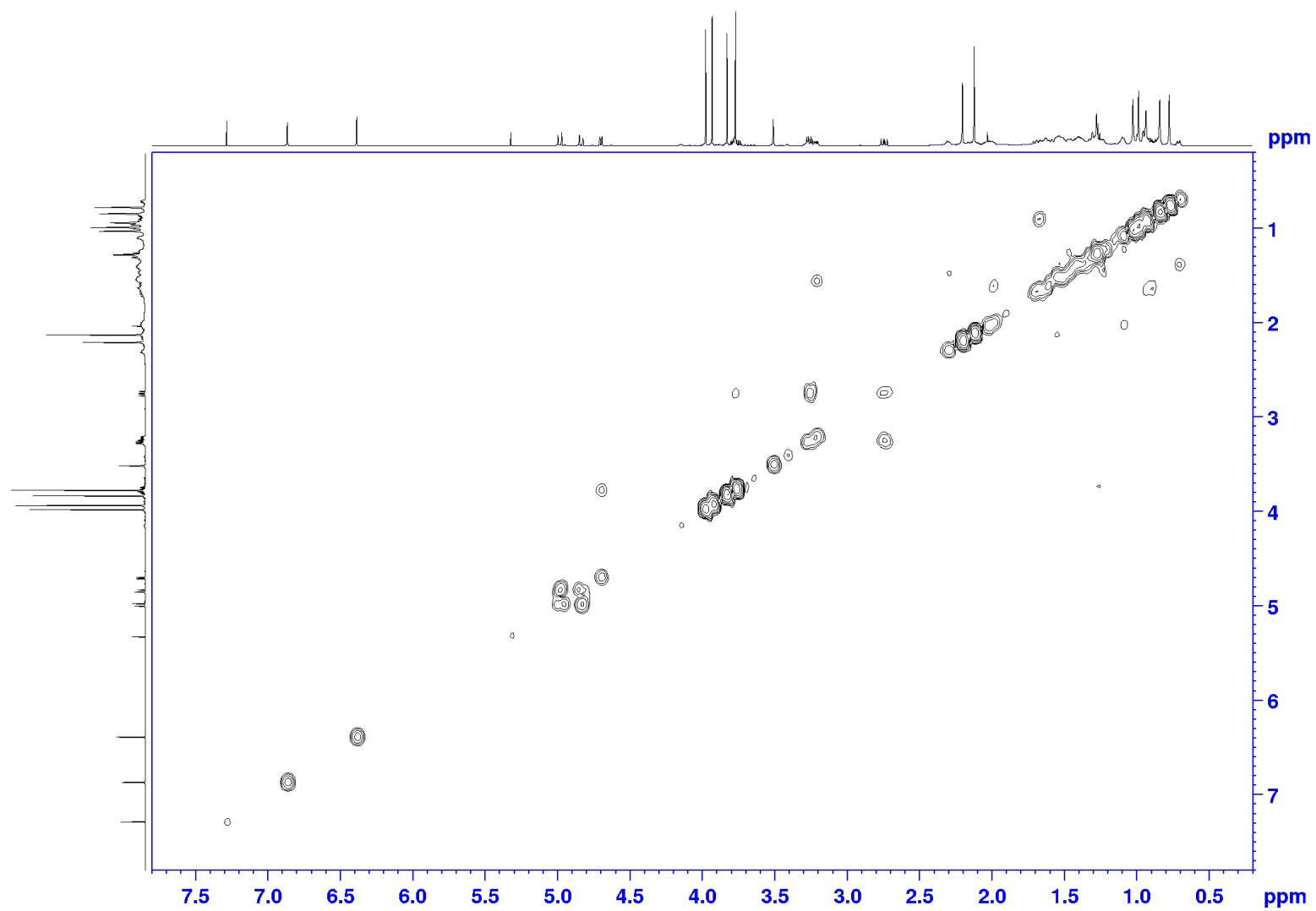


Figure S36. COSY spectrum of compound **6** (CDCl₃, 600 MHz)

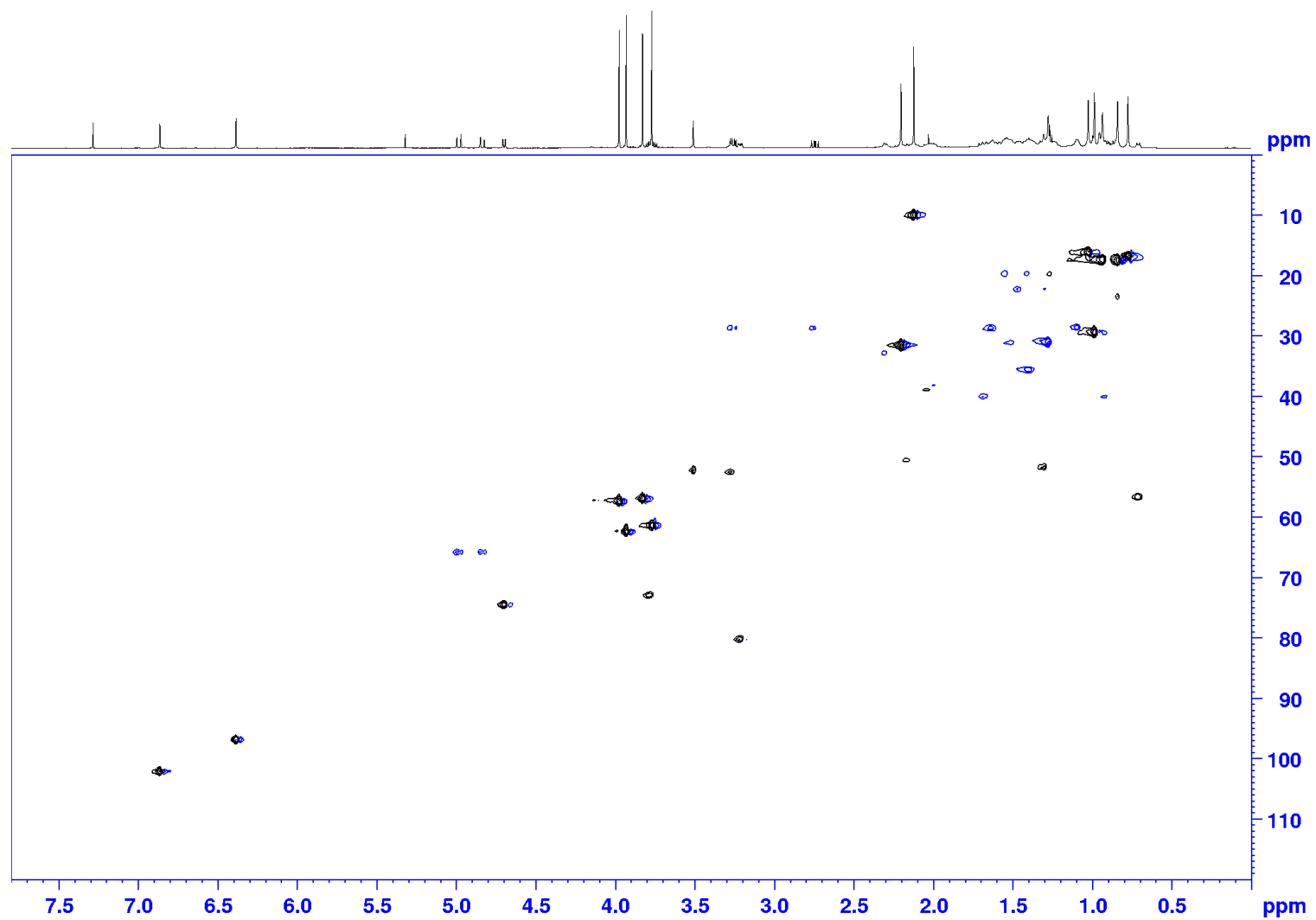


Figure S37. HSQC spectrum of compound **6** (CDCl_3 , 600 MHz)

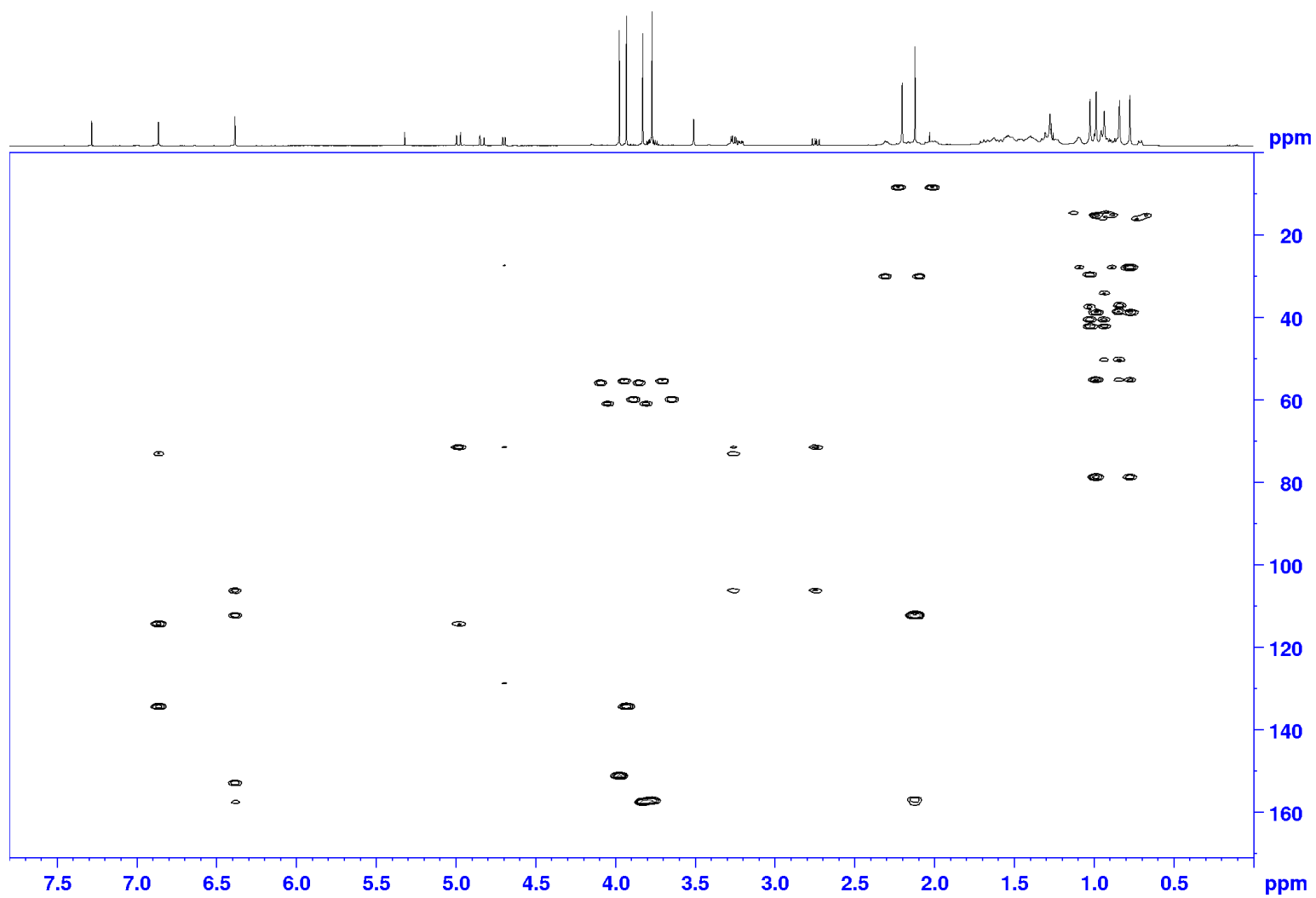


Figure S38. HMBC spectrum of compound **6** (CDCl₃, 600 MHz)

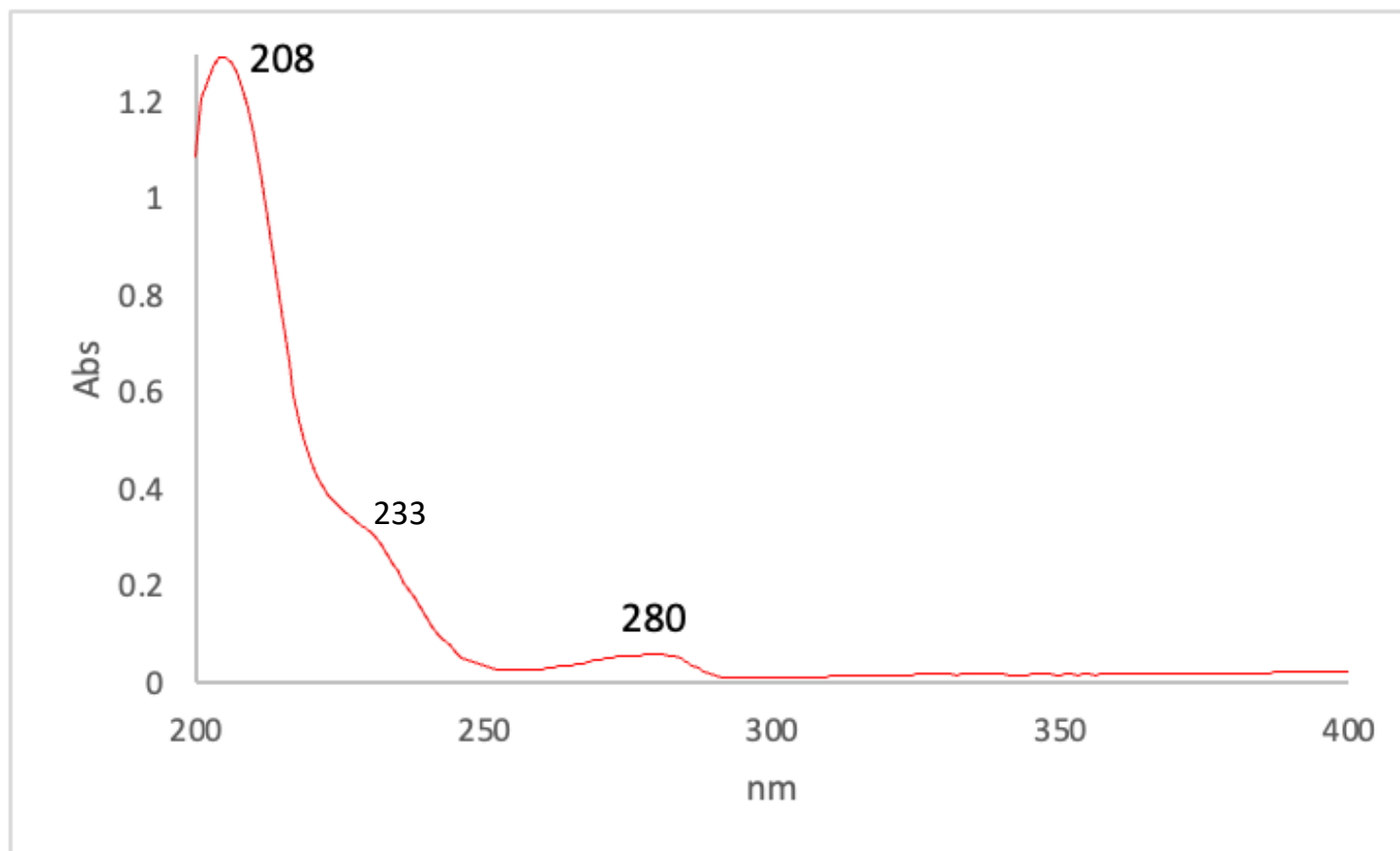


Figure S39. UV-Vis spectrum for compound **6**

Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

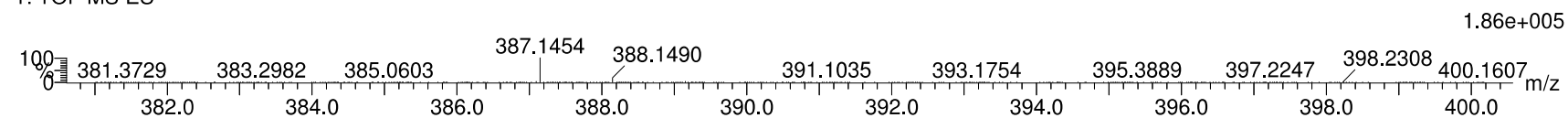
7 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-21 H: 0-24 O: 0-7

221103_BM_F17A_17 (0.364) Cm (17:18)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 10.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
387.1454	387.1444	1.0	2.6	10.5	1577.3	n/a	n/a	C21 H23 O7

Figure S40. HRMS spectrum for compound **6**

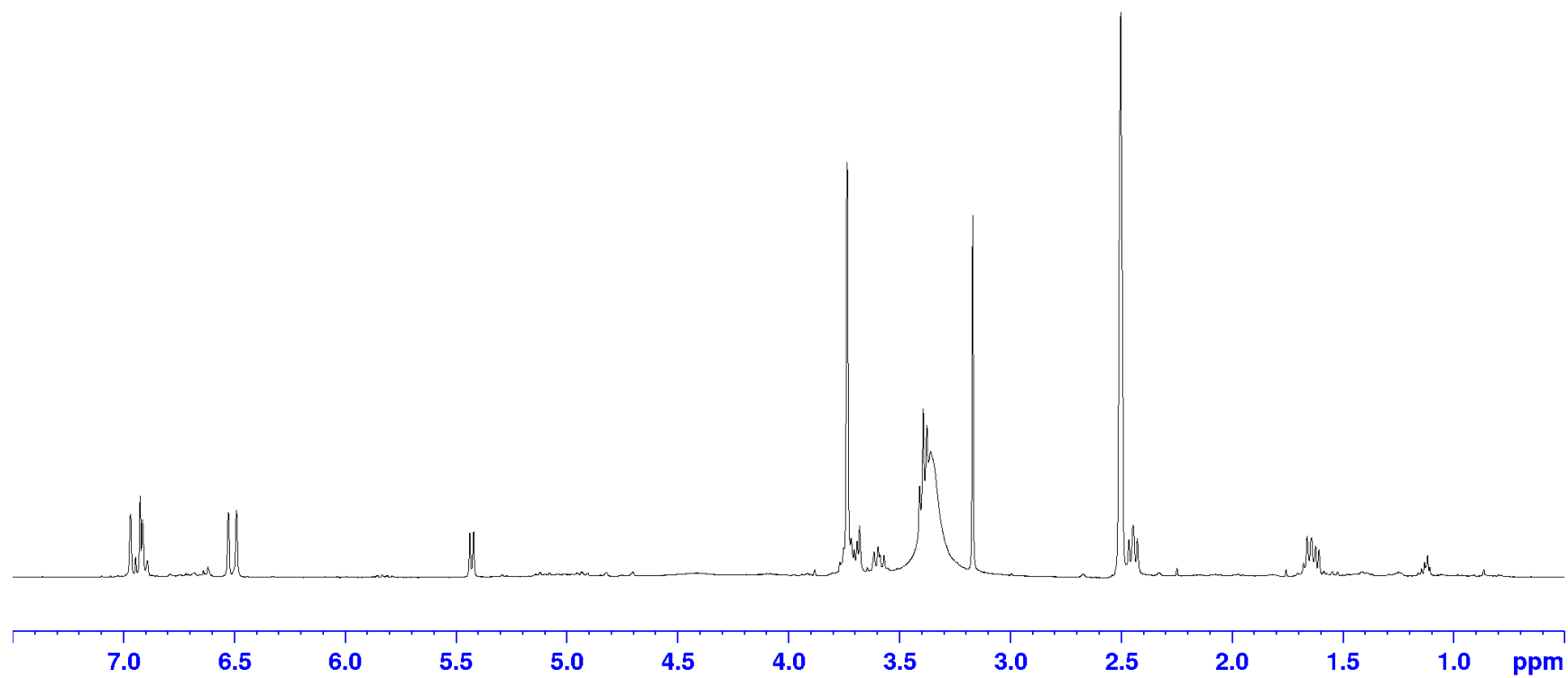


Figure S41. ^1H NMR spectrum of compound **7** (DMSO- d_6 , 400 MHz)

Elemental Composition Report

Page 1

Single Mass Analysis

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

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

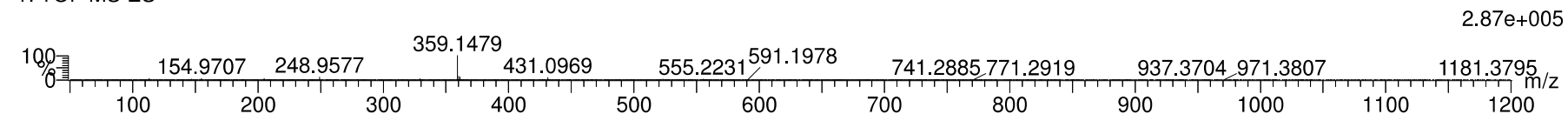
16 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-25 H: 0-30 O: 0-8

011222_BMF-4 122 (2.396) Cm (122)

1: TOF MS ES-



Minimum: -1.5

Maximum: 20.0 5.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
359.1479	359.1495	-1.6	-4.5	9.5	1187.0	n/a	n/a	C20 H23 O6

Figure S42. HRMS spectrum for compound **7**

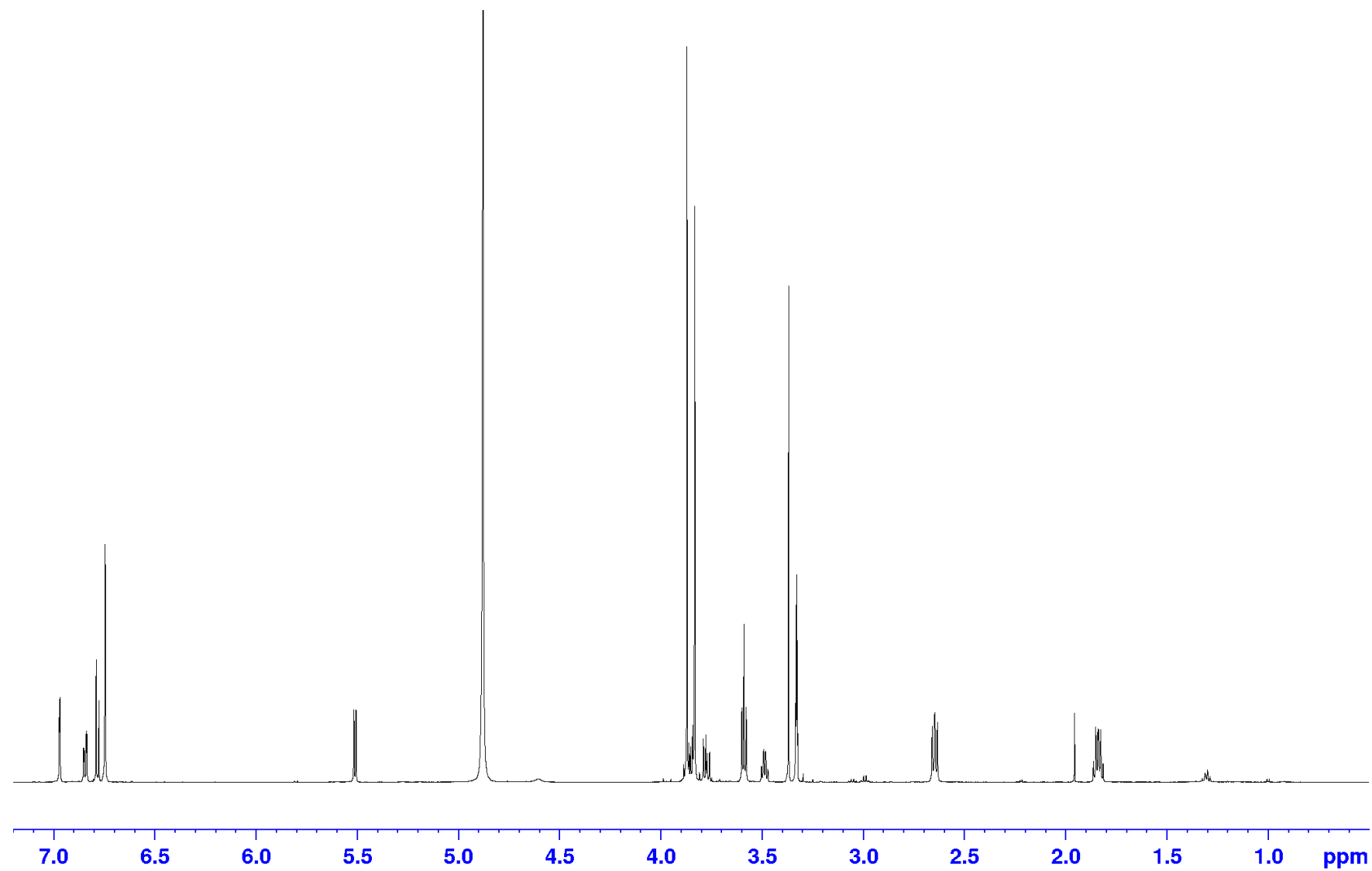


Figure S43. ^1H NMR spectrum of compound **8** (CD_3OD , 600 MHz)

Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 20.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

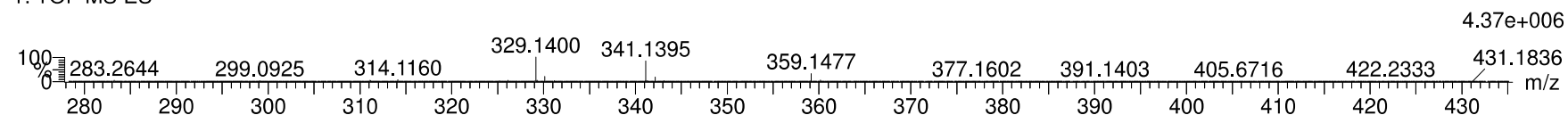
70 formula(e) evaluated with 2 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-50 H: 0-50 O: 0-20

251222BMF-4A_1 negative LS 73 (1.449)

1: TOF MS ES-



Minimum:

Maximum:

-1.5
20.0 20.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
359.1477	359.1495	-1.8	-5.0	9.5	2548.8	0.000	99.99	C20 H23 O6
	359.1436	4.1	11.4	18.5	2558.6	9.820	0.01	C27 H19 O

Figure S44. HRMS spectrum for compound 8

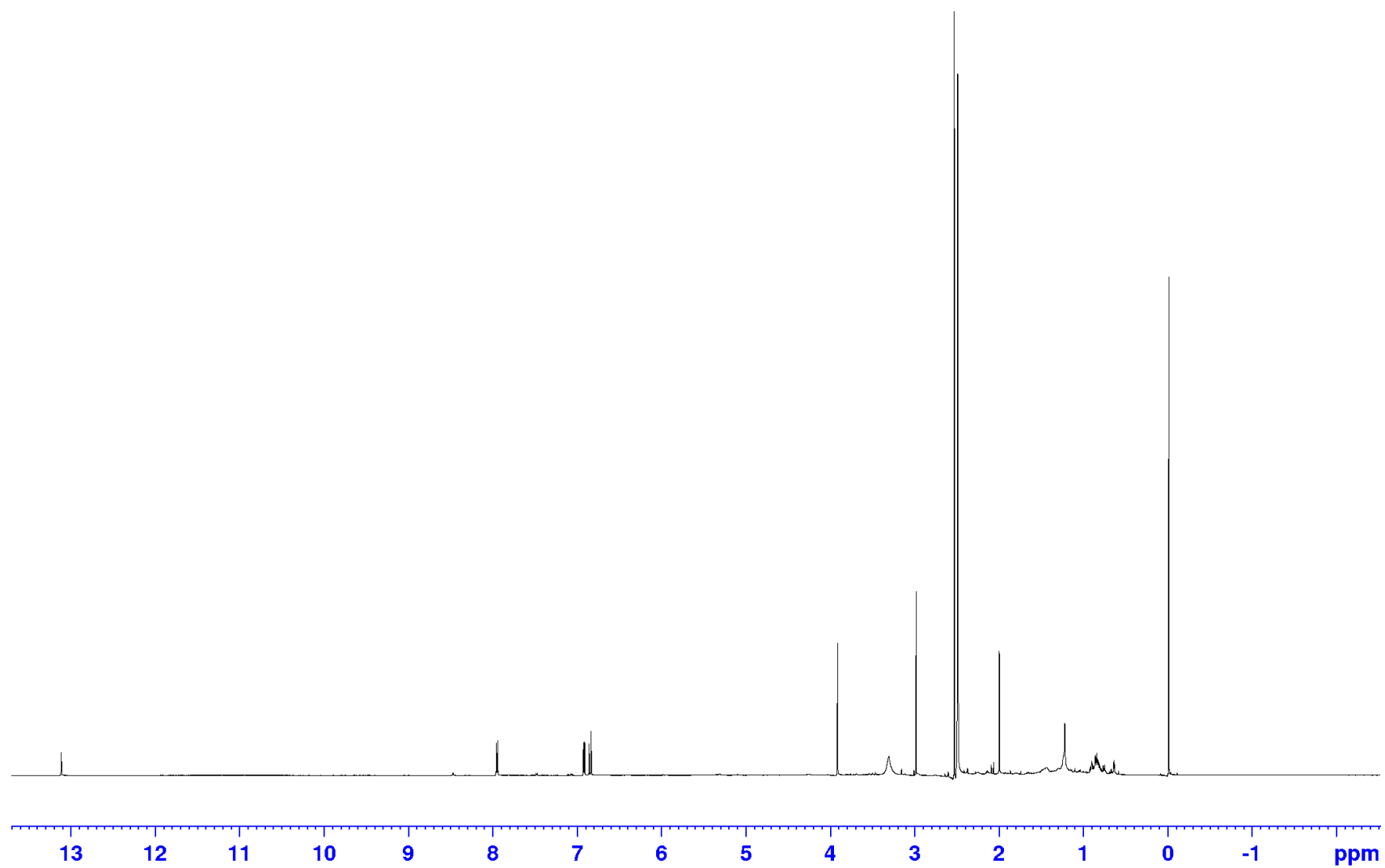


Figure S45. ^1H NMR spectrum of compound **9** (DMSO-d_6 , 600 MHz)

Elemental Composition Report

Page 1

Single Mass Analysis

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

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

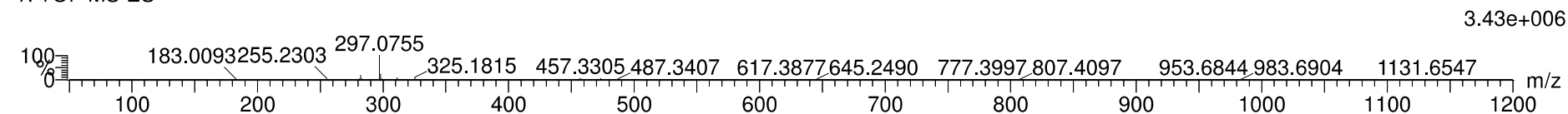
24 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-25 H: 0-30 O: 0-8

011222_BMF-15 122 (2.396) Cm (122)

1: TOF MS ES-



Minimum: -1.5
Maximum: 20.0 5.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
297.0755	297.0763	-0.8	-2.7	11.5	2162.9	n/a	n/a	C17 H13 O5

Figure S46. HRMS spectrum for compound 9

Table S2. NMR data (600 MHz, CD₃OD) for compound **1**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC
2	4.53 d (9.0)	74.6	3	3, 4, 1', 6'
3	3.64 m	73.1	2,4	
4	3.11 dd (15.5, 6.0) 2.63 dd (15.5, 10.7)	28.2	3	3, 5, 9, 10
5		157.6		
6		110.5		
7		155.2		
8	6.21 s	99.7		6, 7, 9, 10
9		152.9		
10		105.1		
5-OMe	3.71 s	60.3		5
6-Me	2.05 s	8.6		5, 6, 7
7-OMe				
1'		117.7		
2'	6.66 s	98.4		1', 2, 3', 4'
3'		133.4		
4'		147.6		
5'		135.7		
6'		126.9		
7'	4.89 d (15.2) 4.73 d (15.2)	65.8		3, 1', 5', 6'
8'	5.91 d (15.3)	101.9		3', 4'
3' OMe				
4' OMe				

*assignments supported by HSQC and HMBC experiments

Table S3. NMR data (600 MHz, CD₃OD) for compound **2**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC	NOESY
2	4.57 d (9.5)	74.4	3	3, 4, 1', 2', 6'	
3	3.67 ddd (10.7, 9.5, 6.1)	72.9	2, 4		7'
4	3.15 dd (15.4, 6.1)	28.1	3	2, 3, 5, 9, 10	
	2.66 dd (15.4, 10.7)				
5		158.8			
6		111.6			
7		156.2			
8	6.23 s	99.4		6,7,9,10	
9		154.0			
10		106.8			
5-OMe	3.72 s	60.2		5	6-Me
6-Me	2.07 s	8.4		5,6,7	5-OMe
7-OMe					
1'		116.0			
2'	6.78 s	101.3		2, 1', 3', 4'	3' OMe
3'		136.2			
4'		153.2			
5'		146.4			
6'		129.7			
7'	4.88 (15.3)	65.5		3, 1', 5', 6'	3
	4.73 (15.3)				
8'		101.3			
3' OMe	3.88 s	56.3		3'	2'
4' OMe	3.79 s	60.9		4'	

*assignments supported by HSQC and HMBC experiments

Table S4. NMR data (600 MHz, CD₃OD) for compound **3**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC	NOESY
2	4.74 d (9.9)	72.7	3	3, 1', 6'	
3	3.67 dd (9.9, 8.3)	78.3	2,4		
4	5.01 d (8.3)	70.6	3	3,9,10	
5		156.8			
6		106.8			
7		160.0			
8	6.15 s	92.1		6,7,9,10	7-OMe
9		154.0			
10		103.8			
5-OMe					
6-Me	1.98 s	7.7		5,6,7	
7-OMe	3.77 s	55.8		7	8
1'		116.1			
2'	6.79 s	101.4		2, 1', 3', 4', 6'	3' OMe
3'		135.5			
4'		153.2			
5'		147.0			
6'		129.4			
7'	4.92 d (15.1) 4.72 d (15.1)	65.6		3, 1', 5', 6'	
8'					
3' OMe	3.89 s	56.2		3'	2'
4' OMe	3.81 s	60.8		4'	

*assignments supported by HSQC and HMBC experiments

Table S5. NMR data (600 MHz, CD₃OD) for compound **4**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC	NOESY
2	4.56 d (9.6)	74.2	3	3, 1', 6'	
3	3.71 ddd (10.5, 9.6, 6.1)	73.3	2,4		7'
4	3.10 dd (15.4, 6.1) 2.57 dd (15.4, 10.5)	28.6	3	3,9,10	
5		158.8			
6		106.5			
7		158.5			
8	6.19 s	92.4		6,7,9,10	
9		154.2			
10		102.8			
5-OMe					
6-Me	2.02 s	8.1		5,6,7	7-OMe
7-OMe	3.76 s	55.8		7	6-Me
1'		116.3			
2'	6.83 s	101.0		2, 1', 3', 4', 6'	3' OMe
3'		136.2			
4'		153.3			
5'		147.1			
6'		130.1			
7'	4.89 d (14.0) 4.74 d (15.1)	65.5		3, 1', 5', 6'	3
8'					
3' OMe	3.89 s	56.2		3'	2'
4' OMe	3.79 s	60.9		4'	

*assignments supported by HSQC and HMBC experiments

Table S6. NMR data (600 MHz, CD₃OD) for compound **5**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC	NOESY
2	4.58 d (<i>9.1</i>)	74.6	3	3, 1', 6'	
3	3.67 ddd (<i>10.6, 9.1, 5.9</i>)	72.7	2,4		
4	3.14 dd (<i>15.4, 5.9</i>) 2.65 dd (<i>15.4, 10.6</i>)	28.0	3	2,3,5, 9,10	
5		158.3			
6		112.8			
7		158.8			
8	6.36 s	101.9		6,7,9,10	7-OMe
9		154.8			
10		108.0			
5-OMe	3.73 s	60.1			6-Me
6-Me	2.06 s	8.7		5,6,7	5-OMe
7-OMe	3.80 s	55.7		7	8
1'		118.4			
2'	6.72 s	98.6		2, 1', 3', 4', 6'	
3'		134.9			
4'		148.8			
5'		137.5			
6'		128.4			
7'	4.91 d (<i>15.2</i>) 4.76 d (<i>15.2</i>)	65.8		3, 1', 5', 6'	
8'	5.93 d (<i>14.0</i>)	101.9		3', 4'	
3' OMe					
4' OMe					

*assignments supported by HSQC and HMBC experiments

Table S7. NMR data (600 MHz, CDCl₃) for compound **6**

Position	δ_{H} , mult, (<i>J</i> in Hz)	* δ_{C} (ppm)	COSY	HMBC
2	4.67 d (9.5)	74.3	3	3, 1', 6'
3	3.74 m	72.8	2,4	
4	3.23 dd (15.3, 6.0) 2.71 dd (15.3, 10.6)	28.4	3	2,3,5, 9,10
5		157.4		
6		112.6		
7		157.8		
8	6.36 s	99.6		6,7,9,10
9		153.1		
10		106.8		
5-OMe	3.73 s	61.1		5
6-Me	2.09 s	9.4		5,6,7
7-OMe	3.80 s	56.7		7
1'		114.2		
2'	6.84 s	102.4		2, 1', 3', 4'
3'		134.4		
4'		147.7		
5'				
6'		128.7		
7'	4.96 d (15.4) 4.81 d (15.4)	65.7		3, 1', 4', 5', 6'
8'				
3' OMe	3.95 s	57.1		3'
4' OMe	3.91 s	62.2		4'

*assignments supported by HSQC and HMBC experiments

Table S8. Downregulation of LPS and IFN- γ induced nitric oxide production and cell viability of sequential extracts

Sequential Extracts	Inhibition of NO production ($\mu\text{g/mL}$), N=6	Cell viability ($\mu\text{g/mL}$), N=6
Hexane	39.11 \pm 6.82	>100
DCM	14.09 \pm 0.81	30.65 \pm 2.43
EtOAc	18.25 \pm 7.60	>100
Ethanol	69.25 \pm 13.33	>100
MeOH	49.93 \pm 8.76	>100
Water	80.25 \pm 17.18	>100