

Supplementary Material

List of Supplementary Figures

S1. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **1**

S2. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **1**

S3. HSQC Spectrum of the new compound 1

S4. ¹H-¹H COSY Spectrum of the new compound **1**

S5. HMBC Spectrum of the new compound 1

S6. NOESY Spectrum of the new compound **1**

S7. HRESIMS spectrum of the new compound 1

S8. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **2**

S9. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound 2

S10. HSQC Spectrum of the new compound 2

S11. ¹H-¹H COSY Spectrum of the new compound **2**

S12. HMBC Spectrum of the new compound 2

S13. NOESY Spectrum of the new compound 2

S14. HRESIMS spectrum of the new compound 2

S15. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **3**

S16. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **3**

S17. HSQC Spectrum of the new compound **3**

S18. ^{1}H - ^{1}H COSY Spectrum of the new compound **3**

S19. HMBC Spectrum of the new compound 3

S20. NOESY Spectrum of the new compound $\mathbf{3}$

S21. HRESIMS spectrum of the new compound 3

S22. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **4**

S23. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 4

S24. HSQC Spectrum of the new compound 4

S25. ¹H-¹H COSY Spectrum of the new compound **4**

S26. HMBC Spectrum of the new compound 4

S27. NOESY Spectrum of the new compound 4

S28. HRESIMS spectrum of the new compound 4

S29. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **5**

S30. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound 5

S31. HSQC Spectrum of the new compound 5

S32. ¹H-¹H COSY Spectrum of the new compound **5**

S33. HMBC Spectrum of the new compound **5**

S34. NOESY Spectrum of the new compound 5

S35. HRESIMS spectrum of the new compound 5

S36. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **6**

S37. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **6**

S38. HSQC Spectrum of the new compound 6

S39. ¹H-¹H COSY Spectrum of the new compound **6**

S40. HMBC Spectrum of the new compound **6**

S41. NOESY Spectrum of the new compound 6

- S42. HRESIMS spectrum of the new compound 6
- S43. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound 7
- S44. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **7**
- S45. HSQC Spectrum of the new compound 7
- S46. ¹H-¹H COSY Spectrum of the new compound **7**
- S47. HMBC Spectrum of the new compound **7**
- S48. NOESY Spectrum of the new compound 7
- S49. HRESIMS spectrum of the new compound 7
- S50. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **8**
- S51. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **8**
- S52. HSQC Spectrum of the new compound 8
- S53. ¹H-¹H COSY Spectrum of the new compound 8
- S54. HMBC Spectrum of the new compound 8
- S55. NOESY Spectrum of the new compound 8
- S56. HRESIMS spectrum of the new compound 8
- S57. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **9**
- S58. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **9**
- S59. HSQC Spectrum of the new compound 9
- S60. ¹H-¹H COSY Spectrum of the new compound 9
- S61. HMBC Spectrum of the new compound 9
- S62. NOESY Spectrum of the new compound 9
- S63. HRESIMS spectrum of the new compound **9**
- S64. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **10**
- S65. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound 10
- S66. HSQC Spectrum of the new compound 10
- S67. ¹H-¹H COSY Spectrum of the new compound **10**
- S68. HMBC Spectrum of the new compound **10**
- S69. NOESY Spectrum of the new compound 10
- S70. HRESIMS spectrum of the new compound **10**
- S71. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **11**
- S72. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **11**
- S73. HSQC Spectrum of the new compound 11
- S74. ¹H-¹H COSY Spectrum of the new compound **11**
- S75. HMBC Spectrum of the new compound 11
- S76. NOESY Spectrum of the new compound 11
- S77. HRESIMS spectrum of the new compound **11**
- S78. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **12**
- S79. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **12**
- S80. HSQC Spectrum of the new compound 12
- S81. ¹H-¹H COSY Spectrum of the new compound **12**
- S82. HMBC Spectrum of the new compound 12
- S83. NOESY Spectrum of the new compound 12
- S84. HRESIMS spectrum of the new compound 12
- S85. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **13**
- S86. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound 13
- S87. HSQC Spectrum of the new compound 13
- S88. ¹H-¹H COSY Spectrum of the new compound **13**

- S89. HMBC Spectrum of the new compound 13
- S90. NOESY Spectrum of the new compound 13
- S91. HRESIMS spectrum of the new compound 13
- S92. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **14**
- S93. ¹³C NMR Spectrum (150 MHZ, Pyridine-d₅) of the new compound 14
- S94. HSQC Spectrum of the new compound 14
- S95. ¹H-¹H COSY Spectrum of the new compound **14**
- S96. HMBC Spectrum of the new compound 14
- S97. NOESY Spectrum of the new compound 14
- S98. HRESIMS spectrum of the new compound 14
- S99. The structure of compound 14a
- S100. The structures of compounds 15-33
- S101. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **15**
- S102. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **15** S103. HRESIMS spectrum of the new compound **15**
- S104. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **16**
- S105. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **16** S106. HRESIMS spectrum of the new compound **16**
- S107. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **17**
- S108. ¹³C NMR Spectrum (150 MHZ, Pyridine-d₅) of the new compound 17
- S109. HRESIMS spectrum of the new compound **17**
- S110. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **18**
- S111. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **18**
- S112. HRESIMS spectrum of the new compound 18
- S113. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **19**
- S114. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **19** S115. HRESIMS spectrum of the new compound **19**
- S116. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **20**
- S117. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **20** S118. HRESIMS spectrum of the new compound **20**
- S119. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **21**
- S120. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **21**
- S121. HRESIMS spectrum of the new compound **21**
- S122. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **22**
- S123. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 22
- S124. HRESIMS spectrum of the new compound 22
- S125. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **23**
- S126. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **23**
- S127. HRESIMS spectrum of the new compound 23
- S128. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **24**
- S129. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **24** S130. HRESIMS spectrum of the new compound **24**
- S131. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound 25
- S132. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound 25
- S133. HRESIMS spectrum of the new compound **25**
- S134. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **26**
- S135. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **26**
- S136. HRESIMS spectrum of the new compound 26

S137. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound S138. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound S139. HRESIMS spectrum of the new compound S140. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound S141. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound S142. HRESIMS spectrum of the new compound

S142. IRESING Spectrum (600 MHZ Duriding d) of the new compound

S143. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **29** S144. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **29**

S144. ¹³C NMR Spectrum (150 MHZ, Pyridine-*a*₅) of the new compoun S145. HRESIMS spectrum of the new compound **29**

S146. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **30**

S147. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **30** S148. HRESIMS spectrum of the new compound **30**

S149. ¹H NMR Spectrum (600 MHZ, Methanol-*d*₄) of the new compound **31**

S150. ¹³C NMR Spectrum (150 MHZ, Methanol- d_4) of the new compound **31** S151. HRESIMS spectrum of the new compound **31**

S152. ¹H NMR Spectrum (600 MHZ, Methanol- d_4) of the new compound **32**

S153. ¹³C NMR Spectrum (150 MHZ, Methanol- d_4) of the new compound **32**

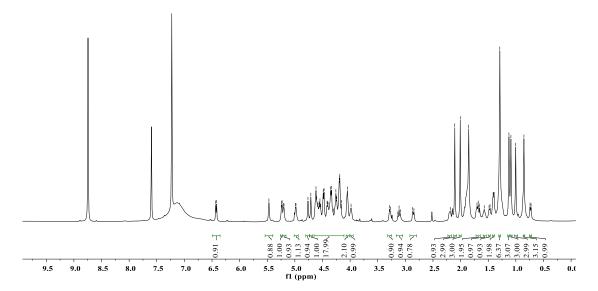
S154. HRESIMS spectrum of the new compound **32**

S155. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **33**

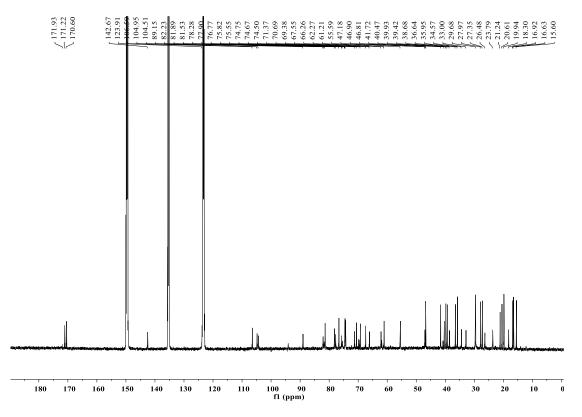
S156. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **33**

S157. HRESIMS spectrum of the new compound 33

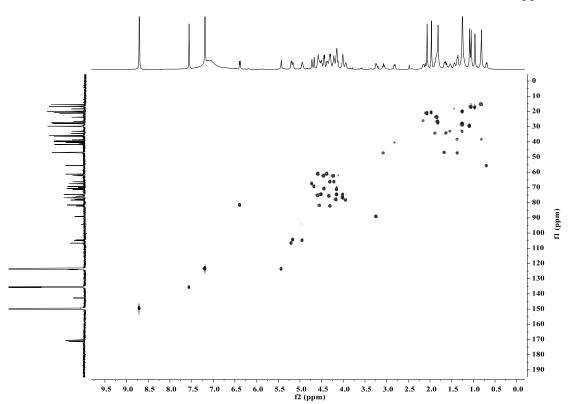




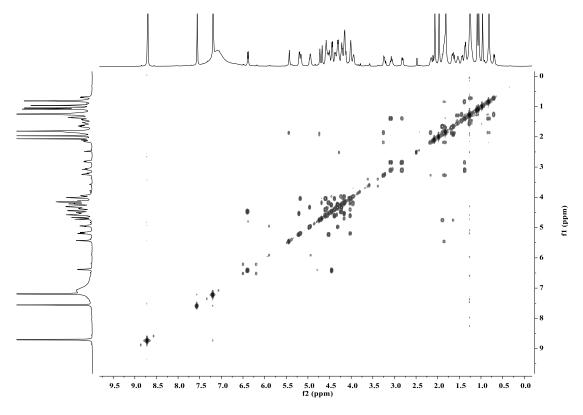
S1. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **1**



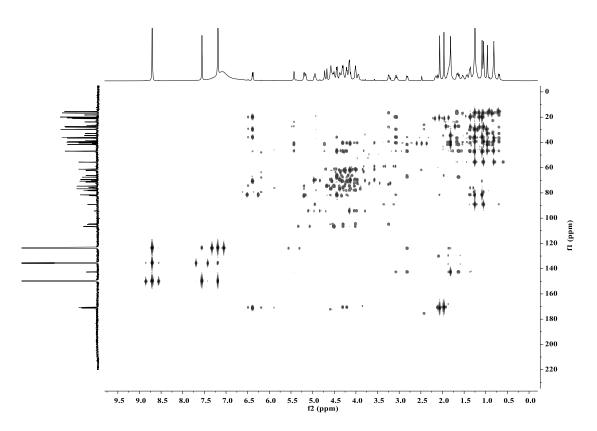
S2. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **1**



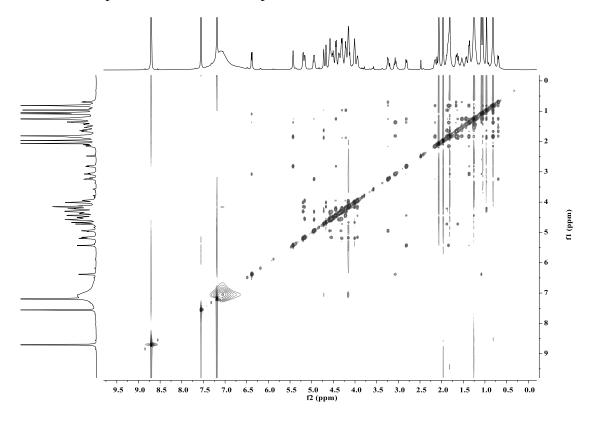
S3. HSQC Spectrum of the new compound **1**



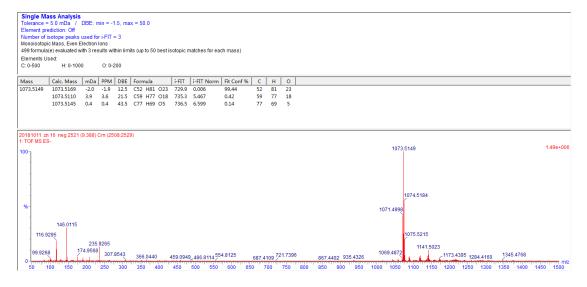
S4. $^{1}H^{-1}H$ COSY Spectrum of the new compound 1



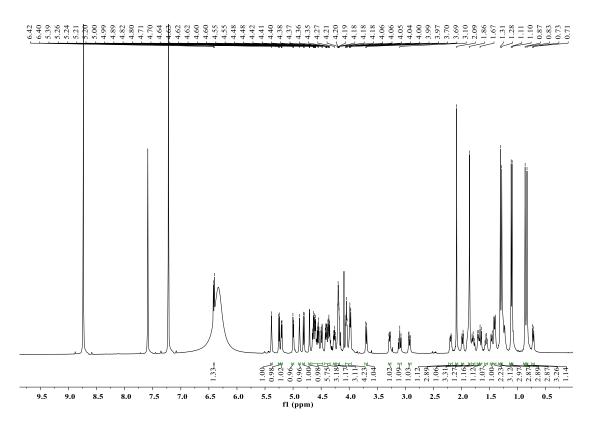
S5. HMBC Spectrum of the new compound $\mathbf{1}$



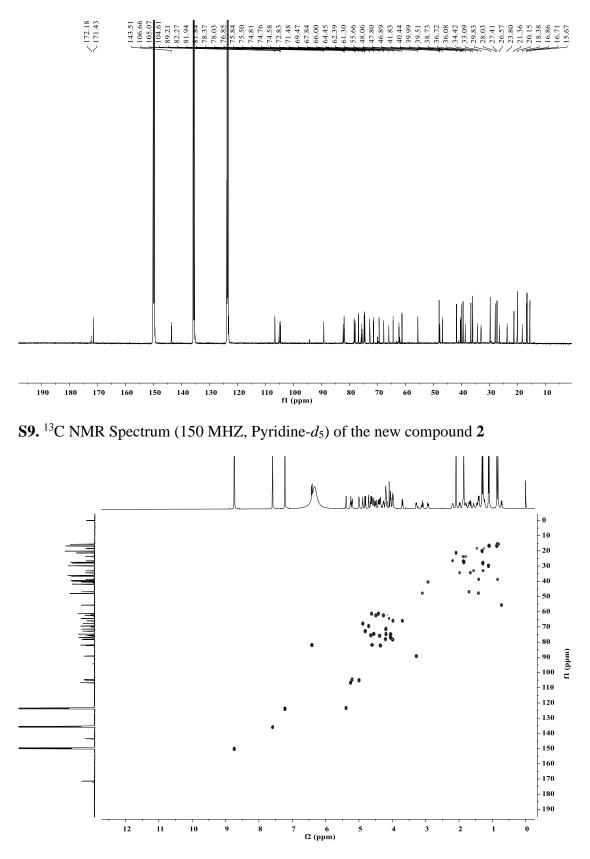
S6. NOESY Spectrum of the new compound $\mathbf{1}$



S7. HRESIMS spectrum of the new compound 1

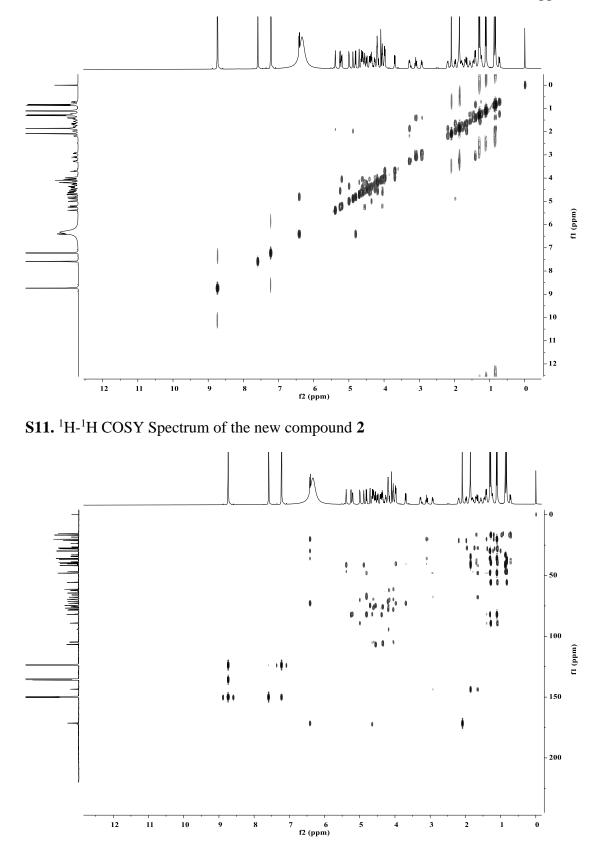


S8. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound 2

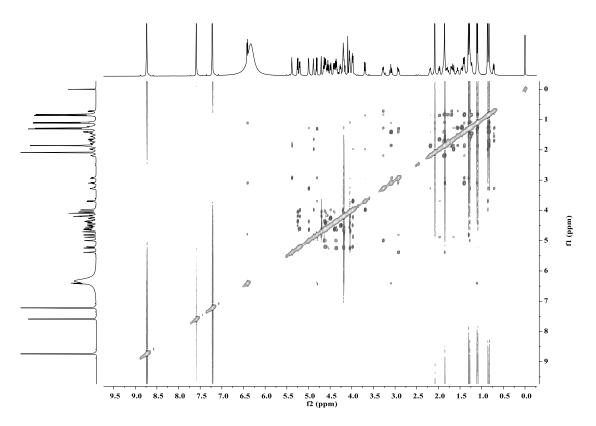


S10. HSQC Spectrum of the new compound **2**

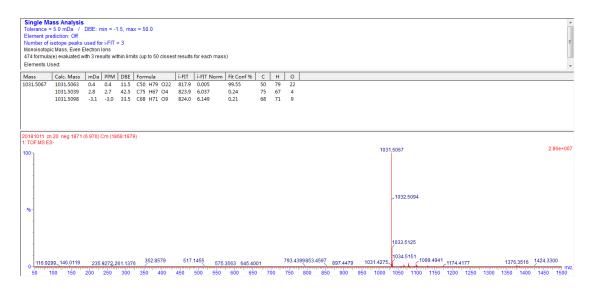
Supplementary Material



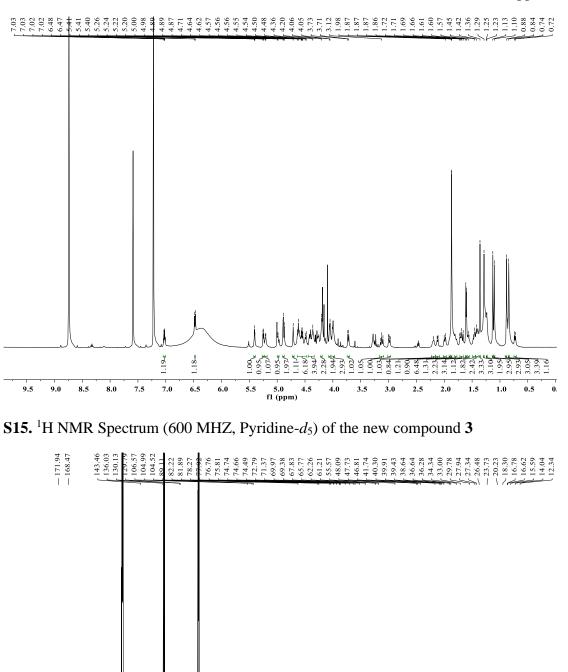
S12. HMBC Spectrum of the new compound $\mathbf{2}$

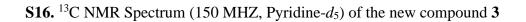


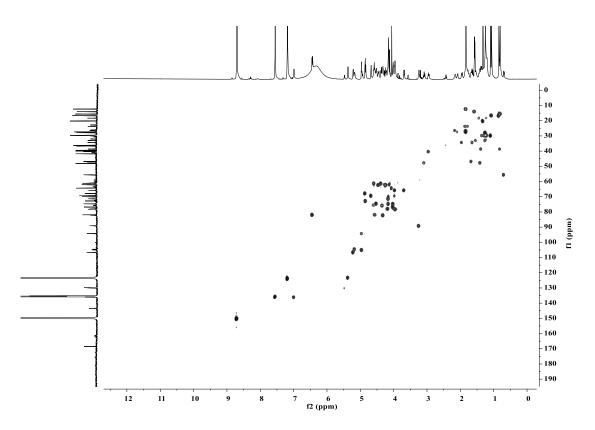
S13. NOESY Spectrum of the new compound **2**



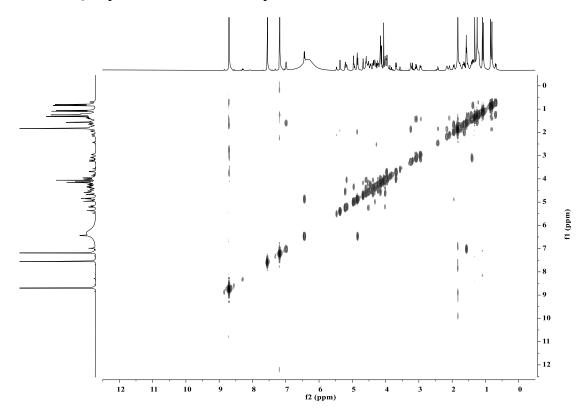
S14. HRESIMS spectrum of the new compound 2





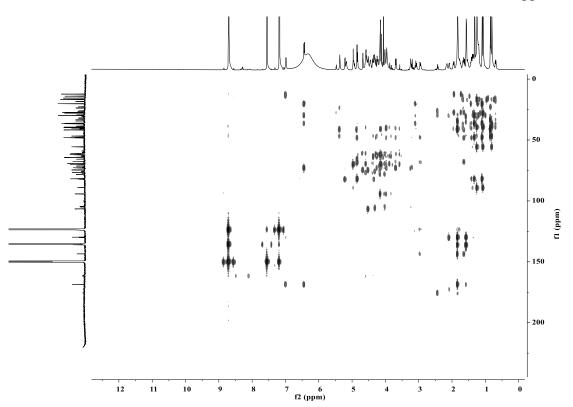
100 90 f1 (ppm) 

S17. HSQC Spectrum of the new compound **3**

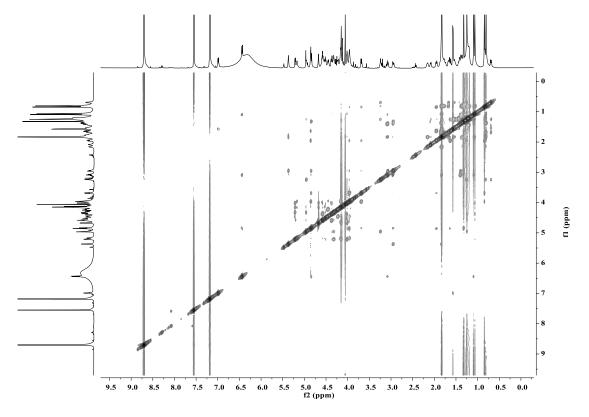


S18. 1 H- 1 H COSY Spectrum of the new compound **3**

Supplementary Material



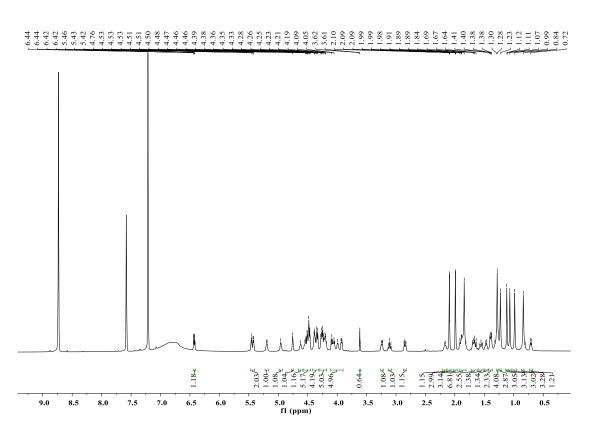
S19. HMBC Spectrum of the new compound **3**



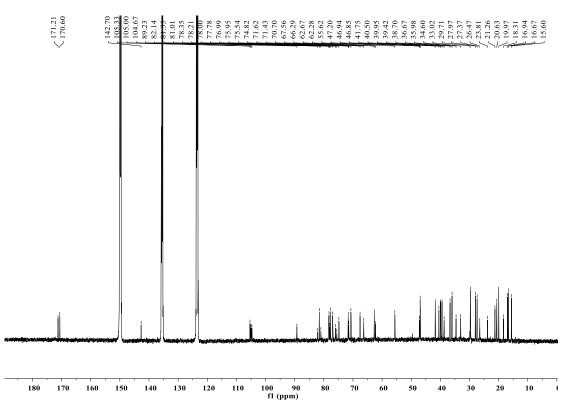
S20. NOESY Spectrum of the new compound **3**

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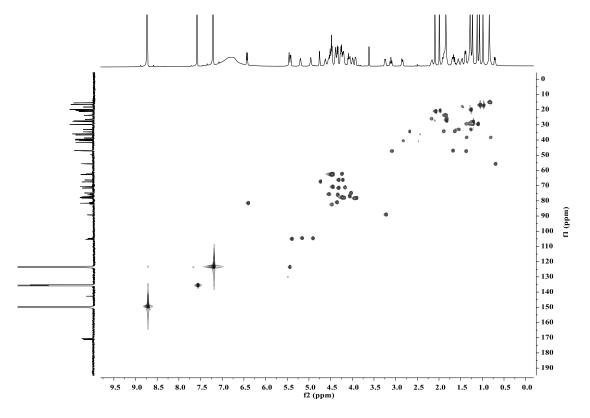
S21. HRESIMS spectrum of the new compound 3



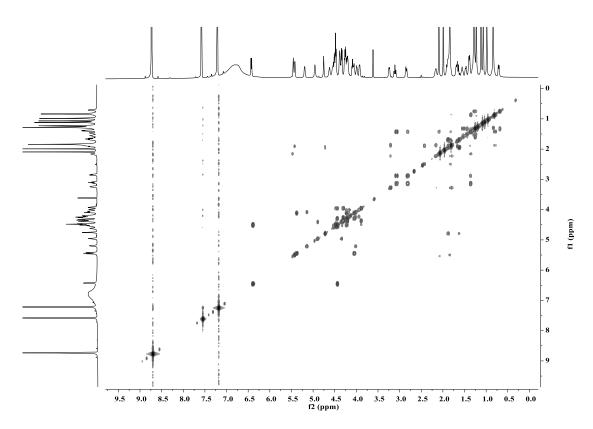
S22. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **4**



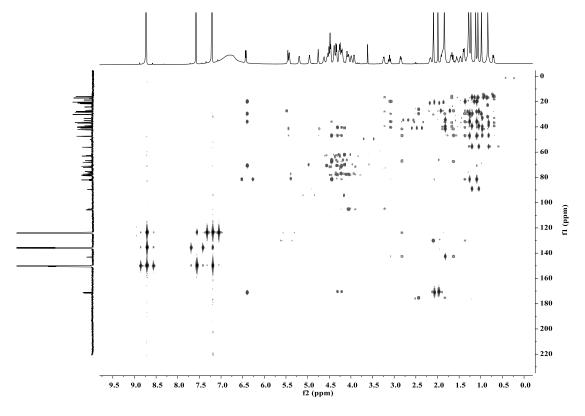
S23. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **4**



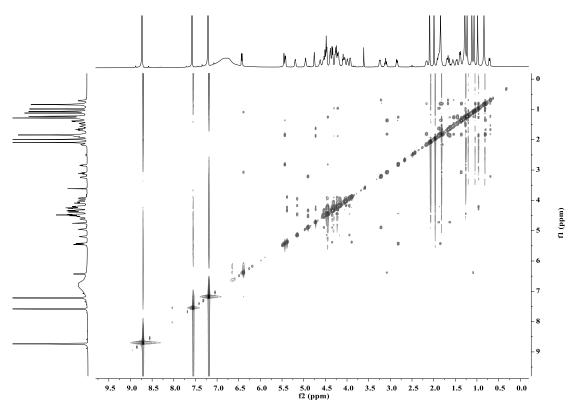
S24. HSQC Spectrum of the new compound 4



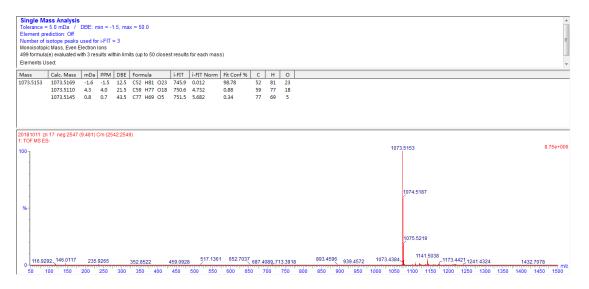
S25. $^{1}H^{-1}H$ COSY Spectrum of the new compound 4



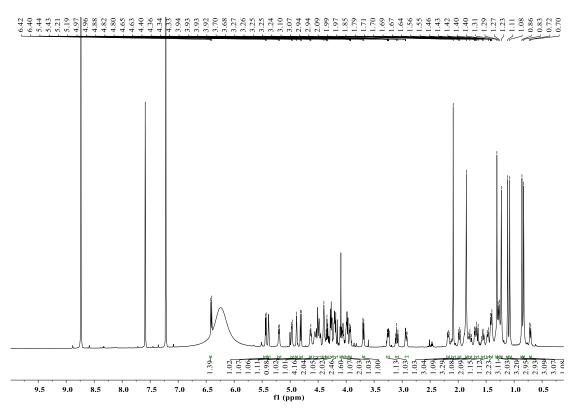
S26. HMBC Spectrum of the new compound $\mathbf{4}$



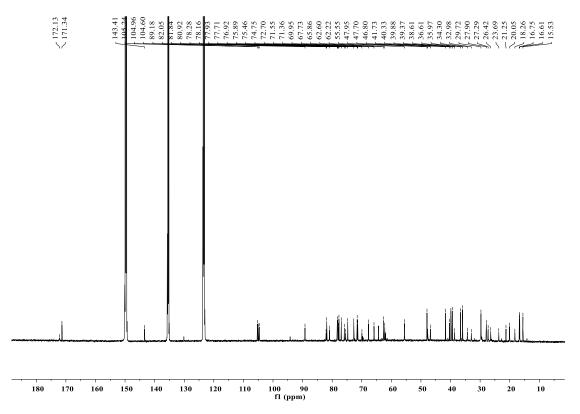
S27. NOESY Spectrum of the new compound 4



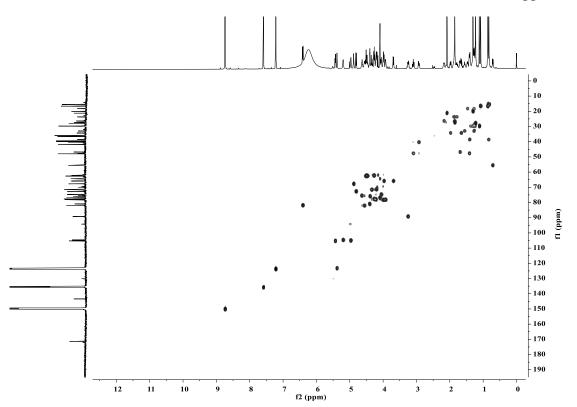
S28. HRESIMS spectrum of the new compound 4



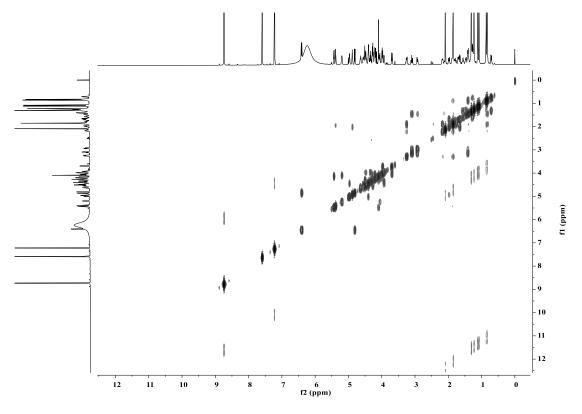
S29. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **5**



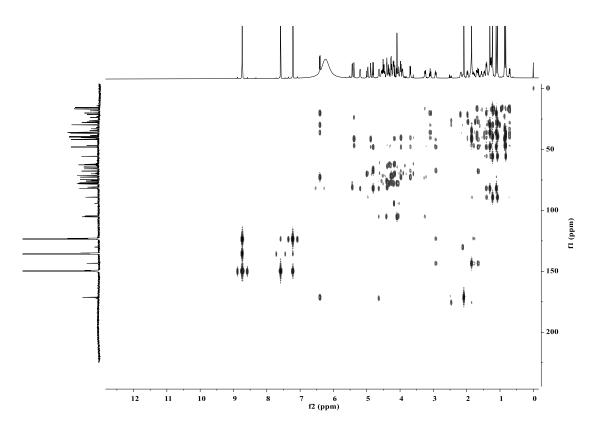
S30. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **5**



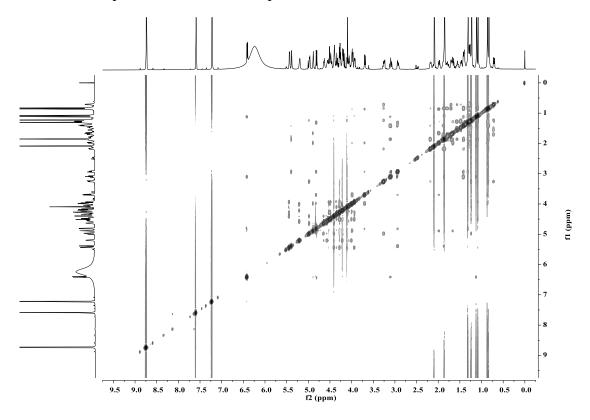
S31. HSQC Spectrum of the new compound **5**



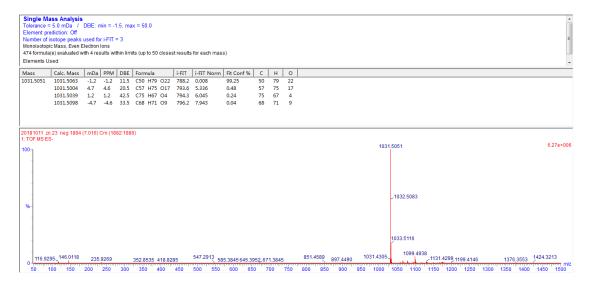
S32. ¹H-¹H COSY Spectrum of the new compound **5**



S33. HMBC Spectrum of the new compound **5**

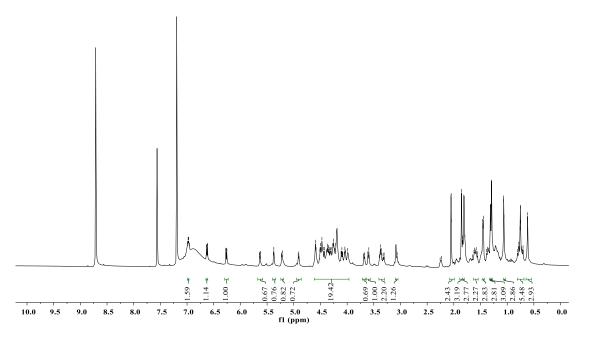


S34. NOESY Spectrum of the new compound **5**

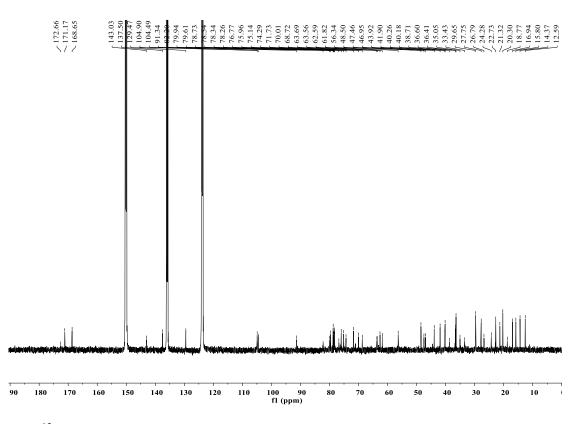


S35. HRESIMS spectrum of the new compound 5

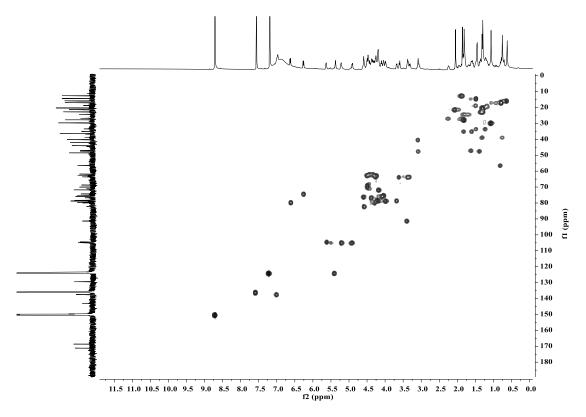
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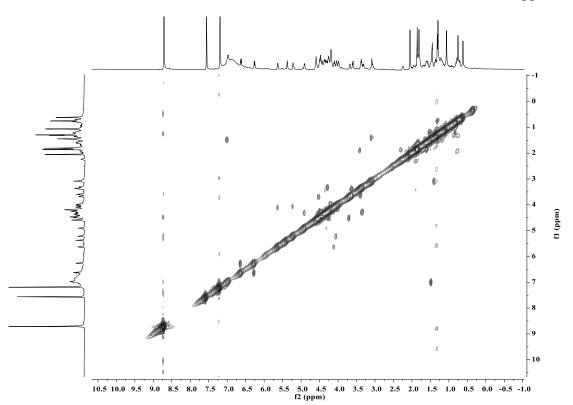
S36. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **6**



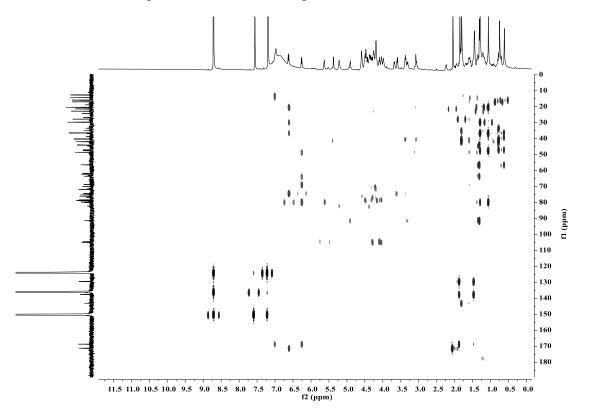
S37. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **6**



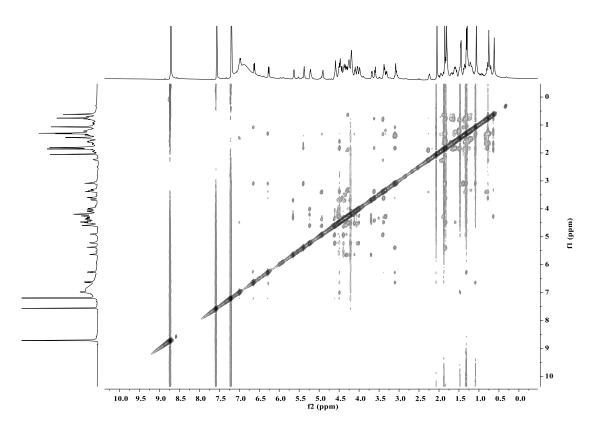
S38. HSQC Spectrum of the new compound **6**



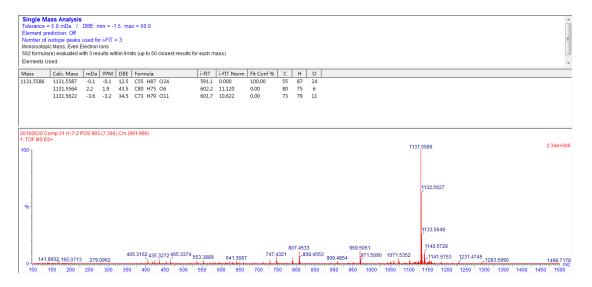
S39. 1 H- 1 H COSY Spectrum of the new compound 6



S40. HMBC Spectrum of the new compound **6**

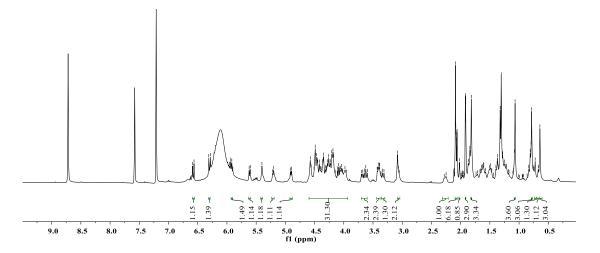


S41. NOESY Spectrum of the new compound **6**

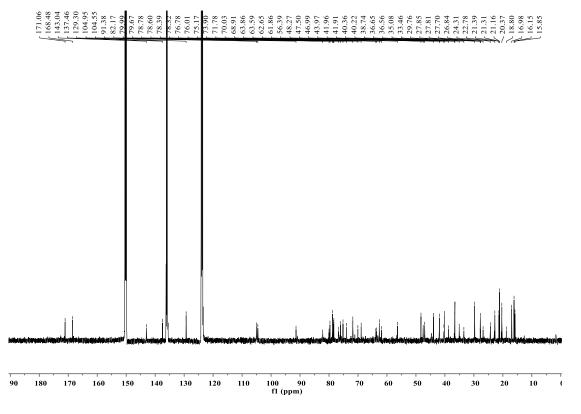


S42. HRESIMS spectrum of the new compound 6

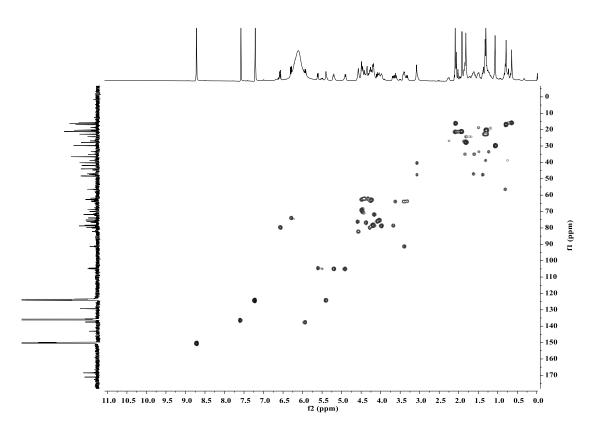
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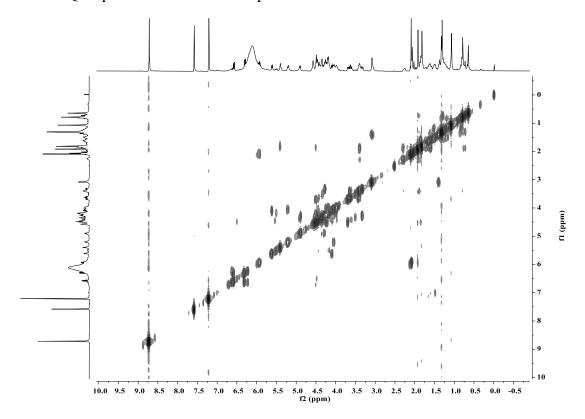
S43. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound 7



S44. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **7**

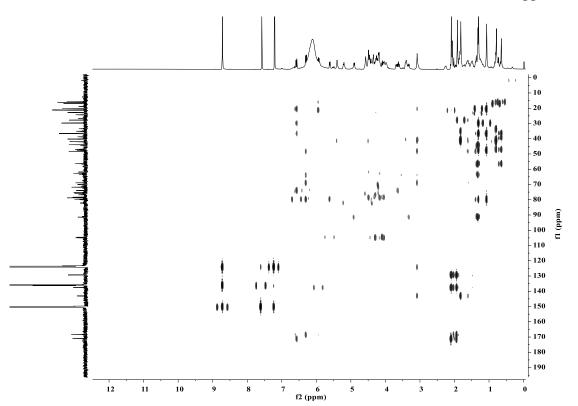


 ${\bf S45.}\ {\rm HSQC}\ {\rm Spectrum}\ of\ the\ new\ compound\ 7$

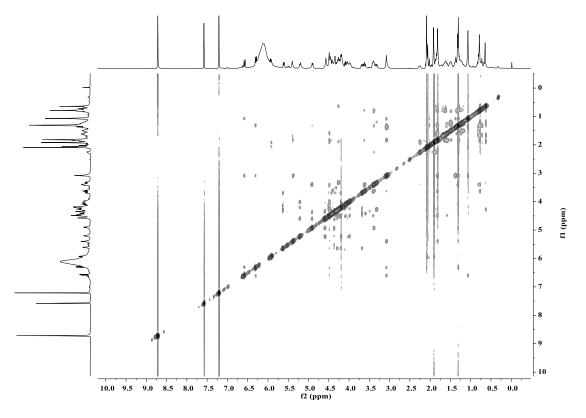


S46. $^{1}\text{H}^{-1}\text{H}$ COSY Spectrum of the new compound 7

Supplementary Material



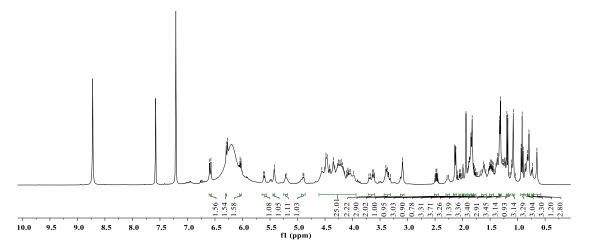
S47. HMBC Spectrum of the new compound 7



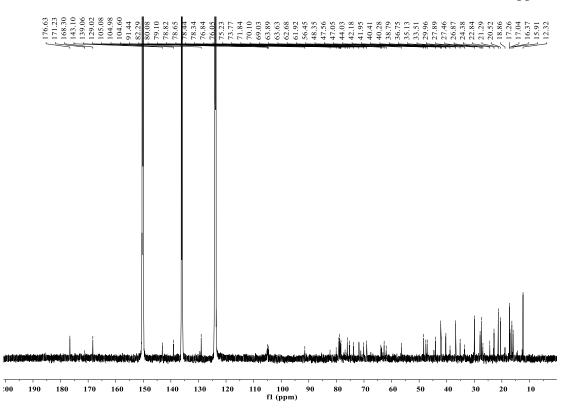
S48. NOESY Spectrum of the new compound **7**

Tolerance Element p Number o Monoisoto	Tass Analysi = 5.0 mDa / orediction: Off f isotope peaks pic Mass, Even la(e) evaluated Used:	DBE: r s used fo Electron	or i-FIT Ions	= 3			results f	for eac	ch mass)															
Mass	Calc. Mass	mDa	PPM	DBE	Formu	la	i-FI	T i-	-FIT Norm	Fit Conf %	С	н	0											
1129.5432		0.1	0.1			85 O24	612		0.007	99.31	55	85	24											
	1129.5407	2.5	2.2		C80 H		618		5.046	0.24	80	73	6											
	1129.5466	-3.4	-3.0	35.5	C73 F	77 011	617	7.7 5	5.399	0.45	73	77	11											
	Comp.32 1-7-3	neg 827	(3.093) Cm (8	25:829)																			
1: TOF MS I	±S-																					9.5432		1.73e+007
100																						.0.0402		
																						1130.5468		
%-																								
																					1099,532	1131.5496		
																						1132.5525		
				283.265							629.4	1051								1097.	5284	1132.5525	1192.5381	
0 122.8		08.242.1	/59 .	/		401.0883				21 593.4773				769.4091				80967.48						39.4594 m/z
100	150 20	0 2	50	300	350	400	450	5	500 55	0 600	65	0 '	700	750 80	00 0	850	900	950	1000	1050	1100	1150	1200 125	0 1300

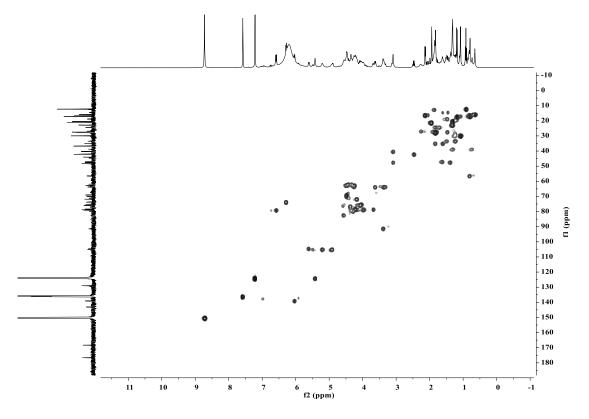
 ${\bf S49.}\ {\bf HRESIMS}\ {\bf spectrum}\ of\ the\ new\ compound\ 7$



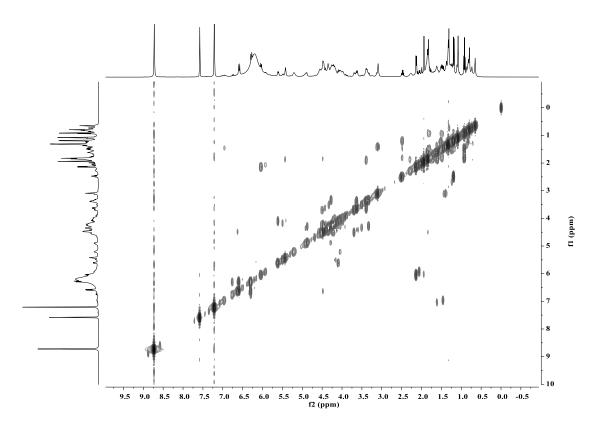
S50. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **8**



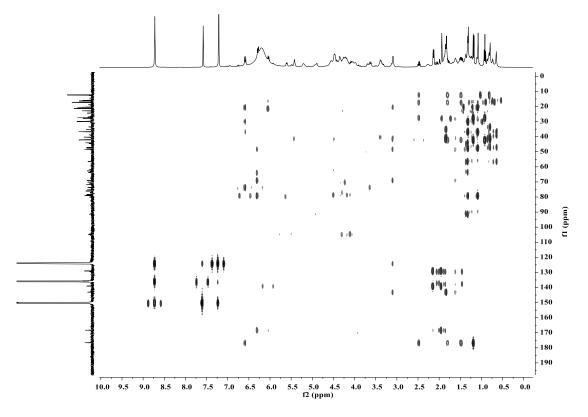
S51. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **8**



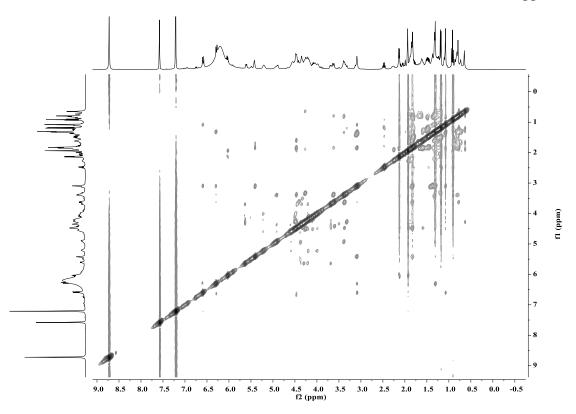
S52. HSQC Spectrum of the new compound **8**



S53. $^{1}\text{H}^{-1}\text{H}$ COSY Spectrum of the new compound 8



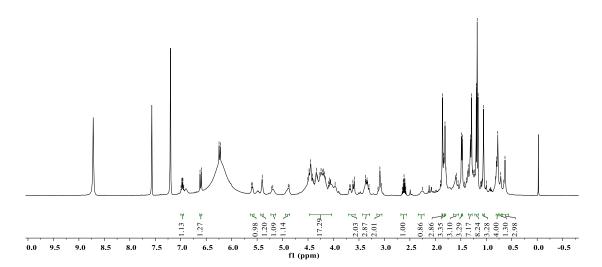
S54. HMBC Spectrum of the new compound **8**



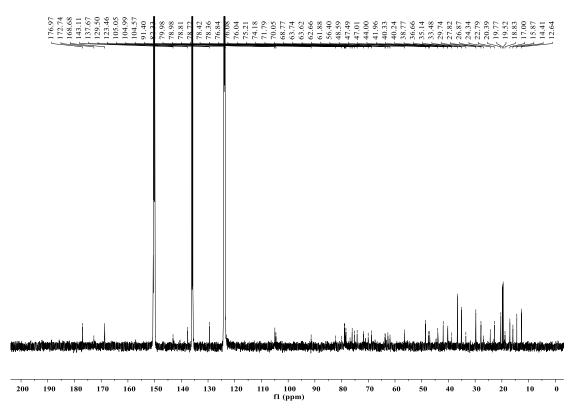
S55. NOESY Spectrum of the new compound **8**

Tolerance = Element pro Number of i Monoisotopi	sotope peaks (c Mass, Even E (e) evaluated wi	DBE: n used fo lectron	r i-FIT : Ions	= 3		closestres	ults for ea	ach mass)															* III +
Mass	Calc. Mass	mDa	PPM	DBE	Formula		i-FIT	i-FIT Norm	Fit Conf %	С	н	0											
1171.5908	1171.5900	0.8	0.7		C58 H91	O24		0.001	99.93	58	91	24											
	1171.5935	-2.7	-2.3		C76 H83		580.2		0.06	76	83	11											
	1171.5877	3.1	2.6	44.5	C83 H79	O6	581.8	9.092	0.01	83	79	6											
20160830 Co 1: TOF MS ES	omp.3316-4-7-7	NEG 1	053 (3.	932) Cr	n (1053:105	;5)																	
100-1																				117	1.5908	6.	41e+006
96-																					1172.5947		
0-4	.5588 242.1	777_20		297.1	525	400	450	59:	3.4786 625.2 600	964		721.46	18	811.4598	 881	977.5104	1007.520	7	1123.568	2	1173.5974 1174.5999 1204.5752		58 1300

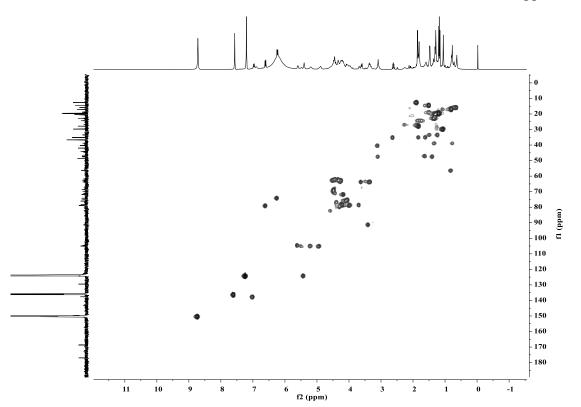
S56. HRESIMS spectrum of the new compound **8**



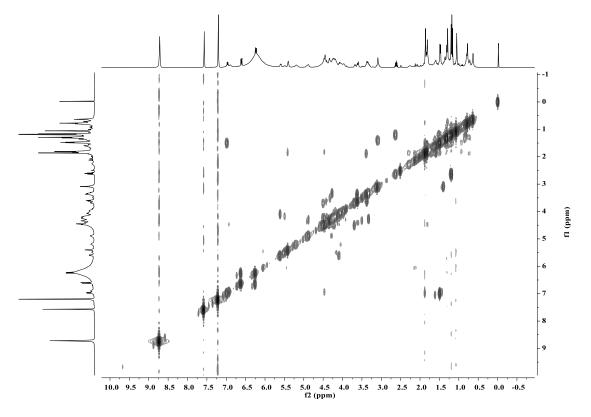
S57. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **9**



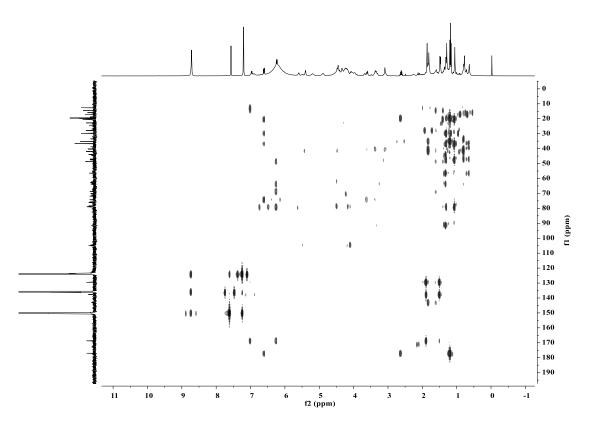
S58. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **9**



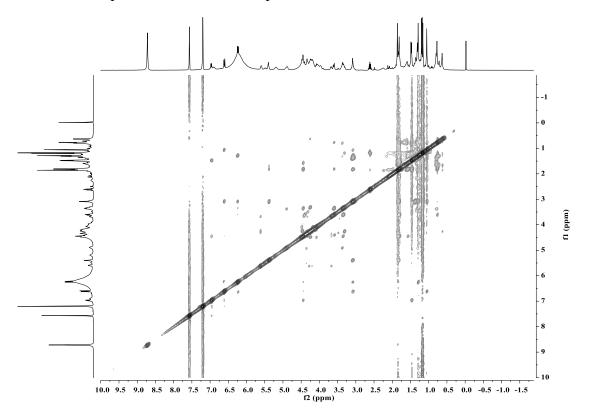
S59. HSQC Spectrum of the new compound **9**



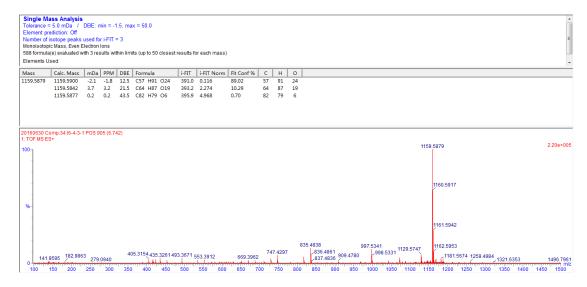
S60. 1 H- 1 H COSY Spectrum of the new compound 9



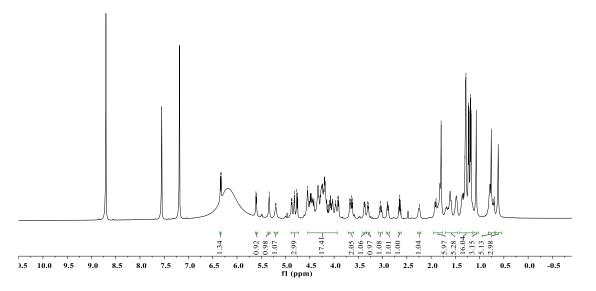
S61. HMBC Spectrum of the new compound **9**



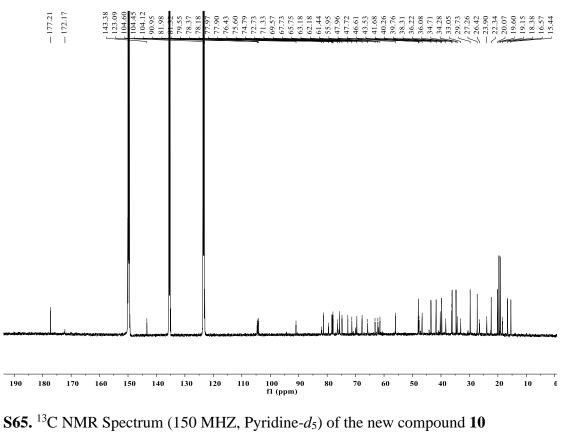
S62. NOESY Spectrum of the new compound 9

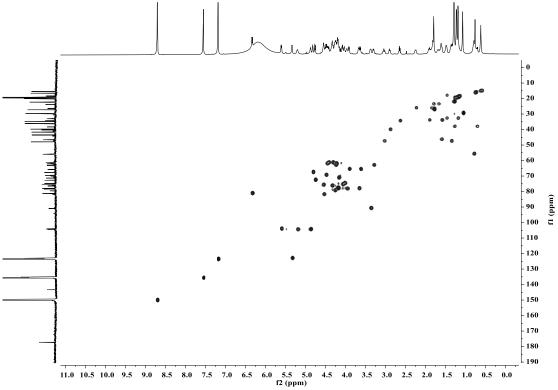


S63. HRESIMS spectrum of the new compound 9

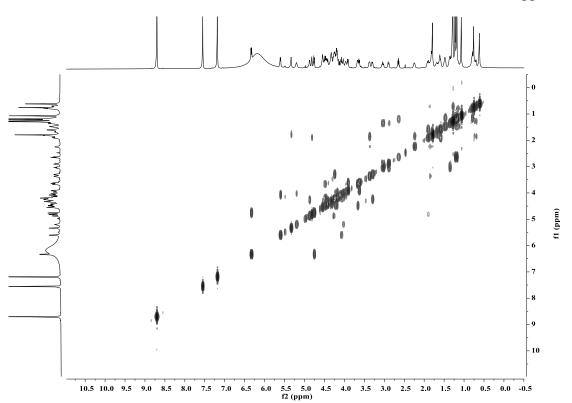


S64. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **10**

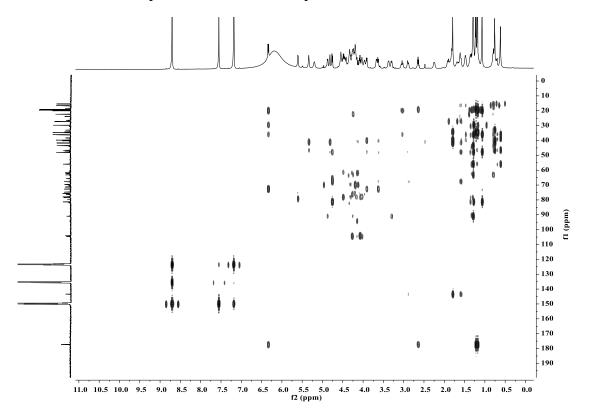




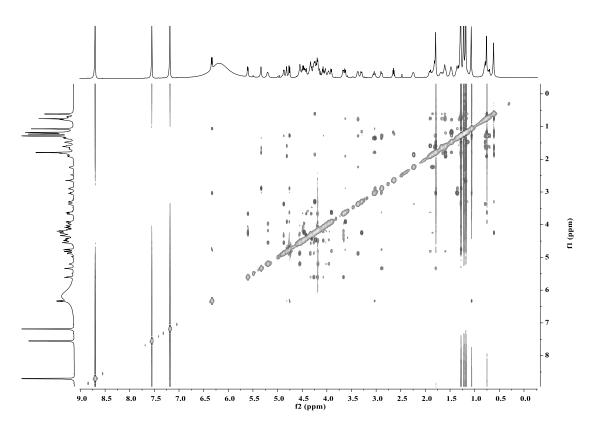
S66. HSQC Spectrum of the new compound **10**



S67. $^{1}H^{-1}H$ COSY Spectrum of the new compound 10



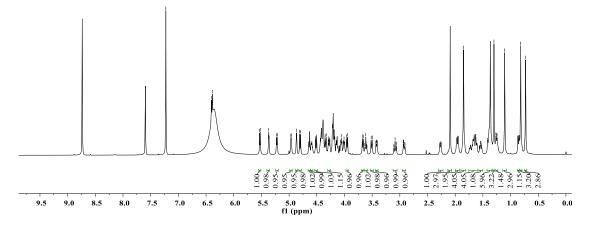
S68. HMBC Spectrum of the new compound **10**



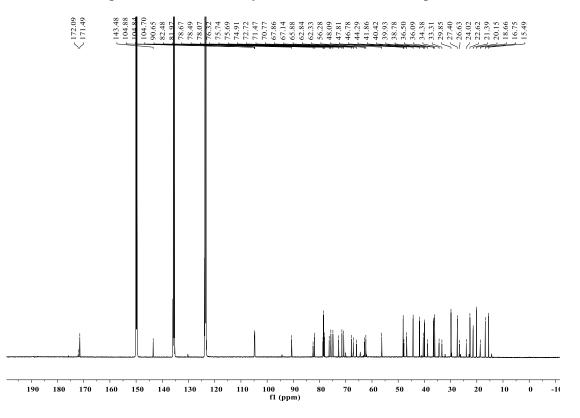
S69. NOESY Spectrum of the new compound **10**

Tolerance = Element pre Number of is Monoisotopi	sotope peaks c Mass, Even E (e) evaluated w	DBE: r used fo	r i-FIT : Ions	= 3) closes	it results	for each mass)								E
Mass	Calc, Mass	mDa	DDM	DBE	Formula		i-FIT	i-FIT Norm	Fit Conf %	С	н	0					
1077.5471	1077.5482	-1.1	-1.0		C52 H85	023	715.5		99.54	52	85	23					
10///.04/1	1077.5458	1.3	1.2		C77 H73		723.3		0.04	77	73	5					
	1077.5517	-4.6	-4.3		C70 H77		724.1		0.02	70	77	10					
	1077.5423	4.8	4.5		C59 H81				0.40	59	81	18					
20181218 zn 1: TOF MS ES	7 pos 2080 (7. ;+	.748) Cr	n (2058	:2088)											1077	.5471	8.48e+006
- - 96-																1078.5505	
0-	137.9882 00 150			0.1782		N	3253 47 ⁻ 450		629.3673 665 600 650	1		V	4457 827.4401	5.4928	1047.5352	1079.5546 1095.0754 1095.5769 1100.5302 1177.4711 1100 1150 1200 1250 13	1455.7126 1450 1500

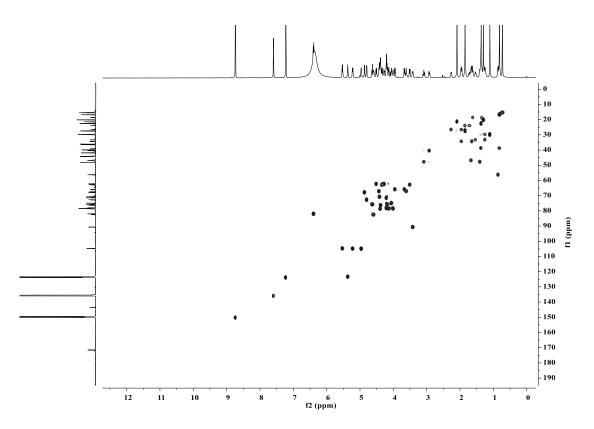
S70. HRESIMS spectrum of the new compound **10**



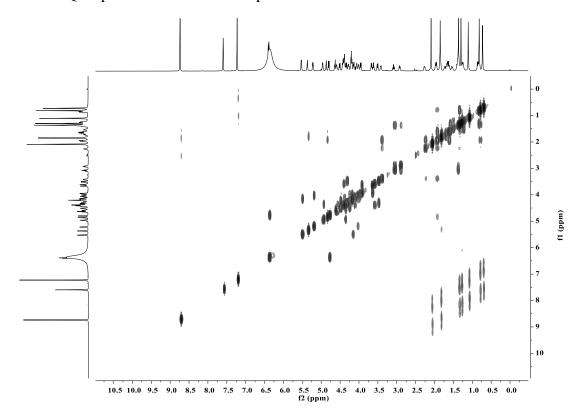
S71. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **11**



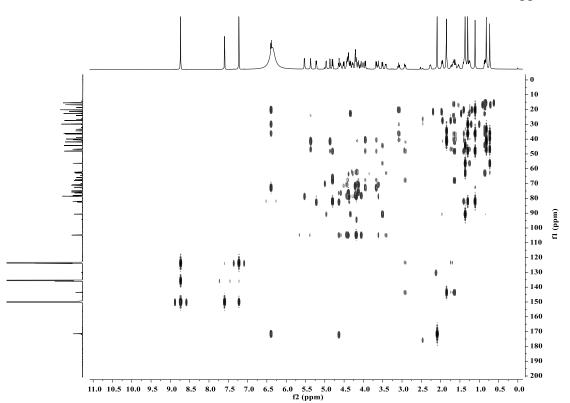
S72. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **11**



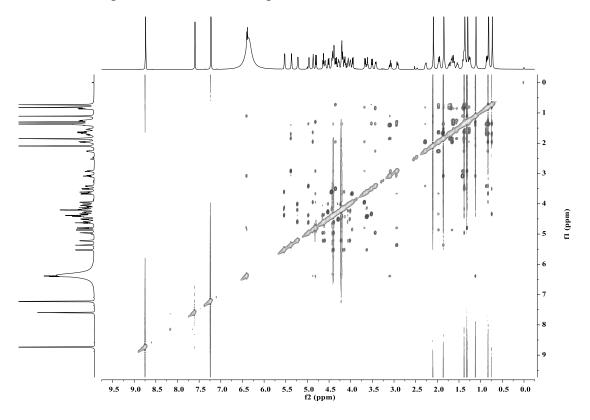
S73. HSQC Spectrum of the new compound **11**



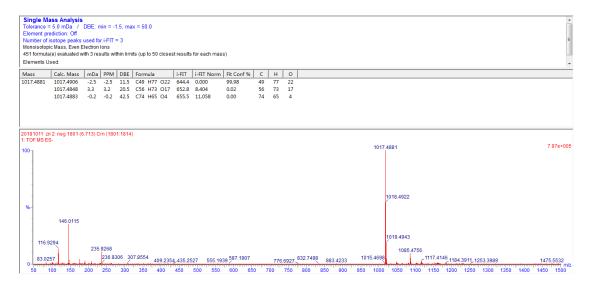
S74. ^{1}H - ^{1}H COSY Spectrum of the new compound **11**



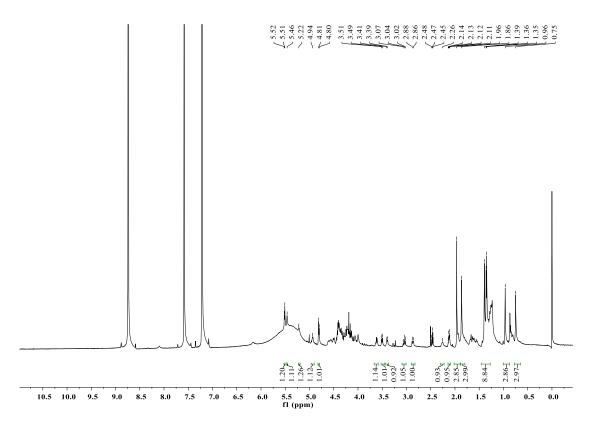
S75. HMBC Spectrum of the new compound 11



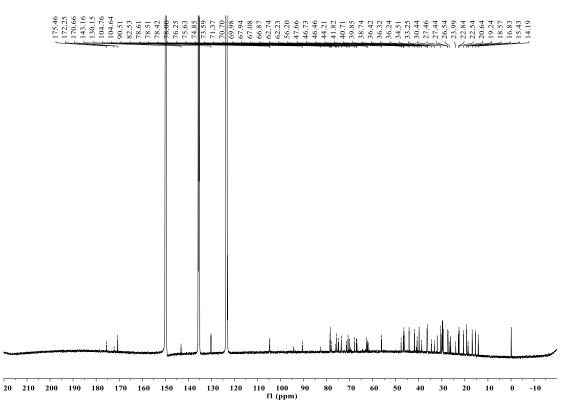
S76. NOESY Spectrum of the new compound **11**



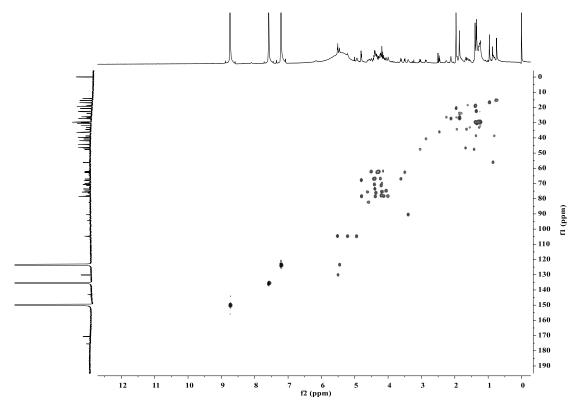
S77. HRESIMS spectrum of the new compound 11



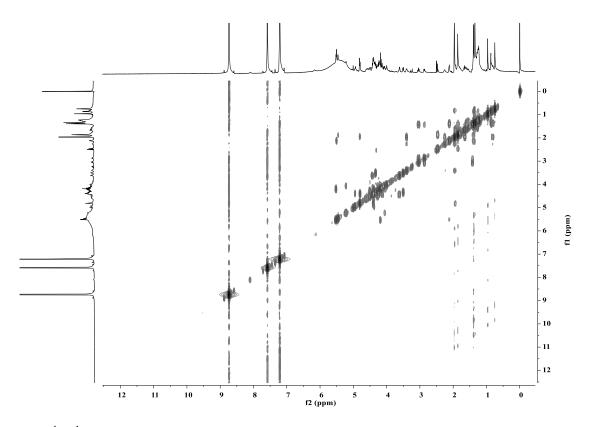
S78. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **12**



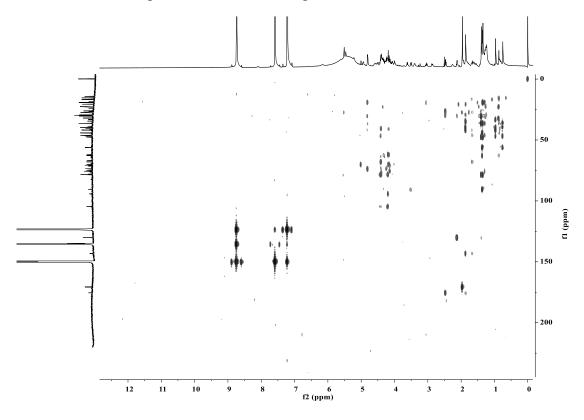
S79. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **12**



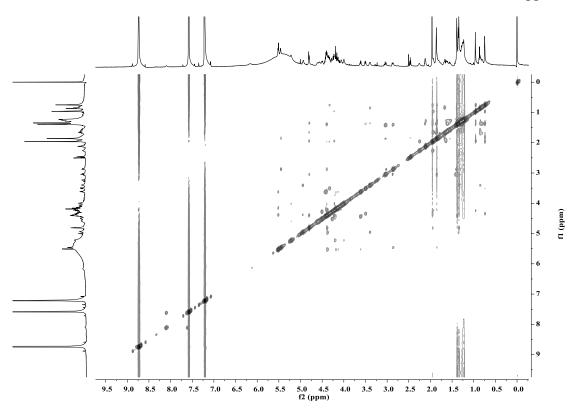
S80. HSQC Spectrum of the new compound **12**



S81. ^{1}H - ^{1}H COSY Spectrum of the new compound **12**



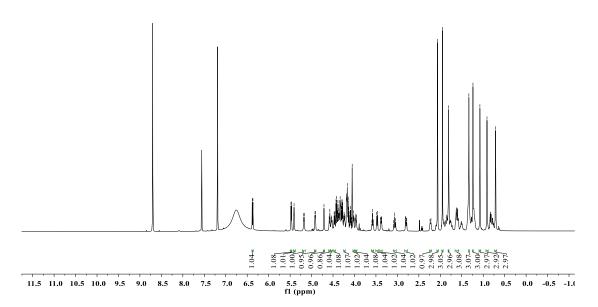
S82. HMBC Spectrum of the new compound **12**



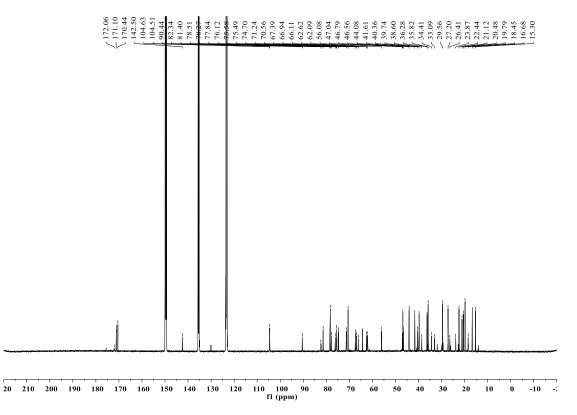
 ${\bf S83.}$ NOESY Spectrum of the new compound ${\bf 12}$

Tolerance = Element pre Number of is Monoisotopi	sotope peaks (c Mass, Even E (e) evaluated w	DBE: n used fo lectron	r i-FIT = Ions	= 3	x = 50.0 its (up to 50 closes	st results 1	for each mass;)								
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	i-FIT Norm	Fit Conf %	c	н	0					
1017.4890	1017.4906	-1.6			C49 H77 O22		0.034	96.69	49	77	22					
	1017.4848	4.2	4.1		C56 H73 O17	815.7	3.583	2.78	56	73	17					
	1017.4883	0.7	0.7	42.5	C74 H65 O4	817.3	5.246	0.53	74	65	4					
20181011 zn 1: TOF MS ES	9 neg 1533 (5 -	.717) C	m (153	0:1540)	1											
100 J														101	7.4890	2.90e+007
- - - 96-															1018.4920	
0_116.929	95_146.0118	235.	9270,2	61.135	9 336.8584		580.7095		87.374	48		337.4269	883.4304	1017.4150	1019.4946 1020.4975 1085.4766_1160.4003 1357.6617 0 1050 1100 1150 1200 1250 1300 1350 1400	m/z

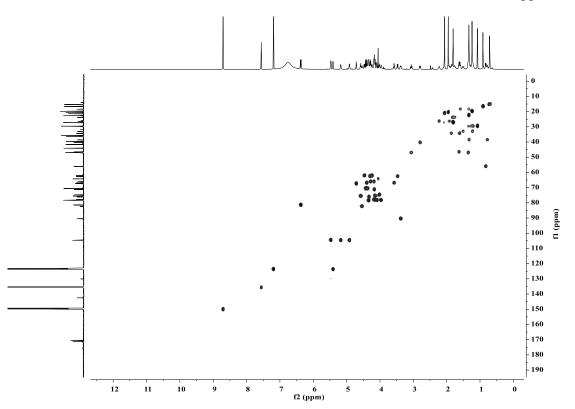
S84. HRESIMS spectrum of the new compound 12



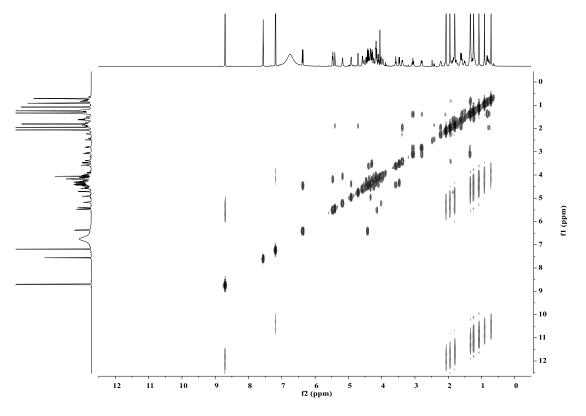
S85. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **13**



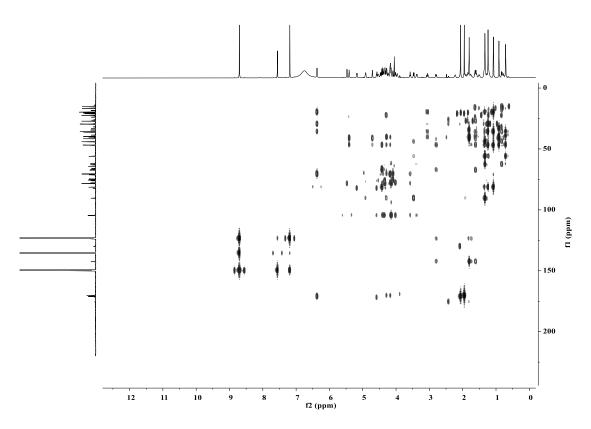
S86. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **13**



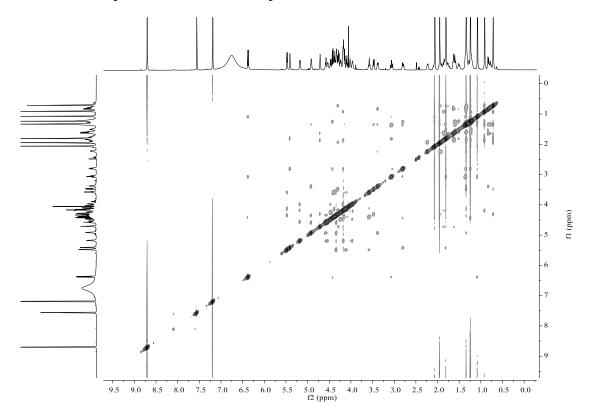
S87. HSQC Spectrum of the new compound **13**



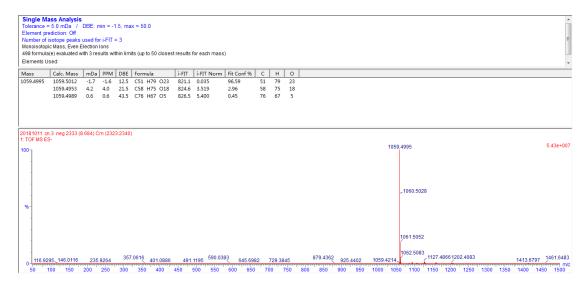
S88. ¹H-¹H COSY Spectrum of the new compound **13**



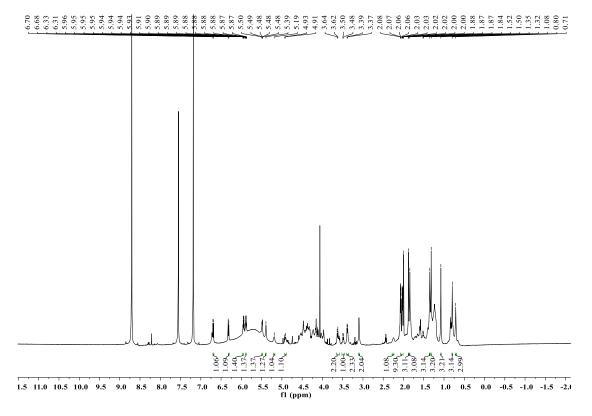
S89. HMBC Spectrum of the new compound **13**



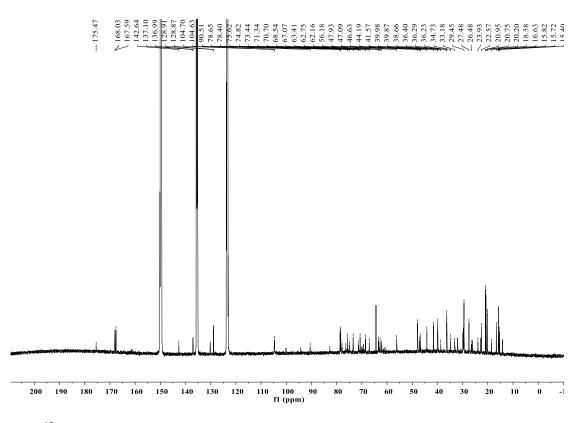
S90. NOESY Spectrum of the new compound



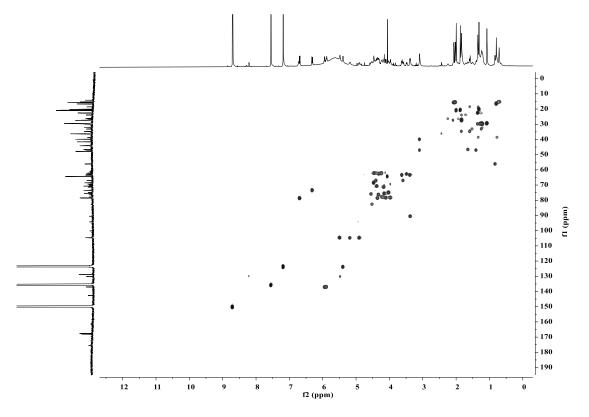
S91. HRESIMS spectrum of the new compound **13**



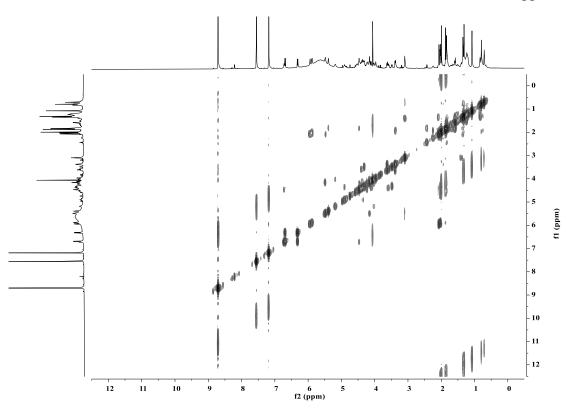
S92. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **14**



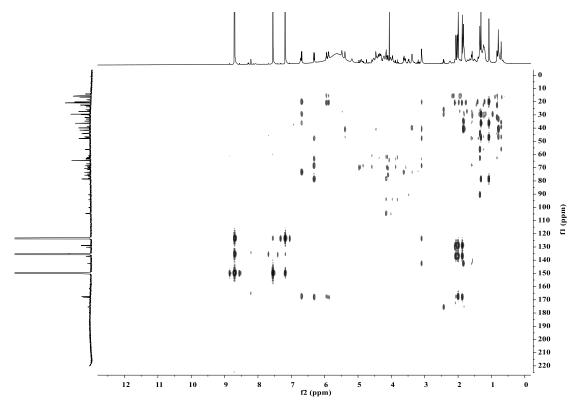
S93. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **14**



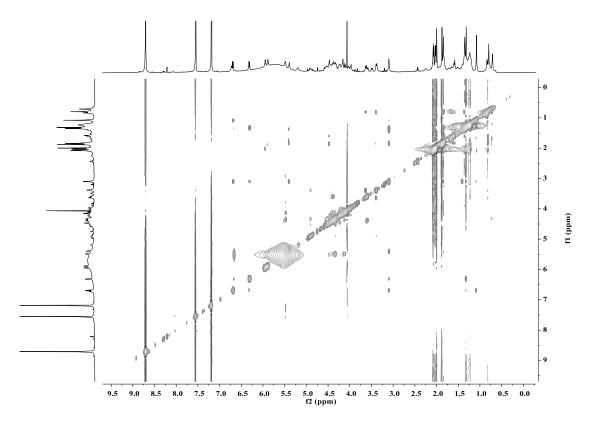
S94. HSQC Spectrum of the new compound **14**



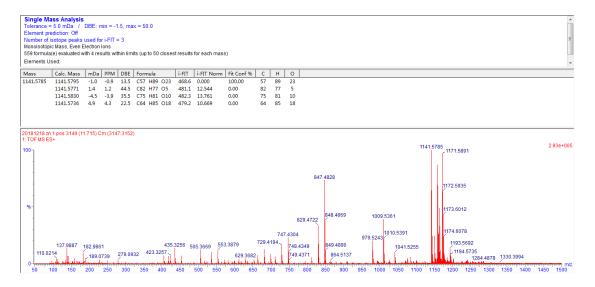
S95. ¹H-¹H COSY Spectrum of the new compound **14**



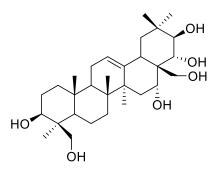
S96. HMBC Spectrum of the new compound **14**



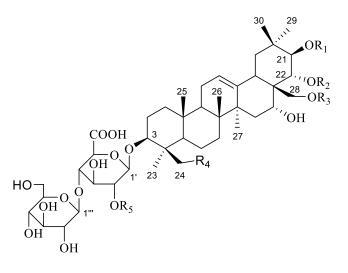
S97. NOESY Spectrum of the new compound **14**

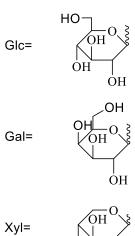


S98. HRESIMS spectrum of the new compound 14



S99. The structure of compound **14a**



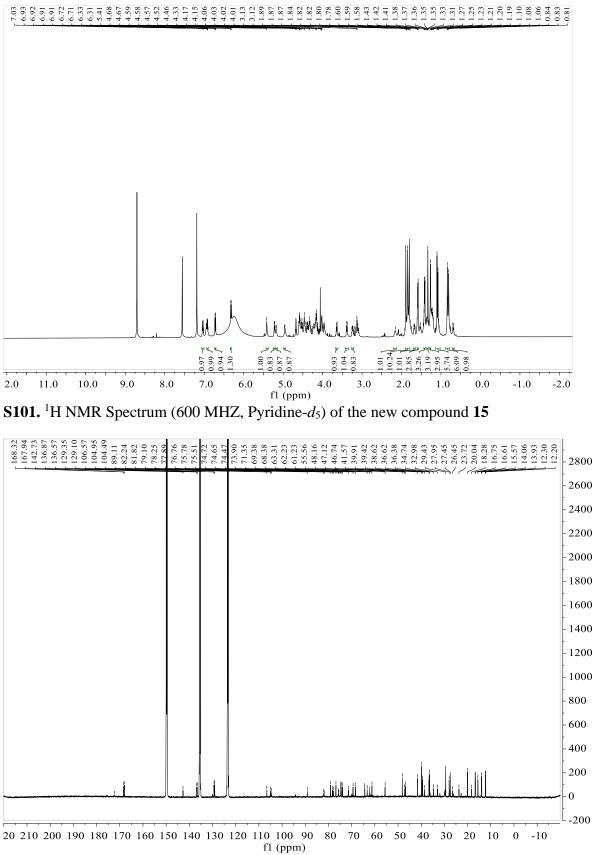




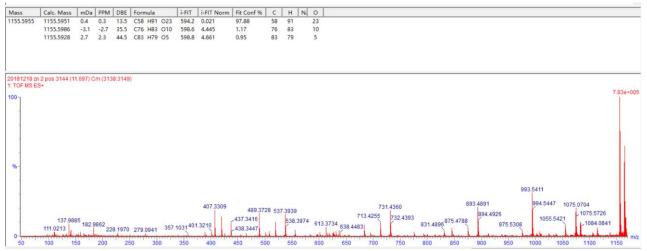
$$Tig = \frac{0}{1} \frac{2}{5} \frac{3}{4} \quad Ang = \frac{0}{1} \frac{2}{5} \frac{4}{5} \quad MB = \frac{0}{1} \frac{3}{5} \frac{3}{4} \quad IB = \frac{0}{1} \frac{2}{4} \quad AC = \frac{0}{1} \frac{2}{2}$$

15 16	R ₁ =Tig, R ₁ =Ang,	R ₂ =Tig, R = Ang	R ₃ =H, R ₃ =H,	R ₄ =H, R ₄ =OH,	R ₅ =Gal-p R ₅ =Glc-p
10	R_1 =Aiig, R_1 =Tig,	R ₂ =Ang, R ₂ =Ac,	R ₃ =н, R ₃ =Н,	R ₄ =OH, R ₄ =OH,	$R_5 = Glc - p$ $R_5 = Glc - p$
18	$R_1 = Ang,$	$R_2 = Ac,$ $R_2 = Ac,$	R ₃ =H,	R ₄ =OH,	$R_5 = Glc - p$
19	$R_1 = Tig,$	R ₂ =H,	$R_3 = Ac$,	R ₄ =OH,	$R_5 = Glc - p$
20	$R_1 = Ang,$	R ₂ =H,	$R_3 = Ac$,	R ₄ =OH,	$R_5 = Glc - p$
21	$R_1 = Ang,$	R₂=H,	$R_3 = Ac$,	R ₄ =OH,	$R_5 = Xyl - p$
22	$R_1 = Tig,$	$R_2 = Ac$,	R ₃ =H,	R ₄ =H,	$R_5 = Gal - p$
23	$R_1 = Ac$,	$R_2 = Ac$,	R ₃ =Н,	R ₄ =OH,	$R_5 = Glc - p$
24	R ₁ =IB,	R ₂ =Ac,	R ₃ =H,	R ₄ =OH,	$R_5 = Glc - p$
25	R ₁ =H,	R ₂ =H,	R ₃ =Ac,	R ₄ =OH,	$R_5 = Glc - p$
26	R ₁ =H,	R ₂ =Ac,	R ₃ =Ac,	R ₄ =OH,	$R_5 = Glc - p$
27	R ₁ =Ac,	R ₂ =H,	R ₃ =H,	R ₄ =OH,	$R_5 = Glc - p$
28	R ₁ =Tig,	R ₂ =H,	R ₃ =H,	R ₄ =OH,	$R_5 = Glc - p$
29	R ₁ =Ang,	R ₂ =H,	R ₃ =H,	R ₄ =OH,	$R_5 = Glc - p$
30	R ₁ =Ac,	R ₂ =H,	R ₃ =Ac,	R ₄ =OH,	$R_5 = Glc - p$
31	R ₁ =H,	R ₂ =H,	R3=H,	R ₄ =OH,	$R_5 = Glc - p$
32	R ₁ =H,	R ₂ =H,	R3=H,	R ₄ =OH,	R ₅ =Xyl-p
33	R ₁ =Ang,	R ₂ =H,	R ₃ =H,	R ₄ =OH,	$R_5 = Xyl-p$

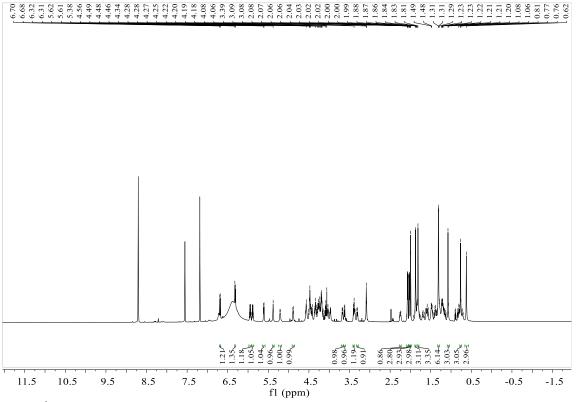
S100. The structures of compounds 15-33



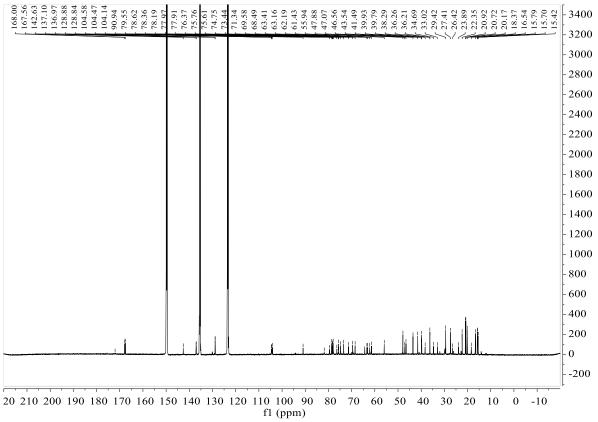
S102. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **15**



S103. HRESIMS spectrum of the new compound 15



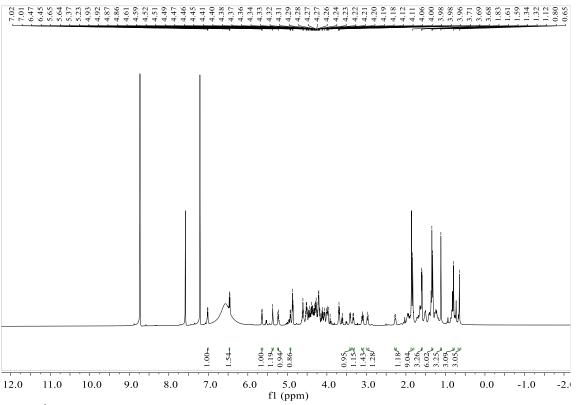
S104. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **16**



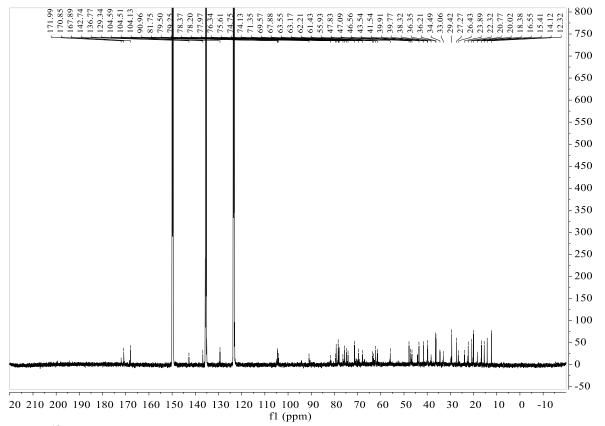
S105. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **16**

				0.05	a 1		1.000	1.000.00	1 m a 1 a				_							
Mass	Calc. Mass		_		Formula				Fit Conf %			N. (
1171.5903	1171.5900	0.3	0.3	13.5	C58 H91	024	694.8	n/a	n/a	58	91	2	24							
20181218 zn 1: TOF MS ES	3 pos 3166 (1 3+	1.782) (Cm (315	1:3166))															
100-																		1171.	5903	8.27e+006
- - 96-																			1172.5946	
																			1173.5997	
111.021	2_137.9885	182.98	63 27	9.0939	405.3		5.3259	553	3.3887 611.35	73 681	1.399	2 747.4	4312	847.483	909 4846	1009.5363	(1181.1080 1195.5800 1271.5134 1333.6322	
50 1	100 150	200	250	300	350	400	450		50 600	650	70		50 8		900 95	50 1000	1050 1100	1150	1200 1250 1300 1350 1400 14	50 1500

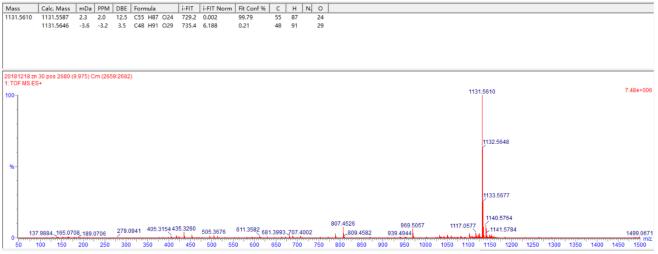
S106. HRESIMS spectrum of the new compound 16



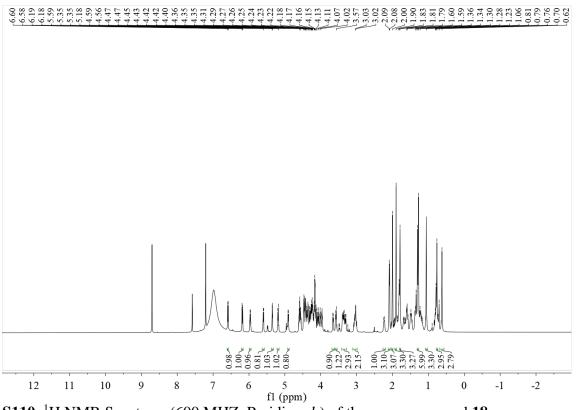
S107. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound 17



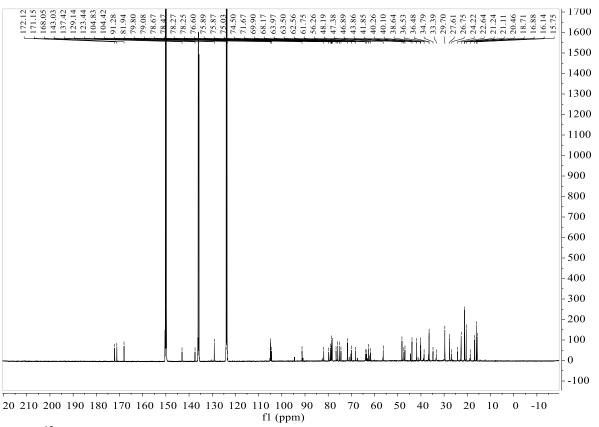
S108. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 17



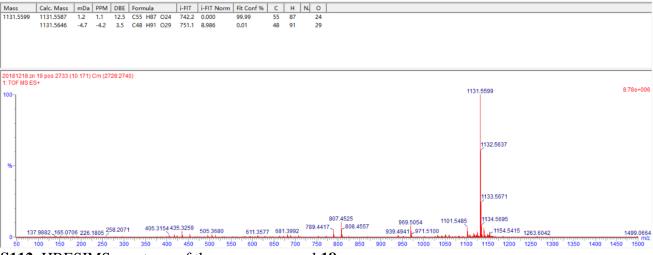
S109. HRESIMS spectrum of the new compound 17



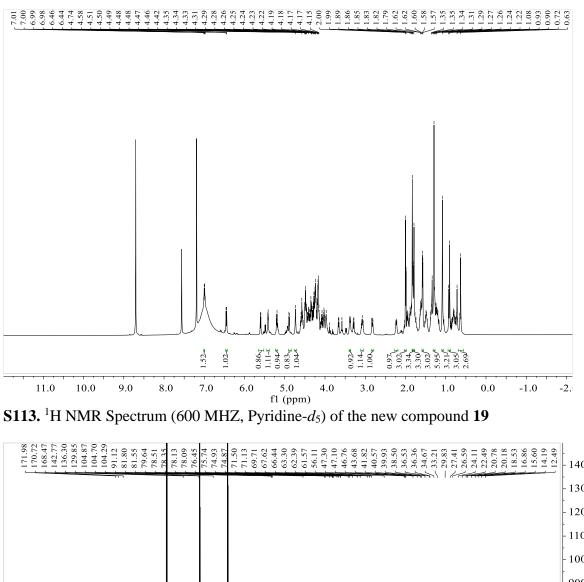
S110. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **18**

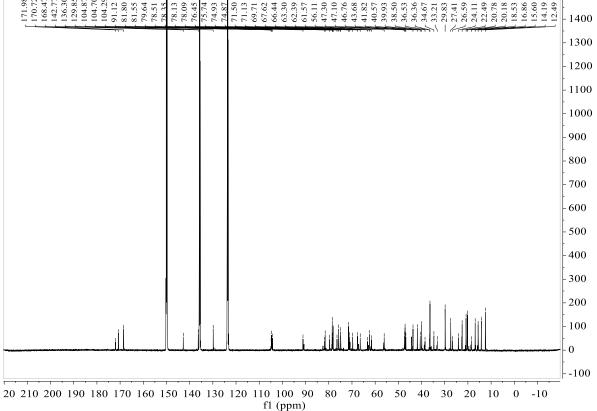


S111. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **18**

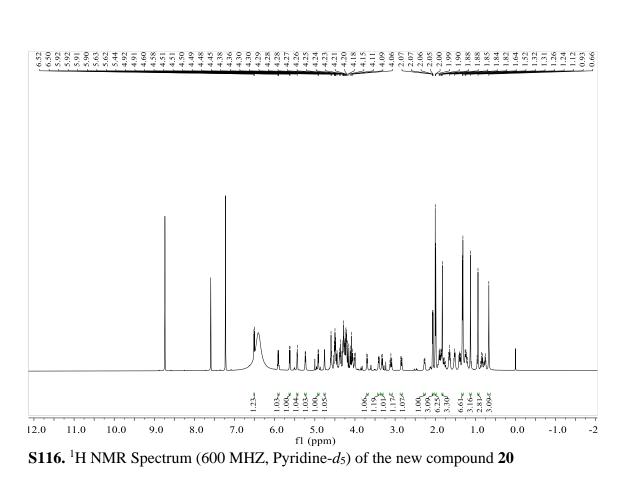


S112. HRESIMS spectrum of the new compound 18

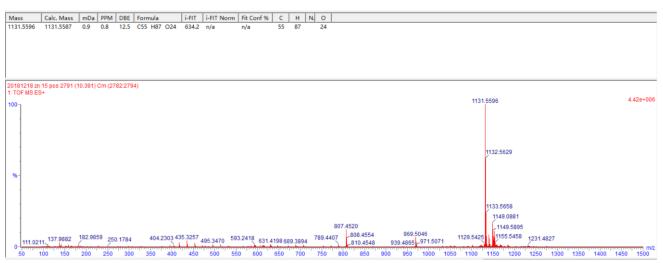


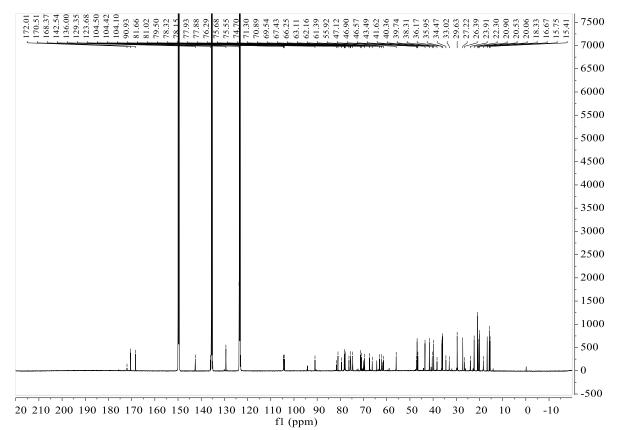


S114. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 19



S115. HRESIMS spectrum of the new compound 19

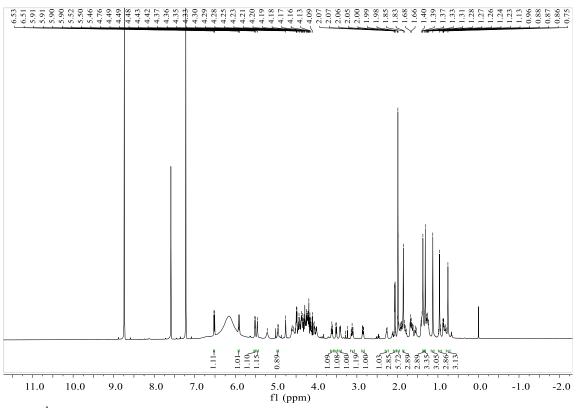




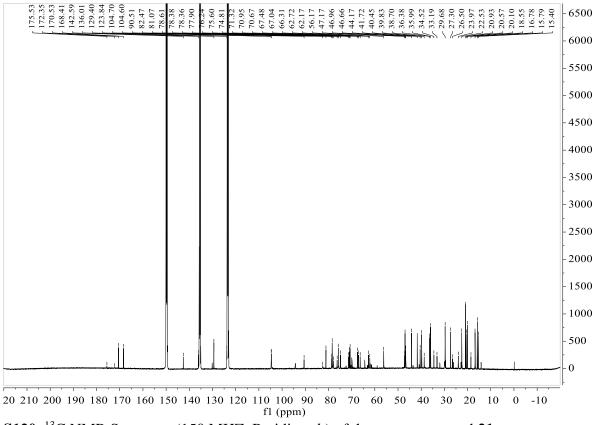
S117. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 20

1														
Mass	Calc. Mass	mDa	PPM	DBE	Formula		i-FIT	i-FIT Norm	n Fit Conf %	С	H	N. (0	
1131.5581	1131.5587	-0.6	-0.5	12.5	C55 H87	7 024	473.3	n/a	n/a	55	87	2	24	4
20181218 zn 1: TOF MS ES	n 8 pos 2822 (1) S+	0.501) (Cm (28	14:2830)									
100 7														1131,5581 3.98e+005
- - - %-														1132.5620
4	6.2599 17.3163 435. 400 425	l í			3470		2379.60	5.7005	.3657 689.3 650 675	3905	 3997	771.4	322	807.4518 22 789.4415 808.4559 857.6473 951.4977 969.5054 775 800 825 850 875 900 925 950 975 1000 1025 1050 1075 1100 1125 1150 1175

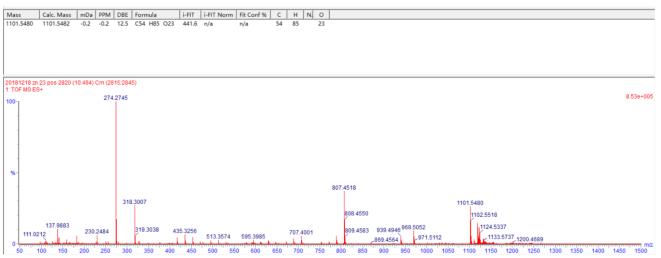
S118. HRESIMS spectrum of the new compound 20



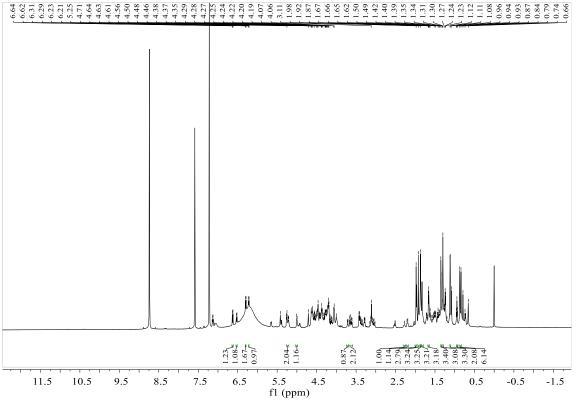
S119. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound **21**



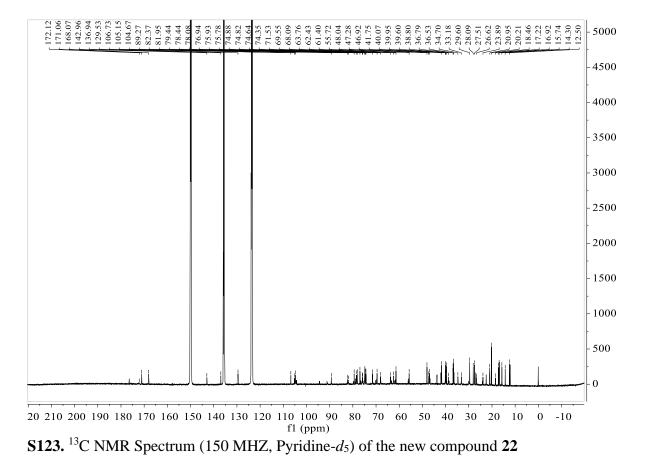
S120. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **21**

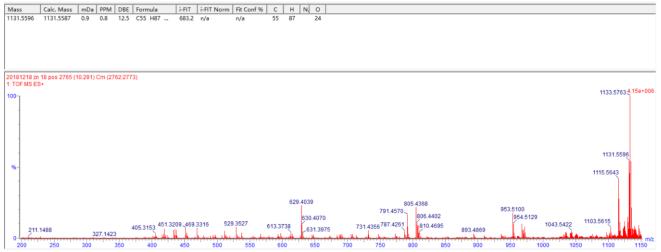


S121. HRESIMS spectrum of the new compound 21

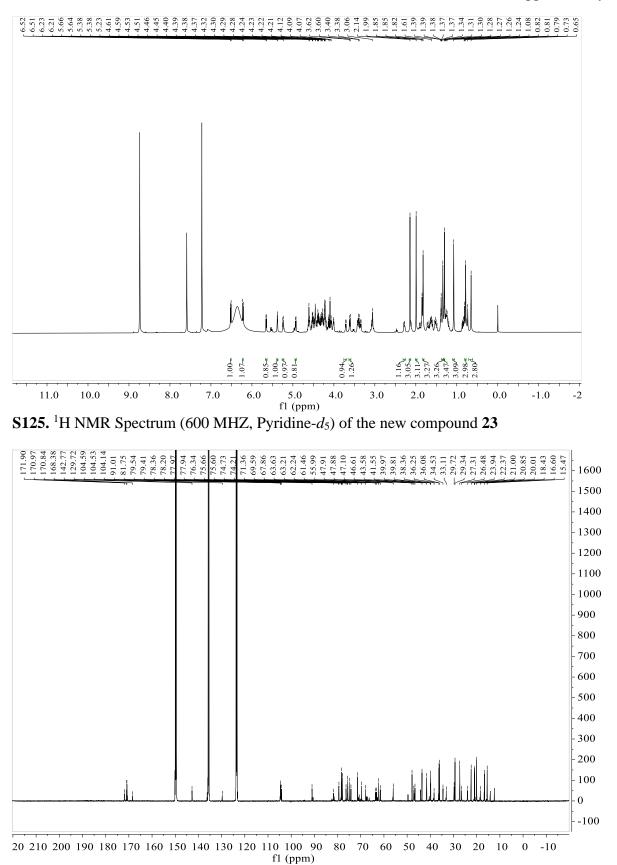


S122. ¹H NMR Spectrum (600 MHZ, Pyridine- d_5) of the new compound **22**

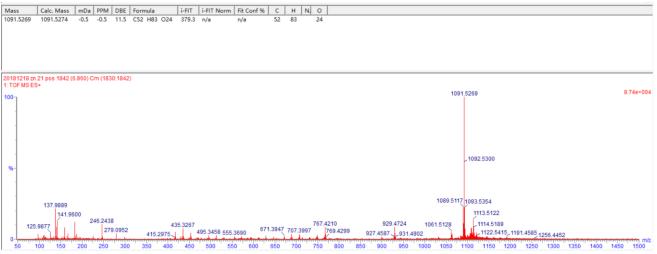




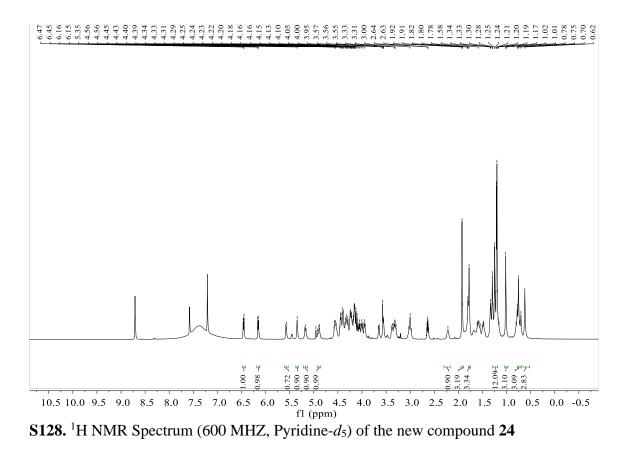
S124. HRESIMS spectrum of the new compound 22

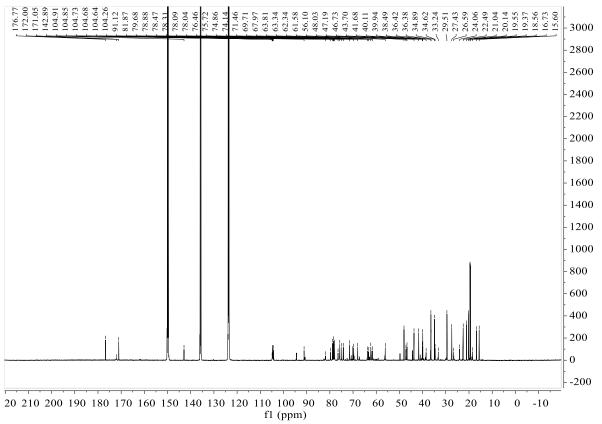


S126. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 23

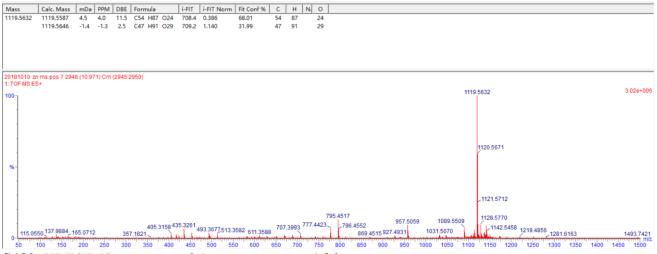


S127. HRESIMS spectrum of the new compound 23

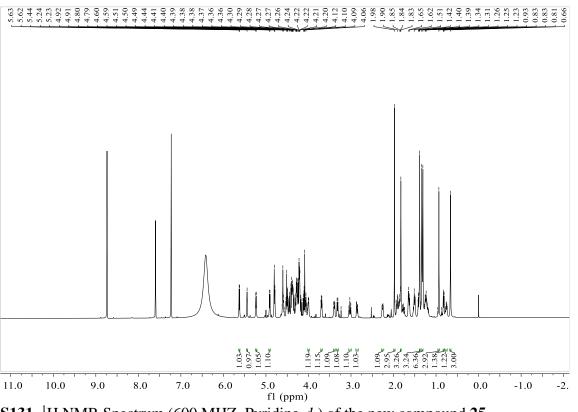




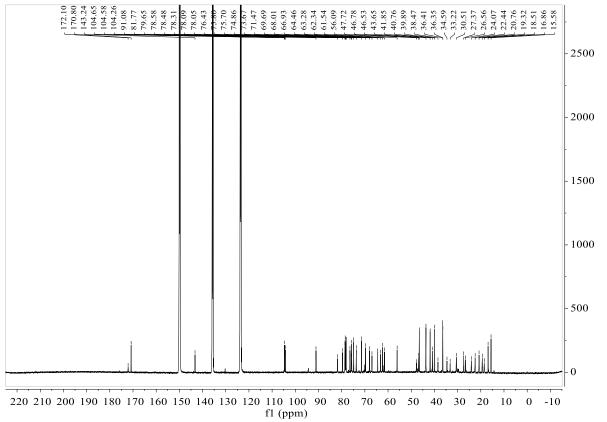
S129. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **24**



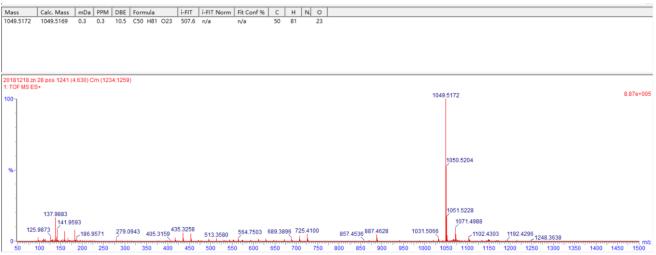
S130. HRESIMS spectrum of the new compound 24



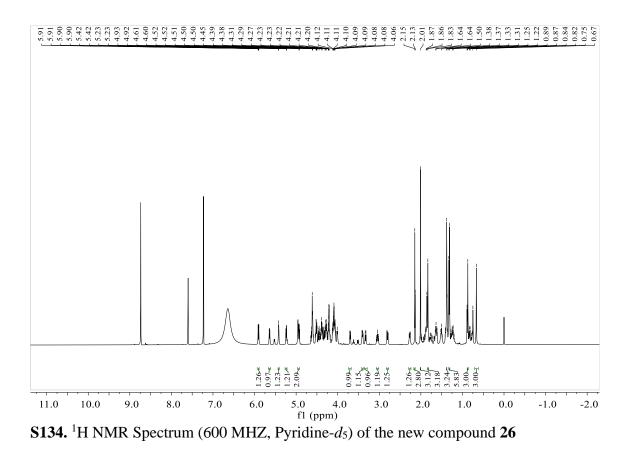
S131. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound 25

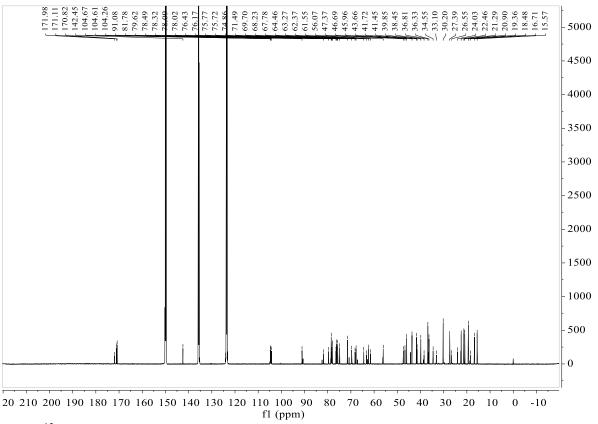


S132. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 25

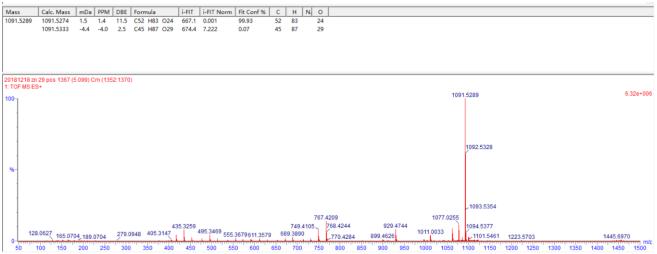


S133. HRESIMS spectrum of the new compound 25

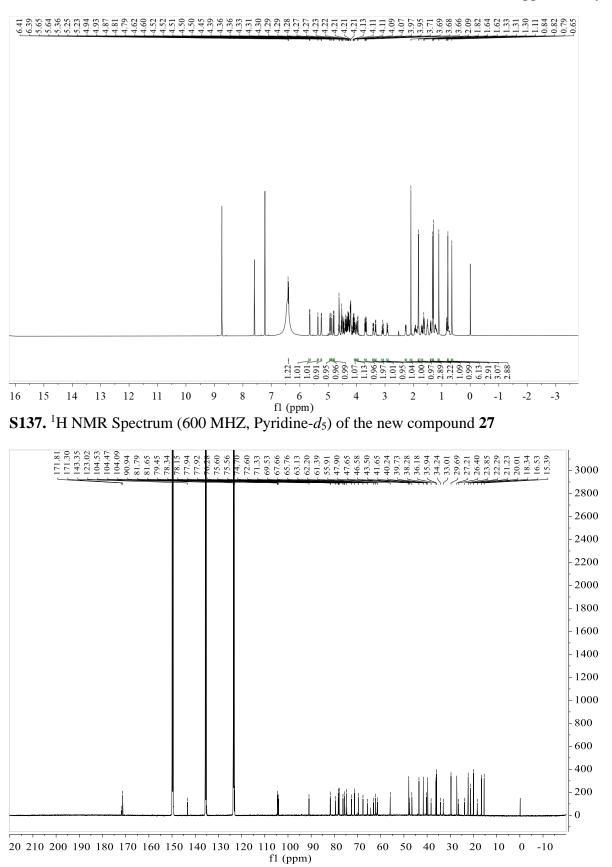




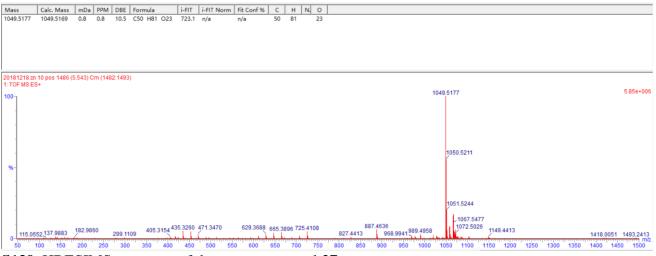
S135. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 26



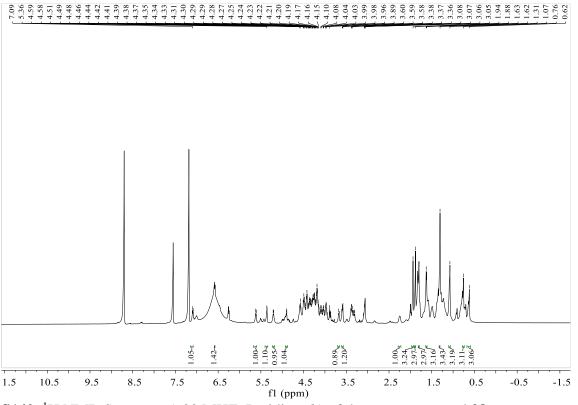
S136. HRESIMS spectrum of the new compound 26



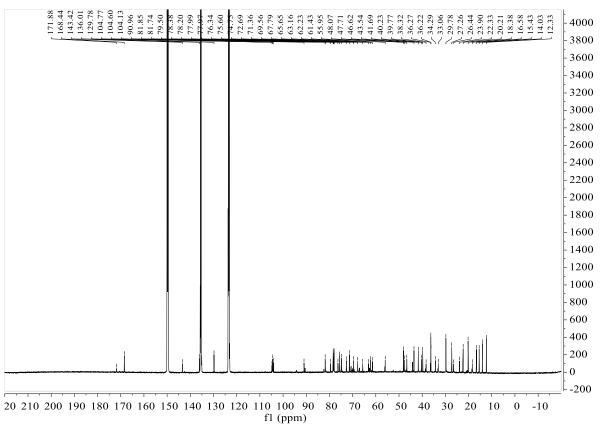
S138. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **27**



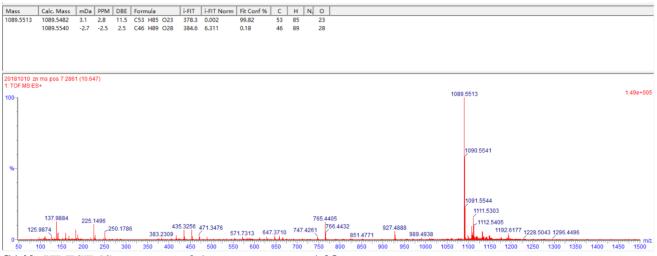
S139. HRESIMS spectrum of the new compound 27



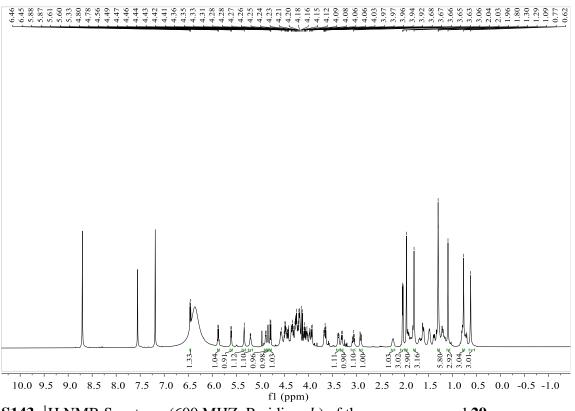
S140. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound 28



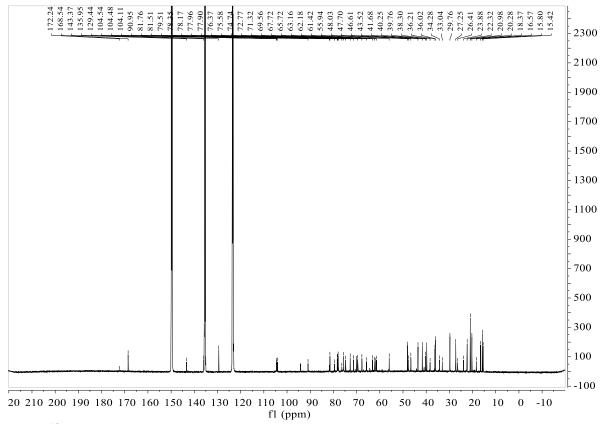
S141. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **28**



S142. HRESIMS spectrum of the new compound 28



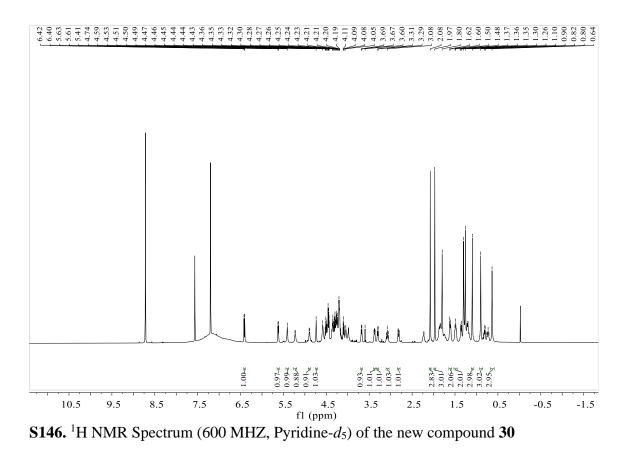
S143. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound 29



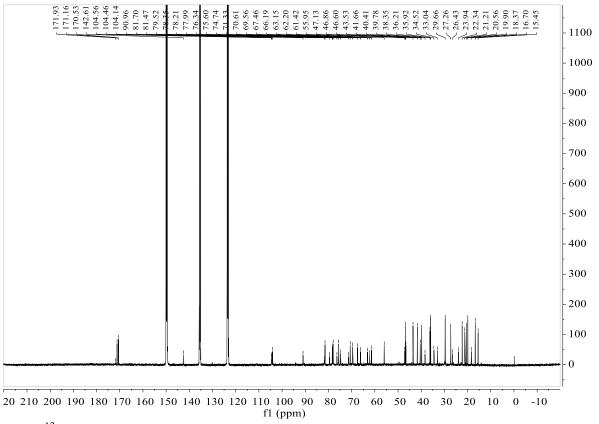
S144. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound 29

		-					1					-							
Mass	Calc. Mass				Formula	i-FIT		Fit Conf %	С	н	N.								
1089.5483	1089.5482	0.1	0.1	11.5	C53 H85 O23	790.8	n/a	n/a	53	85		23							
20181218 zn 4 pos 2467 (9.182) Cm (2436 2469) 1: TOF MS ES+																			
100 _T															10	089.5483			1.89e+00
																1090.5520			
																1091.5551			
115.05	53,137.9885	182.98	⁶¹ 27	9.0941	405.315143				5.3890			.4417 767.4471 82	27.4421	927.4944	1009.0225	1107.0764 1108.0791	1189.4717		1453.0530
50	100 150	200	250	300	350 400	450	500 550	600 65	0	700	750	800	850 9	00 950	1000 1050	1100 1150	1200 1250	1300 1350 140	0 1450 1500

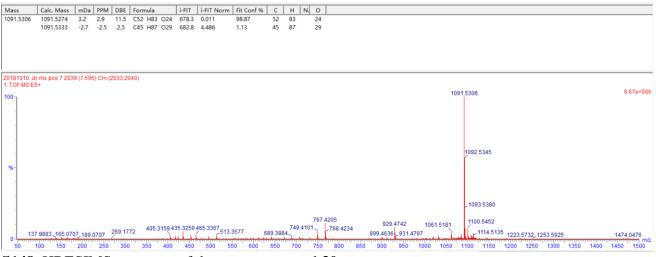
S145. HRESIMS spectrum of the new compound 29



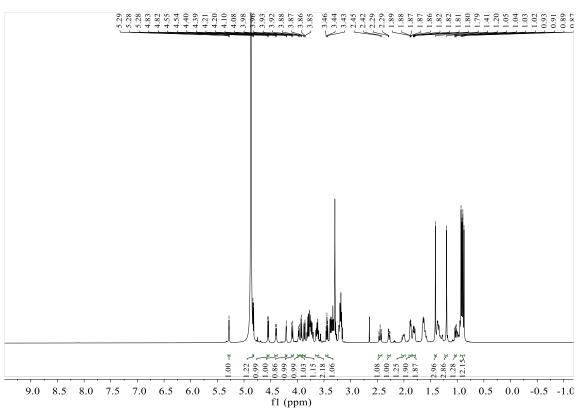
78



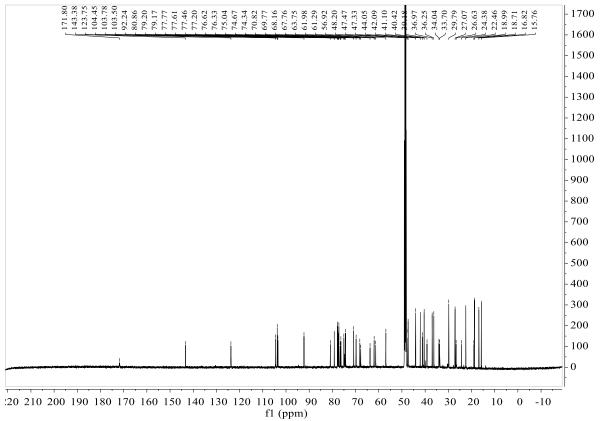
S147. ¹³C NMR Spectrum (150 MHZ, Pyridine- d_5) of the new compound **30**



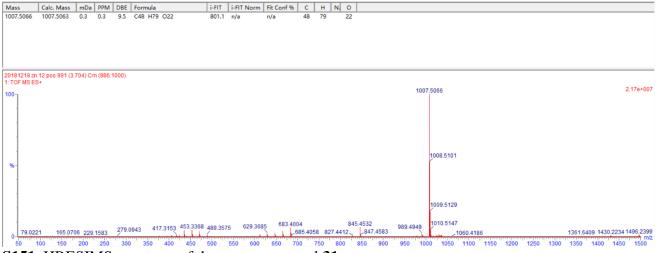
S148. HRESIMS spectrum of the new compound 30



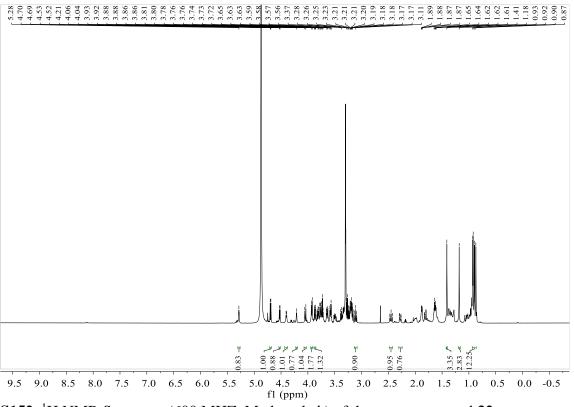
S149. ¹H NMR Spectrum (600 MHZ, Methanol- d_4) of the new compound **31**



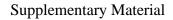
S150. ¹³C NMR Spectrum (150 MHZ, Methanol- d_4) of the new compound **31**

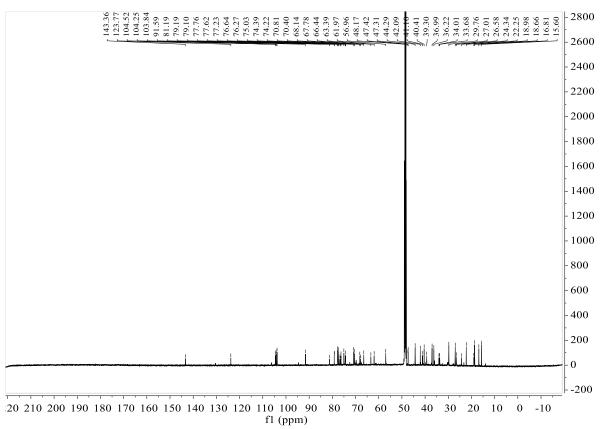


S151. HRESIMS spectrum of the new compound 31

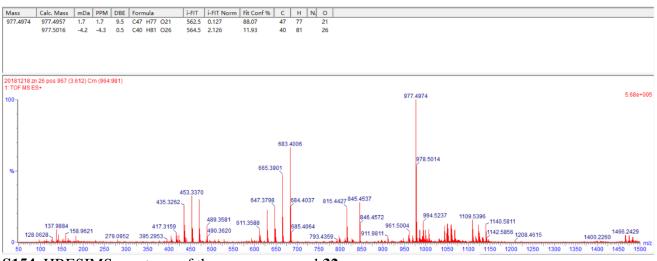


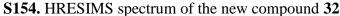
S152. ¹H NMR Spectrum (600 MHZ, Methanol-*d*₄) of the new compound 32

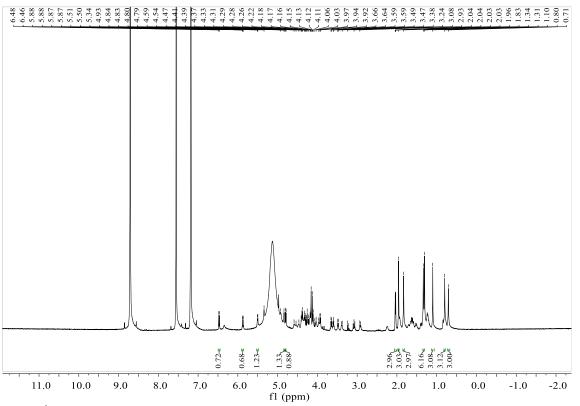




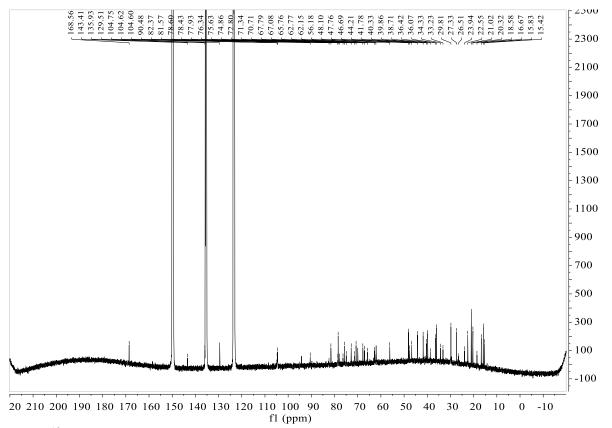
S153. ¹³C NMR Spectrum (150 MHZ, Methanol- d_4) of the new compound **32**







S155. ¹H NMR Spectrum (600 MHZ, Pyridine-*d*₅) of the new compound 33



S156. ¹³C NMR Spectrum (150 MHZ, Pyridine-*d*₅) of the new compound **33**

Mass 1059.5391	Calc. Mass 1059.5376 1059.5435	mDa 1.5 -4.4	PPM 1.4 -4.2	11.5	Formula C52 H83 C45 H87		.0 0.007	Fit Conf % 99.28 0.72	C 52 45	H 83 87		2 27 27				
20181218 zn 1: TOF MS ES 100	5 pos 2476 (9. ;+	221) Cr	n (2466)	2486)										105	9.5391	2.71e+006
											76	5.4429			1060.5424 1076.5654	
%- - -												766.4459	927	.4957	1077.5692	
96.9618	3 137.9886 000 150	(279		374.2199	435.326 .3156 400 45	471.3475 489.3581	629.3689 611.3585	650	01 66.393 700		767.4484 827.44		994.0191	1081.5204 1082.5234 1095.5117 1158.4585 50 1100 1150 1200 1250 1300 1350	1431.3927 1400 1450 1500

50 the two sectors of the new compound 33 S157. HRESIMS spectrum of the new compound 33 S157.