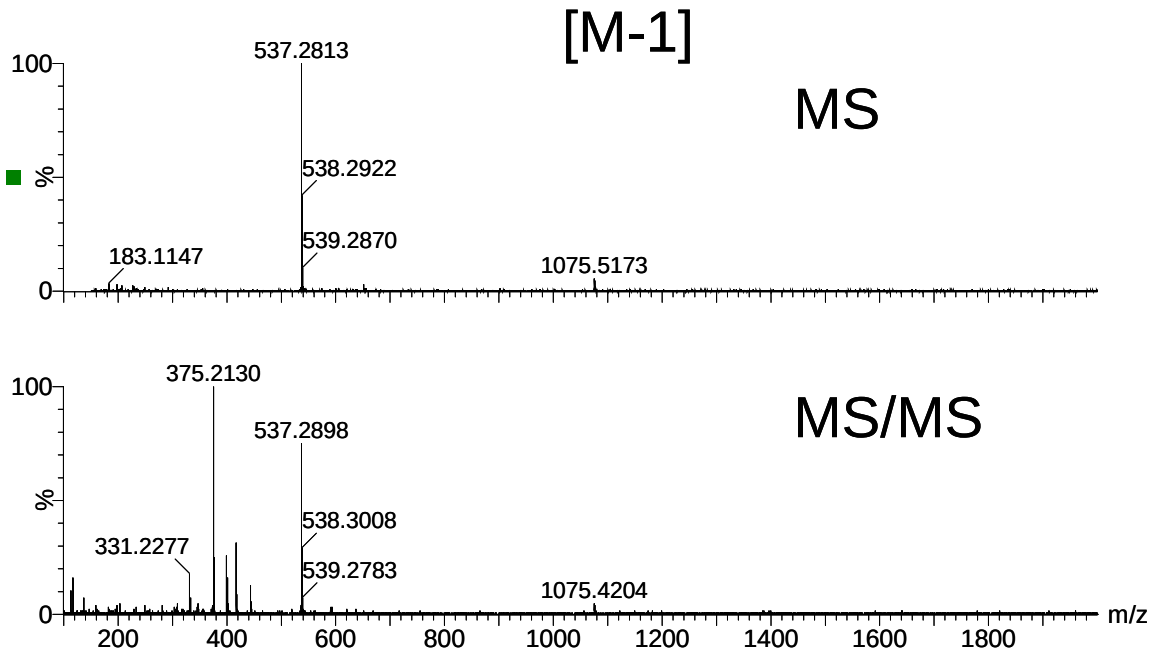
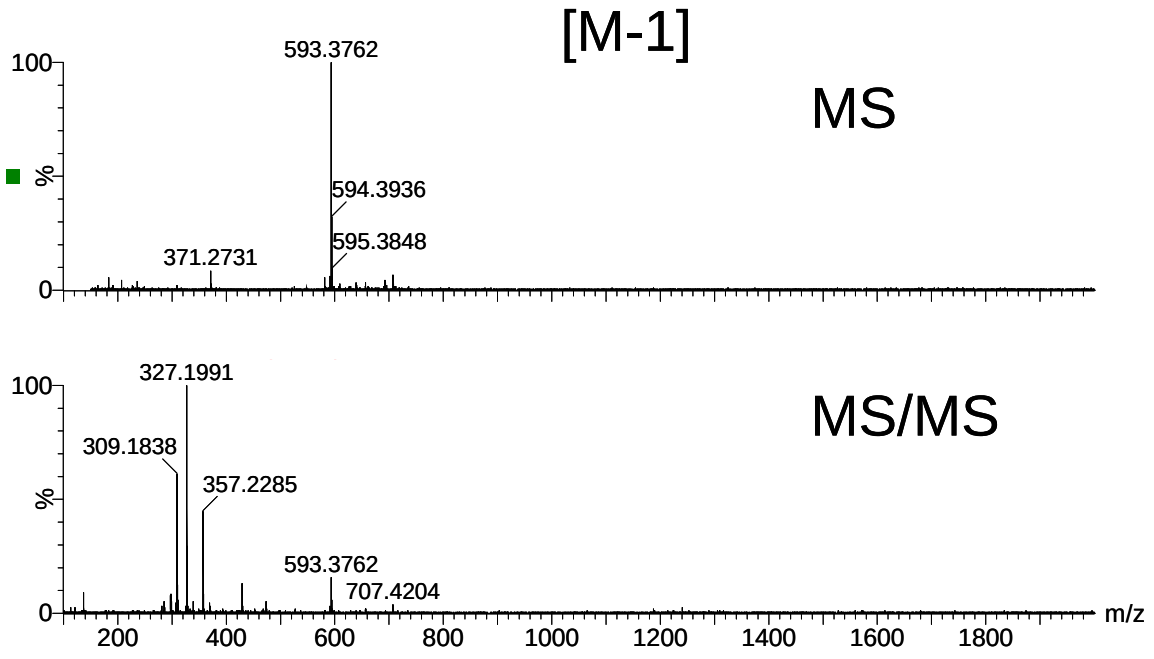
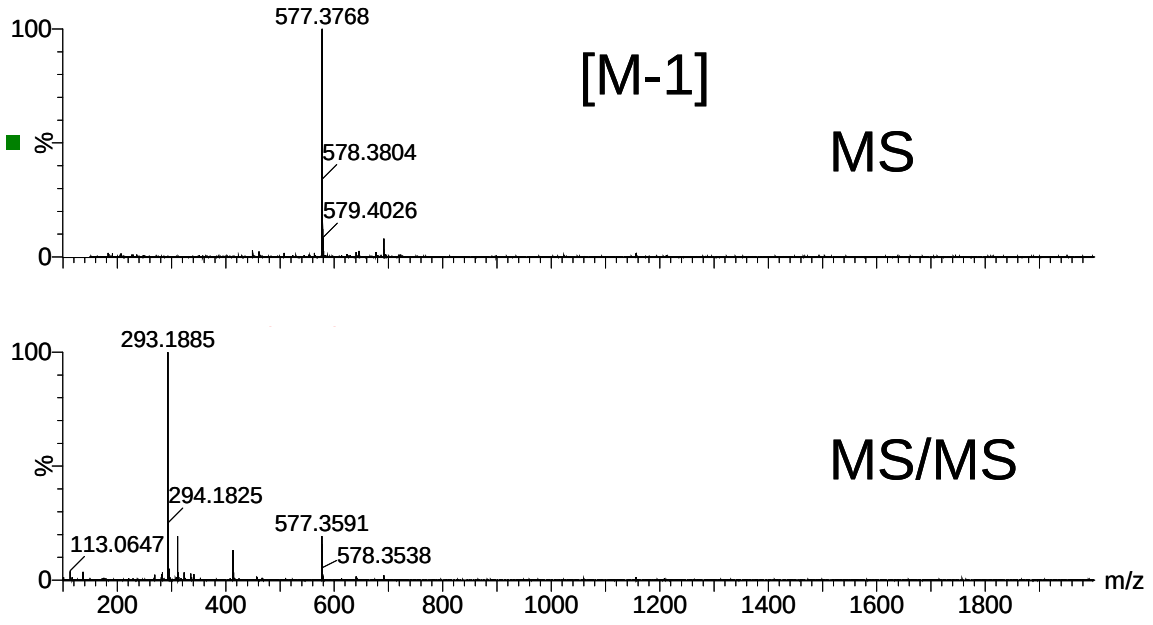
Espectros



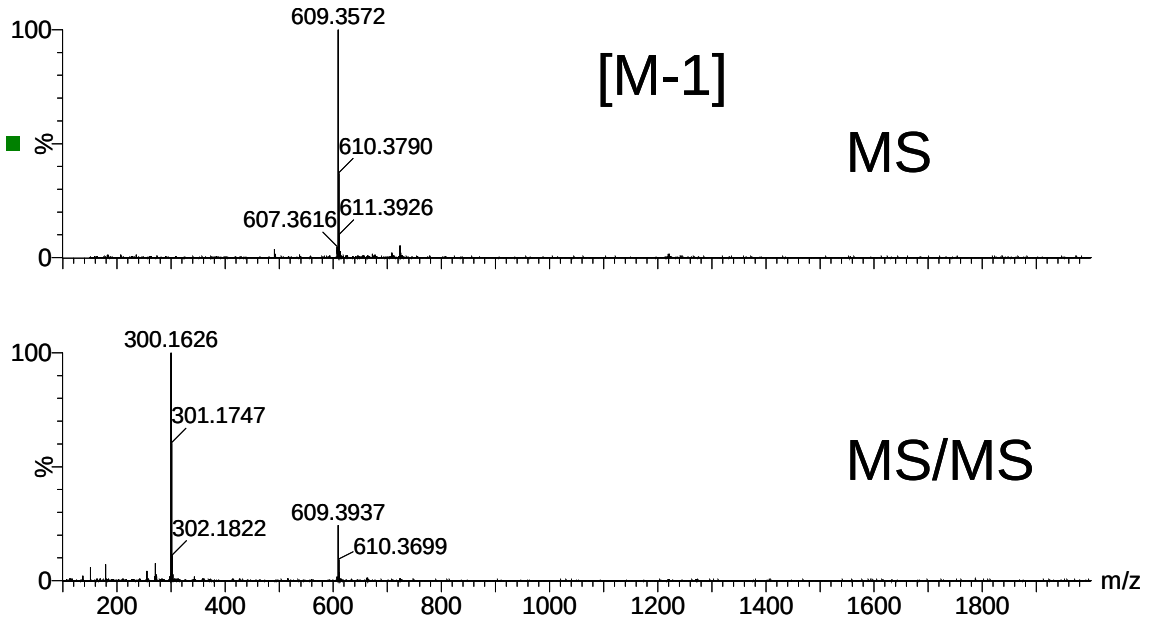
Espectro 1. Espectro de masas de alta resolución de OpB-1, (agathisflavona).



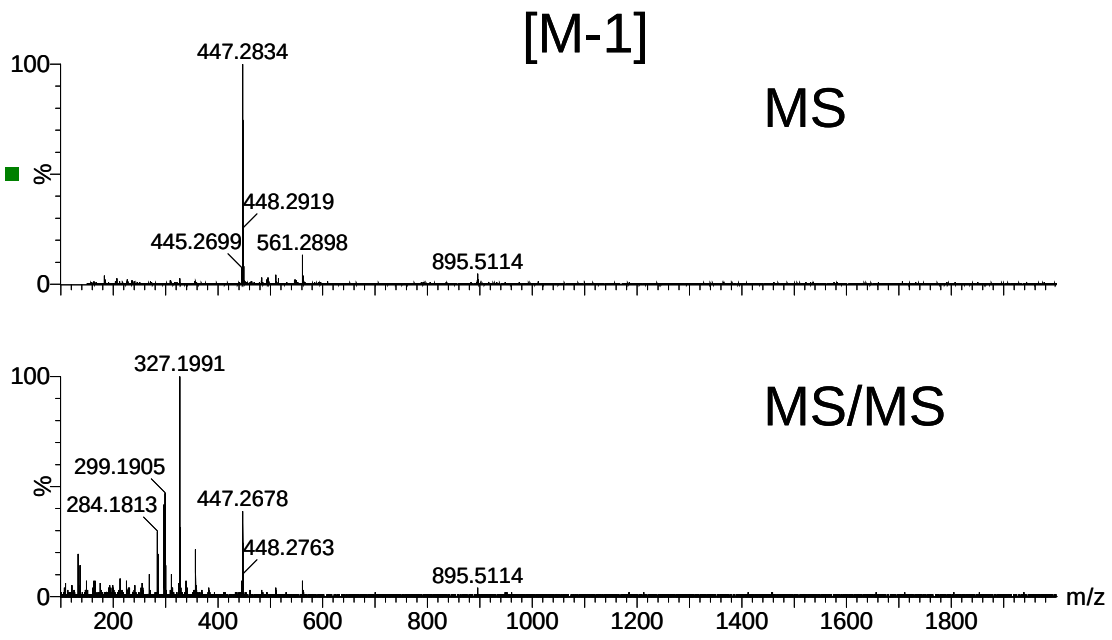
Espectro 2. Espectro de masas de alta resolución de OpC-2.



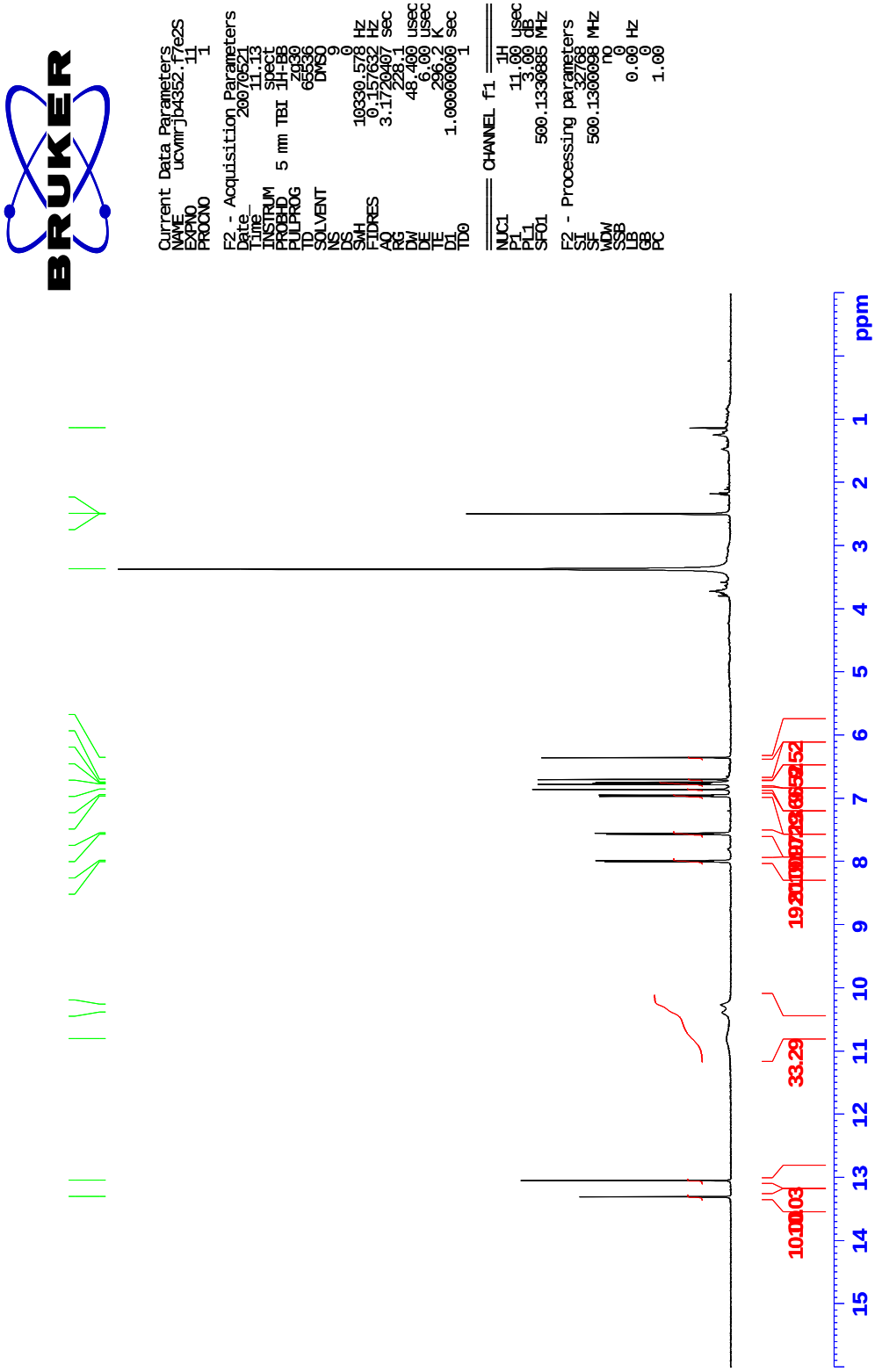
Espectro 3. Espectro de masas de alta resolución de OpC-3.



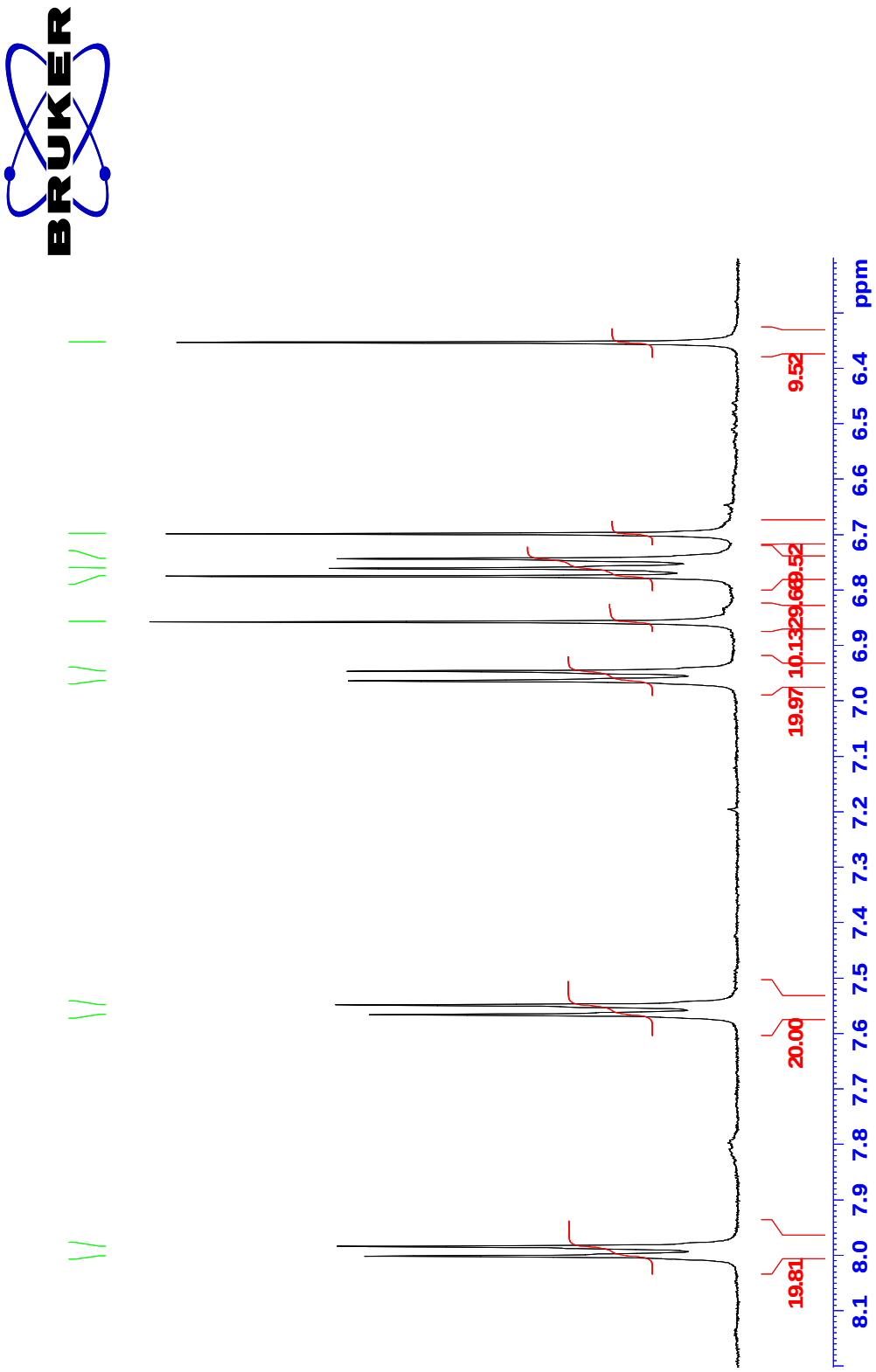
Espectro 4. Espectro de masas de alta resolución de OpC-4 (rutina).



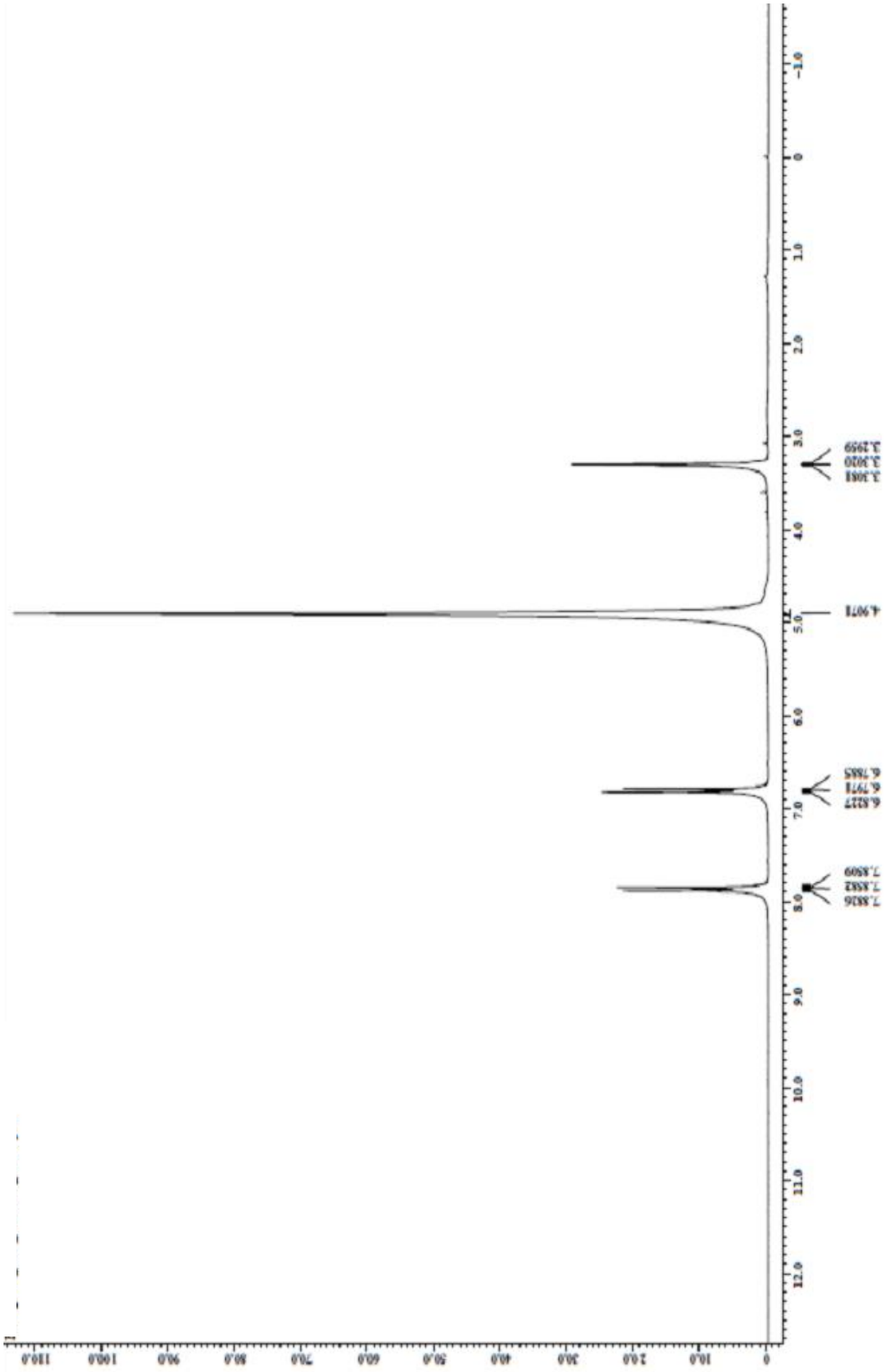
Espectro 5. Espectro de masas de alta resolución de OpC-5.



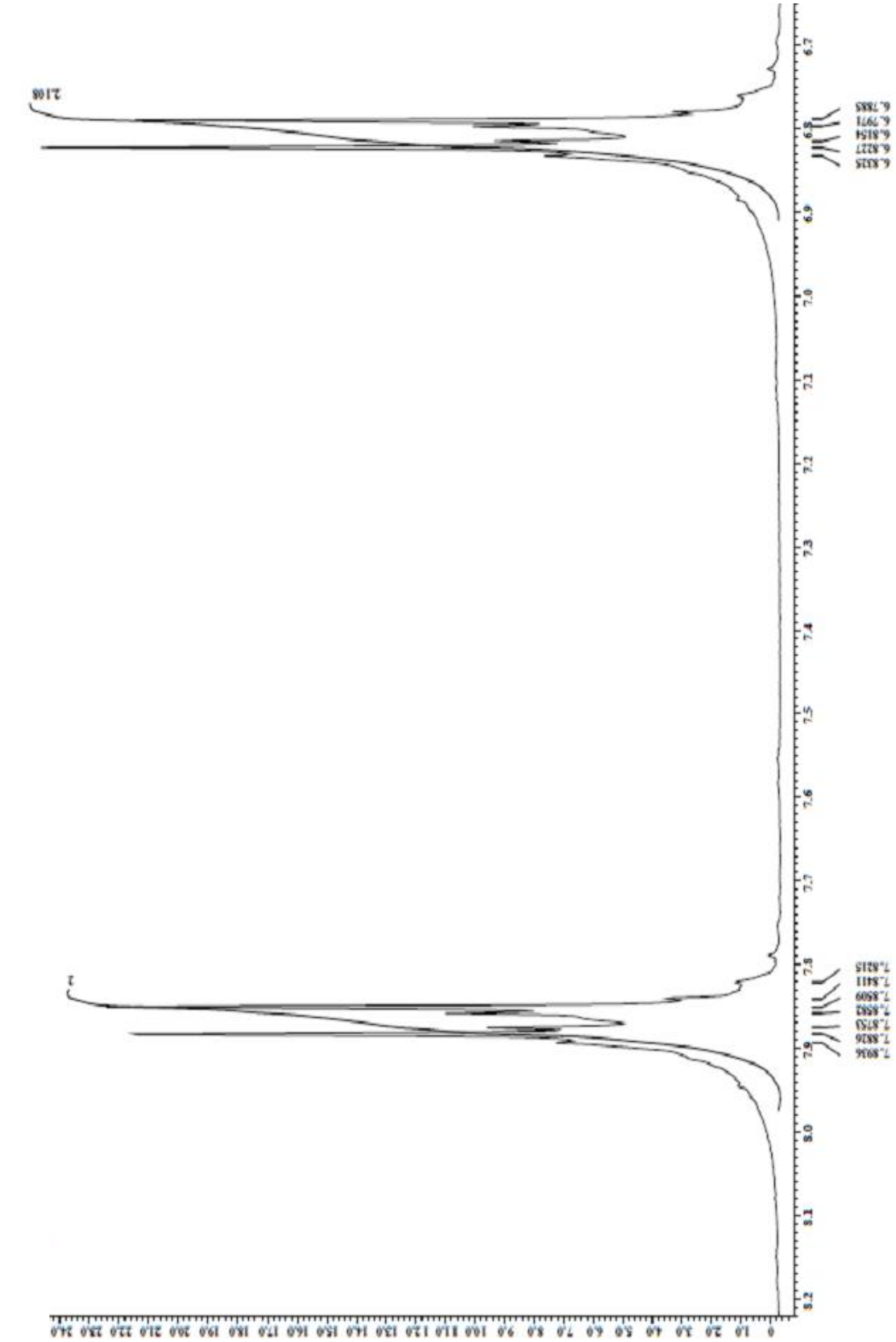
Espectro 6. RMN-^{1}H del compuesto OpD-5 = OpB-1 (agathisflavona).



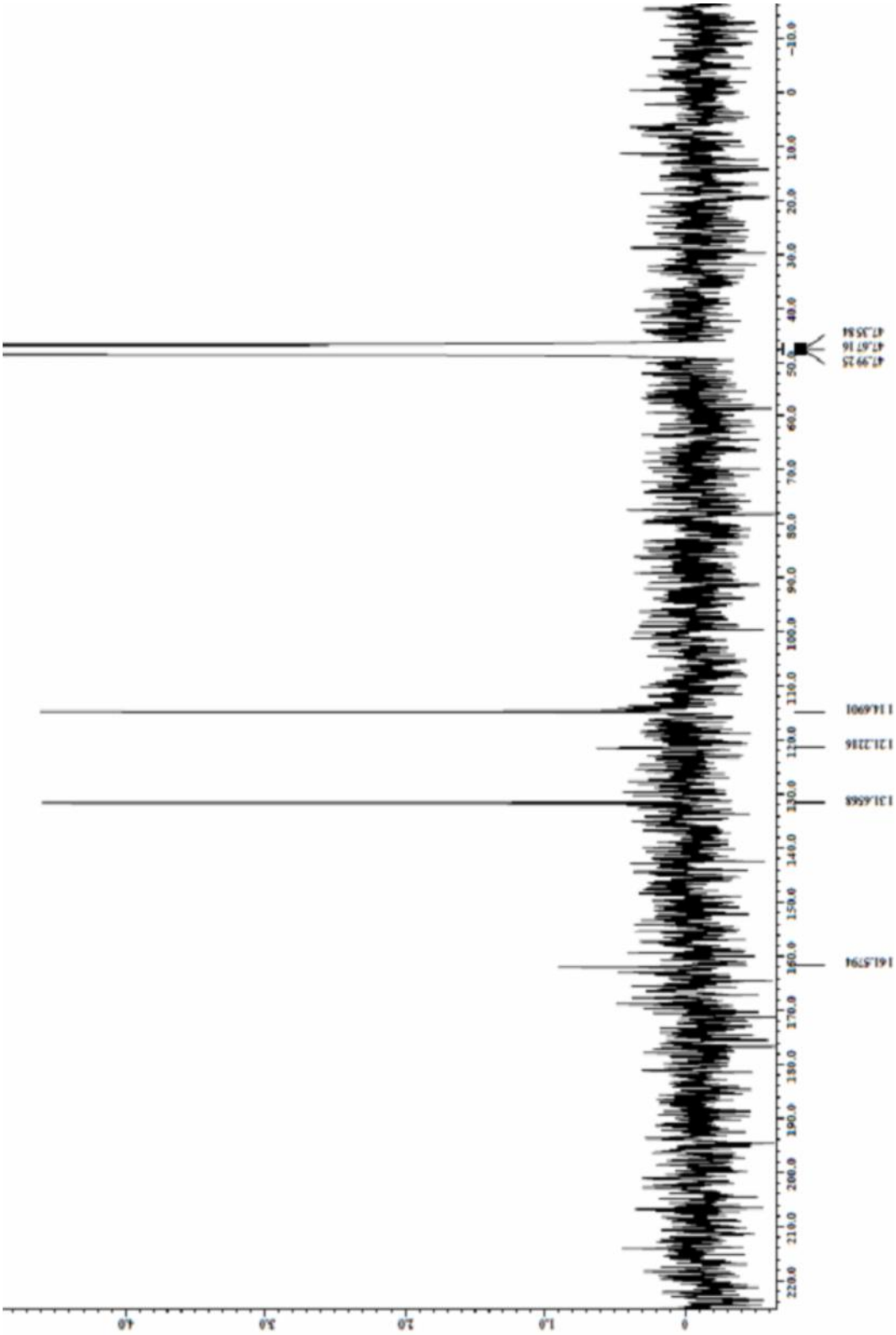
Espectro 7. Ampliación entre 6,3-8,1 ppm del RMN-^{1}H del compuesto OpD-5 = OpB-1 (agathisflavona).



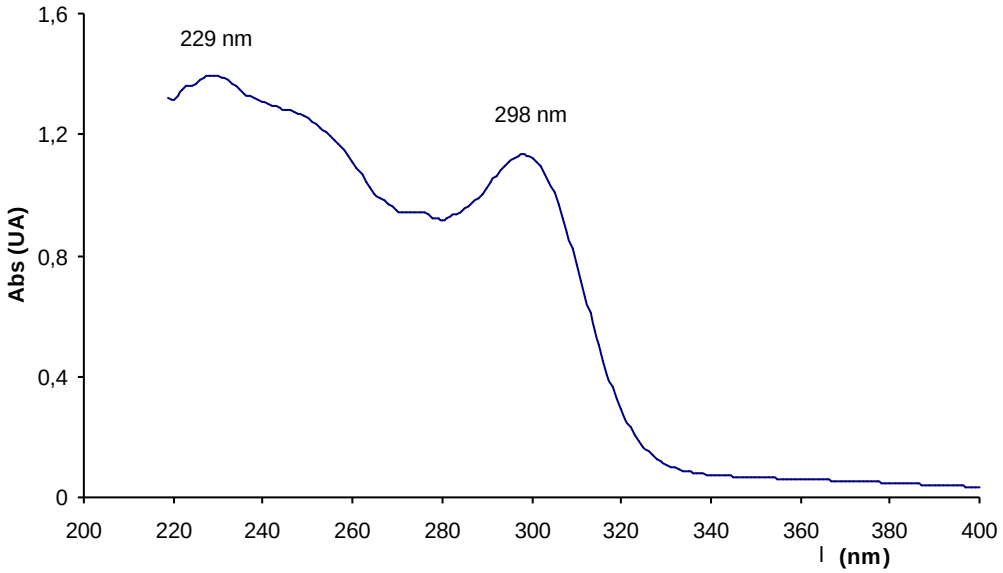
Espectro 8. RMN-^{1}H del compuesto OpD-10 (ácido 4-hidroxibenzóico).



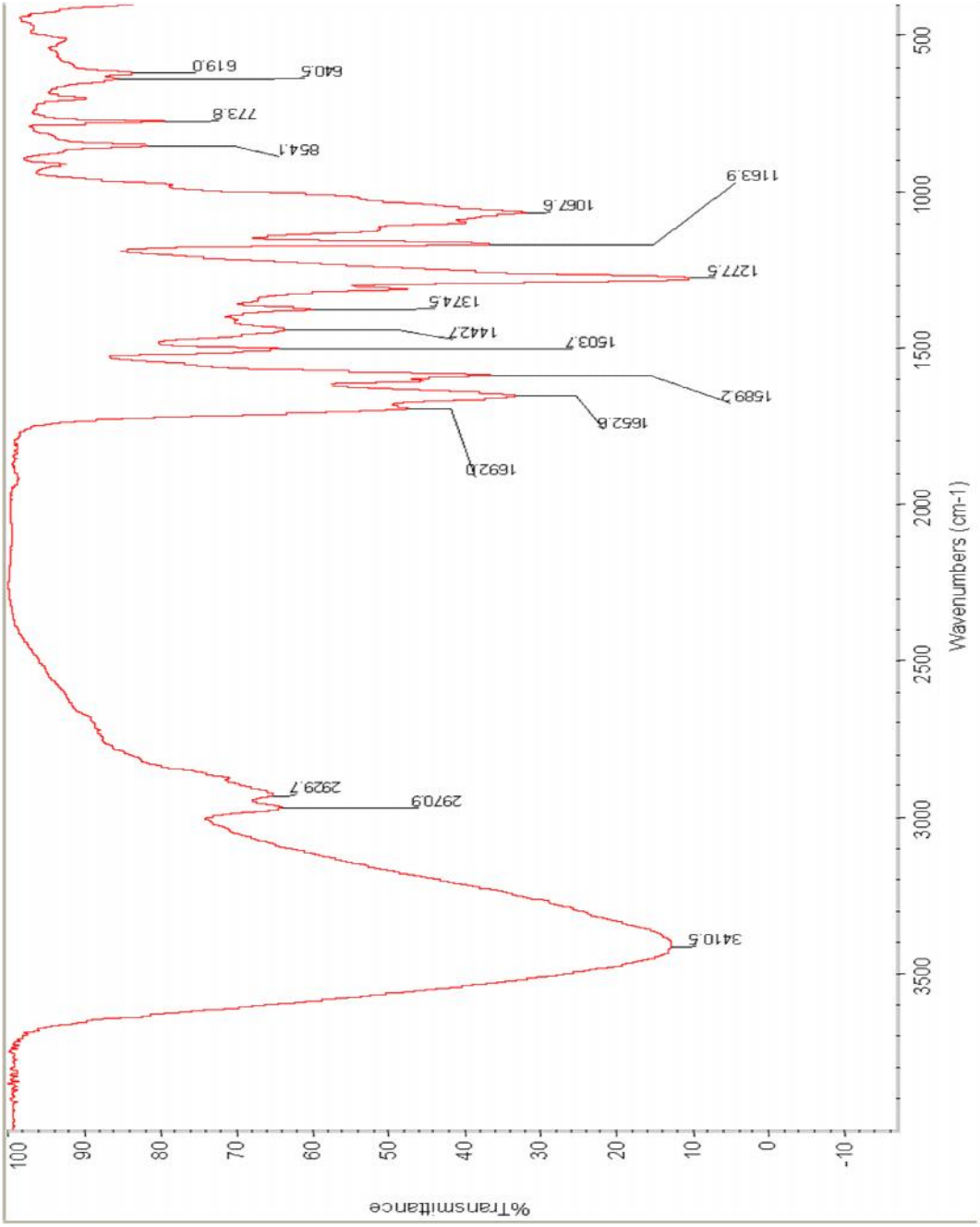
Espectro 9. Ampliación entre 6,7-8,2 ppm del RMN-^{1}H del compuesto OpD-10 (ácido 4-hidroxibenzóico).



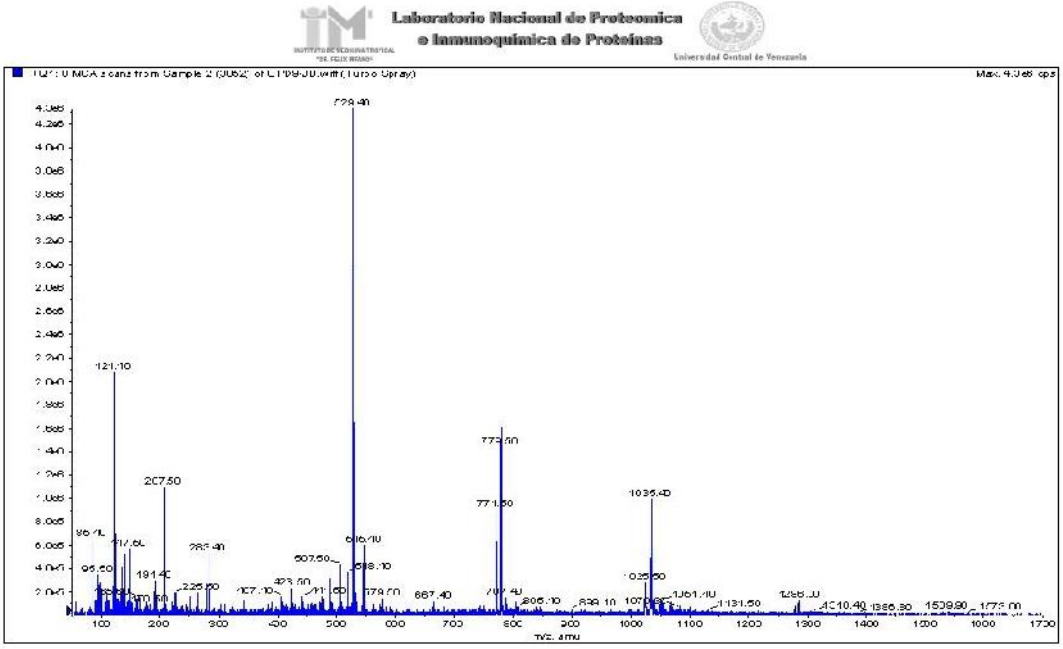
Espectro 10. RMN-^{13}C del compuesto OpD-10 (ácido 4-hidroxibenzóico).



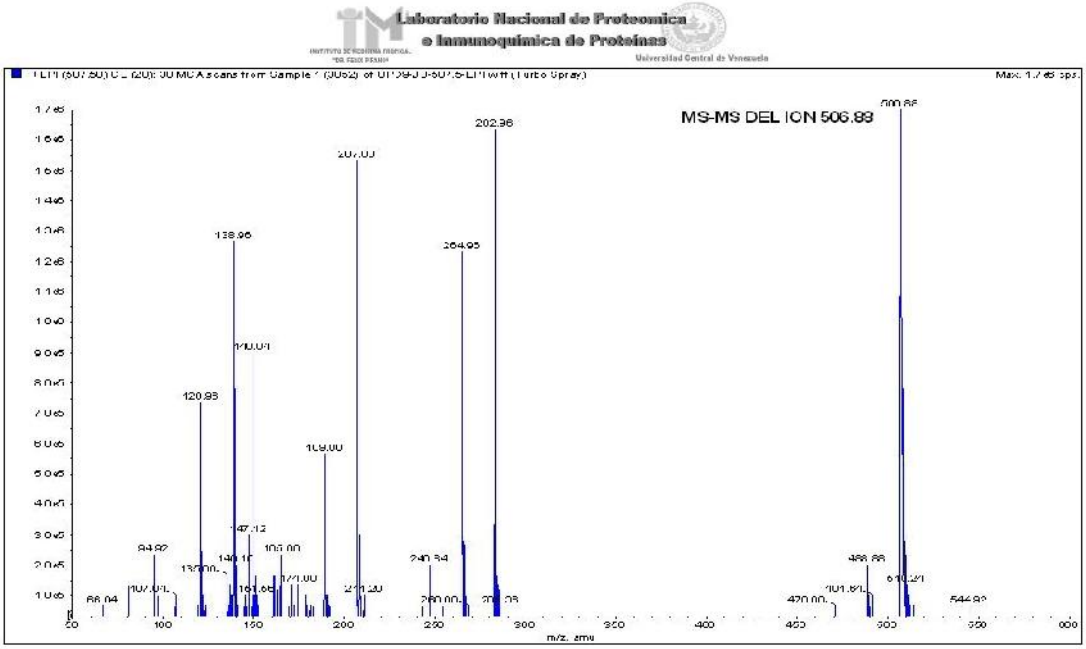
Espectro 11. UV-Vis del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



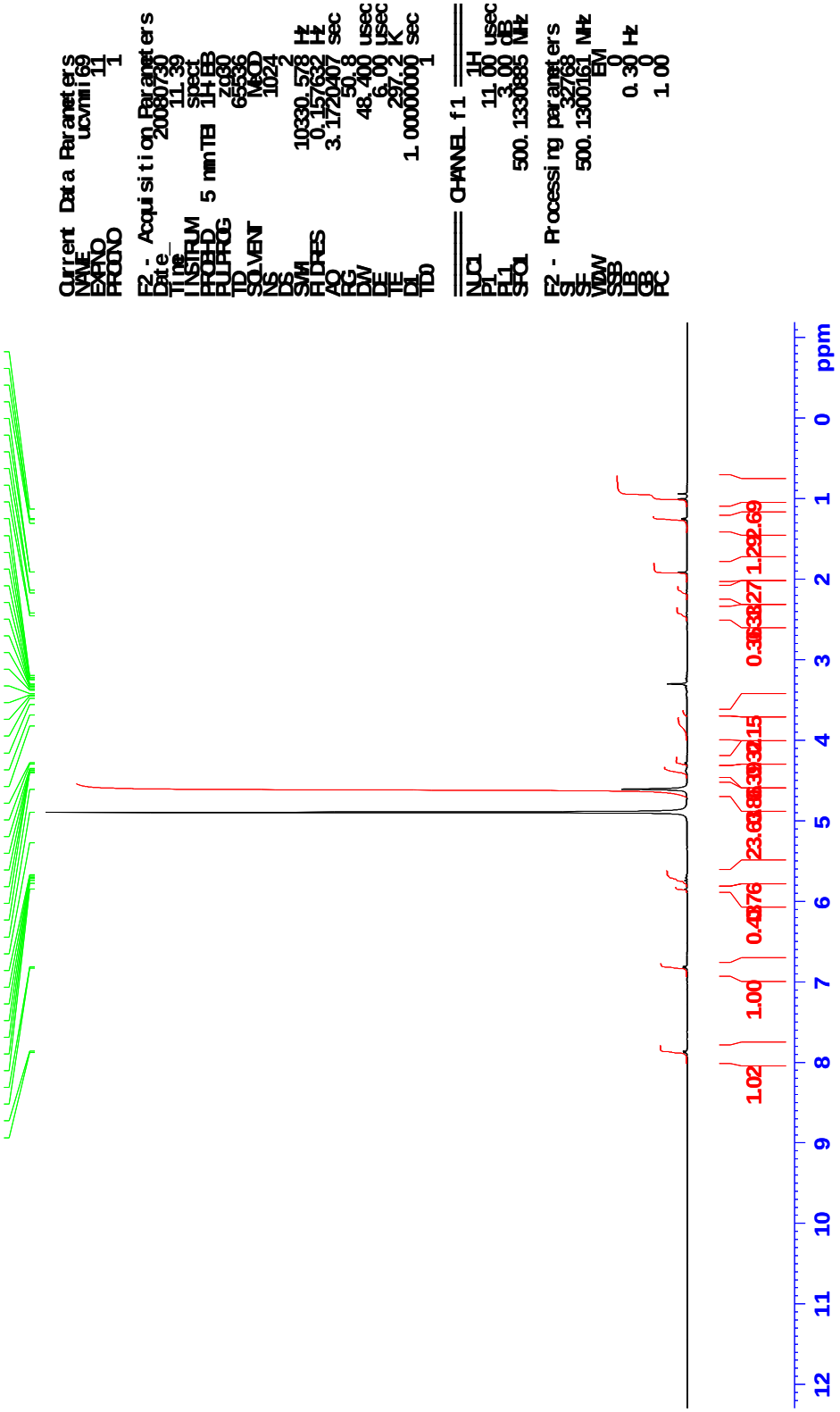
Espectro 12. IR del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



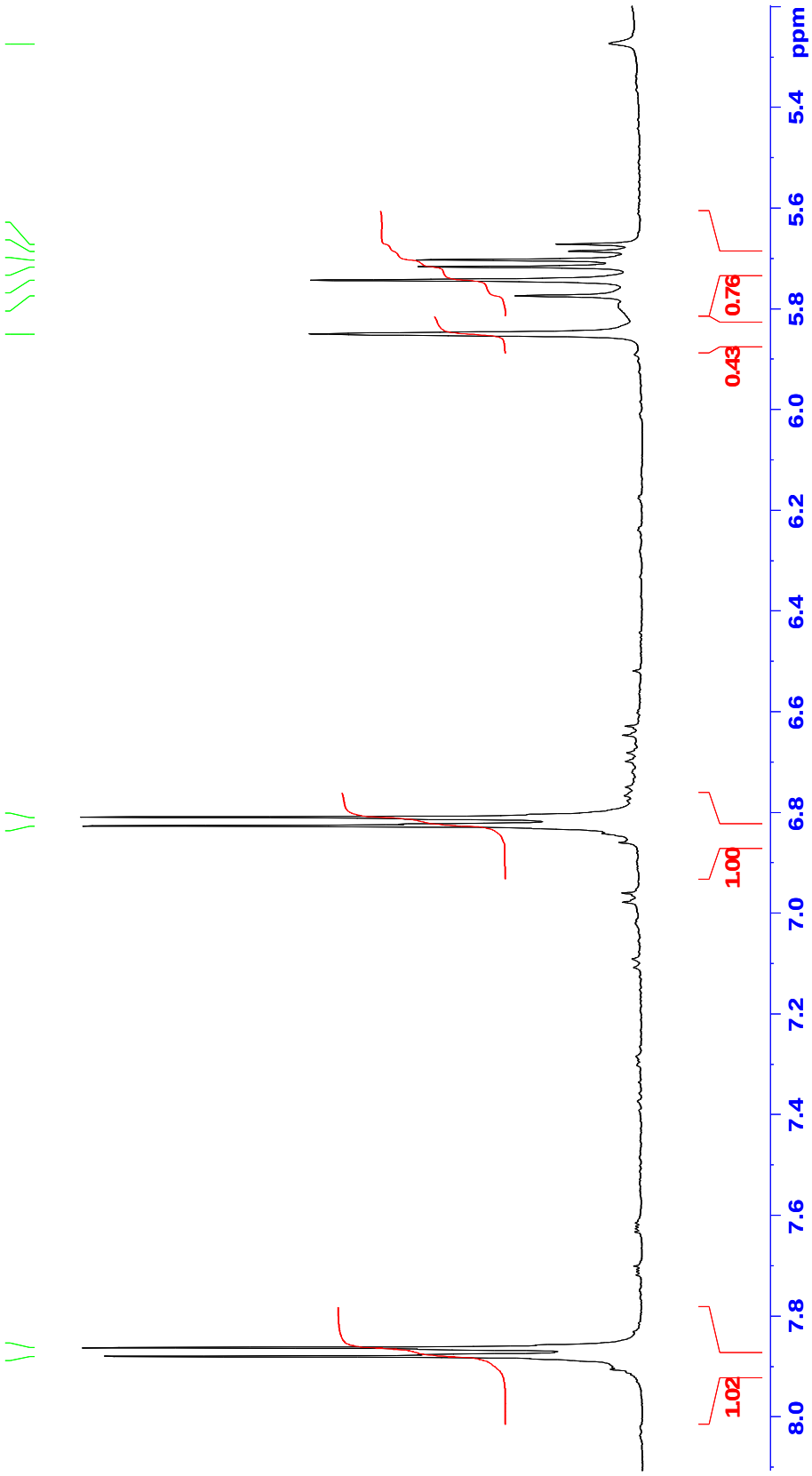
Espectro 13. EM del compuesto OpD-9 [(6*R*,9*S*)-6'-(4''-hidroxibenzoil)-roseósido].



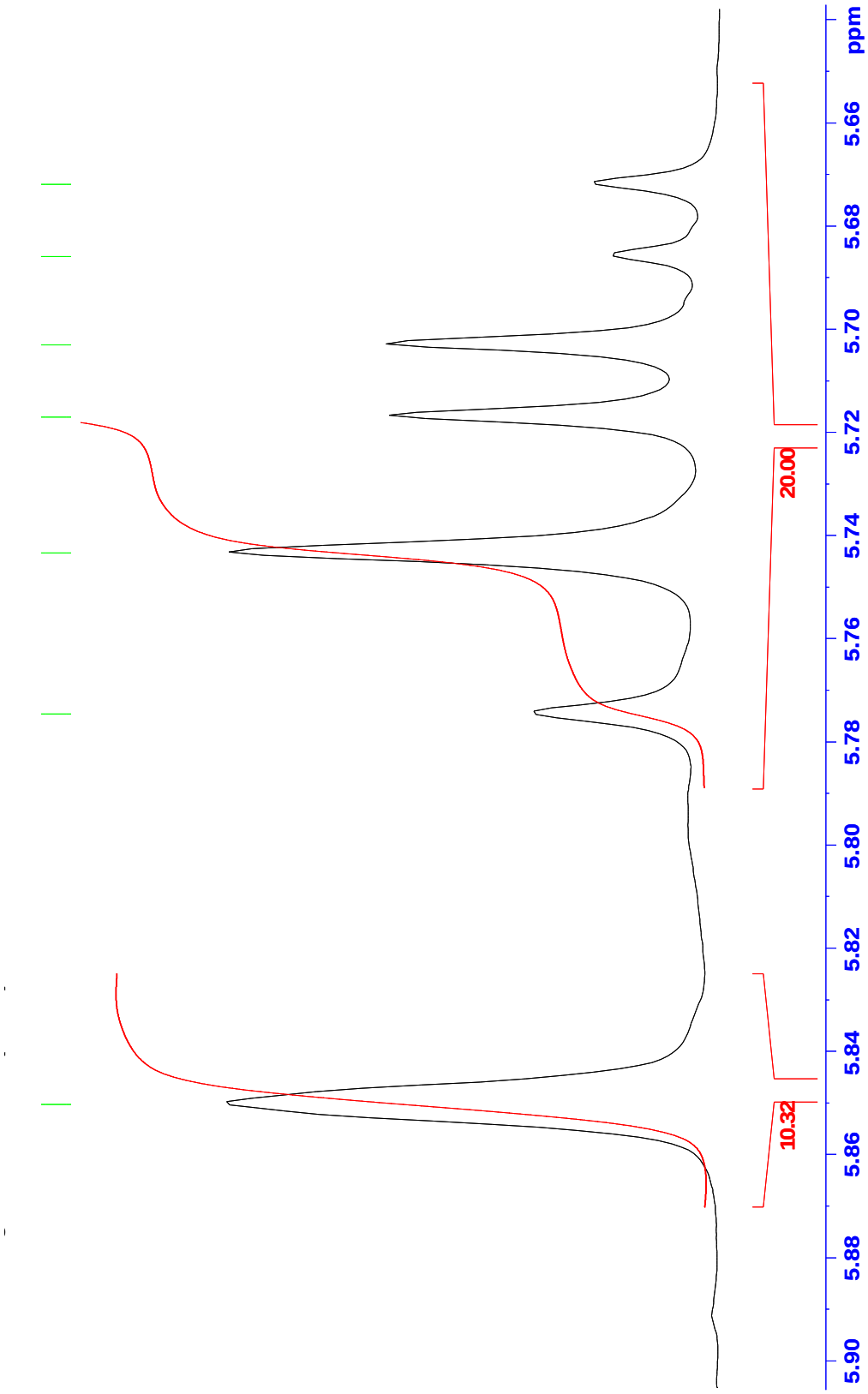
Espectro 14. EM-EM del ión 506,88 uma del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



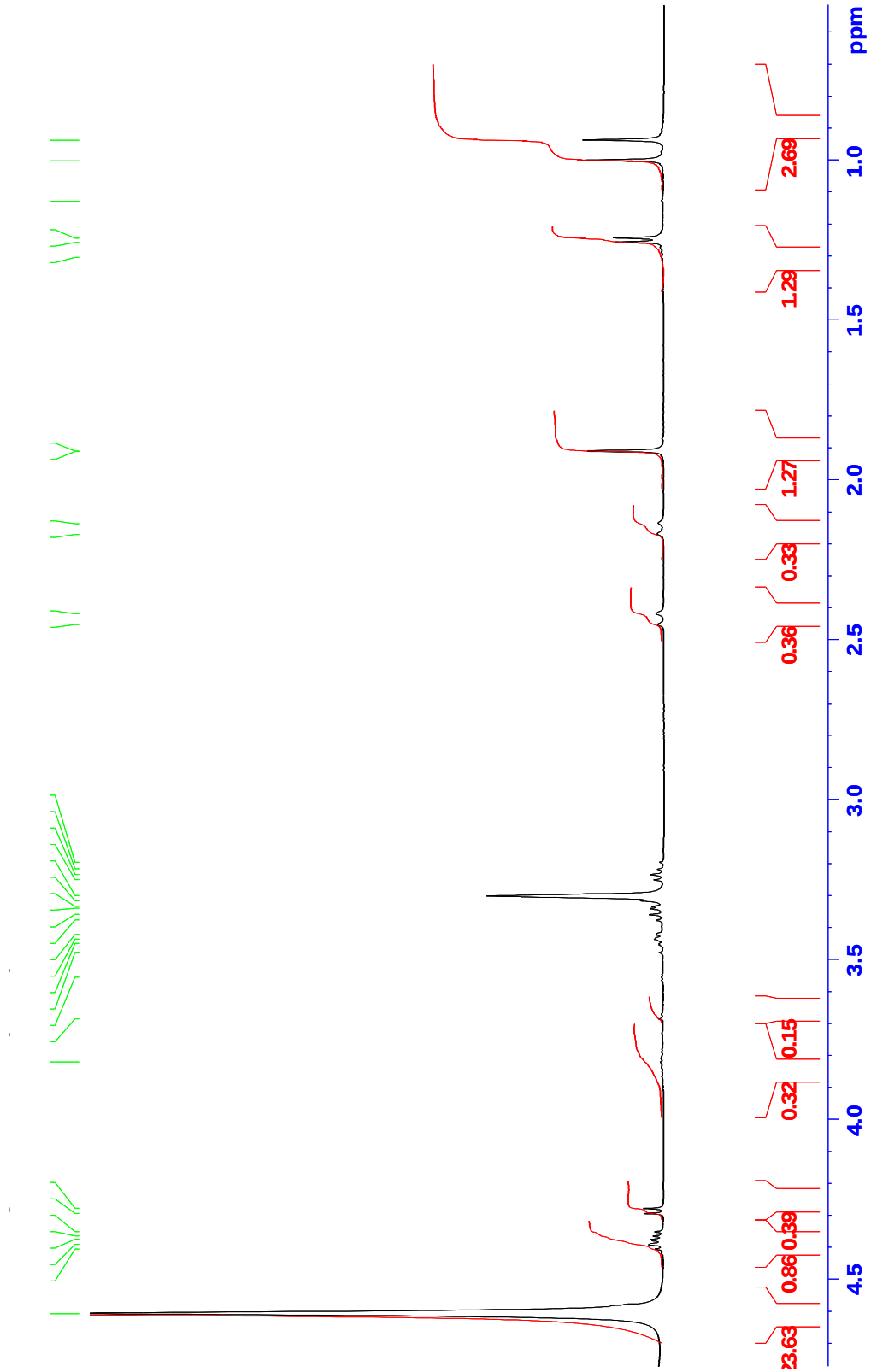
Espectro 15. RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



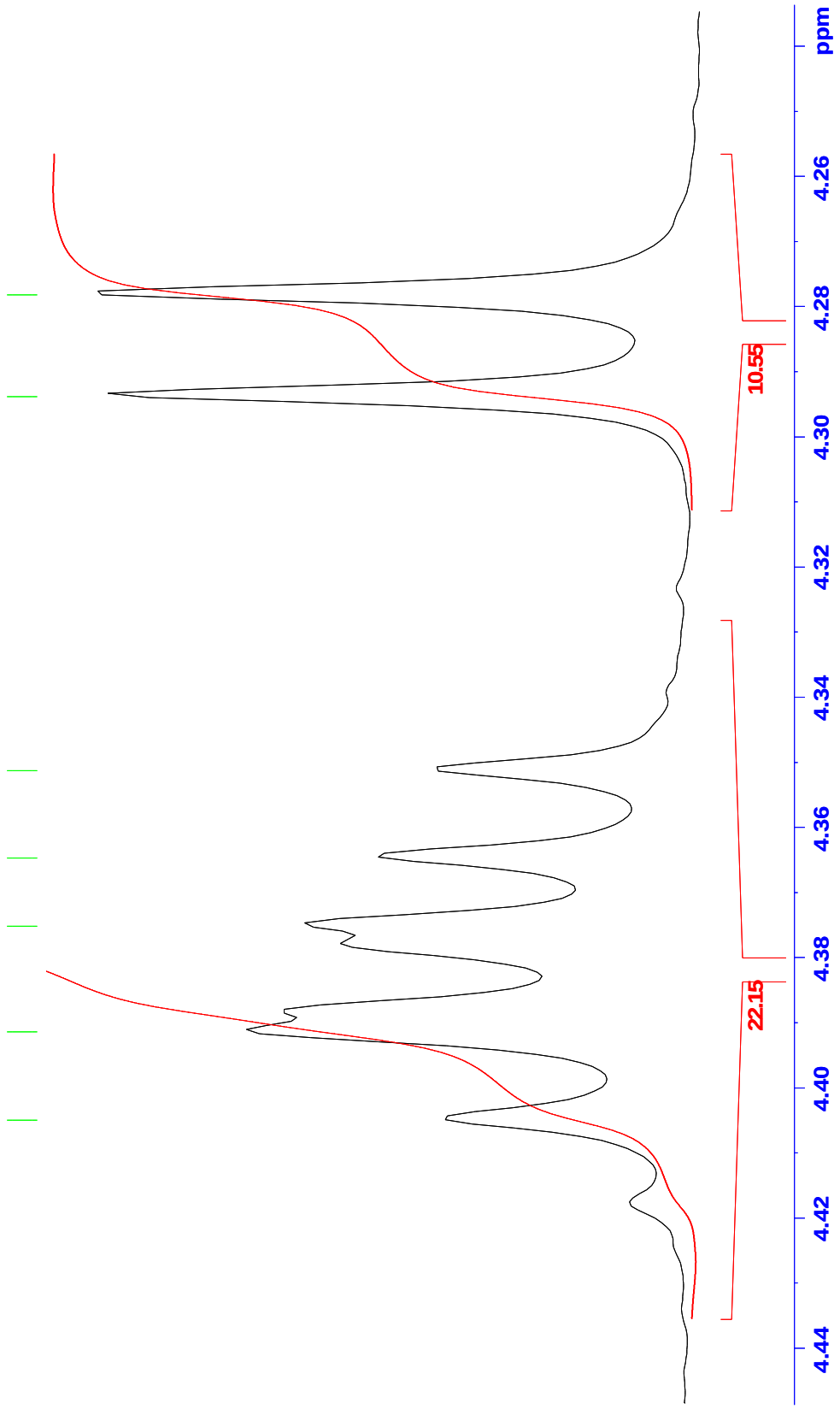
Espectro 16. Ampliación entre 5,2-8,0 ppm del RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



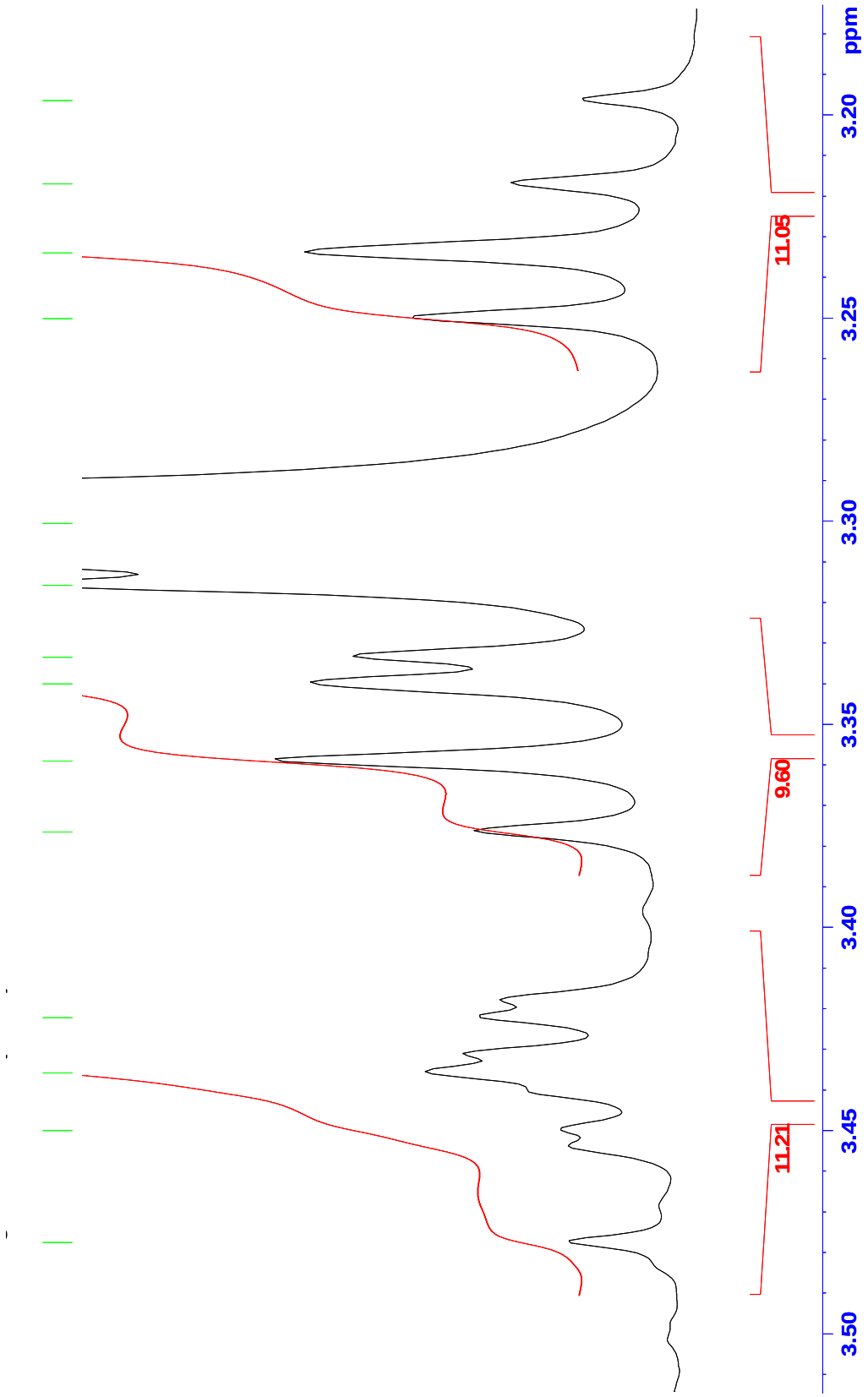
Espectro 17. Ampliación entre 5,6-5,9 ppm del RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



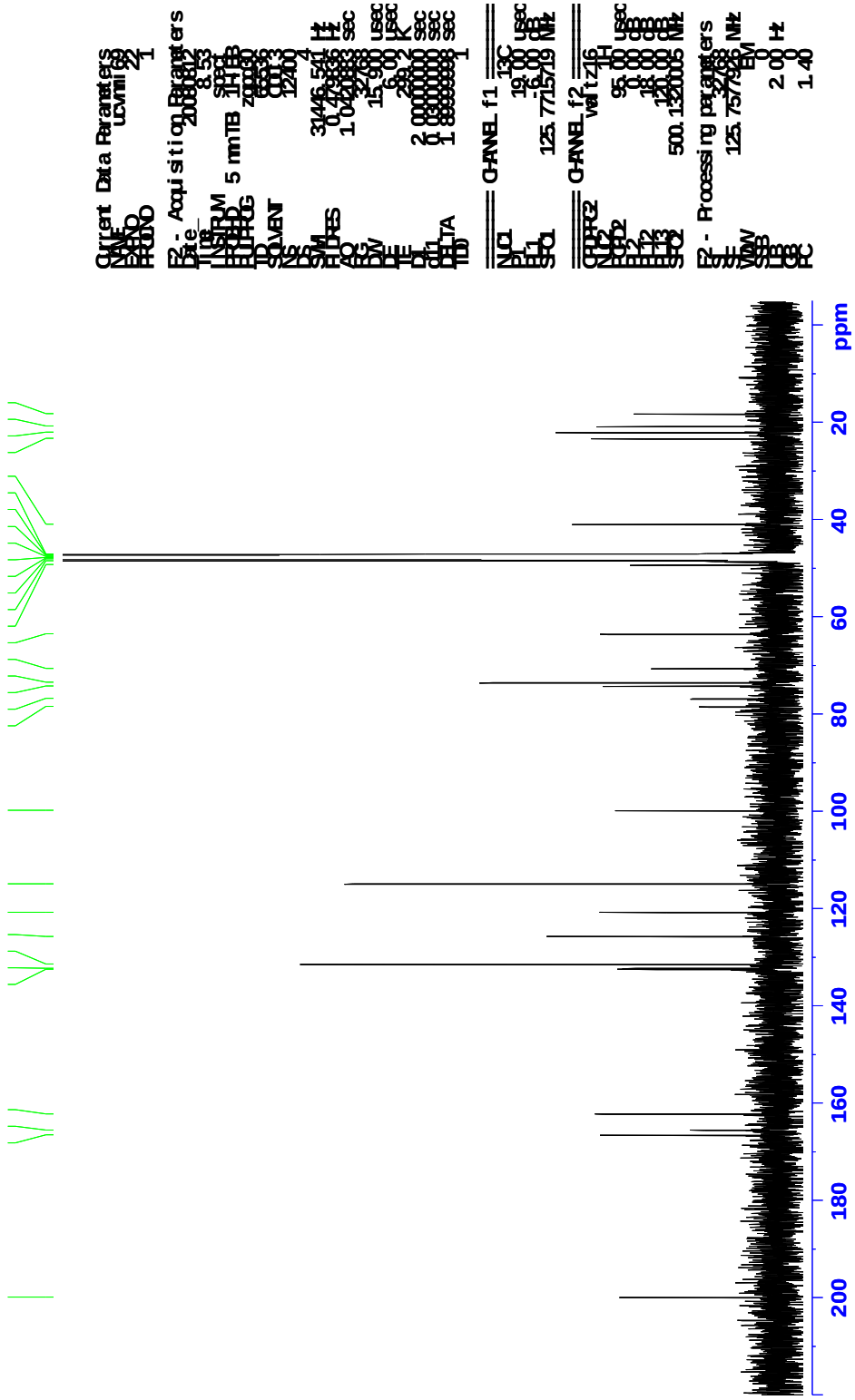
Espectro 18. Ampliación entre 0,5-4,7 ppm del RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



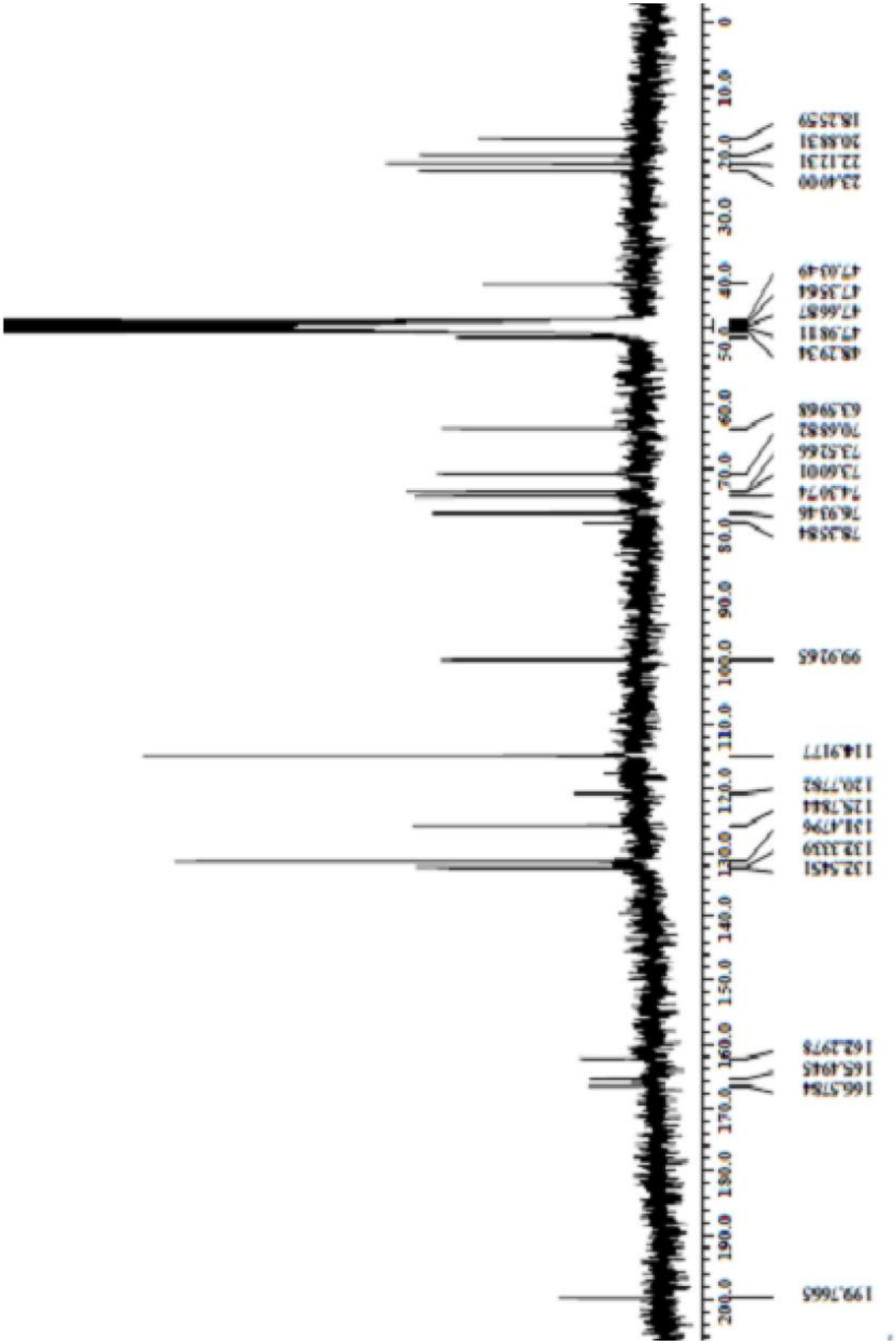
Espectro 19. Ampliación entre 4,2-4,4 ppm del RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



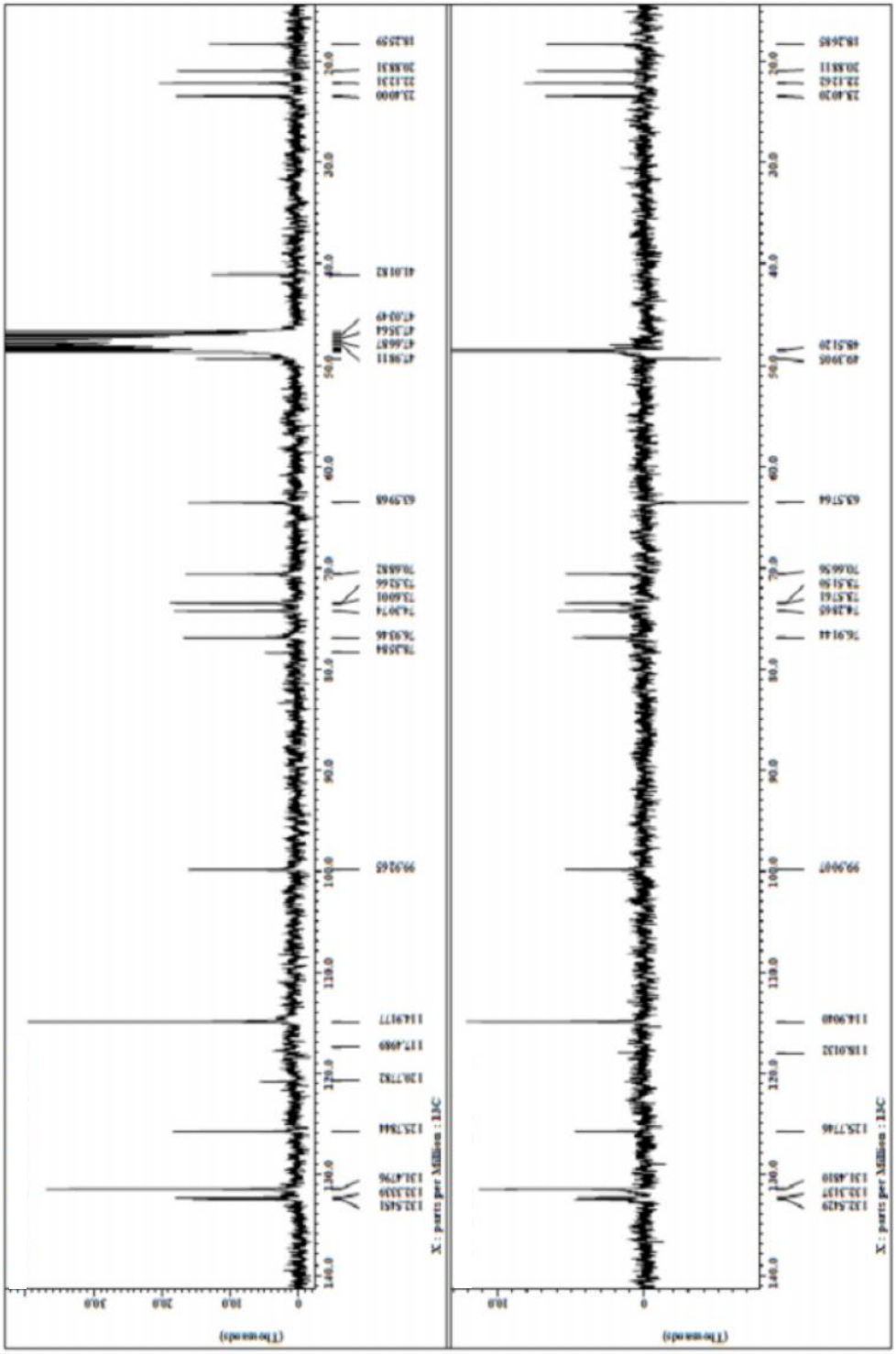
Espectro 20. Ampliación entre 3,2-3,5 ppm del RMN-^{1}H del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



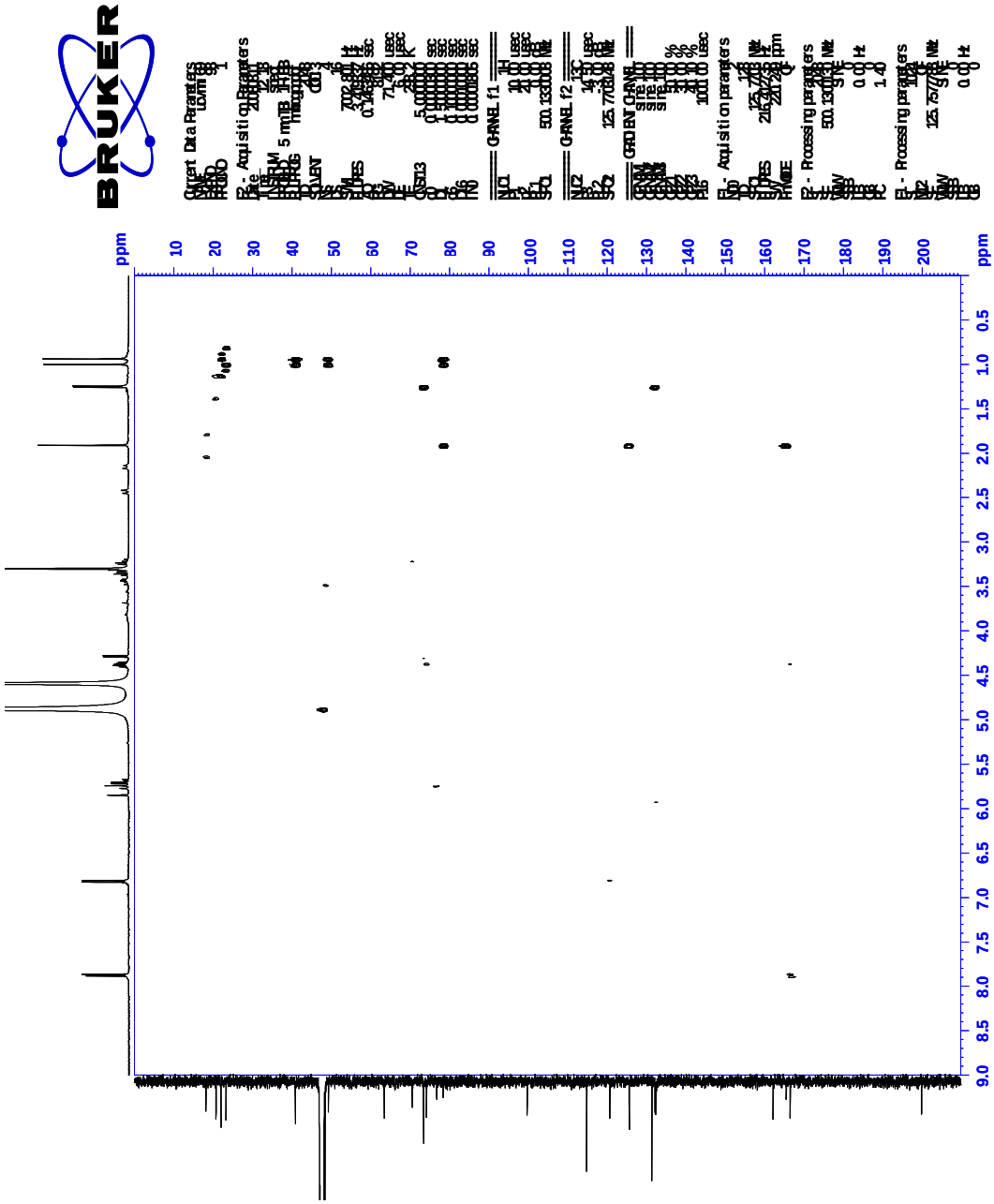
Espectro 21. RMN-^{13}C del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido]. Bruker de 125 MHz.



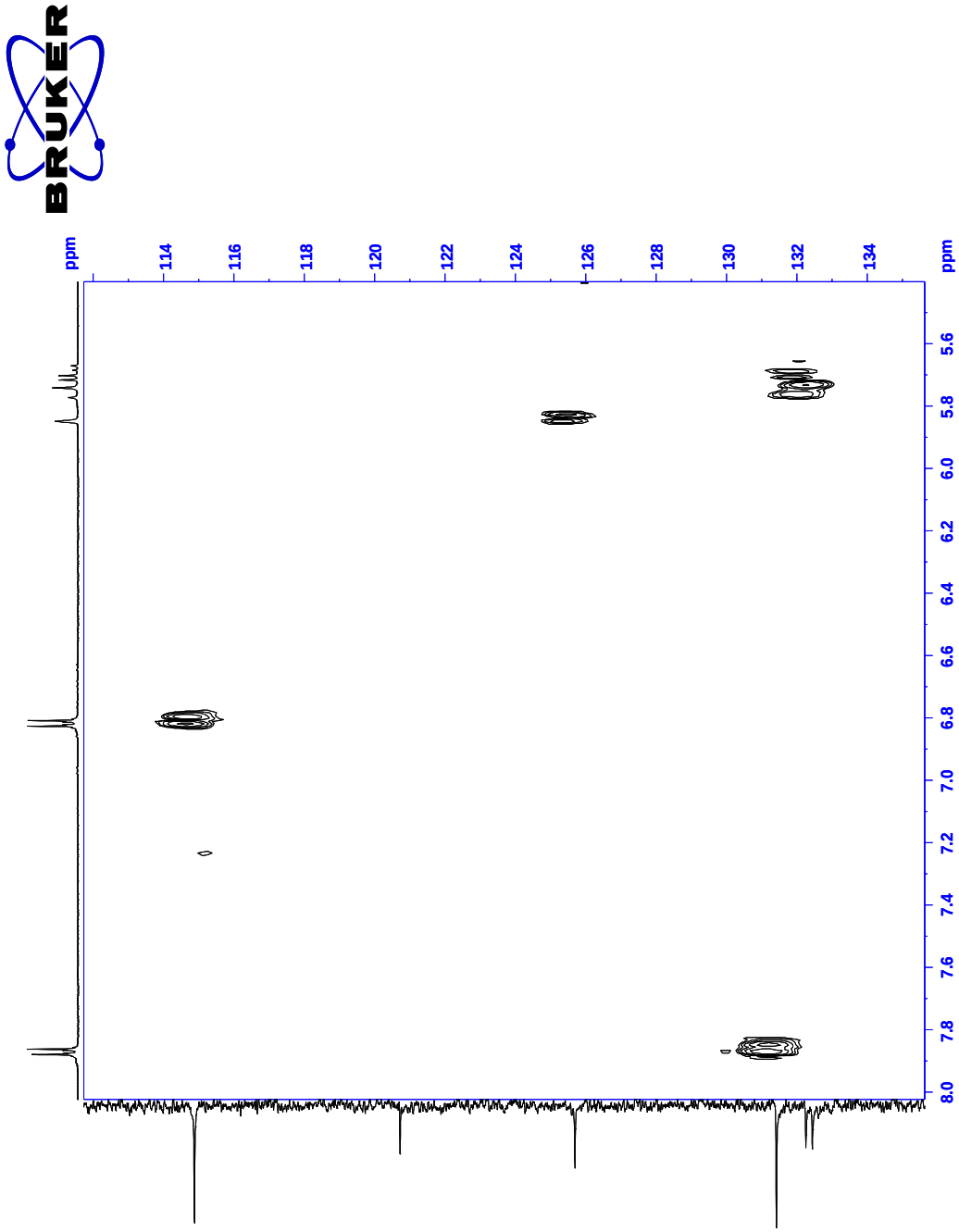
Espectro 22. RMN-^{13}C del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido]. JEOL de 67,5 MHz.



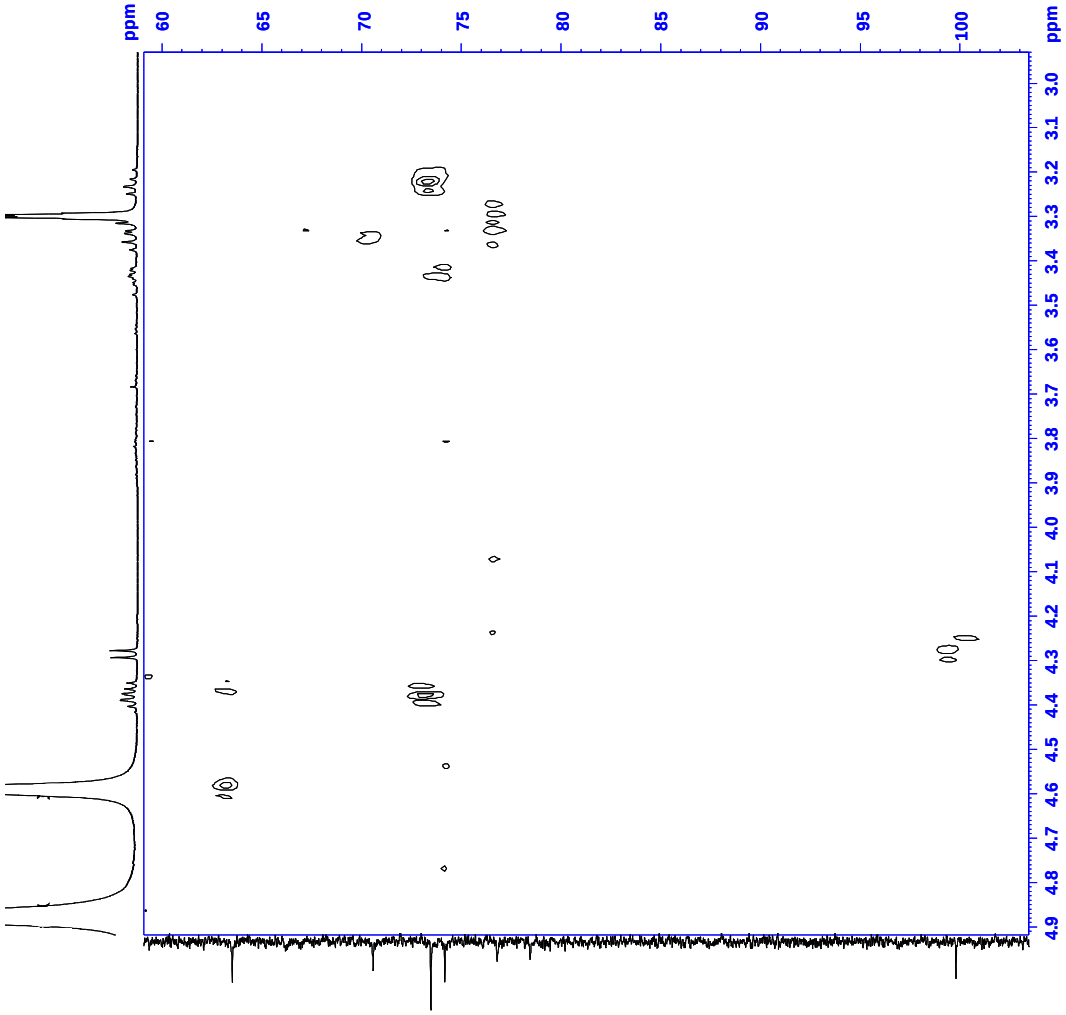
Espectro 23. DEPT-135° del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



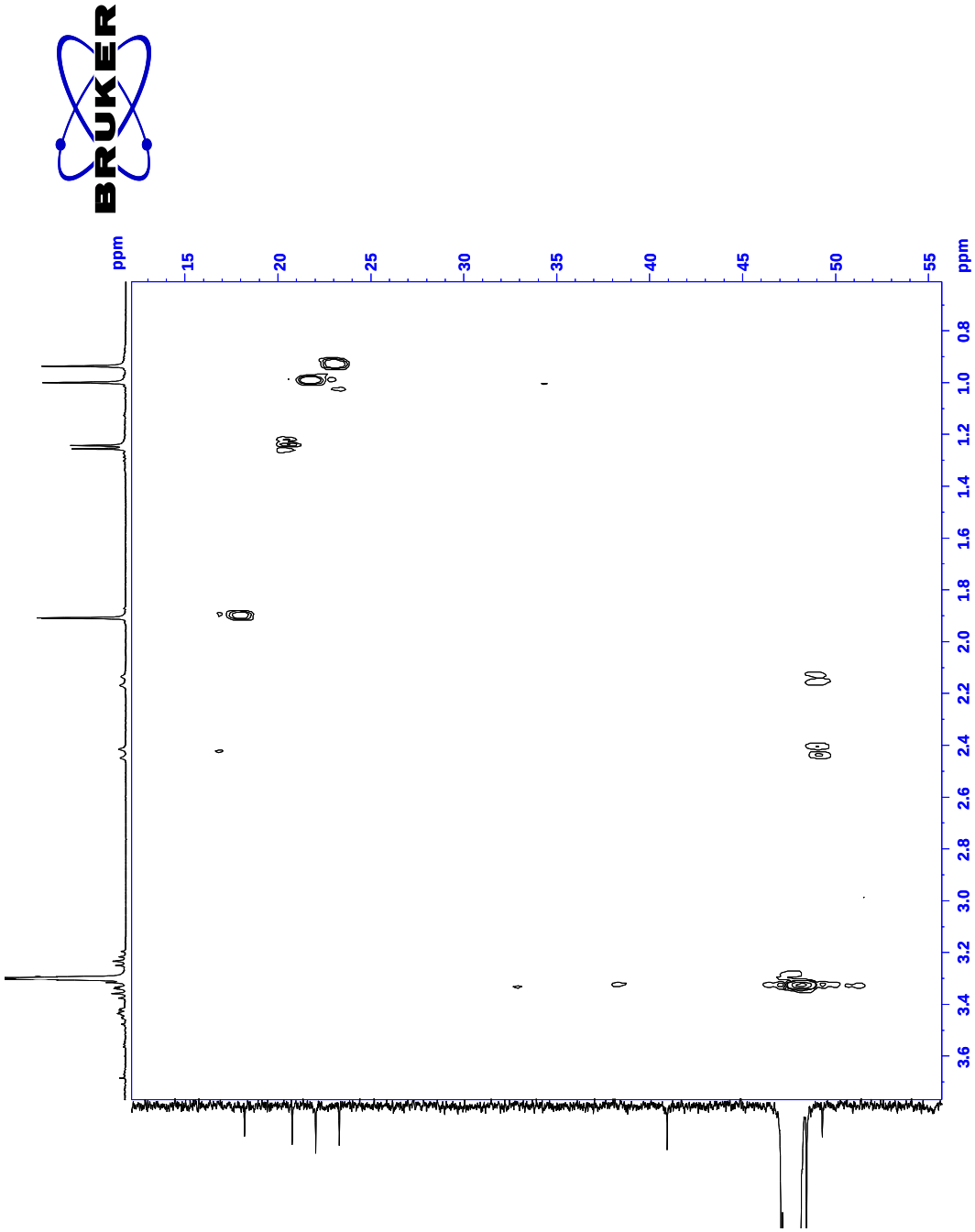
Espectro 24. HMQC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



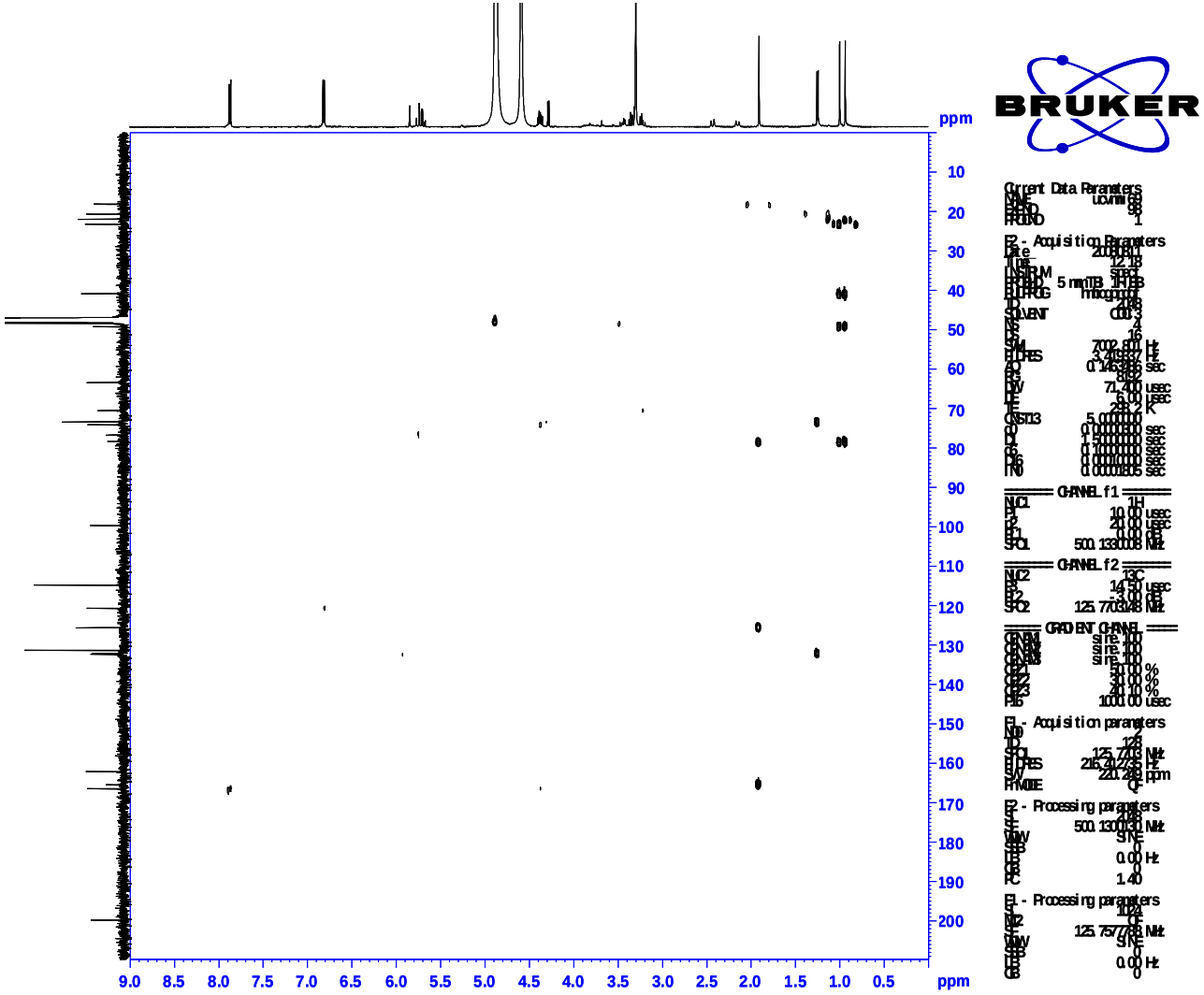
Espectro 25. Ampliación entre 5,6-8,0 ppm en F2 del HMQC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



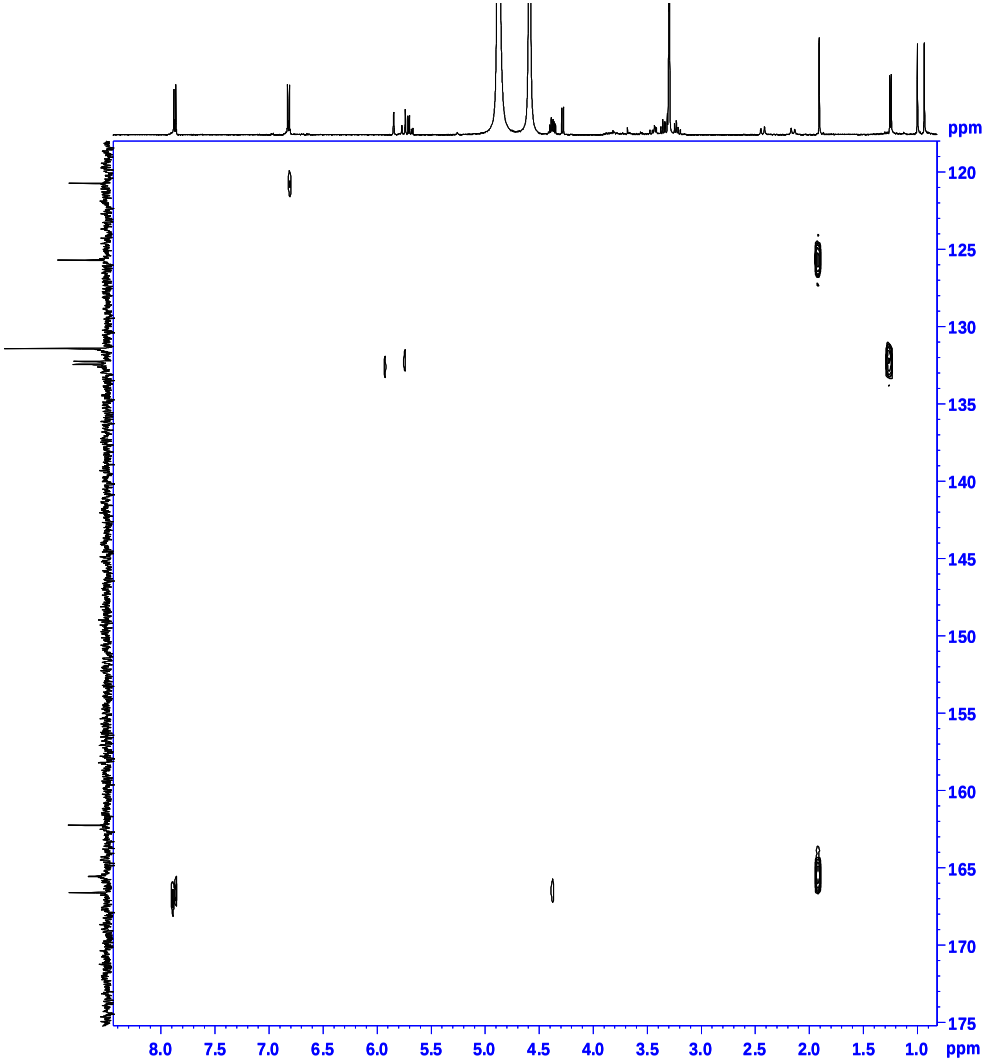
Espectro 26. Ampliación entre 3,0-4,9 ppm en F2 del HMQC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



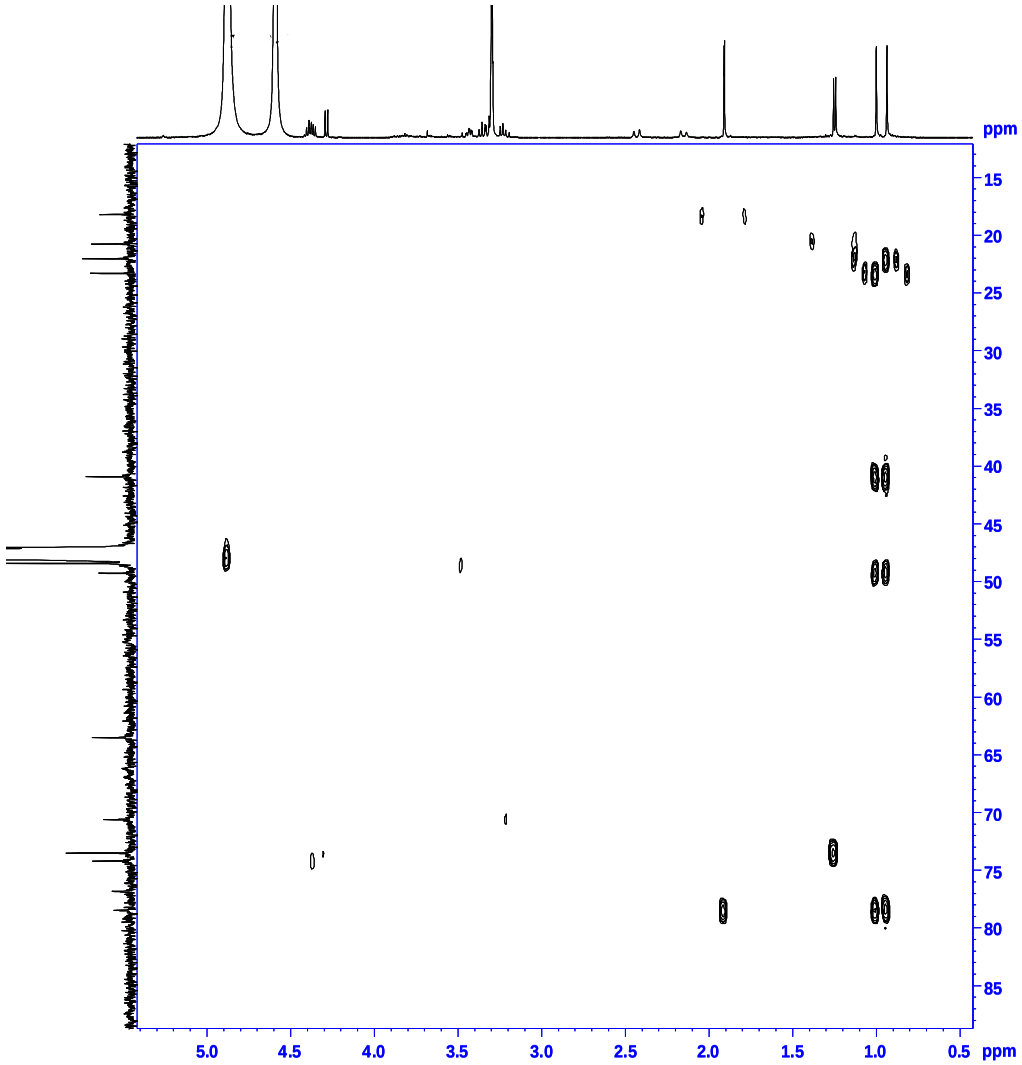
Espectro 27. Ampliación entre 0,8-3,6 ppm en F2 del HMQC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



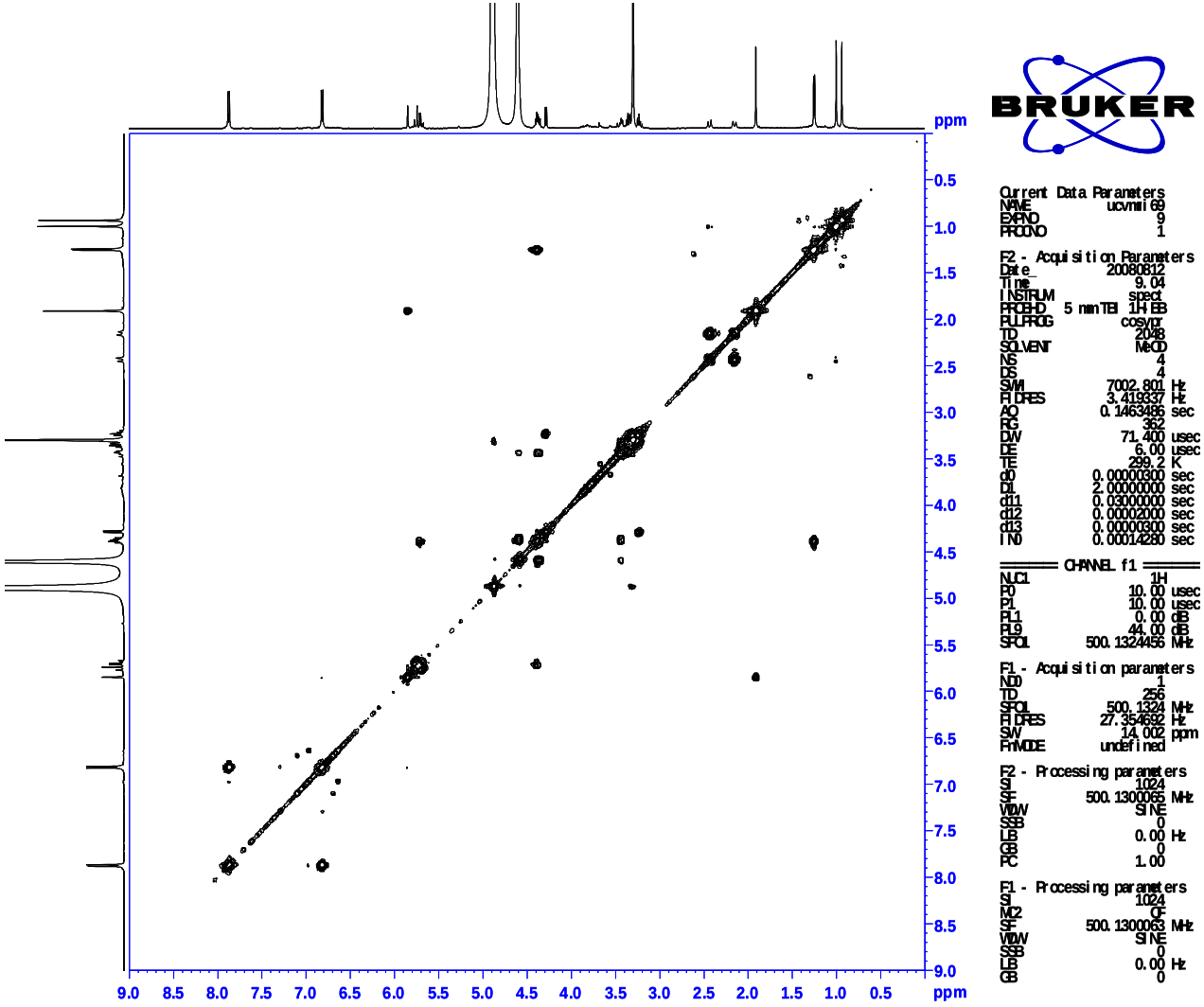
Espectro 28. HMBC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



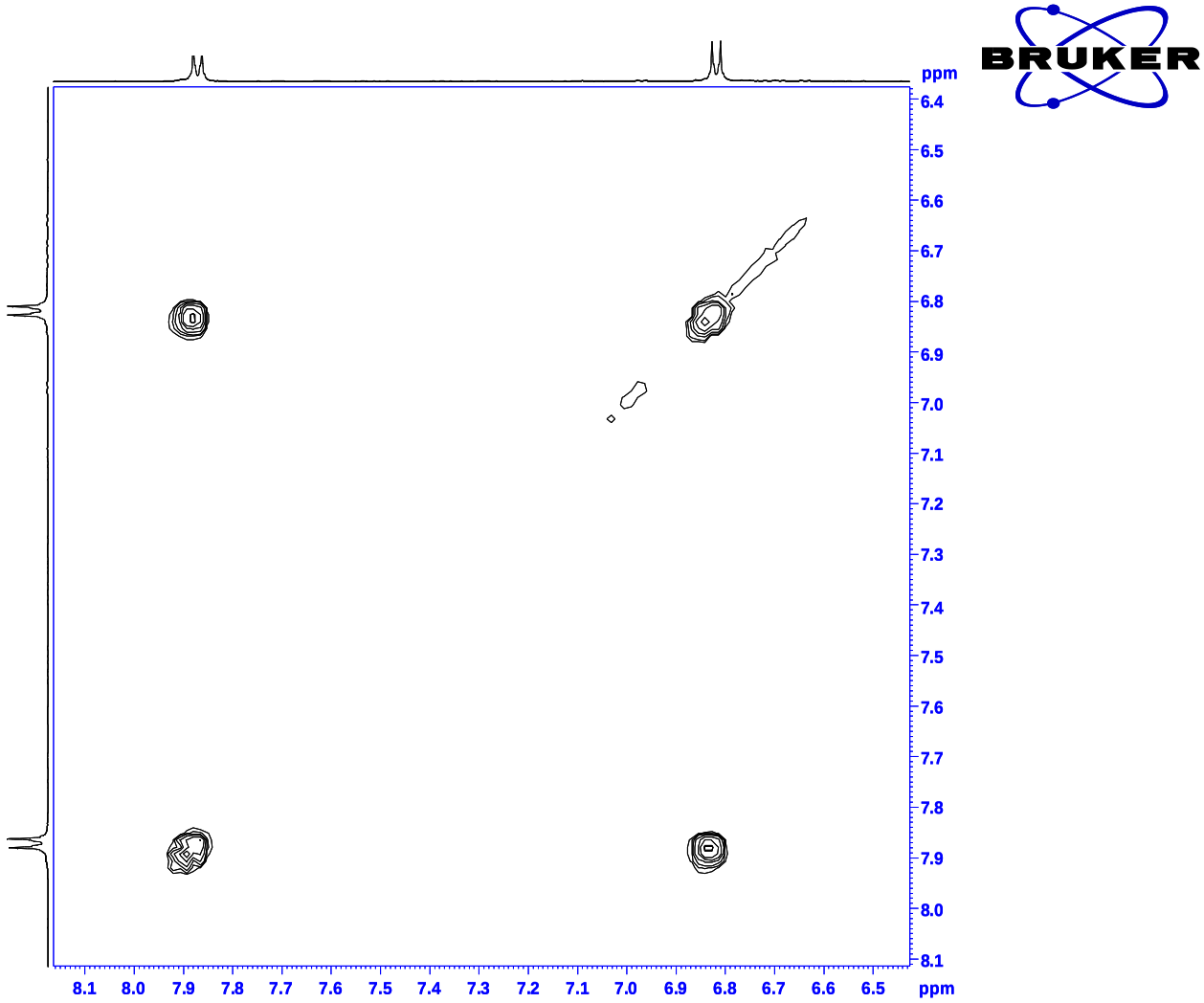
Espectro 29. Ampliación entre 1,0-8,0 ppm del HMBC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



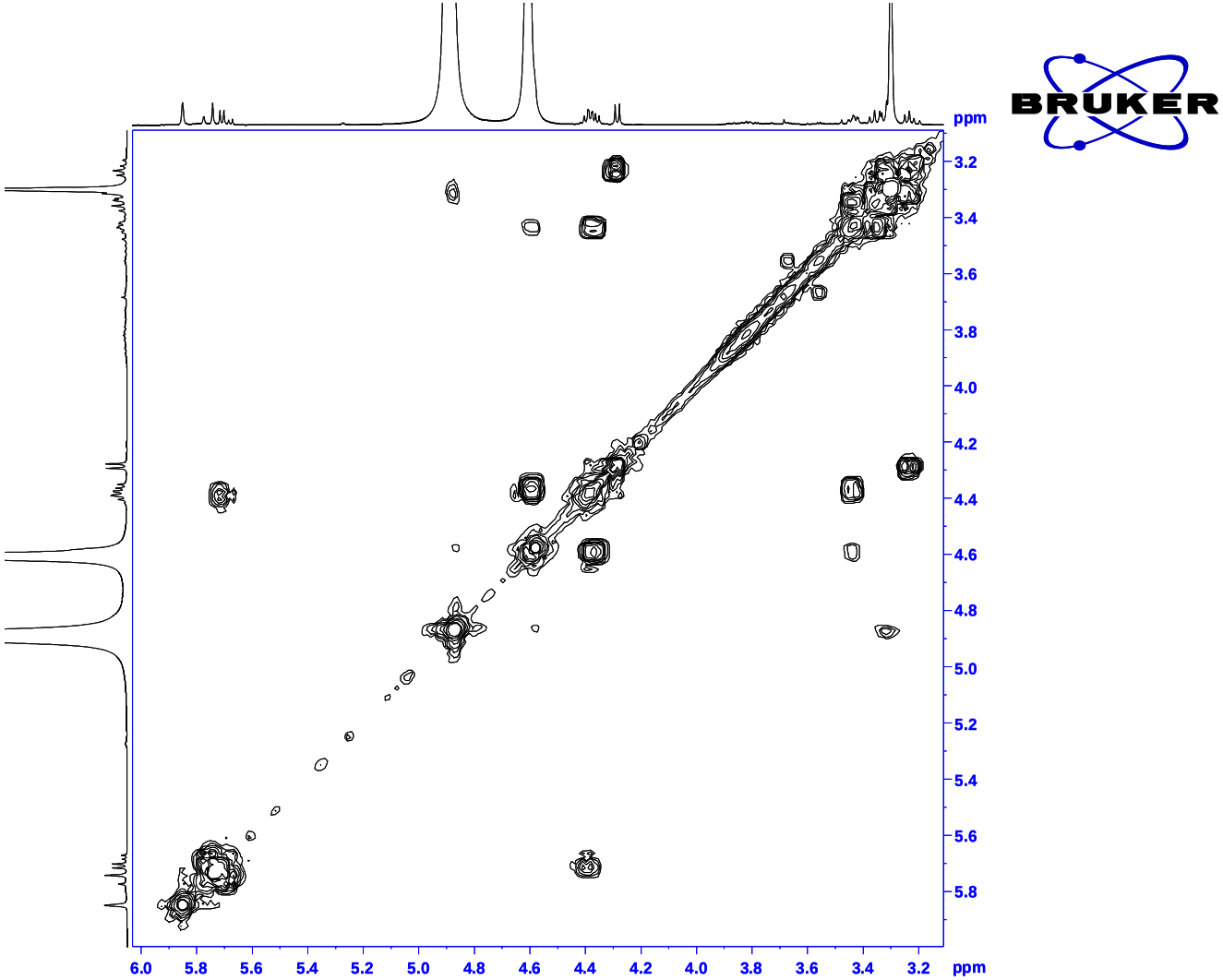
Espectro 30. Ampliación entre 0,5-5,0 ppm del HMBC del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



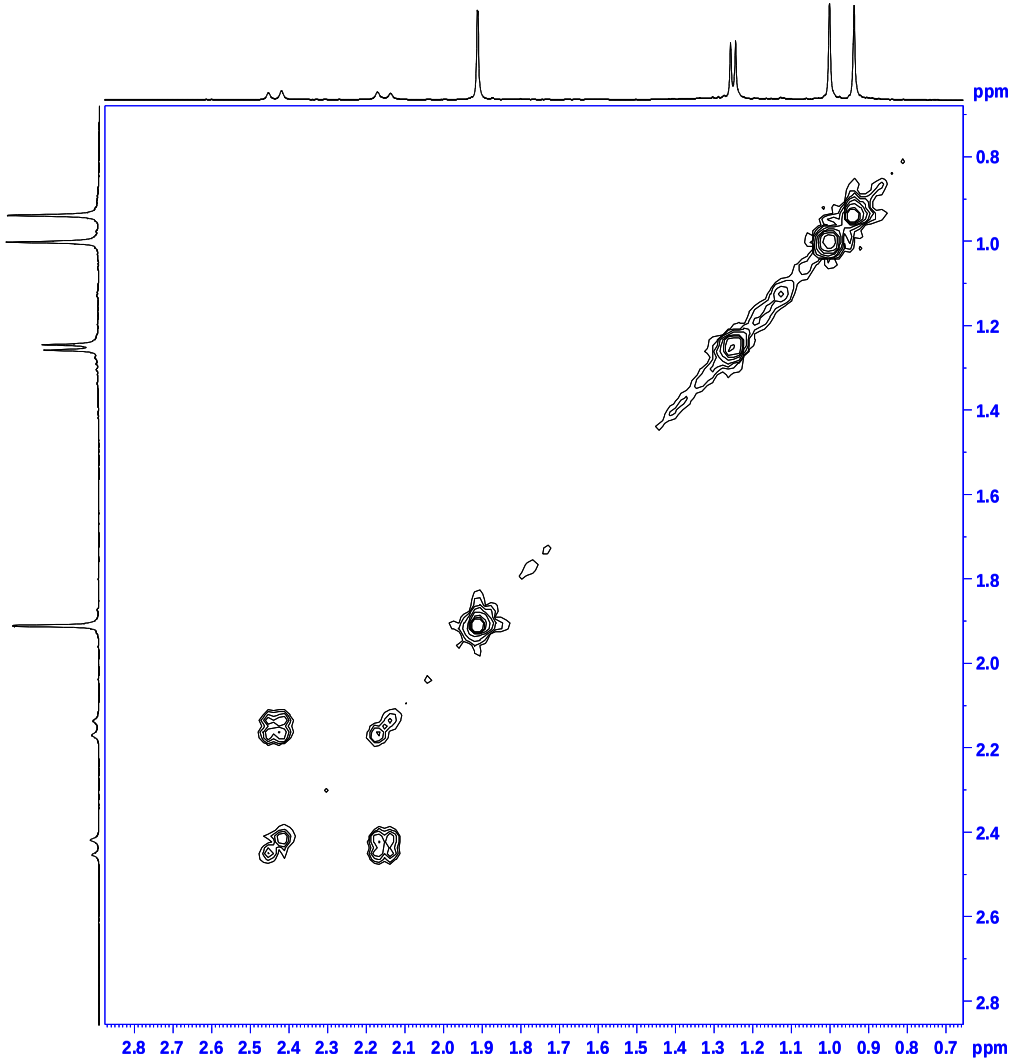
Espectro 31. COSY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



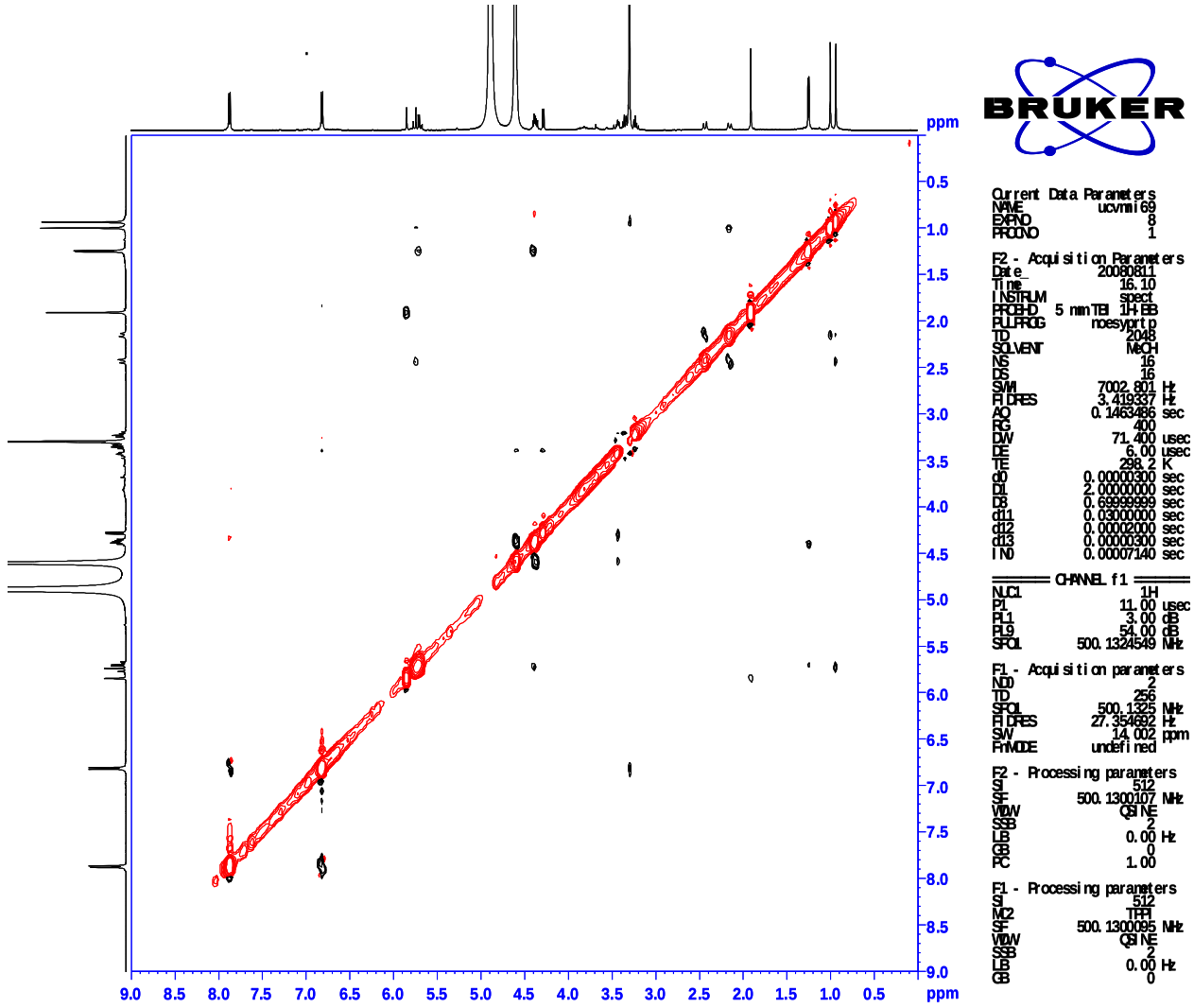
Espectro 32. Ampliación entre 6,5-8,1 ppm en F2 del COSY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



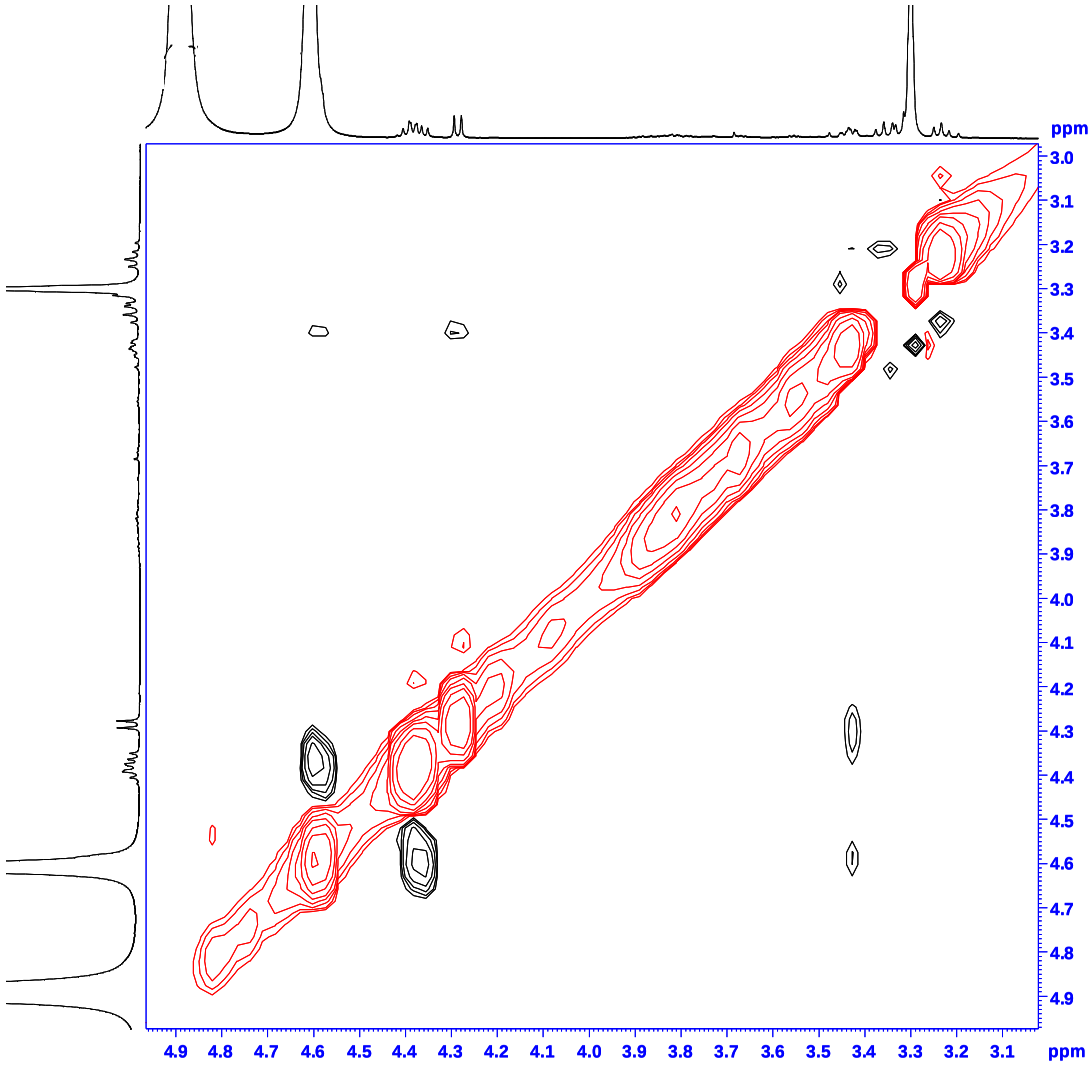
Espectro 33. Ampliación entre 3,2-6,0 ppm en F2 del COSY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



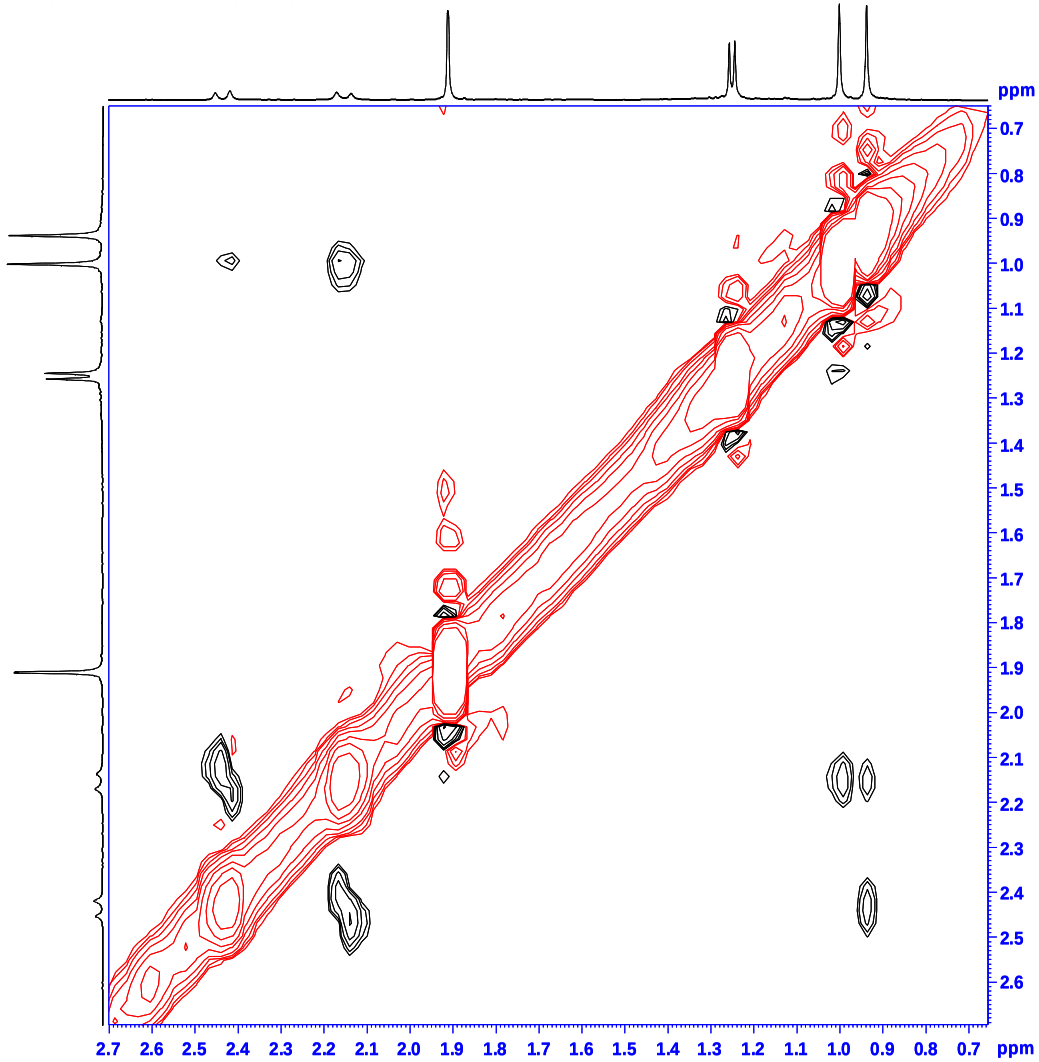
Espectro 34. Ampliación entre 0,7-2,8 ppm en F2 del COSY del compuesto OpD-9 (6'-(4''-hidroxibenzoil)-roseósido



Espectro 35. NOESY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].

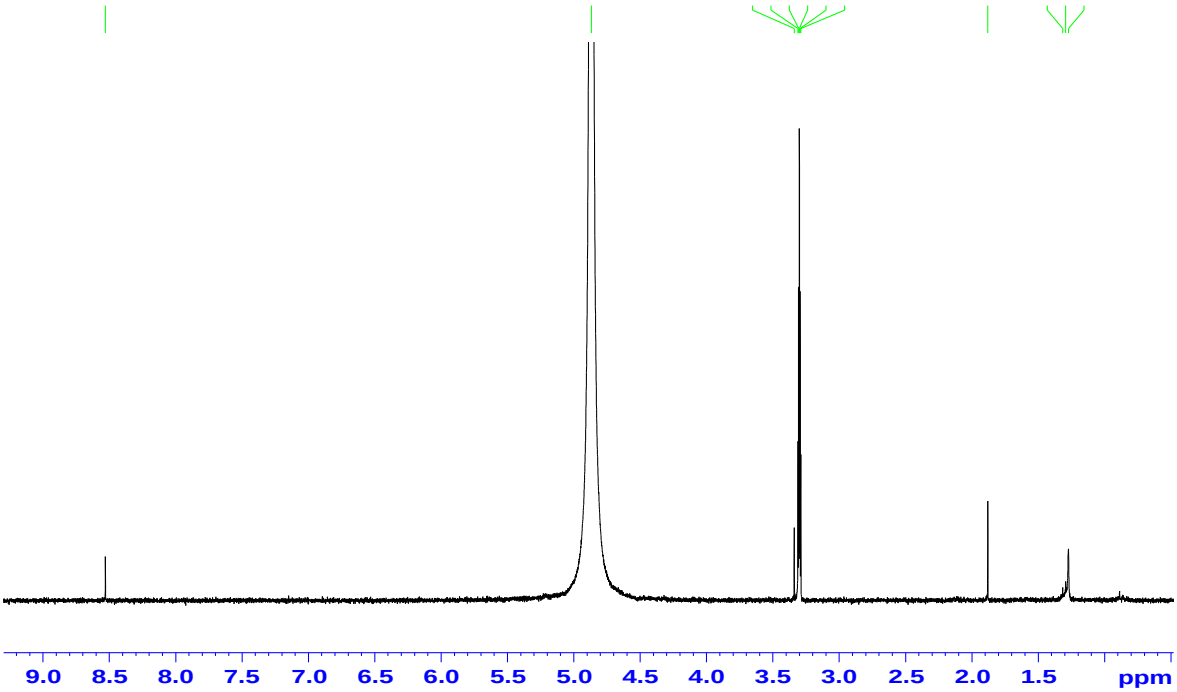


Espectro 36. Ampliación entre 3,1-4,9 ppm en F2 del NOESY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].



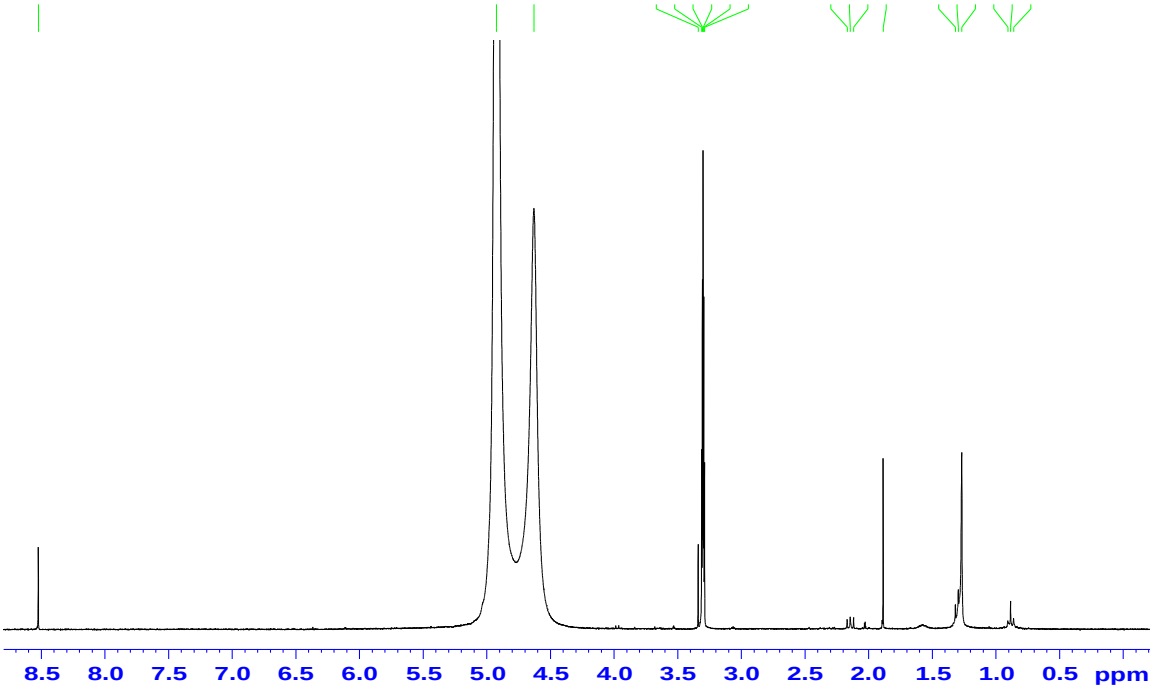
Espectro 37. Ampliación entre 0,7-2,7 ppm en F2 del NOESY del compuesto OpD-9 [(6R,9S)-6'-(4''-hidroxibenzoil)-roseósido].

Maria Rodriguez / Jairo Bermudez / UCVMRJB-CFRSHiNaOH1
MeOD / Protones.



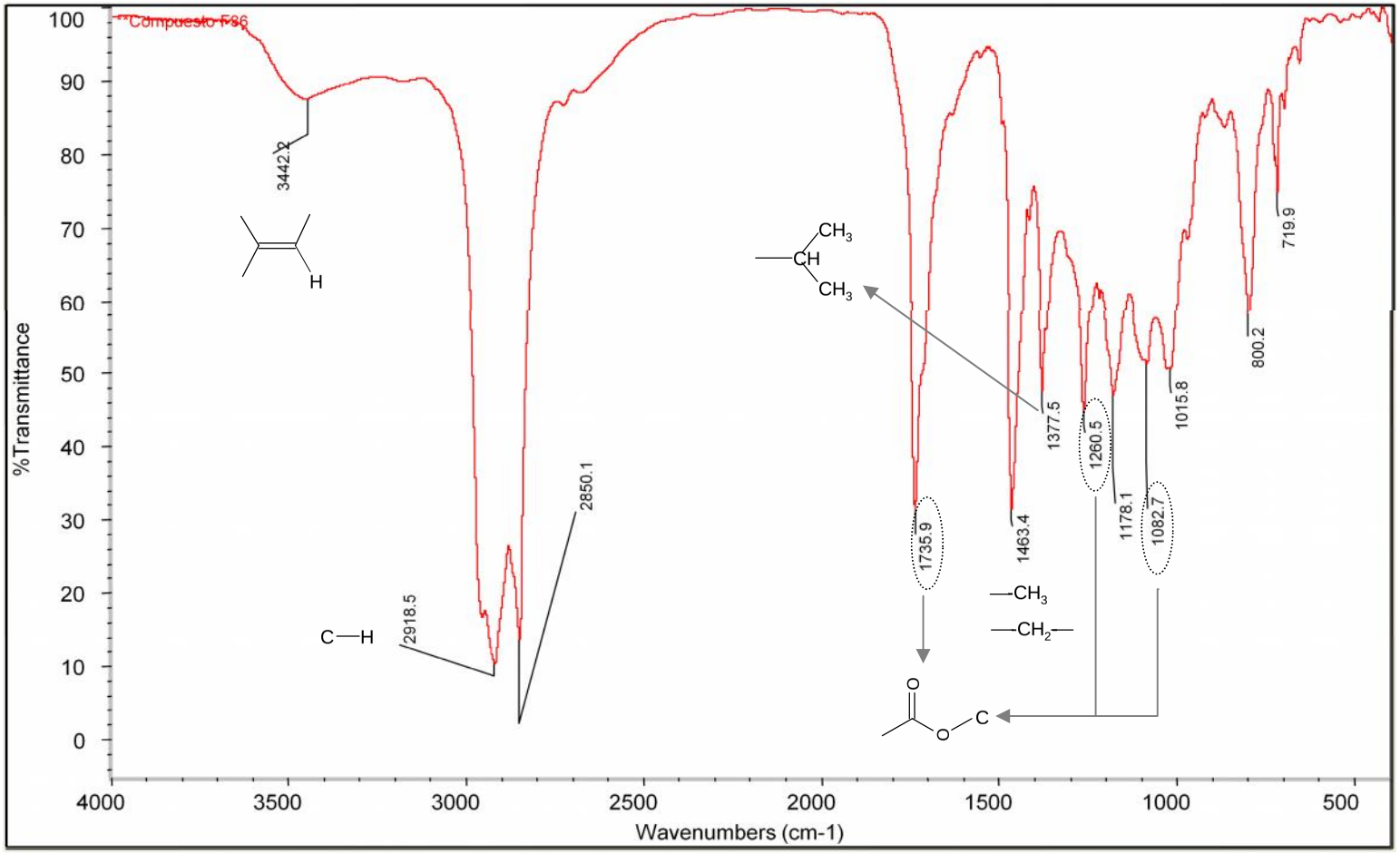
Espectro 38. Espectro de RMN-^{1}H del compuesto CfRS-1

Maria Rodriguez / Jairo Bermudez / UCVMRJB-CFRSHiNaOH2
MeOD / Protones.

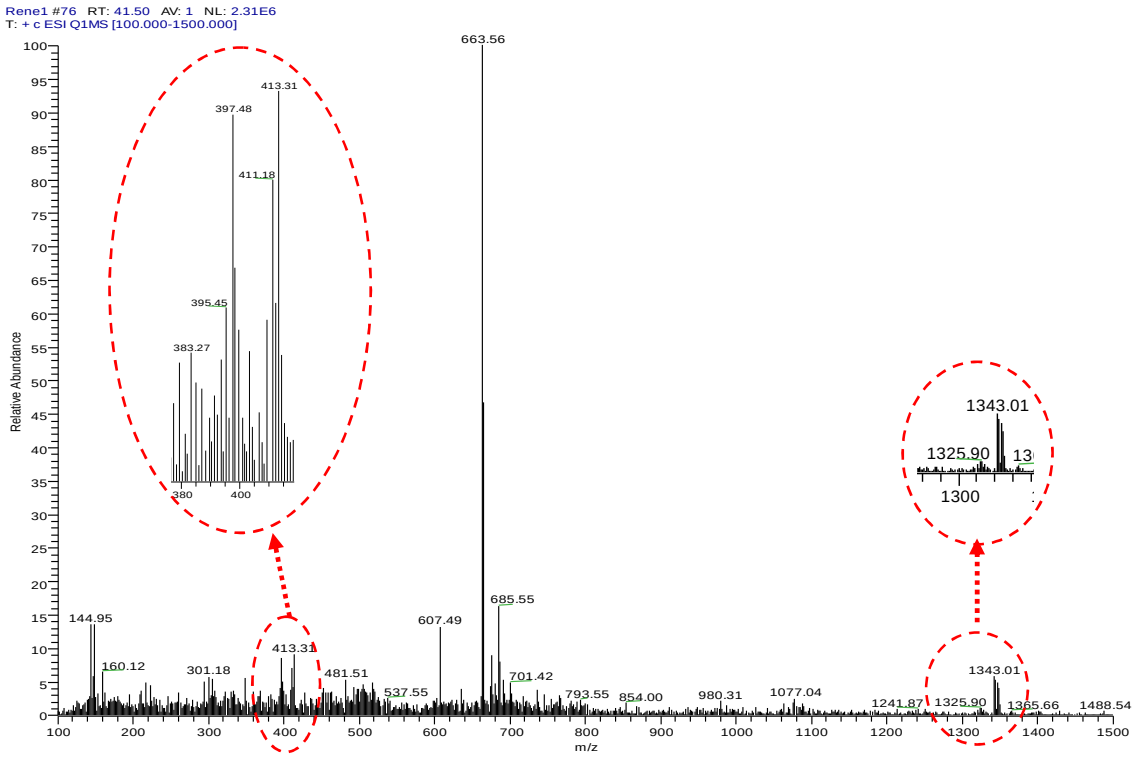


Espectro 39. Espectro de RMN-^{1}H del compuesto CfRS-2

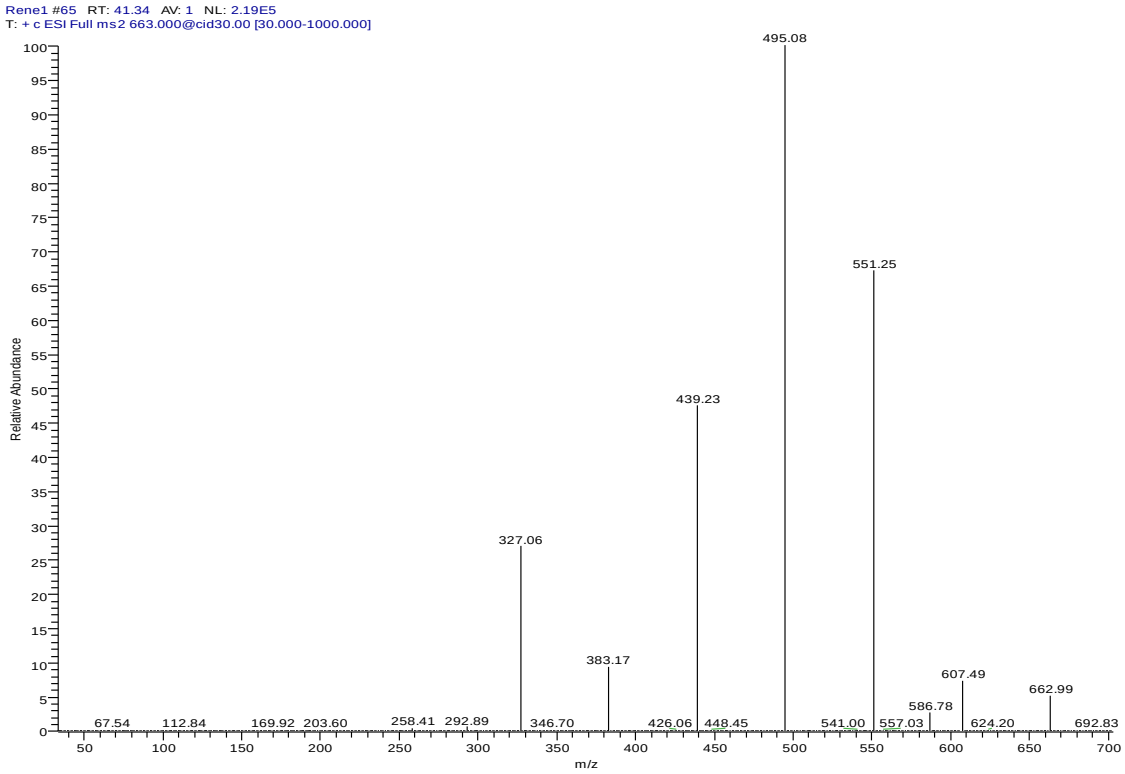
Espectro 40. Espectro de RMN-^{13}C del compuesto CfRS-1



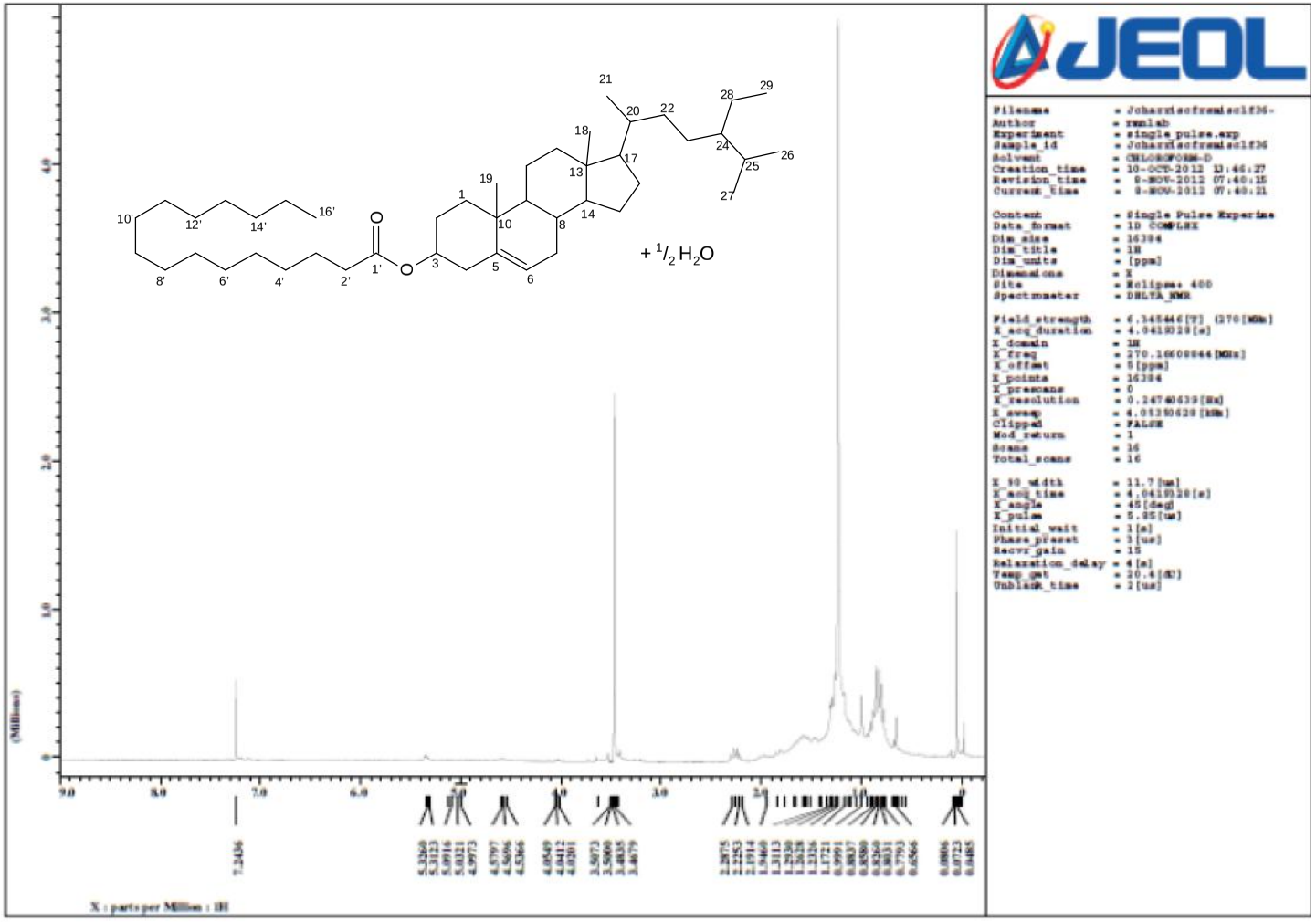
Espectro 41 IR del compuesto CfR-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O),



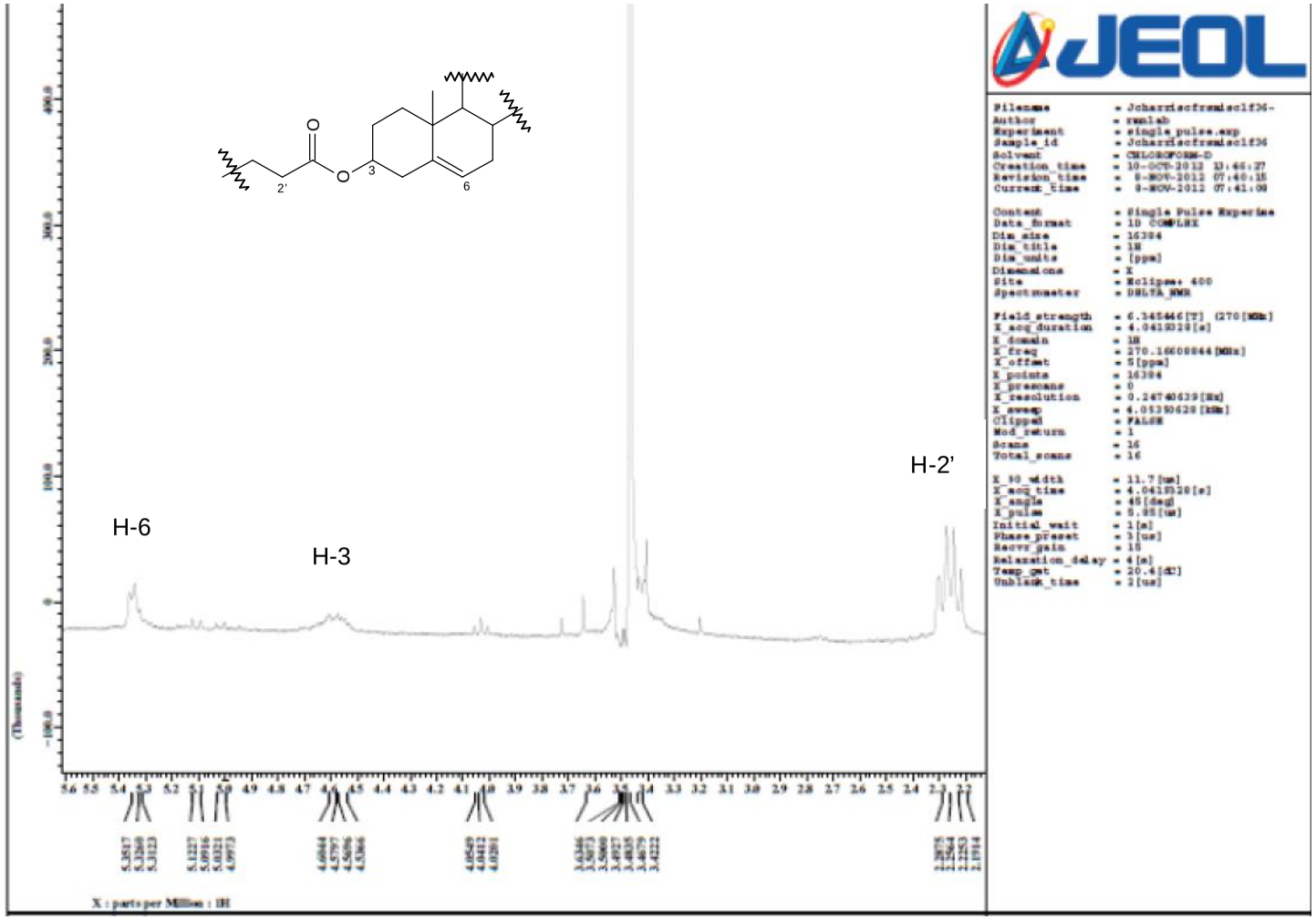
Espectro 42. EM del compuesto CfR-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



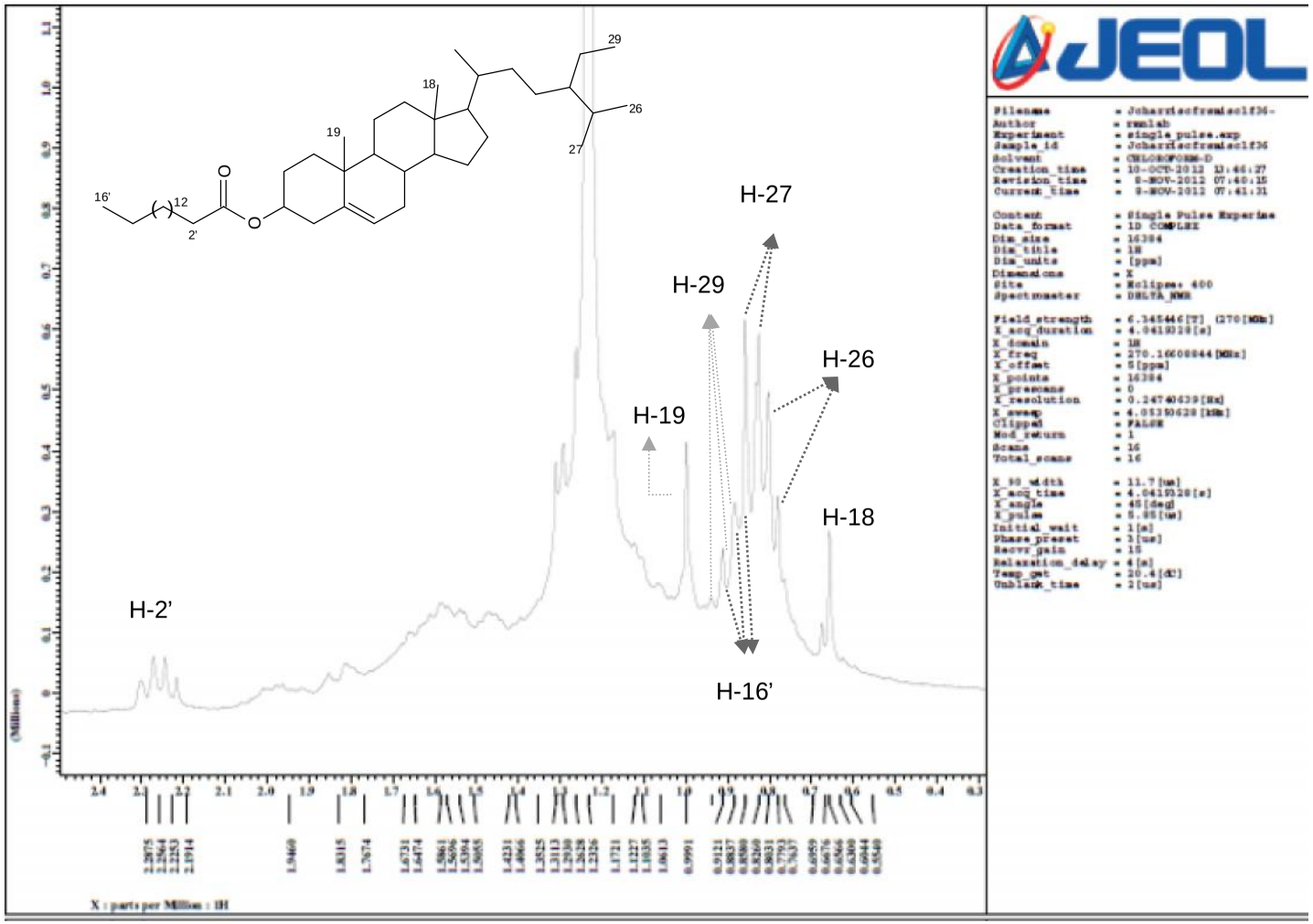
Espectro 43. EM-EM del ión 663 uma del compuesto CfR-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



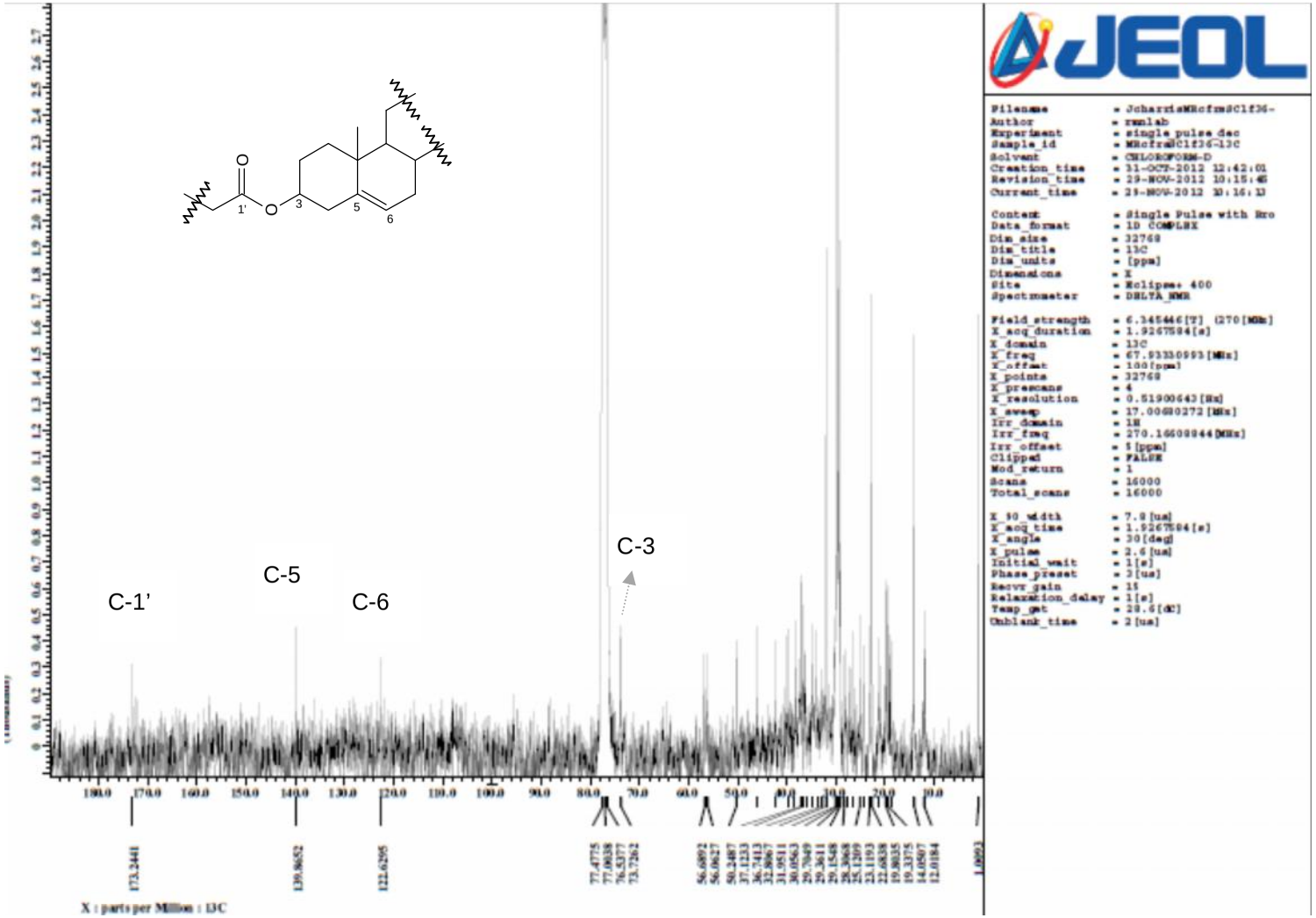
Espectro 44. RMN-^{1}H del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



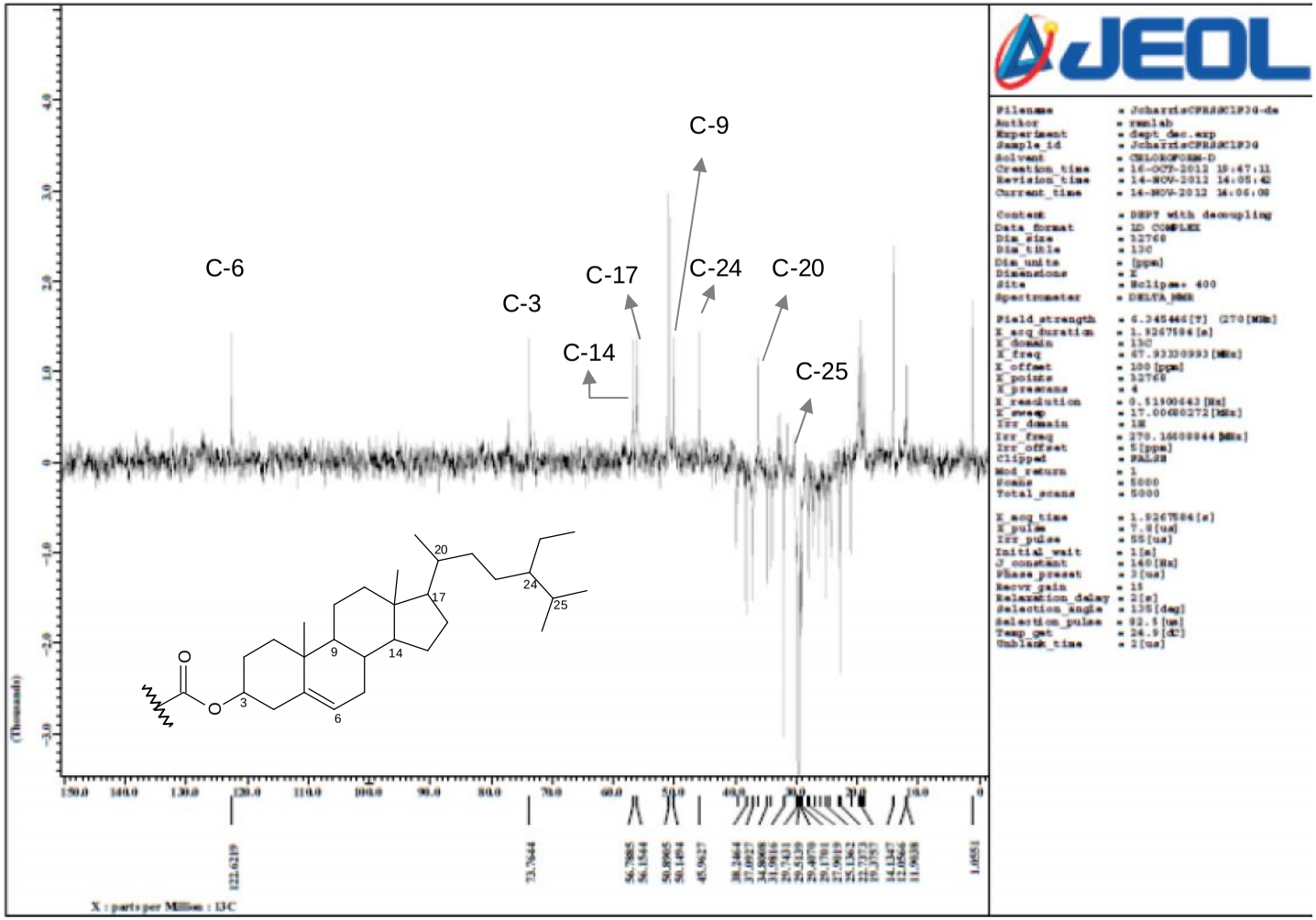
Espectro 45 Ampliación entre 2,2 y 5,6 ppm del espectro RMN-^{1}H del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



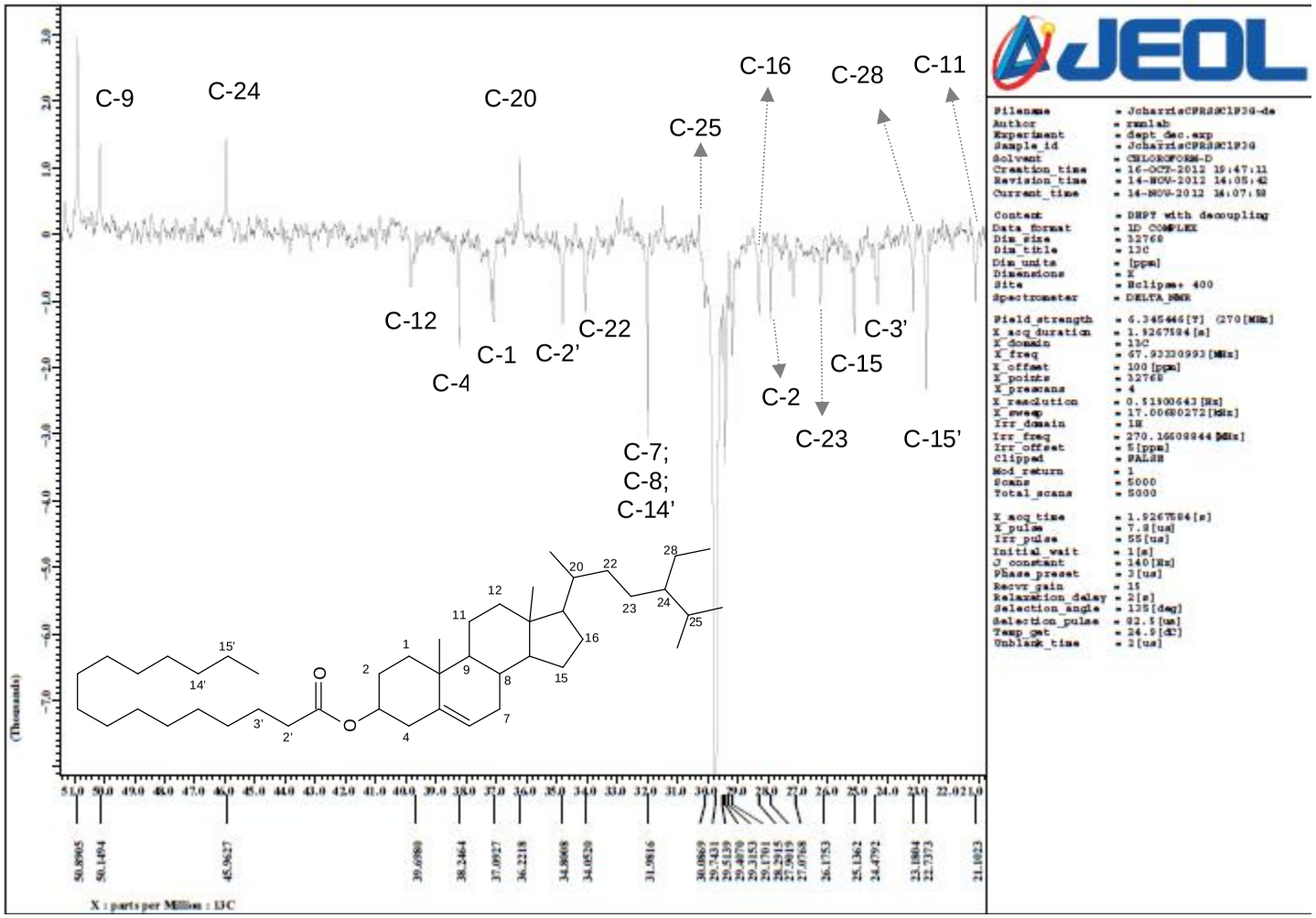
Espectro 46 Ampliación entre 0,3 y 2,4 ppm del espectro RMN-^{1}H del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



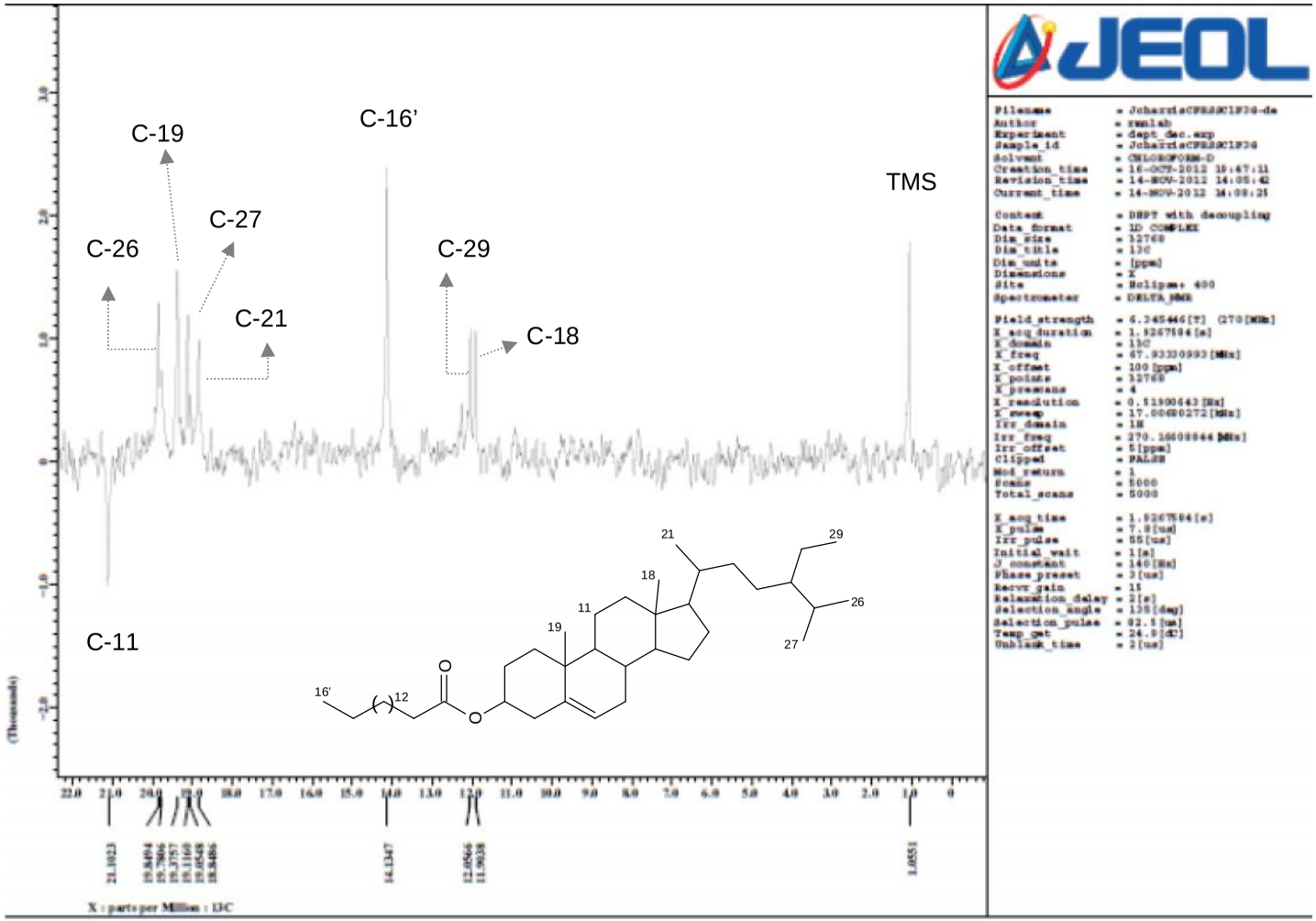
Espectro 47. RMN-^{13}C del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



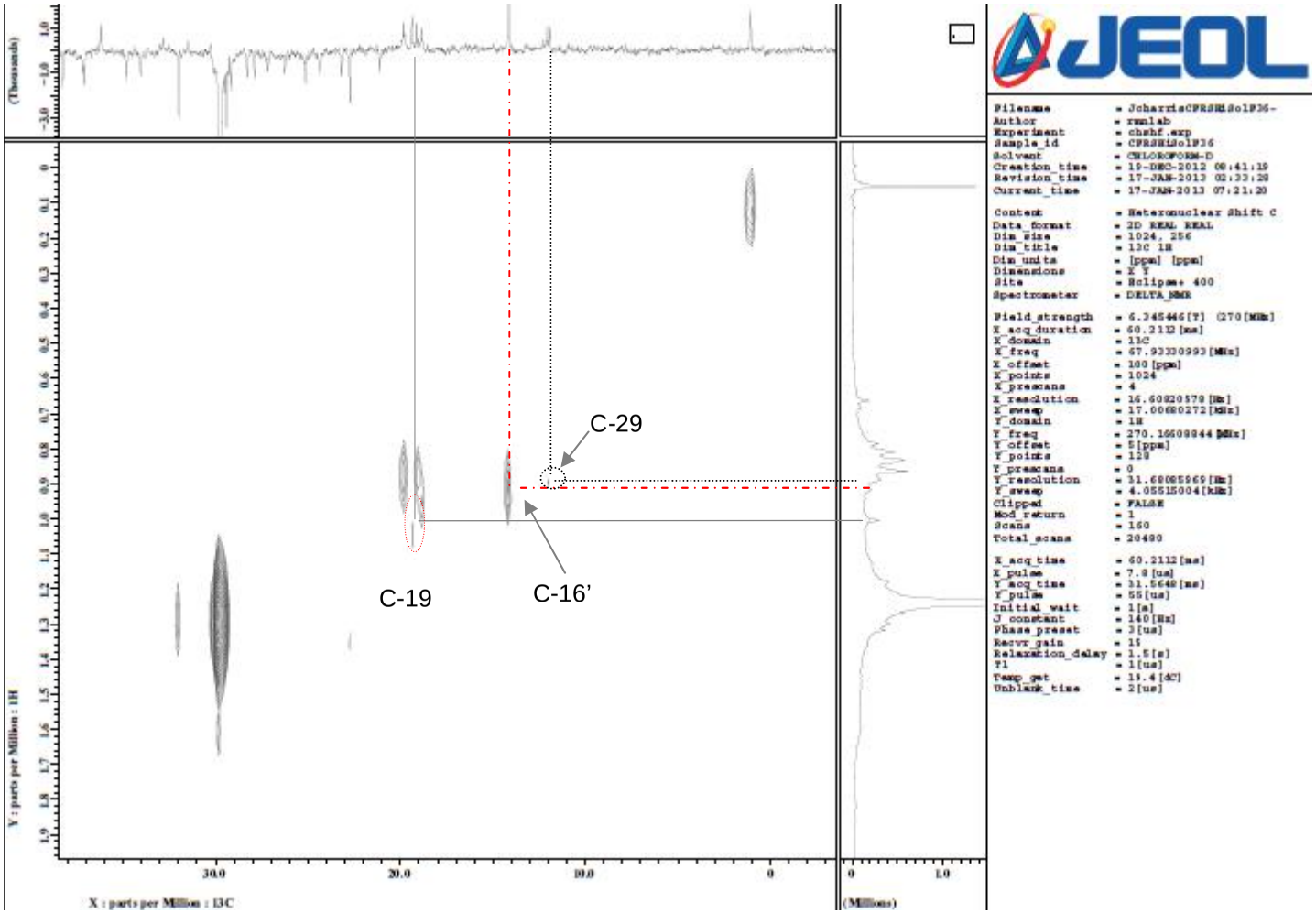
Espectro 48. DEPT-135 del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



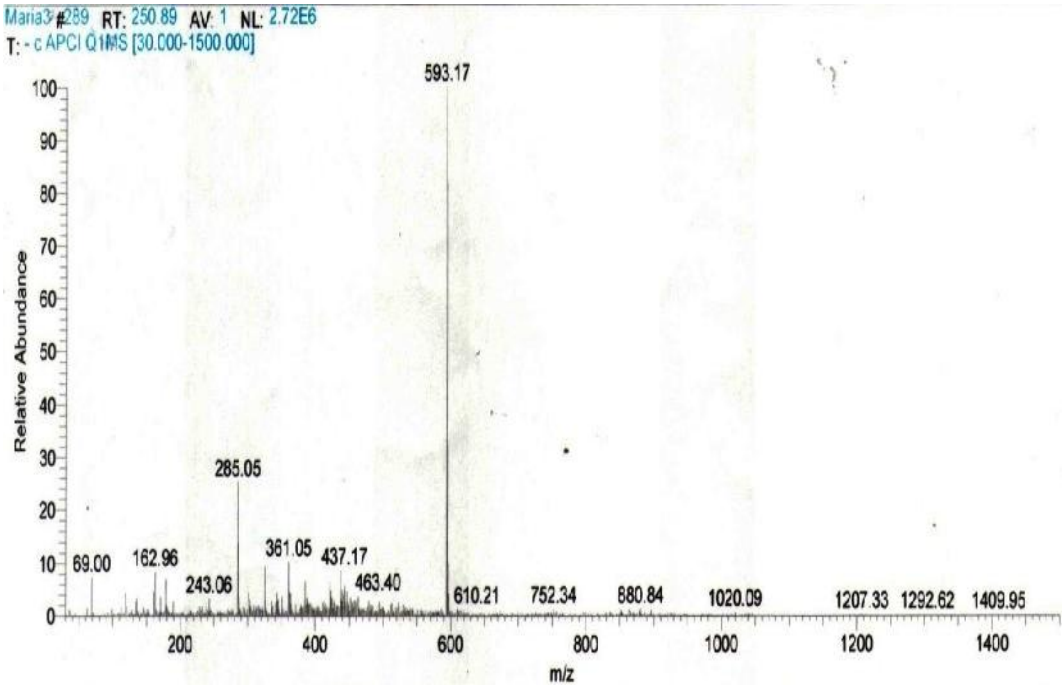
Espectro 49. Ampliación entre 21 y 51 ppm del espectro DEPT-135 del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



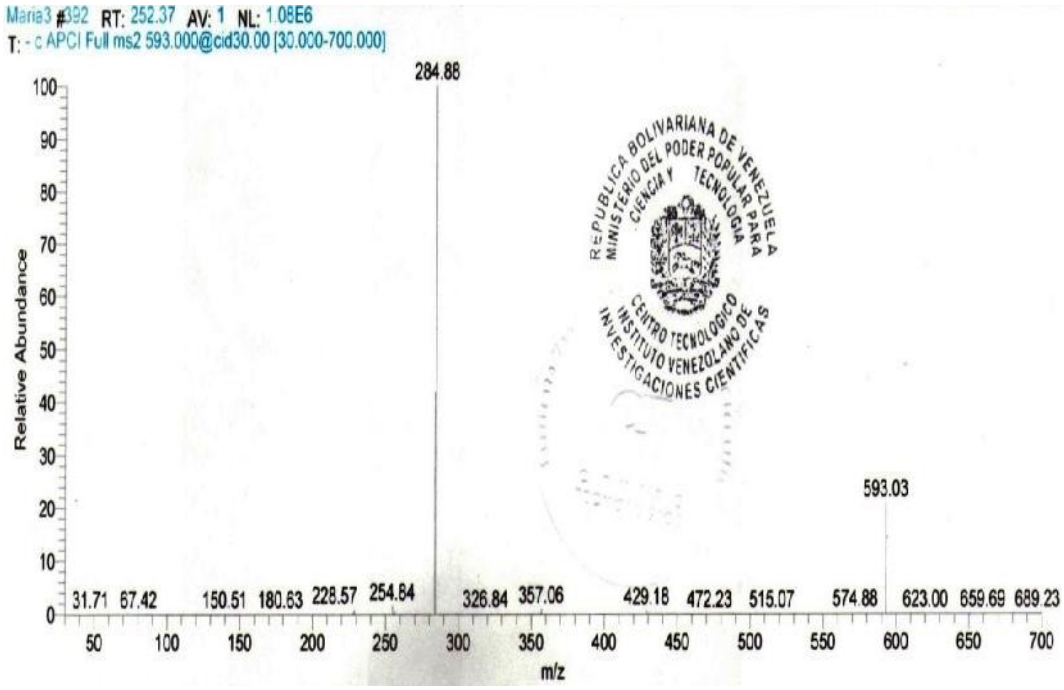
Espectro 50. Ampliación entre 0 y 22 ppm del espectro DEPT-135 del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



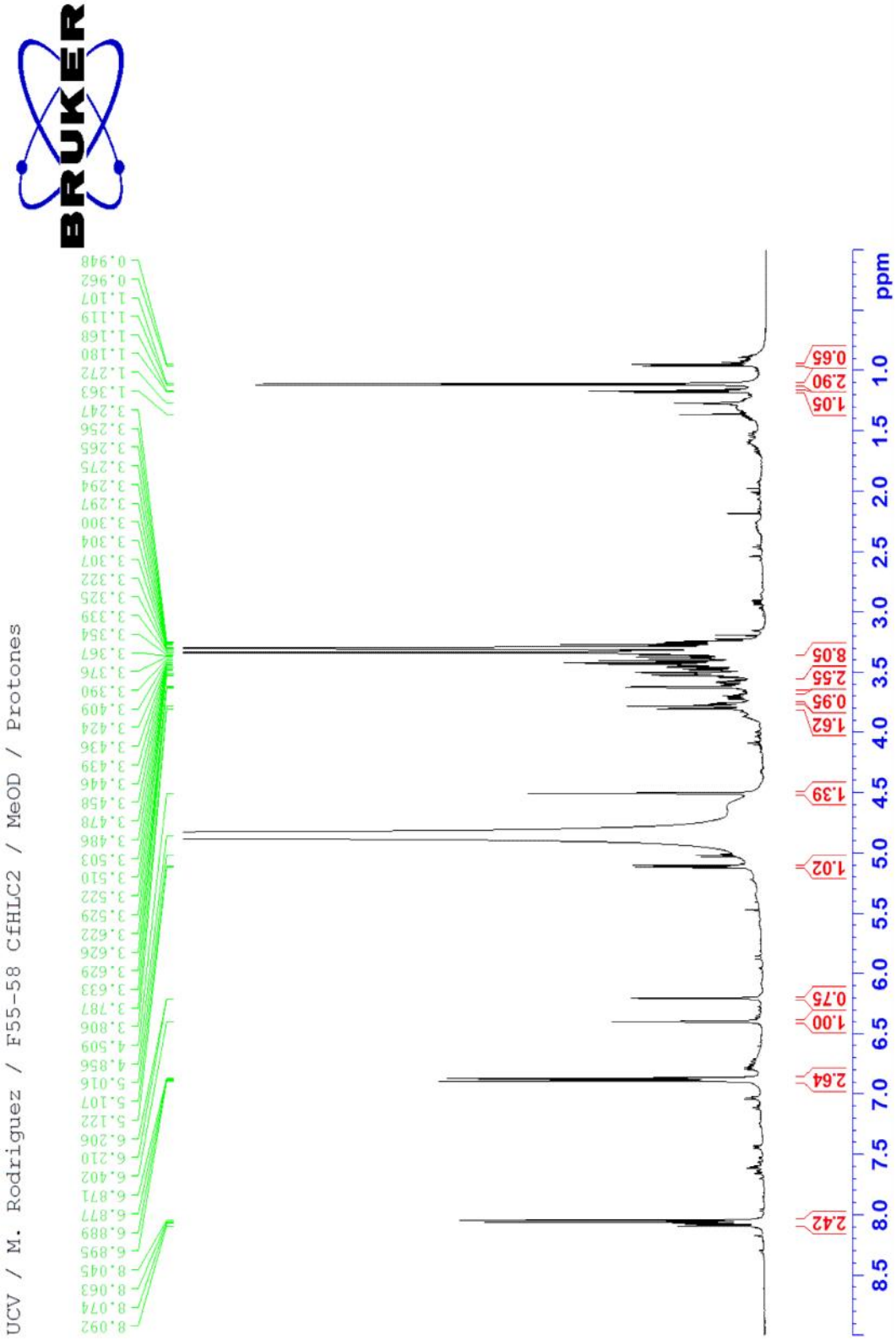
Espectro 51. Correlación Heteronuclear (HetCor) del compuesto CfRS-3 (β-sitosterol palmitato•$^{1}/_{2}$•H_2O).



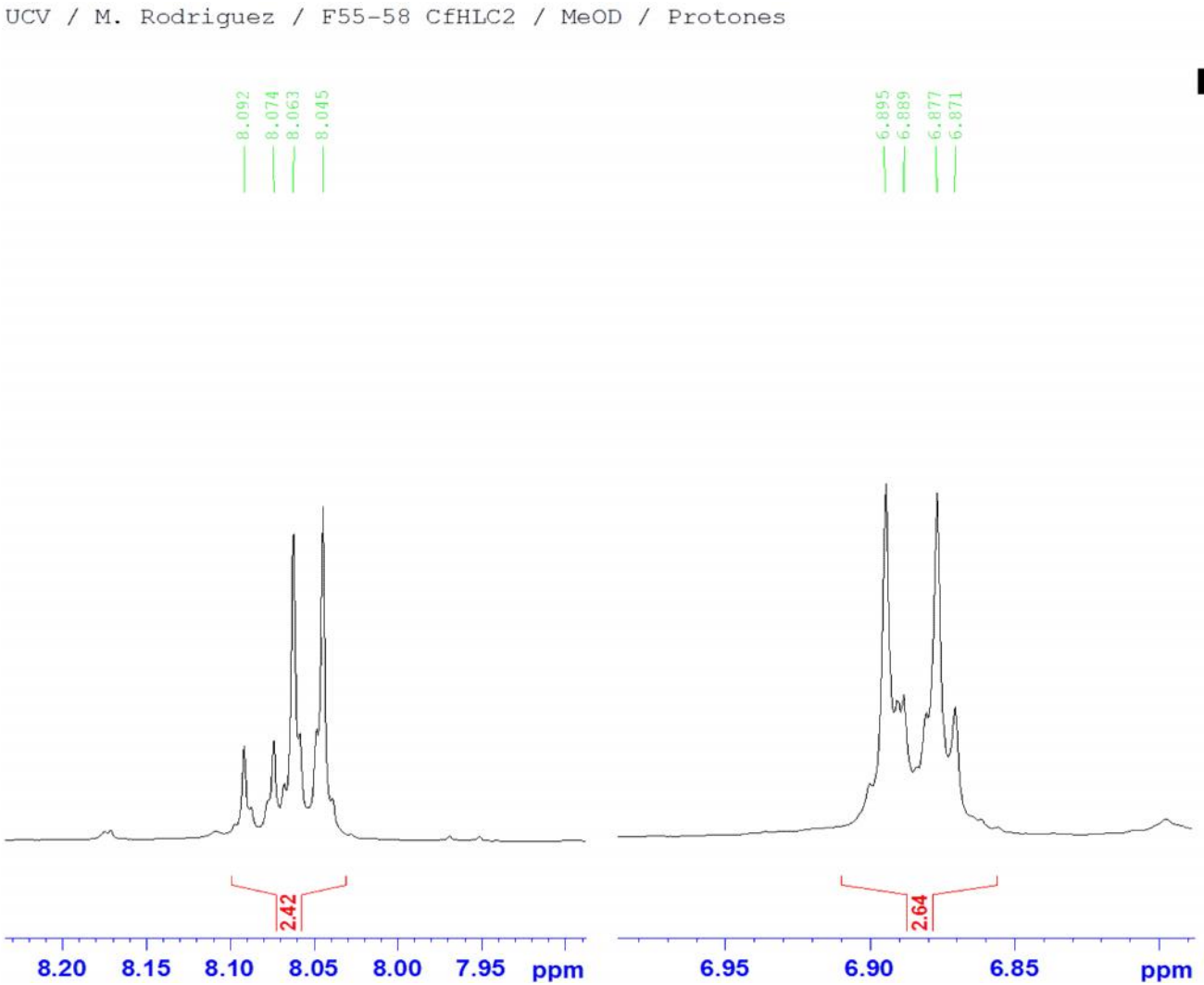
Espectro 52. EM del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



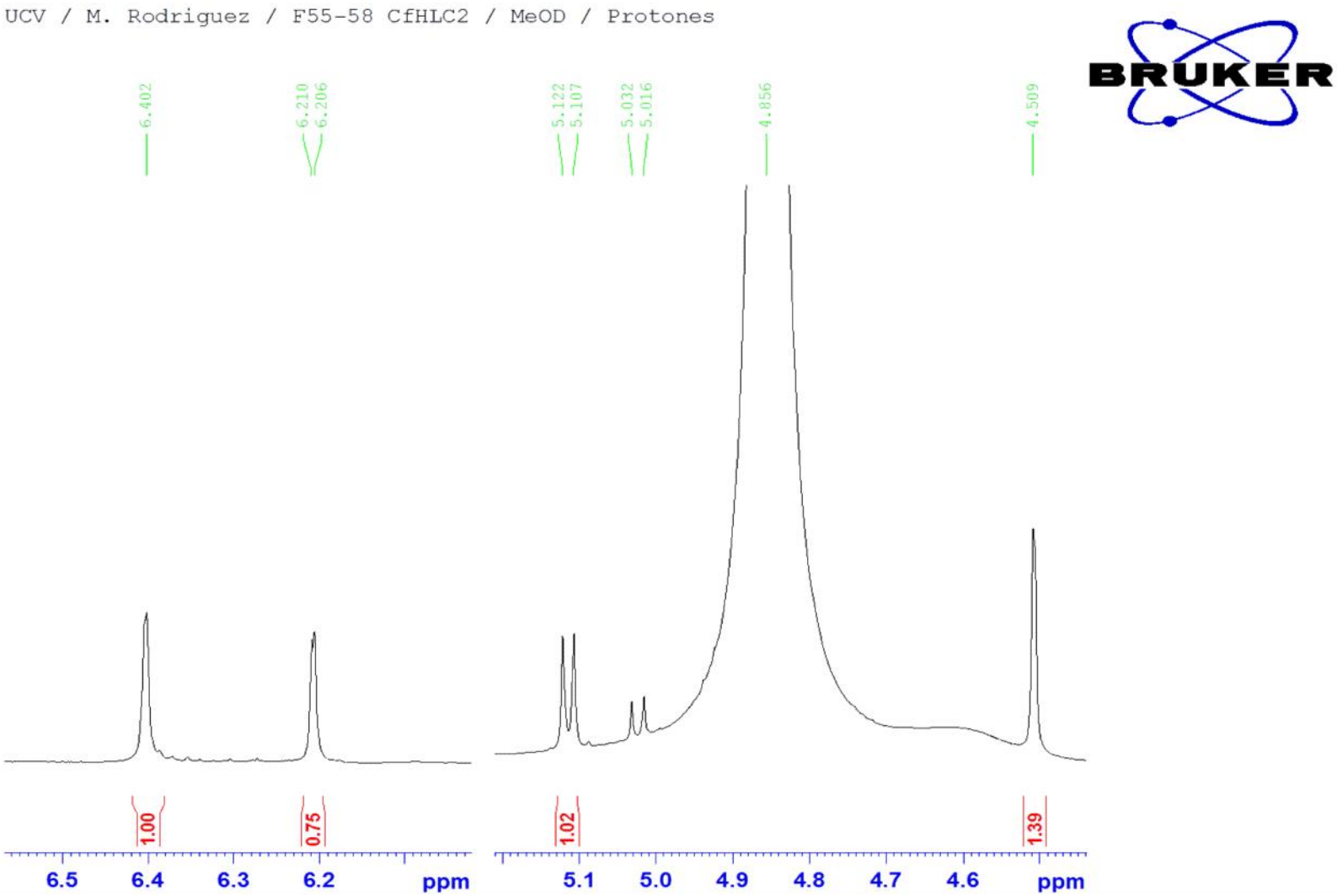
Espectro 53. EM-EM del ión uma del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



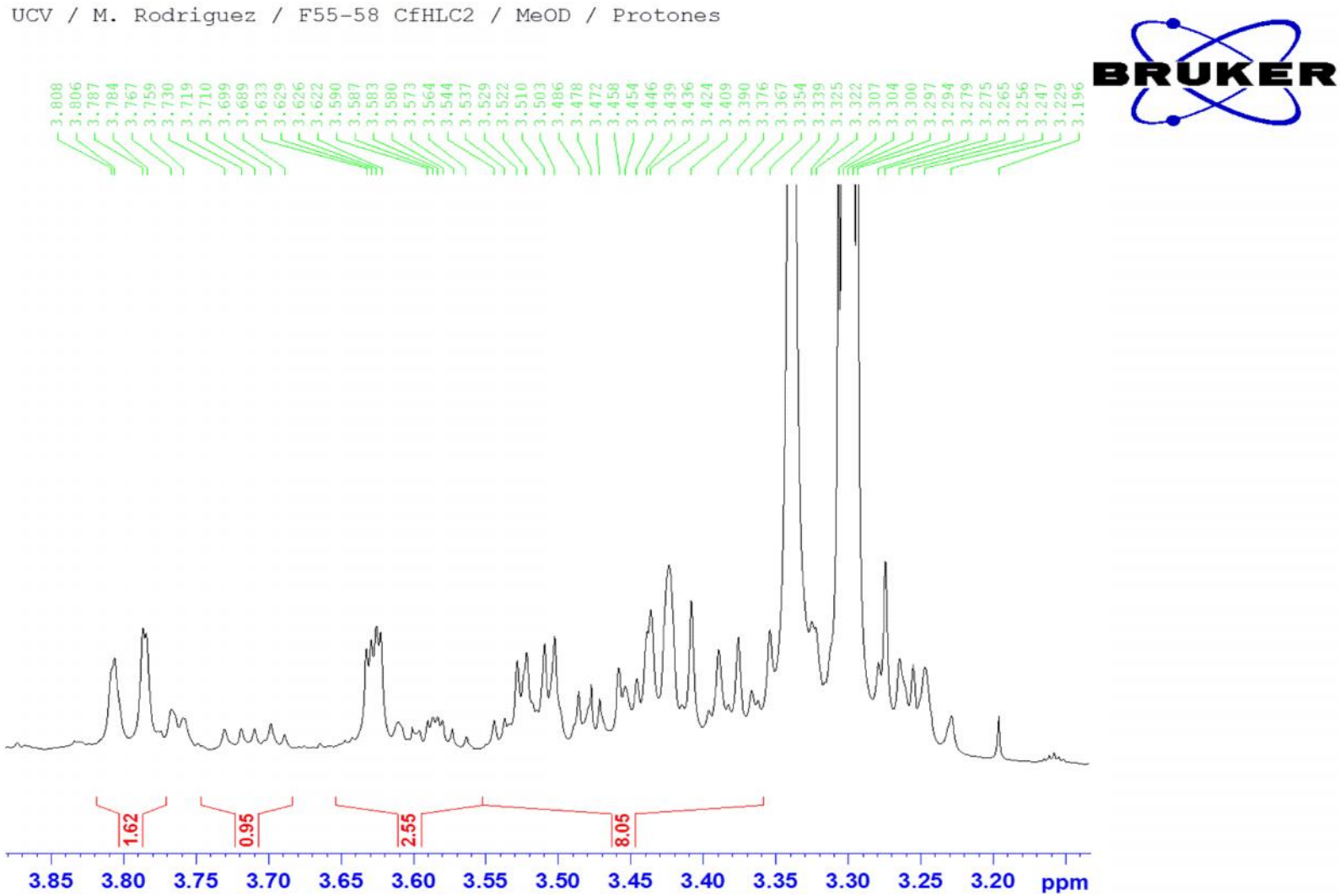
Espectro 54.- Espectro RMN-^{1}H del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



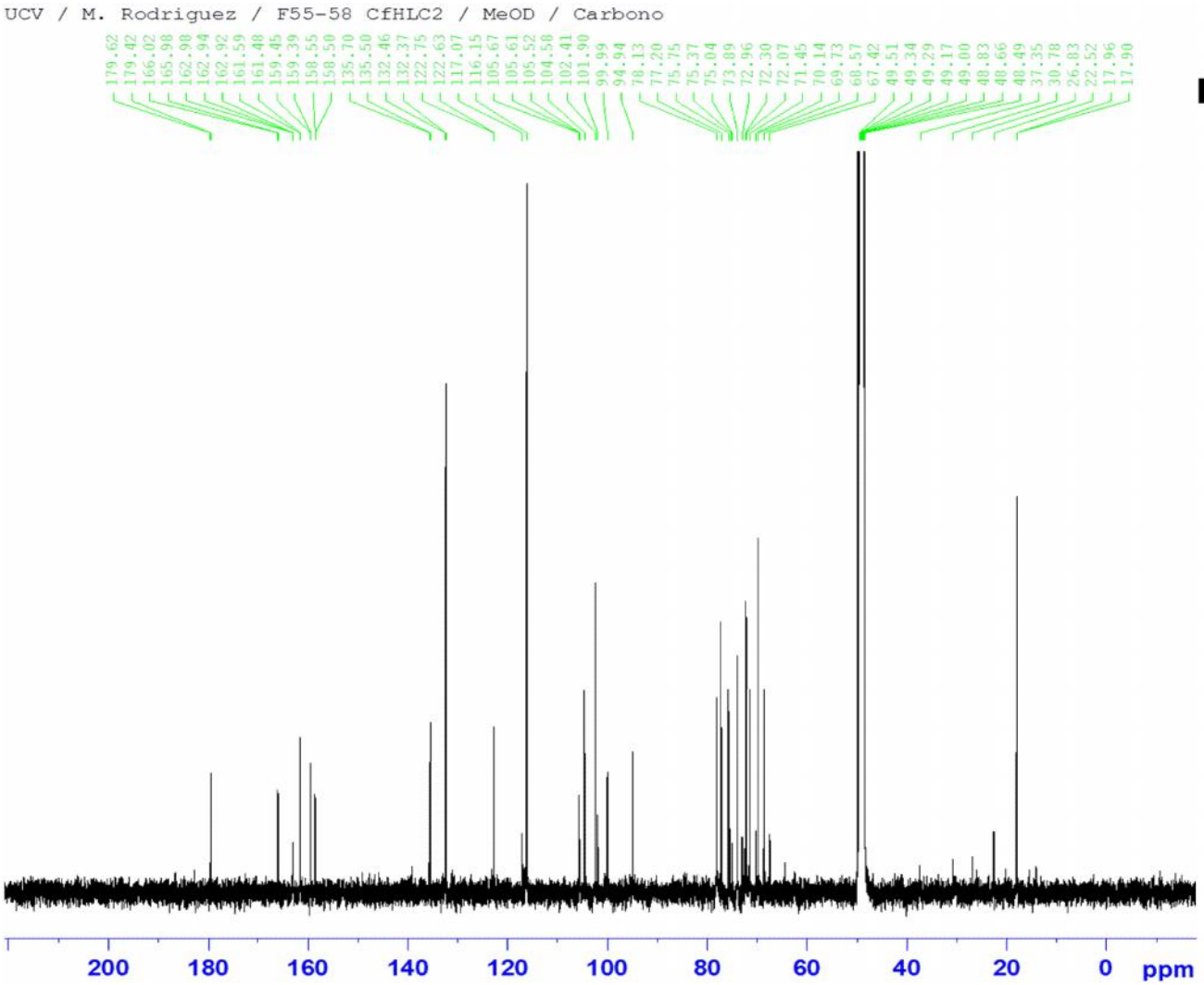
Espectro 55.- Ampliación entre 6,8-8,2 ppm del espectro RMN-^{1}H del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



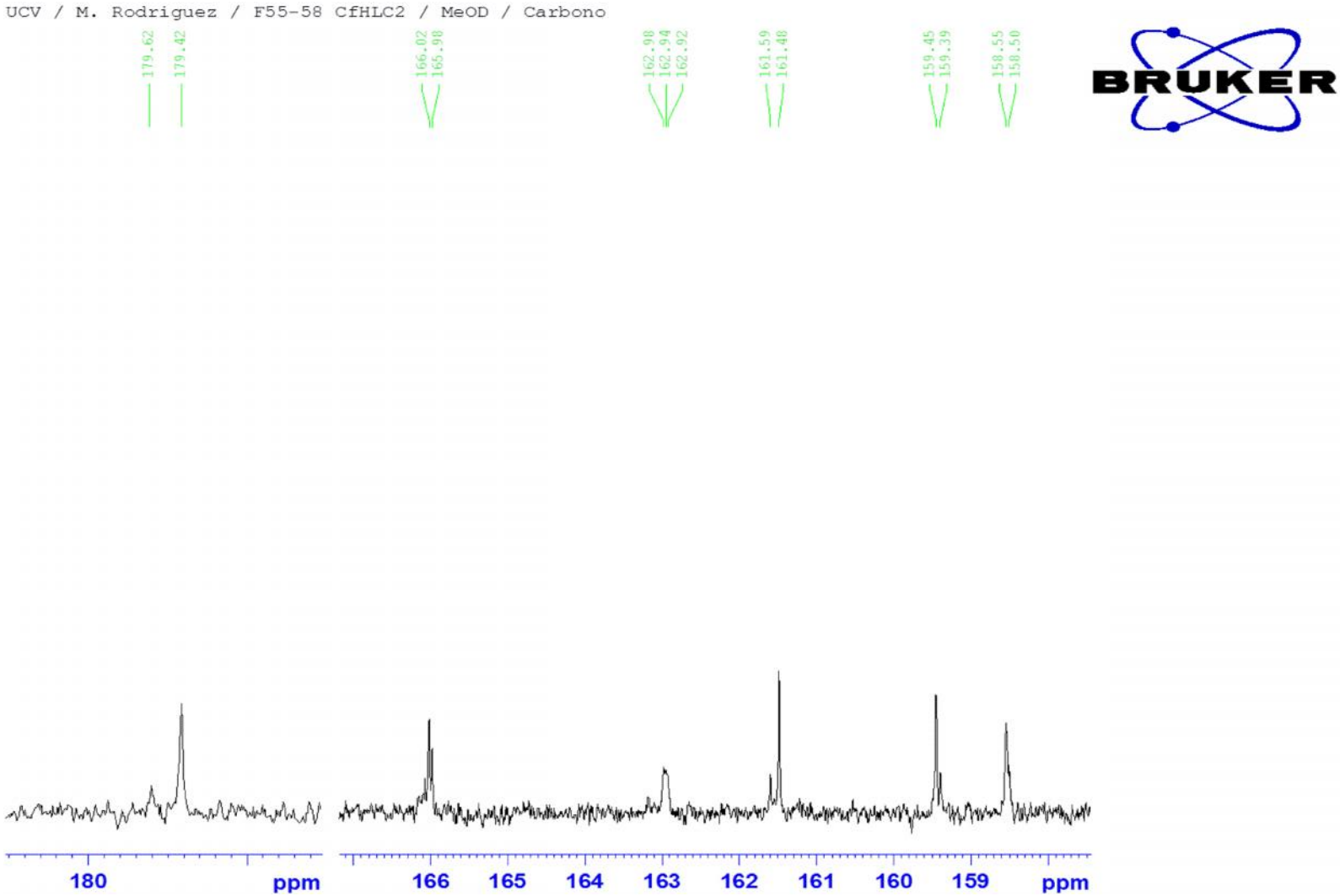
Espectro 56.- Ampliación entre 4,6-6,5 ppm del espectro RMN-^{1}H del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



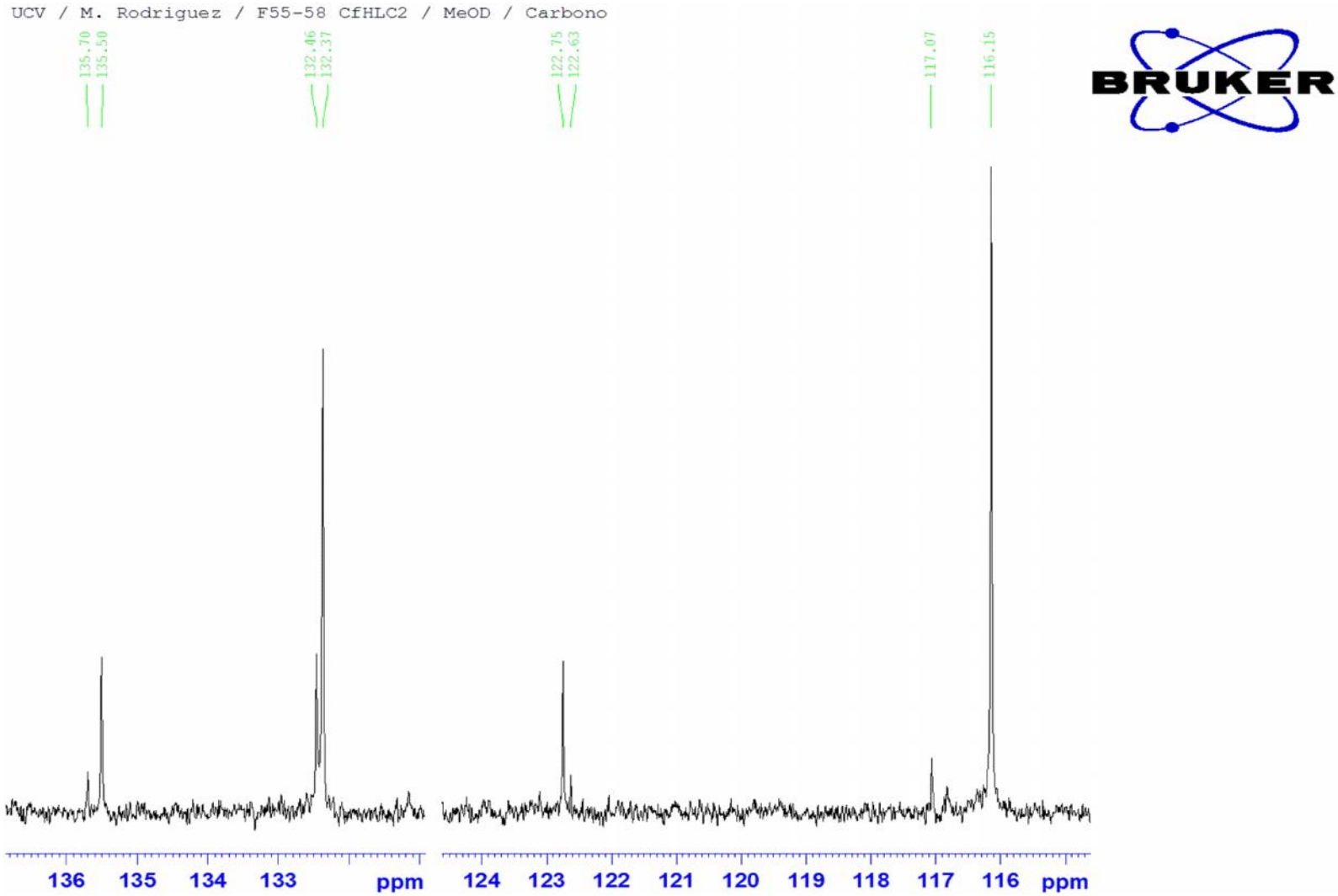
Espectro 57.- Ampliación entre 3,1-3,9 ppm del espectro RMN-^{1}H del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



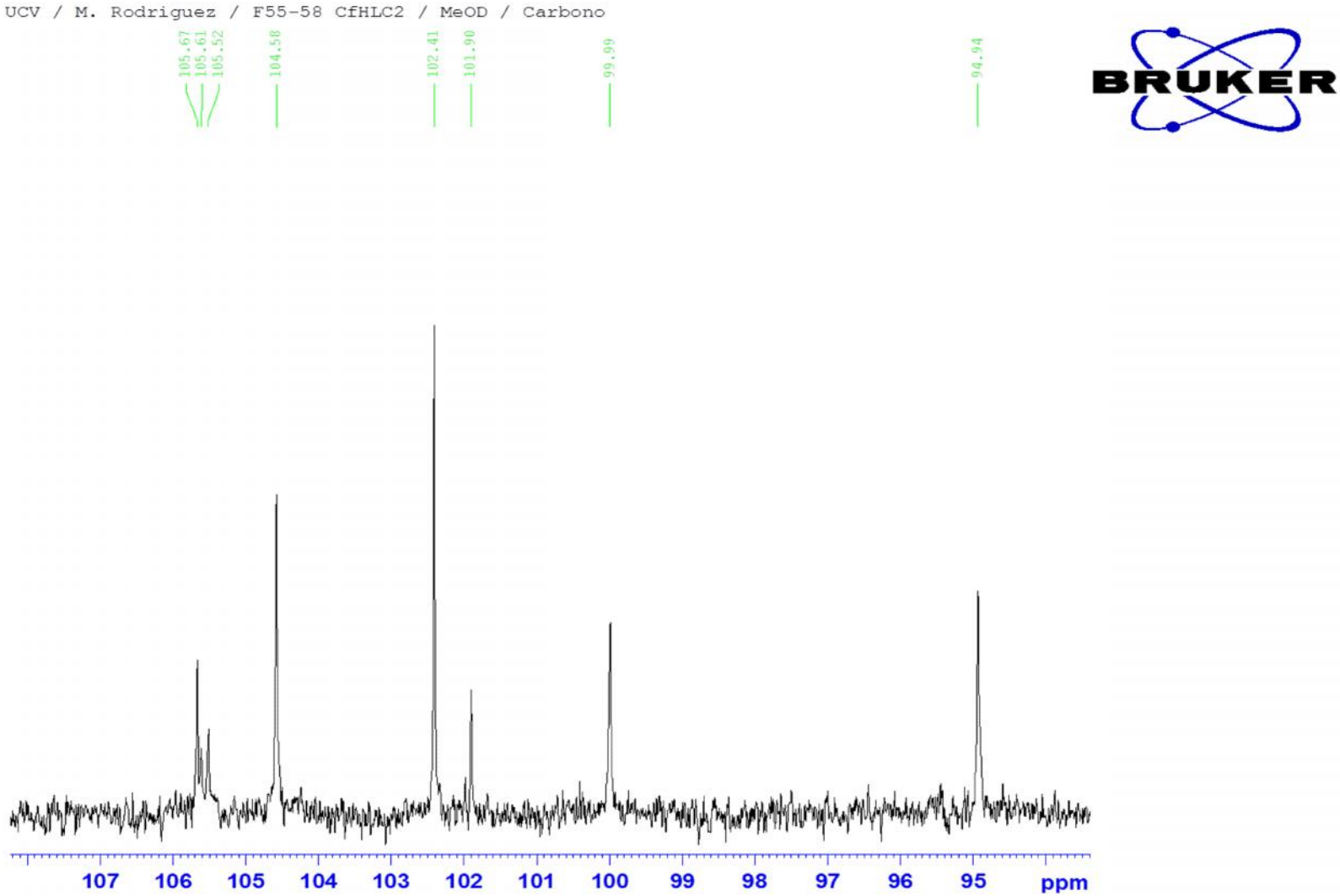
Espectro 58.- Espectro RMN-^{13}C del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



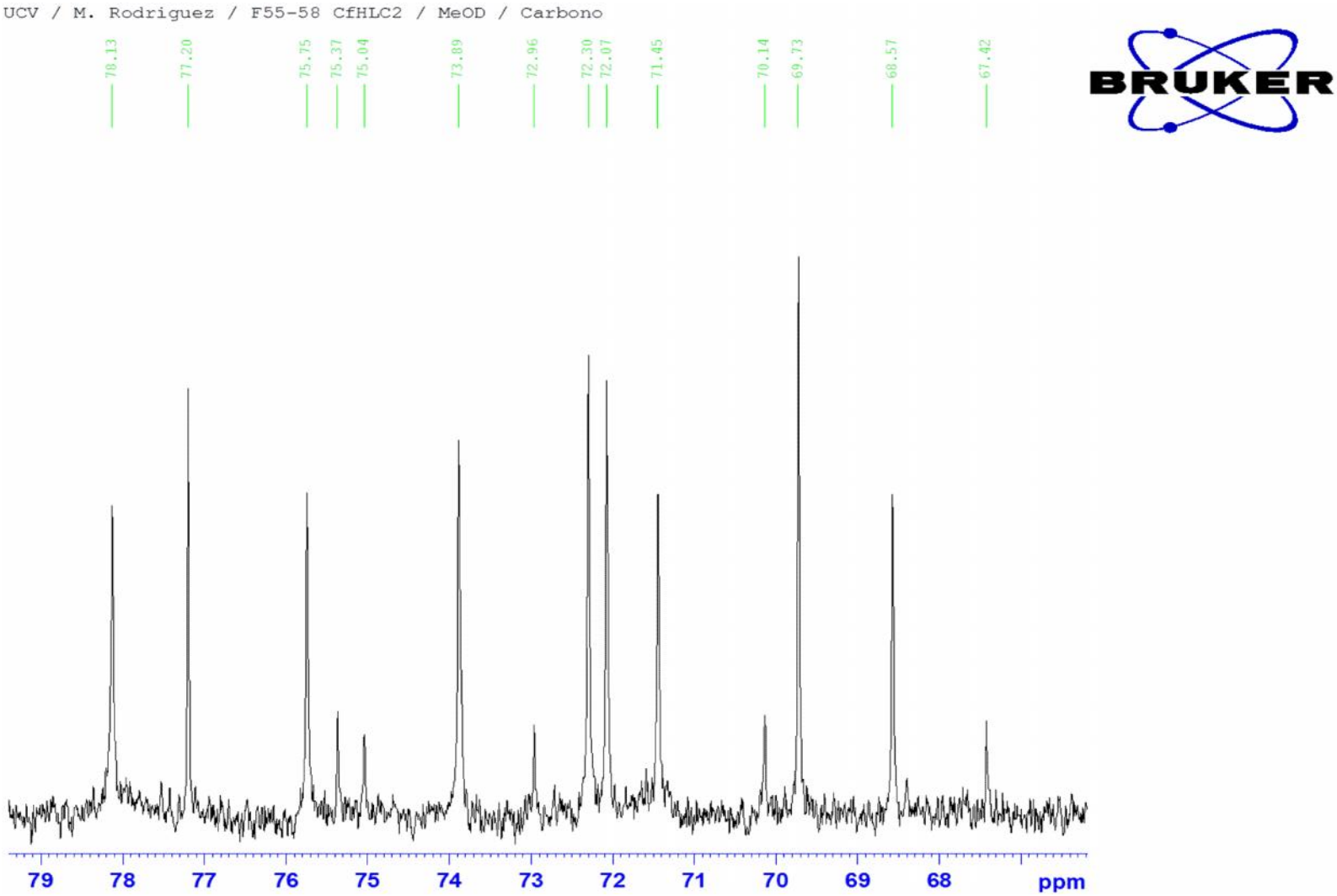
Espectro 59.- Ampliación entre 158-180 ppm del espectro RMN-^{13}C del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



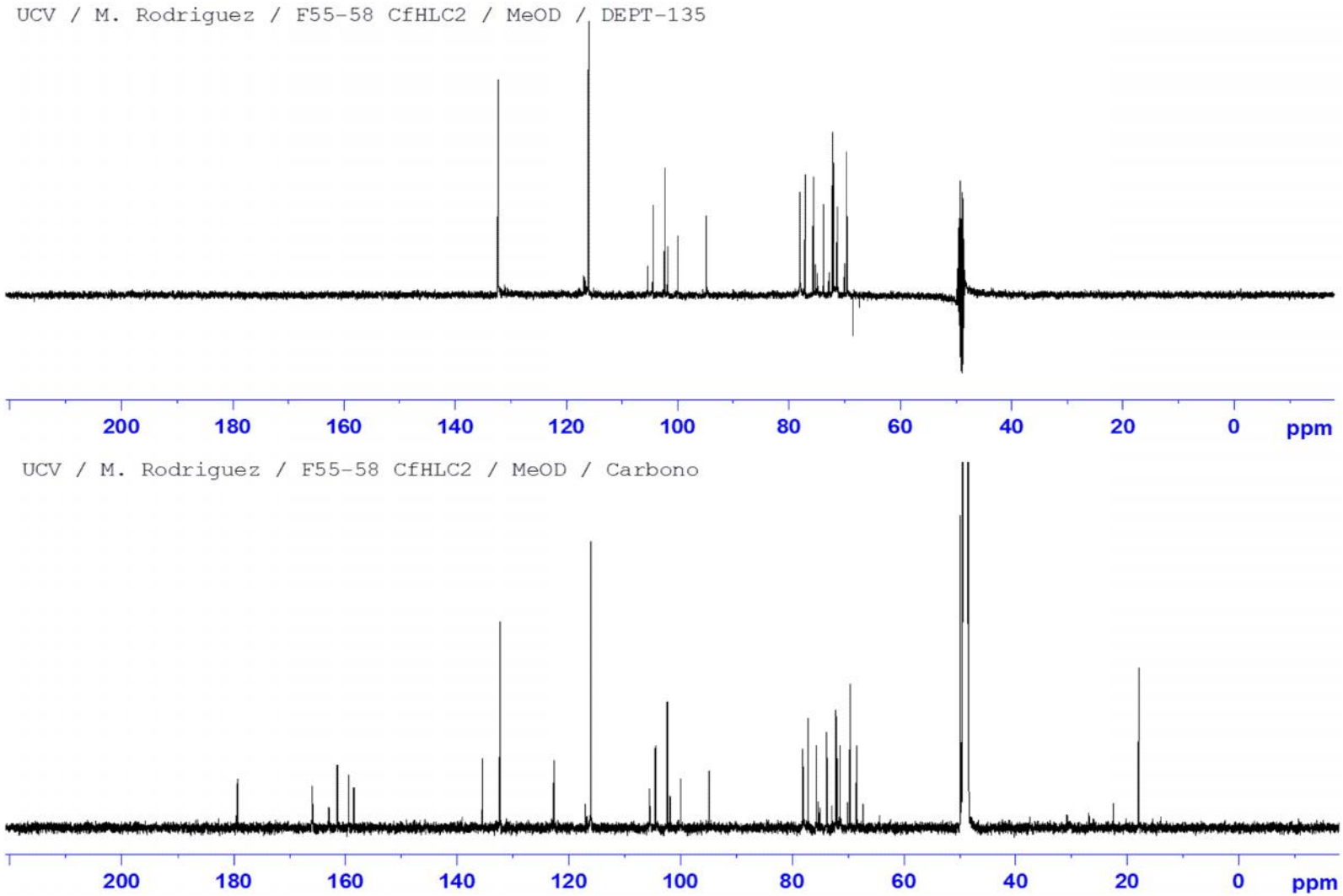
Espectro 60.- Ampliación entre 116-136 ppm del espectro RMN-^{13}C del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



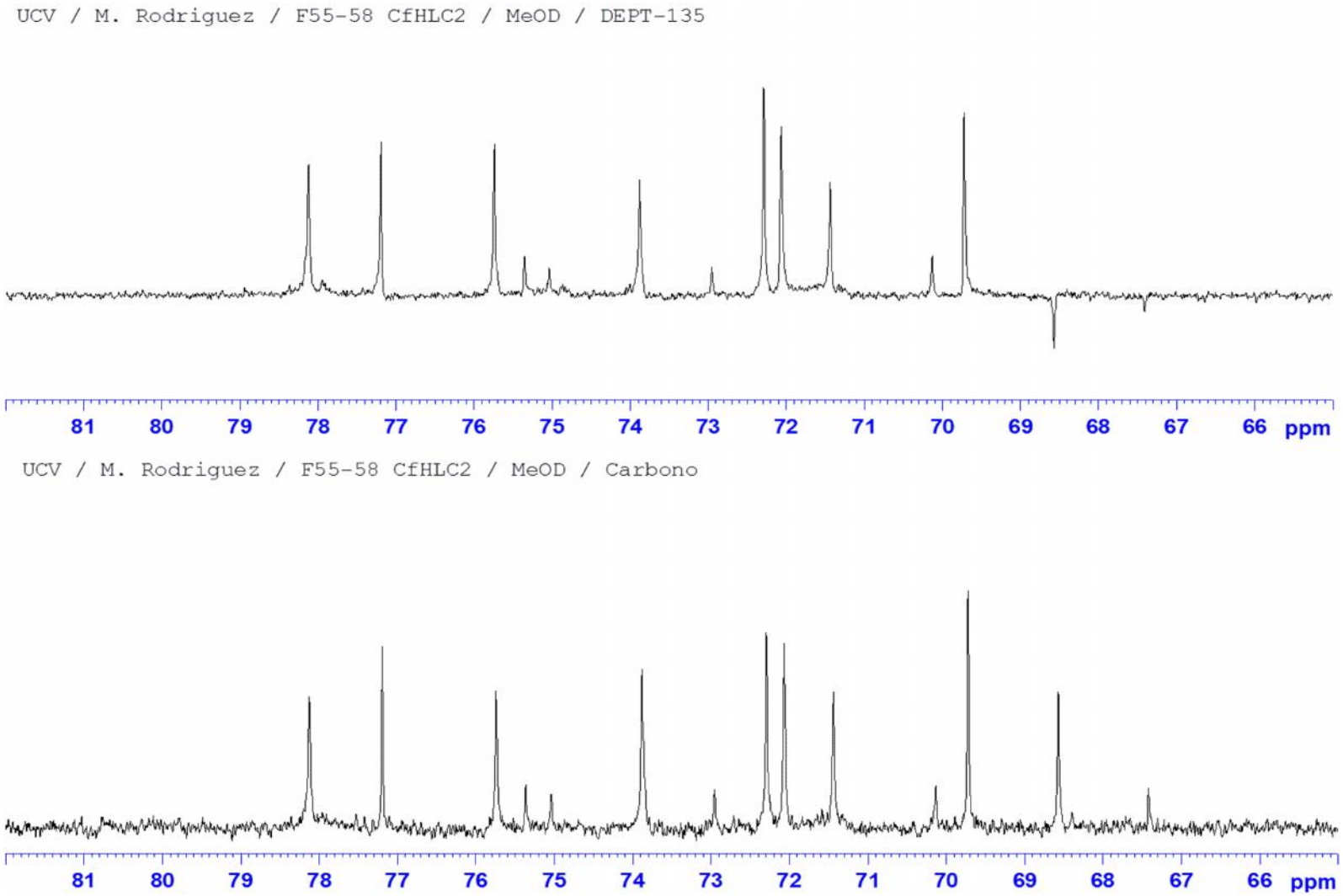
Espectro 61.- Ampliación entre 94-107 ppm del espectro RMN-^{13}C del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



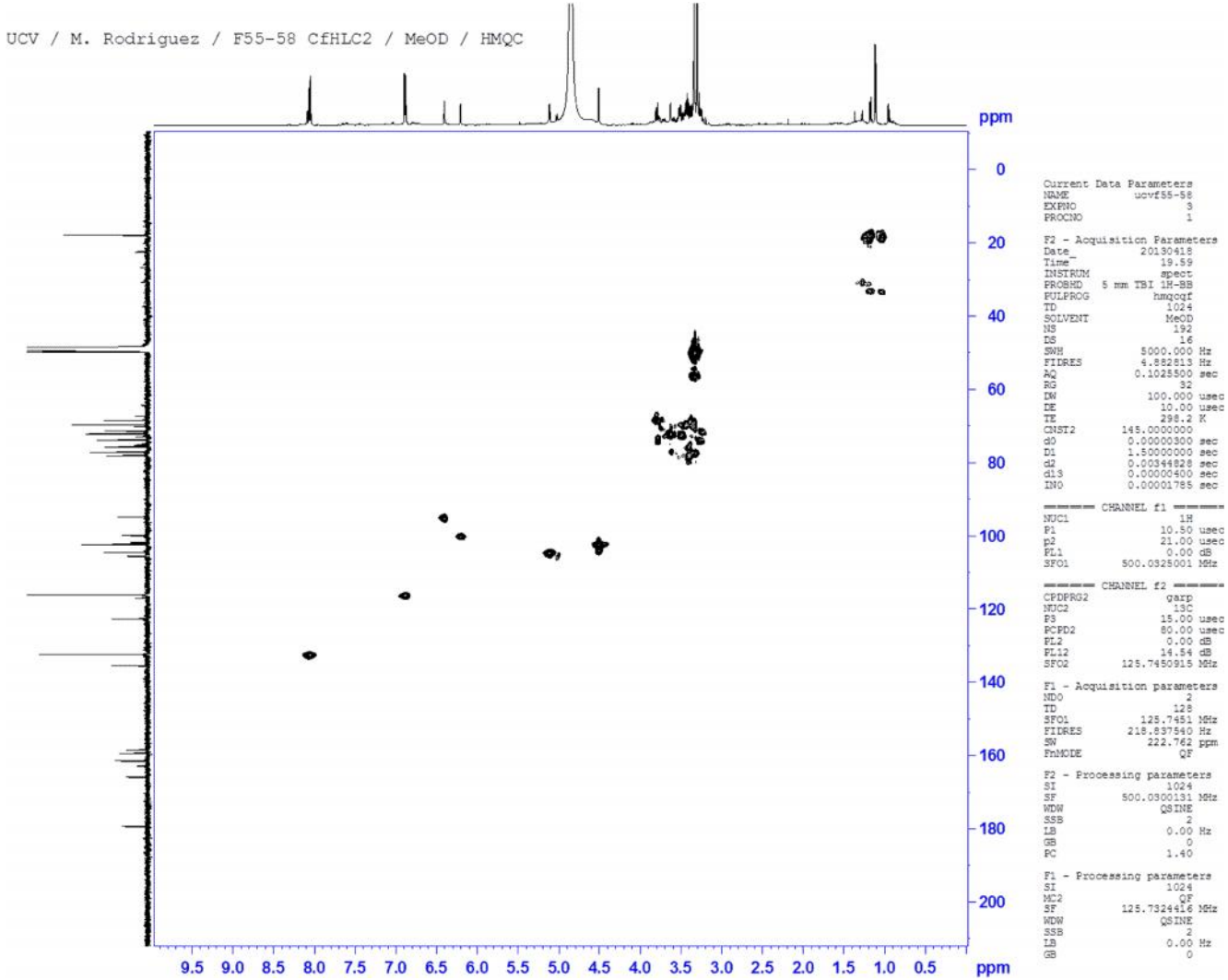
Espectro 62.- Ampliación entre 67-79 ppm del espectro RMN-^{13}C del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



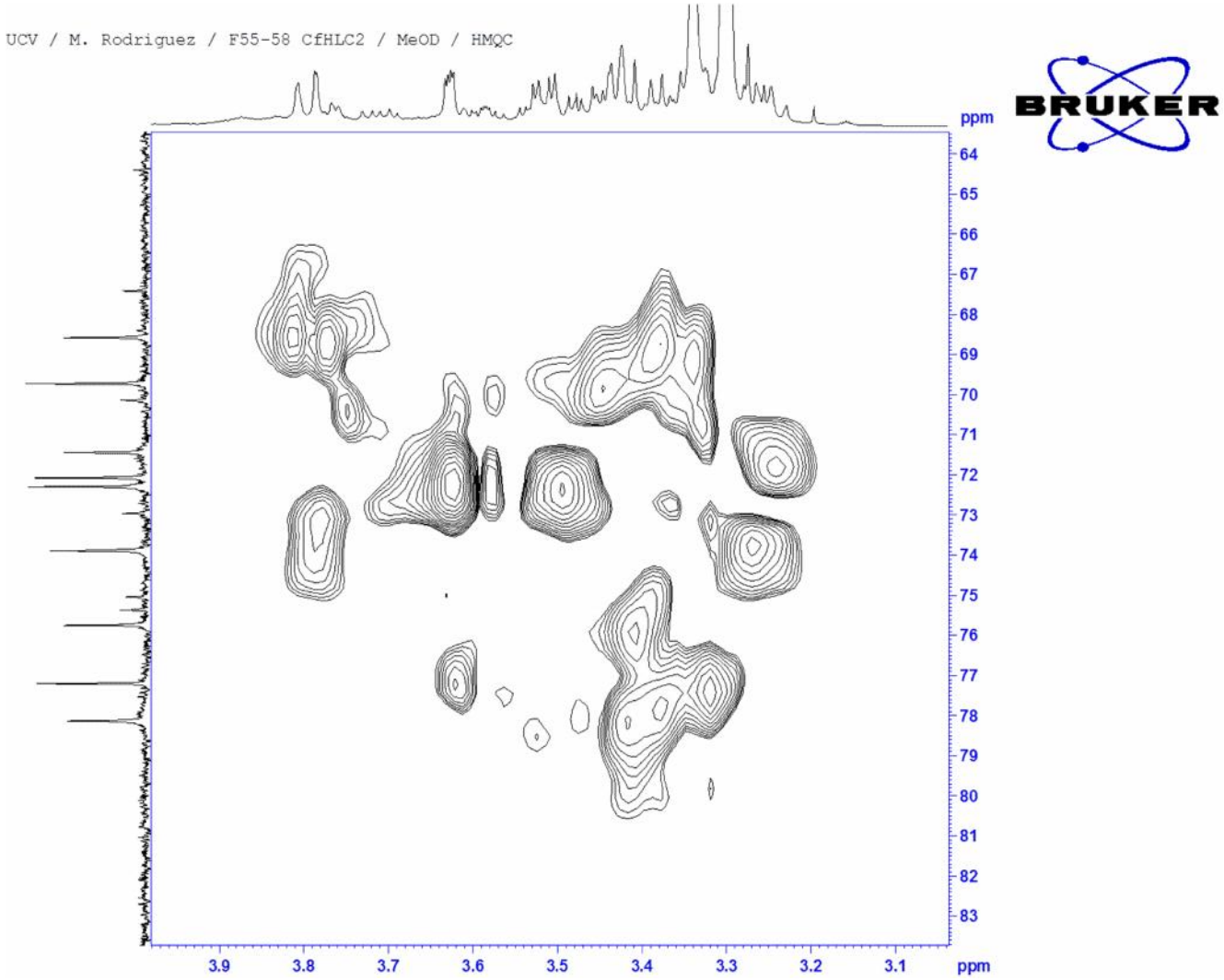
Espectro 63.- Espectro DEPT-135 del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido



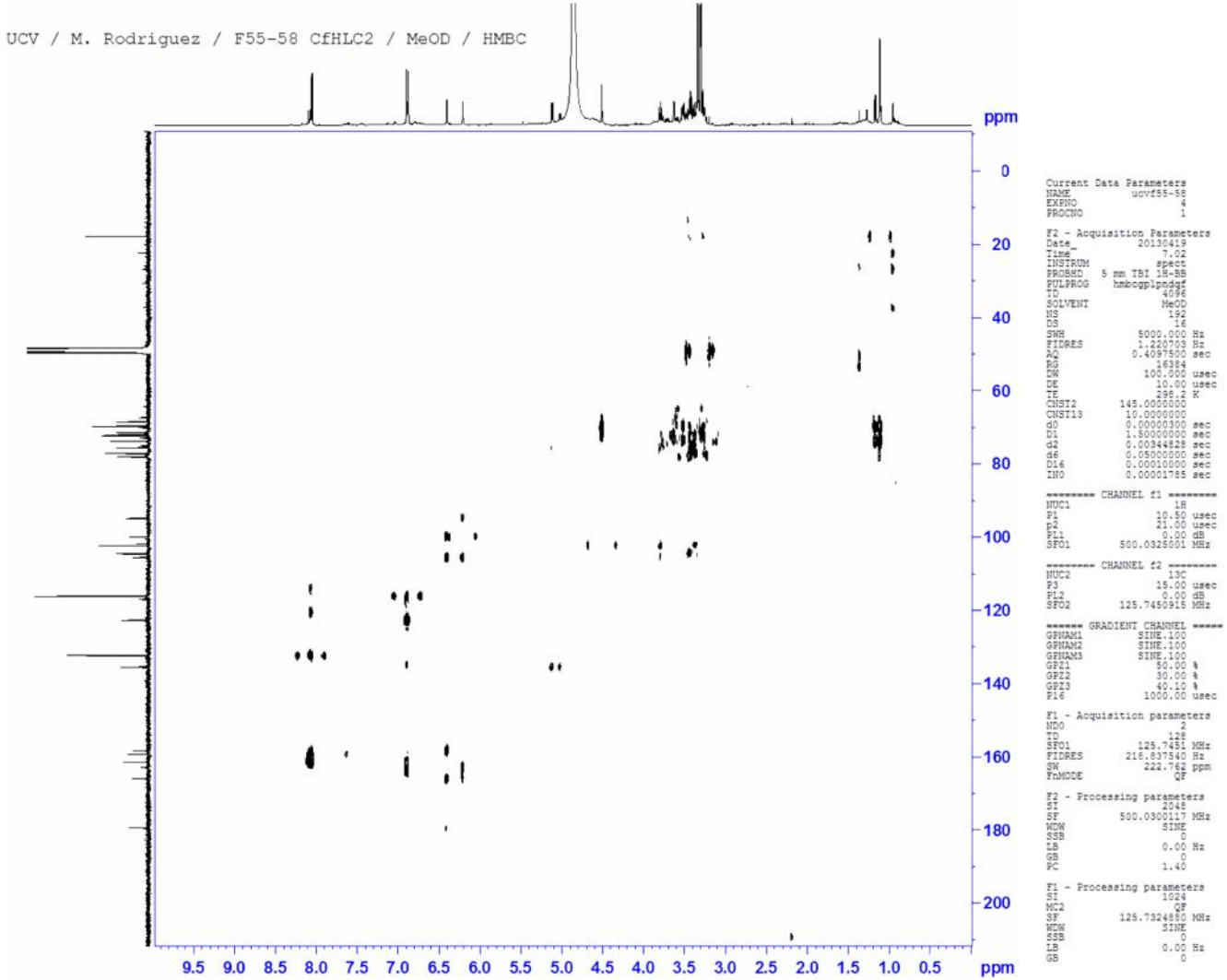
Espectro 64.- Ampliación entre 66-81 ppm del espectro DEPT-135 del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido)



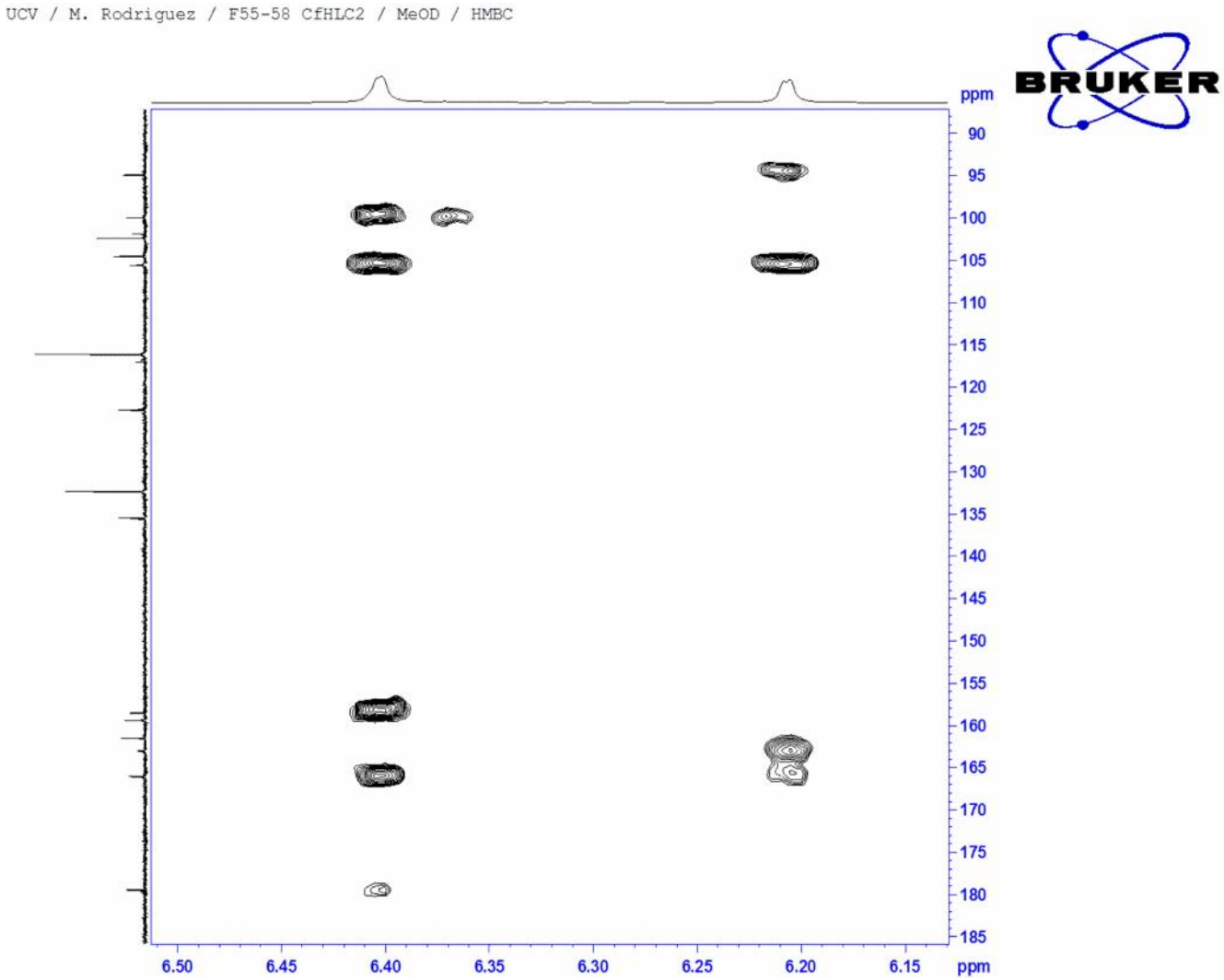
Espectro 65. Espectro HMQC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



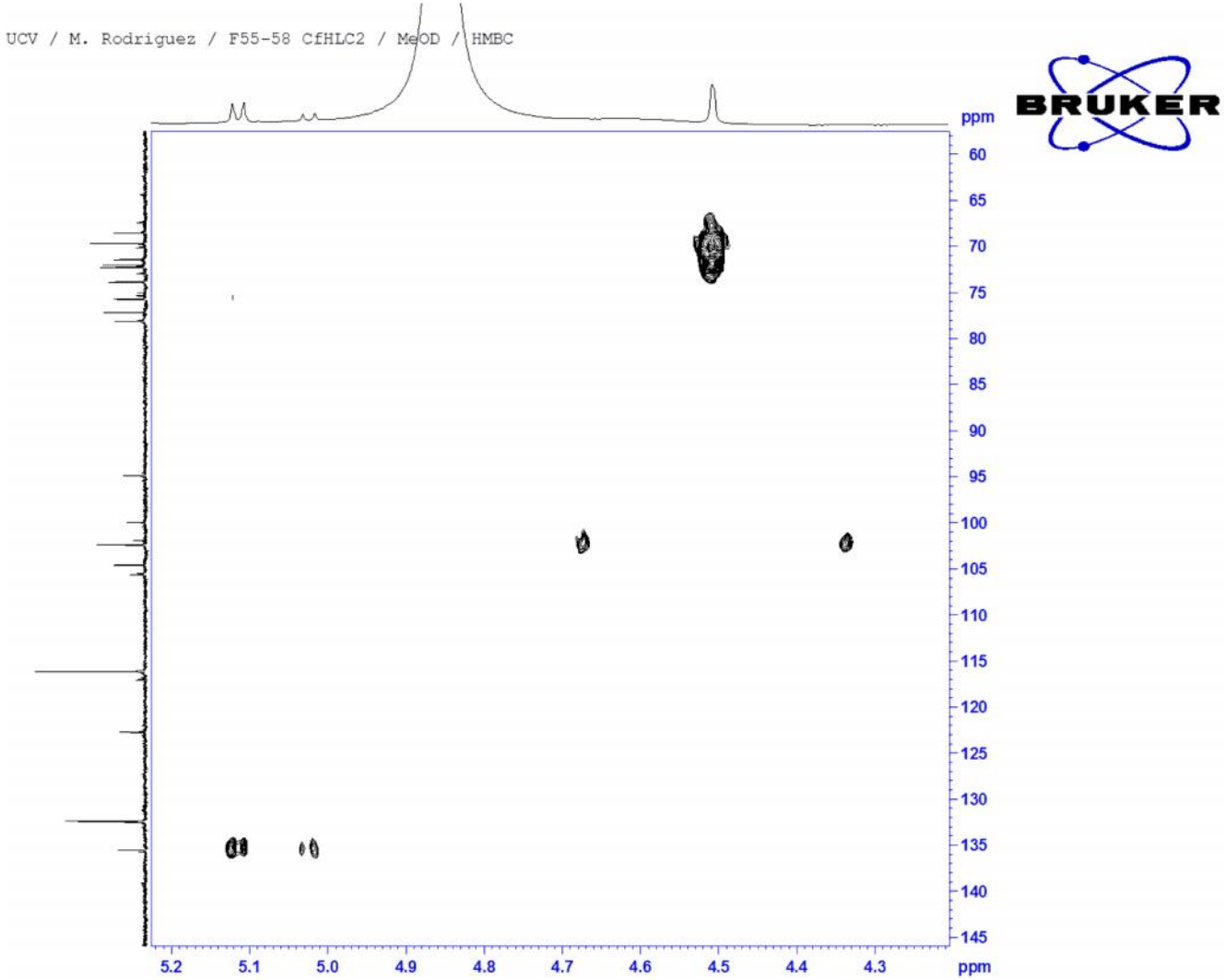
Espectro 66. Ampliación entre 3,1 y 3,9 ppm en F2 del espectro HMQC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



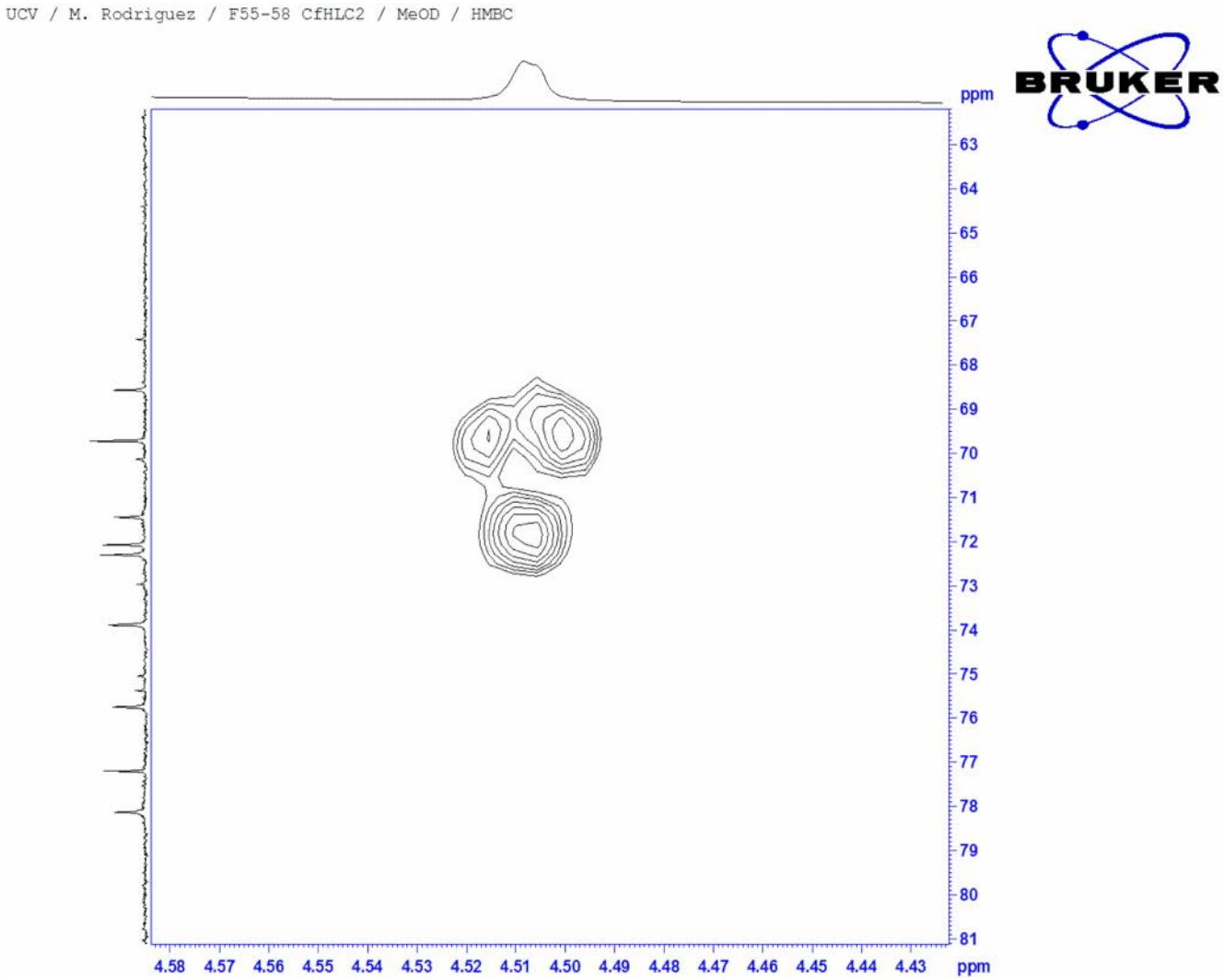
Espectro 67. Espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



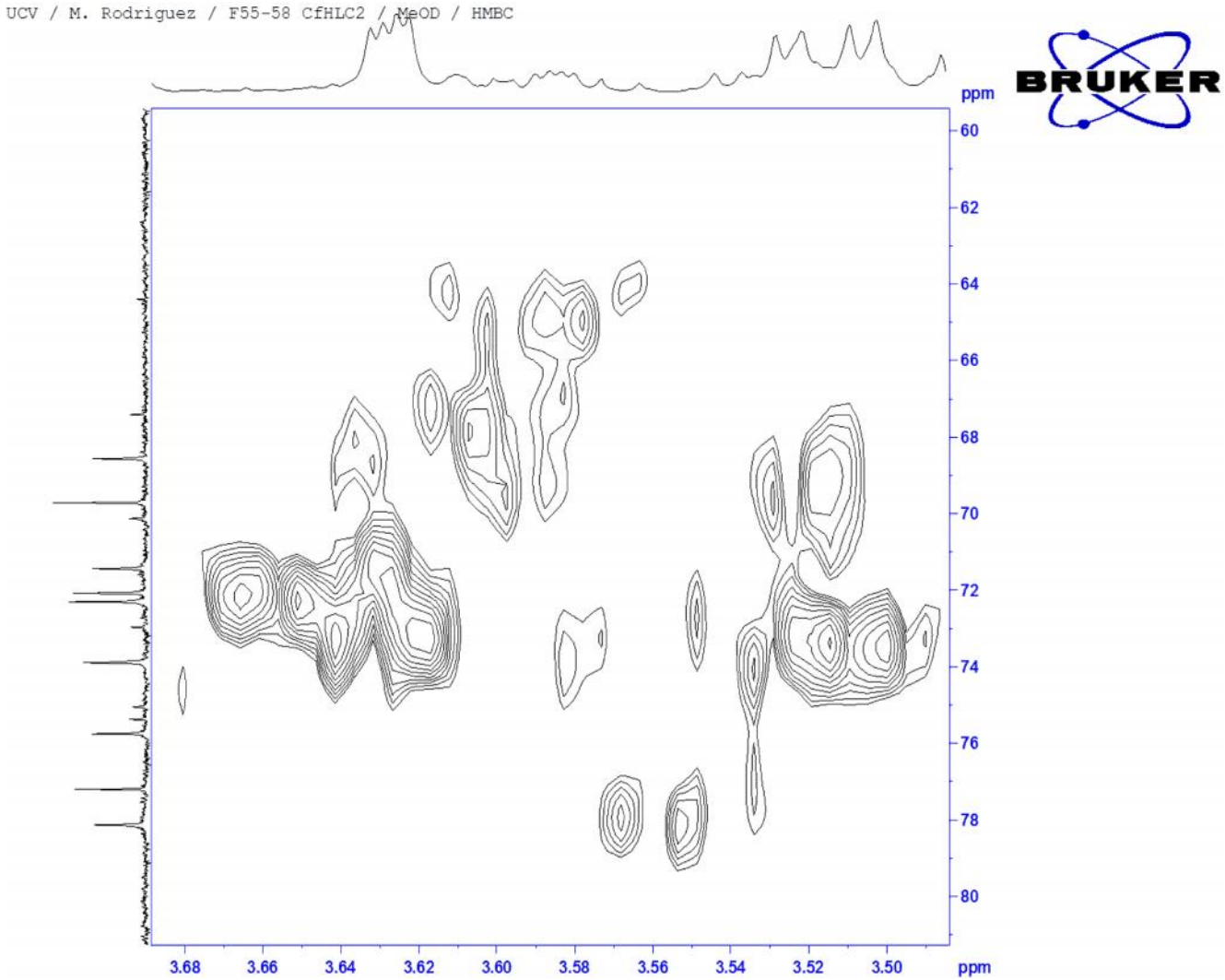
Espectro 68. Ampliación entre 6,1-6,5 ppm en F2 del espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



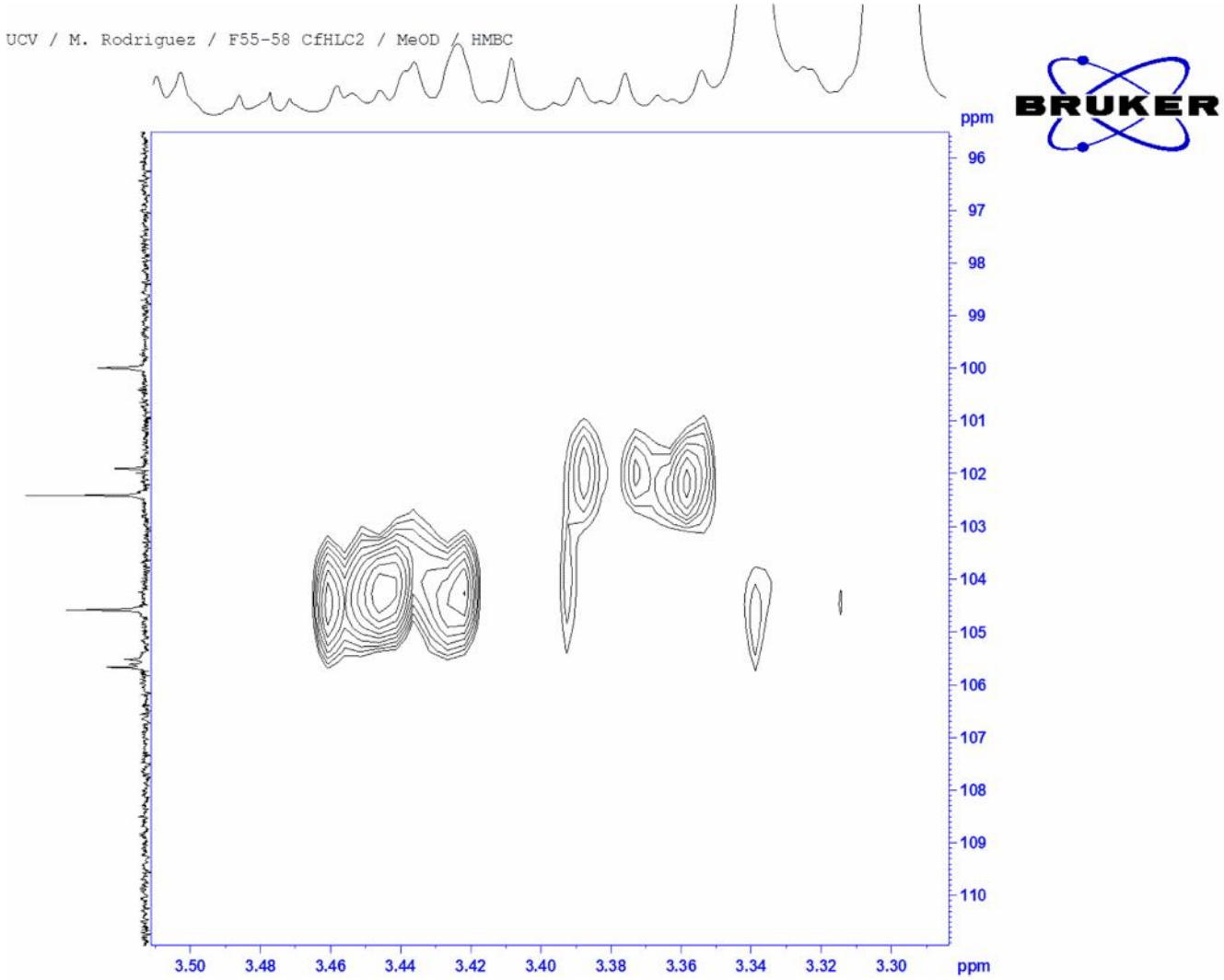
Espectro 69. Ampliación entre 4,0-5,2 ppm en F2 del espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



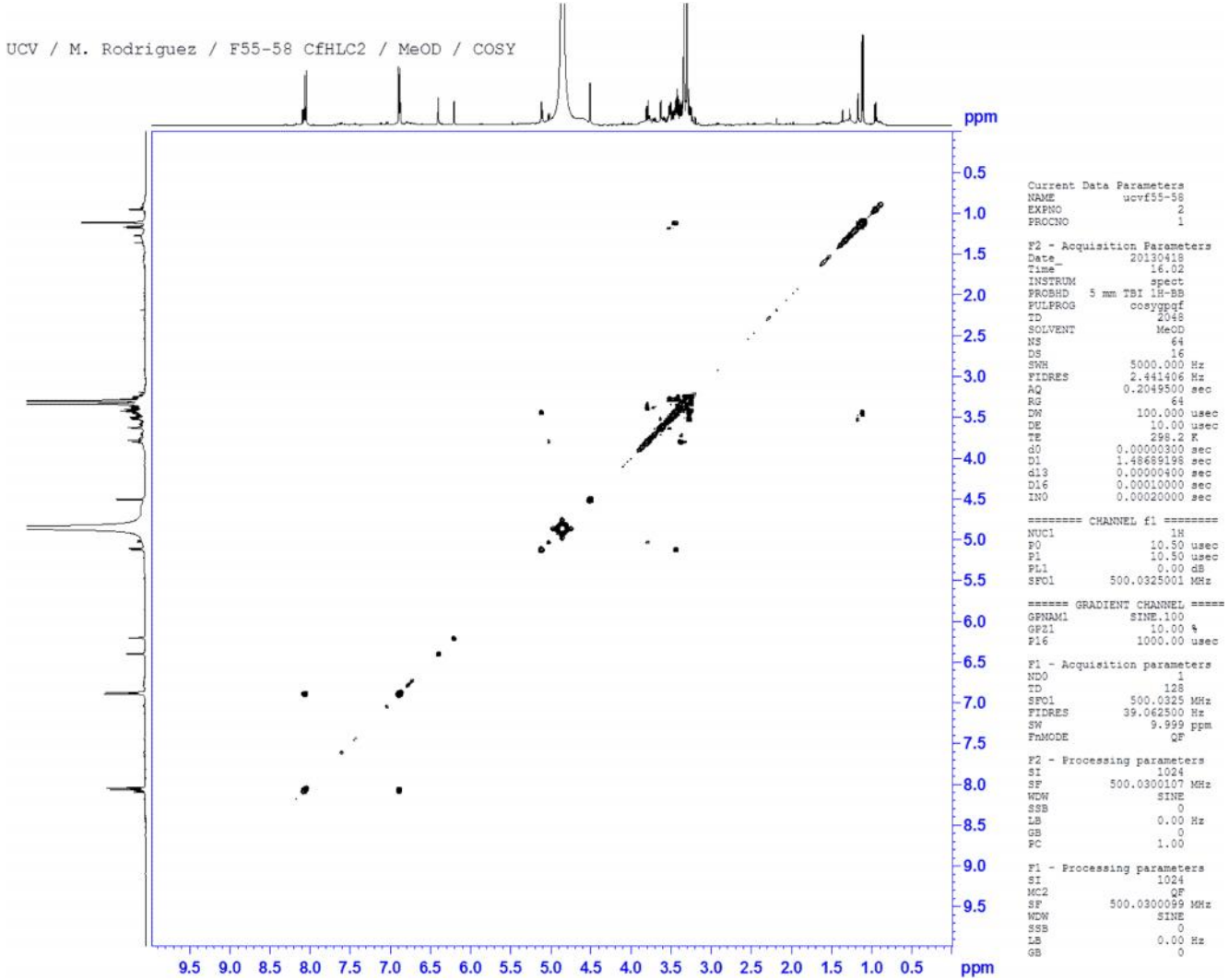
Espectro 70. Ampliación entre 4,4-4,6 ppm en F2 del espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



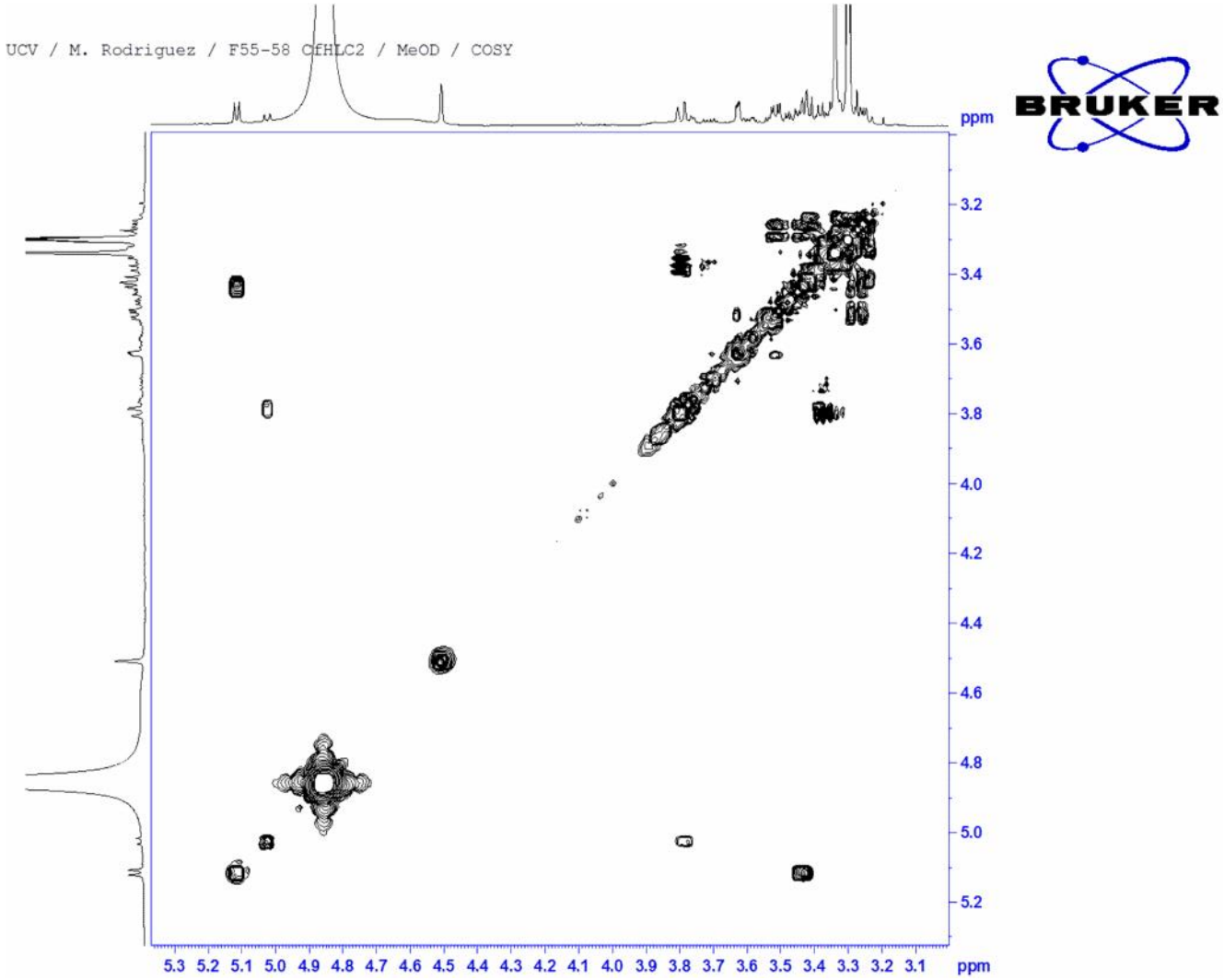
Espectro 71.- Ampliación entre 3,3-3,5 ppm en F2 del espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



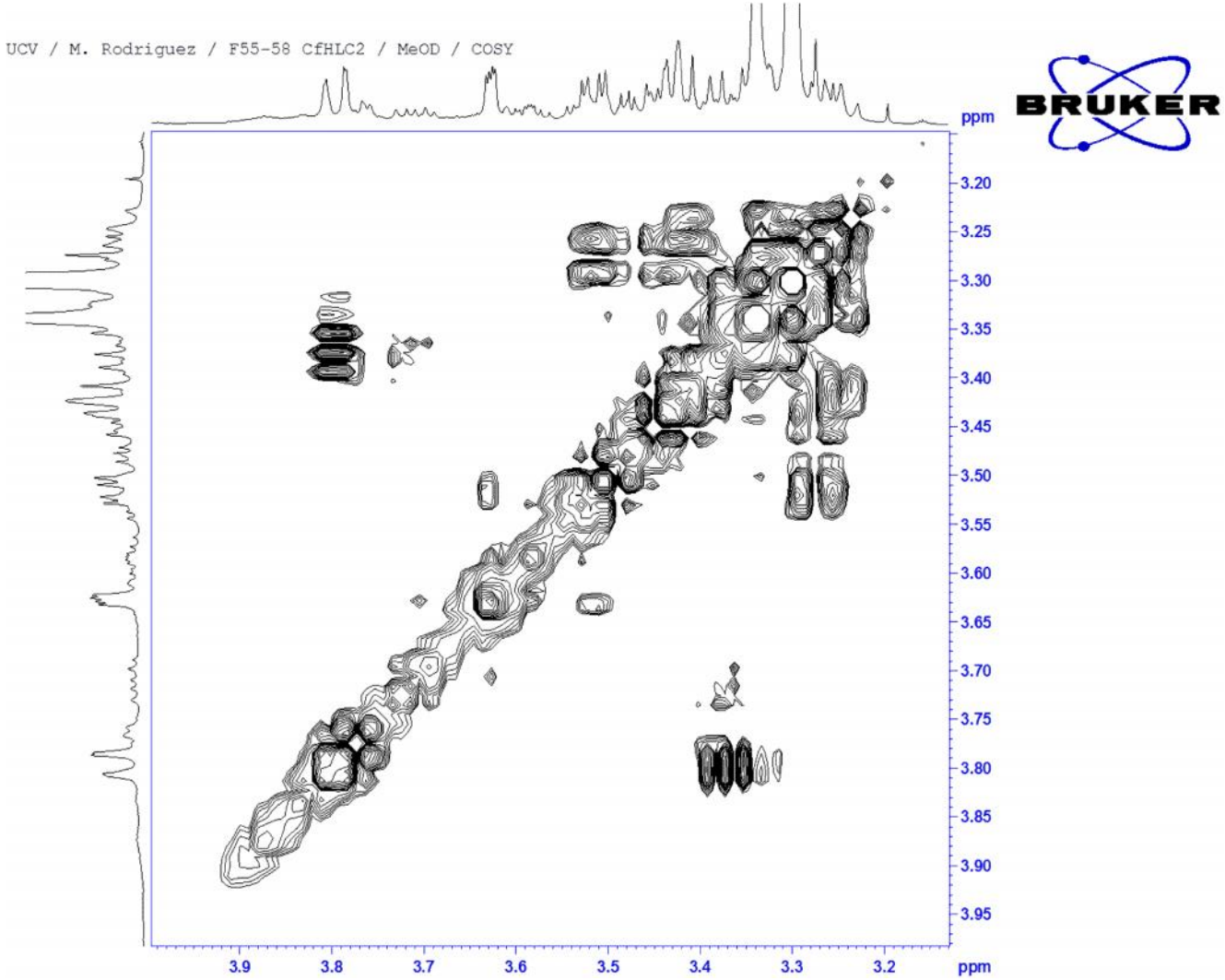
Espectro 72.- Ampliación entre 3,3-3,5 ppm en F2 del espectro HMBC del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



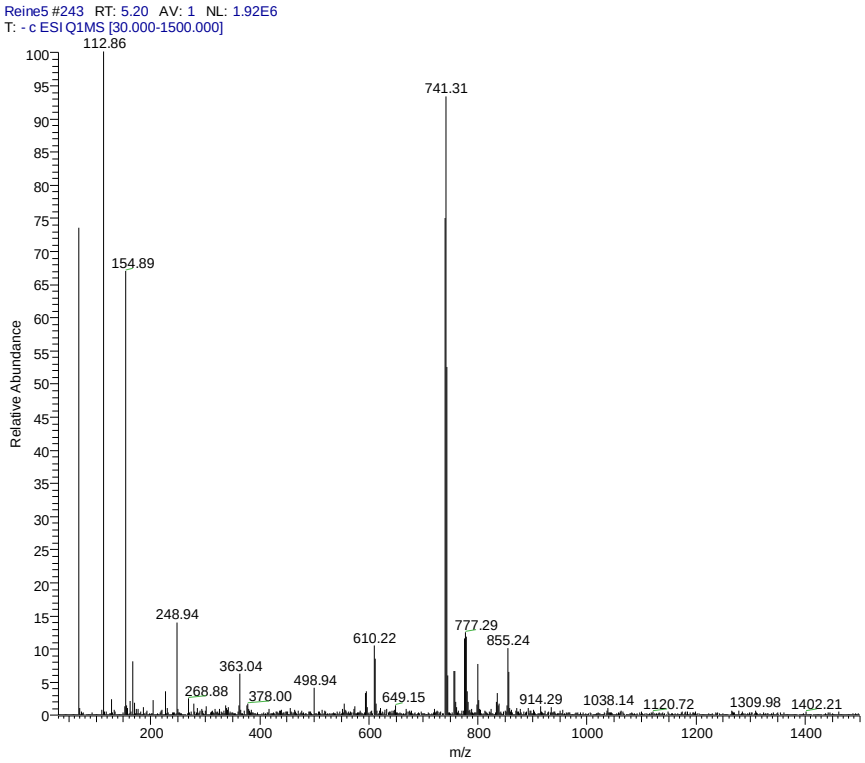
Espectro 73. Espectro COSY del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



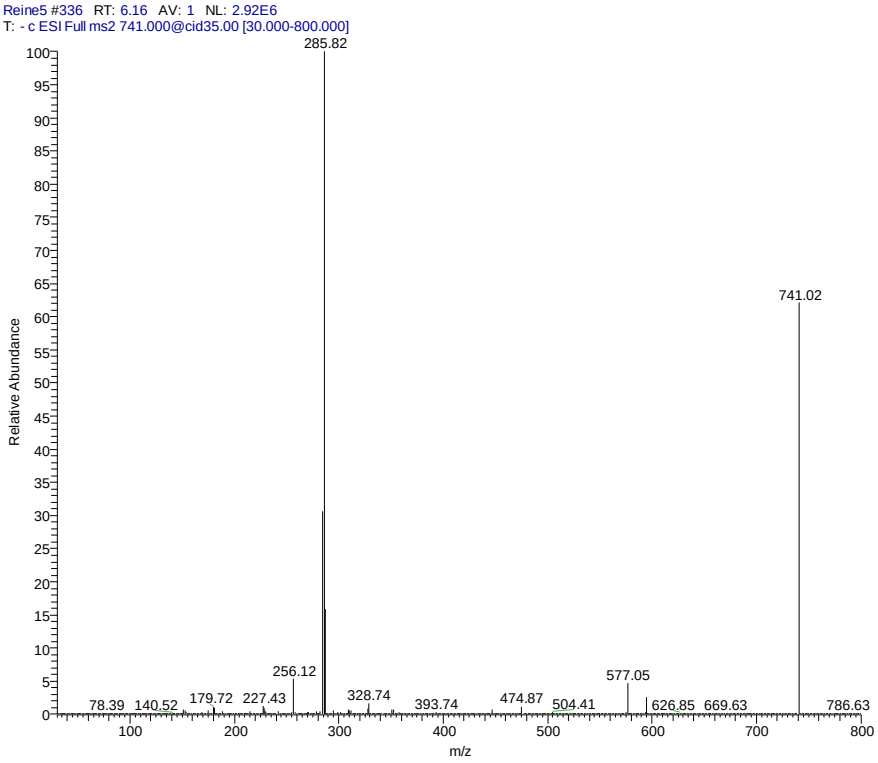
Espectro 74. Ampliación entre 3,1-3,5ppm del espectro COSY del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



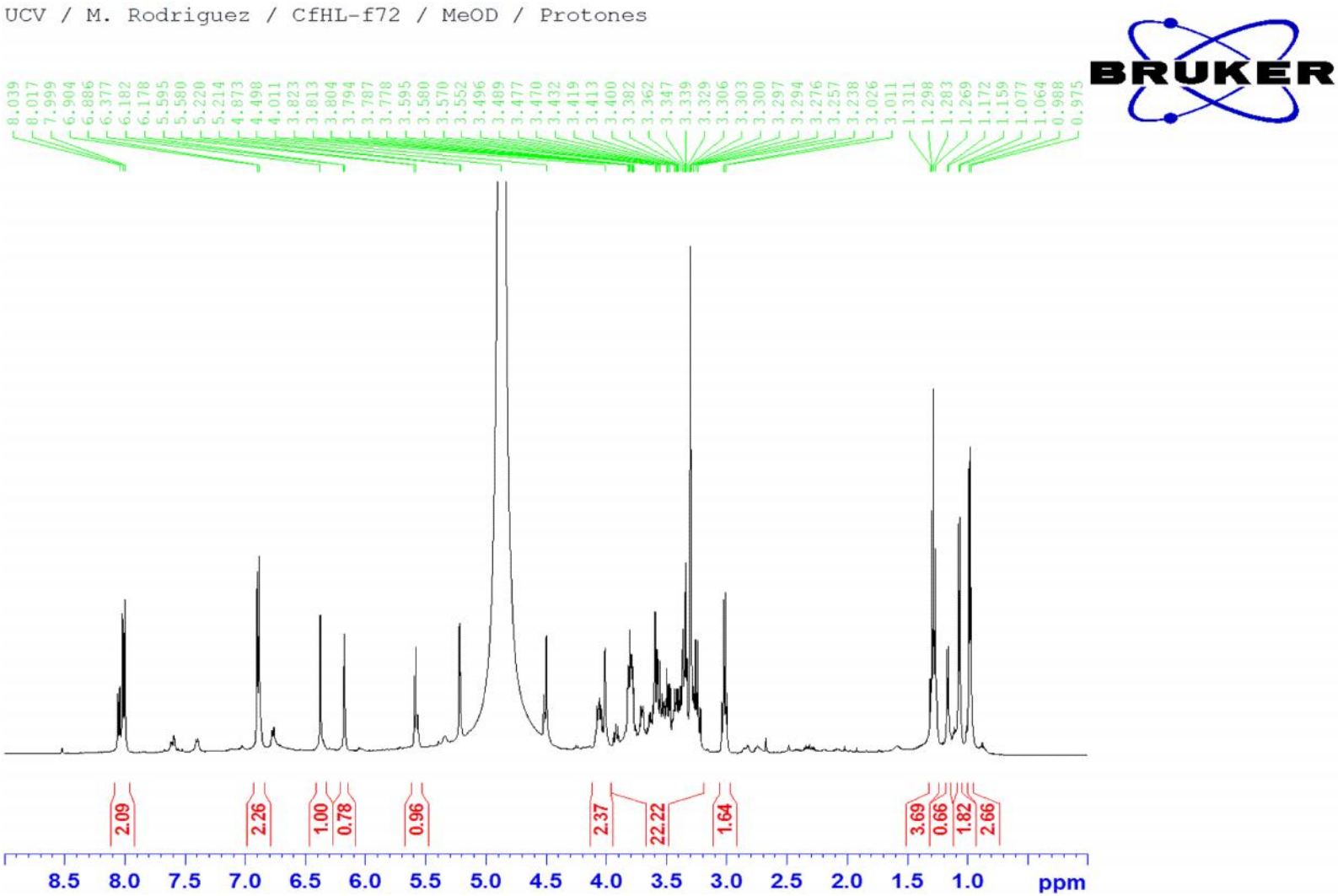
Espectro 75. Ampliación entre 3,2-3,9 ppm del espectro COSY del compuesto CfH-1 (Kaempferol-3-*O*-rutinósido).



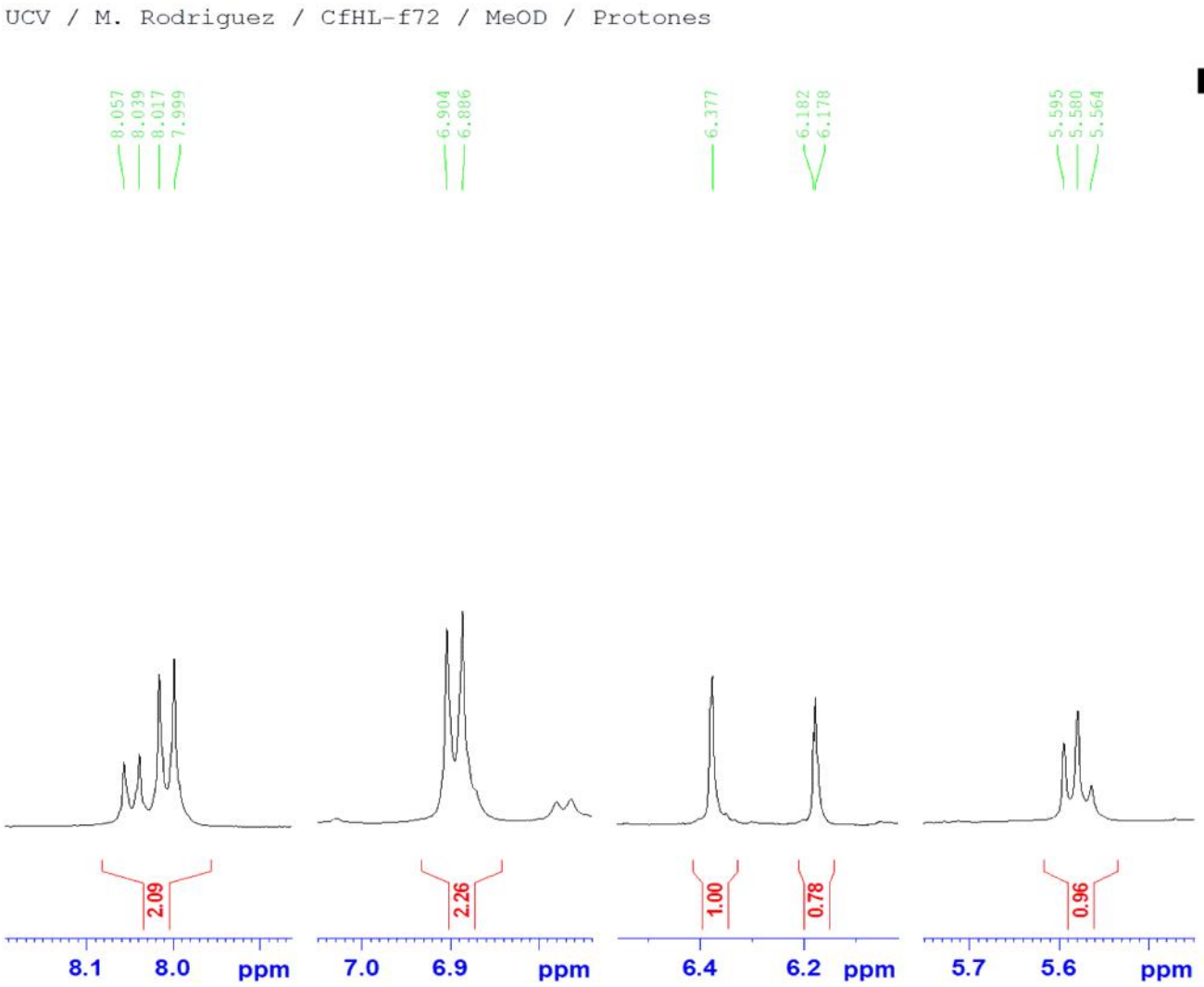
Espectro 76 . EM del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)-rutinósido).



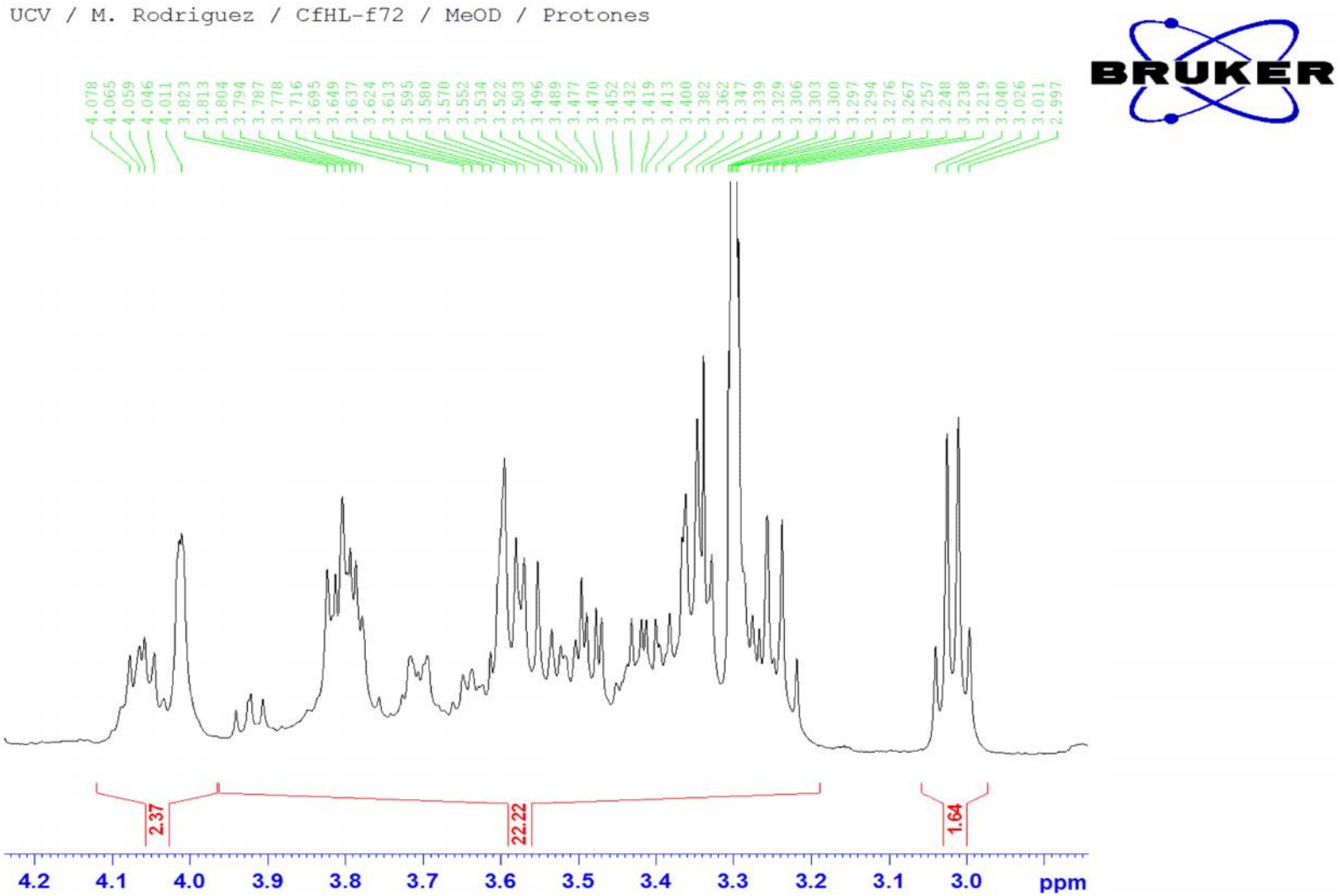
Espectro 77. EM-EM del ión 741 uma del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)-rutinósido).



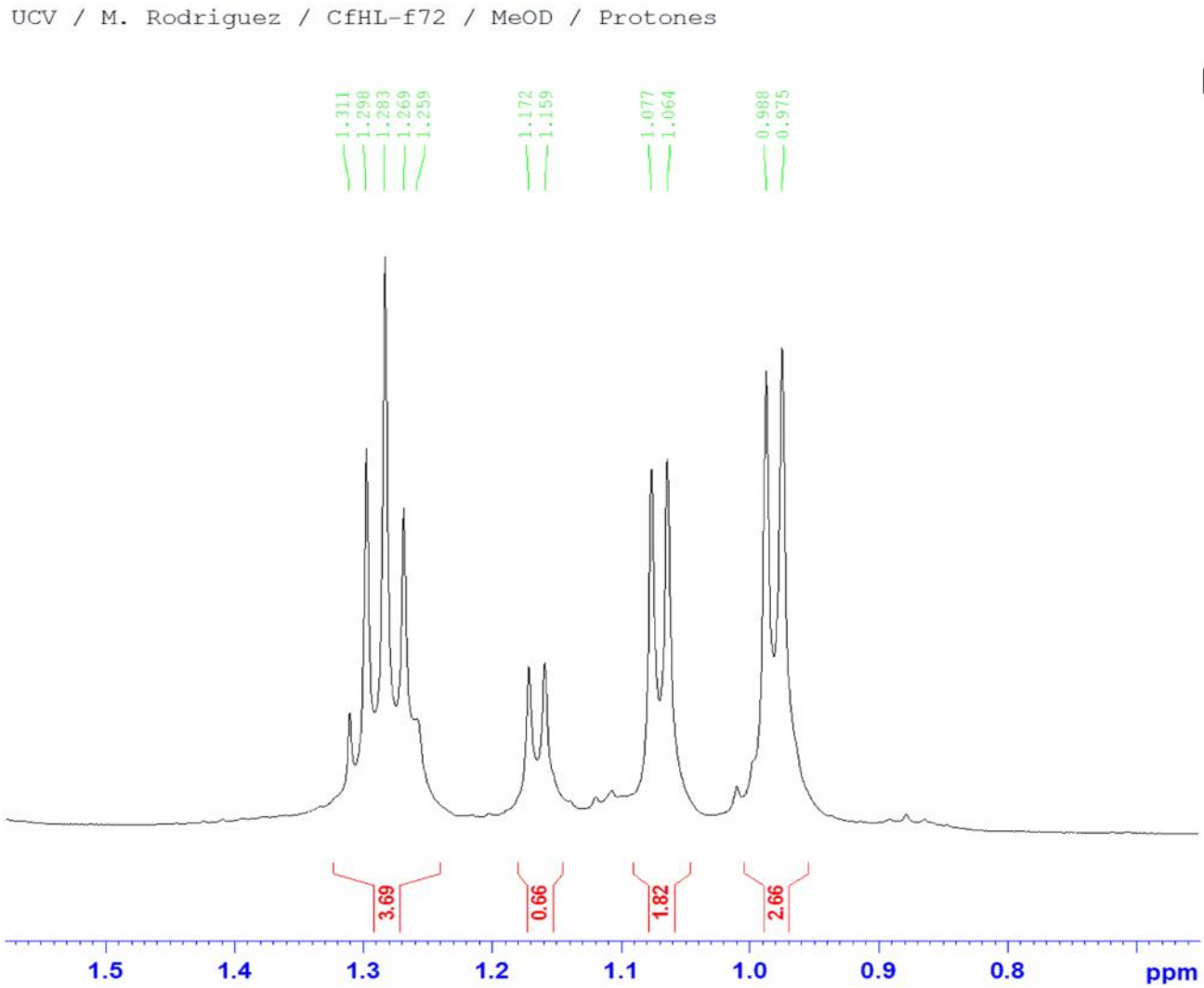
Espectro 78.- Espectro RMN-^{1}H del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



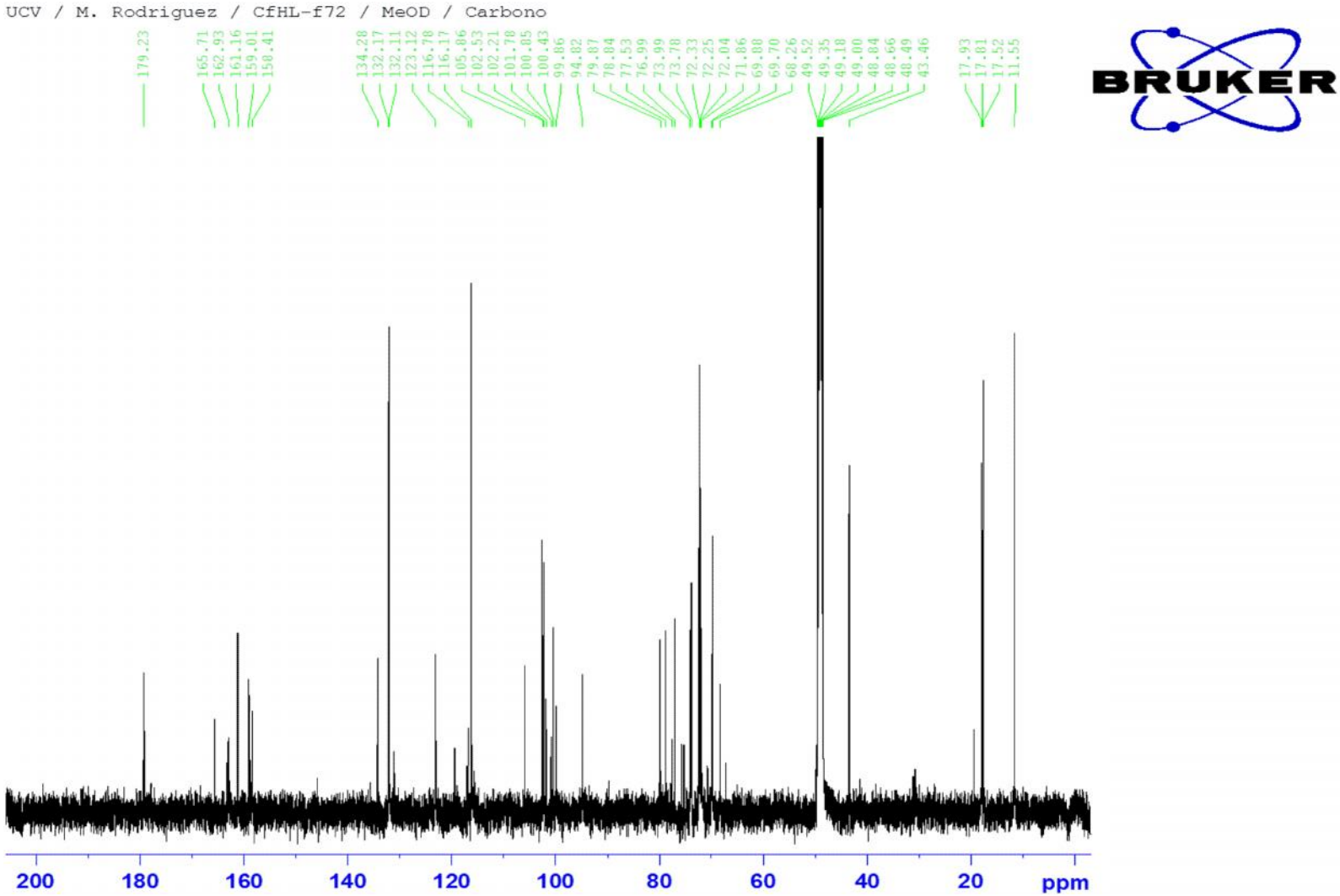
Espectro 79- Ampliación entre 5,5-8,2 ppm del espectro RMN-^{1}H del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)



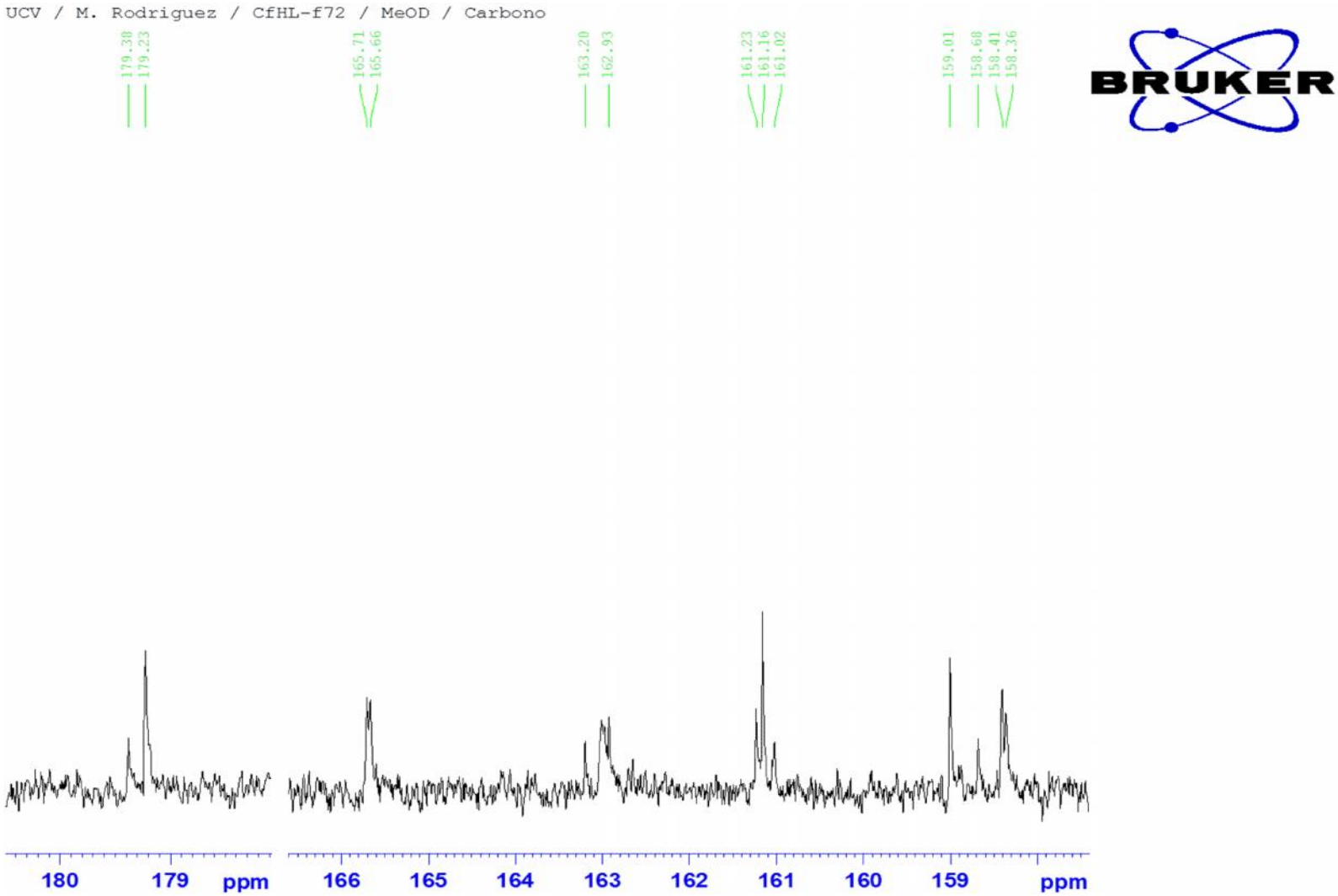
Espectro 80.- Ampliación entre 2,9-4,2 ppm del espectro RMN-^{1}H del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



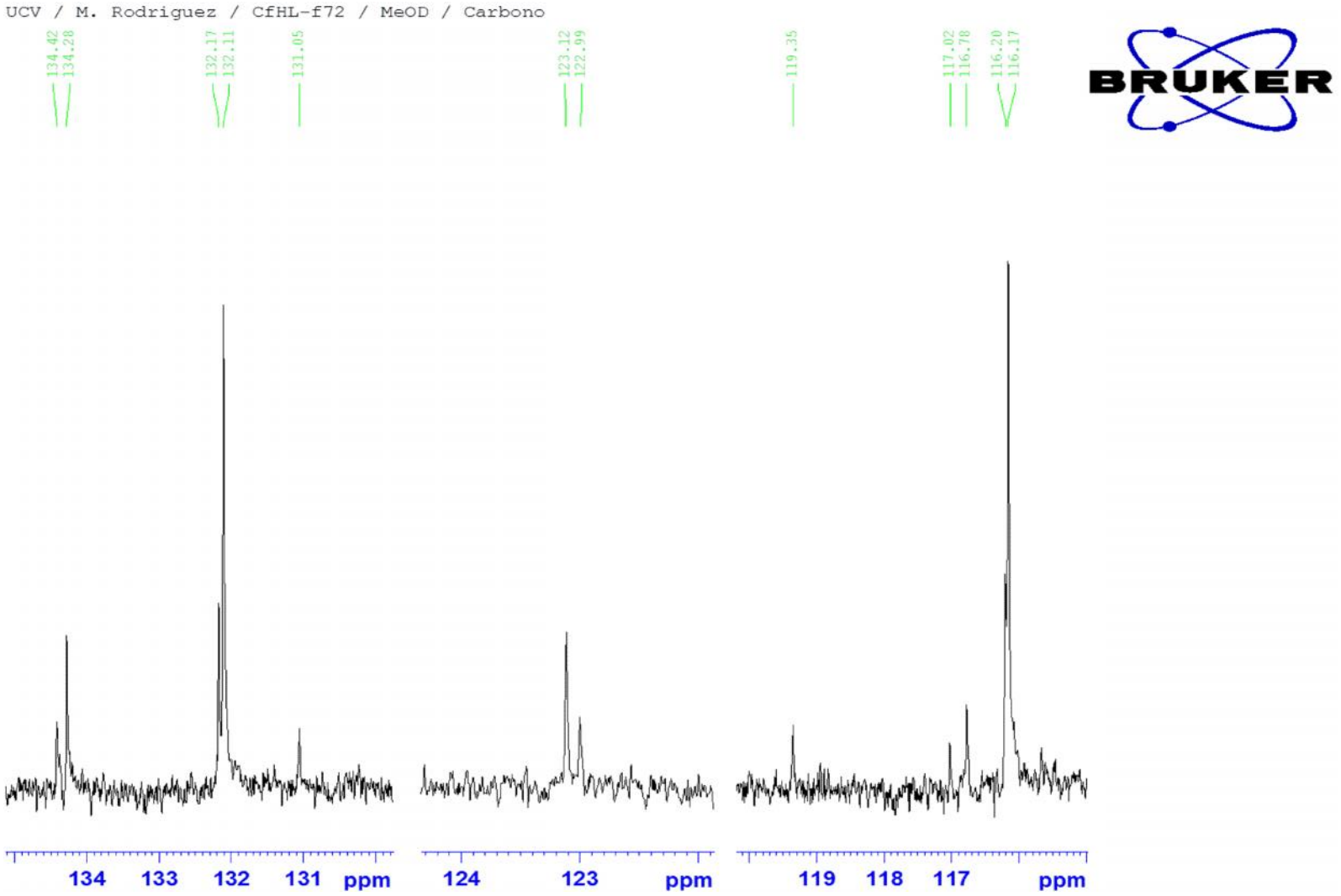
Espectro 81.- Ampliación entre 0,8-1,5 ppm del espectro RMN-^{1}H del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



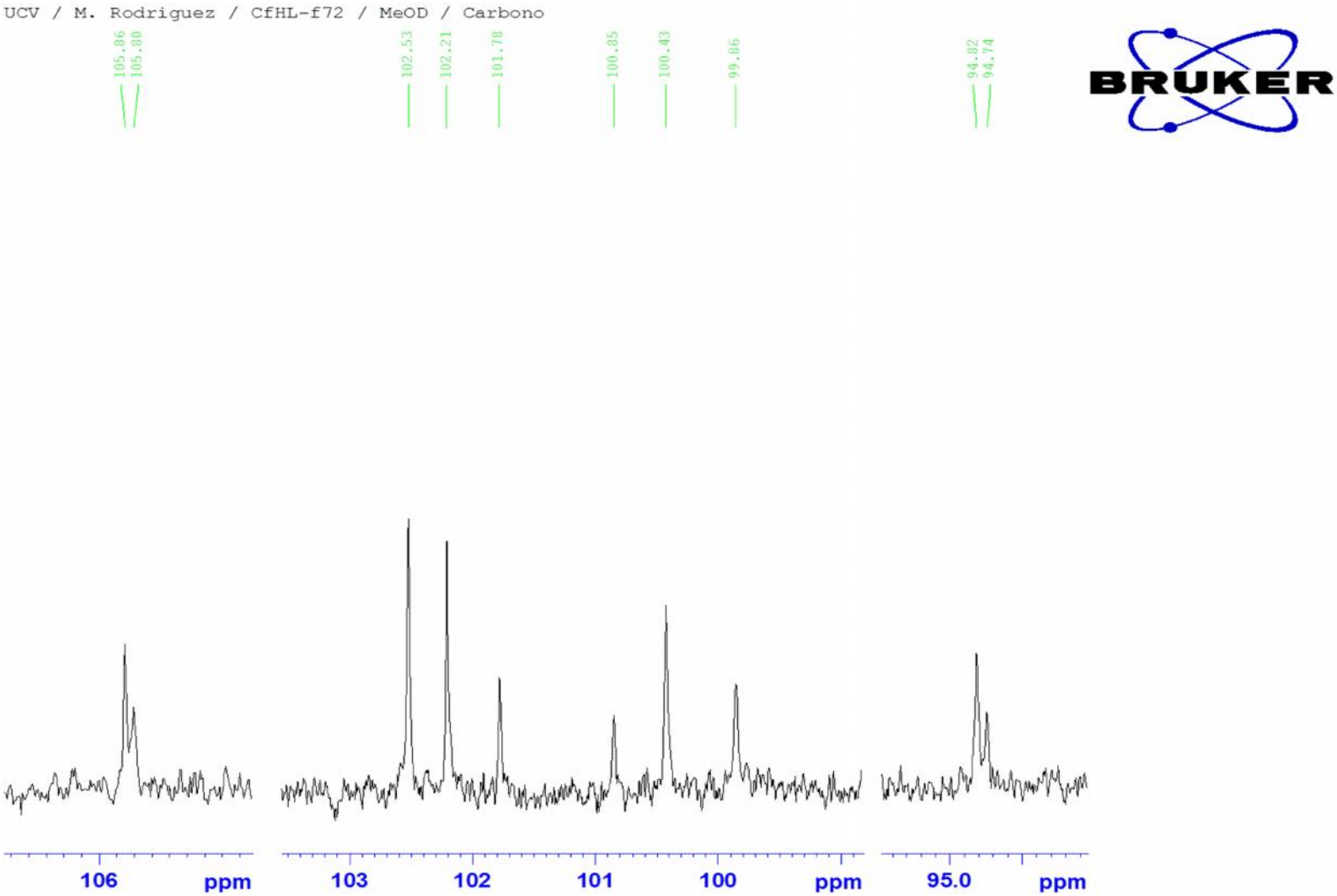
Espectro 82.- Espectro RMN-^{13}C del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)



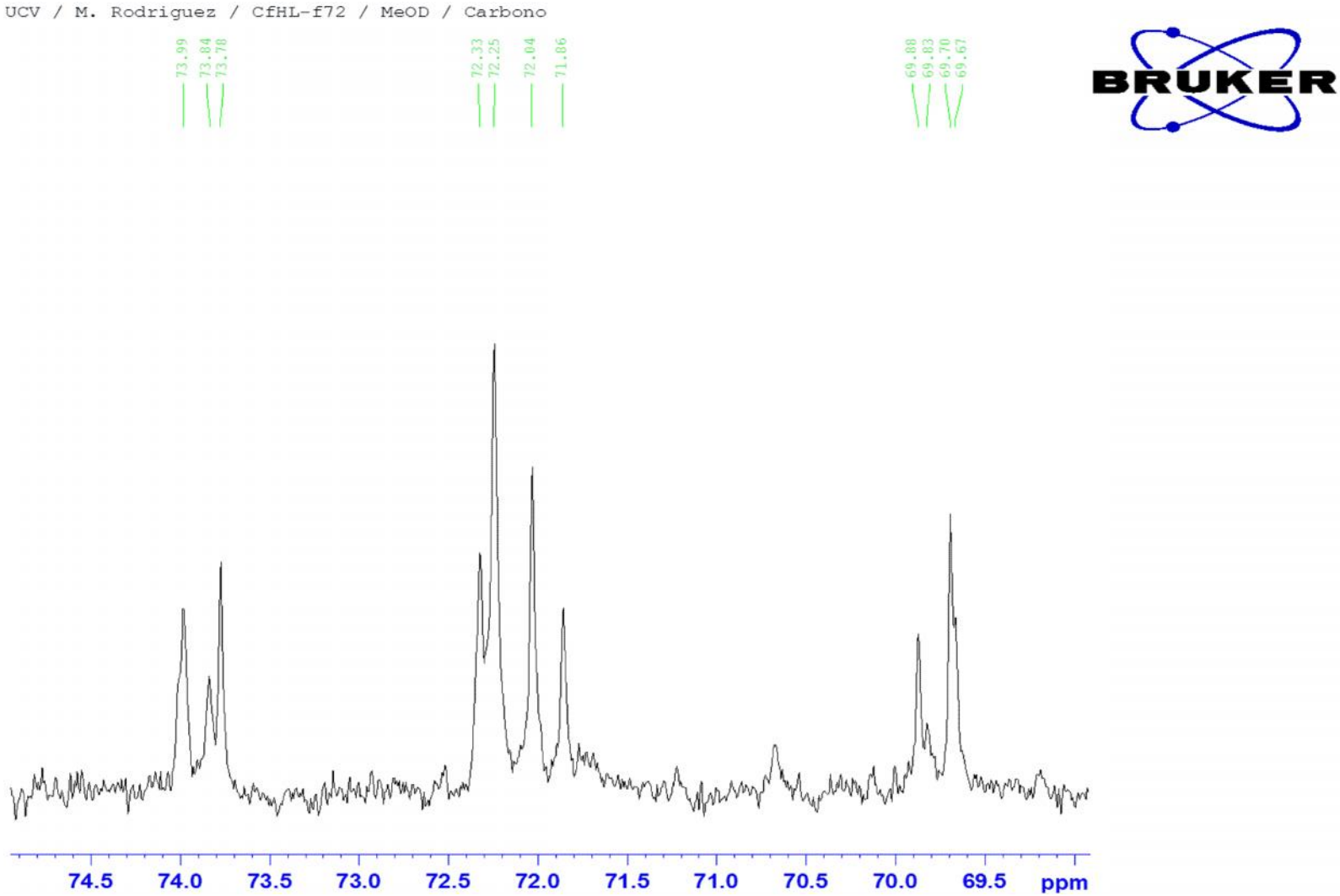
Espectro 83.- Ampliación entre 158-180 ppm del espectro RMN-^{13}C del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)



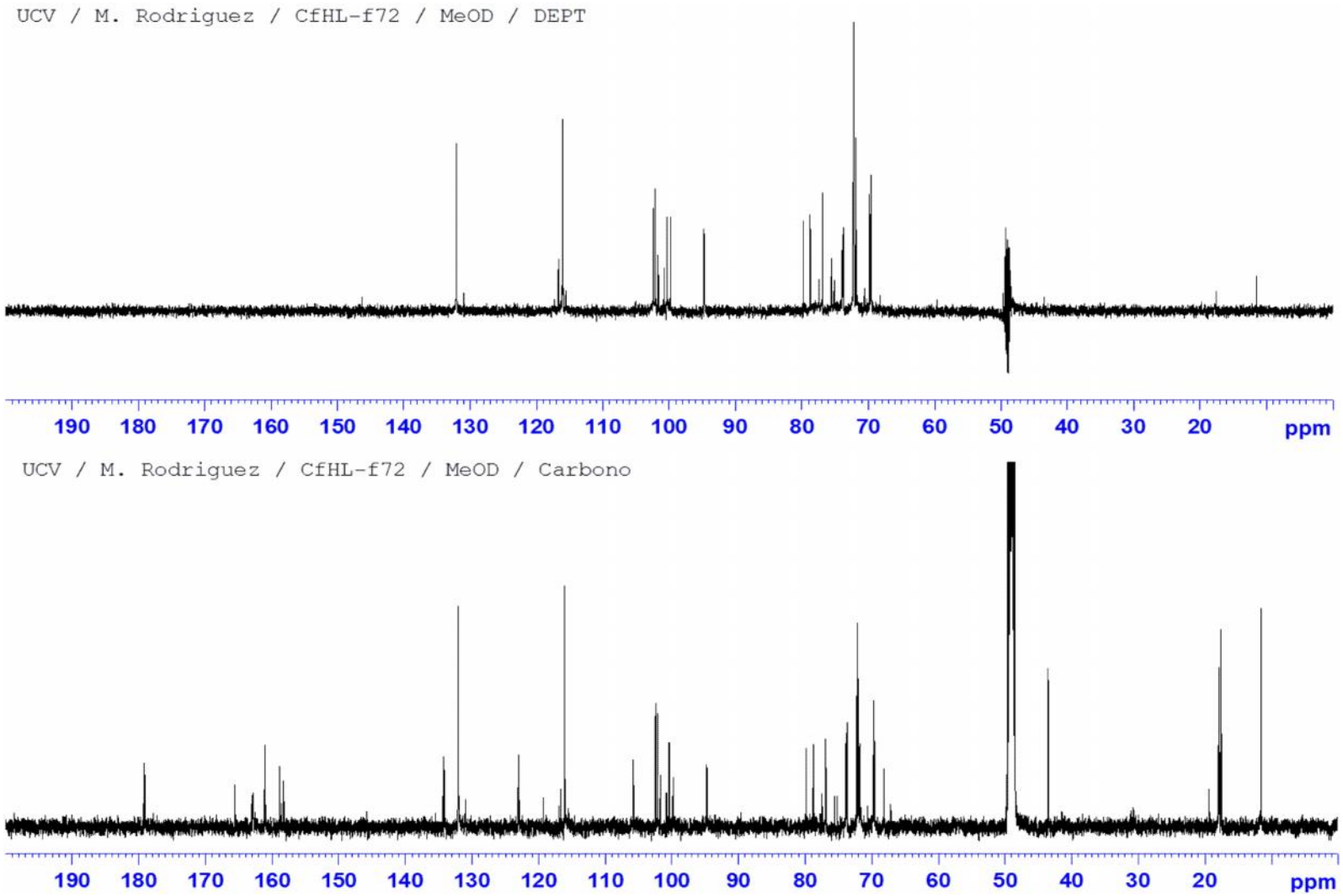
Espectro 84.- Ampliación entre 116-136 ppm del espectro RMN-^{13}C del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



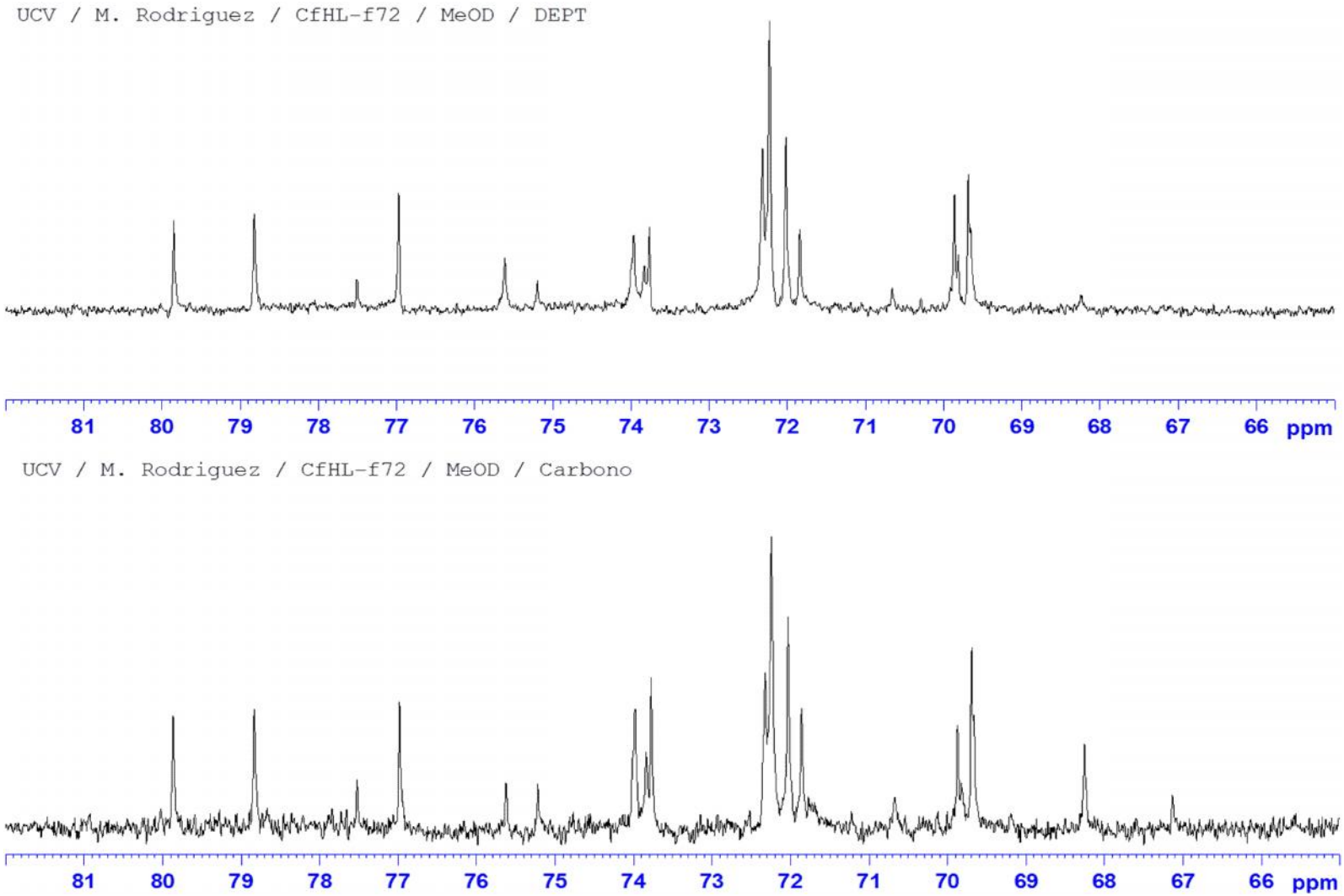
Espectro 85- Ampliación entre 94-107 ppm del espectro RMN-^{13}C del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



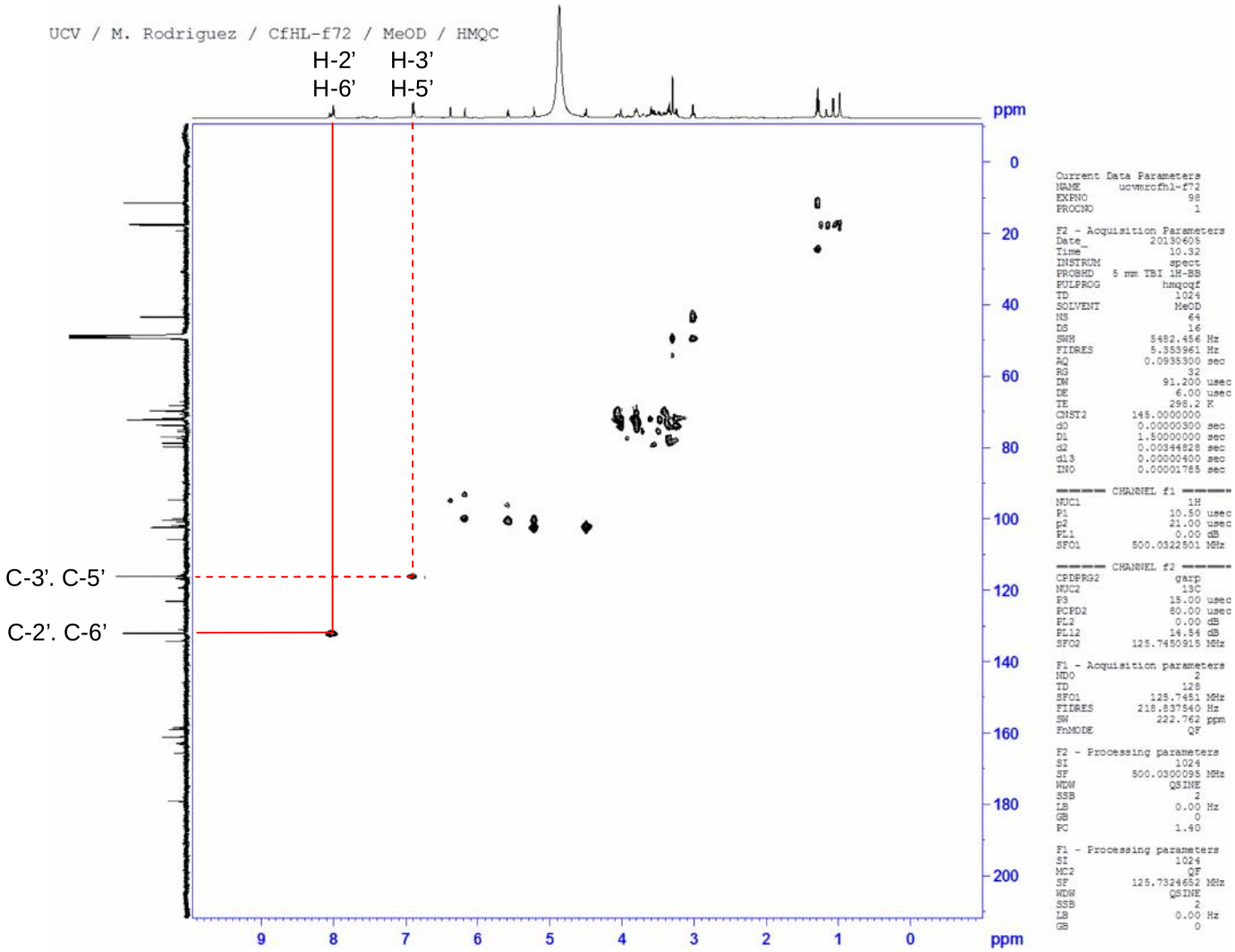
Espectro 86.- Ampliación entre 67-79 ppm del espectro RMN-^{13}C del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)



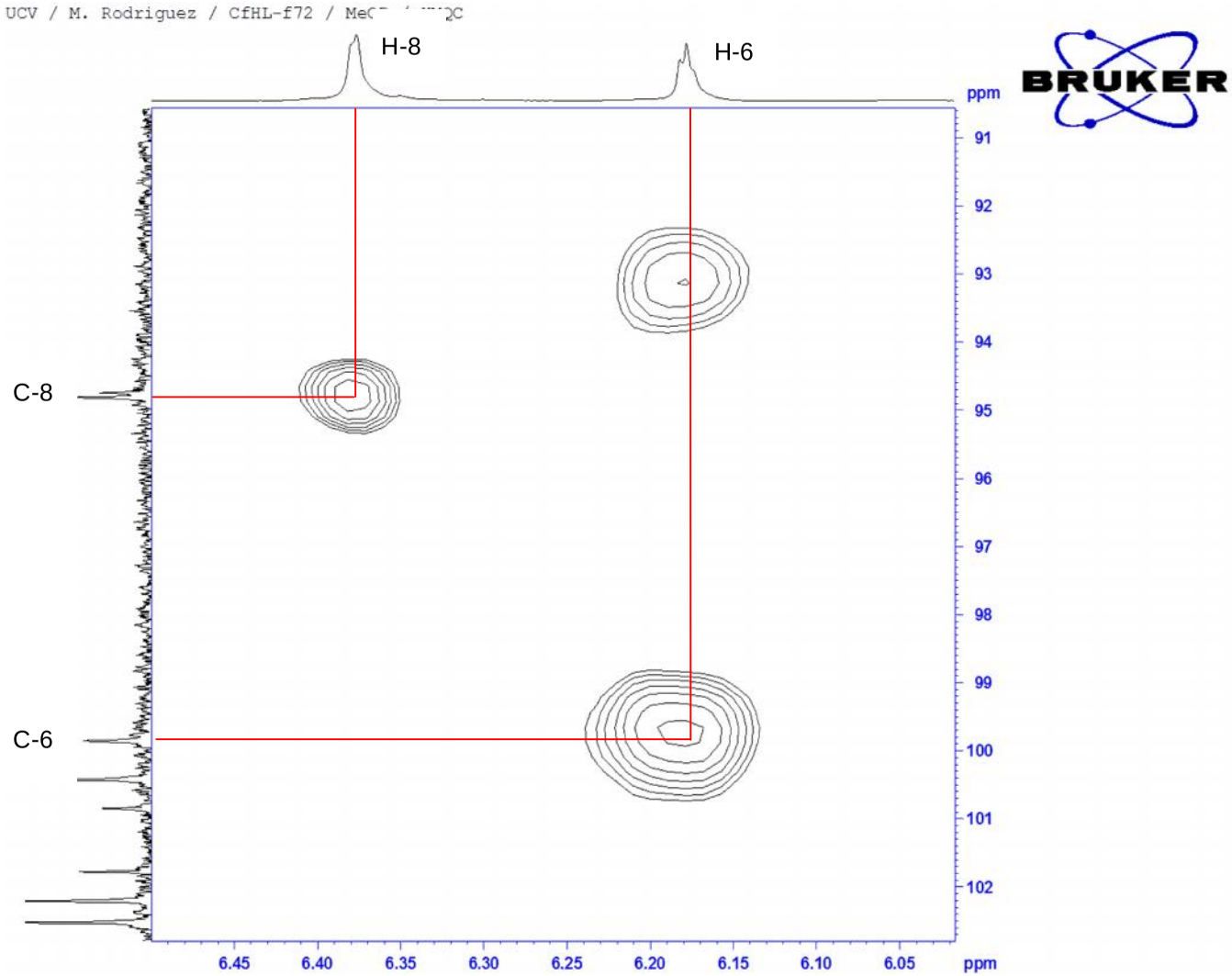
Espectro 87.- Espectro DEPT-135 del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)



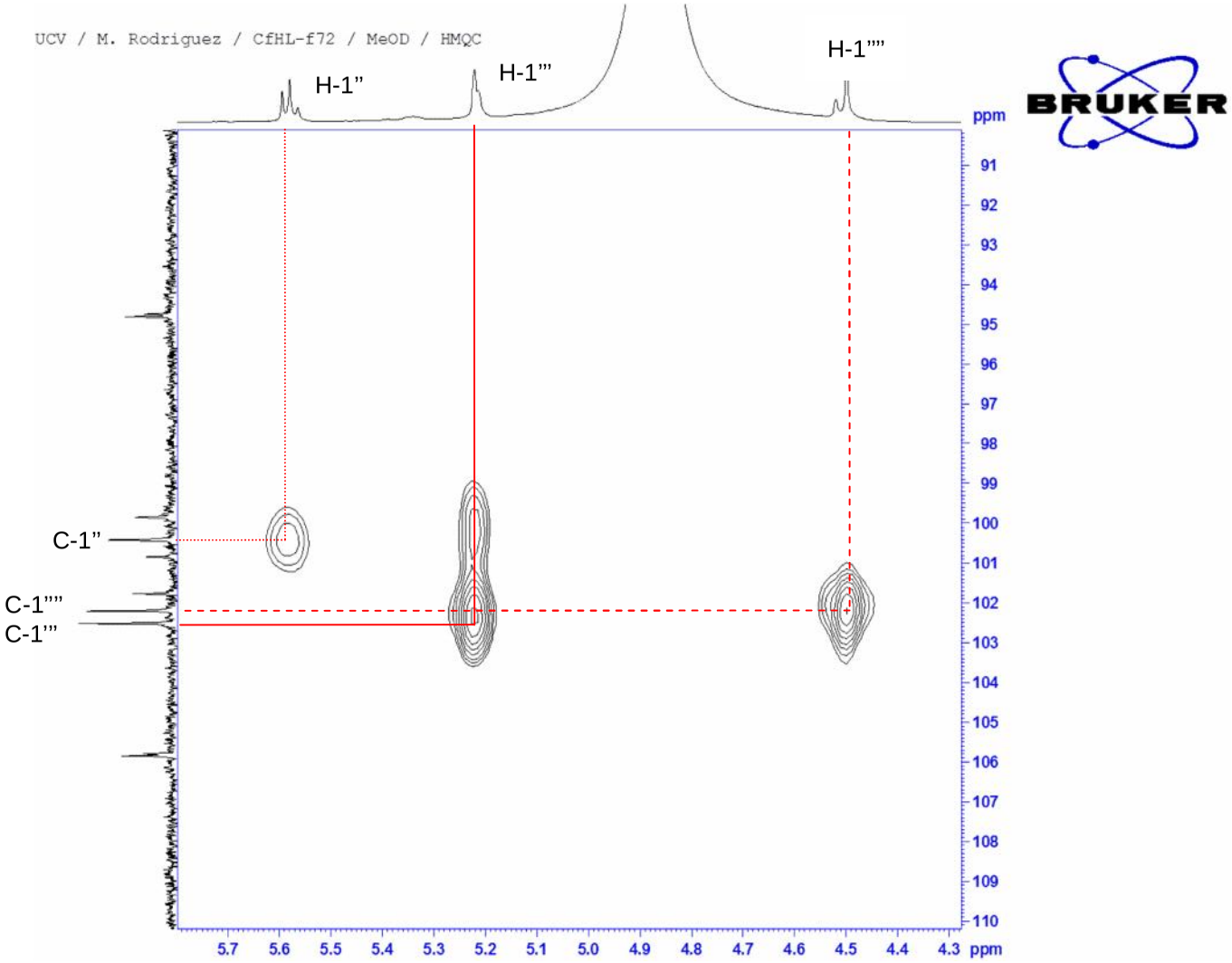
Espectro 88.- Ampliación entre 66-81 ppm del espectro DEPT-135 del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



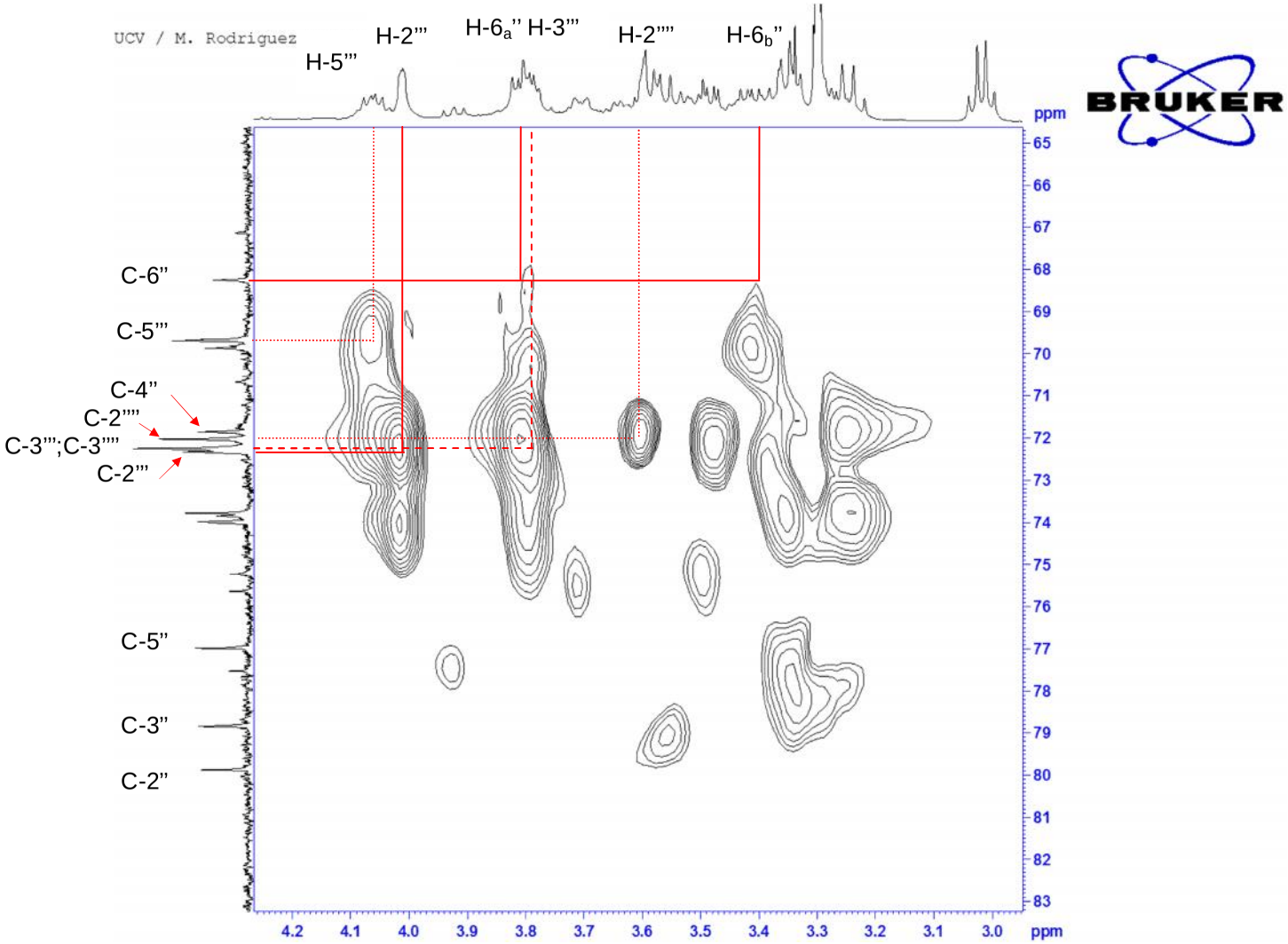
Espectro 89. Espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)



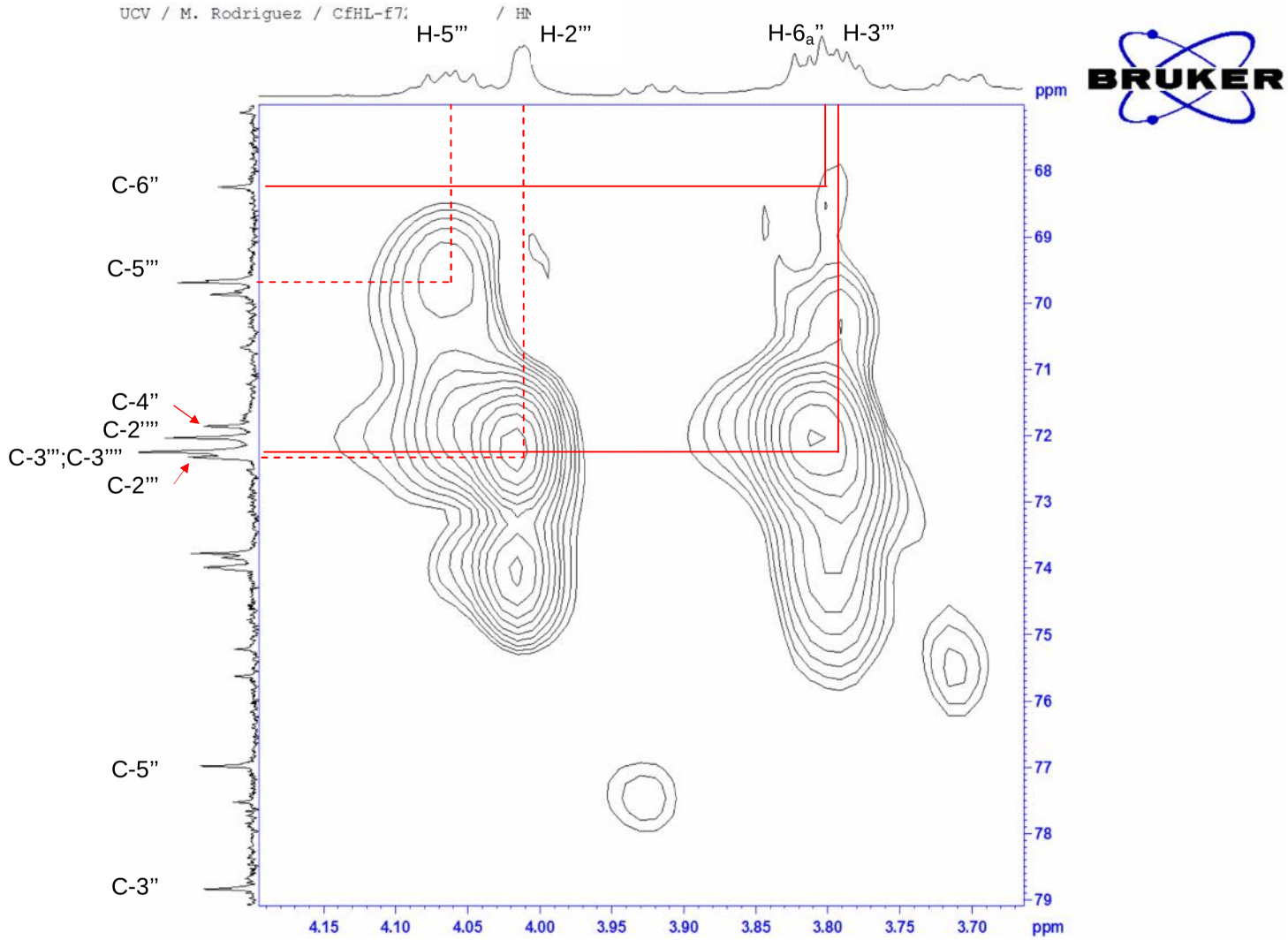
Espectro 90. Ampliación entre 6,05-6,45 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



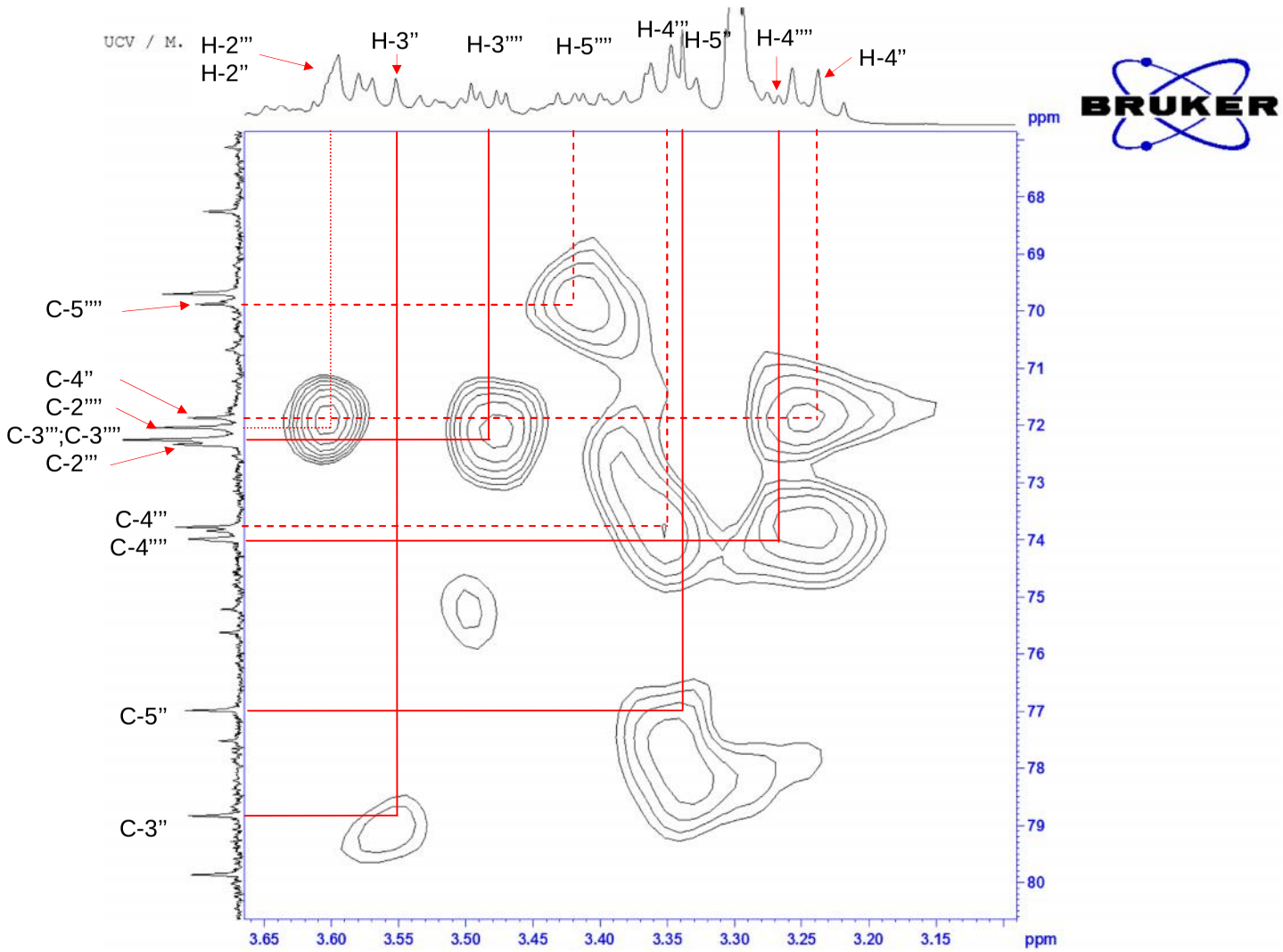
Espectro 91. Ampliación entre 4,3-5,7 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)).



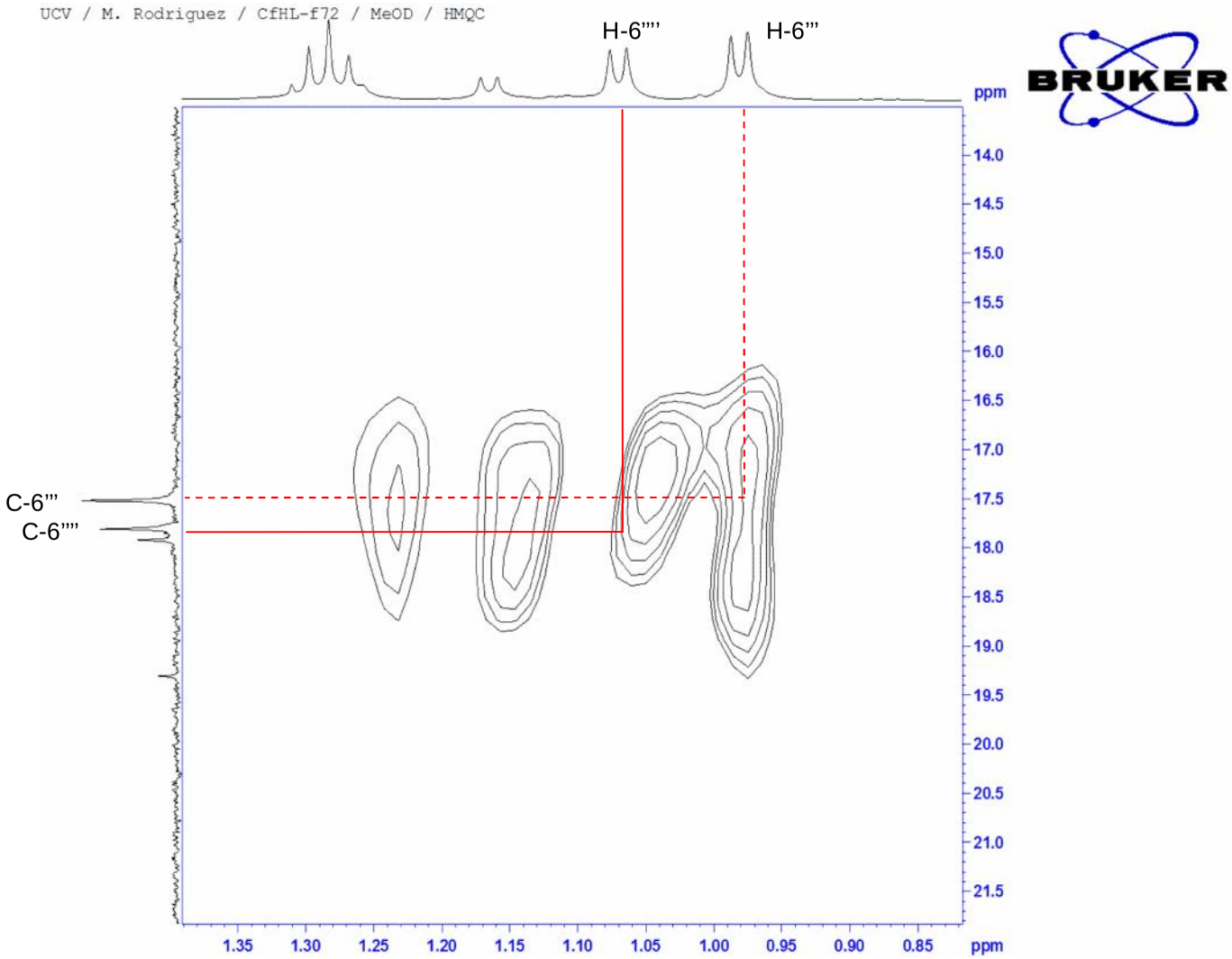
Espectro 92. Ampliación entre 3,0-4,2 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



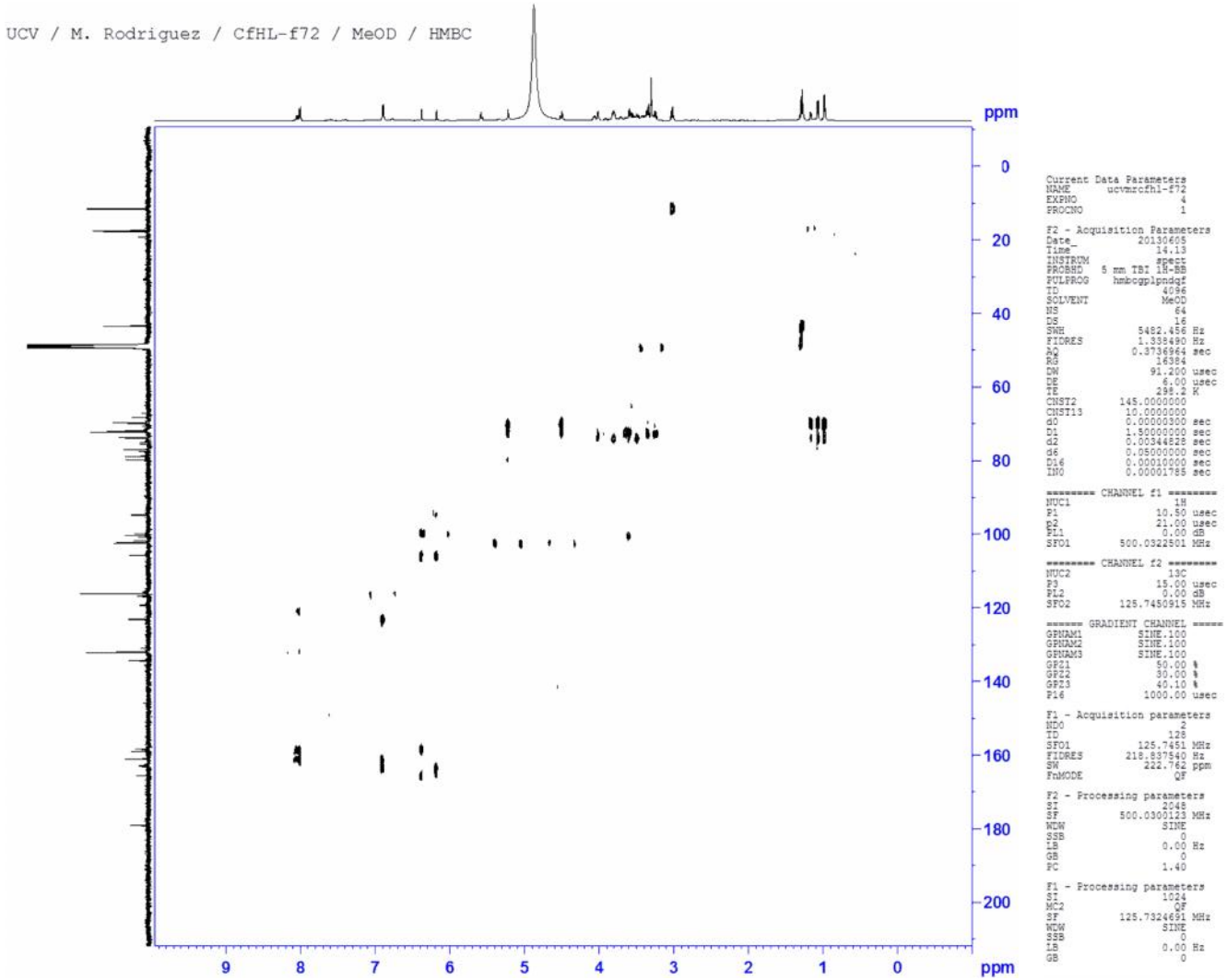
Espectro 93. Ampliación entre 3,7-4,2 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



Espectro 94. Ampliación entre 3,1-3,7 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).

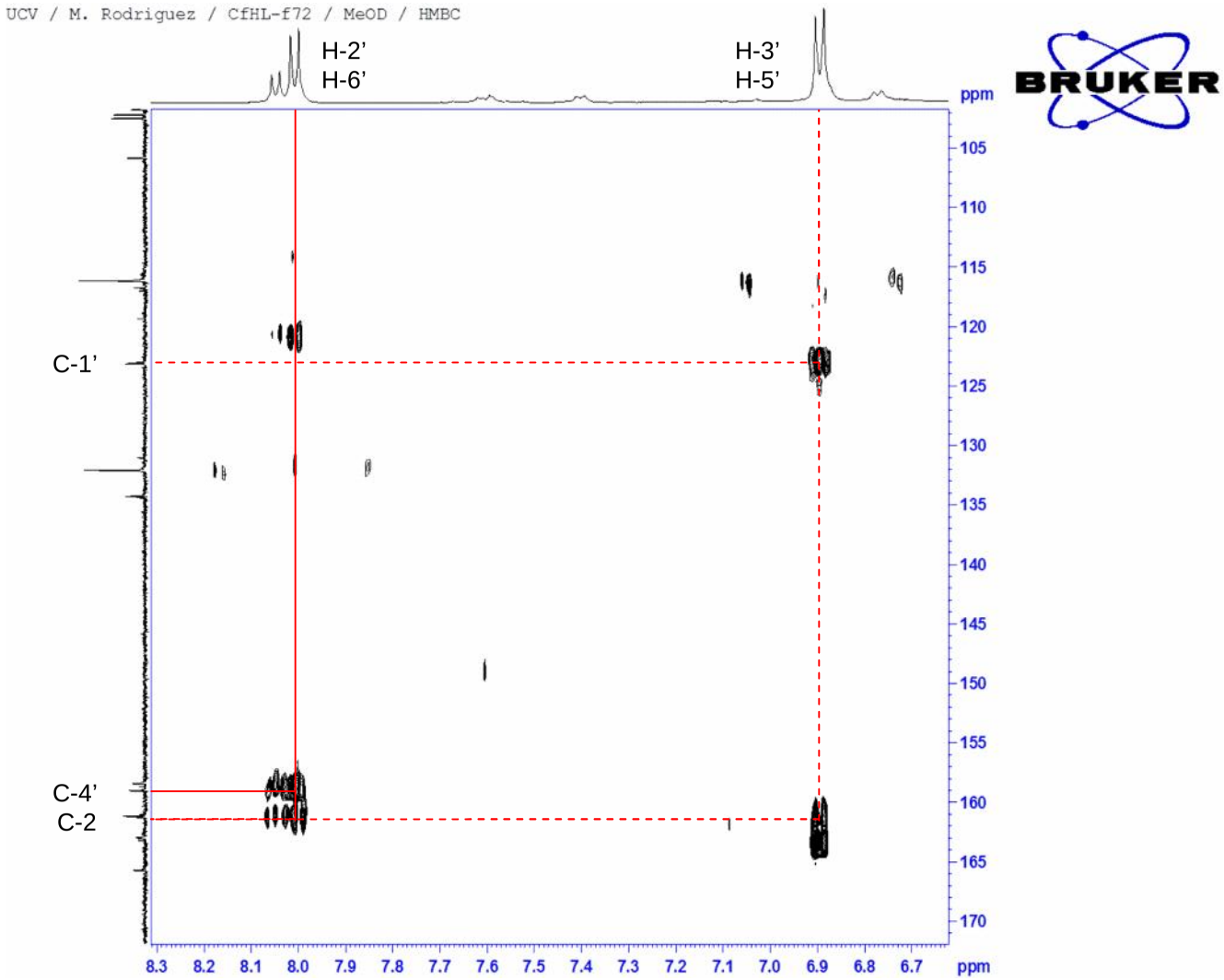


Espectro 95. Ampliación entre 0,8-1,3 ppm en F2 del espectro HMQC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).

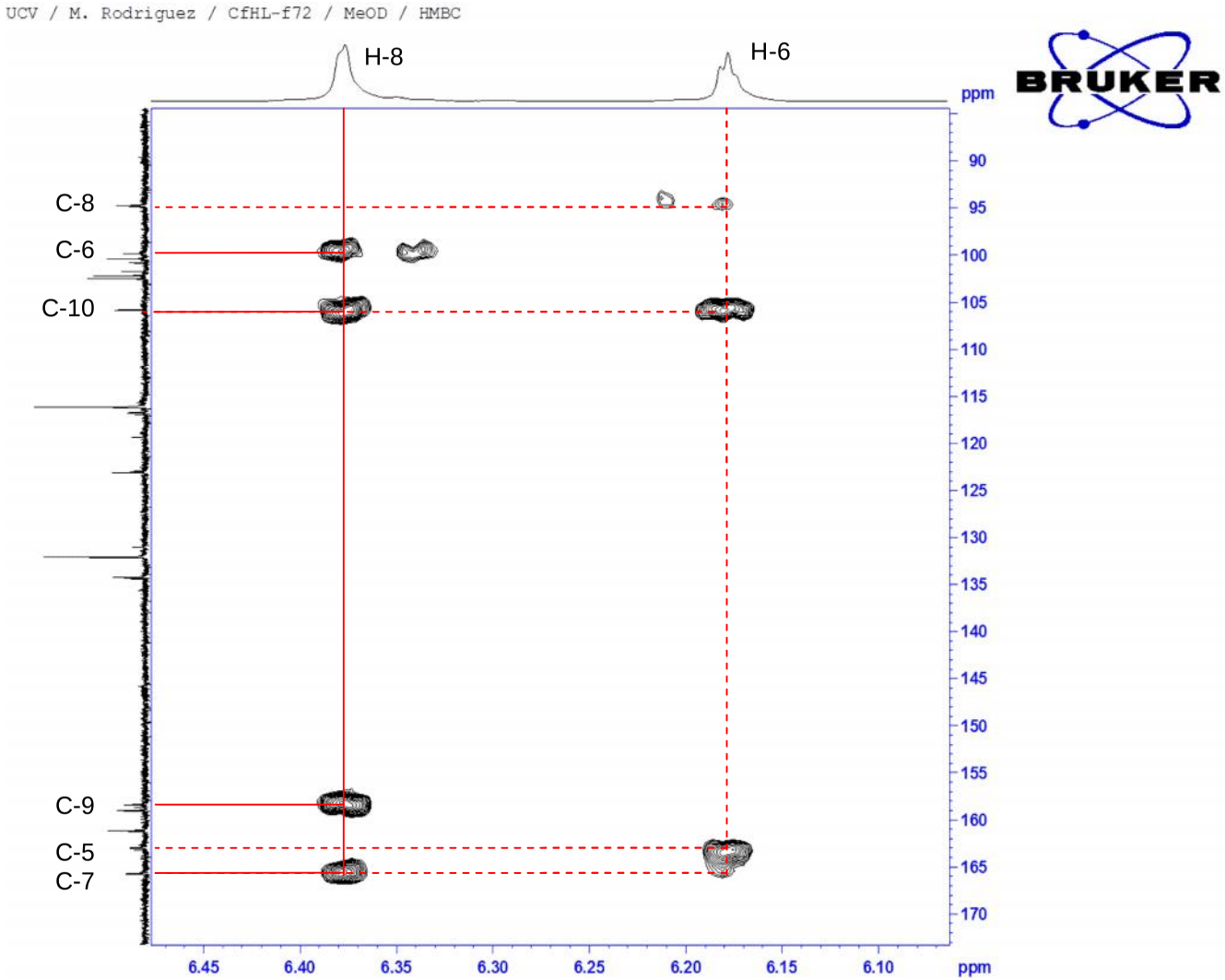



```
Current Data Parameters
NAME        ucvmrcfhl-f72
EXPNO                   4
PROCNO                  1

F2 - Acquisition Parameters
Date_            20130605
Time                14.13
INSTRUM             spect
PROBHD   5 mm TBI 1H-BB
PULPROG     hmbcgplpndqf
TD                   4096
SOLVENT              MeOD
NS                     64
DS                     16
SWH             5482.456 Hz
FIDRES          1.338490 Hz
AQ              0.3736964 sec
RG                  16384
DW               91.200 usec
DE                 6.00 usec
TE                298.2 K
CNST2        145.0000000
CNST13        10.0000000
d0            0.00000300 sec
D1            1.50000000 sec
d2            0.00346528 sec
d6            0.05000000 sec
D16           0.00010000 sec
IN0           0.00001785 sec

======== CHANNEL f1 ========
NUC1                  1H
P1                10.50 usec
pp2               21.00 usec
PL1                0.00 dB
SFO1        500.0322501 MHz

======== CHANNEL f2 ========
NUC2                 13C
P3                15.00 usec
PL2                0.00 dB
SFO2        125.7450915 MHz

====== GRADIENT CHANNEL =====
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPZ1               50.00 %
GPZ2               30.00 %
GPZ3               40.10 %
P16              1000.00 usec

F1 - Acquisition parameters
ND0                     2
TD                    128
SFO1            125.7451 MHz
FIDRES        218.837540 Hz
SW               222.762 ppm
FnMODE                 QF

F2 - Processing parameters
SI                    2048
SF          500.0300123 MHz
WDW                   SINE
SSB                      0
LB                    0.00 Hz
GB                       0
PC                    1.40

F1 - Processing parameters
SI                    1024
MC2                     QF
SF          125.7324691 MHz
WDW                   SINE
SSB                      0
LB                    0.00 Hz
GB                       0
```

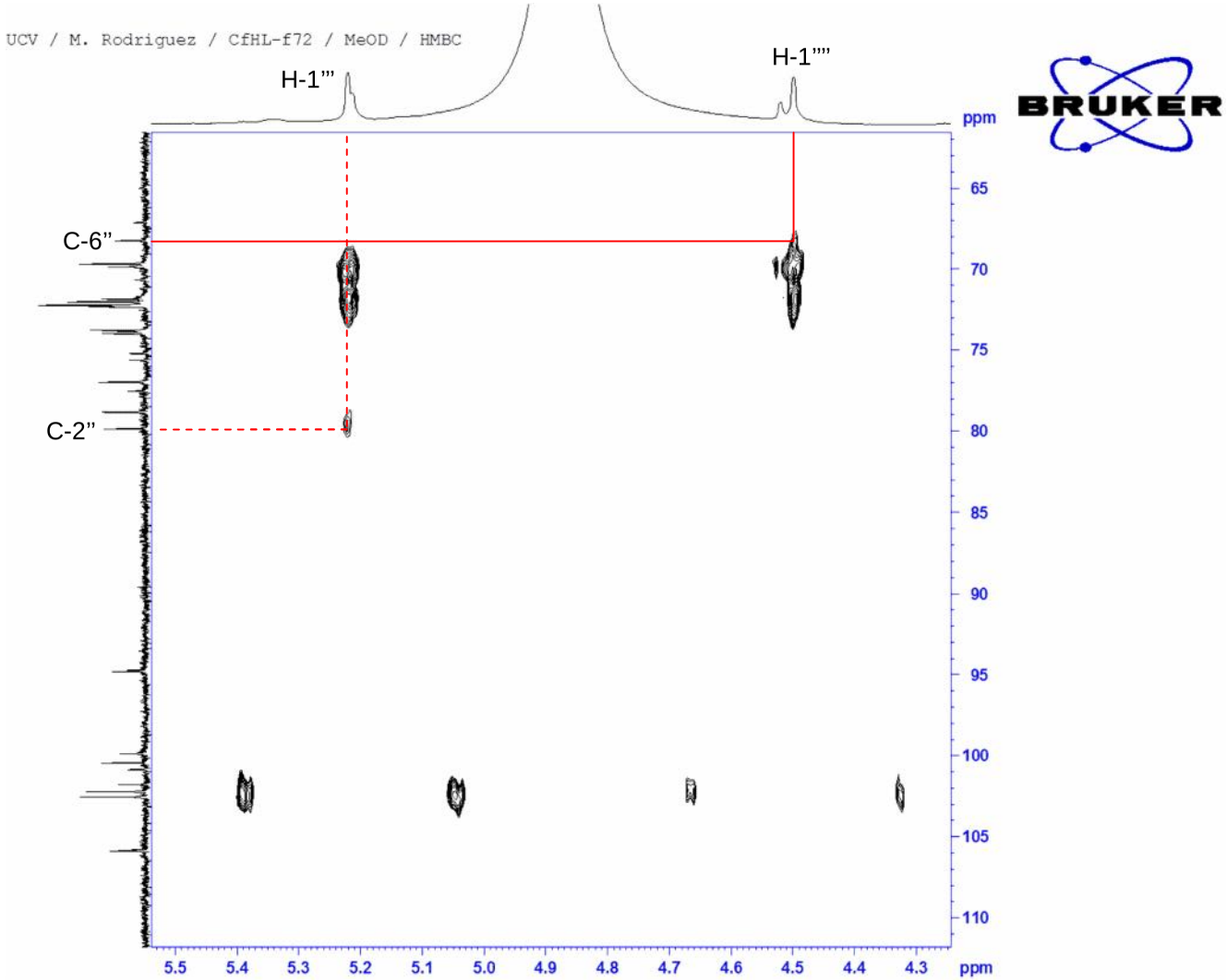
Espectro 96. Espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



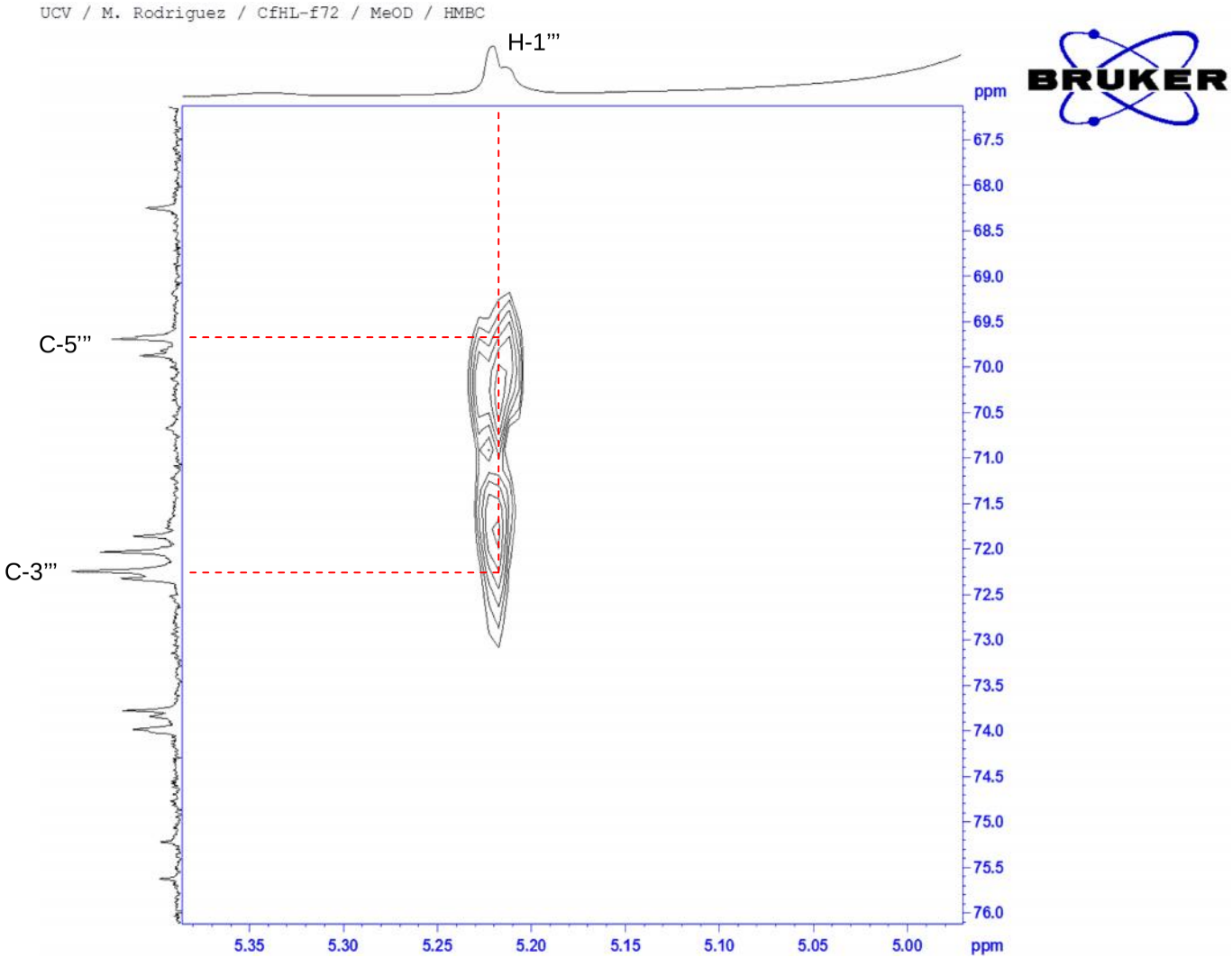
Espectro 97. Ampliación entre 6,7-8,3 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



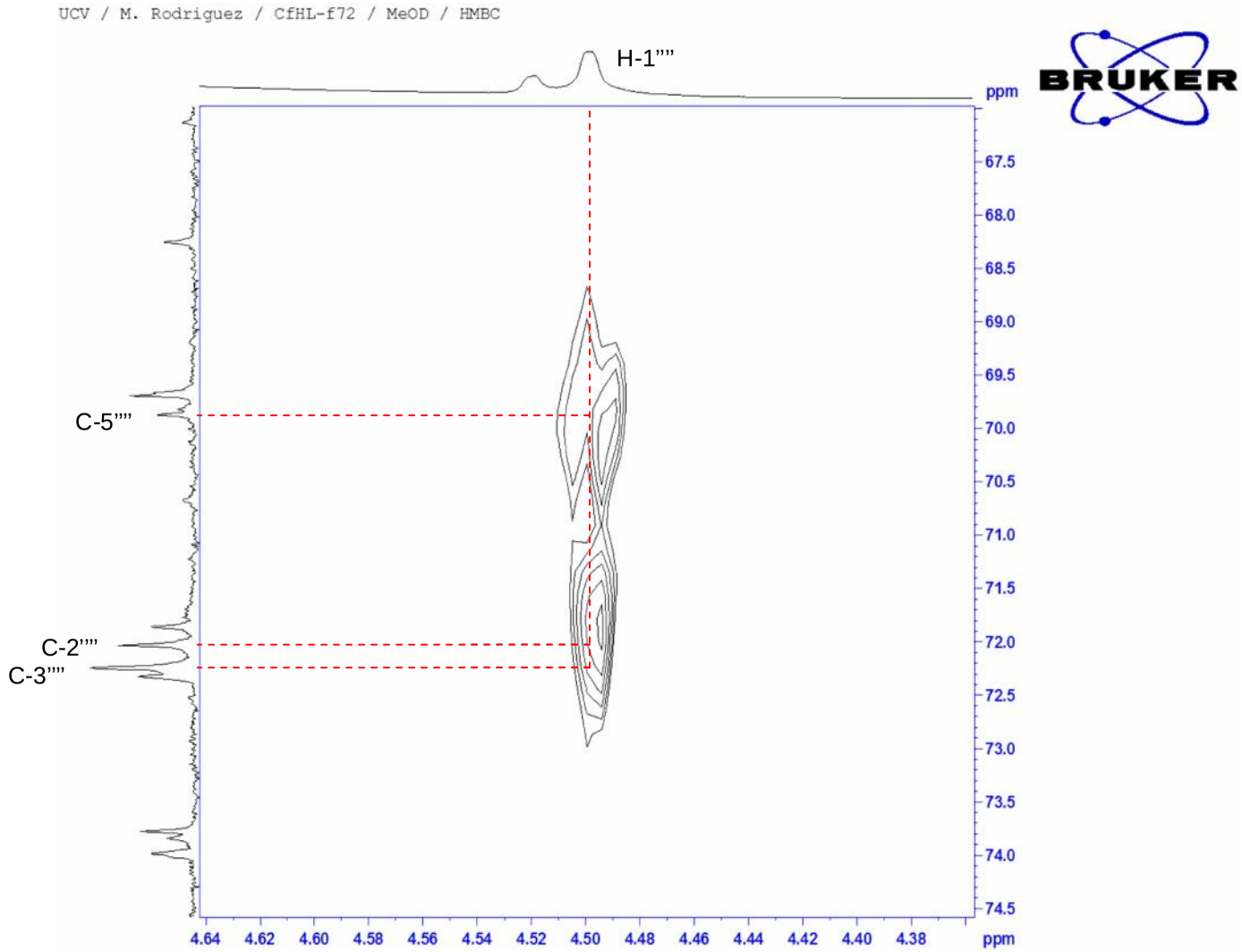
Espectro 98. Ampliación entre 6,1-6,5 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



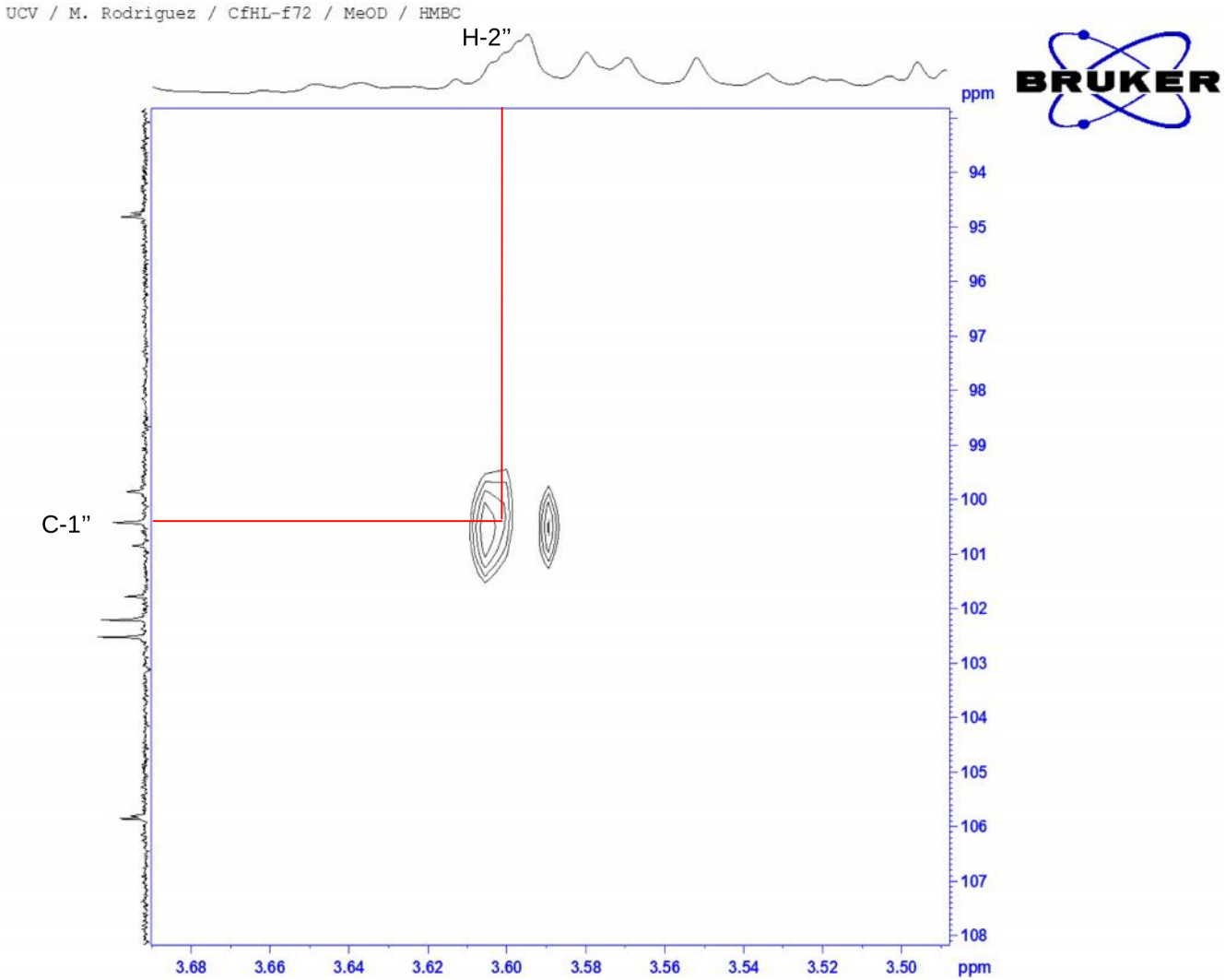
Espectro 99. Ampliación entre 4,3-5,5 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



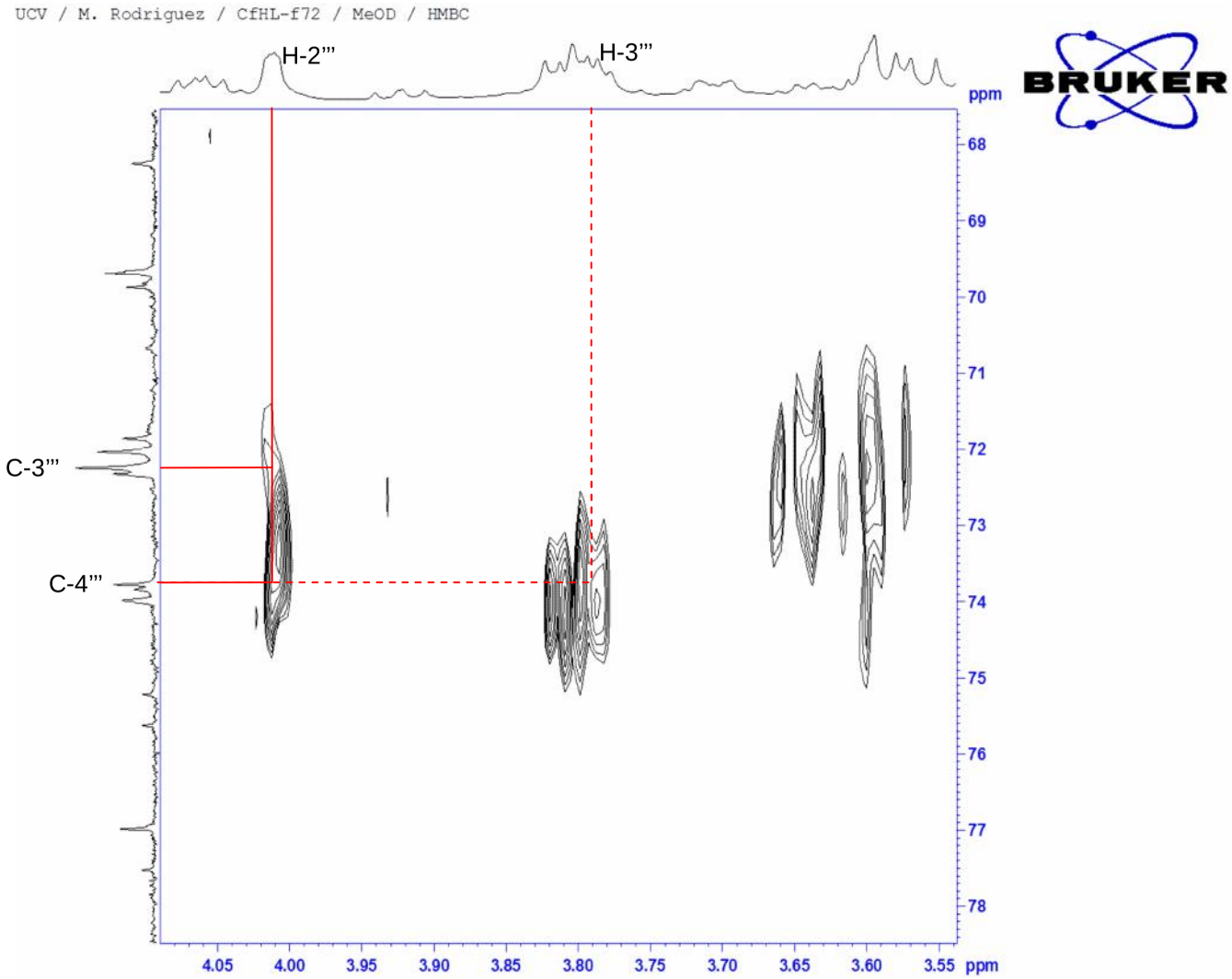
Espectro 100. Ampliación entre 5,0-5,4 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



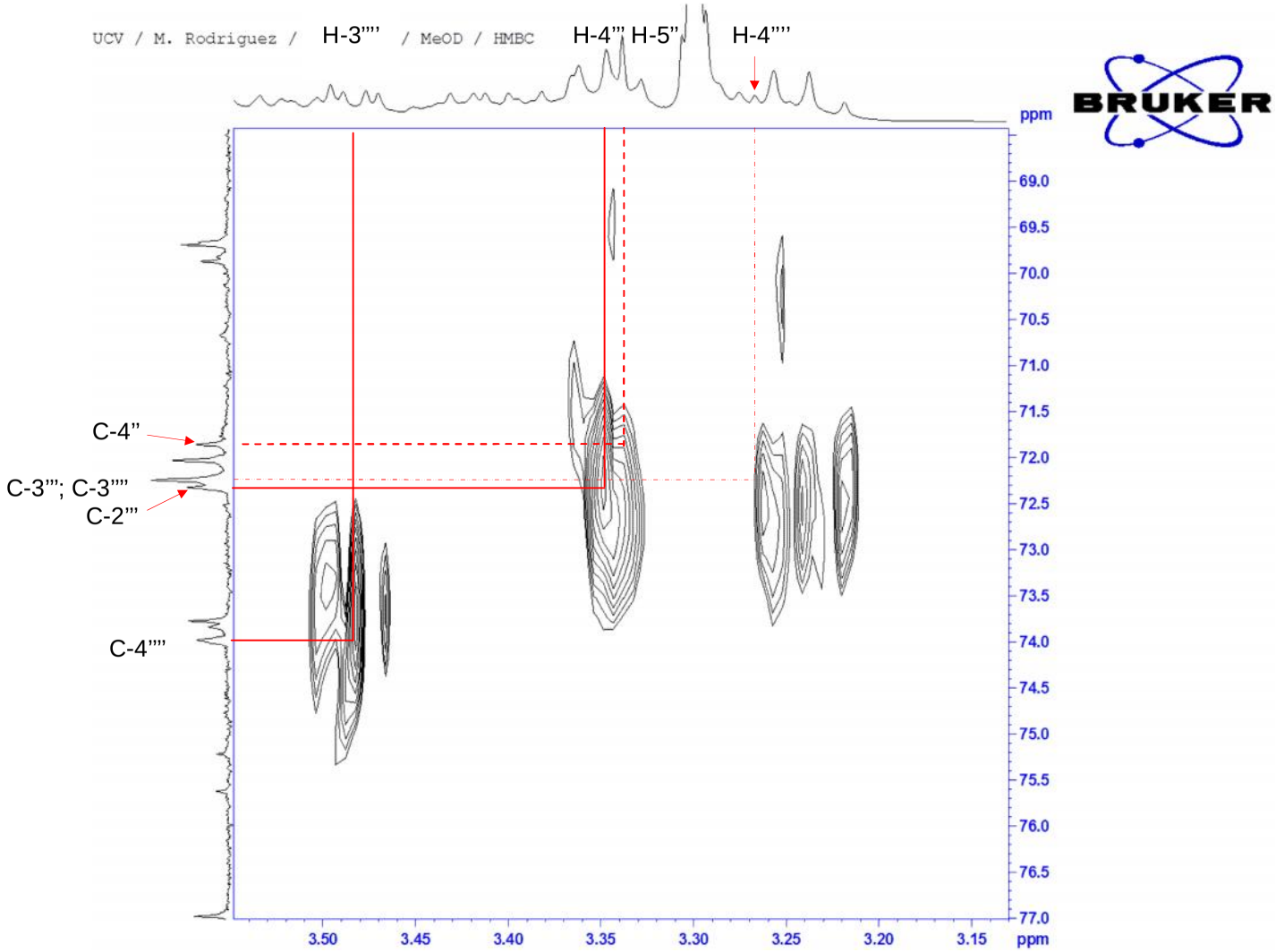
Espectro 101. Ampliación entre 4,3-4,6 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



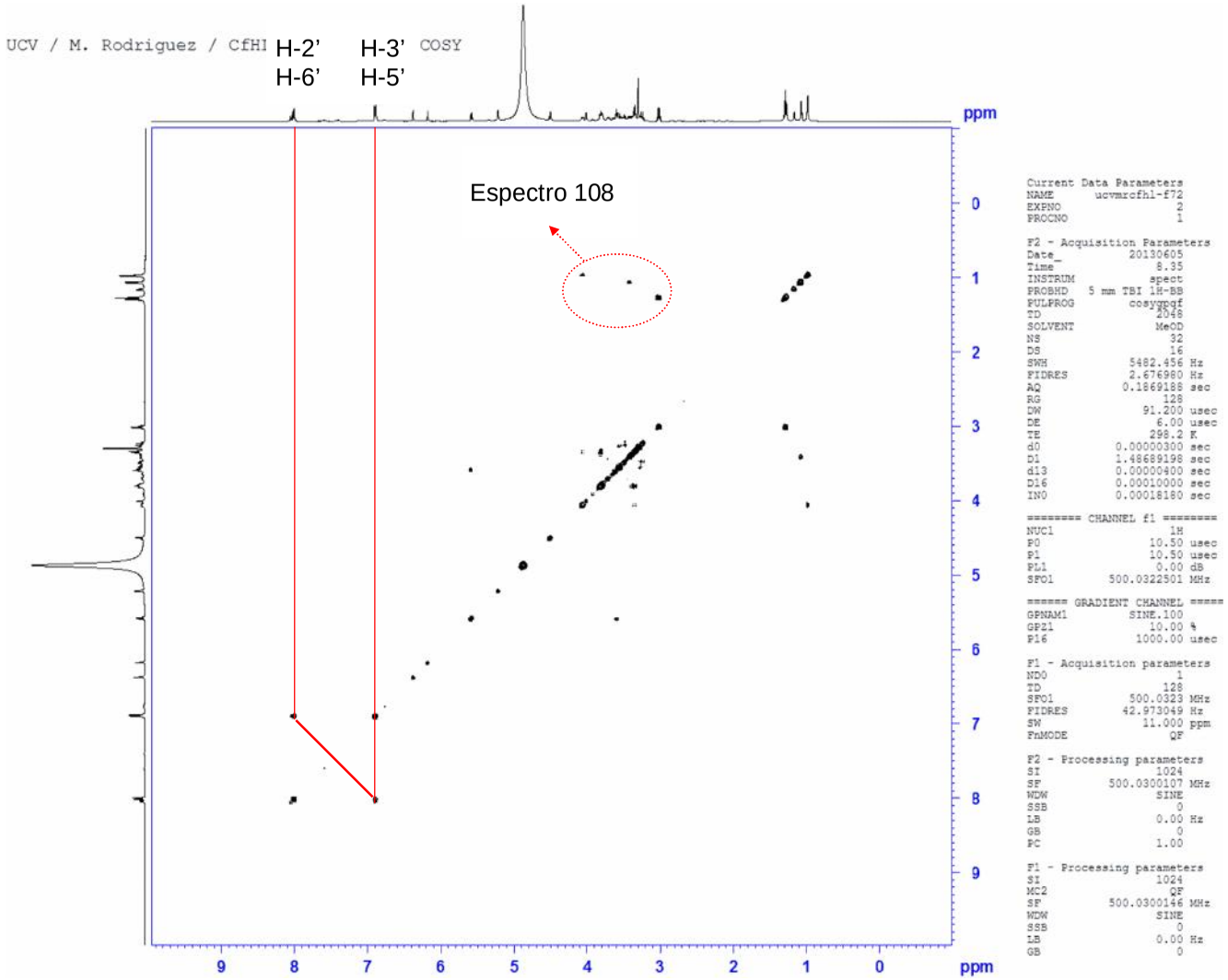
Espectro 102.- Ampliación entre 3,5-3,7 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2”-ramnosil)rutinósido)).



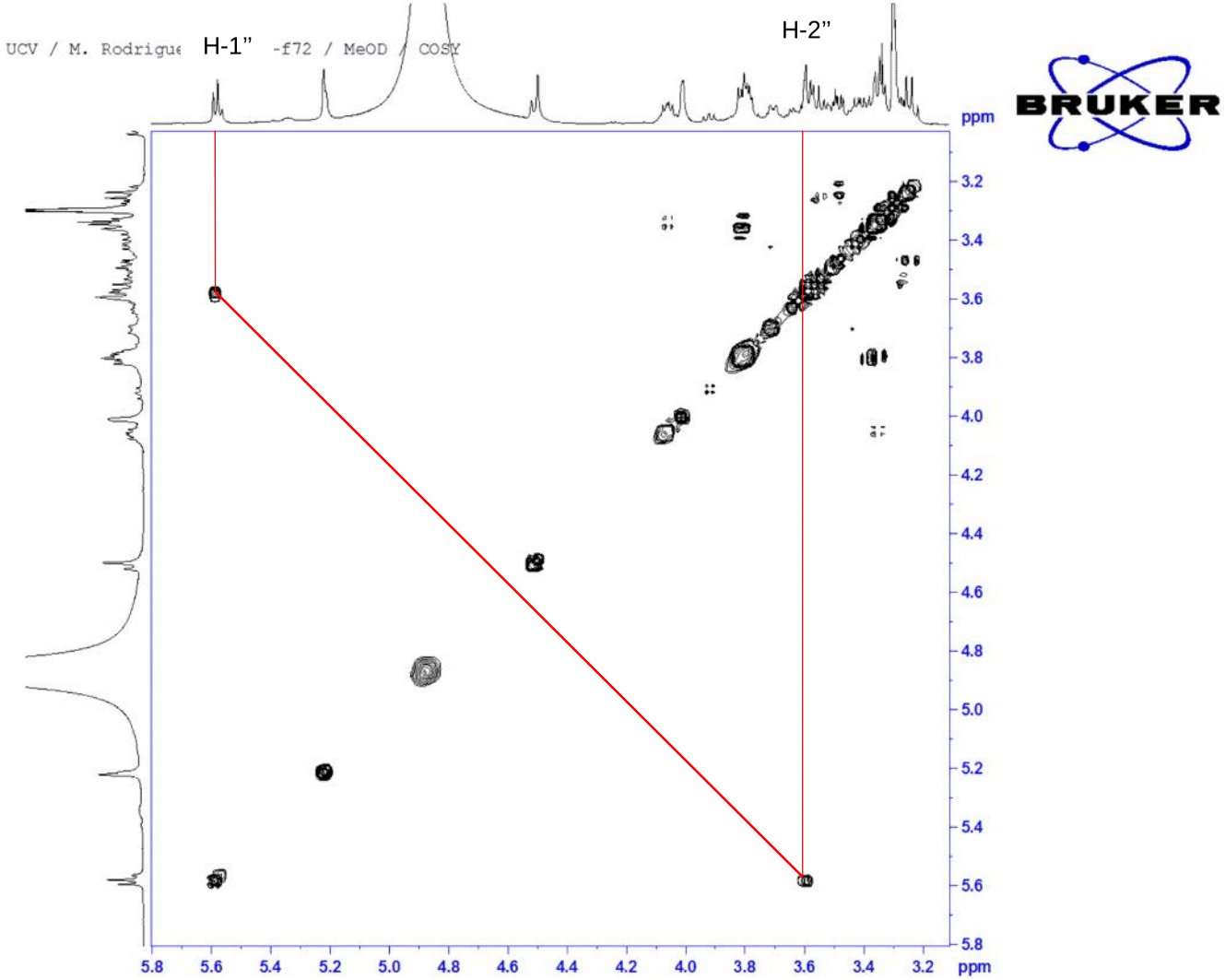
Espectro 103.- Ampliación entre 3,5-4,1 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



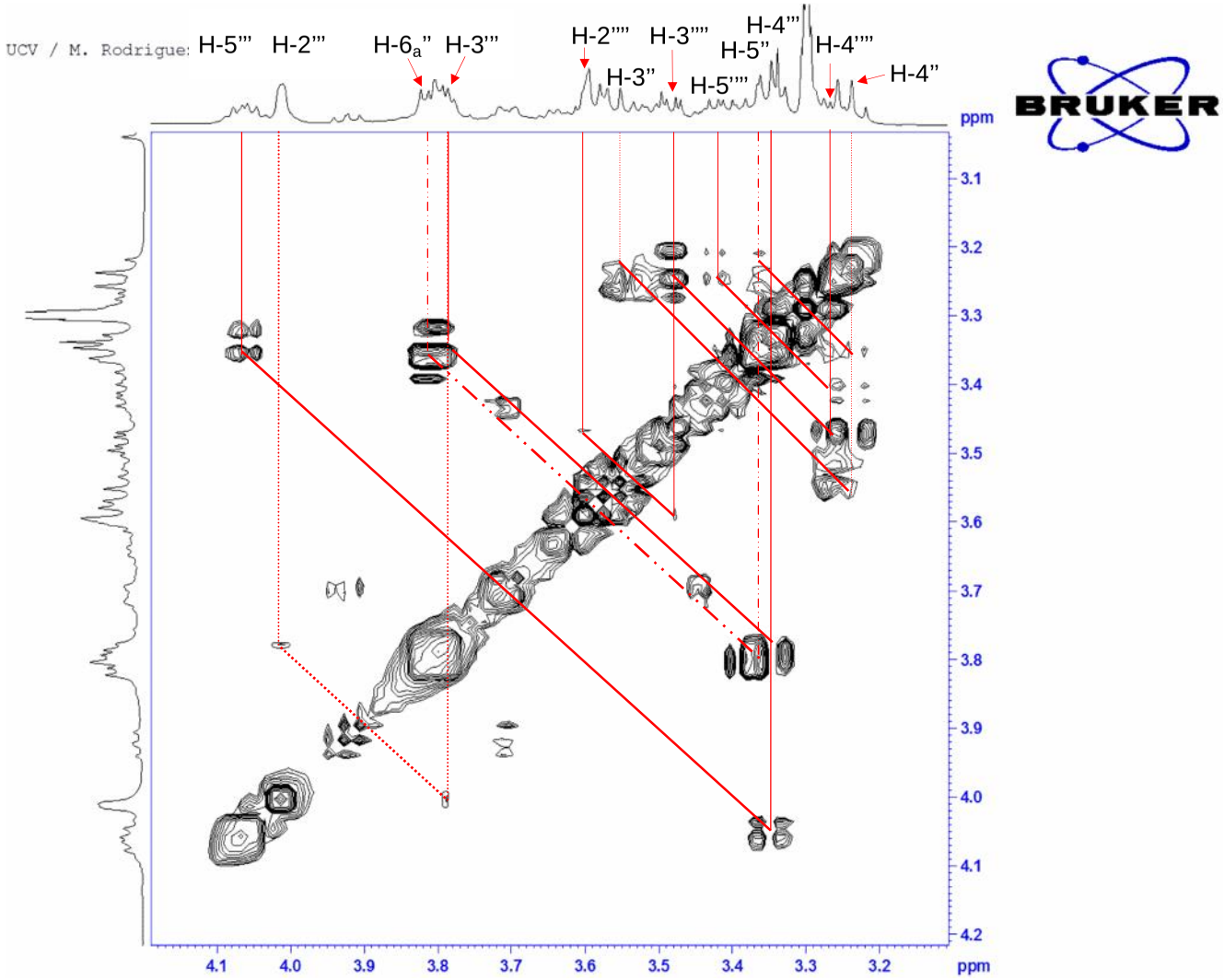
Espectro 104.- Ampliación entre 3,1-3,5 ppm en F2 del espectro HMBC del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



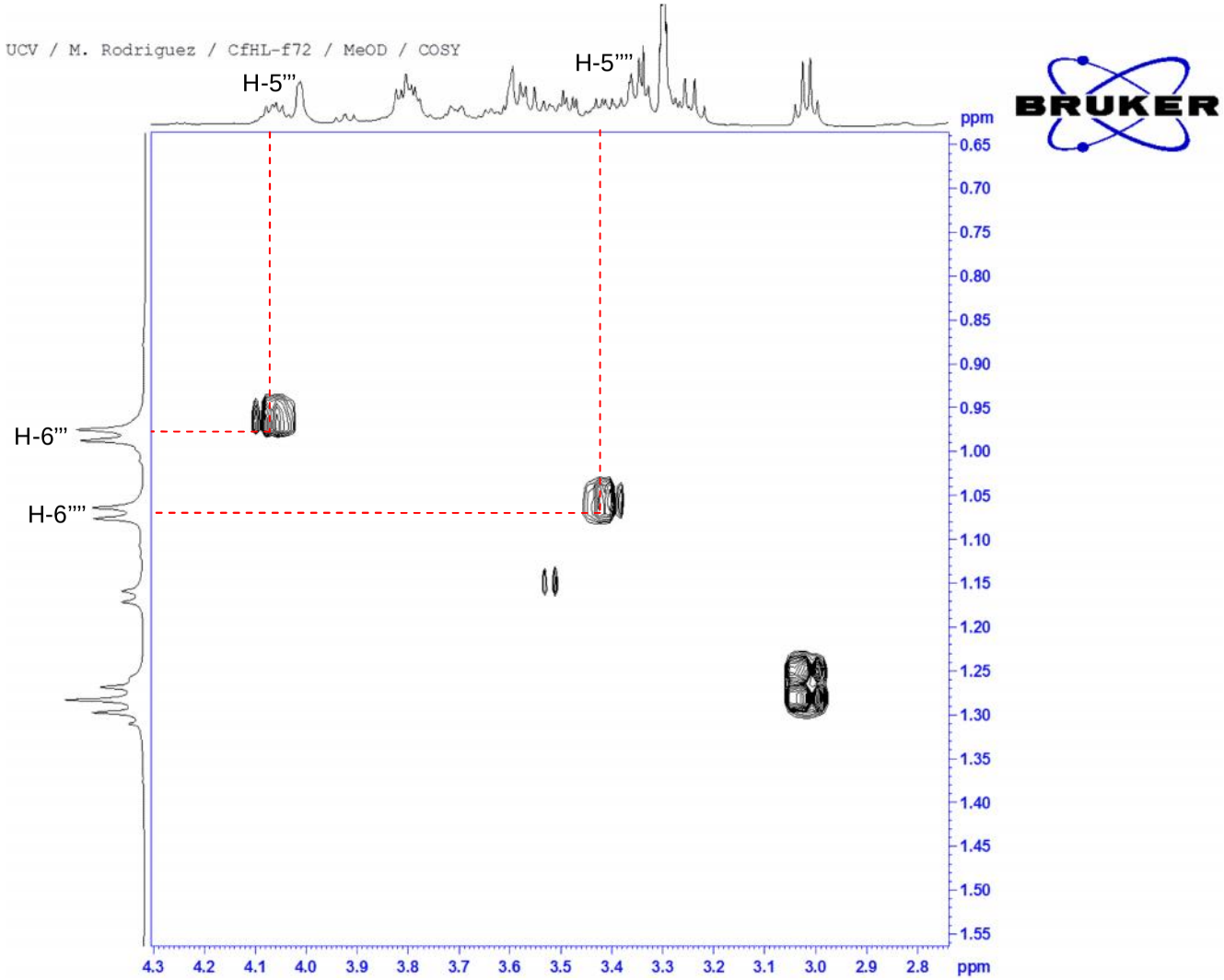
Espectro 105. Espectro COSY del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



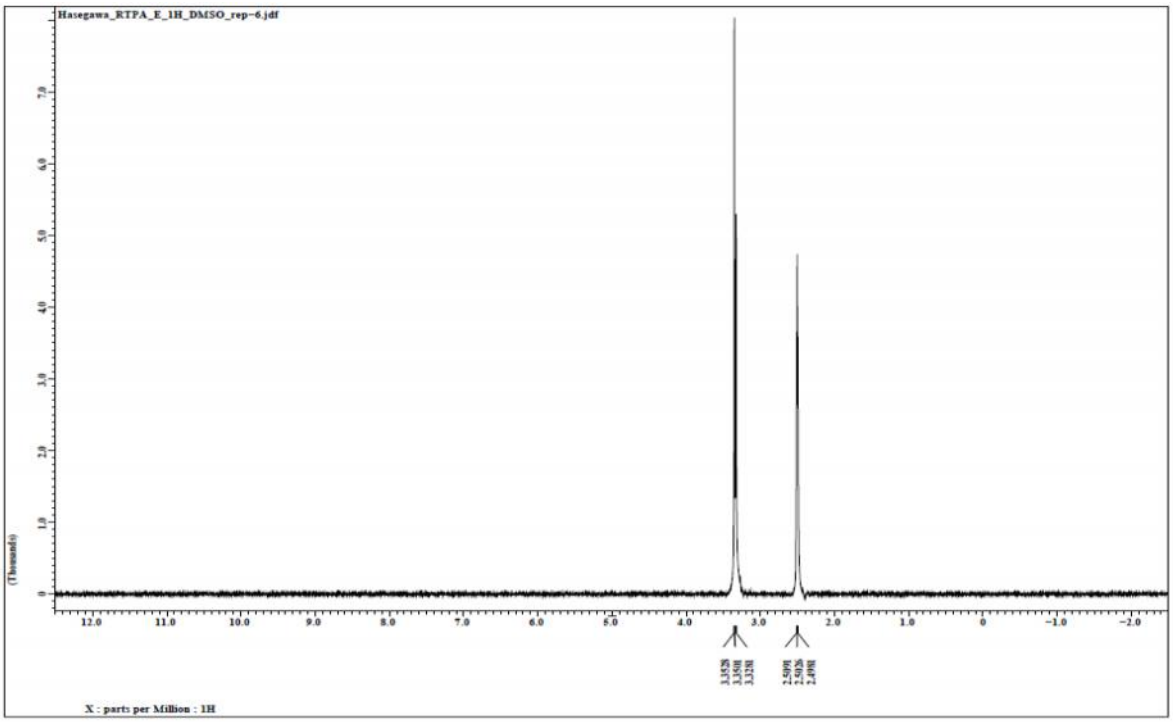
Espectro 106. Ampliación entre 3,2-5,8 ppm del espectro COSY del compuesto CfH-2 (Kaempferol-3-*O*-(2’’-ramnosil)rutinósido)).



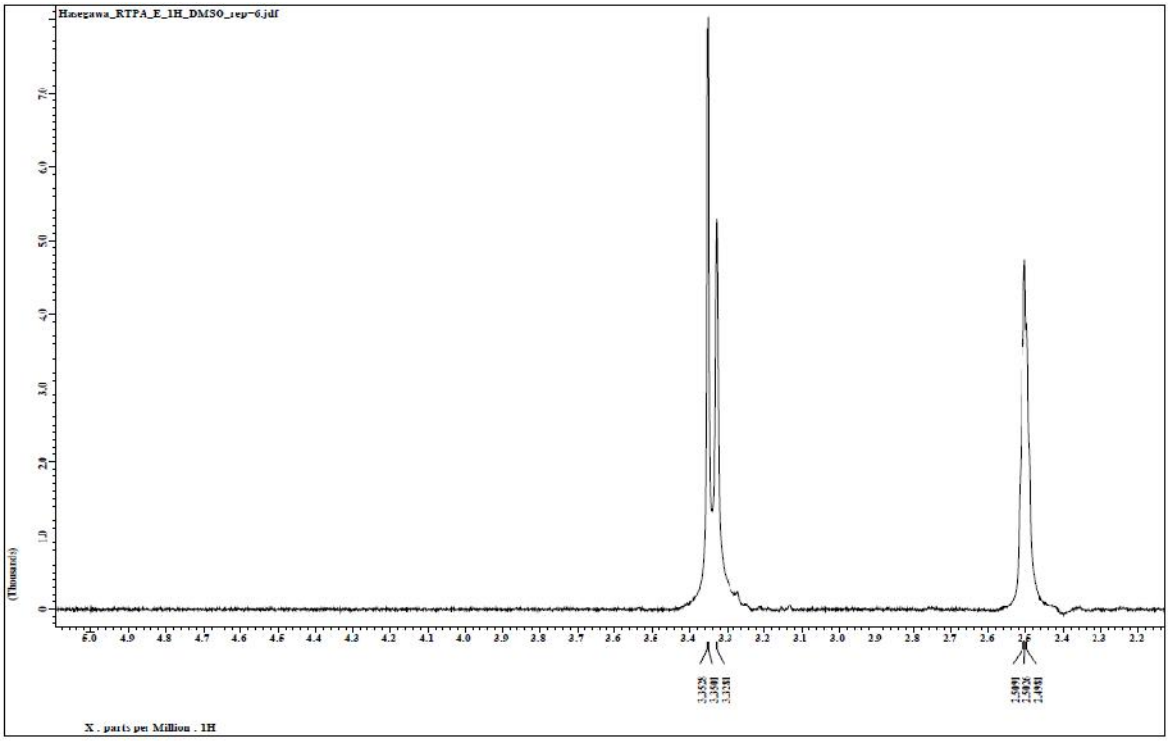
Espectro 107. Ampliación entre 3,2-4,1 ppm del espectro COSY del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



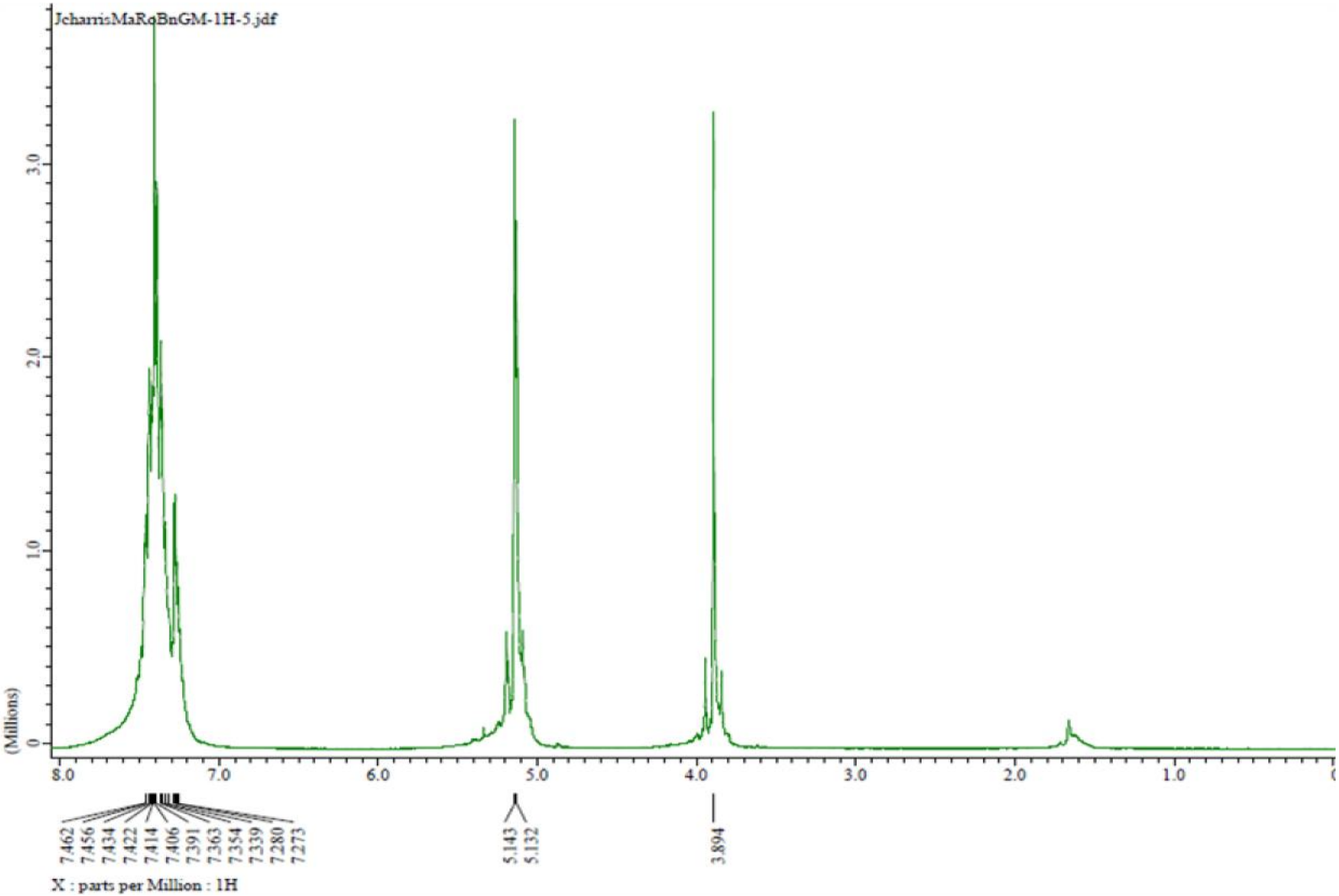
Espectro 108. Ampliación entre 2,8-4,3 ppm del espectro COSY del compuesto CfH-2 (Kaempferol-3-*O*-(2''-ramnosil)rutinósido)).



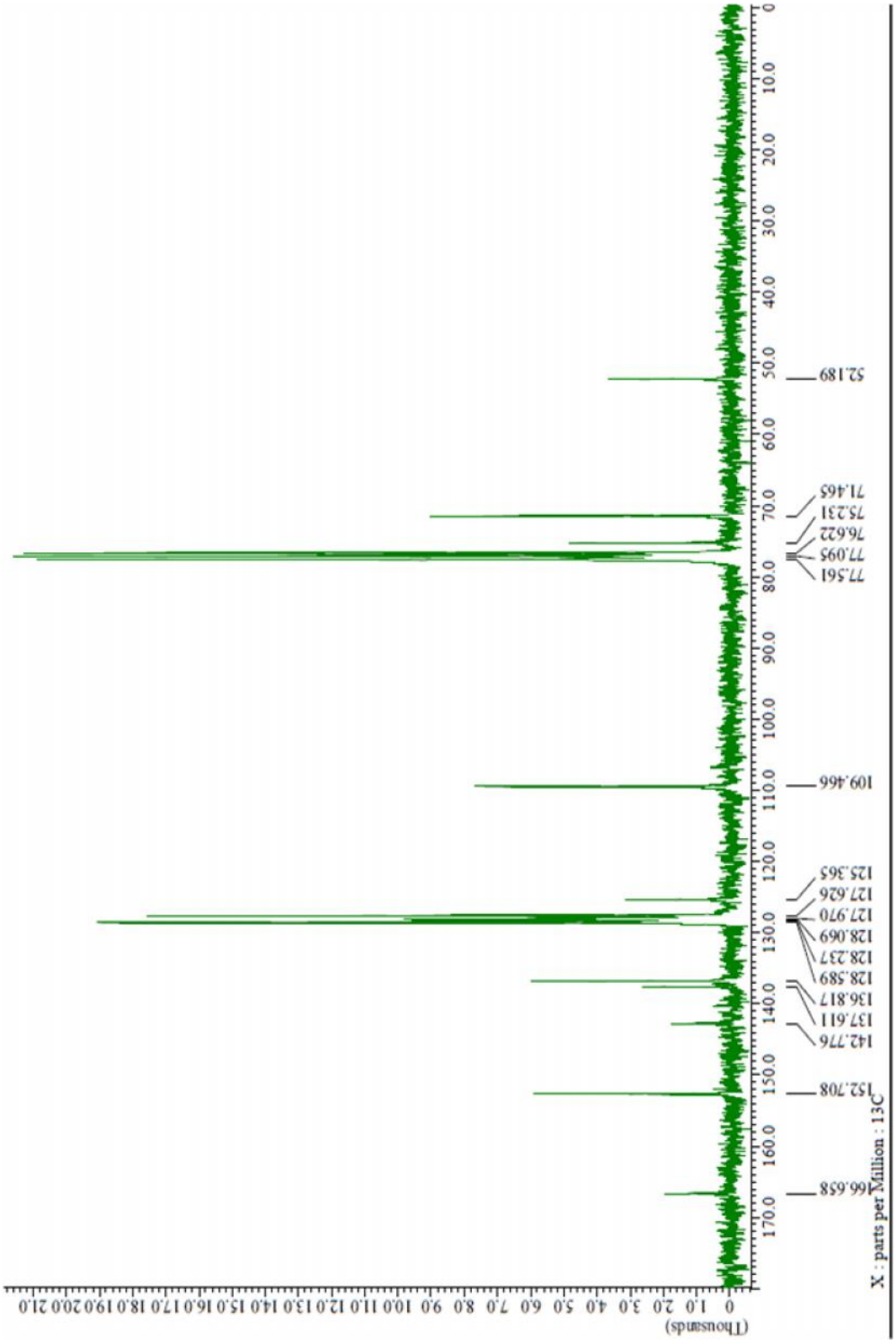
Espectro 109. Espectro RMN-^{1}H del compuesto RtE.



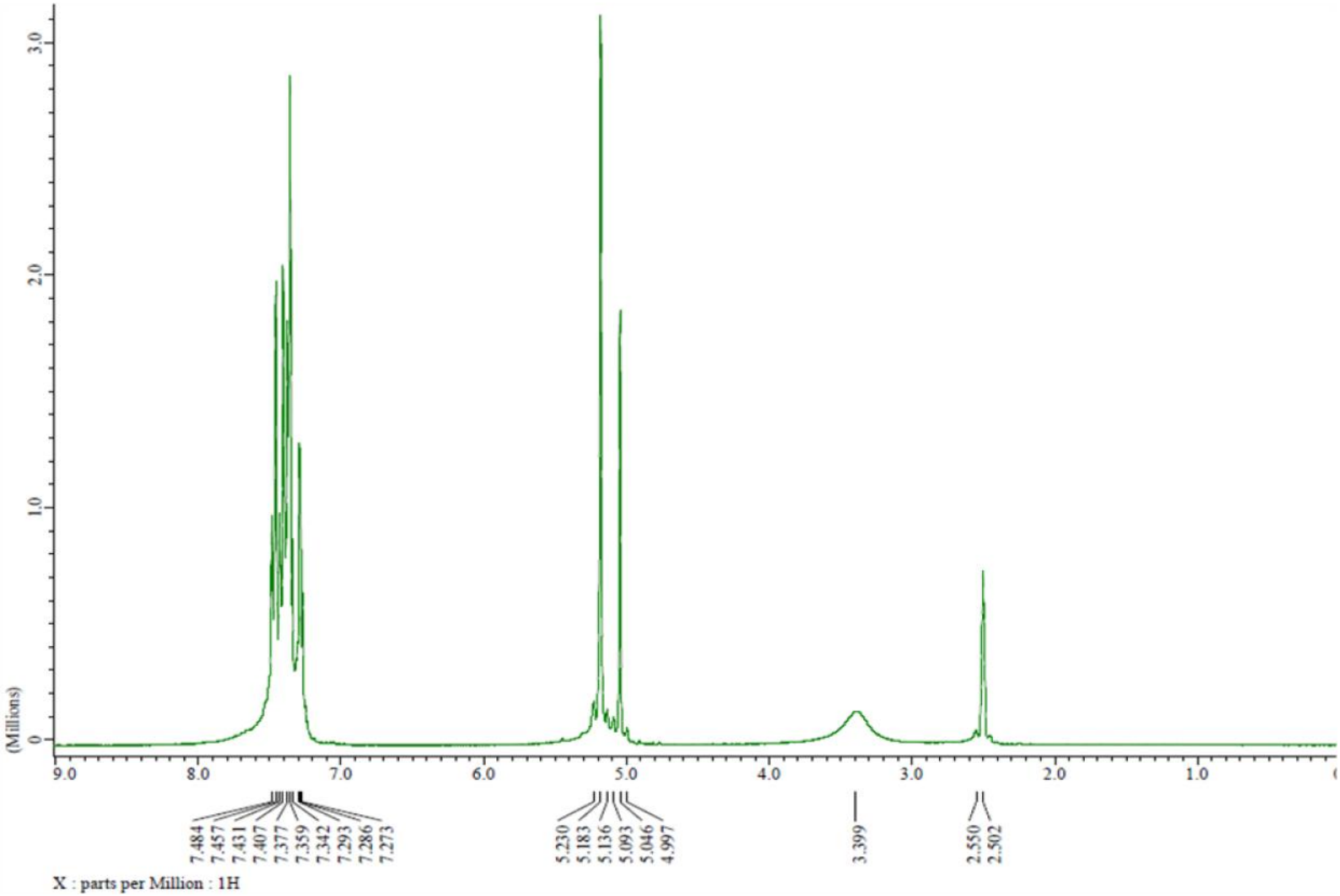
Espectro 110. Ampliación entre 2,2 y 5,0 ppm del espectro RMN-^{1}H del compuesto RtE.



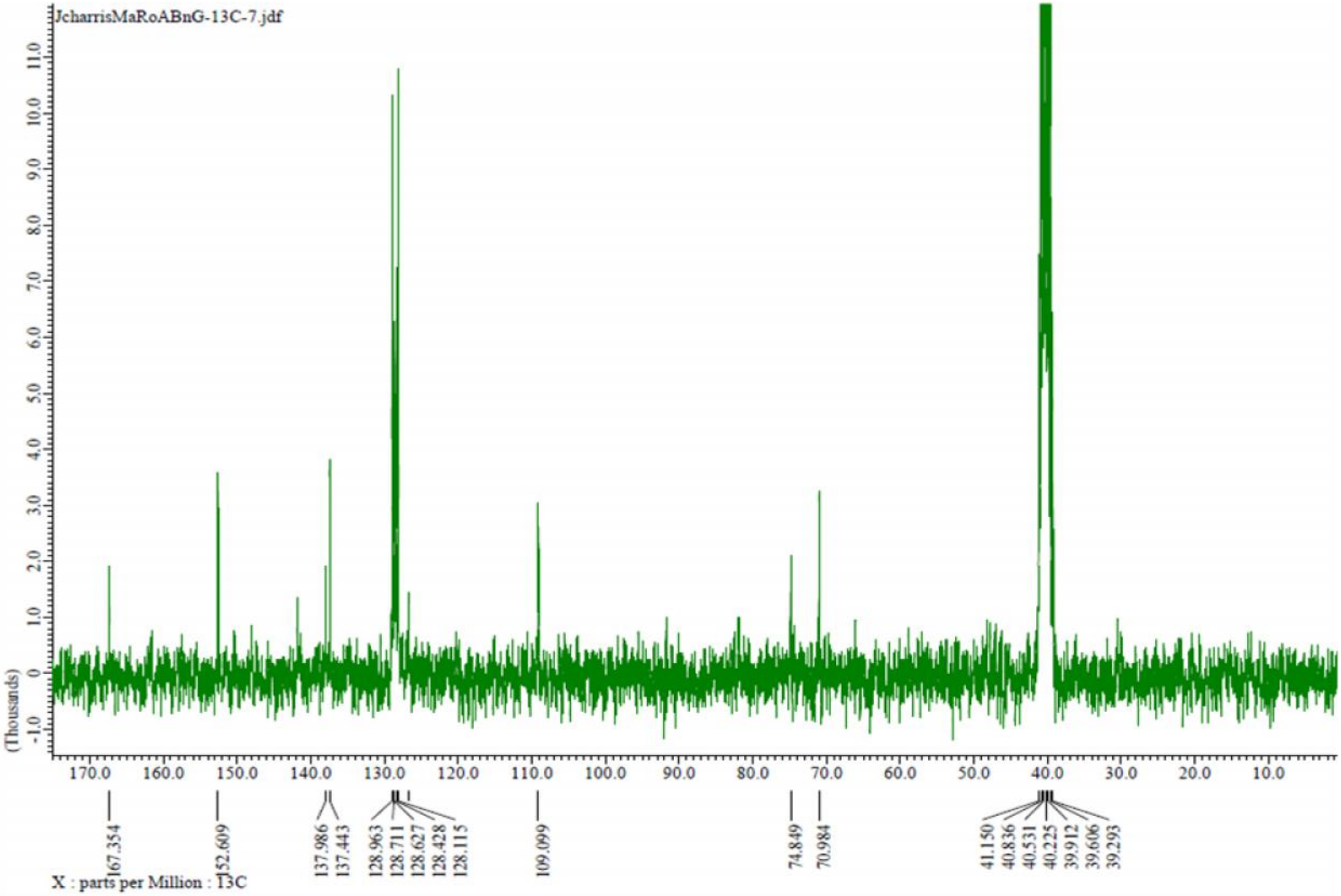
Espectro 111. Espectro RMN-^{1}H del compuesto BnGM.



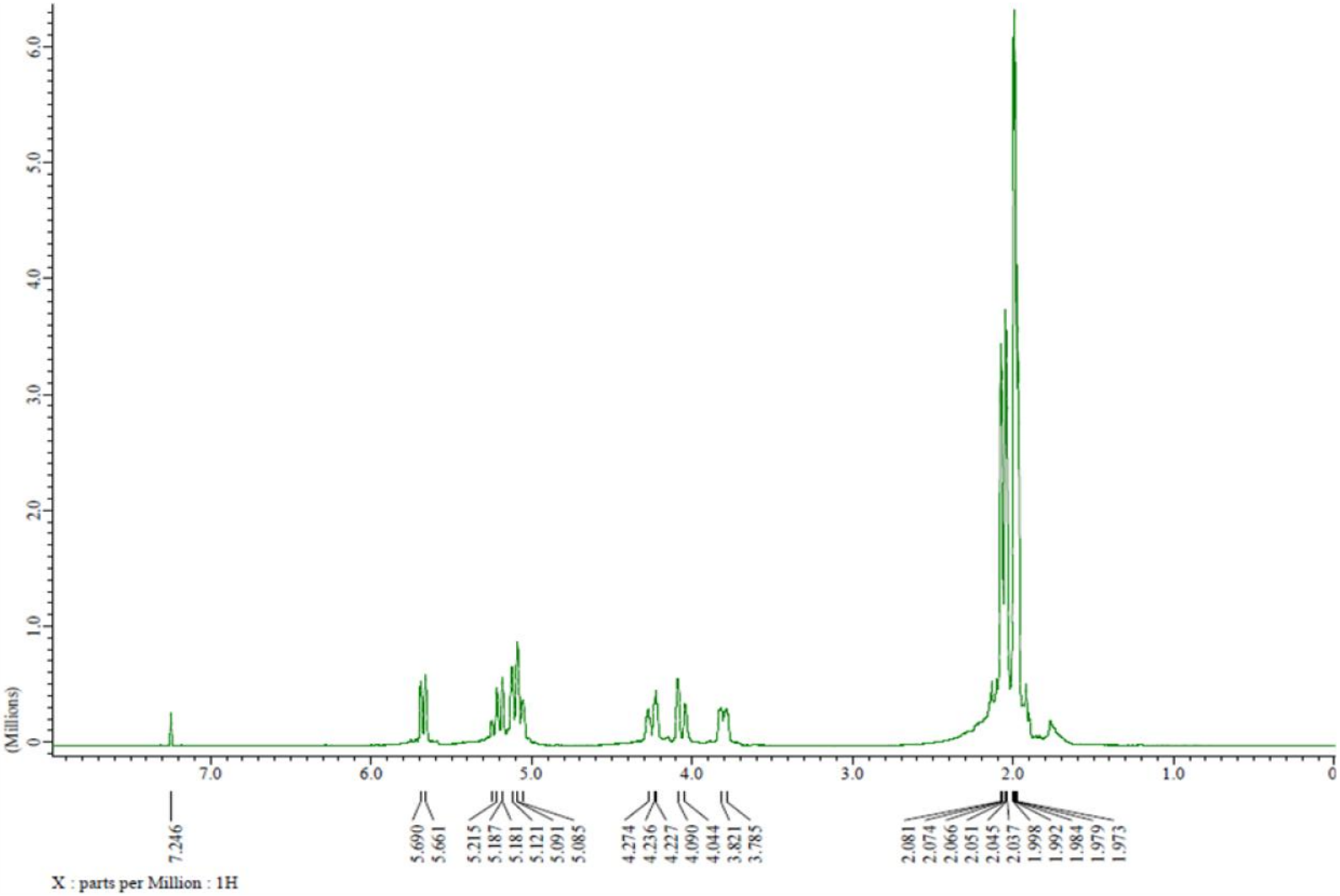
Espectro 112. Espectro RMN-^{13}C del compuesto BnGM.



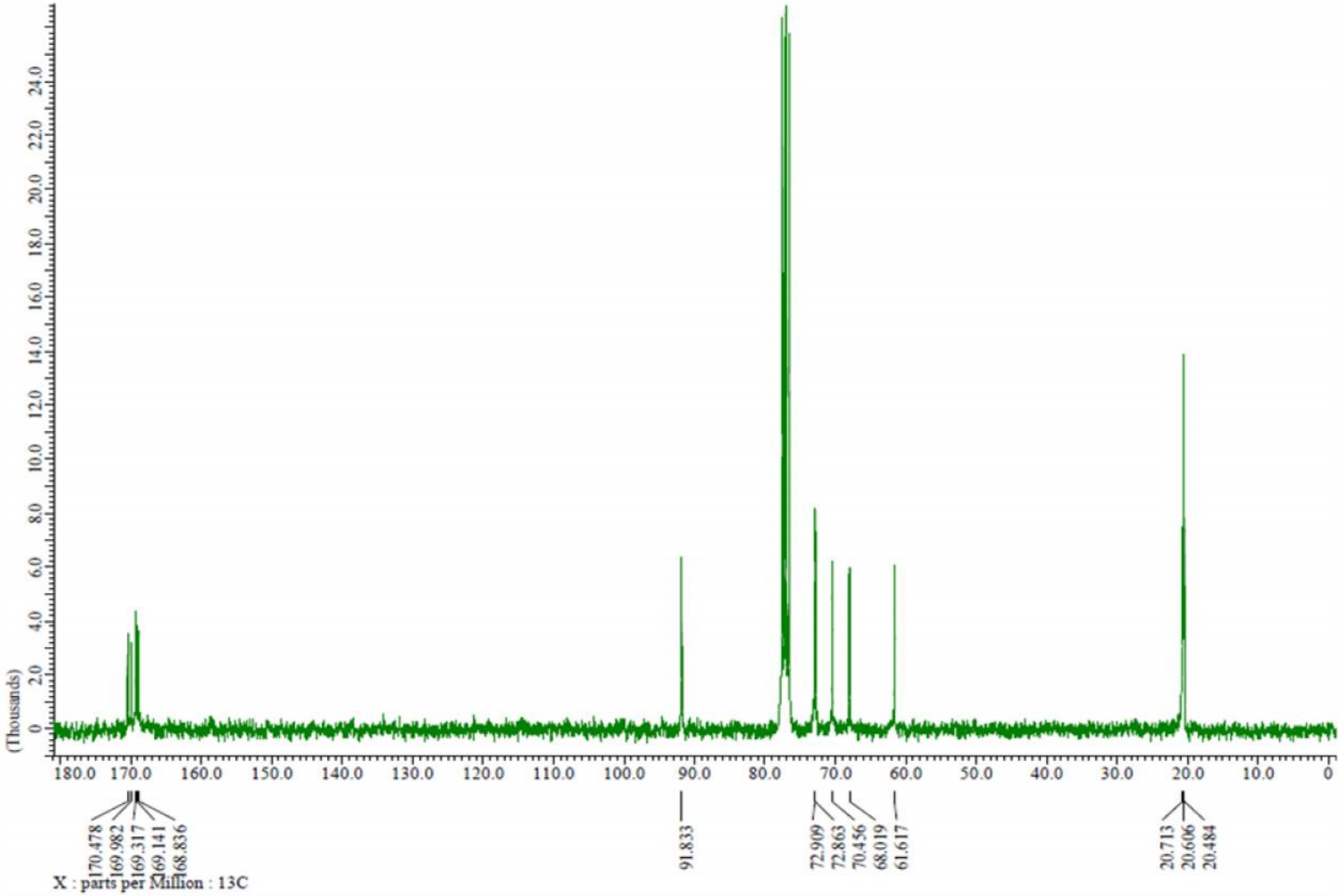
Espectro 113. Espectro RMN-^{1}H del compuesto ABnG.



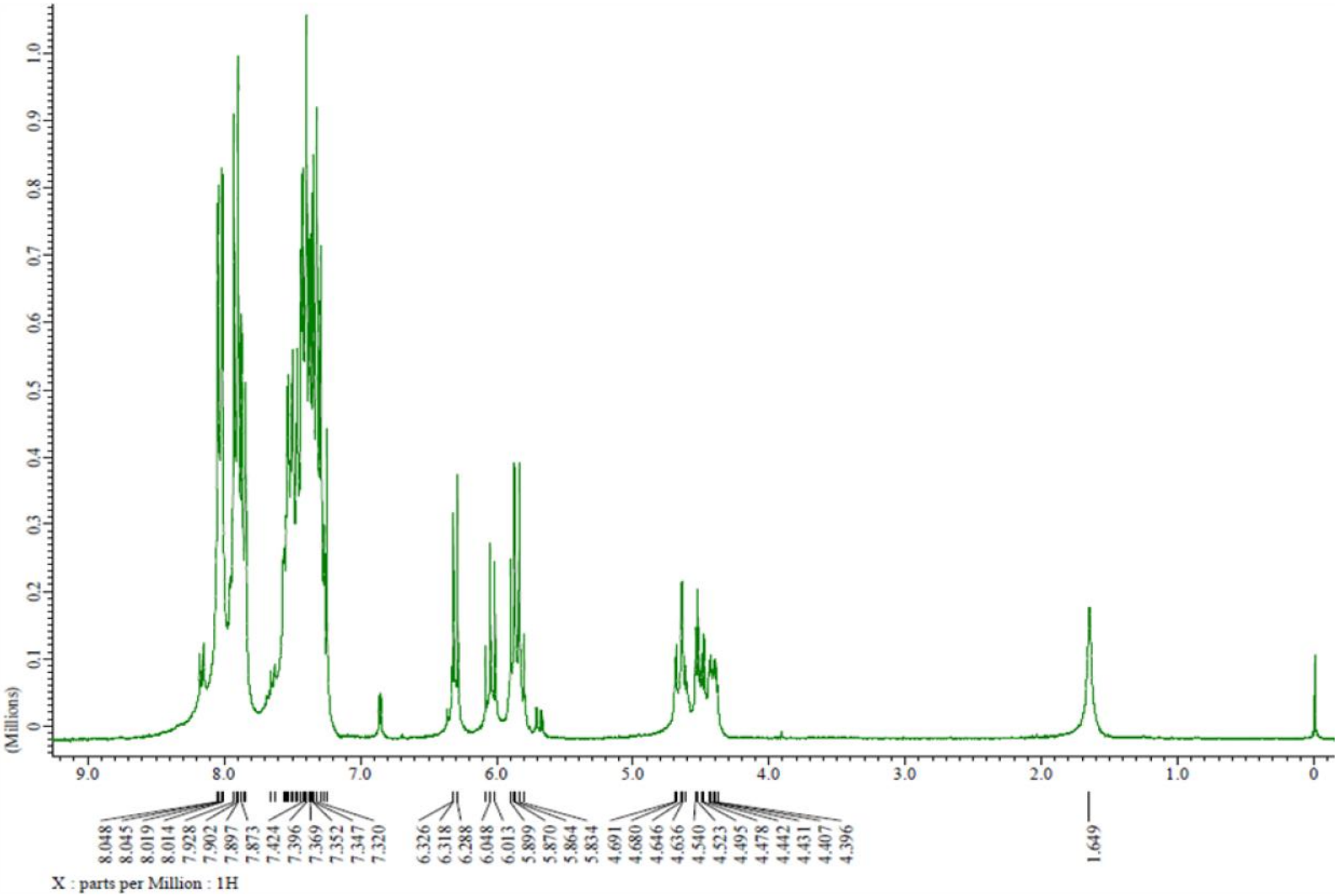
Espectro 114. Espectro RMN-^{13}C del compuesto ABnG.



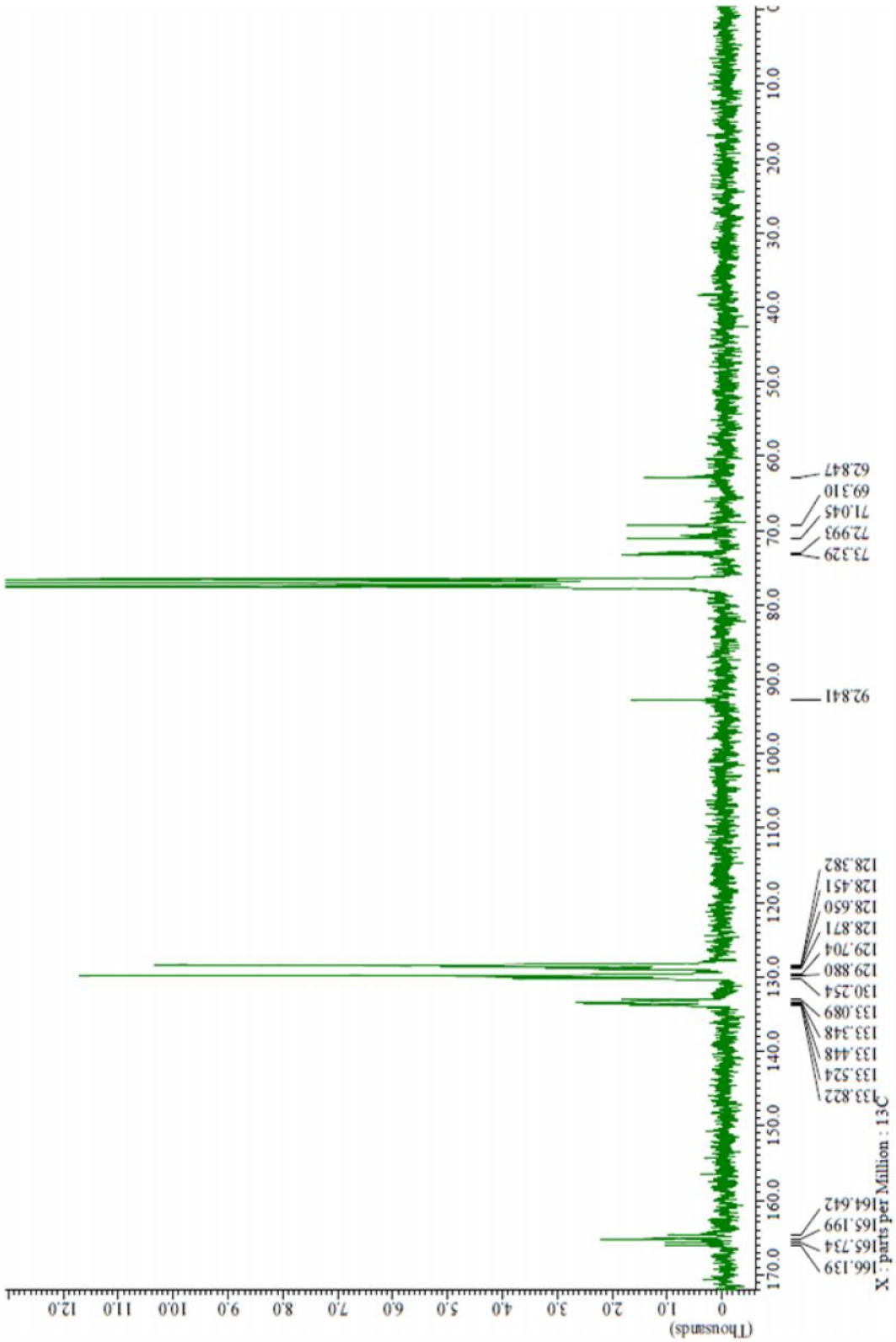
Espectro 115. Espectro RMN-^{1}H del compuesto β-PAG.



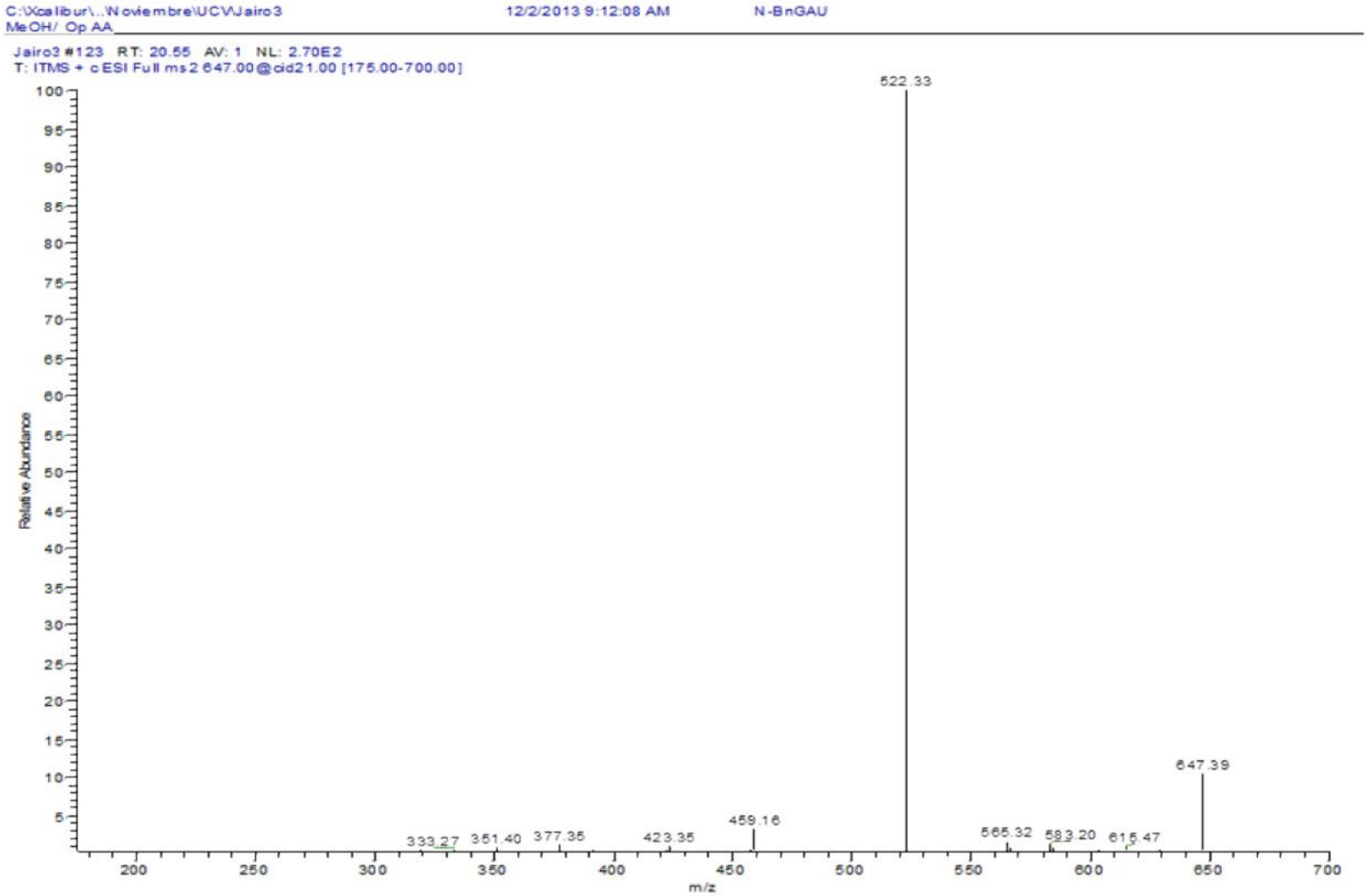
Espectro 116. Espectro RMN-^{13}C del compuesto β-PAG.



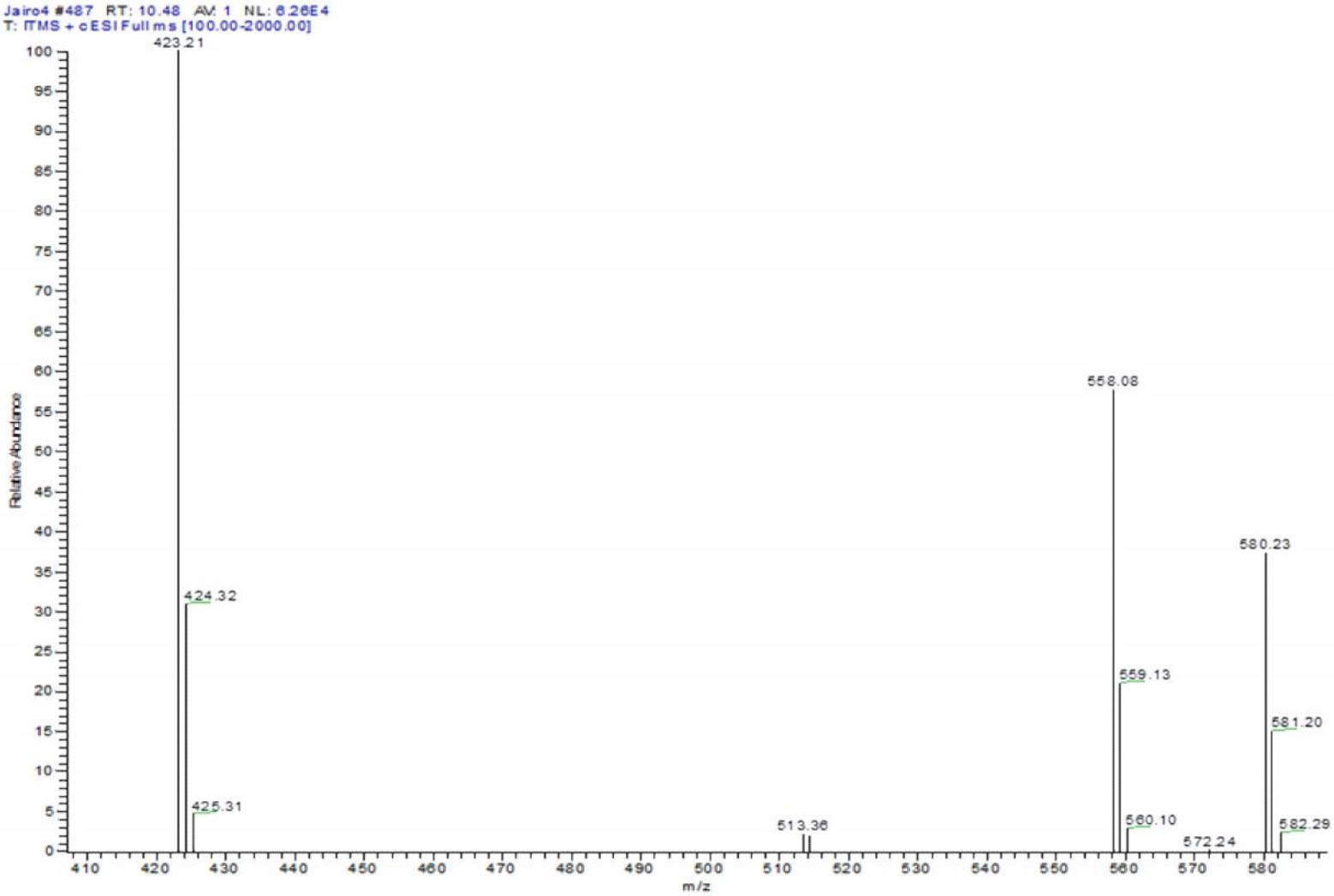
Espectro 117. Espectro RMN-^{1}H del compuesto β-PBG.



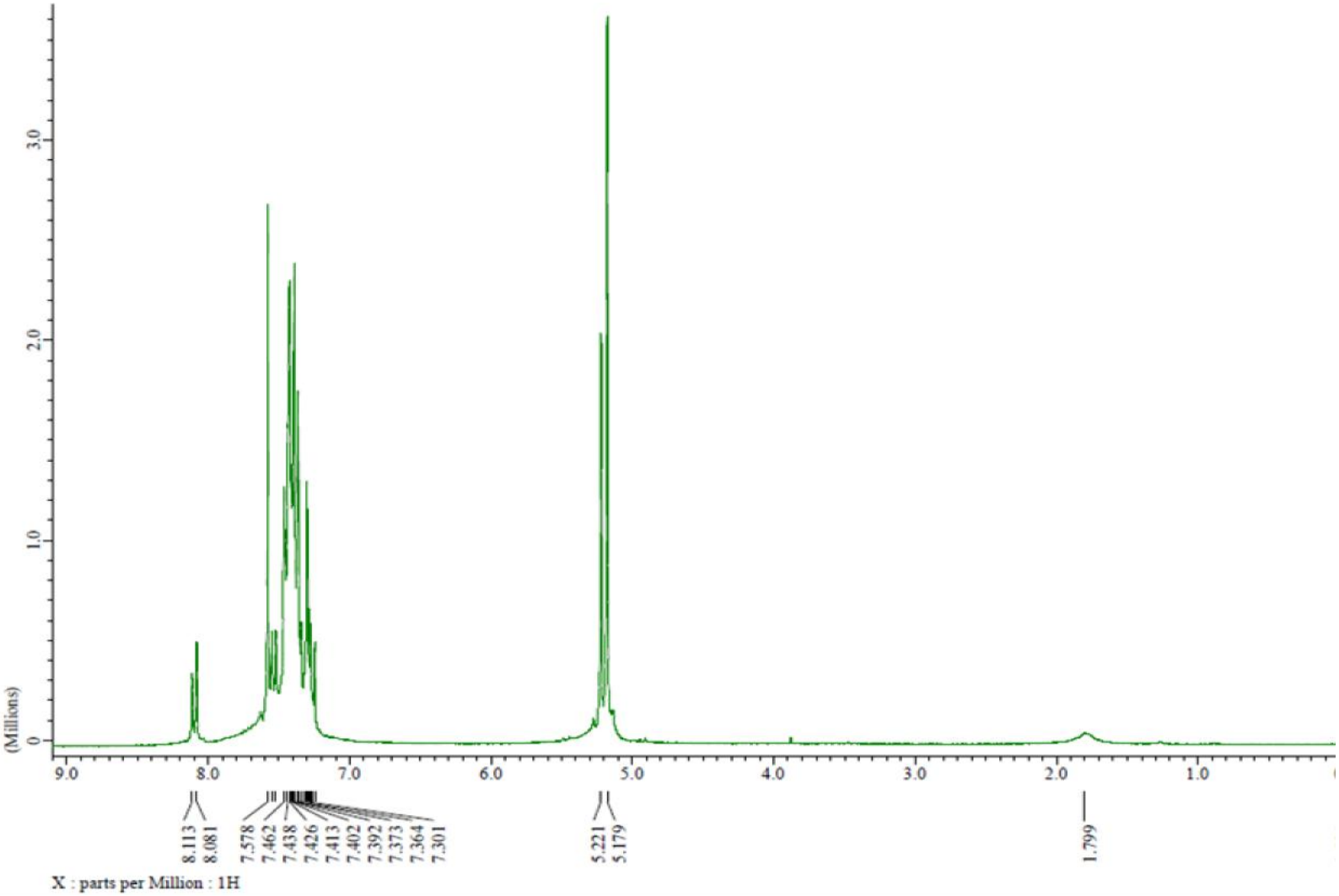
Espectro 118. Espectro RMN-^{13}C del compuesto β-PBG.



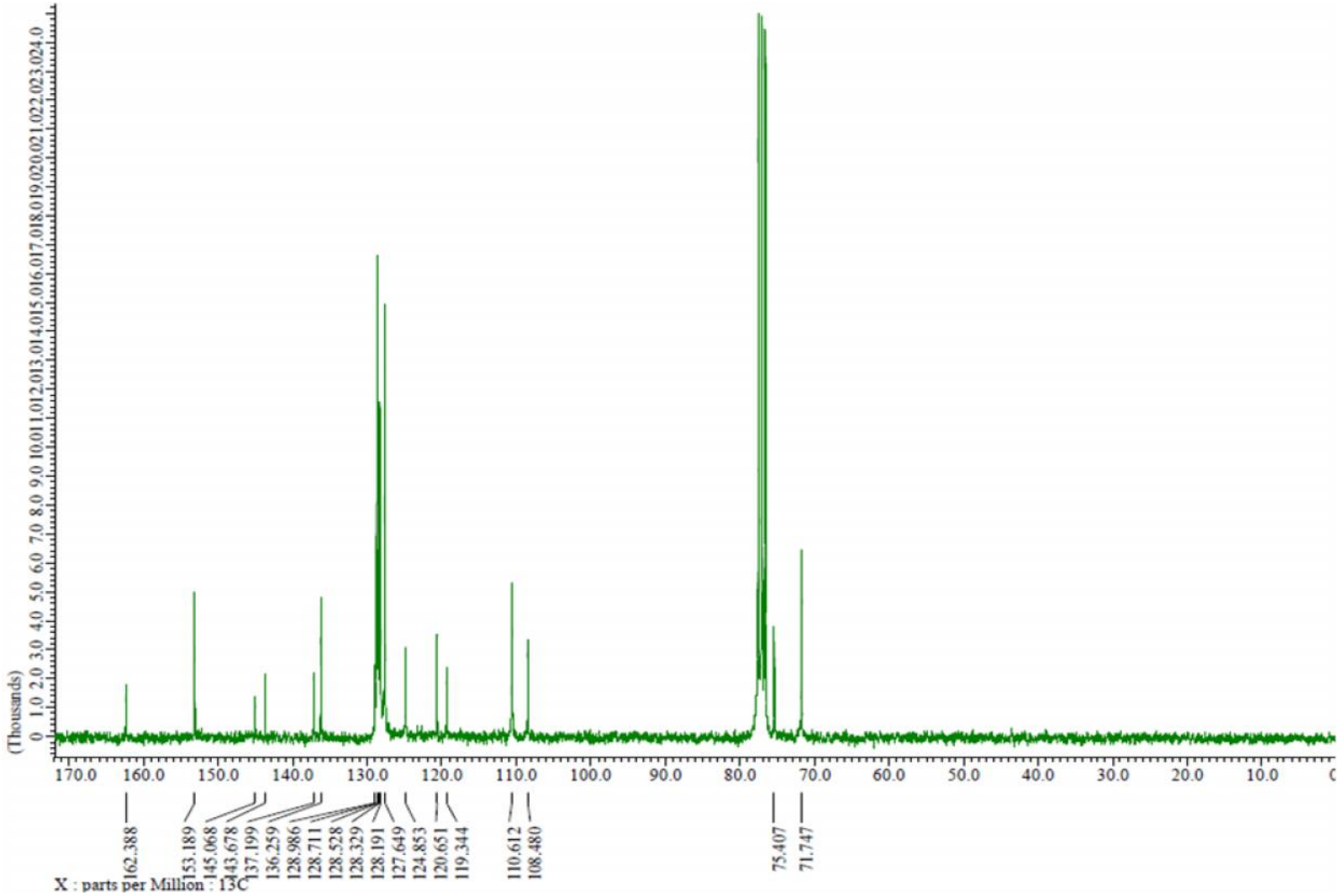
Espectro 119. EM-EM del compuesto NBnGAU.



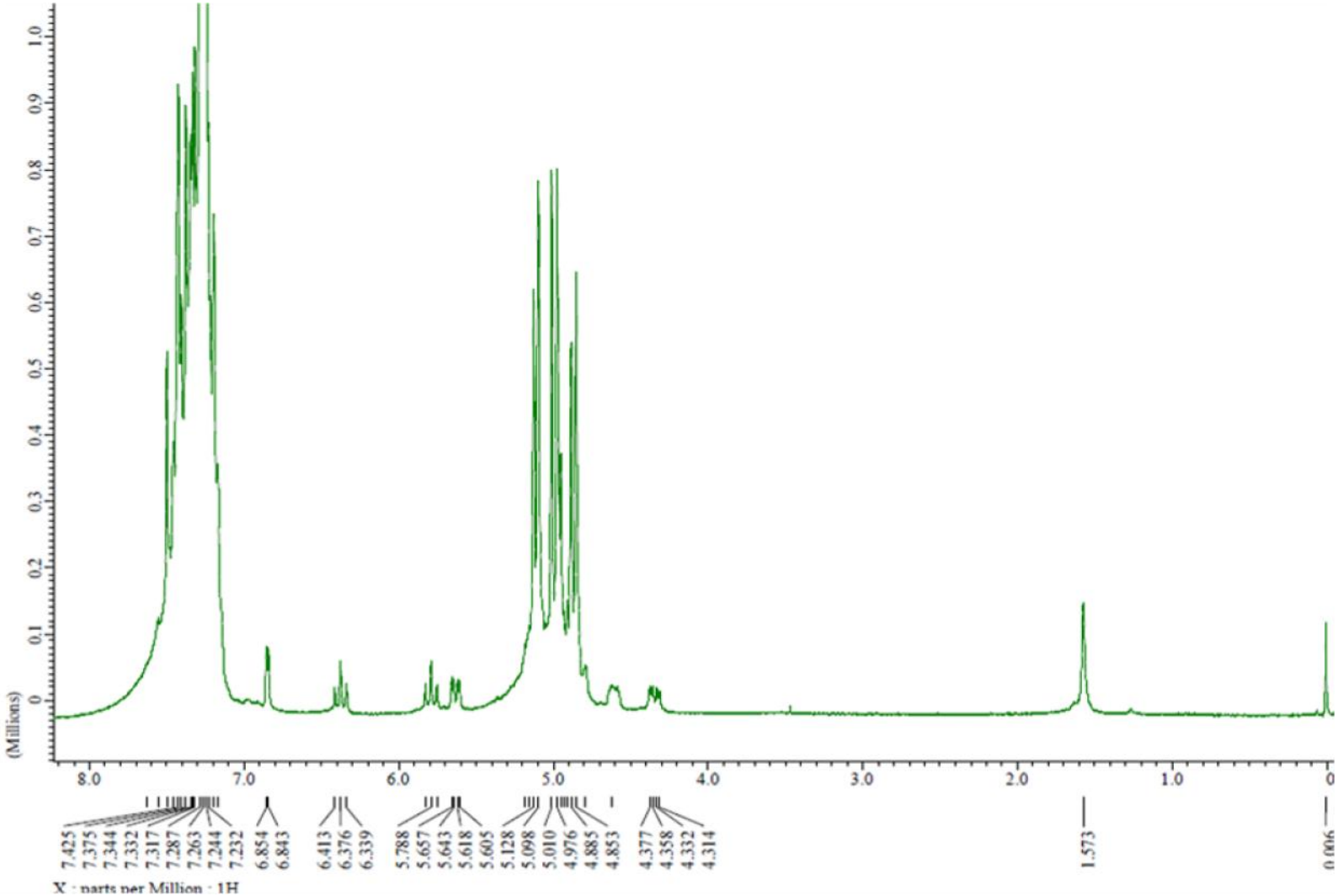
Espectro 120. EM del compuesto BnGOBt.



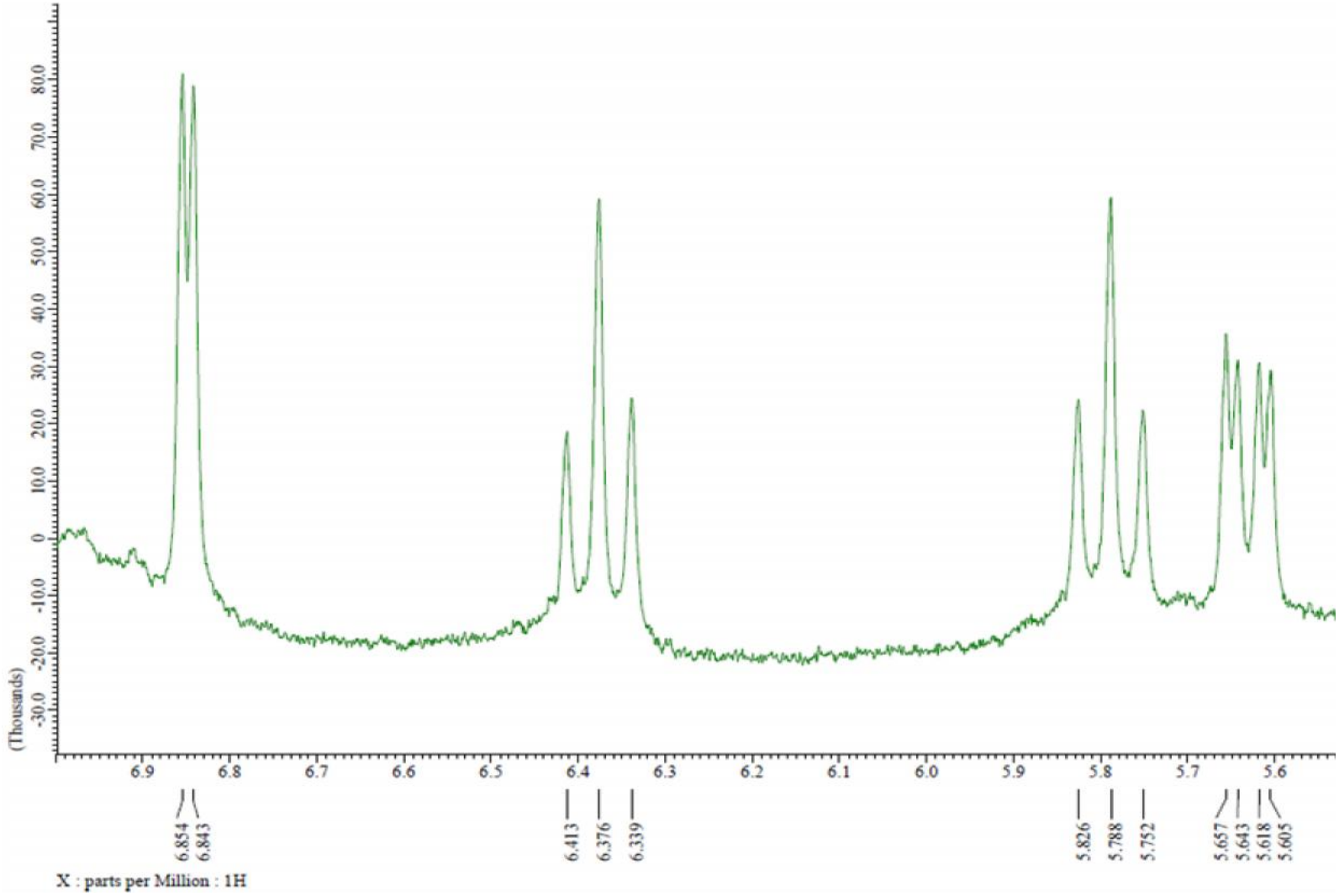
Espectro 121. Espectro RMN-^{1}H del compuesto BnGOBt.



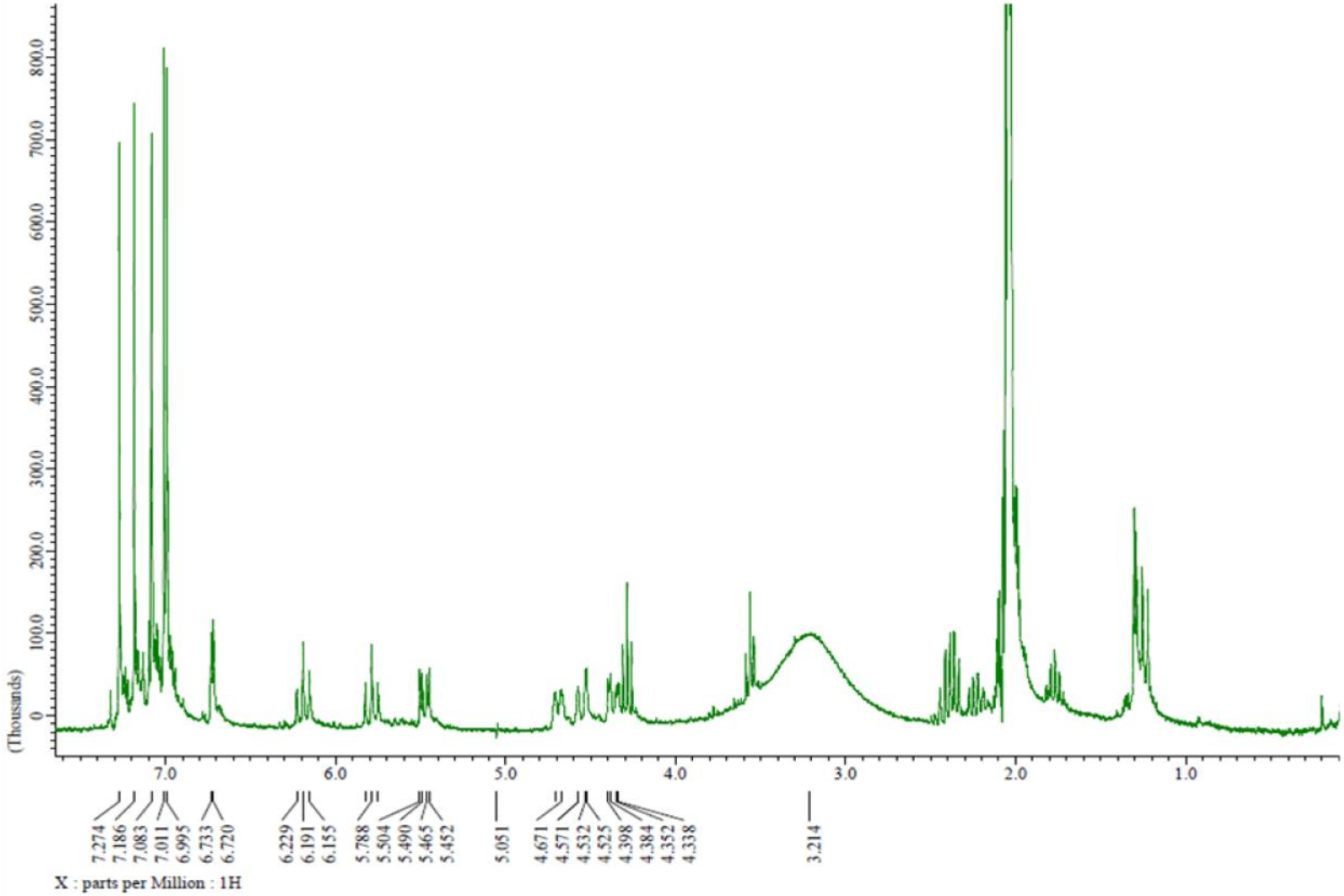
Espectro 122. Espectro RMN-^{13}C del compuesto BnGOBt.



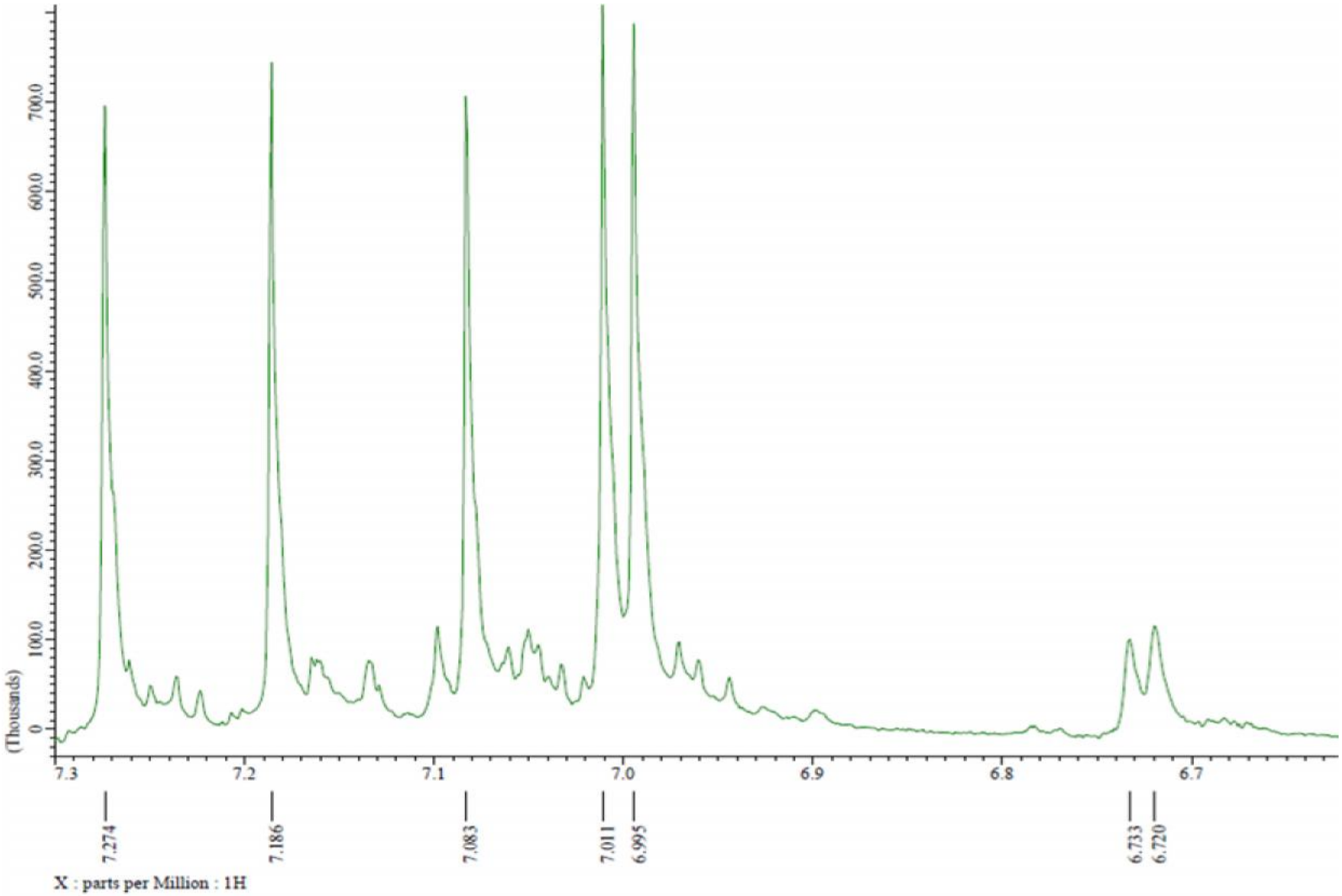
Espectro 123. Espectro RMN-^{1}H del compuesto α-PGG-Bn.



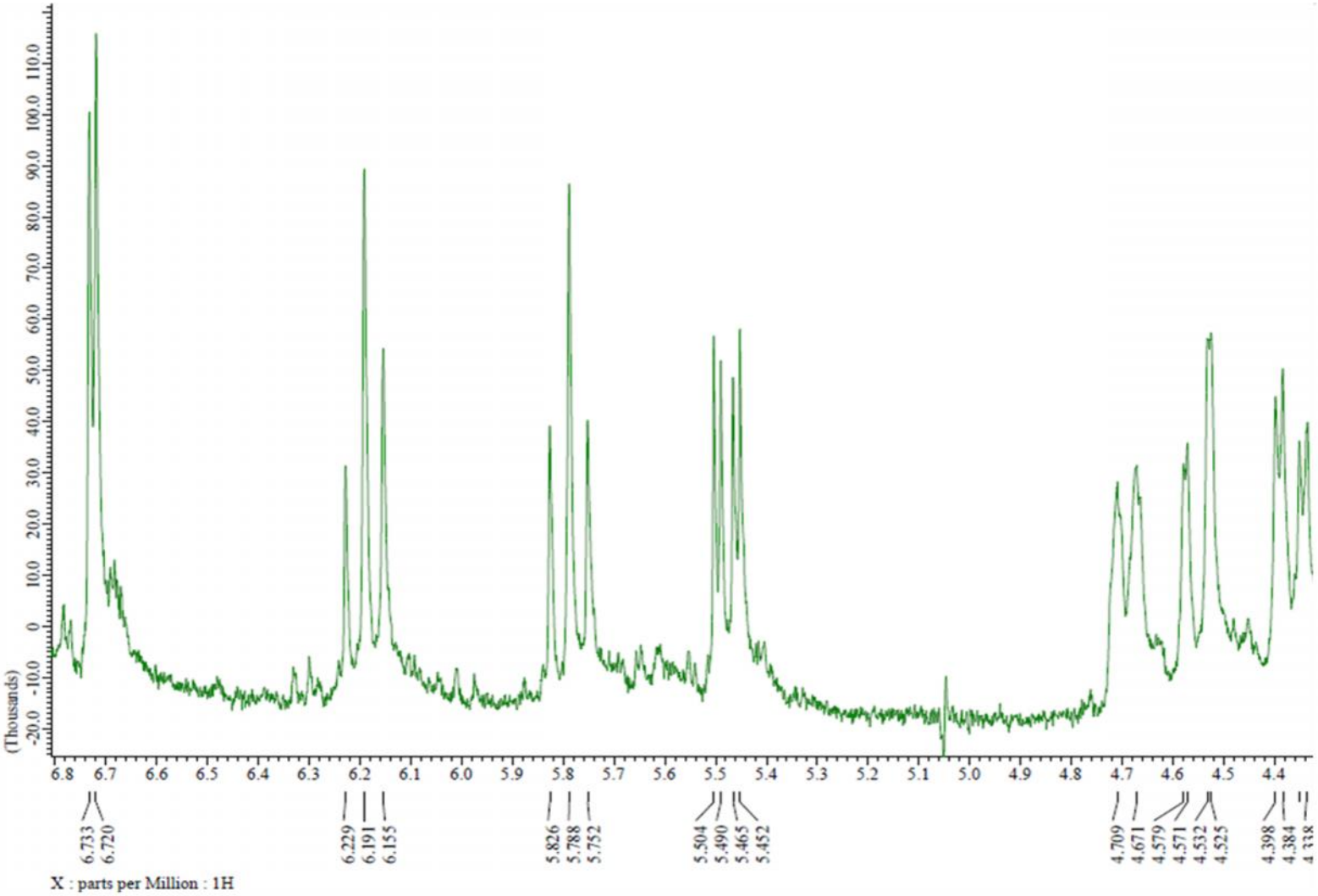
Espectro 124. Ampliación entre 5,5 y 7,0 ppm del espectro RMN-^{1}H del compuesto α-PGG-Bn.



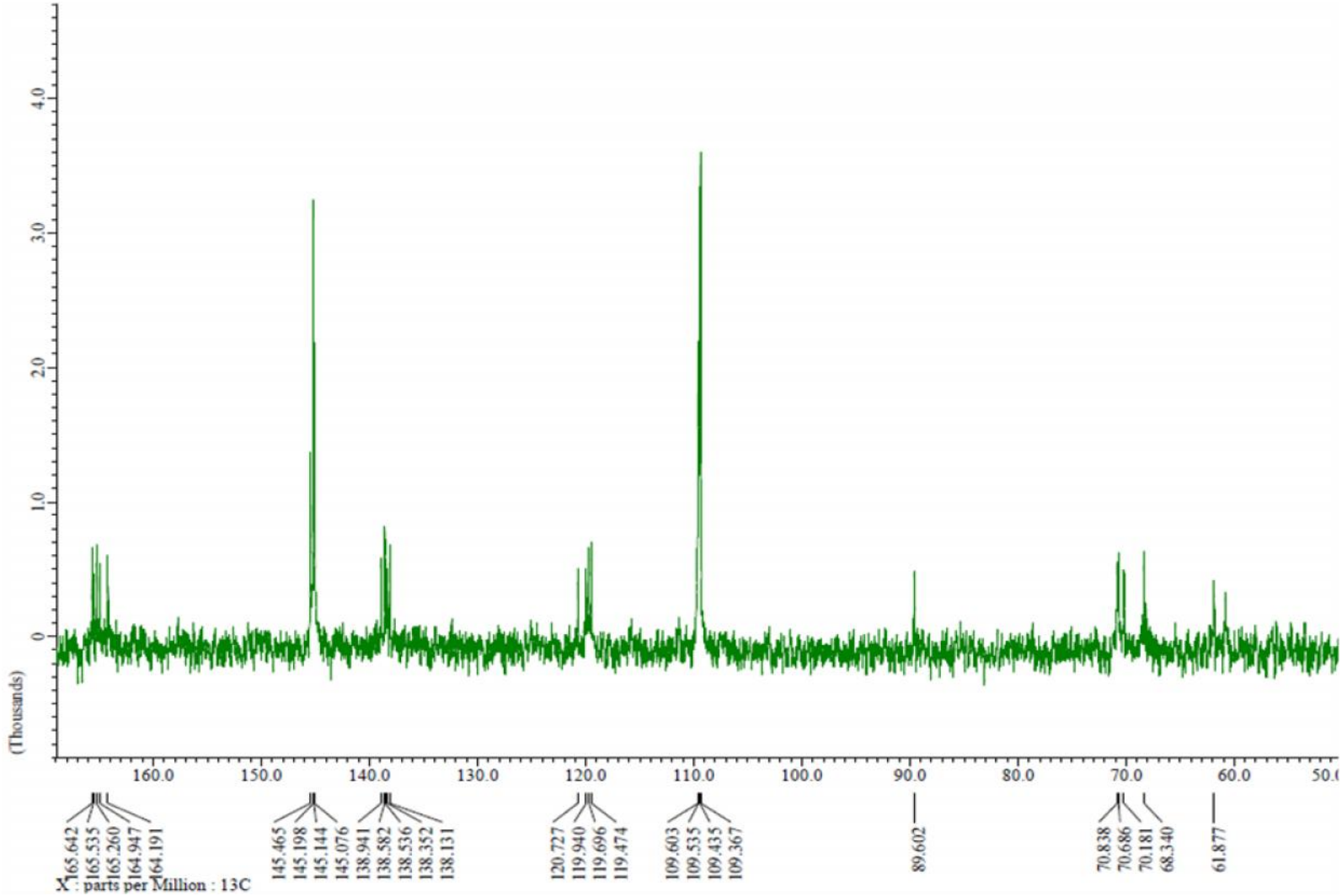
Espectro 125. Espectro RMN-^{1}H del compuesto α-PGG.



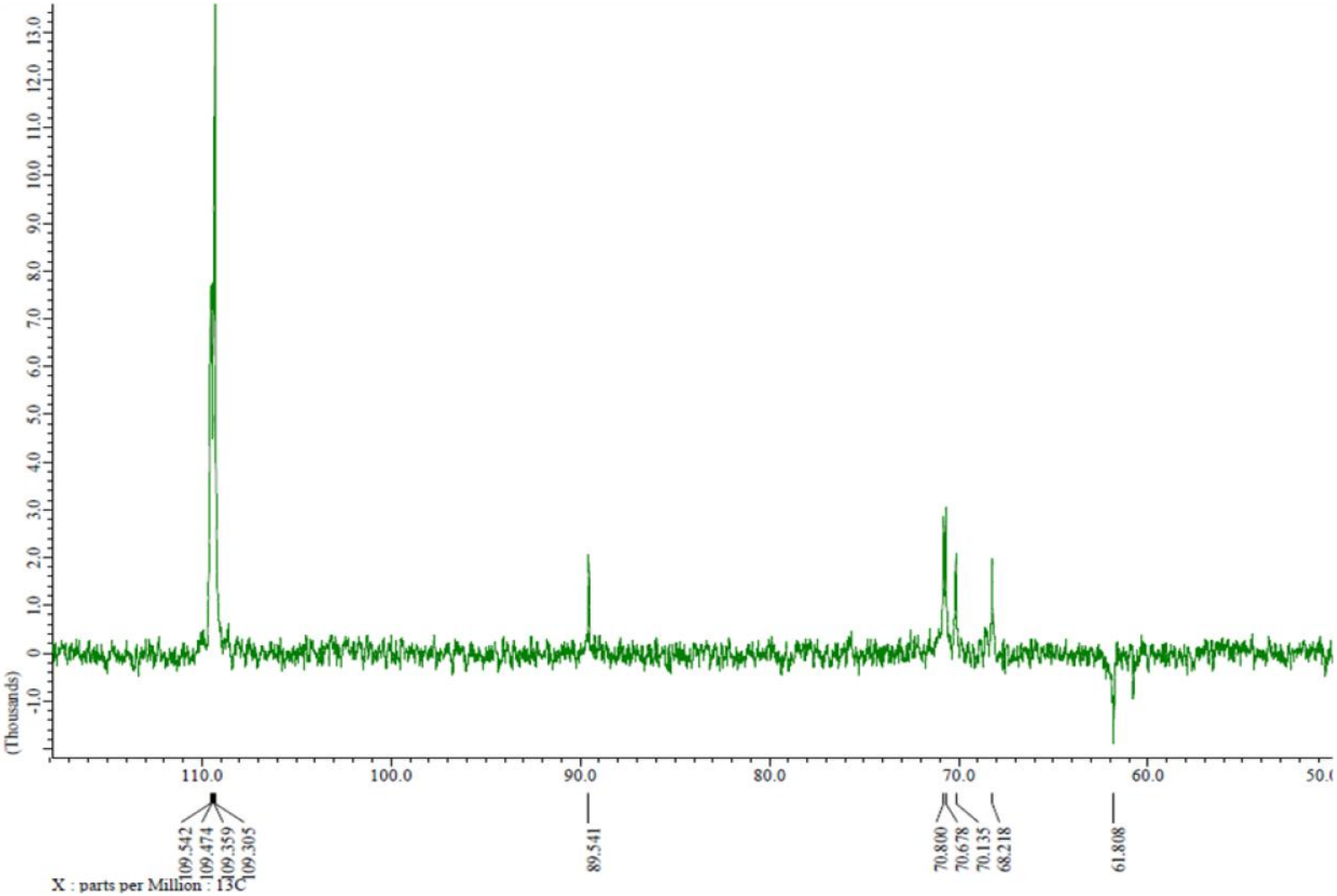
Espectro 126. Ampliación entre 6,6 y 7,3 ppm RMN-^{13}C del compuesto α-PGG.



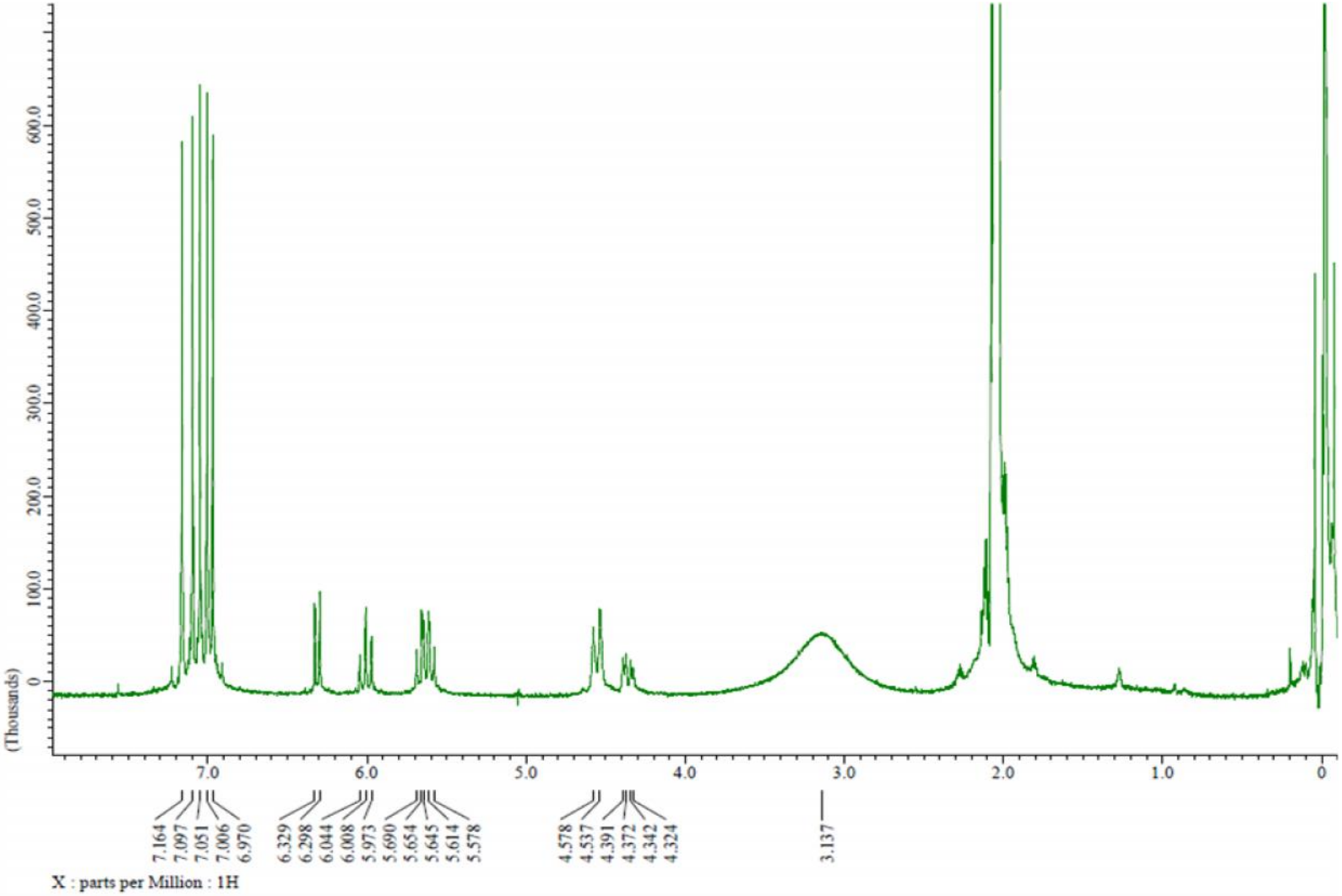
Espectro 127. Ampliación entre 4,3 y 6,8 ppm RMN-^{13}C del compuesto α-PGG



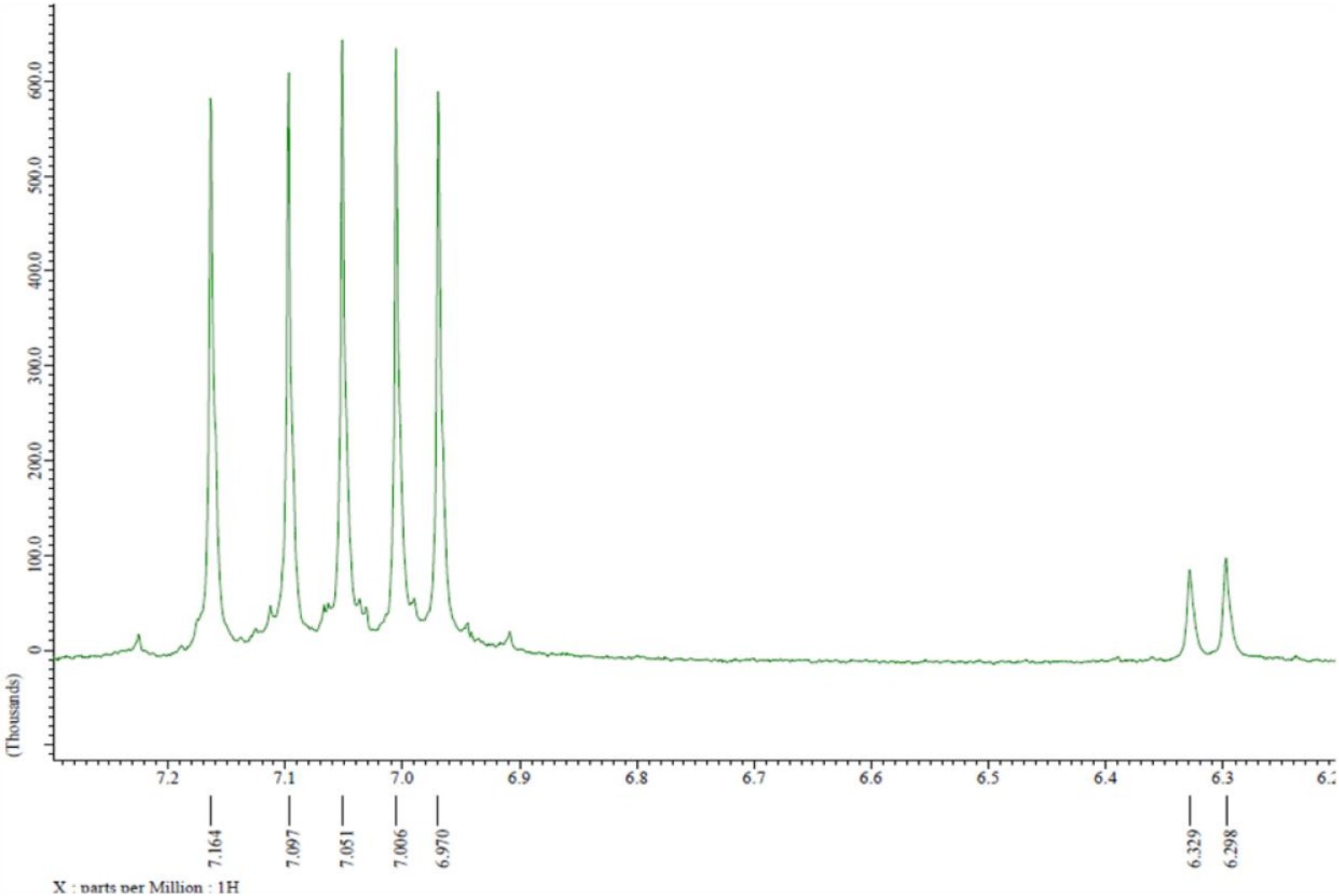
Espectro 128. Espectro RMN-^{13}C del compuesto α-PGG.



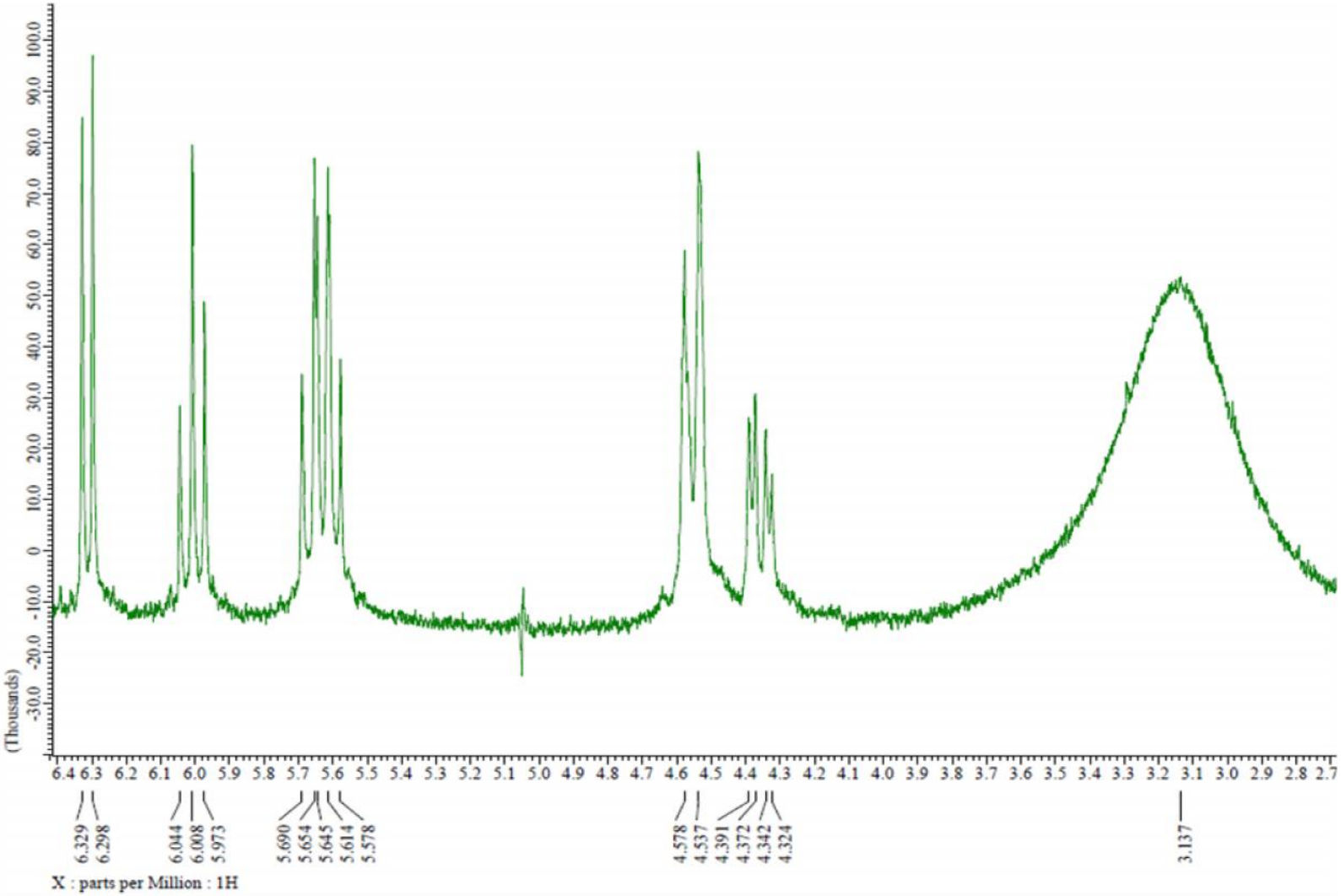
Espectro 129. Espectro DEPT-135 del compuesto α-PGG.



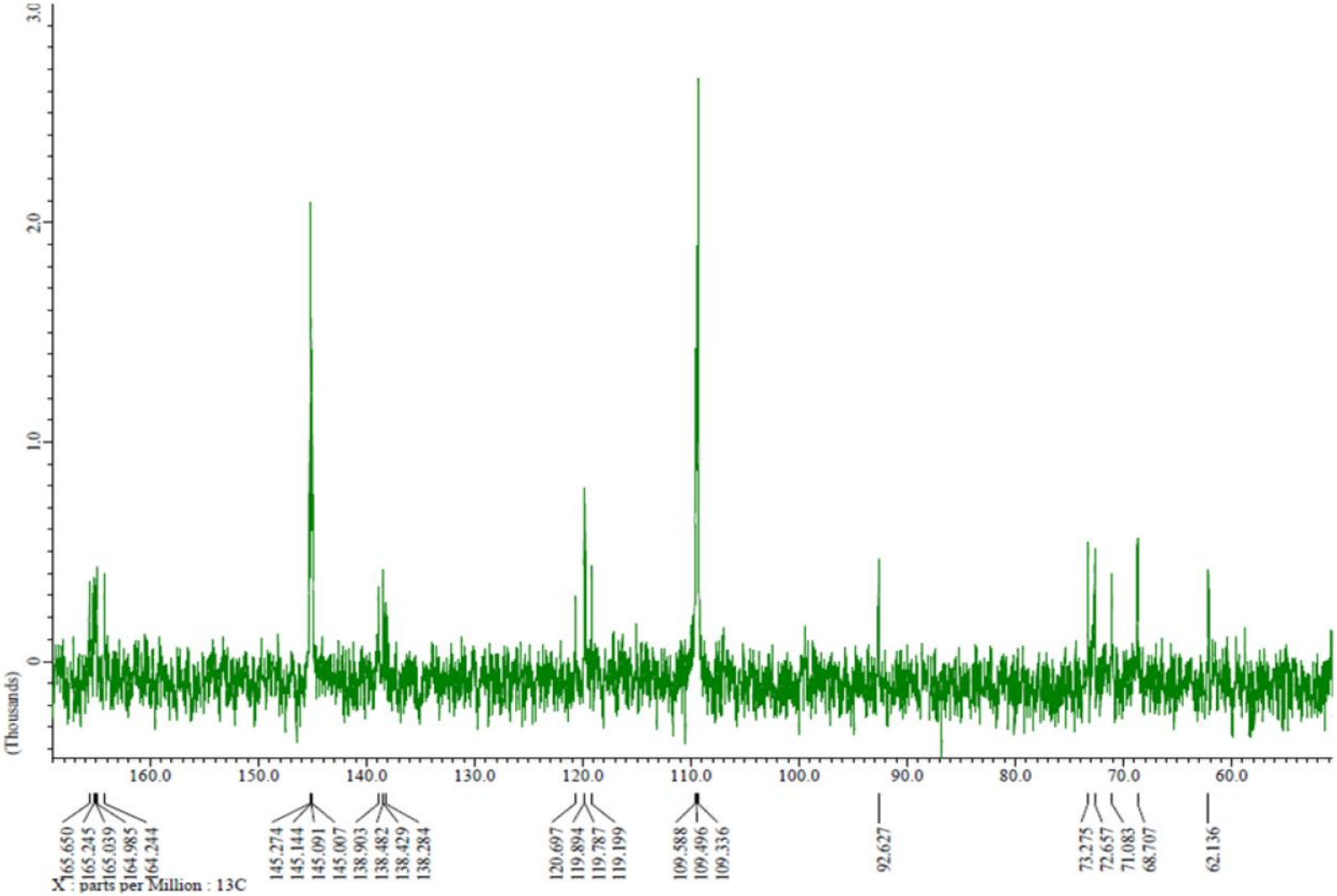
Espectro 130. Espectro RMN-^{1}H del compuesto β-PGG.



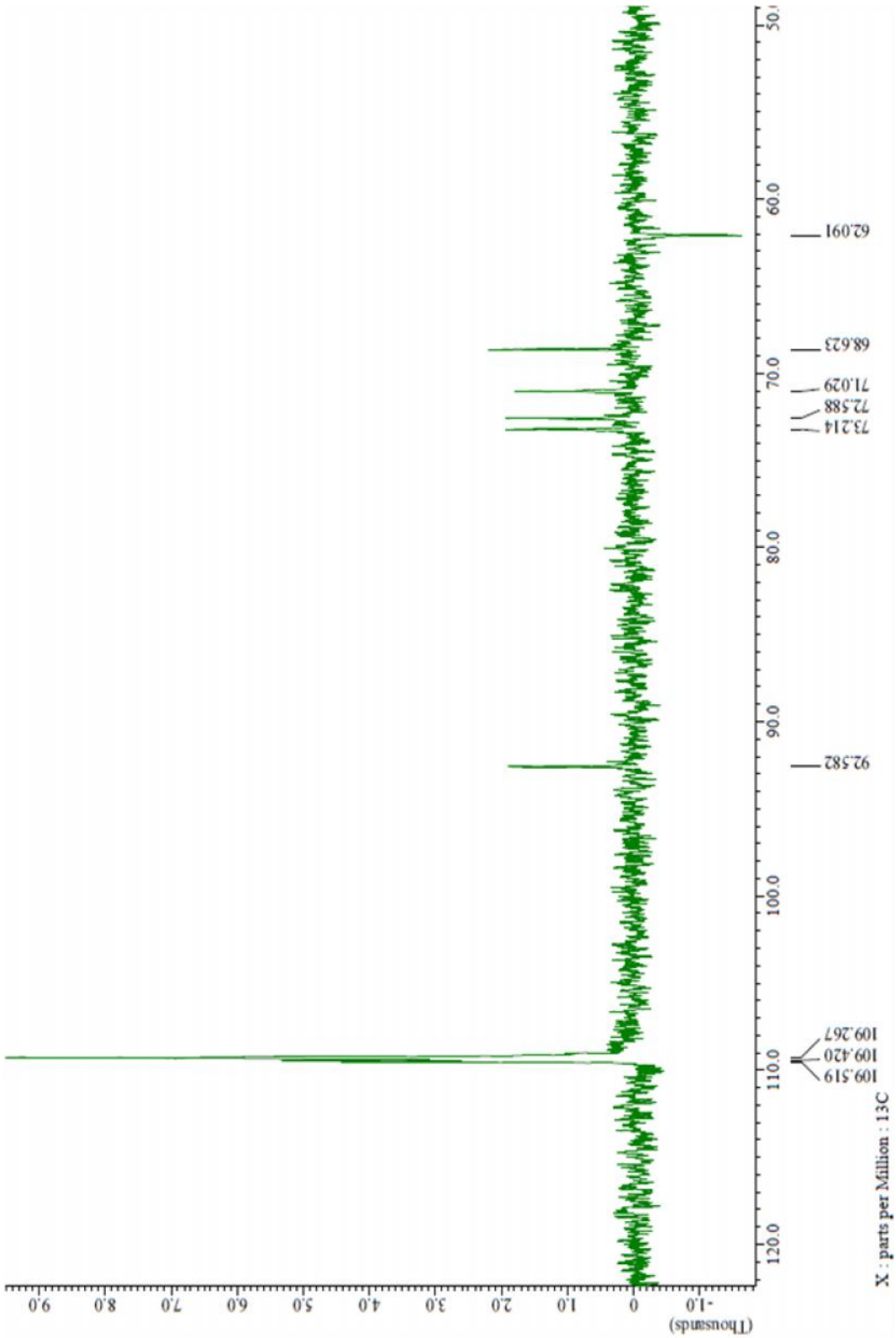
Espectro 131. Ampliación entre 6,2 y 7,3 ppm RMN-^{13}C del compuesto β-PGG.



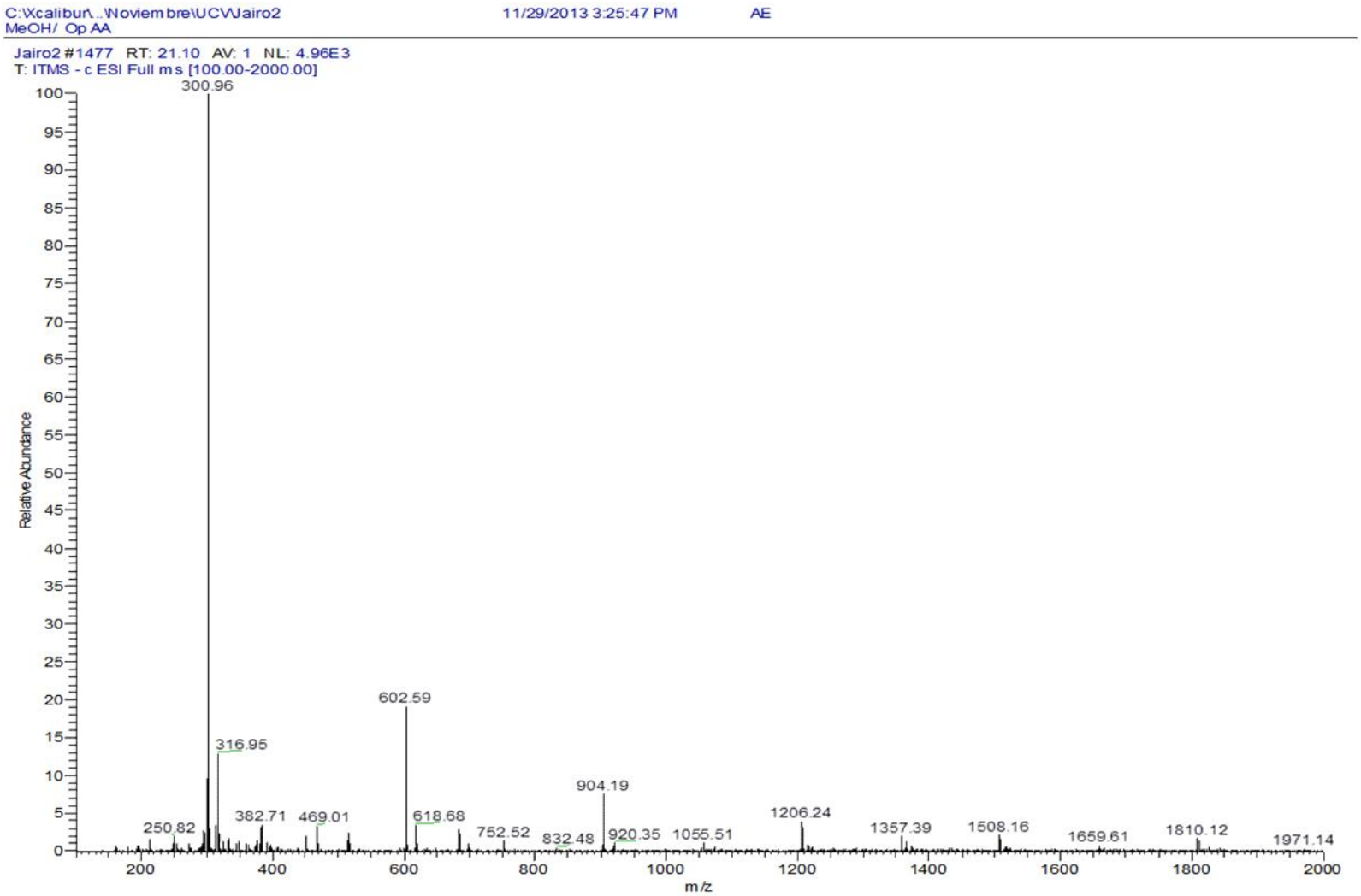
Espectro 132. Ampliación entre 2,7 y 6,4 ppm RMN-^{13}C del compuesto β-PGG



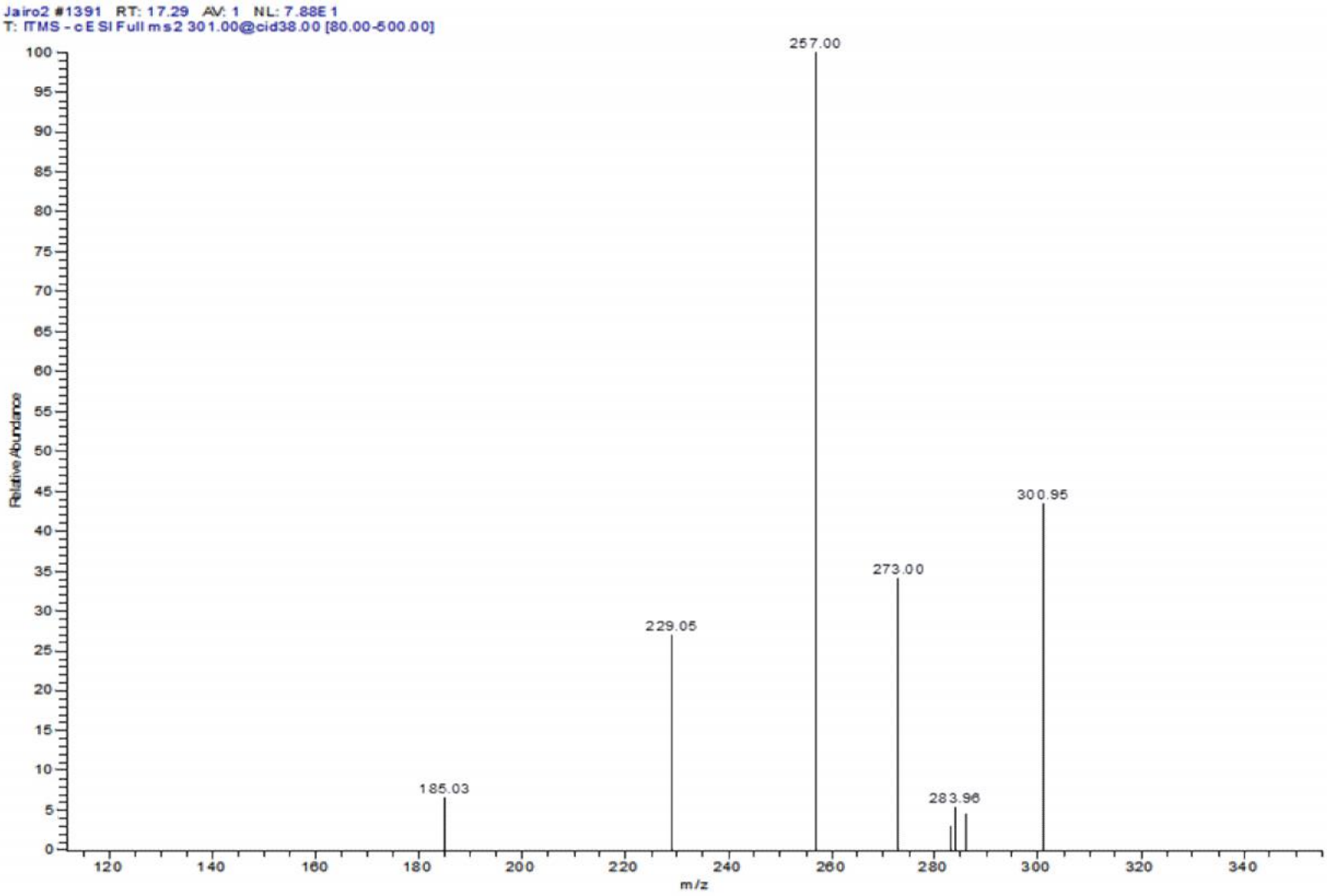
Espectro 133. Espectro RMN-^{13}C del compuesto β-PGG.



Espectro 134. Espectro DEPT-135 del compuesto β-PGG.



Espectro 135. EM del compuesto AE.



Espectro 136. EM-EM del compuesto AE.