

Electronic Supplementary Information

Synthesis and antiproliferative evaluation of new zampanolide mimics

Guanglin Chen^a, Manee Patanapongpibul^a, Ziran Jiang^a, Qiang Zhang^{b,c}, Shilong Zheng^{b,c}, Guangdi Wang^{b,c}, James D. White^d and Qiao-Hong Chen^{*a}

^aDepartment of Chemistry, California State University, Fresno, 2555 E. San Ramon Avenue, M/S SB70, Fresno, CA 93740, USA

^bDepartment of Chemistry and ^cRCMI Cancer Research Center, Xavier University of Louisiana, 1 Drexel Drive, New Orleans, LA 70125, USA

^dDepartment of Chemistry, Oregon State University, 153 Gilbert Hall, Corvallis, OR 97331

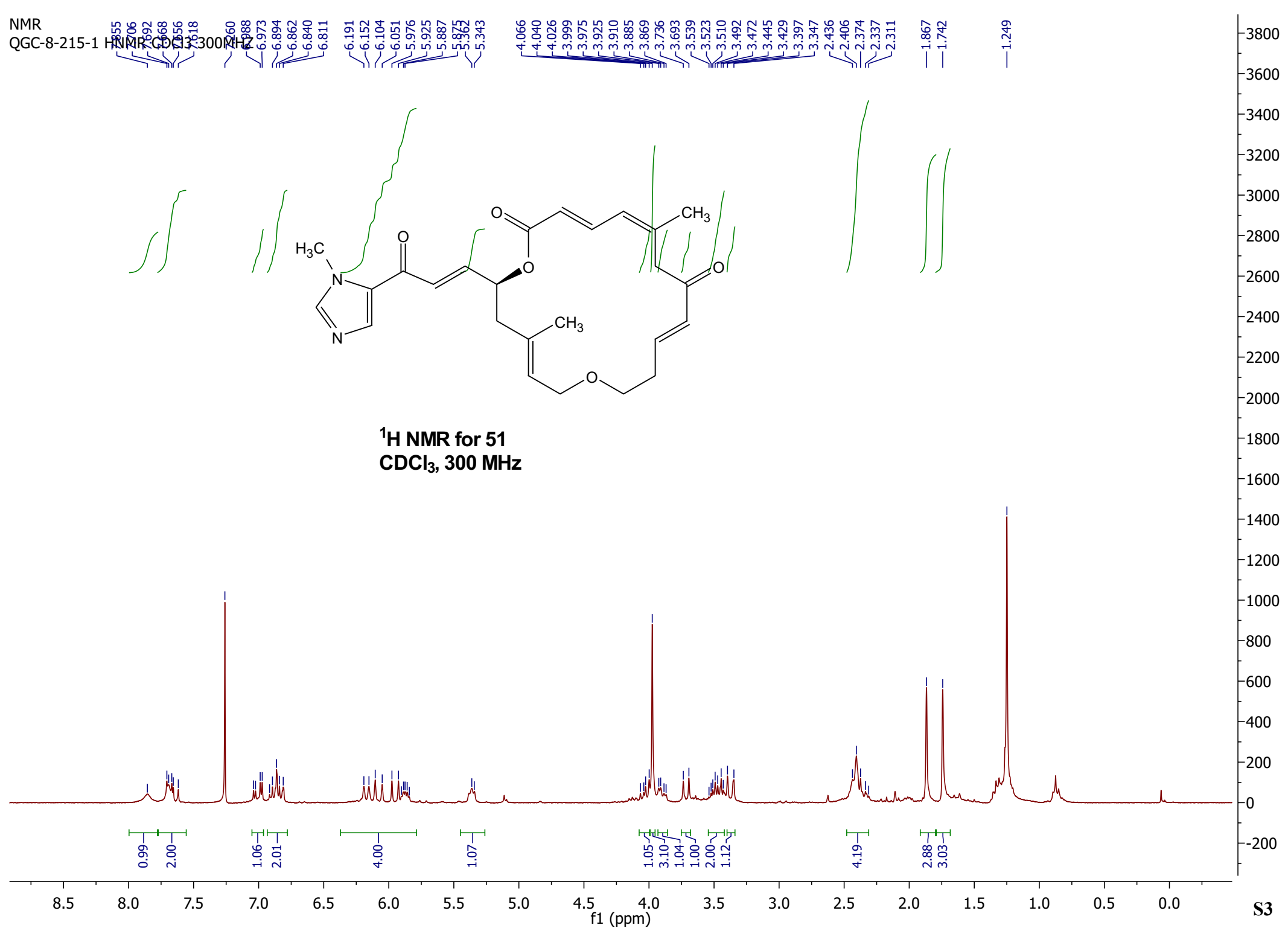
List of contents:

¹ H NMR spectrum of 51 in CDCl ₃	S3
¹³ C NMR spectrum of 51 in CDCl ₃	S4
¹ H NMR spectrum of 52 in CDCl ₃	S5
¹³ C NMR spectrum of 52 in CDCl ₃	S6
¹ H NMR spectrum of 53 in CDCl ₃	S7
¹³ C NMR spectrum of 53 in CDCl ₃	S8
¹ H NMR spectrum of 54 in CDCl ₃	S9
¹³ C NMR spectrum of 54 in CDCl ₃	S10
¹ H NMR spectrum of 55 in CDCl ₃	S11
¹³ C NMR spectrum of 55 in CDCl ₃	S12
¹ H NMR spectrum of 56 in CDCl ₃	S13
¹³ C NMR spectrum of 56 in CDCl ₃	S14
¹ H NMR spectrum of 57 in CDCl ₃	S15
¹³ C NMR spectrum of 57 in CDCl ₃	S16
¹ H NMR spectrum of 58 in CDCl ₃	S17

^{13}C NMR spectrum of 58 in CDCl_3	S18
^1H NMR spectrum of 59 in CDCl_3	S19
^{13}C NMR spectrum of 59 in CDCl_3	S20
^1H NMR spectrum of 60 in CDCl_3	S21
^{13}C NMR spectrum of 60 in CDCl_3	S22
^1H NMR spectrum of 61 in CDCl_3	S23
^{13}C NMR spectrum of 61 in CDCl_3	S24
^1H NMR spectrum of 62 in CDCl_3	S25
^{13}C NMR spectrum of 62 in CDCl_3	S26

NMR

QGC-8-215-1 H NMR, CDCl₃, 300 MHz



S3

—197.0

—179.6

—166.1

146.9

144.2

144.1

143.2

140.1

140.0

139.1

133.6

131.4

130.3

125.9

125.6

120.7

77.6

77.2

76.8

69.8

68.0

67.7

—54.0

46.0

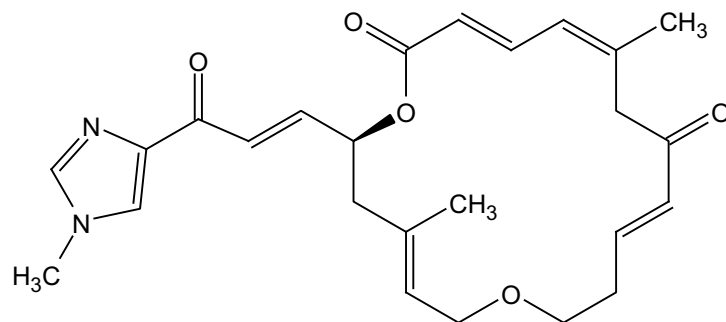
44.9

35.1

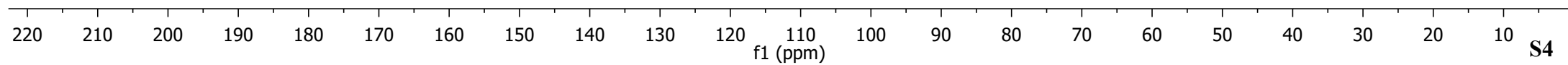
33.0

—24.3

—16.8

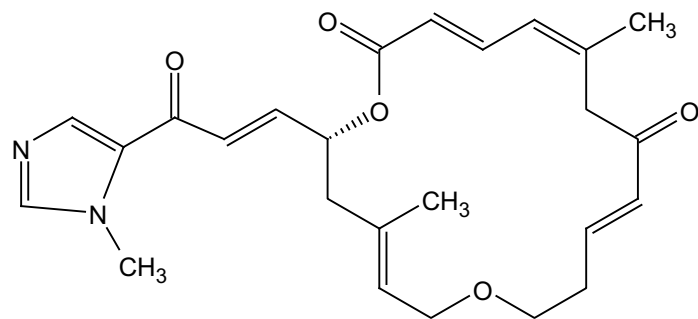
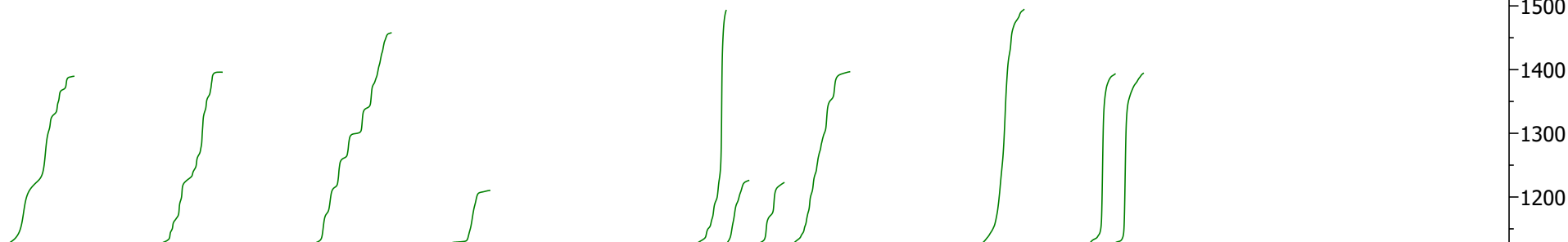


¹³C NMR for 51
CDCl₃, 75 MHz

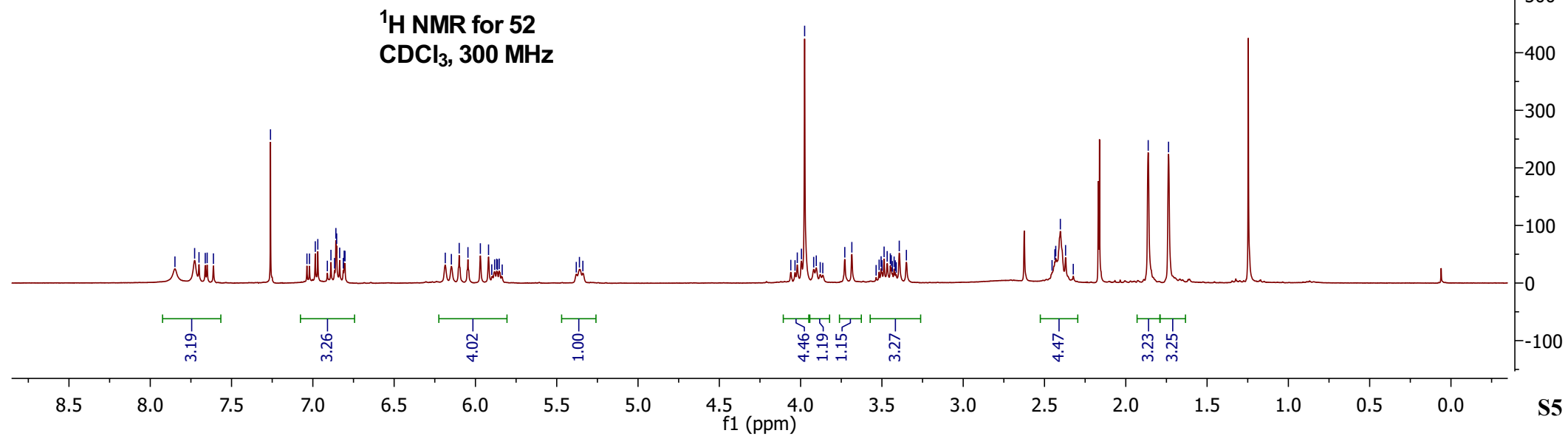


QGC-58-264

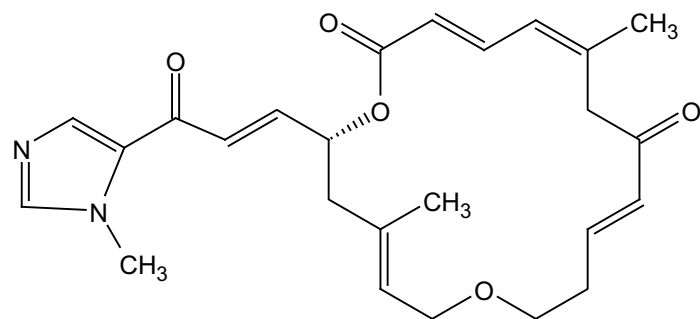
7.848 7.727 7.700 7.662 7.650 7.612 7.260 6.985 6.969 6.889 6.858 6.854 6.835 6.807 6.186 6.148 6.100 6.046 5.970 5.919 5.869 5.854 5.800 5.360 5.339 4.060 4.034 4.020 3.995 3.975 3.920 3.904 3.728 3.685 3.517 3.505 3.500 3.487 3.467 3.448 3.442 3.436 3.425 3.418 3.393 3.349 3.253 2.436 2.431 2.402 2.370 2.323 1.862 1.737



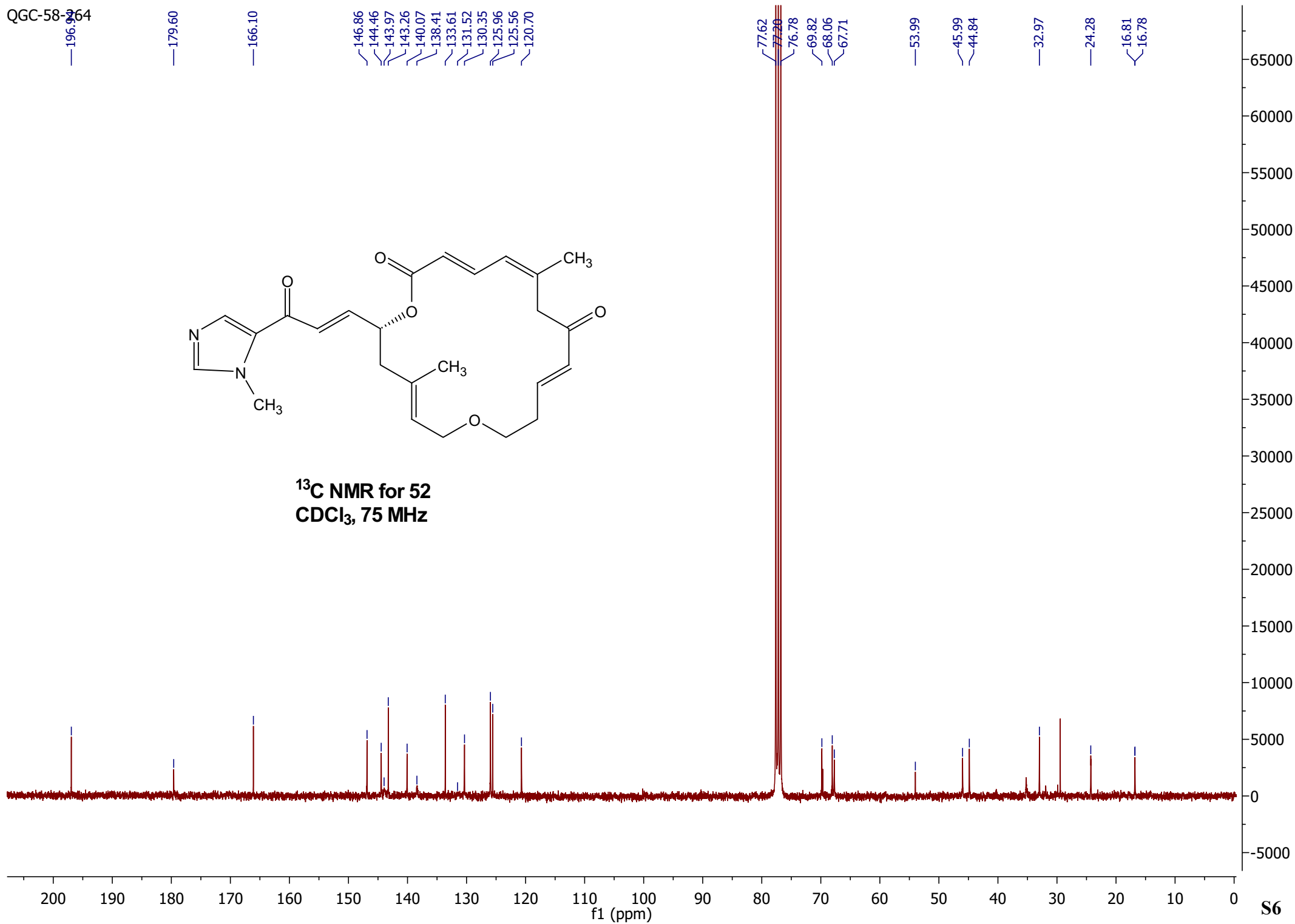
¹H NMR for 52
CDCl₃, 300 MHz



S5

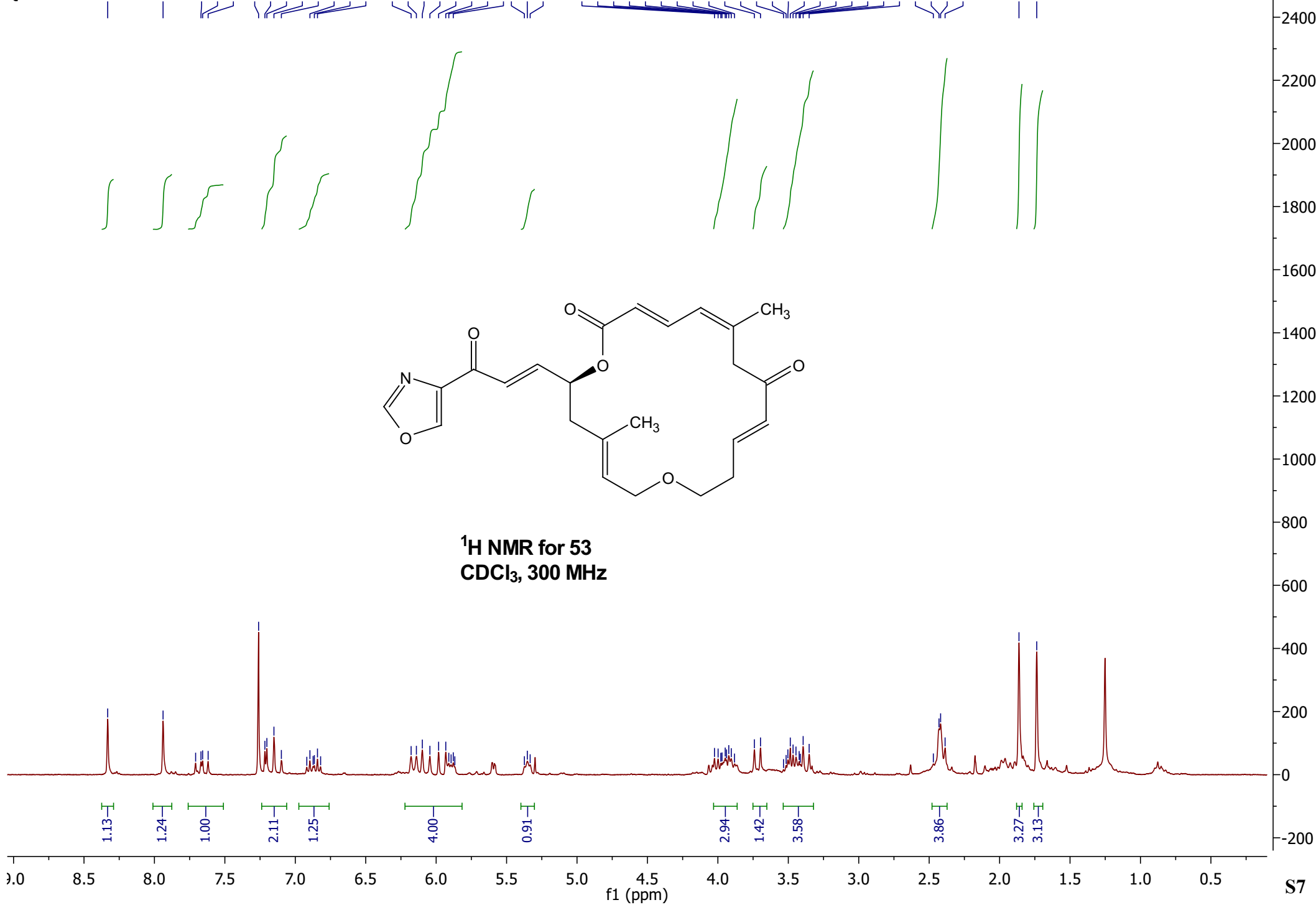


^{13}C NMR for 52
 CDCl_3 , 75 MHz

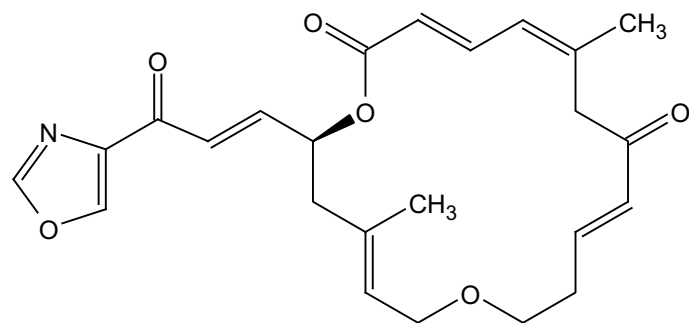


NMR

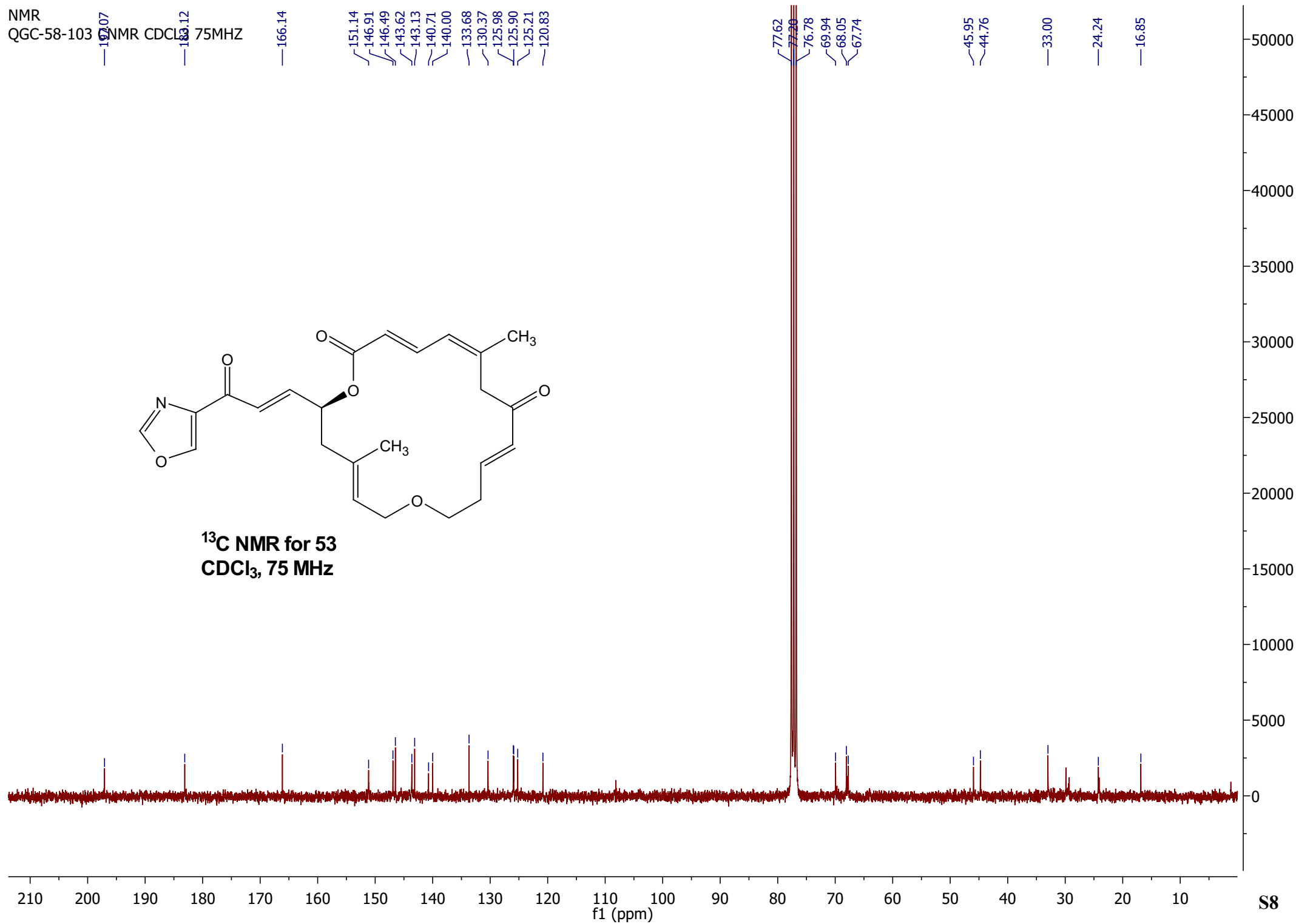
QGC-58-103 1H NMR CDCl3 300 MHz



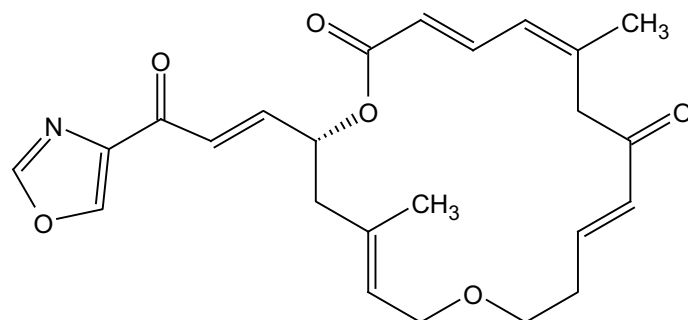
NMR
QGC-58-103 97.07 NMR CDCl₃ 83.12 75MHZ



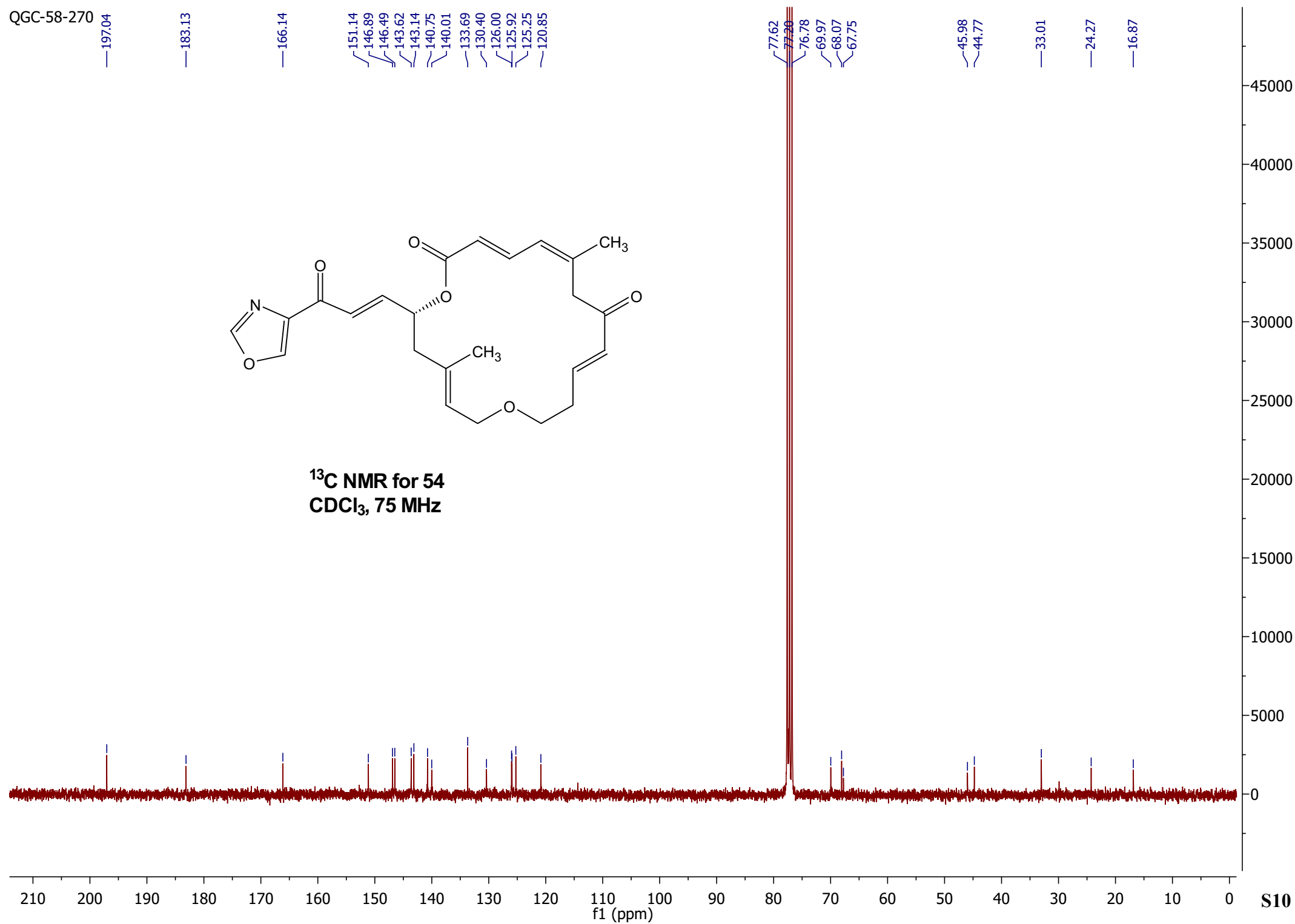
^{13}C NMR for 53
 CDCl_3 , 75 MHz



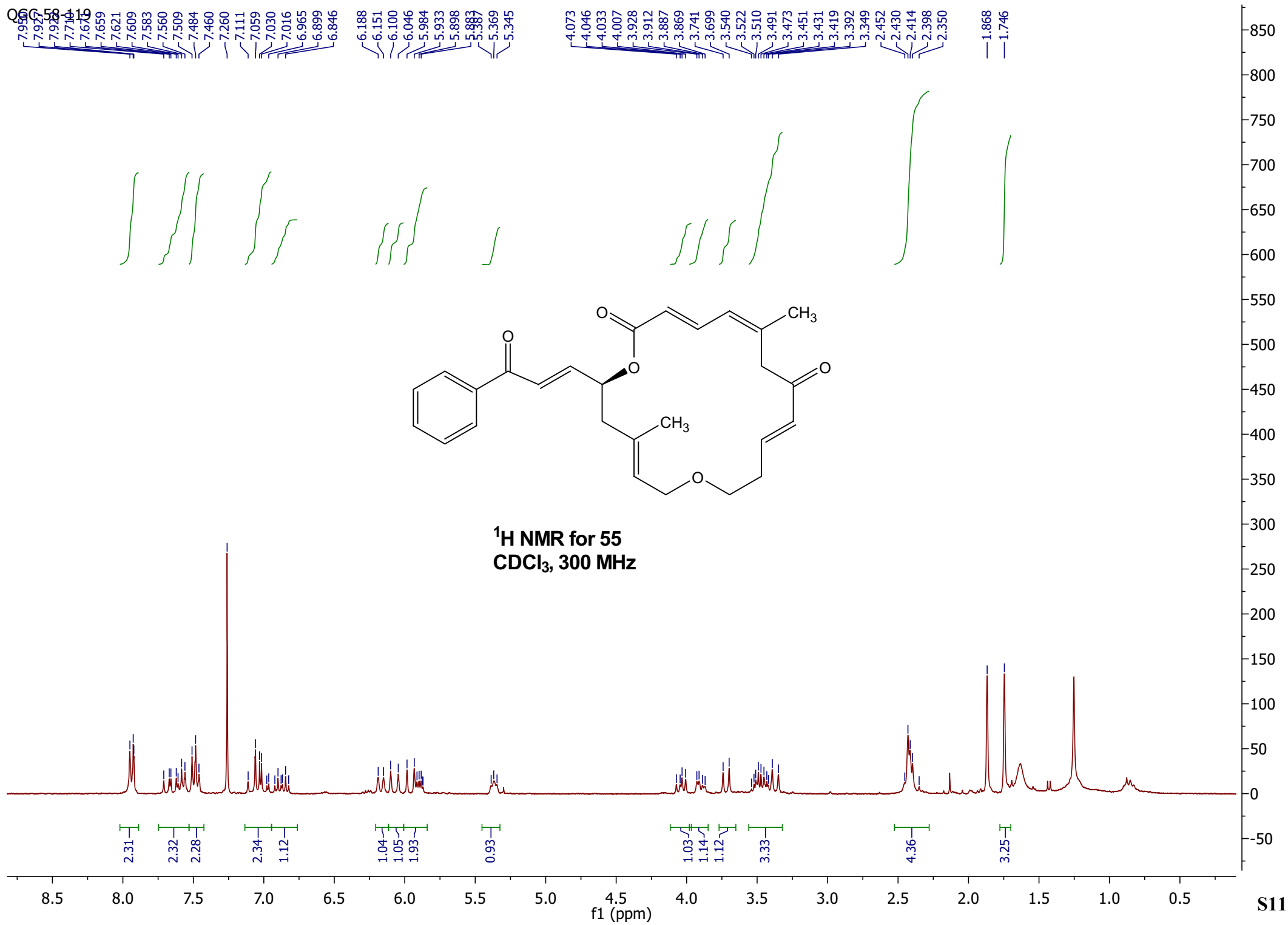
QGC-58-270



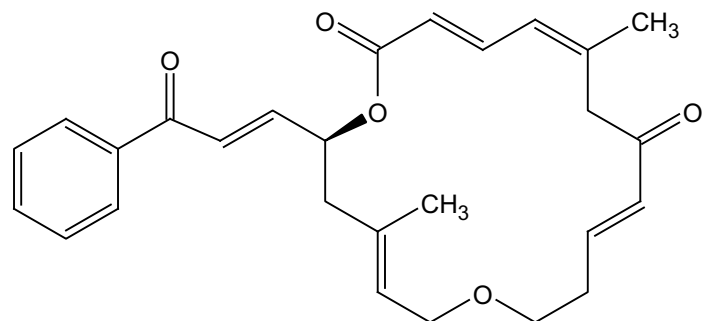
^{13}C NMR for 54
 CDCl_3 , 75 MHz



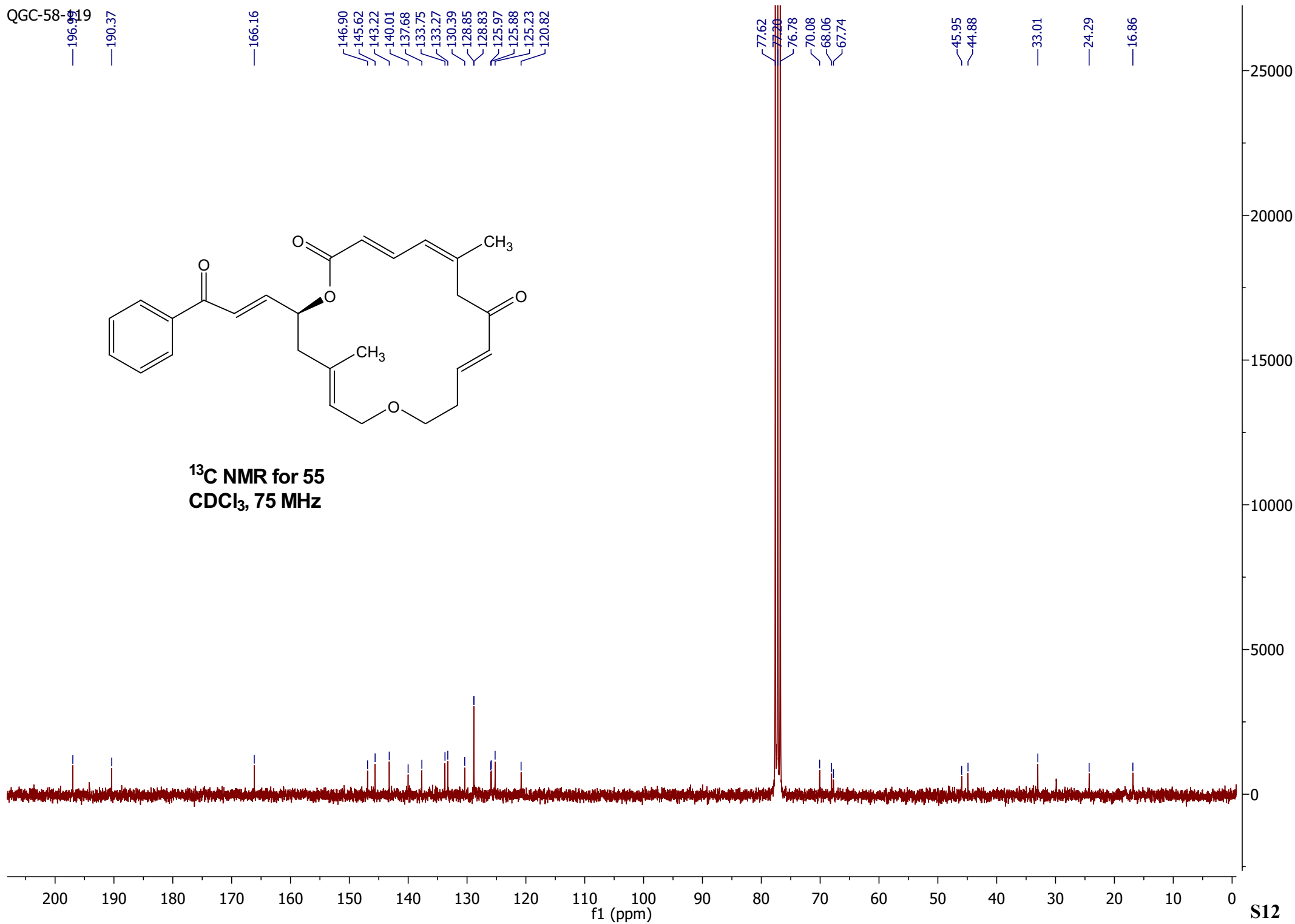
S10

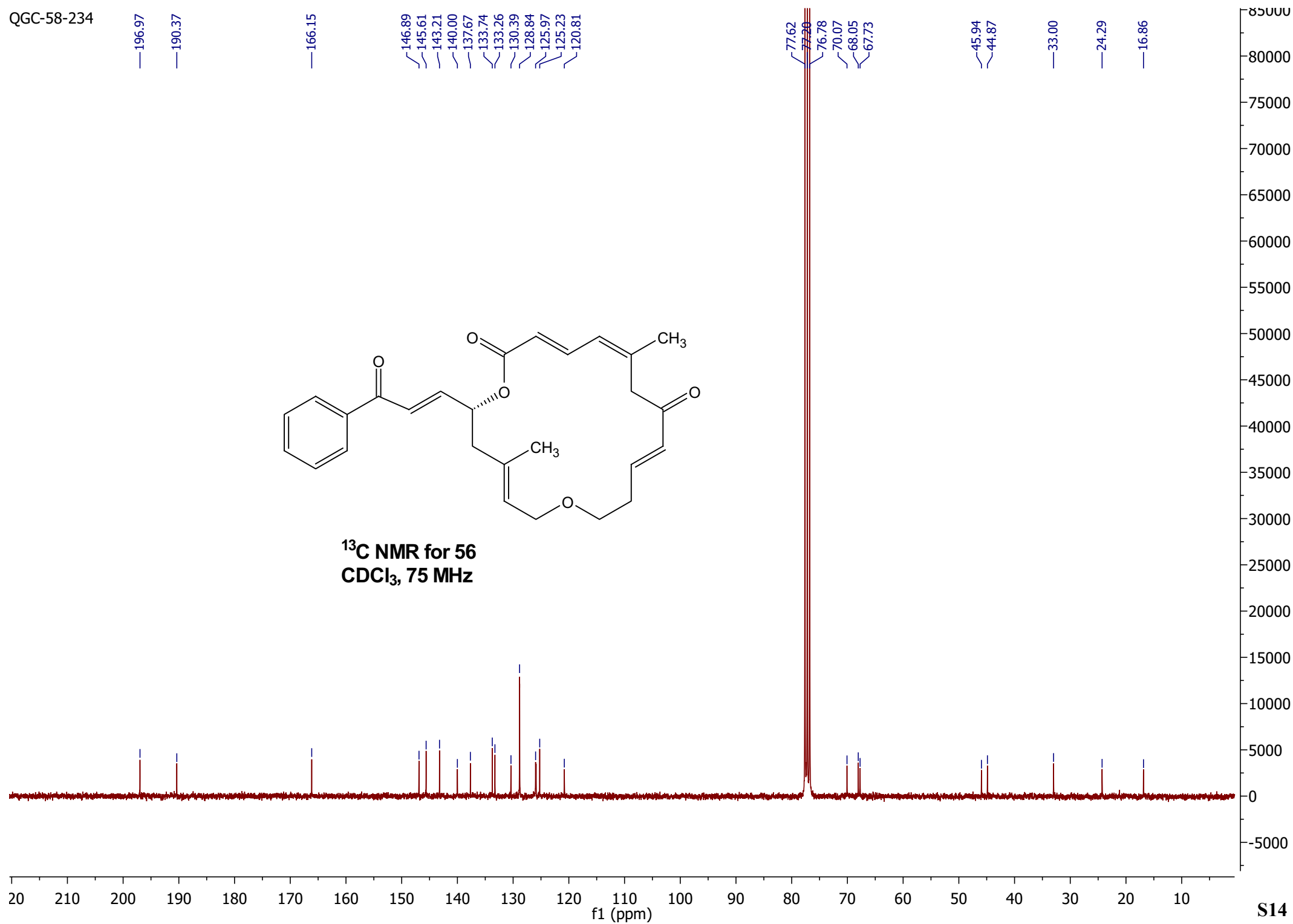


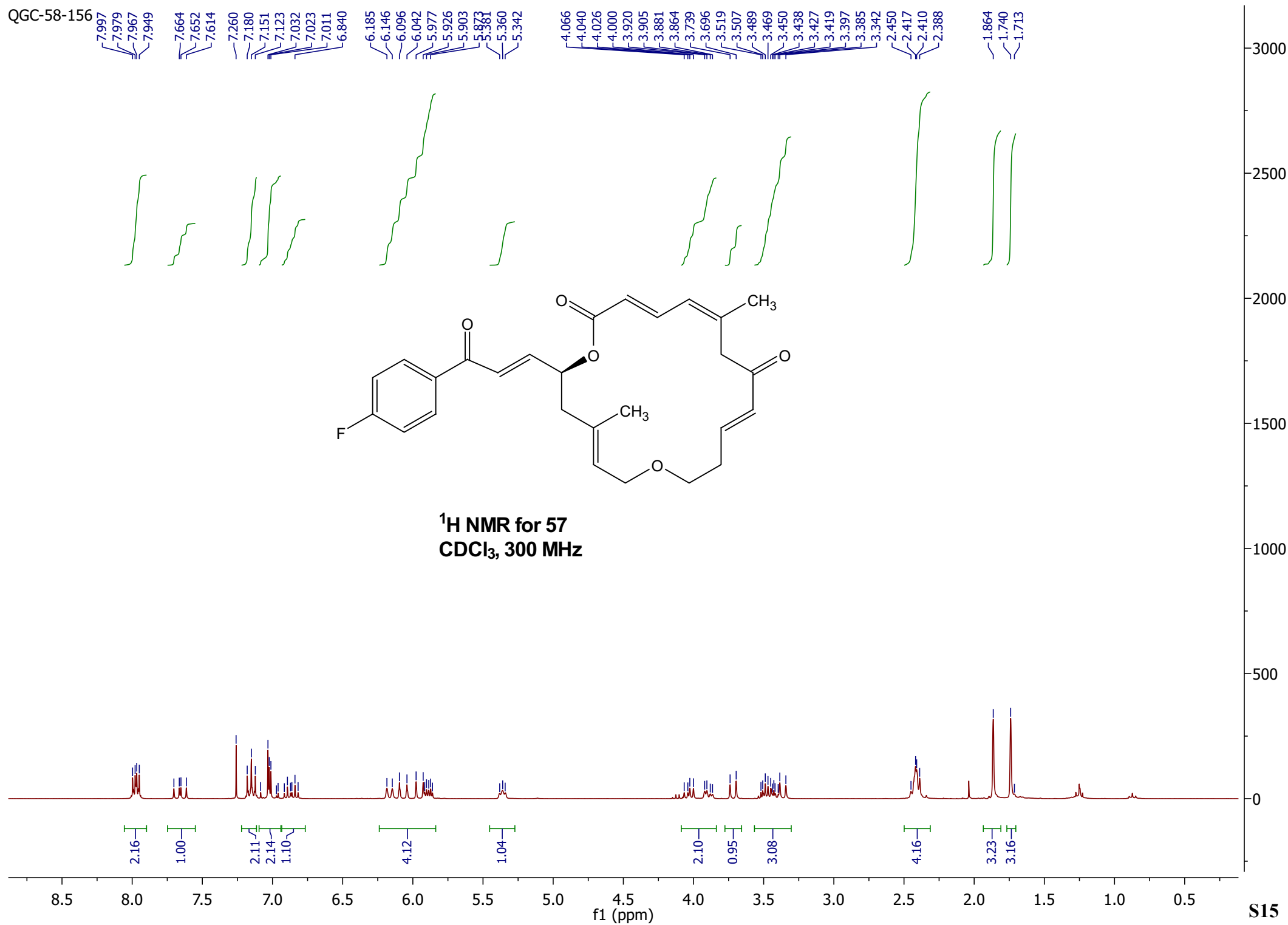
QGC-58-119

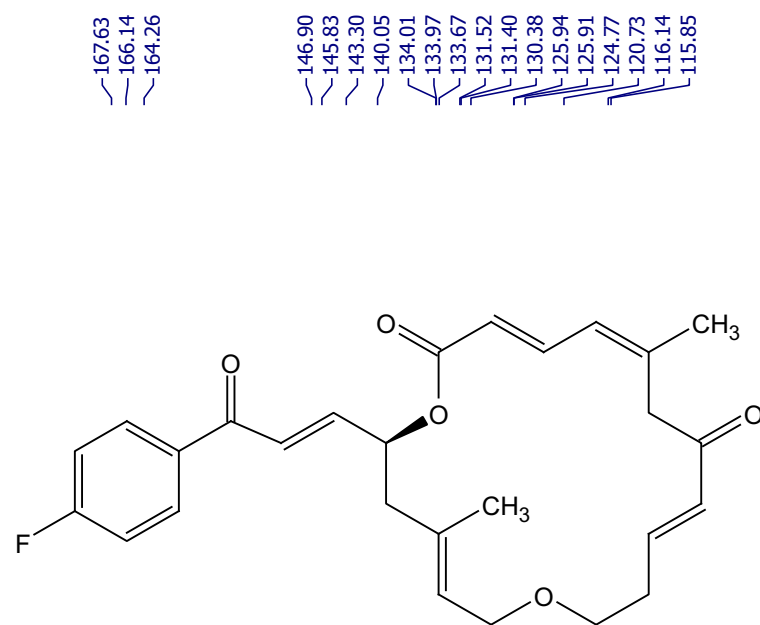


¹³C NMR for 55
CDCl₃, 75 MHz

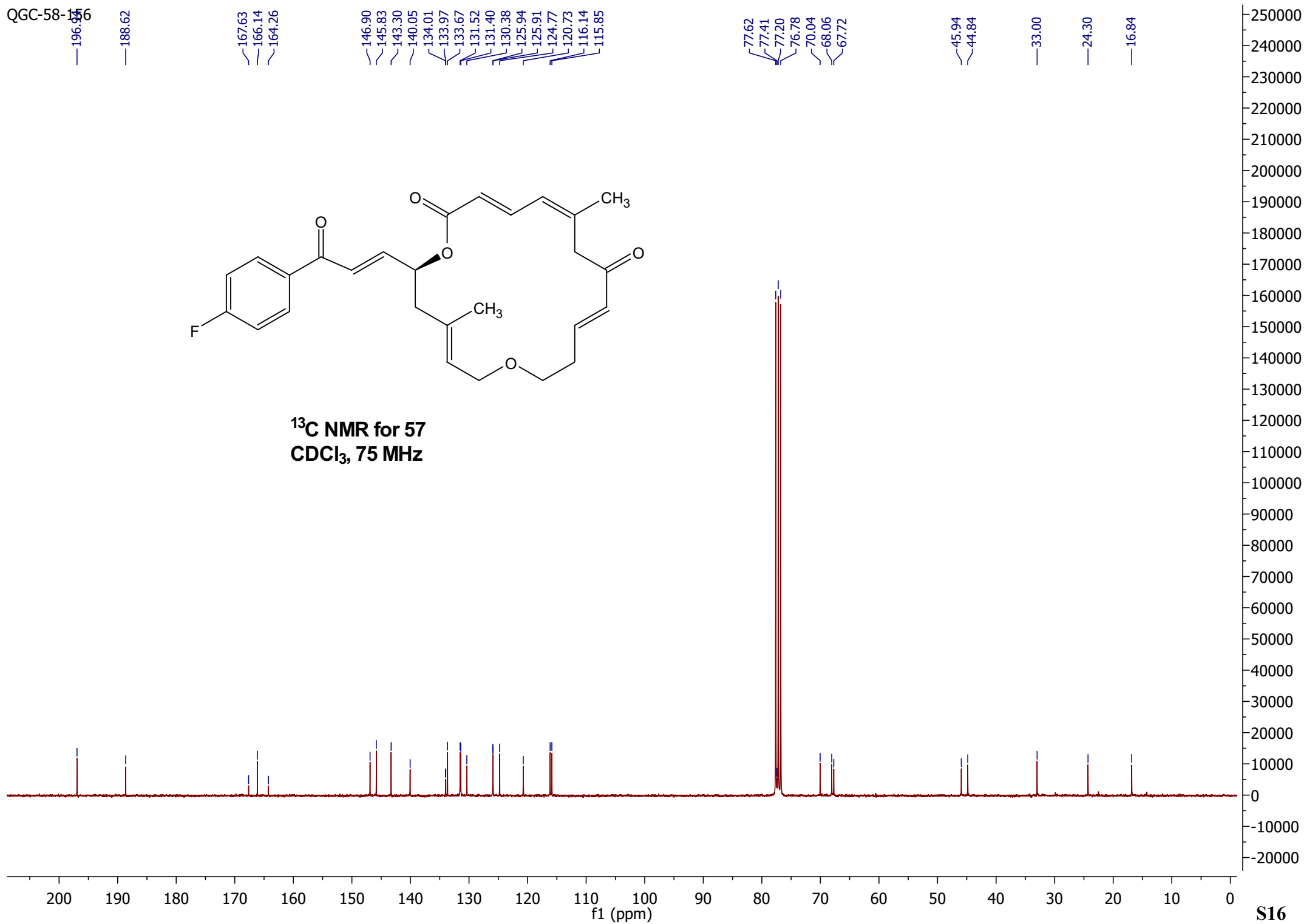


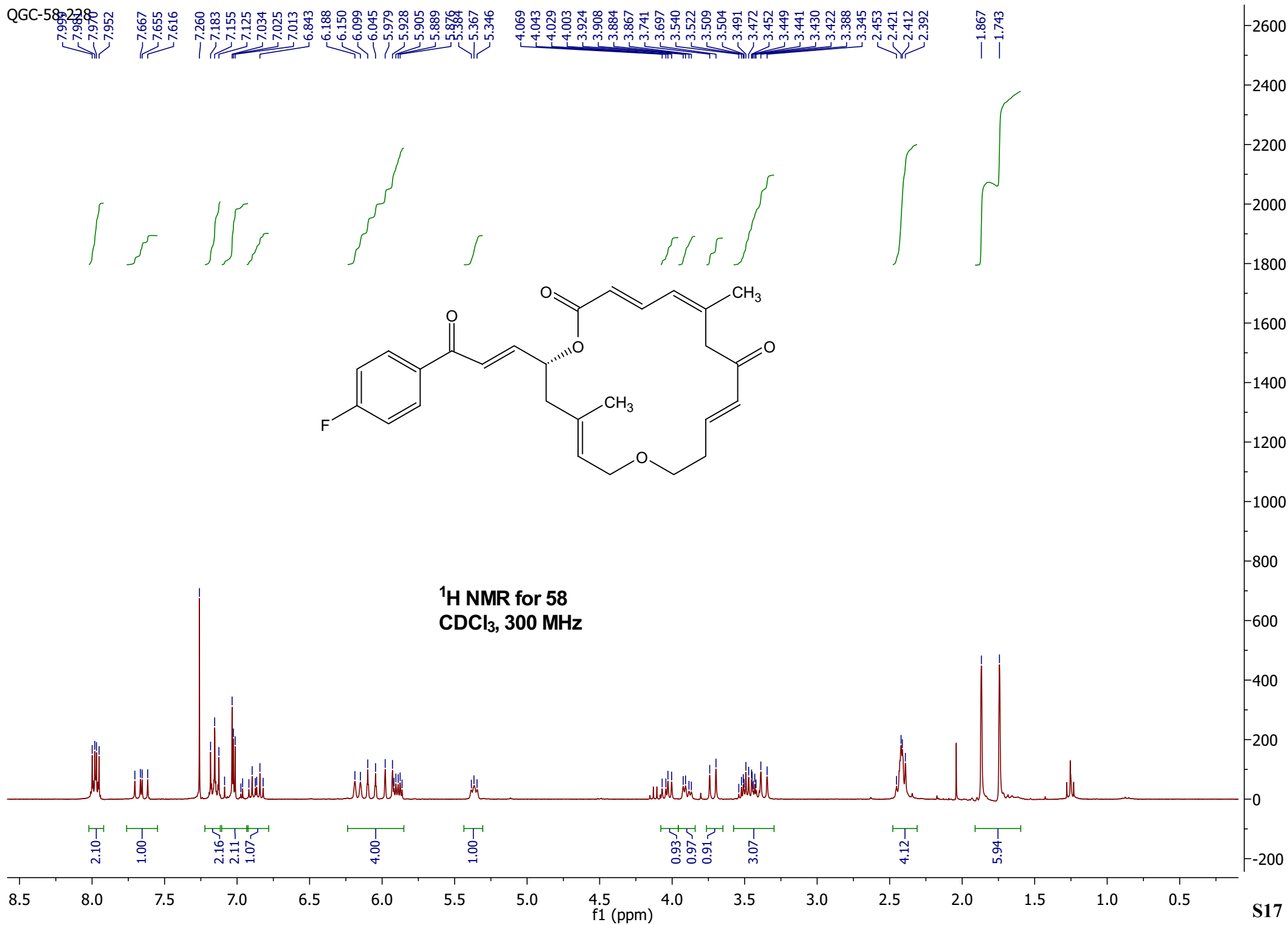






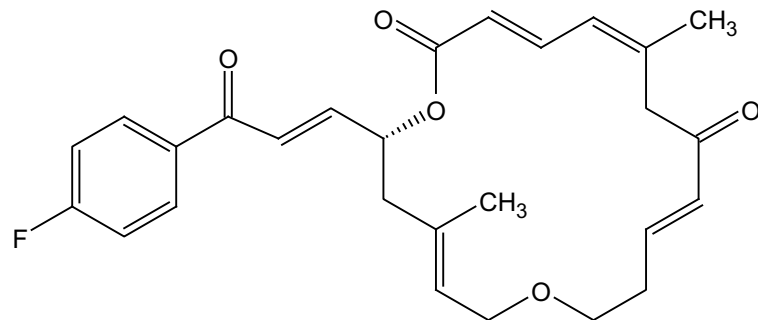
¹³C NMR for 57
CDCl₃, 75 MHz



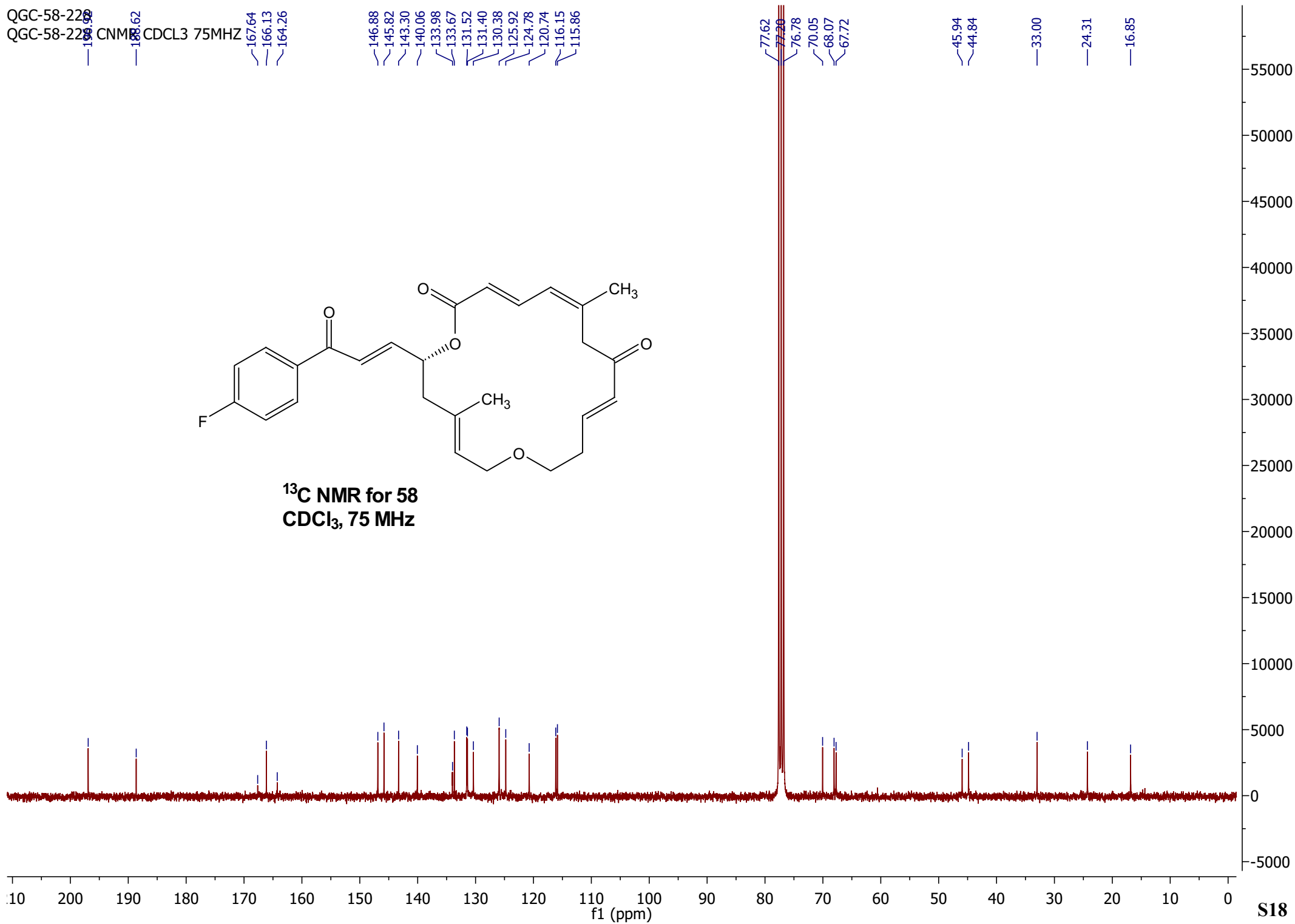


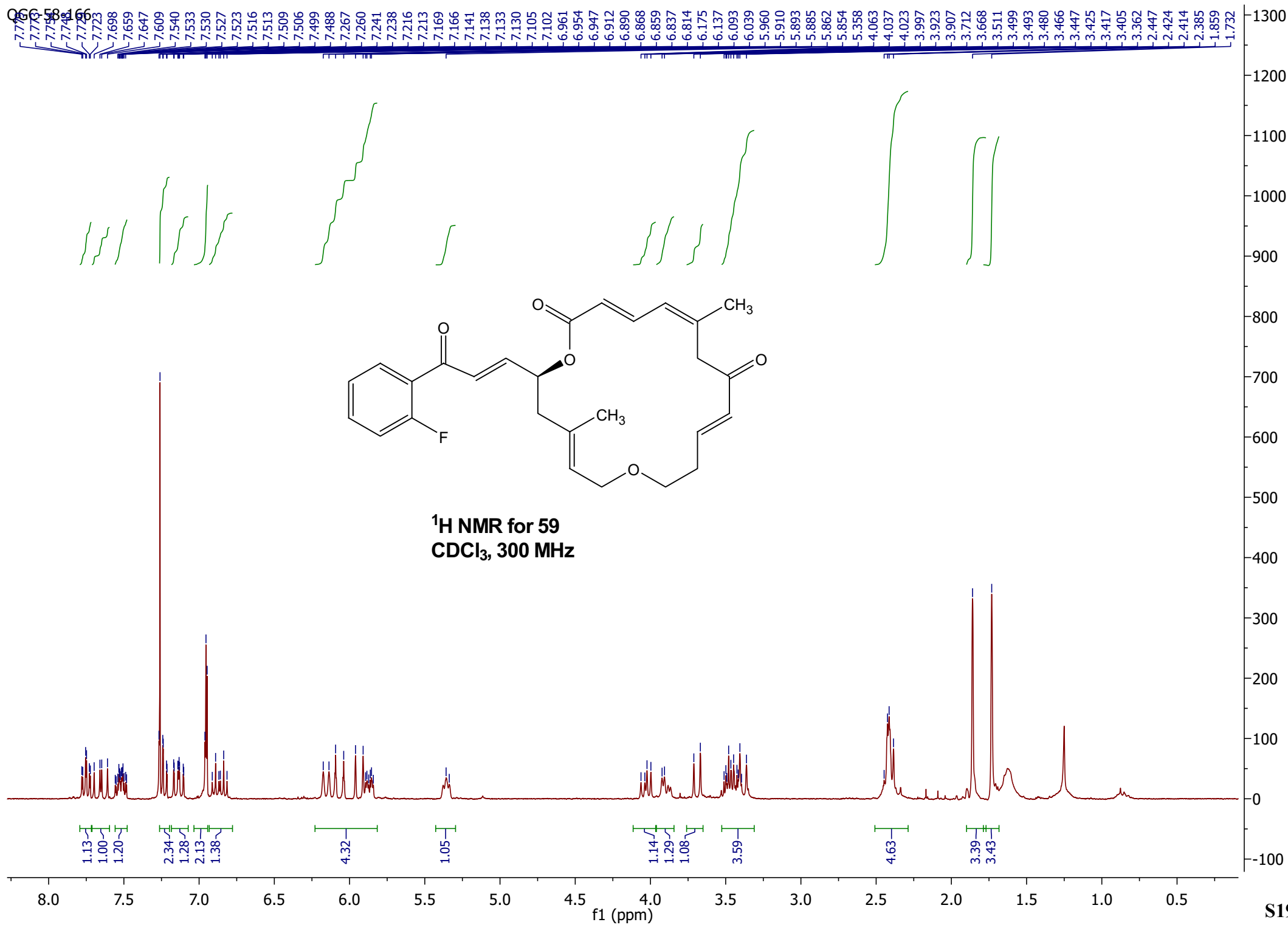
QGC-58-228
QGC-58-228

13C NMR
CDCl3 75MHZ



¹³C NMR for 58
CDCl₃, 75 MHz





QGC-58-166

—197.02

—188.91

~166.09

~163.23

~159.77

~146.90

~145.82

~143.12

~139.95

~134.49

~134.38

~133.70

~131.17

~131.14

~130.37

~128.56

~128.47

~126.74

~126.57

~125.98

~125.88

~124.75

~124.70

~120.80

~116.93

~116.62

77.62

77.38

76.78

69.86

68.02

67.71

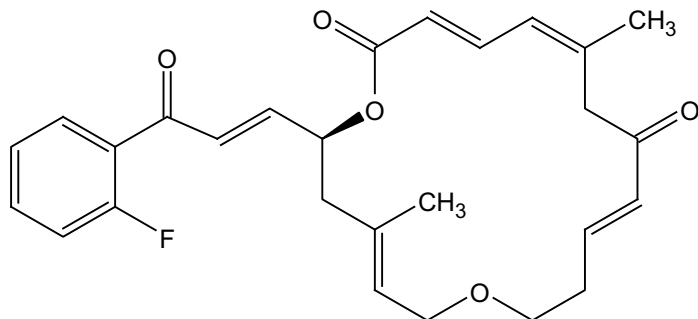
~45.92

~44.69

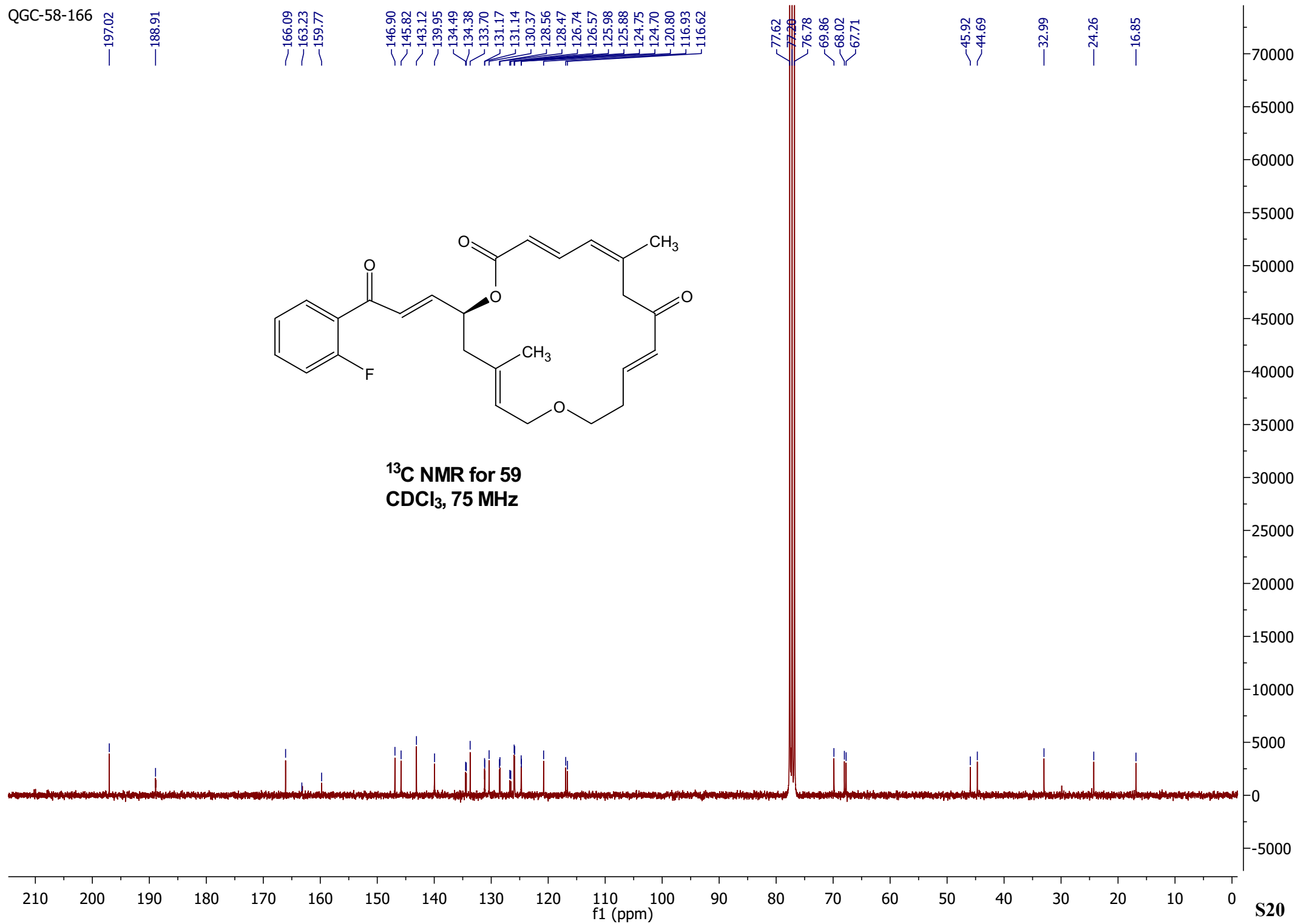
—32.99

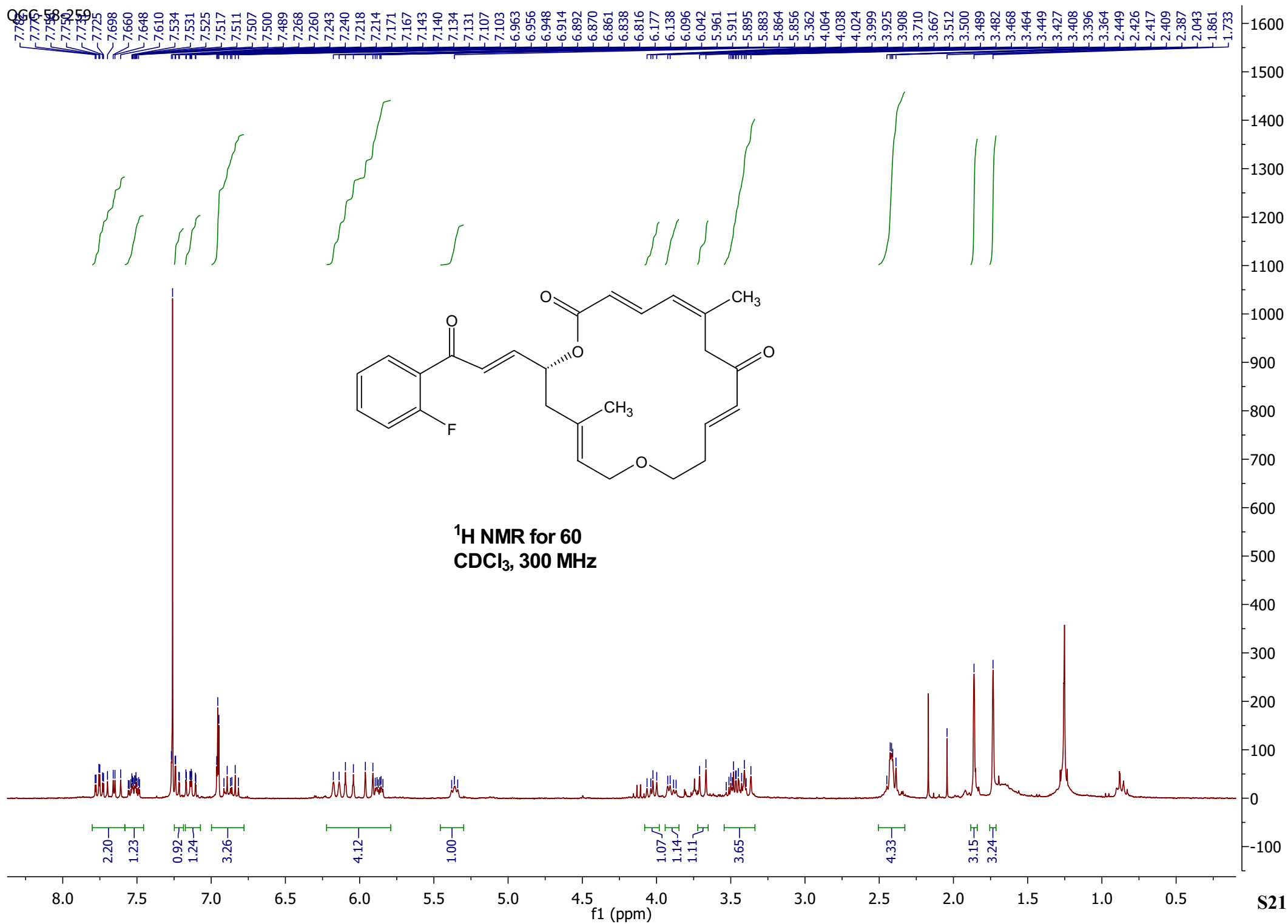
—24.26

—16.85

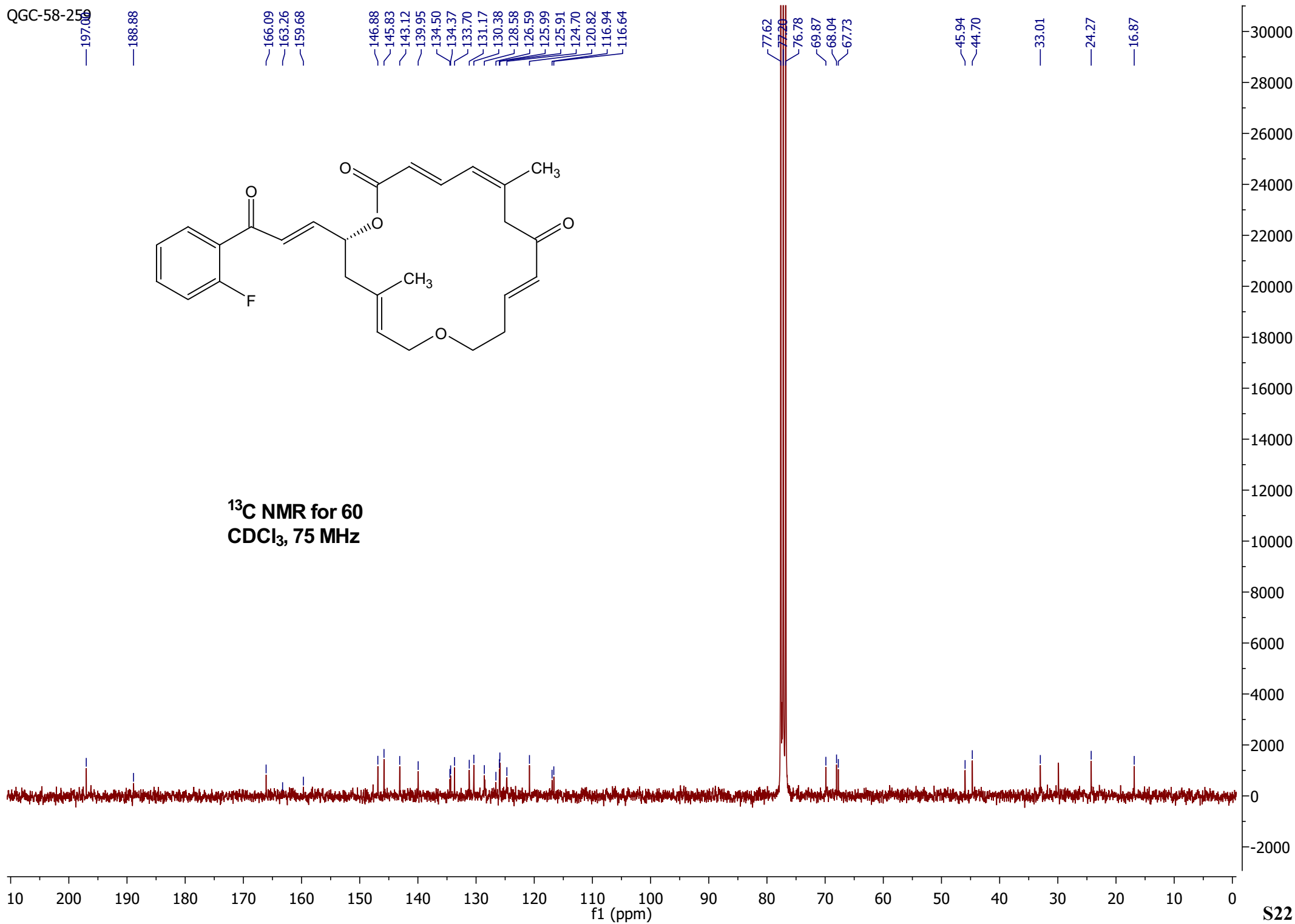


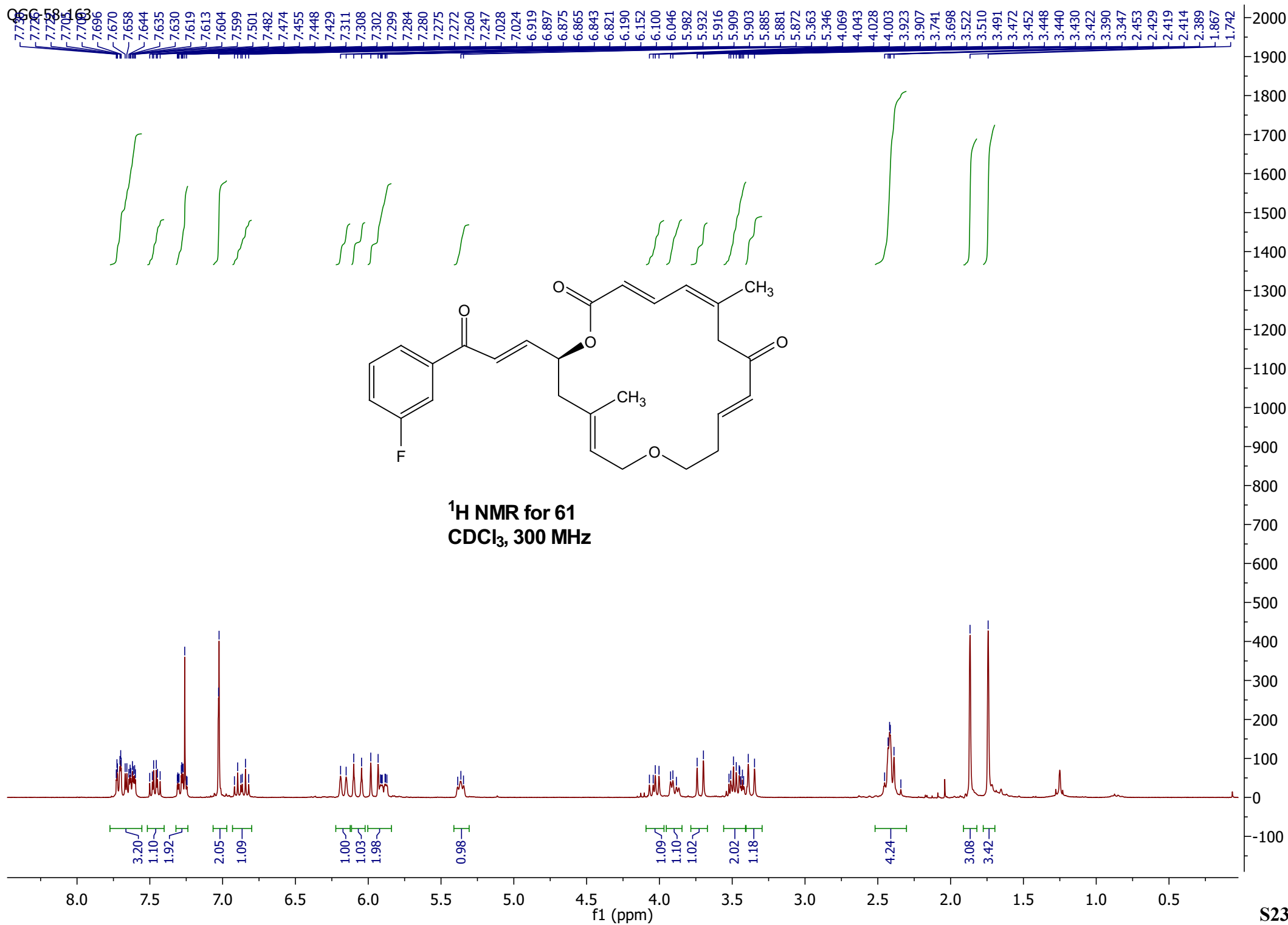
¹³C NMR for 59
CDCl₃, 75 MHz

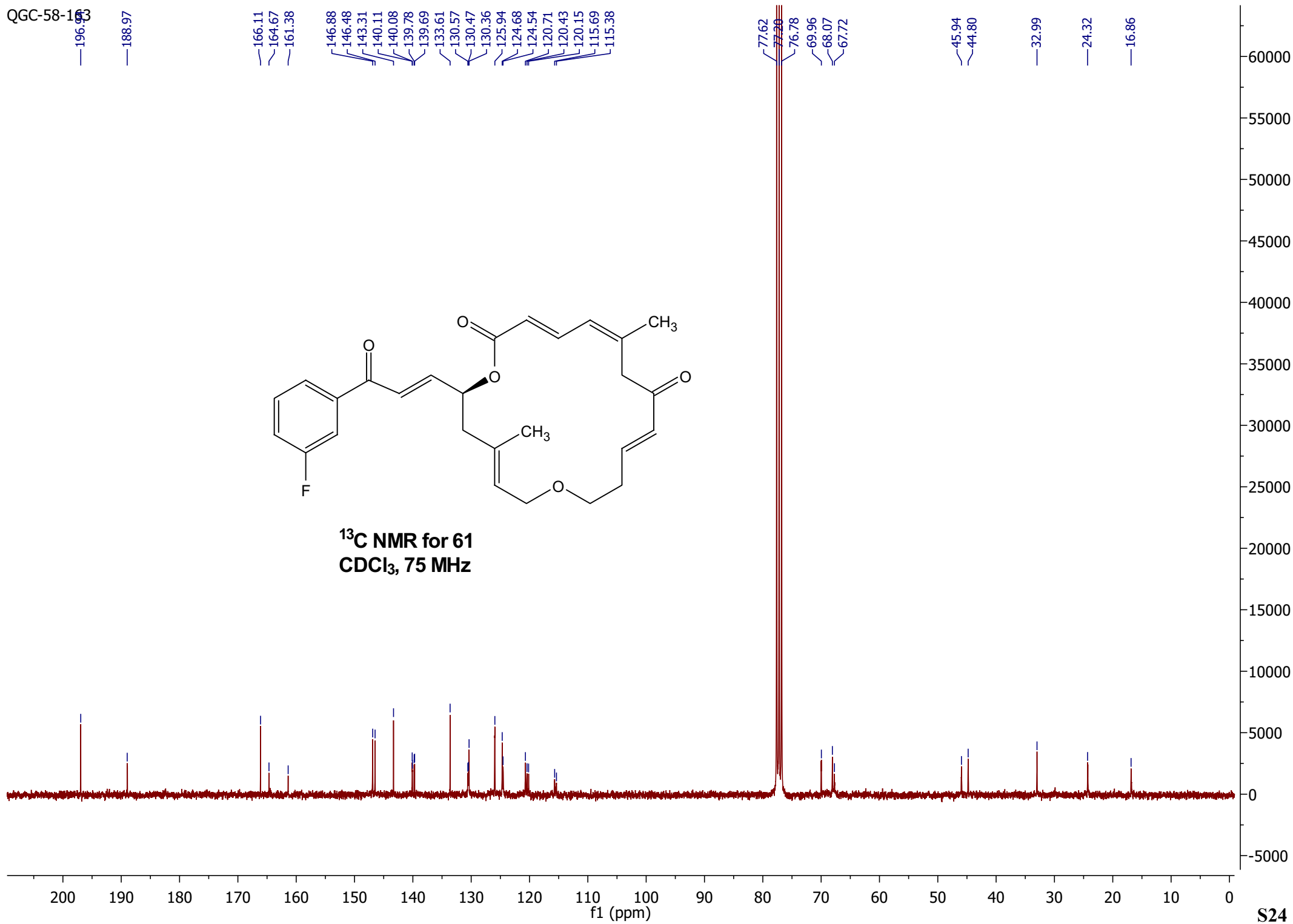


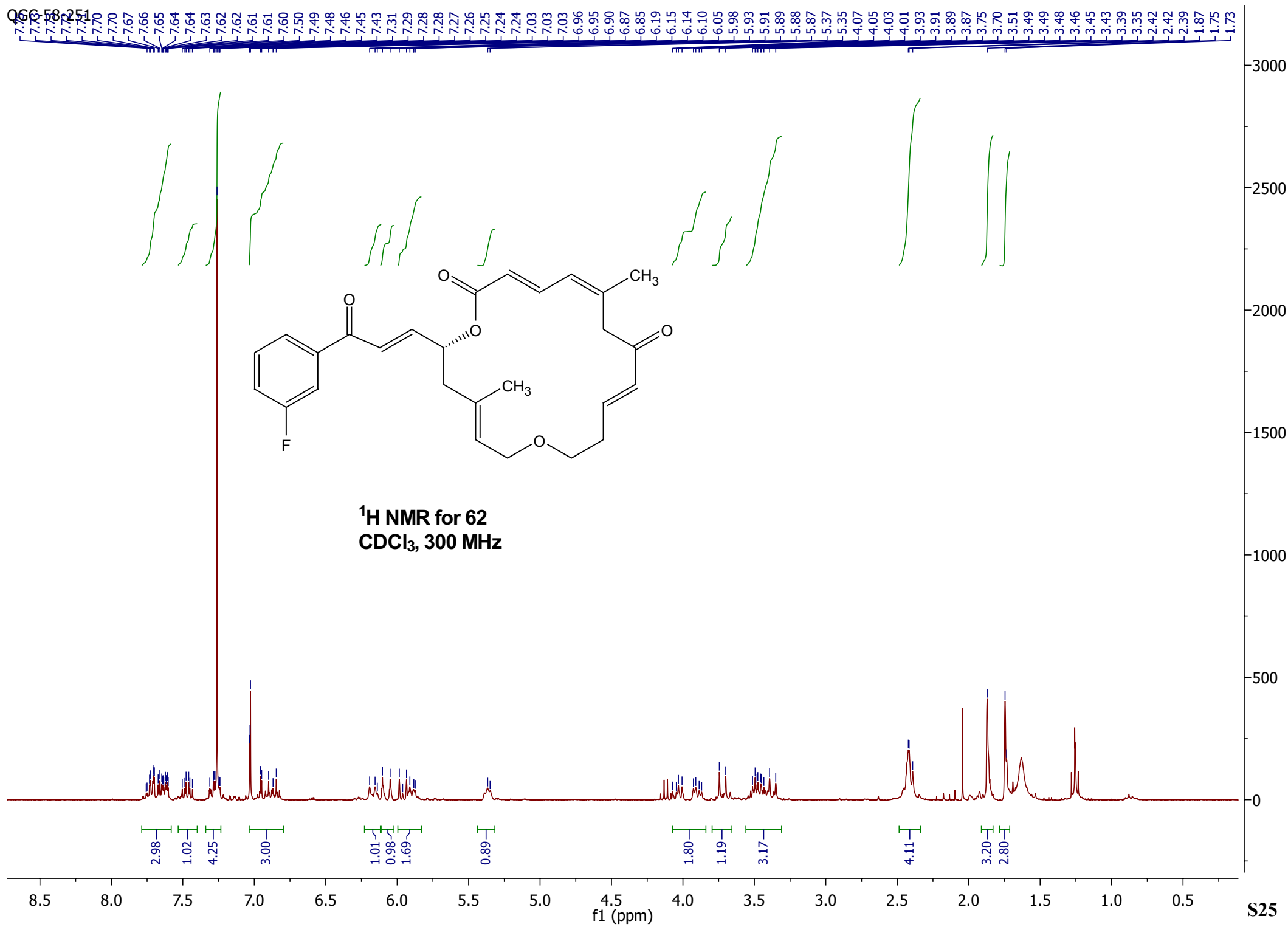


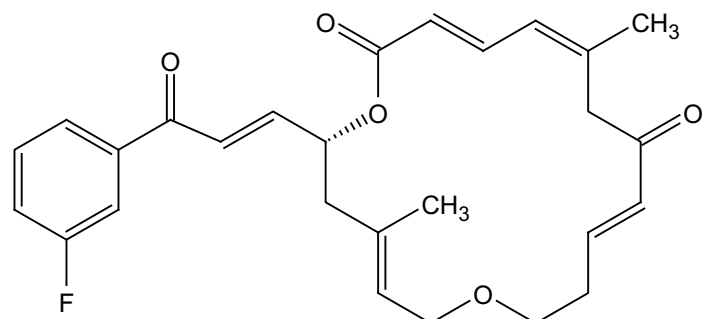
QGC-58-259











^{13}C NMR for 62
 CDCl_3 , 75 MHz

