

Karwinaphthopyranones isolated from the Fruits of *K. parvifolia* and Their Cytotoxic Activities

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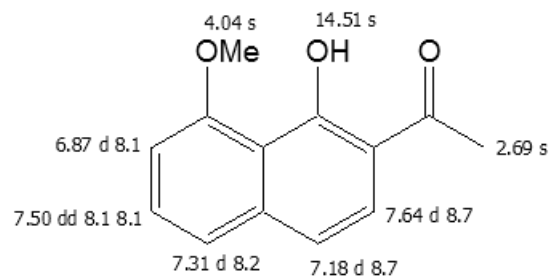
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[§]*Departamento de Biología Celular, Instituto Nacional de Cardiología “Ignacio Chávez,” Juan Badiano No. 1, Colonia Sección 16, Tlalpan, C. P. 14080, México D. F., México*

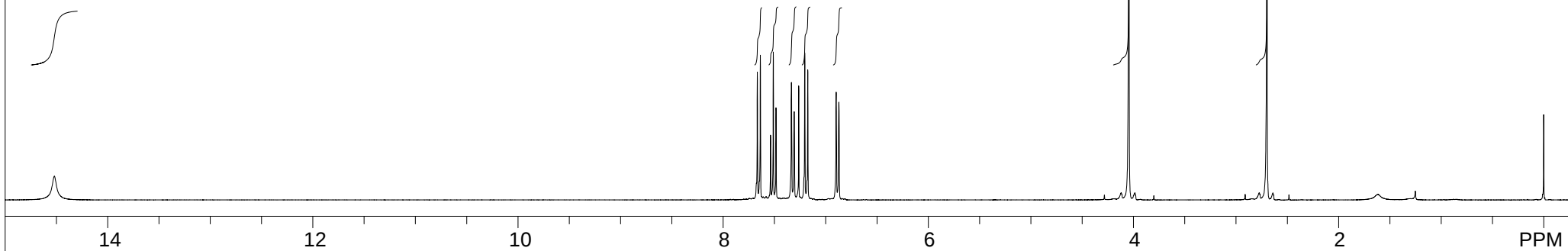
SUPPORTING INFORMATION

2-Acetyl-8-methoxy-1-naphthol (1). ¹ H-NMR Spectra.	SI-3
2-Acetyl-8-methoxy-1-naphthol (1). ¹³ C-NMR + DEPT-135 Spectra.	SI-4
2-Acetyl-8-methoxy-1-naphthol (1). COSY Spectra.	SI-5
2-Acetyl-8-methoxy-1-naphthol (1). HMQC Spectra.	SI-7
2-Acetyl-8-methoxy-1-naphthol (1). HMBC Spectra.	SI-8
Karwinaphthopyranone A1 (2). ¹ H-NMR Spectra.	SI-10
Karwinaphthopyranone A1 (2). ¹³ C-NMR + DEPT-135 Spectra.	SI-12
Karwinaphthopyranone A1 (2). COSY Spectra.	SI-14
Karwinaphthopyranone A1 (2). HMQC Spectra.	SI-17
Karwinaphthopyranone A1 (2). HMBC Spectra.	SI-19
Karwinaphthopyranone A2 (3). ¹ H-NMR Spectra.	SI-23
Karwinaphthopyranone A2 (3). ¹³ C-NMR + DEPT-135 Spectra.	SI-24
Karwinaphthopyranone A2 (3). COSY Spectra.	SI-25
Karwinaphthopyranone A2 (3). HMQC Spectra.	SI-27
Karwinaphthopyranone A2 (3). HMBC Spectra.	SI-32

Karwinaphthopyranone B1 (4). ¹ H-NMR Spectra.	SI-35
Karwinaphthopyranone B1 (4). ¹³ C-NMR + DEPT-135 Spectra.	SI-36
Karwinaphthopyranone B1 (4). COSY Spectra.	SI-37
Karwinaphthopyranone B1 (4). HMQC Spectra.	SI-38
Karwinaphthopyranone B1 (4). HMBC Spectra.	SI-41
Karwinaphthopyranone B2 (5). ¹ H-NMR Spectra.	SI-42
Karwinaphthopyranone B2 (5). ¹³ C-NMR + DEPT-135 Spectra.	SI-43
Karwinaphthopyranone B2 (5). COSY Spectra.	SI-45
Karwinaphthopyranone B2 (5). HMQC Spectra.	SI-48
Karwinaphthopyranone B2 (5). HMBC Spectra.	SI-51
Karwinaphthopyranone B3 (6). ¹ H-NMR Spectra.	SI-54
Karwinaphthopyranone B3 (6). ¹³ C-NMR + DEPT-135 Spectra.	SI-58
Karwinaphthopyranone B3 (6). HMQC Spectra.	SI-59
Karwinaphthopyranone B3 (6). HMBC Spectra.	SI-62



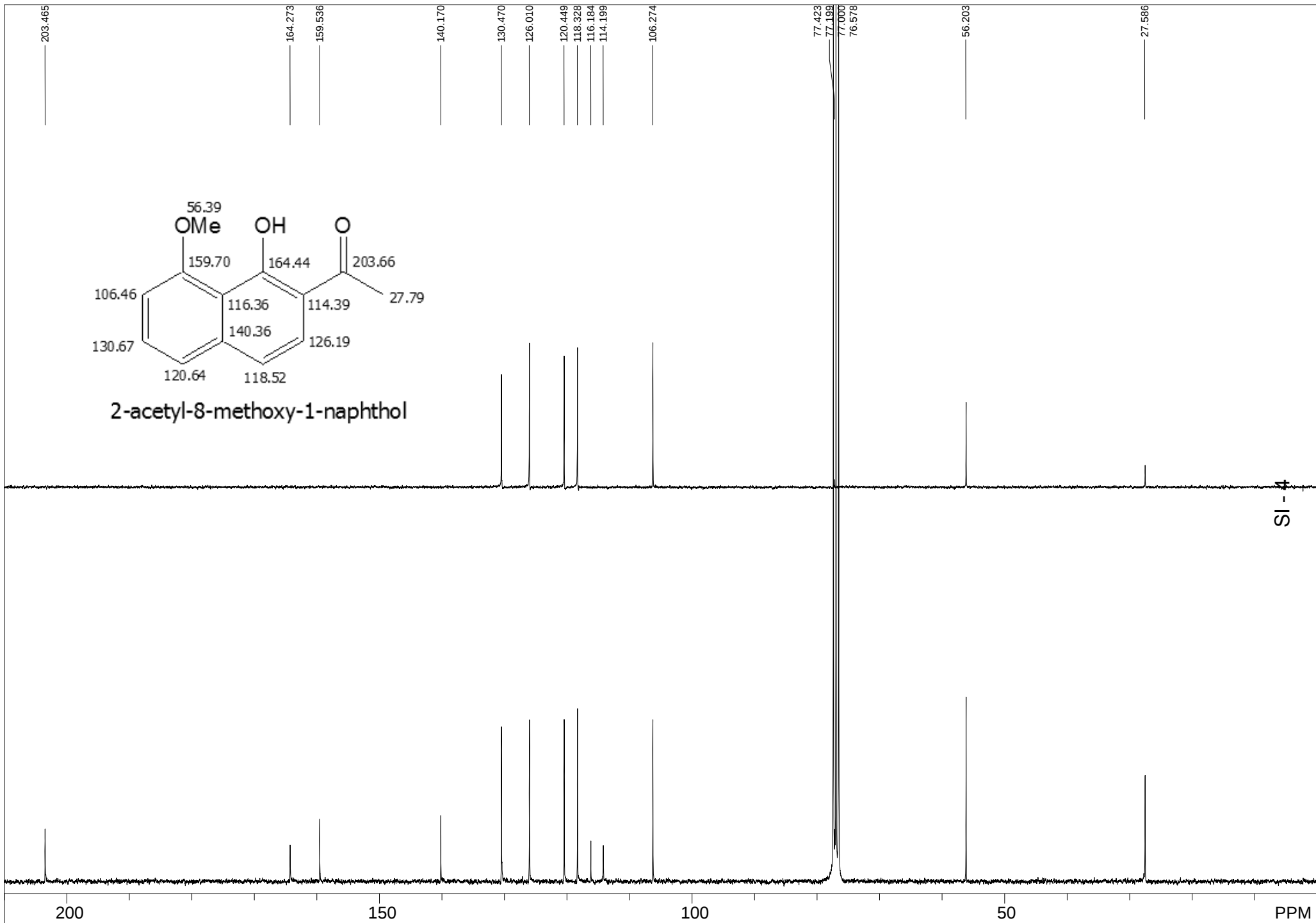
2-acetyl-8-methoxy-1-naphthol



SI-3

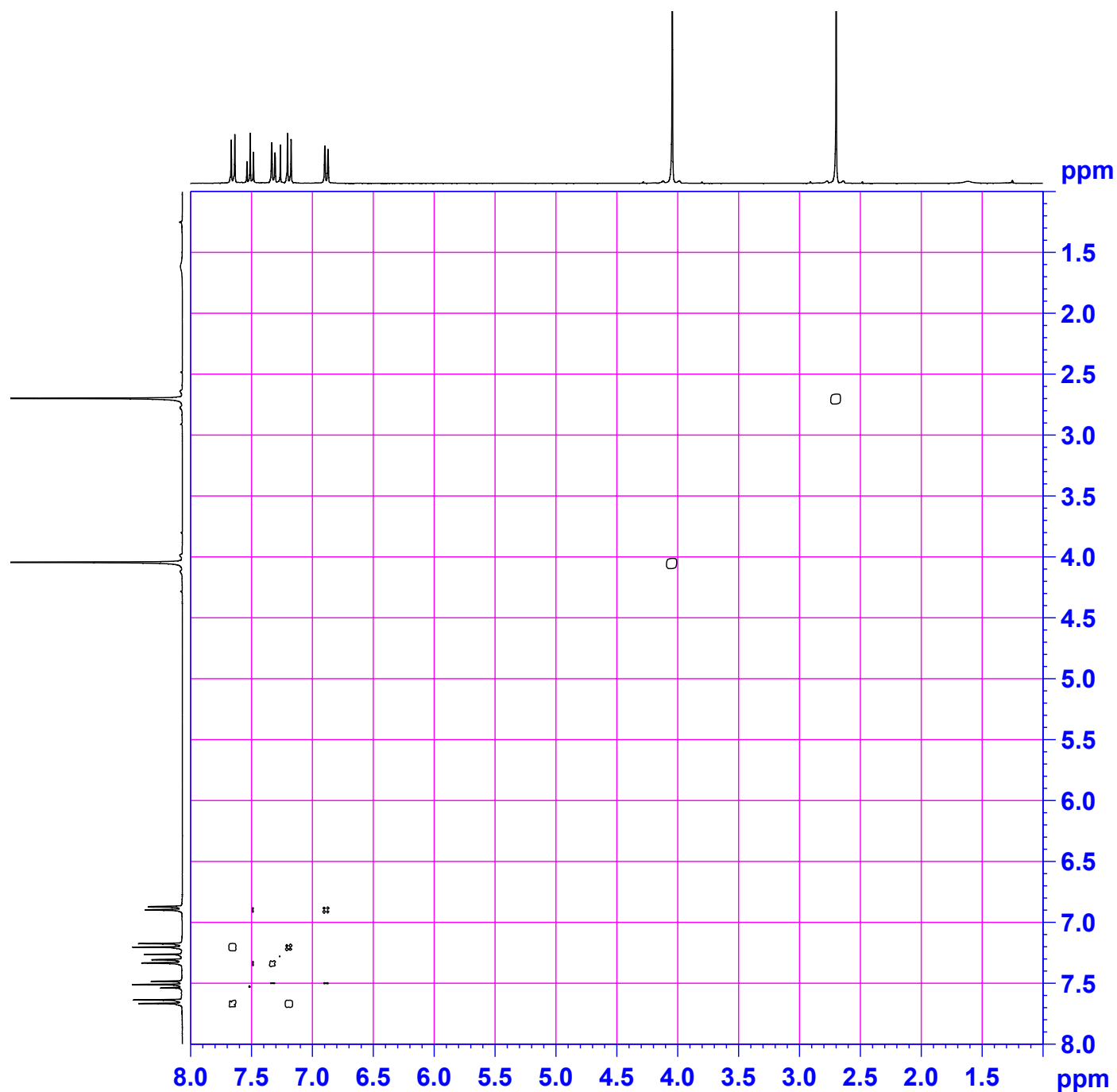
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Nuts - \$CR-1-171-3chl 1				



USER: root -- DATE: Tue Mar 05 08:31:13 2013							
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EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 8000	LB: 1.8	Nuts - \$CR-1-171-3chl 2	

COSY CR-1-171-3 CDCl3



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 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
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 Time_ 9.32
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 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 4
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 IN0 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

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 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

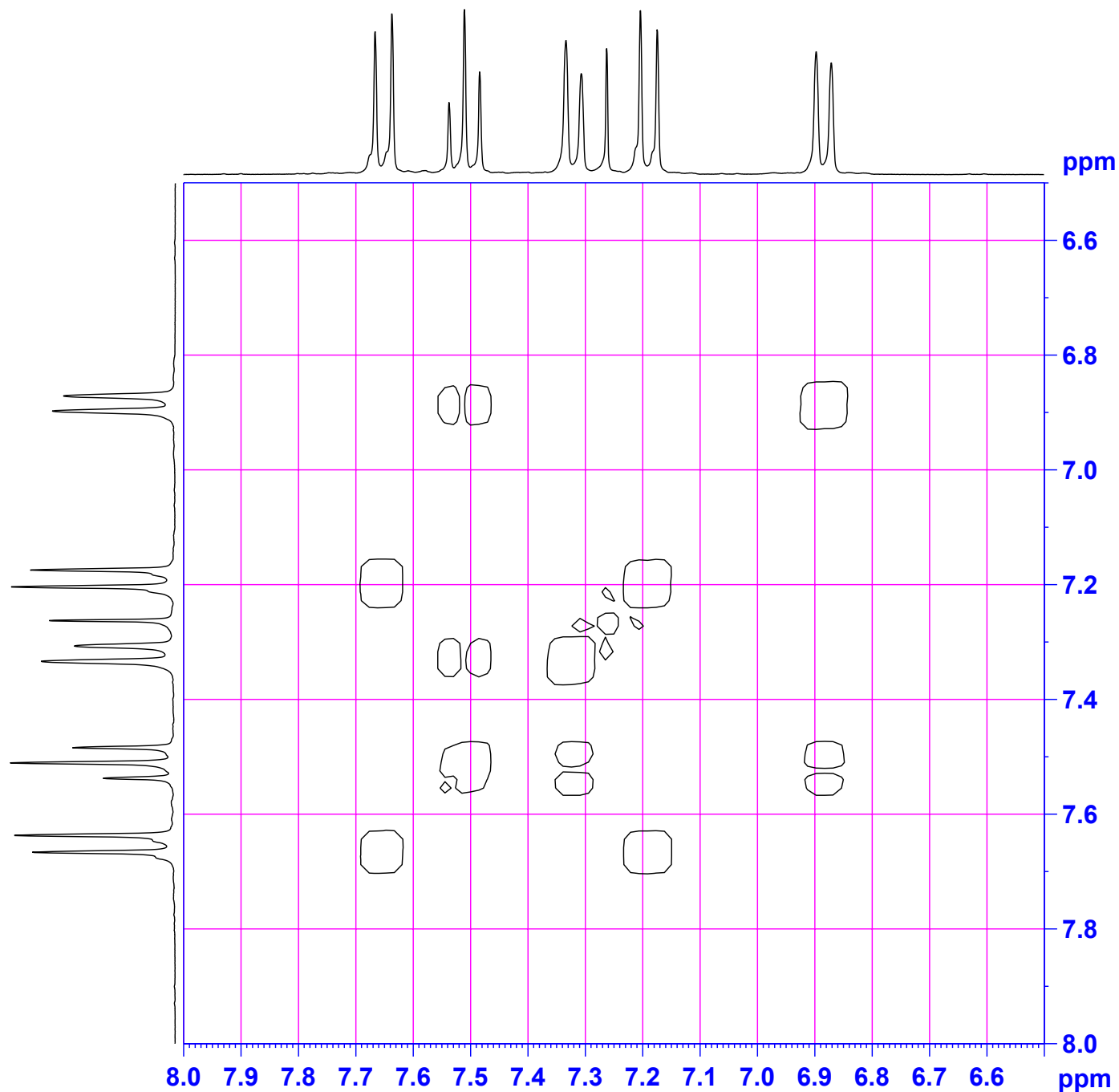
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 GPNAM2 SINE.100
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 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 300.1300038 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300047 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

COSY CR-1-171-3 CDCl3



Current Data Parameters
 NAME CR-1-171-3chl
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130305
 Time_ 9.32
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 4
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 IN0 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
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 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

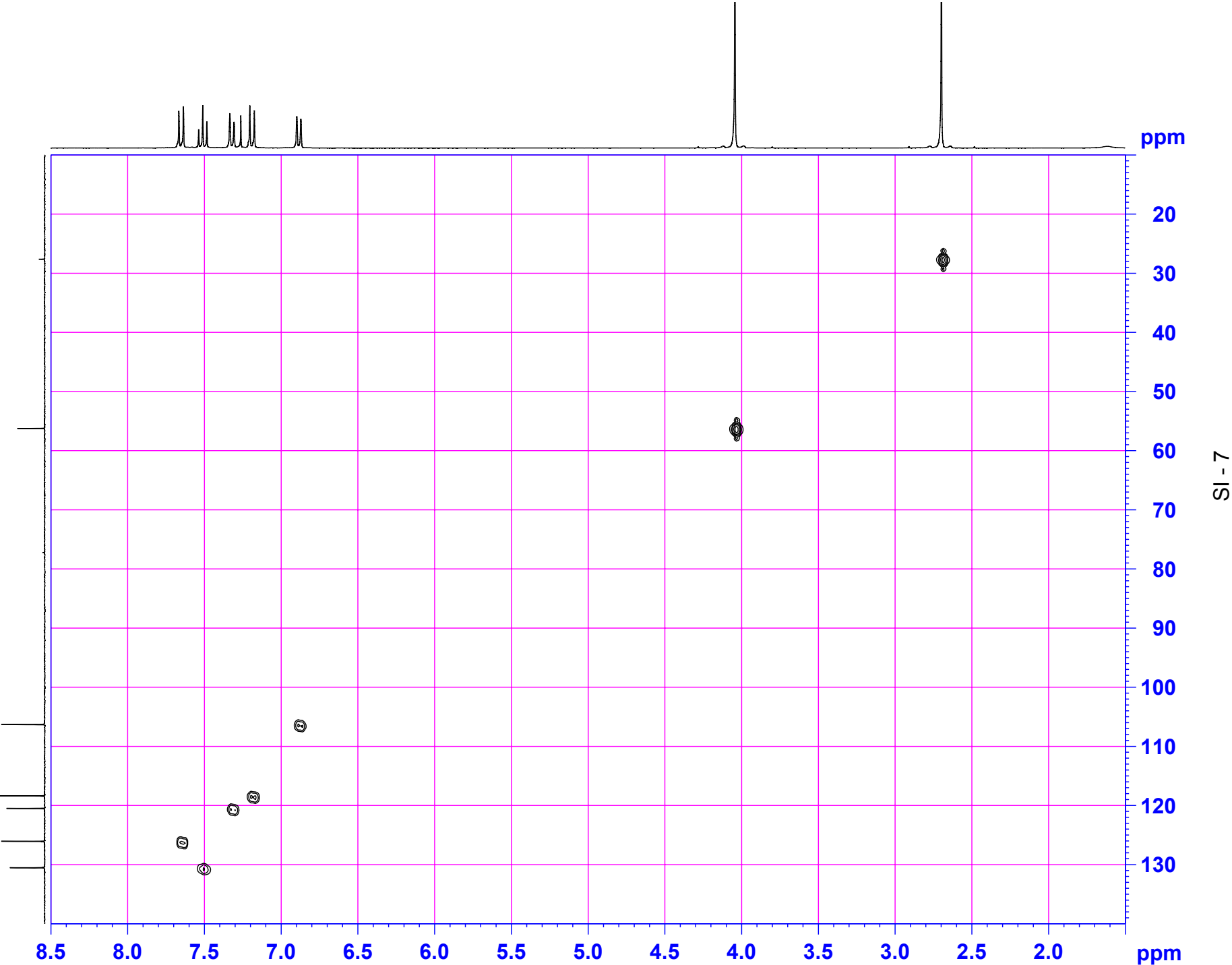
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 GPNAM2 SINE.100
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 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

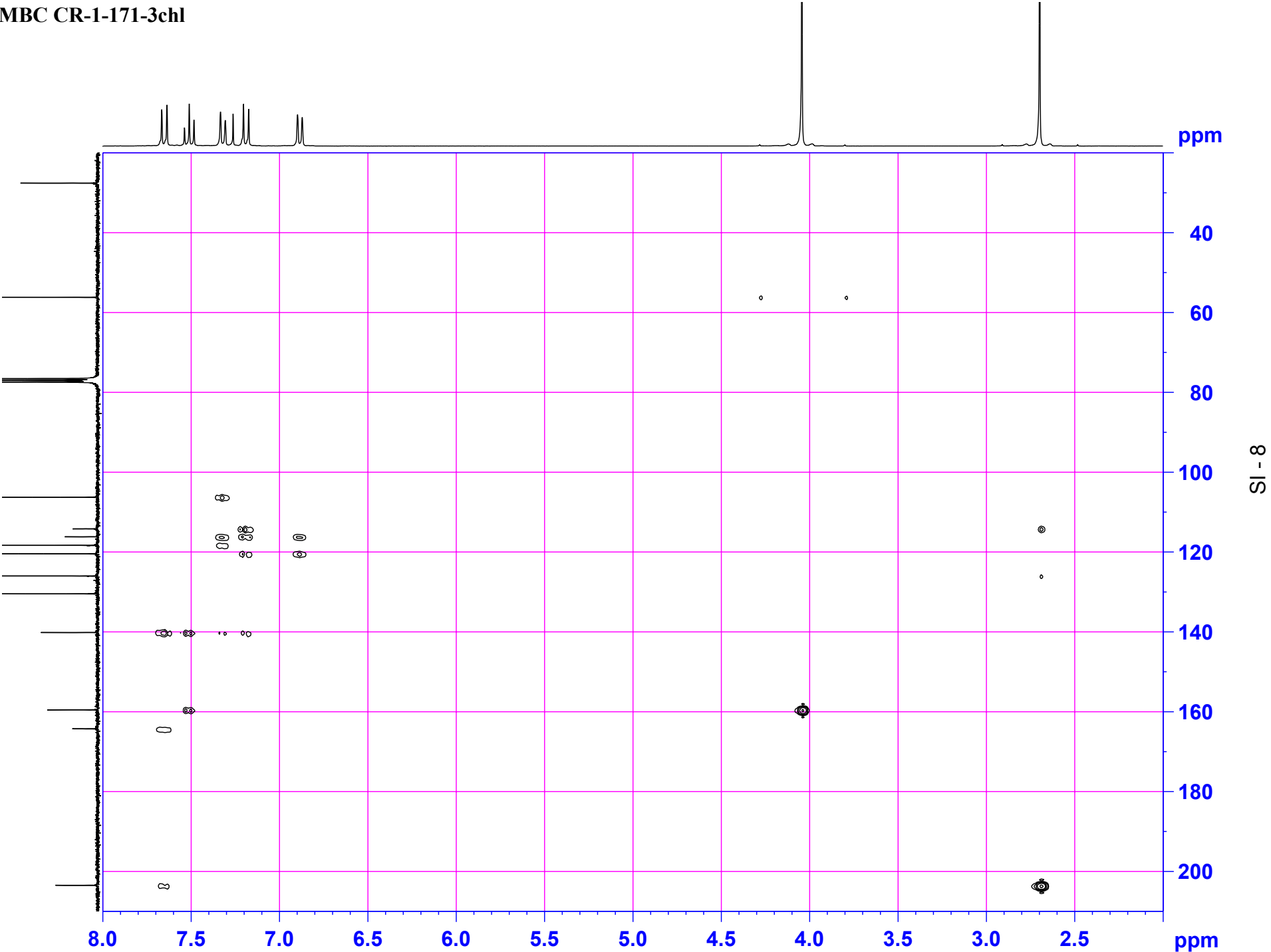
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 SF 300.1300038 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
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 MC2 QF
 SF 300.1300047 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

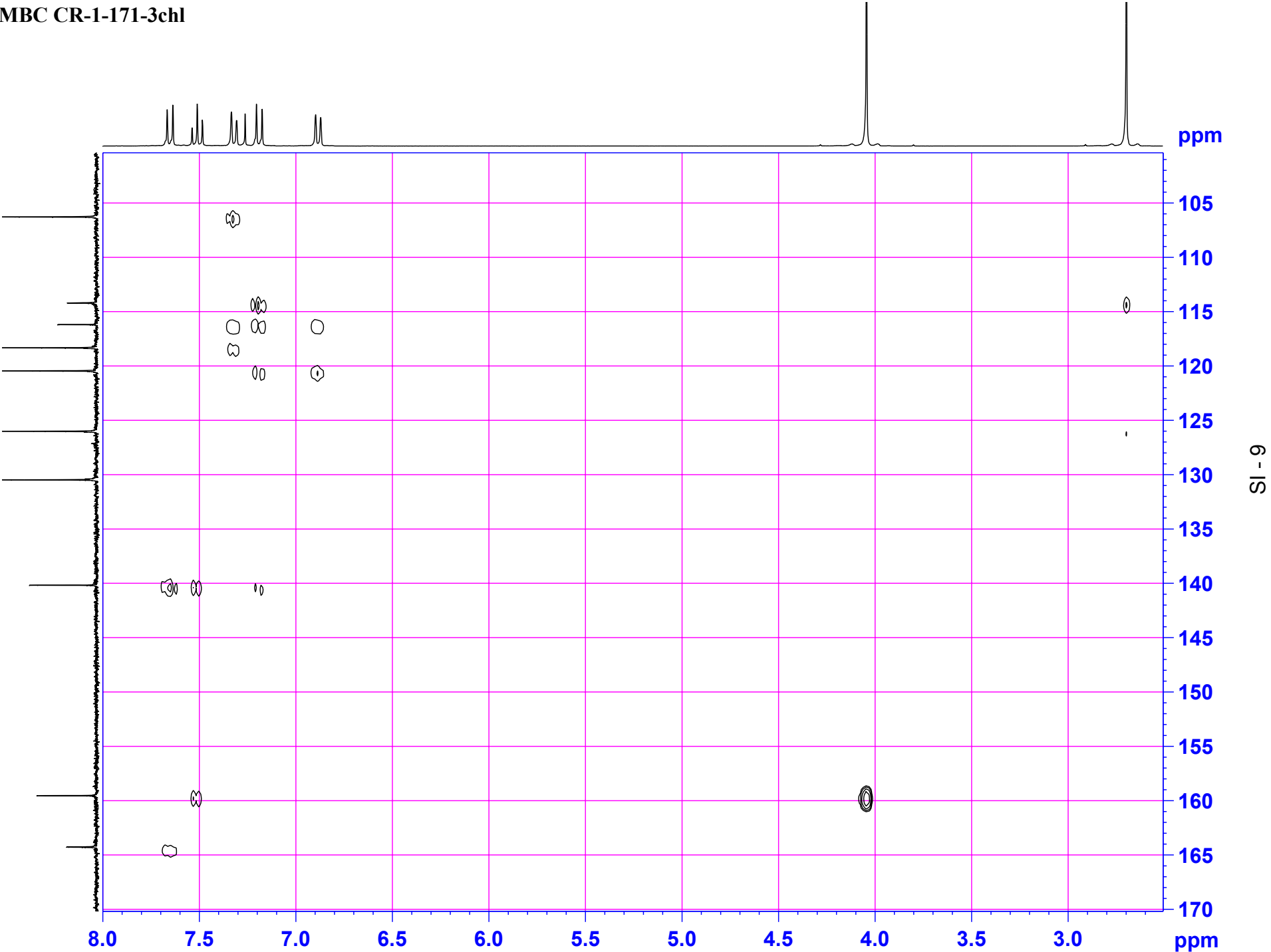
HMQC

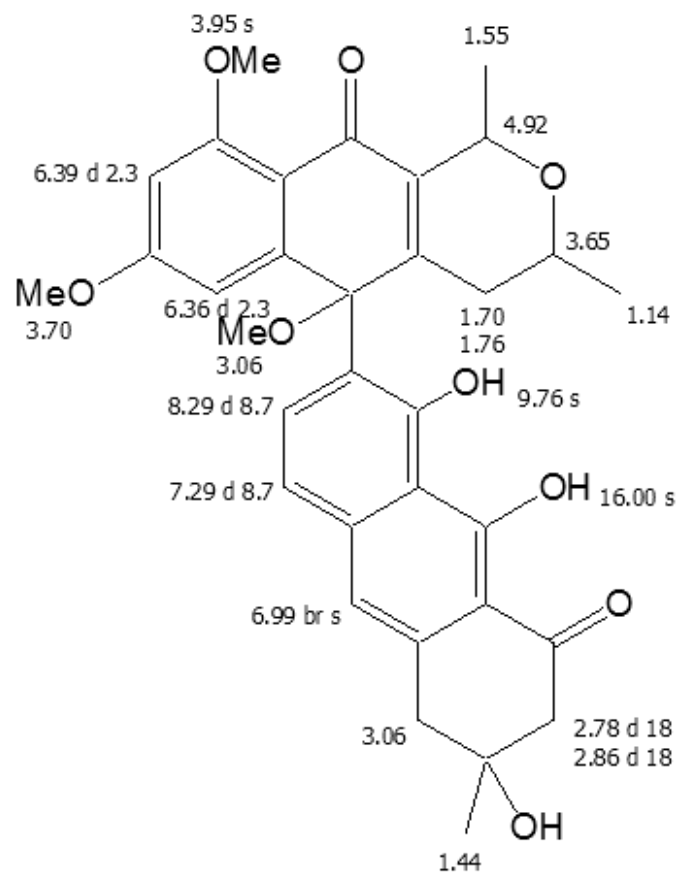


HMBC CR-1-171-3chl

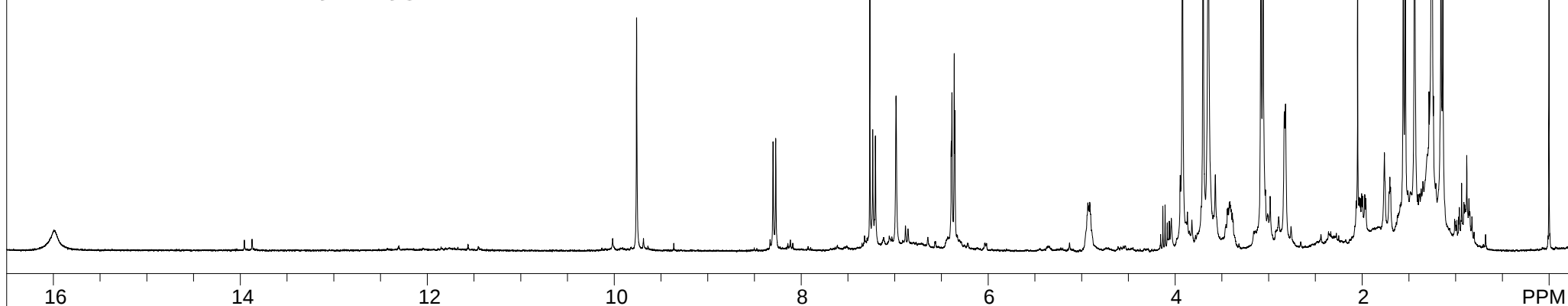


HMBC CR-1-171-3chl





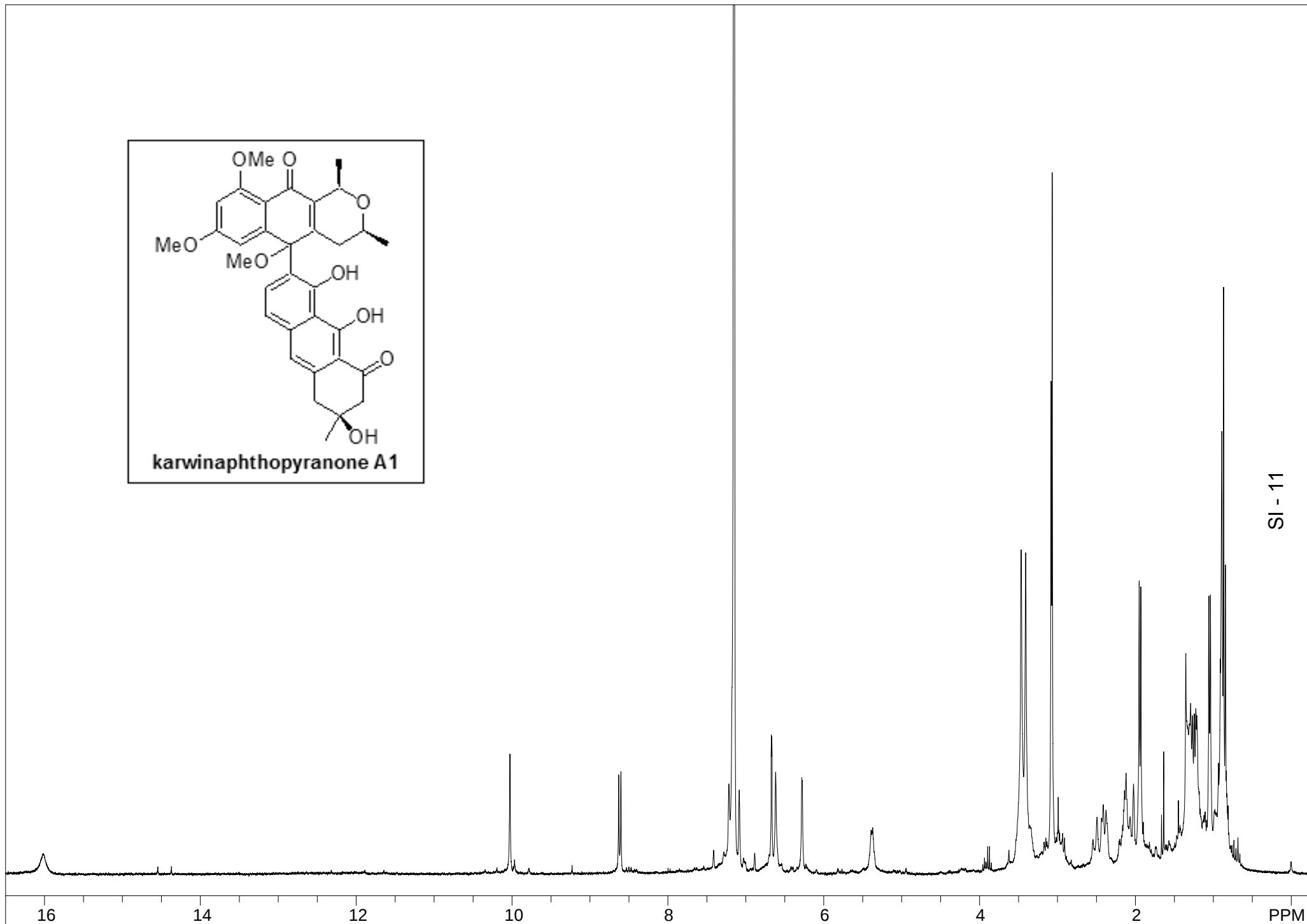
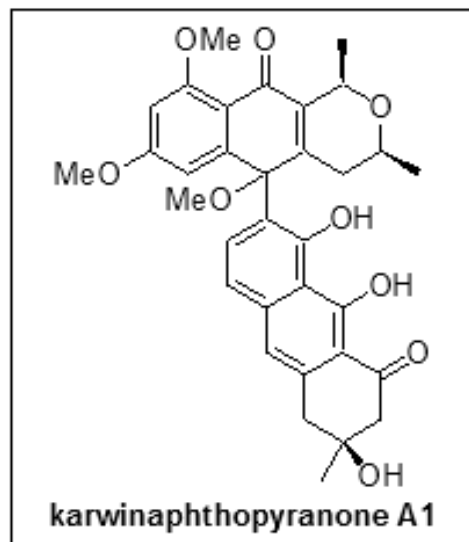
Karwinaphthopyranone A1



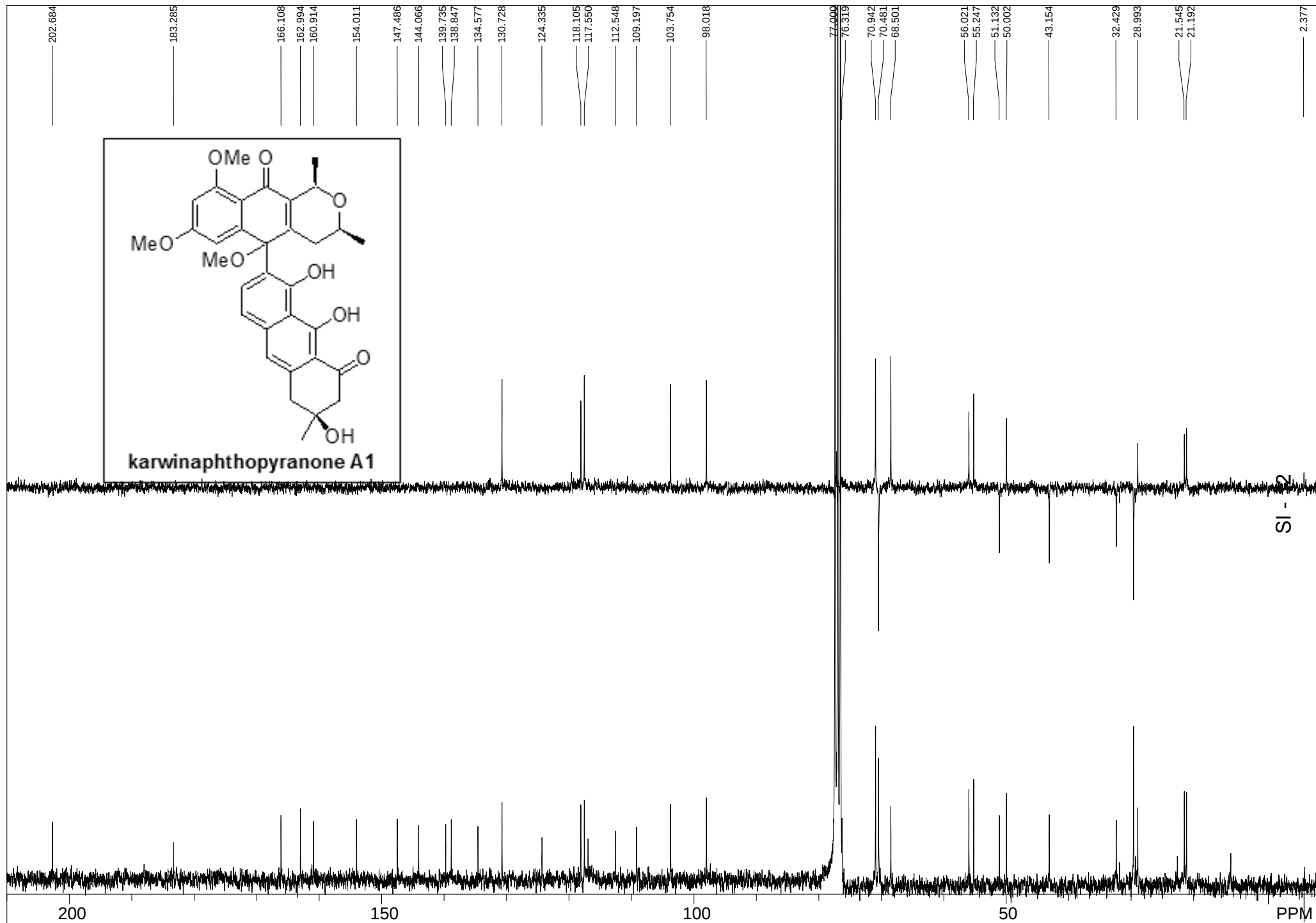
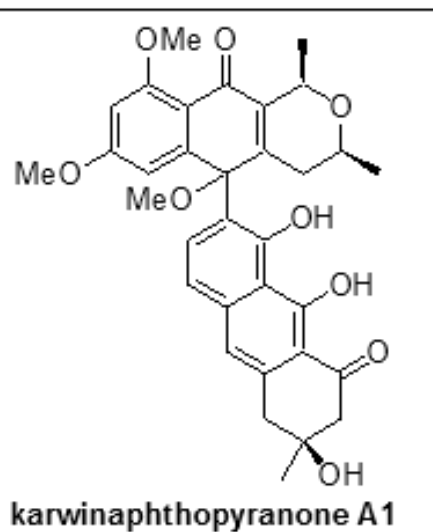
SI - 10

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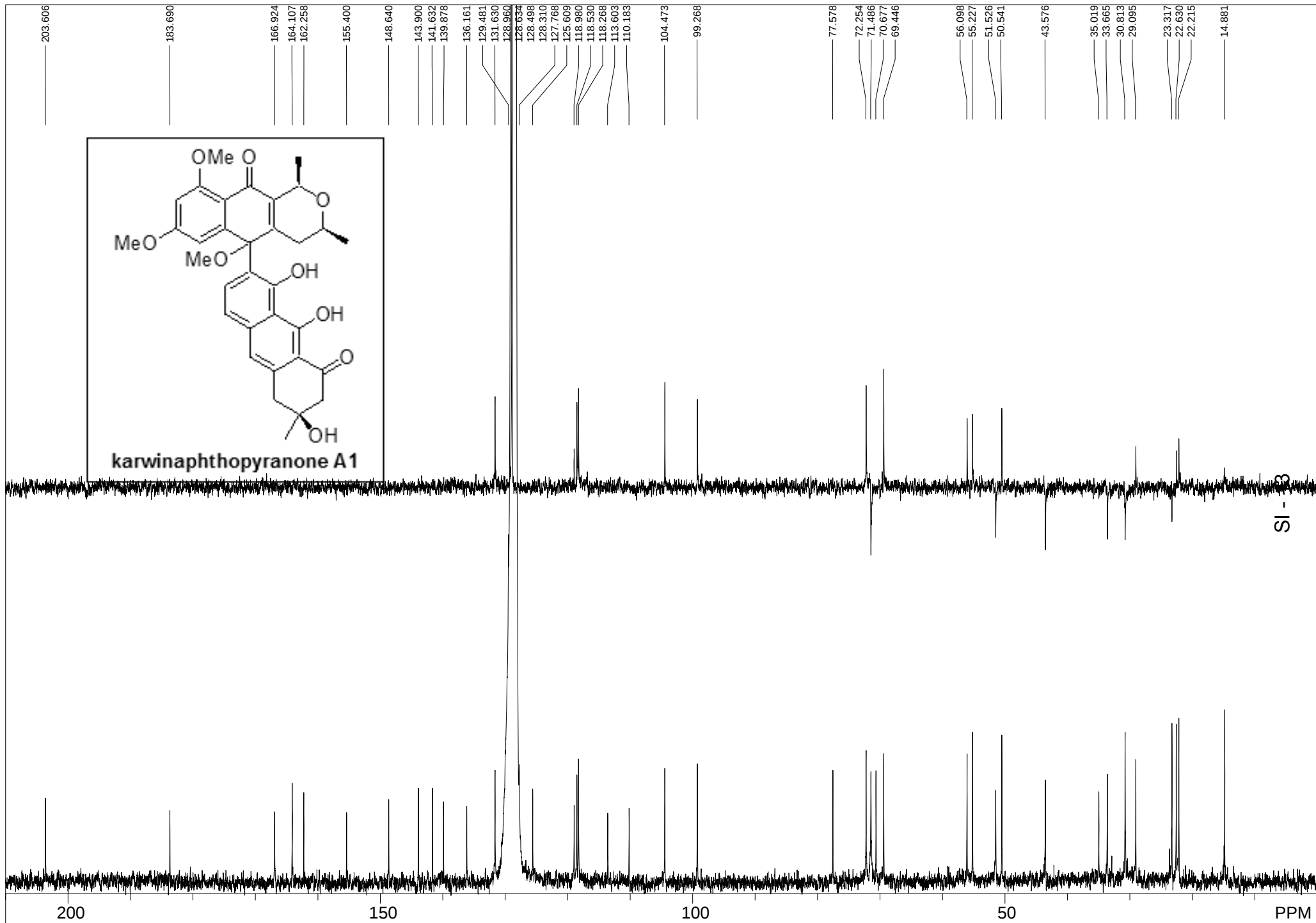
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EX: zg30		PW: 7.5 usec		NA: 16	LB: 0.2	



C6D6 solvent				USER: root -- DATE: Wed Feb 06 19:42:41 2013			
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EX: zg30		PW: 7.5 usec	PD: 1.0 sec	NA: 16	LB: 0.2	Nuts - \$HO-8-107-23B_1	

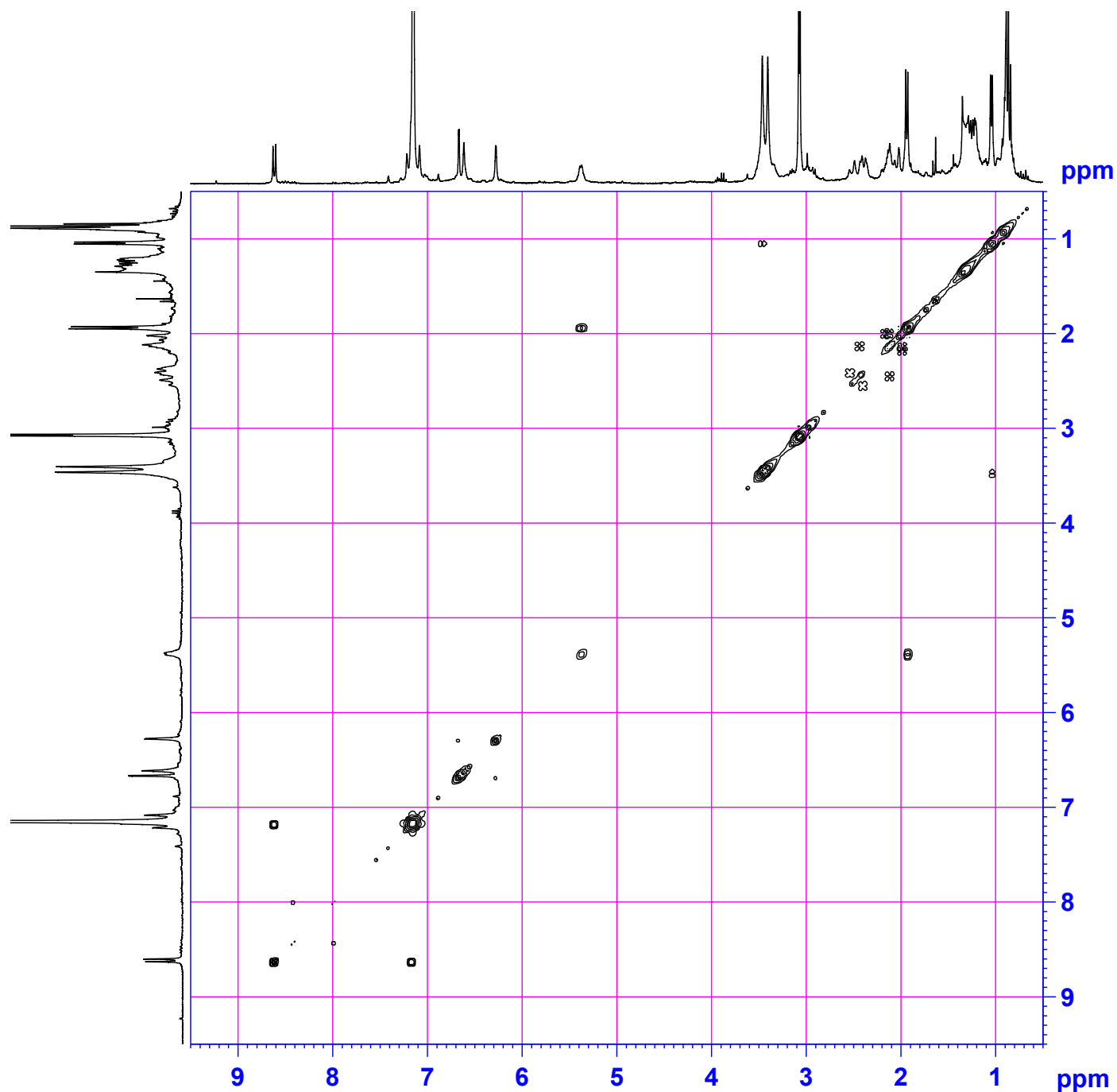


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EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 2193	LB: 1.8	Nuts - \$HO-8-107-23_2	



USER: root -- DATE: Thu Feb 07 15:52:58 2013							
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EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 19069	LB: 1.8	Nuts - \$HO-8-107-23B_2	

COSY HO-8-107-23B



Current Data Parameters
NAME HO-8-107-23B
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20130214
Time_ 19.50
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG cosygpgf
TD 4096
SOLVENT Acetone
NS 8
DS 16
SWH 4496.403 Hz
FIDRES 1.097755 Hz
AQ 0.4555252 sec
RG 128
DW 111.200 usec
DE 6.00 usec
TE 300.0 K
d0 0.00000300 sec
d1 4.00000000 sec
d13 0.00000400 sec
d16 0.00010000 sec
IN0 0.00022240 sec
MCREST 0.00000000 sec
MCWRK 4.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P0 7.20 usec
P1 7.20 usec
PL1 -3.00 dB
SFO1 300.1315007 MHz

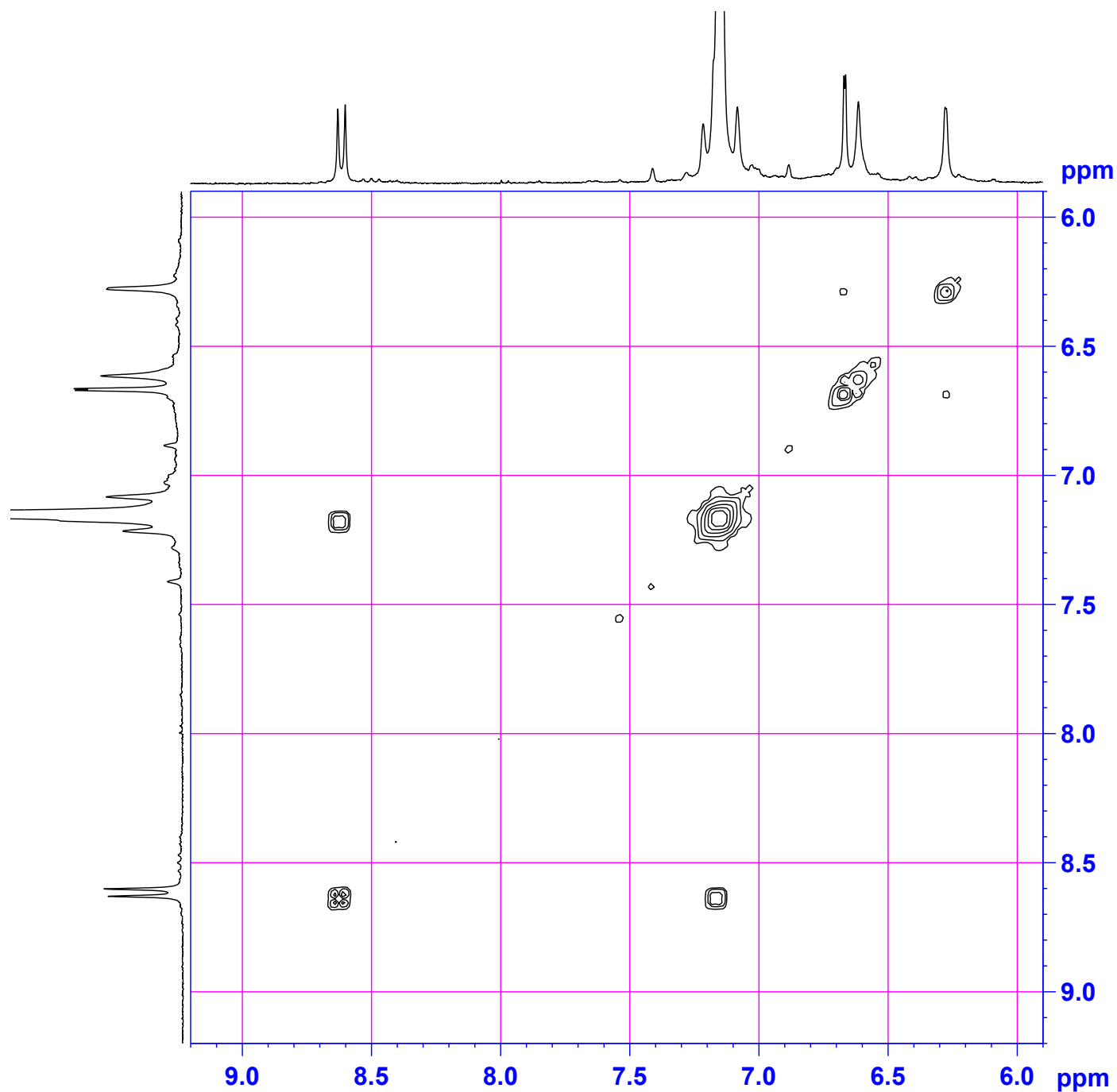
===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPNAM2 SINE.100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

F1 - Acquisition parameters
ND0 1
TD 256
SFO1 300.1315 MHz
FIDRES 17.564074 Hz
SW 14.981 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 300.1300105 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1300105 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

COSY HO-8-107-23B



Current Data Parameters
NAME HO-8-107-23B
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20130214
Time_ 19.50
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG cosygpgf
TD 4096
SOLVENT Acetone
NS 8
DS 16
SWH 4496.403 Hz
FIDRES 1.097755 Hz
AQ 0.4555252 sec
RG 128
DW 111.200 usec
DE 6.00 usec
TE 300.0 K
d0 0.00000300 sec
d1 4.00000000 sec
d13 0.00000400 sec
d16 0.00010000 sec
IN0 0.00022240 sec
MCREST 0.00000000 sec
MCWRK 4.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P0 7.20 usec
P1 7.20 usec
PL1 -3.00 dB
SFO1 300.1315007 MHz

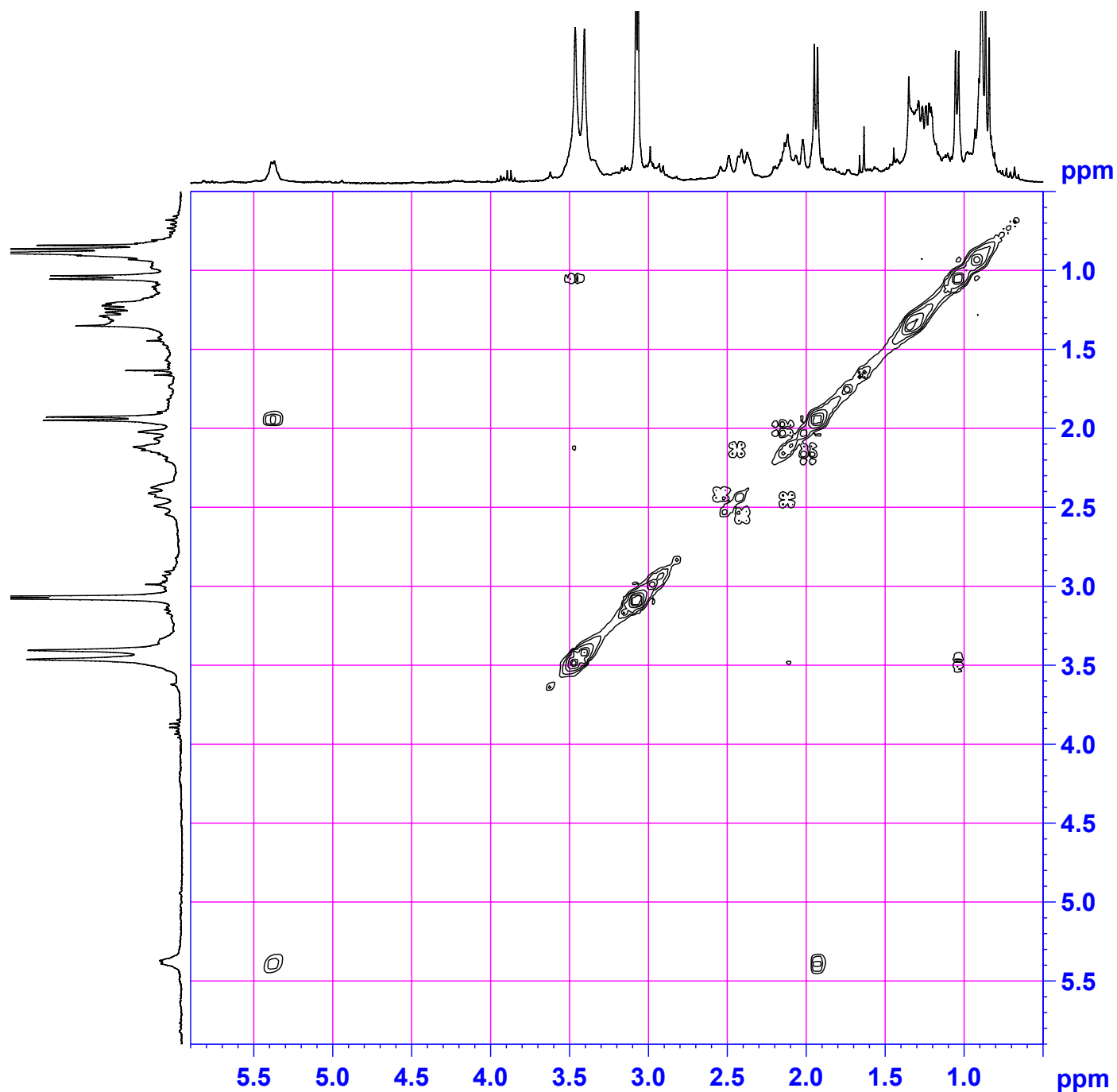
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GPNAM2 SINE.100
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GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

F1 - Acquisition parameters
ND0 1
TD 256
SFO1 300.1315 MHz
FIDRES 17.564074 Hz
SW 14.981 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 300.1300105 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1300105 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

COSY HO-8-107-23B



Current Data Parameters
 NAME HO-8-107-23B
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130214
 Time_ 19.50
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT Acetone
 NS 8
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 INO 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

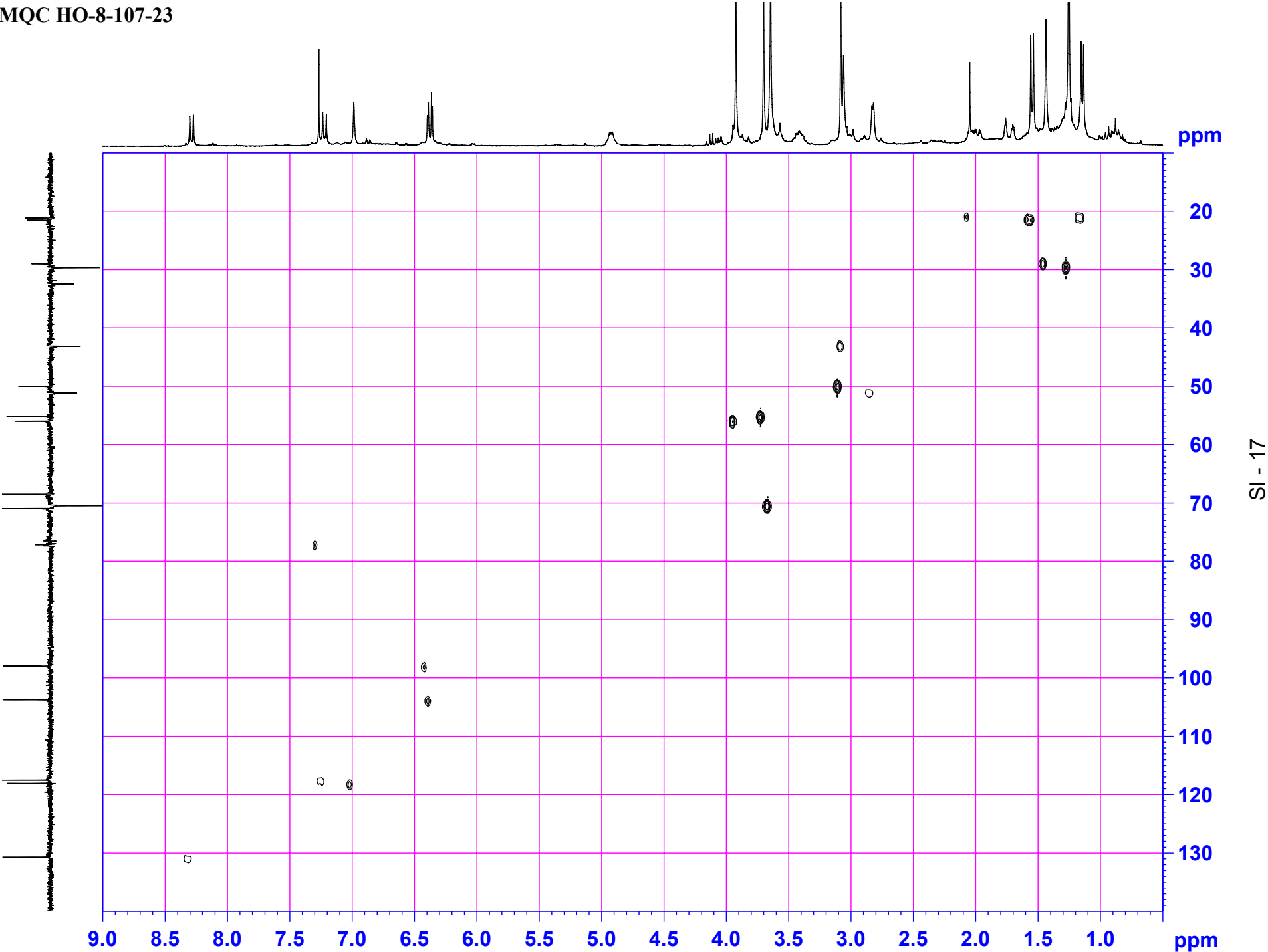
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 GPNAM2 SINE.100
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 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

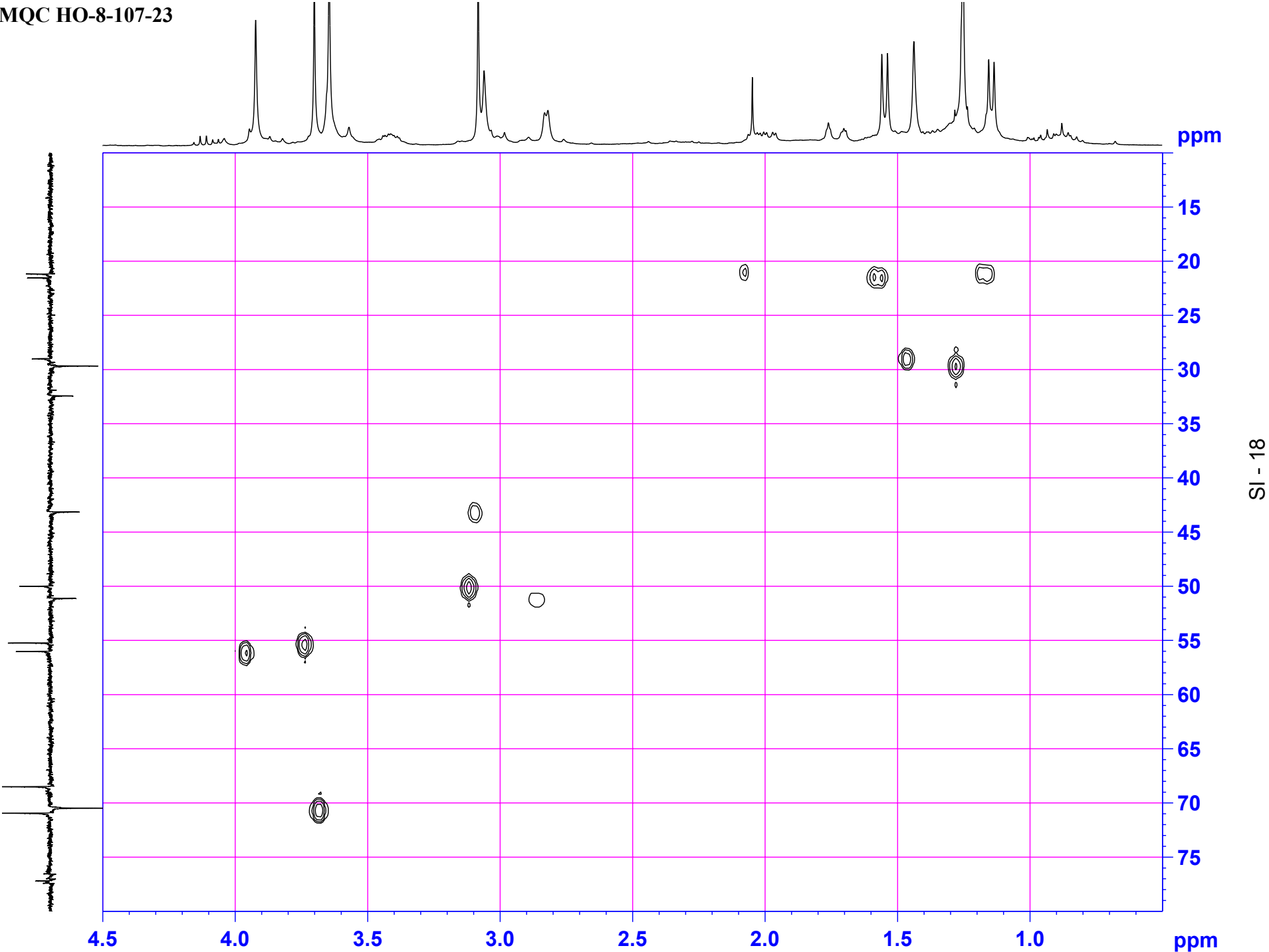
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 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

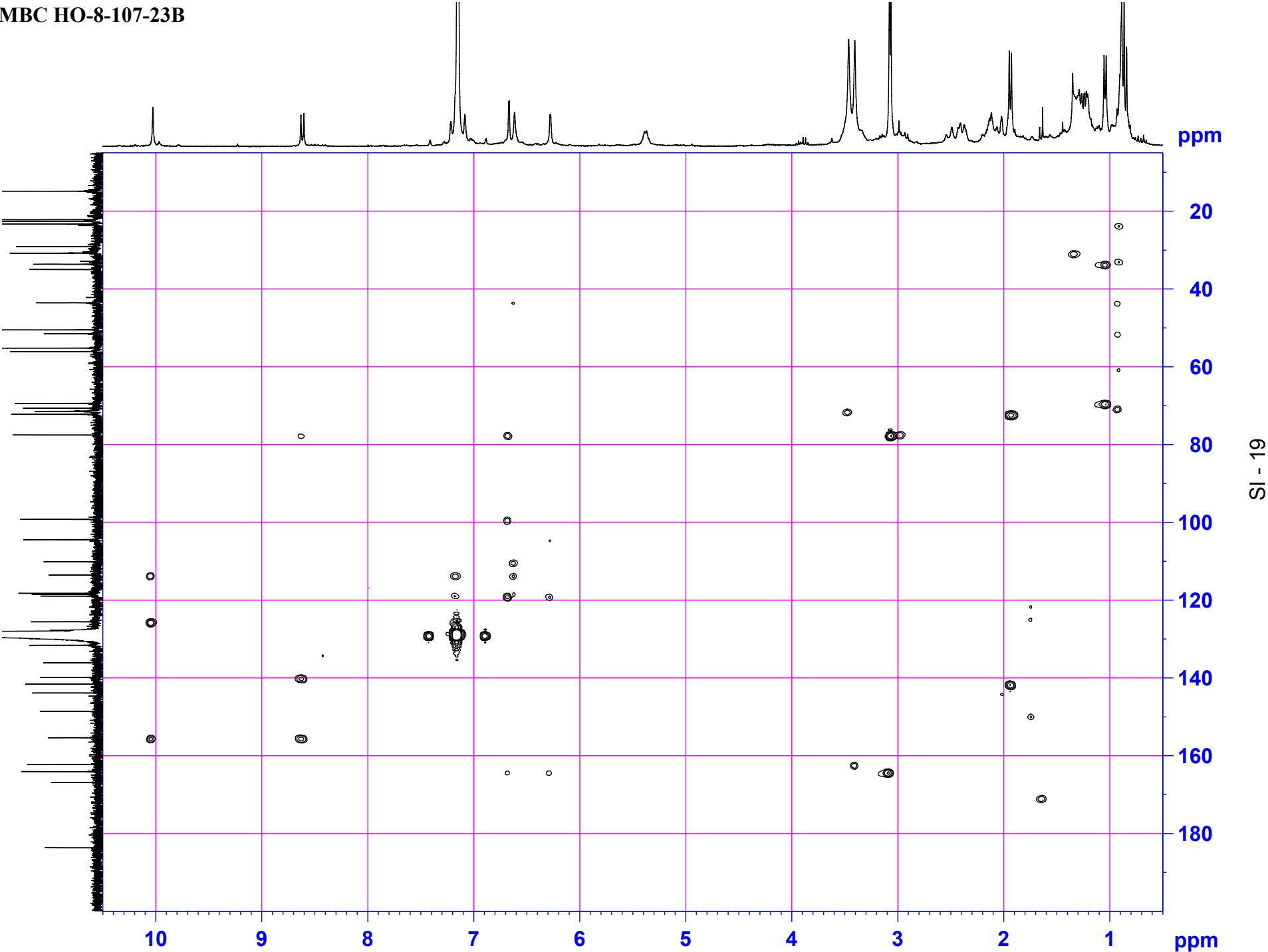
HMQC HO-8-107-23



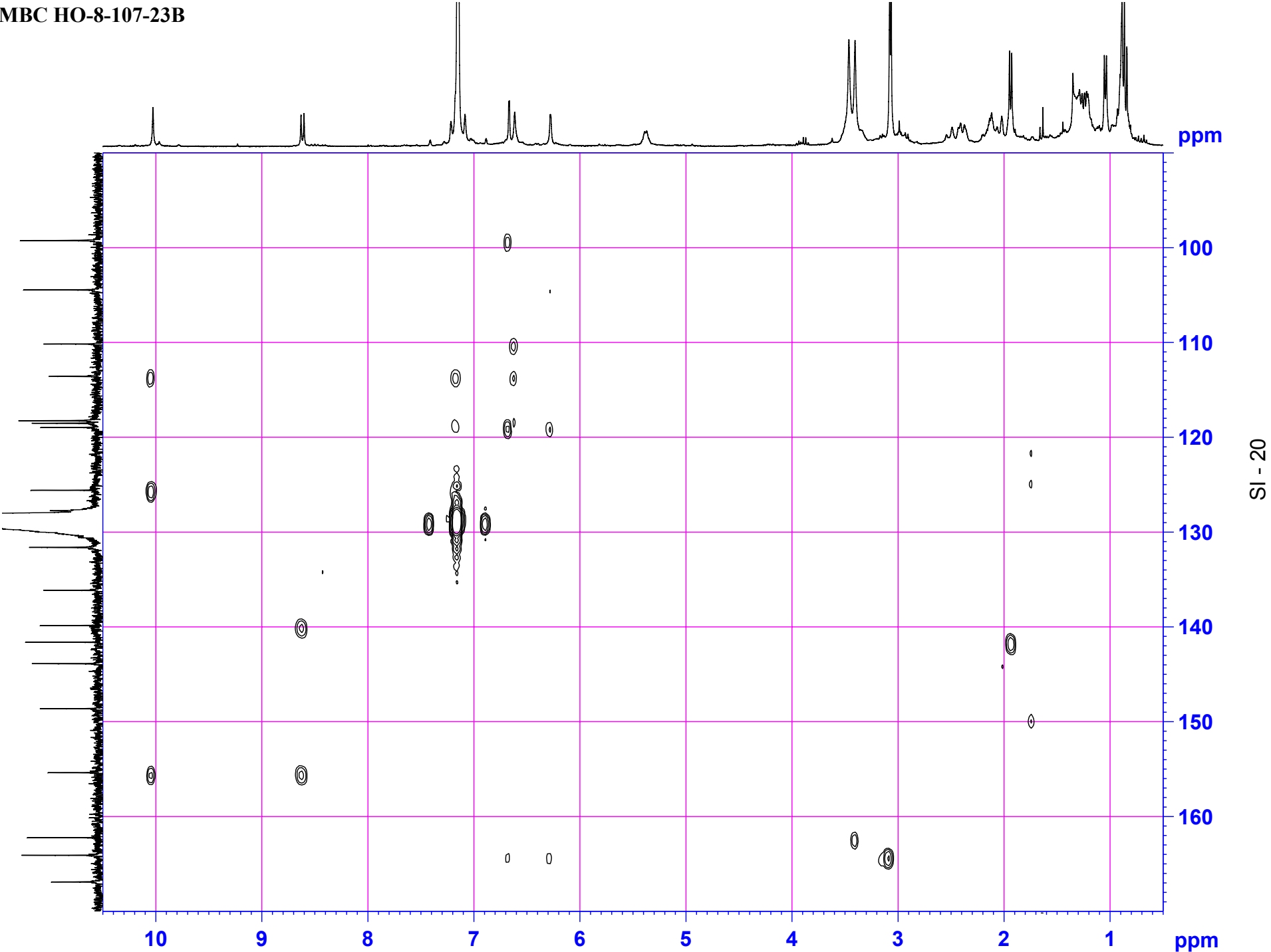
HMQC HO-8-107-23



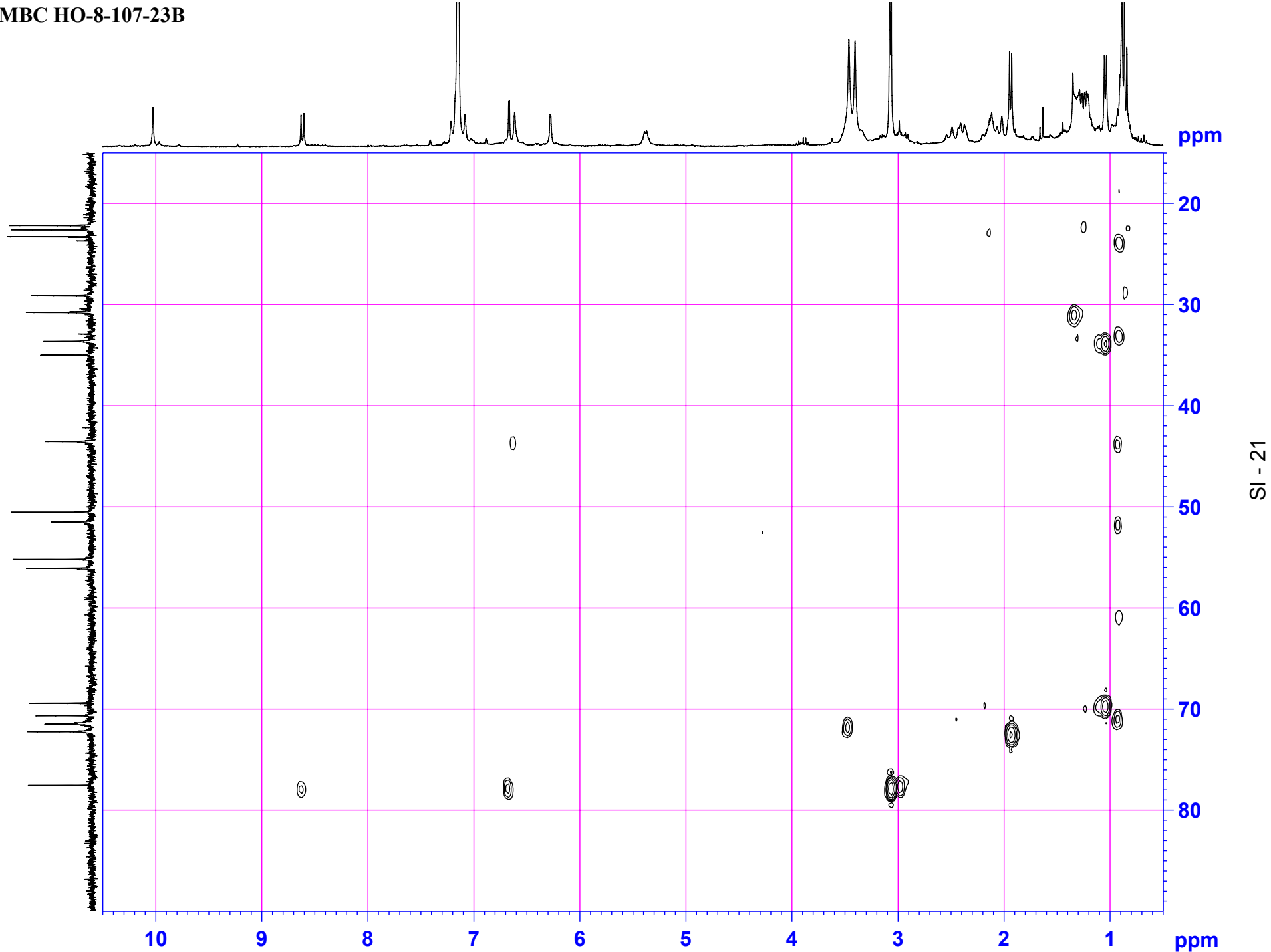
HMBC HO-8-107-23B



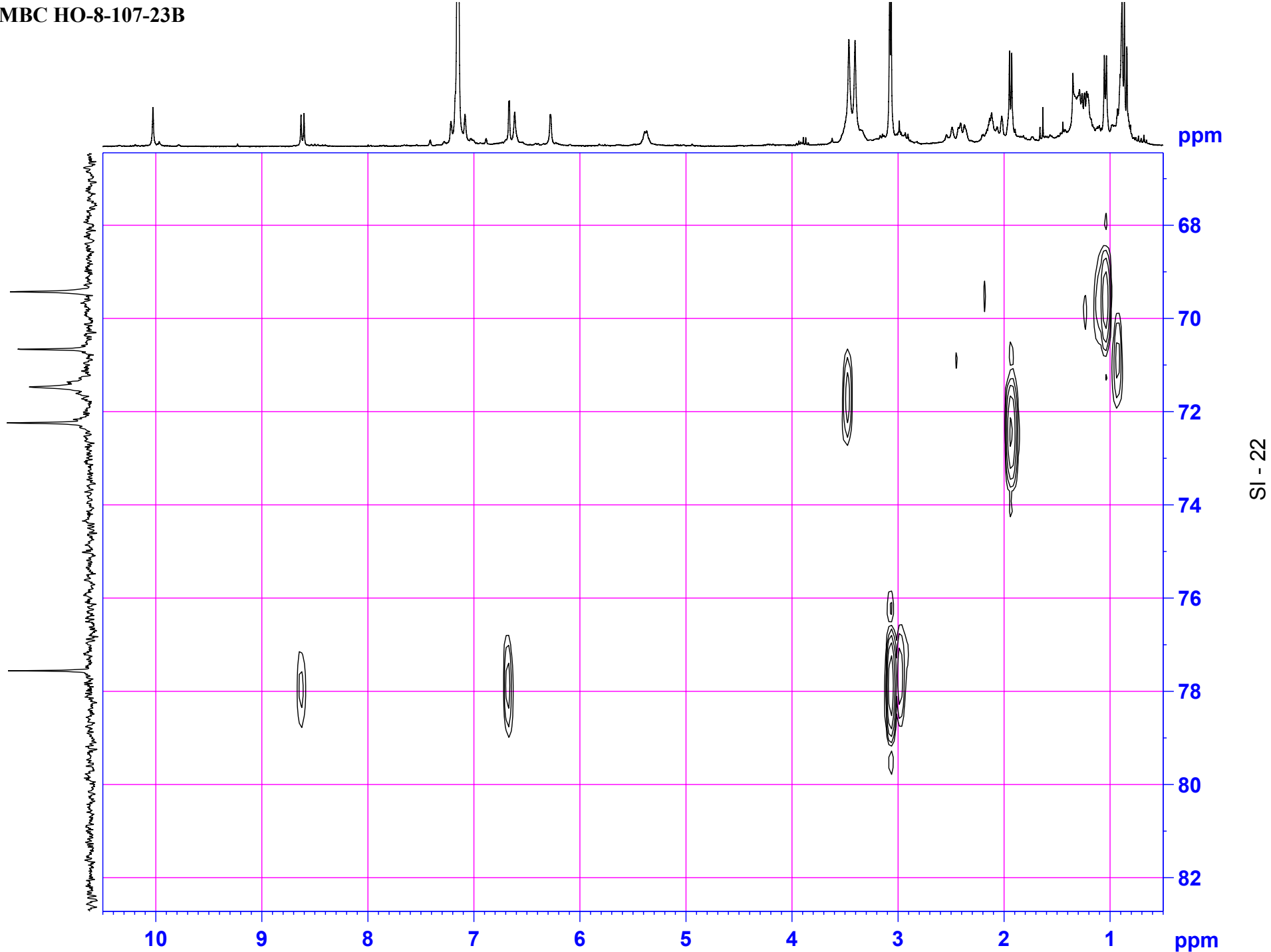
HMBC HO-8-107-23B

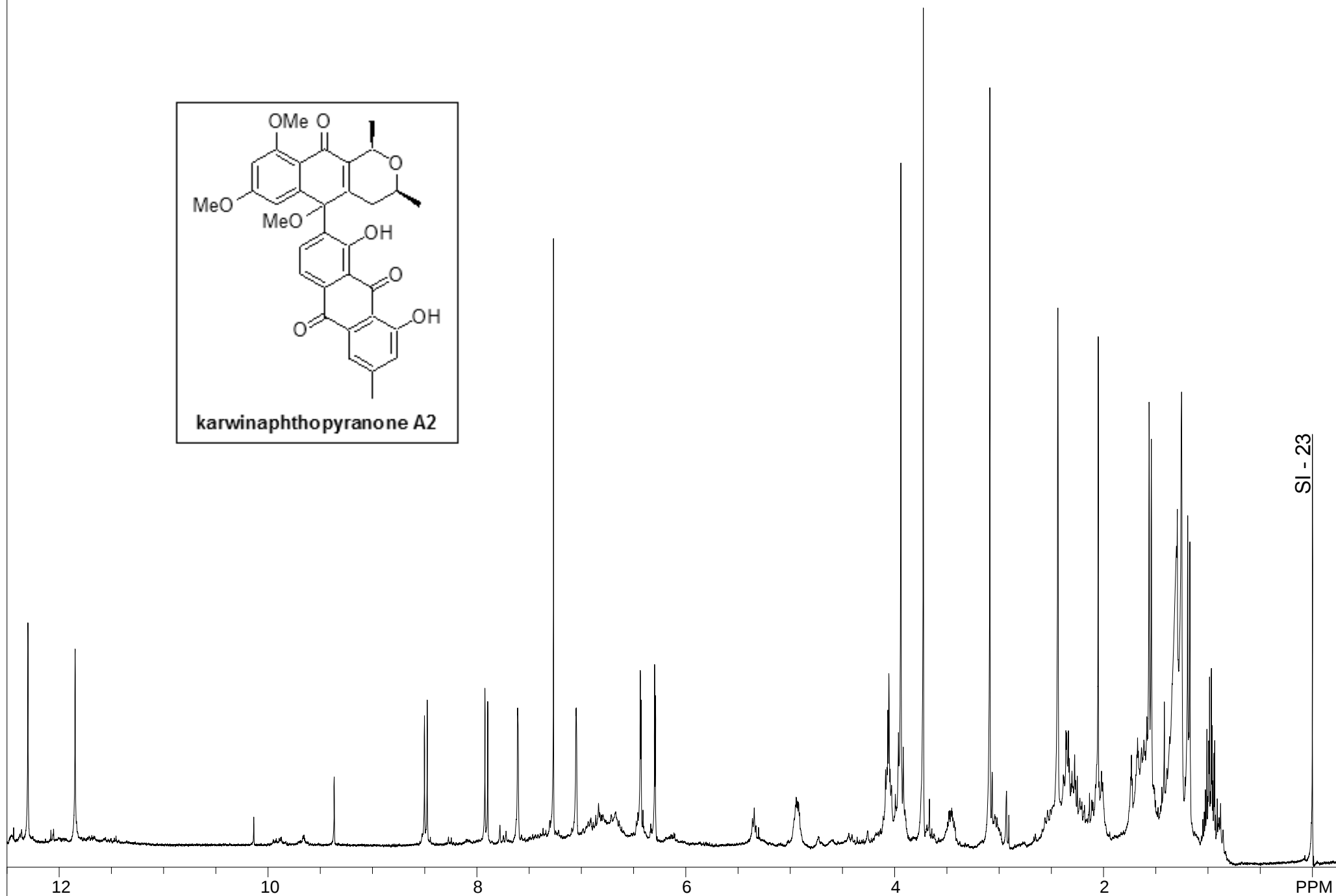
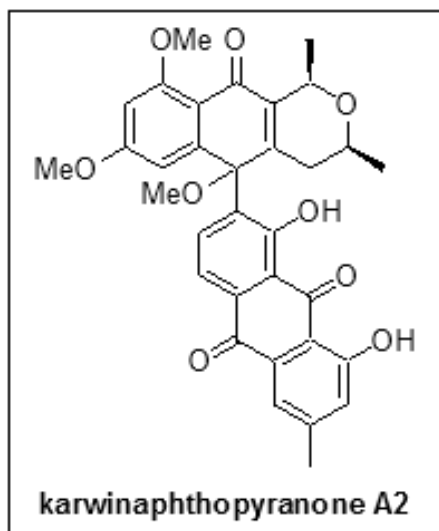


HMBC HO-8-107-23B

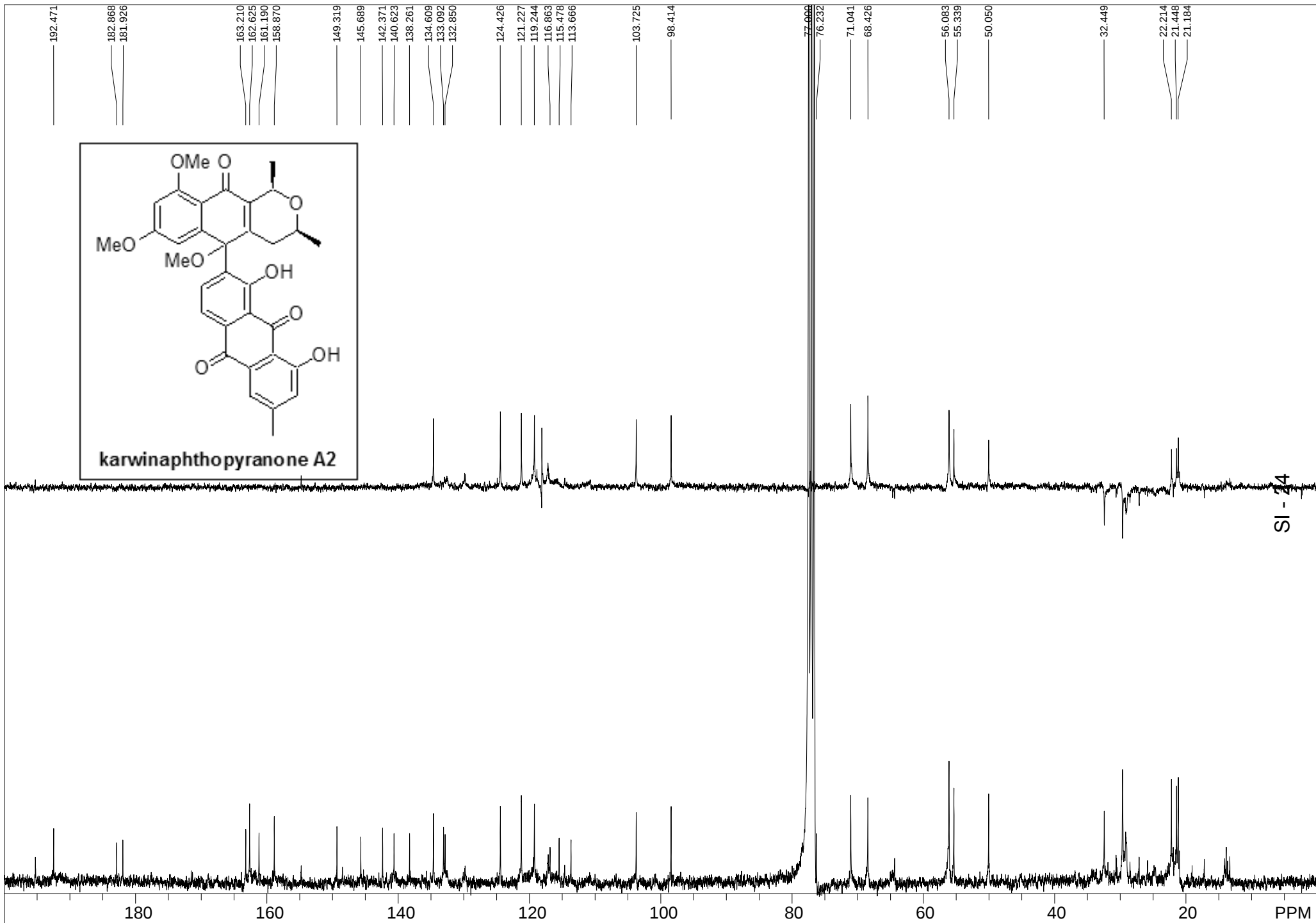


HMBC HO-8-107-23B



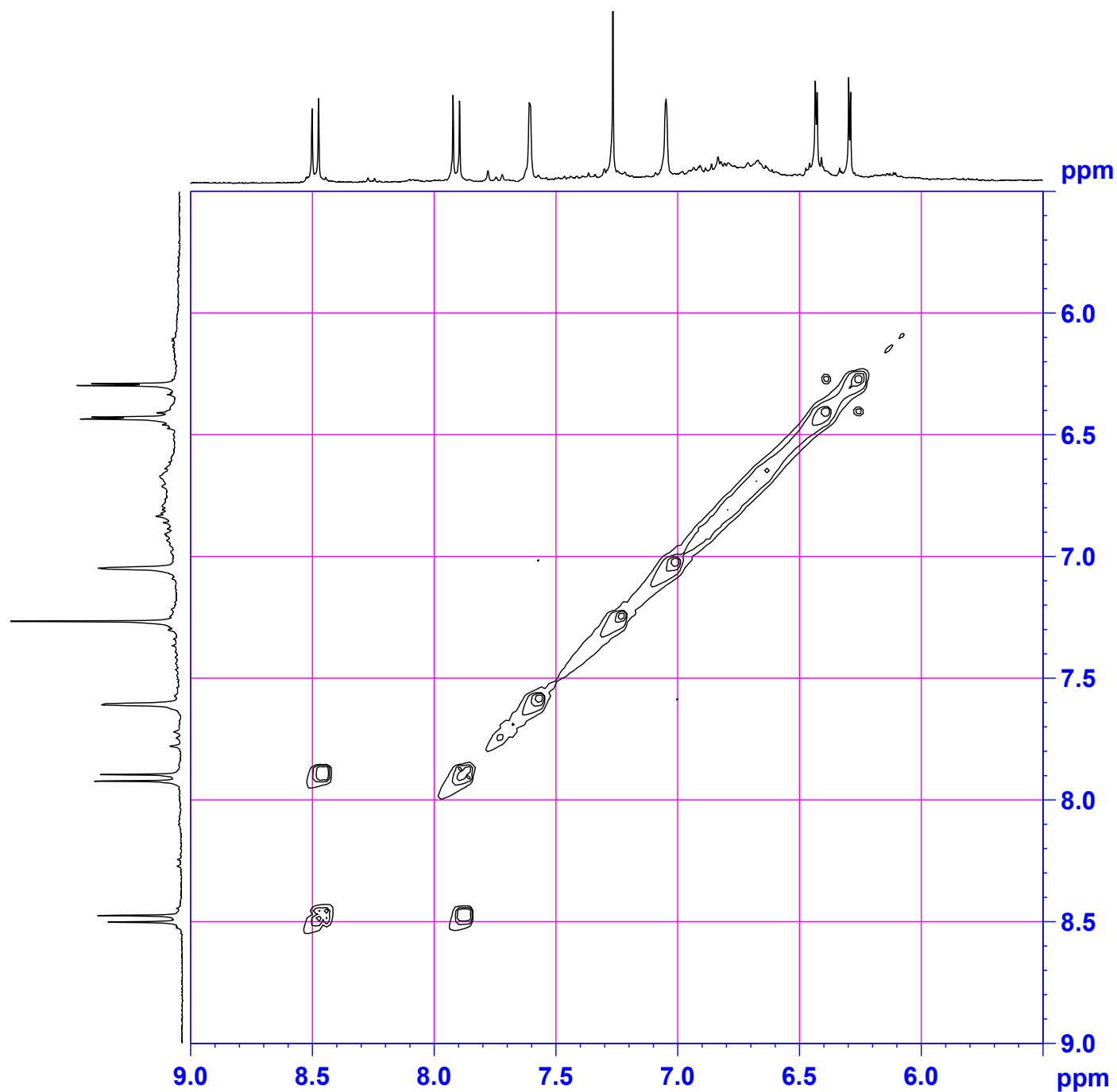


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USER: root -- DATE: Mon Feb 11 22:55:07 2013							
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EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 19283	LB: 1.8	Nuts - \$CR-1-165-2 2	

COSY CR-1-165-2



Current Data Parameters
 NAME CR-1-165-2
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130213
 Time_ 8.31
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 4
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 INO 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

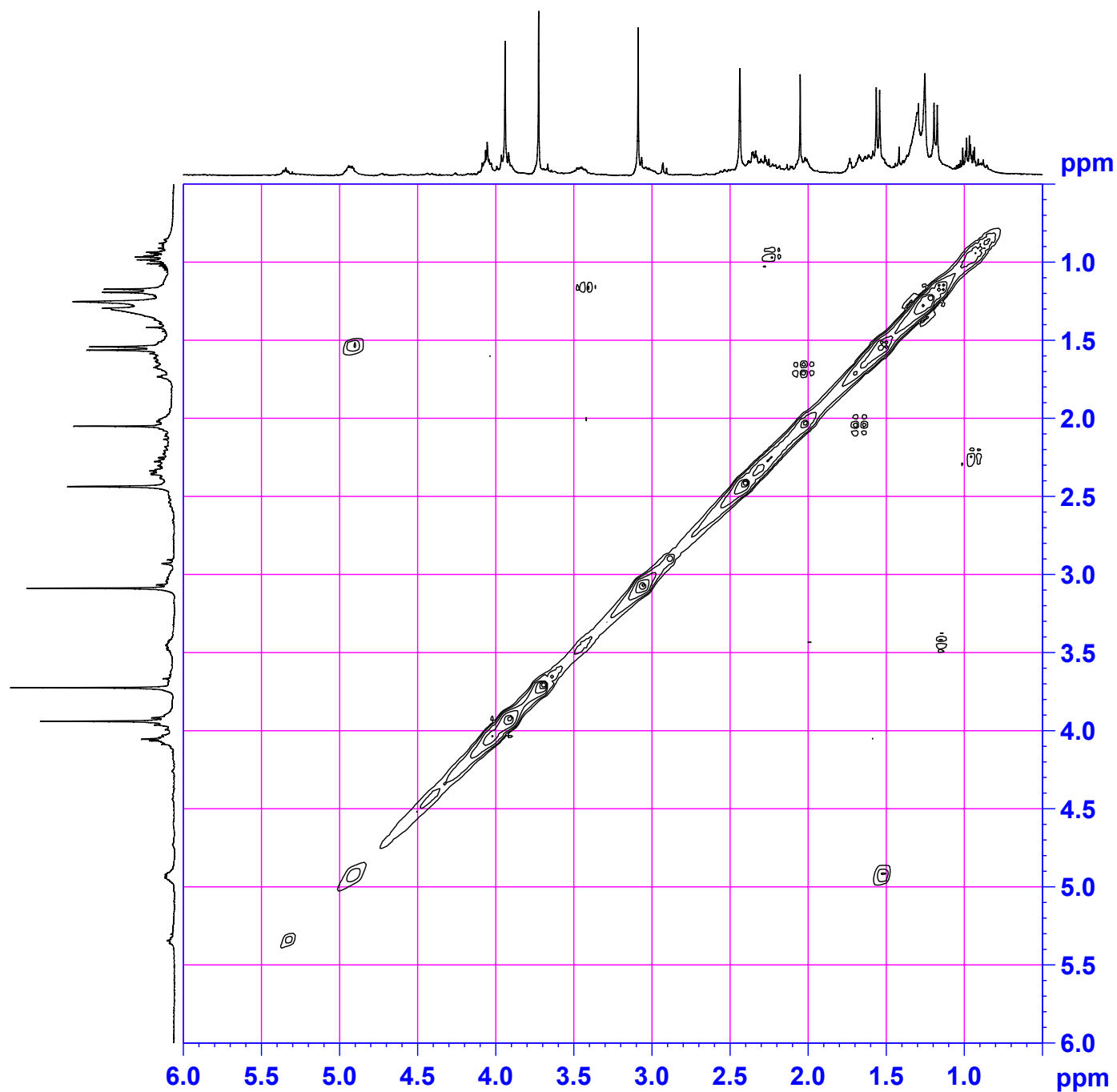
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 GPNAM2 SINE.100
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 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

COSY CR-1-165-2



Current Data Parameters
 NAME CR-1-165-2
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130213
 Time_ 8.31
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 4
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 D16 0.00010000 sec
 IN0 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

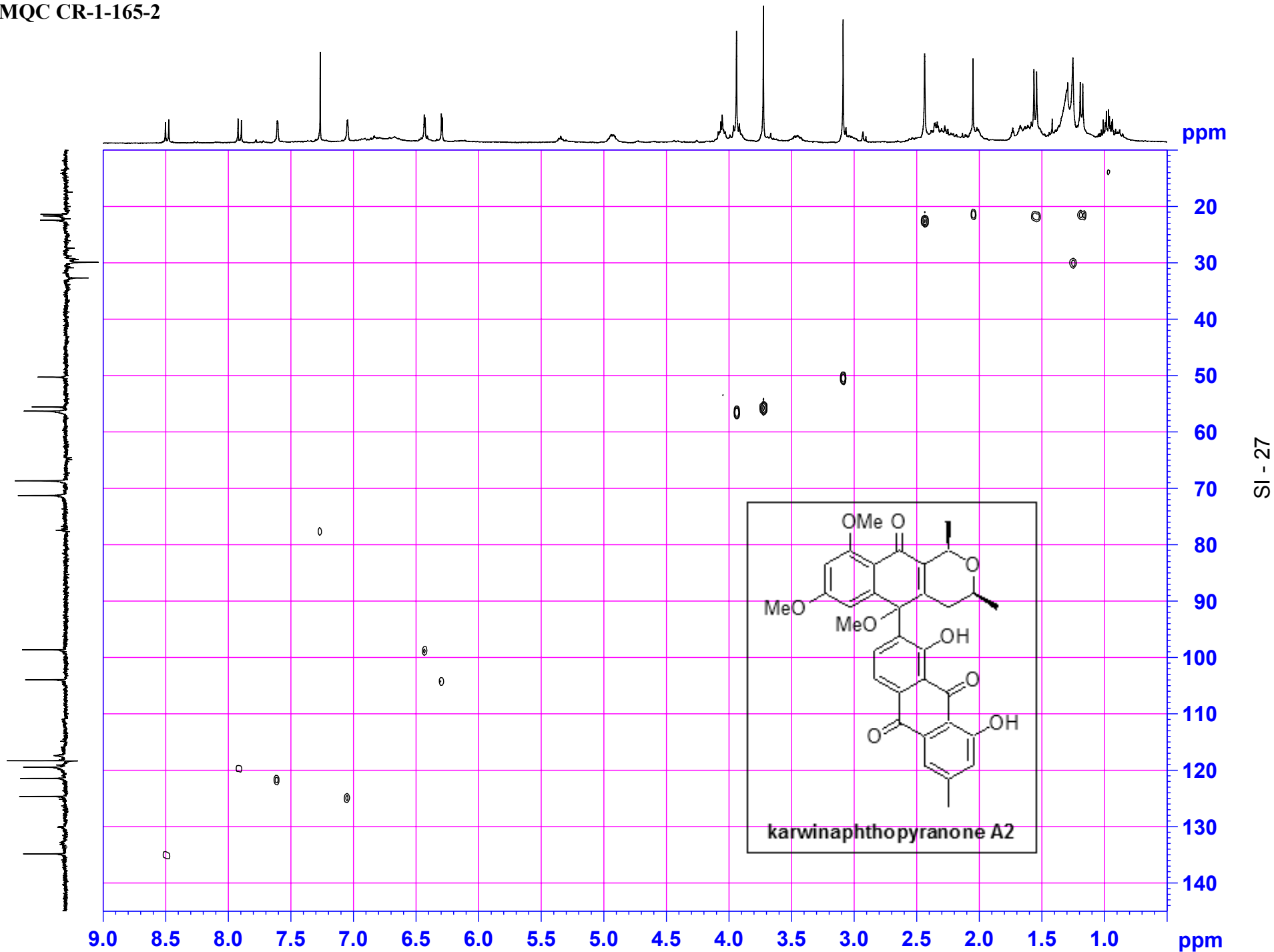
===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

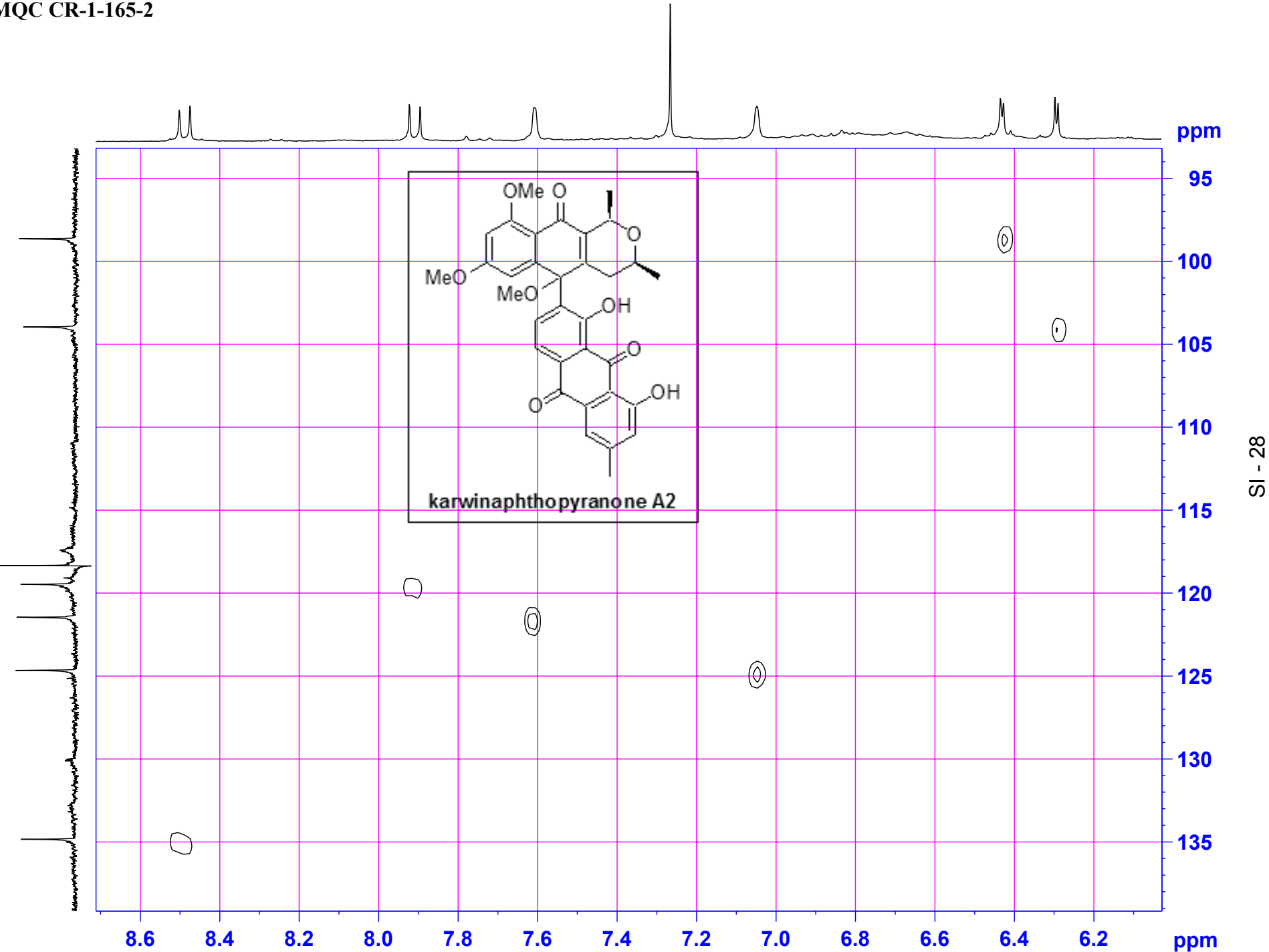
===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPX1 0.00 %
 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

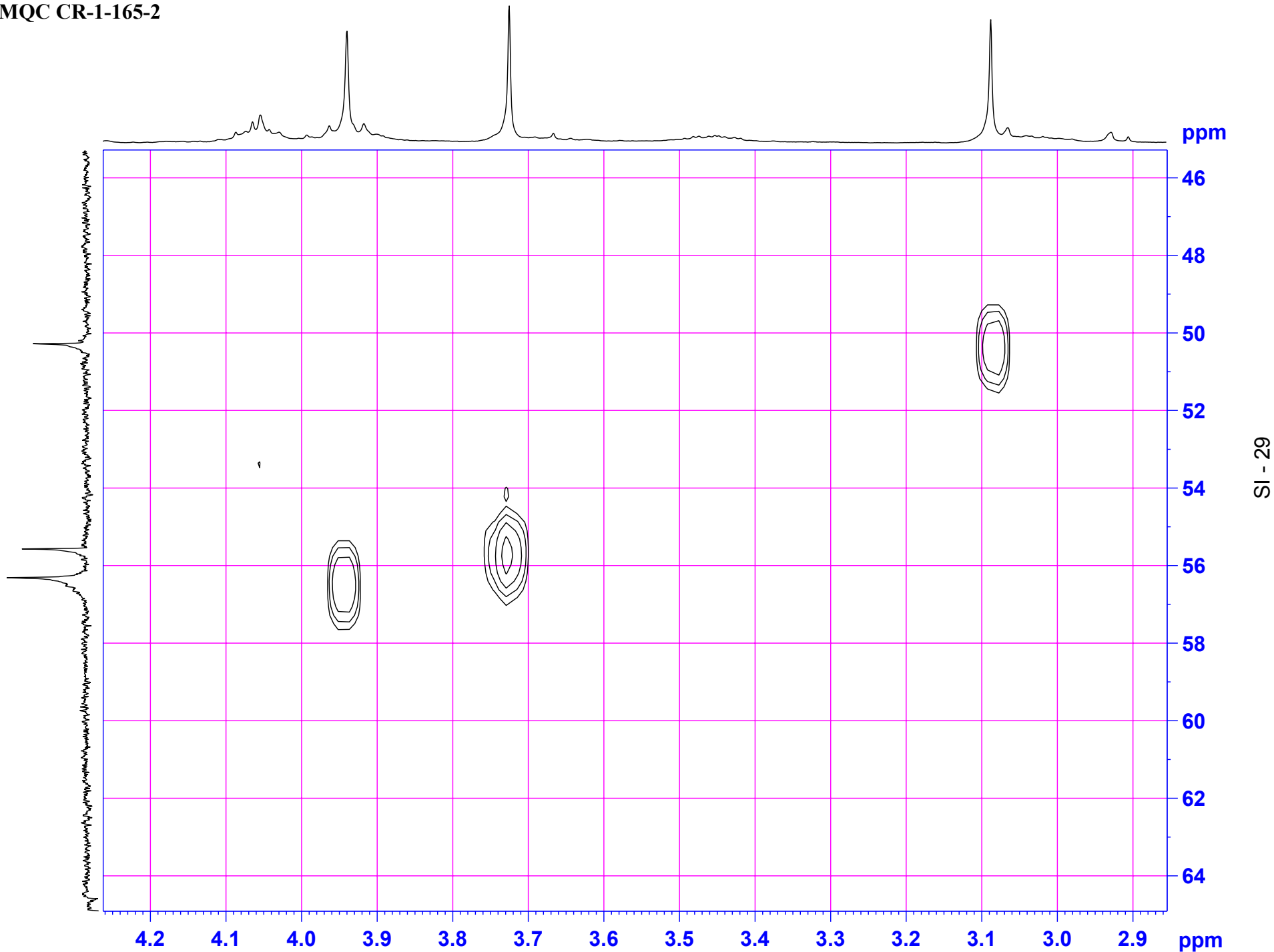
F2 - Processing parameters
 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

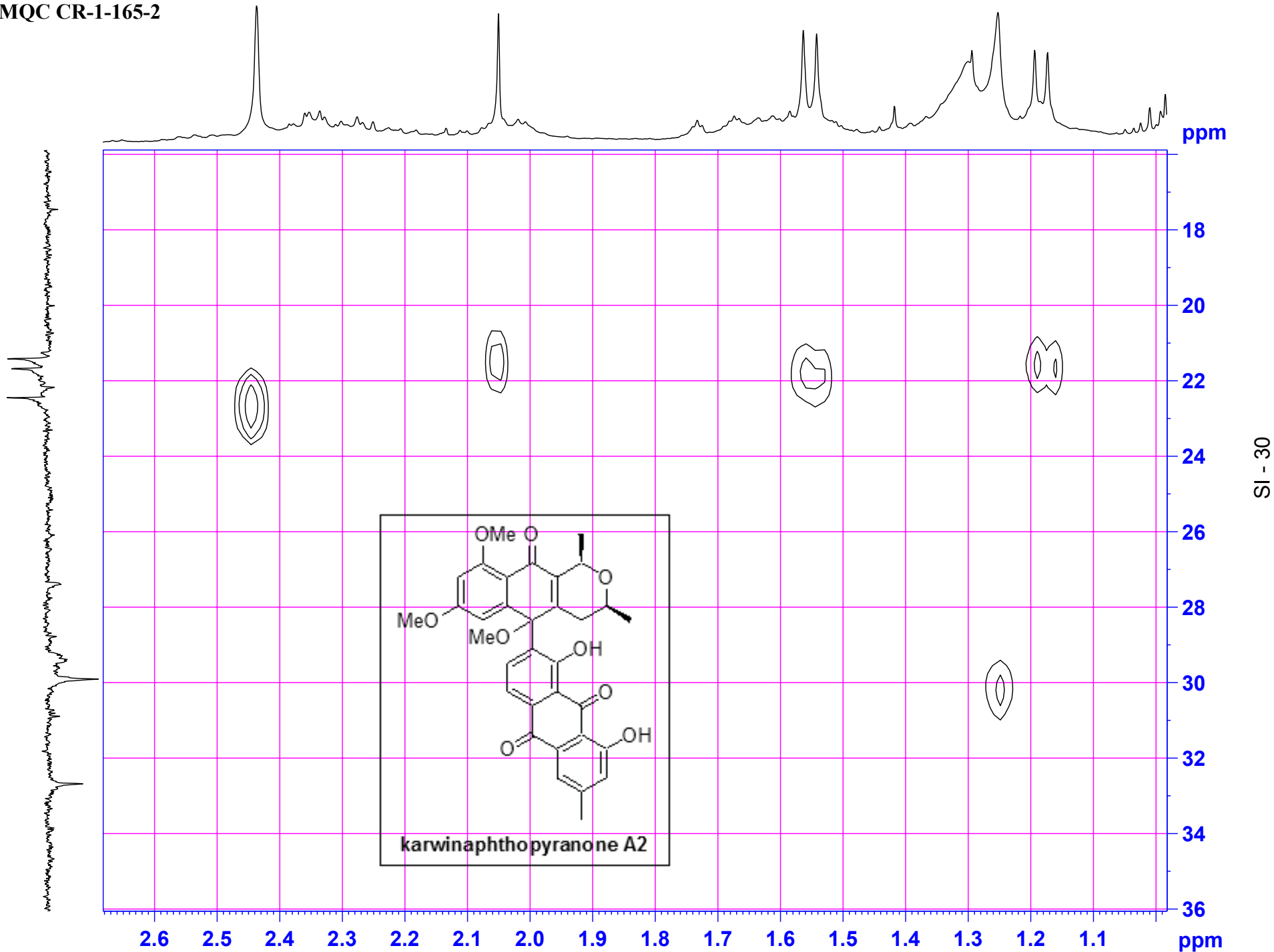




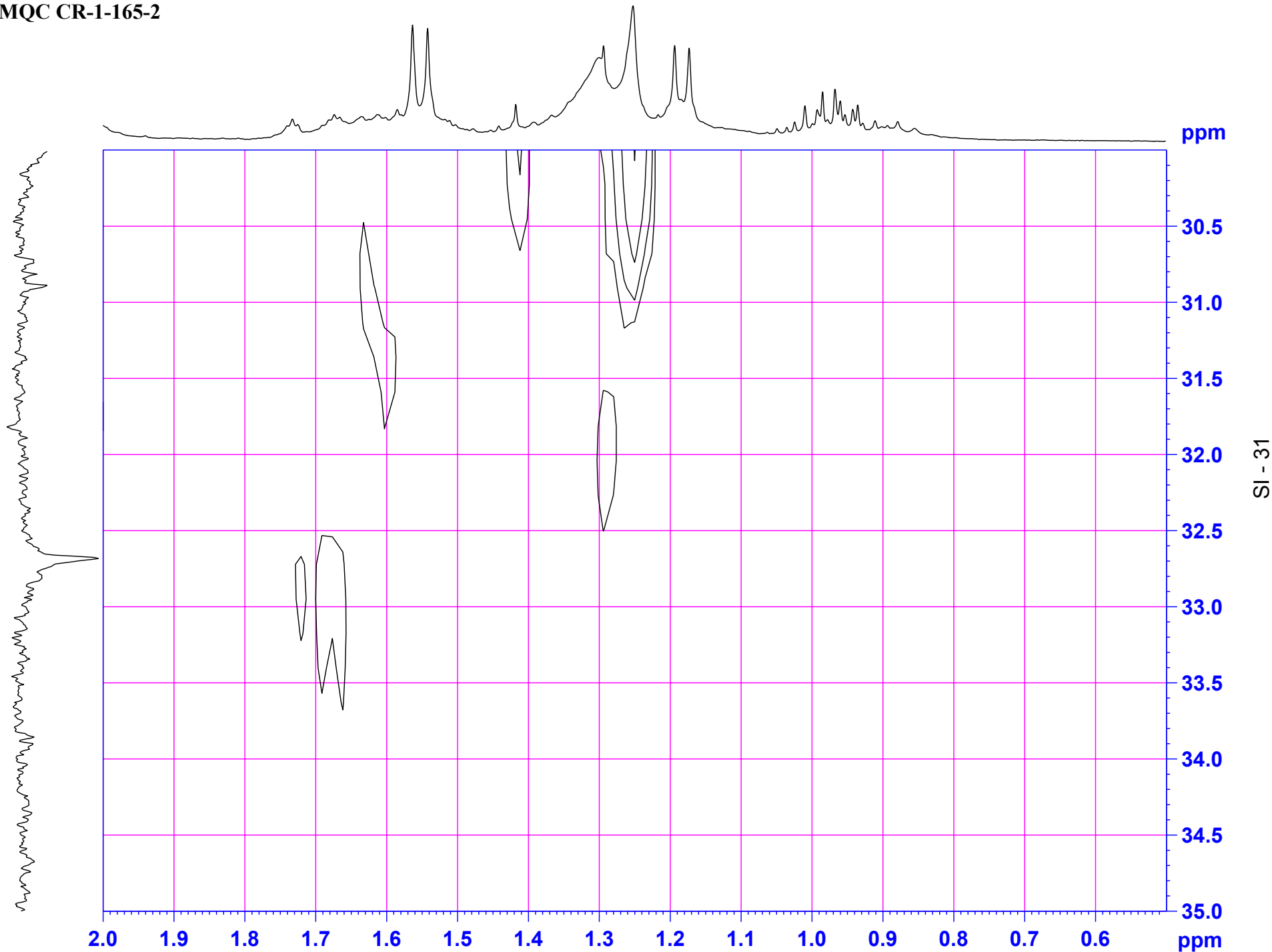
HMQC CR-1-165-2

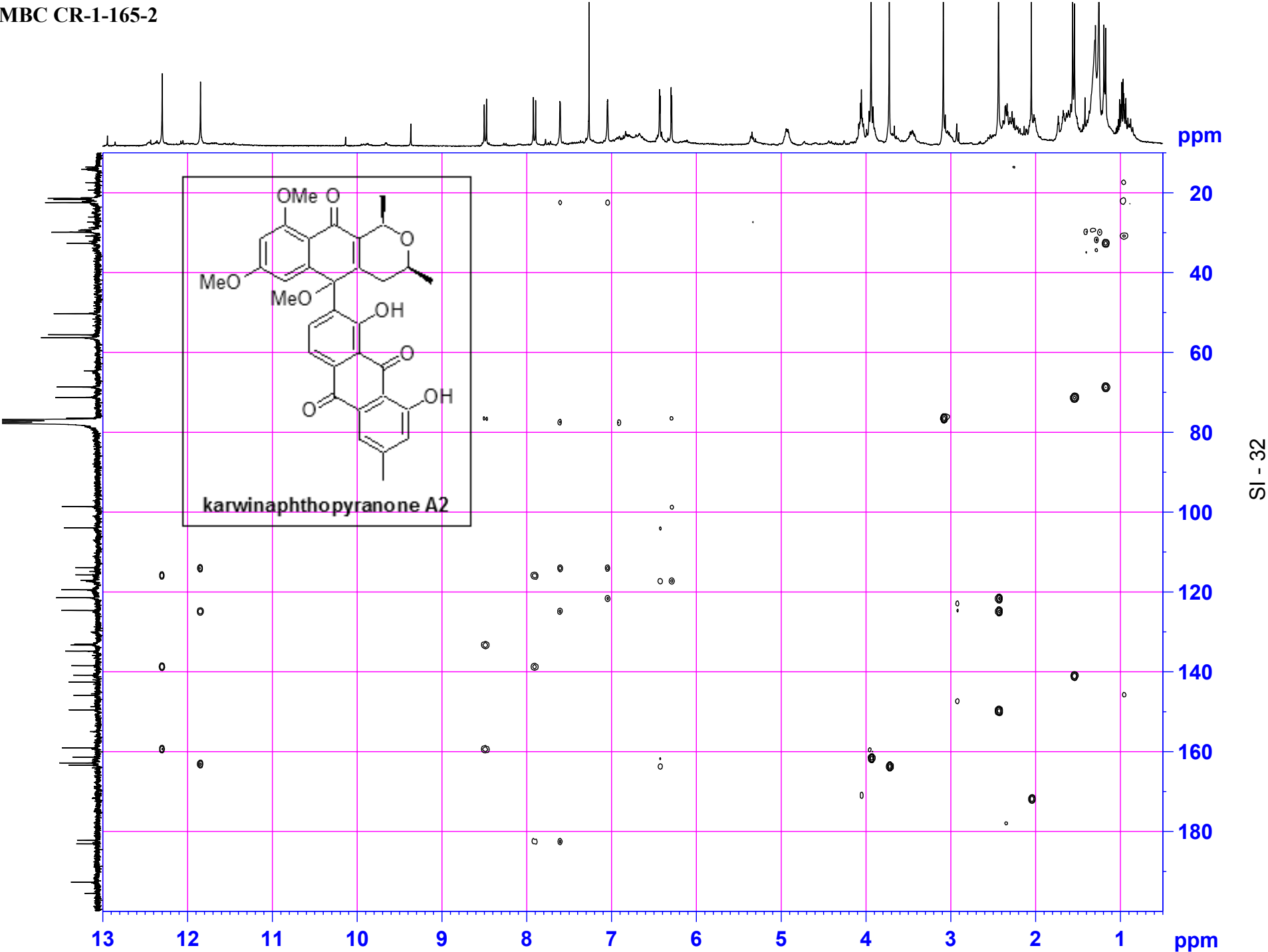


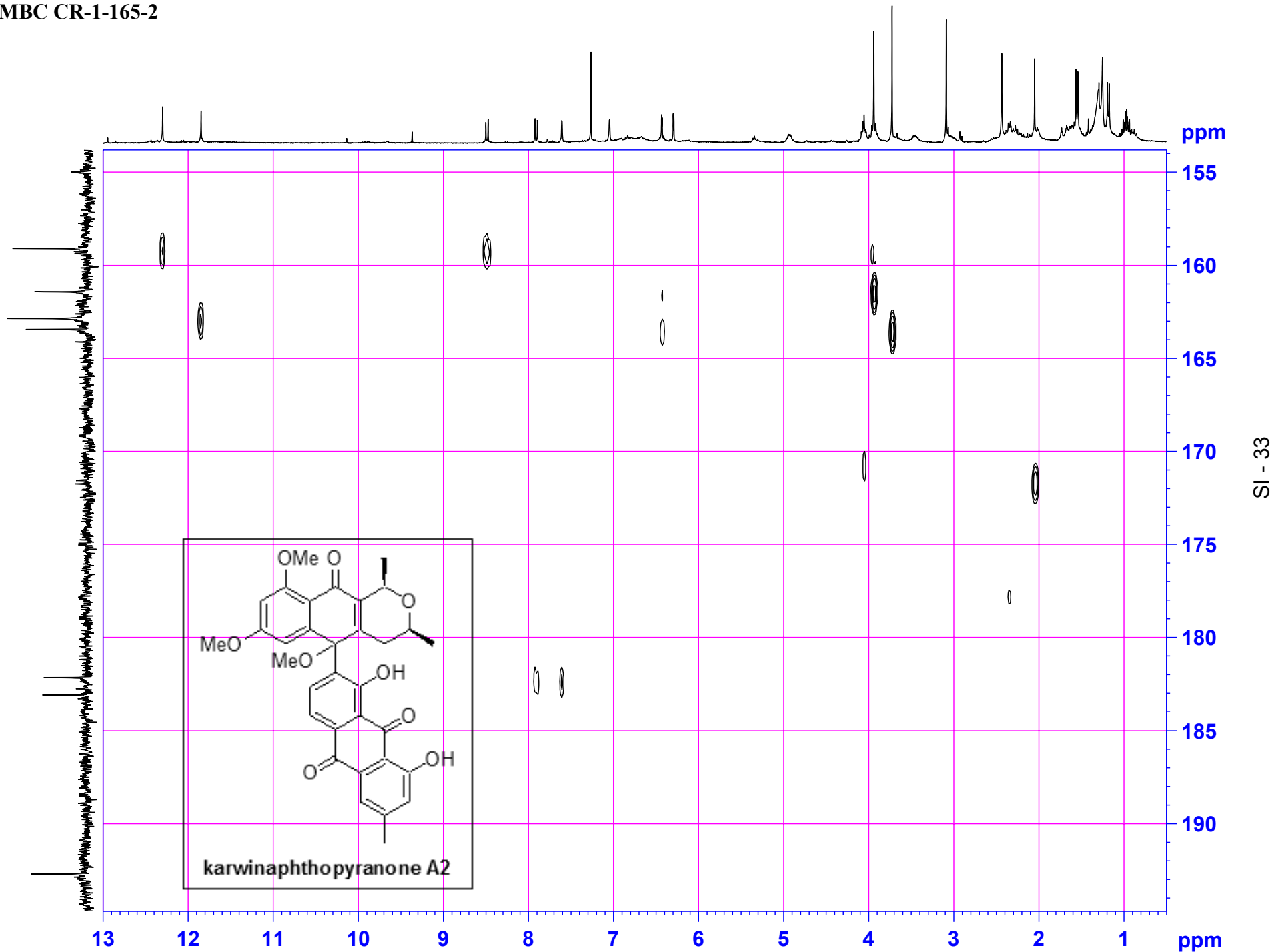
HMQC CR-1-165-2

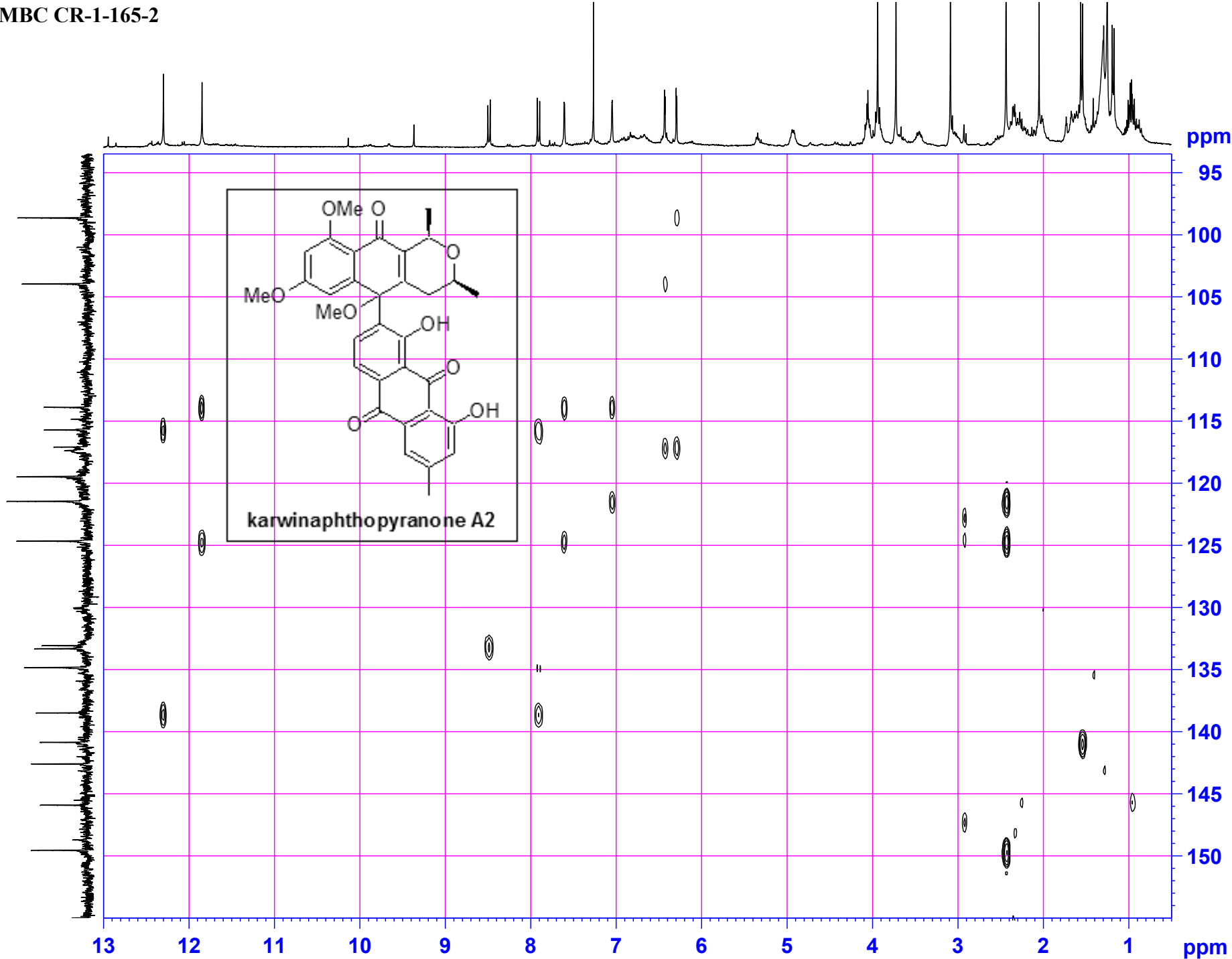


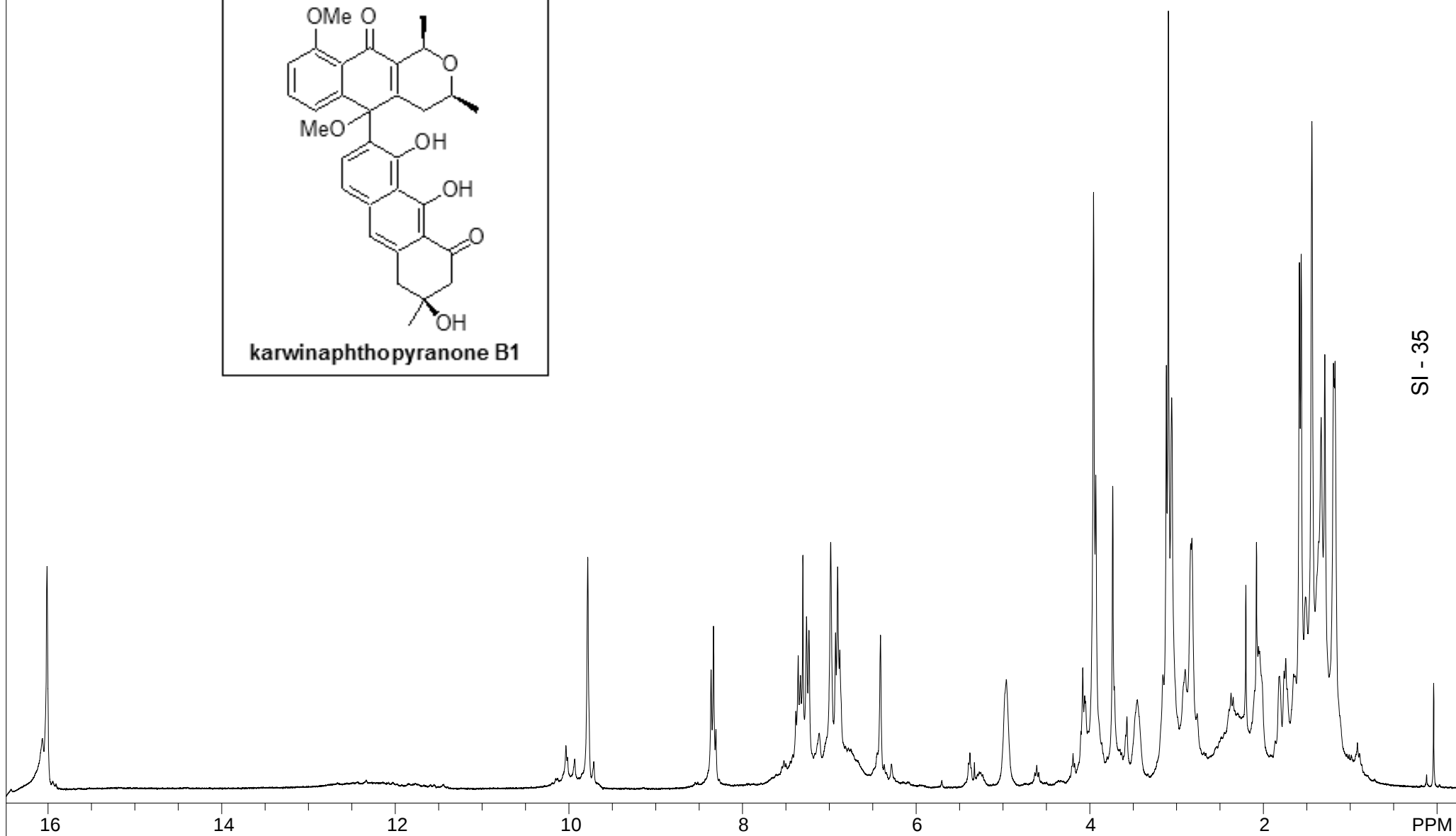
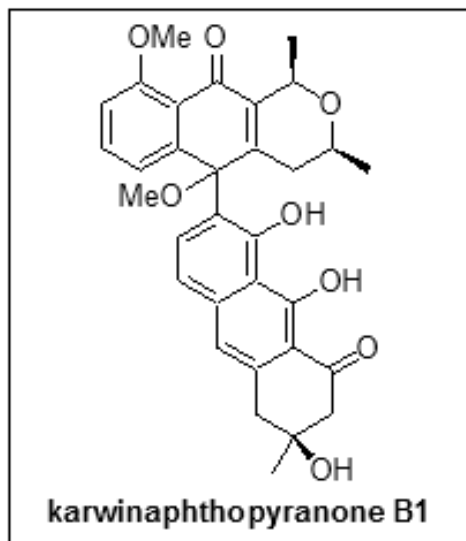
HMOC CR-1-165-2







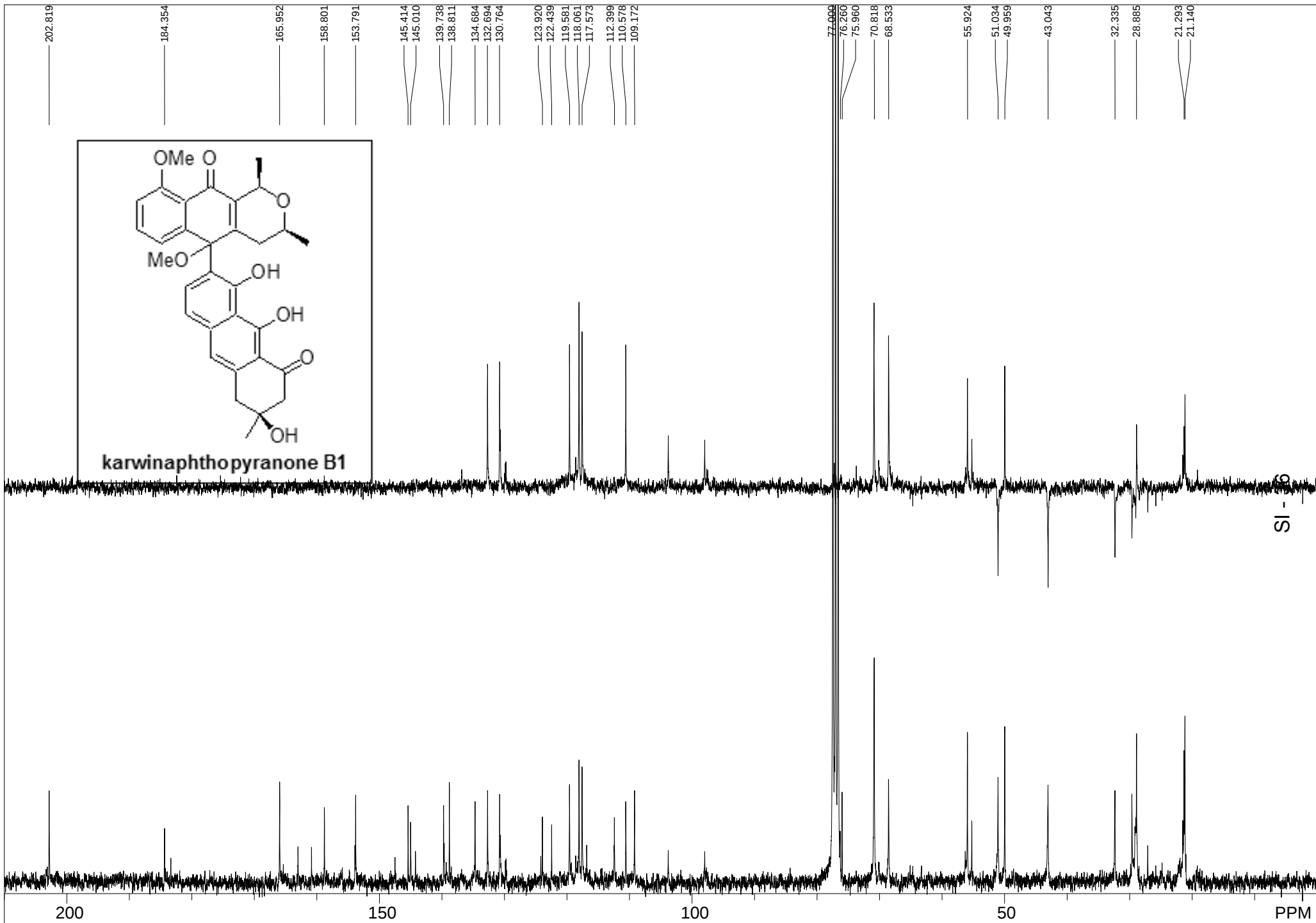




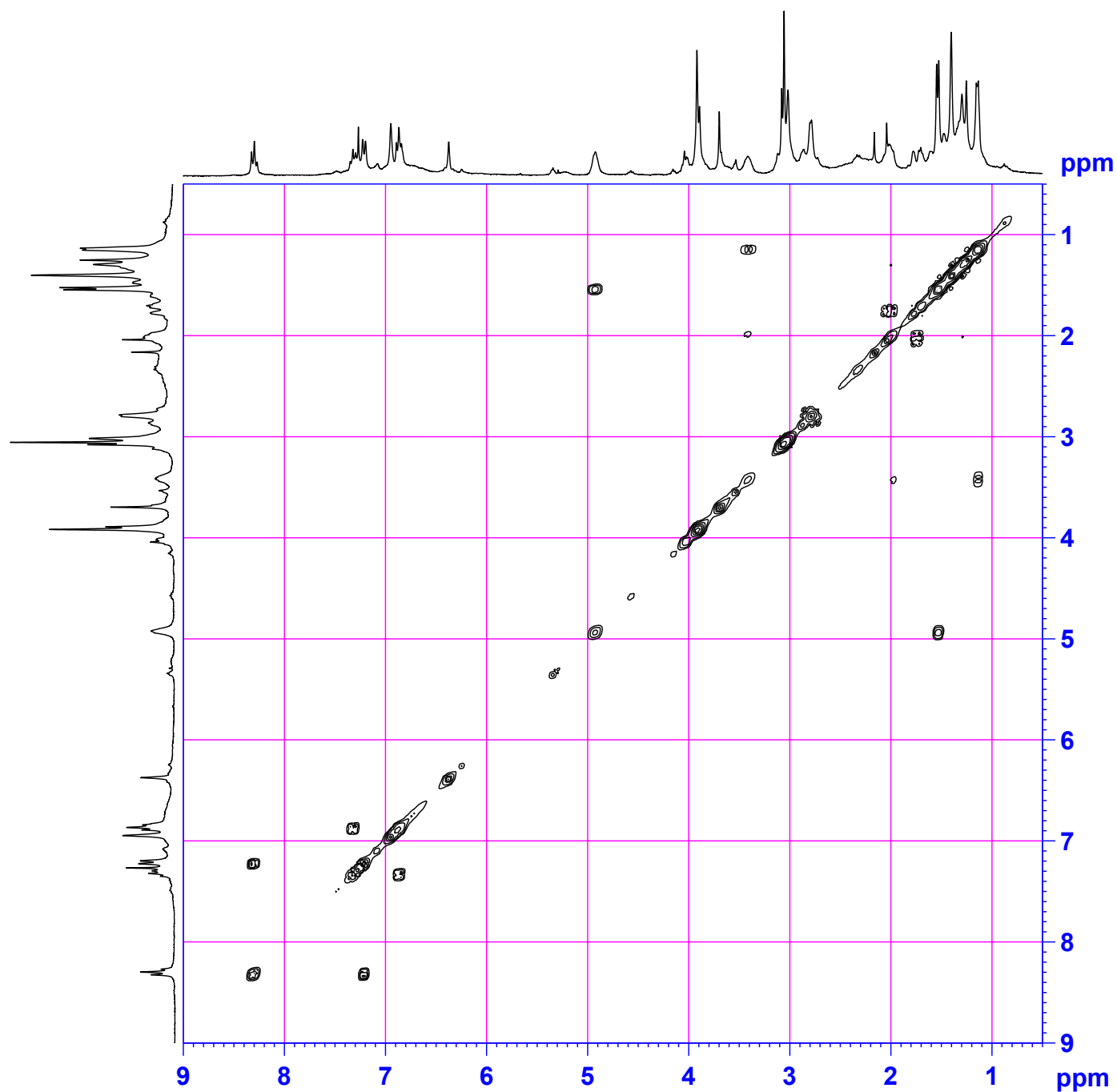
SI - 35

USER: root -- DATE: Thu Apr 25 21:38:00 2013

F1: 300.132	F2: 1.000	SW1: 6173	OF1: 1860.5	PTS1d: 32768
EX: zg30	PW: 7.5 usec	PD: 1.0 sec	NA: 16	LB: 0.2
Nuts - \$CR-1-153-E1a 1				



COSY CR-1-153-E1a



Current Data Parameters
NAME CR-1-153-E1a
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20130426
Time_ 17.30
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG cosygpgf
TD 4096
SOLVENT CDCl3
NS 4
DS 16
SWH 4496.403 Hz
FIDRES 1.097755 Hz
AQ 0.4555252 sec
RG 128
DW 111.200 usec
DE 6.00 usec
TE 300.0 K
d0 0.00000300 sec
d1 4.00000000 sec
d13 0.00000400 sec
d16 0.00010000 sec
IN0 0.00022240 sec
MCREST 0.00000000 sec
MCWRK 4.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P0 7.20 usec
P1 7.20 usec
PL1 -3.00 dB
SFO1 300.1315007 MHz

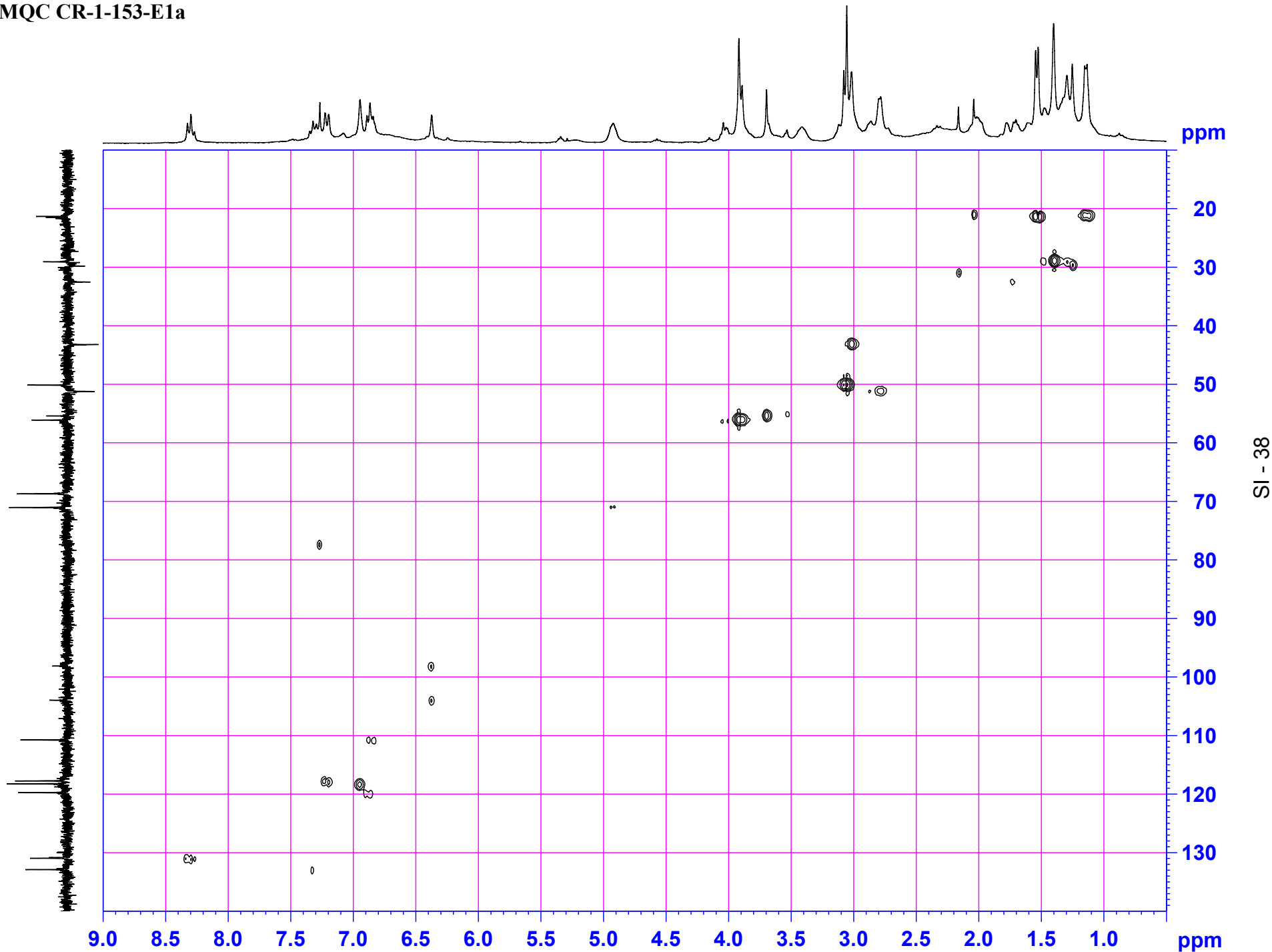
===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPNAM2 SINE.100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

F1 - Acquisition parameters
ND0 1
TD 256
SFO1 300.1315 MHz
FIDRES 17.564074 Hz
SW 14.981 ppm
FnMODE QF

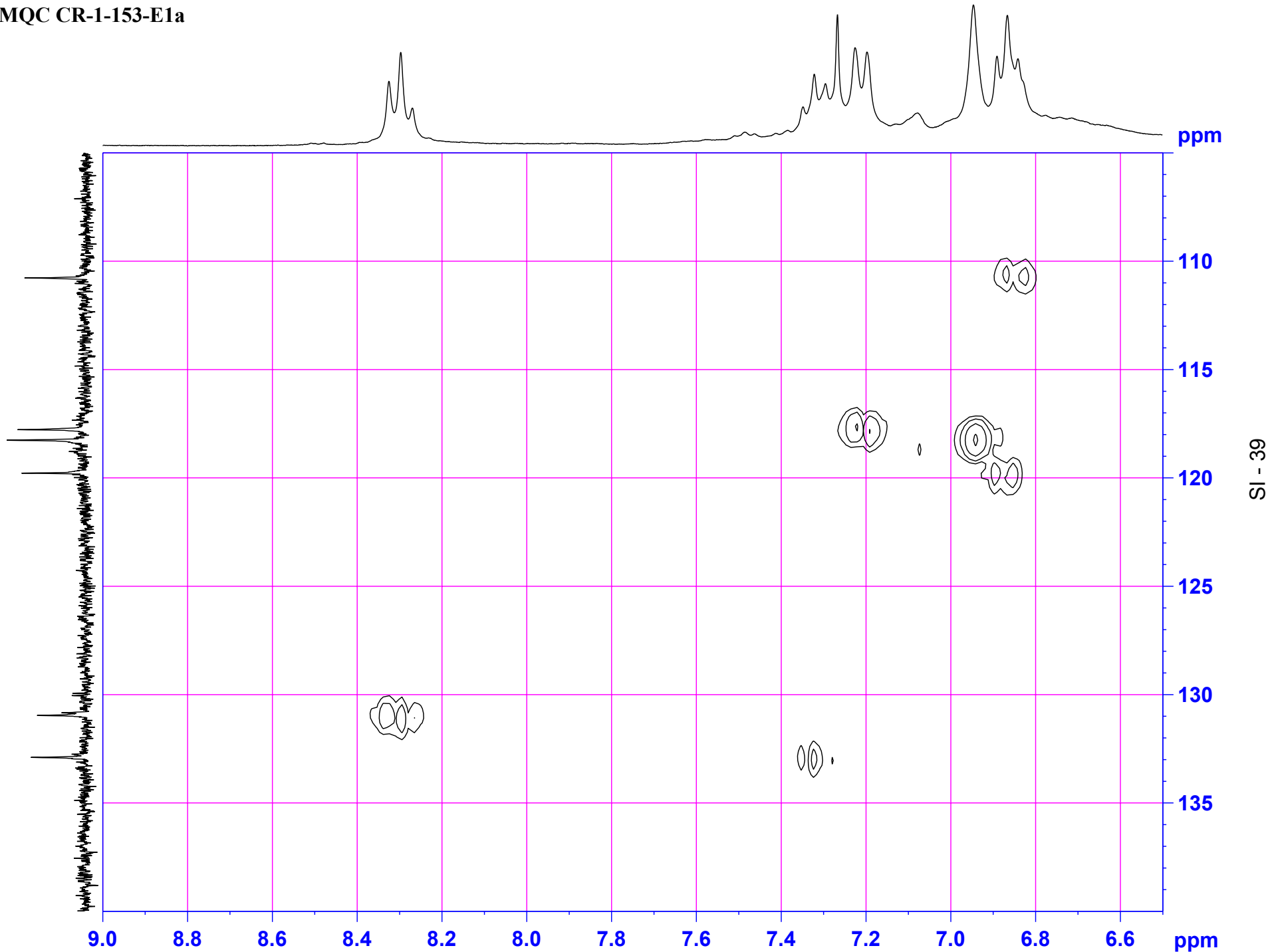
F2 - Processing parameters
SI 1024
SF 300.1300026 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1300026 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

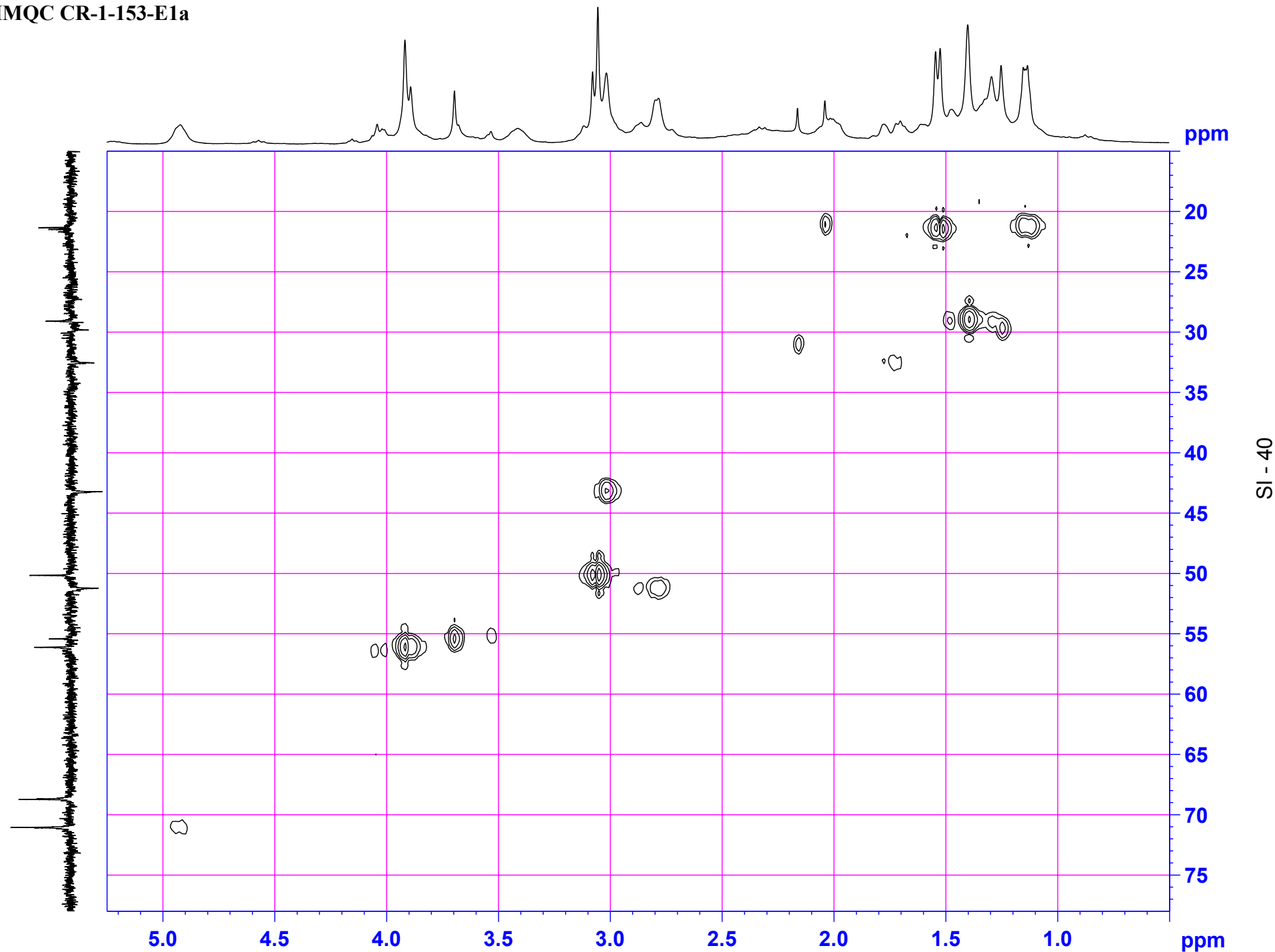
HMQC CR-1-153-E1a



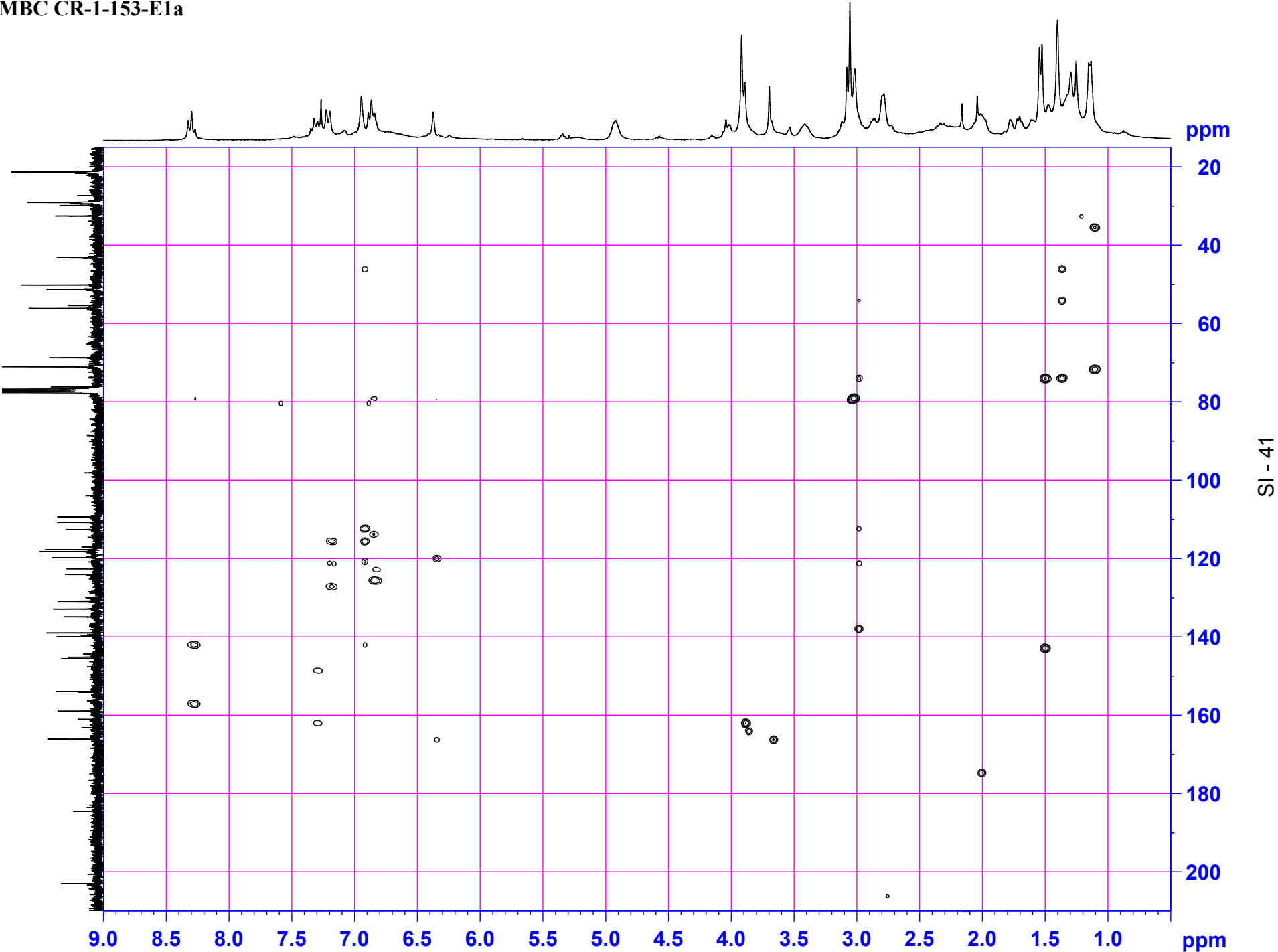
HMQC CR-1-153-E1a

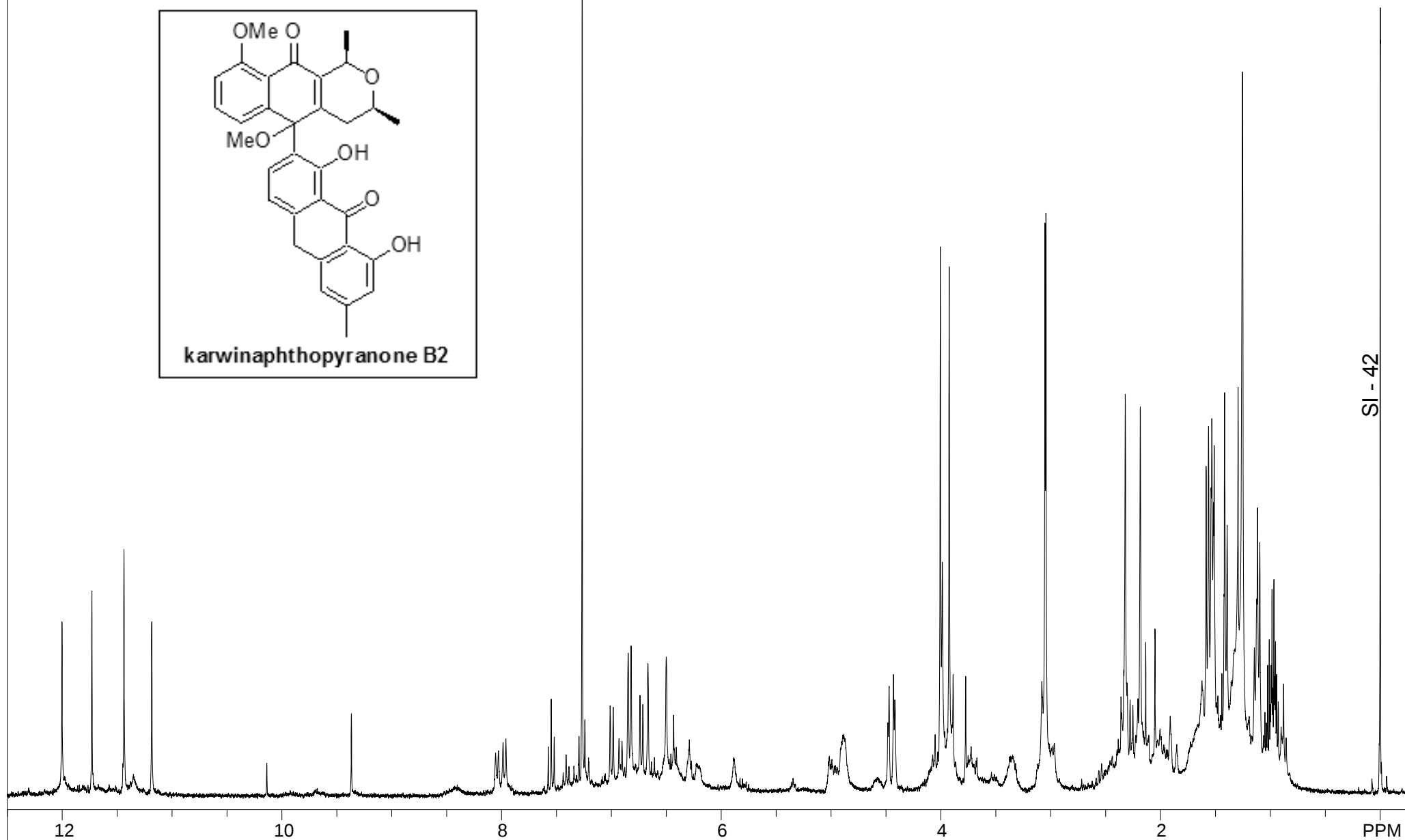
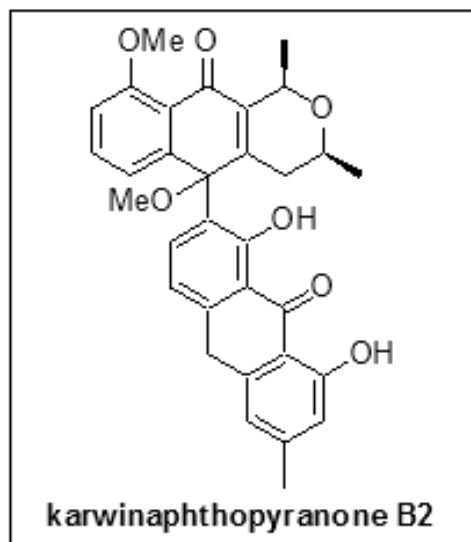


HMQC CR-1-153-E1a

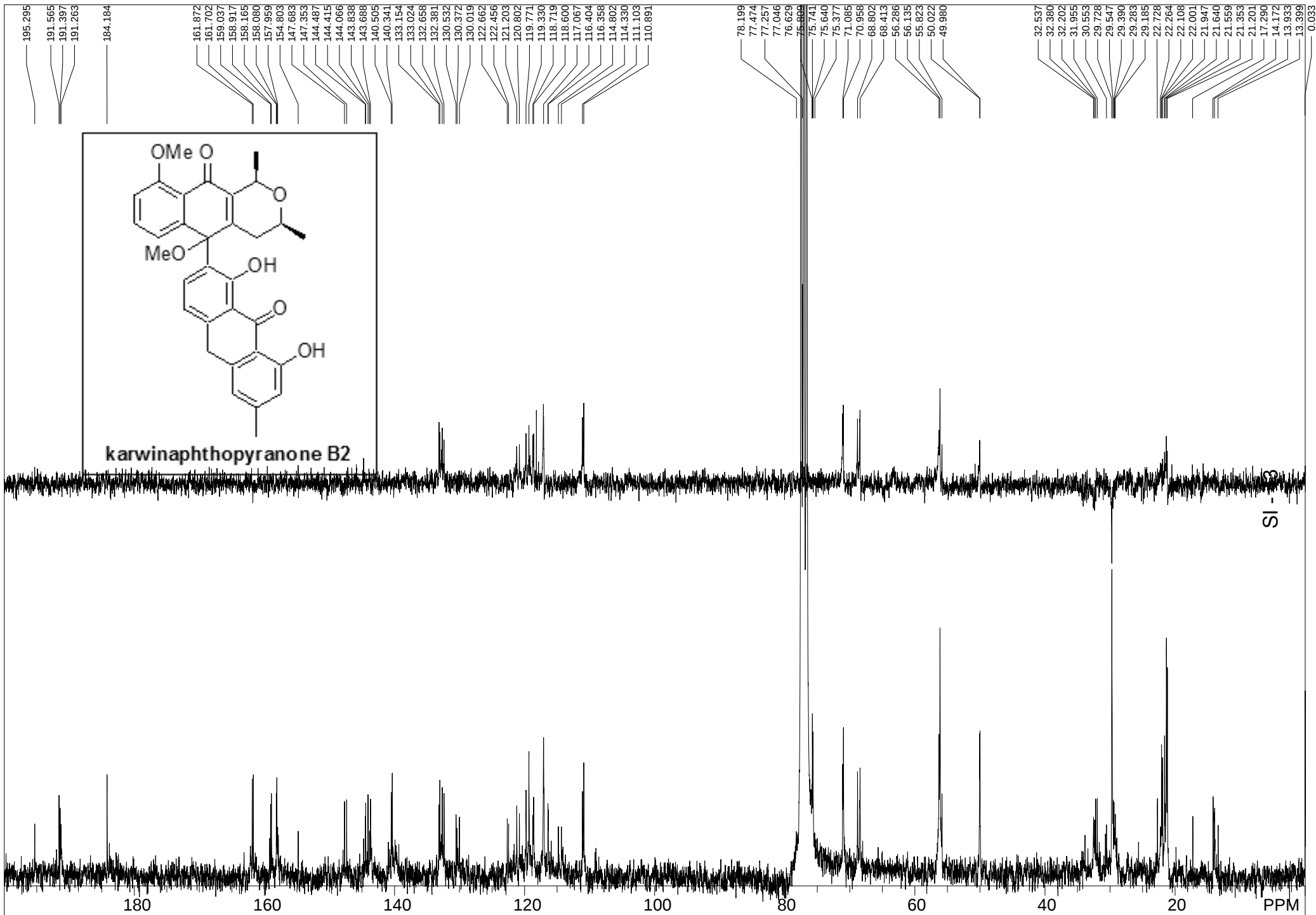


HMBC CR-1-153-E1a

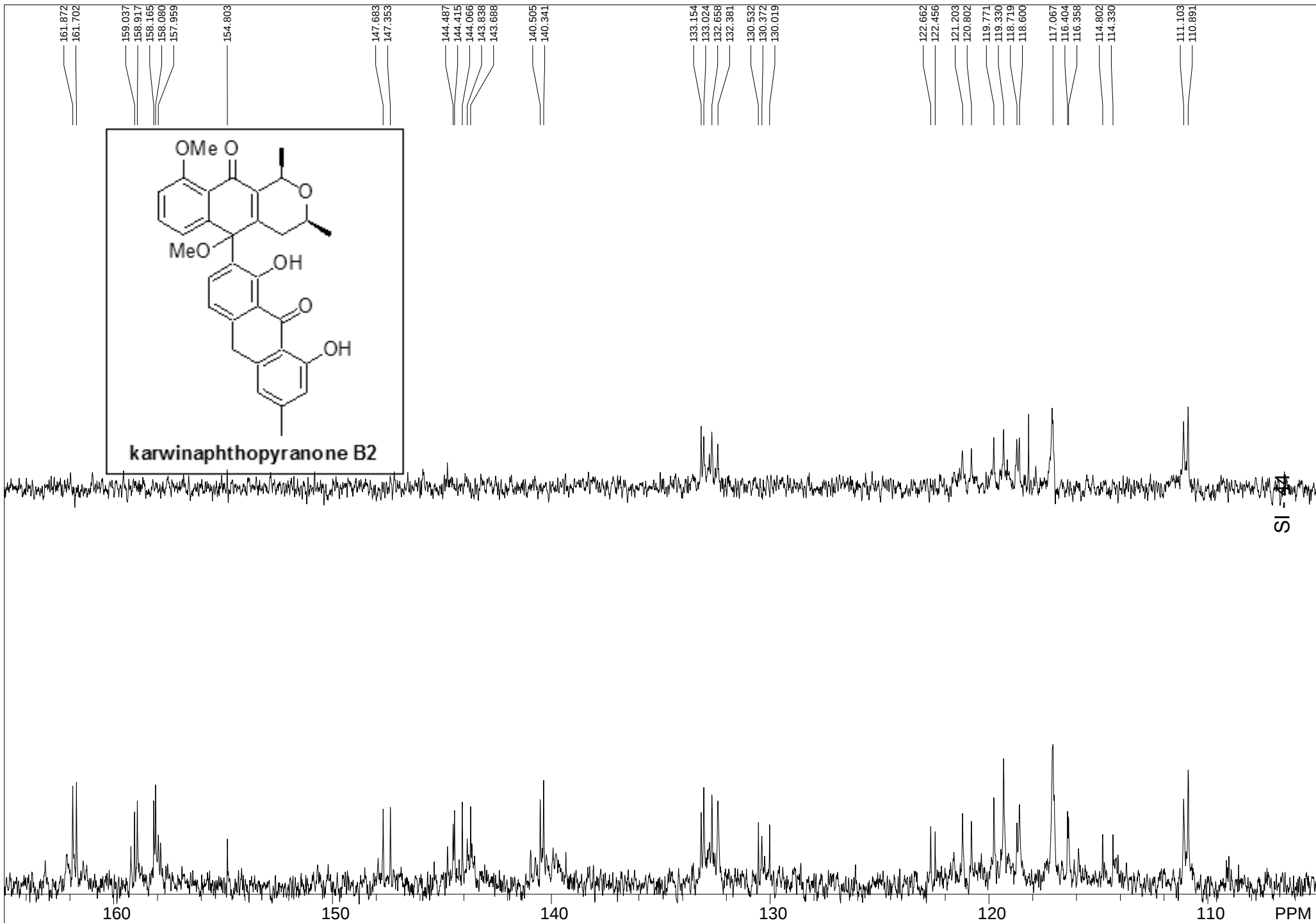




USER: root -- DATE: Wed Feb 13 22:13:58 2013							
F1: 300.132	F2: 1.000	SW1: 6173		OF1: 1849.1		PTS1d: 32768	
EX: zg30		PW: 7.5 usec	PD: 1.0 sec	NA: 16	LB: 0.2	Nuts - \$CR-1-165-4A_1	

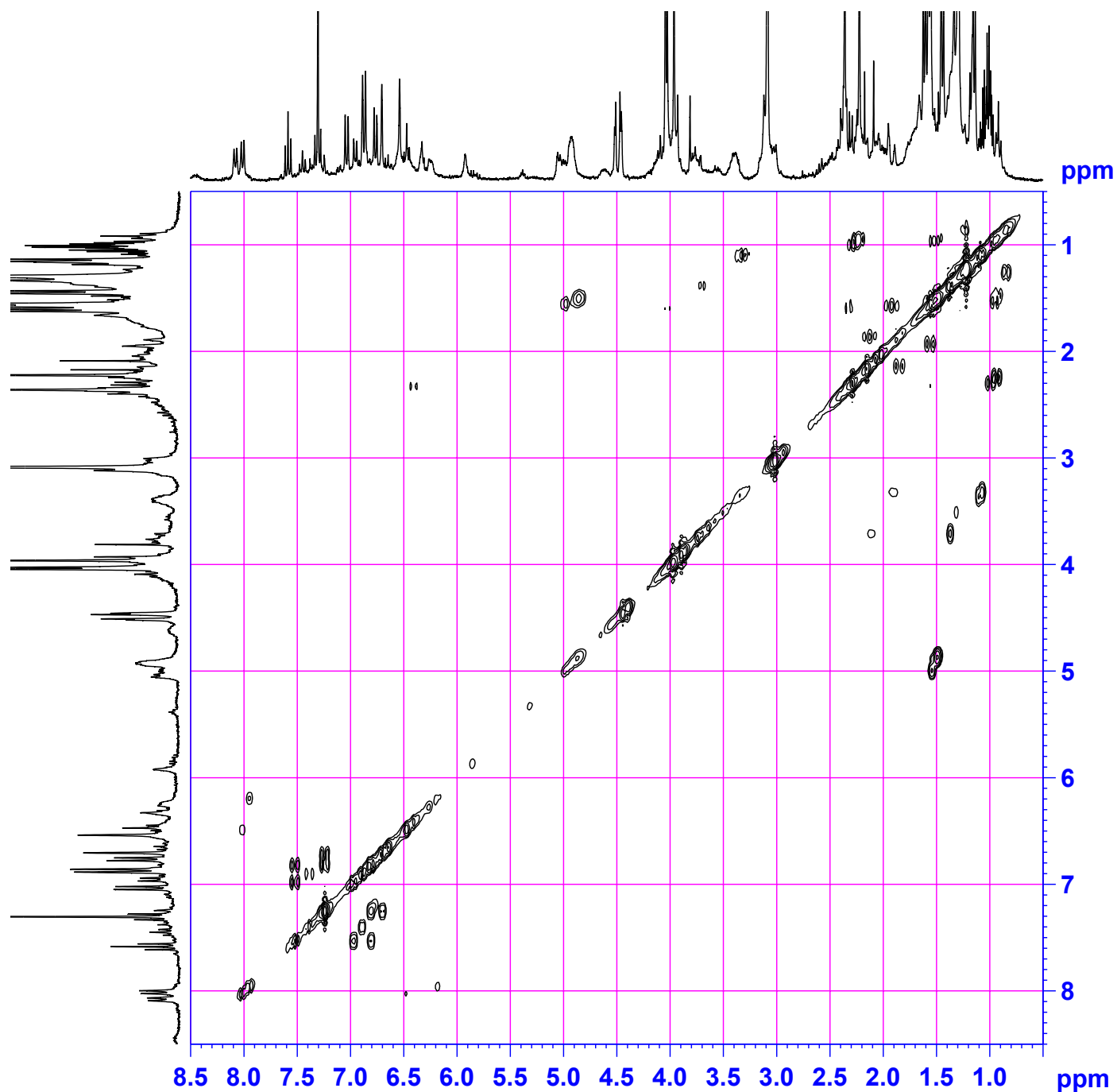


USER: root -- DATE: Fri Apr 19 21:30:14 2013							
F1: 75.475	F2: 1.000	SW1: 18116		OF1: 7548.0		PTS1d: 32768	
EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 28000	LB: 1.8	Nuts - \$SCR-1-165-4B 2	



USER: root -- DATE: Fri Apr 19 21:30:14 2013							
F1: 75.475	F2: 1.000	SW1: 18116		OF1: 7548.0		PTS1d: 32768	
EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 28000	LB: 1.8	Nuts - \$CR-1-165-4B_2	

COSY CR-1-165-4



Current Data Parameters
 NAME CR-1-165-4d
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130425
 Time_ 19.03
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 8
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 D1 4.00000000 sec
 d13 0.00000400 sec
 D16 0.00010000 sec
 IN0 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

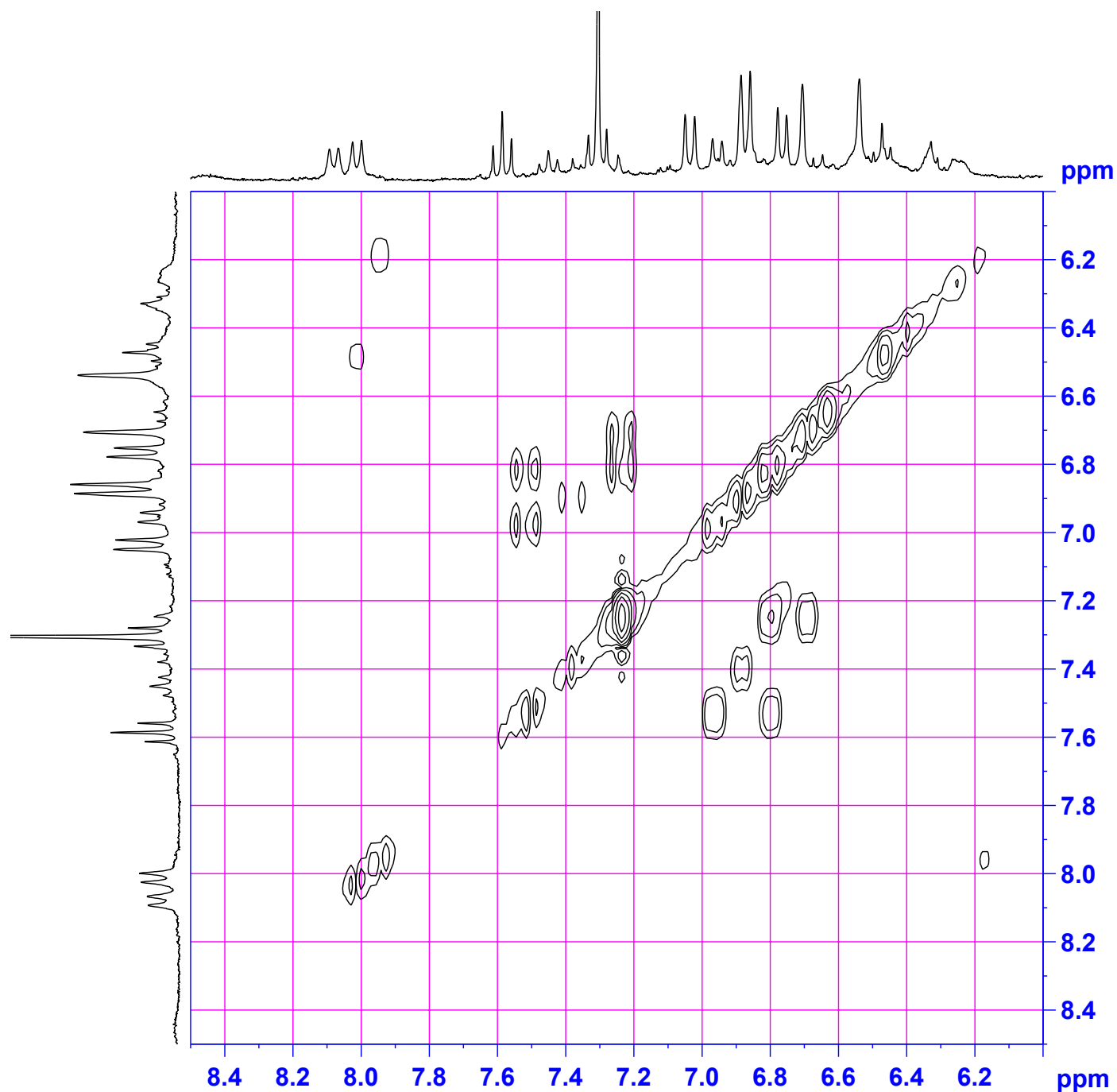
===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPX1 0.00 %
 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

COSY CR-1-165-4



Current Data Parameters
 NAME CR-1-165-4d
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130425
 Time_ 19.03
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 8
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 INO 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

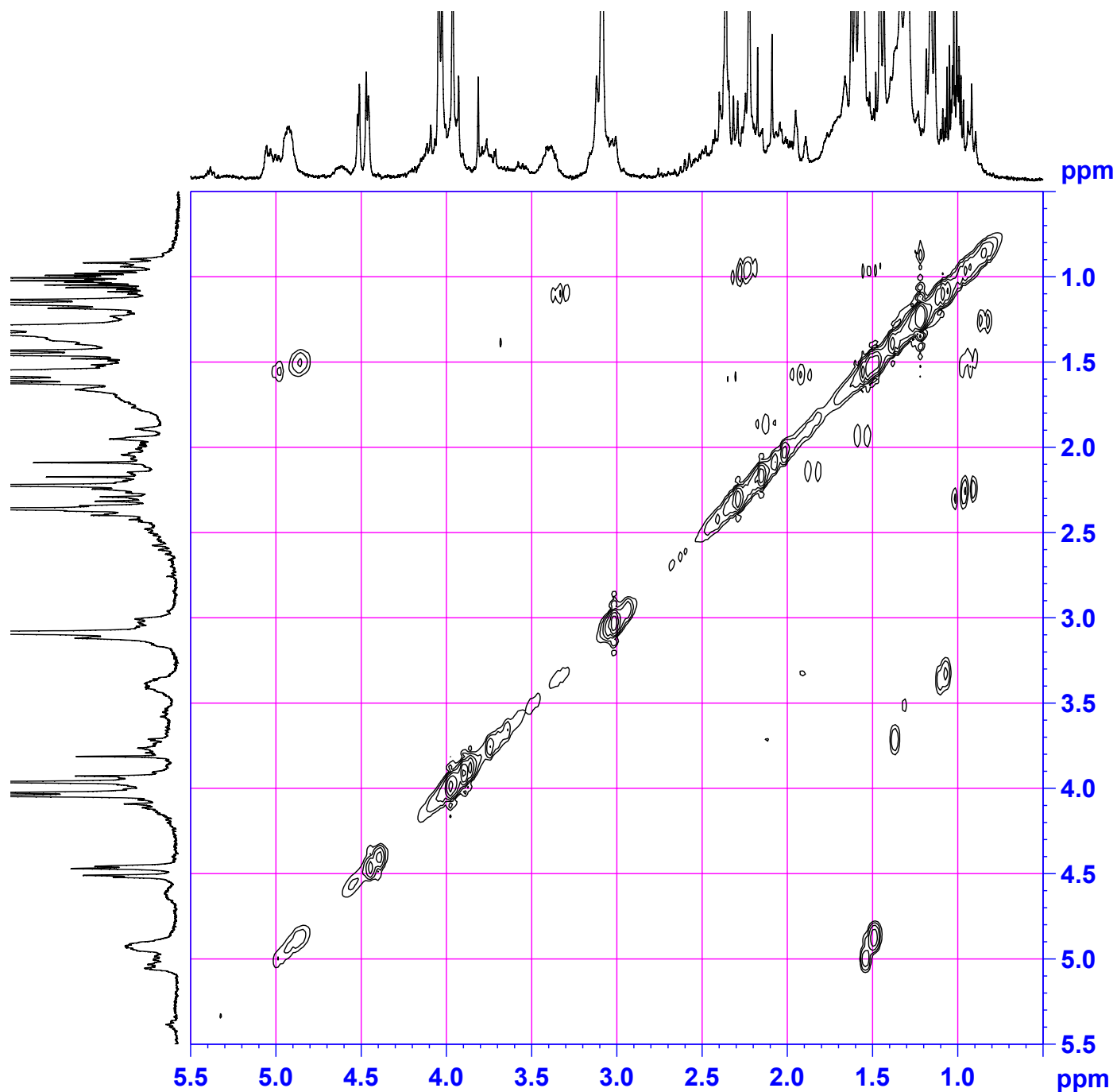
===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPX1 0.00 %
 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

COSY CR-1-165-4



Current Data Parameters
 NAME CR-1-165-4d
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130425
 Time_ 19.03
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG cosygpgf
 TD 4096
 SOLVENT CDCl3
 NS 8
 DS 16
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4555252 sec
 RG 128
 DW 111.200 usec
 DE 6.00 usec
 TE 300.0 K
 d0 0.00000300 sec
 d1 4.00000000 sec
 d13 0.00000400 sec
 d16 0.00010000 sec
 INO 0.00022240 sec
 MCREST 0.00000000 sec
 MCWRK 4.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.20 usec
 P1 7.20 usec
 PL1 -3.00 dB
 SFO1 300.1315007 MHz

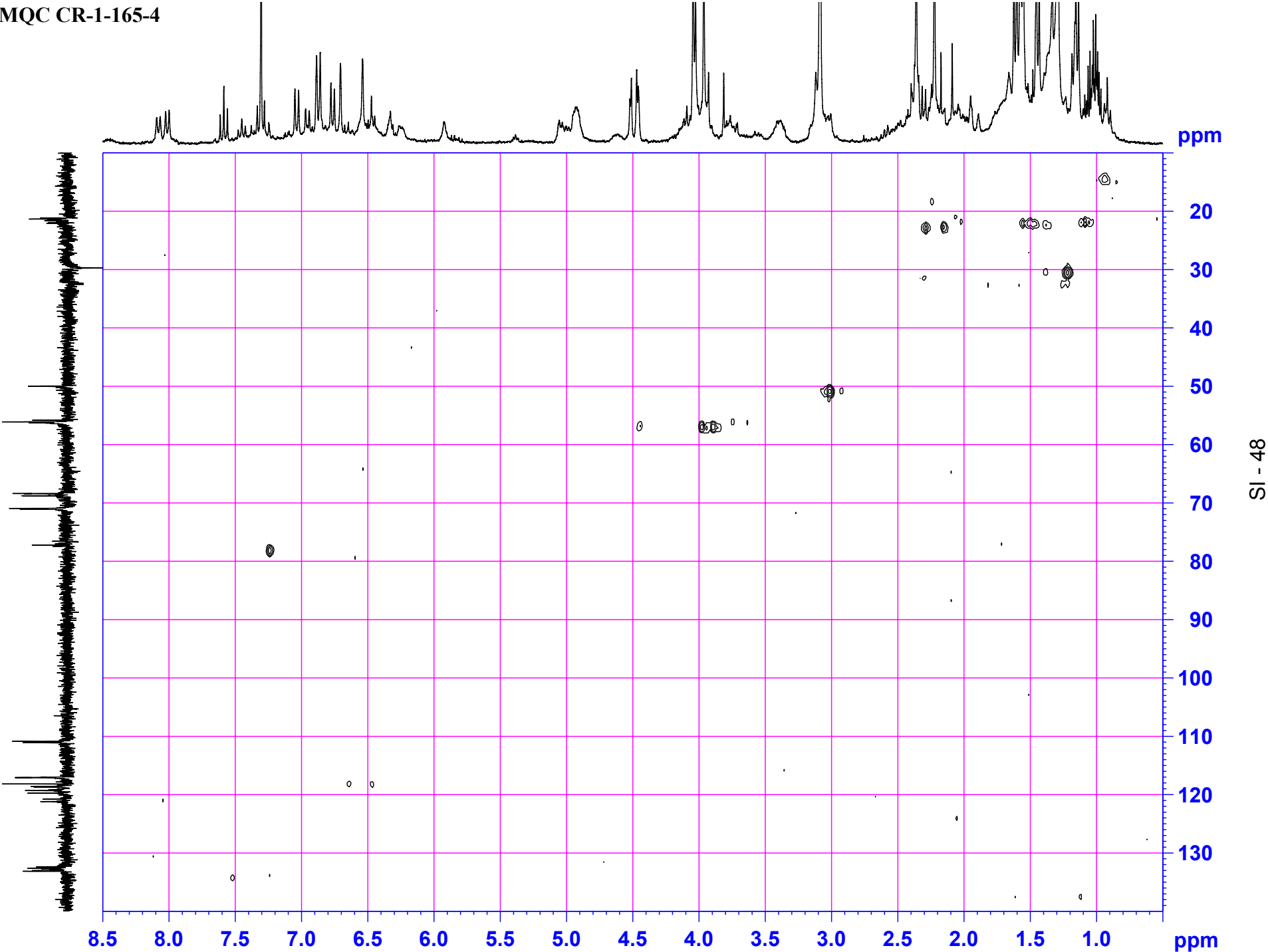
===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPX1 0.00 %
 GPX2 0.00 %
 GPY1 0.00 %
 GPY2 0.00 %
 GPZ1 10.00 %
 GPZ2 10.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 ND0 1
 TD 256
 SFO1 300.1315 MHz
 FIDRES 17.564074 Hz
 SW 14.981 ppm
 FMODE QF

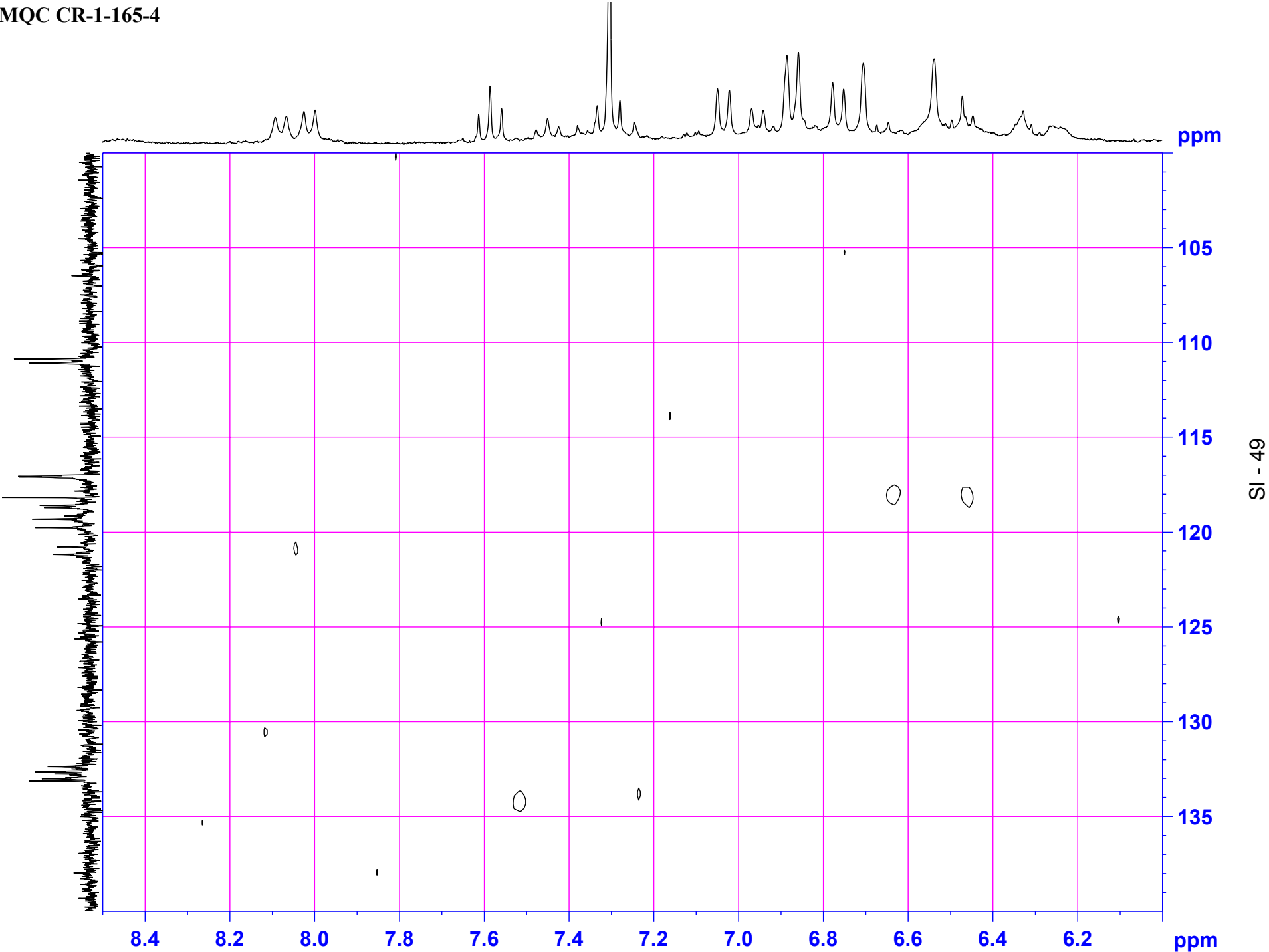
F2 - Processing parameters
 SI 1024
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300105 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0

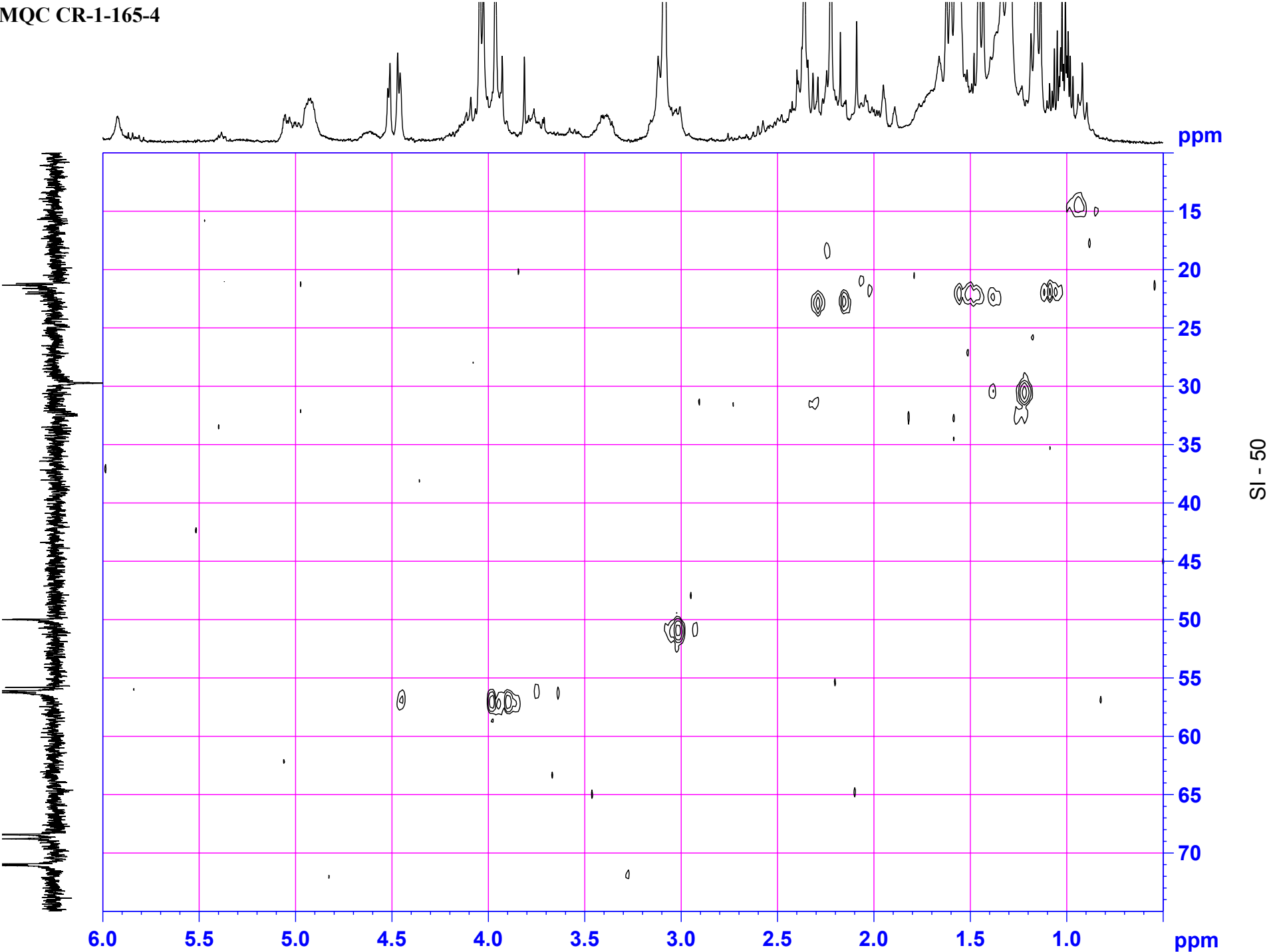
HMQC CR-1-165-4



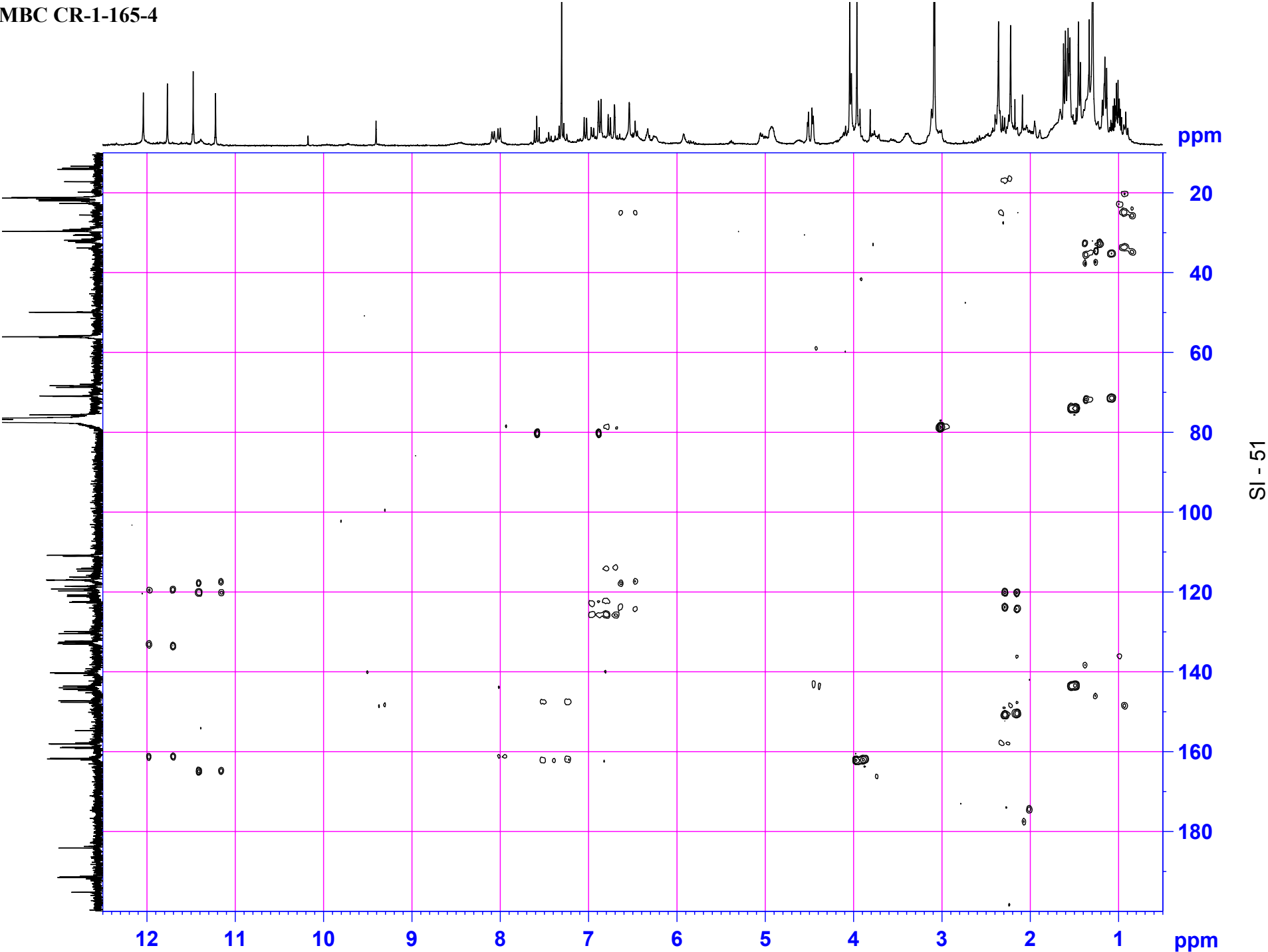
HMQC CR-1-165-4



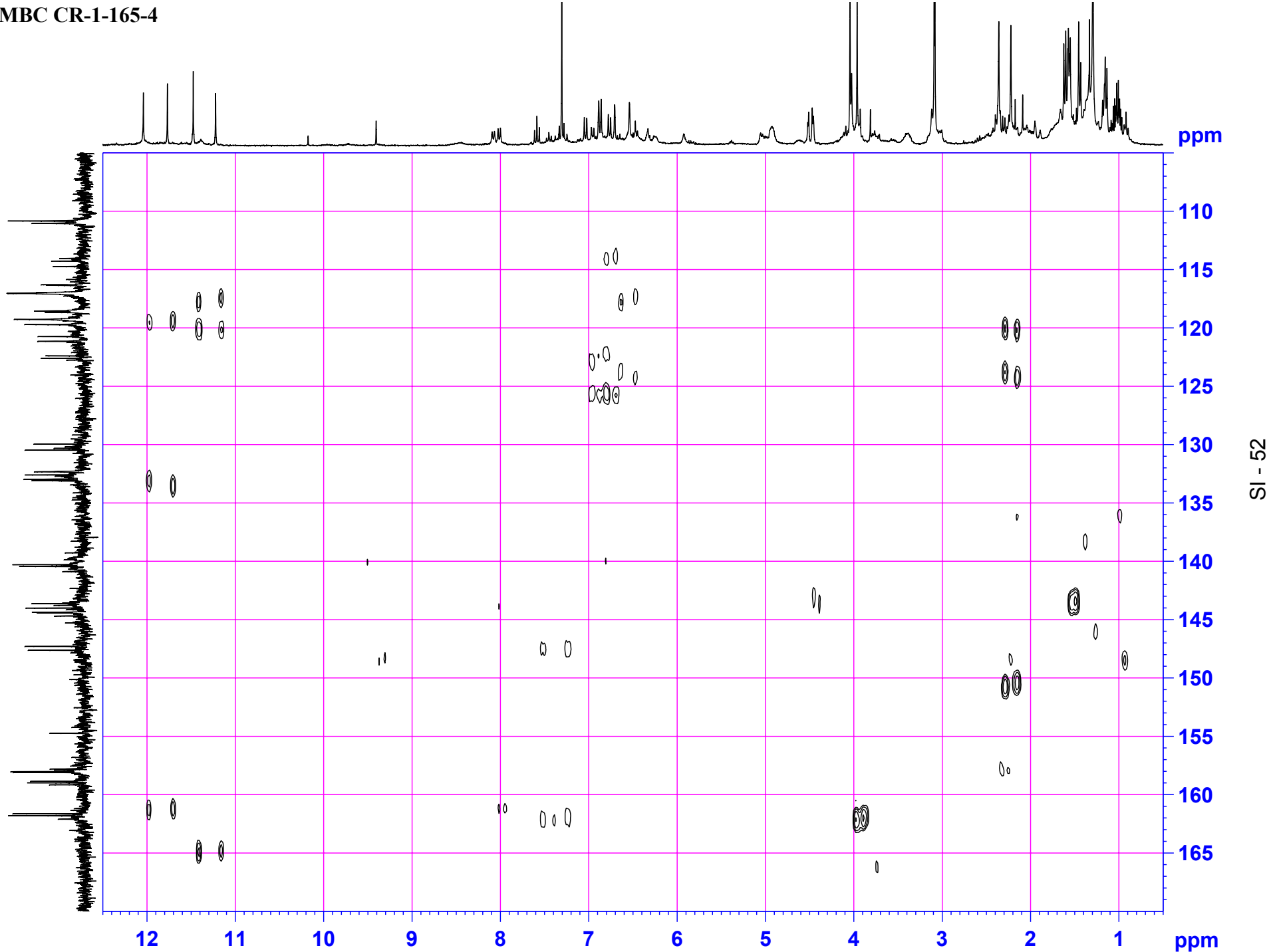
HMQC CR-1-165-4



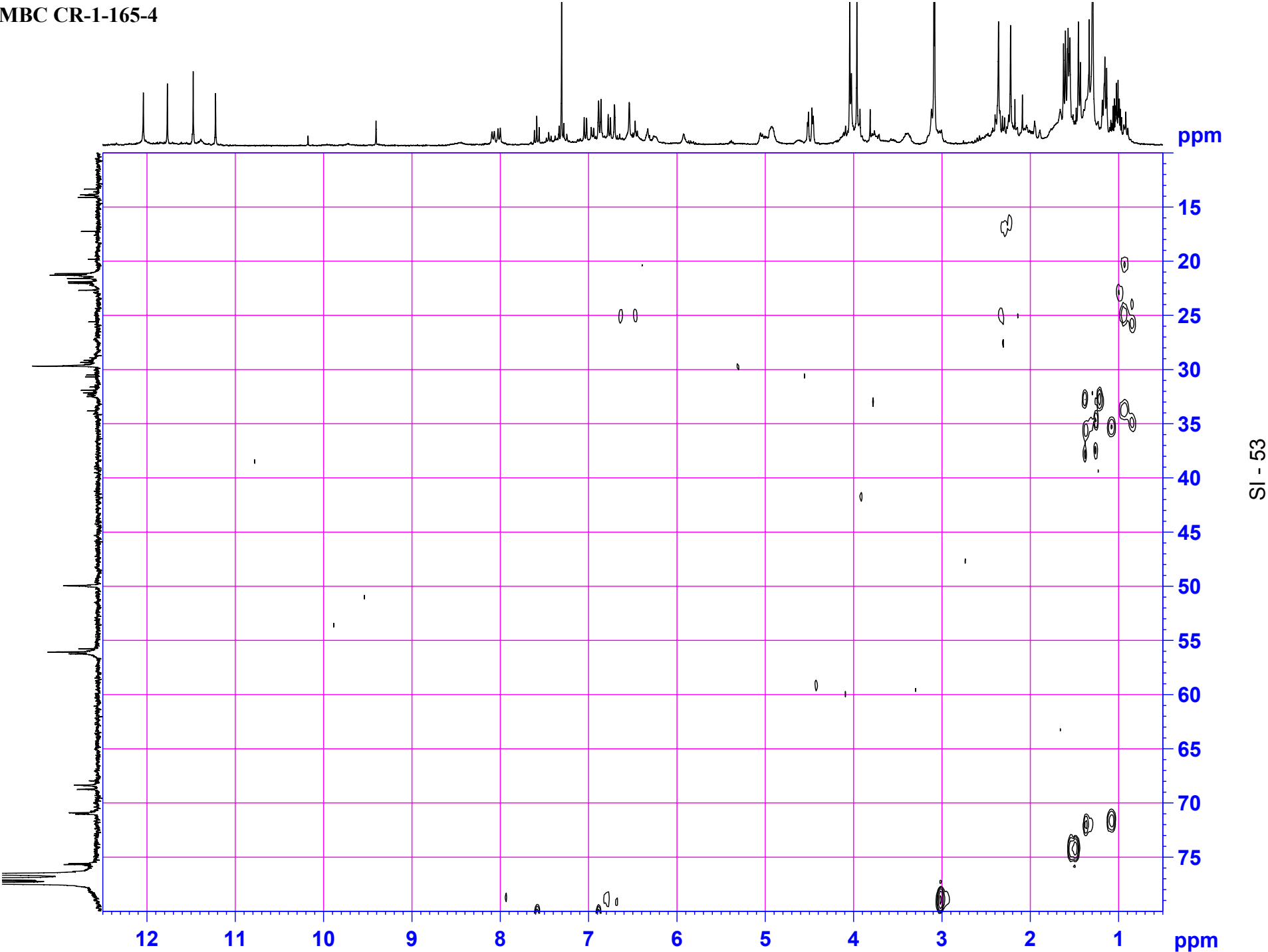
HMBC CR-1-165-4

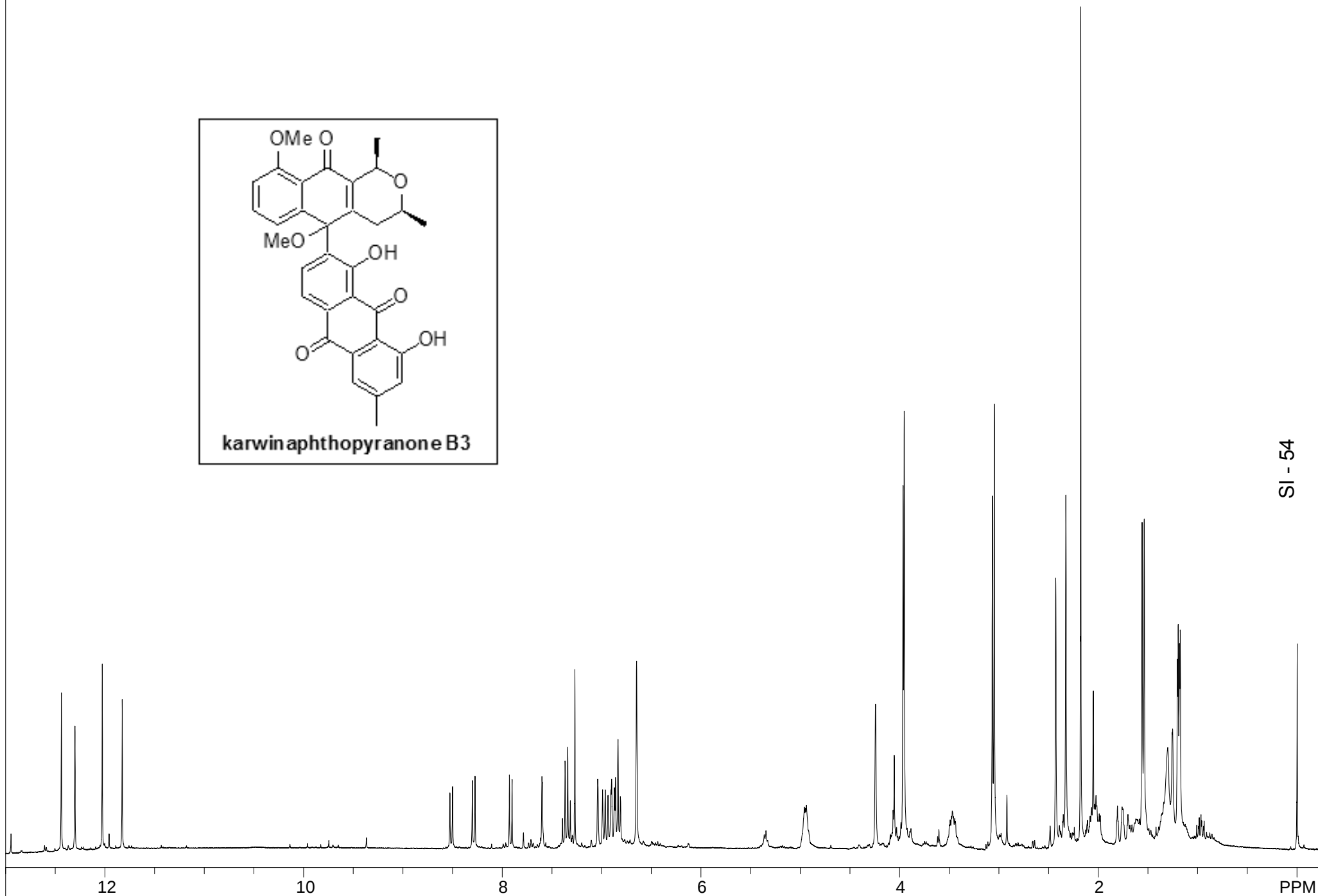
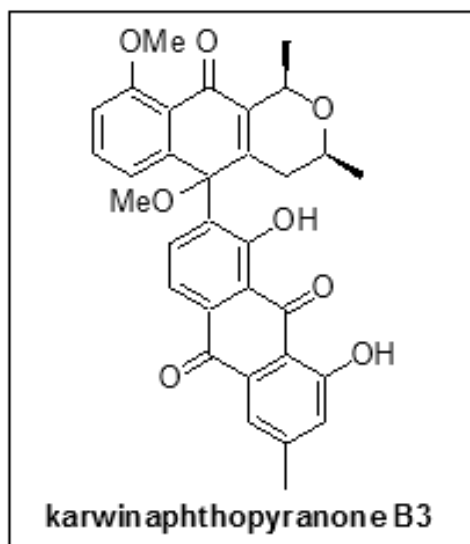


HMBC CR-1-165-4



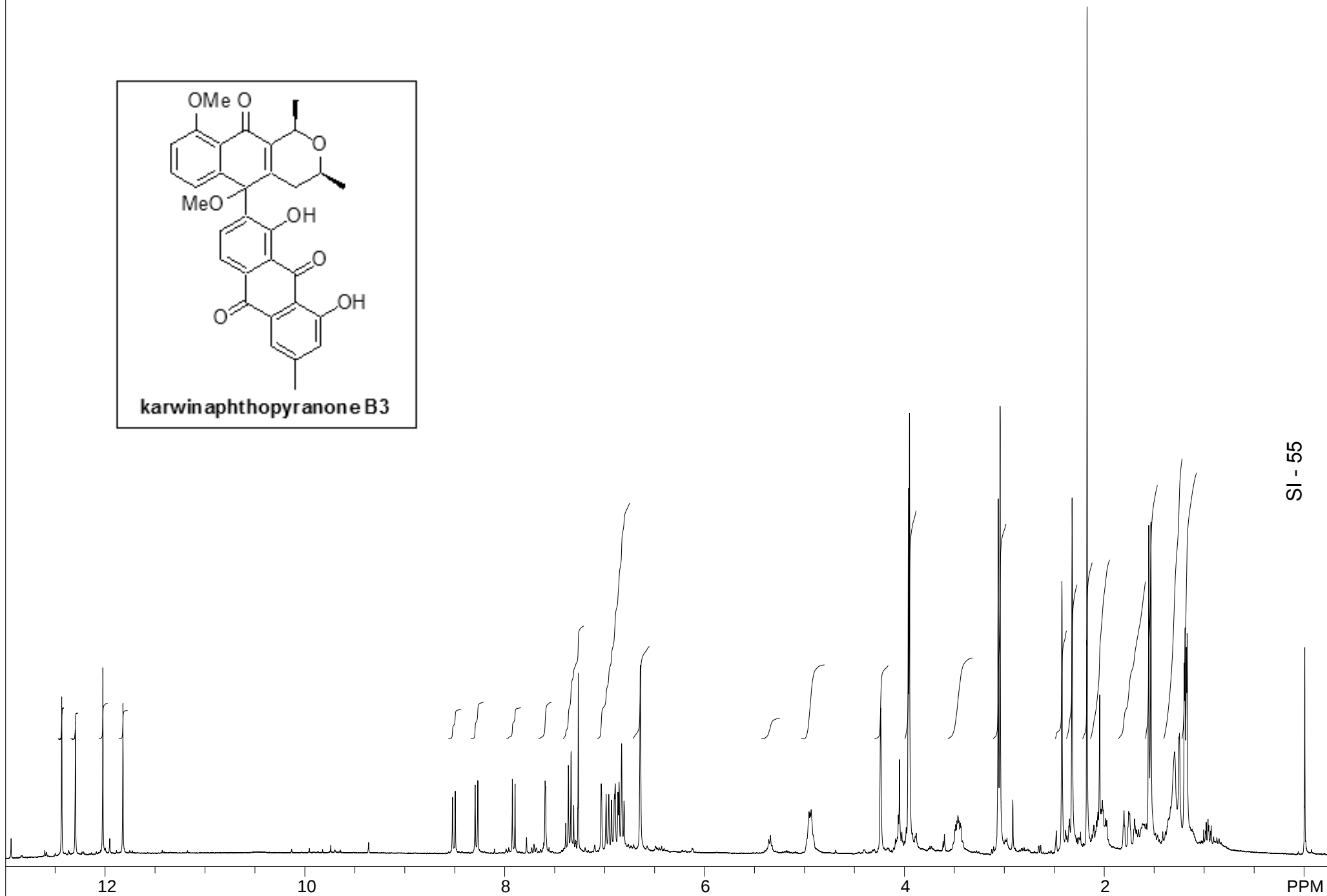
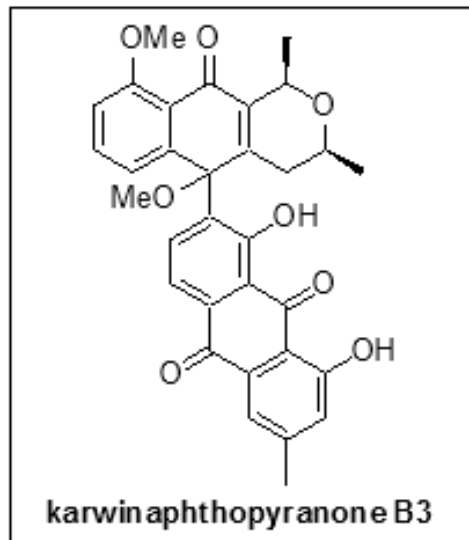
HMBC CR-1-165-4





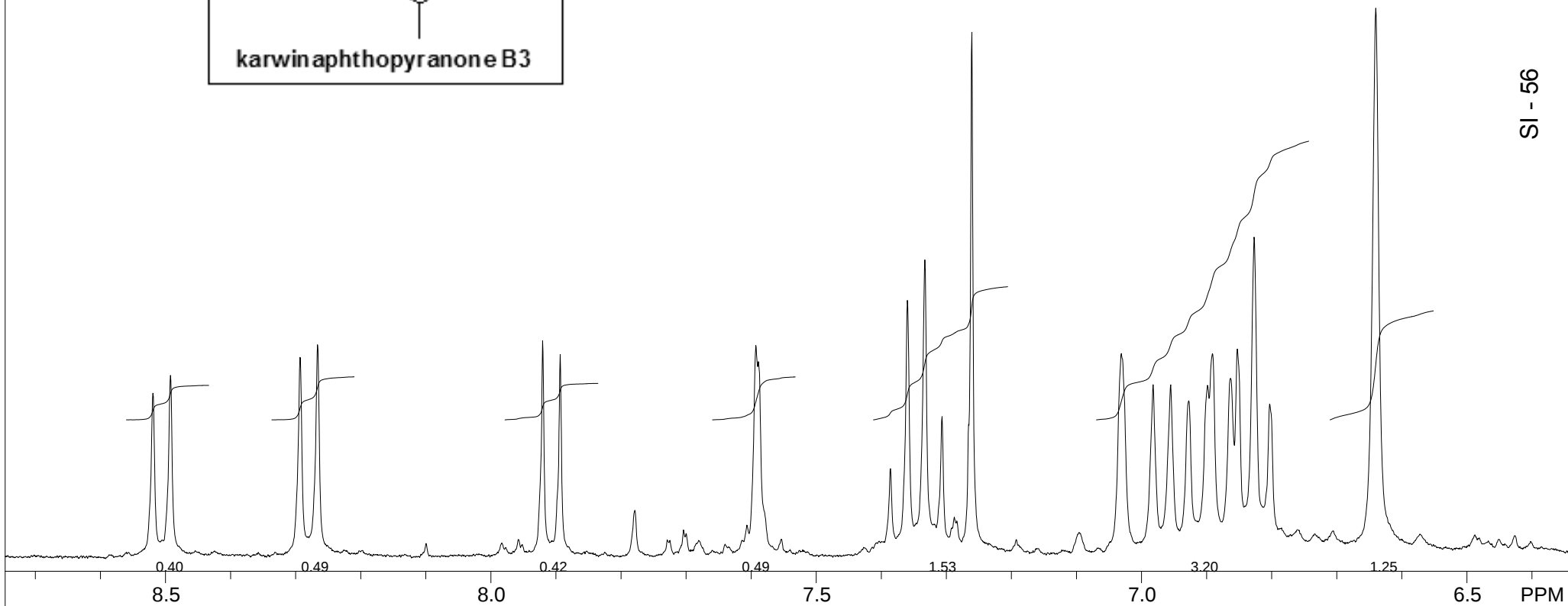
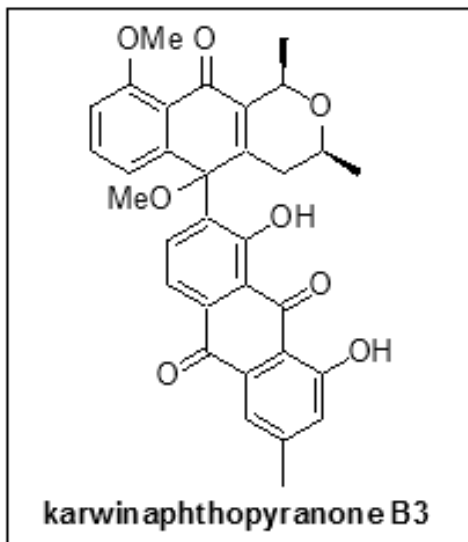
SI - 54

F1: 300.132		F2: 1.000		SW1: 6173		OF1: 1849.9		PTS1d: 32768		USER: root -- DATE: Fri Jan 18 19:54:04 2013	
EX: zg30		PW: 7.5 usec		PD: 1.0 sec		NA: 16		LB: 0.2		Nuts - \$SCR-1-156-4DiskC 1	

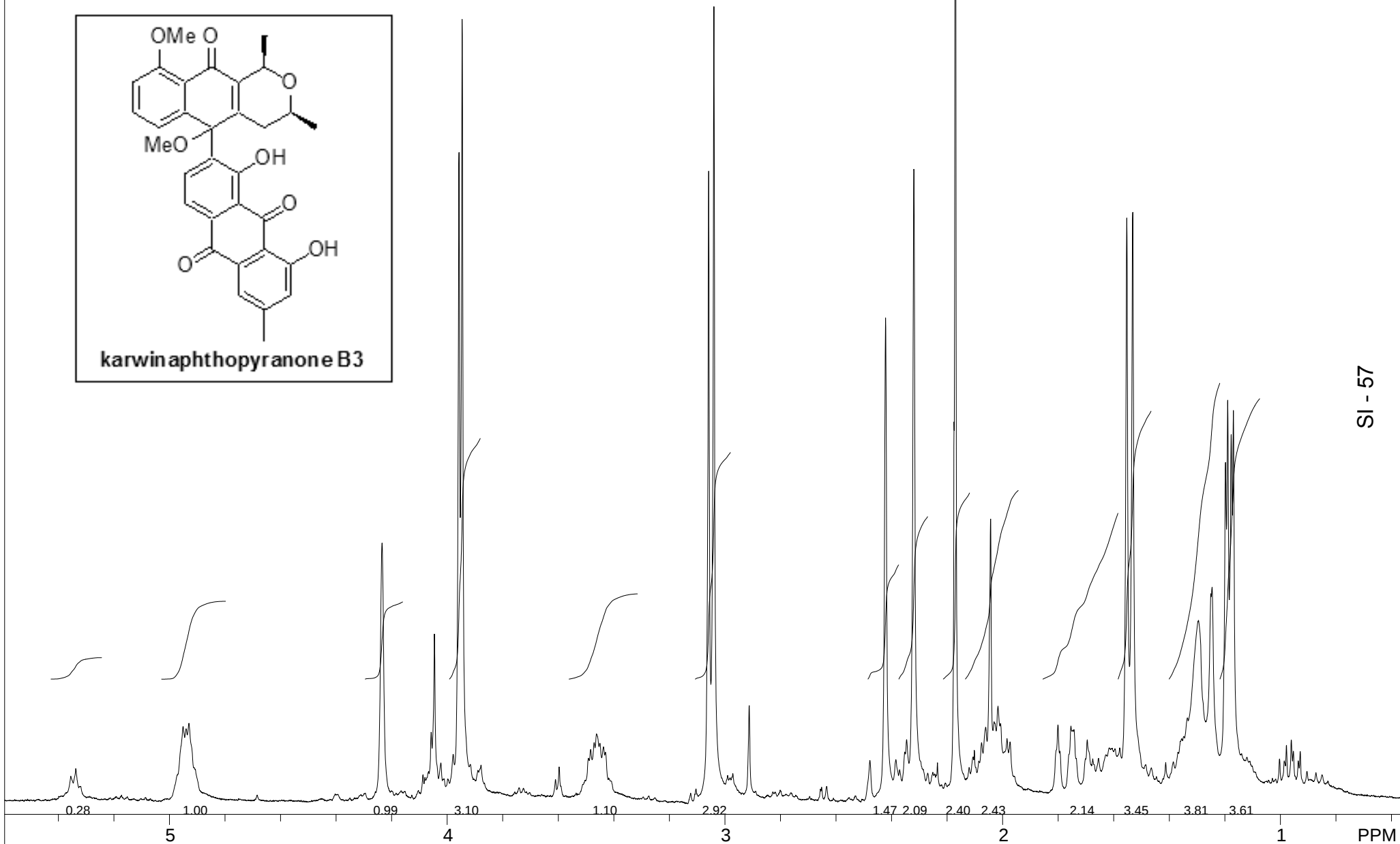
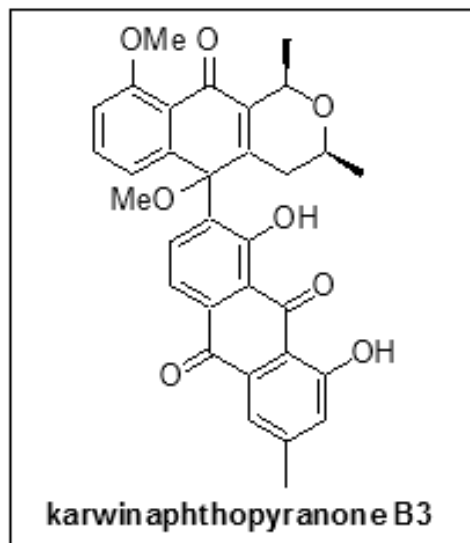


SI - 55

F1: 300.132		F2: 1.000		SW1: 6173		OF1: 1848.5		PTS1d: 32768		USER: root -- DATE: Fri Jan 18 19:54:04 2013	
EX: zg30		PW: 7.5 usec		PD: 1.0 sec		NA: 16		LB: 0.2		Nuts - \$SCR-1-156-4DiskC 1	

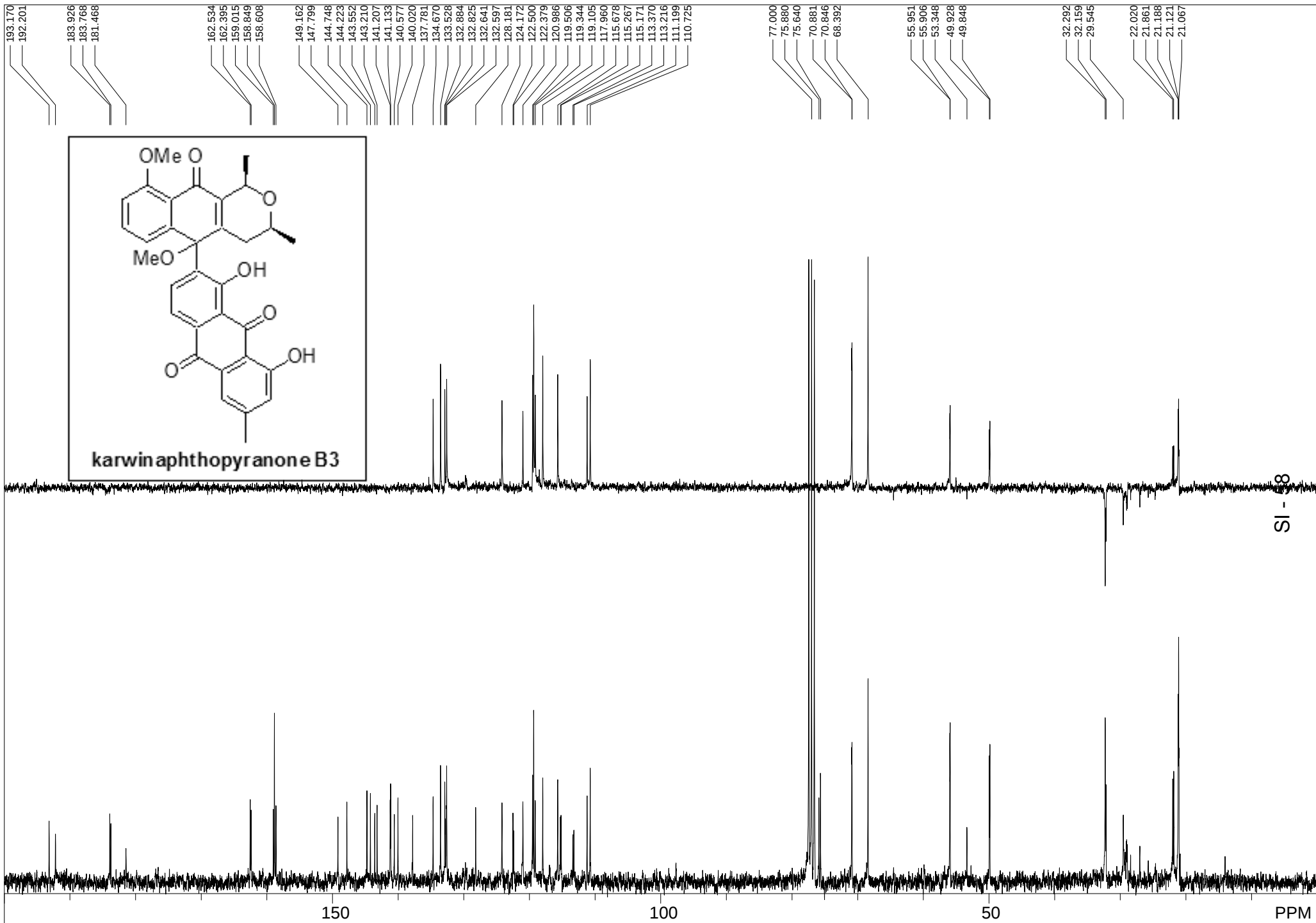


F1: 300.132	F2: 1.000	SW1: 6173	OF1: 1847.7	PTS1d: 32768	USER: root -- DATE: Fri Jan 18 19:54:04 2013
EX: zg30	PW: 7.5 usec	PD: 1.0 sec	NA: 16	LB: 0.2	Nuts - \$SCR-1-156-4DiskC 1

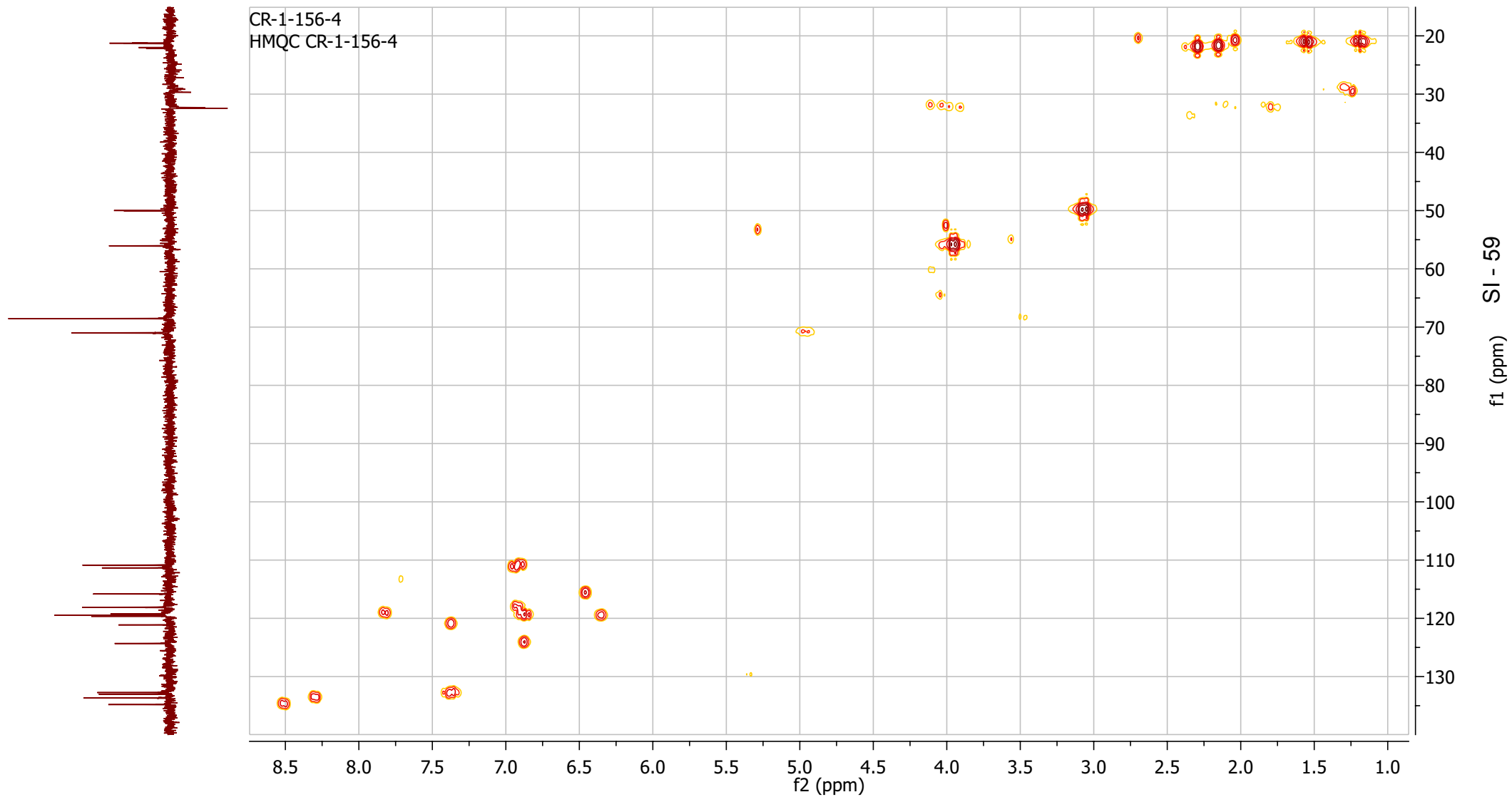


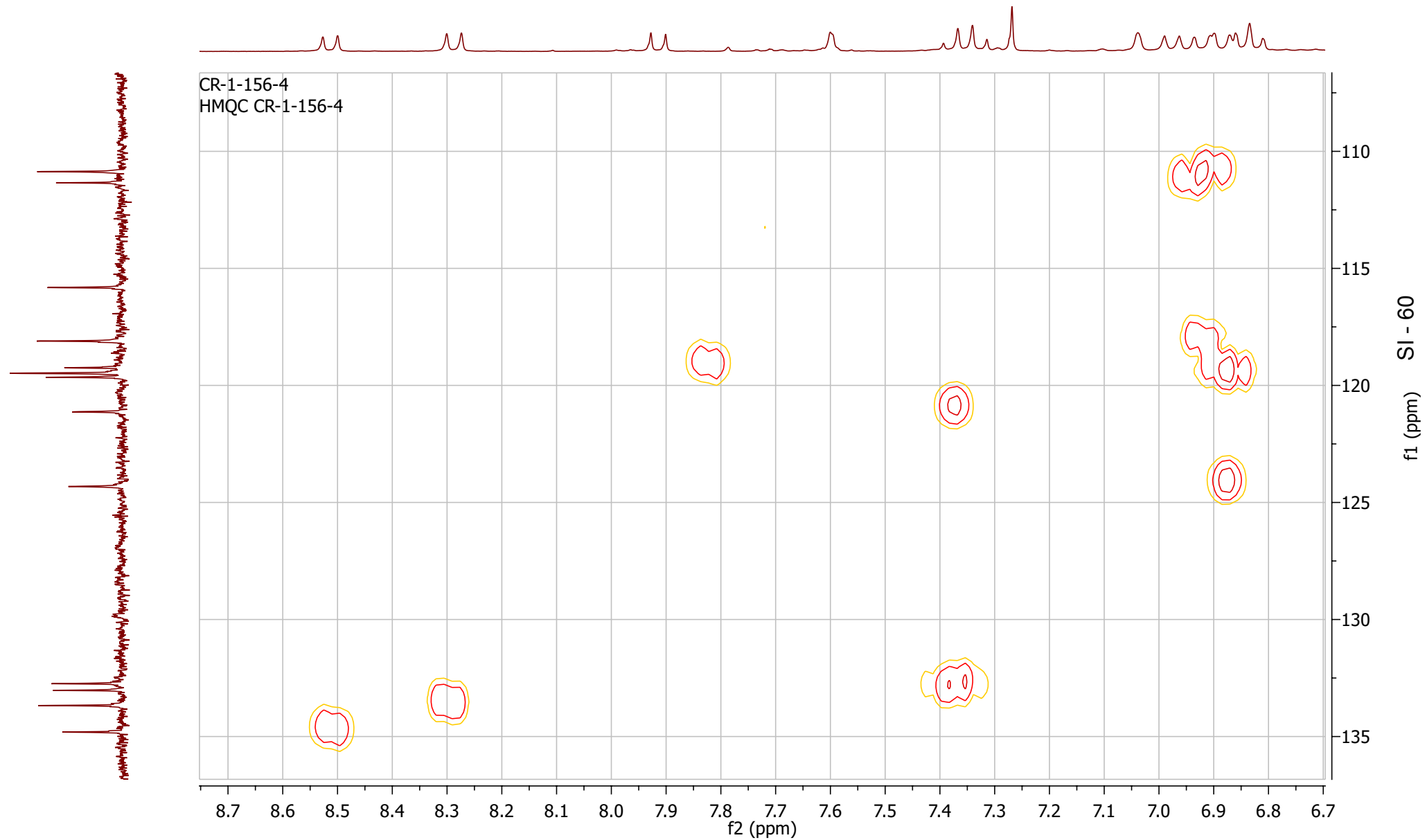
SI - 57

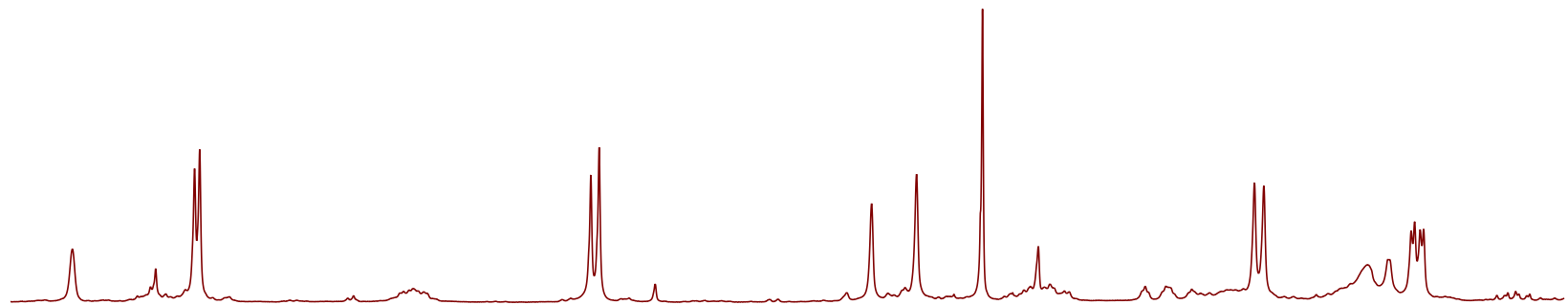
F1: 300.132		F2: 1.000		SW1: 6173		OF1: 1847.7		USER: root -- DATE: Fri Jan 18 19:54:04 2013	
EX: zg30		PW: 7.5 usec		PD: 1.0 sec		NA: 16		PTS1d: 32768	
						LB: 0.2		Nuts - \$SCR-1-156-4DiskC 1	



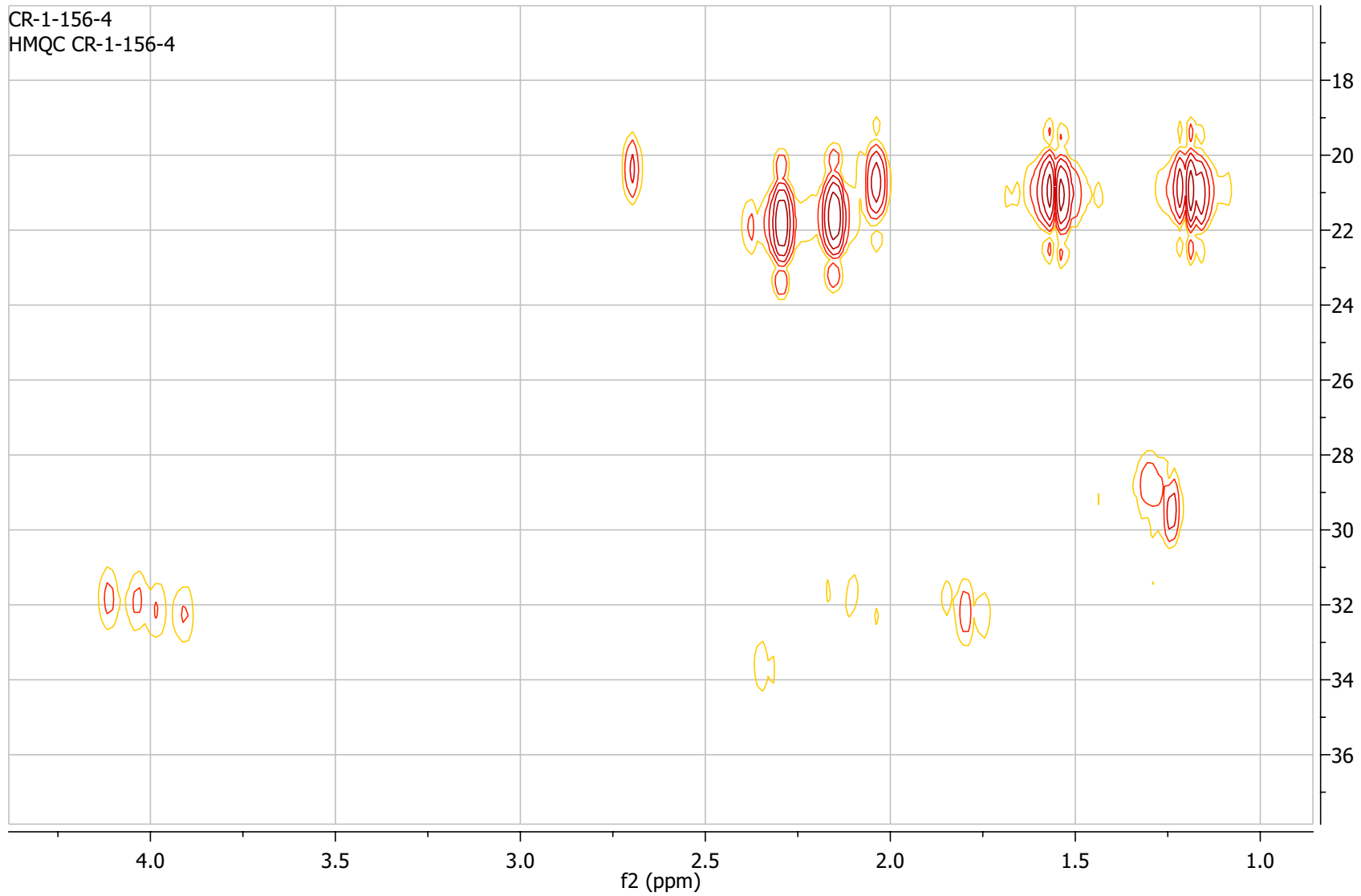
USER: root -- DATE: Fri Jan 18 21:28:09 2013							
F1: 75.475	F2: 1.000	SW1: 18116		OF1: 7535.7		PTS1d: 32768	
EX: zgpg30		PW: 7.3 usec	PD: 2.0 sec	NA: 200	LB: 1.8	Nuts - \$CR-1-156-4 2	



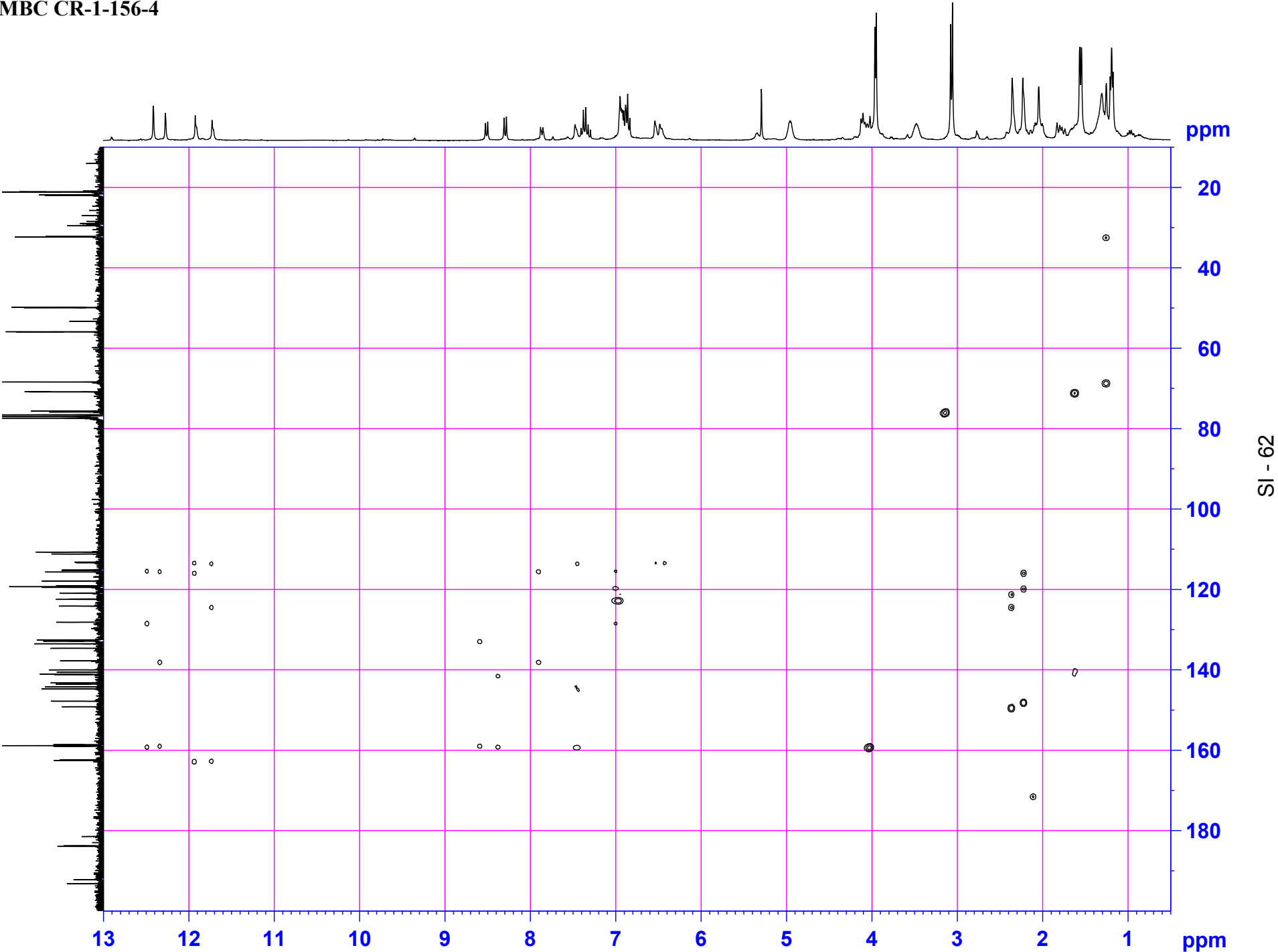




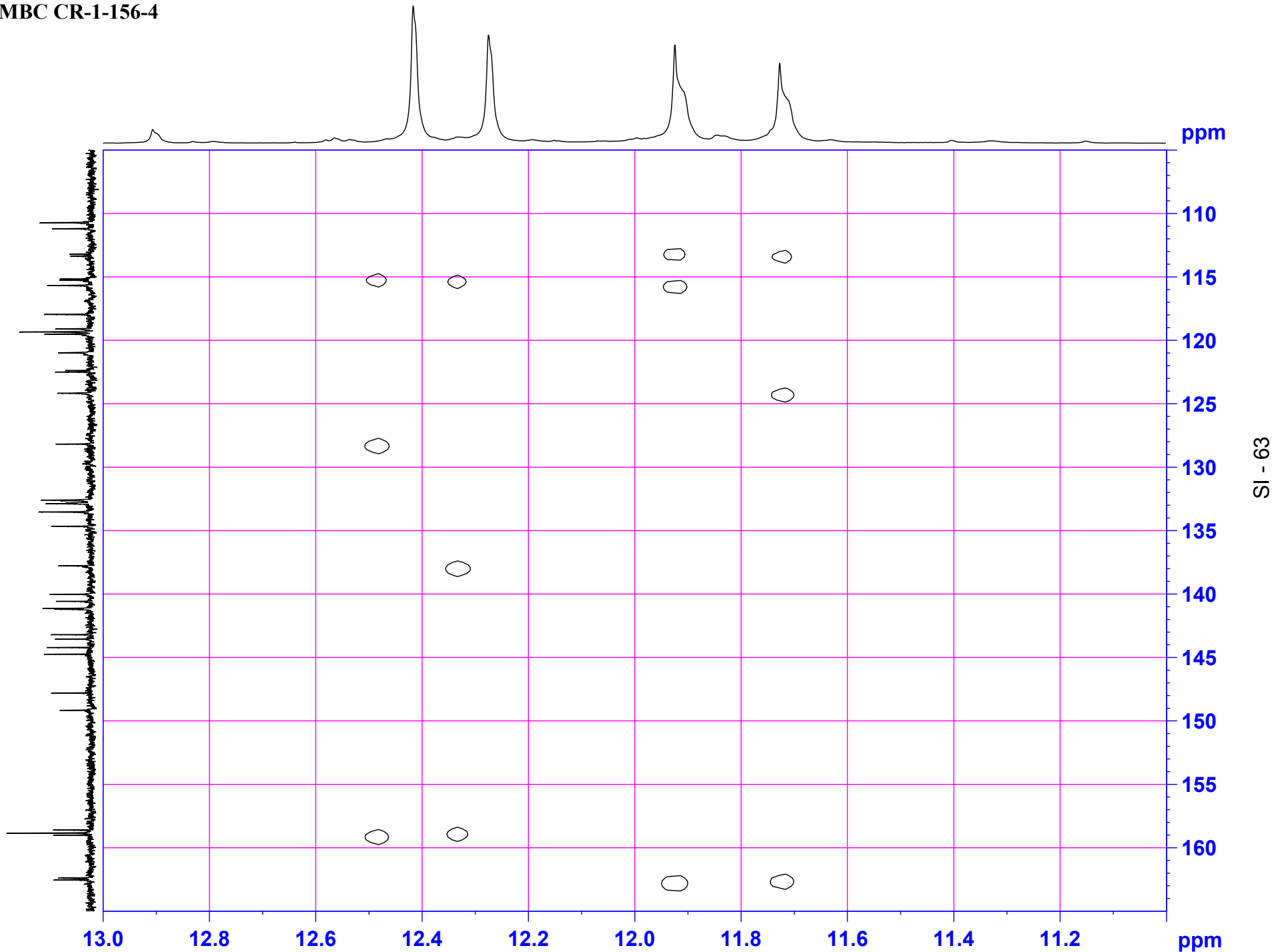
CR-1-156-4
HMQC CR-1-156-4



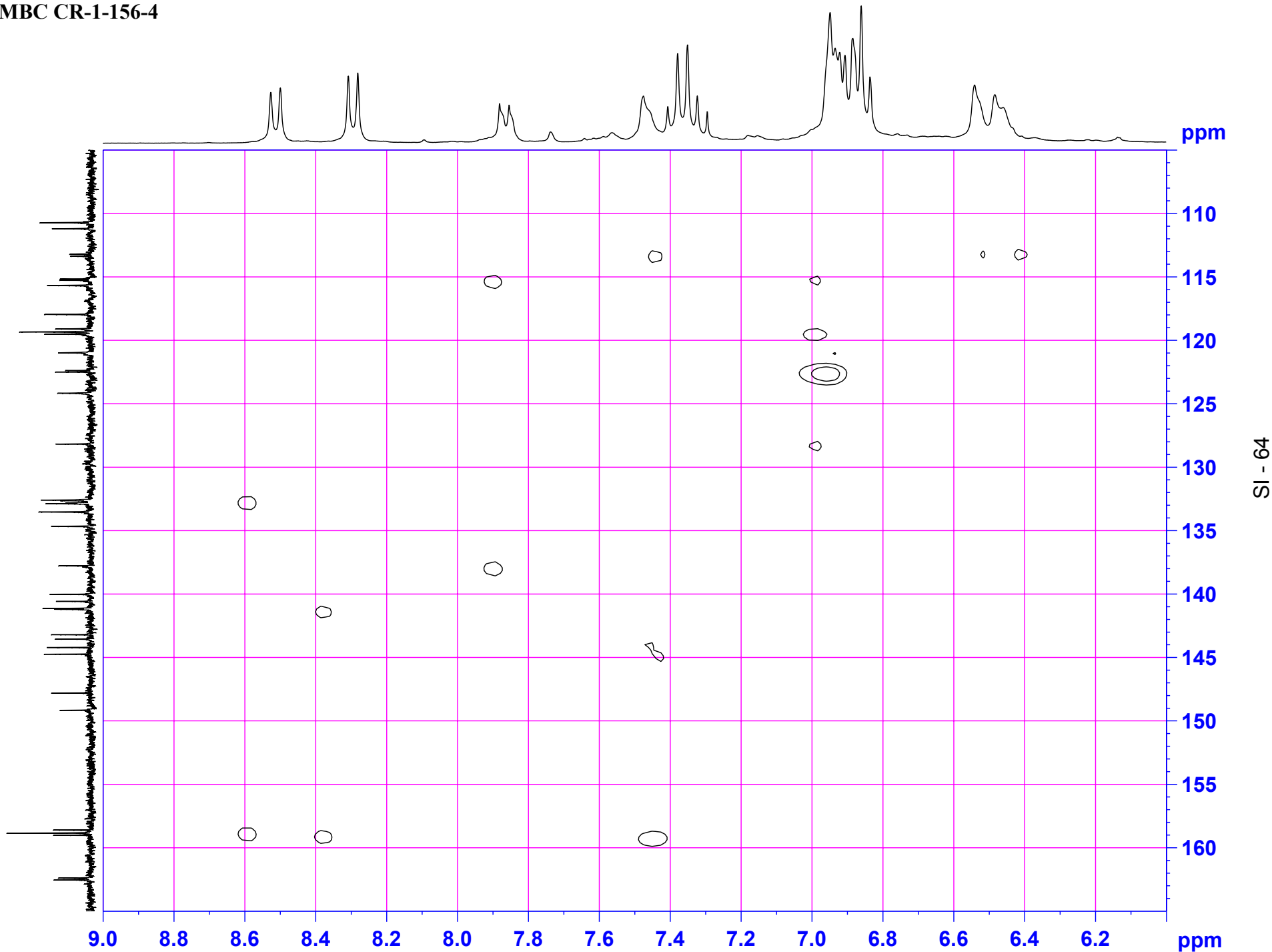
HMBC CR-1-156-4



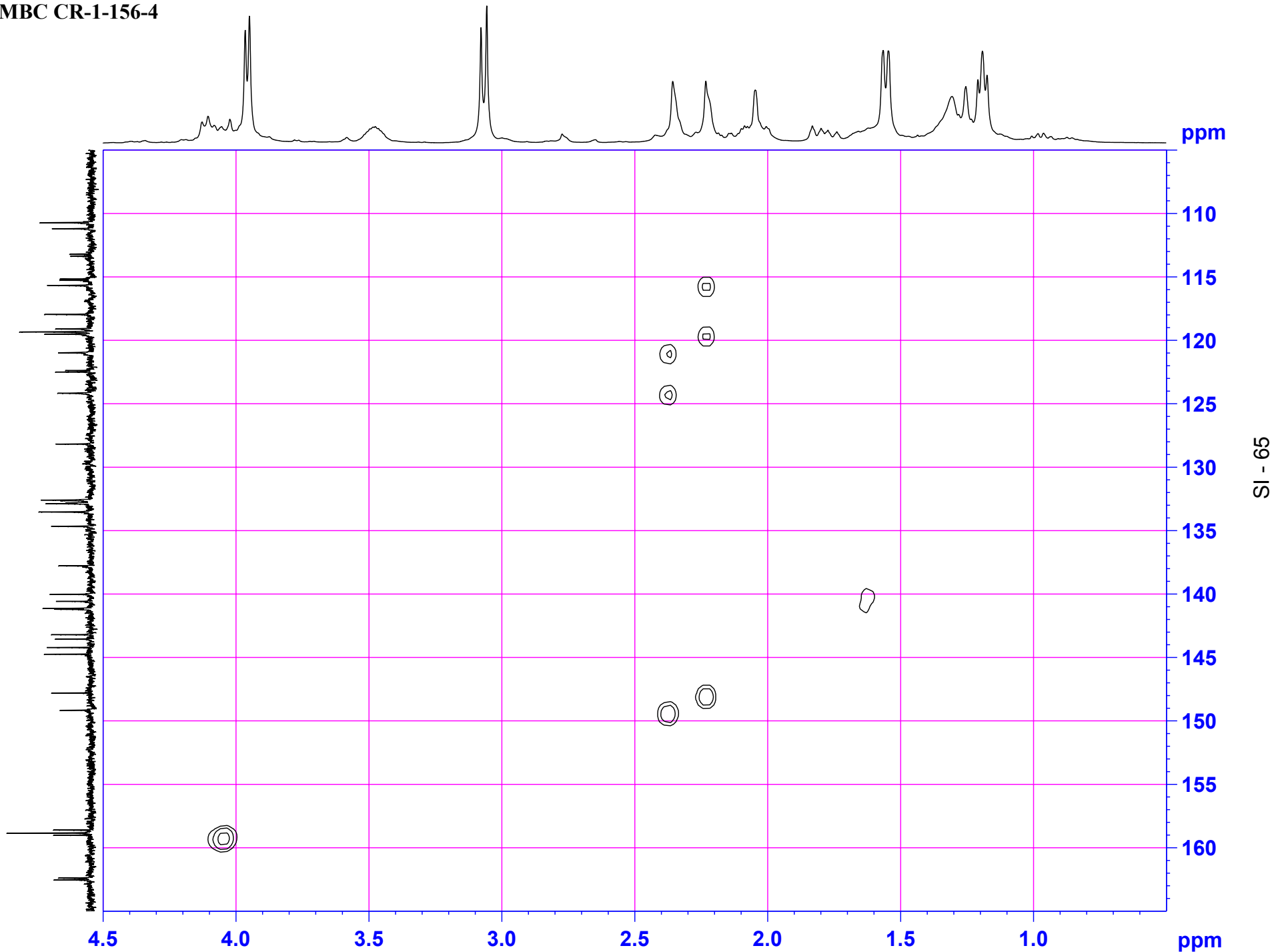
HMBC CR-1-156-4



HMBC CR-1-156-4



HMBC CR-1-156-4



HMBC CR-1-156-4

