Supporting Information

Selective Synthesis and Isolation of All Possible Conformational Isomers of Proximally *p*-Disubstituted Calix[4]arene

Shoichi Shimizu, Akihiro Moriyama, Katsuyuki Kito, and Yasuyuki Sasaki*

1a

F2 - Acquisition Parameters
 Date_ 20020115
 Time 22.18
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 12990.437 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 50.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 9.000 ppm
 F1 3601.17 Hz
 F2P -1.000 ppm
 F2 -400.13 Hz
 PPMCM 0.33333 ppm/cm
 HZCM 133.37666 Hz/cm

1a

F2 - Acquisition Parameters
 Date_ 20020115
 Time 22.18
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 50.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 4.800 ppm
 F1 1920.62 Hz
 F2P 2.800 ppm
 F2 1120.36 Hz
 PPMCM 0.06667 ppm/cm
 HZCM 26.67534 Hz/cm

1a

F2 - Acquisition Parameters
 Date_ 20020115
 Time 22.18
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.192959 Hz
 AQ 2.7329011 sec
 RG 50.8
 CW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SF01 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 2.300 ppm
 F1 920.30 Hz
 F2P 0.800 ppm
 F2 320.10 Hz
 PPMCM 0.05000 ppm/cm
 HZCM 20.00650 Hz/cm

1a

F2 - Acquisition Parameters
 Date_ 20020115
 Time 22.28
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11436
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 4096
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P1 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127594 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 180.000 ppm
 F1 18110.30 Hz
 F2P -10.000 ppm

F2 - Acquisition Parameters

Date_ 20020119
Time 22.34
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 11990.407 Hz
FIDRES 0.162959 Hz
AQ 2.7329011 sec
RG 143.7
CW 41.700 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 8.80 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300087 MHz
WDW EM
SSB C
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 9.000 ppm
F1 3601.17 Hz
F2P -1.000 ppm
F2 -400.13 Hz
PPMCM 0.33333 ppm/cm
HZCM 133.37666 Hz/cm

F2 - Acquisition Parameters

Date_ 20020119
Time 22.46
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 37417
DS 4
SWH 25125.629 Hz
FIDRES 0.383387 Hz
AQ 1.3342164 sec
RG 14596.5
DW 19.900 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 8.50 usec
PL1 -2.00 dB
SFO1 100.6237959 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.00 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127556 MHz
WDW EM
SSB C
LB 1.00 Hz
GB C
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 180.000 ppm
F1 18110.30 Hz

F2 - Acquisition Parameters
 Date_ 20020119
 Time 22.46
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 37417
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 14596.5
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127556 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 140.000 ppm
 F1 14085.79 Hz
 F2P 112.000 ppm

F2 - Acquisition Parameters

Date_ 20020119
 Time 22.46
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 37417
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 14596.5
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====

NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====

CPCPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters

SI 32768
 SF 100.6127556 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters

CX 30.00 cm
 F1P 85.000 ppm
 F1 8552.08 Hz
 F2P 70.000 ppm

F2 - Acquisition Parameters

Date_ 20020119
Time 22.46
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 37417
DS 4
SWH 25125.629 Hz
FIDRES 0.383387 Hz
AQ 1.3042164 sec
RG 14596.5
DW 19.900 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 8.50 usec
PL1 -2.00 dB
SFO1 100.6237959 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.00 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127556 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 30.00 cm
F1P 40.000 ppm
F1 4024.51 Hz
F2P 5.000 ppm

1c

F2 - Acquisition Parameters

Date_ 20020214
Time 21.57
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 11990.407 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 71.8
DW 41.700 usec
DE 6.00 usec
TE 300.0 K
D1 1.0000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 8.00 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300095 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 9.000 ppm
F1 3601.17 Hz
F2P -1.000 ppm
F2 -400.13 Hz
PPMCM 0.33333 ppm/cm
HZCM 133.37666 Hz/cm

7.25974
7.22687
7.22065
7.15780
7.15159
7.10313
7.09941
7.08411
7.08055
7.02372
7.02015
7.00497
7.00152
6.85283
6.83401
6.81533

4.20493
4.17345
4.10936
4.07748
3.82676
3.40605
3.39658
3.39093
3.38526
3.38033
3.37620
3.36994
3.36003
3.33481
3.31782
3.30190
3.29690
3.28136
3.19326
3.16160
3.07537
3.04340
1.36086
1.34175
1.32298
1.17910
1.15978
1.14508
1.03019
1.01202
0.91520
0.89843
0.87981
0.86437
0.75234
0.73368
0.71497
0.61743
0.59881
0.58009

1.9403
1.9258
1.9633
2.0333
1.9148

2.0000
3.8817
7.8428
2.1254

2.0295
1.9724
1.9921
2.0605
5.8557
5.9369

1c

F2 - Acquisition Parameters
 Date_ 20020214
 Time 21.57
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 71.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 4.300 ppm
 F1 1720.56 Hz
 F2P 2.900 ppm
 F2 1160.38 Hz
 PPMCM 0.04667 ppm/cm
 HZCM 18.67274 Hz/cm

1c

F2 - Acquisition Parameters
 Date_ 20020214
 Time 21.57
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 71.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 1.500 ppm
 F1 600.20 Hz
 F2P 0.500 ppm
 F2 200.07 Hz
 PPMCM 0.03333 ppm/cm
 HZCM 13.33767 Hz/cm

1c

F2 - Acquisition Parameters
 Date_ 20020214
 Time 22.12
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 12325
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 8192
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127564 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 180.000 ppm
 F1 18110.30 Hz
 F2P -10.000 ppm

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.13
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 71.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300062 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 FLP 9.000 ppm
 F1 3601.17 Hz
 F2P -1.000 ppm
 F2 -400.13 Hz
 PPMCM 0.33333 ppm/cm
 HZCM 133.37666 Hz/cm

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.13
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 71.8
 DW 41.700 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.80 usec
 PL1 -2.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300062 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 4.500 ppm
 F1 1800.58 Hz
 F2P 2.400 ppm
 F2 960.31 Hz
 PPMCM 0.07000 ppm/cm
 HZCM 28.00910 Hz/cm

1d*

F2 - Acquisition Parameters

Date_ 20020121
Time 22.13
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 11990.407 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 71.8
DW 41.700 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====

NUC1 1H
P1 8.80 usec
PL1 -2.00 dB
SF01 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300062 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 2.300 ppm
F1 920.30 Hz
F2P 0.400 ppm
F2 160.05 Hz
PPMCM 0.06333 ppm/cm
HZCM 25.34157 Hz/cm

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.23
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11946
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 4096
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127548 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 180.000 ppm
 F1 18110.30 Hz
 F2P -10.000 ppm

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.23
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11946
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 4096
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127548 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 160.000 ppm
 F1 16098.04 Hz
 F2P 110.000 ppm

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.23
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11946
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 4096
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316905 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127548 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 85.000 ppm
 F1 8552.08 Hz
 F2P 70.000 ppm
 F2 7042.89 Hz

1d*

F2 - Acquisition Parameters
 Date_ 20020121
 Time 22.23
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11946
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 4096
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127548 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 37.000 ppm
 F1 3722.67 Hz
 F2P 8.000 ppm
 w 0.00 0.00 0.00

F2 - Acquisition Parameters

Date_	20020116
Time	22.17
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	11990.407 Hz
FIDRES	0.182959 Hz
AQ	2.7329011 sec
RG	114
DW	41.700 usec
DE	6.00 usec
TE	300.0 K
D1	1.00000000 sec

===== CHANNEL f1 =====

NUC1	1H
P1	9.80 usec
PL1	-2.00 dB
SFO1	400.1324710 MHz

F2 - Processing parameters

SI	32768
SF	400.1300095 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	30.00 cm
F1P	9.000 ppm
F1	3601.17 Hz
F2P	-1.000 ppm
F2	-400.13 Hz
PPMCM	0.33333 ppm/cm
HZCM	133.37666 Hz/cm

F2 - Acquisition Parameters

Date_	20020116
Time	22.17
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	11990.407 Hz
FIDRES	0.182959 Hz
AQ	2.7329011 sec
RG	114
DW	41.700 usec
DE	6.00 usec
TE	300.0 K
D1	1.00000000 sec

===== CHANNEL f1 =====

NUC1	1H
P1	8.80 usec
PL1	-2.00 dB
SFO1	400.1324710 MHz

F2 - Processing parameters

SI	32768
SF	400.1300095 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	30.00 cm
F1P	4.400 ppm
F1	1760.57 Hz
F2P	2.800 ppm
F2	1120.36 Hz
PPMCM	0.05333 ppm/cm
HZCM	21.34027 Hz/cm

1e*

F2 - Acquisition Parameters

Date_ 20020116
Time 22.17
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 11990.407 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 114
DW 41.700 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====

NUC1 1H
P1 8.80 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300095 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 1.900 ppm
F1 760.25 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.06333 ppm/cm
HZCM 25.34157 Hz/cm

F2 - Acquisition Parameters
 Date_ 20020116
 Time 22.25
 INSTRUM dpx400
 PROBHD 5 mm QNP 1H/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 11522
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 8192
 DW 19.900 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 8.50 usec
 PL1 -2.00 dB
 SFO1 100.6237959 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.00 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127556 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 30.00 cm
 F1P 180.000 ppm
 F1 18110.30 Hz
 F2P -10.000 ppm
 F2 -1006.13 Hz

F2 - Acquisition Parameters

Date_ 20011204
Time 22.11
INSTRUM dpx400
PROBHD 5 mm QNP 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 11990.407 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 101.6
DW 41.700 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====

NUC1 1H
P1 8.80 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300084 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 30.00 cm
F1P 10.000 ppm
F1 4001.30 Hz
F2P -2.000 ppm
F2 -800.26 Hz
PPMCM 0.40000 ppm/cm
HZCM 160.05200 Hz/cm

F2 - Acquisition Parameters

Date_	20011204
Time	22.20
INSTRUM	dpx400
PROBHD	5 mm QNP 1H/
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	12098
DS	4
SWH	25125.629 Kz
FIDRES	0.383387 Kz
AQ	1.3042164 sec
RG	8192
DW	19.900 usec
DE	6.00 usec
TE	300.0 K
D1	2.00000000 sec
d11	0.03000000 sec
d12	0.00002000 sec

===== CHANNEL f1 =====

NUC1	13C
P1	8.50 usec
PL1	-2.00 dB
SFO1	100.6237959 MHz

===== CHANNEL f2 =====

CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PL2	-2.00 dB
PL12	18.00 dB
PL13	18.00 dB
SFO2	400.1316005 MHz

F2 - Processing parameters

SI	32768
SP	100.6127556 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	30.00 cm
PLP	180.000 ppm
F1	18110.30 Hz
F2P	-10.000 ppm