

Part 2 of 2

Supporting Information for

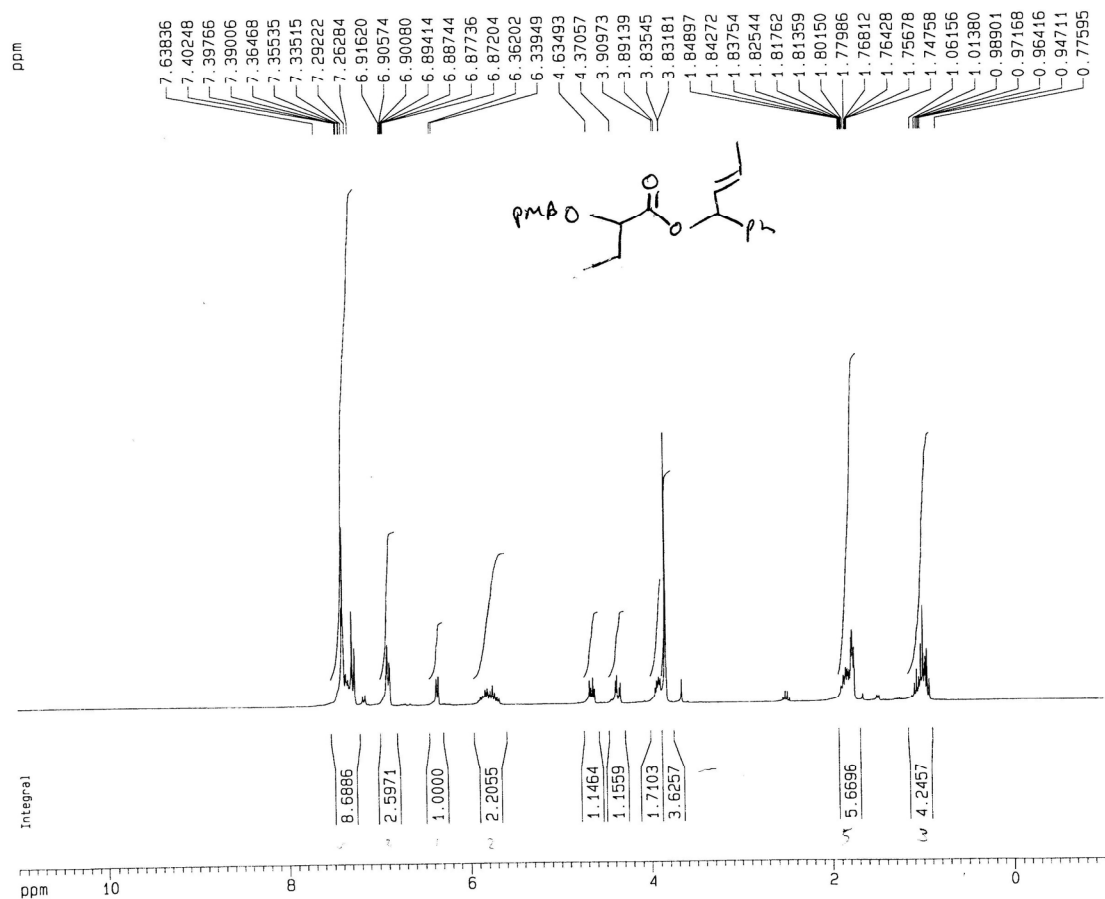
Synthesis Studies on the Lomaiviticin A Aglycone Core: Development of a Divergent, Two-Directional Strategy

Ken S. Feldman and Brandon R. Selfridge*

Department of Chemistry, The Pennsylvania State University, University Park, Pennsylvania 16802, USA

47 ¹ H NMR	S2	51 ¹ H NMR	S10
47 ¹³ C NMR	S3	51 ¹³ C NMR	S11
48 ¹ H NMR	S4	52 ¹ H NMR	S12
48 ¹³ C NMR	S5	52 ¹³ C NMR	S13
49a ¹ H NMR	S6	57 ¹ H NMR	S14
49a ¹³ C NMR	S7	57 ¹³ C NMR	S15
50 ¹ H NMR	S8	58 ¹ H NMR	S16
50 ¹³ C NMR	S9	58 ¹³ C NMR	S17

47 ¹H NMR



Current Data Parameters
NAME brs_i2_23_11
EXPNO 1
PROCNO 1

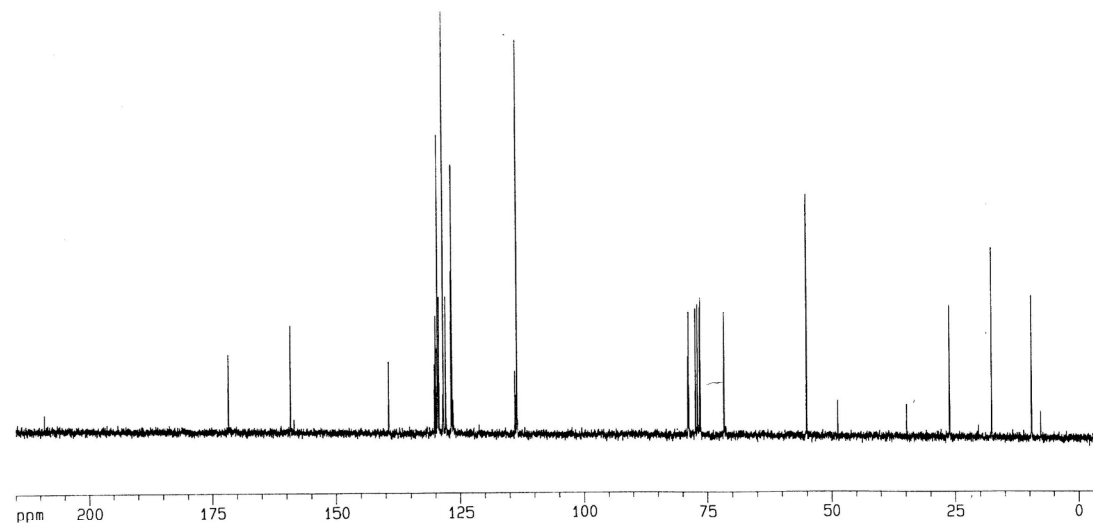
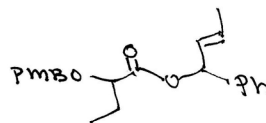
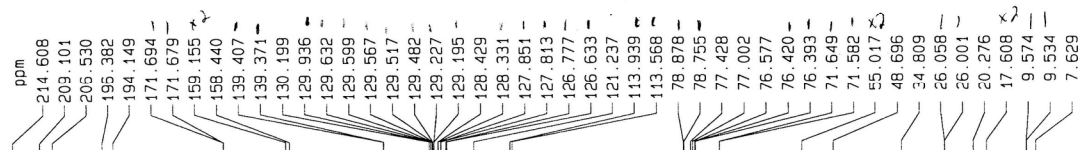
F2 - Acquisition Parameters
Date_ 20111223
Time 13.25
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 161.3
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 12.10 usec
PL1 0.00 dB
SF01 299.8718518 MHz

F2 - Processing parameters
SI 32768
SF 299.8700000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 3298.57 Hz
F2P -1.000 ppm
F2 -299.87 Hz
PPMCM 0.60000 ppm/cm
HZCM 179.92200 Hz/cm

^{13}C NMR



Current Data Parameters
NAME brs_12_23_11
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20111223
Time 13.35
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 62
DS 4
SWH 18796.992 Hz
FIDRES 0.573639 Hz
AQ 0.8716788 sec
RG 1024
DW 26.600 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

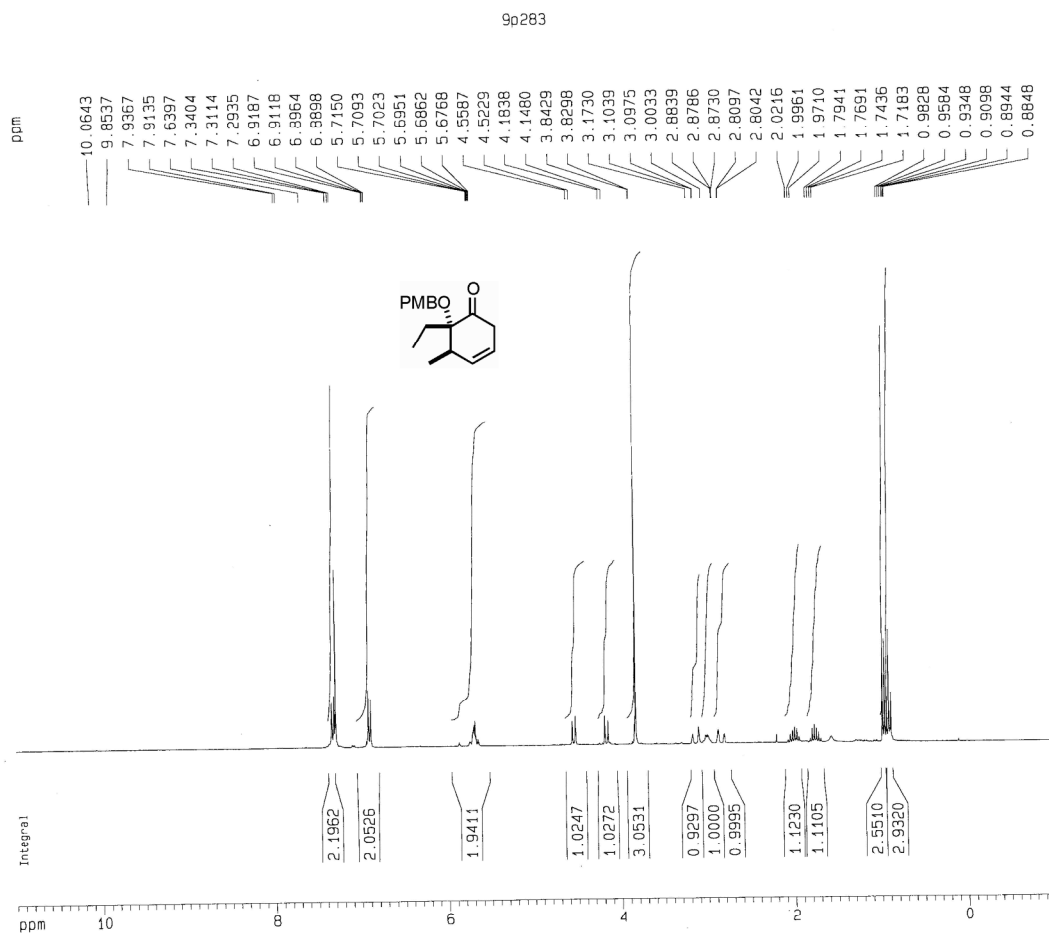
===== CHANNEL f1 =====
NUC1 13C
P1 5.25 usec
PL1 -6.00 dB
SFO1 75.4106357 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 115.00 usec
PL2 0.00 dB
PL12 19.70 dB
PL13 19.70 dB
SFO2 299.8711995 MHz

F2 - Processing parameters
SI 32768
SF 75.4023895 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 16211.51 Hz
F2P -5.000 ppm
F2 -377.01 Hz
PPMCM 11.00000 ppm/cm
HZCM 829.42627 Hz/cm

48 ¹H NMR



Current Data Parameters
NAME brs_1_6_12
EXPNO 2
PROCNO 1

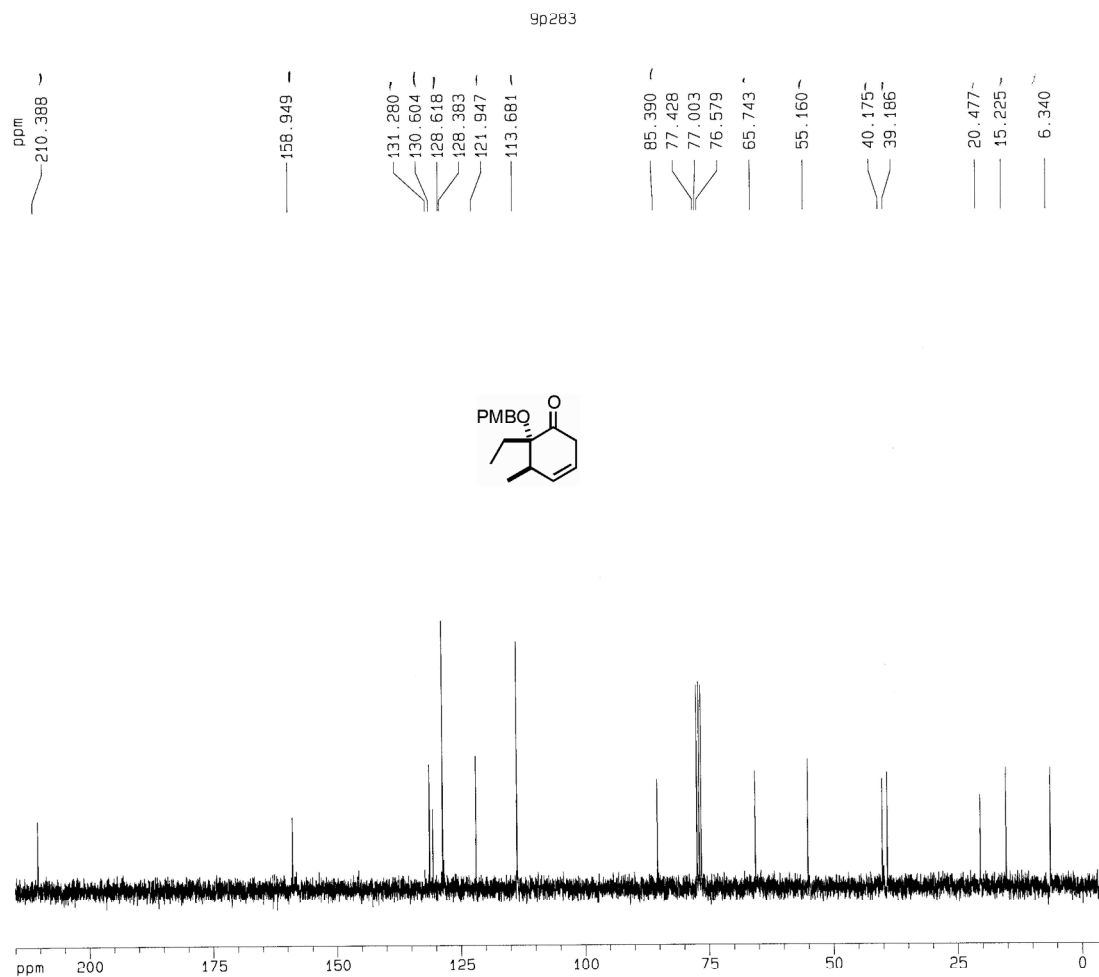
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Time 7.44
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 724.1
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 12.10 usec
PL1 0.00 dB
SFO1 299.8718518 MHz

F2 - Processing parameters
SI 32768
SF 299.8700000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 3298.57 Hz
F2P 1.000 ppm
F2 -299.87 Hz
PPMCM 0.60000 ppm/cm
HZCM 179.92200 Hz/cm

48 ¹³C NMR



Current Data Parameters
 NAME hrs_1_6_12
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20120105
 Time 7.58
 INSTRUM spect
 PROBHD 5 mm GNP 1H/1
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 18795.992 Hz
 FIDRES 0.573639 Hz
 AQ 0.8716788 sec
 RG 16384
 DW 26.600 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 D12 0.00002000 sec

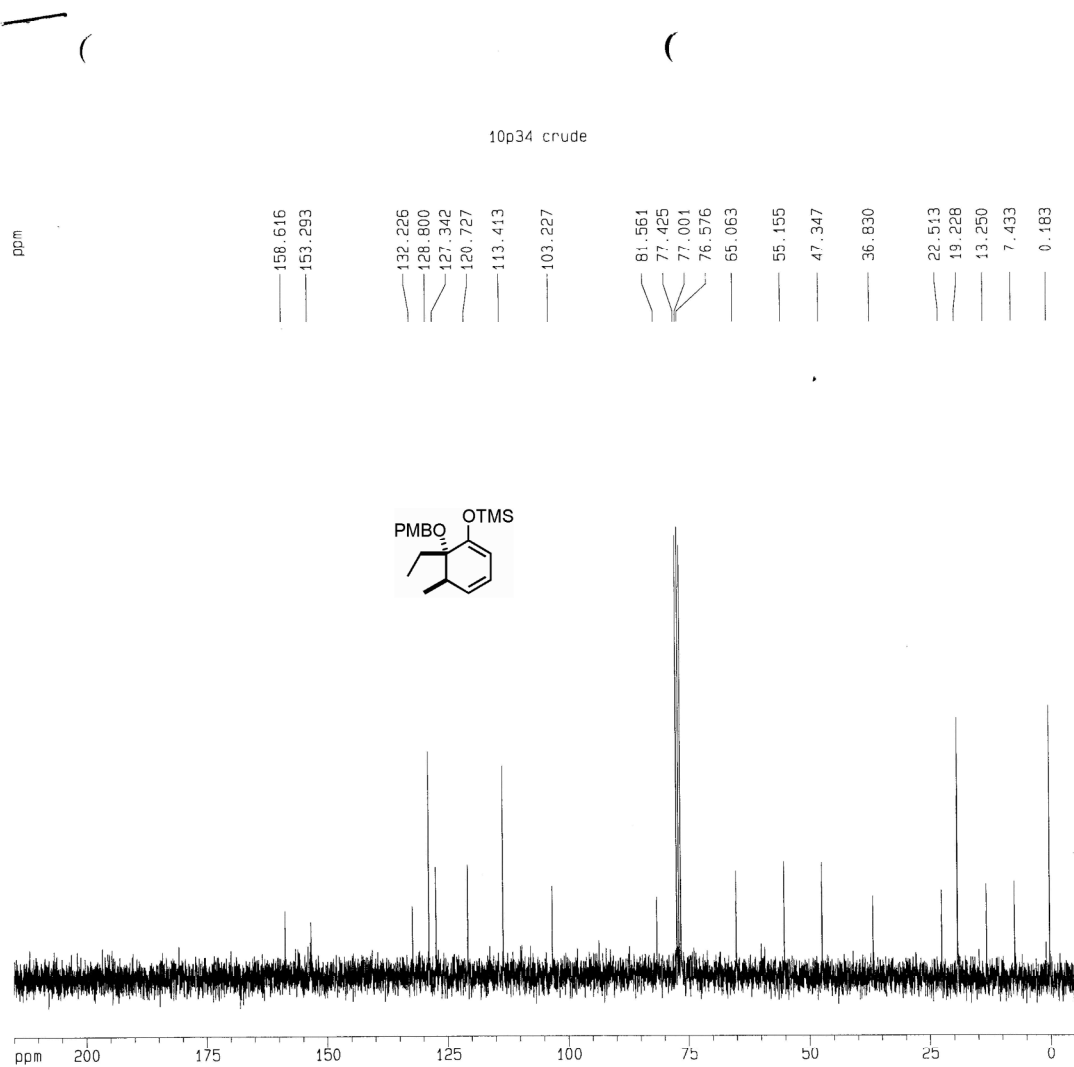
===== CHANNEL f1 =====
 NUC1 13C
 P1 5.25 usec
 PL1 -6.00 dB
 SF01 75.4106357 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 115.00 usec
 PL2 0.00 dB
 PL12 19.70 dB
 PL13 19.70 dB
 SF02 299.8711995 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4023815 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 215.000 ppm
 F1 16211.51 Hz
 F2P -5.000 ppm
 F2 -377.01 Hz
 PPMCM 11.00000 ppm/cm
 HZCM 829.42621 Hz/cm

49a ¹³C NMR



Current Data Parameters
NAME brs_1_19_12
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20120119
Time 9.31
INSTRUM spect
PROBHD 5 mm DNP 14/1
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 869
DS 4
SWH 18796.992 Hz
FIDRES 0.573639 Hz
AQ 0.8716788 sec
RG 13004
DW 26.600 usec
DE 6.00 usec
TE 300.0 K
D1 0.50000000 sec
D11 0.03000000 sec
D12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 5.25 usec
PL1 -6.00 dB
SF01 75.4106357 MHz

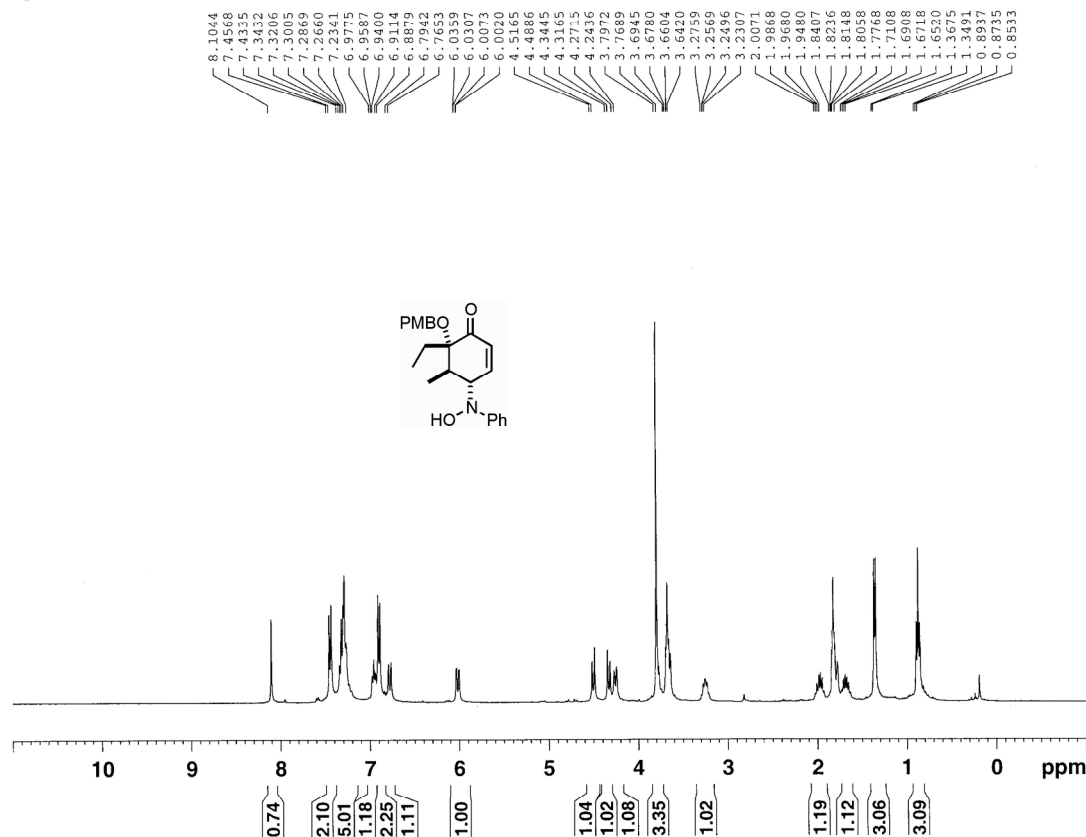
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 115.00 usec
PL2 0.00 dB
PL12 19.70 dB
PL13 19.70 dB
SF02 299.8711995 MHz

F2 - Processing parameters
S1 32768
SF 75.4023803 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
F1P 215.000 ppm
F1 16211.51 Hz
F2P -5.000 ppm
F2 -377.01 Hz
PPHMC 11.00000 ppm/cm
HZCM 829.42621 Hz/cm

50 ¹H NMR

10p74 in THF



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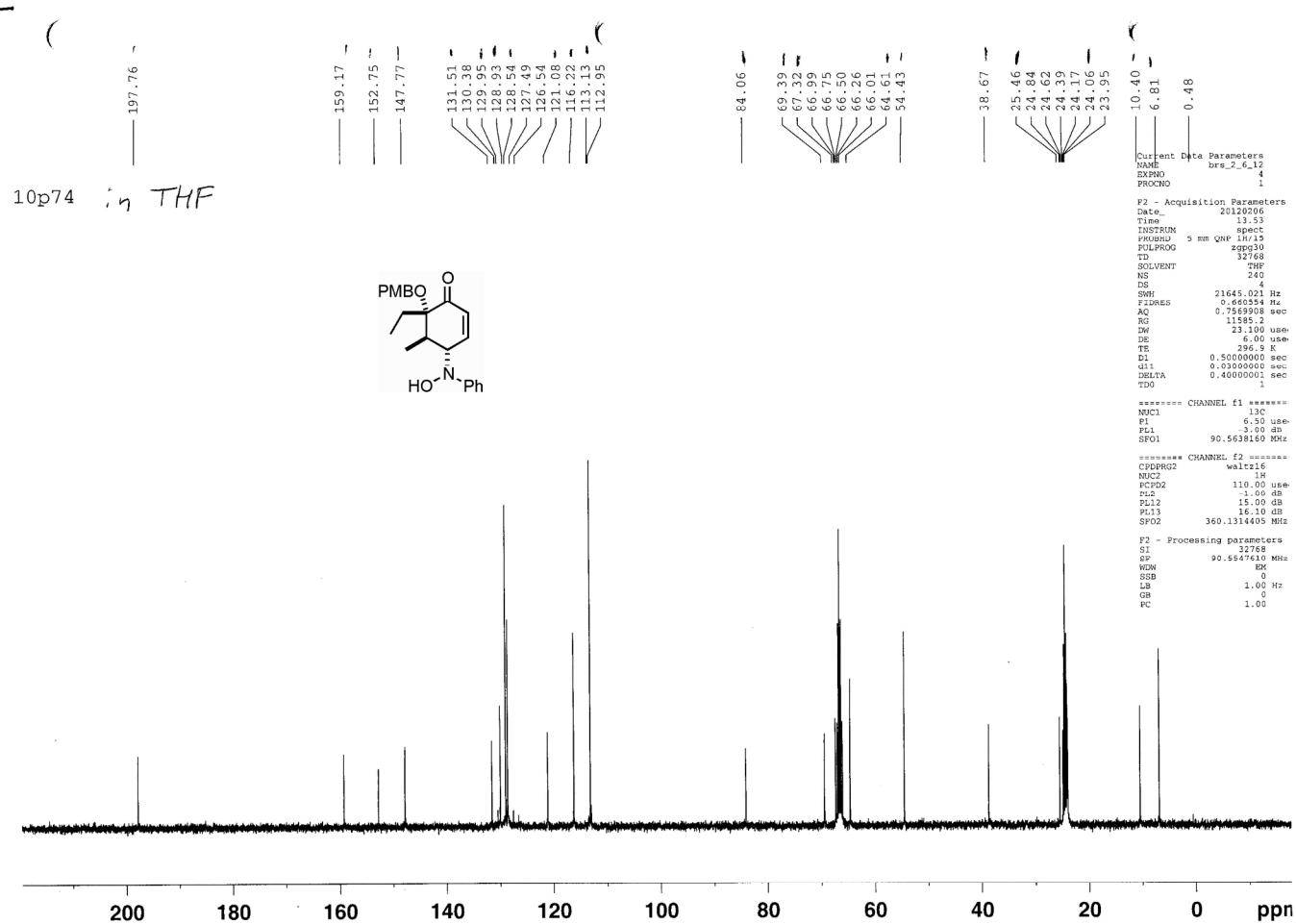
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EXPNO     3
PROCNO    1

F2 - Acquisition Parameters
Date_     20120206
Time      13.42
INSTRUM   spect
PROBHD    5 mm QNP 1H/15
PULPROG   zg30
TD         32768
SOLVENT   THF
NS         16
DS         2
SWH        7440.476 Hz
FIDRES     0.227065 Hz
AQ         2.2020595 sec
RG          90.5
DW         67.200 usec
DE         6.00 usec
TE         296.3 K
D1         1.00000000 sec
TD0        1

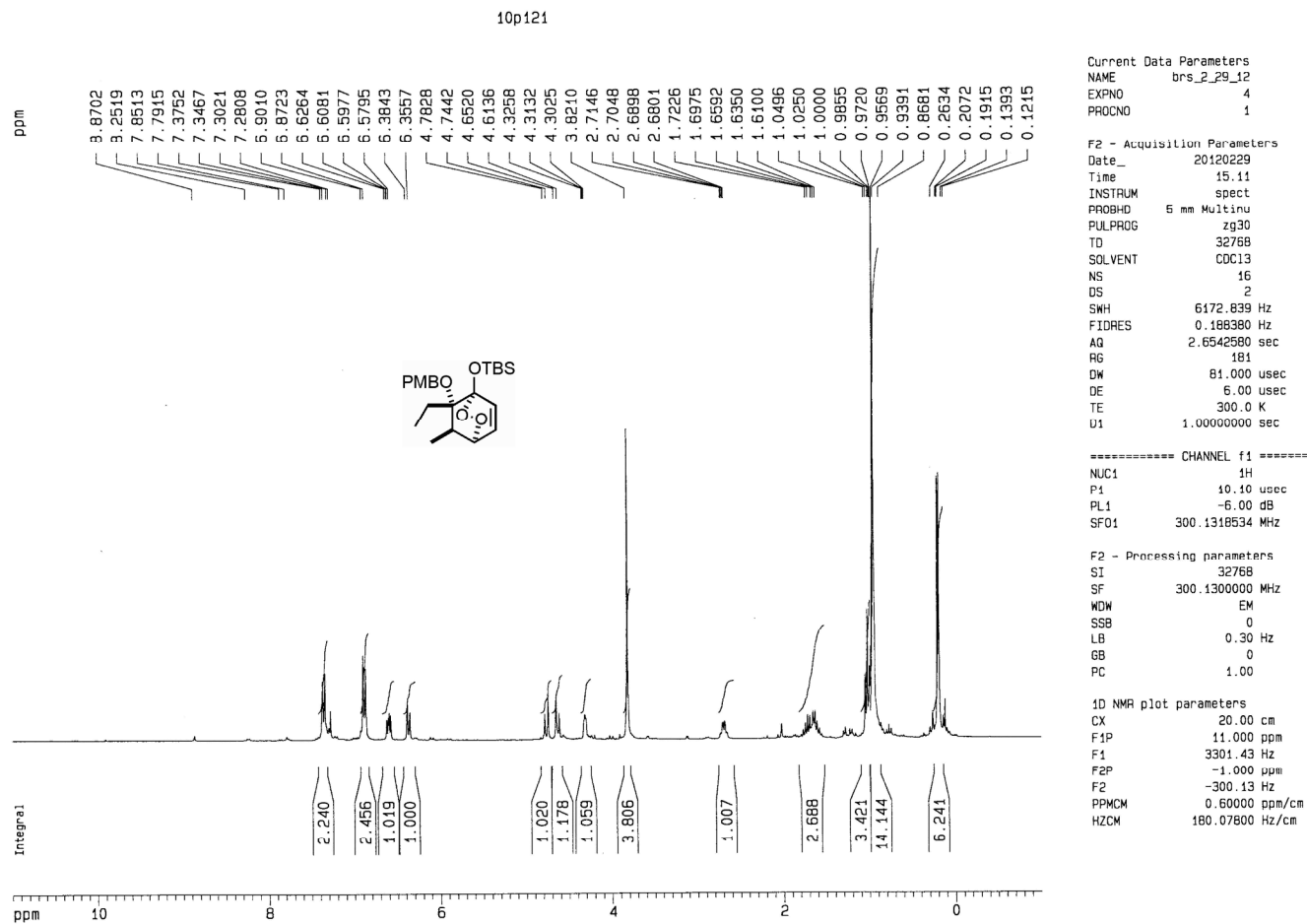
===== CHANNEL f1 =====
NUC1       1H
P1         13.00 usec
PL1        -3.00 dB
SFO1       360.1322240 MHz

F2 - Processing parameters
SI         32768
SF         360.1300000 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
    
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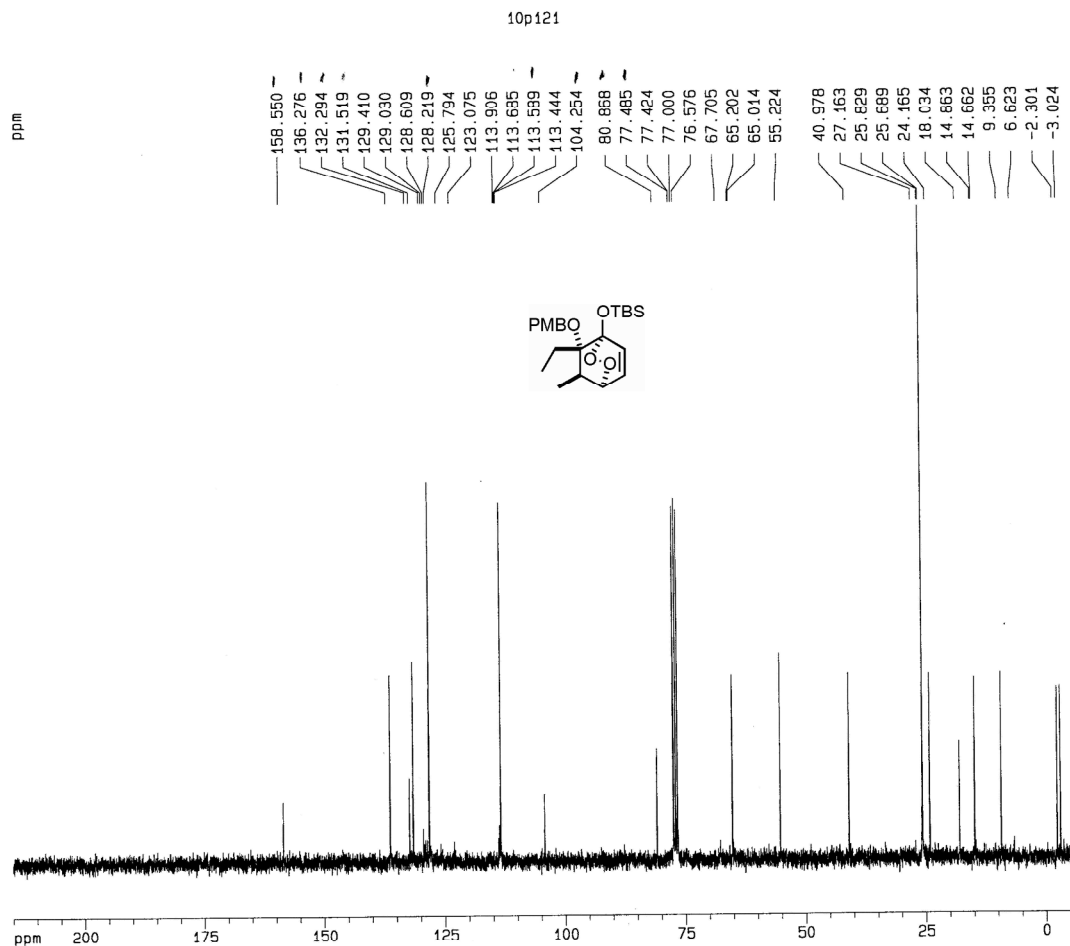
50 ¹³C NMR



S10



^{51}C NMR



Current Data Parameters

NAME brs_2_29_12
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters

Date_ 20120229
Time 15.16
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 774
DS 4
SWH 18632.393 Hz
FIDRES 0.574719 Hz
AQ 0.8700404 sec
RG 16384
DM 26.550 usec
DE 6.00 usec
TE 300.0 K
D1 0.50000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

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

NUC1 ^{13}C
P1 9.75 usec
PL1 0.00 dB
SF01 75.4760200 MHz

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

CPDPRG2 waltz16
NUC2 ^1H
PCPD2 110.00 usec
PL2 0.00 dB
PL12 17.50 dB
PL13 17.50 dB
SF02 300.1312005 MHz

F2 - Processing parameters

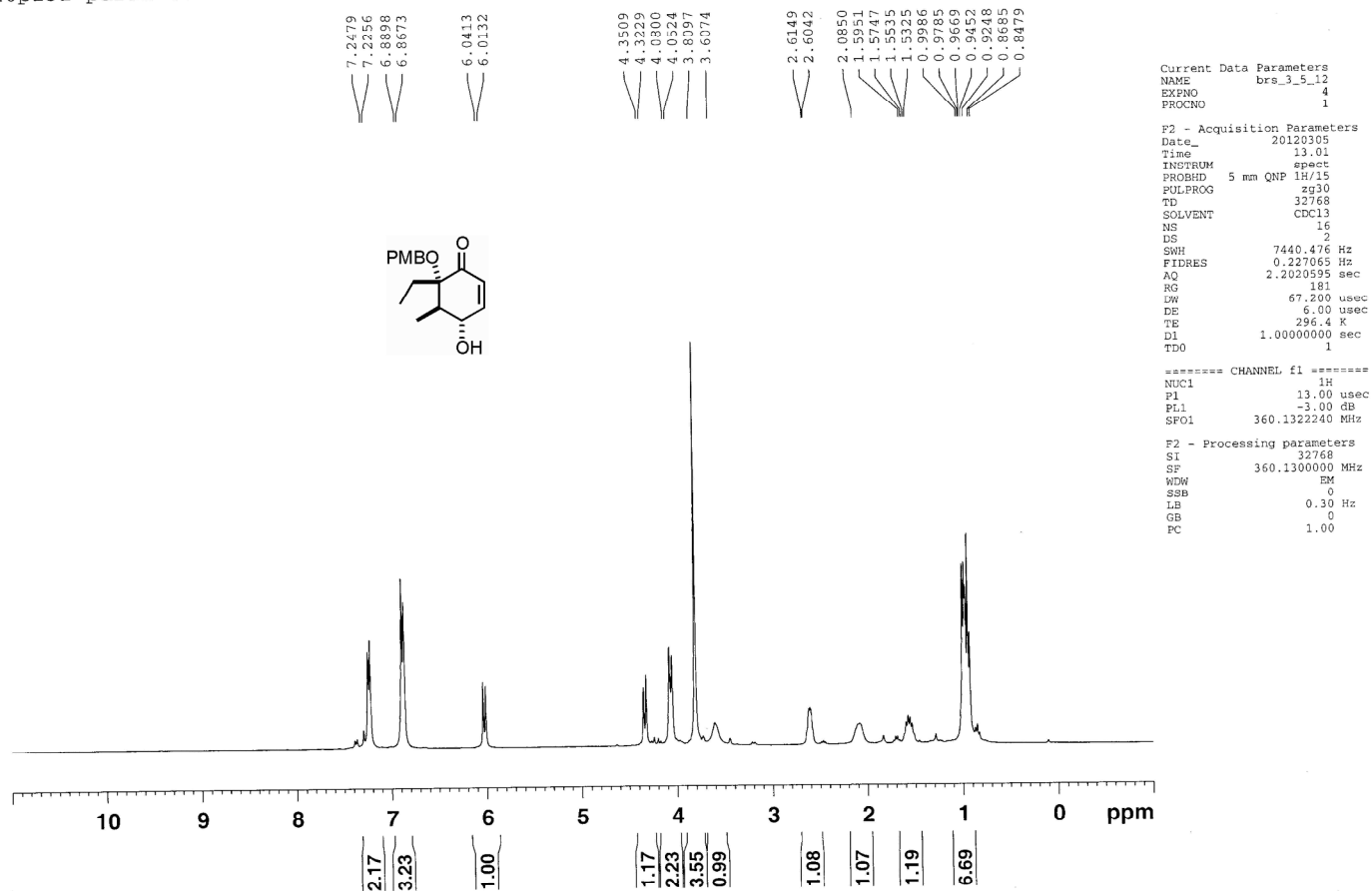
SI 32768
SF 75.4677526 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 20.00 cm
F1P 215.000 ppm
F1 16225.57 Hz
F2P -5.000 ppm
F2 -377.34 Hz
PPMCM 11.00000 ppm/cm
HZCM 830.14526 Hz/cm

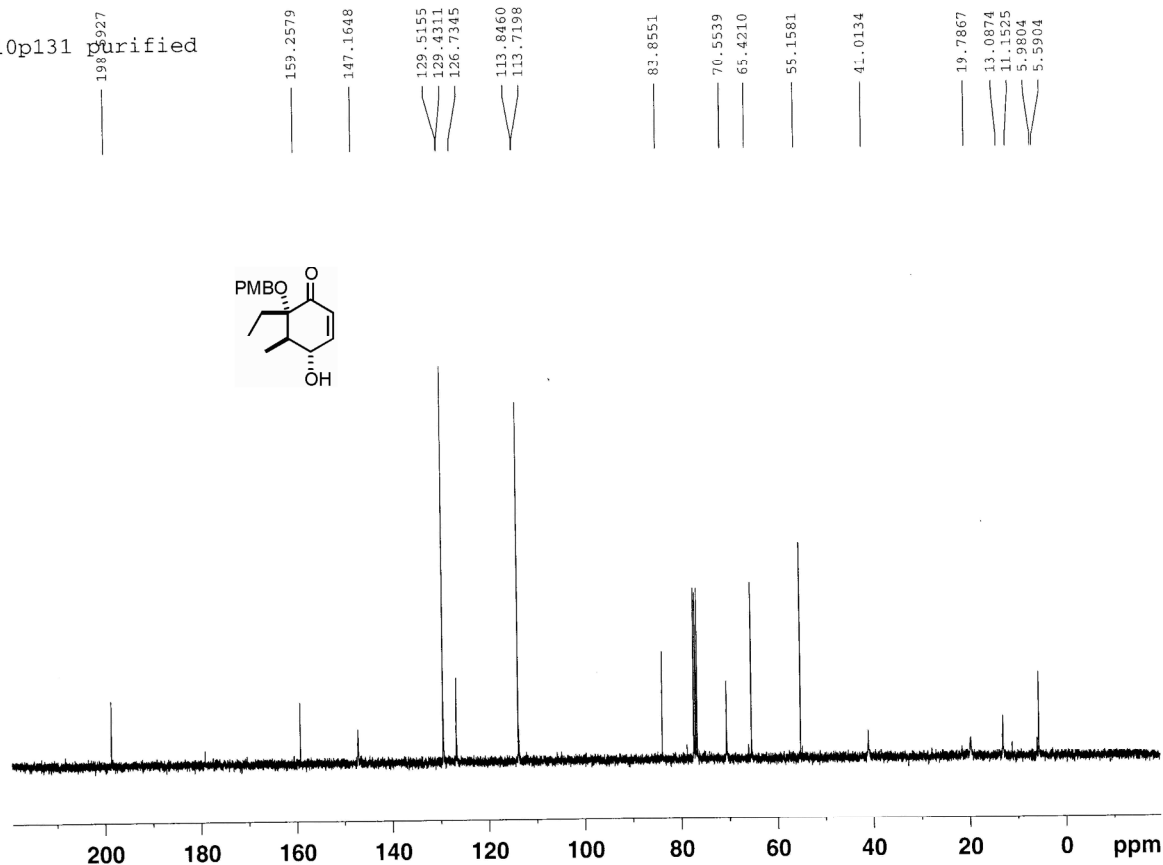
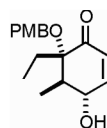
52 ¹H NMR

10p131 purified



52 ¹³C NMR

10p131 purified



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Current Data Parameters
NAME      brs_3_5_12
EXPNO     5
PROCNO    1

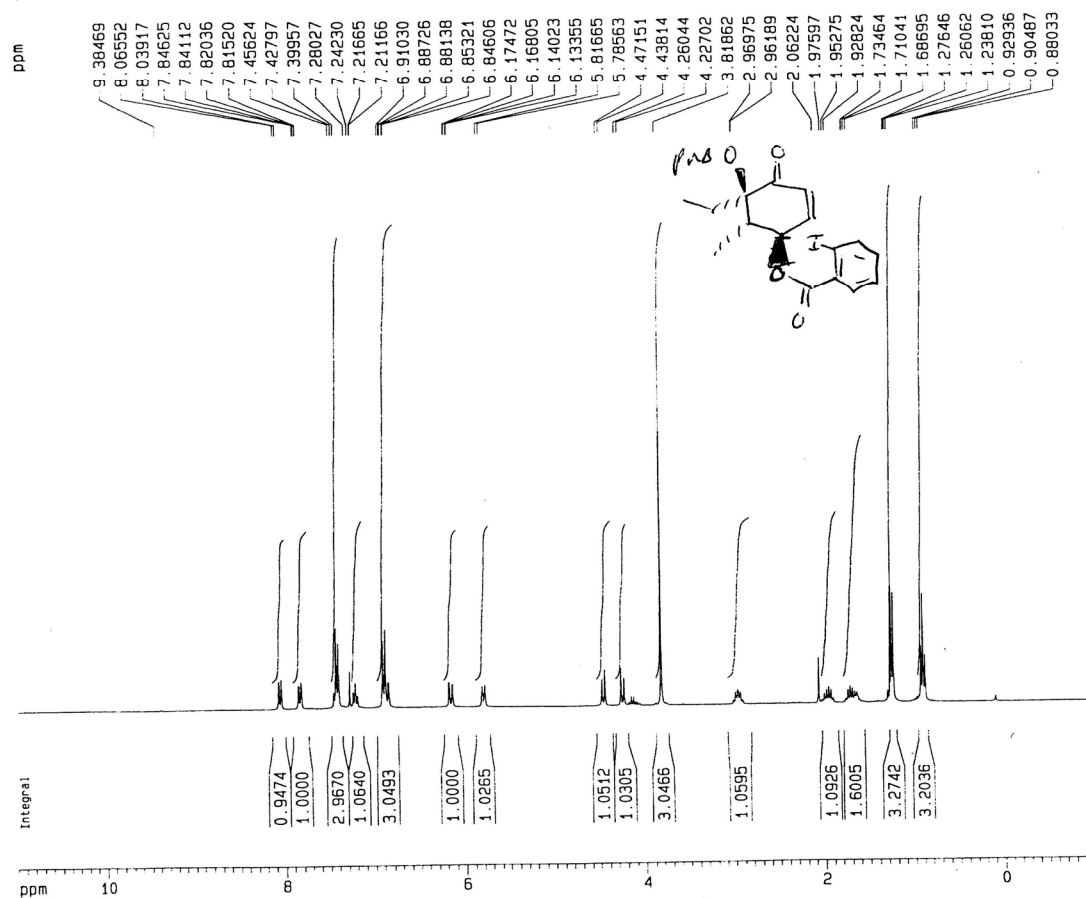
F2 - Acquisition Parameters
Date_     20120305
Time      13.06
INSTRUM   spect
PROBHD    5 mm QNP 1H/15
PULPROG   zgpg30
TD        32768
SOLVENT   CDCl3
NS        353
DS        4
SWH        21645.021 Hz
FIDRES     0.660554 Hz
AQ         0.7569908 sec
RG         8192
DM         23.100 usec
DE         6.00 usec
TE         296.9 K
D1         0.50000000 sec
d11        0.03000000 sec
DELTA     0.40000001 sec
TDO       1

===== CHANNEL f1 =====
NUC1       13C
P1         6.50 usec
PL1        -3.00 dB
SFO1       90.5638160 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      110.00 usec
PL2        -1.00 dB
PL12       15.00 dB
PL13       16.10 dB
SFO2       360.1314405 MHz

F2 - Processing parameters
SI         32768
SF         90.5547720 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
    
```

57 ¹H NMR



Current Data Parameters
NAME brs_5_19_12
EXPNO 1
PROCNO 1

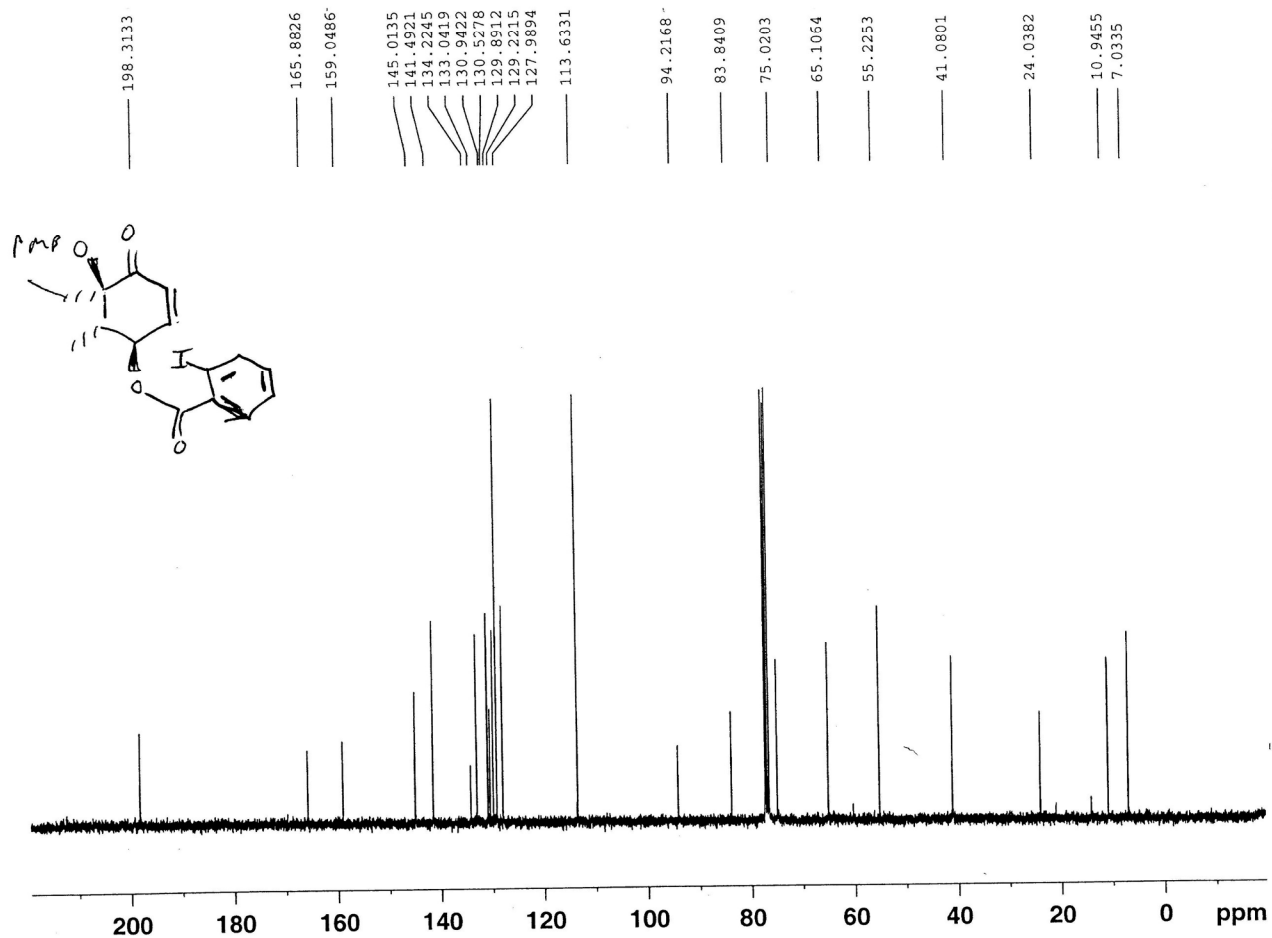
F2 - Acquisition Parameters
Date_ 20120519
Time 14.35
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 362
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 10.10 usec
PL1 -6.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 11.000 ppm
F1 3301.43 Hz
F2P -1.000 ppm
F2 -300.13 Hz
PPMCM 0.60000 ppm/cm
HZCM 180.07800 Hz/cm

57 ¹³C NMR



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Current Data Parameters
NAME      brs_5_19_12
EXPNO     3
PROCNO    1

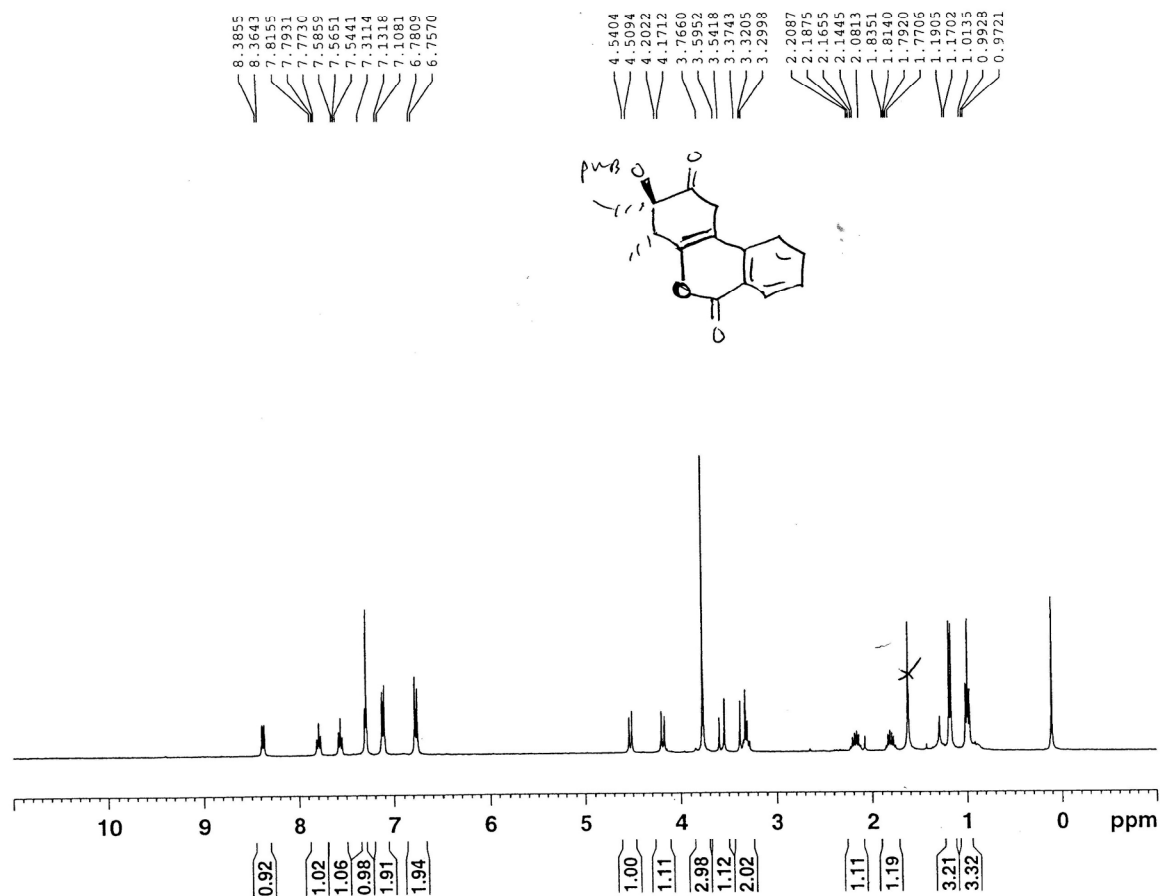
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Time      16.15
INSTRUM    spect
PROBHD     5 mm QNP 1H/15
PULPROG    zgpg30
TD         32768
SOLVENT    CDCl3
NS         1584
DS         4
SWH         21645.021 Hz
FIDRES      0.660554 Hz
AQ          0.7569908 se
RG          14596.5
DW          23.100 us
DE          6.00 us
TE          297.4 K
D1          0.50000000 se
d11         0.03000000 se
DELTA      0.40000001 se
TD0         1

===== CHANNEL f1 =====
NUC1        13C
P1          6.50 us
PL1         -3.00 dB
SFO1        90.5638160 MHz

===== CHANNEL f2 =====
CPDPRG2     waltz16
NUC2         1H
PCPD2       110.00 us
PL2         -1.00 dB
PL12        15.00 dB
PL13        16.10 dB
SFO2        360.1314405 MHz

F2 - Processing parameters
SI          32768
SF          90.5547691 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
    
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58 ¹H NMR



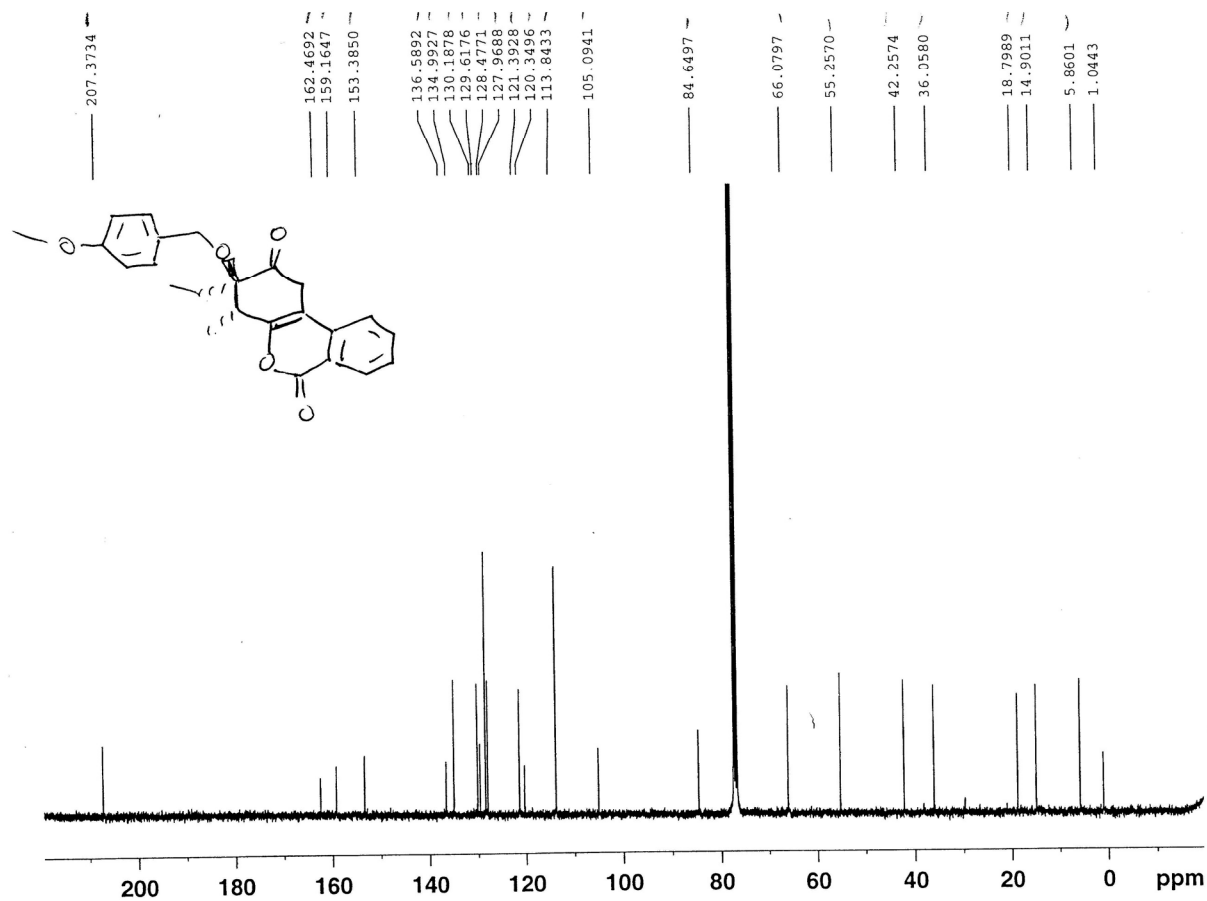
Current Data Parameters
NAME brs_7_8_12
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
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Time 14.30
INSTRUM spect
PROBHD 5 mm QNP 1H/15
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 7440.476 Hz
FIDRES 0.227065 Hz
AQ 2.2020595 sec
RG 1024
RW 67.200 use
DE 6.00 use
TE 295.4 K
D1 1.00000000 sec
TD0 1

***** CHANNEL f1 *****
NUC1 1H
P1 13.00 use
PL1 -3.00 dB
SFO1 360.1322240 MHz

F2 - Processing parameters
SI 32768
SF 360.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

58 ¹³C NMR



```

Current Data Parameters
NAME      brs_7_8_12
EXPNO     7
PROCNO    1

F2 - Acquisition Parameters
Date_     20120707
Time      22.27
INSTRUM   spect
PROBHD    5 mm QNP 1H/15
PULPROG   zgpg30
TD         32768
SOLVENT   CDCl3
NS         27000
DS         4
SWH        21645.021 Hz
FIDRES     0.660554 Hz
AQ         0.7569908 sec
RG         4195.2
DW         23.100 use
DE         6.00 use
TE         295.9 K
D1         0.50000000 sec
d11        0.03000000 sec
DELTA     0.40000001 sec
TD0        1

===== CHANNEL f1 =====
NUC1       13C
P1         6.50 use
PL1        -3.00 dB
SFO1       90.5638160 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      110.00 use
PL2        -1.00 dB
PL12       15.00 dB
PL13       16.10 dB
SFO2       360.1314405 MHz

F2 - Processing parameters
SI         32768
SF         90.5547610 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
    
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