

Supplementary Information

**“Intramolecular Cyclization Manifolds of 4-Alkyl Pyridines Bearing
Ambiphilic Side Chains: Construction of Spirodihydropyridines or Benzylic
Cyclization via Anhydrobase Intermediates”**

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Contents:

X-Ray crystal structure of 37	S2
ORTEP plot of 37	S3
¹ H and ¹³ C NMR spectra for all new compounds	S4

Figure S1. X-Ray crystal structure of anhydrobase **37**.

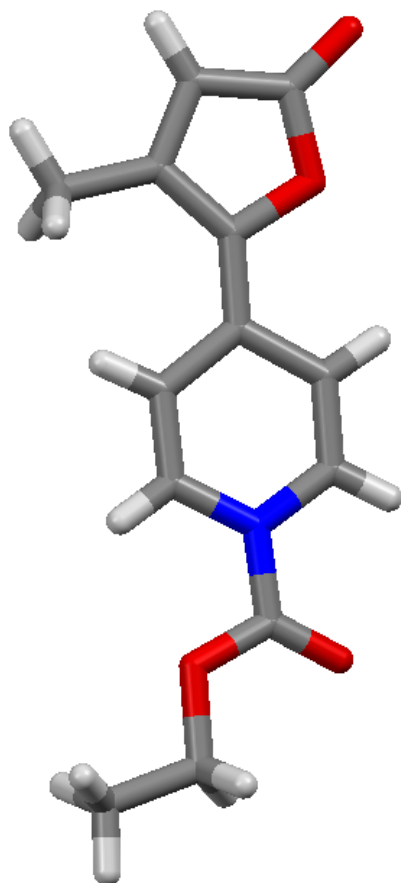
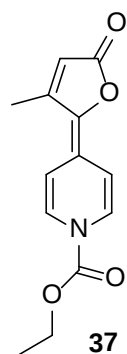
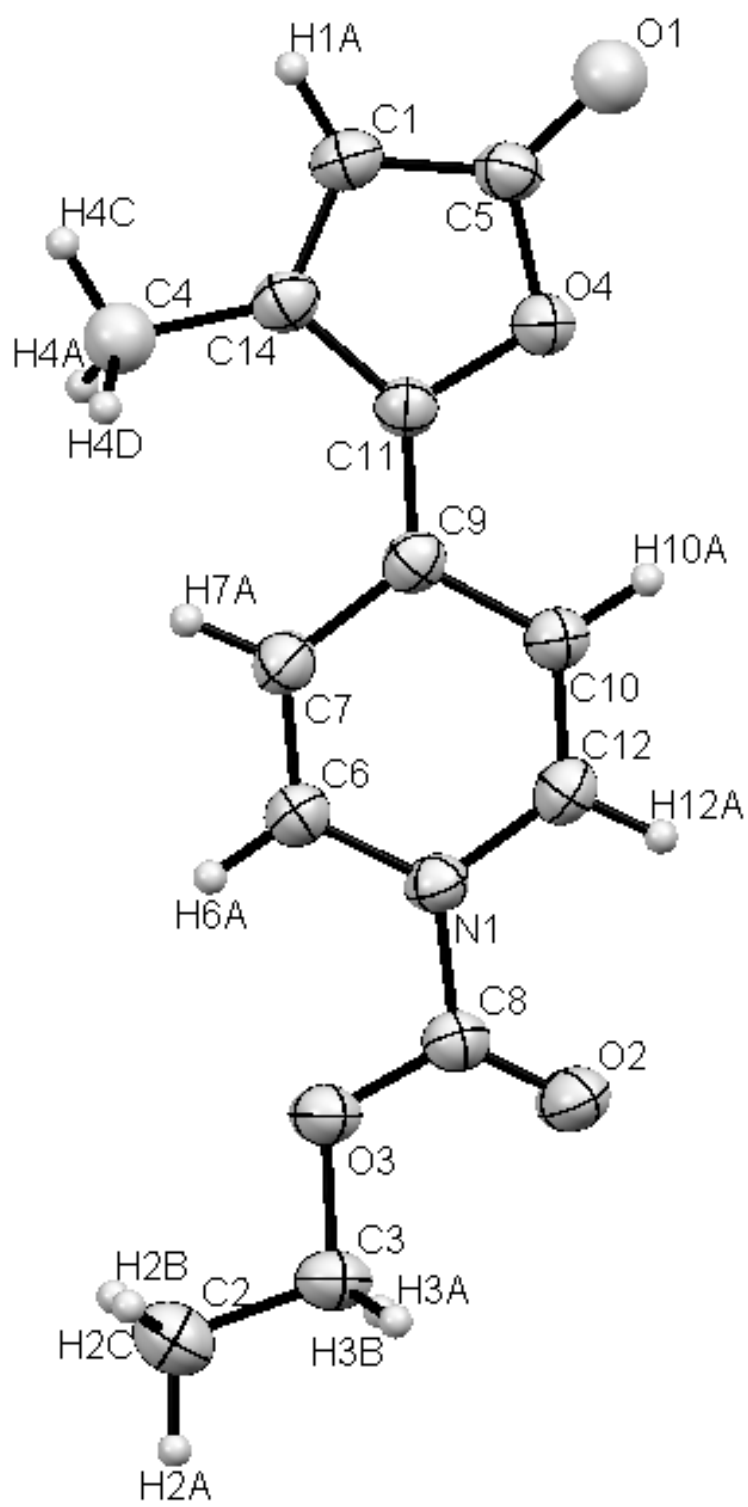
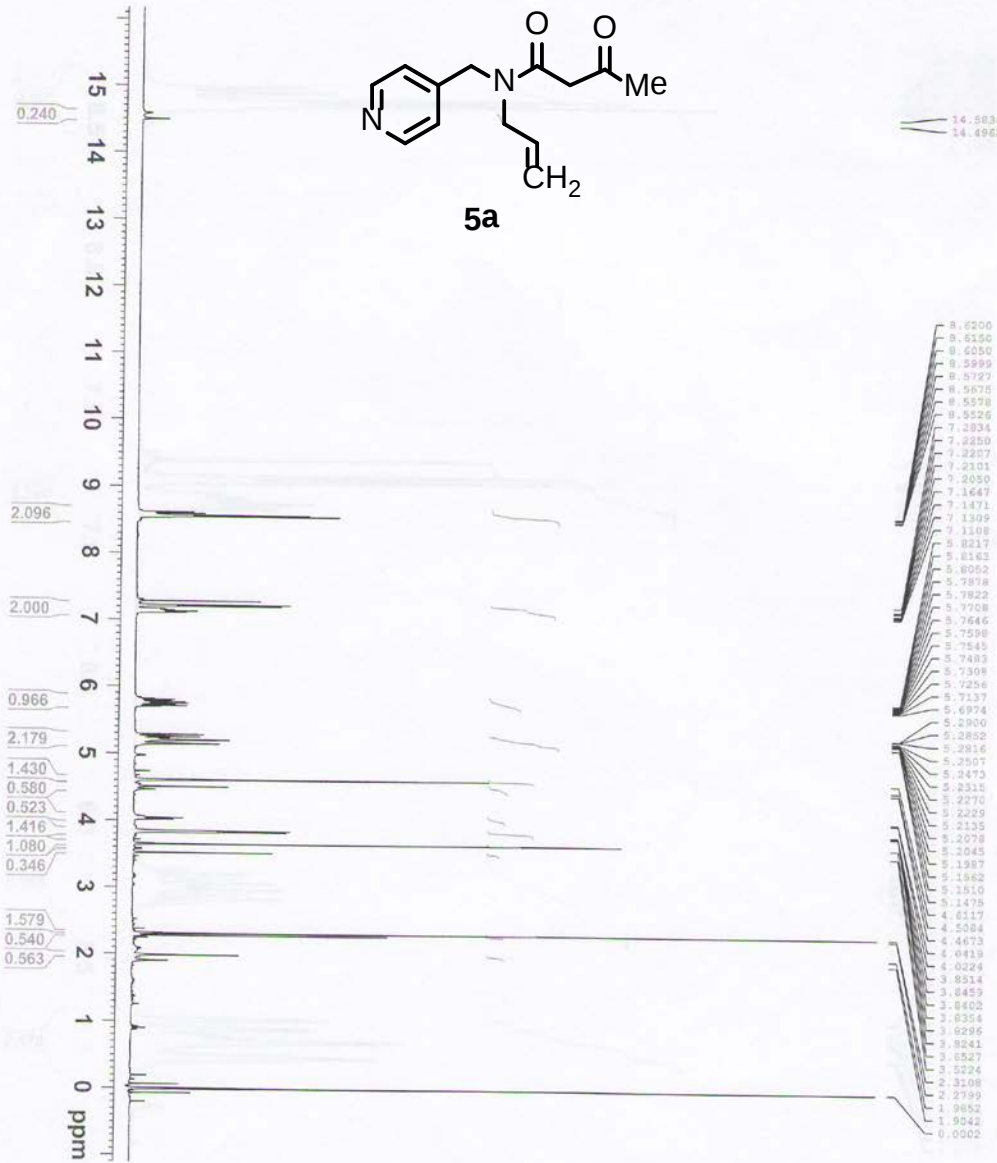
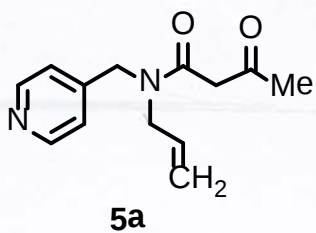


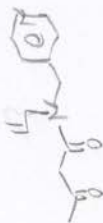
Figure S2. ORTEP Plot of 37.

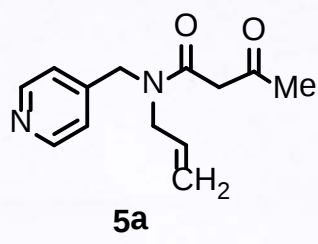
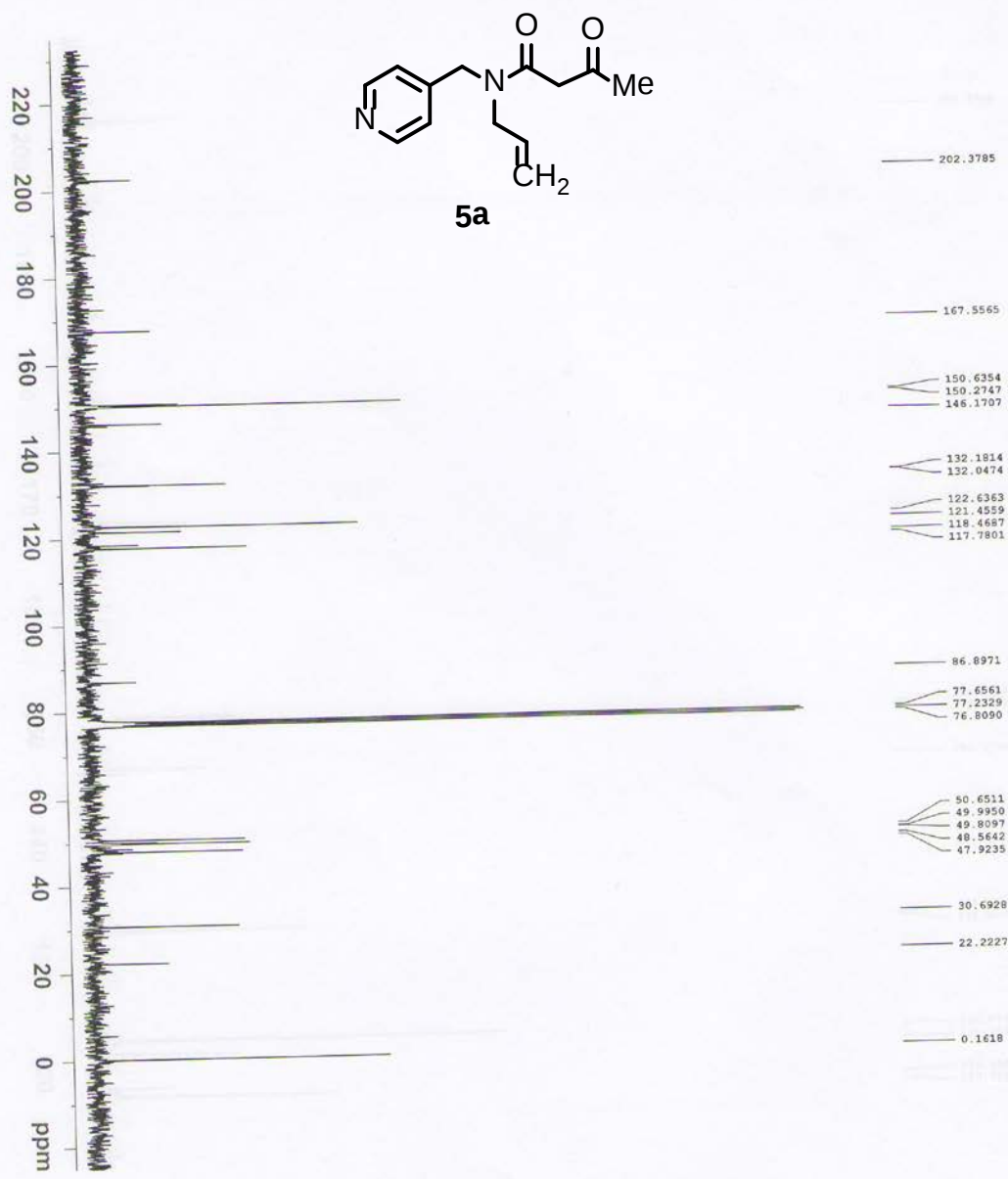


1H SGP04-27-



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 TD : 65536
 SFO : 500.136055
 AQ : 1.00
 FIDRES : 0.182939 Hz
 AQ : 2.7325011 sec
 RG : 327.68
 DQ : 8.244011 usec
 DE : 6.50 usec
 TE : 298.2 K
 D1 : 2.00000000 sec
 TDO : 1
 CHANNEL F1
 NUC1 : 1H
 P1 : 9.00 usec
 PL1 : 0.50 dB
 SFO1 : 300.1324012 MHz
 F2 - Processing parameters
 SI : 16384
 SF : 300.1439984 MHz
 WDW : EM
 SSB : 0
 LB : 0.00 Hz
 GB : 0
 PC : 1.00





13C SGP04-27-

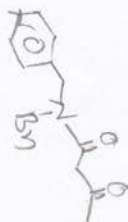


Current Data Parameters
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EXPNO: 2
PROCNO: 1
F2 - Acquisition Parameters
Date_ : 20131013
Time : 15.15
INSTRUM : spect
PROBHD : 5 mm QNP 1H/1
PULPROG : zgpg30
TD : 65536
FIDRES : 0.220
SOLVENT : CDCl3
NS : 16
DS : 4
SWH : 16600.000 Hz
F2 - 1H Parameters
AQ : 1.6417269 sec
RG : 327.5
SF : 400.1464000 MHz
DE : 6.50 dB
TE : 300.2 K
D1 : 1.00000000 sec
d11 : 0.03000000 sec
TDO : 1
===== CHANNEL f1 =====
NUC1 : 13C
P1 : 12.00 sec
PL1 : 0.00 dB
SFO1 : 75.480253 MHz
===== CHANNEL f2 =====
NAME: SGP04-27-
EXPNO: 2
PROCNO: 1
F2 - Acquisition Parameters
Date_ : 20131013
Time : 15.15
INSTRUM : spect
PROBHD : 5 mm QNP 1H/1
PULPROG : zgpg30
TD : 65536
FIDRES : 0.220
SOLVENT : CDCl3
NS : 16
DS : 4
SWH : 16600.000 Hz
F2 - 13C Parameters
AQ : 1.6417269 sec
RG : 327.5
SF : 101.6261260 MHz
DE : 6.50 dB
TE : 300.2 K
D1 : 1.00000000 sec
d11 : 0.03000000 sec
TDO : 1
===== CHANNEL f3 =====
NUC3 : 1H
P3 : 0.00 sec
PL3 : 0.00 dB
SFO3 : 400.1464000 MHz
===== CHANNEL f4 =====
NAME: SGP04-27-
EXPNO: 2
PROCNO: 1
F4 - Acquisition Parameters
Date_ : 20131013
Time : 15.15
INSTRUM : spect
PROBHD : 5 mm QNP 1H/1
PULPROG : zgpg30
TD : 65536
FIDRES : 0.220
SOLVENT : CDCl3
NS : 16
DS : 4
SWH : 16600.000 Hz
F4 - 1H Parameters
AQ : 1.6417269 sec
RG : 327.5
SF : 400.1464000 MHz
DE : 6.50 dB
TE : 300.2 K
D1 : 1.00000000 sec
d11 : 0.03000000 sec
TDO : 1

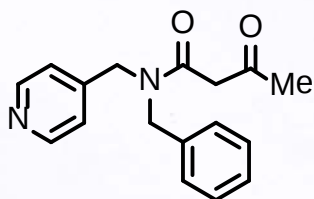




Current Data Parameters	
NAME	SEP04-19-rxn-
EXPNO	1
PROCNO	1
F2 - Acquisition Parameters	
Date_	20110507
Time	16.55
INSTRUM	5 mm QNP 1H/13
PROBHD	5mm
PULPROG	zgpg30
TD	32768
DELTA	0.00100000
SOLVENT	CDCl3
NS	2
DS	1
SWH	5595.204 Hz
FIDRES	0.182959 Hz
AQ	2.132901 sec
RG	32.400
DM	6.50 usec
DE	288.2 K
TE	2.00000000 sec
D1	1
TDO	1
CHANNEL F1 1H	
NUC1	1H
PC1	9.00 usec
FL1	-0.50 dB
SE1	300.152401 MHz
F2 - Processing Parameters	
SI	32768
WDW	EM
SSB	300.150002 MHz
LB	0.00 Hz
GB	0
PC	1.00



¹³C SGP04-19-rxn2-



5b

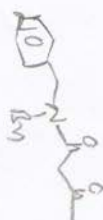


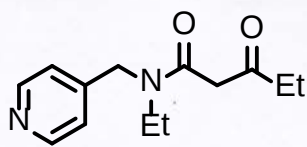
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EXPNO 2
PROCNO 1
Date_ 20110207
Time 12:07:01
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NUC1 13C
NUC2 1H
F2 199.00 MHz
F1 500.13 MHz
AQ 1.6417269 sec
RG 655.36
DE 6.50 usec
TE 298.2 K
D1 1.30000000 sec
d11 0.30000000 sec
T0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL 0.00 dB
SFO1 75.480121 MHz

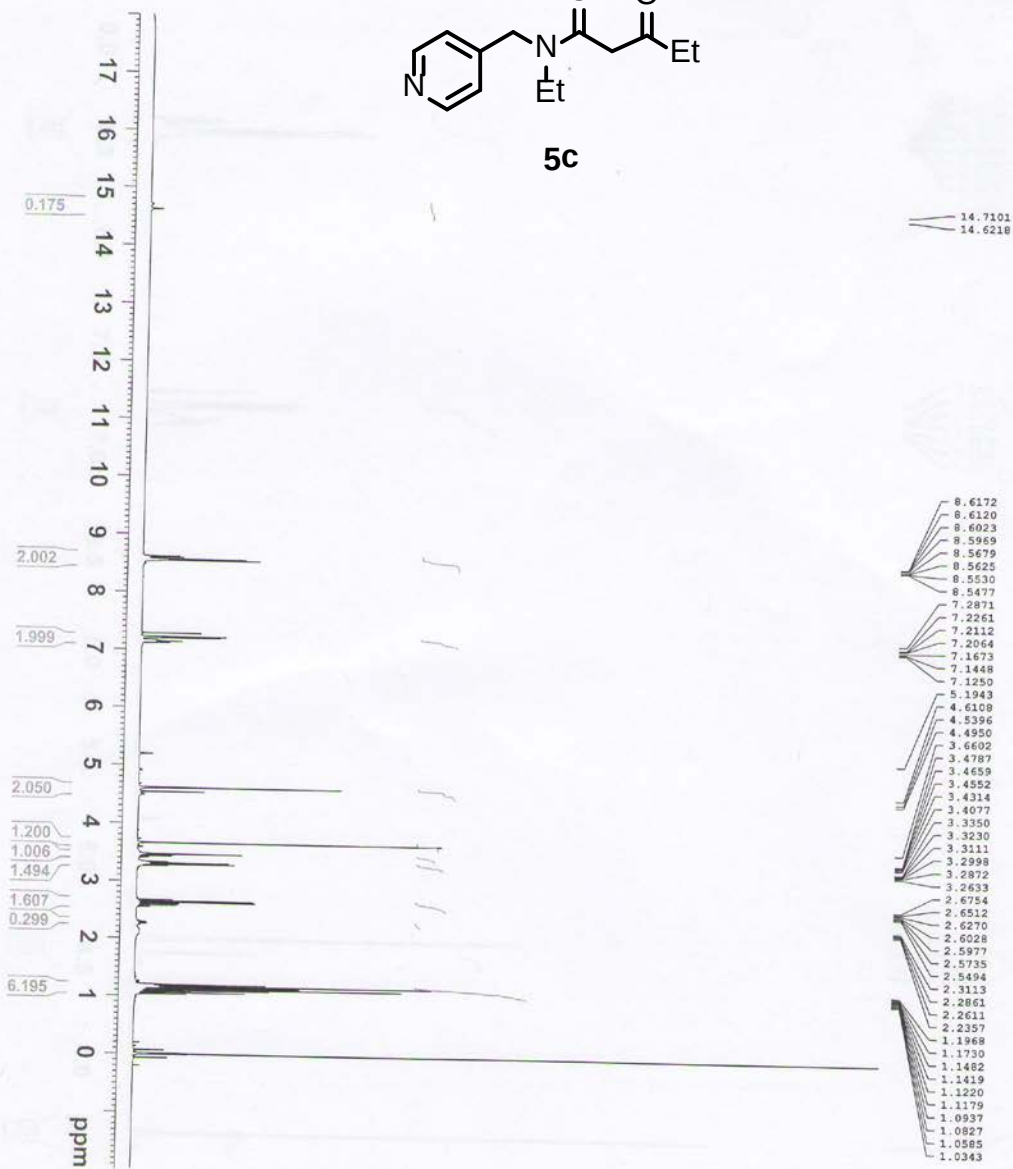
===== CHANNEL f2 =====
NUC2 1H
P2 12.50 usec
PL 0.00 dB
SFO2 500.13006 MHz

===== Processing parameters =====
SI - Processing parameters
SI 32768
SF 500.13006 MHz
WDW 0
SSB 0
GB 0
PC 1.40





5c



1H SGP04-S8

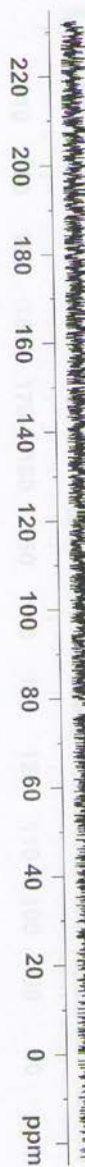
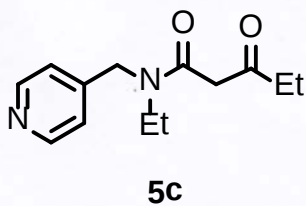


Current Data Parameters
NAME SGP04-S8
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110507
Time 16:02
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TO SOLVENT CDCl3
NS 2
DS 2
SWH 5995.204 Hz
FIDRES 0.182359 Hz
AQ 2.7328011 sec
RG 161.3
CW 833.00 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1324012 MHz
F2 - Processing parameters
SI 16384
SF 300.1459973 MHz
WDW EM
SSB 0
GB 0
PC 1.00





13C SGP04-58

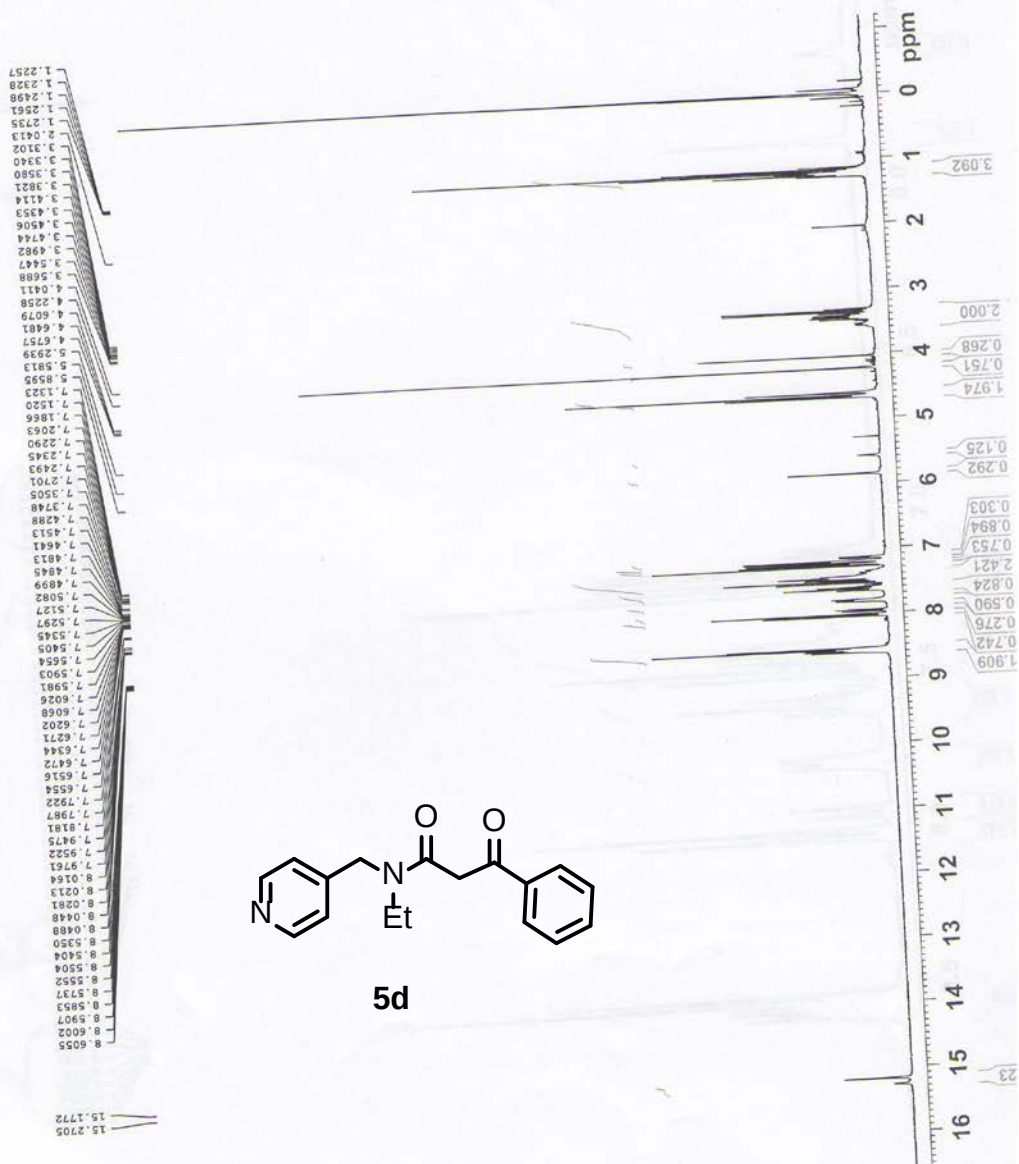


Current Data Parameters
NAME: SGP04-58
EXPNO: 2
PROCNO: 1
Date_ : 20110907
Time : 16.07
INSTRUM : spect
PROBHD : 5 mm QNP 1H/13
PULPROG : zgpg30
TD : 65536
SOLVENT : CDCl3
NS : 178
DS : 4
SWH : 19960.080 Hz
FIDRES : 0.321456 Hz
AQ : 1.1414145 sec
RG : 14946.5
DW : 29.050 usec
DE : 1.4596.5
TE : 298.2 K
D1 : 1.00000000 sec
D11 : 0.05000000 sec
TD0 : 1
===== CHANNEL f1: 13C =====
NUC1 : 13C
P1 : 8.50 usec
PL1 : 0.00 dB
SFO1 : 75.4803183 MHz
===== CHANNEL f2: 1H =====
NAME: SGP04-58
INSTRUM : spect
PROBHD : 5 mm QNP 1H/13
PULPROG : zgpg30
TD : 65536
SOLVENT : CDCl3
NS : 178
DS : 4
SWH : 19960.080 Hz
FIDRES : 0.321456 Hz
AQ : 1.1414145 sec
RG : 14946.5
DW : 29.050 usec
DE : 1.4596.5
TE : 298.2 K
D1 : 1.00000000 sec
D11 : 0.05000000 sec
TD0 : 1
===== CHANNEL f3: 1H =====
NAME: SGP04-58
INSTRUM : spect
PROBHD : 5 mm QNP 1H/13
PULPROG : zgpg30
TD : 65536
SOLVENT : CDCl3
NS : 178
DS : 4
SWH : 19960.080 Hz
FIDRES : 0.321456 Hz
AQ : 1.1414145 sec
RG : 14946.5
DW : 29.050 usec
DE : 1.4596.5
TE : 298.2 K
D1 : 1.00000000 sec
D11 : 0.05000000 sec
TD0 : 1

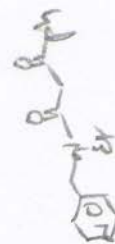


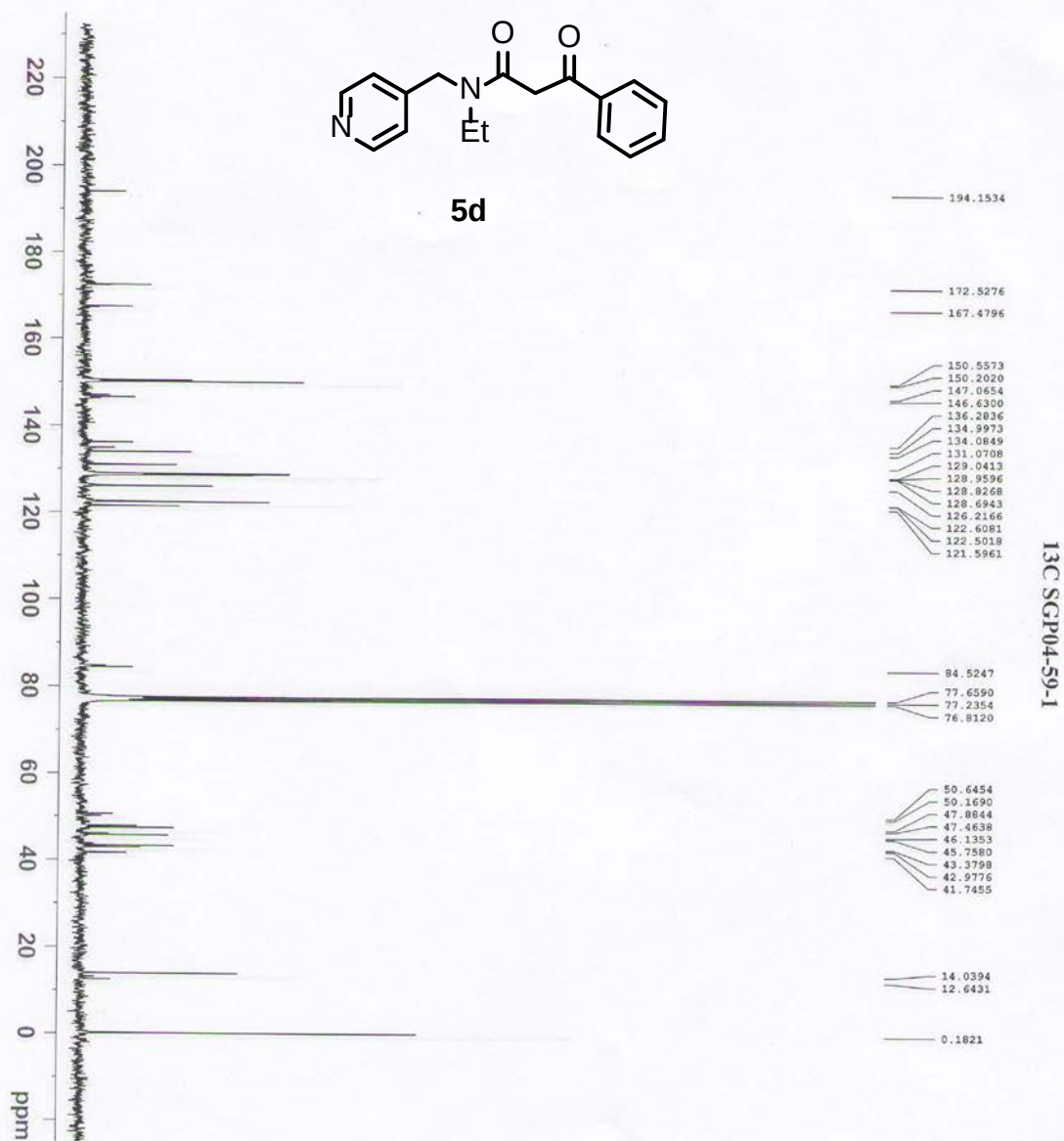


1H SGP04-59-1



Current Data Parameters
SGP04-59-1
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110507
Time_ 18.08
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
FIDRES 0.3980
AQ 2.032
RG 327.6
DE 83.400 usec
TE 300.2 K
DI 2.00000000 sec
TDO 1
CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 300.1500024 MHz
SF 300.1500024 MHz
WDW EM
SSB 0
GB 0
PC 1.00





BRUKER

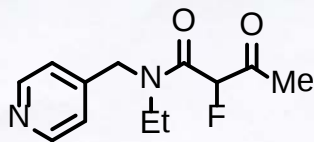
Current Data Parameters
 NAME: SGP04-59-1
 PROBHD: 5 mm QNP 1H/13
 PULPROG: zgpg30
 F1: 125.760 MHz
 F2: 101.626 MHz
 DS: 4
 SWH: 19999.316 Hz
 FIDRES: 0.190467 Hz
 AQ: 1.6117269 sec
 SFO: 500.136050 MHz
 DW: 25.050 usec
 DE: 5.50 usec
 TE: 300.2 K
 D1: 1.00000000 sec
 d11: 0.05000000 sec
 TDO: 1

===== CHANNEL f1 =====
 NUC1: 13C
 P1: 12.00 usec
 PL1: 0.00 dB
 SFO1: 101.626125 MHz

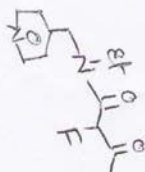
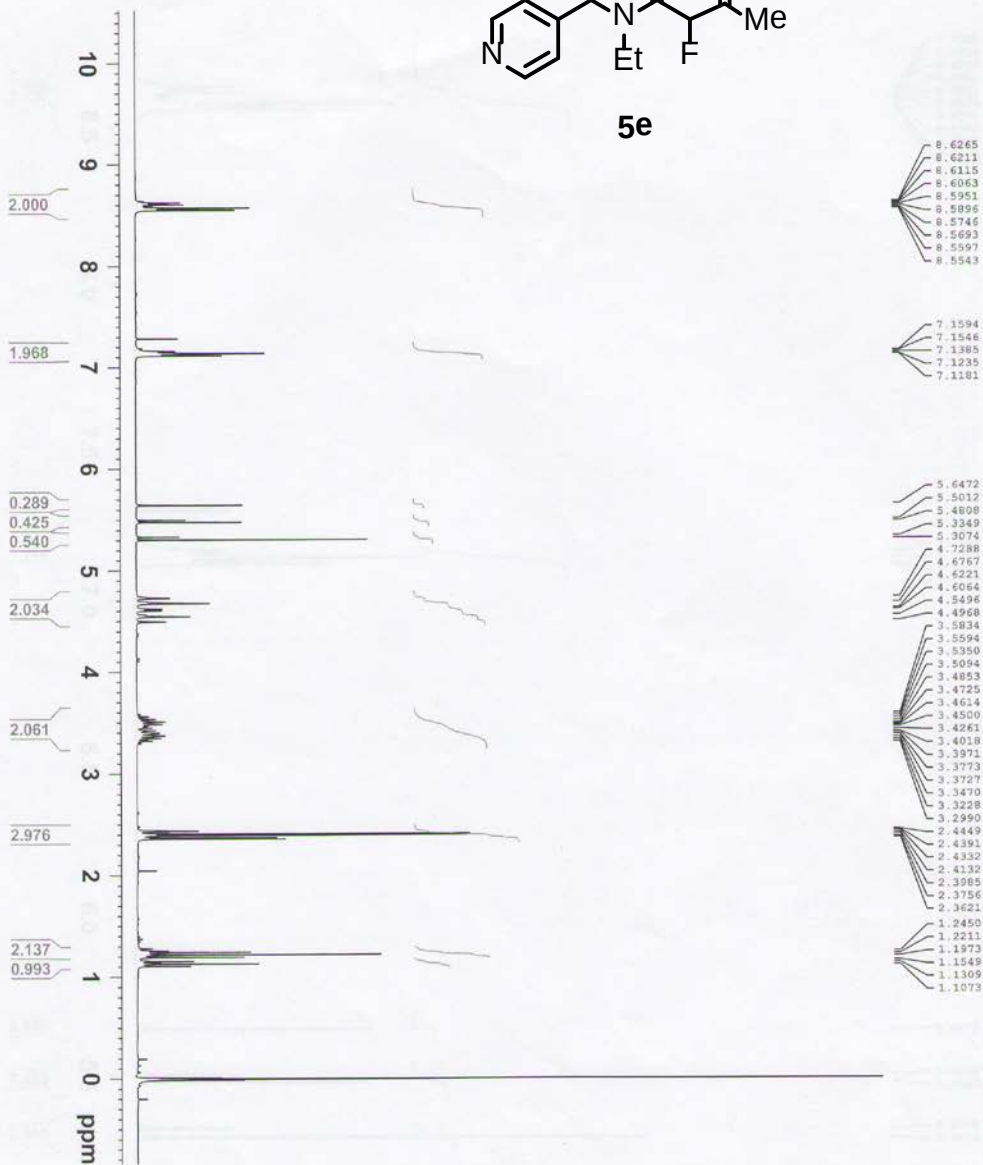
===== CHANNEL f2 =====
 NUC2: 1H
 P2: 12.00 usec
 PL2: 0.00 dB
 SFO2: 500.136050 MHz

F2 - Processing parameters
 SI: 32768
 SF: 500.136050 MHz
 WDW: EM
 SSB: 0
 GB: 0
 PC: 1.49

1H SGP04-159-4-py-n-et-c-f-Ac



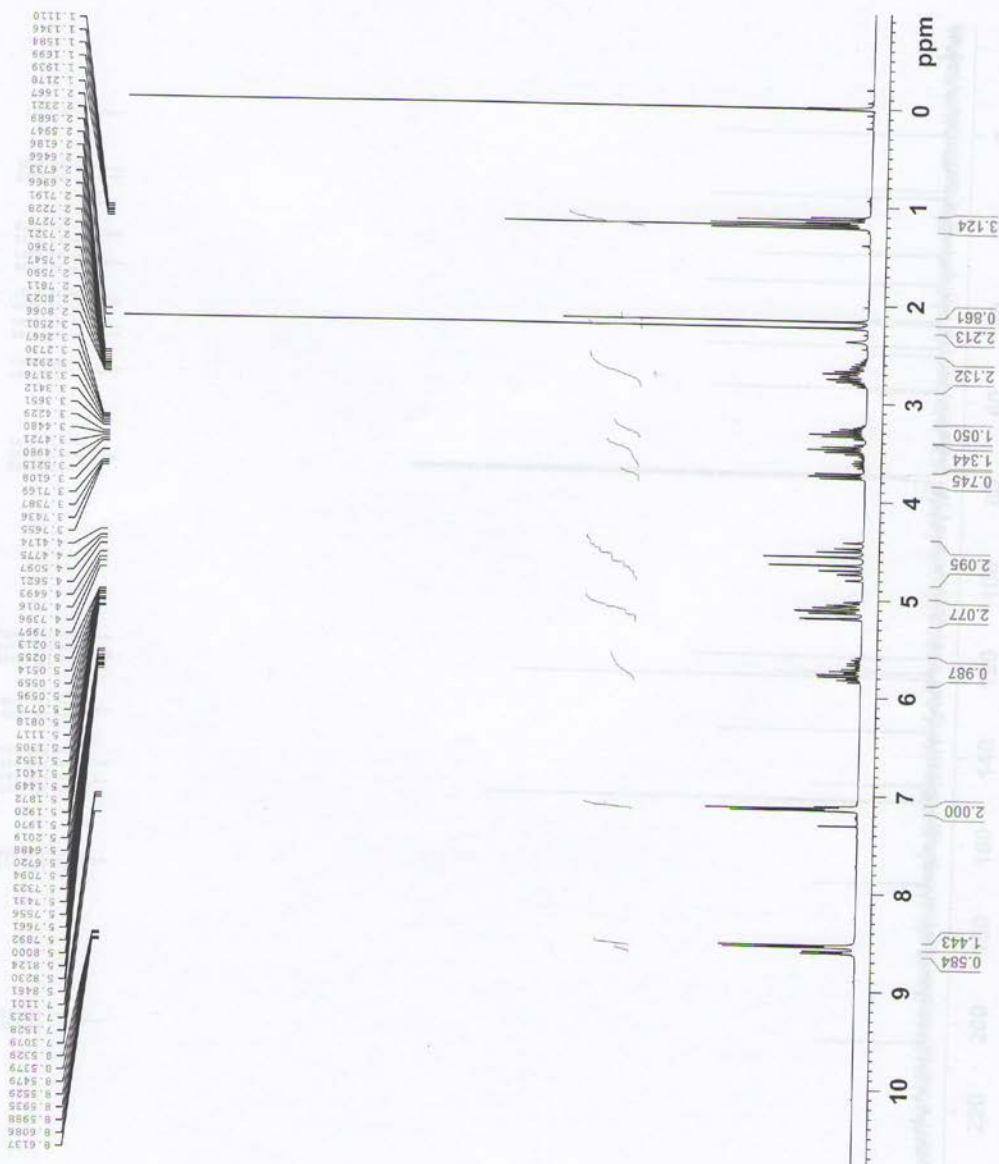
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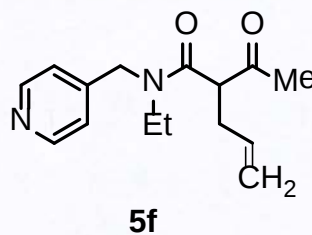
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EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20071113
Time 11:53
INSTRUM spect
PROBHD 5 mm QNP
PULPROG zgpg30
TD 32768
SOLVENT py
NS 8
DS 8
SWH 5985.20 Hz
FIDRES 0.18259 Hz
AQ 2.7329511 sec
RG 83.400 usec
DE 6.50 usec
TE 300.2 K
D1 2.0000000 sec
T2 1.00
===== CHANNEL f1 =====
NUC1 15N
P1 12.00 usec
PL1 -9.50 dB
F1 300.1524012 MHz
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 32768
SF 300.1559580 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

publication

1H SGP05-166



Current Data Parameters
NAME SGP05-166
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100719
Time 12.59
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
AQ 32768
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
RG 2.7329011 sec
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
TDO 2.00000000 sec
CHN1 CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499911 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





Current Data Parameters
NAME: SGP05-166
EXPNO: 2
PROCNO: 1

F2 - Acquisition Parameters

Date_ Time: 20050513 12.09

Time: 20.00

INSTRUM: spect

PROBHD: 5 mm QNP 1H/13

PULPROG: zgpg30

PCPDPRG2: none

PCPDPRG3: none

PCPDPRG4: none

PCPDPRG5: none

PCPDPRG6: none

PCPDPRG7: none

PCPDPRG8: none

PCPDPRG9: none

PCPDPRG10: none

PCPDPRG11: none

PCPDPRG12: none

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PCPDPRG41: none

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PCPDPRG92: none

PCPDPRG93: none

PCPDPRG94: none

PCPDPRG95: none

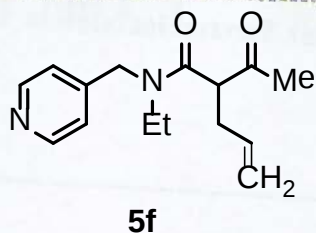
PCPDPRG96: none

PCPDPRG97: none

PCPDPRG98: none

PCPDPRG99: none

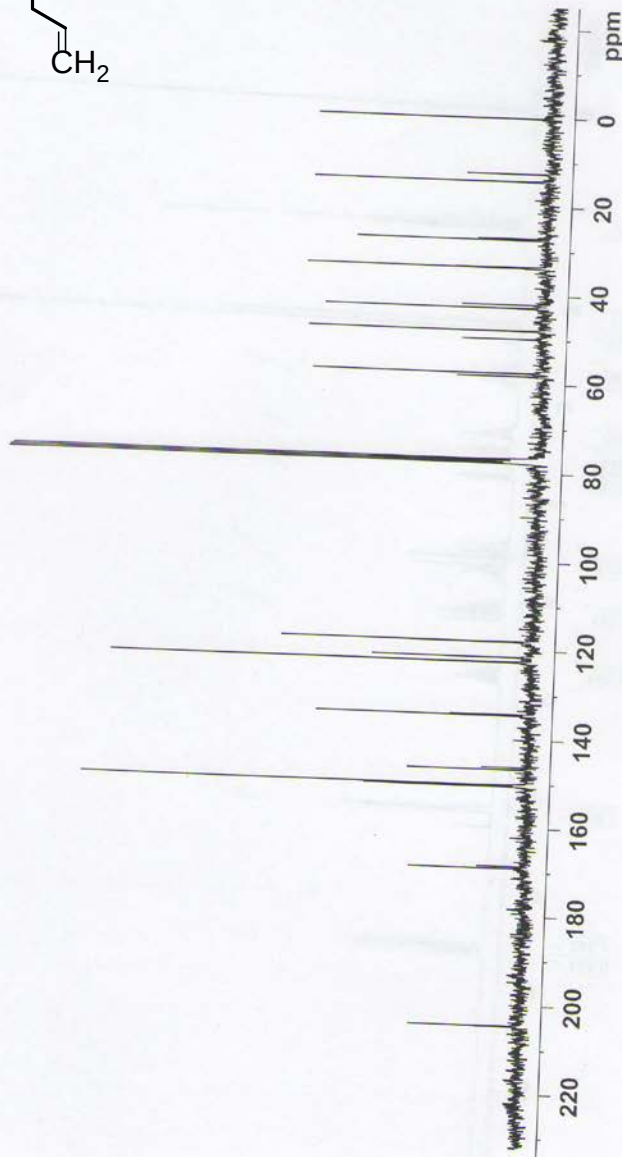
PCPDPRG100: none



5f

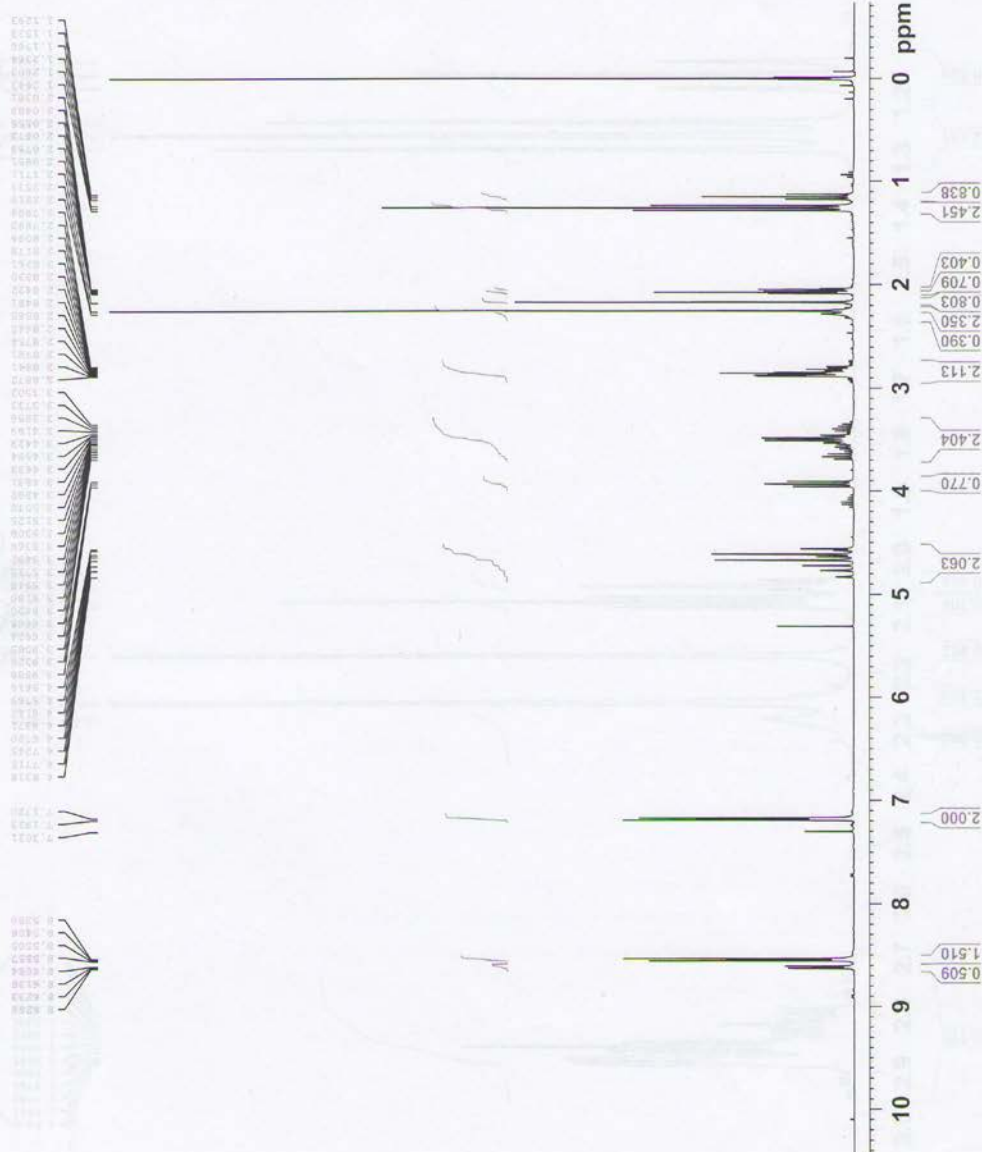


13C SGP05-166

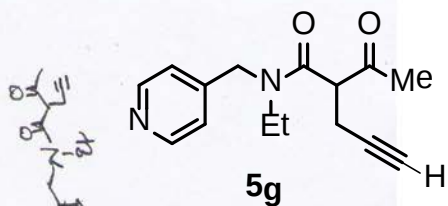




1H SGP05-167



Current Data Parameters
NAME SGP05-167
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date 20100719
Time 13.14
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.32250 Hz
AQ 2.7329011 sec
RG 101.6
DM 83.400 usec
DE 6.50 usec
TE 299.2 K
D1 2.0000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 32768
SF 300.149979 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



13CSCP05-167



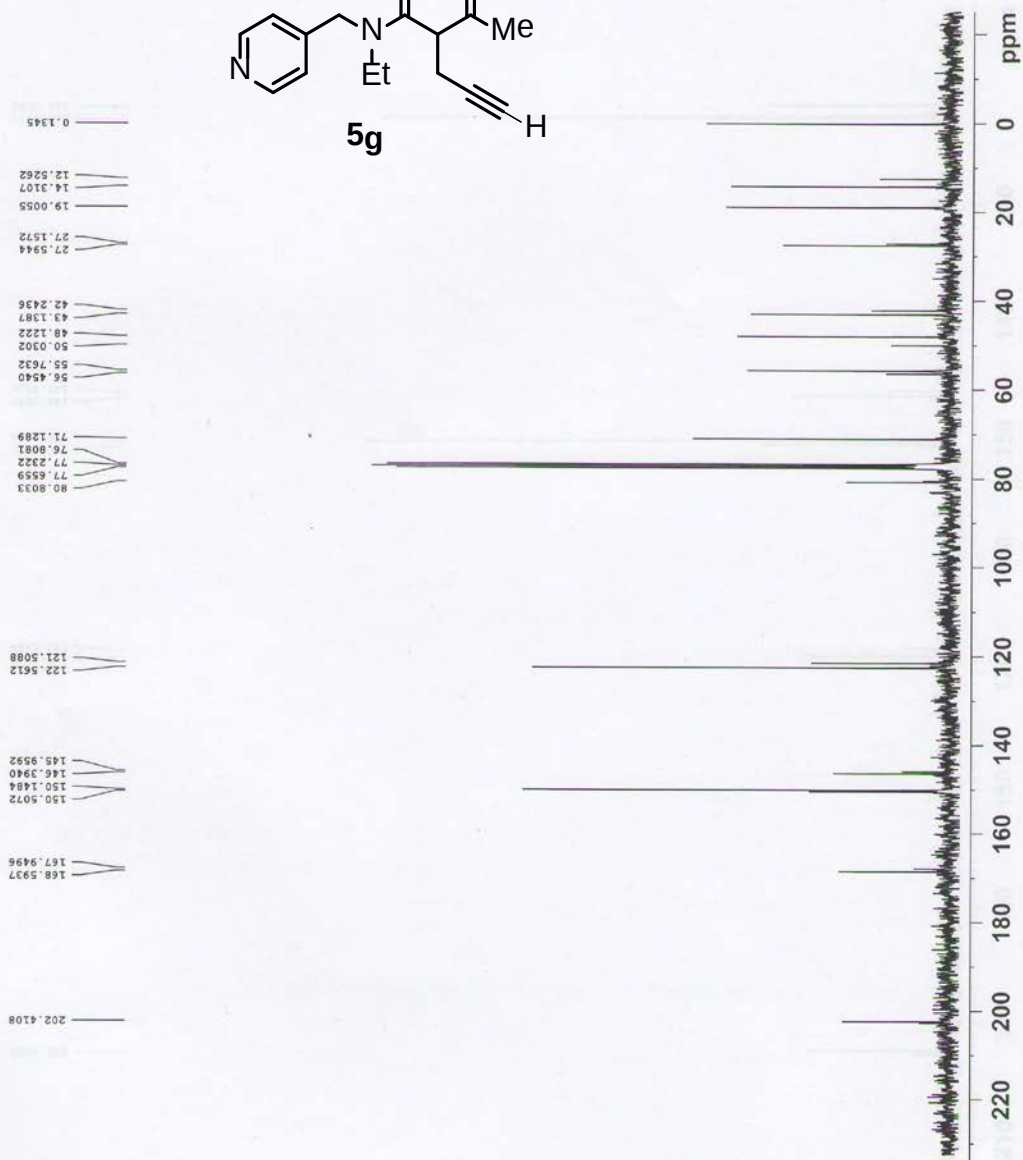
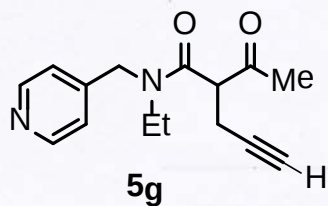
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EXPNO: 2
PROCNO: 1

F2 - Acquisition Parameters
Date_ : 20160711
Time : 13.21
INSTRUM : spect
PROBHD : 5 mm QNP
PULPROG : zgpg30
TD : 65536
SOLVENT : CHL3
NS : 128
DS : 16
SWH : 18660.16 Hz
FIDRES : 0.004500 Hz
AQ : 1.6417269 sec
RG : 327.5
SI : 327.5
SF : 125.760328 MHz
WDW : EM
SSB : 0
LB : 3.50 Hz
GB : 0
PC : 1.40

===== CHANNEL f1 =====
NUC1 : 13C
P1 : 9.00 usec
PL1 : 0.00 dB
SFO1 : 75.4803253 MHz

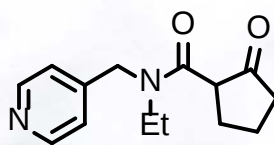
===== CHANNEL f2 =====
MAGNET : mact1g
SFO2 : 87.00 usec
PL2 : 0.00 dB
SFO2 : 300.1512004 MHz

F2 - Processing parameters
SI : 327.5
SF : 75.477775 MHz
WDW : EM
SSB : 0
LB : 3.50 Hz
GB : 0
PC : 1.40

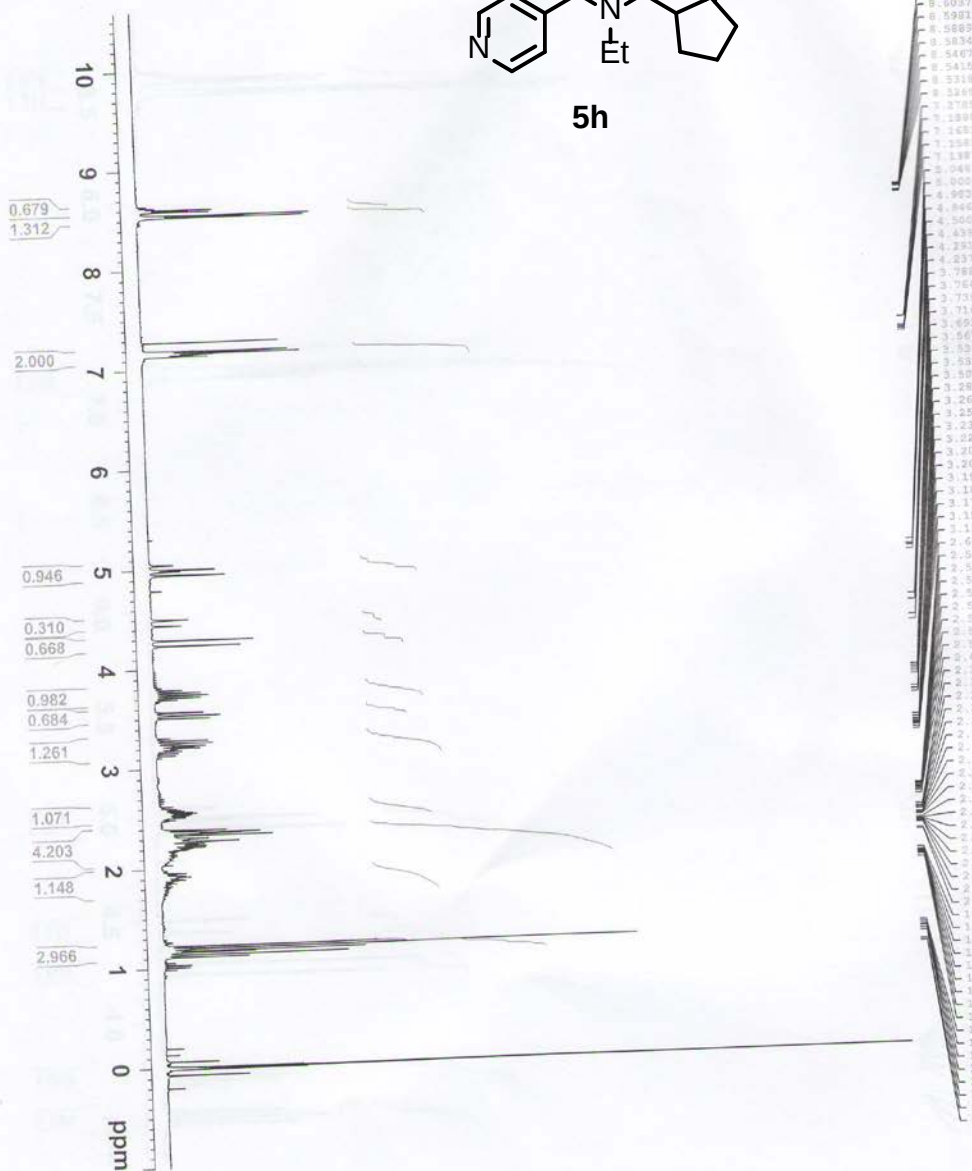




1H SGP05-184-



5h



Current Data Parameters
NAME SGP05-184-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110327
Time 14:27
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.182359 Hz
AQ 2.732971 sec
RG 327.68
WM 83.460 usec
TE 298.2 K
D1 2.00000000 sec
TDO 1
CHNCL f1
NUC1 1H
P1 9.00 usec
PL1 -9.00 dB
PL2 300.1524012 MHz
SFO1 300.1499939 MHz
P2 - Processing parameters
SI 16384
SF 300.1499939 MHz
WDW EM
SSB 0
GB 0
PC 1.00

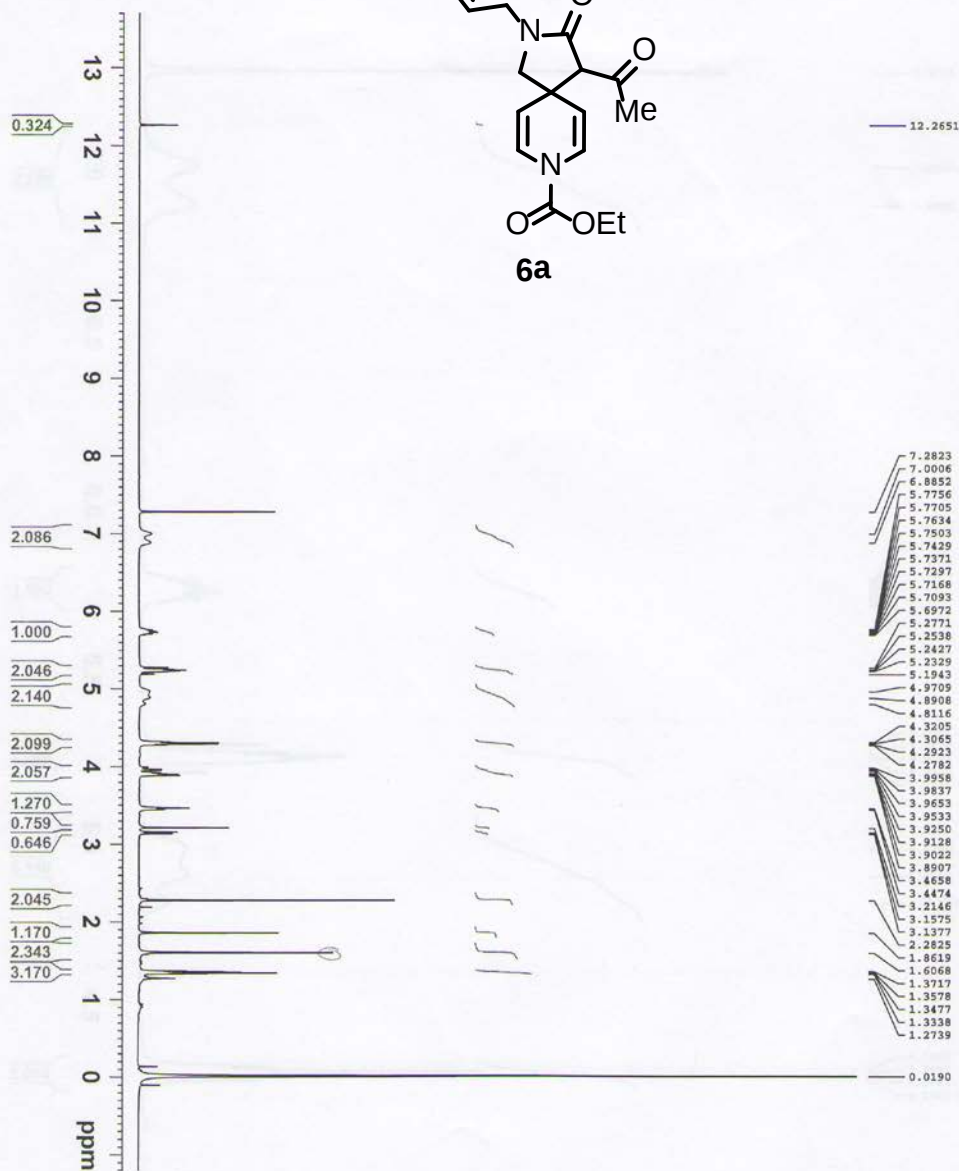
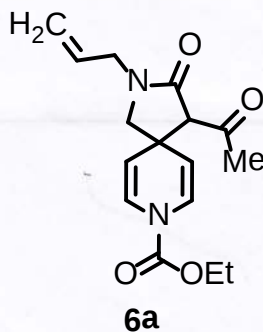




13C SGP05-184-

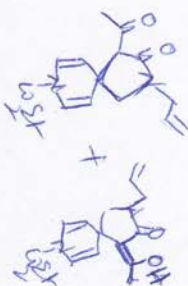


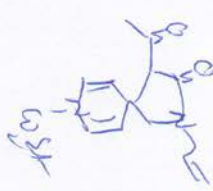
SGP_04-35



NAME SGP_04-35
EXPNO 1
PROCNO 1
Date_ 20110426
Time 20.12
INSTRUM spect
PROBHD 5 mm PABBO BH-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 10060.000 Hz
FIDRES 0.0425813 Hz
AQ 3.2769001 sec
RG 128
FW 50.000 usec
DS 6.50 usec
SS 38.000 K
D1 0.0100000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 -0.60 dB
PL1W 17.30418968 W
SFO1 500.3520014 MHz
SI 16384
SF 500.3500000 MHz
WDW EM
SSB 0
GB 1.00 Hz
PC 1.00





BRUKER

S21



1H SGP04-4-Py-N-Bn-Ac-Spiro

12.3236
12.3217

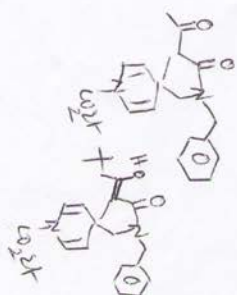
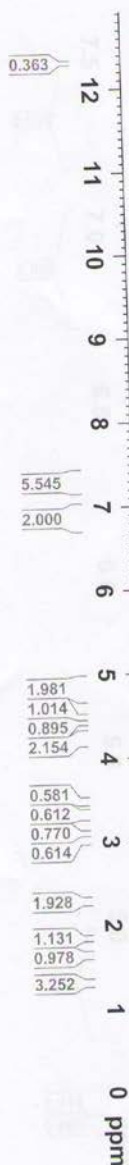
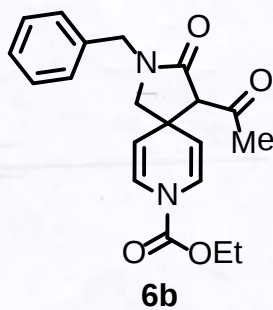
7.3779
7.3563
7.3493
7.3421
7.3374
7.3325
7.3240
7.3168
7.3117
7.3069
7.2938
7.2701
7.2666
7.2429
7.2157
6.9501
6.8273

4.6190
4.7526
4.5001
4.4810
4.4843
4.2947
4.2709
4.2472
4.2235

3.4901
3.3529
3.3190
3.1071
3.0385
3.0055

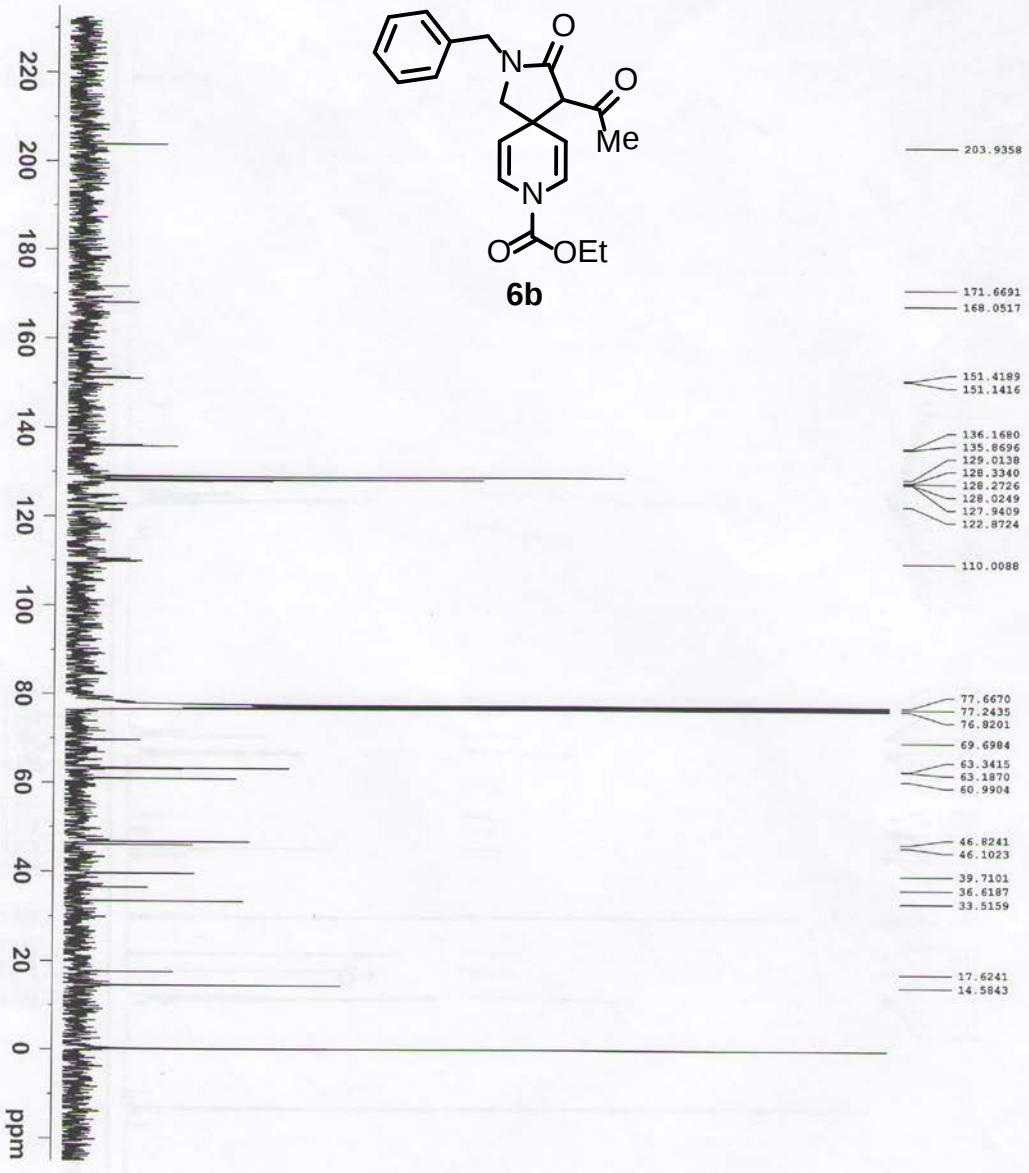
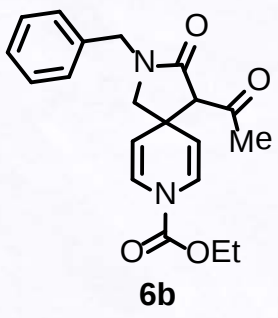
2.2849
1.8515
1.6456
1.3454
1.3345
1.3214
1.3113
1.2990
1.2874

Current Data Parameters
NAME SGP04-4-Py-N-Bn-Ac-Spiro
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20090518
Time 09:48
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.224 Hz
FIDRES 0.162014 Hz
AQ 2.152014 sec
RG 287.4
Ac 83.400 usec
DE 290.2 K
TE 290.2 K
D1 2.0000000 sec
TDS 1
===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1500000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



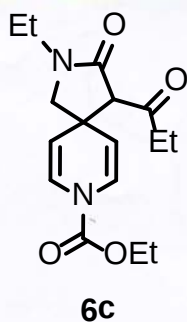
Pg #20

¹³C SGP04-4-Py-N-Bn-Ac-Spiro



Current: Data Parameters
 Name: SGP04-4-Py-N-Bn-Ac-Spiro
 Date_: 20090313
 Time: 11:15
 Instrument: 5 mm QNP 99401
 Processor: 63216
 F2 - Acquisition Parameters
 Date_: 20090313
 Time: 11:15
 Instrument: 5 mm QNP 99401
 Processor: 63216
 F2 - Processing parameters
 Date_: 20090313
 Time: 11:15
 Instrument: 5 mm QNP 99401
 Processor: 63216
 F2 - Acquisition Parameters
 Date_: 20090313
 Time: 11:15
 Instrument: 5 mm QNP 99401
 Processor: 63216
 F2 - Processing parameters
 Date_: 20090313
 Time: 11:15
 Instrument: 5 mm QNP 99401
 Processor: 63216

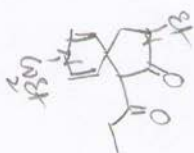
1H SGP04-88-



Current Data Parameters
NAME SGP04-88-
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100507
Time 15.25
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 8
SWH 5065.204 Hz
FIDRES 0.162359 Hz
AQ 2.7329011 sec
RG 203.2
DM 83.400 usec
DE 6.50 usec
TE 300.2 K
D1 2.00000000 sec
T100 1

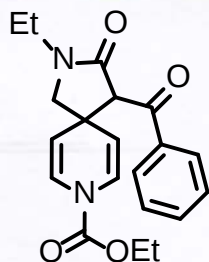
===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 32768
SF 300.1500010 MHz
WDW EM
SSB 0
LB 0
GB 0
PC 1.00



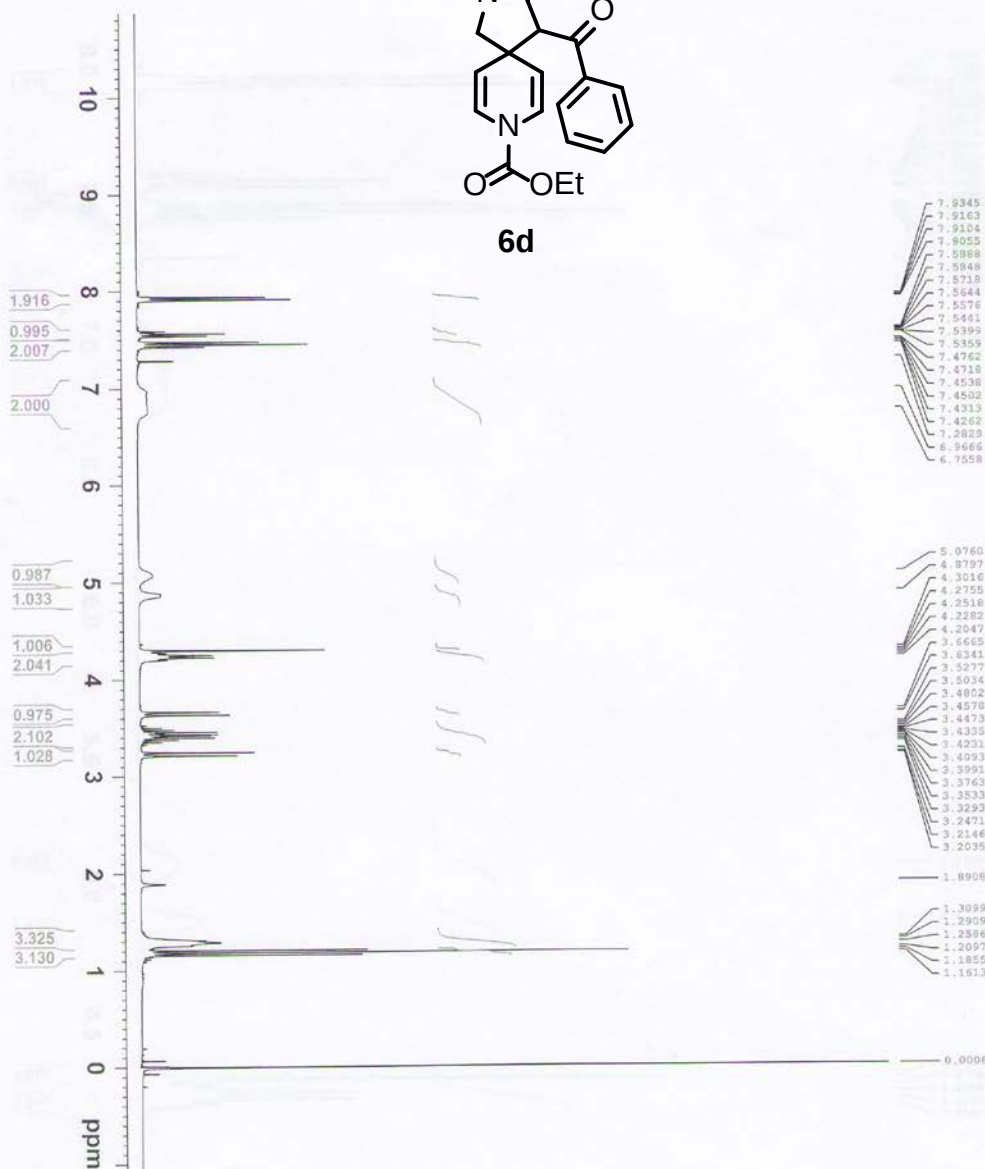
[illegible]



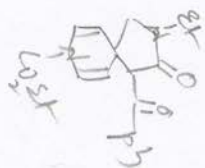
1HSGP04-89-

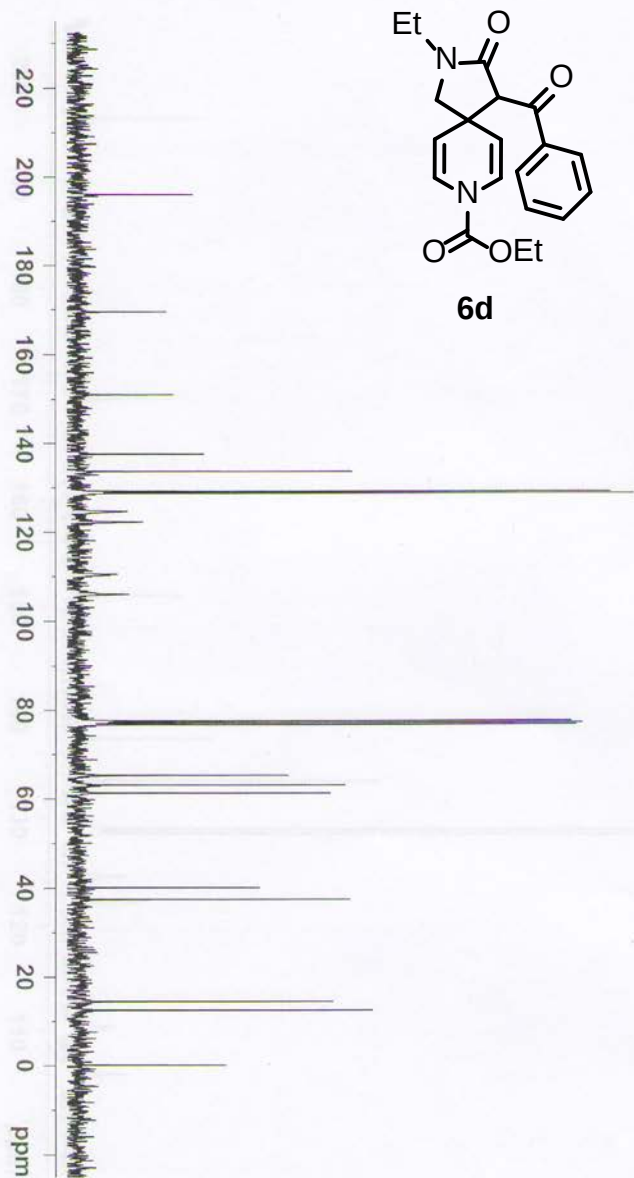


6d



Current Data Parameters
NAME SGP04-89-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110916
Time 16:43
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182954 Hz
AQ 2.1329014 sec
RG 320
DE 83.400 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -4.00 dB
F1 300.1504019 MHz
SFO1 300.1504019 MHz
F2 - Processing parameters
SI 16384
SF 300.1499864 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



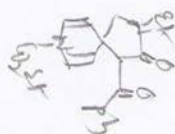


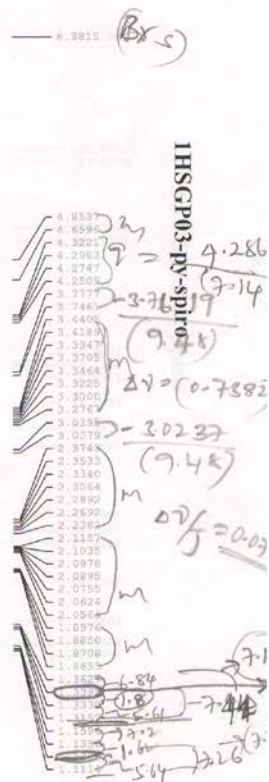
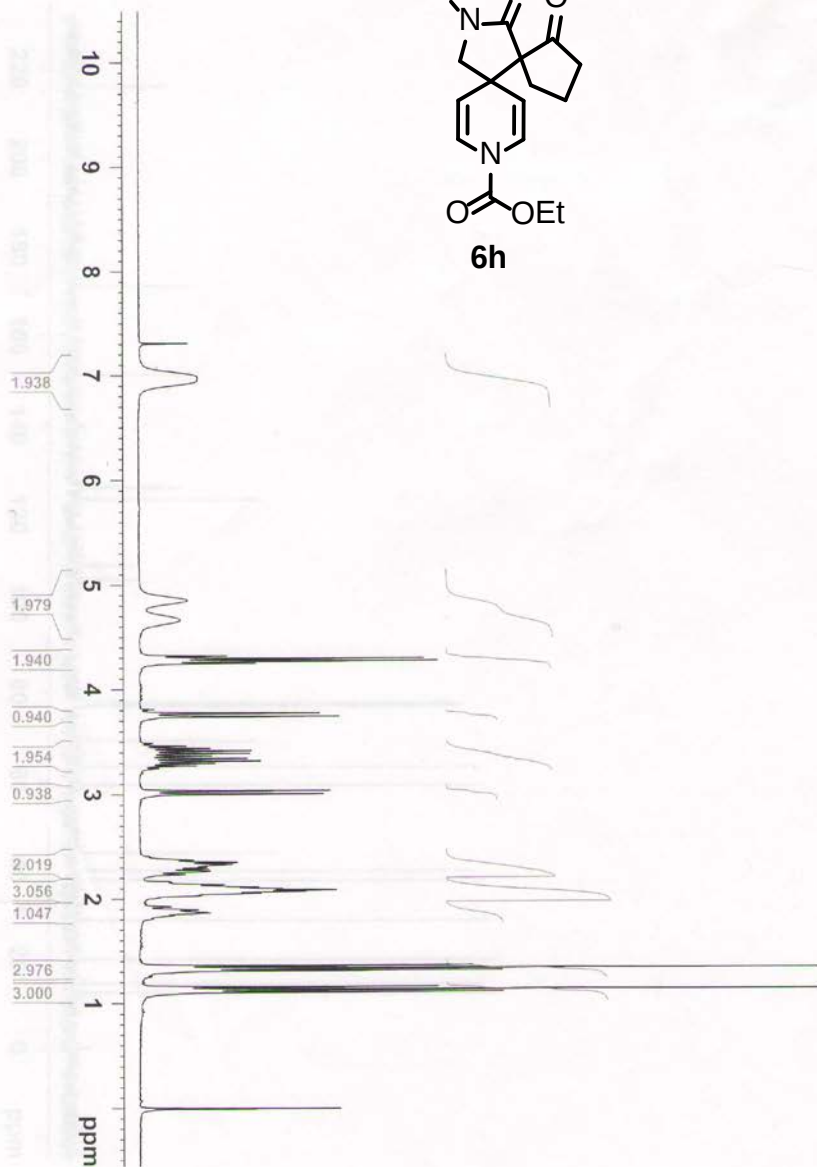
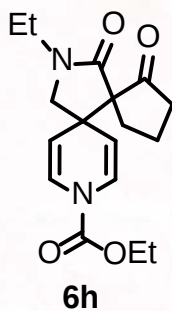
13C SGP04-89-

196.0214
169.5730
151.0778
137.6127
133.6903
129.1424
128.7371
124.6426
122.3310
110.5380
106.0632
77.6551
77.2311
76.8072
65.3838
63.1721
61.3560
40.1556
37.5326
14.4841
12.5149
0.1380

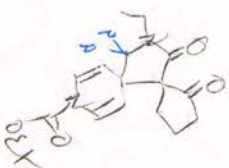


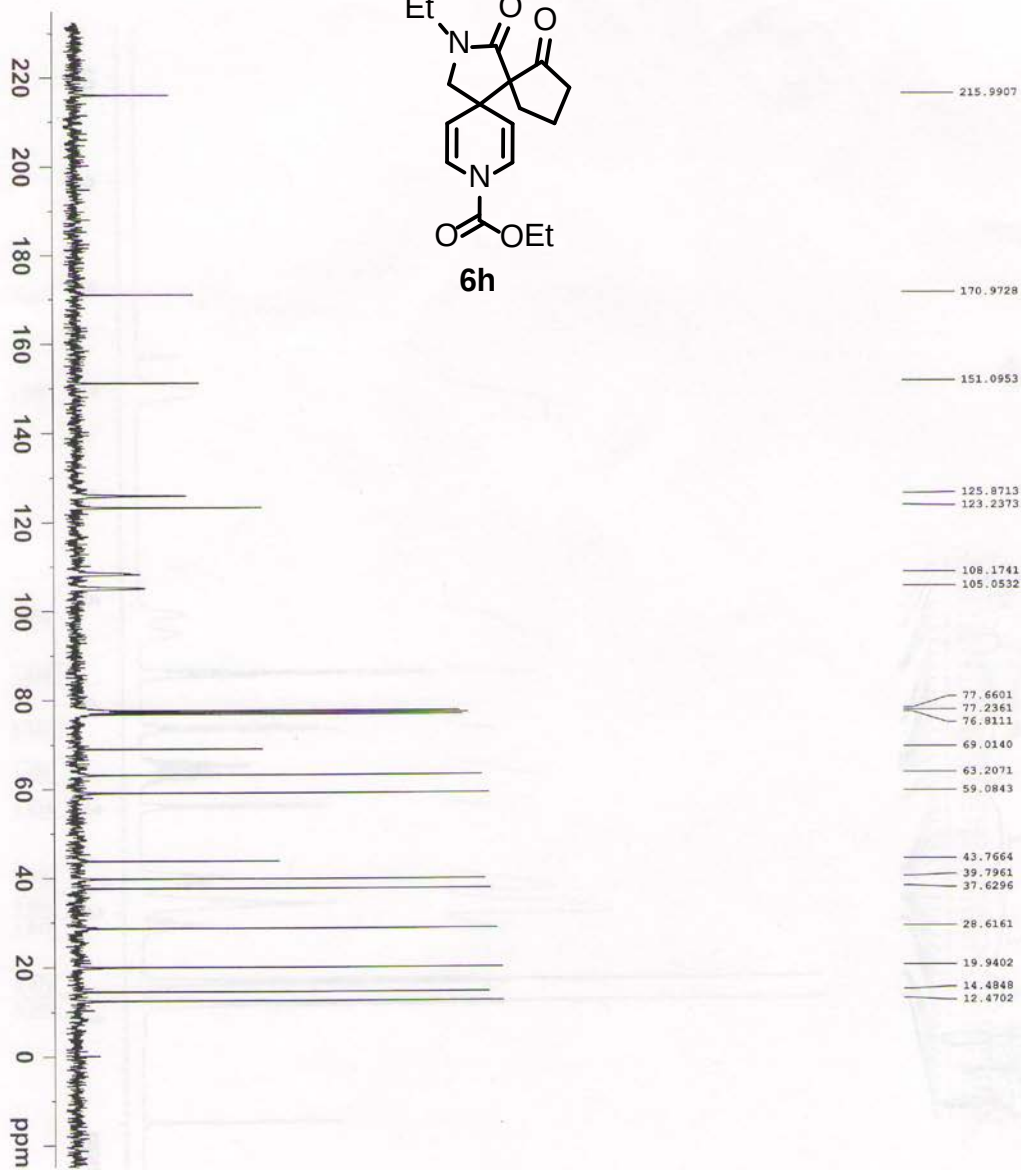
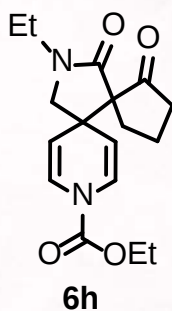
Current Data Parameters
NAME SGP04-89-
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20101010
Time 16:48
INSTRUM spect
PROBHD 5 mm QNP 99138
PULPROG zgpg30
TD 65536
FIDRES 0.3213
AQ 1.5417269 sec
RG 327.68
GB 1.00
PC 1.00
D1 0.0000000 sec
D11 0.0000000 sec
TDO 0.0000000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 15.00 usec
PL1 0.00 dB
SFO1 75.480253 MHz
===== CHANNEL f2 =====
NUC2 1H
P2 12.00 usec
PL2 0.00 dB
SFO2 300.1352606 MHz
F2 - Processing parameters
SI 32768
SF 75.477463 MHz
WDW EM
SSB 0
LB 3.50 Hz
GB 0
PC 1.40





Current Data Parameters
NAME: SGP03-py-spice
EXPNO: 1
PROCNO: 1
F2 - Acquisition Parameters
Date_: 20081218
Time: 15.43
INSTRUM: spect
PROBHD: 5 mm QNP 1H/13
PULPROG: zgpg30
TD: 32768
SOLVENT: CDCl3
NS: 6
DS: 4
SWH: 5995.204 Hz
FIDRES: 0.182959 Hz
AQ: 2.7329011 sec
RG: 64
RM: 83.450 usec
DE: 6.50 usec
TE: 298.2 K
D1: 2.00000000 sec
TD0: 1
===== CHANNEL f1 =====
NUC1: 13C
P1: 9.00 usec
PL1: -0.50 dB
SFO1: 300.1524012 MHz
F2 - Processing parameters
SI: 16384
SF: 300.149907 MHz
WDW: EM
SSB: 0
GB: 0
PC: 1.00





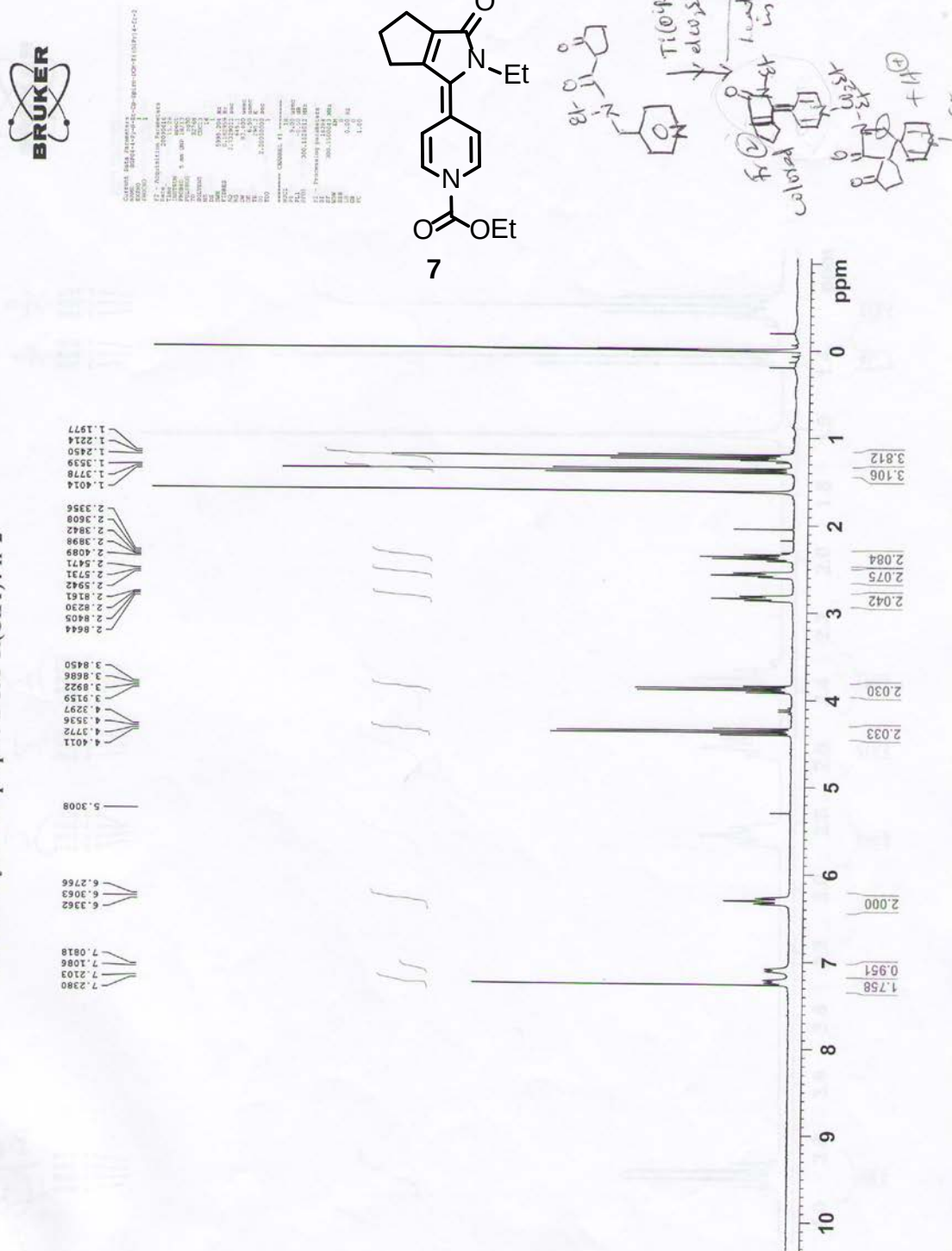
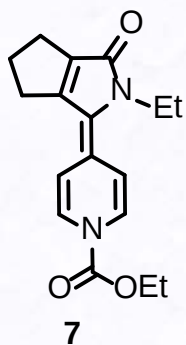
Current Data Parameters
NAME SGP03-py-spiro
EXPNO 2
PROCNO 1
Date_ 20081128
Time 15.48
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1280
DS 4
SWH 19600.000 Hz
F2 100.626181 MHz
AQ 0.0085 sec
RG 327.5
F2 9.152 usec
DE 1.6417259 sec
TE 298.2 K
D 0.1513200 sec
d11 0.0300000 sec
TDO 1

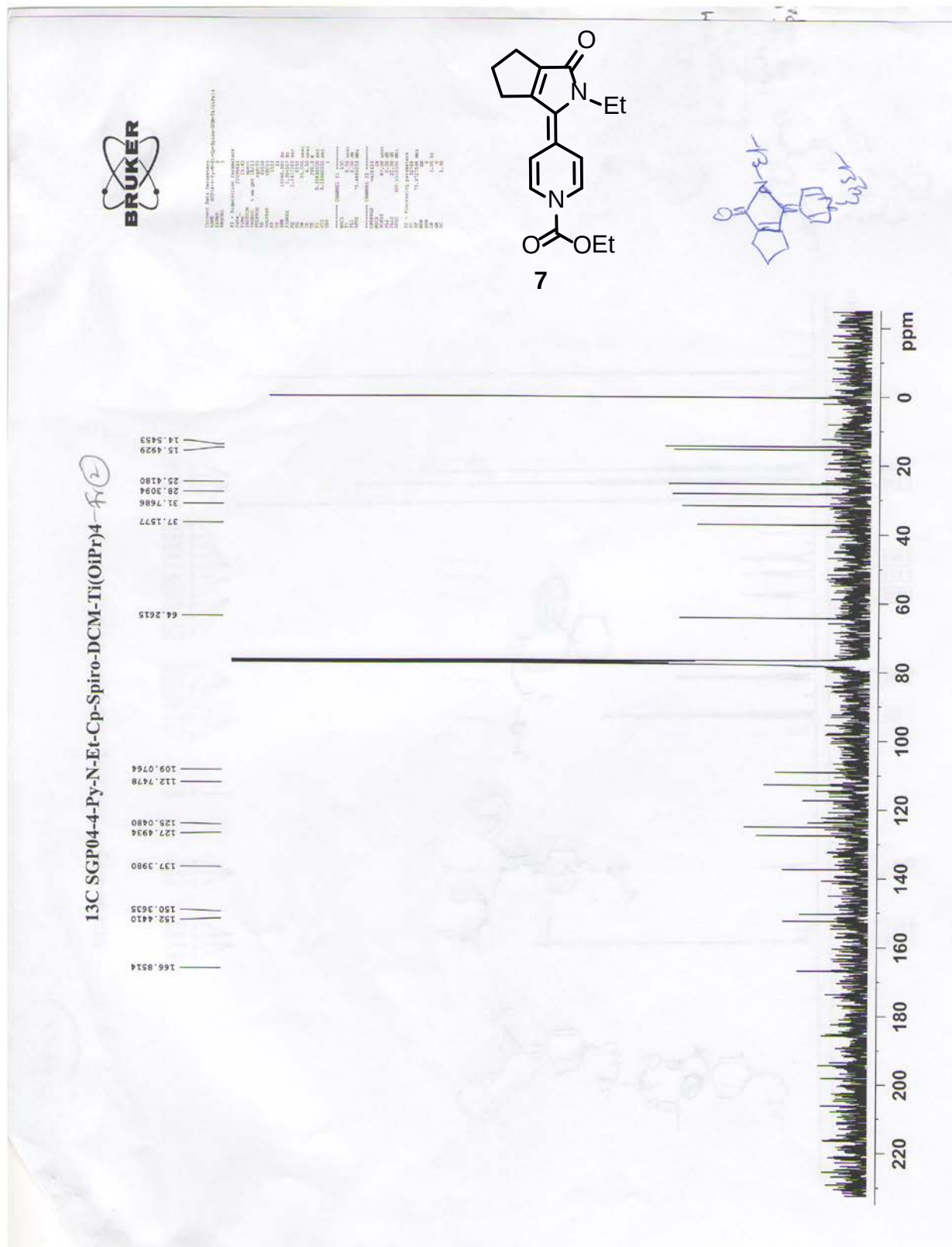
===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 0.00 dB
SFO1 75.4803253 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 12.00 usec
PL2 0.00 dB
SFO2 300.1512056 MHz

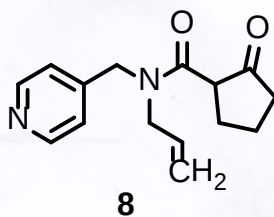
F2 - Protonating Parameters
ST 4.2748
RF 75.4777667 MHz
NUC 1H
P1 12.00 usec
PL1 0.00 dB
SFO1 75.4803253 MHz



SGP04-4-Py-N-Et-Cp-Spiro-DCM-Ti(OiPr)₄-fr-2



1H SGP04-28-

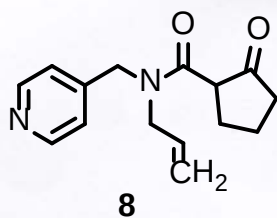
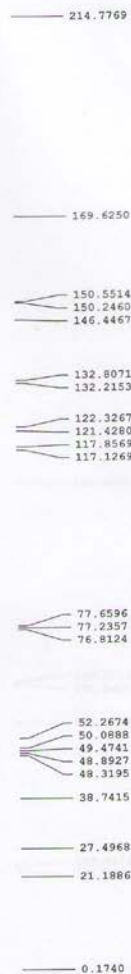


Current Data Parameters
NAME SGP04-28-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 201307
Time 14:44
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
PCPDPR 3.90
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.18295 Hz
AQ 2.732301 sec
RG 63.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD 1
CHNCL F1
NUC1 1H
P1 9.00 usec
PL1 0.00 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499995 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

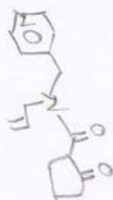




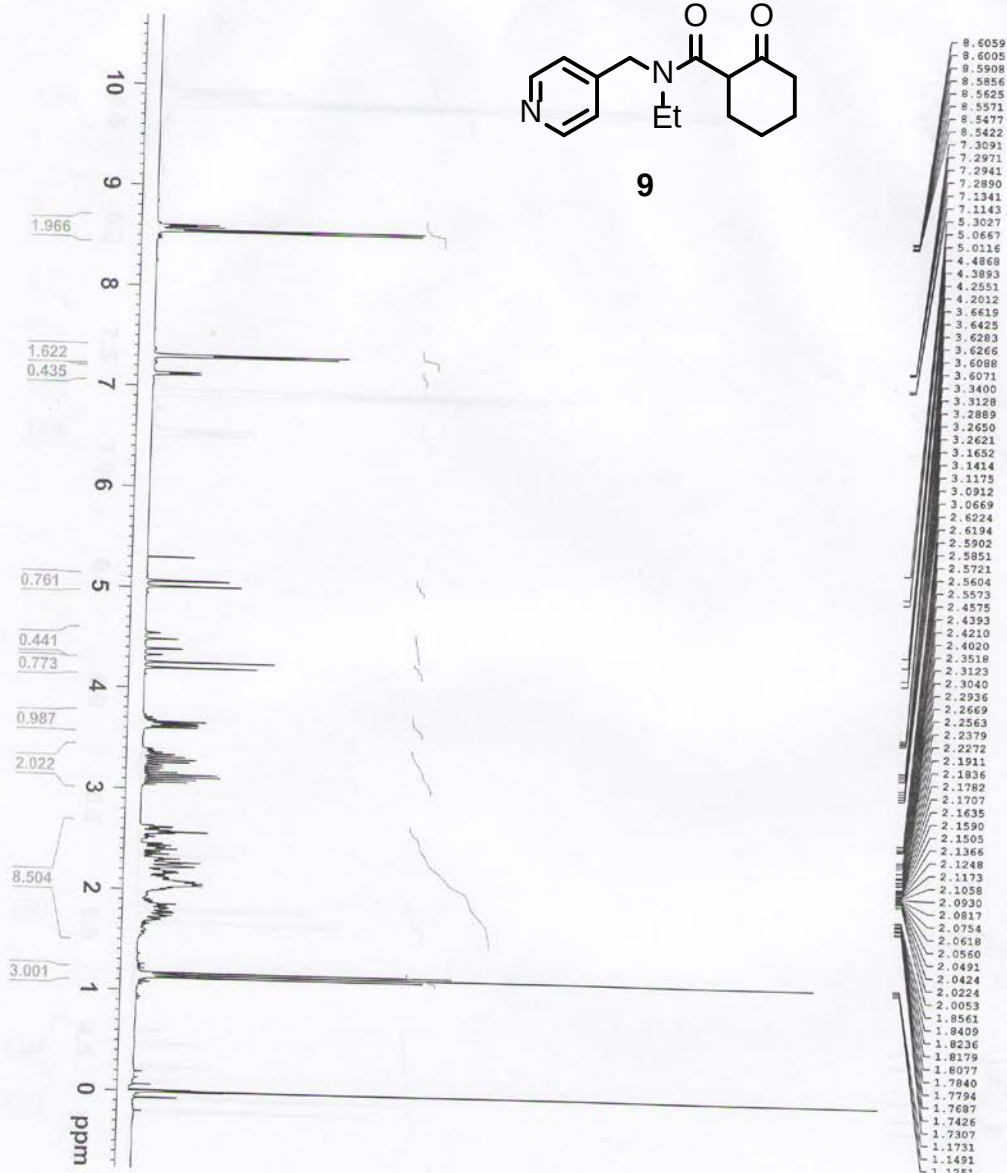
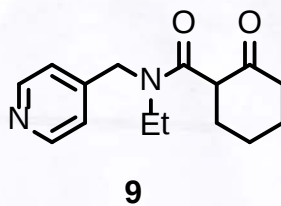
13C SGP04-28-



Current Data Parameters
 Name: 13C SGP04-28-
 EXPNO: 2
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 20110507
 Time: 14:45
 Instrument: spect
 PROBRW: 5 mm QNP 1H/13
 PULPROG: zgpg30
 TOU: 65516
 SOLVENT: CDCl3
 NS: 16
 DS: 4
 SWH: 15600.000 Hz
 FIDRES: 0.445 Hz
 AQ: 1.6417269 sec
 RG: 13924
 DQ: 6.50 usec
 DE: 298.2 K
 TE: 1.60032500 sec
 d11: 0.0000000 sec
 TDO: 1
 ===== CHANNEL f1 =====
 NUC1: 13C
 P1: 12.00 usec
 PL1: 0.00 dB
 SFO1: 75.4803253 MHz
 ===== CHANNEL f2 =====
 CDP2PC2: waltz16
 NUC2: 1H
 P2: 87.00 usec
 PL2: 0.00 dB
 PL12: 19.00 dB
 SFO2: 100.1372006 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 75.4727832 MHz
 KW: 0
 LB: 3.50 Hz
 GB: 0
 PC: 1.40

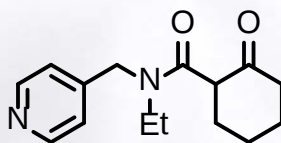


1H SGP03-206-dried

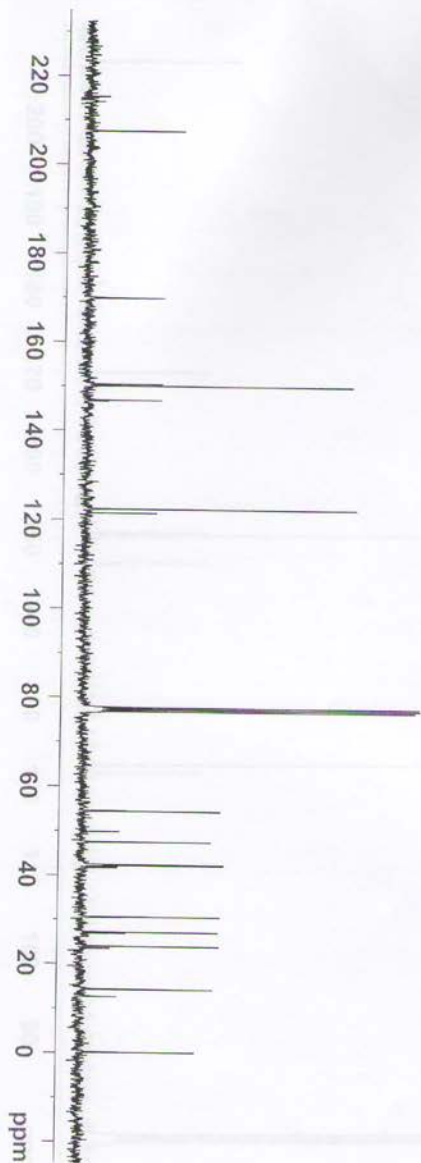


Current Data Parameters
 NAME SGP03-206-dried
 EXPNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20110510
 Time 13.03
 INSTRUM spect
 PROBRD 5 mm QNP 1H/13
 PULPROG zgpg30
 TO 32768
 SOLVENT CDCl3
 NS 2
 DS 4
 SWH 5995.301 Hz
 FIDRES 0.182558 Hz
 AQ 2.7329011 sec
 RG 128
 RW 83.400 usec
 LR 255.2 KHz
 TE 300.2 K
 D1 2.00000000 sec
 TDO 1
 CHANNEL f1
 NUC1 13C
 P1 12.00 usec
 PL1 -0.50 dB
 SFO1 300.1524012 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1499410 MHz
 WTG6 0.00000000
 SSB 0
 GB 0
 CD 0
 PC 1.00





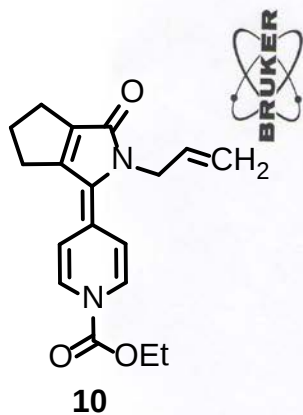
9



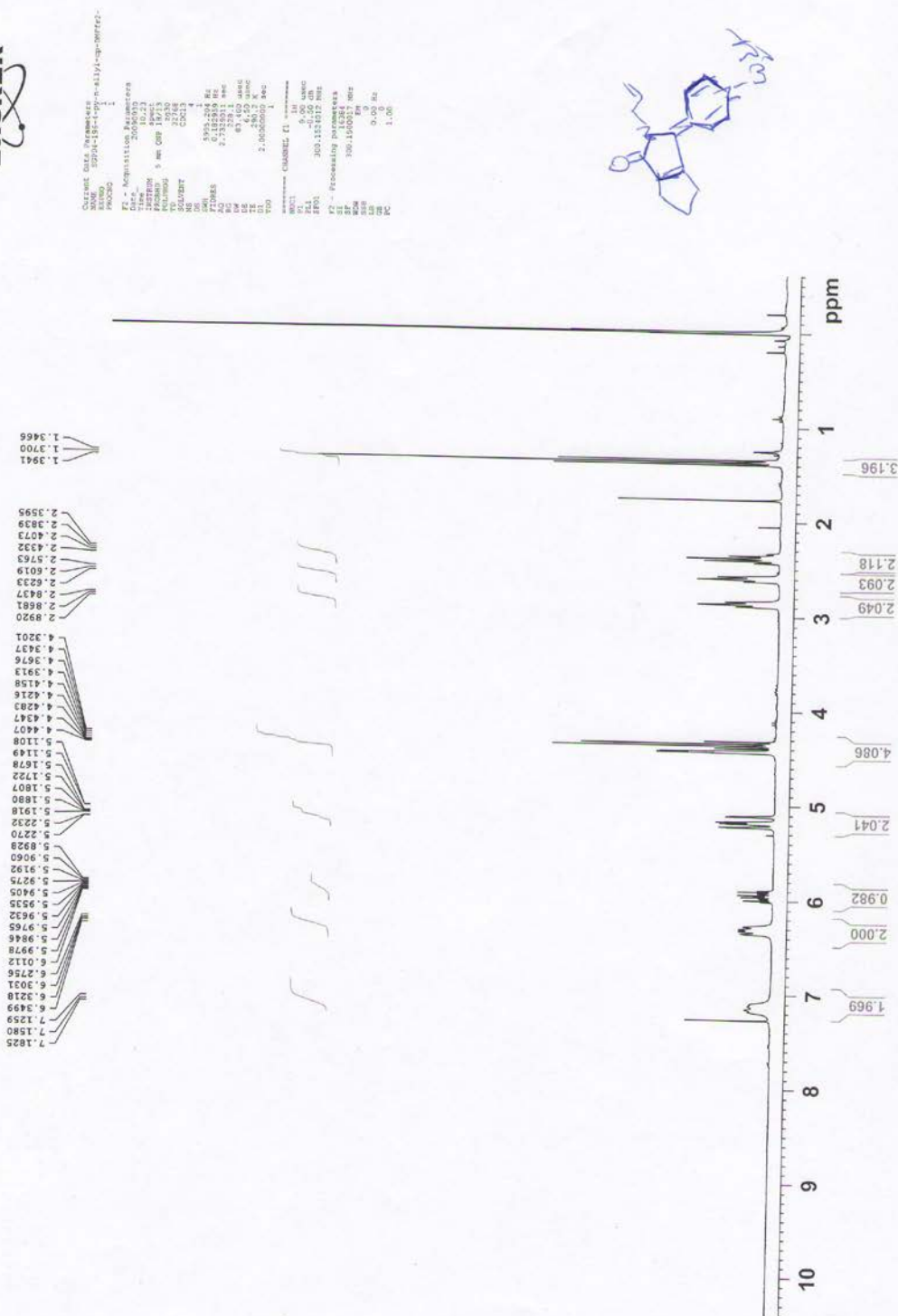
¹³C SGP03-206-dried

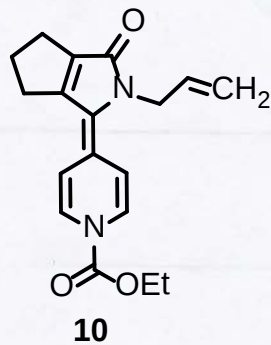


Current Data Parameters
NAME: SGP03-206-dried
EXPNO: 2
PROCNO: 1
F2 - Acquisition Parameters
Date_ : 2012.09
Time : 12.09
INSTRUM : spect
PROBHD : 5 mm QNP 1H/1
PULPROG : zgpg30
TD : 65536
SOLVENT : DMSO-d6
NS : 151
DS : 4
SWH : 15620.016 Hz
FIDRES : 0.381561 Hz
AQ : 1.6417259 sec
RG : 327.5
DE : 28.050 umsc
TE : 300.2 K
D1 : 1.30000000 sec
d11 : 0.10000000 sec
d12 : 0.10000000 sec
d13 : 0.10000000 sec
===== CHANNEL f1 =====
NUC1 : 13C
P1 : 12.00 umsc
PL1 : 0.00 dB
SFO1 : 75.460203 MHz
===== CHANNEL f2 =====
NAME: SGP03-206-dried
EXPNO: 2
PROCNO: 1
F2 - Processing parameters
SI : 32768
SF : 75.4627663 MHz
WDW : EM
SSB : 0
LB : 3.50 Hz
GB : 0
PC : 1.40

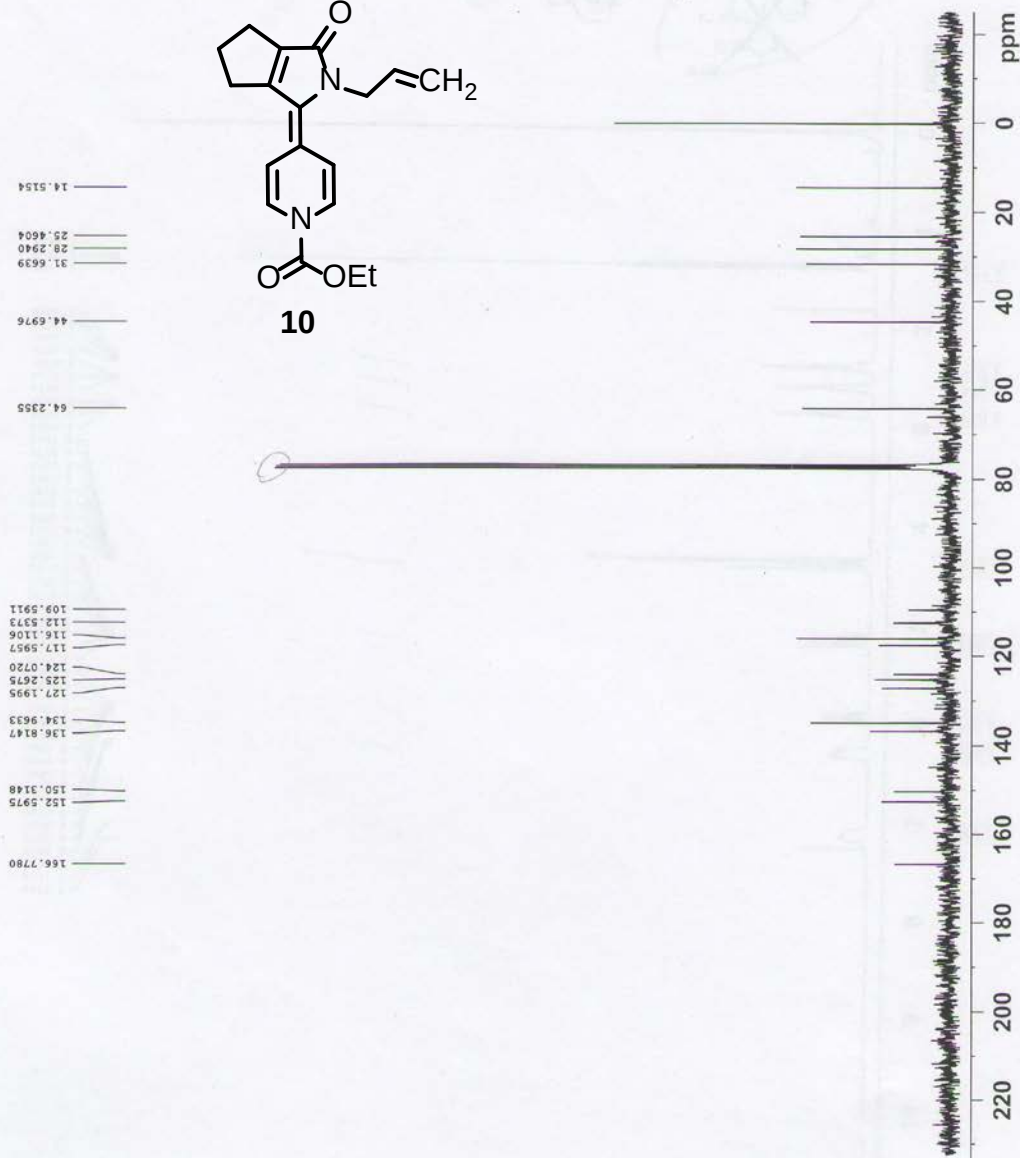


¹H SGP04-196-4-py-n-allyl-cp-DMFfr2-



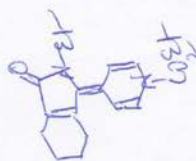
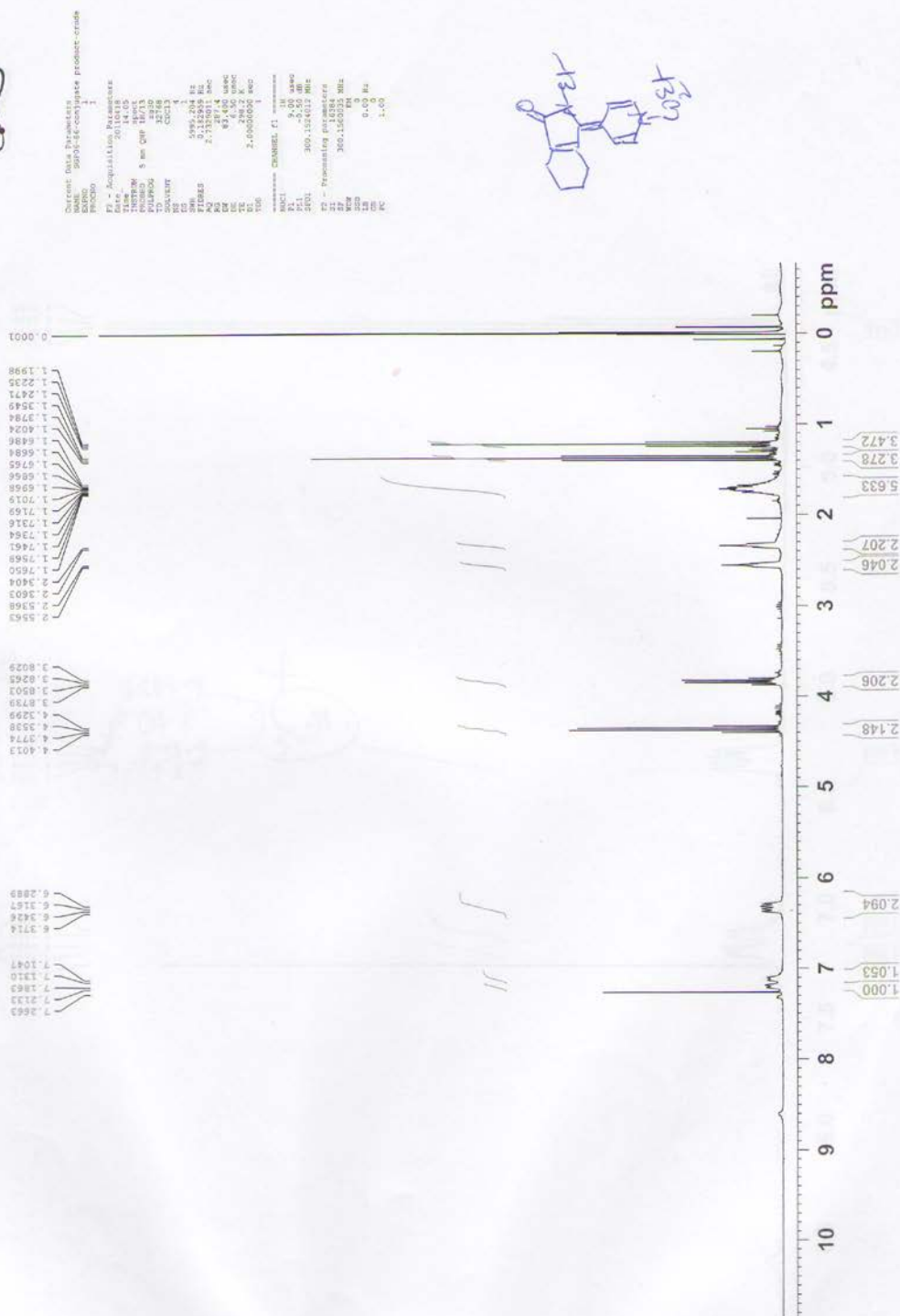


13C SGP04-196-4-py-n-allyl-cp-DMFfr2





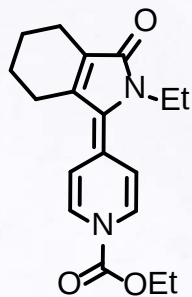
1H SGP06-86-conjugate product-crude



¹³C SGP06-86-conjugate product-crude



Date: 06/06/2016
 Time: 11:12
 File: 11-12
 Name: 11-12
 Sample: 11-12
 Pulse: 11-12
 F2 - Acquisition Parameters
 Date_ 06/06/2016
 Time_ 11:12
 File_ 11-12
 Name_ 11-12
 Sample_ 11-12
 Pulse_ 11-12
 F2 - Processing Parameters
 Date_ 06/06/2016
 Time_ 11:12
 File_ 11-12
 Name_ 11-12
 Sample_ 11-12
 Pulse_ 11-12
 F2 - Processing Parameters
 Date_ 06/06/2016
 Time_ 11:12
 File_ 11-12
 Name_ 11-12
 Sample_ 11-12
 Pulse_ 11-12

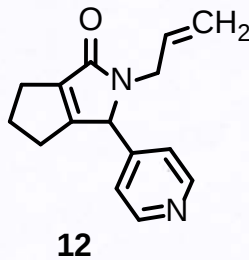


11





1H SGP06-77-fr2



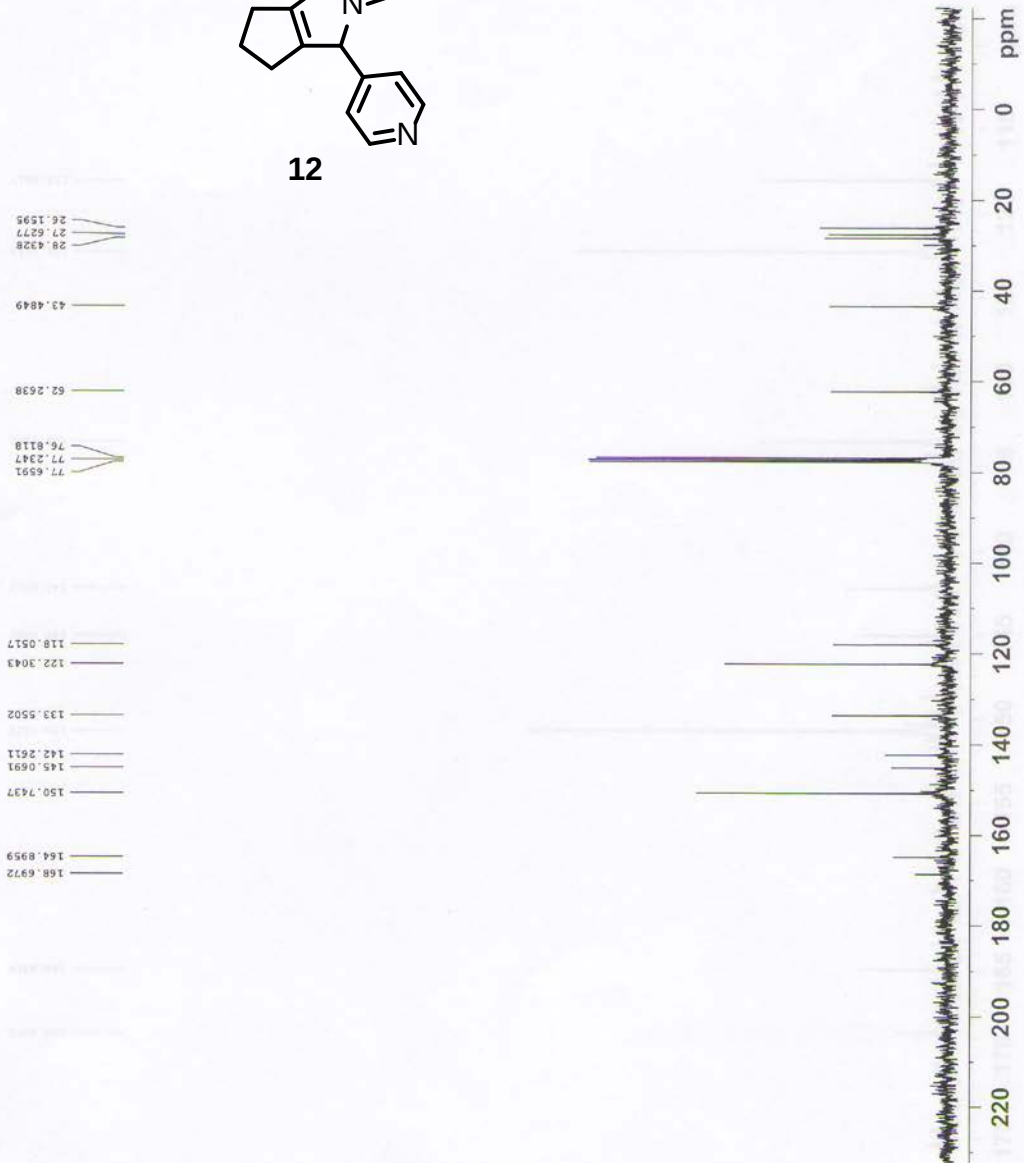
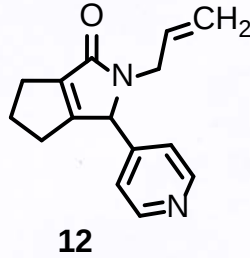
Current Data Parameters
NAME SGP06-77-fr2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110321
Time_ 14:45
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 161
AQ 83.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.0000000 sec
D11 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1459988 MHz
WDW EM
SSB 0
GB 0
PC 1.00



¹³C SGP06-77-fr.2

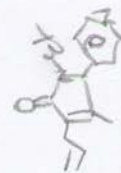


Current Data Parameters
 NAME SGP06-77-fr.2
 EXPNO 2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 2014.5.31
 Time 20:14.53
 PROTON spect
 PULPROG zgpg30
 FIDRES 5 mm QNP
 TD 65536
 SFO 500.132004
 SOLVENT DMSO
 NS 208
 DS 4
 SS 16
 AQ 19.900 sec
 FIDRES 0.16 Hz
 AQ 0.104567 Hz
 SFO 500.132004 MHz
 DE 25.050 usec
 TE 6.50 usec
 D1 1.00000000 sec
 d11 0.03000000 sec
 D59 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.50 usec
 PL1 0.00 dB
 SFO1 75.493253 MHz
 ===== CHANNEL f2 =====
 NUC2 1H
 P2 19.00 usec
 PL2 0.00 dB
 SFO2 300.132004 MHz
 ===== Processing parameters =====
 SI 32768
 SF 500.132004 MHz
 DS 4
 SS 16
 GB 3.0 Hz
 EC 1.40

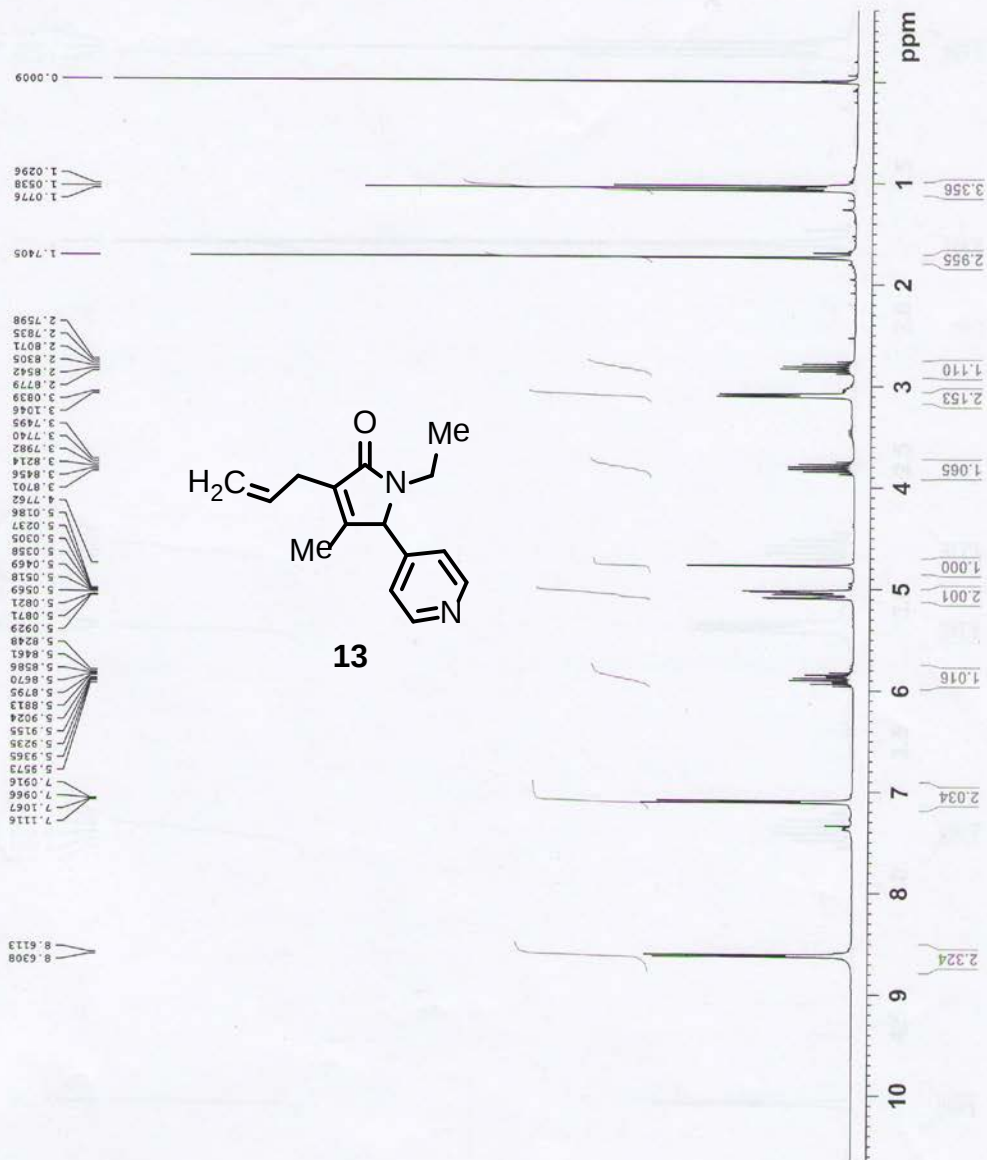




Current Data Parameters
NAME SGP05-186
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100805
Time 11.21
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329911 sec
RG 64
DM 83.400 usec
DE 6.50 usec
TE 298.2 K
TD0 2.00000000 sec
CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 0.00 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499819 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

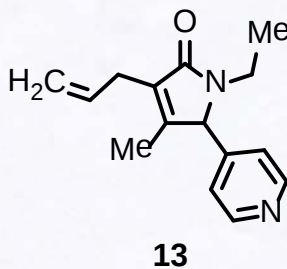


1H SGP05-186

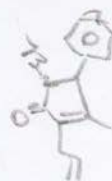
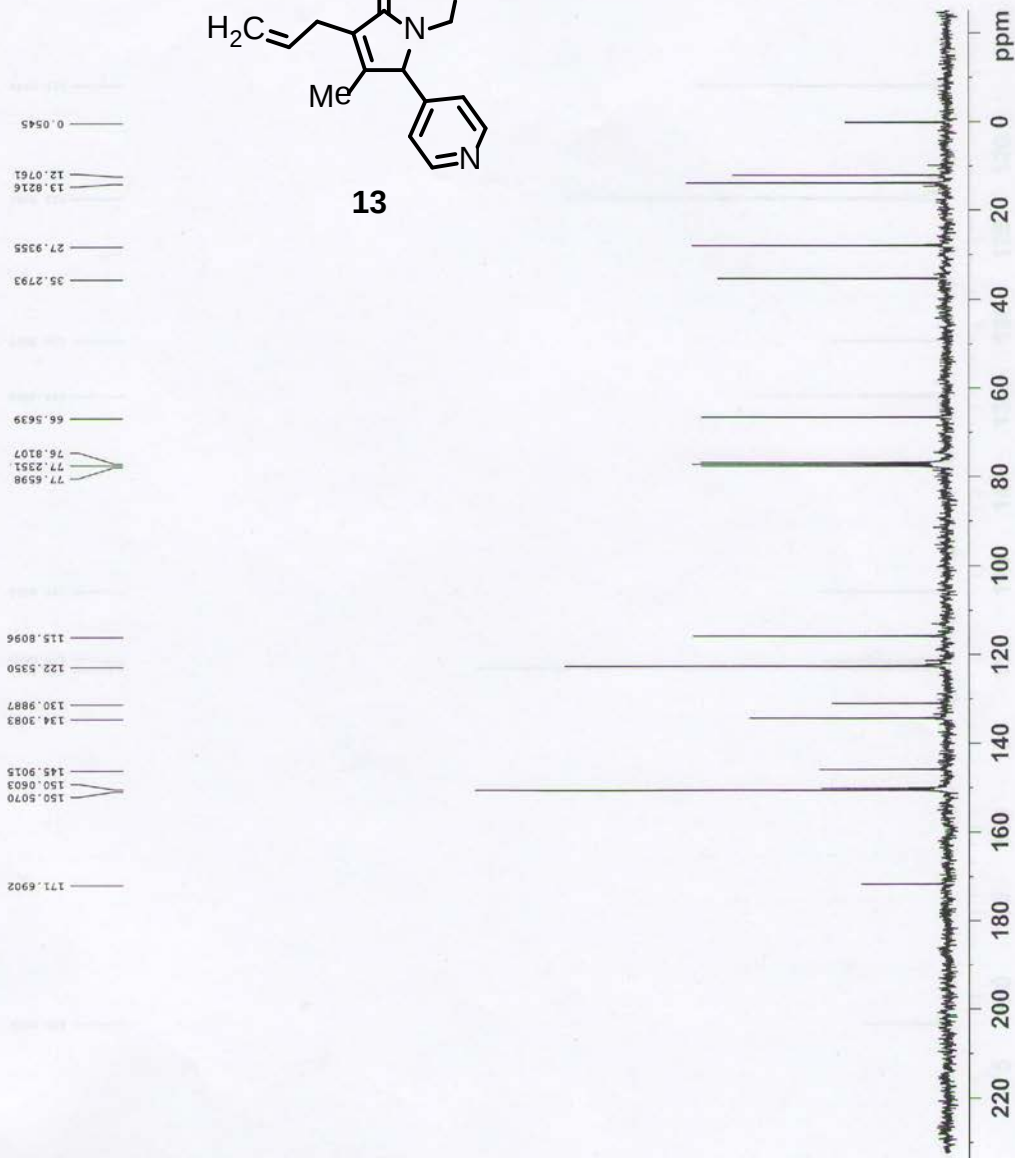




Current Data Parameters
NAME 13CSGP05-186
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100603
Time 11:28
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
PC 120
SOLVENT CDCl3
NS 101
DS 4
SWH 19660.000 Hz
FIDRES 0.304567 Hz
AQ 1.641634 sec
RG 327.5
DM 25.050 usec
TE 298.2 K sec
D1 1.00000000 sec
d11 0.03000000 sec
TD3 1
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.480325 MHz
===== CHANNEL f2 =====
NAME 13C
P2 9.50 usec
PL2 0.00 dB
SFO2 300.1312000 MHz
F2 - Processing parameters
SI 32768
SF 75.472703 MHz
WDW EM
SSB 0
GB 0
PC 1.40



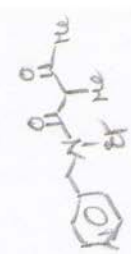
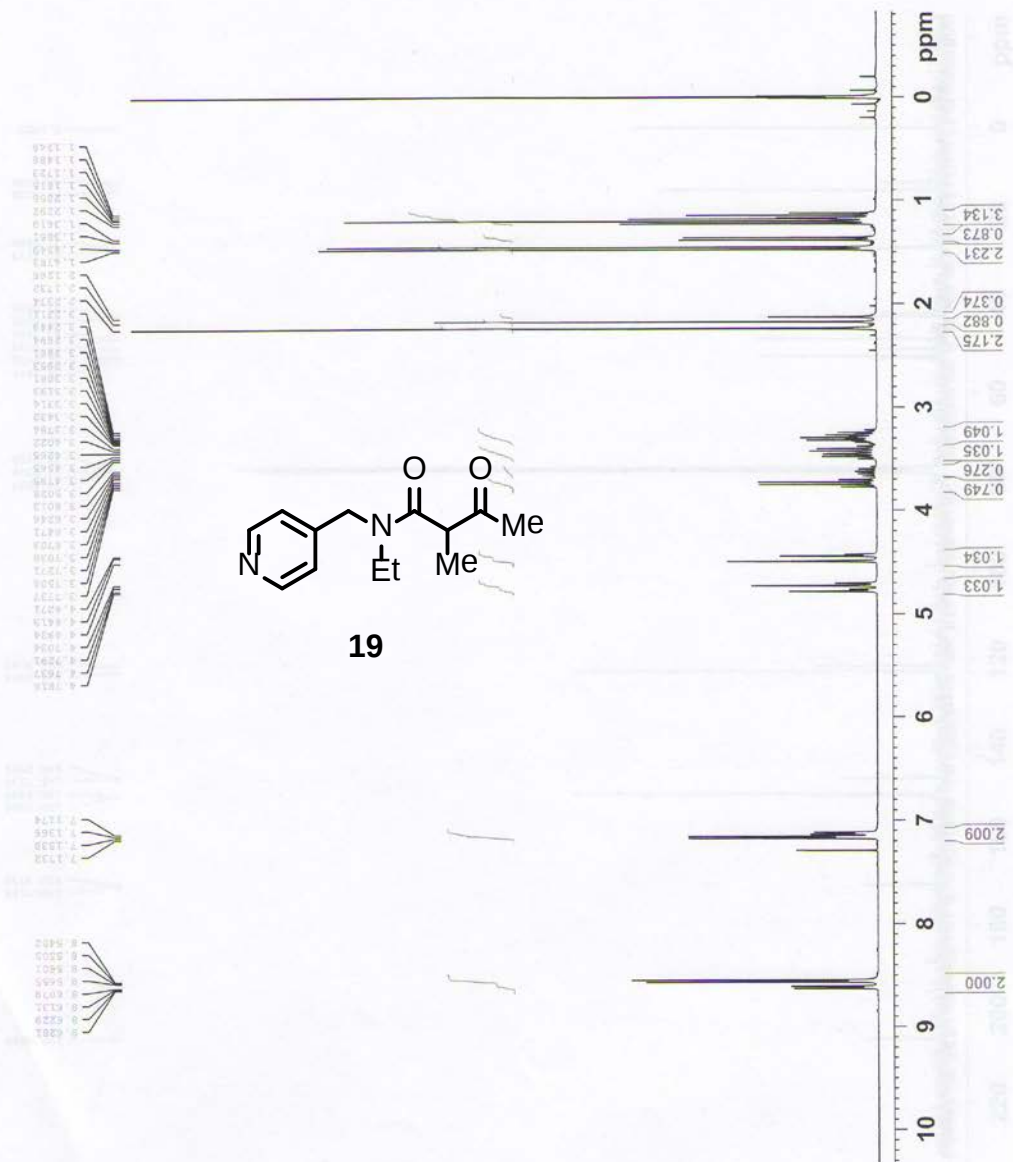
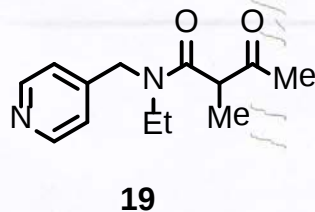
13CSGP05-186





1H SGP05-157

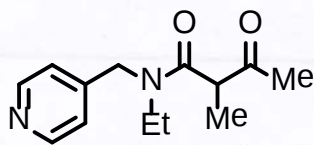
Current Data Parameters
NAME SGP05-157
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100623
Time 12.05
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.12535 Hz
AQ 2.712901 sec
RG 128
DM 83.400 usec
DE 6.50 usec
TE 290.2 K
D1 0.000000 sec
TDO 2.00000000 sec
CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 -0.00 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499986 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



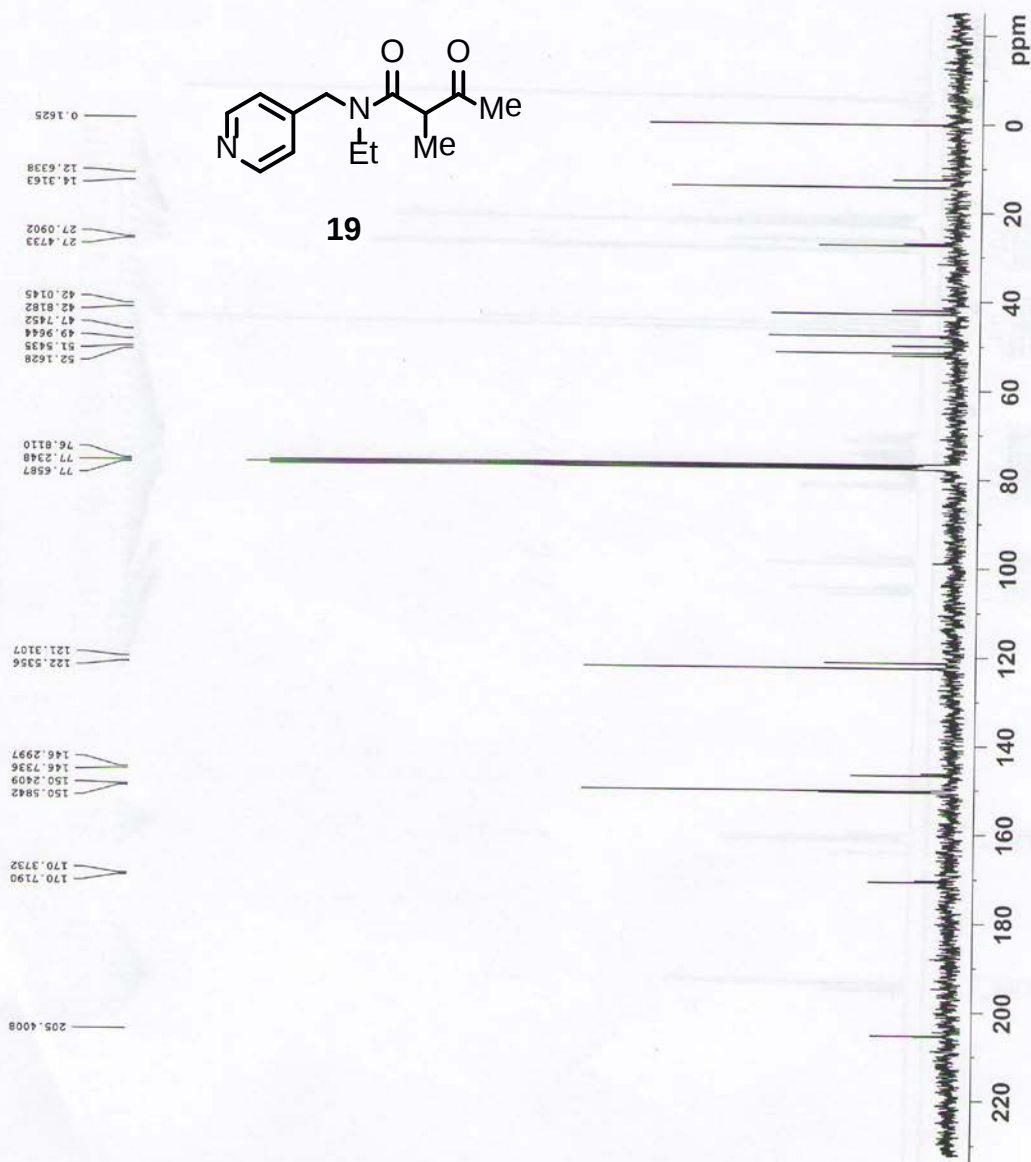
¹³C SGP05-157



Current Data Parameters
 NAME SGP05-157
 EXPNO 2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20080116
 Time 12.16
 INSTRUM spect
 PULPROG zgpg30
 PROBO 5 mm QNP 1H/13
 FIDRES 0.09336
 SOLVENT CDCl₃
 NS 207
 DS 4
 SWH 19960.016 Hz
 FIDRES 0.304587 Hz
 AQ 1.641269 sec
 RG 327.5
 CW 25.050 usec
 DE 6.50 usec
 TE 300.2 K
 D1 1.00000000 sec
 d11 0.03000000 sec
 DELTA 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.50 usec
 PL1 0.00 dB
 SFO1 75.4003253 MHz
 ===== CHANNEL f2 =====
 NUC2 1H
 P2 19.00 usec
 PL2 0.00 dB
 SFO2 300.1512006 MHz
 F2 - Processing parameters
 SI 32768
 SF 75.472760 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.40



19





1H SGP05-168-pure

0.0013
-0.0002

1.0258
1.0497
1.0736

1.1187
1.1203
1.0732
1.0764

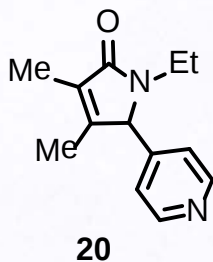
2.7426
2.7661
2.7887
2.9132
2.9567
2.9604

3.7806
3.7851
3.8093
3.8325
3.8567
3.8813

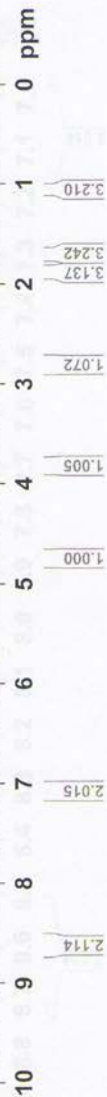
4.7295

7.0745
7.0759
7.0943
7.3046

8.6292
8.6106

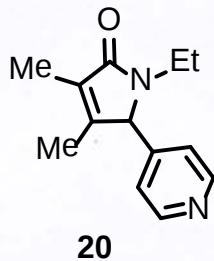


Current Data Parameters
NAME SGP05-168-pure
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100708
Time 14.46
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.182559 Hz
AQ 2.7329011 sec
RG 327.68
DM 83.400 usec
DE 6.50 usec
TE 290.2 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499918 MHz
WDW EN
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

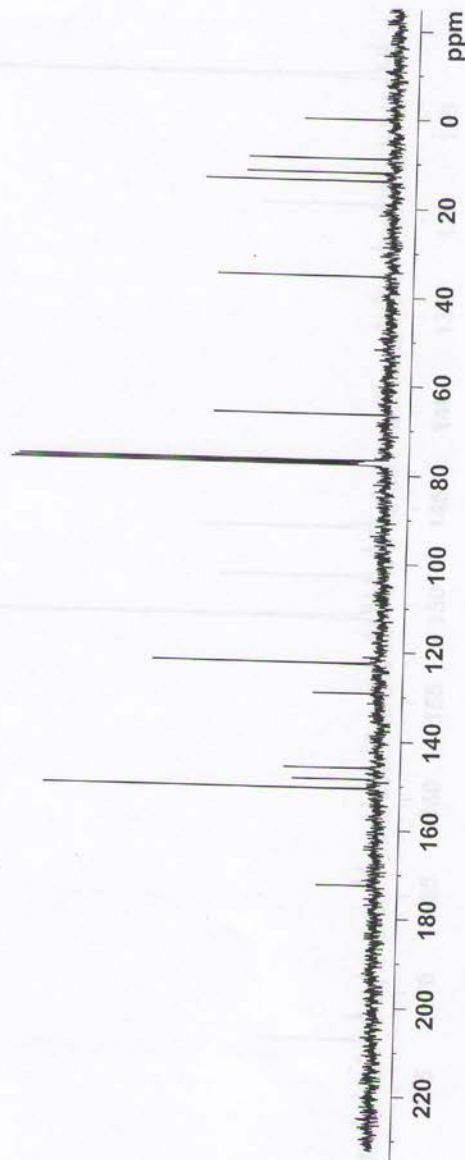




Current Data Parameters
NAME SGP05-168-pure
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100708
Time 9:52
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 133
DS 4
SWH 19960.0816
FIDRES 0.304567 Hz
AQ 0.07777777 sec
RG 1.611269 sec
DM 0.00000000
DE 25.050 usec
TE 300.2 K
D1 1.00000000 sec
d11 0.05000000 sec
TOL 1
===== CHANNEL F1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.485353 MHz
===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
P2 9.00 usec
PL2 0.00 dB
PL12 20.00 dB
SFO2 300.1512006 MHz
F2 - Processing parameters
SI 32768
SF 75.477961 MHz
WDW EM
SSB 0
LB 3.35 Hz
GB 0
PC 1.40

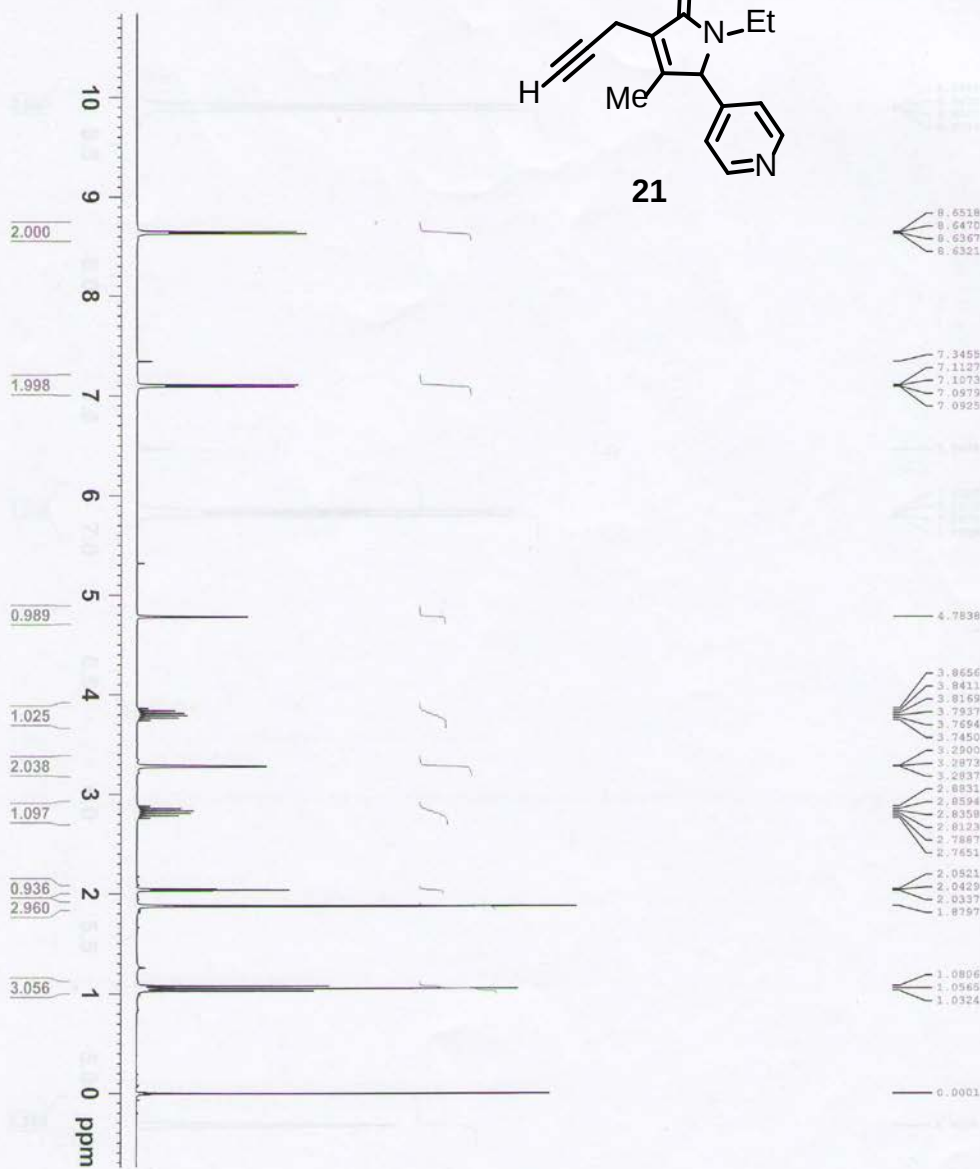
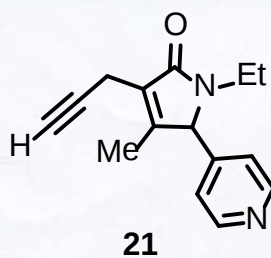


13C SGP05-168-pure



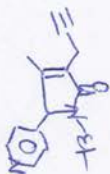


1H SGP05-187

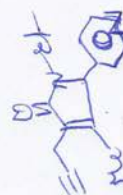
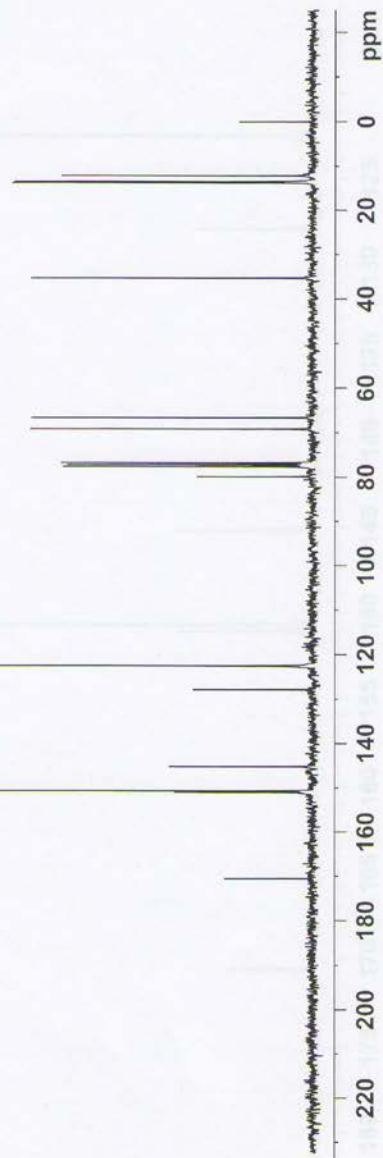
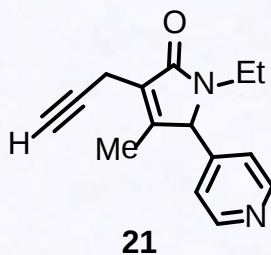


Current Data Parameters
NAME SGP05-187
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100803
Time 11.05
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
DS 2
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 321.08
DE 93.450 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1

CHANNEL f1 1H
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16394
SF 300.1499787 MHz
WDW EX
SSB 0
GB 0
PC 1.00



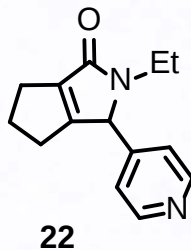
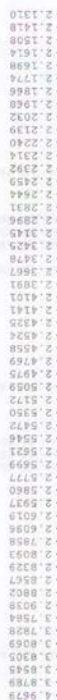
13C SGP05-187



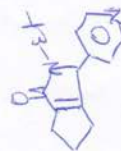
Current Data Parameters
NAME SGP05-187
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100803
Time 11.10
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT dms
CLOCK 143
NS 19960.080 Hz
DS 4
FIDRES 0.304567 Hz
AQ 1.644132 sec
RG 8.92
DM 25.050 usec
TE 298.2 K
TD 1.00000000 sec
F1 75.472711 MHz
F2 101.626125 MHz
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.4803253 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 18.00 usec
PL2 0.00 dB
PL12 20.00 dB
SFO2 356.1512056 MHz
F2 - Processing parameters
SI 32768
SF 75.472711 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40



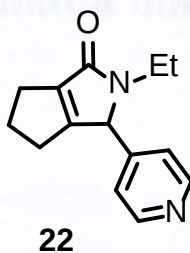
1H SGP06-95



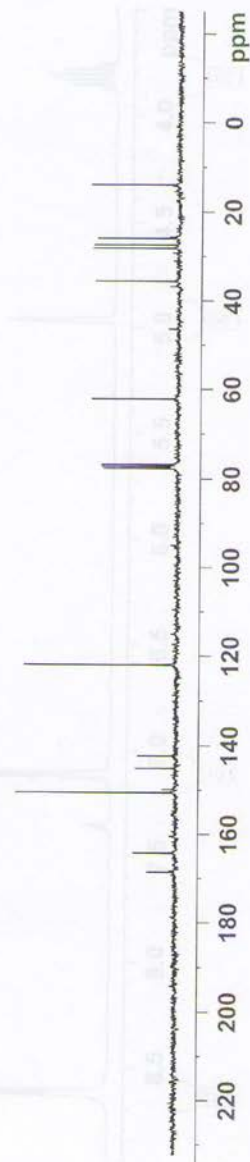
Current Data Parameters
NAME SGP06-95
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110407
Time 20.08
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 327.68
DM 83.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
D11 1
TD0 1
===== CHANNEL f1 =====
NUC1 1H
PL 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499768 MHz
WDW EM
SSB 0
GB 0
PC 1.00



13C SGP06-95-

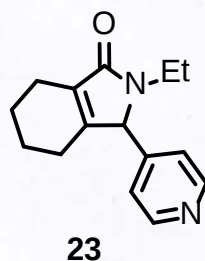


Current Data Parameters
 Name: SGP06-95-
 Date: 20110407
 Time: 20:18
 Instrument: spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 SOLVENT CDCl3
 NS 41
 DS 4
 SWH 13960.660 Hz
 FIDRES 0.304567 Hz
 AQ 0.181666 sec
 RG 327.344
 DQ 1.133464 sec
 DW 25.050 usec
 DE 1.000000 usec
 TE 298.2 K
 D1 1.00000000 sec
 d11 0.05000000 sec
 TDO 0.03000000 sec
 ===== CHANNEL f1: 13C =====
 NUC1 13C
 P1 9.50 usec
 PL 0 dB
 SFO1 75.480325 MHz
 ===== CHANNEL f2: 1H =====
 NUC2 1H
 P2 19.00 usec
 PL 0 dB
 SFO2 300.1312006 MHz
 ===== Processing parameters =====
 SI 32768
 SF 75.472717 MHz
 DS 4
 SW 3.40 Hz
 FWHM 0
 GB 0
 PC 1.40

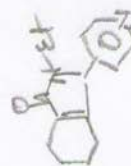




1H SGP06-84

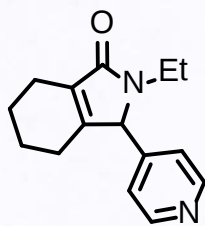


Current Data Parameters
NAME SGP06-84
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 2010329
Time 12.52
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 327.68
DM 83.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499889 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



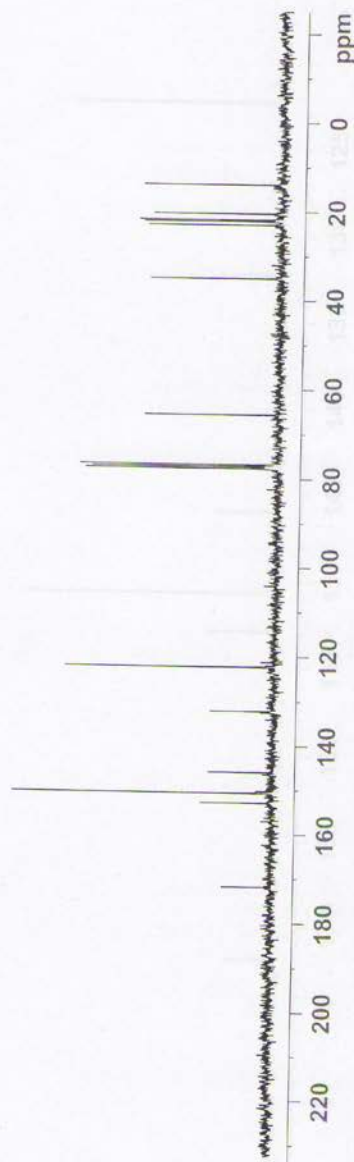


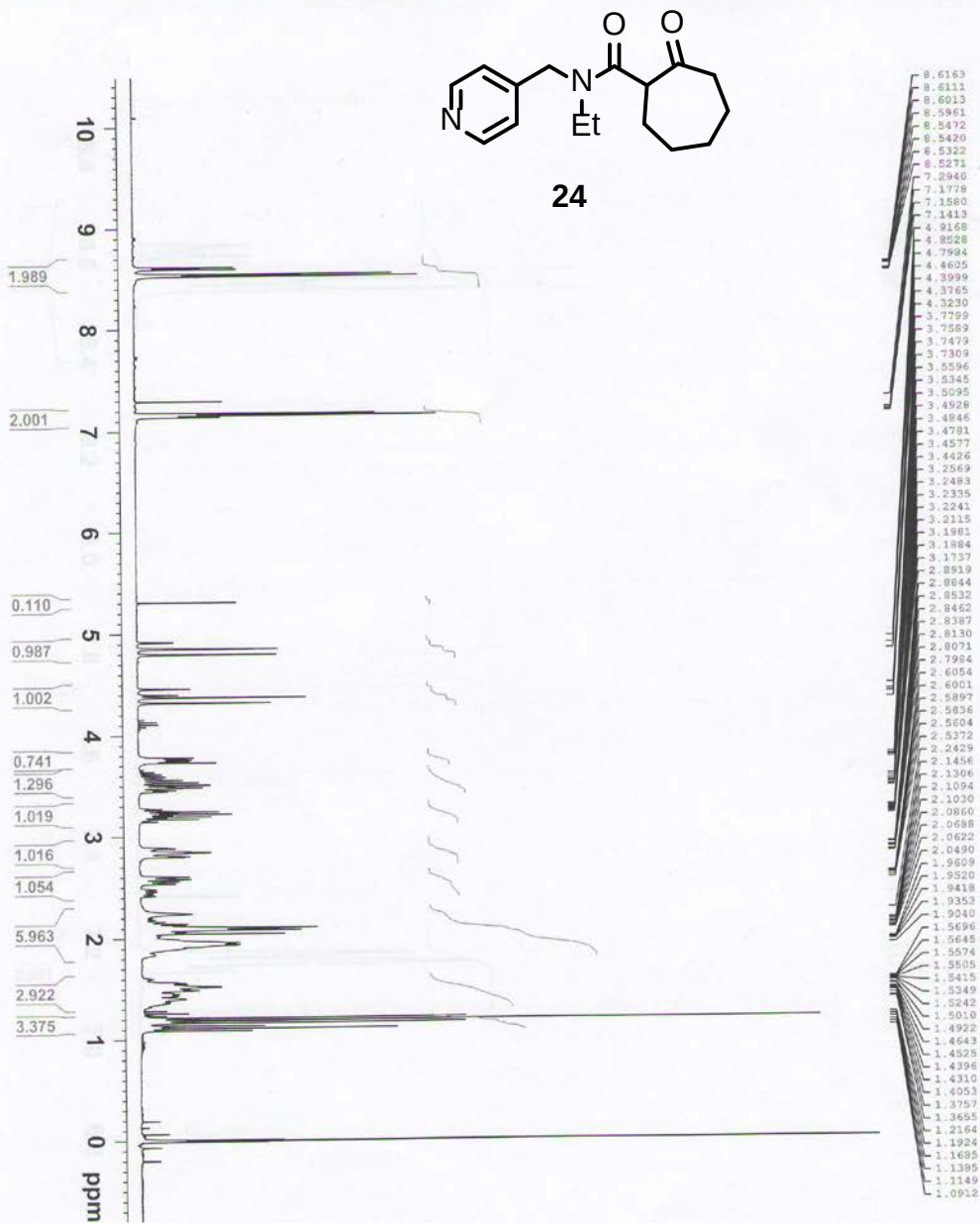
Current Data Parameters
NAME SCP06-84
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110226
Time 13:37
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 67
DS 4
SWH 19950.0816 Hz
FIDRES 0.204567 Hz
AQ 1.611246 sec
RG 327.5
EQ 25.050 usec
TE 30.2 usec
D1 1.00000000 sec
D11 0.03000000 sec
TD 1
SFO1 125.761153 MHz
SFO2 500.132006 MHz
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.483252 MHz
SFO2 300.132006 MHz
NUC2 1H
P2 18.00 usec
PL2 0.00 dB
SFO2 400.146400 MHz
F2 - Processing parameters
SI 32768
SF 500.132006 MHz
WDW EM
SSB 0
GB 0
PC 1.40



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13C SCP06-84



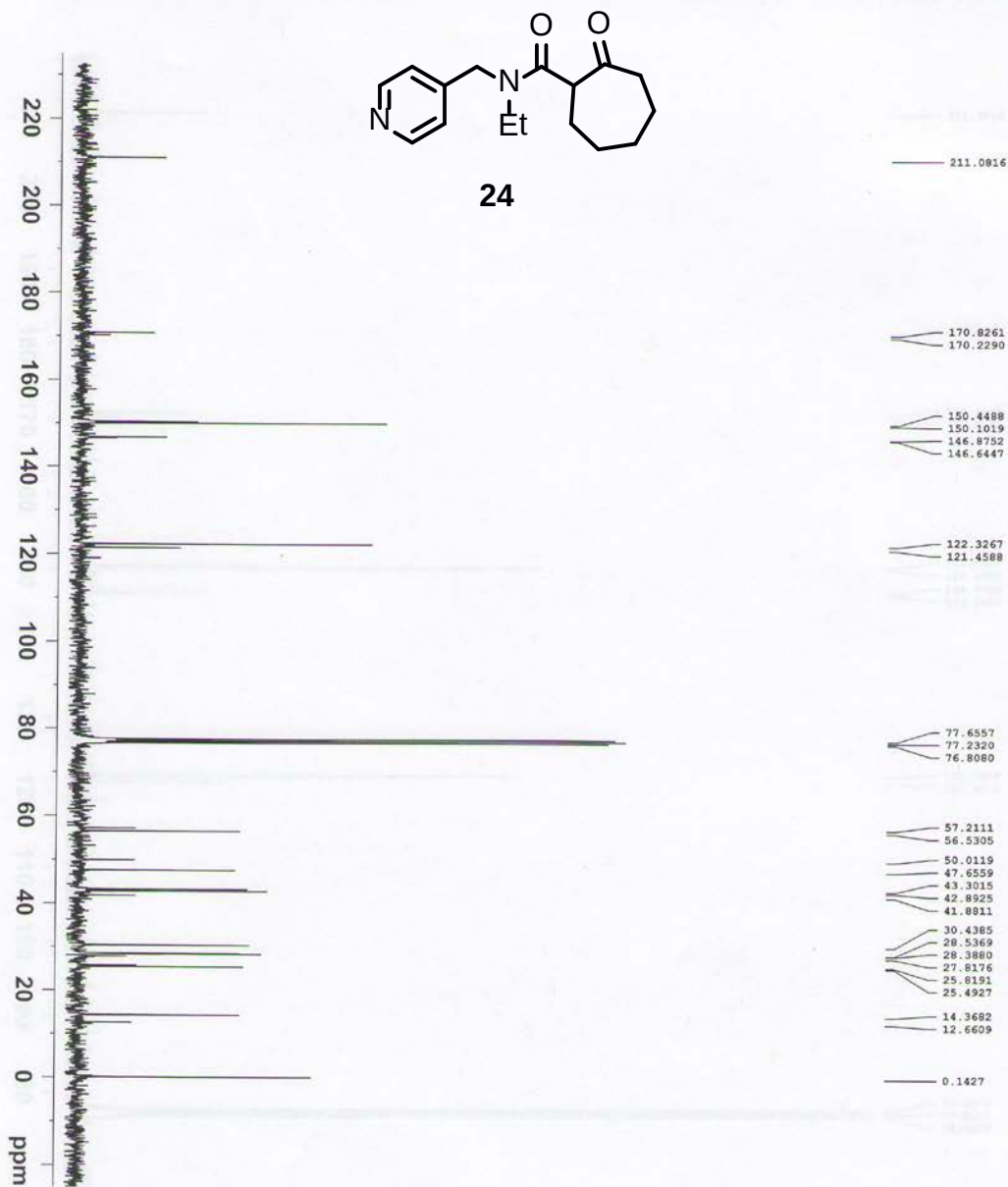


1H SCP05-156
Should be #157
Sample exchange



Current Data Parameters
NAME SCP05-156
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100623
Time 11:46
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.224 Hz
FIDRES 0.3225144 Hz
AQ 2.7329011 sec
RG 101.6
DM 93.400 usec
DE 8.50 usec
TE 300.2 K
TDO 2.0000000 sec
TDC 1
TSC 1
NUC1 CHANNEL f1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1324012 MHz
F2 - Processing parameters
SI 300.145954 MHz
SF 300.145954 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





13C SGP05-156

#155

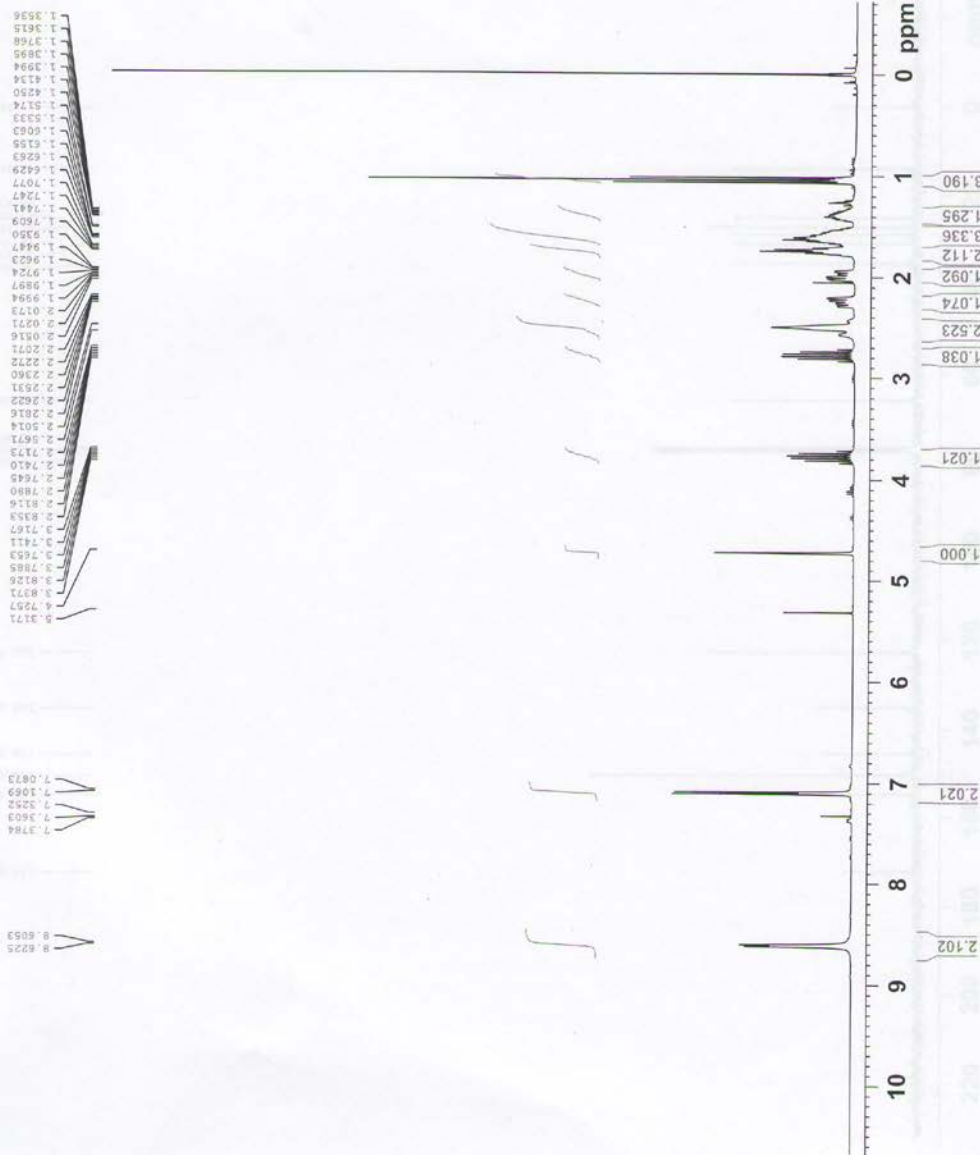


Current Data Parameters
NAME SGP05-156
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100123
Time 11:54
INSTRUM spect
PROBHD 5 mm QNP 1H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 15
DS 16
SWH 19600.860 Hz
FIDRES 0.200000 Hz
AQ 1.641269 sec
RG 2064.1
B2 2064.1
B3 2064.1
DE 6.50 usec
TE 299.2 K
D1 1.0000000 sec
d11 0.0000000 sec
T00 1
===== CHANNEL f1 =====
NUC1 13C
P1 13.00 usec
PL1 0.00 dB
STOL 75.4801253 MHz
===== CHANNEL f2 =====
CPDPRG2 WALTZ16
NUC2 1H
PCPD2 97.00 usec
PL2 0.00 dB
PL12 19.00 dB
STO2 300.1512006 MHz
F3 - Processing parameters
SI 32768
SF 75.4727668 MHz
WDW 0
SSB 0
LB 3.50 Hz
PC 1.40

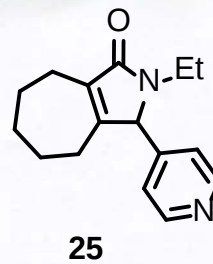




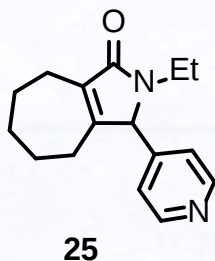
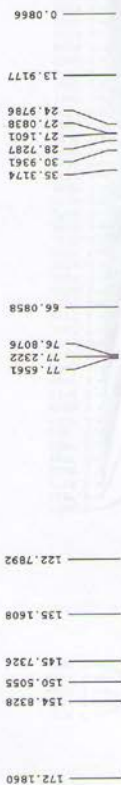
1H SGP05-178



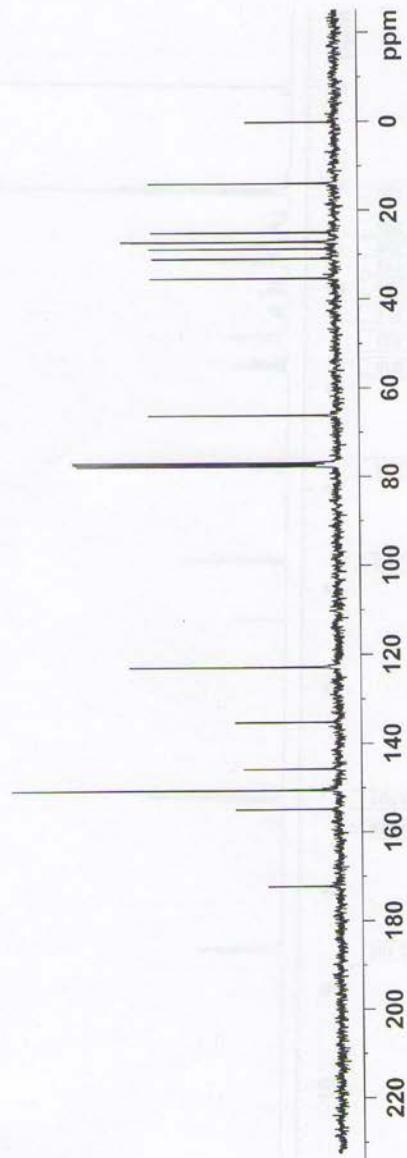
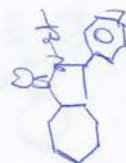
Current Data Parameters
NAME SGP05-178
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100706
Time 17.24
INSTRUM 5 mm QNP 1H/13
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 2
SWH 5995.204 Hz
FIDRES 0.182953 Hz
AQ 2.7329011 sec
RG 83.100 usec
DE 6.50 usec
TE 290.2 K
D1 2.0000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499860 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



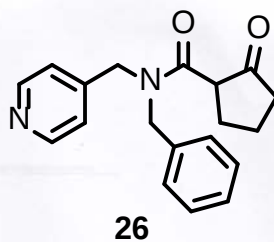
13C SGP05-178



Current Data Parameters
NAME SGP05-178
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100706
Time 17.35
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
DS 106
SWH 15940.080 Hz
FIDRES 0.304567 Hz
AQ 1.641152 sec
RG 327.5
DM 25.050 usec
DE 6.550 usec
TE 290.2 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.03000000 sec
d13 0.03000000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 101.626130 MHz
===== CHANNEL f2 =====
NUC2 1H
P2 12.00 usec
PL2 0.00 dB
SFO2 300.1312006 MHz
===== Processing parameters =====
SI 32768
SF 300.1312006 MHz
WDW 75.472000
SSB 0
GB 0
PC 1.40



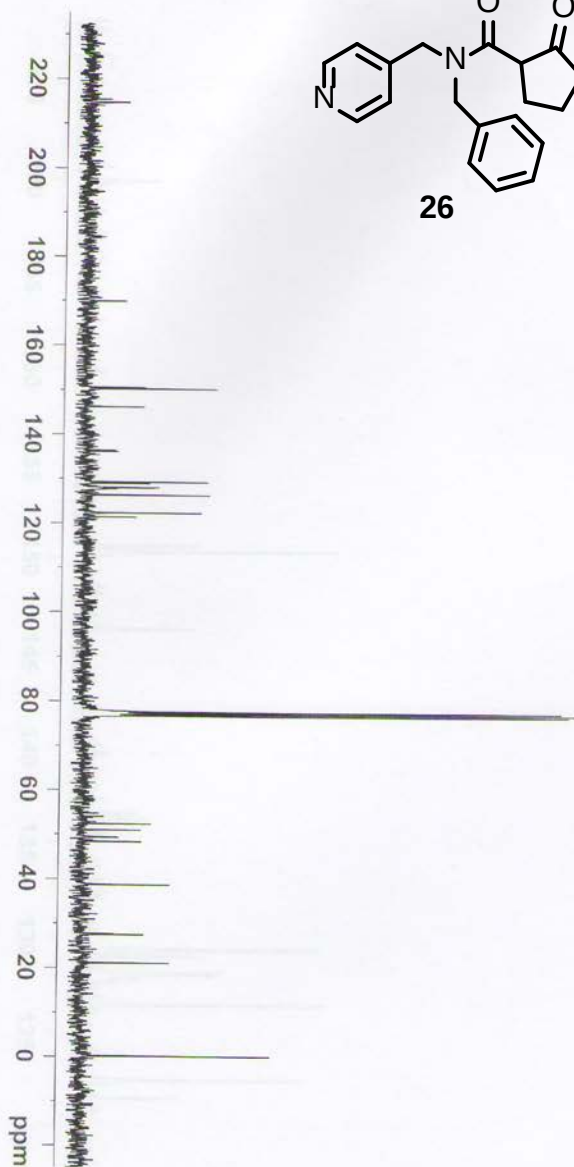
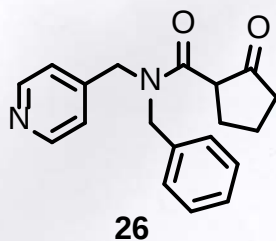
1H SGP04-19-rxn1-



Current Data Parameters
NAME SGP04-19-rxn1-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110507
Time 17.50
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 19.985300 MHz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 256
RW 83.400 usec
AQ 2.7329011 sec
F2 - Processing parameters
SI 32768
SF 300.150003 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



13C SGP04-19-rxn1-

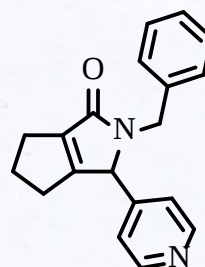


Current Data Parameters
NAME SGP04-19-rxn1-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100907
Time 17:55
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
PCPDPRG2 zgpg30
SOLVENT CDCl3
NS 257
DS 4
SWH 19960.066 Hz
FIDRES 0.304667 Hz
AQ 0.0355555 sec
RG 327.5
WDW EM
SSB 0
LB 25.000 usec
GB 0
TE 298.2 K
DE 2.00 usec
DI 1
D1 1.00000000 sec
TDO 0.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 13C
P1 13.00 usec
PL1 0.00 dB
SFO1 75.480163 MHz
===== CHANNEL f2 =====
NAME f2
CPDPRG2 waltz16
NUC2 1H
P2 8.00 usec
PL2 0.00 dB
PCPDPRG2 zgpg30
SFO2 300.1512006 MHz
F2 - Processing parameters
SI 32768
SF 75.477250 MHz
WDW EM
SSB 0
LB 3.50 Hz
GB 0
TE 298.2 K
DE 2.00 usec
DI 1
D1 1.00000000 sec
TDO 0.00000000 sec

1H SGP05-185



Current Data Parameters
 NAME SGP05-185
 EXPNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20100803
 Time_ 11.36
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 2
 DS 1
 SWH 5995.204 Hz
 FIDRES 0.132254 Hz
 AQ 2.7329011 sec
 RG 114
 DW 83.400 usec
 DE 6.50 usec
 DI 2.00 usec
 D1 2.00000000 sec
 T1D 1
 CHANNEL f1
 NUC1 13C
 P1 9.00 usec
 PL1 -0.50 dB
 SFO1 300.1524012 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1499980 MHz
 WDW EM
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

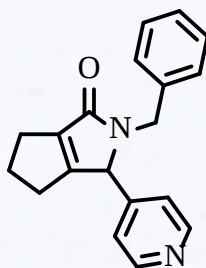


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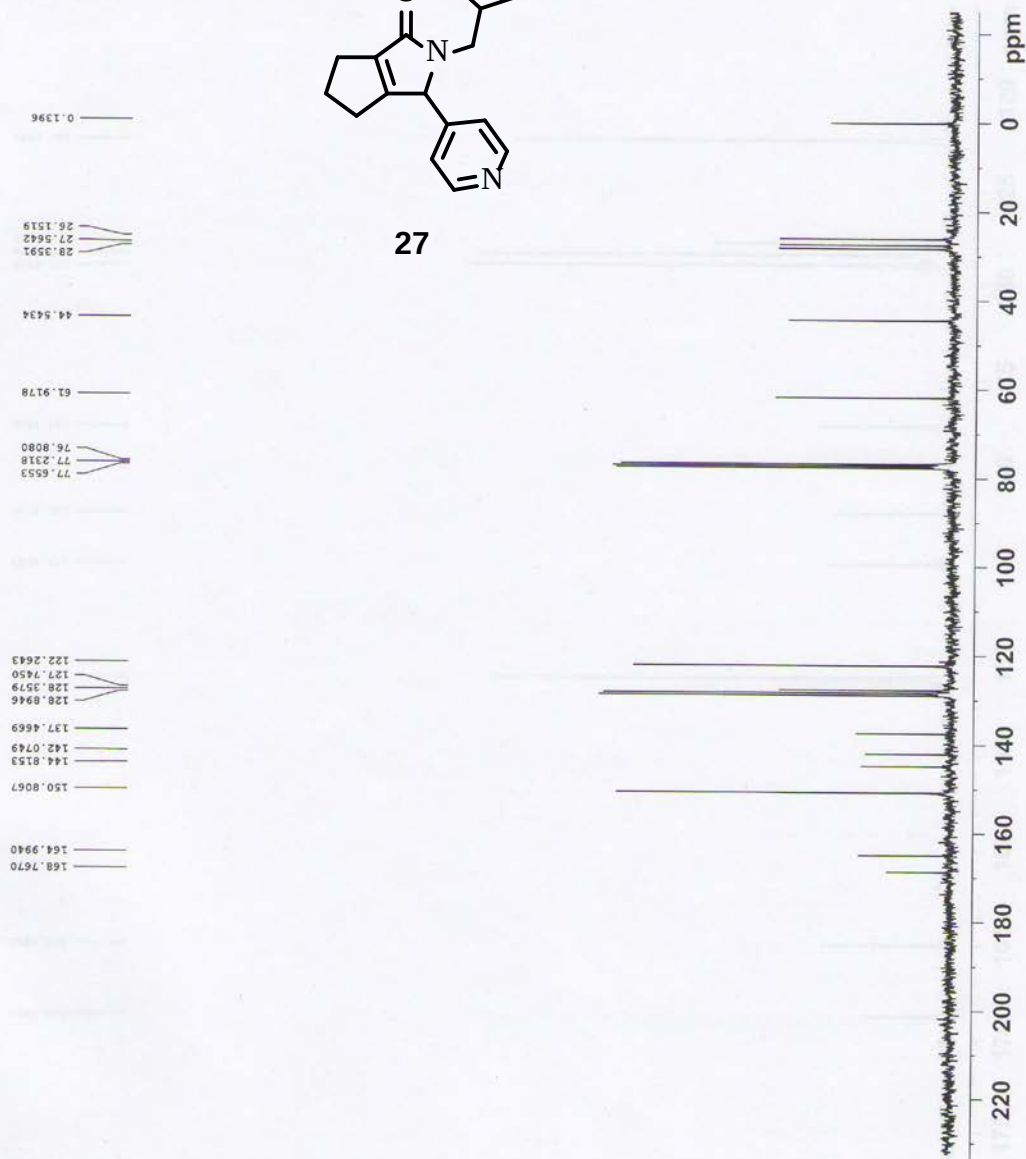
13C SGP05-185



Current Data Parameters
 NAME: SGP05-185
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_ Time: 20100903 11:50
 Experiment: 13C
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: CDCl3
 NS: 178
 DS: 4
 SWH: 19960.030 Hz
 FIDRES: 0.304557 Hz
 AQ: 1.641259 sec
 RG: 327.5
 DM: 25.050 usec
 DE: 6.50 usec
 TE: 300.2 K
 D1: 1.00000000 sec
 d11: 1.10000000 sec
 DELTA: 0.00000000 sec
 ===== CHANNEL f1 =====
 NUC1: 13C
 P1: 9.50 usec
 PL1: 0.00 dB
 SFO1: 75.480233 MHz
 ===== CHANNEL f2 =====
 CPMRG2: waltz16
 NUC2: 1H
 P2: 97.00 usec
 PL2: 0.00 dB
 SFO2: 20.00 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 75.472700 MHz
 WDW: EM
 GB: 0
 GR: 0
 PC: 1.40

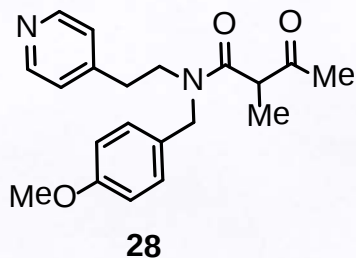


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1H SGP06-37



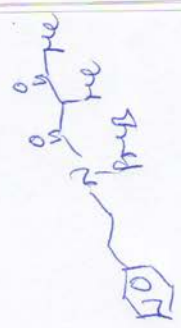
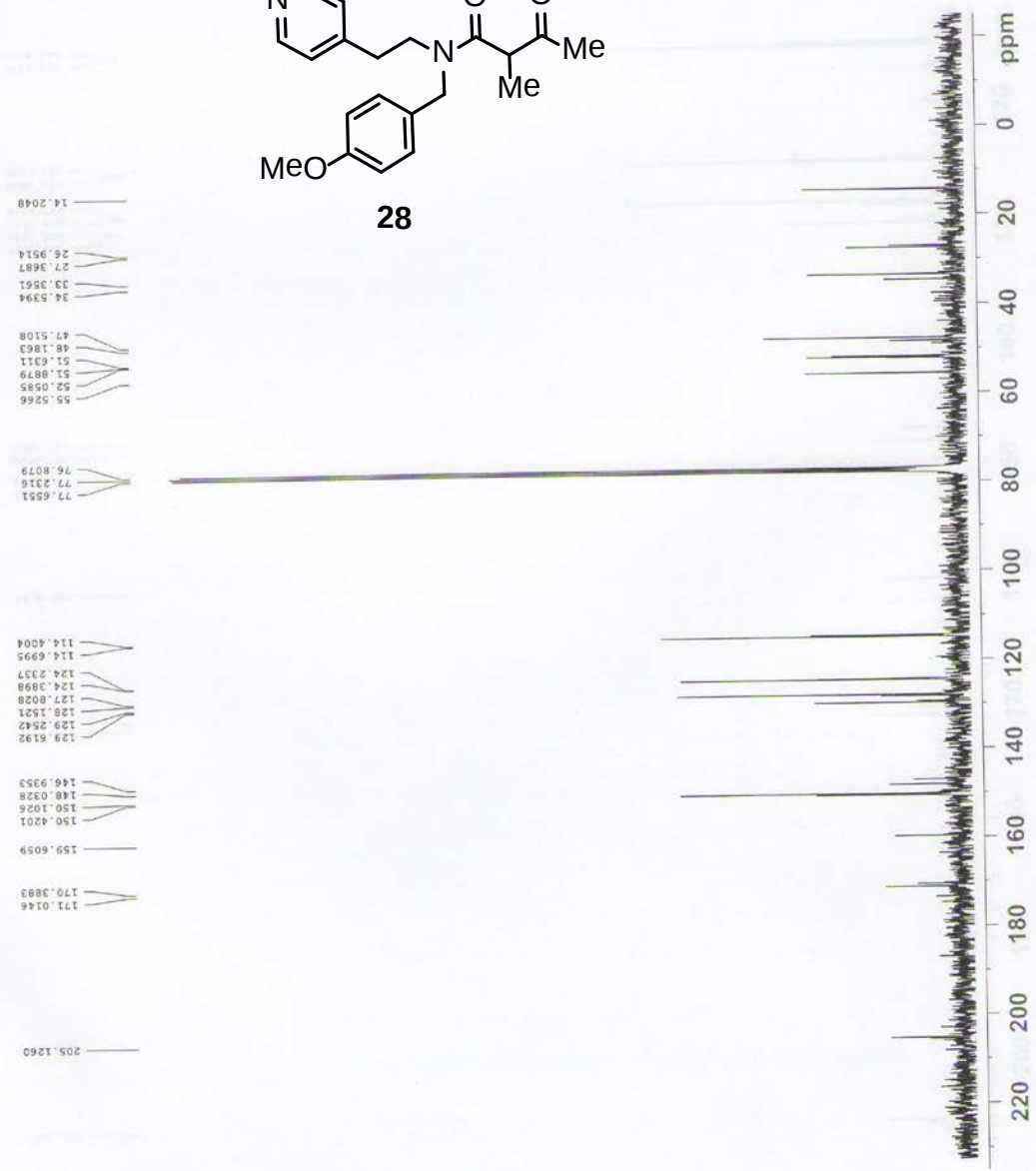
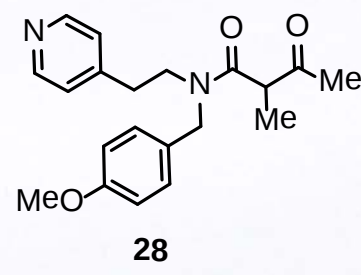
Current Data Parameters
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110210
Time 16:48
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
DS 4
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.722011 sec
RG 181
DE 93.650 usec
TE 303.2 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1500006 MHz
WDW EM
SSB 0
GB 0
PC 1.00





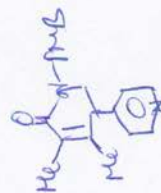
13C SGP06-37

Current Data Parameters
Date_ 20110210
Time_ 11:54:10
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 416
DS 4
SWH 19840.000 Hz
F2IDMS 125.76255 MHz
RG 3276
AQ 0.13245600 sec
RG 3276
DM 25.000000 sec
TE 303.2 K
D1 1.00000000 sec
d11 0.05000000 sec
TDO 1
===== CHANNEL f1 =====
NUC1 13C
P1 9.50000000 sec
PL1 0.00 dB
SFO1 75.4803253 MHz
===== CHANNEL f2 =====
C13P002 wait16
SFO2 101.6261815 MHz
P2 97.10000000 sec
PL2 0.00 dB
P3 20.00000000 sec
PL3 0.00 dB
SFO2 300.1312899 MHz
F2 - Processing parameters
SI 32768
SF 75.477424 MHz
WDW EM
SSB 0
GB 0
PC 1.40

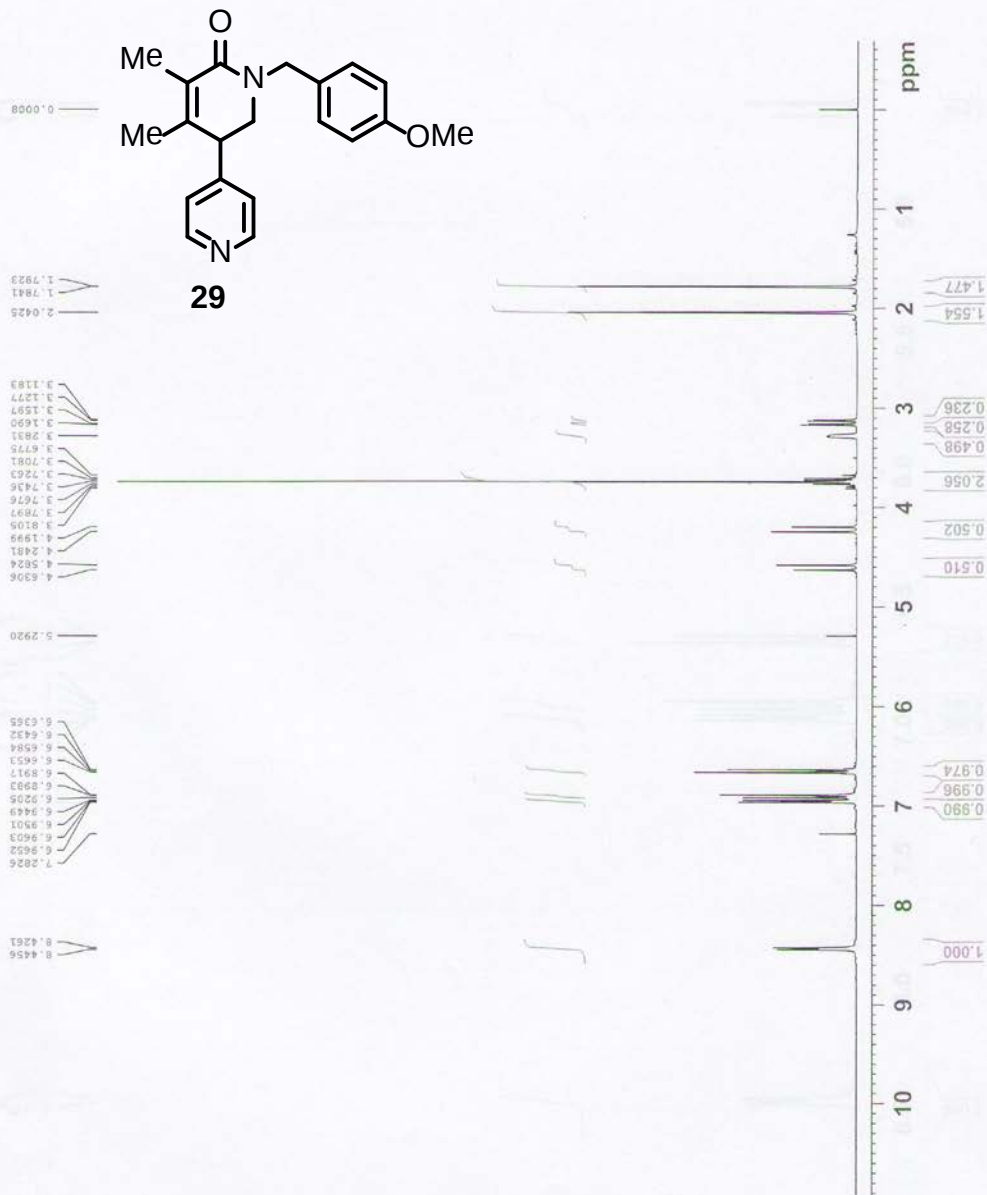




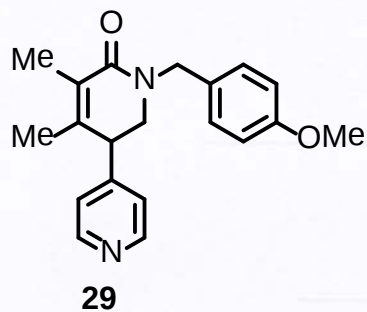
Current Data Parameters
NAME: 1H SGP06-42
EXPNO: 1
PROCNO: 1
F2 - Acquisition Parameters
Date_: 20110210
Time: 16.17
INSTRUM: spect
PROBHD: 5 mm QNP 1H/13
PULPROG: zgpg30
TD: 32768
SOLVENT: CDCl3
NS: 1
DS: 1
SWH: 5995.204 Hz
FIDRES: 0.182959 Hz
AQ: 2.7329011 sec
RG: 128
CQ: 1.00 usec
DE: 16.50 usec
TE: 303.2 K
D1: 2.0000000 sec
TD0: 1
===== CHANNEL f1 =====
NUC1: 1H
P1: 9.00 usec
PL1: -0.50 dB
SFO1: 300.1524012 MHz
F2 - Processing parameters
SI: 16384
SF: 300.1499984 MHz
WDW: EM
SSB: 0
LB: 0.10 Hz
GB: 0
PC: 1.00



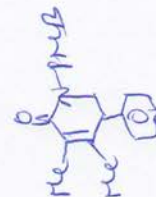
1H SGP06-42



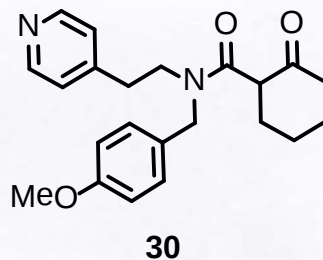
13C SGP06-42



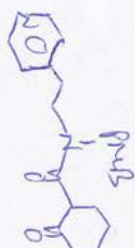
Current Data Parameters
 NAME: SGP06-42
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_ Time: 20110210 16:22
 INSTRUM: spect
 PROBHD: 5 mm QNP 1H/13
 PULPROG: zgpg30
 DVT: zgpg30
 SOLVENT: CDCl3
 NS: 82
 DS: 4
 SWH: 15560.026 Hz
 FIDRES: 0.304567 Hz
 AQ: 1.4117059 sec
 RG: 327.5
 DM: 25.000 usec
 DE: 3.00 usec
 TE: 300.2 K
 O1: 1.00000000 sec
 T2: 0.00000000 sec
 T22: 0.00000000 sec
 T23: 0.00000000 sec
 ===== CHANNEL f1 =====
 NU1: 13C
 P1: 12.00 usec
 PL1: 0.00 dB
 SFO1: 75.4803253 MHz
 ===== CHANNEL f2 =====
 CPDPRG2: waltz16
 NU2: 1H
 P2: 12.00 usec
 PL2: 0.00 dB
 SFO2: 300.1312006 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 75.4727681 MHz
 WDW: EM
 SSB: 0
 CB: 0
 GB: 0
 PC: 1.40



1H SGP05-275-3



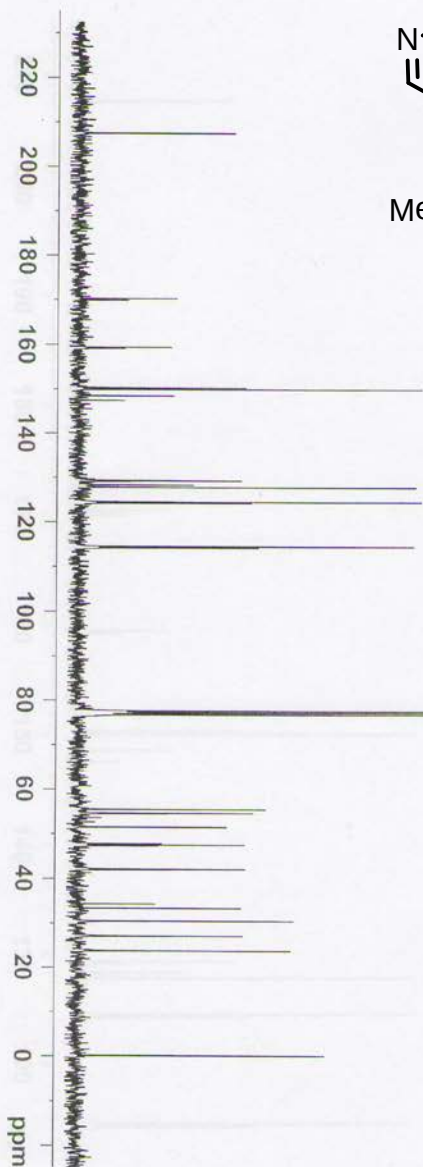
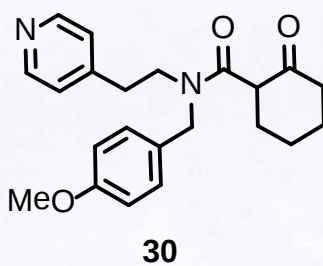
Current Data Parameters
 NAME SGP05-275-3
 EXTNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20101216
 Time 13.58
 INSTRUM spect
 PROBU 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 1
 DS 4
 SSF 5995.204 Hz
 FIDRES 0.102359 Hz
 AQ 2.7329011 sec
 RG 101.6
 DW 83.400 usec
 DE 1450 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 1
 F2 - Processing parameters
 SI 32768
 SF 300.149984 MHz
 WDW EN
 SSB 0
 LB 0.00 Hz
 GB 1.00
 PC 1



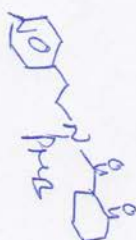
13C SGP05-275-3



207.5671
170.2932
169.9302
159.4450
159.1705
150.3315
149.9894
148.5354
147.4806
129.3330
128.3457
127.8112
124.5116
124.2502
114.5577
114.2491
77.6611
77.2373
76.8136
55.4831
54.6509
54.5287
51.5349
47.8466
47.5866
47.3690
42.1375
42.0344
34.4182
33.4167
30.5268
27.0956
23.7704
0.1506

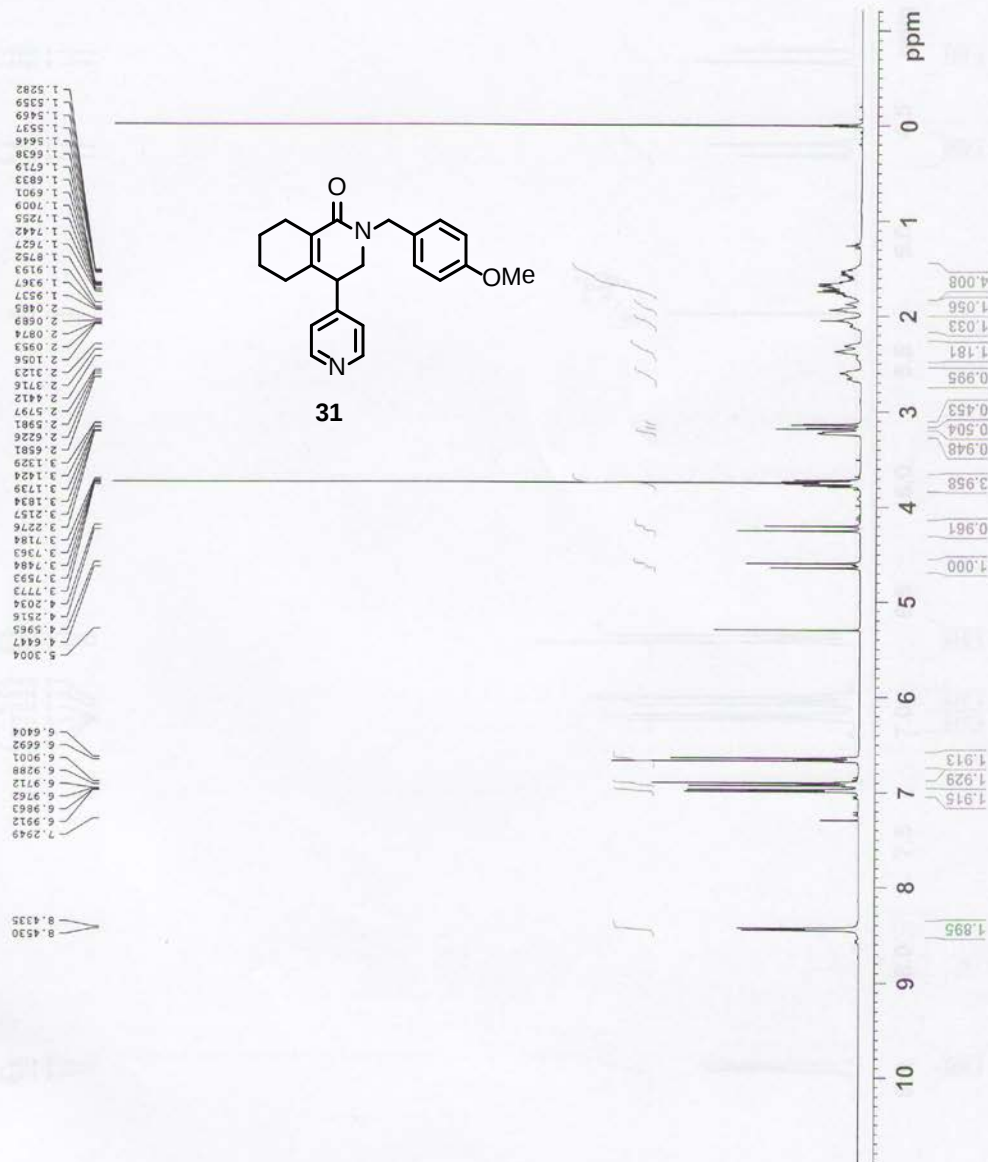


Current Data Parameters
 EXPNO 2
 F2 - Acquisition Parameters
 Date_ 20101216
 Time 18:05:30
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 P1 12.00
 PD 0.00
 TO 65536
 SOLVENT CDCl3
 DS 276
 SS 14.0
 SWH 19950.080 Hz
 FIDRES 0.401587 Hz
 AQ 2.0444756 sec
 RG 663
 DWT 13004
 DE 1.00
 TE 298.2 K
 F2 - Processing parameters
 SI 32768
 SF 101.626030 MHz
 D1 0.10000000 sec
 T1 1.50000000 sec
 T1RHO 0.1
 ===== CHANNEL f1 13C =====
 NU1 1
 PR1 1
 P1 9.50 usec
 PL1 0.00 dB
 SFO1 75.4803233 MHz
 ===== CHANNEL f2 1H =====
 CPDPRG2 waltz16
 NU2 1
 PR2 1
 P2 12.00 usec
 PL2 0.00 dB
 SFO2 500.1320000 MHz
 F2 - Processing parameters
 SI 32768
 SF 500.132000 MHz
 D1 0.10000000 sec
 T1 1.50000000 sec
 T1RHO 0.1
 ===== CHANNEL f3 1H =====
 CPDPRG2 waltz16
 NU3 1
 PR3 1
 P3 12.00 usec
 PL3 0.00 dB
 SFO3 500.1320000 MHz
 F3 - Processing parameters
 SI 32768
 SF 500.132000 MHz
 D1 0.10000000 sec
 T1 1.50000000 sec
 T1RHO 0.1

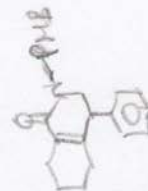




1H SGP06-15-fr2



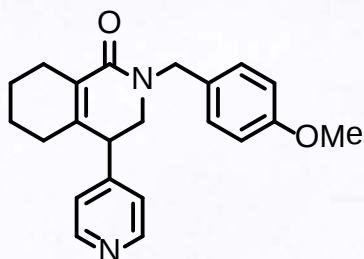
Current Data Parameters
 Name: SGP06-15-fr2
 EXPNO: 1
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 20110113
 Time: 10:54
 INSTRUM: spect
 PROBRD: 5 mm QNP 1H/13
 PULPROG: zgpg30
 TD: 32768
 SOLVENT: CDCl3
 DS: 1
 SWH: 5995.204 Hz
 FIDRES: 0.182959 Hz
 AQ: 2.7329011 sec
 RG: 819.6
 DE: 8.14000000 sec
 TE: 289.2 K
 D1: 2.00000000 sec
 TDO: 1
 CHANNEL f1: 1H
 NUC1: 1H
 P1: 9.00 usec
 PL1: -0.50 dB
 SFO1: 300.1524012 MHz
 F2 - Processing parameters
 SI: 16384
 SF: 300.1499847 MHz
 WDW: EM
 SSB: 0
 LB: 0.00 Hz
 GB: 0
 PC: 1.00



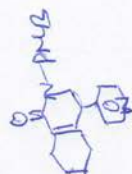
13C SGP06-15-fr-2

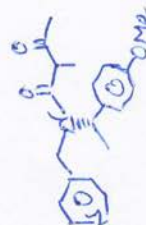
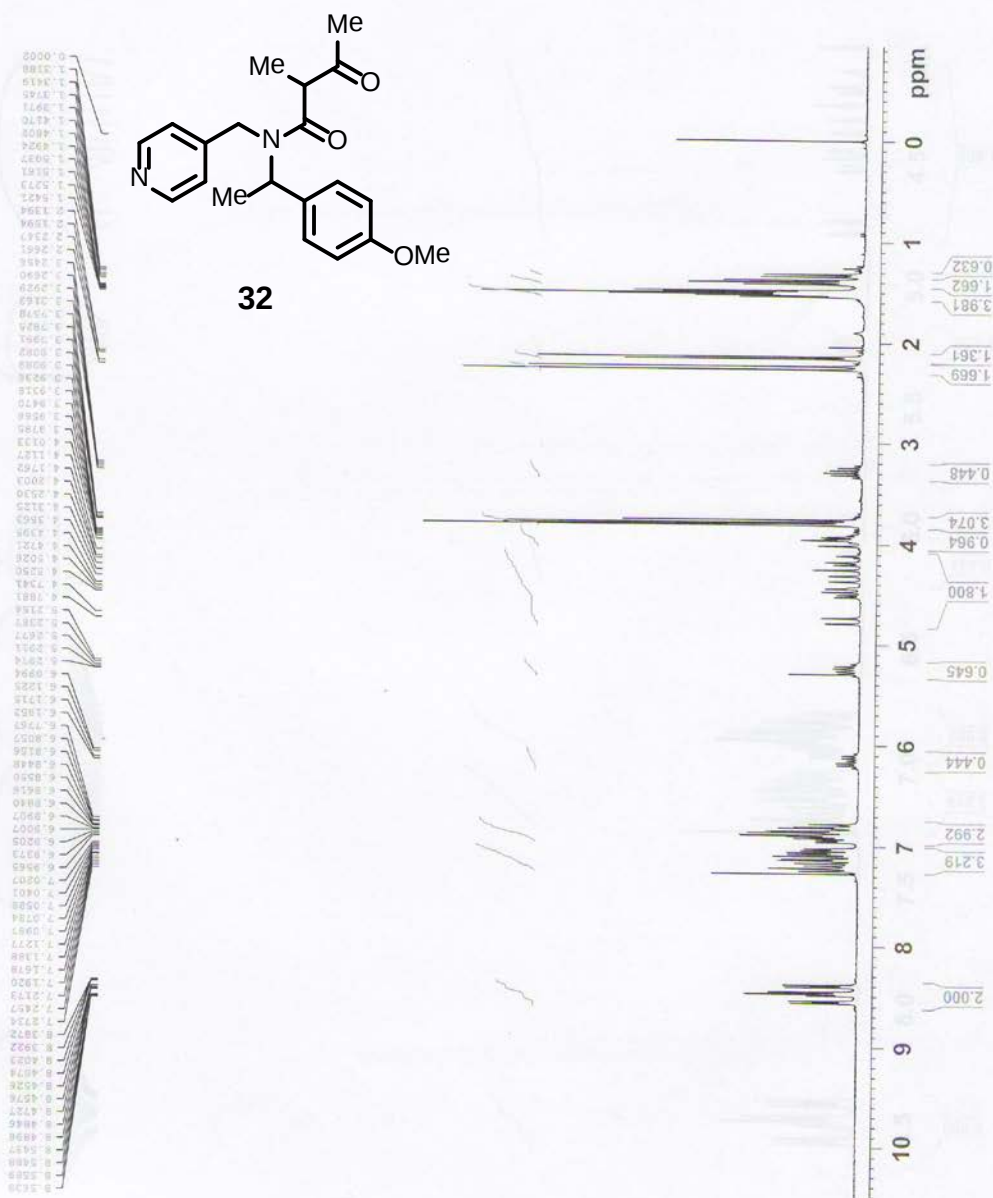


Current Data Parameters
 NAME SGP06-15-fr-2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20101005
 Time 10.42
 INSTR spect
 PROBN 5 mm QNP
 PULPROG zgpg30
 FOLPROG zgpg30
 TO 121
 SOLVENT dms
 NS 121
 DS 4
 SS 1990.016 Hz
 FIDRES 0.304567 Hz
 AQ 1.6617269 sec
 RG 327.68
 DM 25.000 usec
 DE 3.50 usec
 TE 300.2 K
 D1 1.00000000 sec
 d11 109
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.30 usec
 PL1 0.00 dB
 SFO1 75.4803253 MHz
 ===== CHANNEL f2 =====
 NUC2 1H
 P2 19.00 usec
 PL2 0.00 dB
 SFO2 300.1352005 MHz
 F2 - Processing parameters
 SI 327.68
 SF 75.4727683 MHz
 GB 0
 CB 3.50 Hz
 GB 0
 PC 1.40



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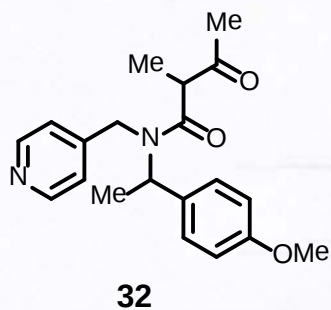




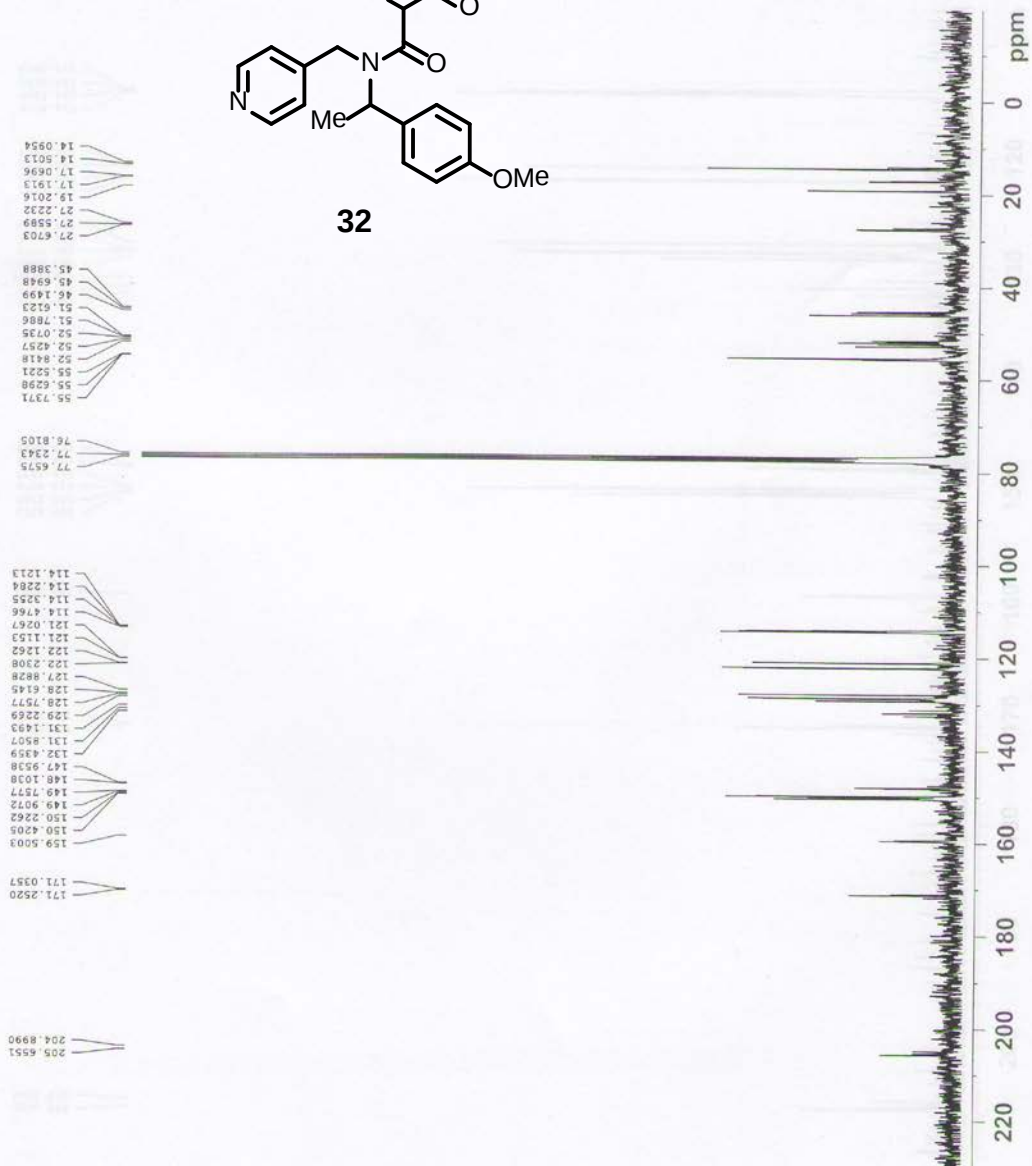


Current Data Parameters
NAME: SGP06-81
EXPNO: 2
PROCNO: 1

F2 - Acquisition Parameters
Date_ Time: 20110111 14.12
INSTRUM: spect
PROBHD: 5 mm QNP 1H/13
PULPROG: zgpg30
TD: 65536
SOLVENT: CDCl3
NS: 778
DS: 4
AQ: 1.99500000 Hz
F2: 125.760313 MHz
F1: 0.3141567 MHz
AQ: 1.6417269 sec
RG: 327.500
RG2: 327.500
RG3: 327.500
RG4: 327.500
RG5: 327.500
RG6: 327.500
RG7: 327.500
RG8: 327.500
RG9: 327.500
RG10: 327.500
RG11: 327.500
RG12: 327.500
RG13: 327.500
RG14: 327.500
RG15: 327.500
RG16: 327.500
RG17: 327.500
RG18: 327.500
RG19: 327.500
RG20: 327.500
RG21: 327.500
RG22: 327.500
RG23: 327.500
RG24: 327.500
RG25: 327.500
RG26: 327.500
RG27: 327.500
RG28: 327.500
RG29: 327.500
RG30: 327.500
RG31: 327.500
RG32: 327.500
RG33: 327.500
RG34: 327.500
RG35: 327.500
RG36: 327.500
RG37: 327.500
RG38: 327.500
RG39: 327.500
RG40: 327.500
RG41: 327.500
RG42: 327.500
RG43: 327.500
RG44: 327.500
RG45: 327.500
RG46: 327.500
RG47: 327.500
RG48: 327.500
RG49: 327.500
RG50: 327.500
RG51: 327.500
RG52: 327.500
RG53: 327.500
RG54: 327.500
RG55: 327.500
RG56: 327.500
RG57: 327.500
RG58: 327.500
RG59: 327.500
RG60: 327.500
RG61: 327.500
RG62: 327.500
RG63: 327.500
RG64: 327.500
RG65: 327.500
RG66: 327.500
RG67: 327.500
RG68: 327.500
RG69: 327.500
RG70: 327.500
RG71: 327.500
RG72: 327.500
RG73: 327.500
RG74: 327.500
RG75: 327.500
RG76: 327.500
RG77: 327.500
RG78: 327.500
RG79: 327.500
RG80: 327.500
RG81: 327.500
RG82: 327.500
RG83: 327.500
RG84: 327.500
RG85: 327.500
RG86: 327.500
RG87: 327.500
RG88: 327.500
RG89: 327.500
RG90: 327.500
RG91: 327.500
RG92: 327.500
RG93: 327.500
RG94: 327.500
RG95: 327.500
RG96: 327.500
RG97: 327.500
RG98: 327.500
RG99: 327.500
RG100: 327.500



13C SGP06-81



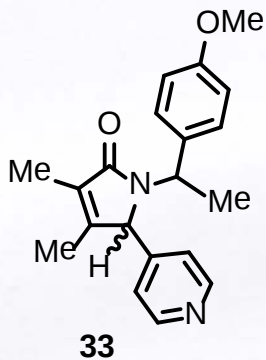


Current Data Parameters
NAME SGP06-89-fr1
EXPNO 1
PROCNO 1

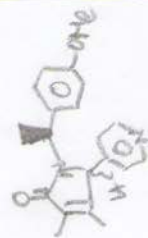
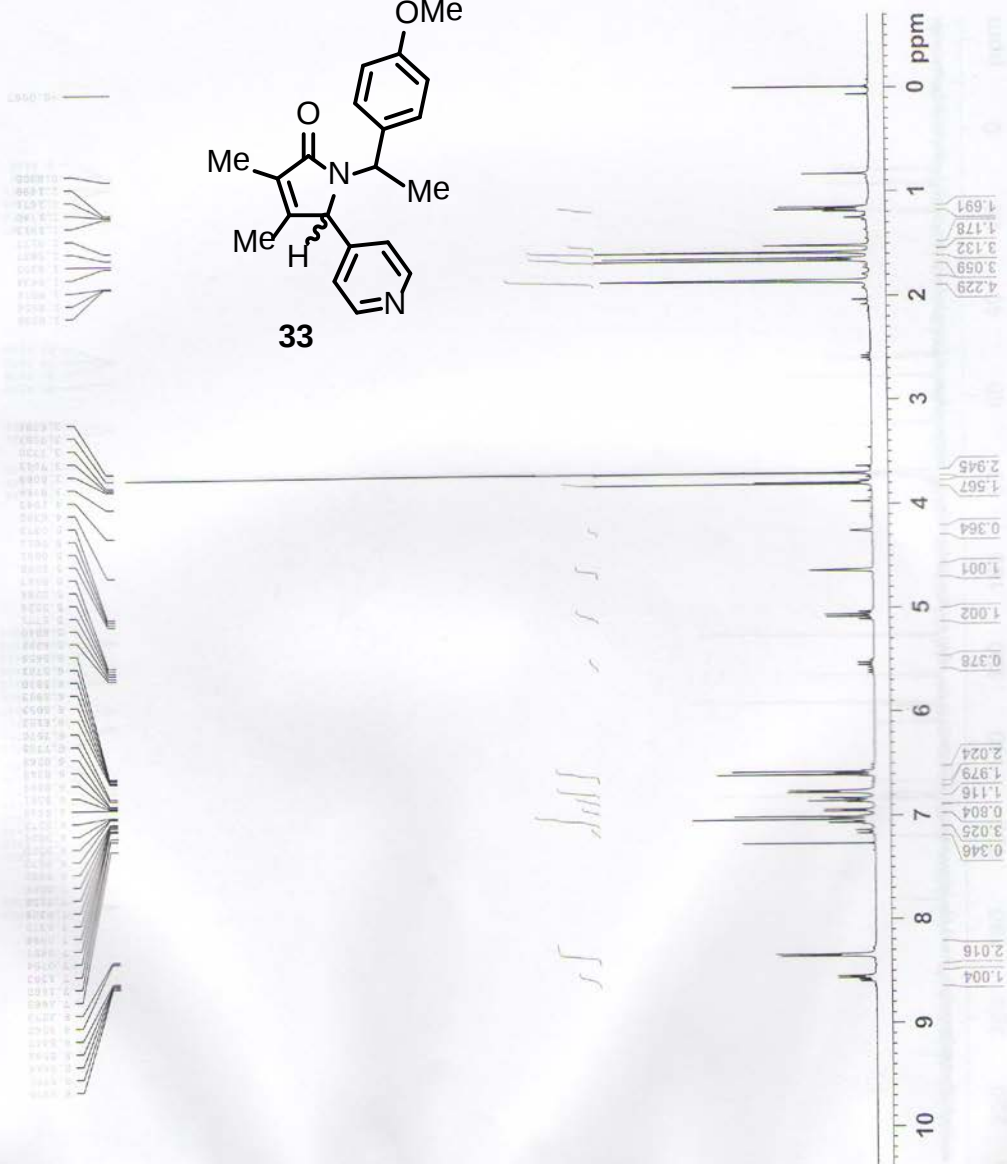
F2 - Acquisition Parameters
Date_ 20110405
Time 15.21
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.200 Hz
AQ 0.2559 sec
RG 2.732501 sec
RG 256
DE 83.400 usec
TE 300.2 K
TD 65536
FIDRES 0.000000 sec

CHANNEL f1
NUC1 1H
P1 12.00 usec
PL1 0.00 dB
SFO1 300.1524012 MHz

F2 - Processing parameters
SI 32768
SF 300.1500000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

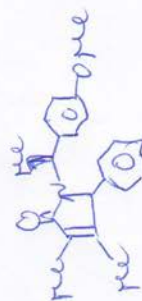
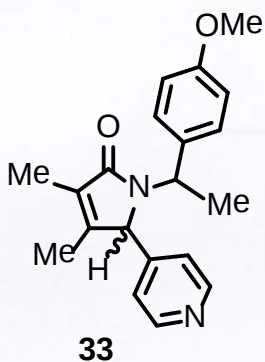


1H SGP06-89-fr1





13C SGP06-89-fr-1

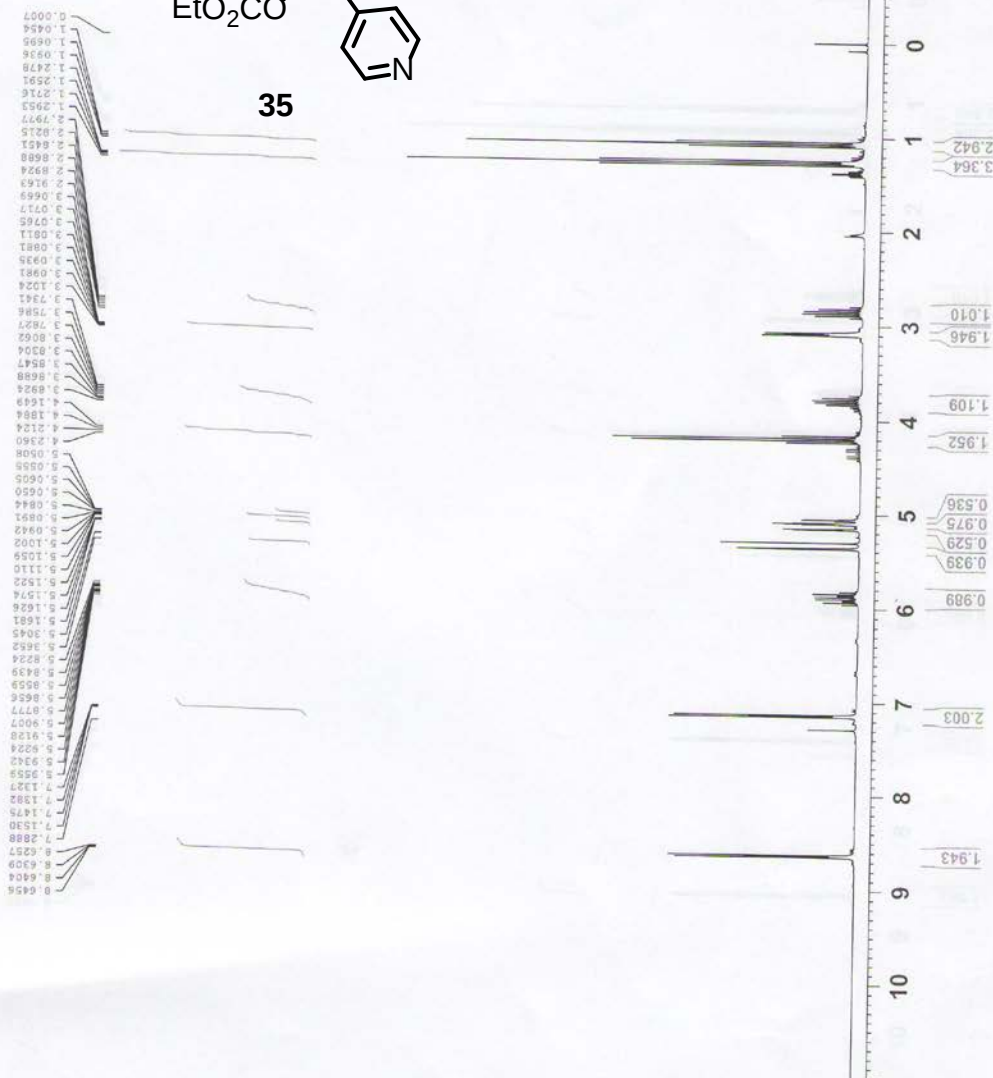


Current Data Parameters
Date_ 20110405
Time_ 14:00:00
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110405
Time_ 14:00:00
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
FIDRES 0.0000
AQ 0.0000
SOLVENT CDCl3
NS 16
DS 4
SWH 15960.080 Hz
FIDRES 0.0000 Hz
AQ 0.0000 sec
RG 11985.2
RG 1.611269 sec
RG 6.50 usec
TE 298.2 K
DE 1.2000000 sec
C1 1
C2 0.0300000 sec
T1 0
T1 0.0300000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 8.00 usec
PL1 0.00 dB
SFO1 75.4803253 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 8.00 usec
PL2 0.00 dB
PL12 0.00 dB
PL13 0.00 dB
SFO2 300.135094 MHz
F2 - Processing parameters
SI 32768
SF 75.4726256 MHz
WDW EM
SS 0
LB 3.50 Hz
GB 0
PC 1.00





1H SGP06-62-rxn2-f1

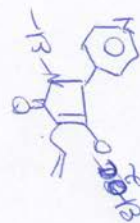


Current Data Parameters
NAME SGP06-62-rxn2-f1
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20110309
Time 20:20
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 327.68
DE 6.50 usec
TE 298.2 K
D1 2.0000000 sec
D11 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz

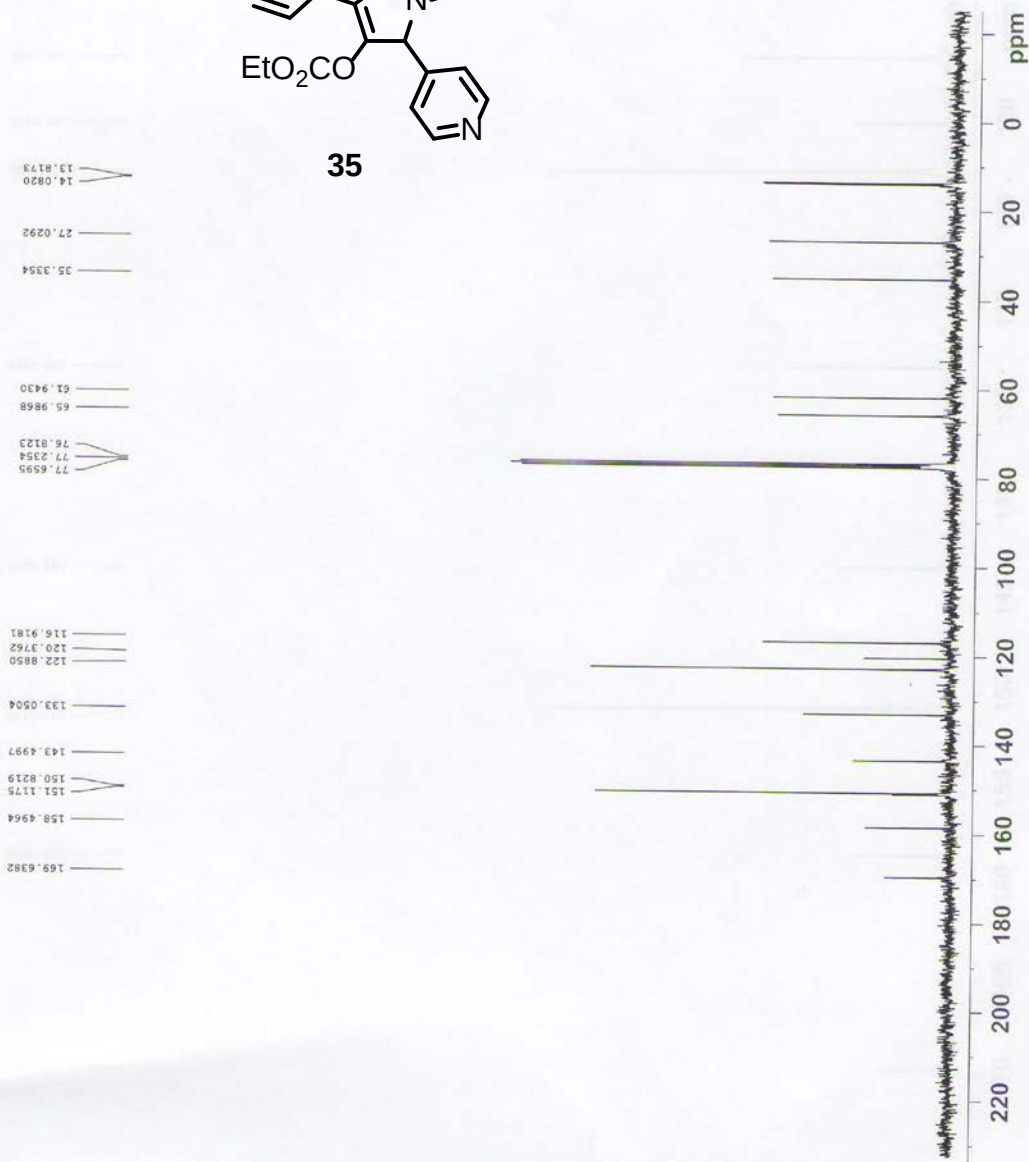
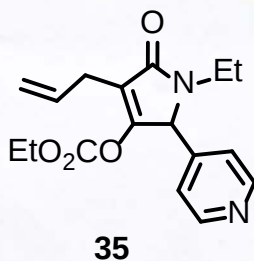
F2 - Processing parameters
SI 16384
SF 300.1499966 MHz
WDW EM
SSB 0
LB 0 Hz
GB 0
PC 1.00



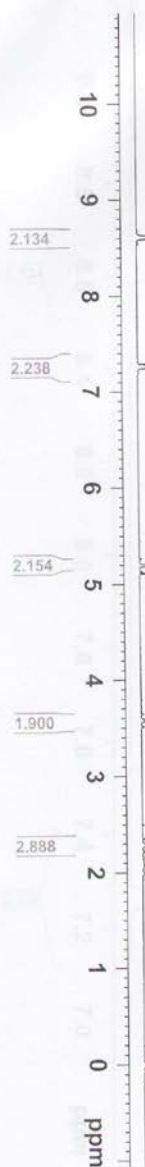
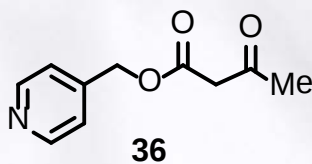
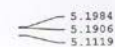
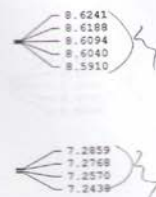
13C SGP06-62-rxn2-fr1



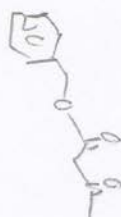
Current Data Parameters
NAME SGP06-62-rxn2-fr1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110309
Time 20.24
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 254
DS 4
SWH 19960.080 MHz
FIDRES 0.304567 Hz
AQ 1.641892 sec
RG 611.2
DWF 25.050 usec
TE 296.2 usec
U1 1.00000000 sec
U2 0.33000000 sec
TAD 1
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.469253 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 87.00 usec
PL2 0.00 dB
PL12 20.00 dB
SFO2 300.1512006 MHz
F2 - Processing parameters
SI 32768
SF 300.1512006 MHz
WDW EM
SSB 0
GB 0
PC 1.40



1H SGF05-234-rxn1-



Current Data Parameters
NAME SGF05-234-rxn1-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110507
Time 17.36
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 2
DS 2
SS 5995.204 Hz
FIDRES 0.162859 Hz
AQ 2.7329011 sec
RG 203.2
AC 83.400 usec
PC 298.2 K
T1 2.0000000 sec
T1R 1
T1D 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1324012 MHz
F2 - Processing parameters
SI 16384
SF 300.1439577 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





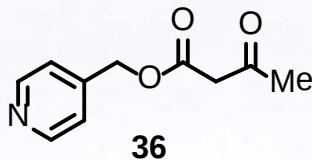
Current Data Parameters
NAME: SGP05-234-rxn1-
EXPNO: 2
PROCNO: 2

F2 - Acquisition Parameters
Date_ 20150707
Time 17:40
PROBHD 5 mm QNP spect
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
DS 4
SHE 1950, 16
AQ 1.641269 sec
RG 327.500
DE 6.50 usec
TE 300.2 K
D1 1.0000000 sec
d11 0.0300000 sec
TD0 1

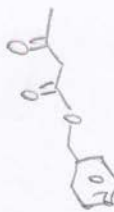
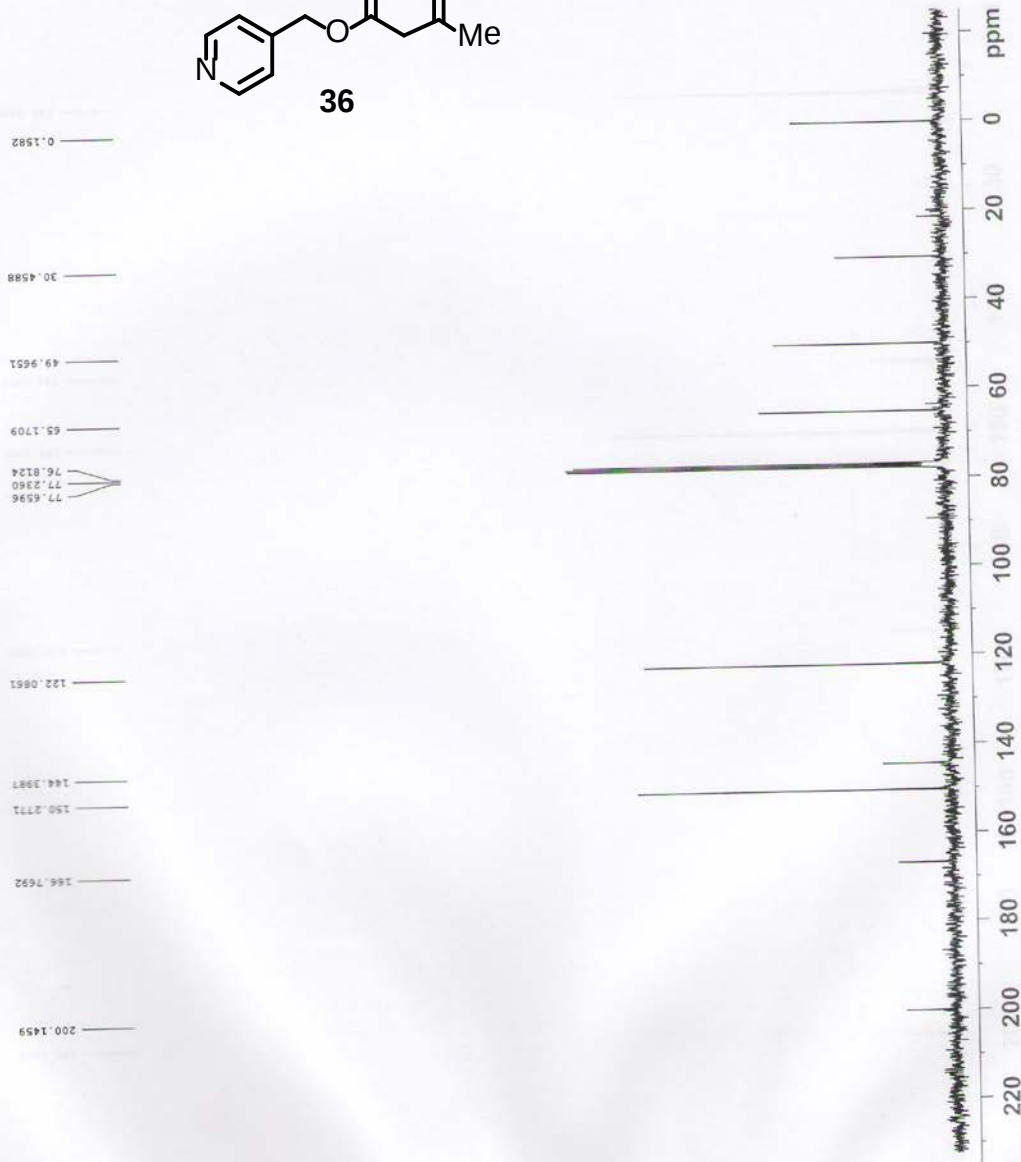
===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 0.00 dB
SFO1 75.4803253 MHz

===== CHANNEL f2 =====
P2 12.00 usec
PL2 0.00 dB
SFO2 300.1512006 MHz

F2 - Processing parameters
SI 32768
SF 75.4727638 MHz
WDW EM
SSB 0
LB 3.50 Hz
GB 0
PC 1.40

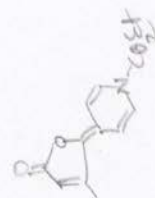


13C SGP05-234-rxn1-

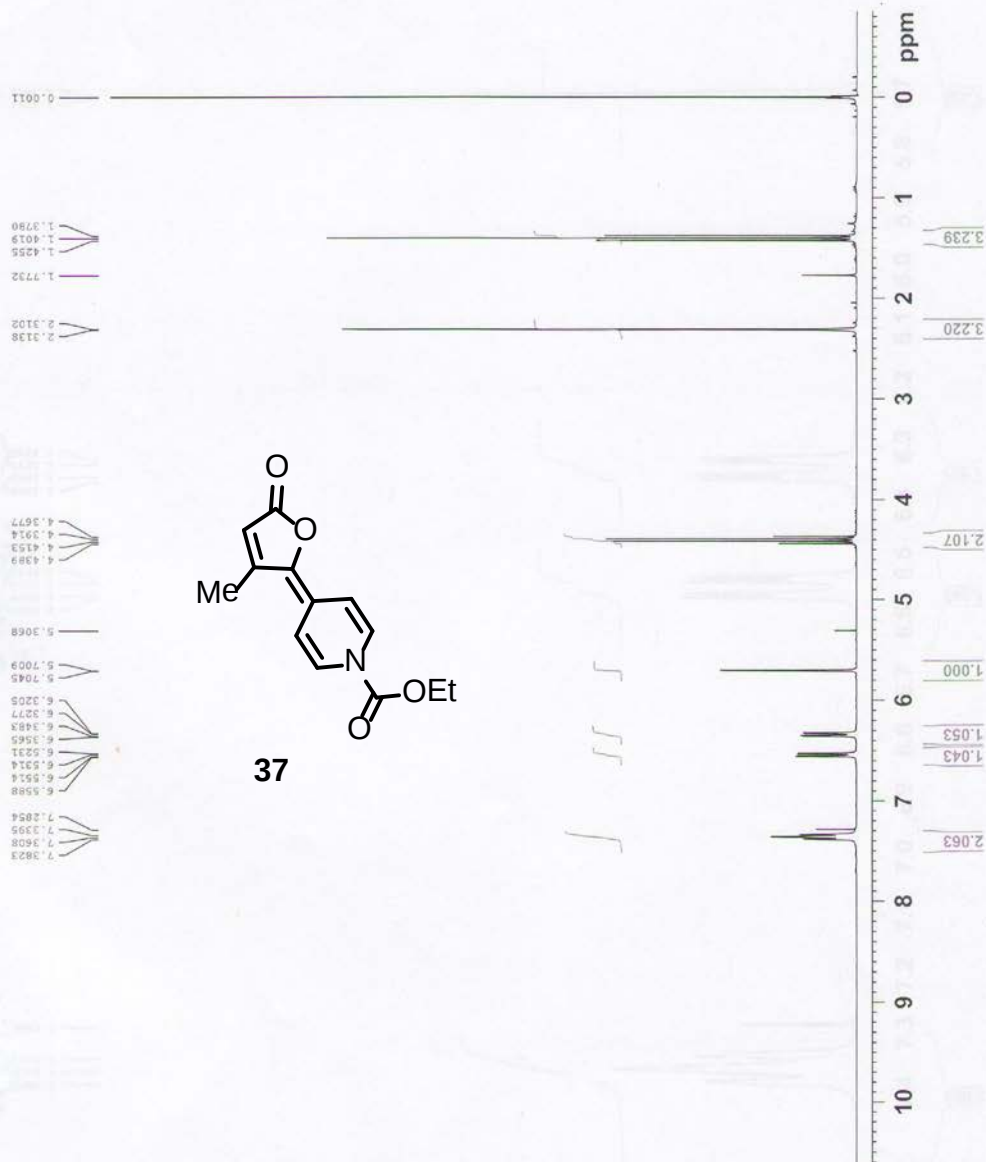


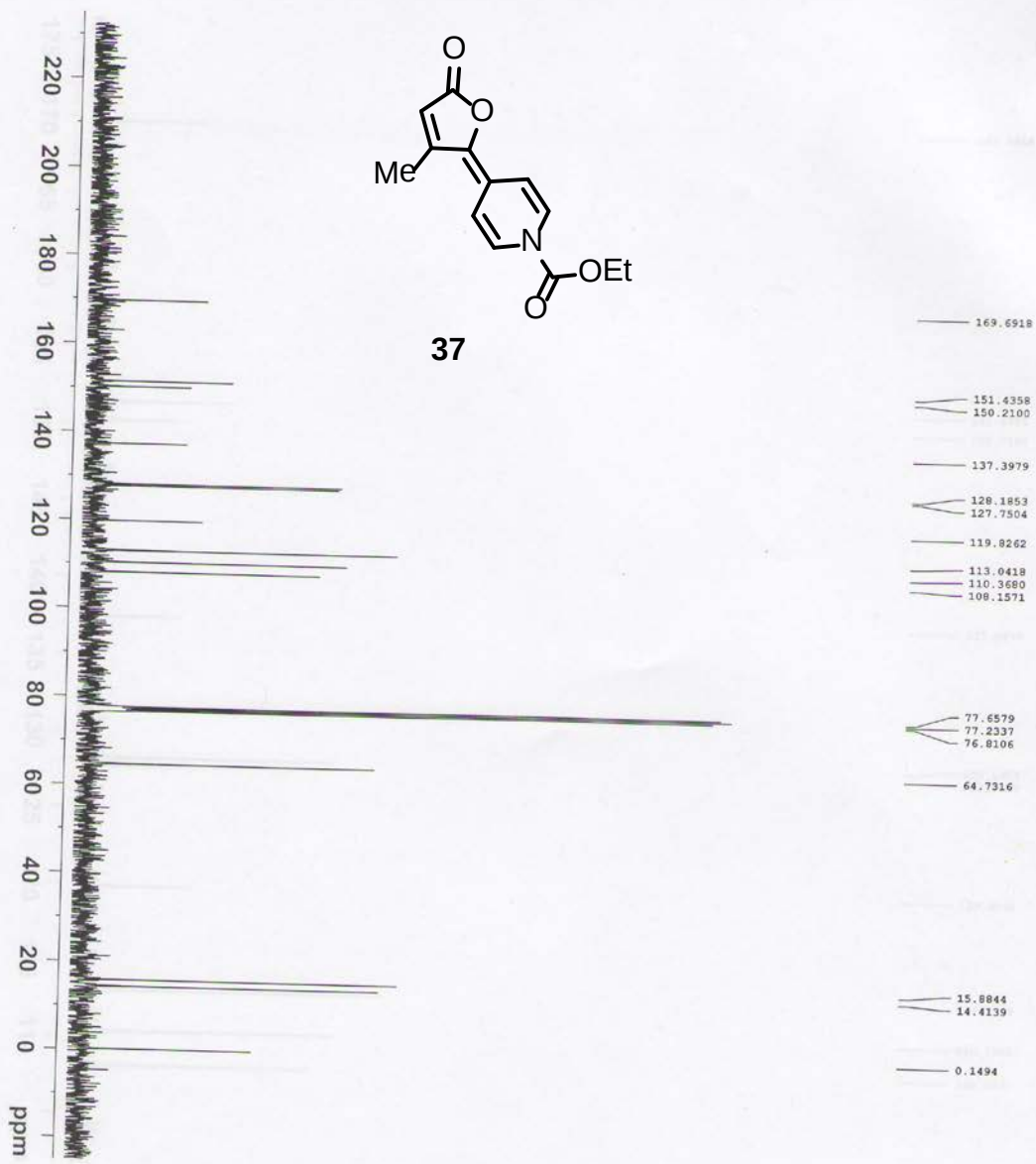


Current Data Parameters
NAME SGP05-251
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20110119
Time 16.41
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 1
DS 1
SWH 5995.204 Hz
FIDRES 0.102959 Hz
AQ 2.7329011 sec
RG 655.5
DN 83.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1
CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499977 MHz
WDW EM
SS 0
LB 0.00 Hz
GB 0
PC 1.00



1H SGP05-251-





Current Data Parameters
NAME 3705-251
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20101019
Time 14.41.51
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
FIDRES 0.001707
AQ 1.6
RG 327.5
DE 1.6
TE 300.2 K
D1 1.90000000 sec
d11 0.03000000 sec
TOD 1

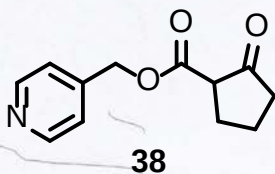
===== CHANNEL f1 =====
NUC1 13C
P 13C
F1 101.3260 MHz
PC 0.00 dB
SFO1 75.4803251 MHz

===== CHANNEL f2 =====
NAME 3705-251
PROCNO 2
F2 - Acquisition Parameters
Date_ 20101019
Time 14.41.51
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
FIDRES 0.001707
AQ 1.6
RG 327.5
DE 1.6
TE 300.2 K
D1 1.90000000 sec
d11 0.03000000 sec
TOD 1

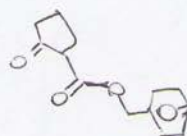
===== CHANNEL f3 =====
NAME 3705-251
PROCNO 3
F3 - Acquisition Parameters
Date_ 20101019
Time 14.41.51
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
FIDRES 0.001707
AQ 1.6
RG 327.5
DE 1.6
TE 300.2 K
D1 1.90000000 sec
d11 0.03000000 sec
TOD 1

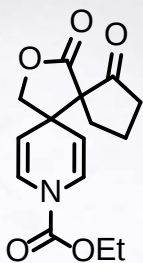


1H SGP04-244-SM-4-py-cp-ester

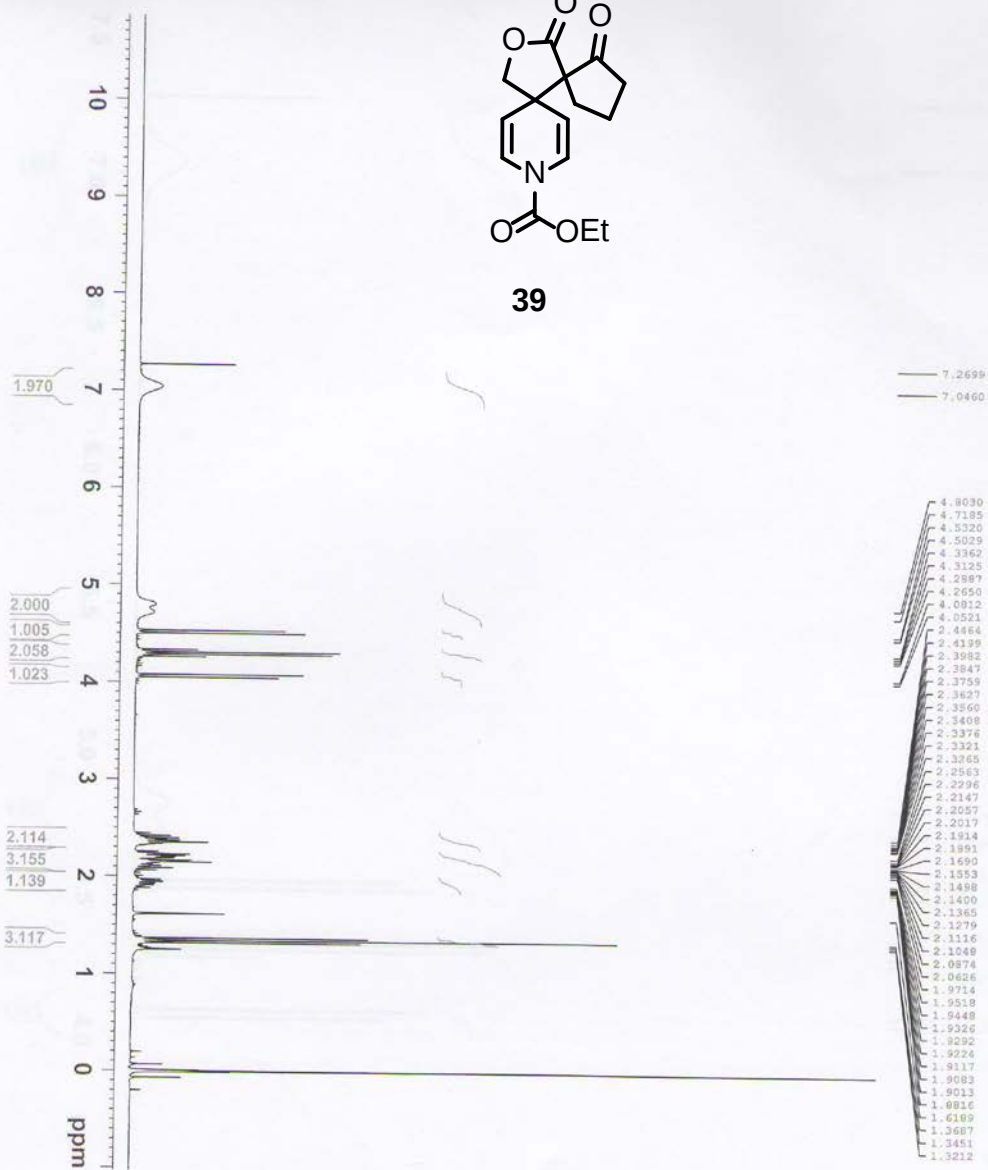


Current Data Parameters
 Date_ 20091112
 Time_ 15:11
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 1
 DS 4
 SWH 5095.204 Hz
 FIDRES 0.091 Hz
 AQ 2.00000000 sec
 RG 327.68
 DE 3.00 um
 TE 300.2 K
 D1 2.00 sec
 D11 0.05 sec
 D12 0.05 sec
 CHANNEL f1 1H
 NUC1 1H
 P1 2.00 usec
 PL1 0 dB
 RF01 300.1324012 MHz
 F2 - Processing parameters
 SI 16384
 SF 300.1459540 MHz
 SD 0
 SSB 0
 GB 0
 CB 0
 PC 1.00





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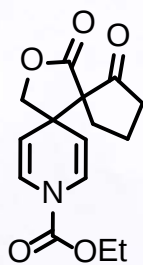
1H SGP04-244-



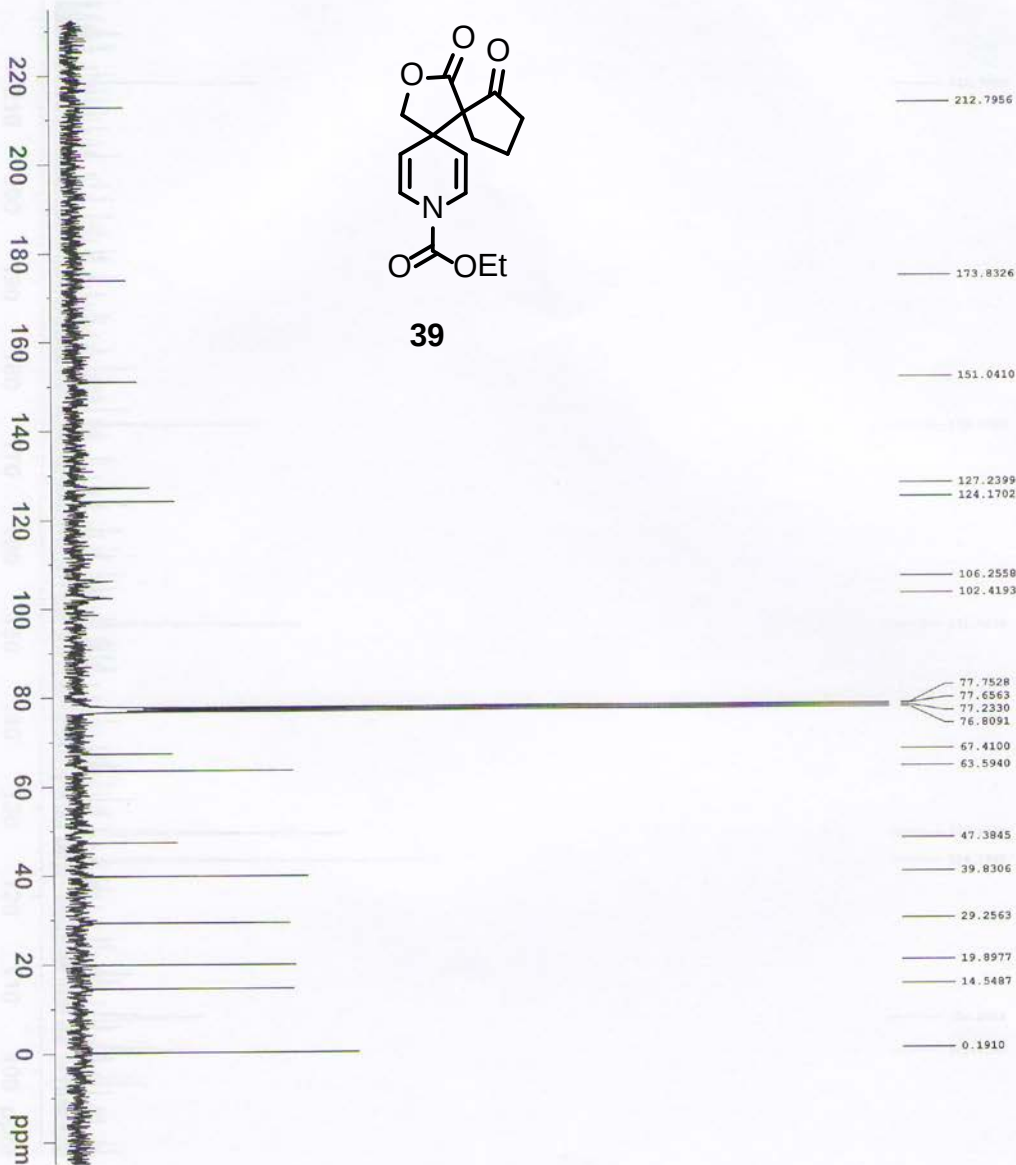
Current Data Parameters
NAME SGP04-244-
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20100907
Time 17.14
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5095.204 Hz
FIDRES 0.238 Hz
AQ 2.7159011 sec
RG 228.1
WE 63.400 usec
DE 6.50 usec
TE 296.2 K
D1 2.0000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 13C
P 9.18 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 32768
SF 300.1500024 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



13C SGP04-244-



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Current Data Parameters
 NAME SGP04-244-
 EXPNO 2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20100909
 Time 17:18
 INSTRUM 5 mm CPY 1H/13
 PULPROG zgpg30
 TOU 65516
 TD 65536
 SFO 125.7611
 NS 302
 DS 3
 FIDRES 19960.028 Hz
 AQ 0.39467 sec
 RG 1.5117269 sec
 CW 21.00 usec
 CR 6.50 usec
 DE 2.00 usec
 DI 1.00000000 sec
 G11 0.01000000 sec
 TDO 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 13.00 usec
 PL1 0.00 dB
 SFO1 75.460213 MHz
 ===== CHANNEL f2 =====
 NUC2 1H
 P2 13.00 usec
 PL2 19.00 dB
 SFO2 300.1312006 MHz
 F2 - Processing parameters
 SI 32768
 SF 75.472768 MHz
 DS 4
 SW 3.50 Hz
 GB 0
 PC 1.40



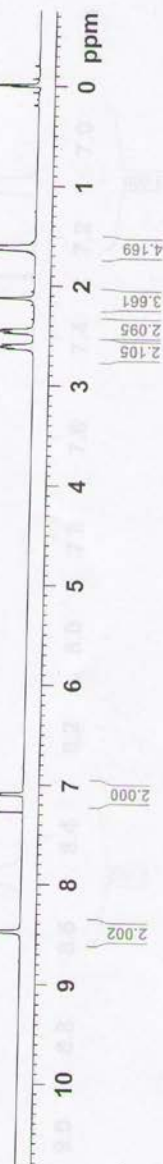
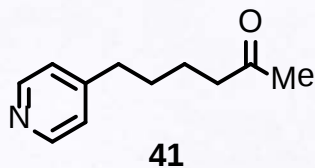
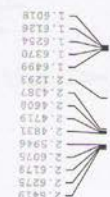


Current Data Parameters
NAME SGP05-269
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20101122
Time 10.02
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
PC 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 327.68
DW 83.400 usec
DE 6.50 usec
TE 298.2 K
TD 2.00000000 sec

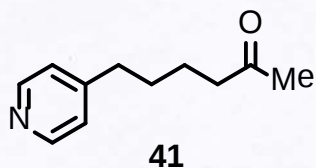
CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 0.00 dB
STO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499991 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1H SGP05-269





Current Data Parameters
Name: 13C SGP05-269
EXPNO: 1
PROCNO: 1
F2 - Acquisition Parameters
Date_ : 20101122
Time: 10:22
INSTRUM: spect
PROBHD: 5 mm QNP 1H/13
PULPROG: zgpg30
TD: 65536
SOLVENT: CDCl3
NS: 137
DS: 4
SWH: 15940.080 Hz
FIDRES: 0.30457 Hz
AQ: 1.674132 sec
RG: 612
DM: 25.000 usec
DE: 256.2 usec
TE: 298.2 K usec
D1: 1.00000000 sec
TDS: 0.00000001
===== CHANNEL f1 =====
NUC1: 13C
P1: 9.50 usec
PL1: 0.00 dB
SFO1: 75.4803253 MHz
===== CHANNEL f2 =====
CFPRPG2: waltz16
NUC2: 1H
P2: 9.50 usec
PL2: 0.00 dB
PL12: 20.00 dB
SFO2: 300.1512095 MHz
F2 - Processing parameters
SI: 32768
SF: 75.477632 MHz
WDW: EM
SSB: 0
LB: 3.50 Hz
GB: 0
PC: 1.40



13C SGP05-269



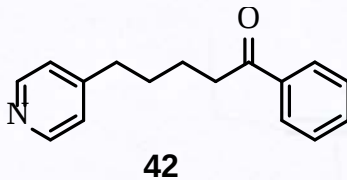


Current Data Parameters
NAME SGP06-39
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20110209
Time 14:46
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 203.75
DE 6.50 usec
TE 289.2 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz

F2 - Processing parameters
SI 16384
SF 300.1500013 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

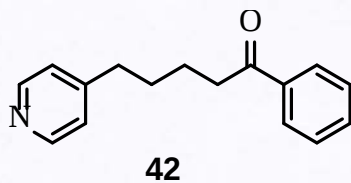


1H SGP06-39





Current Data Parameters
NAME: SGP06-39
EXPNO: 1
PROCNO: 1
P2 - Acquisition Parameters
Date_ 20110209
Time 11.53
Time_RUN 11.53
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT CDCl3
NS 111
DS 4
SWH 19560.800 Hz
FIDRES 0.304567 Hz
AQ 0.0200000 sec
RG 912
DM 25.050 uSAC
TE 299.2 K
T2 8.5500000 sec
T2* 289.2 K
O1 1.00000000 sec
O2 1.00000000 sec
TSD 0.03000000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 uSAC
PL1 0.00 dB
SFO1 75.4803253 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 8.00 uSAC
PL2 19.00 dB
SFO2 300.1312006 MHz
P2 - Processing parameters
SI 32768
SF 75.4732000 MHz
WDW EM
SSB 0
GB 0
PC 1.40

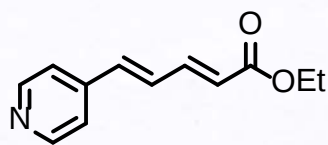


13C SGP06-39

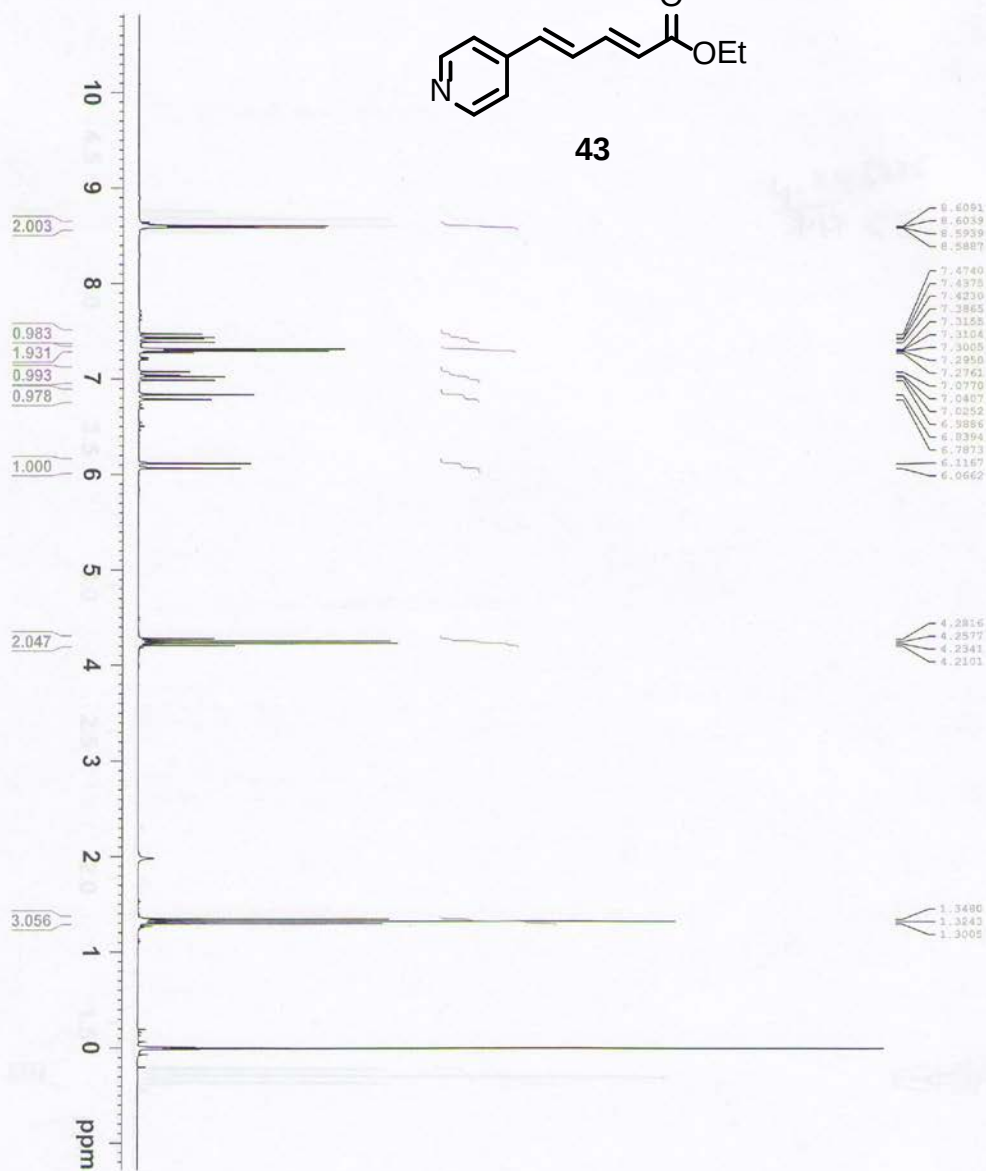




1H SGP05-235



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Current Data Parameters
NAME SGP05-235
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 201005
Time 12:00
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
DS 1
SC 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 320
DE 83.400 dB
TE 298.2 K
D1 2.0000000 sec
TDO 1
CHNCL F1
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1524012 MHz
F2 - Processing parameters
SI 16384
SF 300.1500006 MHz
WDW EM
SSB 0
GB 0.0 Hz
PC 1.00





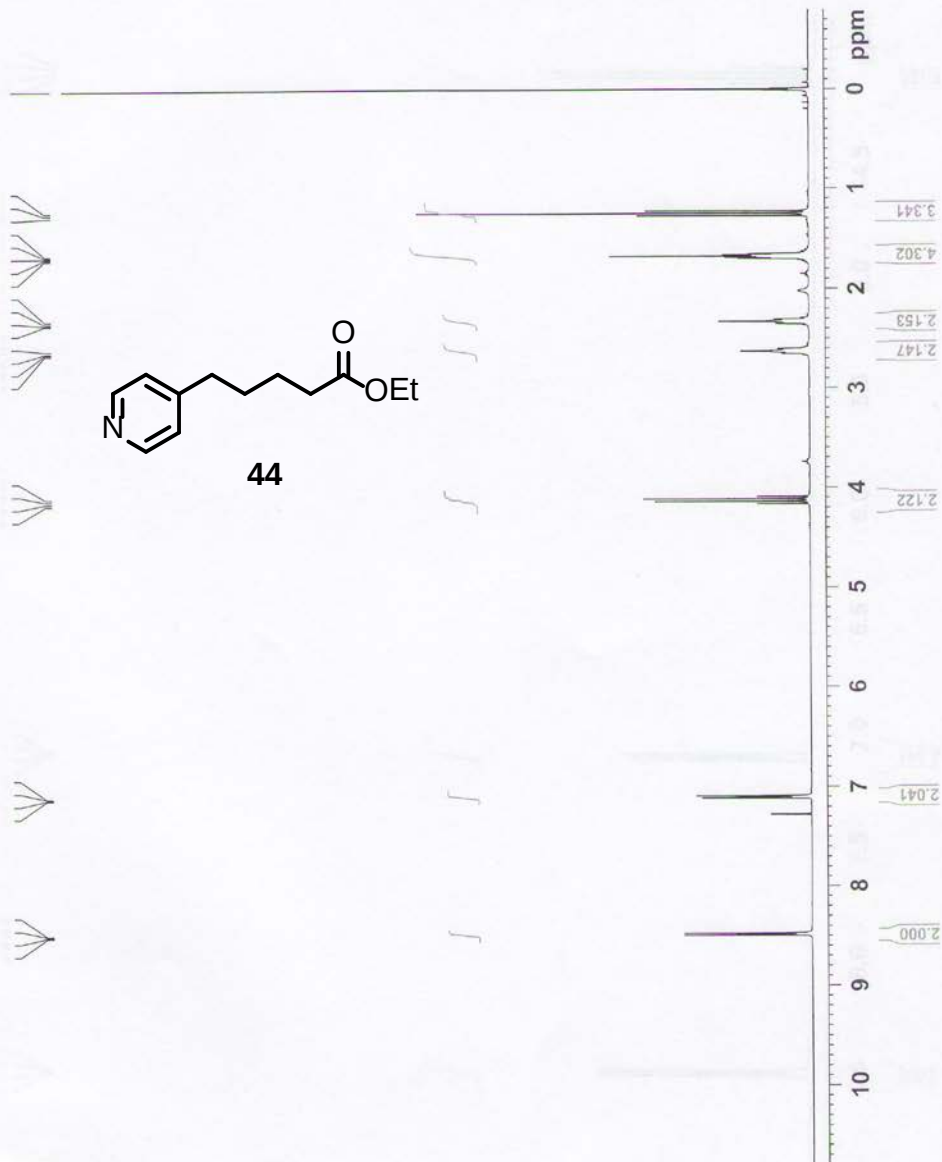
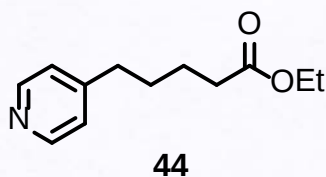
Current Data Parameters
NAME SGP05-235
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20111211
Time 12:11
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
FIDRES 0.177
AQ 1.5417269 sec
RG 327.5
SD 1.0000000
DE 6.50 umec
TE 300.152005 K
D11 0.2000000 sec
T20 1
===== CHANNEL f1 =====
NUC1 13C
P1 9.45 umec
PL1 0.00 dB
SFO1 75.480253 MHz
===== CHANNEL f2 =====
NAME SGP05-235
EXPNO 2
PROCNO 1
F2 - Processing parameters
SI 32768
SF 75.472766 MHz
WDW 0
SSB 0
LB 3.50 Hz
GB 0
PC 1.40



1H SGP05-243

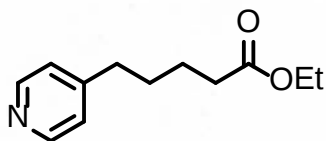


Current Data Parameters
 NAME SGP05-243
 EXPNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20101007
 Time 16.29
 INSTRON spect
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 2
 DS 5995.201 Hz
 FIDRES 0.142959 Hz
 AQ 2.7324011 sec
 RG 228.1
 DW 83.400 usec
 DE 6.500 usec
 DI 398.2
 D1 2.00000000 sec
 TDO 1
 CHANNEL f1
 NUC1 1H
 P1 9.00 usec
 PL1 -0.50 dB
 SFO1 300.1524012 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1500032 MHz
 WDW EM
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00



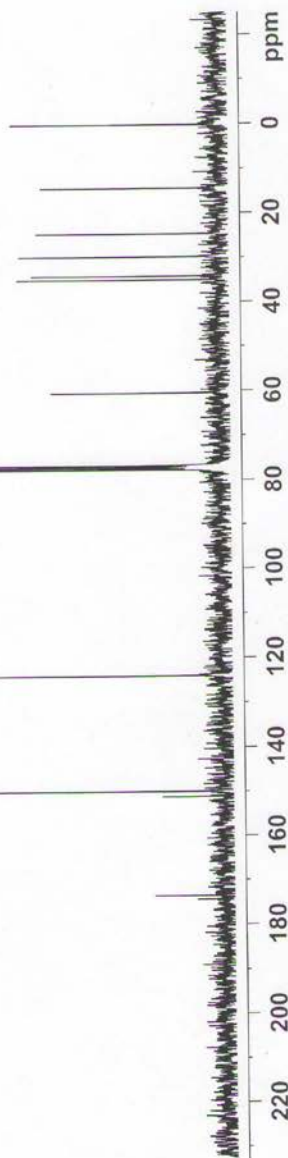
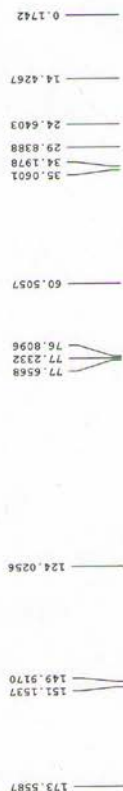


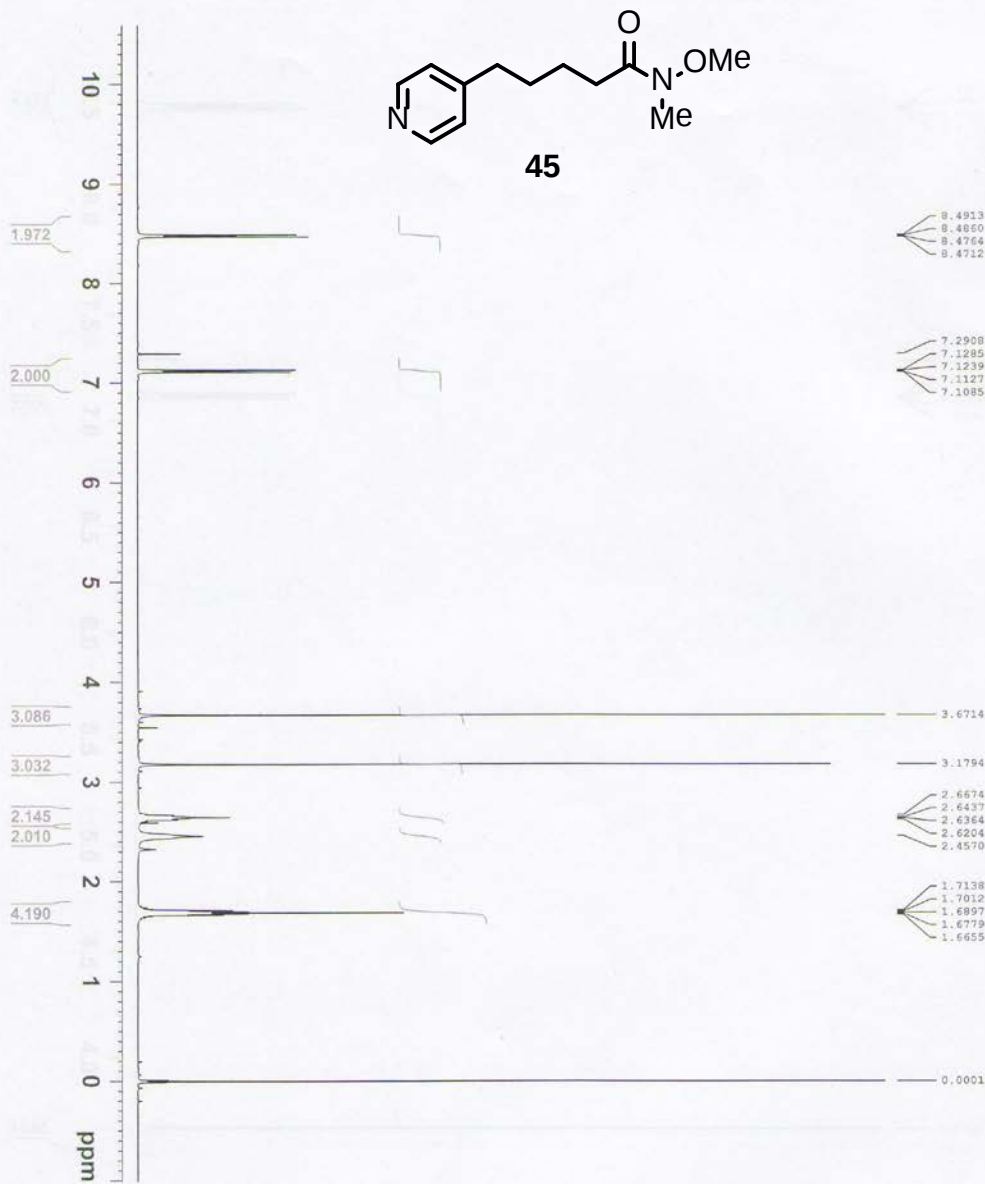
Current Data Parameters
NAME SGP05-243
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20101007
Time 16.35
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
AQ 0.05163 sec
SOLVENT CDCl3
NS 95
DS 4
SWH 19960.080 Hz
FIDRES 0.304567 Hz
AQ 1.0000000 sec
RG 327.5
WM 25.000 usec
DE 8.50 usec
TE 300.2 K
D1 1.0000000 sec
D11 0.0500000 sec
TD 65536
===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 0.00 dB
SFO1 75.480133 MHz
===== CHANNEL f2 =====
NUC2 1H
P2 19.00 usec
PL2 0.00 dB
SFO2 300.1312006 MHz
F2 - Processing parameters
SI 32768
SF 300.1312006 MHz
WDW 50.000 usec
SSB 0
GB 0
PC 1.40



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13C SGP05-243





1H SGP06-14-fr-1



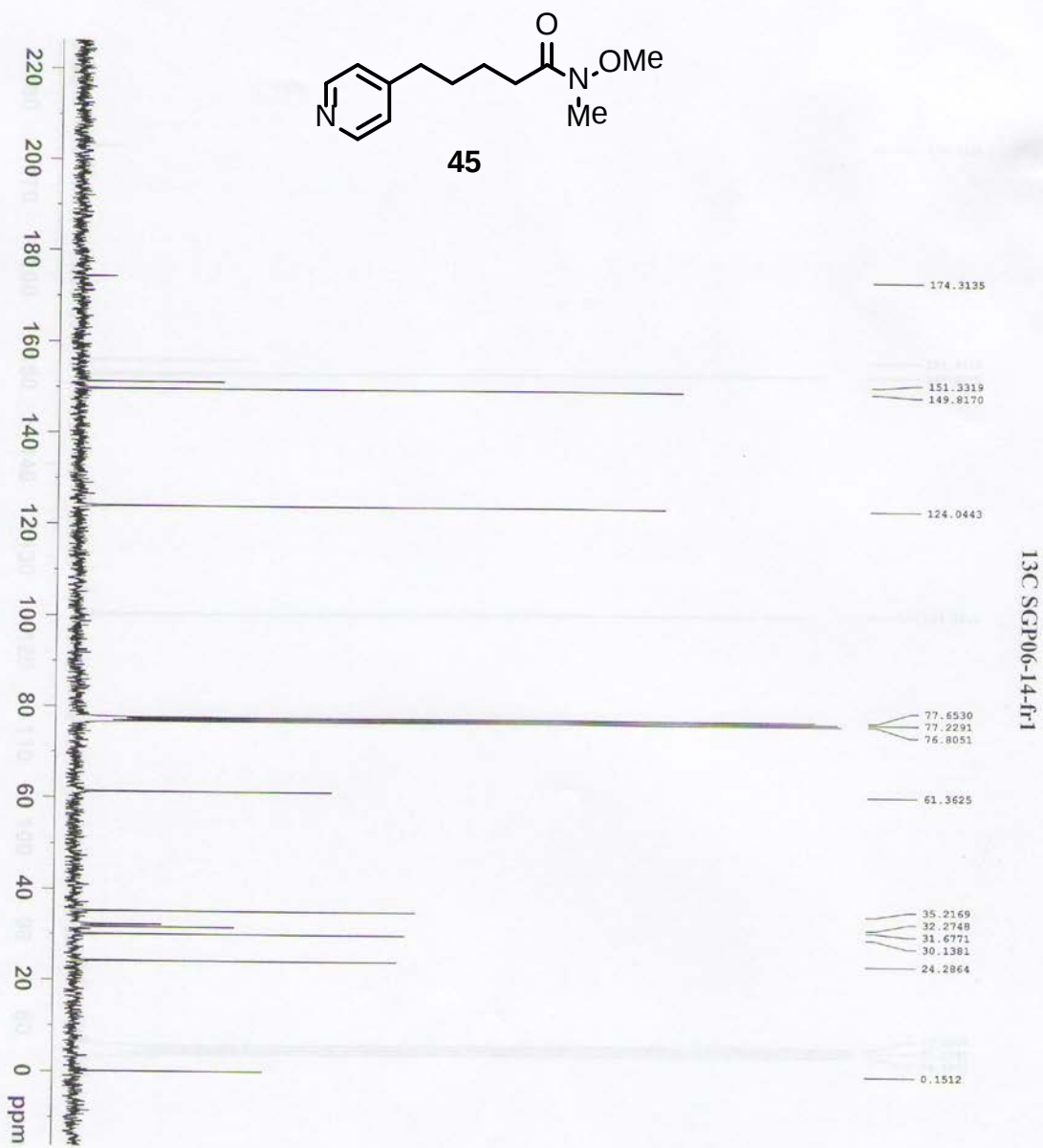
Current Data Parameters
NAME SGP06-14-fr-1
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20110114
Time 14.03
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
DS 2
B1 10.13
SFO 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329611 sec
RG 32.140
RM 1.81
LW 4.50 usec
TE 289.2 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 -0.50 dB
SFO1 300.1324012 MHz

F2 - Processing parameters
SI 16384
SF 300.1499862 MHz
WDW EM
SSB 0
GB 0
PC 1.00

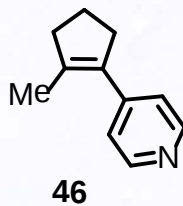




Current Data Parameters
NAME SGP06-14-ft-1
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20111111
Time_ 14:07
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT py
NS 321
DS 2
SWH 19460.816 Hz
FIDRES 0.34487 Hz
AQ 1.6417269 sec
RG 32.650 usec
DE 6.50 usec
TE 300.2 K
D1 1.00000000 sec
d11 0.03000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 13C
P1 1.50 usec
PL1 0.00 dB
SFO1 75.486233 MHz
===== CHANNEL f2 =====
NUC2 1H
P2 1.10 usec
PL2 0.00 dB
SFO2 300.131206 MHz
===== CHANNEL f3 =====
NAME SGP06-14-ft-1
EXPNO 2
PROCNO 1
F2 - Processing parameters
SI 32768
SF 75.472769 MHz
WDW 0
SSB 0
LB 3.50 Hz
GB 0
PC 1.40



¹H SGP06-34-purified



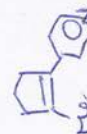
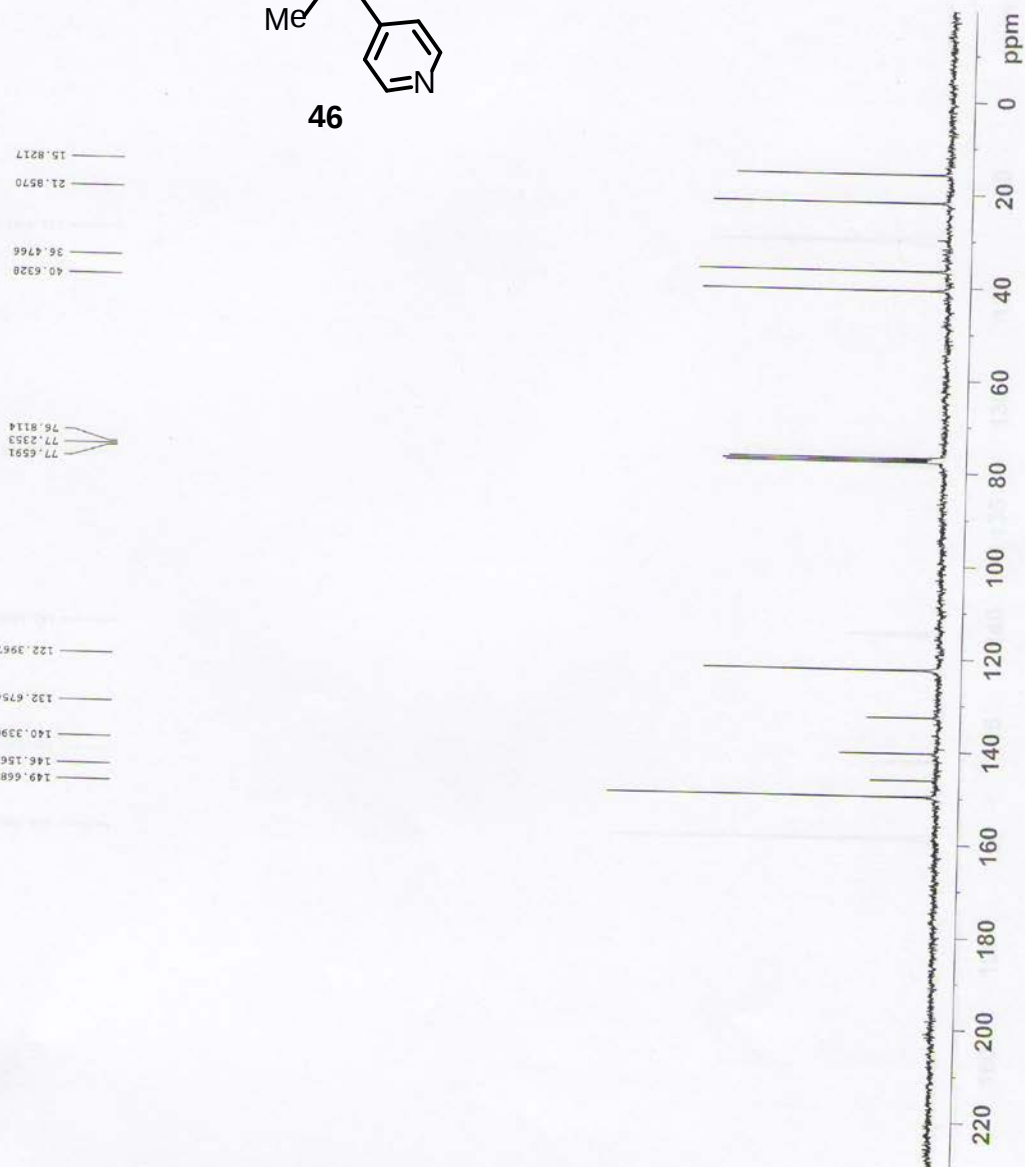
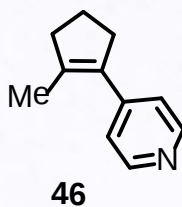
Current Data Parameters
 NAME SGP06-34-purified
 EXPNO 1
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20110131
 Time 17.28
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 2
 DS 4
 SWH 5995.204 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 71.8
 DW 83.400 usec
 DE 1.000 usec
 TE 290.2 K
 D1 2.00000000 sec
 TDO 1
 CHANNEL f1
 NUC1 1H
 P1 9.00 usec
 PL1 -0.50 dB
 SFO1 300.1324012 MHz
 F2 - Processing parameters
 SI 16384
 SF 300.1499947 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.00



¹³C SGP06-34-purified

BRUKER

Current Data Parameters
 Name: SGP06-34-purified
 EXPNO: 1
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 20101131
 Time: 17:35
 INSTRUM: spect
 PROBHD: 5 mm QNP 1H/13
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: CDCl3
 DS: 162
 SWH: 19940.080 MHz
 FIDRES: 0.304567 MHz
 AQ: 1.1412580 sec
 RG: 16384
 DW: 25.050 usec
 DE: 5.50 usec
 TE: 290.2 K
 D1: 1.00000000 sec
 d11: 0.05000000 sec
 T1RHO: 0.25000000 sec
 ===== CHANNEL f1 =====
 NUC1: ¹³C
 P1: 9.50 usec
 PL1: 0.00 dB
 SFO1: 75.480323 MHz
 ===== CHANNEL f2 =====
 CPROG2: zgpg30
 NUC2: ¹H
 P2: 9.00 usec
 PL2: 0.00 dB
 SFO2: 300.131206 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 75.472760 MHz
 EQ: 0
 L8: 0
 GB: 0
 PC: 1.40



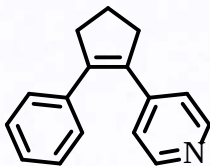


Current Data Parameters
NAME SGP06-96
EXPNO 1
PROCNO 1

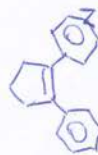
F2 - Acquisition Parameters
Date_ 20110619
Time 19:55
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 2
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 327.68
OW 83.400 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1

CHANNEL f1
NUC1 1H
P1 9.00 usec
PL1 0.50 dB
SFO1 300.1524012 MHz

F2 - Processing parameters
SI 16384
SF 300.1500054 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
FC 1.00

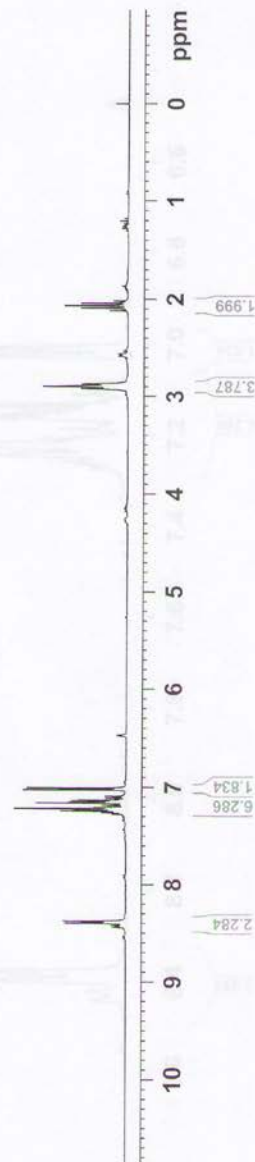


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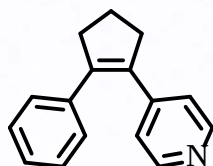


10-)

1H SGP06-96

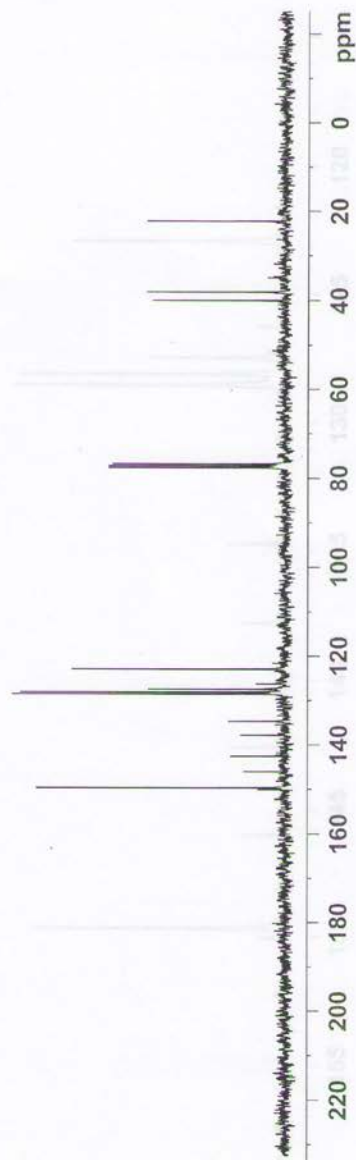


¹³C SGP06-96-repurified



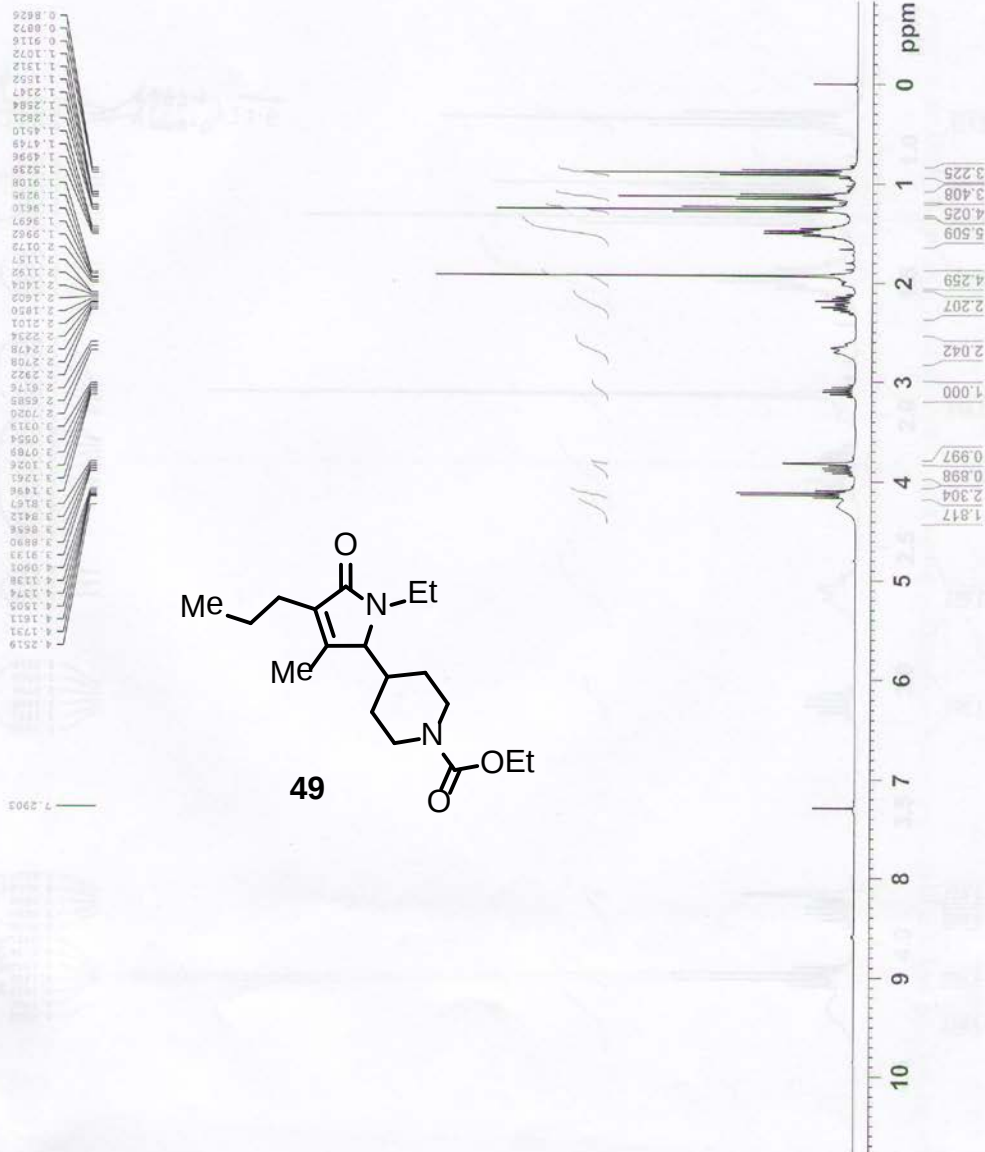
47

Current Data Parameters
 Name: 5006-96-repurified
 EXPNO: 2
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 20110410
 Time: 14.49
 INSTRUM: spect
 PROBHD: 5 mm QNP 1H/13
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: CDCl3
 NS: 45
 DS: 4
 SWH: 19960.000 Hz
 FIDRES: 0.304367 Hz
 AQ: 1.4918152 sec
 RG: 327.5
 DW: 25.050 usec
 DE: 1.0000000 usec
 TE: 298.2 K
 D1: 1.0000000 sec
 D11: 0.0300000 sec
 TSD: 1
 ===== CHANNEL f1 =====
 NUC1: ¹³C
 P1: 9.50 usec
 PL1: 0.00 dB
 SFO1: 75.4803253 MHz
 ===== CHANNEL f2 =====
 NUC2: ¹H
 P2: 19.00 usec
 PL2: 0.00 dB
 SFO2: 300.13506 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 75.477669 MHz
 WDW: EM
 SSB: 0
 LB: 1.8
 GB: 0
 PC: 1.40

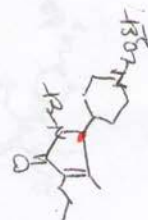




1H SGP06-52-fr2



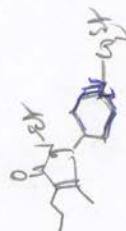
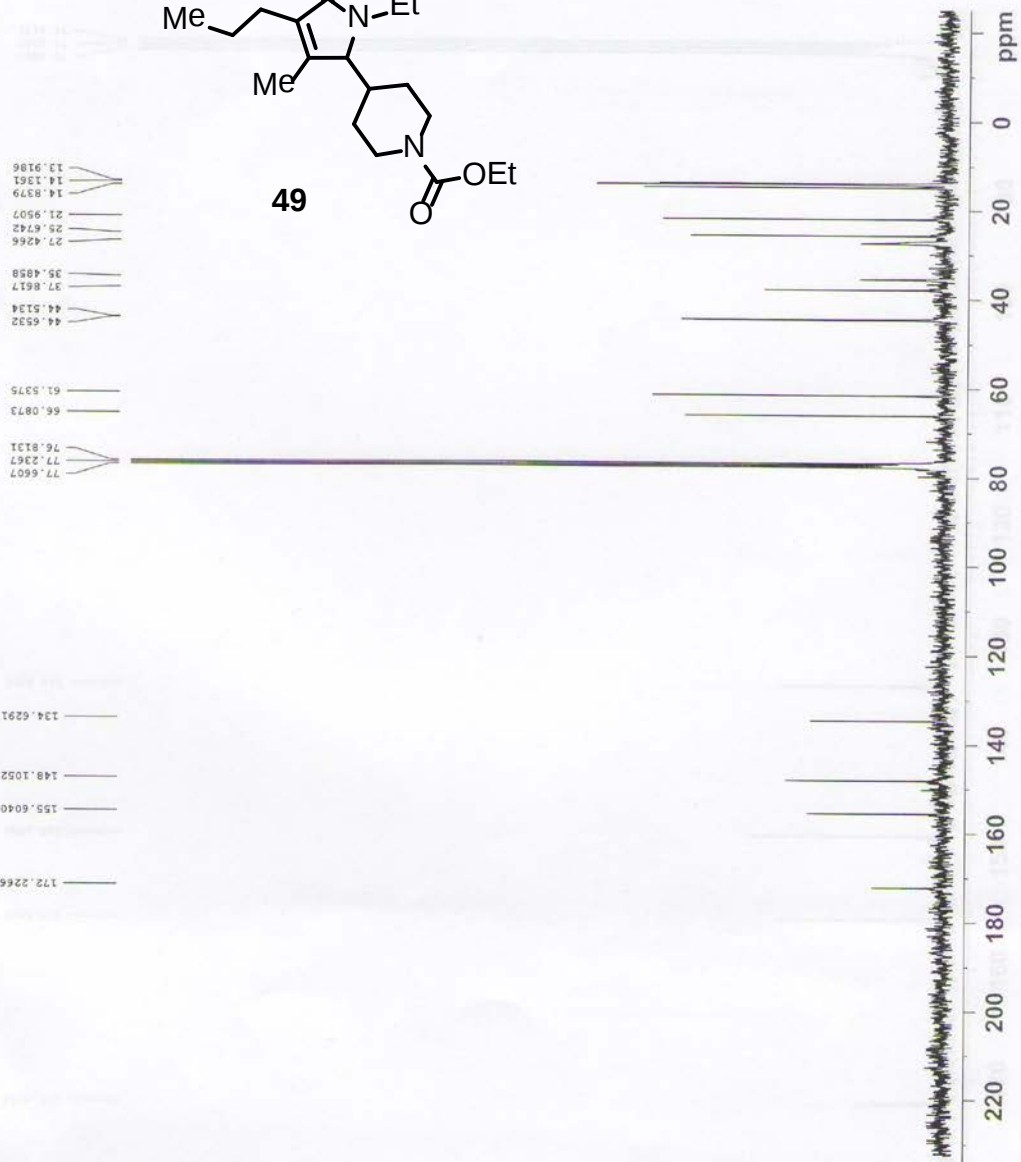
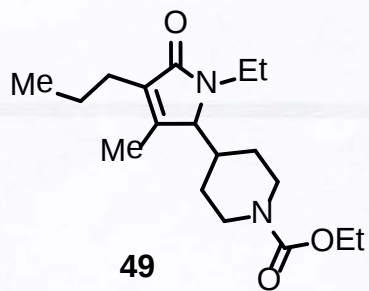
Current Data Parameters
NAME SGP06-52-fr2
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20180211
Time 8.54
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 10
DS 1
SWH 5995.204 Hz
FIDRES 0.182959 Hz
AQ 2.7339911 sec
RG 80.5
DM 83.400 usec
DE 6.50 usec
TE 290.2 K
D1 2.0000000 sec
TDO 1
===== CHANNEL f1 =====
NUC1 1H
P1 9.00 usec
PL1 0.50 dB
SFO1 300.1324012 MHz
F2 - Processing parameters
SI 16384
SF 300.1499962 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



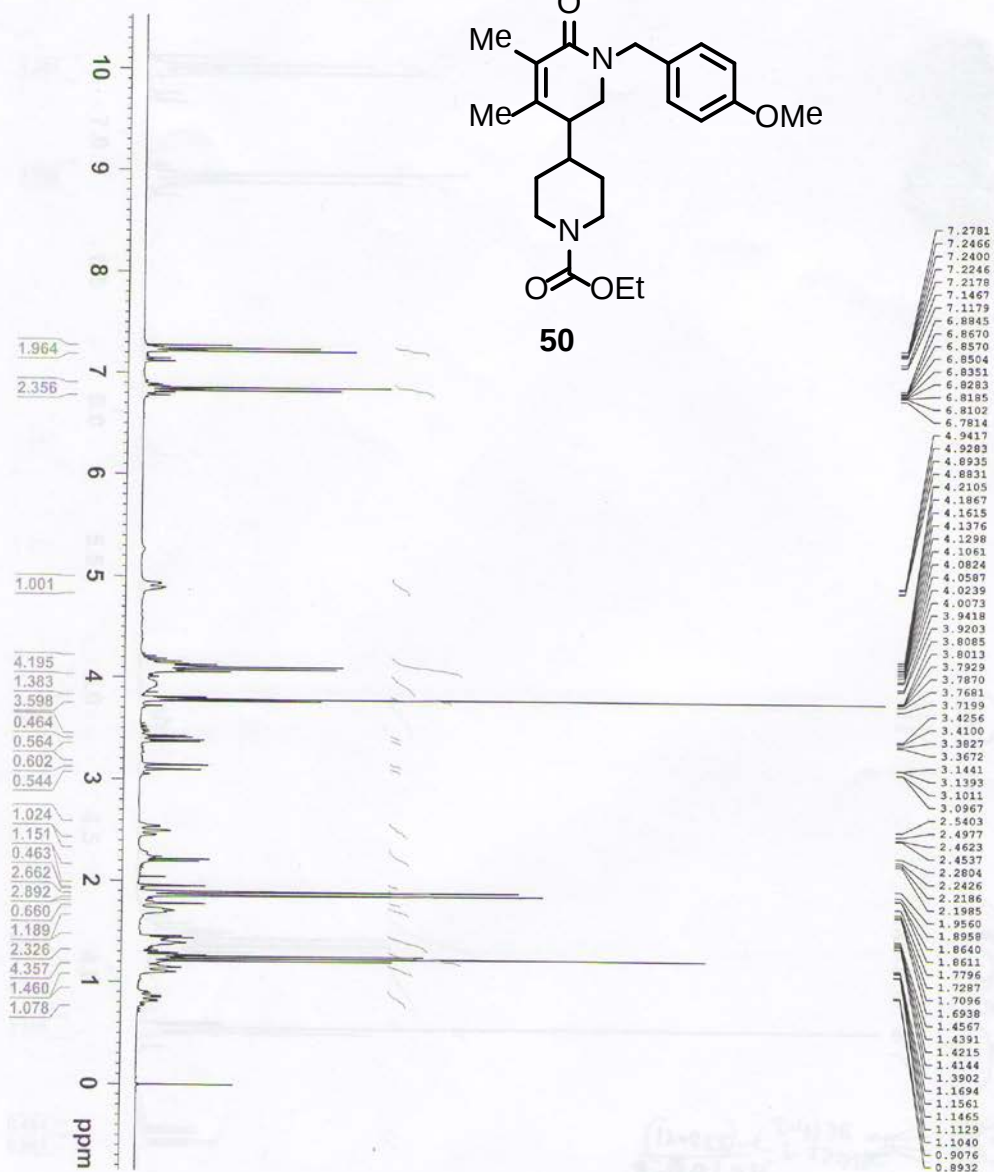
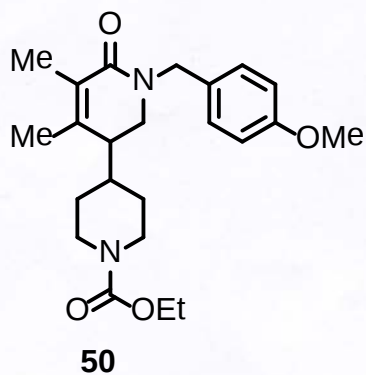
13C SGP06-52-fr2



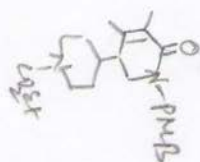
Current Data Parameters
NAME SGP06-52-fr2
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 12-12-2012
Time 9.00
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 6728
DS 4
OS 16
SF 100.625161 MHz
AQ 0.304587 Hz
FIDRES 1.6417289 sec
AQ 1.6417289 sec
RG 327.68
DE 25.00 usec
TE 300.2 K
D1 1.00000000 sec
d11 0
d12 0
d13 0
===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 0.00 dB
SFO1 75.4803253 MHz
===== CHANNEL f2 =====
NUC2 1H
P2 12.00 usec
PL2 0.00 dB
SFO2 300.132006 MHz
F2 - Processing parameters
SI 32768
SF 75.4727657 MHz
WDW EM
SSB 0
GB 0
PC 1.40

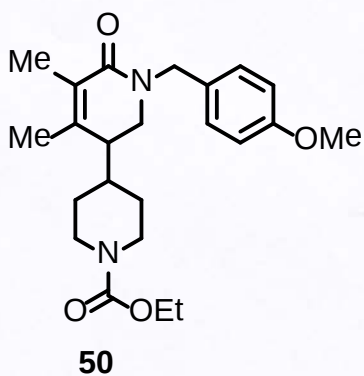


1H SGP06-78-repurified-fr1



Current: 10.00 Parameters
NAME: SGP06-78-repurified-fr1
EXPNO: 1
PROCNO: 1
F2 - Acquisition Parameters
Date_: 20110323
Time: 18.07
INSTRUM: spect
PROBHD: 5 mm QNP 1H/13
PULPROG: zgpg30
SOLVENT: DMSO
NS: 2
DS: 2
SWH: 5081.264 Hz
FIDRES: 0.13259 Hz
AQ: 2.7329011 sec
RG: 343.7
DE: 8.500 usec
TE: 298.2 K
TDO: 2.9606000 sec
===== CHANNEL f1 =====
NUC1: 13C
P1: 9.00 usec
PL1: -0.50 dB
SFO1: 300.1324012 MHz
F2 - Processing parameters
SI: 32768
SF: 16384 MHz
WDW: EM
SSB: 0
GB: 0.00 Hz
PC: 1.00





13C SGP06-78-repurified-fr1-2nd run

