

Supporting Information

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Novel Terpenoids with Potential Anti-Alzheimer Activity from *Nepeta obtusicrena*

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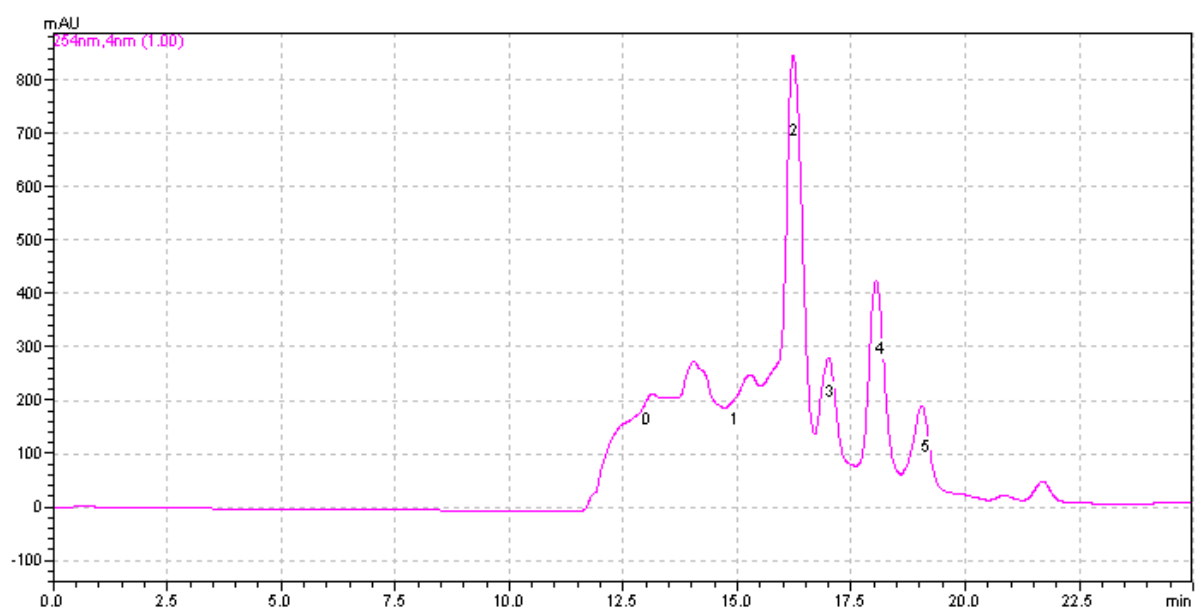
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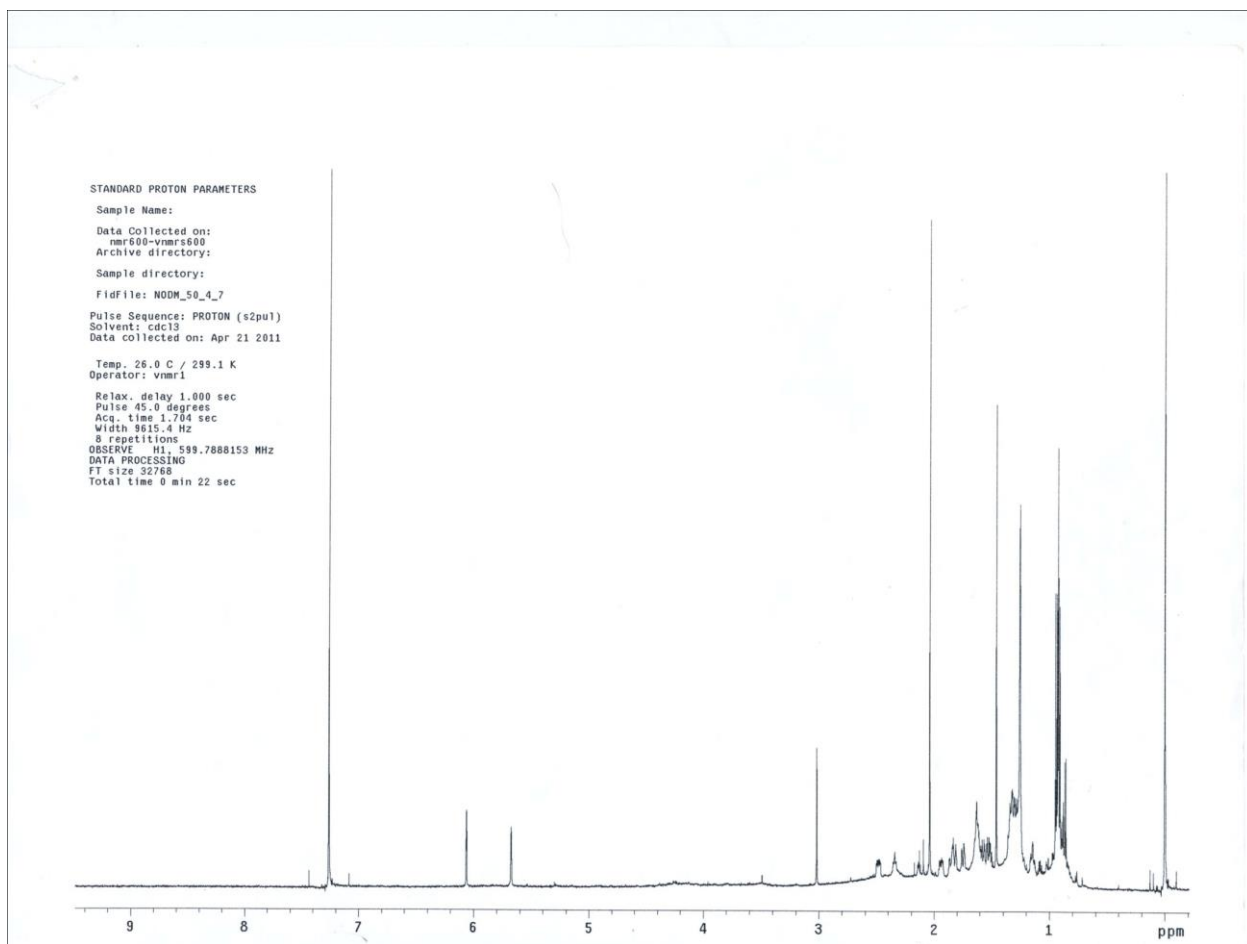
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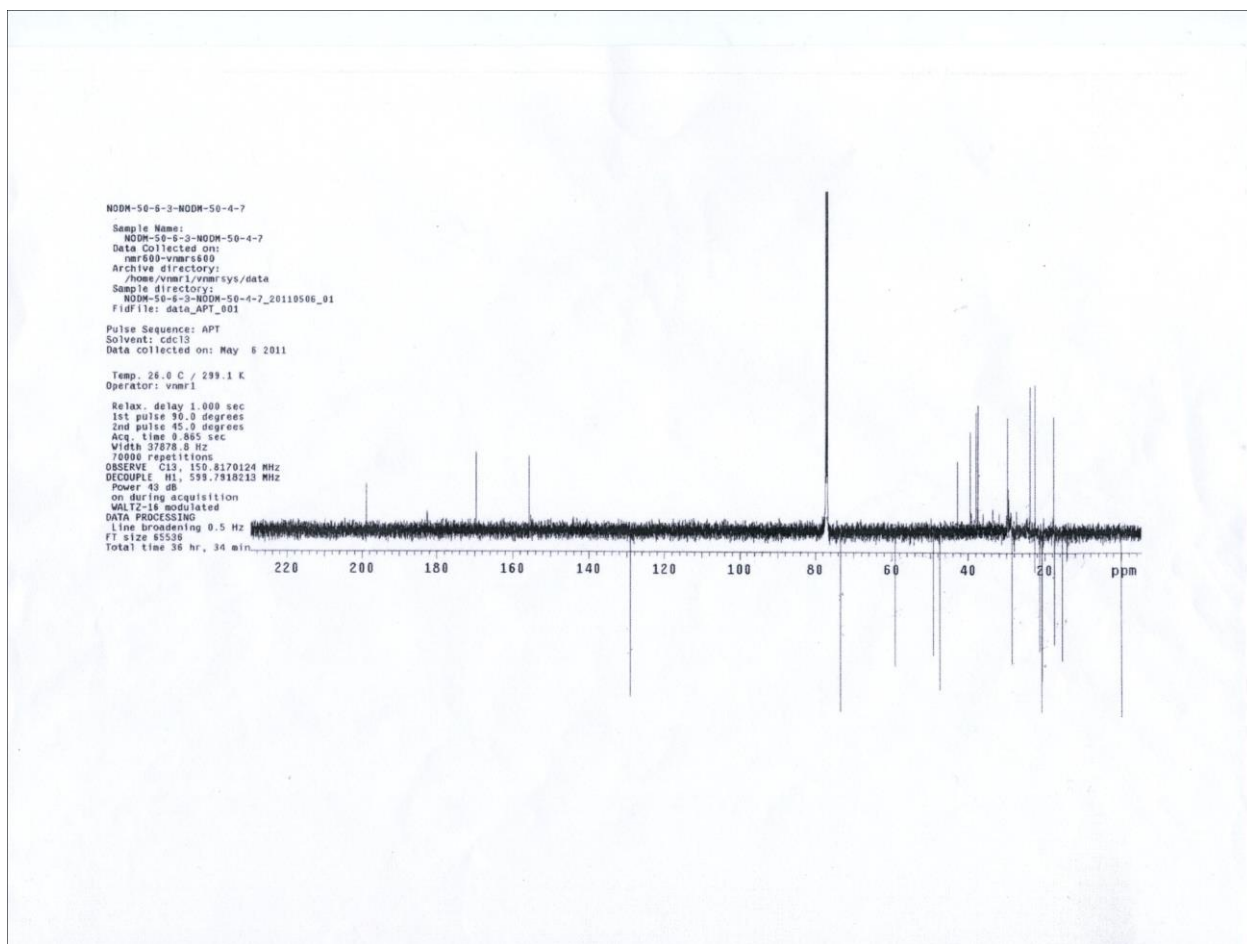
S1: Views of *Nepeta obtusicrena* on the Nemrut Mountain



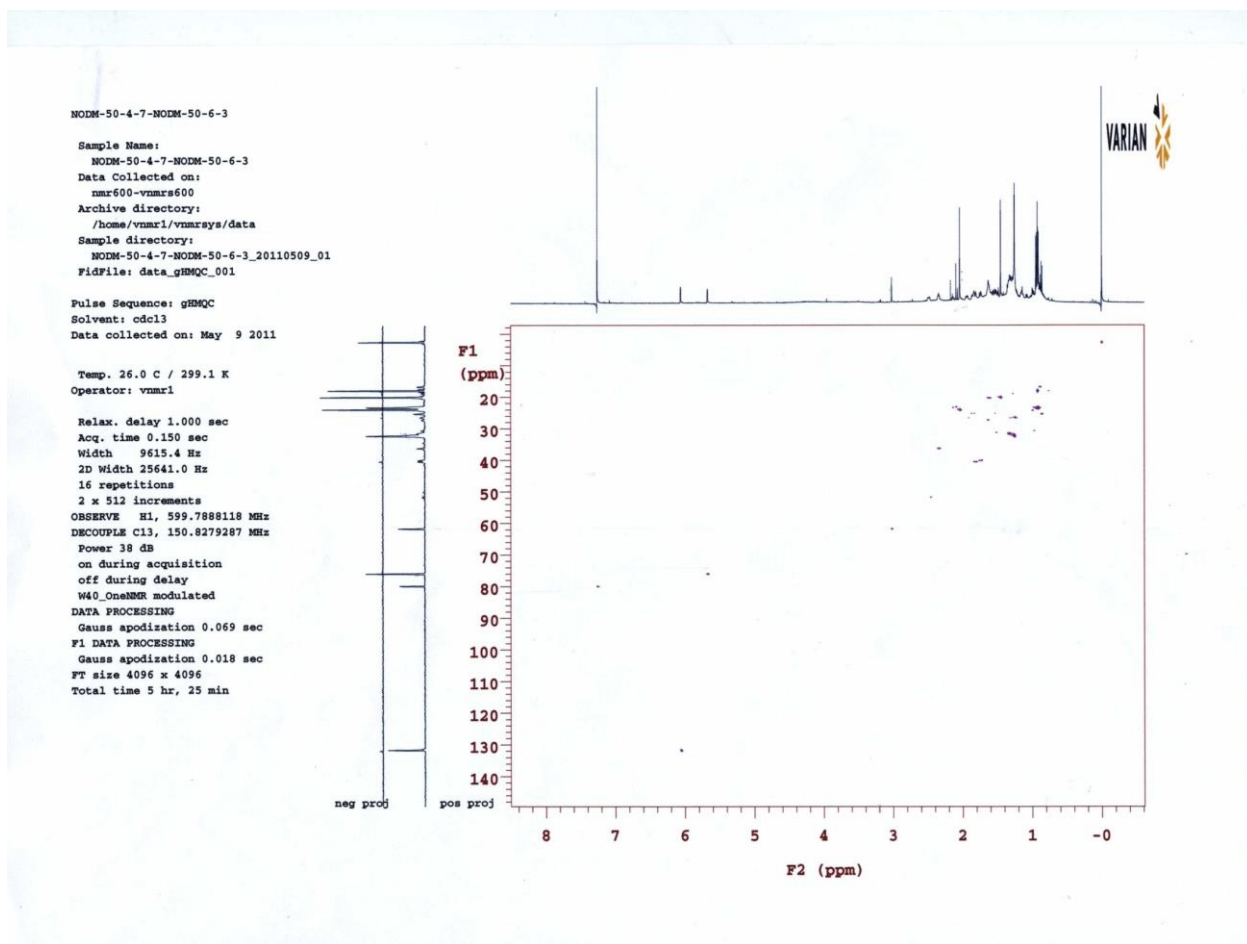
S2: prep-HPLC Chromatogram of Obtusicrenone (Compound **1**)



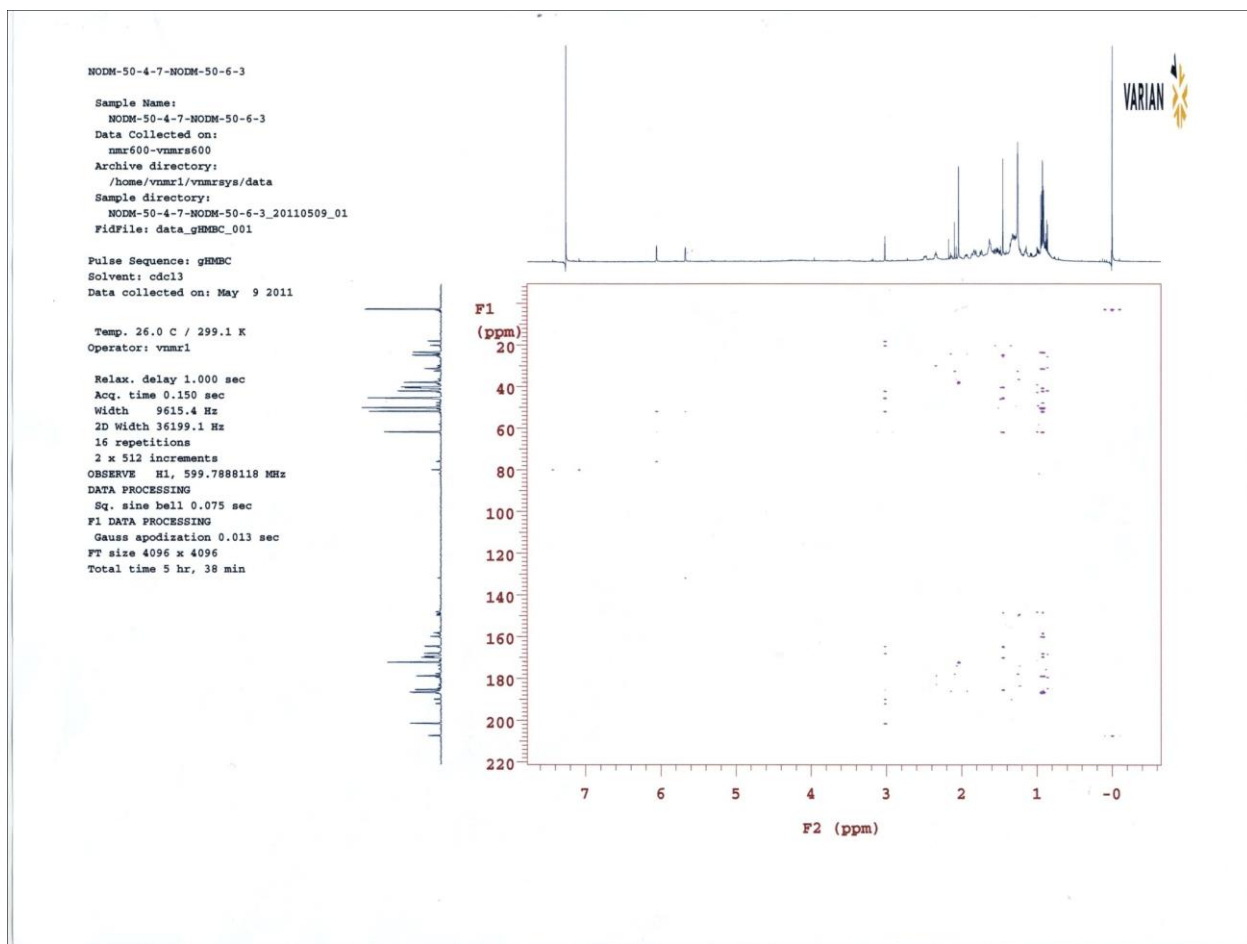
S3: ¹H-NMR Spectrum of Obtusicrenone (Compound 1)



S4: APT Spectrum of Obtusicrenone (Compound 1)



S5: gHMQC Spectrum of Obtusicrenone (Compound 1)



S6: gHMBC Spectrum of Obtusicrenone (Compound 1)

STANDARD CARBON PARAMETERS

Sample Name:

Data Collected on:

mmr600-vmars600

Archive directory:

Sample directory:

FidFile: NODM-50-60-3-NODM-50-4-7-COSY-230511

Pulse Sequence: gCOSY

Solvent: cdcl3

Data collected on: May 23 2011

Temp. 26.0 C / 299.1 K

Operator: vmr1

Relax. delay 1.000 sec

Acq. time 0.150 sec

Width 9615.4 Hz

2D Width 9615.4 Hz

16 repetitions

400 increments

OBSERVE H1, 599.788223 MHz

DATA PROCESSING

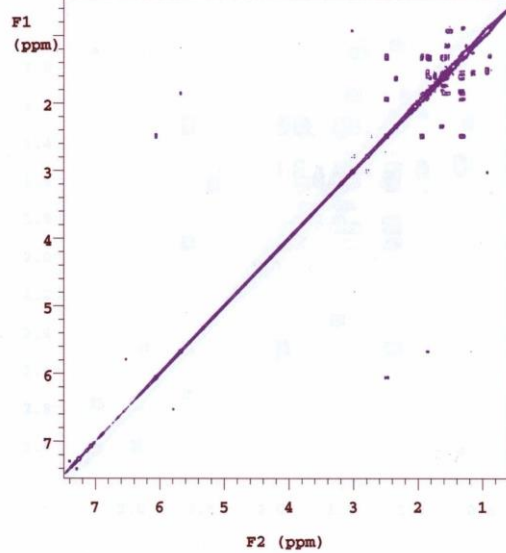
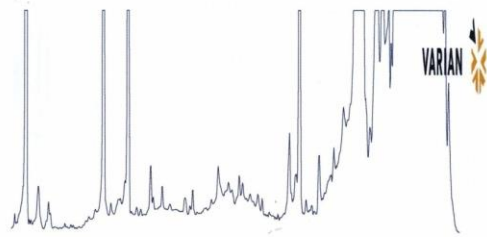
Sq. sine bell 0.075 sec

F1 DATA PROCESSING

Sq. sine bell 0.042 sec

FT size 4096 x 4096

Total time 2 hr, 9 min



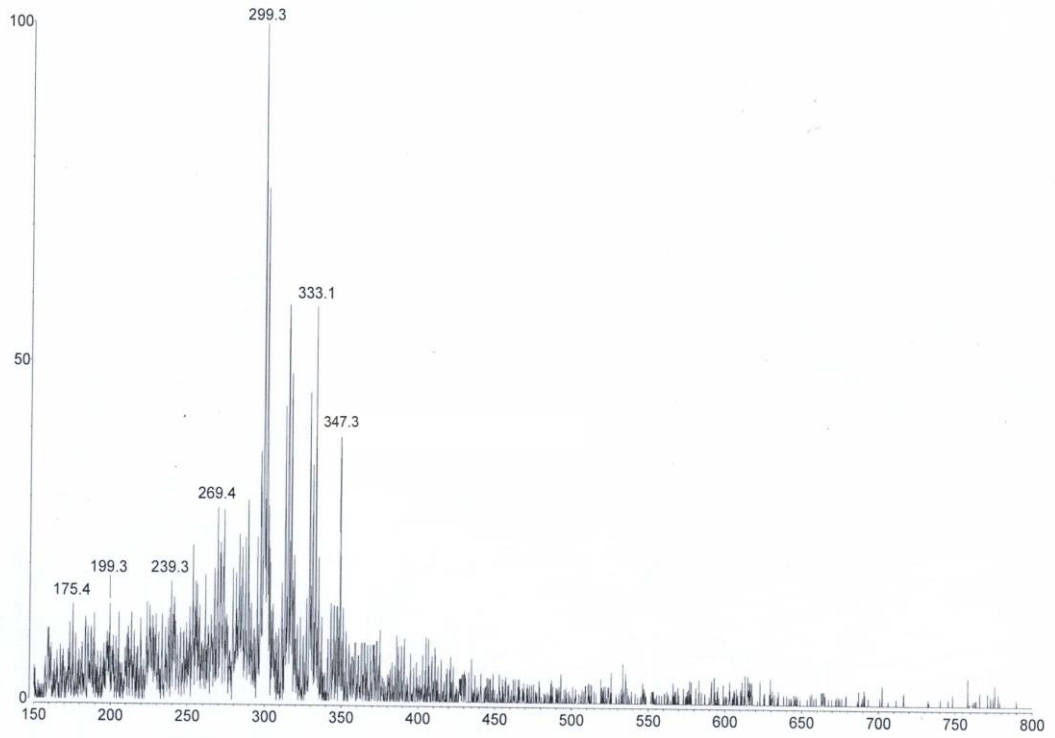
S7: gCOSY Spectrum of Obtusicrenone (Compound 1)

NODM-50-60-3-NODM 50-6-7

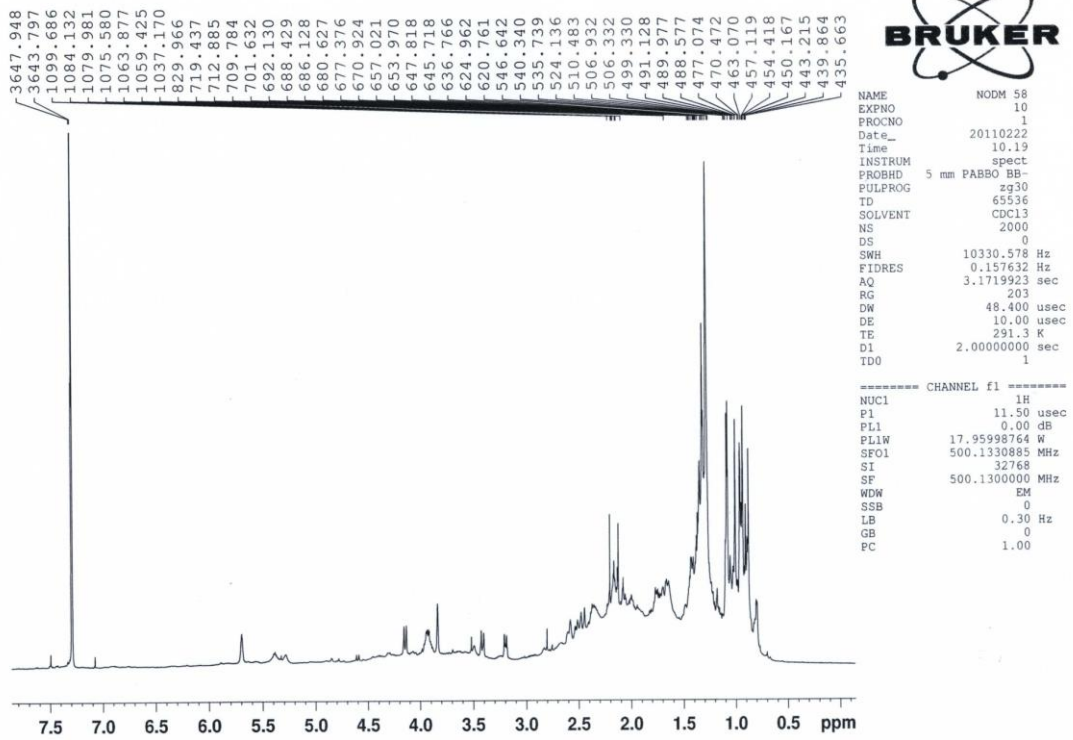
LCQ Instrument Control 25 May 2011 03:22 PM

S#: 775 IT: 9.459 ST: 0.70

NL: 1.00e+006



S8: MASS Spectrum of Obtusicrenone (Compound 1)



S9: ^1H -NMR Spectrum of Nemrutolone (Compound 2)

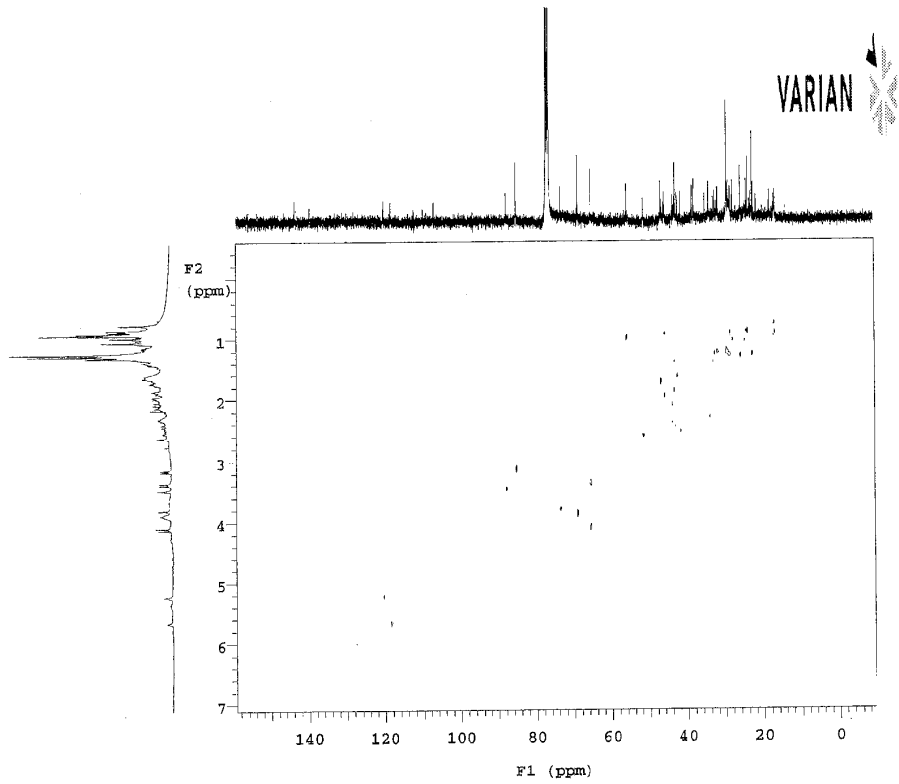
nosdn-58-hsqc

Sample Name:
nosdn-58-hsqc
Data Collected on:
mercury400-mercury400
Archive directory:
/home/walkup/vmmsys/data
Sample directory:
nosdn-58-hsqc_20110325_01
Fidfile: data.gHSQC_001

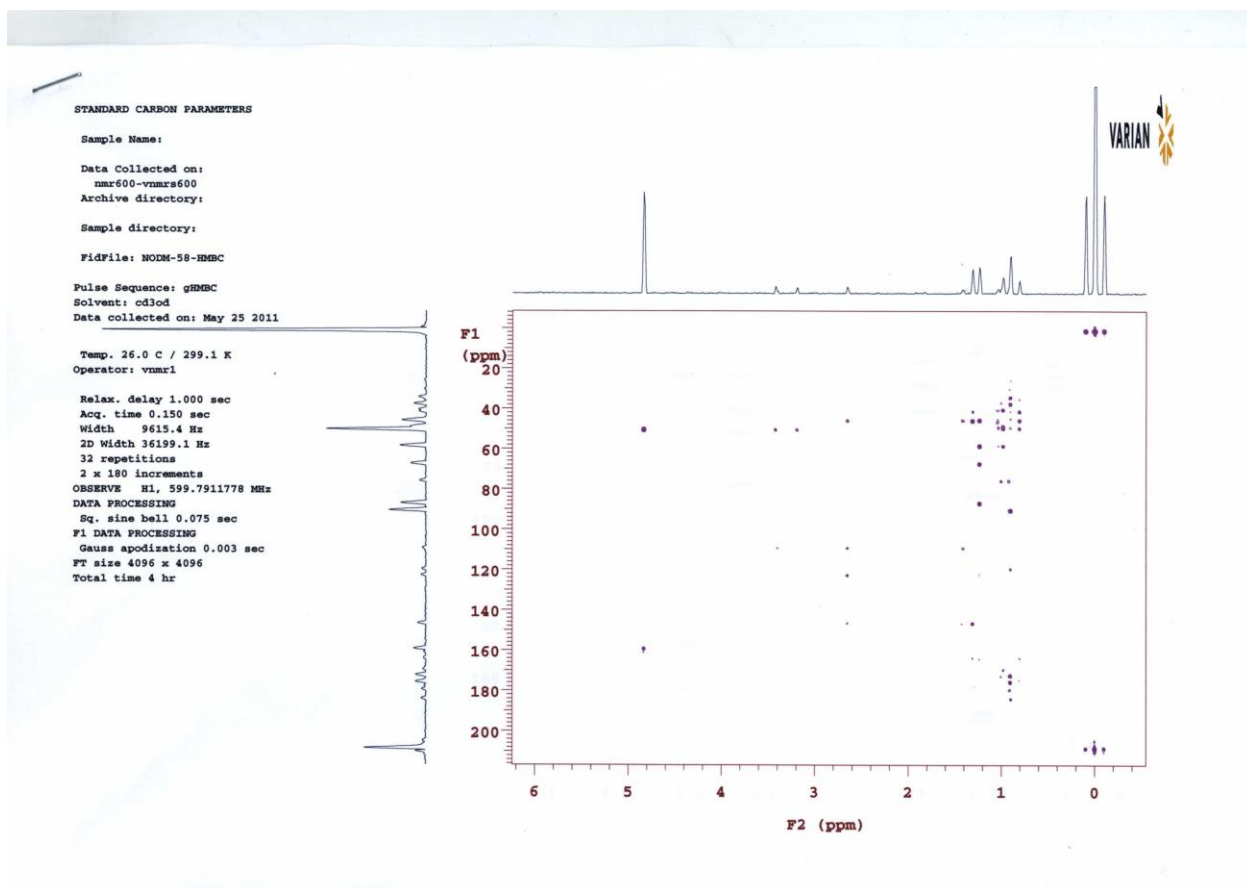
Pulse Sequence: gHSQC
Solvent: cdcl3
Data collected on: Mar 26 2011

Temp. 24.0 C / 297.1 K
Operator: walkup

Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 6398.0 Hz
2D Width 17097.7 Hz
32 repetitions
2 x 512 increments
OBSERVE H1, 399.9779932 MHz
DECUPLE C13, 100.5820895 MHz
Power 44 dB
on during acquisition
off during delay
GAMP-1 modulated
DATA PROCESSING
Gauss apodization 0.069 sec
F1 DATA PROCESSING
Gauss apodization 0.028 sec
FT size 2048 x 4096
Total time 11 hr, 22 min



S10: gHSQC Spectrum of Nemrutolone (Compound 2)



S11: gHMBC Spectrum of Nemrutolone (Compound 2)

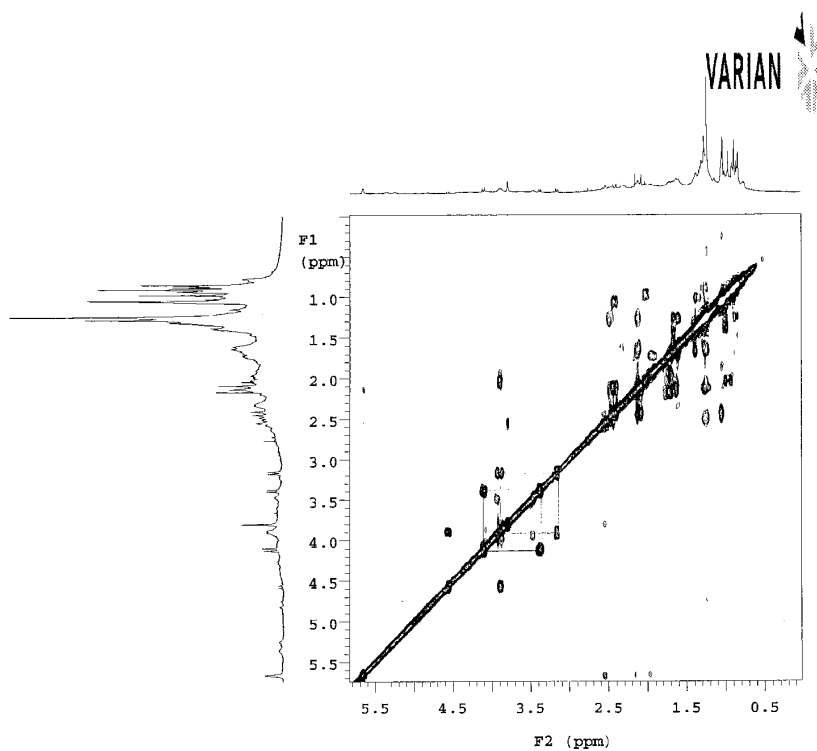
nodm 58 cosy

Sample Name:
nodm-58-cosy
Data Collected on:
mercury400-mercury400
Archive directory:
/home/walkup/vmarsys/data
Sample directory:
nodm-58-cosy_20110315_01
Fidfile: data_gCOSY_001

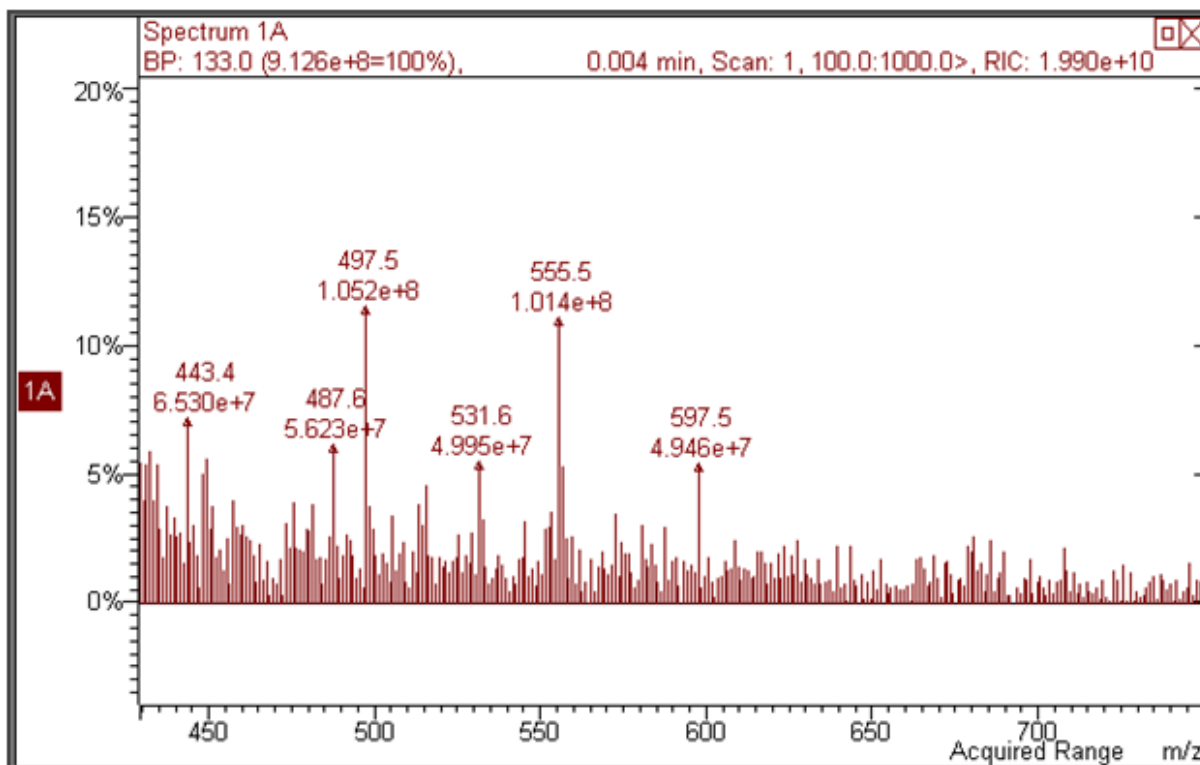
Pulse Sequence: gCOSY
Solvent: cdcl3
Data collected on: Mar 15 2011

Temp: 24.0 C / 297.1 K
Operator: walkup

Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 6398.0 Hz
2D Width 6398.0 Hz
16 repetitions
256 increments
OBSERVE H1, 399.9779932 MHz
DATA PROCESSING
Sq. sine bell 0.075 sec
F1 DATA PROCESSING
Sq. sine bell 0.040 sec
F2 size 2048 x 2048
Total time 1 hr, 26 min



S12: gCOSY Spectrum of Nemrutolone (Compound 2)



S13: MASS Spectrum of Nemrutolone (Compound 2)