

**Title of Manuscript: Two Novel Glycosidic Triterpene Alkaloids
from the Stem Barks of *Machilus yaoshensis***

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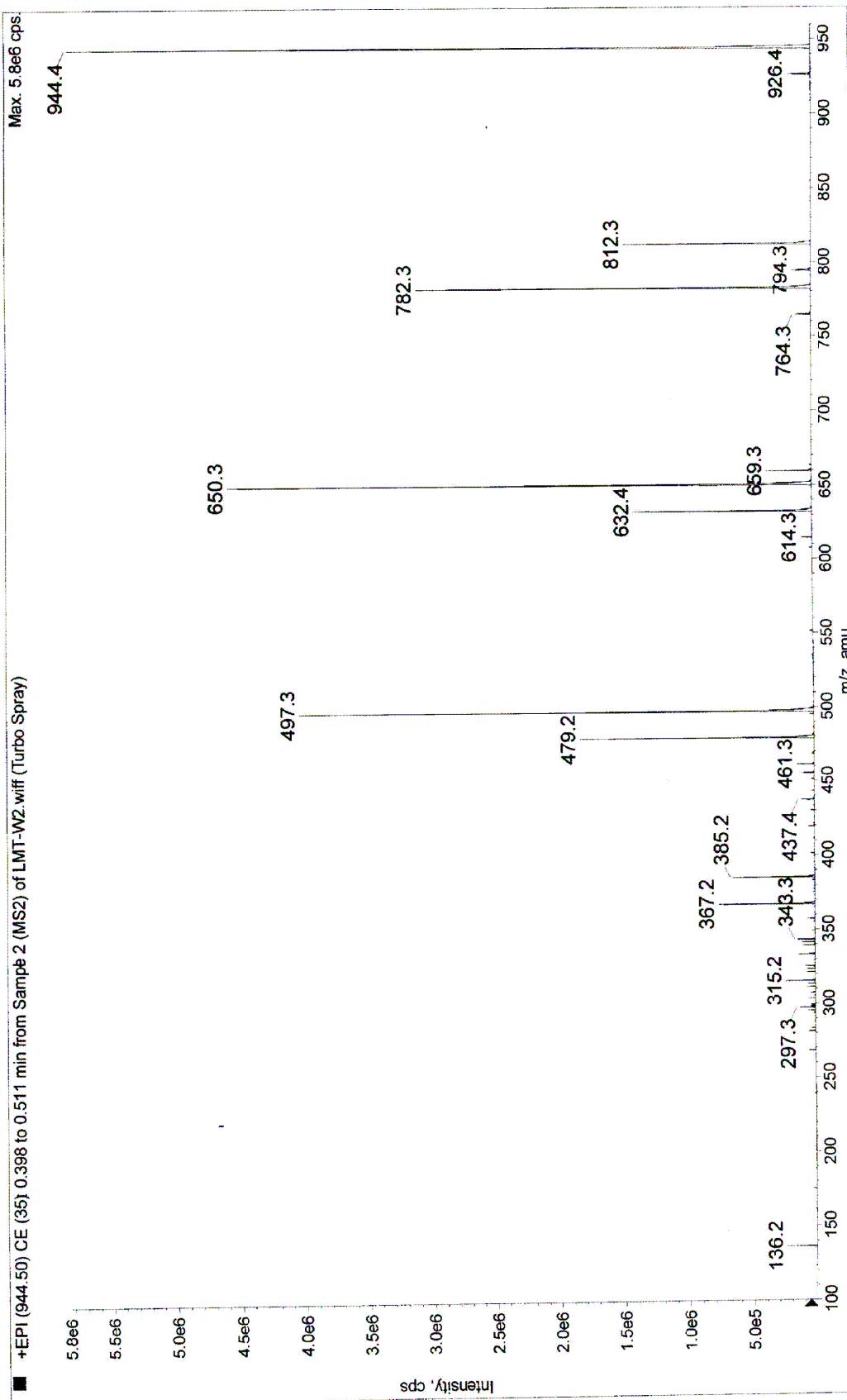
**Supporting Information Available
(Continuation)**

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The Positive ESIMS Spectrum of Machilaminoside B (2)

S19



Data:CE-2
Sample Name:
Description:
Ionization Mode:ESI+

History:Determine m/z[Peak Detect[Centroid,10,Areal];Correct Basel]]].Average(MS1[[2.4070..2.9462]-1.0*Average...
Element:12C:0 .. 100, 1H:0 .. 200, 14N:0 .. 10, 16O:0 .. 20

Charge number:1
Tolerance:5.00(mmu)

Mass	Calc. Mass	Mass Difference (mmu)	Mass Difference (ppm)	12C	1H	14N	16O	Unsaturation Number
944.45143	944.45180	-0.37	-0.39	48	68	2	17	16.0
	944.45045	0.97	1.03	46	66	5	16	16.5
	944.44912	2.31	2.45	45	70	1	20	11.5
	944.44911	2.32	2.45	44	64	8	15	17.0
	944.45498	-3.56	-3.77	37	68	8	20	8.0
	944.44777	3.65	3.87	43	68	4	19	12.0
	944.45582	-4.39	-4.65	53	68	15	20.0	
	944.44643	5.00	5.29	41	66	7	18	12.5

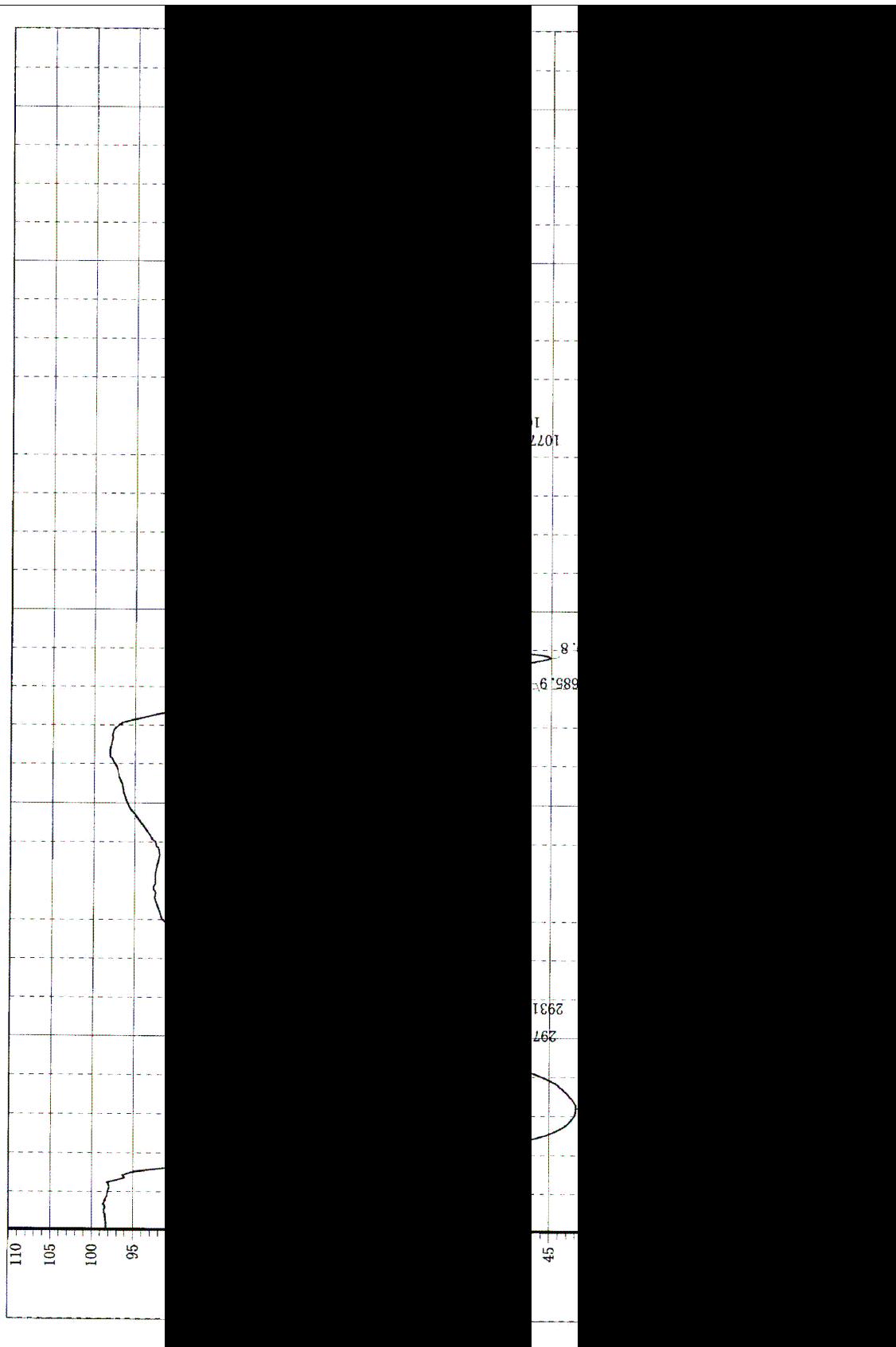
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Operator: Accutof
Mass Calibration data:PEG-050927
Created:11/29/2005 3:32:28 PM
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Unsaturation Number:1.5 .. 20.0 (Fraction:Both)

The HR-ESIMS Spectrum of Machilaminoside B (2)

The IR Spectrum of Machilaminoside B (2)

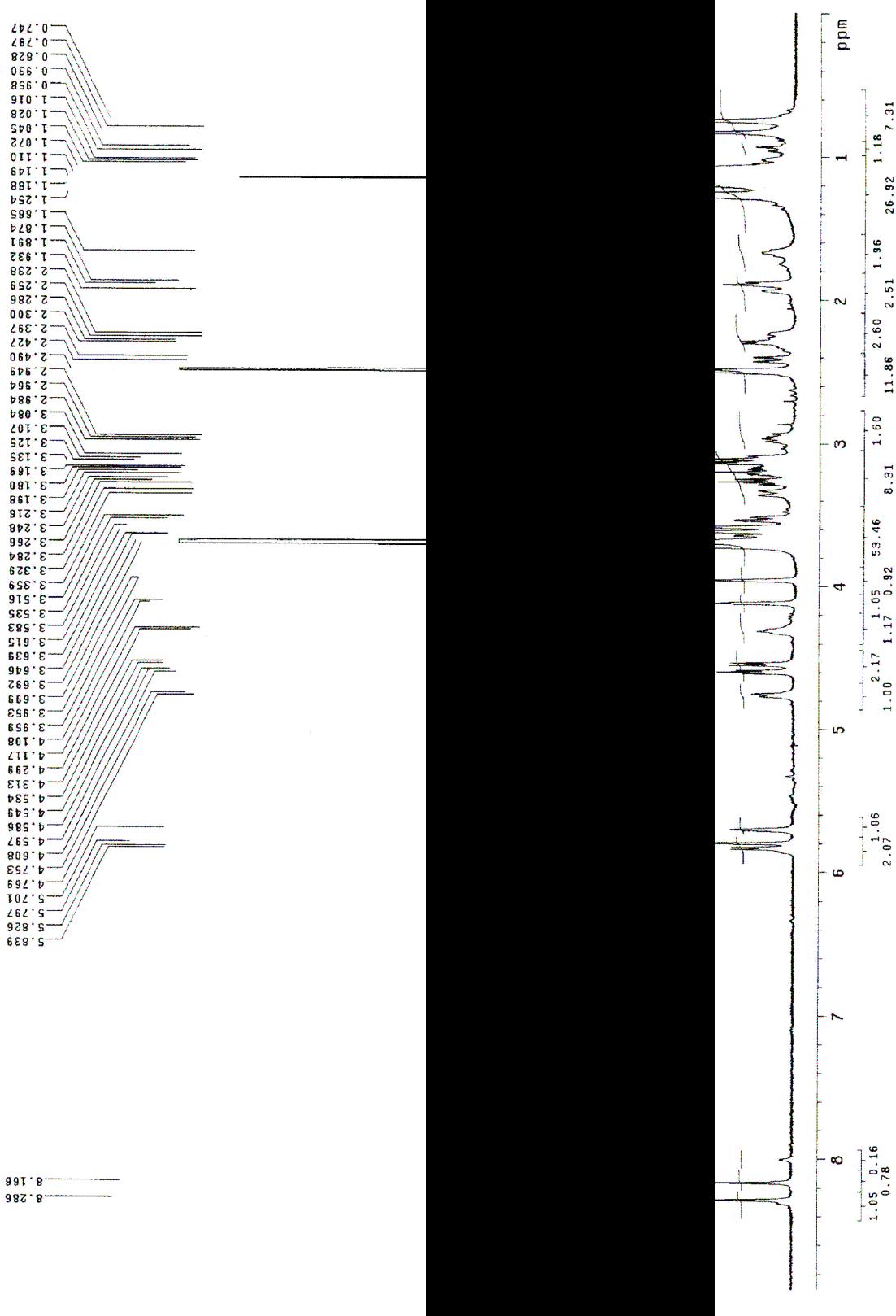
S21



The ^1H NMR Spectrum of Machilaminoside B (2) in $\text{DMSO}-d_6$

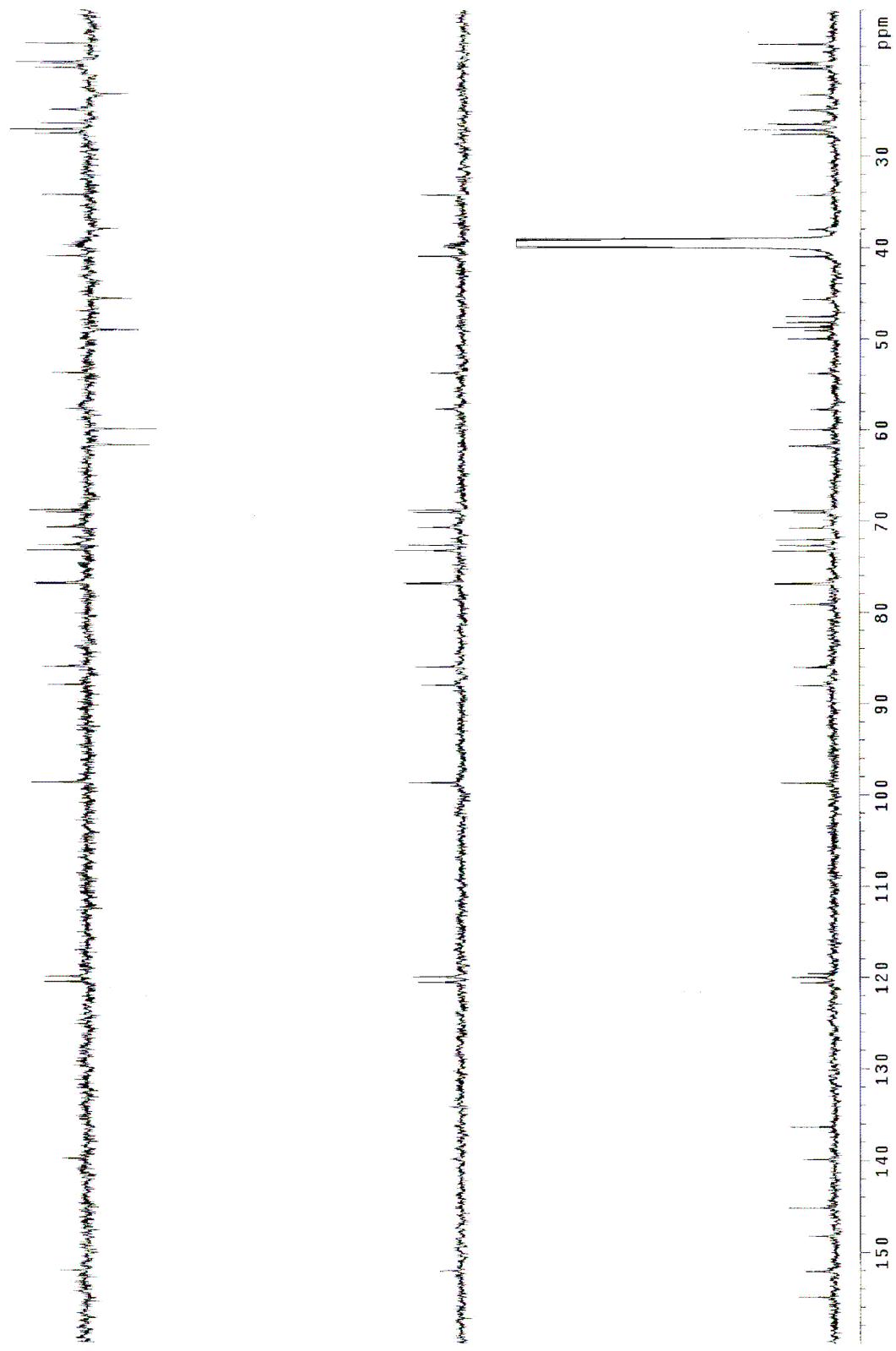
INOVA-501 1H-NMR LMT-W2 IN DMSO+D2O 06.06.27
Archive directory: /export/home/vnmr1/vnmrssys

Archive directory: /export/home/vnmr1/vnmr/sys/data



The ^1H NMR Spectrum of Machilaminoside B (2) in DMSO- d_6 +D₂O

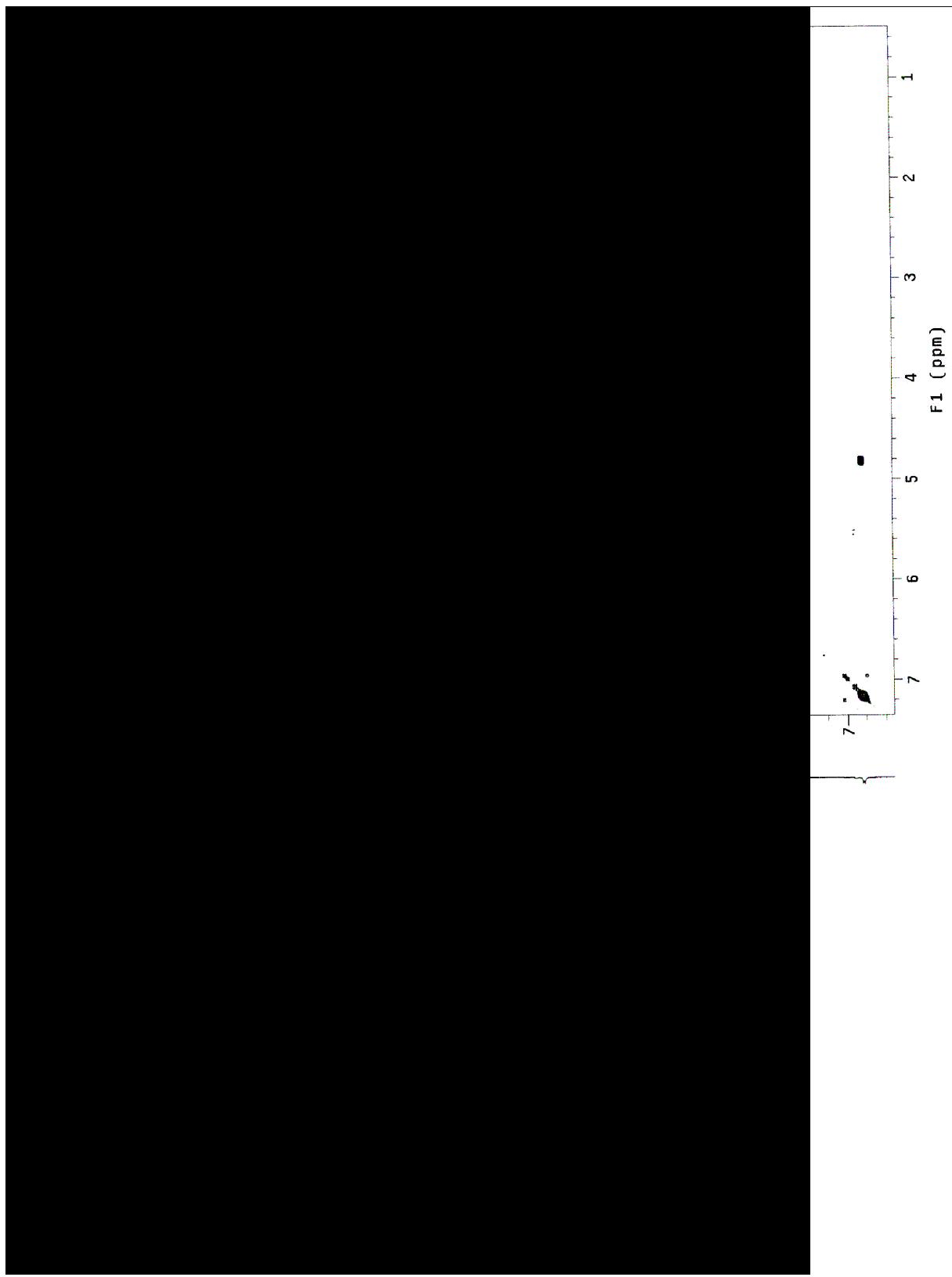
The ^{13}C NMR Spectrum of Machilaminoside B (2) in DMSO- d_6



The DEPT Spectrum of Machilaminoside B (2) in DMSO-*d*₆

The ^1H - ^1H COSY Spectrum of Machilaminoside B (2) in DMSO- d_6

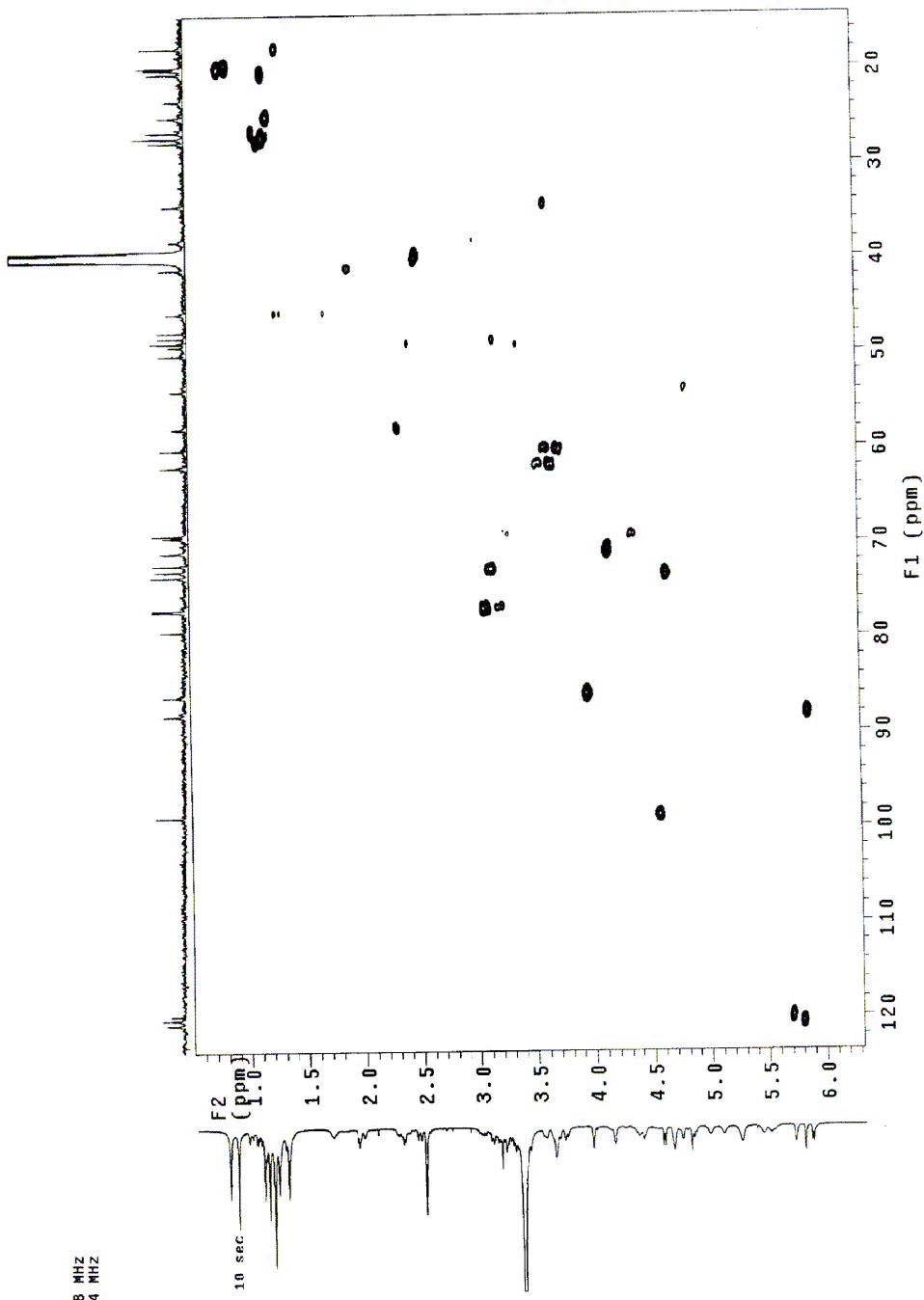
S26



INOVA-501 gHSQC LMT-W2 IN DMSO 06.04.06
Archive directory: /export/home/vnmr/vnmrsys/data

Solvent: DMSO
Temp.: 25.0 °C / 298.1 K
User: 1-14-07
INOVA-500 "NMR511"

Relax. delay 1.000 sec
Ach. time 0.214 sec
With 4777.3 Hz
2D With 18908.1 Hz
80 repetitions
200 increments
OBSERVE F1, 99.7474038 MHz
DECOUPLE C13, 123.6722564 MHz
Power 48 dB
on during acquisition
off during delay
GAP=1 modulated
DATA PROCESSING
Sine Bell 0.036 sec
F1 DATA PROCESSING
Sine Bell 0.005 sec
FT size 2048 x 4096
Total time 5 hr, 44 min, 10 sec

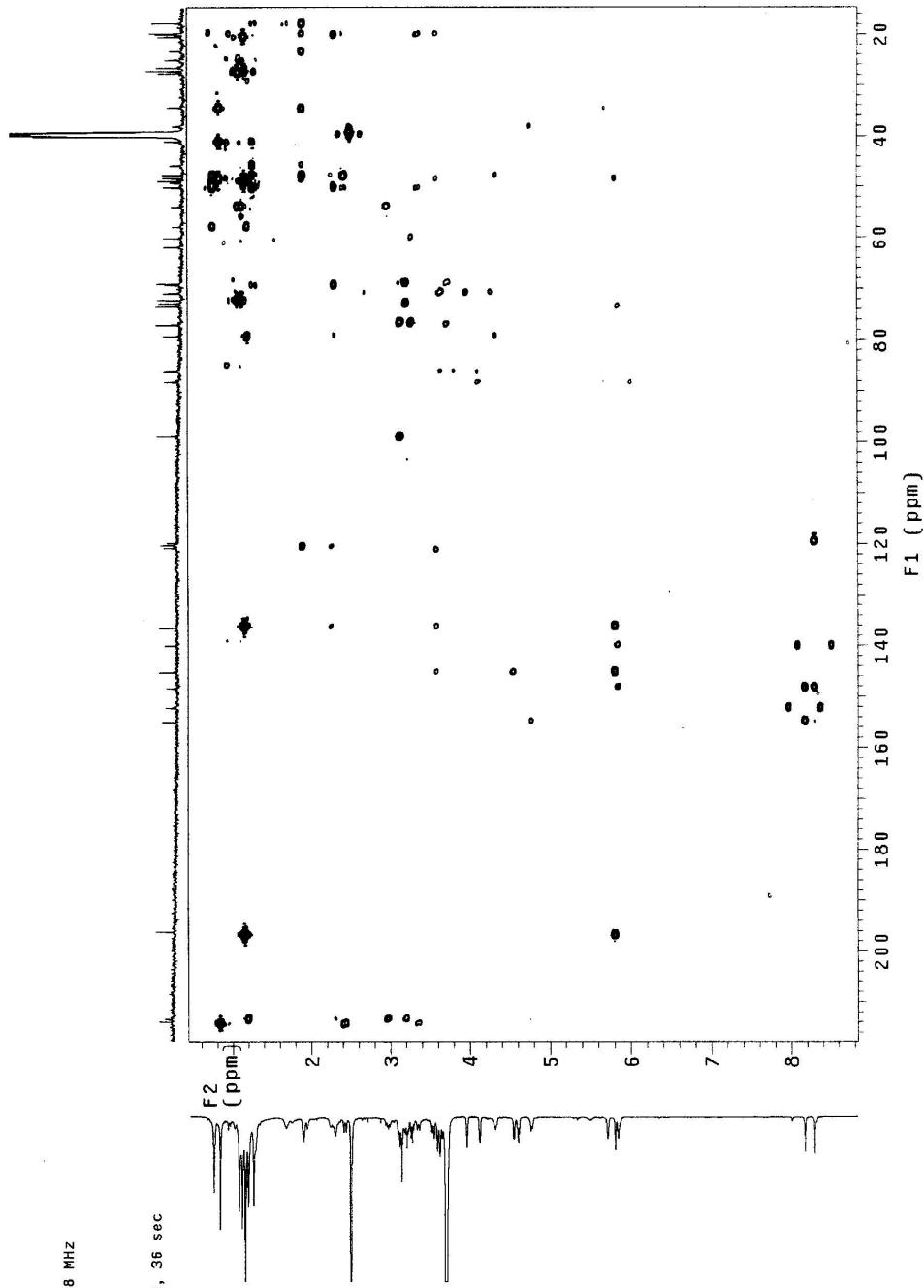


The HMQC Spectrum of Machilaminoside B (2) in DMSO-*d*₆

INOVA-501 gHMBC LMT-W2 IN DMSO+D2O 06_06_27
Archive directory: /export/home/nmr1/vnmrsys/data

Solvent: DMSO
Temp. 25.0 C / 298.1 K
User: 1-14-07
File: HMBC-DMSO+D2O-0628-LMT-W2
INOVA-500 "NMR501"

Relax. delay 1.000 sec
Acc. time 0.220 sec
Width 4644.1 Hz
20 Width 2734.6 Hz
128 repetitions
320 increments
OBSERVE H1 49.7474038 MHz
DATA PROCESSING
Sine bell 0.034 sec
F1 DATA PROCESSING
Sine bell 0.006 sec
FT size 2048 x 4096
Total time 14 hr, 53 min, 36 sec



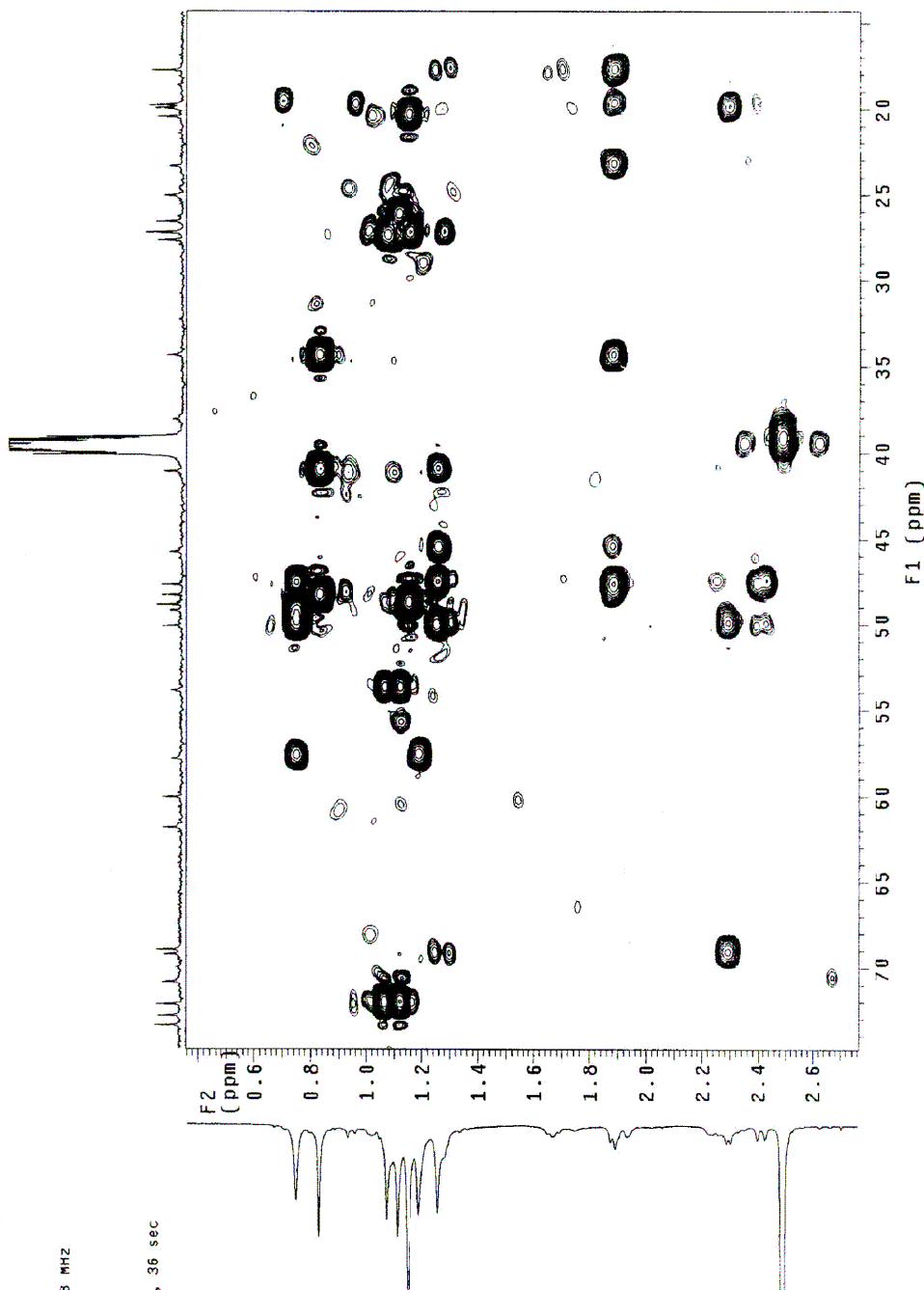
The HMBC Spectrum of Machilaminoside B (2) in DMSO-*d*₆+D₂O

INOVA-501 gHMBC LMT-W2 IN DMSO+D2O 06.06.27
Archive directory: /export/home/vnmr1/vnmr1sys/da

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Solvent: DMSO
Temp: 25 °C / 298.1 K
User: 1-14-87
File: HUBCDMSD+0000628-LMT-W2
INNOVA-5000 "NMR5001"

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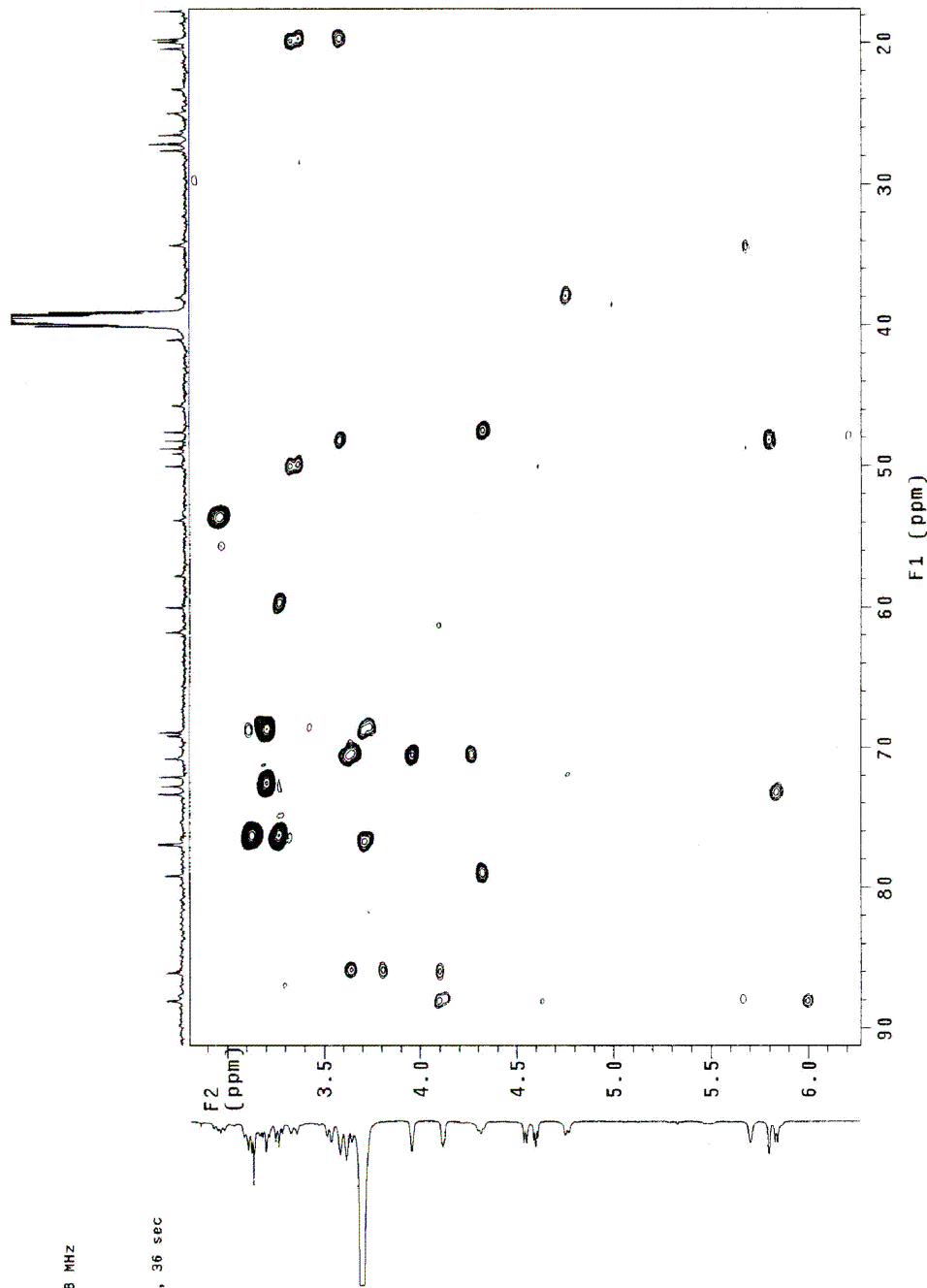


The Regional Enlarged HMBC Spectrum 1 of Machilaminoside B (2) in DMSO-*d*₆+D₂O

INOVA-501 qHMBC LMT-W2 IN DMSO-d6+D2O 06.06.27
Archive directory: /export/home/vnmr1/vnmrsys/data

Solvent: DMSO
Temp. 25.0 C / 298.1 K
User: 1-14-87
File: HMBC-CDMSO+d2O0628-LMT-W2
INOVA-500 "NMR501"

Relax. delay 1.000 sec
Acc. time 0.220 sec
Width 4644.1 Hz
2D Width 2734.6 Hz
128 repetitions
320 increments
OBSERVE H1, 49.7474038 MHz
DATA PROCESSING
Sine bell 0.034 sec
F1 DATA PROCESSING
Sine bell 0.006 sec
FT size 2048 x 4096
Total time 14 hr, 53 min, 36 sec

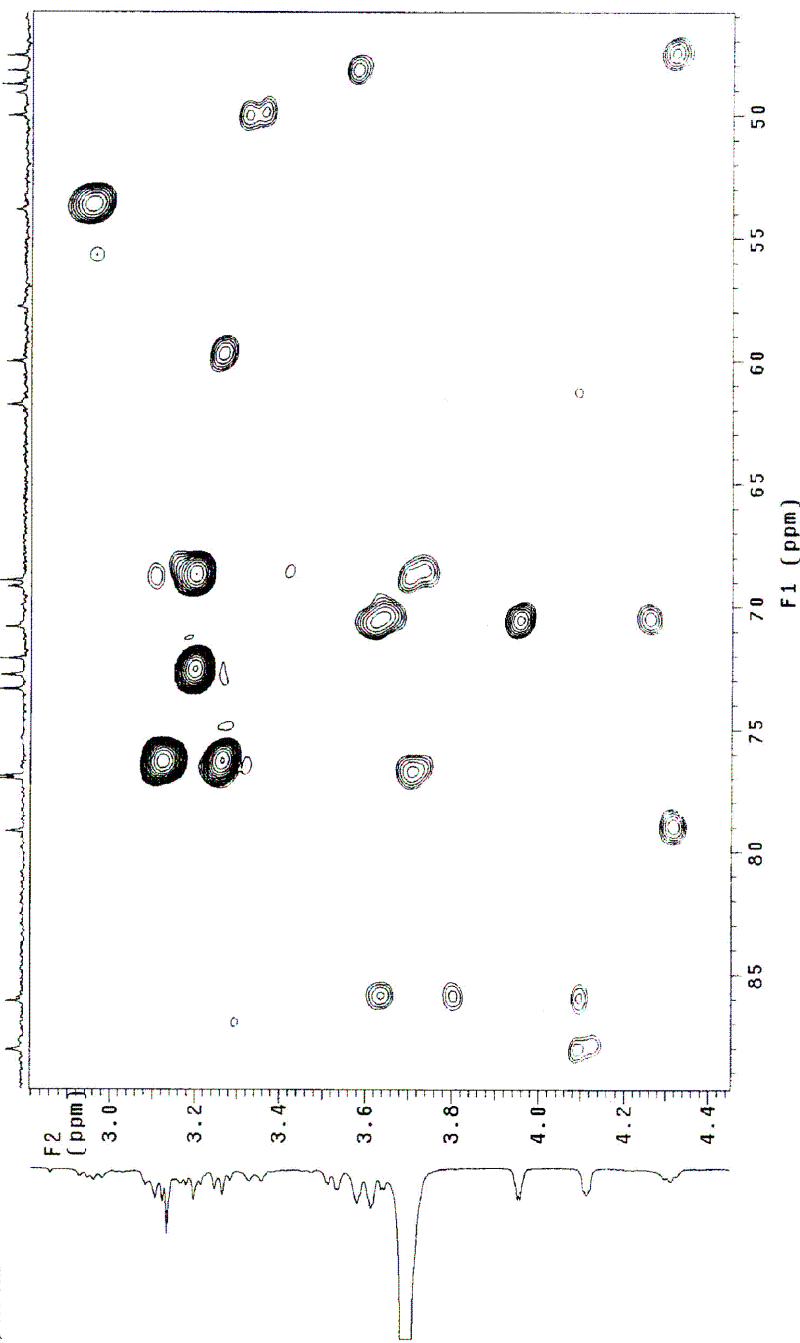


The Regional Enlarged HMBC Spectrum 2 of Machilaminoside B (2) in DMSO-*d*₆+D₂O

INDIYA-501 gHMBC LMT-W2 IN DMSO+D2O 06.06.27
Archive directory: /export/home/vnmr1/vnmrsvs/data

Solvent: DMSO
Temp. 25.0 C / 298.1 K
User: 1-14-07
File: HMBCDMSO+D2O0628-LMT-W2
INDIYA-500 "NMR501"

Relax. delay 1.000 sec
Acc. time 0.220 sec
Width 46.041.1 Hz
2D Width 27574.6 Hz
128 repetitions
32.0 scans
OBSERVE F1, 49.7474038 MHz
DATA PROCESSING
Sine bell 0.034 sec
F1 DATA PROCESSING
Sine bell 0.006 sec
FT size 2048 x 4096
Total time 14 hr, 53 min, 36 sec

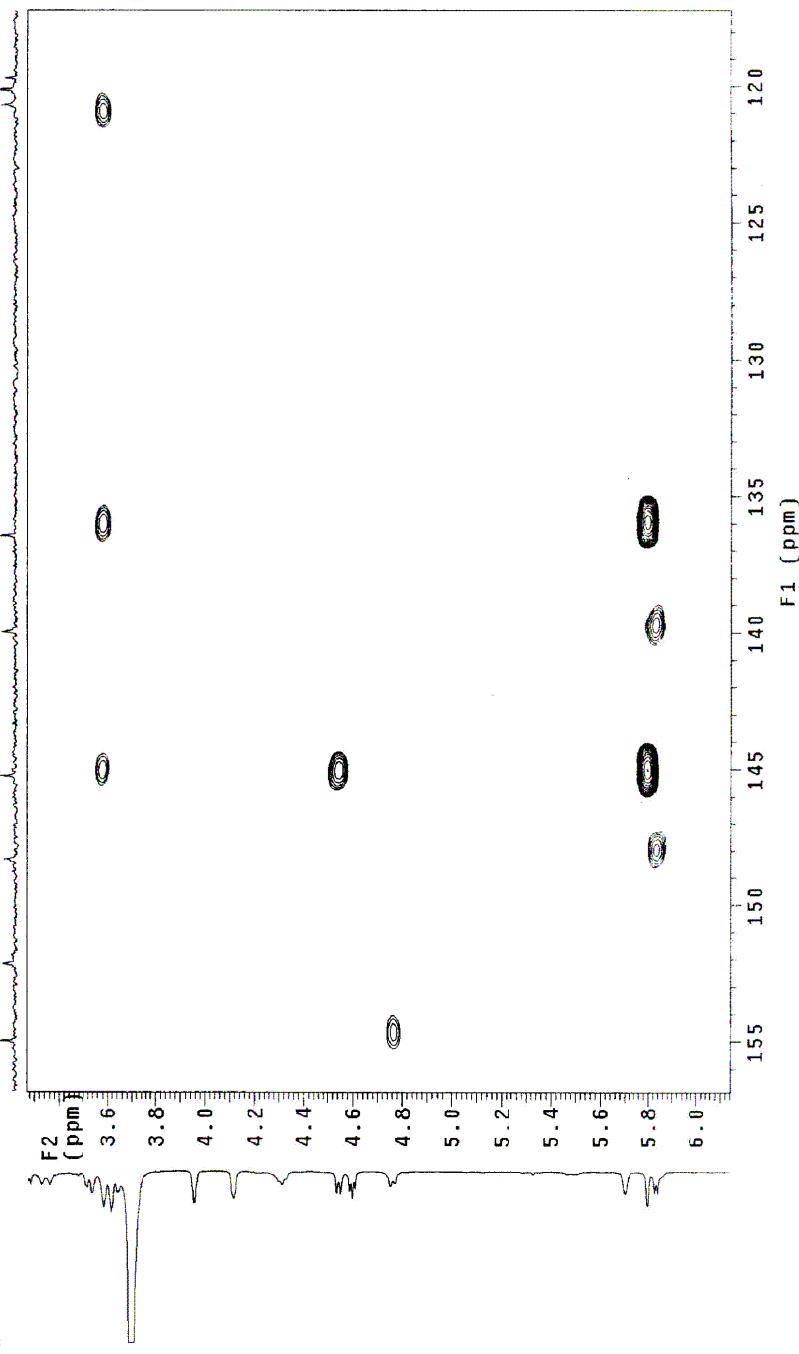


The Regional Enlarged HMBC Spectrum 3 of Machilaminoside B (2) in DMSO-*d*₆+D₂O

INNOVA-501 gHMBC LMT-W2 IN DMSO-d6-D2O 06 06 27
Archive directory: /export/home/vnmr1/vnmrsys/data

Solvent: DMSO
Temp. 25.0 C / 298.1 K
User: 1-14-87 /
File: HMBCDMSO-d200628-LMT-W2
INNOVA-500 "NMR501"

Relax. delay 1.000 sec
Acq. time 0.220 sec
Width 4044.1 Hz
2D Width 27874.6 Hz
128 repetitions
320 increments
obsfreq H1 499.7474038 MHz
DATA PROCESSING
Sine bell 0.030 sec
F1 DATA PROCESSING
Sine bell 0.006 sec
FT size 2048 x 4096
Total time 14 hr, 53 min, 36 sec

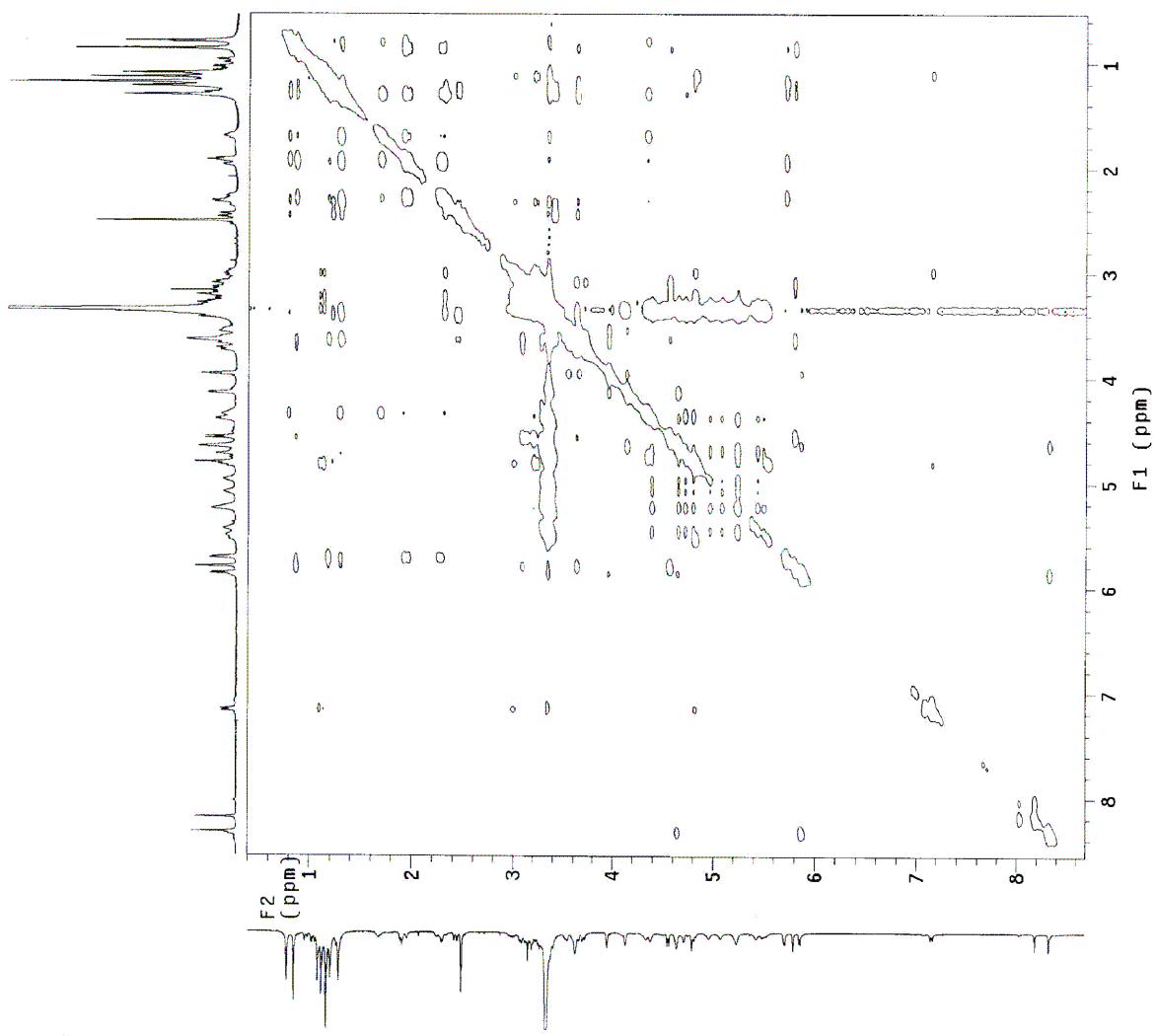


The Regional Enlarged HMBC Spectrum 4 of Machilaminoside B (2) in DMSO-*d*₆+D₂O

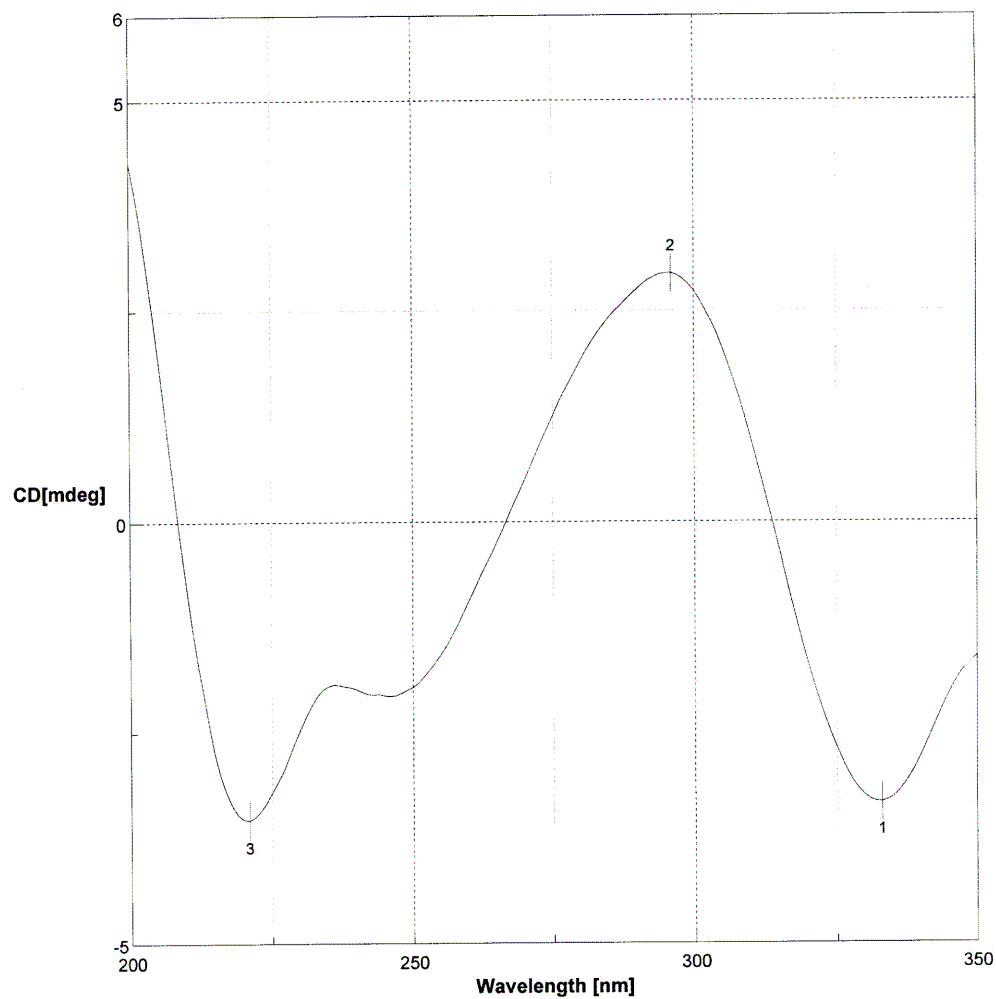
INOVA-501 NOESY LMT-W2 IN DMSO 06.04.06
Archive directory: /export/home/vnmrl1/vnmrjsys/data

Solvent: DMSO
Temp.: 25.0 °C / 298.1 K
F1/e: NOESY 00407-LMT-W2
INOVA-500 "NMR501"

Relax. delay 1.000 sec
Mixing 0.800 sec
Acc. time 0.207 sec
Width 498.7 Hz
2D Width 498.7 Hz
16 repetitions
2 x 200 increments
OBSERVE H1: 499.7474038 MHz
DATA PROCESSING
Gauss apodization 0.055 sec
F1 DATA PROCESSING 0.055 sec
Gauss apodization 0.013 sec
FFT size 4096 x 4096
Total time 4 hr, 43 min, 4 sec



The NOESY Spectrum of Machilaminoside B (2) DMSO-*d*₆



Date/Time 2006-10-27 11:41
 Operator
 File Name Memory#2
 Sample Name Imt-w2
 Comment

No.	nm	CD[mdeg]	No.	nm	CD[mdeg]	No.	nm	CD[mdeg]
1	333	-3.32716	2	296	2.94265	3	221	-3.53216

The CD Spectrum of Machilaminoside B (2) in MeOH