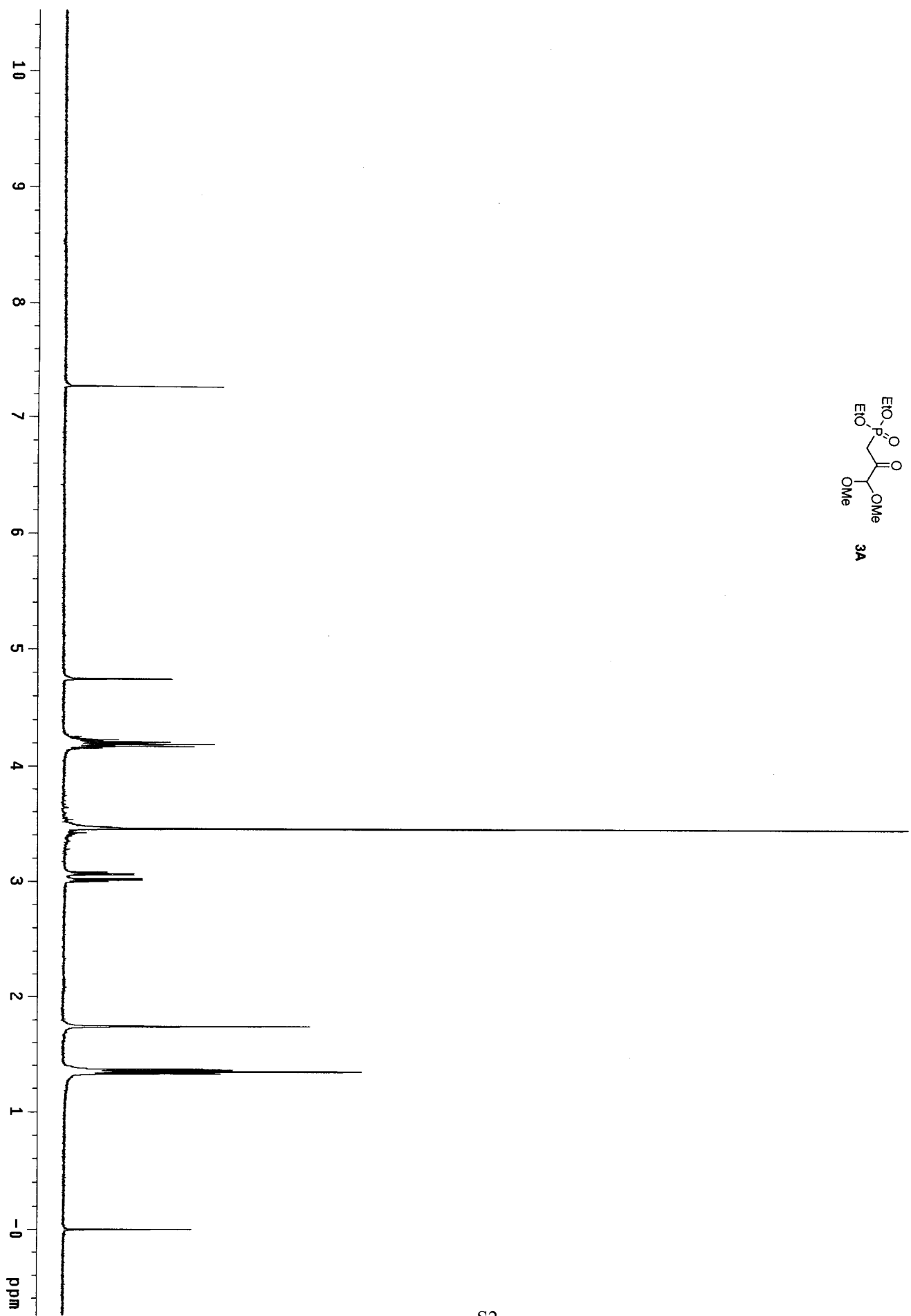


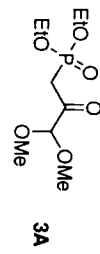
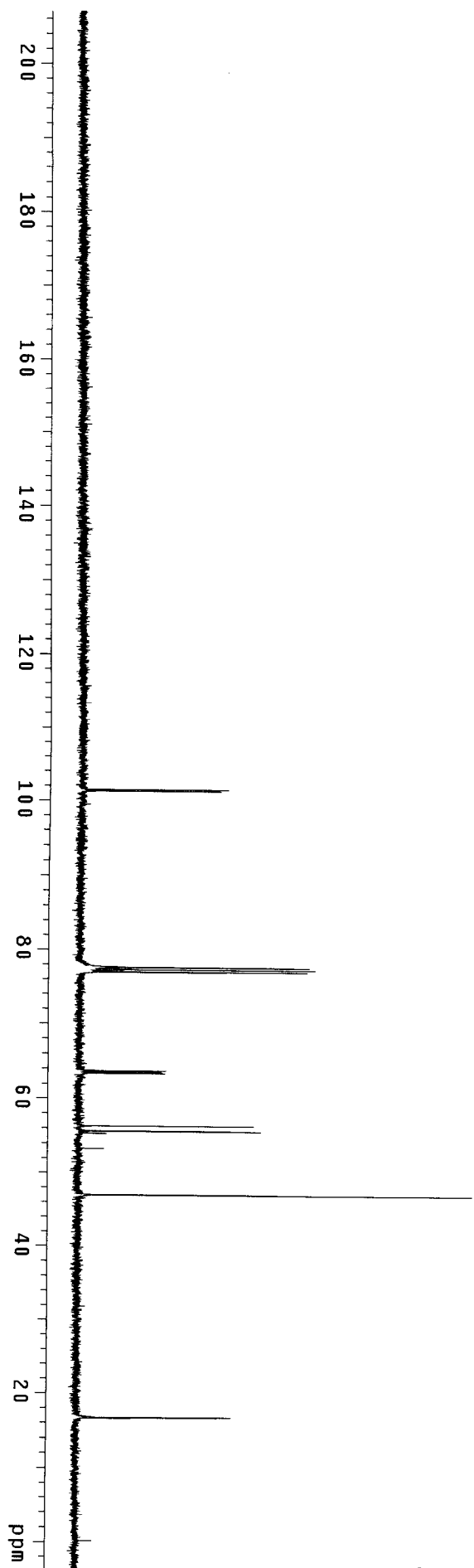
Supplementary Information for:
Synthetic Bacteriochlorins with Integral Spiro-piperidine Motifs

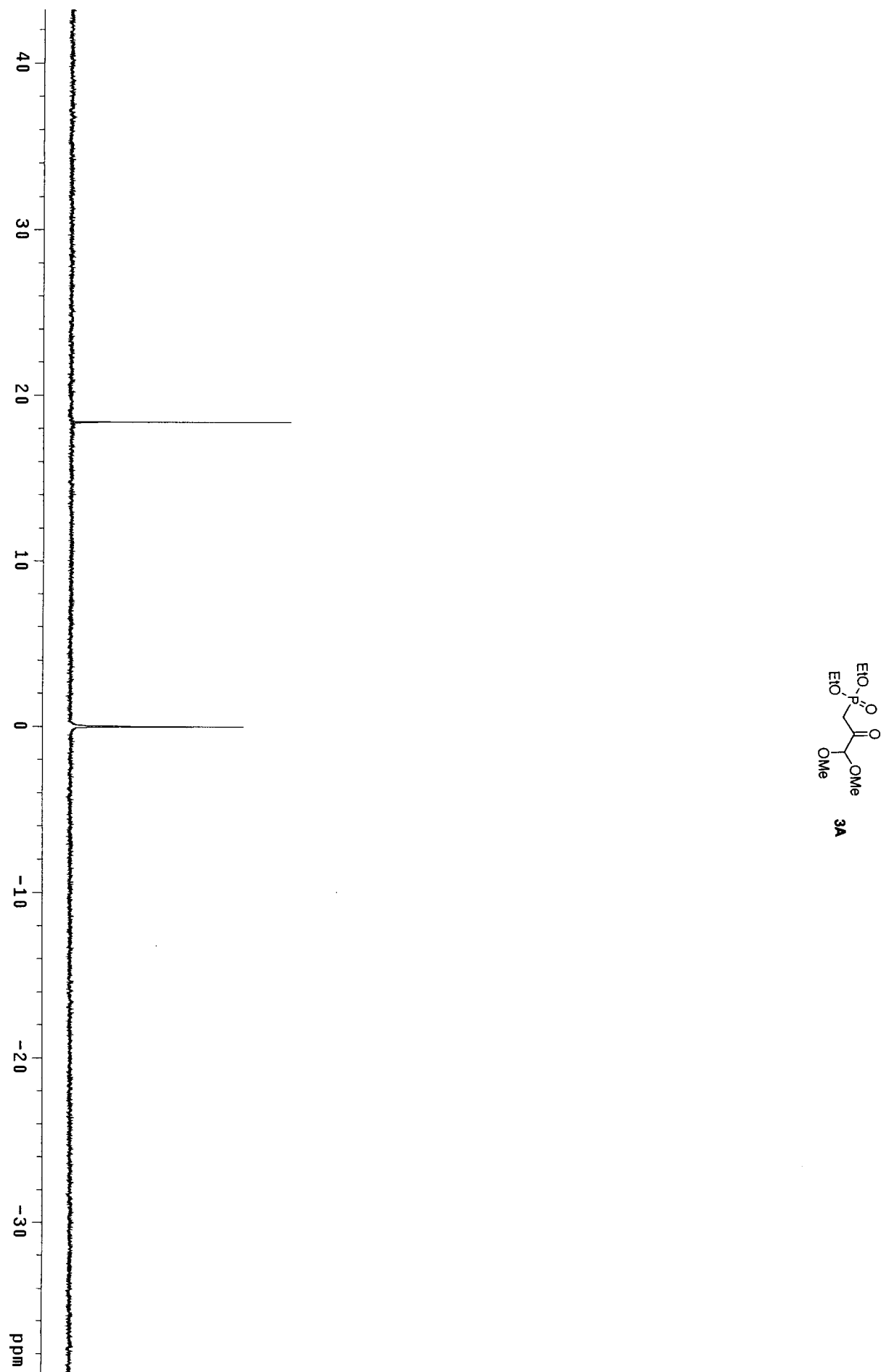
Kanumuri Ramesh Reddy, Elisa Lubian, M. Phani Pavan,
Han-Je Kim, Eunkyung Yang, Dewey Holten, and Jonathan S. Lindsey

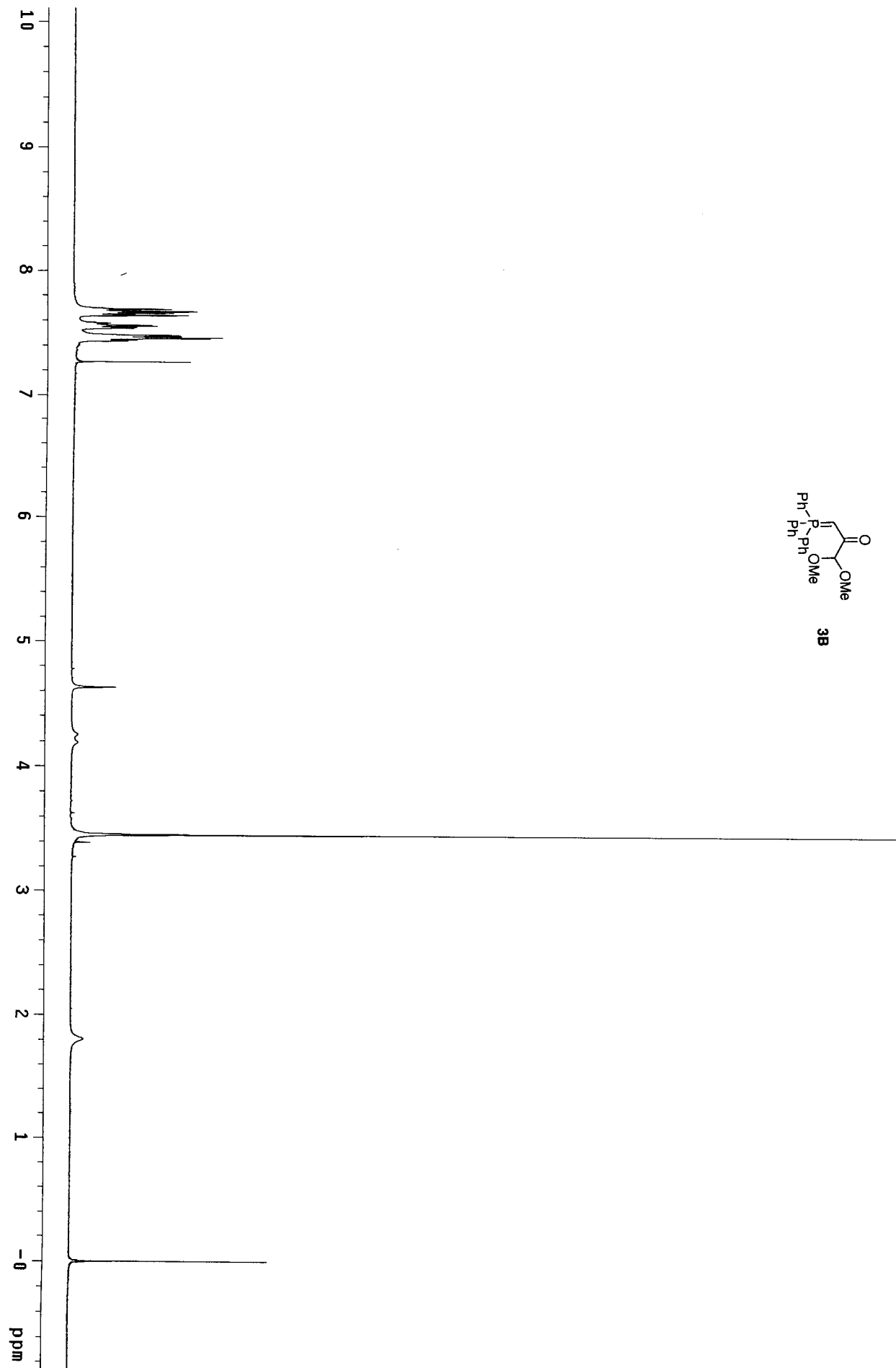
Table of Contents

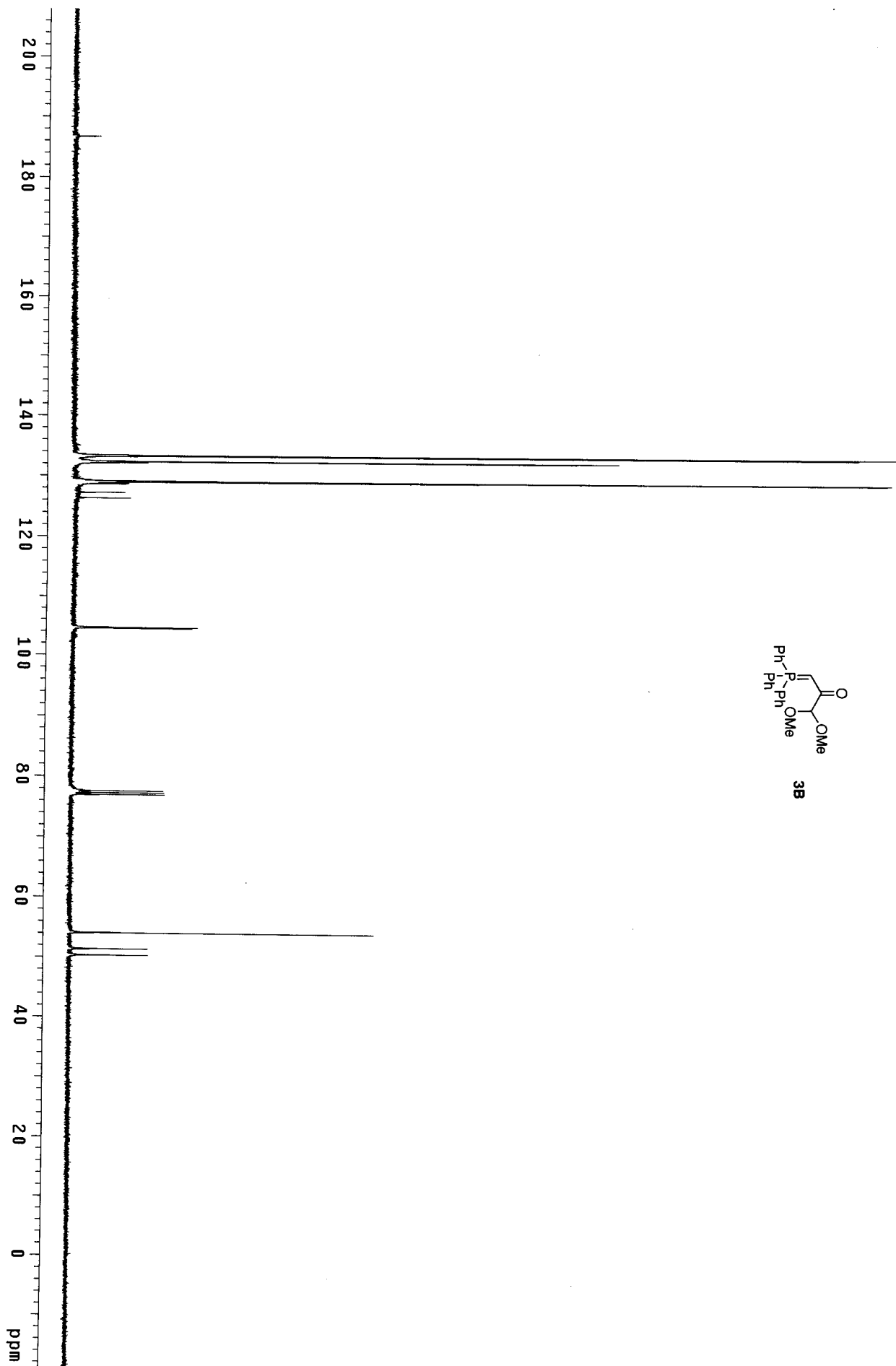
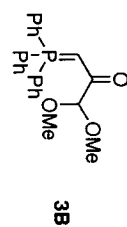
Topic	Page
Characterization data for new compounds	S2-S81

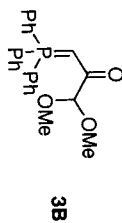
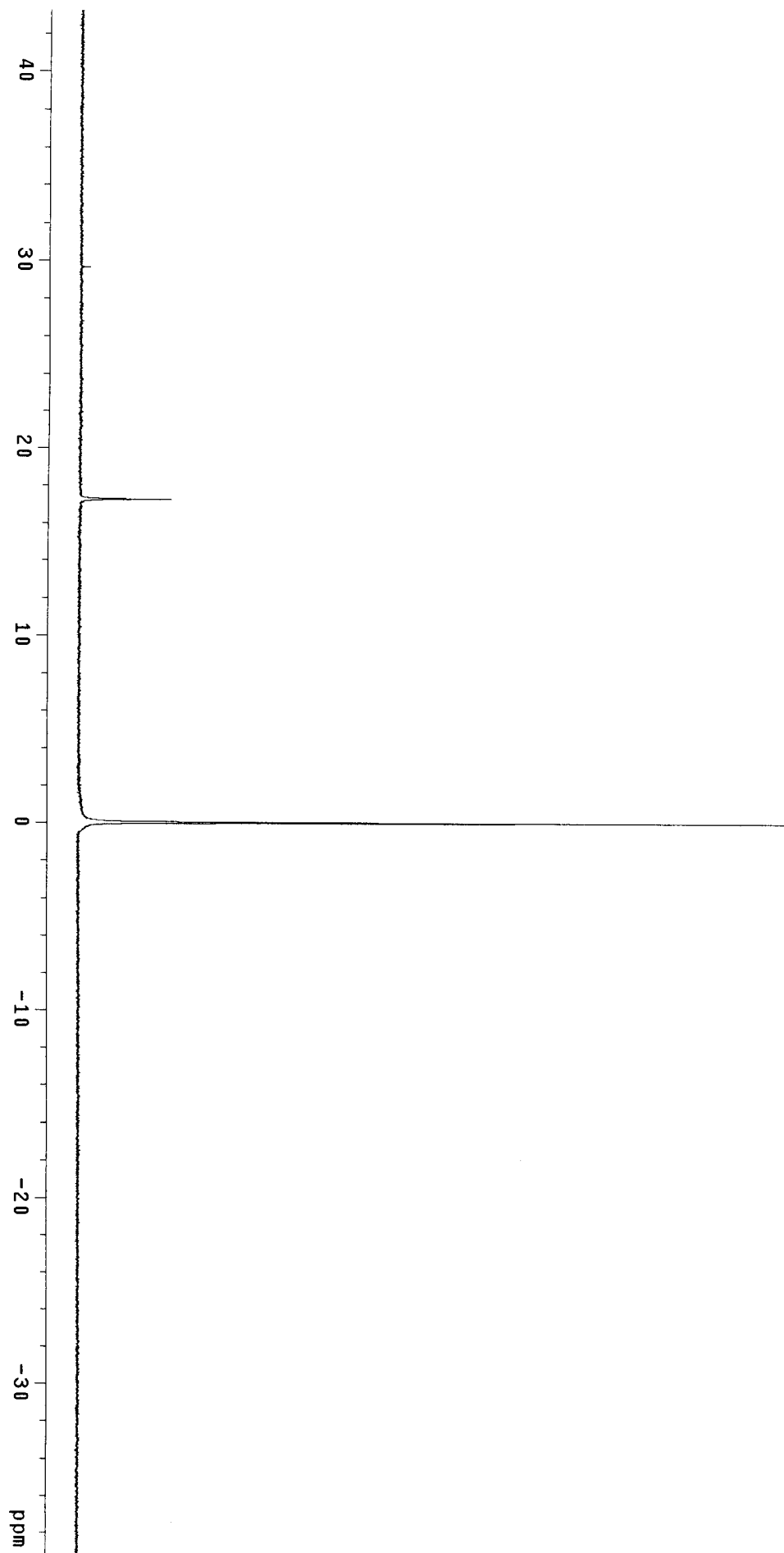


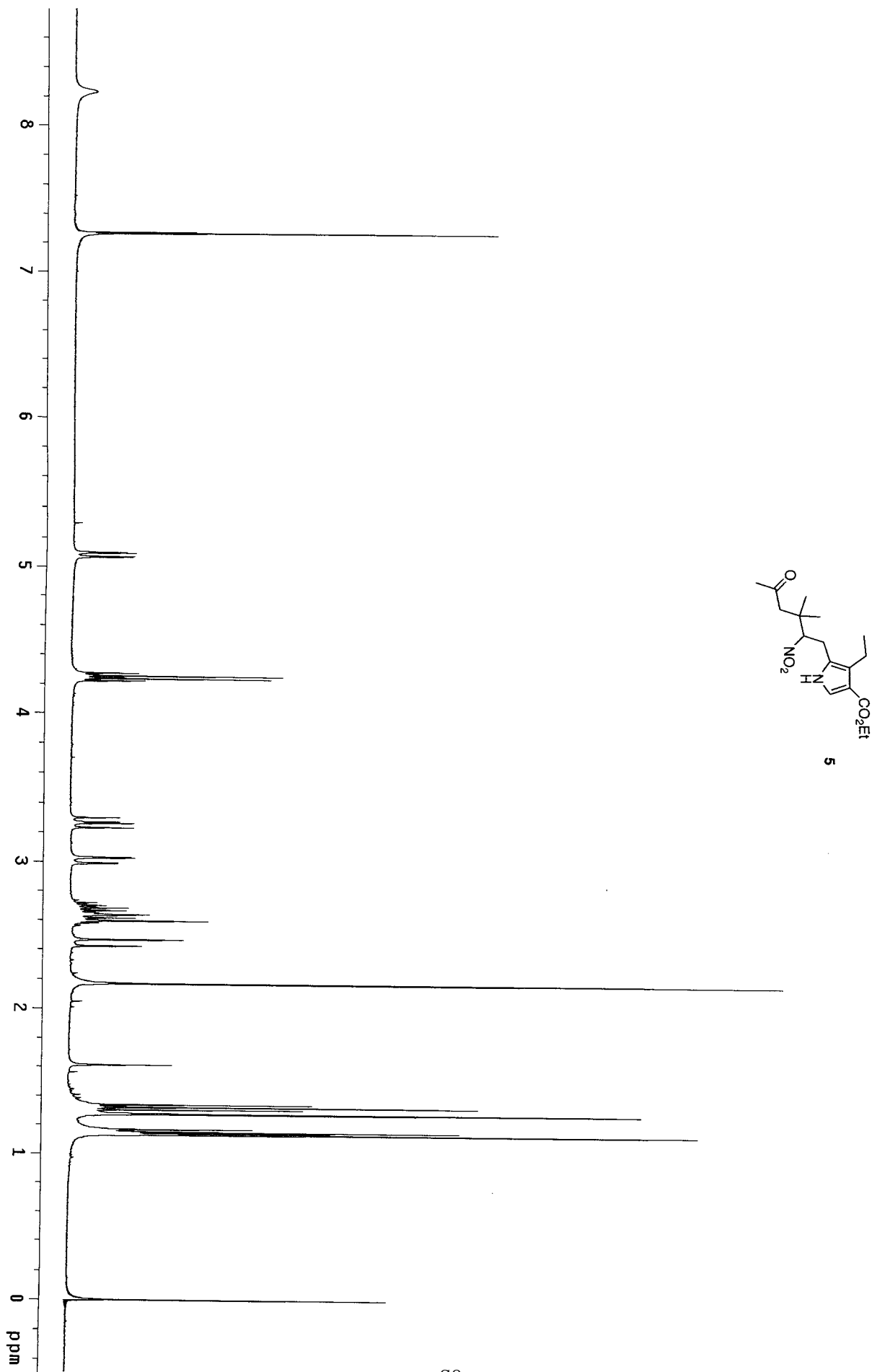


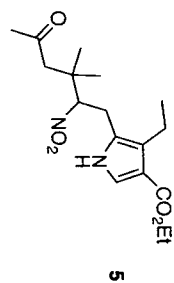
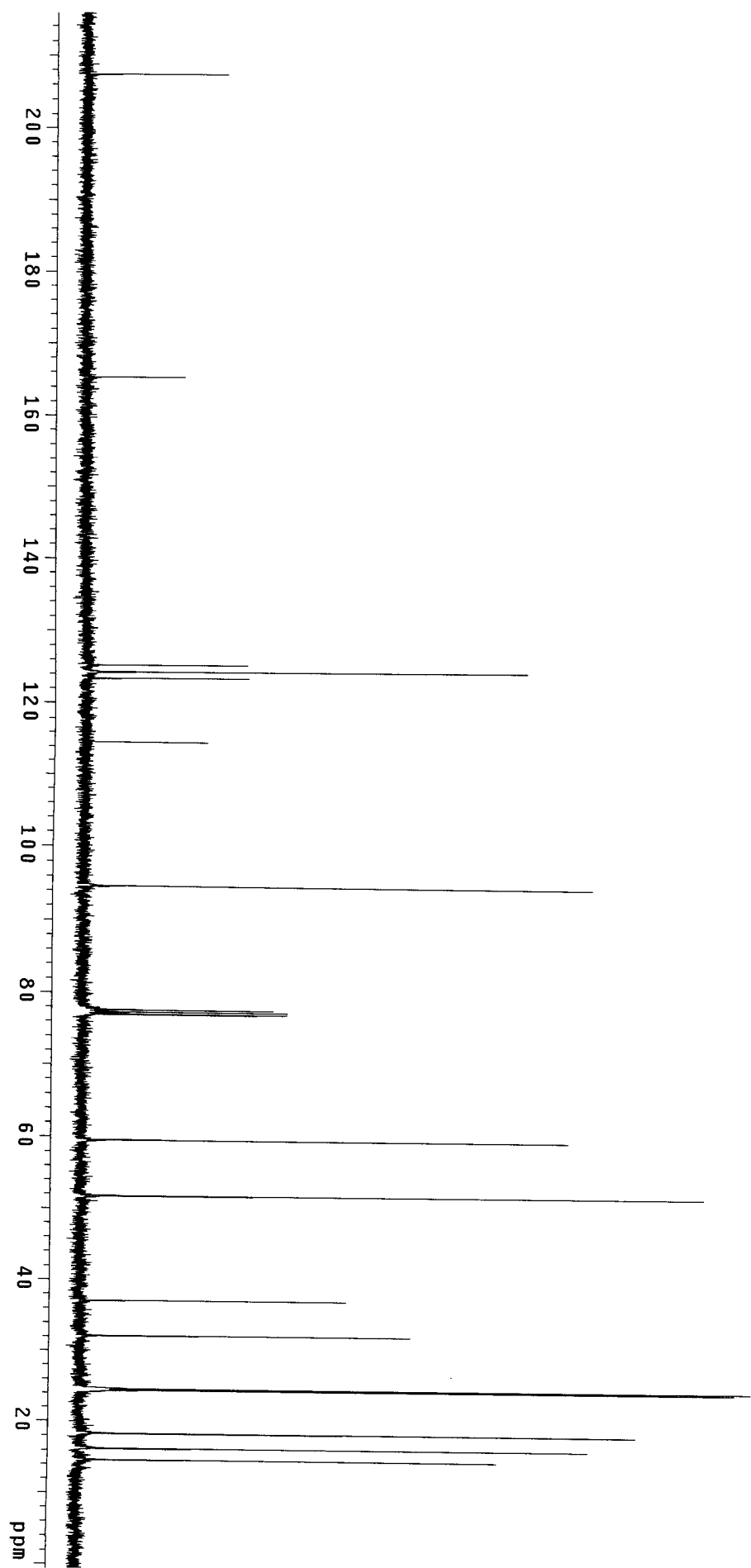


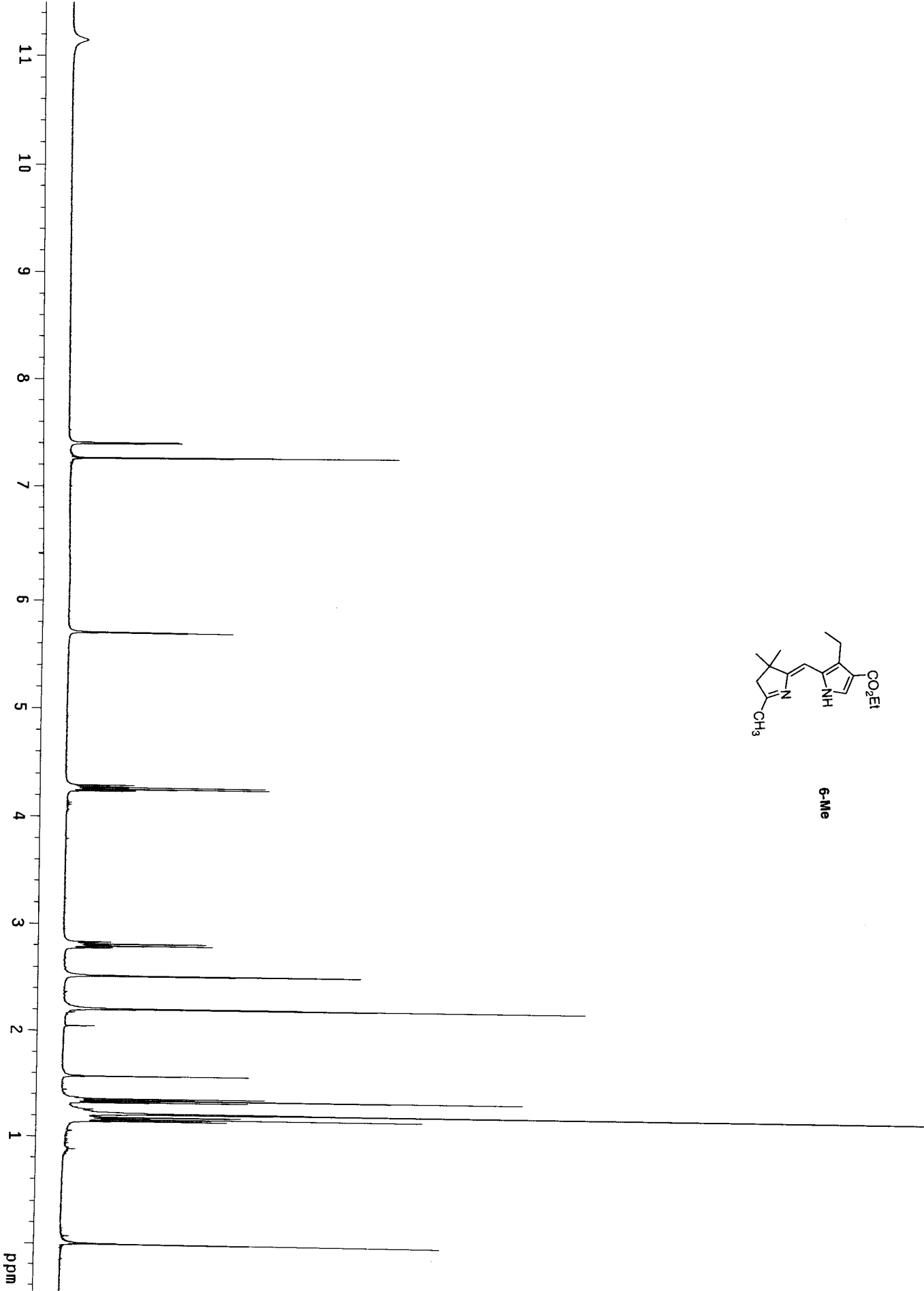


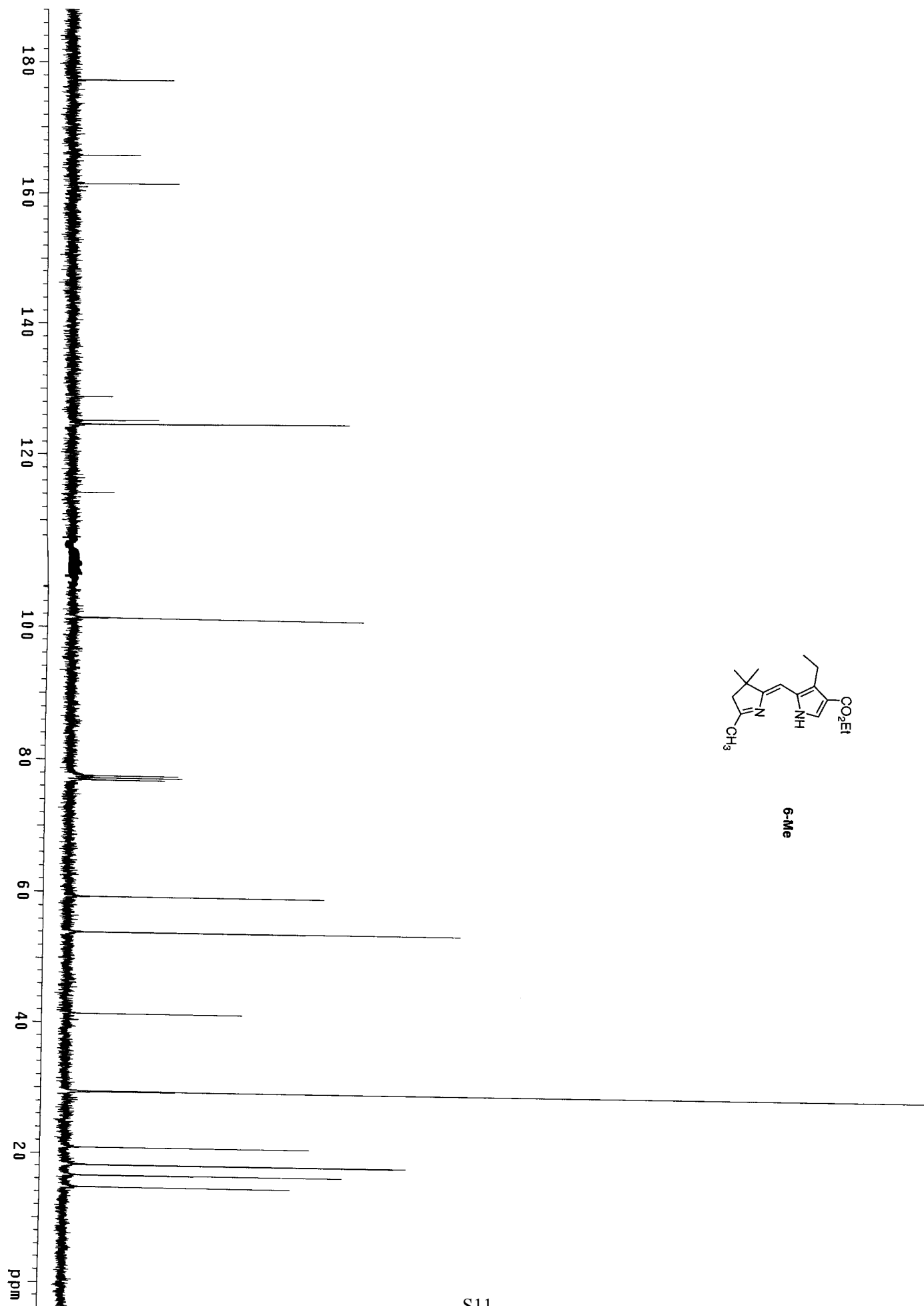










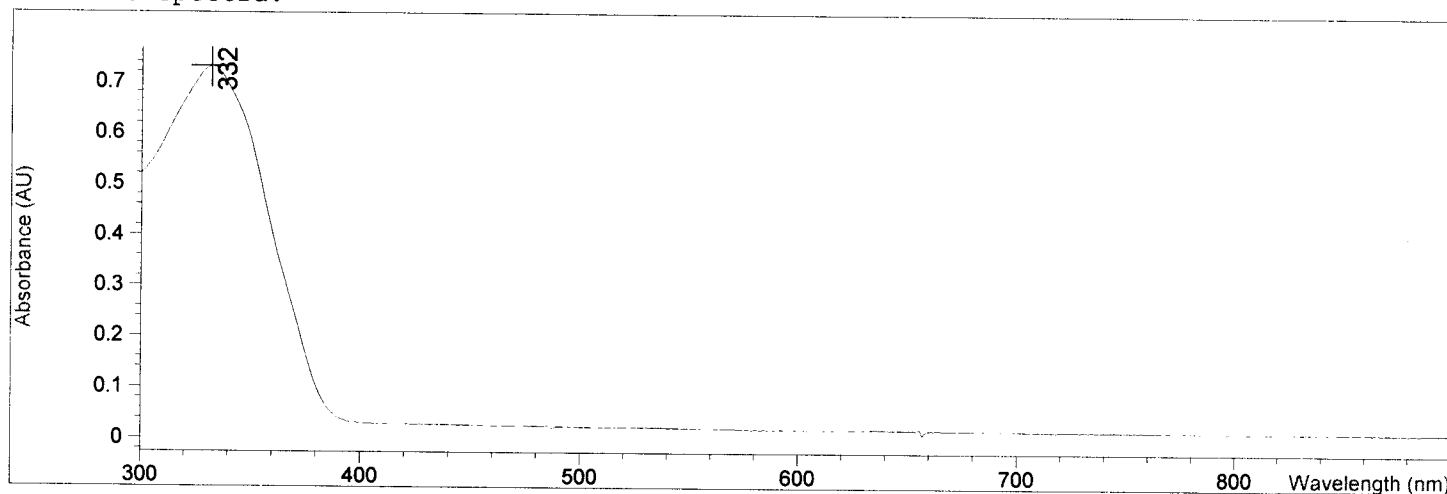


Spectrum/Peak Report

Date 12/16/2012 Time 13:16:03 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\Chem32\1\DATA\Han-Je2012\HJK-08-09-1DHDP.SD Created :
1/16/12 10:44:01

Overlaid Spectra:

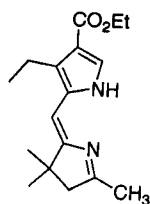


#	Name	Peaks (nm)	Abs (AU)
1		332.0	0.73053

Report generated by : Lindsey Lab

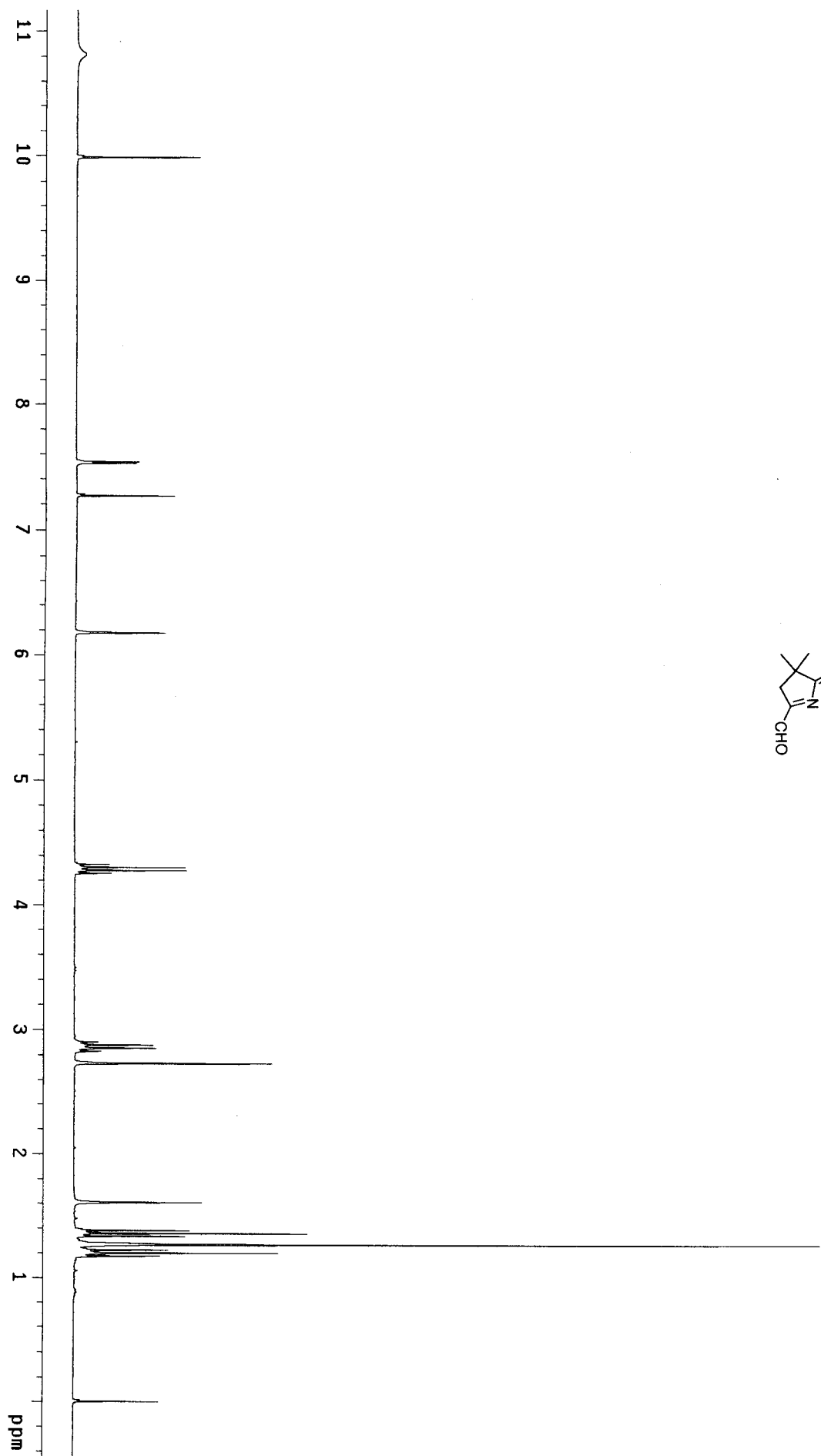
Signature:

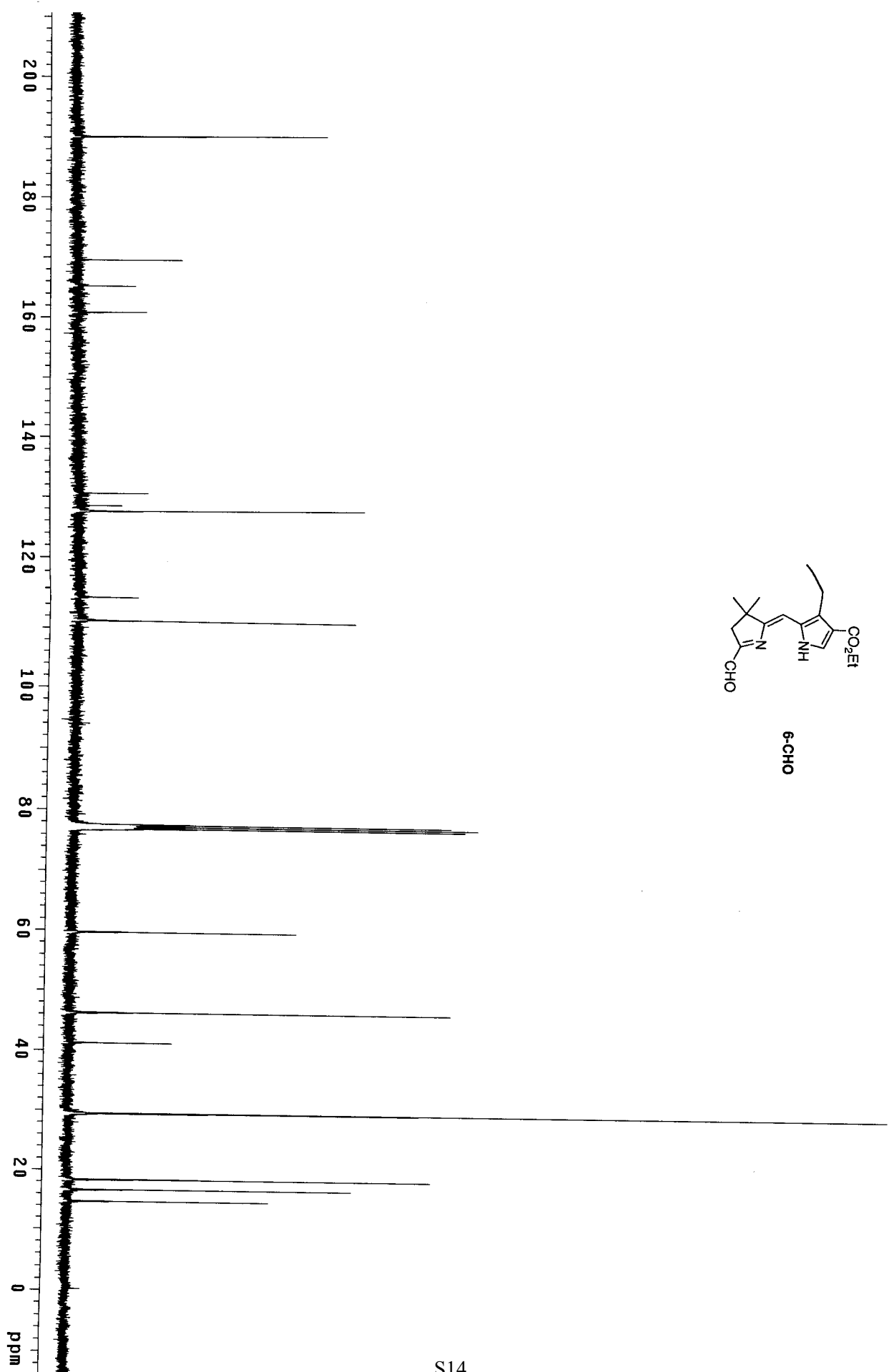
*** End Spectrum/Peak Report ***



6-Me

Solvent : Toluene



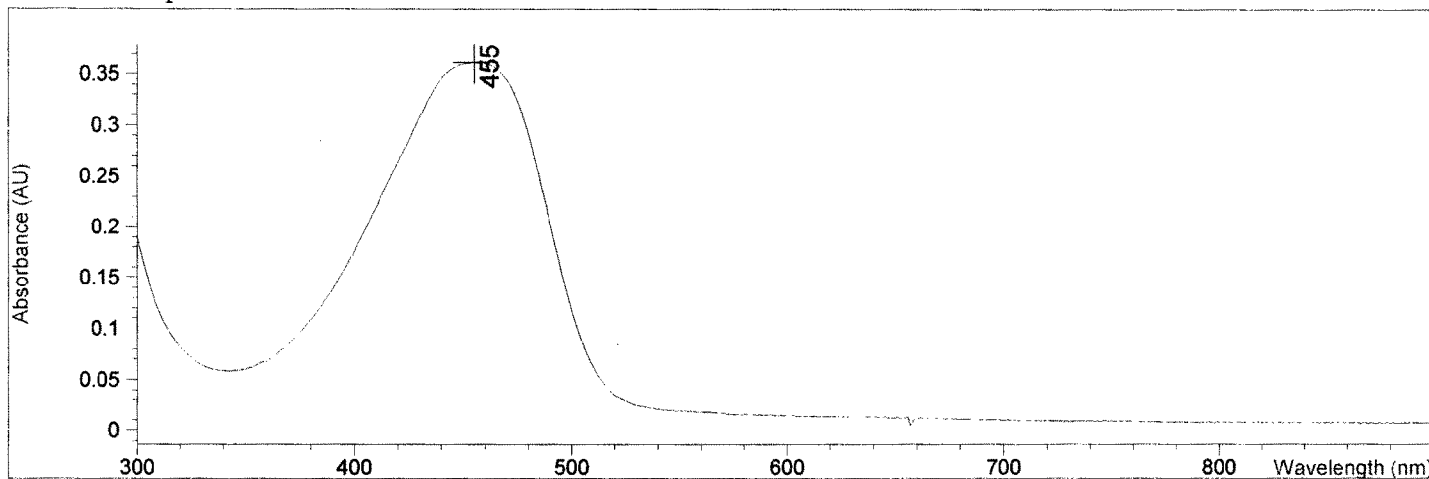


Spectrum/Peak Report

Date 12/16/2012 Time 13:17:37 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\Chem32\1\DATA\Han-Je2012\HJK-08-13-1DHCHO1.SD Created :
1/16/12 11:03:34

Overlaid Spectra:

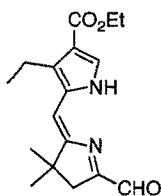


#	Name	Peaks (nm)	Abs (AU)
1		455.0	0.36124

Report generated by : Lindsey Lab

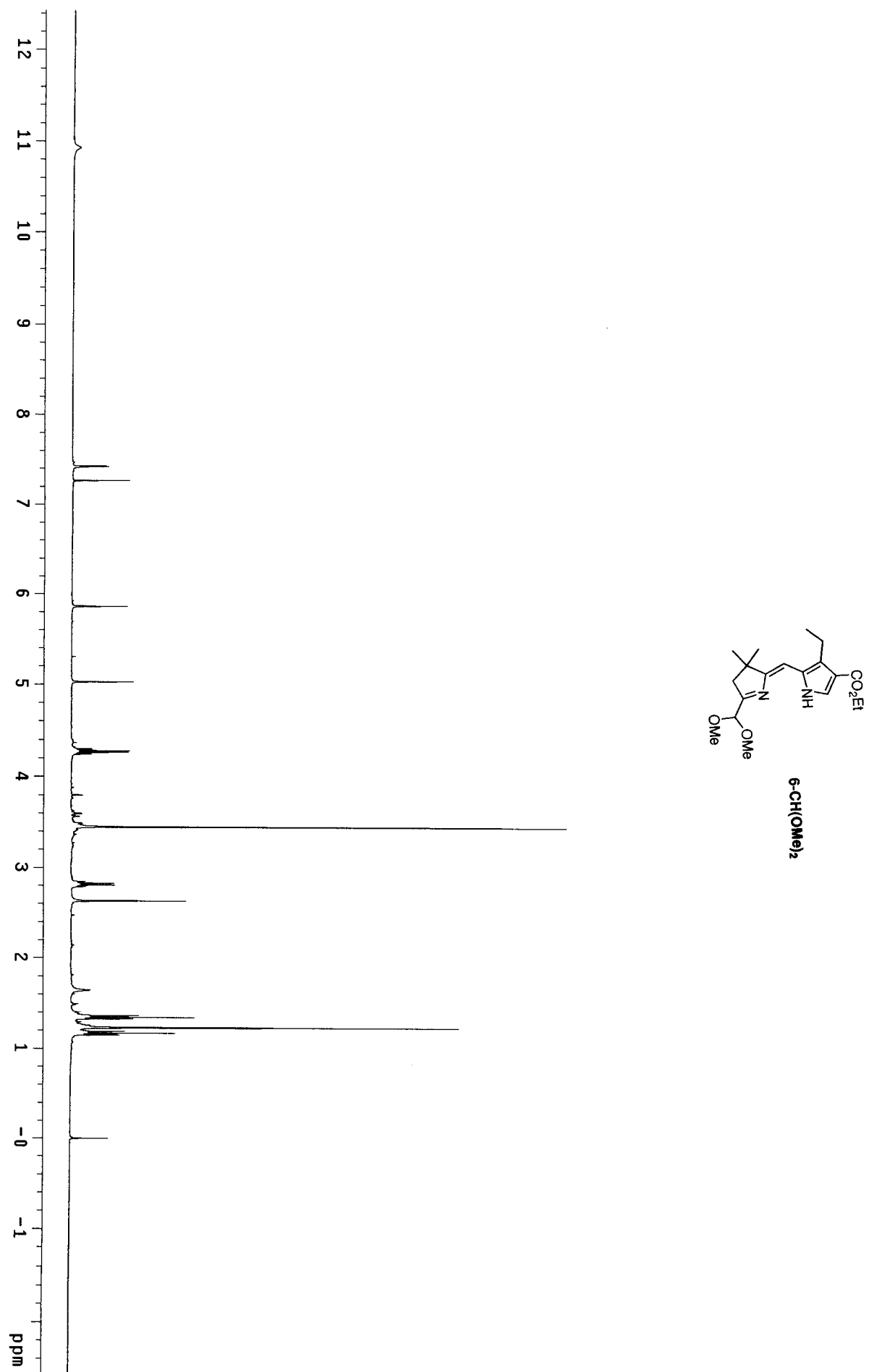
Signature:

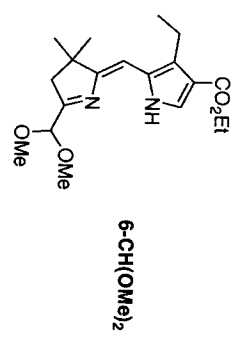
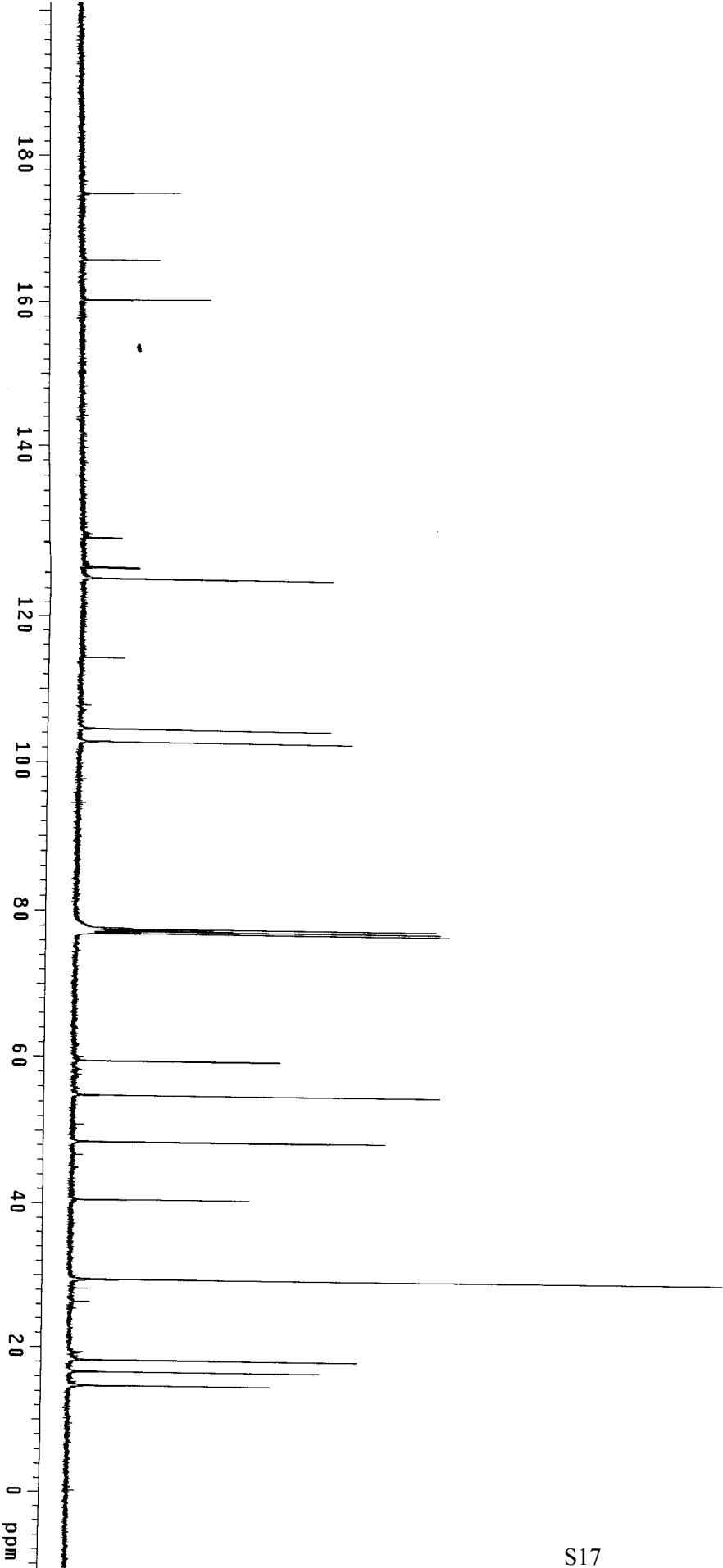
*** End Spectrum/Peak Report ***



6-CHO

Solvent : Toluene

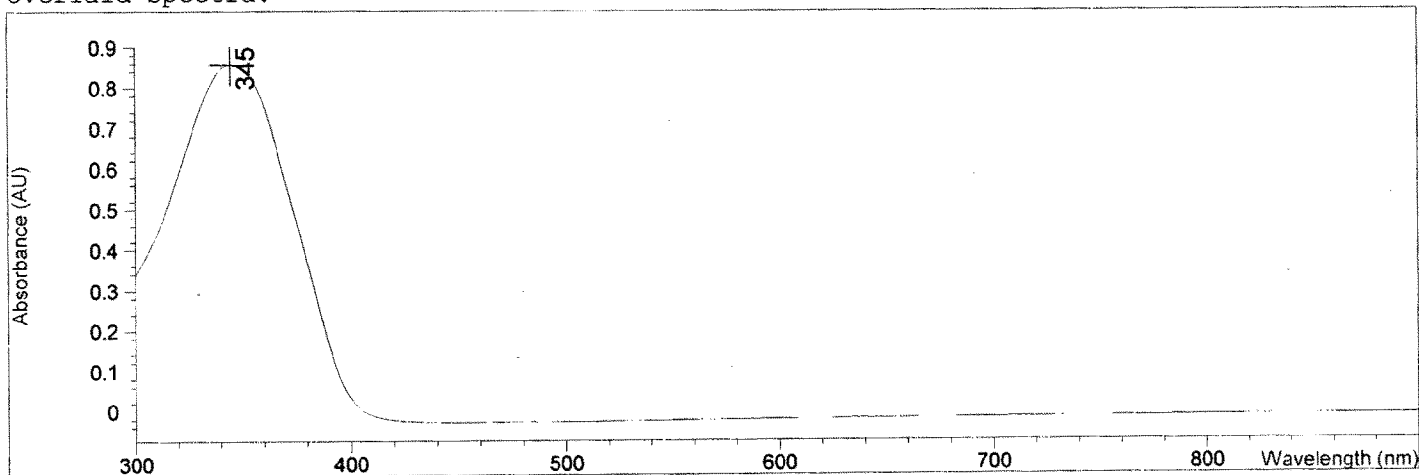




6-CH(OMe)₂

Method file : <untitled>
Information : Default Method
Data File : C:\CHEM32\1\DATA\RAMESH\PHANI-SIMPLE ACETAL (TOLUENE).SD
Created : 12/16/12 12:58:13

Overlaid Spectra:

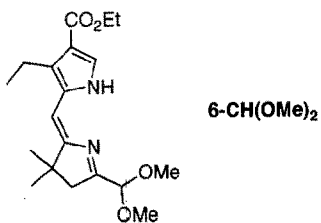


#	Name	Peaks (nm)	Abs (AU)
1		345.0	0.85809

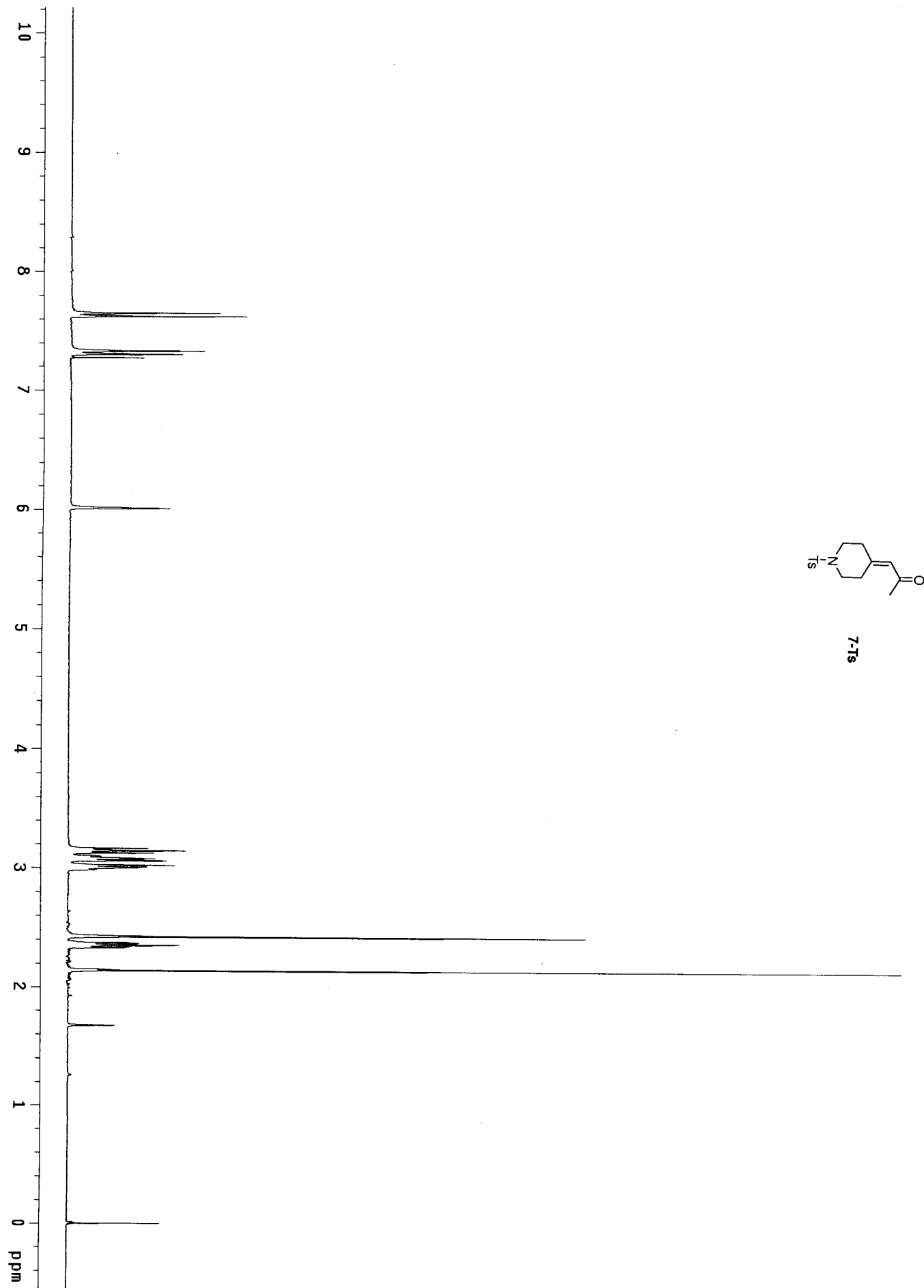
Report generated by : Lindsey Lab

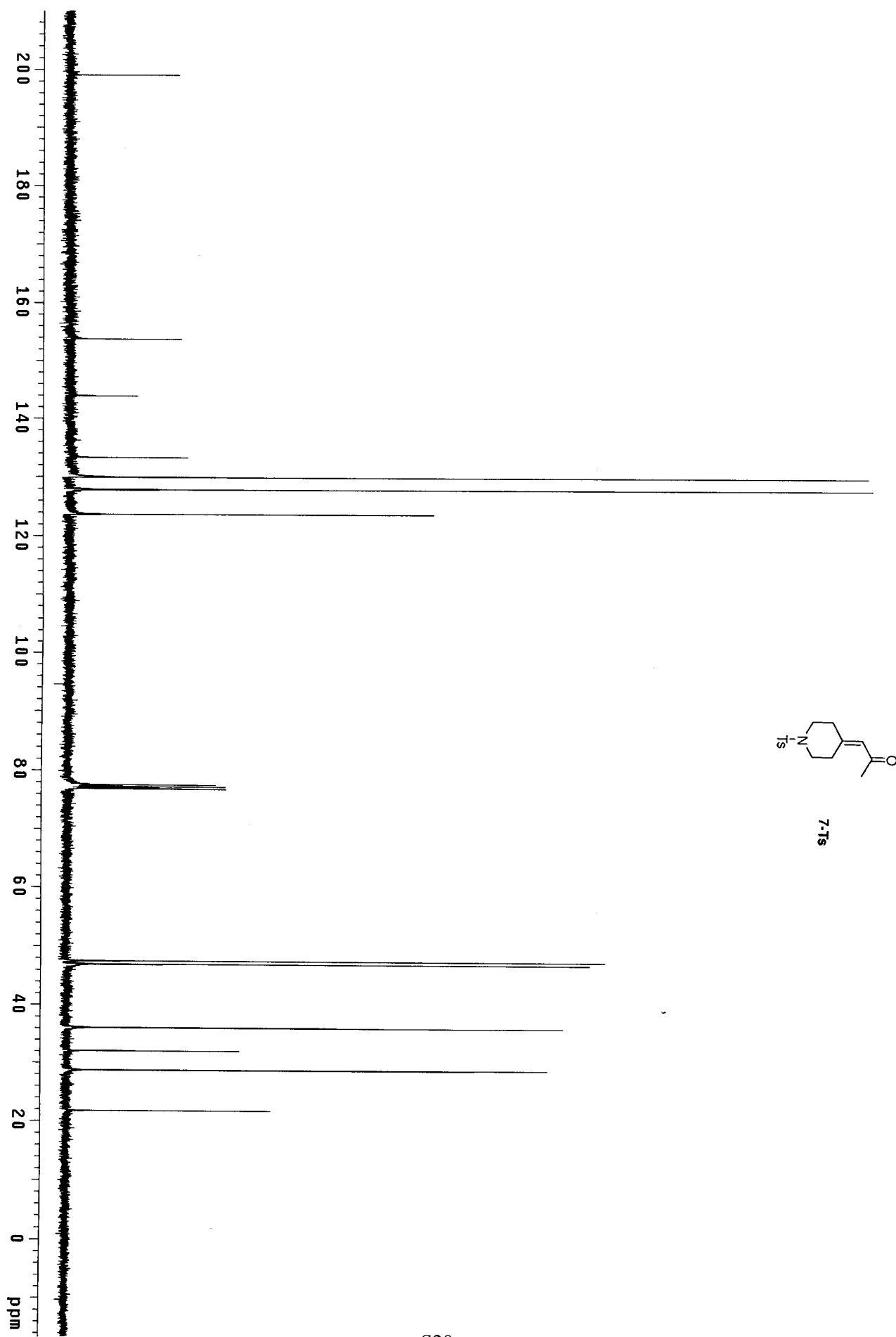
Signature:

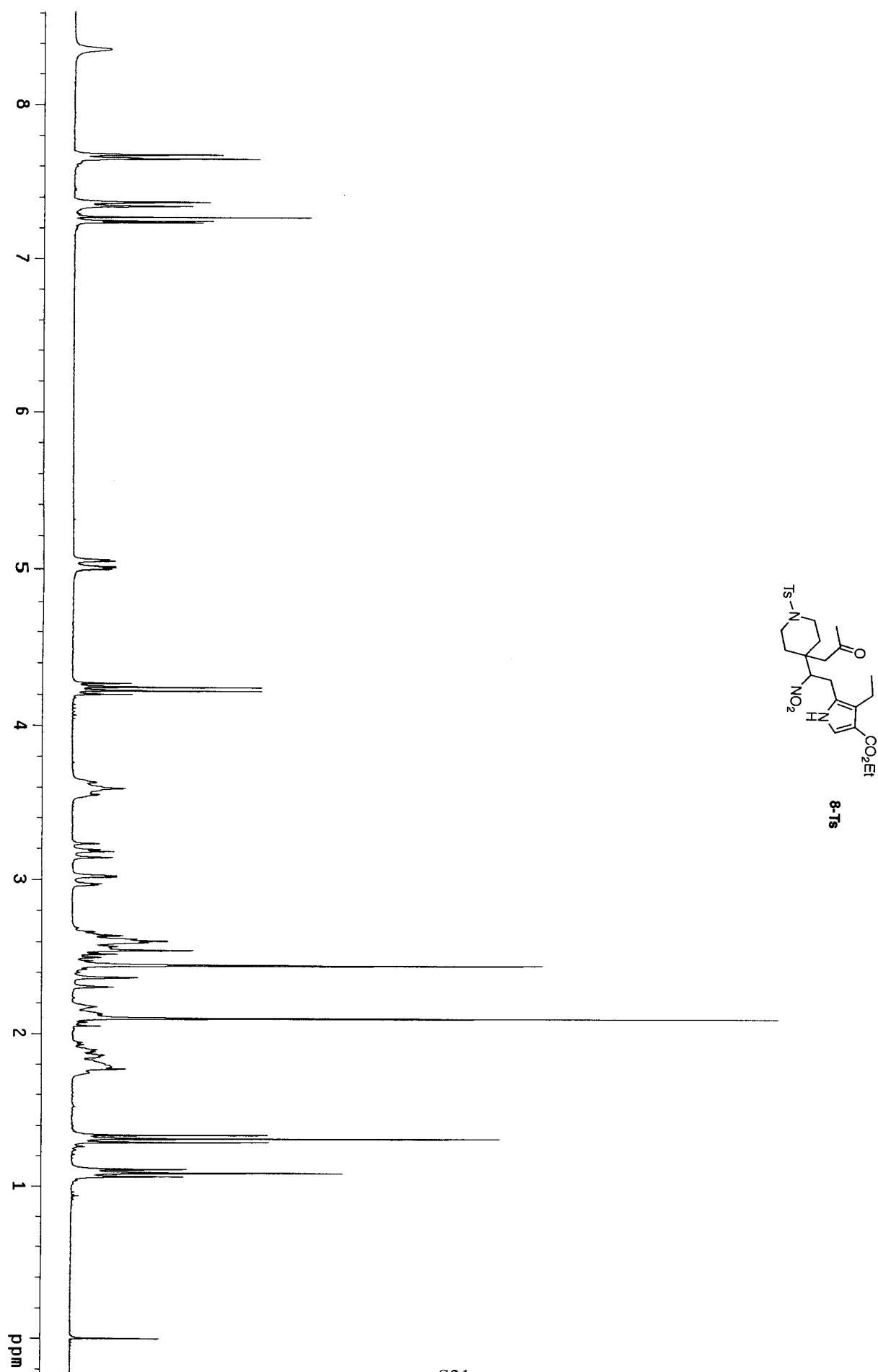
*** End Spectrum/Peak Report ***

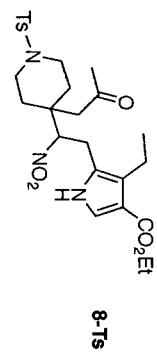
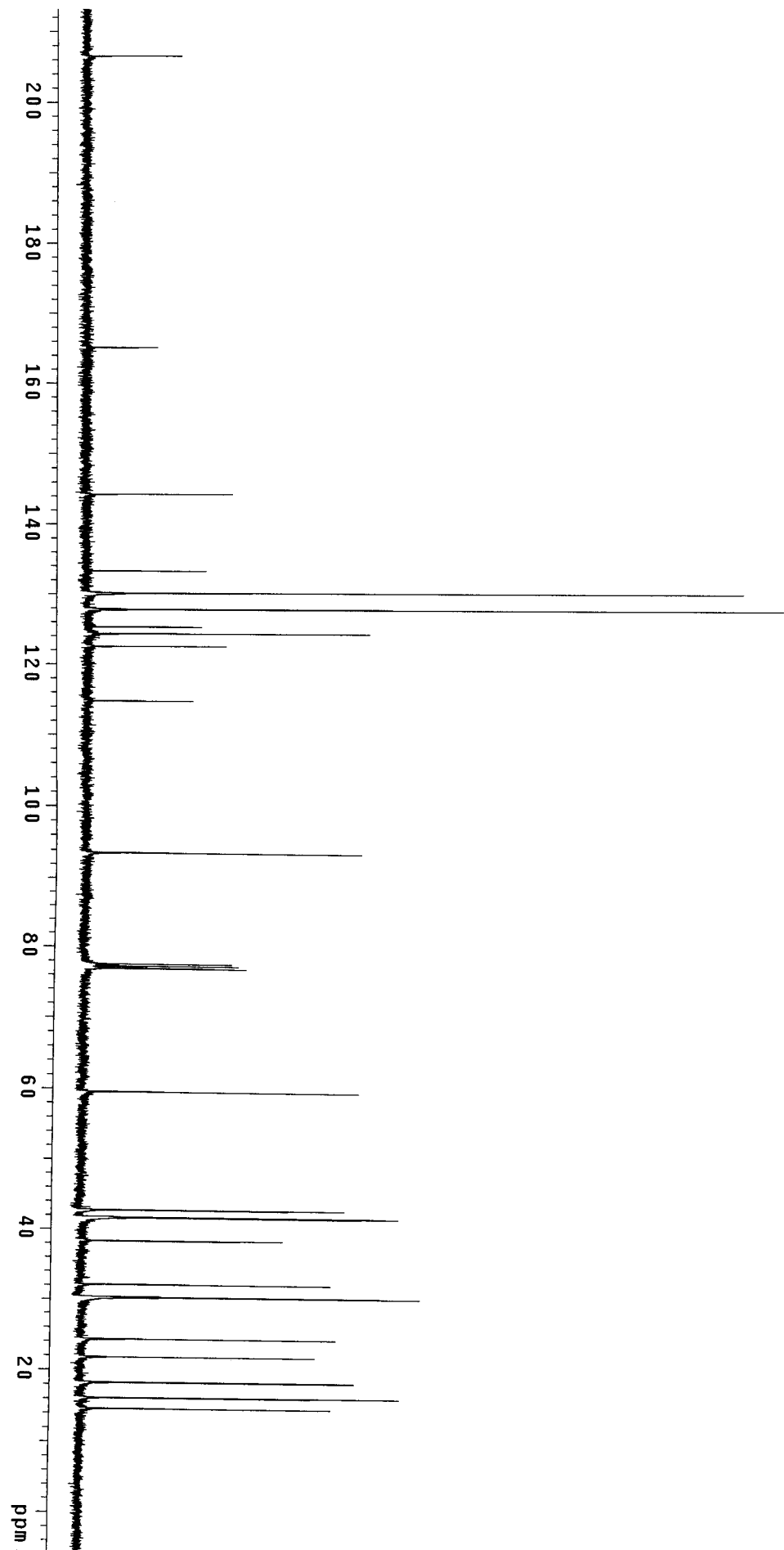


Solvent : Toluene









STANDARD 1H OBSERVE

Pulse Sequence: ghsqc

Solvent: DMSO

Ambient temperature

File: e1150-HSQC-DMSO

Mercury-400BB "ncsnumerc400"

Relax. delay 1.000 sec

Acq. time 0.197 sec

Width 5211.0 Hz

2D Width 12394.5 Hz

64 repetitions

2 x 128 increments

OBSERVE H1, 400.1371014 MHz

DATA PROCESSING

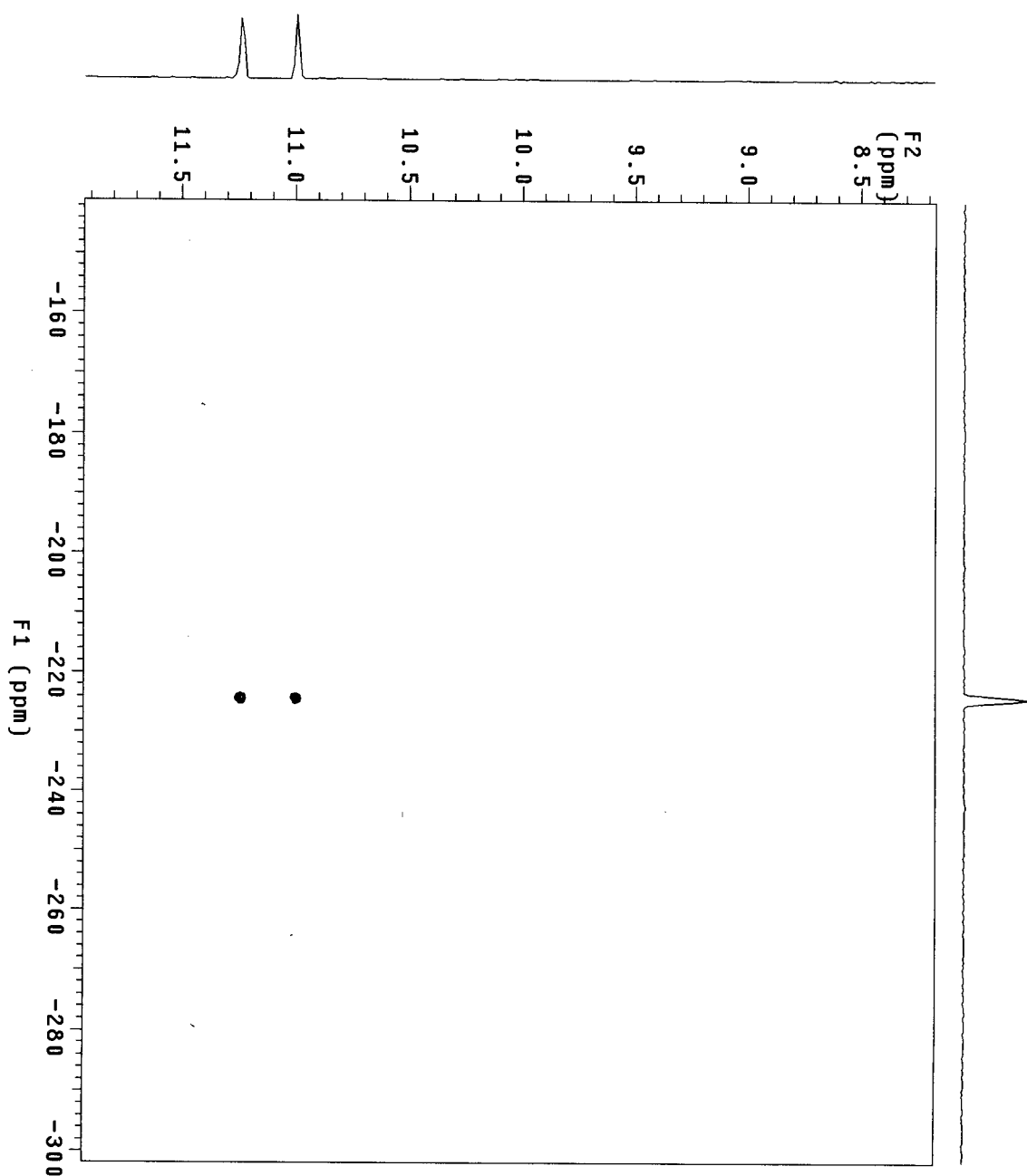
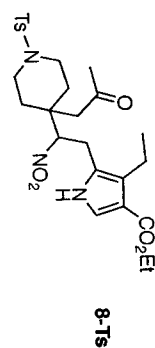
Gauss apodization 0.091 sec

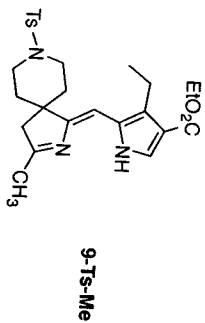
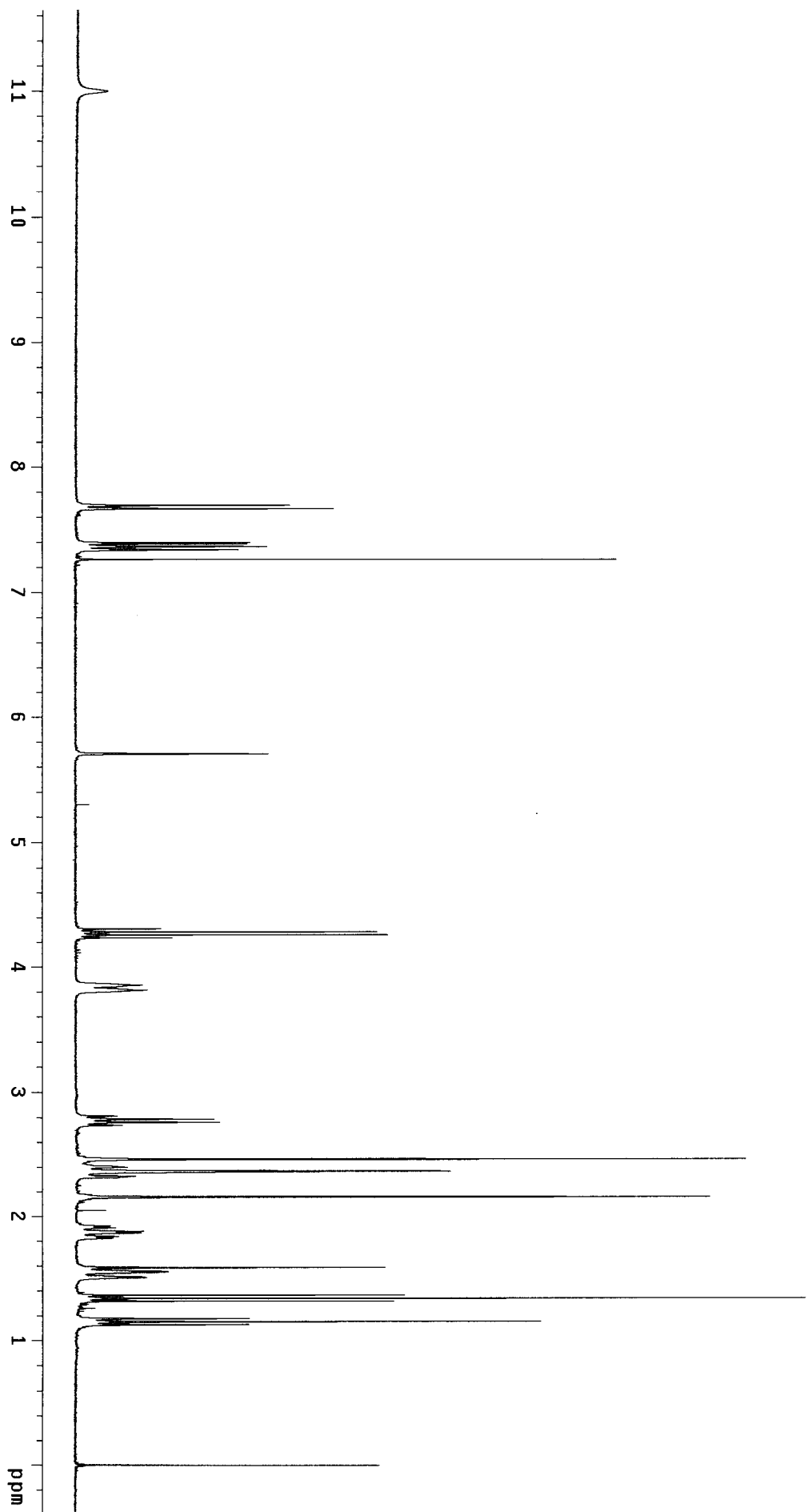
F1 DATA PROCESSING

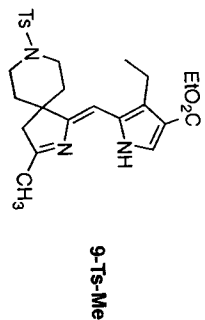
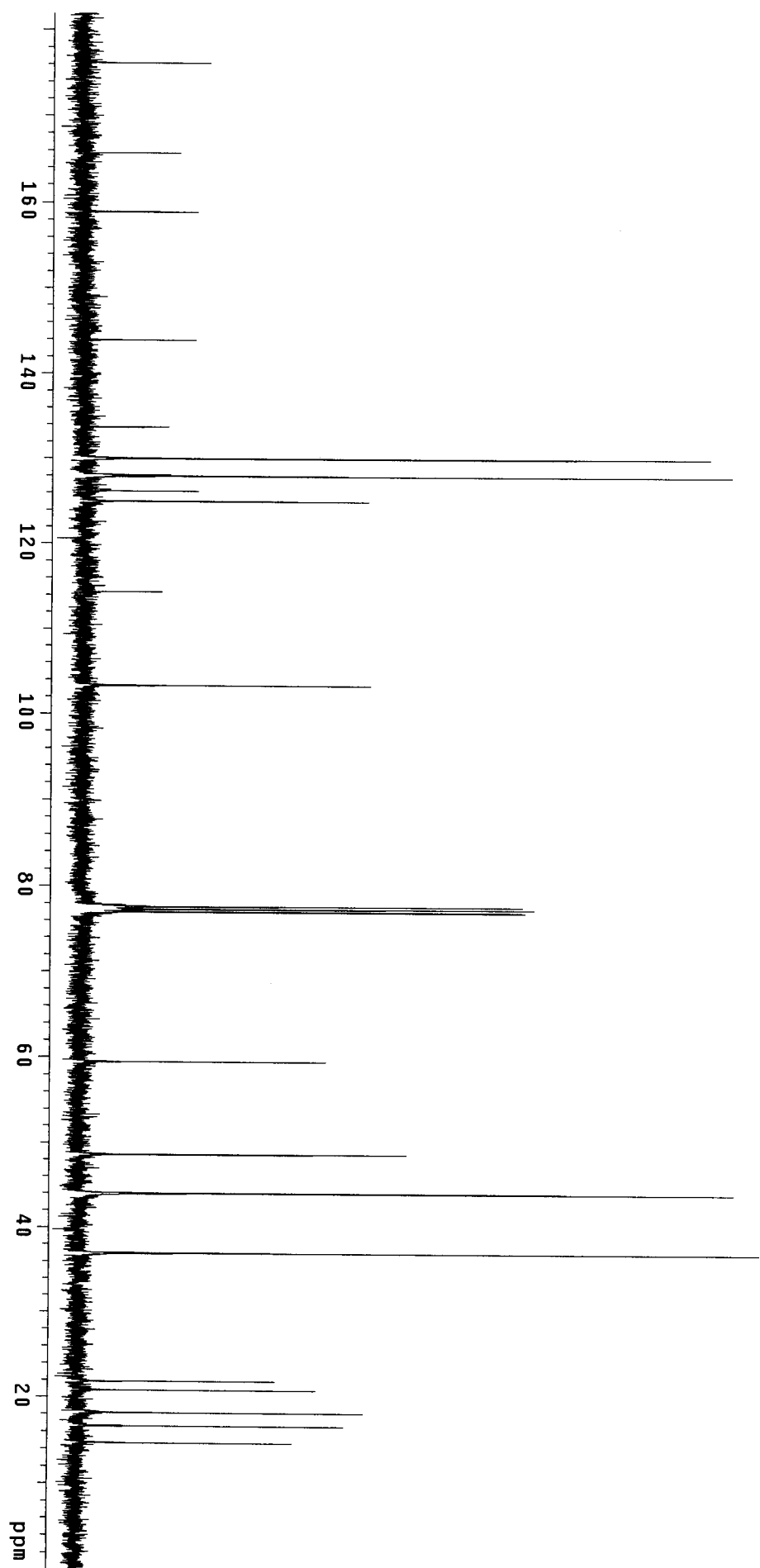
Gauss apodization 0.014 sec

FT Size 2048 x 2048

Total time 6 hr, 1 min, 8 sec





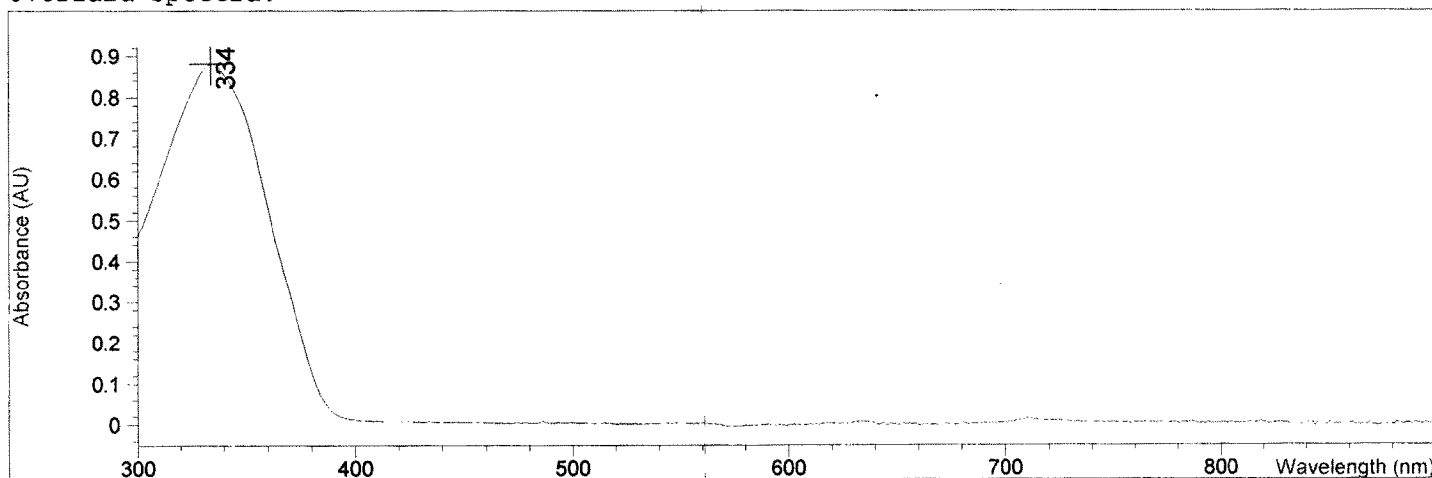


Spectrum/Peak Report

Date 12/16/2012 Time 11:12:16 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : F:\Elisa Lubian\Data\UV-Visible\Spectra Compounds\11-TS-ME
PURE-TOLUENE.SD Created : 5/30/12 9:03:58

Overlaid Spectra:

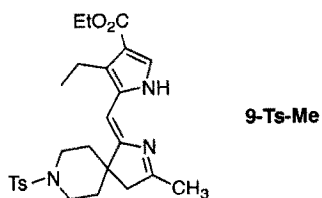


#	Name	Peaks (nm)	Abs (AU)
1		334.0	0.88095

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



Solvent : Toluene

STANDARD 1H OBSERVE

Pulse Sequence: ghsqc

Solvent: DMSO

Ambient temperature

File: e1151-HSQC-DMSO

Mercury-400BB "ncsnumerc400"

Relax. delay 1.000 sec

Acq. time 0.197 sec

Width 5211.0 Hz

2D Width 12594.5 Hz

90 repetitions

2 x 128 increments

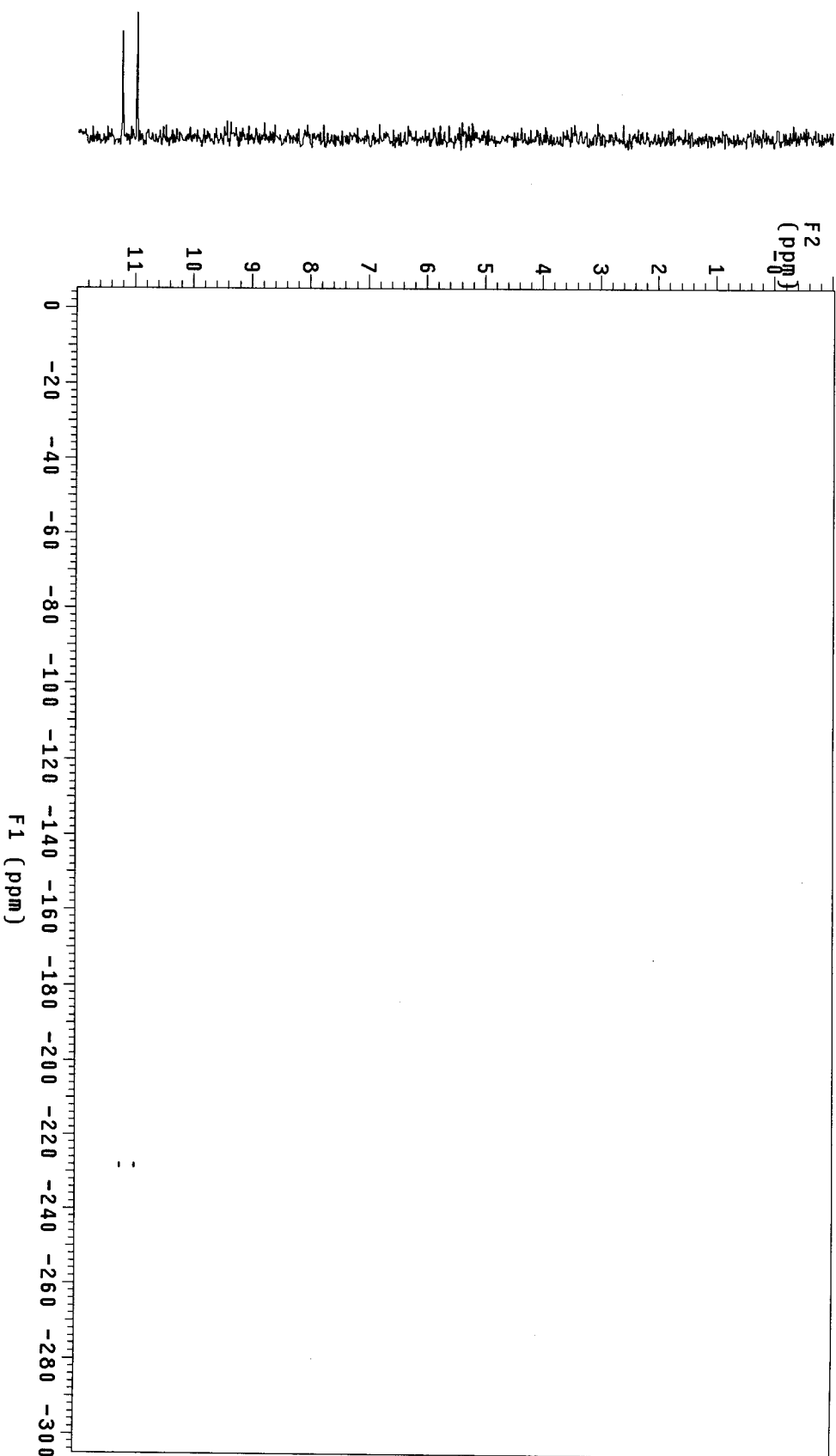
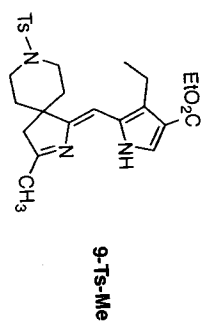
OBSERVE H1, 400.1371014 MHz

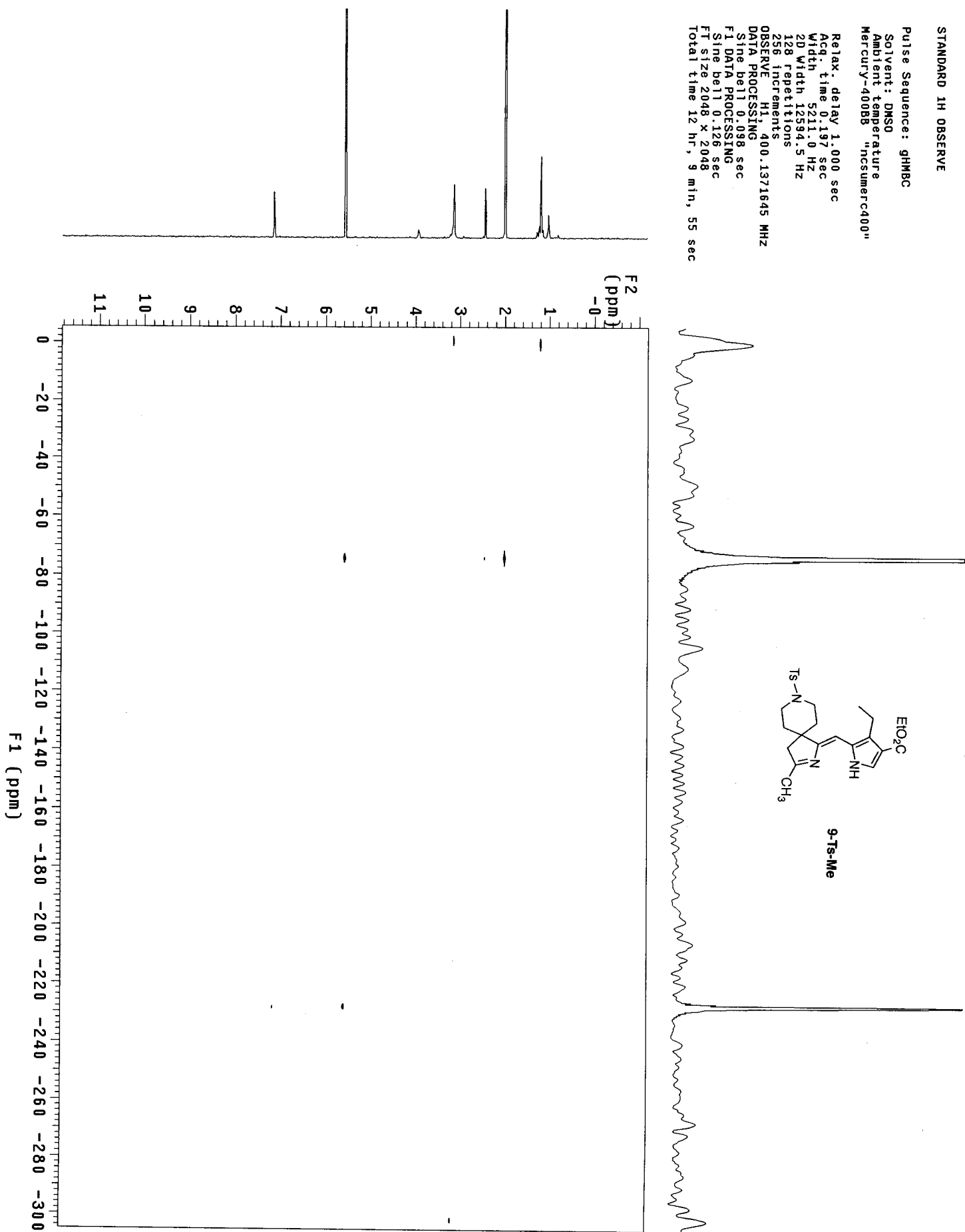
DATA PROCESSING

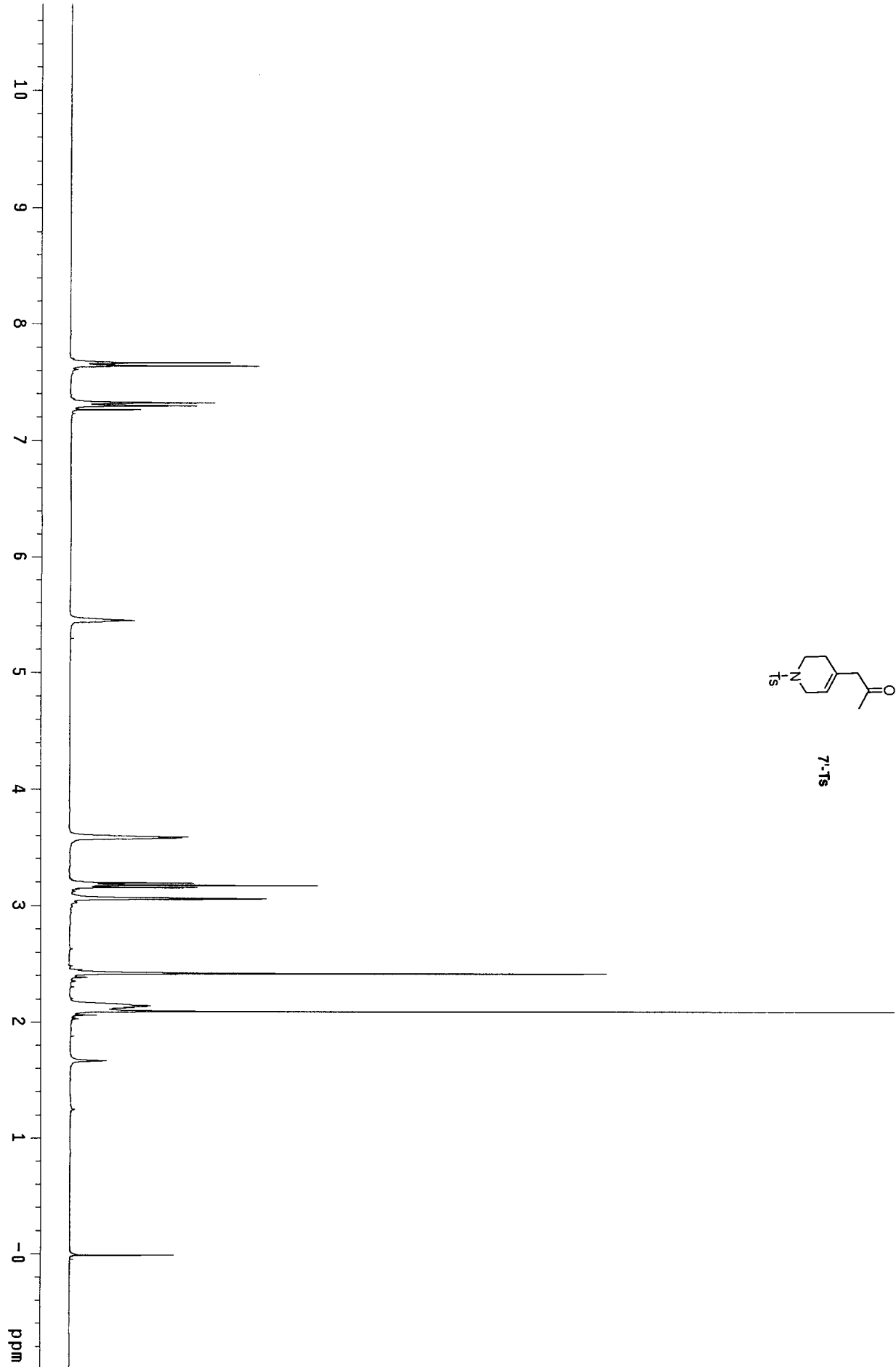
Gauss apodization 0.091 sec

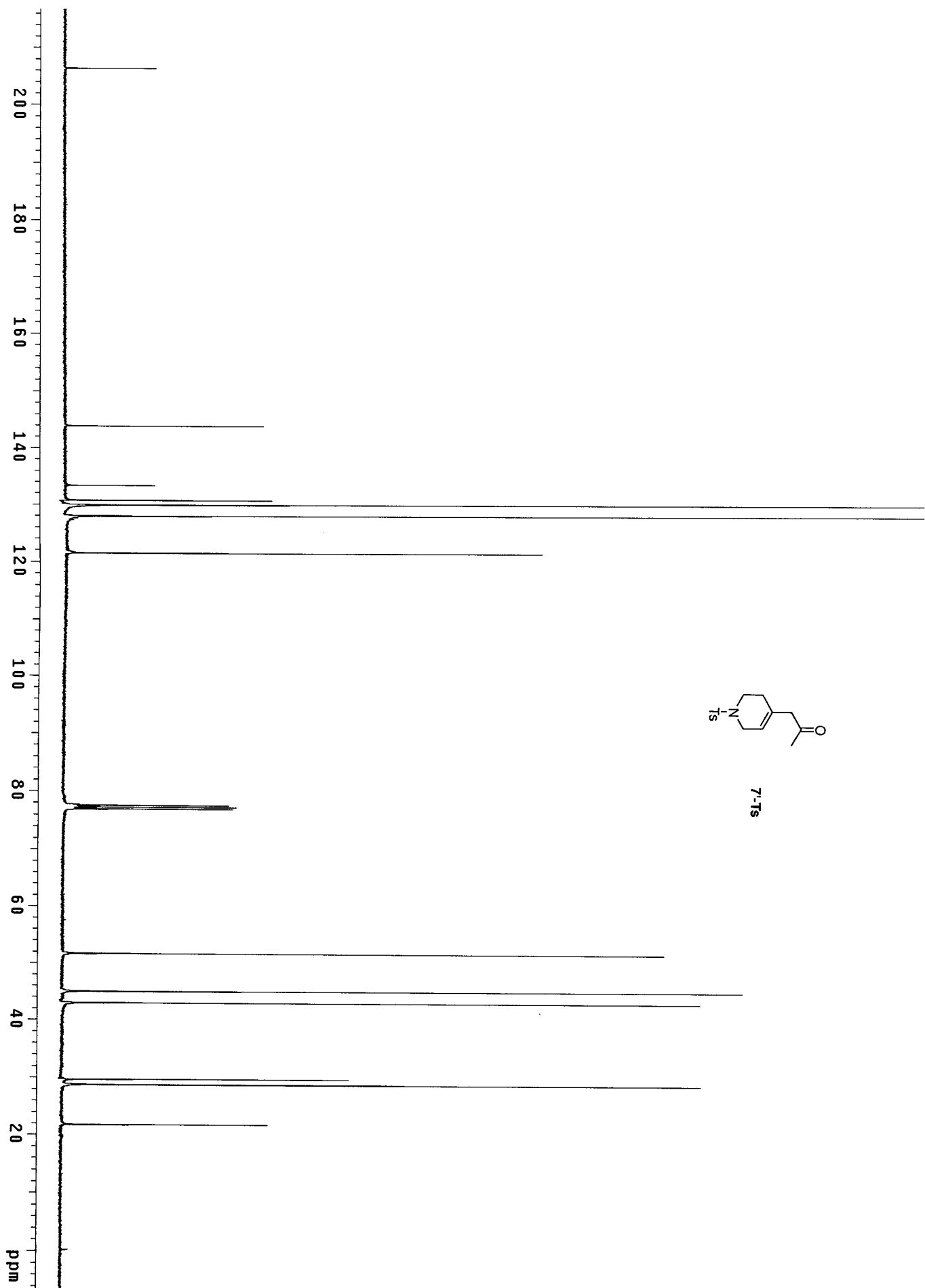
FT size 2048 x 2048

Total time 8 hr, 28 min, 4 sec







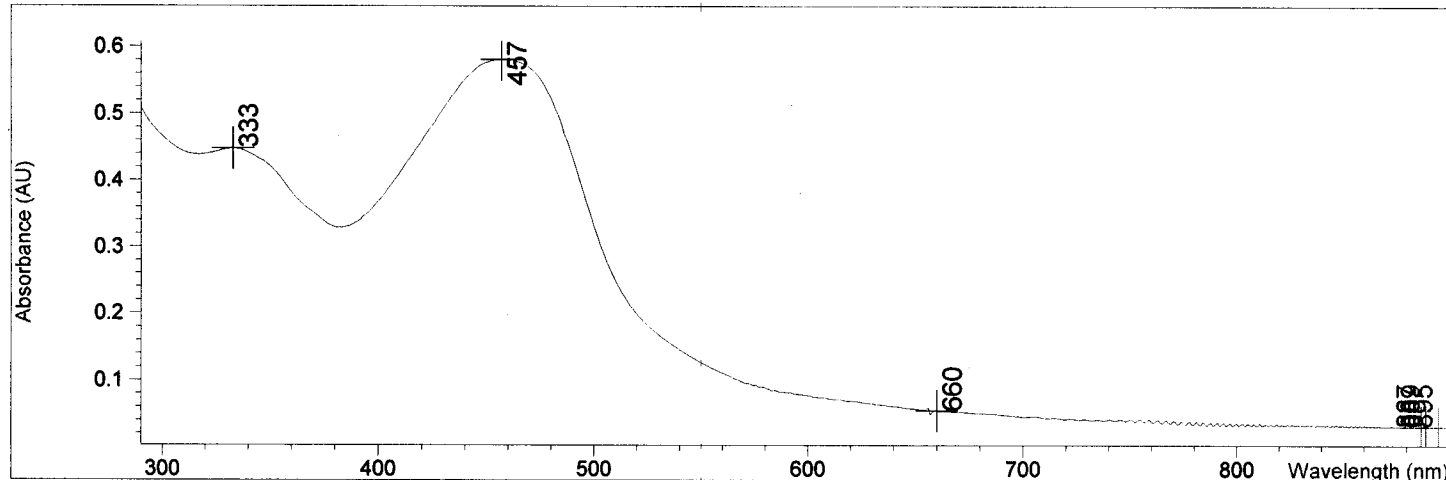


Spectrum/Peak Report

Date 5/30/2012 Time 13:59:40 Page 1 of 1

Method file : <method not saved>
 Information : Default Method
 Data File : <data not saved>

Overlaid Spectra:

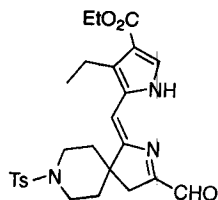


#	Name	Peaks (nm)	Abs (AU)	Valleys (nm)	Abs (AU)
1		457.0	0.58061	895.0	2.9790E-2
1		333.0	0.44775	889.0	2.9799E-2
1		660.0	5.4249E-2	887.0	2.9889E-2

Report generated by : jon

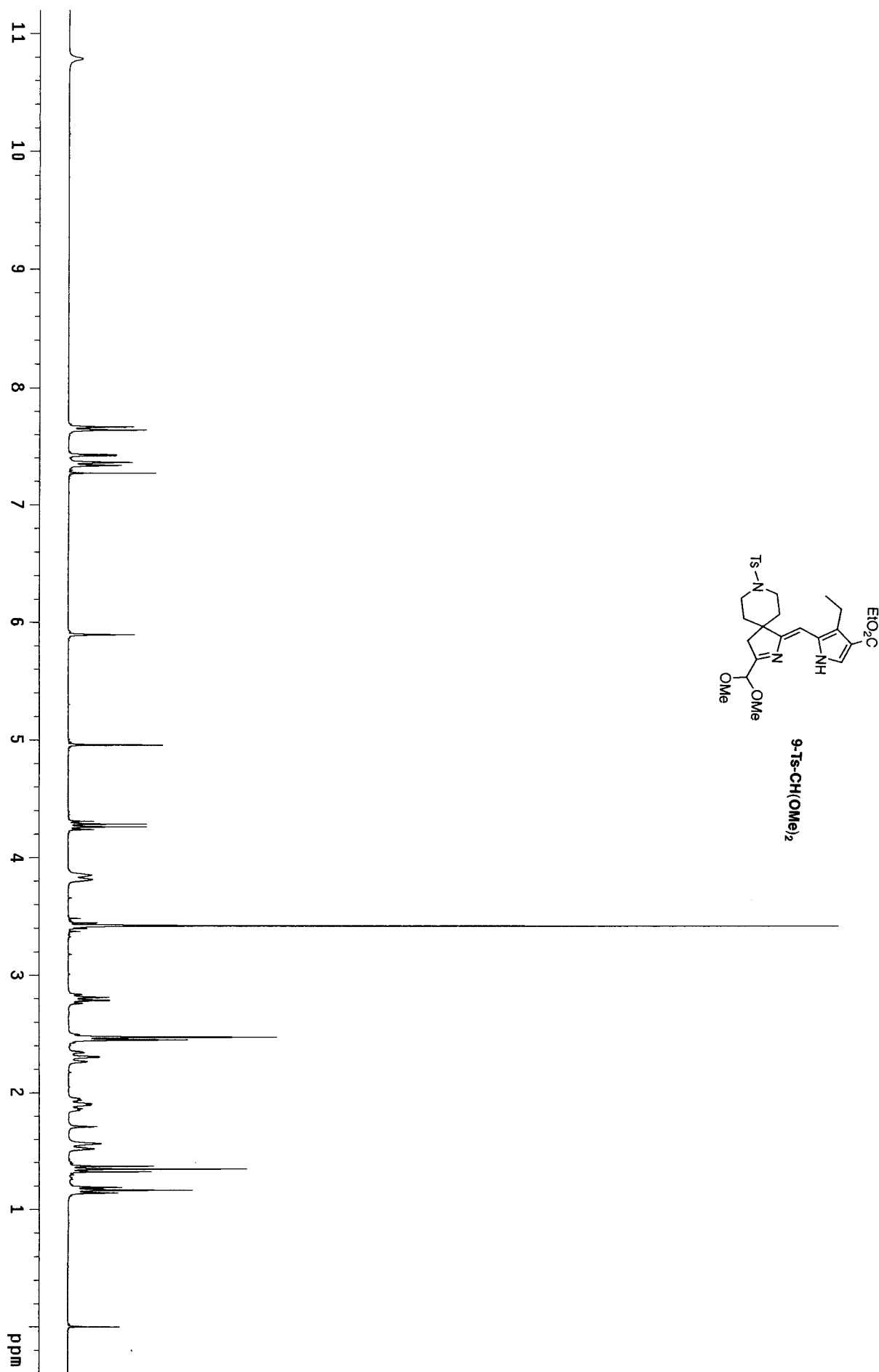
Signature:

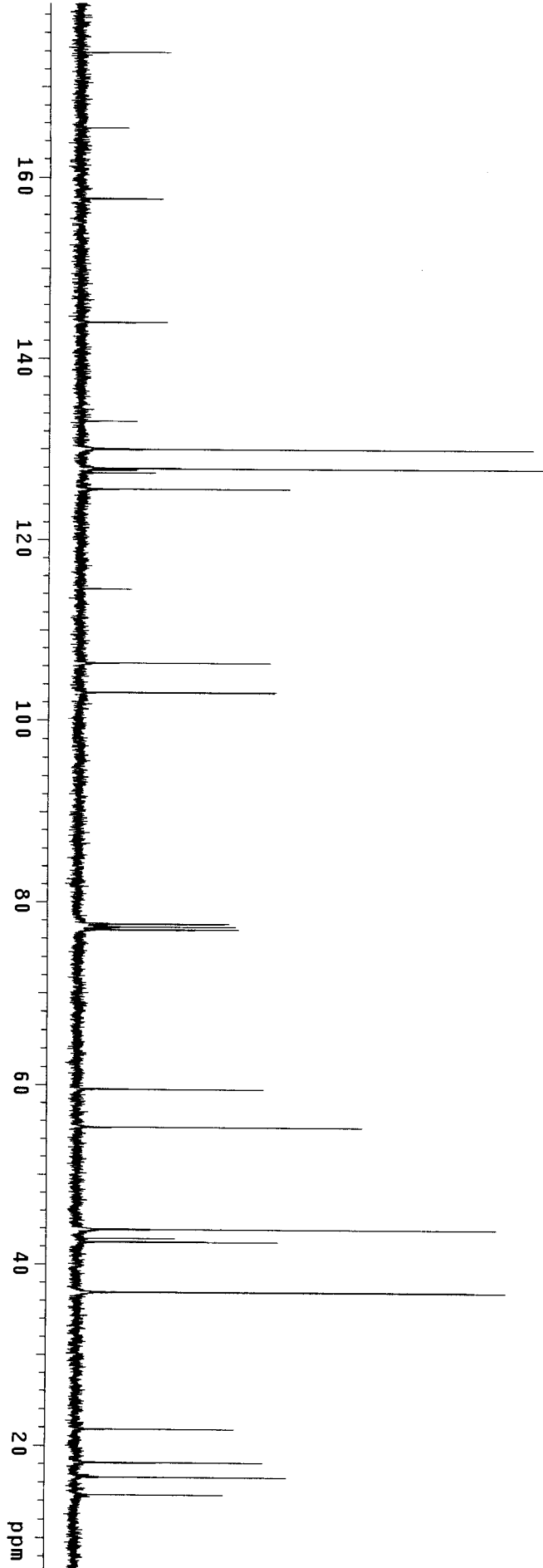
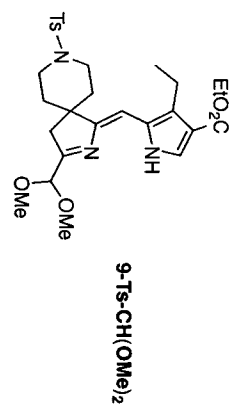
*** End Spectrum/Peak Report ***



9-Ts-CHO

Solvent : Toluene



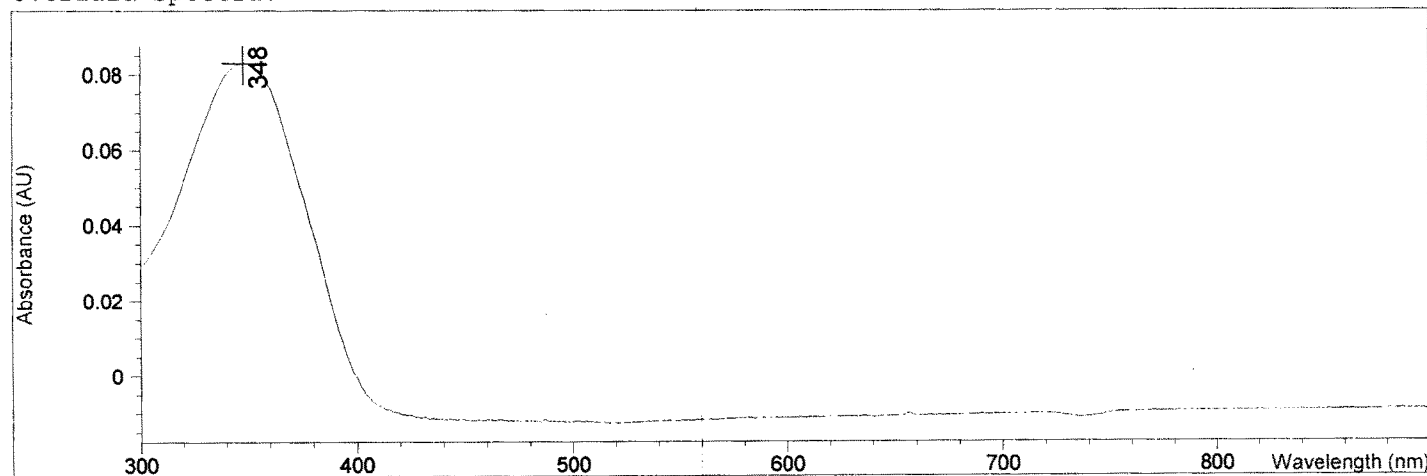


Spectrum/Peak Report

Date 12/16/2012 Time 12:34:10 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\CHEM32\1\DATA\RAMESH\KRR210 11-TS-ME ACETAL (TOLUENE).SD
Created : 12/16/12 12:33:05

Overlaid Spectra:

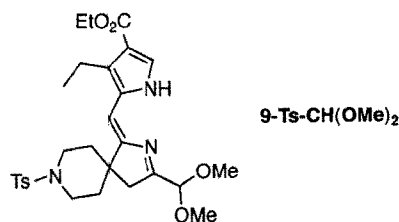


#	Name	Peaks (nm)	Abs (AU)
1		348.0	8.2972E-2

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



Solvent : Toluene

STANDARD 1H OBSERVE

Pulse Sequence: ghsqc

Solvent: DMSO

Ambient temperature

File: e1152-HSQC-DMSO

Mercury-400BB "ncsnumerc400"

Relax. delay 1.000 sec

Acq. time 0.197 sec

Width 5211.0 Hz

2D Width 12594.5 Hz

128 repetitions

2 x 128 increments

OBSERVE H1, 400.1371014 MHz

DATA PROCESSING

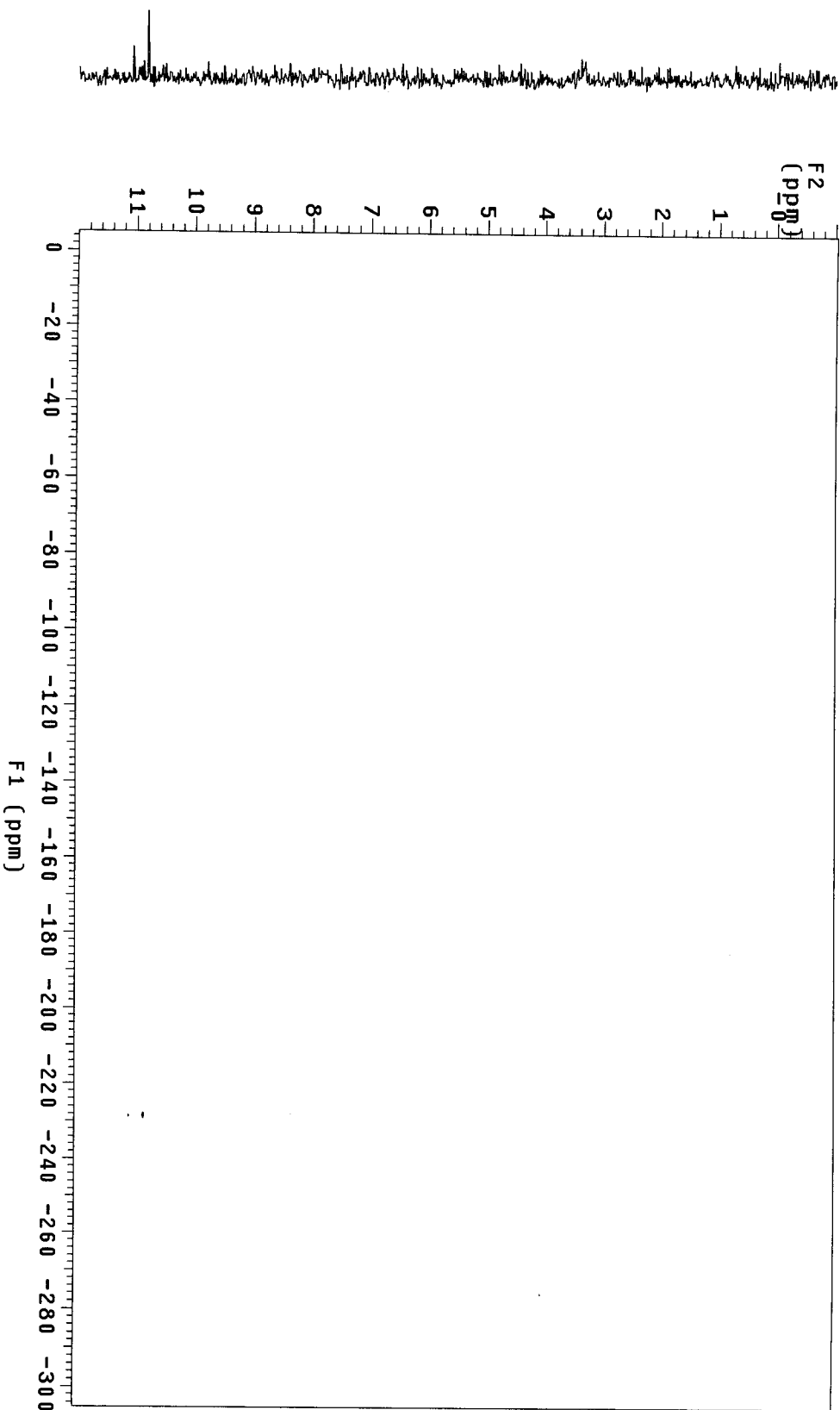
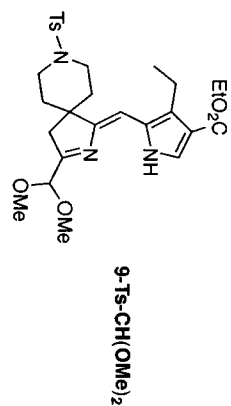
Gauss apodization 0.091 sec

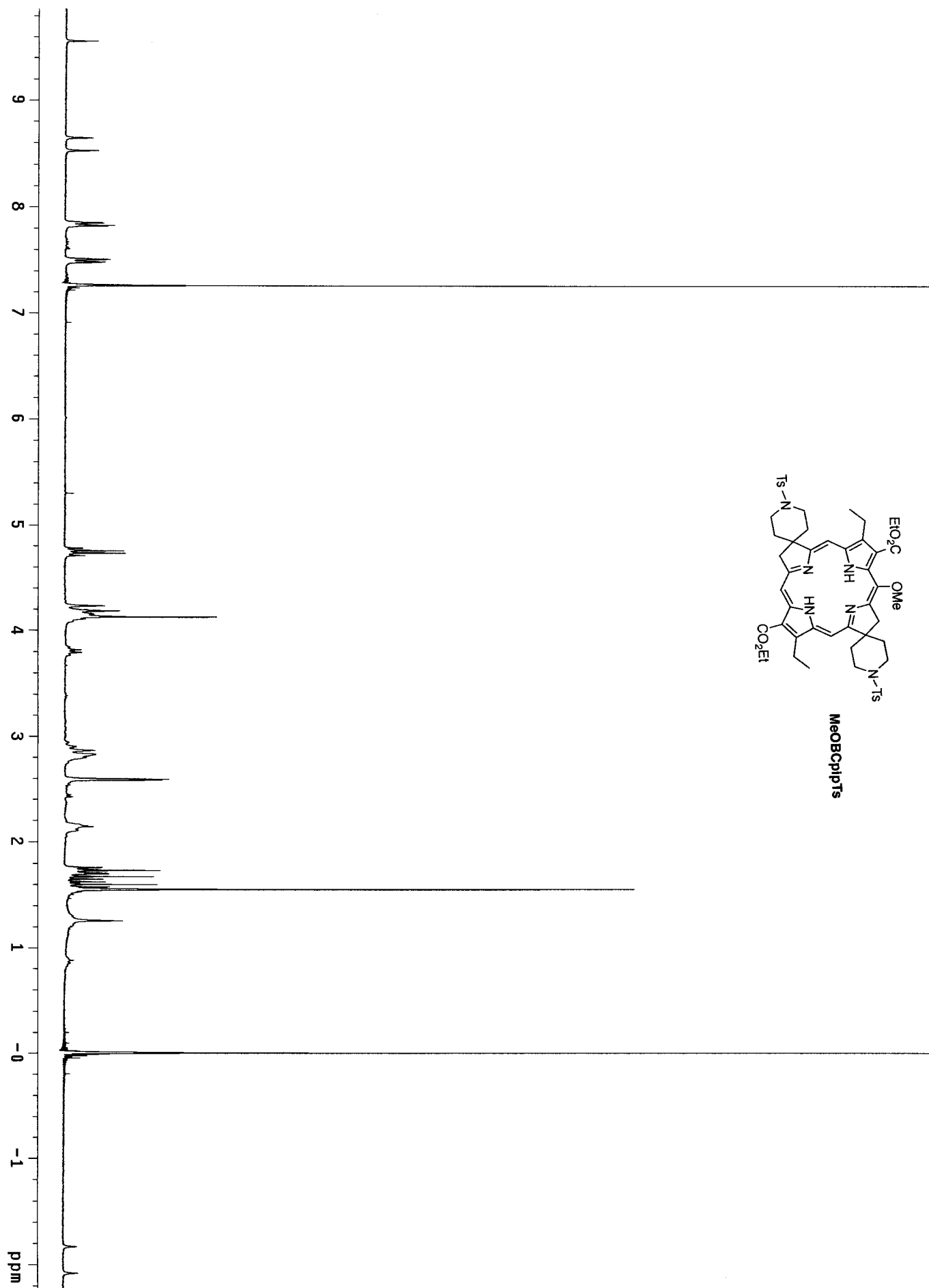
F1 DATA PROCESSING

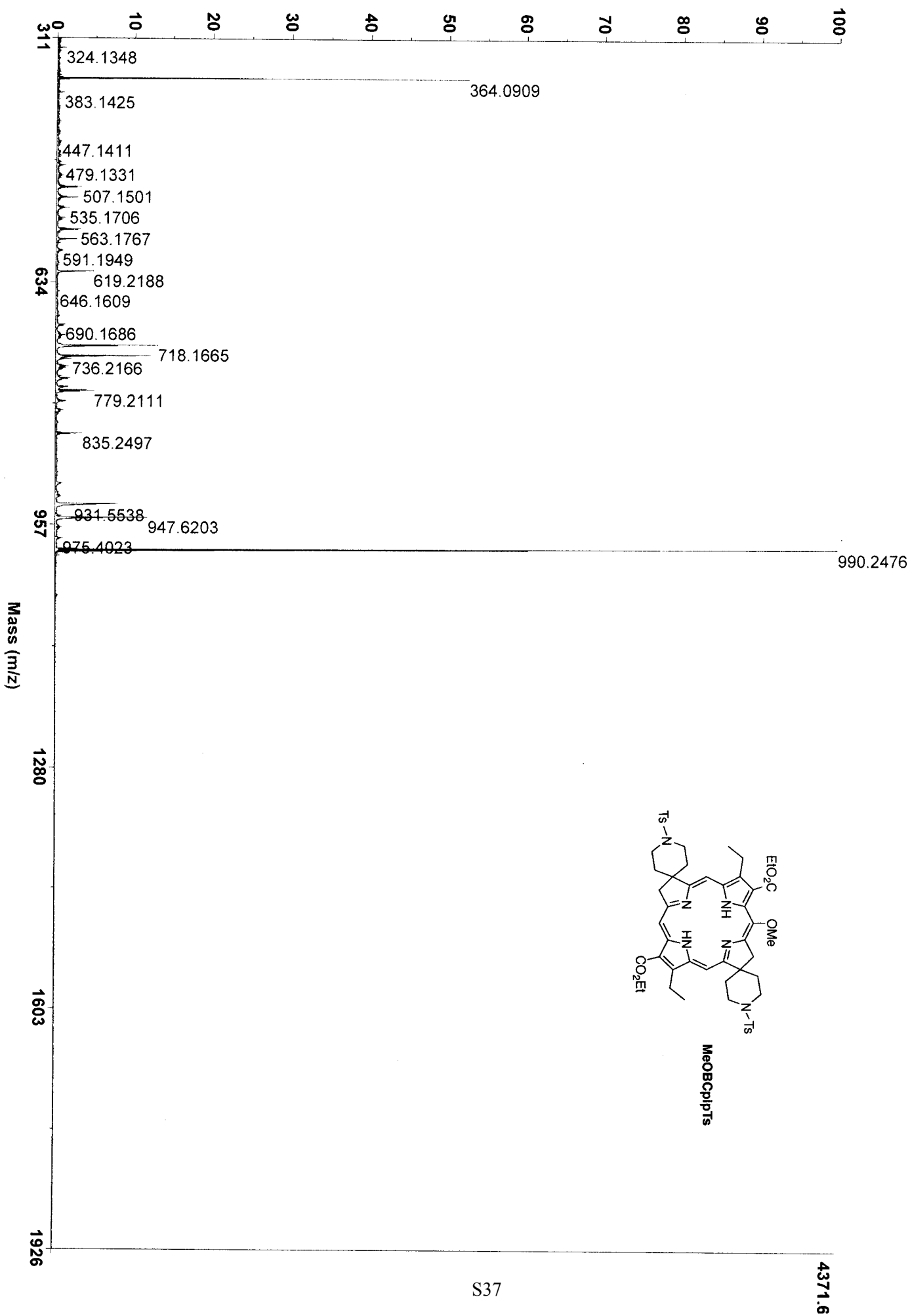
Gauss apodization 0.014 sec

FT size 2048 x 2048

Total time 12 hr, 1 min, 24 sec





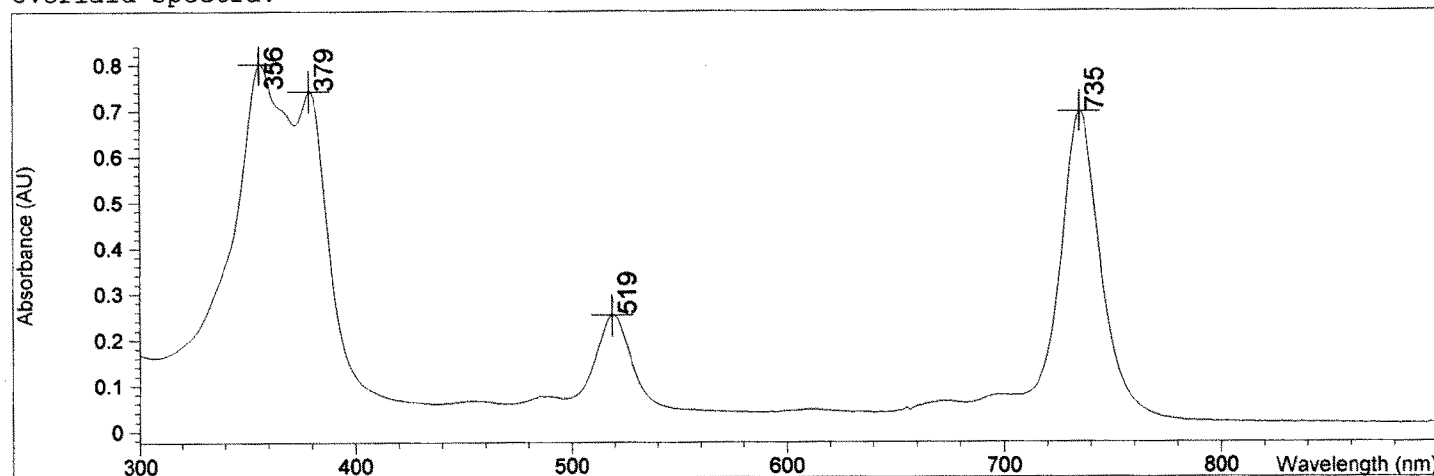


Spectrum/Peak Report

Date 3/10/2012 Time 10:55:17 Page 1 of 1

Method file : LINDSEY.M (modified) Last update: Date 3/10/2012 Time 10:52:45 AM
Information : Default Method
Data File : <untitled>

Overlaid Spectra:

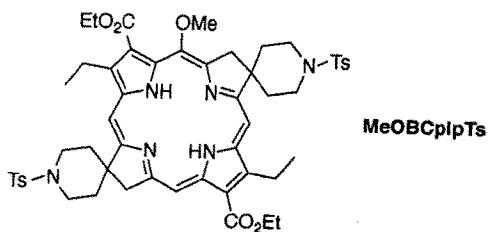


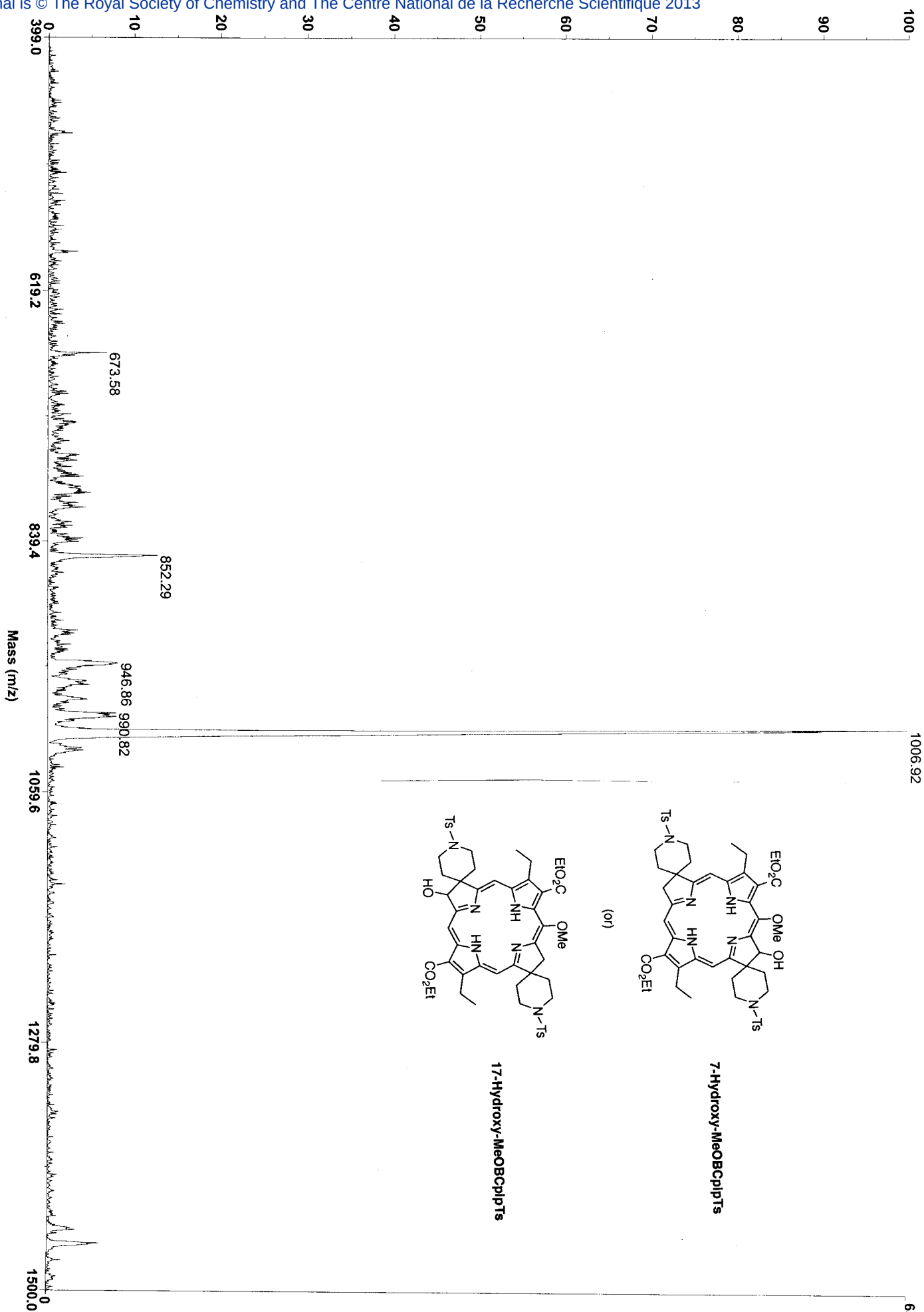
#	Name	Peaks (nm)	Abs (AU)
1		356.0	0.80170
1		379.0	0.74194
1		735.0	0.69536
1		519.0	0.25287

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



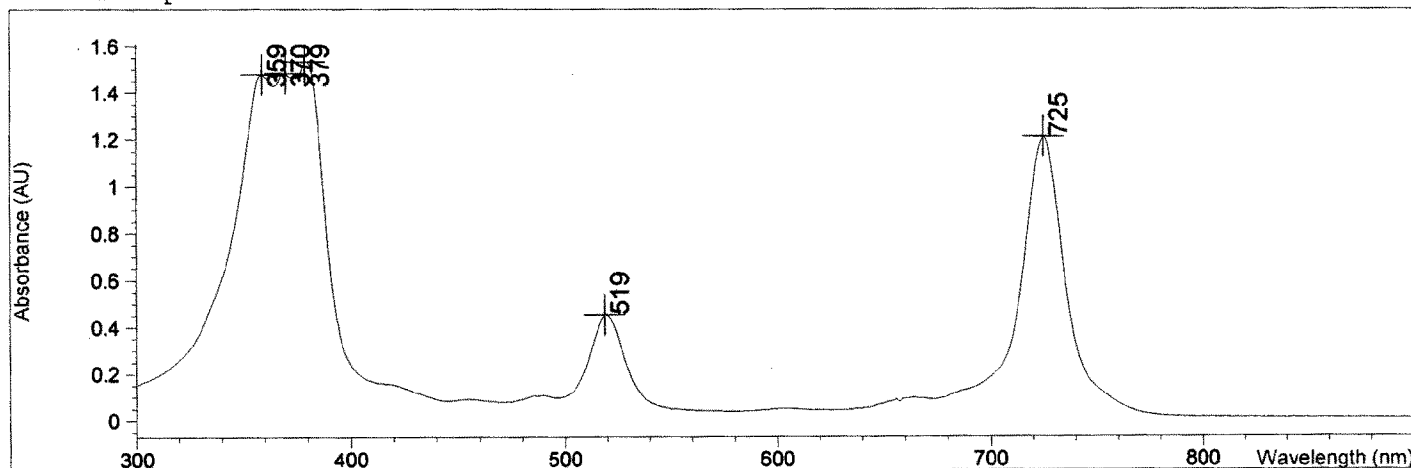


Spectrum/Peak Report

Date 3/12/2012 Time 11:13:08 Page 1 of 1

Method file : LINDSEY.M (modified) Last update: Date 3/12/2012 Time 11:10:32 AM
Information : Default Method
Data File : <untitled>

Overlaid Spectra:

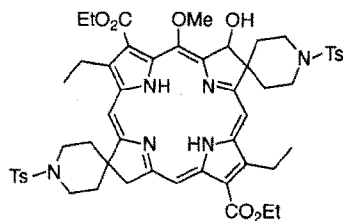


#	Name	Peaks (nm)	Abs (AU)
1		379.0	1.53440
1		370.0	1.48380
1		359.0	1.47870
1		725.0	1.21240
1		519.0	0.45254

Report generated by : Lindsey Lab

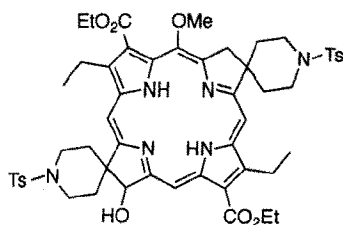
Signature:

*** End Spectrum/Peak Report ***

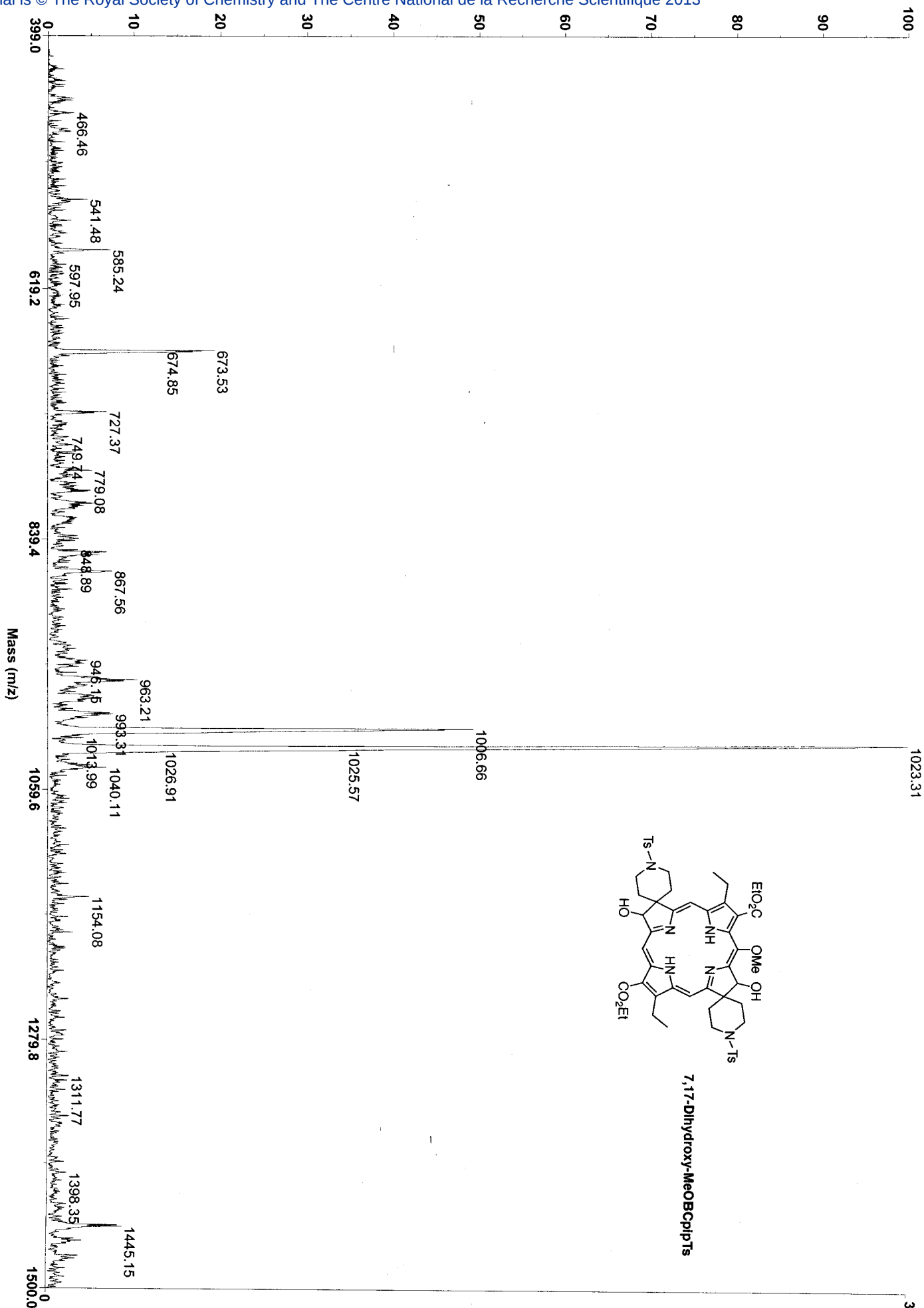
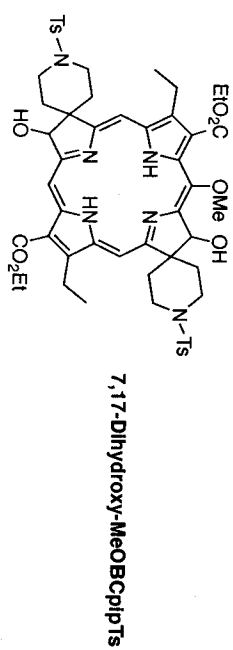


7-Hydroxy-MeOBCpIpTs

(or)



17-Hydroxy-MeOBCpIpTs

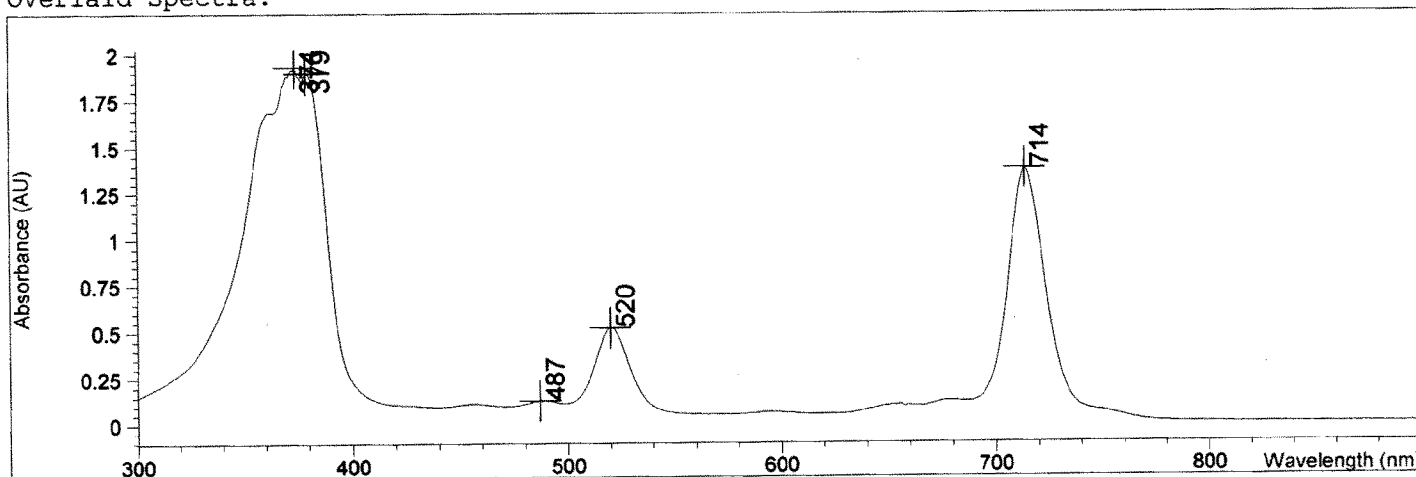


Spectrum/Peak Report

Date 3/12/2012 Time 11:12:41 Page 1 of 1

Method file : LINDSEY.M (modified) Last update: Date 3/12/2012 Time 11:10:32 AM
Information : Default Method
Data File : <untitled>

Overlaid Spectra:

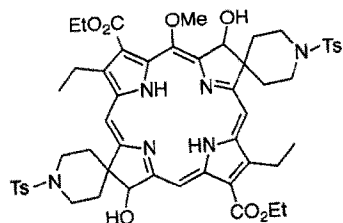


#	Name	Peaks (nm)	Abs (AU)
1		374.0	1.93260
1		379.0	1.89910
1		714.0	1.37900
1		520.0	0.51990
1		487.0	0.12792

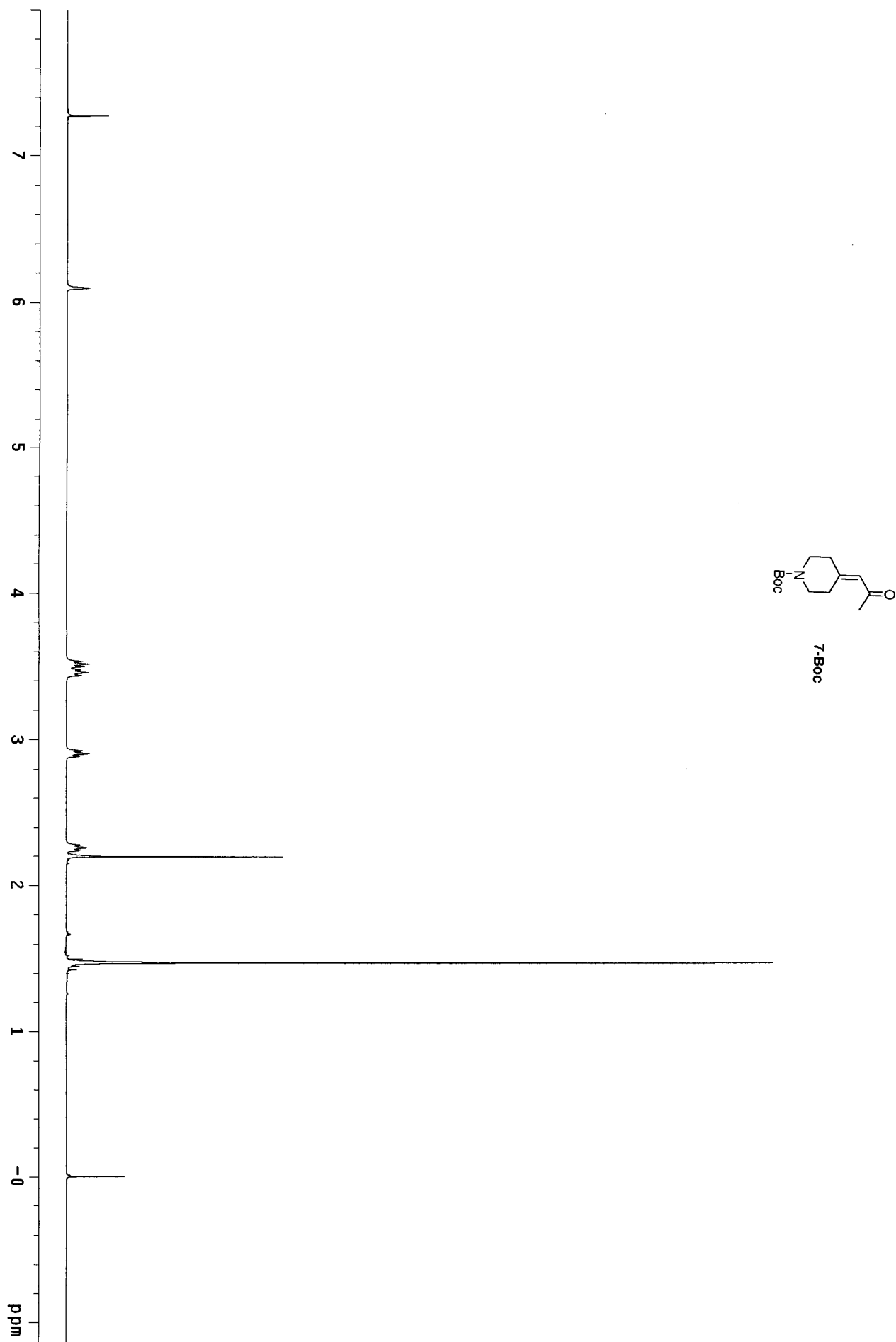
Report generated by : Lindsey Lab

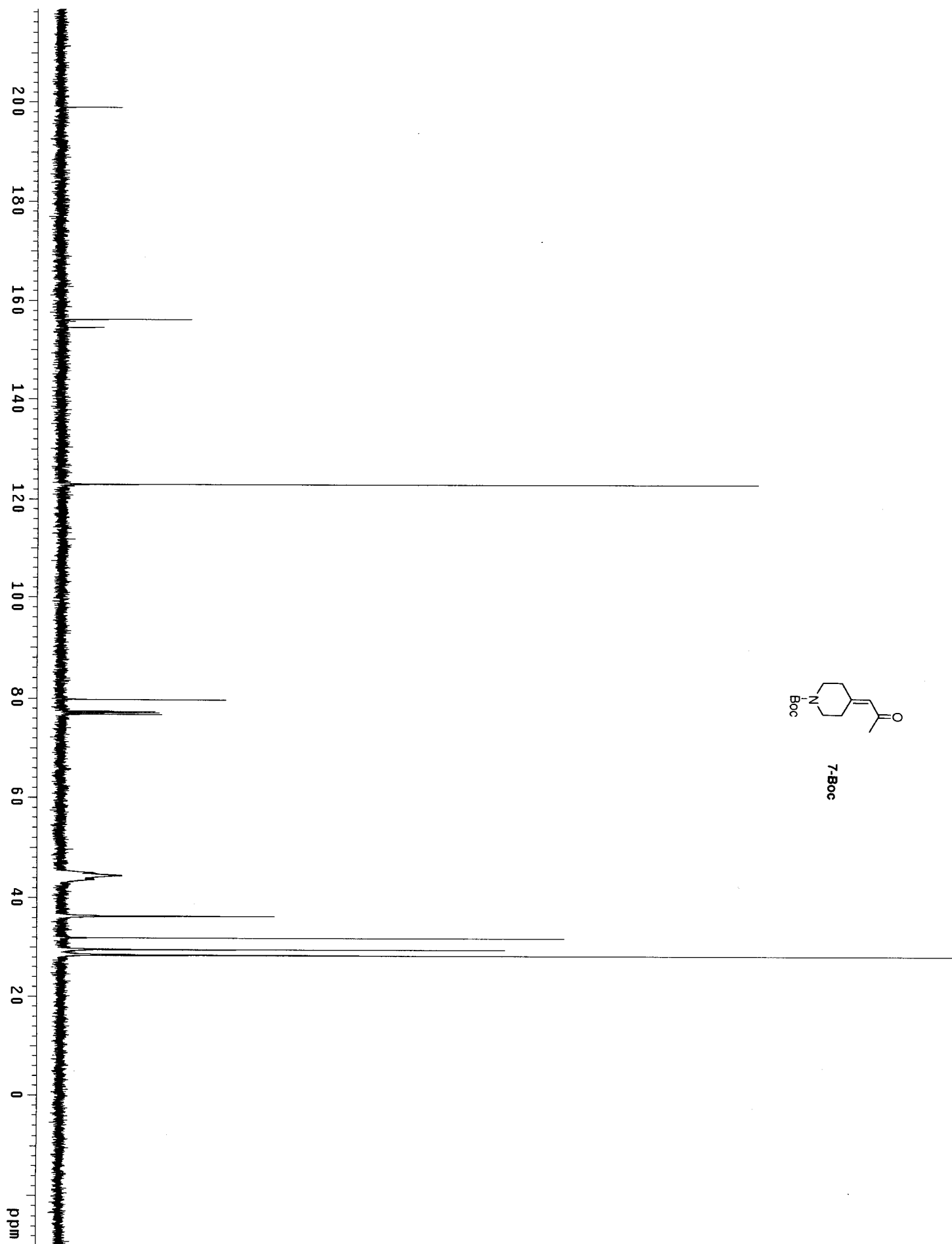
Signature:

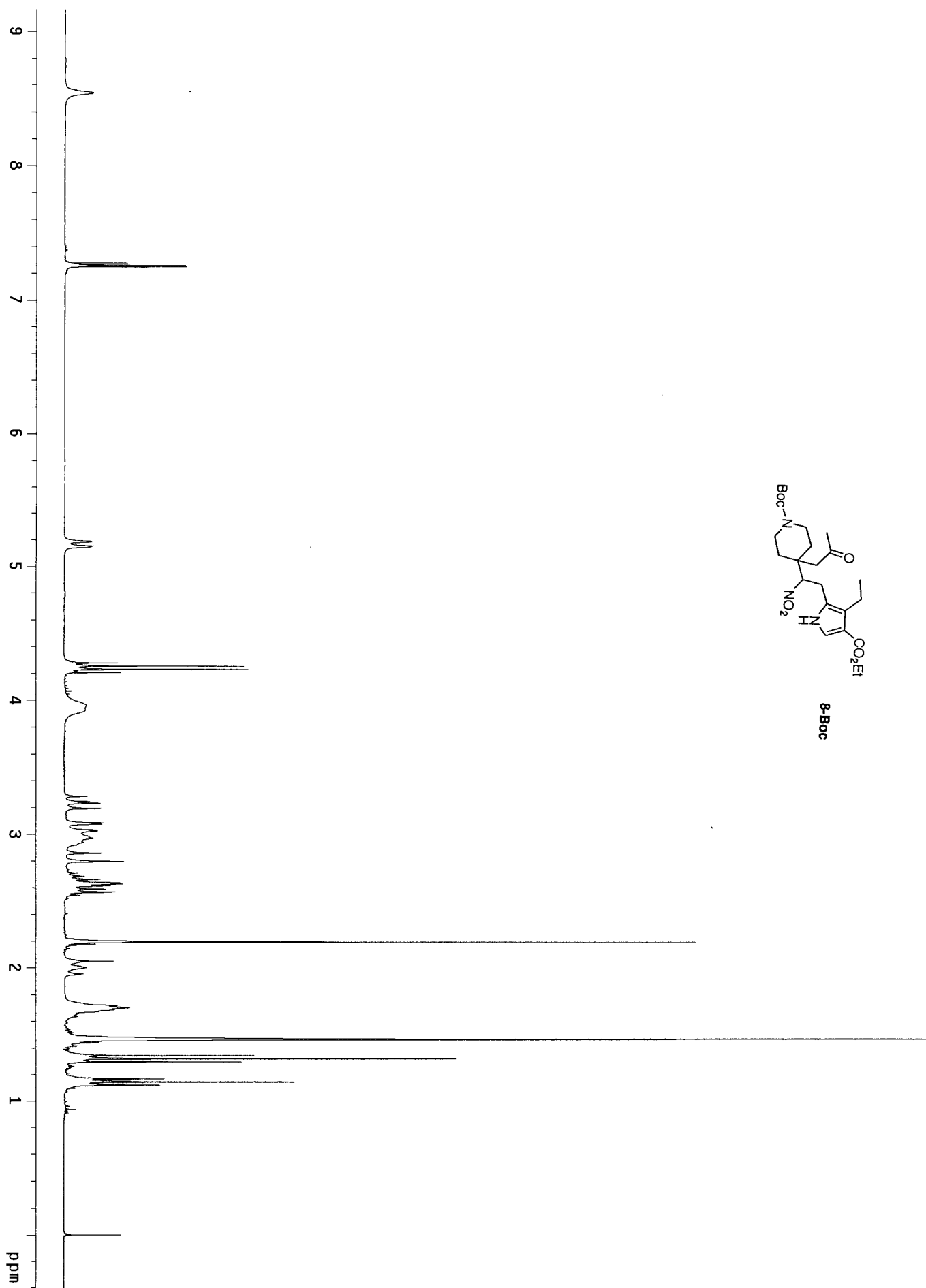
*** End Spectrum/Peak Report ***

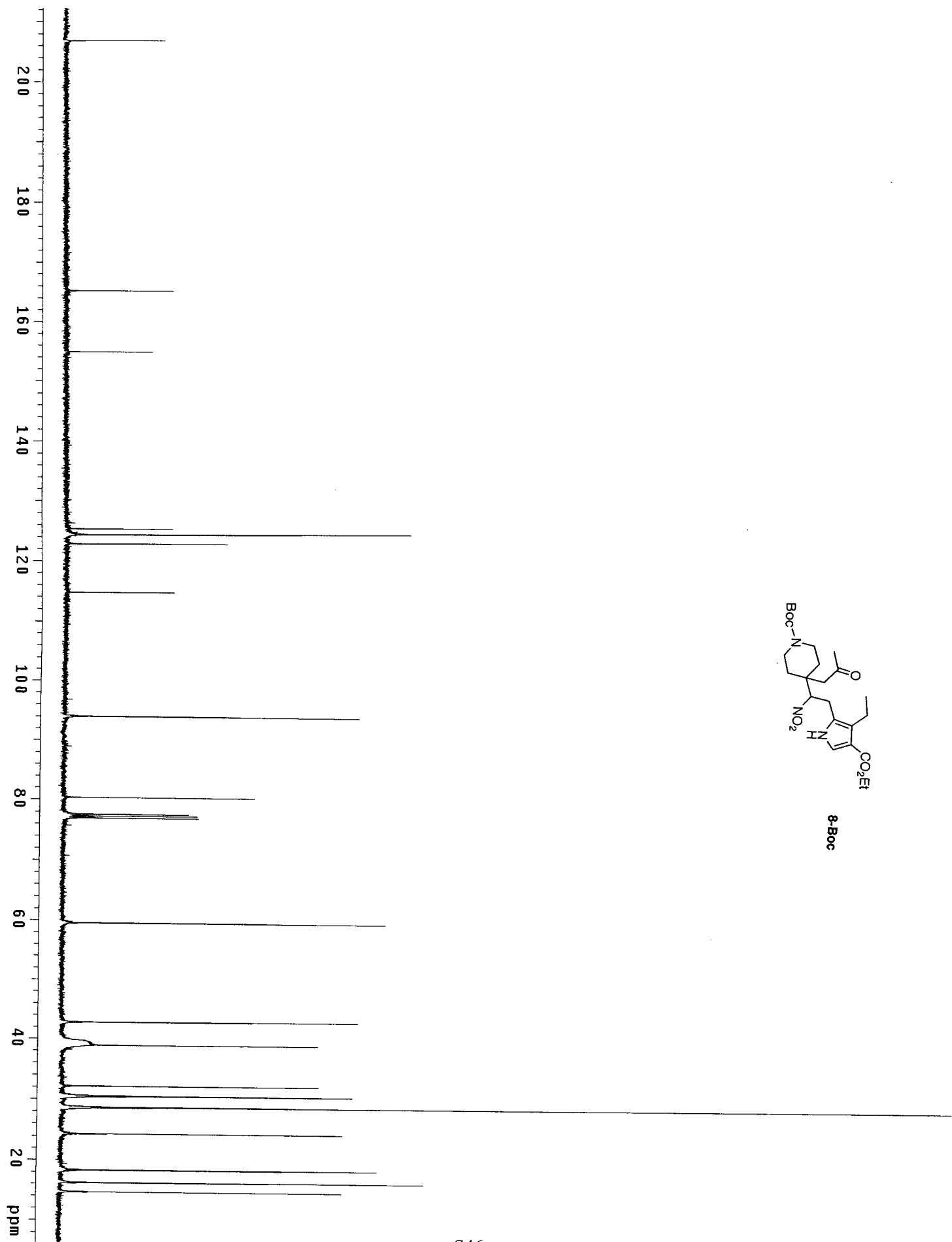


7,17-Dihydroxy-MeOBCpIpTs









STANDARD 1H OBSERVE

Pulse Sequence: ghsqc

Solvent: DMSO

Ambient temperature

File: KTR218-DMSO-HSQC

Mercury-400BB "ncsnumerc400"

Relax. delay 1.000 sec

Acq. time 0.197 sec

Width 5211.0 Hz

2D Width 12594.5 Hz

32 repetitions

2 x 128 increments

OBSERVE H1, 400.1371014 MHz

DATA PROCESSING

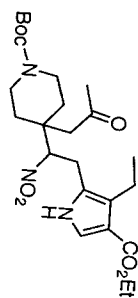
Gauss apodization 0.091 sec

F1 DATA PROCESSING

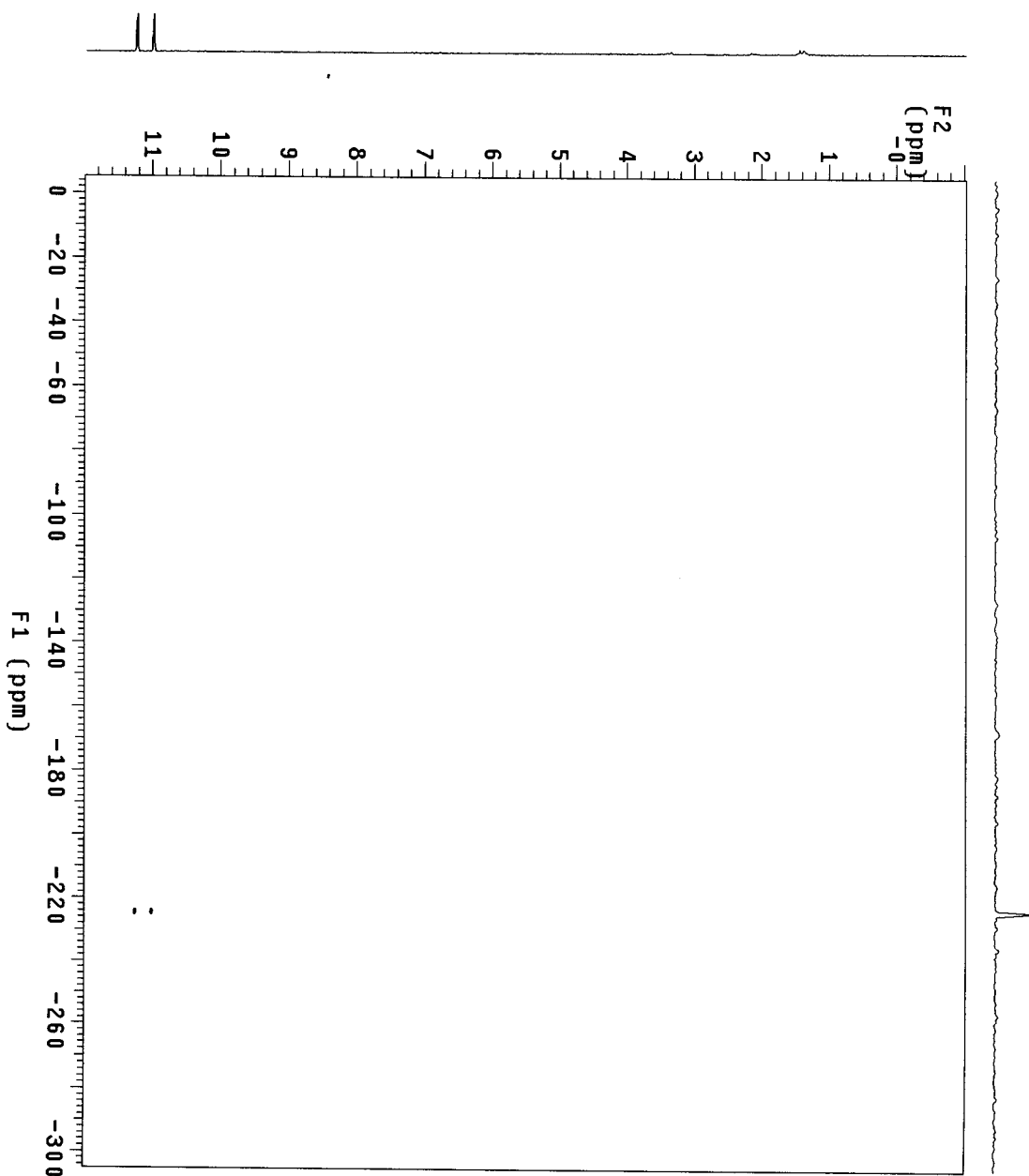
Gauss apodization 0.014 sec

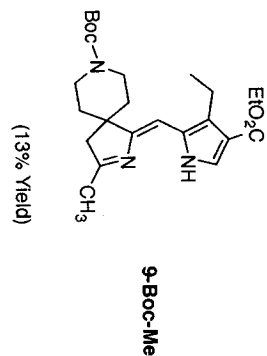
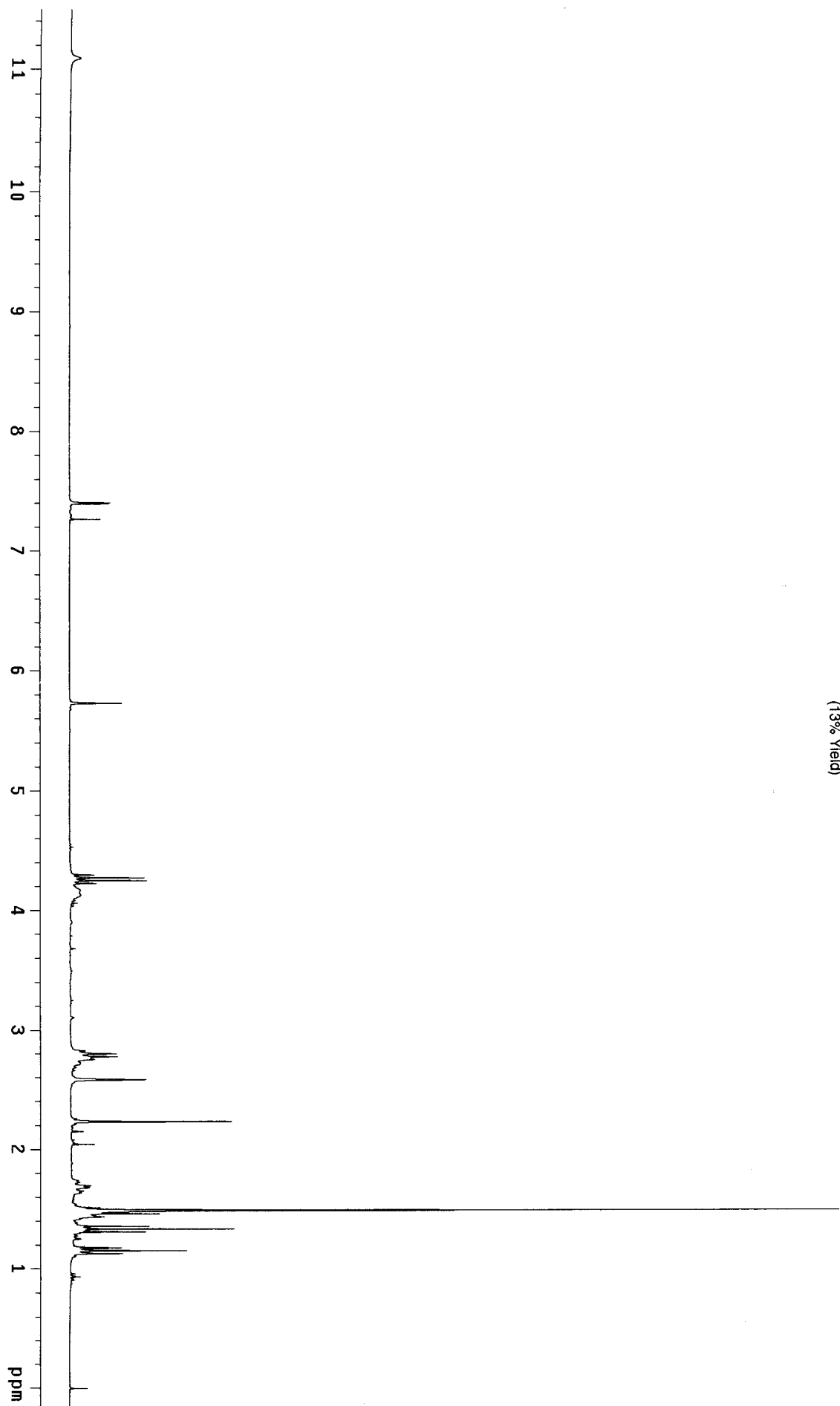
FT size 2048 x 2048

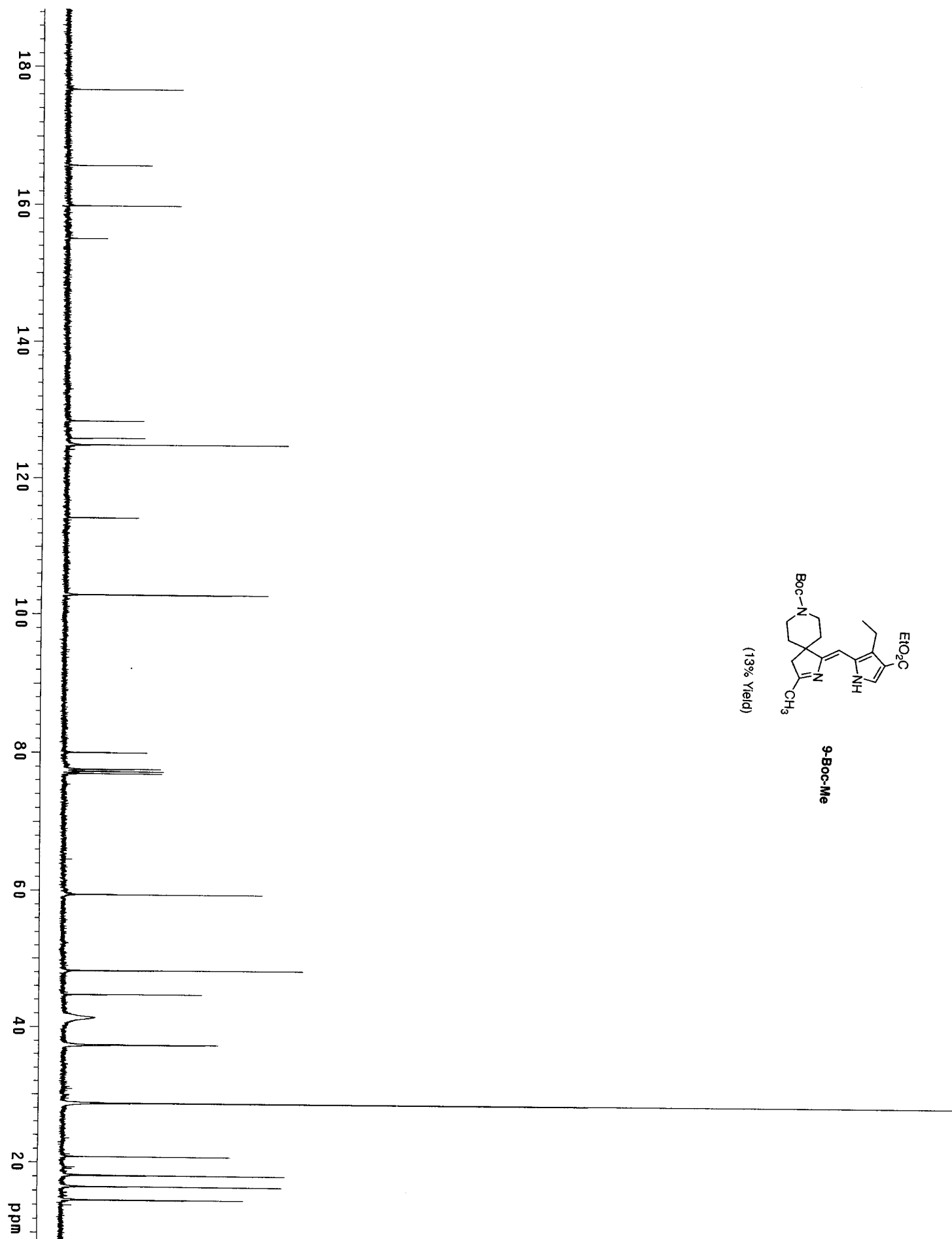
Total time 3 hr, 1 min, 0 sec

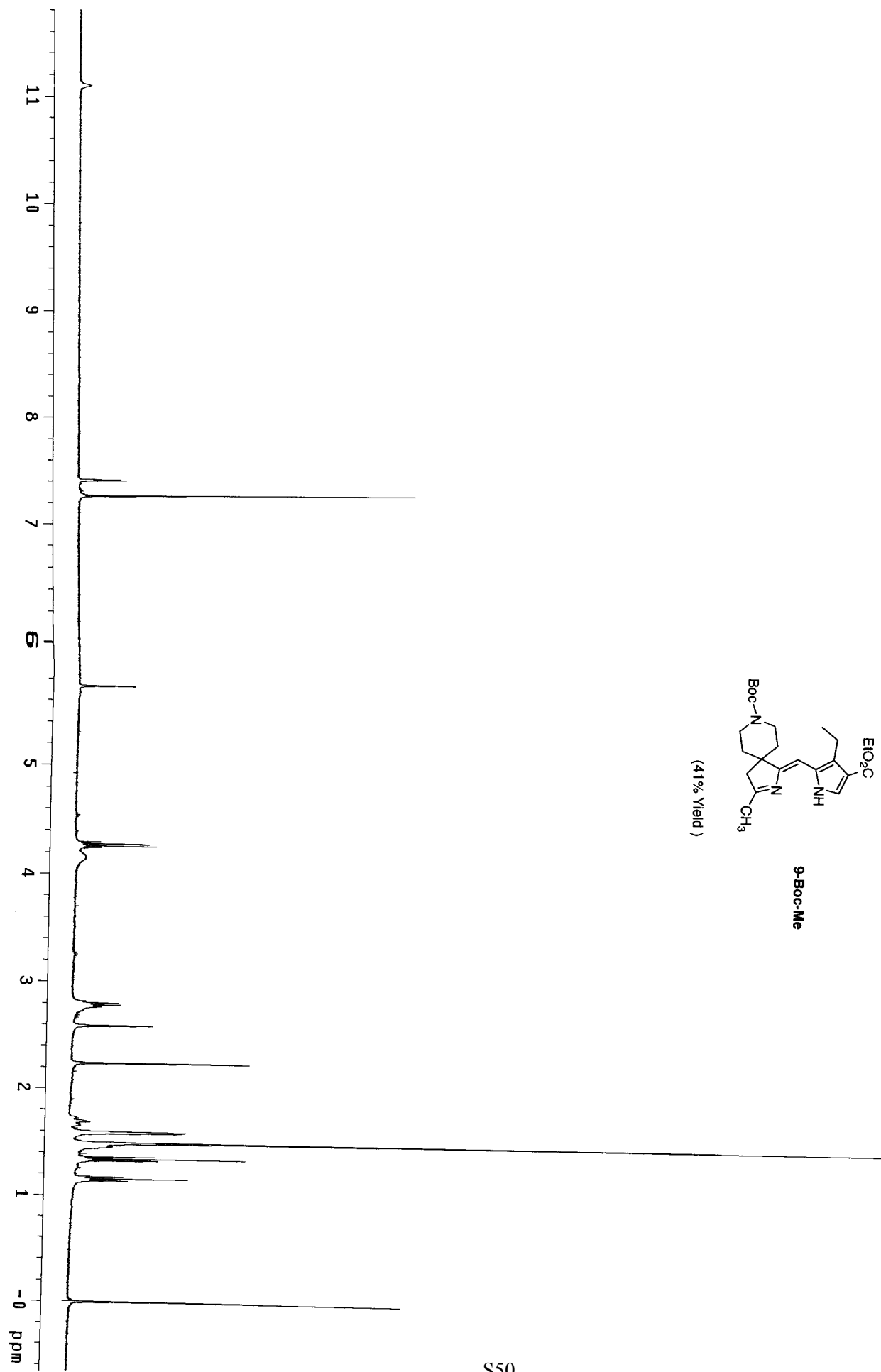


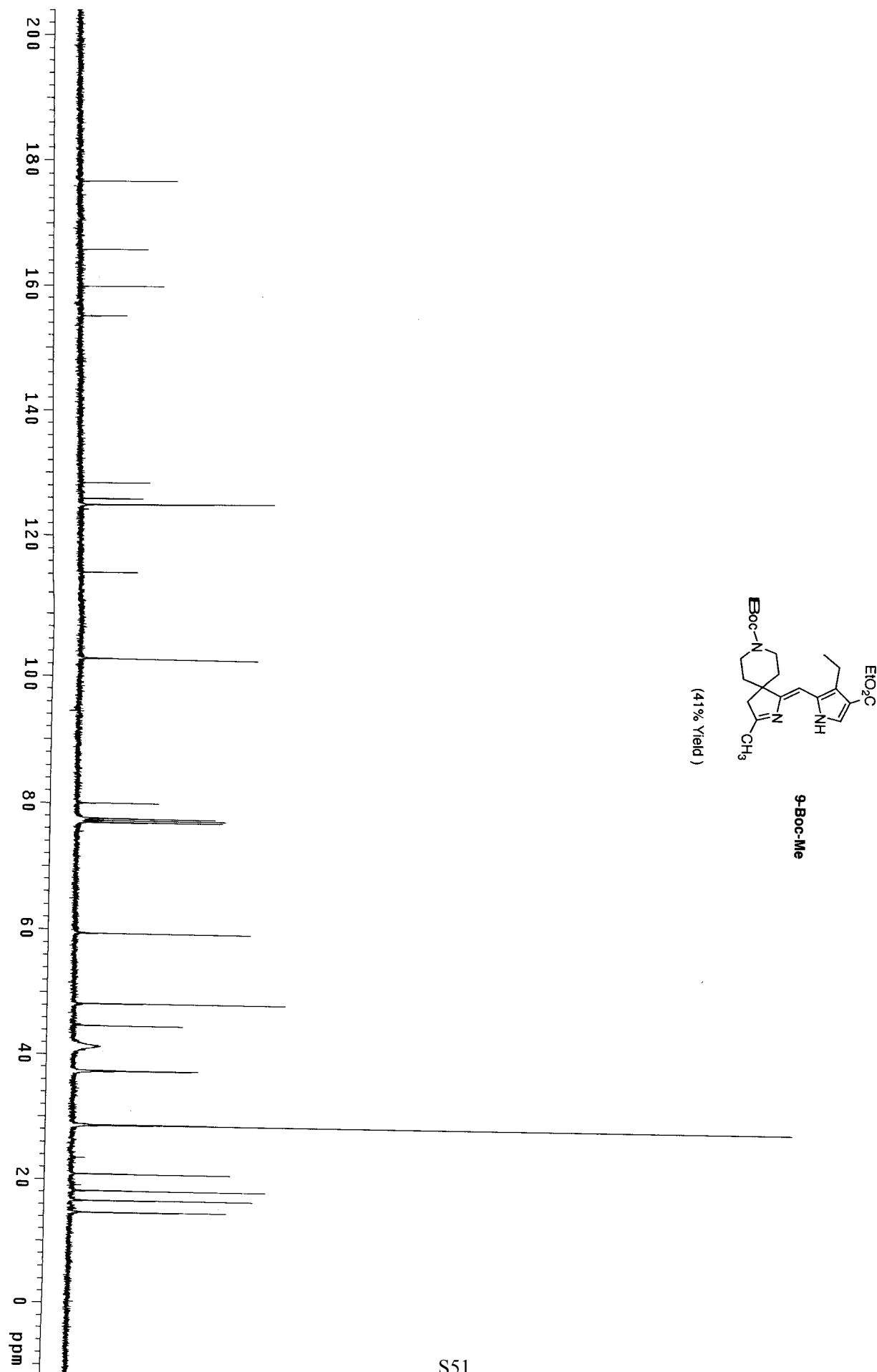
8-Boc









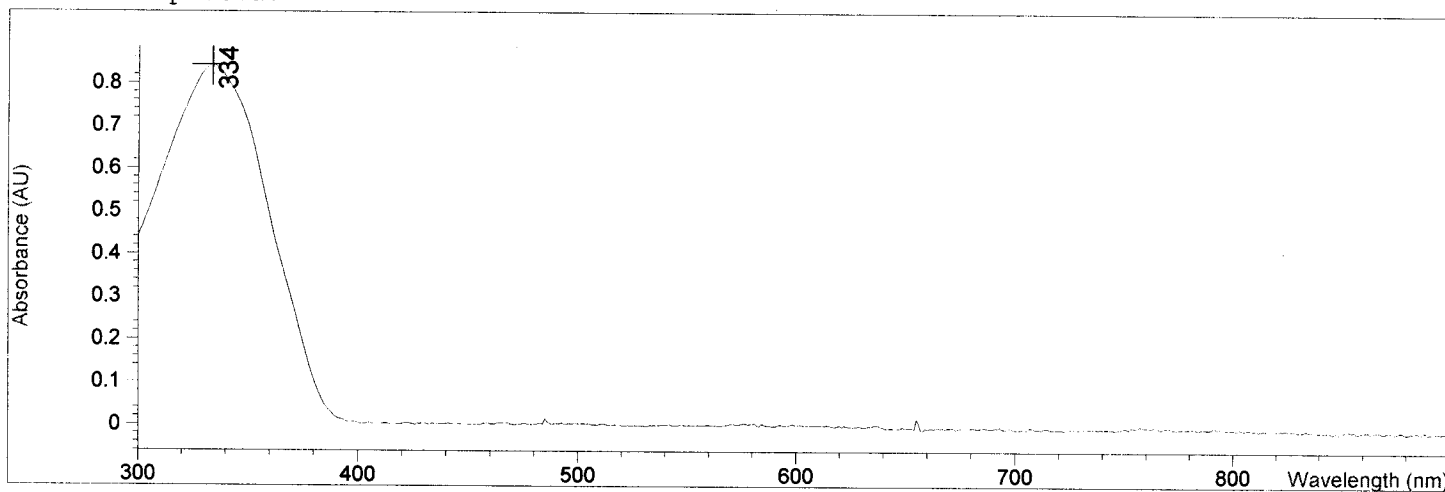


Spectrum/Peak Report

Date 12/16/2012 Time 11:41:21 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\Chem32\1\DATA\Ramesh\KRR219 METHYL CR.SD Created : 5/11/12
12:11:34

Overlaid Spectra:

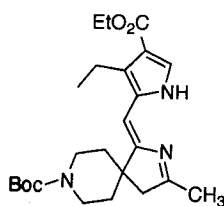


#	Name	Peaks (nm)	Abs (AU)
1		334.0	0.84279

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



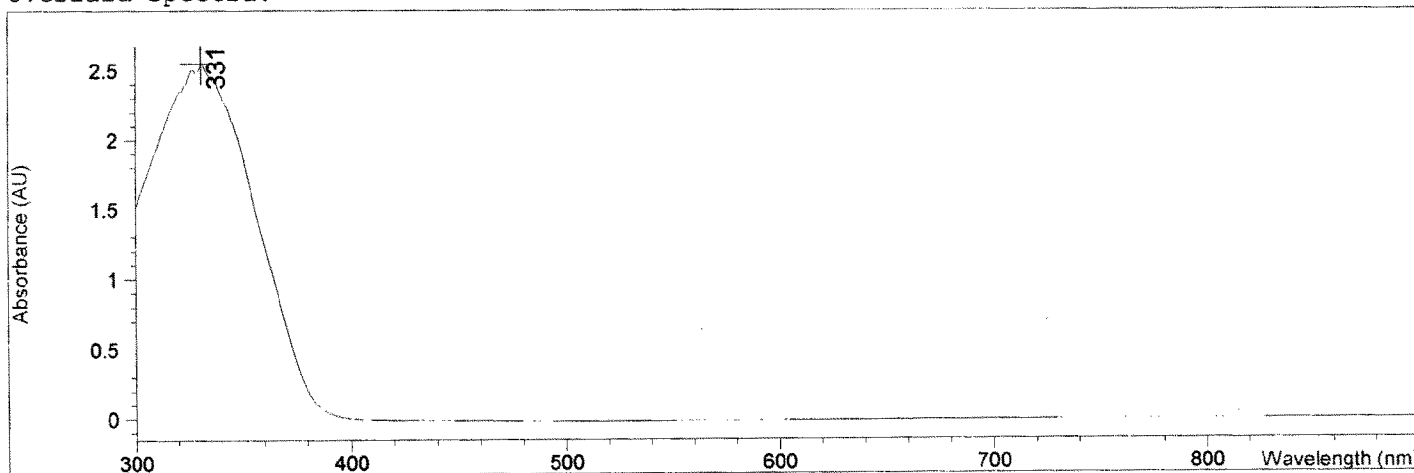
9-Boc-Me

Spectrum/Peak Report

Date 12/16/2012 Time 13:11:02 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\CHEM32\1\DATA\RAMESH\N-BOC-ME (DIETHYL ETHER).SD Created :
12/16/12 13:08:18

Overlaid Spectra:

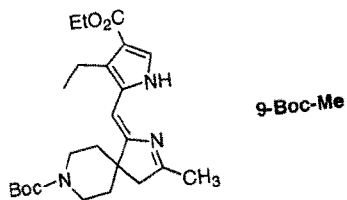


#	Name	Peaks (nm)	Abs (AU)
1		331.0	2.54880

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



Solvent : Diethyl ether

STANDARD 1H OBSERVE

Pulse Sequence: ghsqc

Solvent: DMSO

Ambient temperature

File: krf216-HSQC-DMSO

Mercury-400BB "ncsuserc400"

Relax. delay 1.000 sec

Acq. time 0.197 sec

Width 5211.0 Hz

2D Width 12594.5 Hz

70 repetitions

2 x 128 increments

OBSERVE H1, 400.1371014 MHz

DATA PROCESSING

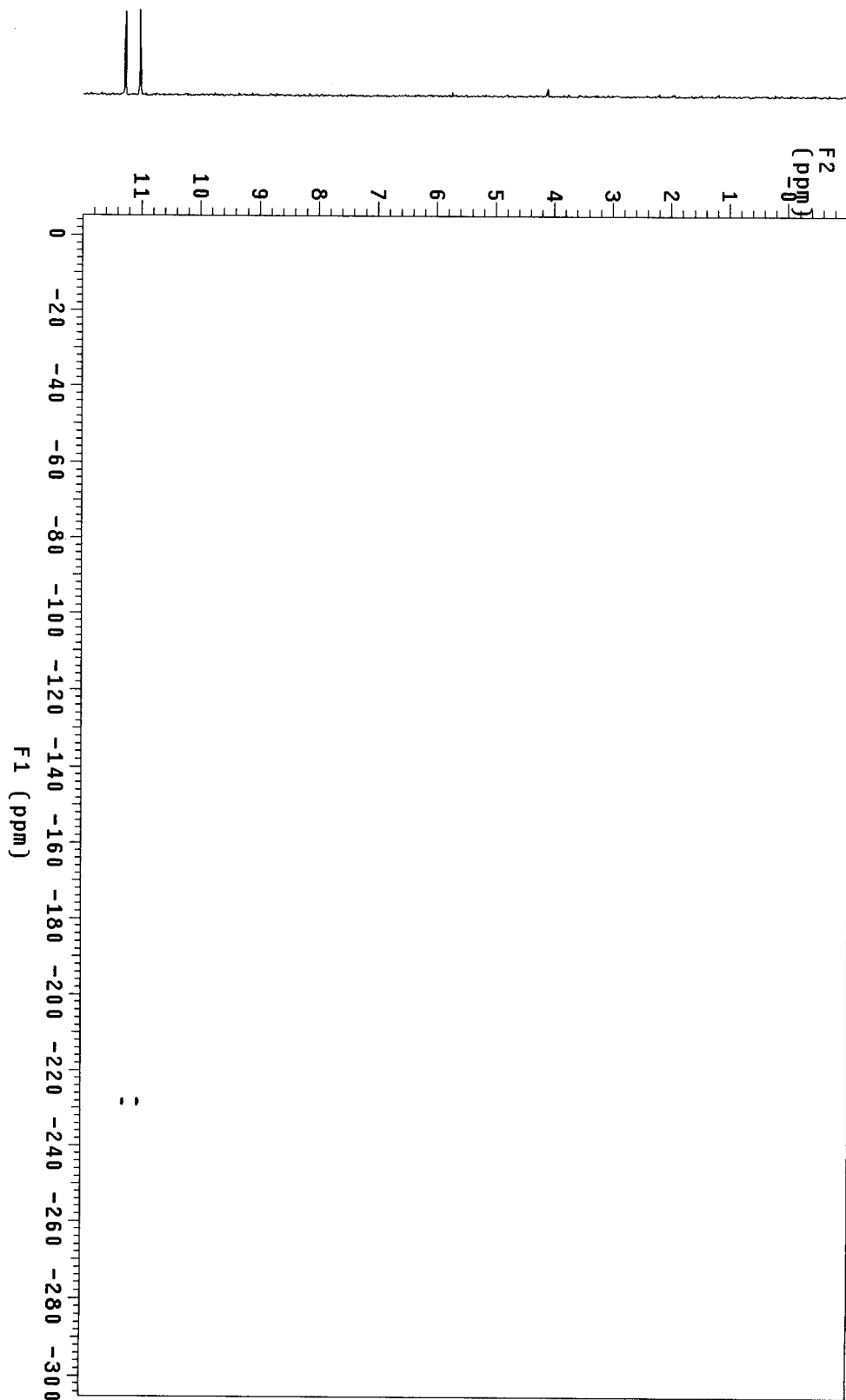
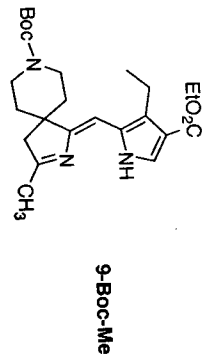
Gauss apodization 0.091 sec

F1 DATA PROCESSING

Gauss apodization 0.014 sec

FT size 2048 x 2048

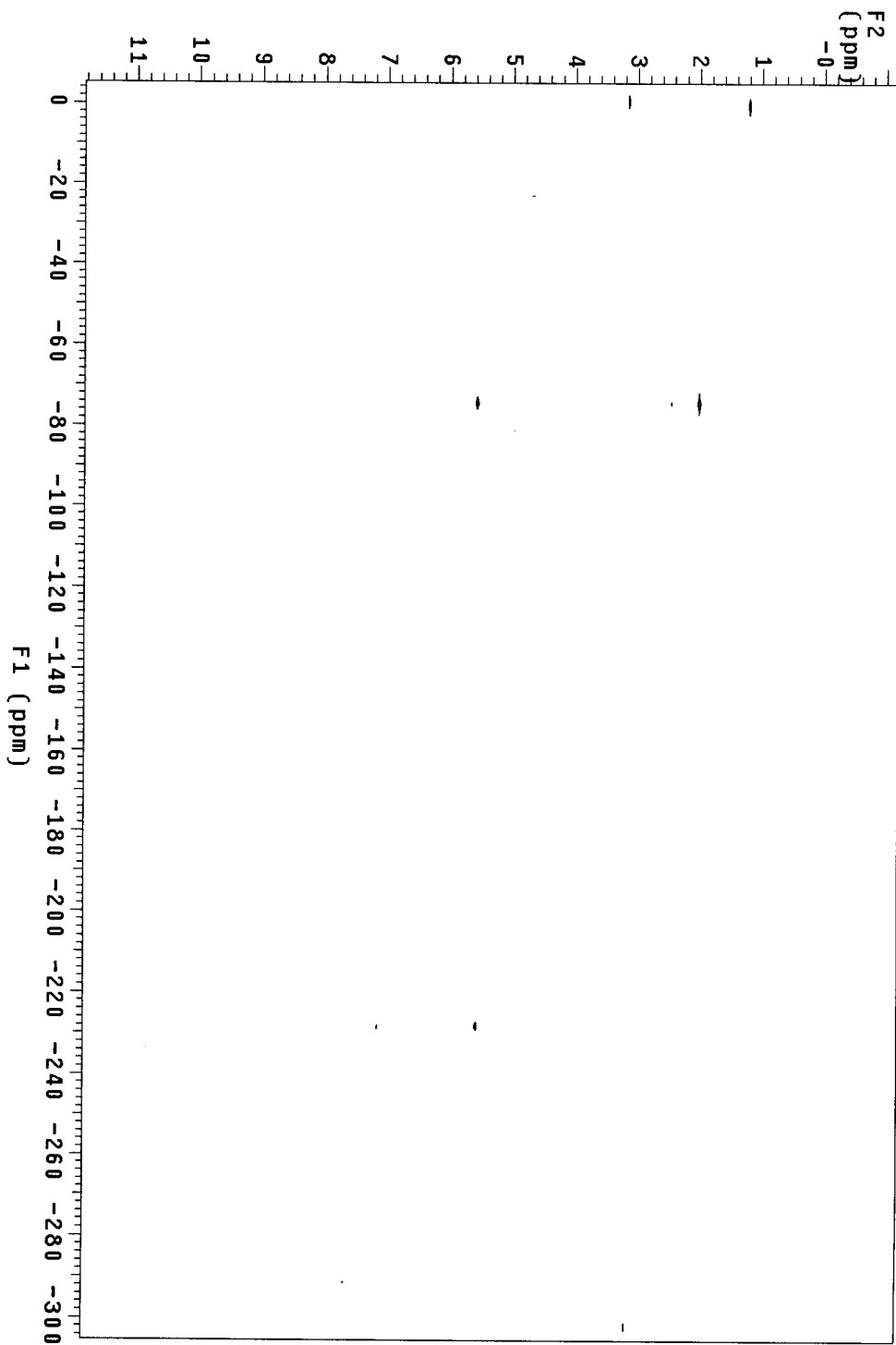
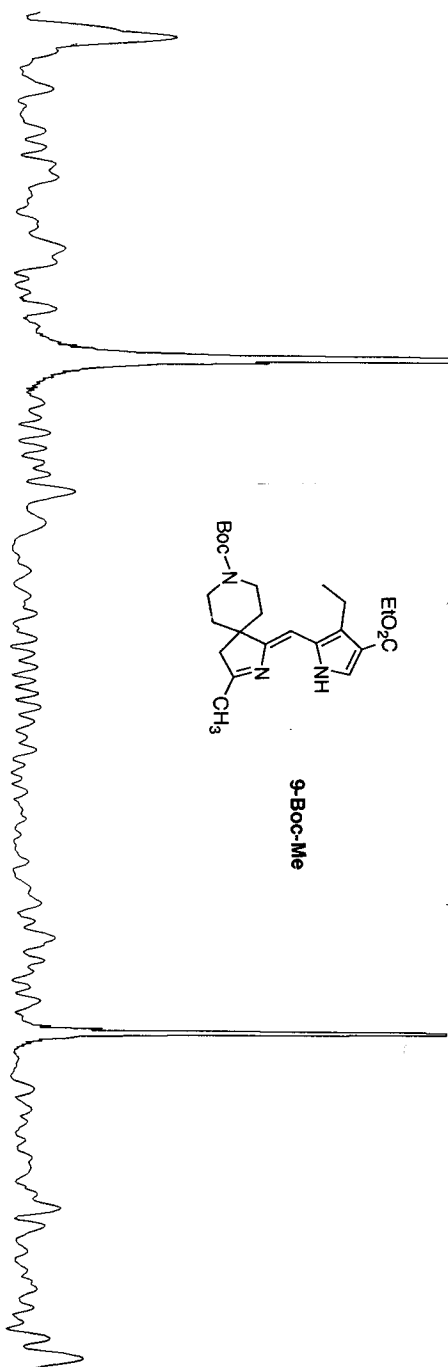
Total time 6 hr, 35 min, 52 sec



STANDARD 1H OBSERVE

Pulse Sequence: ghmBC
Solvent: DMSO
Ambient temperature
Mercury-400BB "ncsuserc400"

Relax. delay 1.000 sec
Acq. time 0.157 sec
Width 5211.0 Hz
2D Width 12594.5 Hz
128 repetitions
256 increments
OBSERVE H1, 400.1371645 MHz
DATA PROCESSING
Sine bell 0.098 sec
F1 DATA PROCESSING
Sine bell 0.126 sec
FT size 2048 x 2048
Total time 12 hr, 9 min, 55 sec

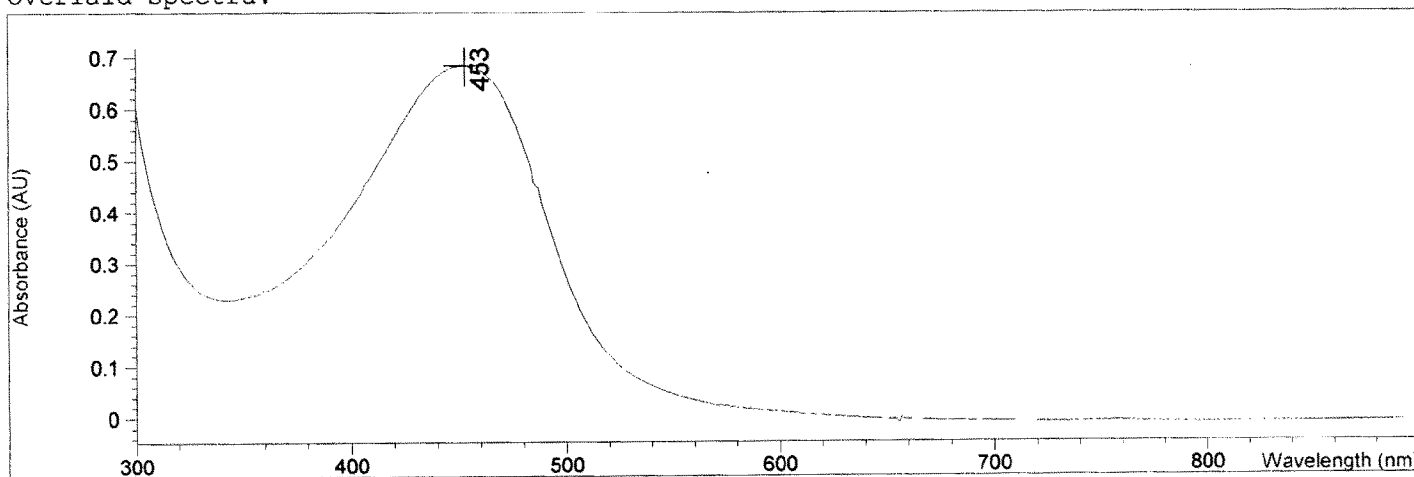


Spectrum/Peak Report

Date 12/16/2012 Time 12:42:07 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\CHEM32\1\DATA\RAMESH\KRR-N-BOC-ALDEHYDE(11-BOC-CHO).SD
Created : 8/1/12 11:12:40

Overlaid Spectra:

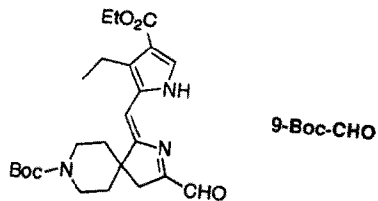


#	Name	Peaks (nm)	Abs (AU)
1		453.0	0.68349

Report generated by : Lindsey Lab

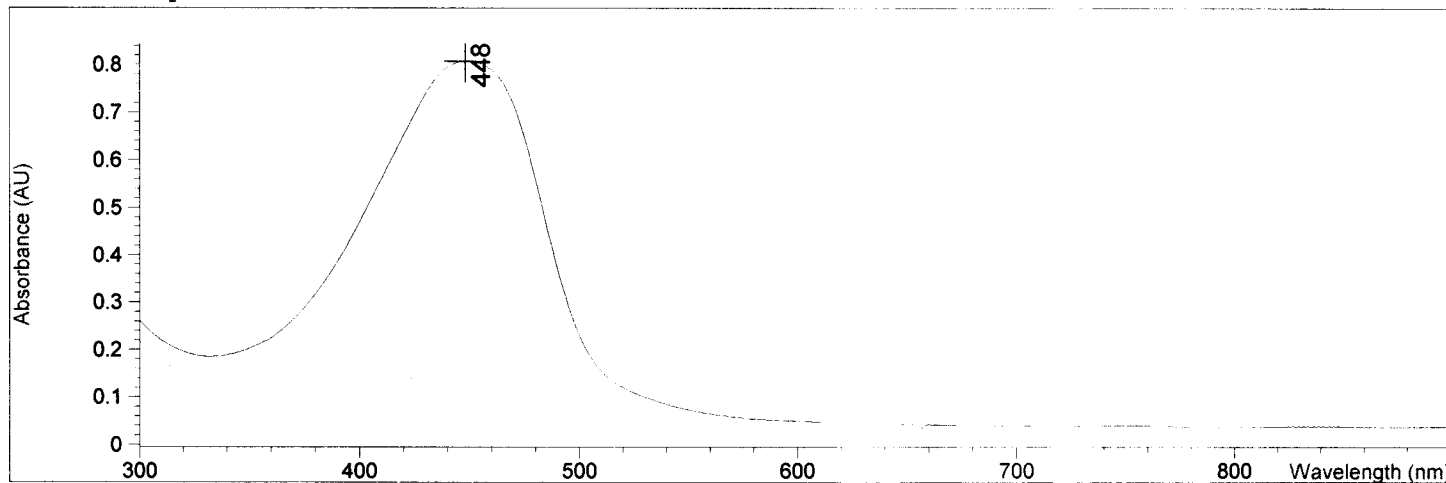
Signature:

*** End Spectrum/Peak Report ***



Method file : <method not saved>
Information : Default Method
Data File : C:\Chem32\1\DATA\Elisa\data222\11-BOC-CHO_DIETHYL ETHER.SD
Created : 7/2/12 9:57:14

Overlaid Spectra:

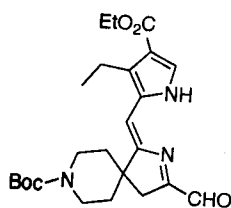


#	Name	Peaks (nm)	Abs (AU)
1		448.0	0.80710

Report generated by : jon

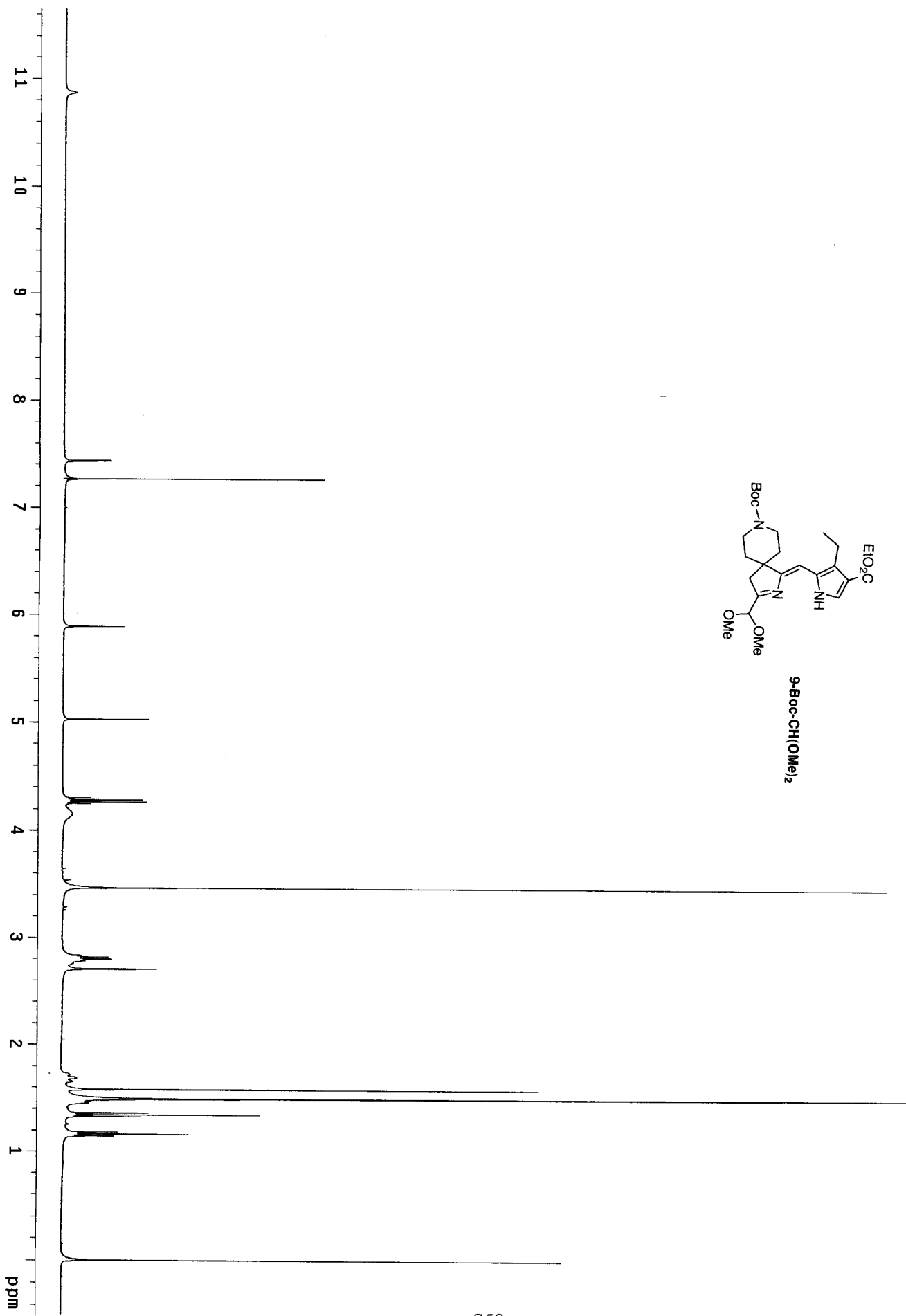
Signature:

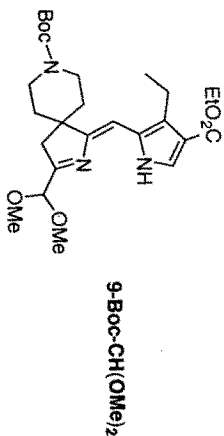
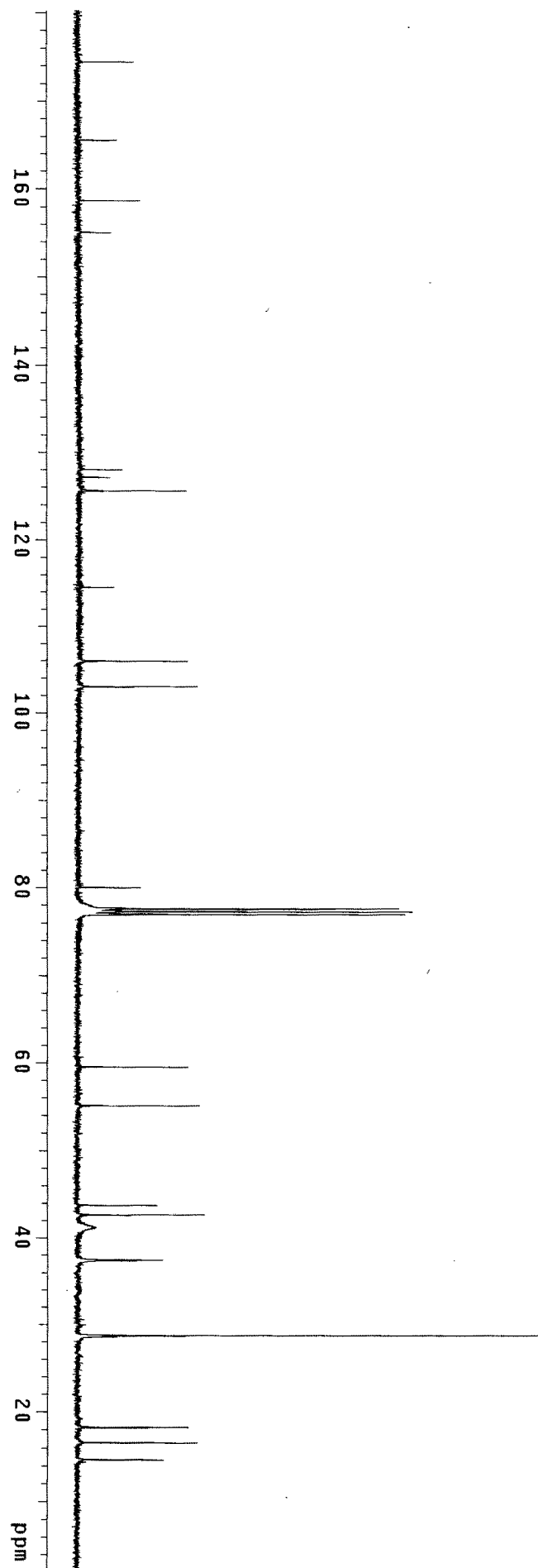
*** End Spectrum/Peak Report ***



9-Boc-CHO

Solvent : Diethyl ether



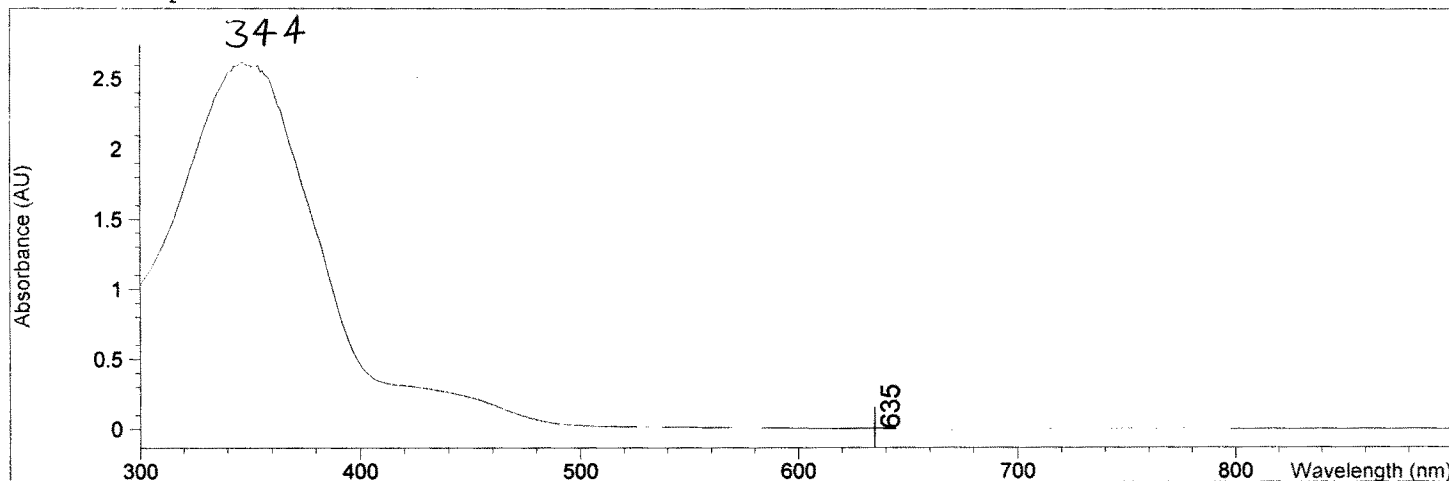


Spectrum/Peak Report

Date 12/16/2012 Time 13:26:49 Page 1 of 1

Method file : <untitled>
Information : Default Method
Data File : C:\Chem32\1\DATA\Elisa\data\11-BOC-DIACETAL TOLUENE.SD Created
: 7/18/12 14:21:13

Overlaid Spectra:

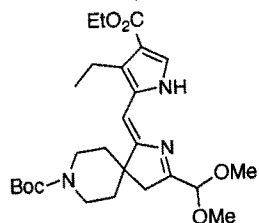


#	Name	Peaks (nm)	Abs (AU)
1		635.0	3.6216E-3

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



9-Boc-CH(OMe)₂

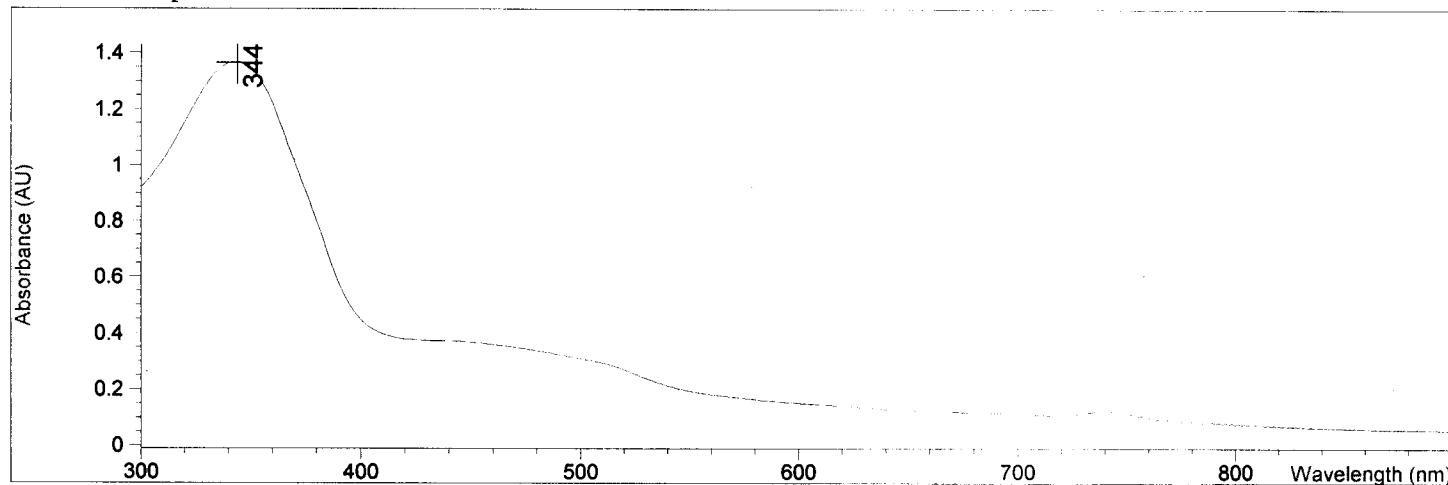
Solvent : Toluene

Spectrum/Peak Report

Date 12/16/2012 Time 13:43:15 Page 1 of 1

Method file : <method not saved>
 Information : Default Method
 Data File : C:\Chem32\1\DATA\Elisa\data222\11-BOC-CH(OMe)₂_DIETHYL ETHER.SD
 Created : 7/2/12 13:21:10

Overlaid Spectra:

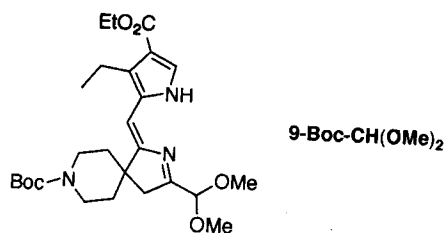


#	Name	Peaks (nm)	Abs (AU)
1		344.0	1.36480

Report generated by : jon

Signature:

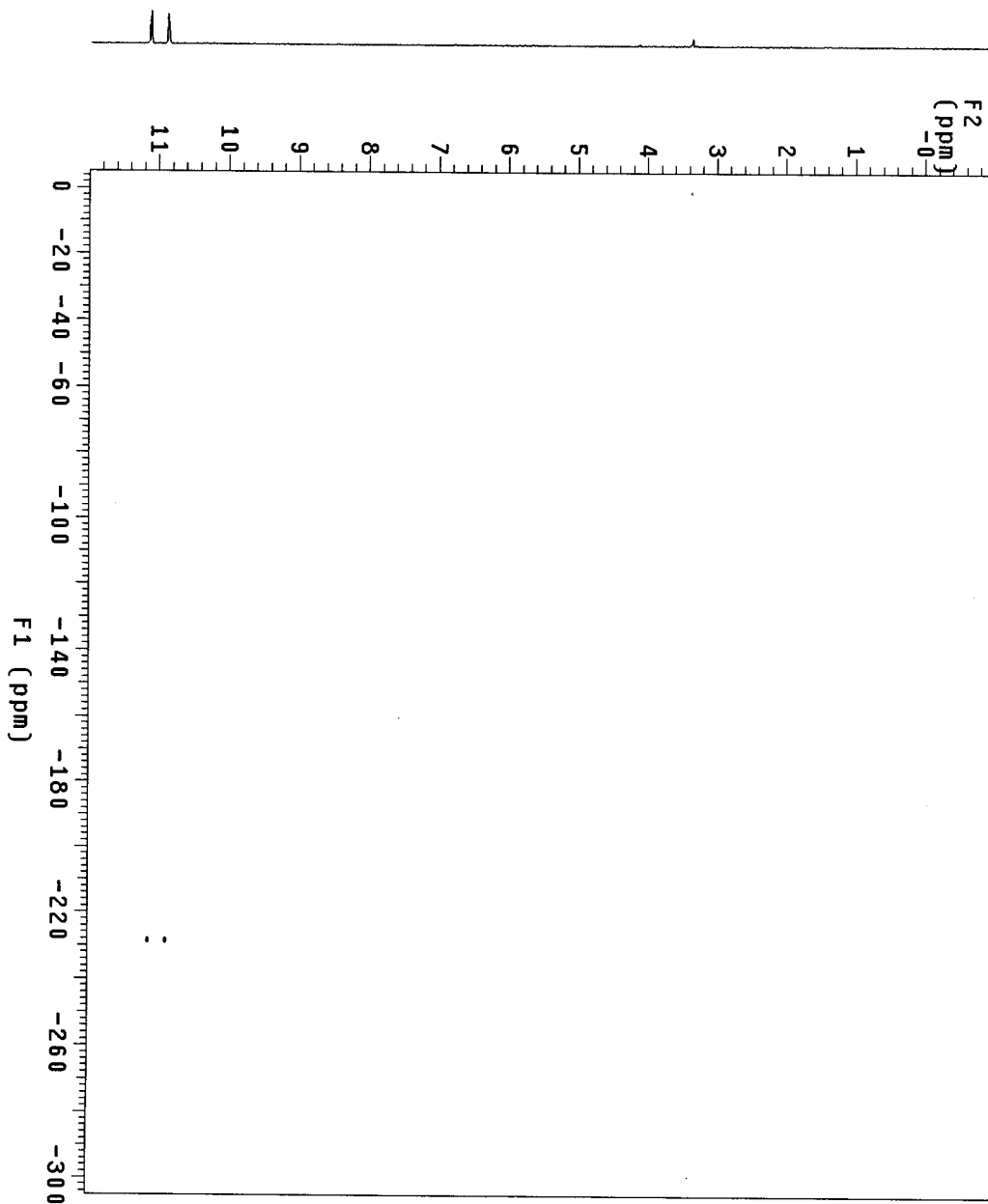
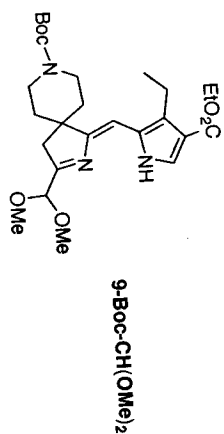
*** End Spectrum/Peak Report ***

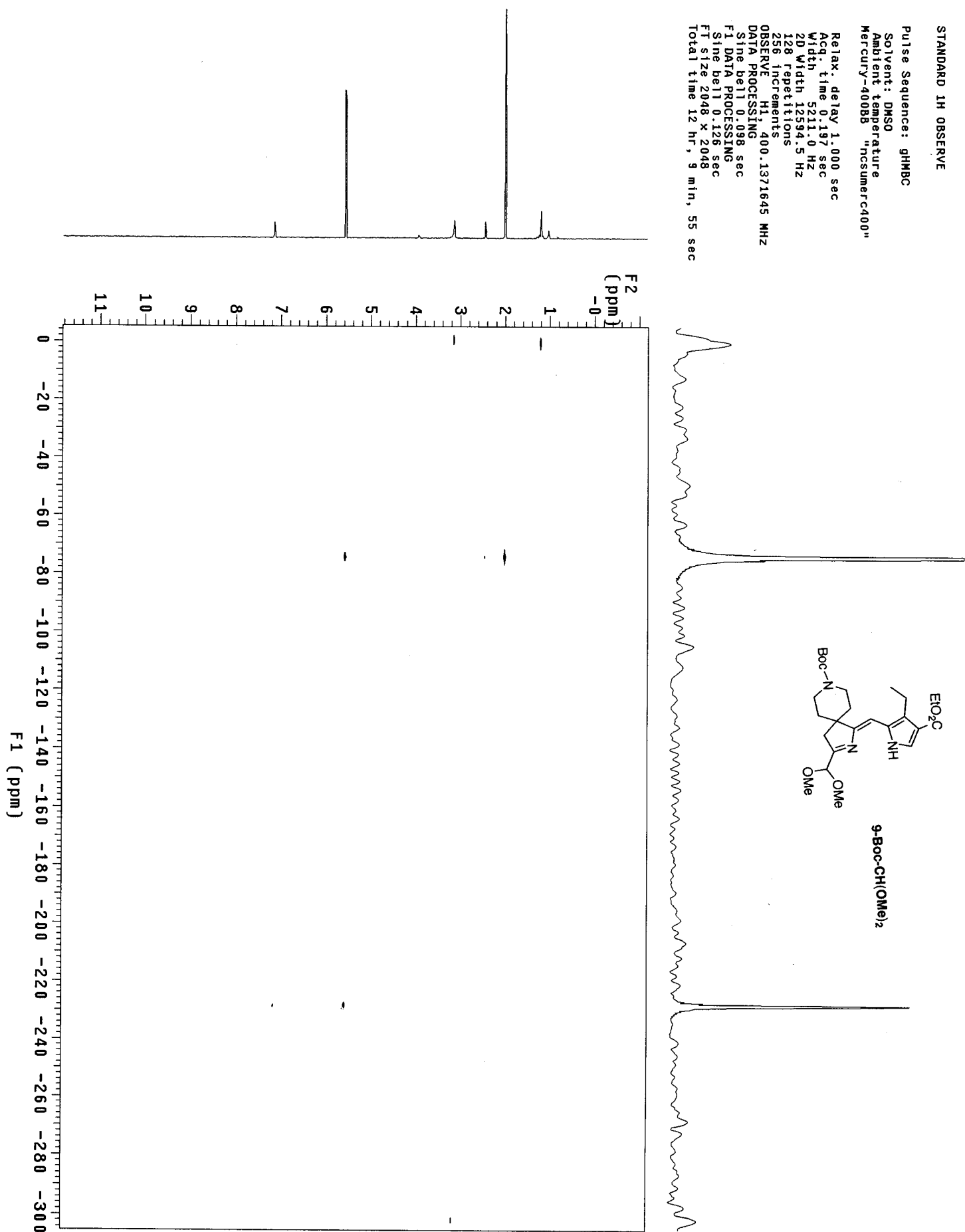


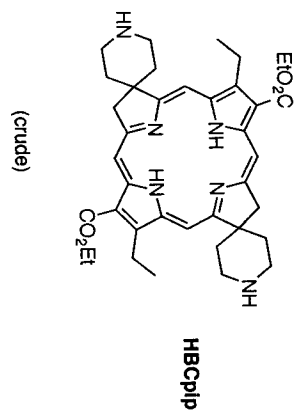
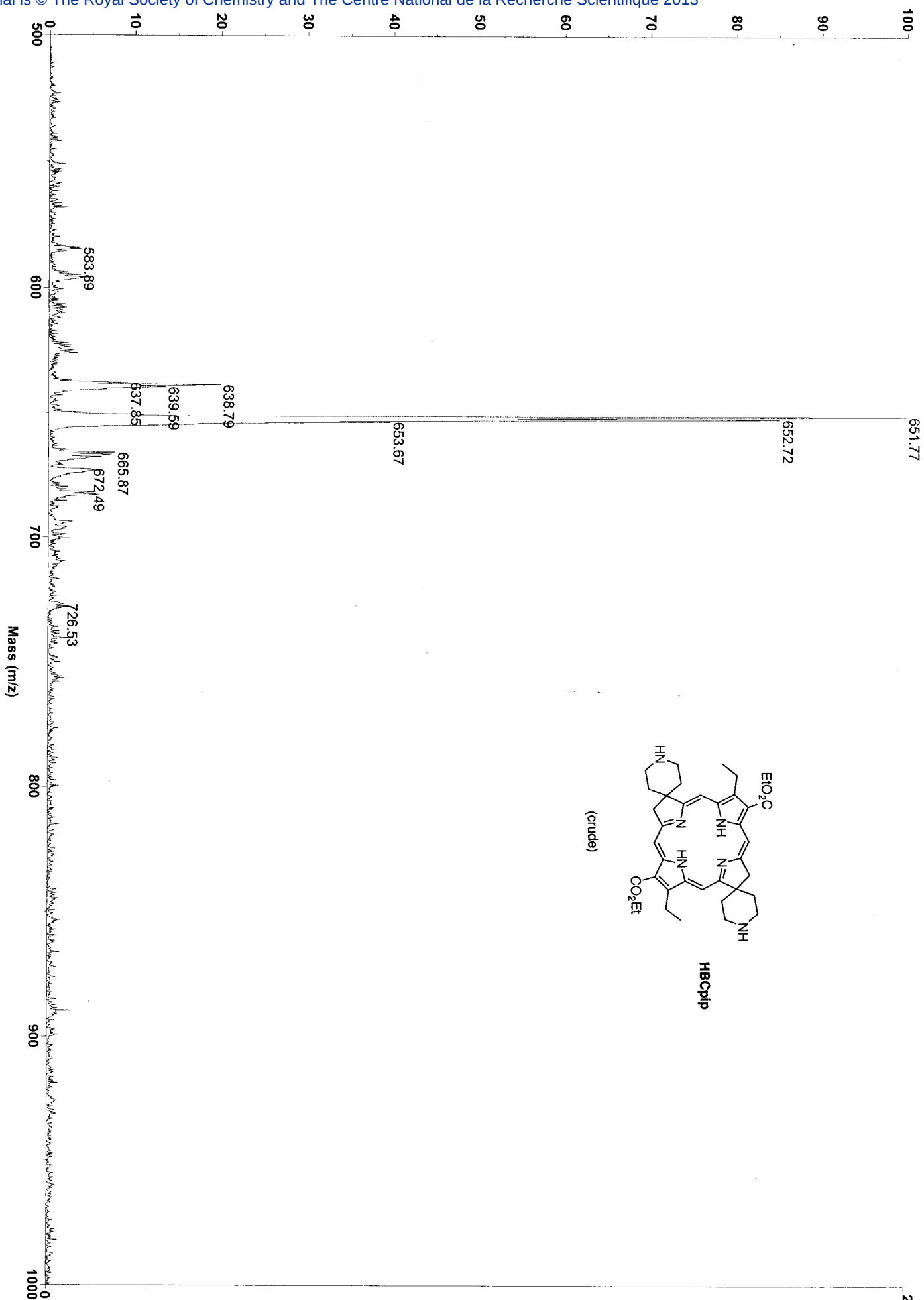
STANDARD 1H OBSERVE

Pulse Sequence: ghsqc
 Solvent: DMSO
 Ambient temperature
 Mercury-400BB "ncsuncerc400"

Relax. delay 1.000 sec
 Acq. time 0.197 sec
 Width 5211.0 Hz
 2D Width 12594.5 Hz
 120 repetitions
 2 x 128 increments
 OBSERVE H1, 400.1371014 MHz
 DATA PROCESSING
 Gauss apodization 0.091 sec
 F1 DATA PROCESSING
 Gauss apodization 0.014 sec
 F1 size 2048 x 2048
 Total time 11 hr, 17 min, 8 sec







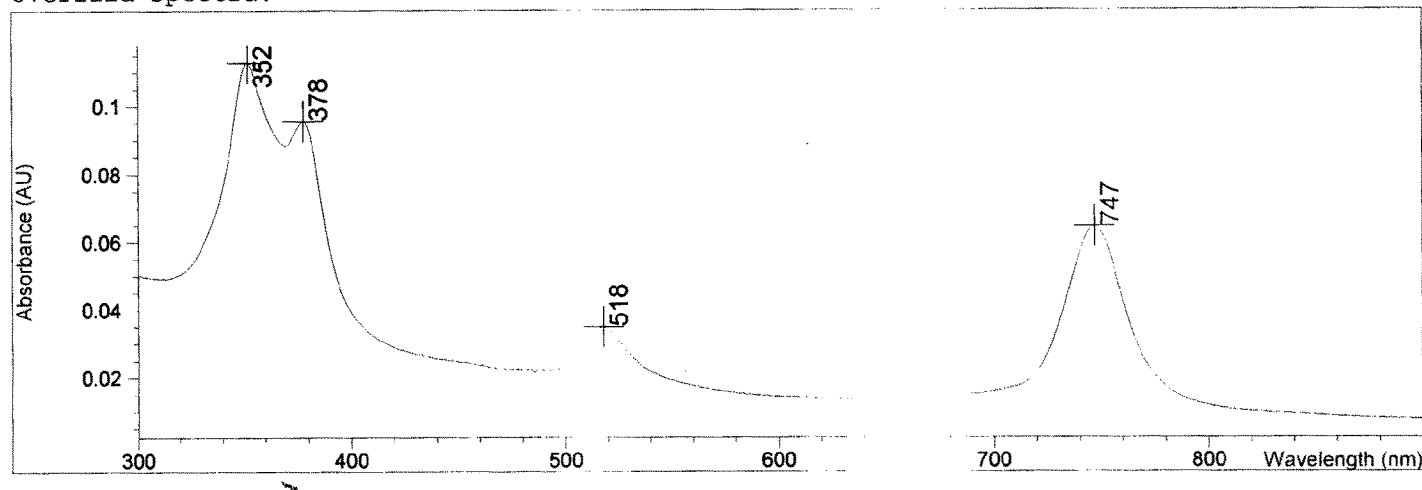


Spectrum/Peak Report

Date 12/18/2012 Time 16:14:40 Page 1 of 1

Method file : <method not saved>
 Information : Default Method
 Data File : C:\Chem32\1\DATA\Elisa\data222\PP117WATER.SD Created : 4/26/12
 11:21:39

Overlaid Spectra:

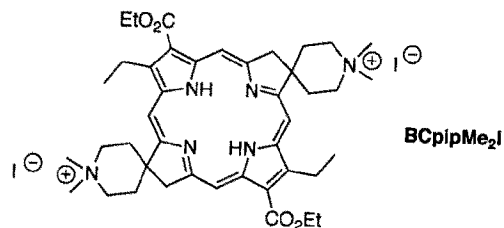


#	Name	Peaks (nm)	Abs (AU)
1		352.0	0.11295
1		378.0	9.5631E-2
1		747.0	6.4574E-2
1		518.0	3.4861E-2

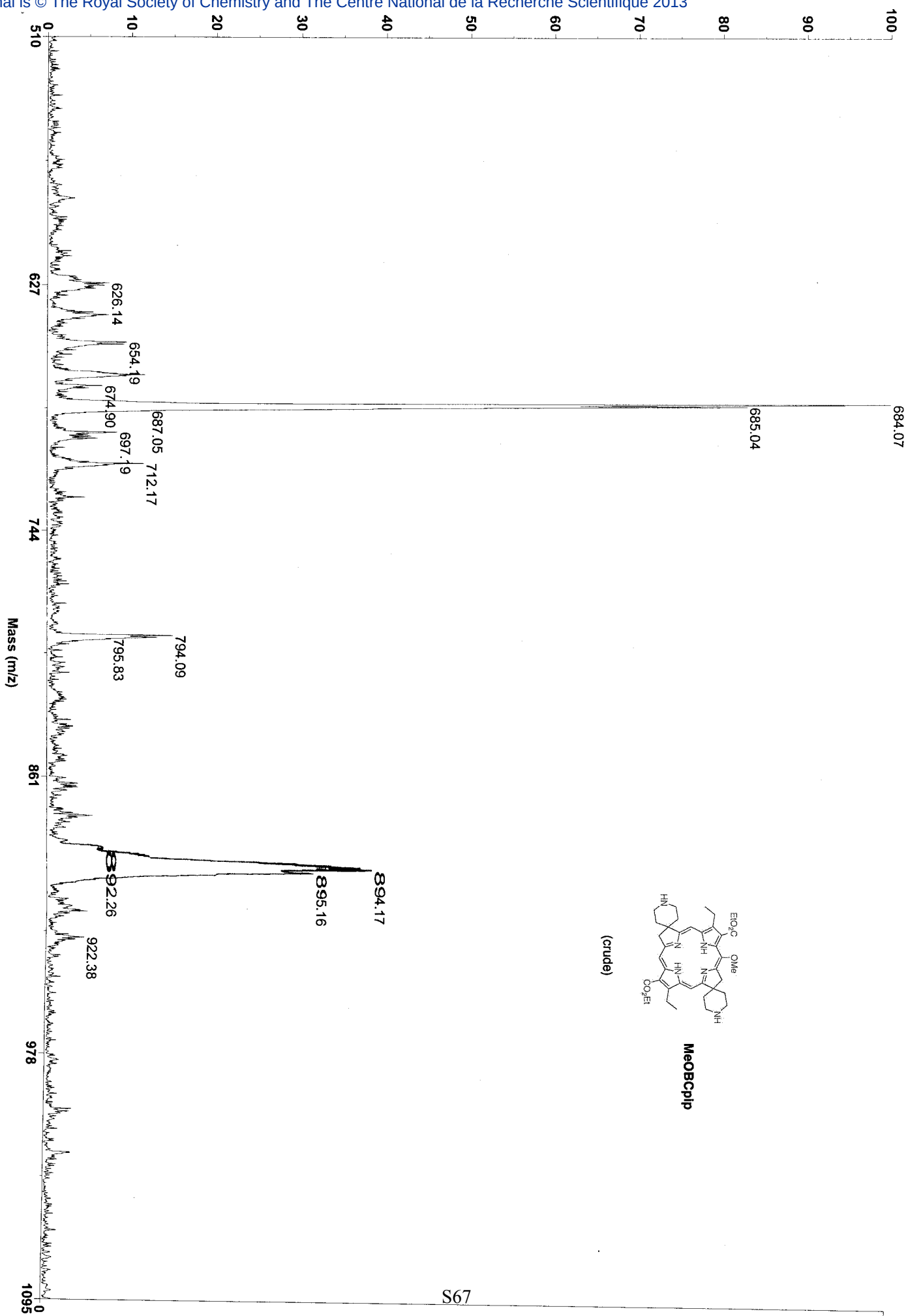
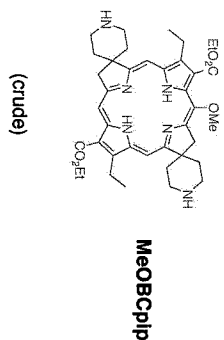
Report generated by : jon

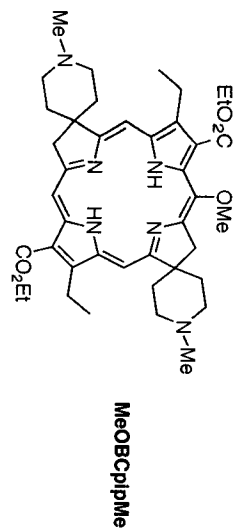
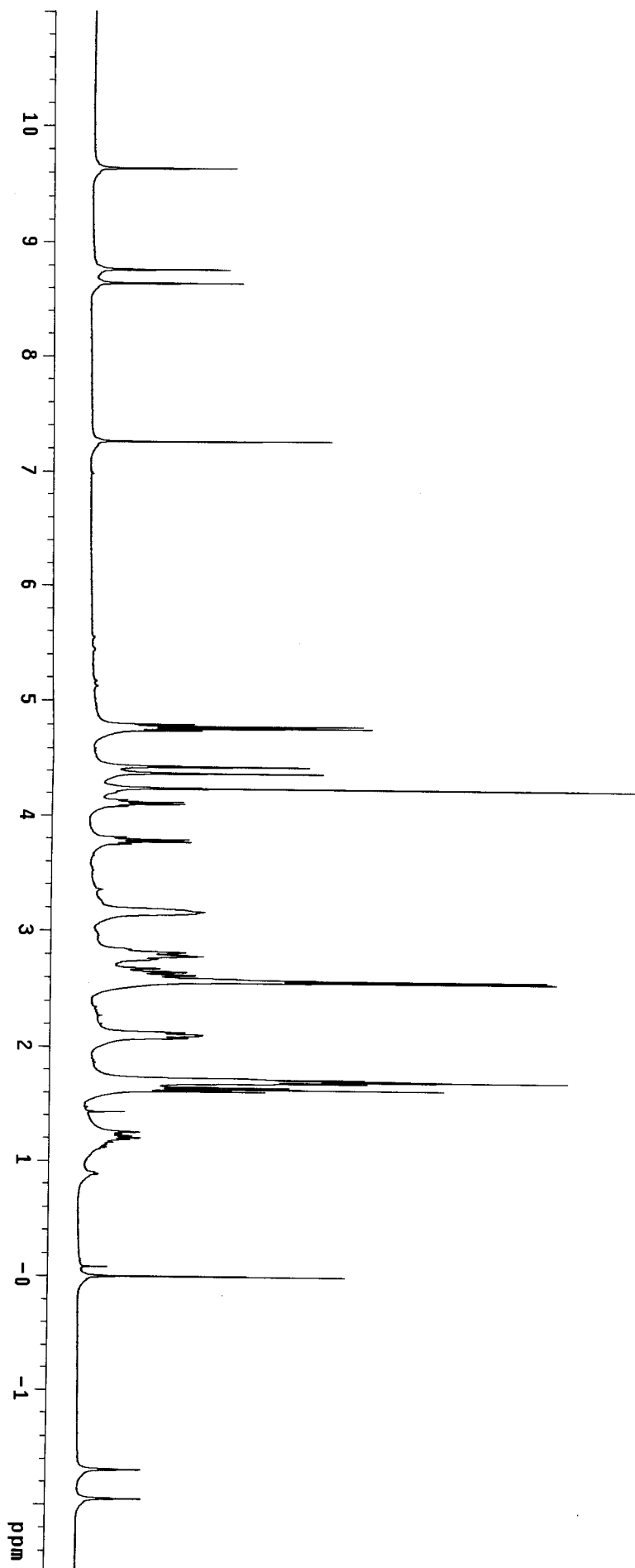
Signature:

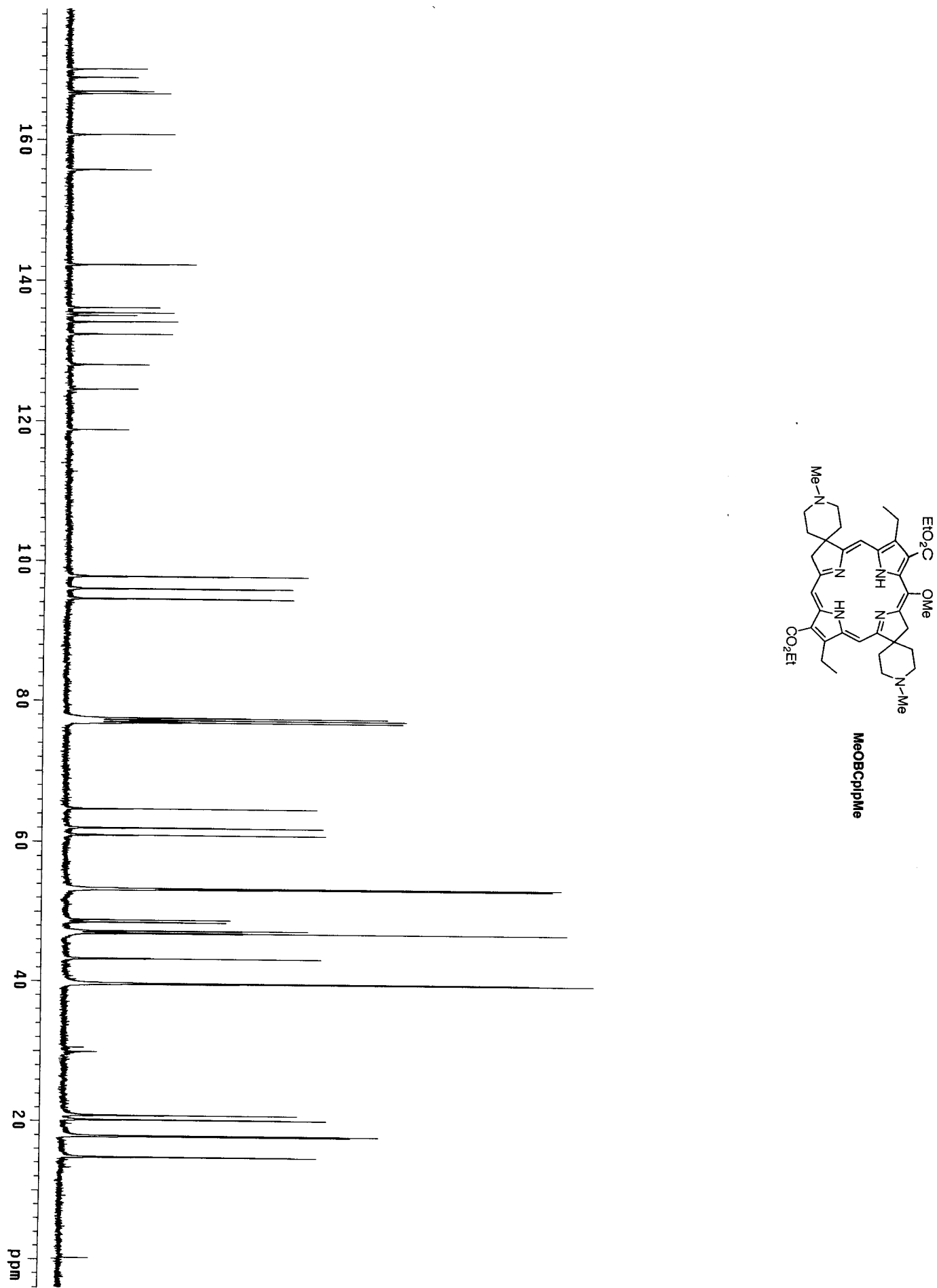
*** End Spectrum/Peak Report ***

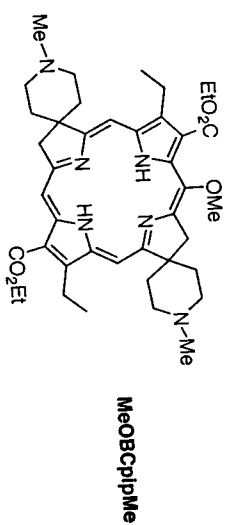
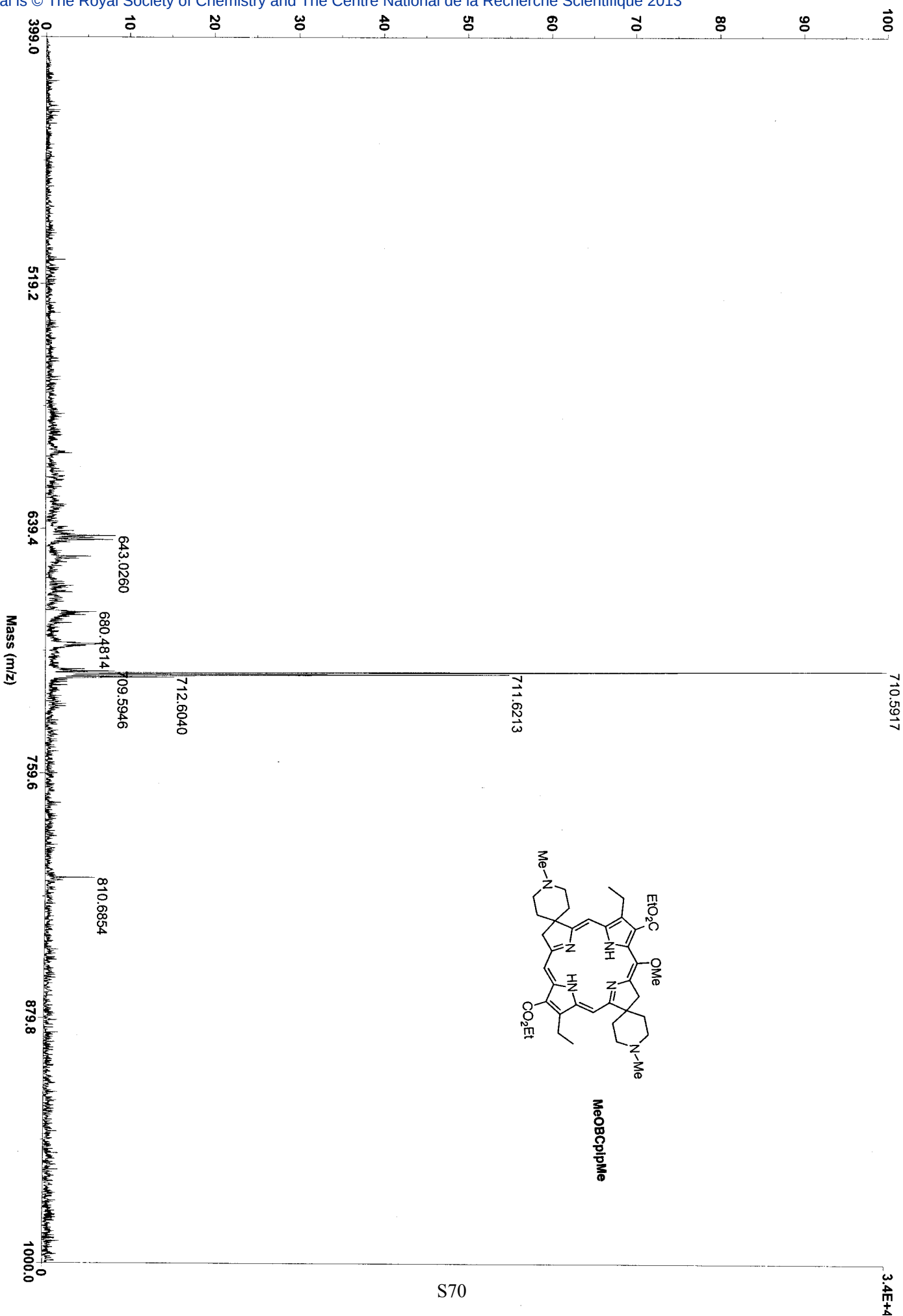


Voyager Spec #1=>NF0.7=>SM5[BP = 684.0, 221  O]









Spectrum/Peak Report

Date 12/18/2012 Time 15:47:07 Page 1 of 1

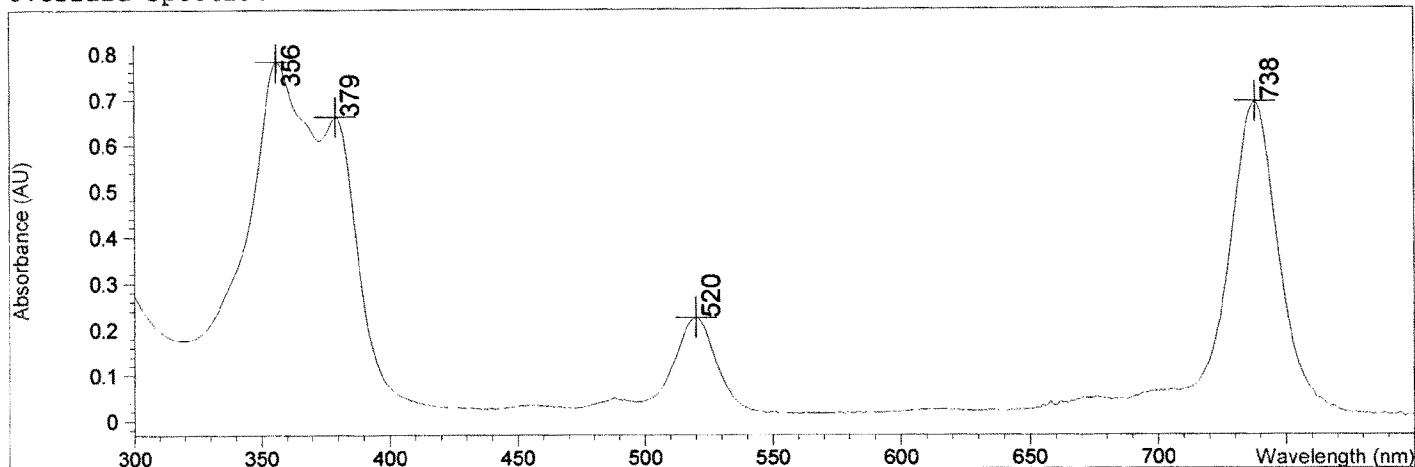
Method file : <untitled>

Information : Default Method

Data File : C:\Chem32\1\DATA\Ramesh\KRR229PURE.SD

Created : 6/1/12 11:22:29

Overlaid Spectra:

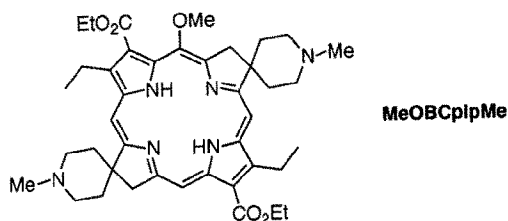


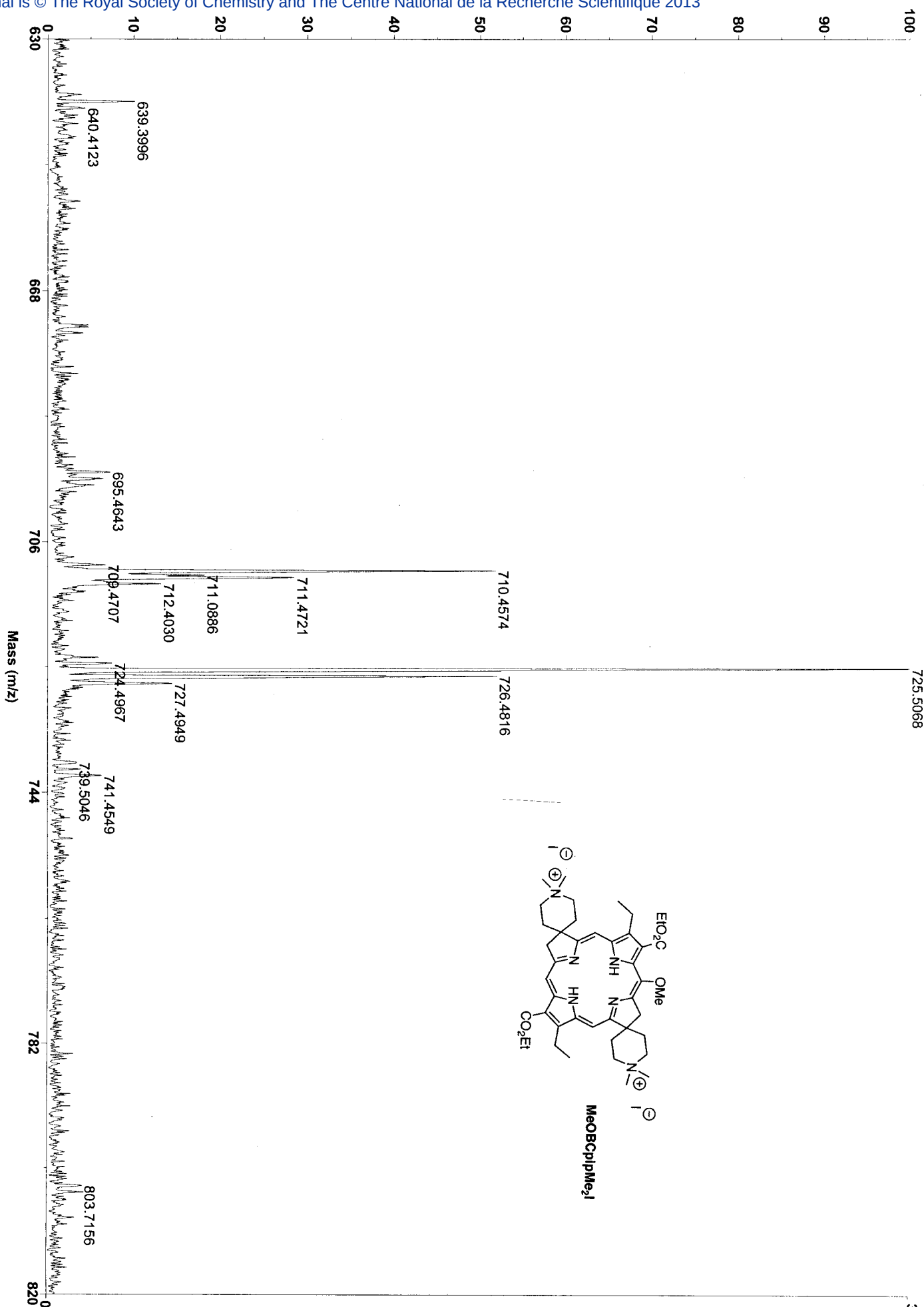
#	Name	Peaks (nm)	Abs (AU)
1		356.0	0.78230
1		738.0	0.69183
1		379.0	0.66213
1		520.0	0.22448

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***



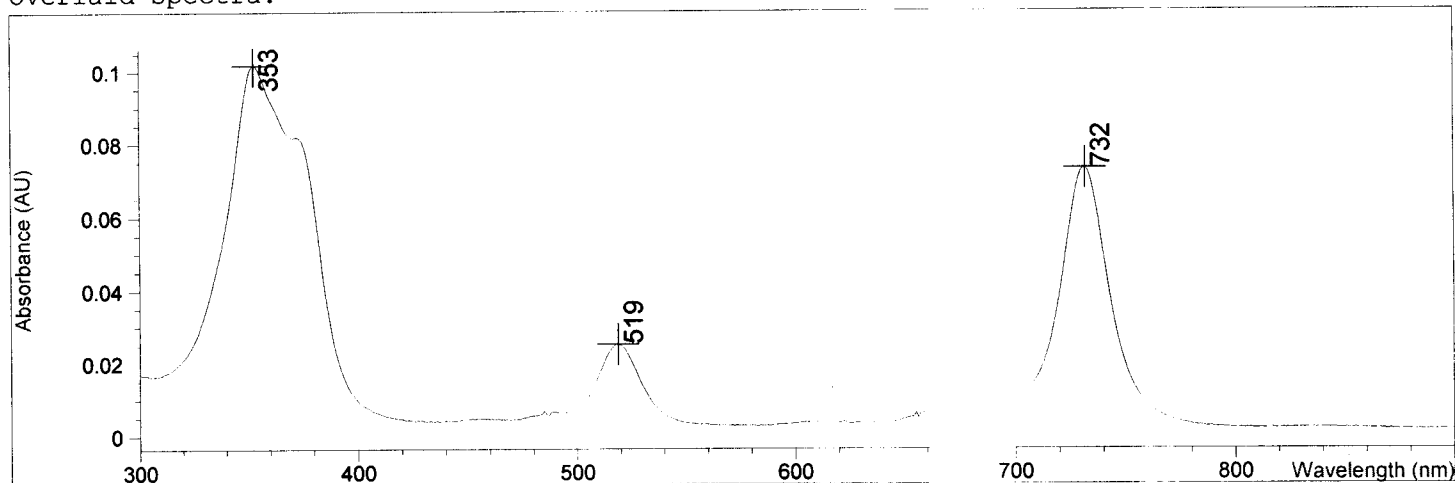


Spectrum/Peak Report

Date 12/18/2012 Time 16:13:21 Page 1 of 1

Method file : <method not saved>
 Information : Default Method
 Data File : C:\Chem32\1\DATA\Elisa\data222\KRR-226WATER.SD Created :
 4/26/12 10:44:31

Overlaid Spectra:

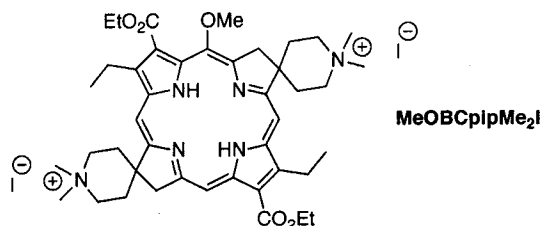


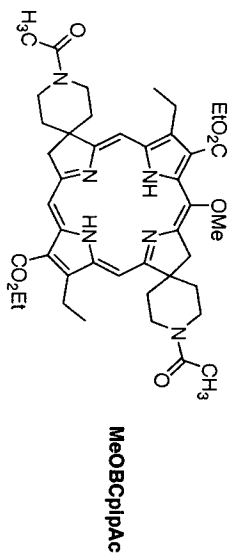
#	Name	Peaks (nm)	Abs (AU)
1		353.0	0.10177
1		732.0	7.3152E-2
1		519.0	2.5257E-2

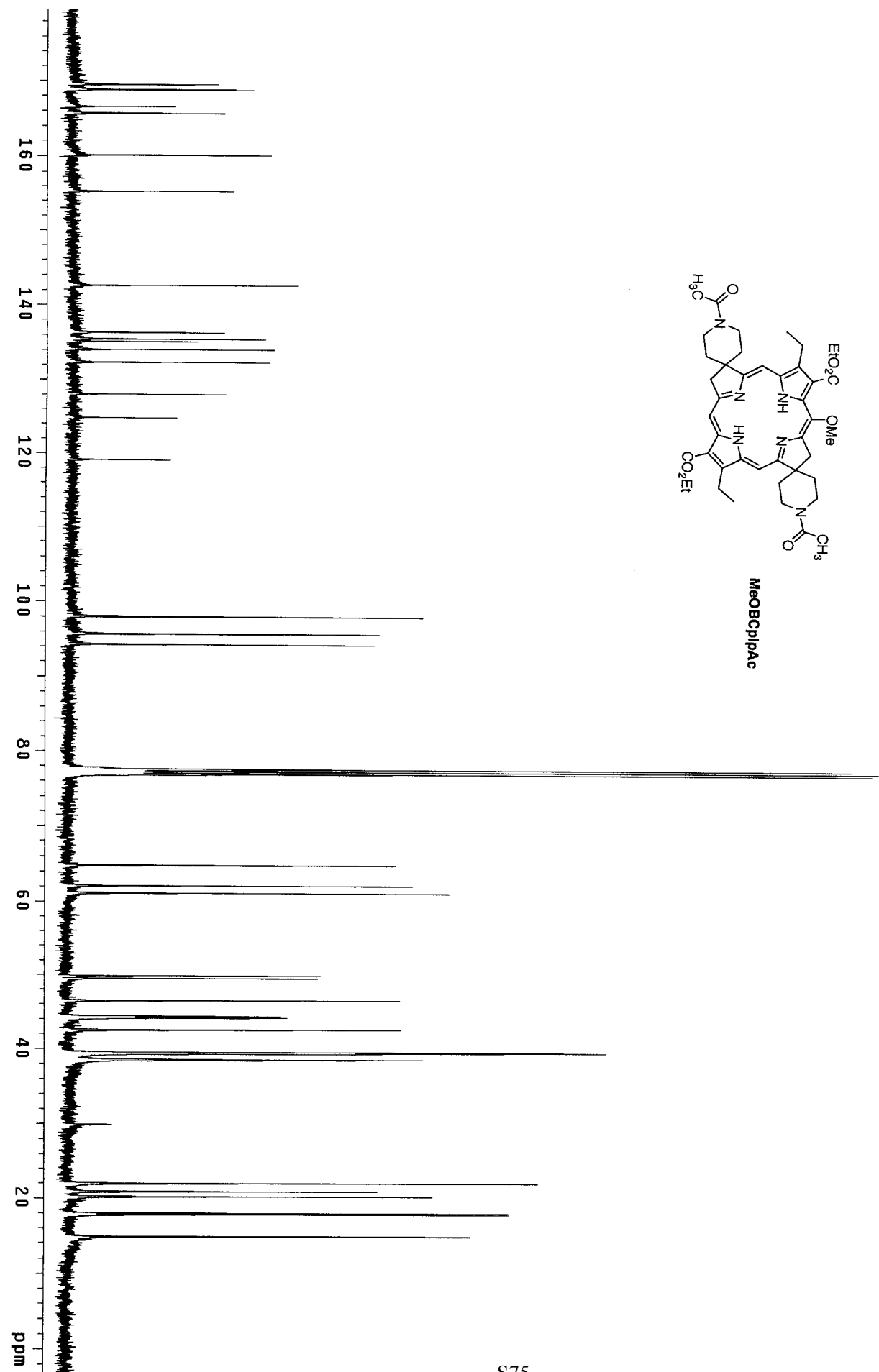
Report generated by : jon

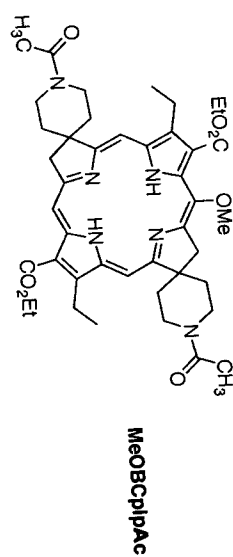
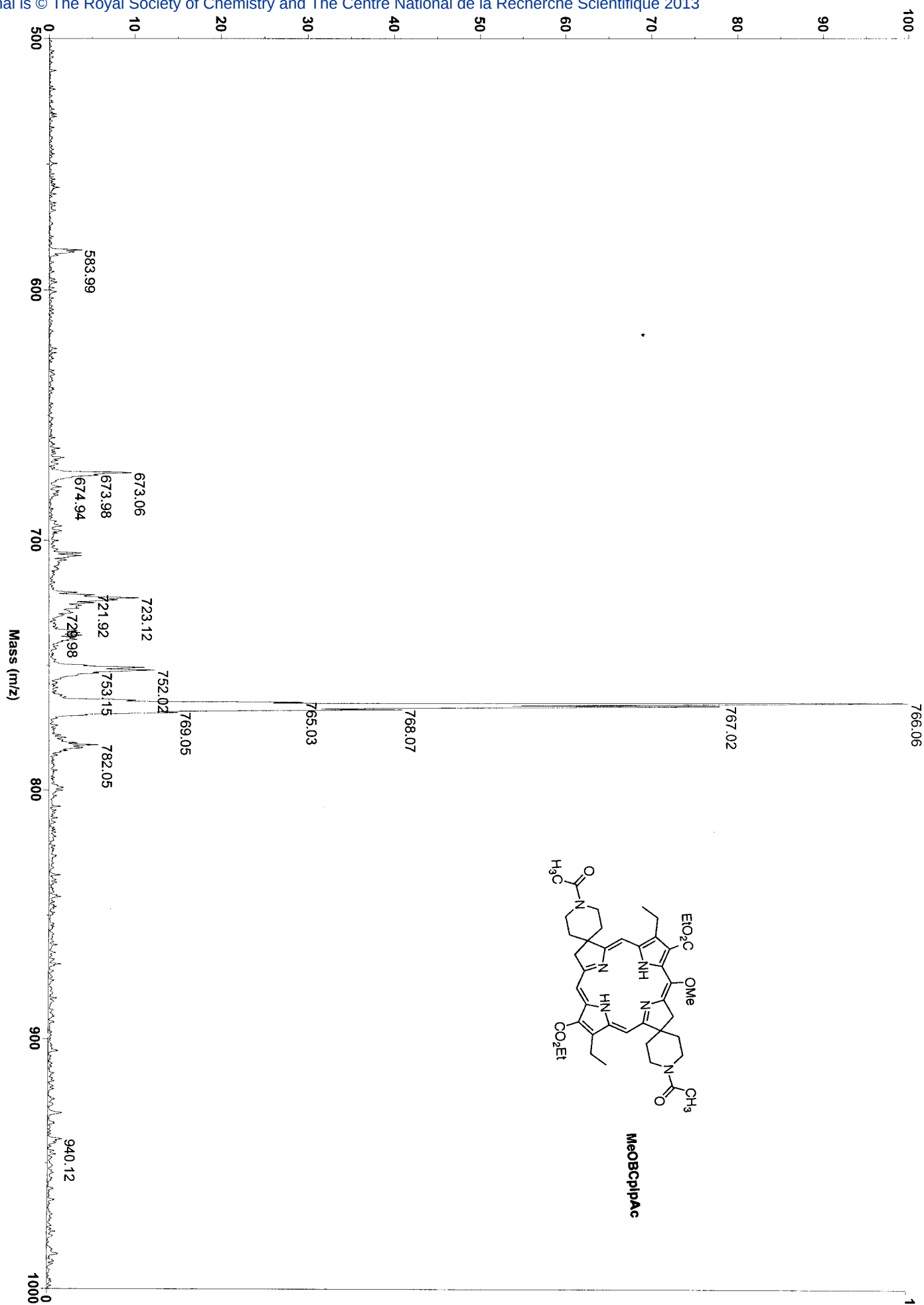
Signature:

*** End Spectrum/Peak Report ***







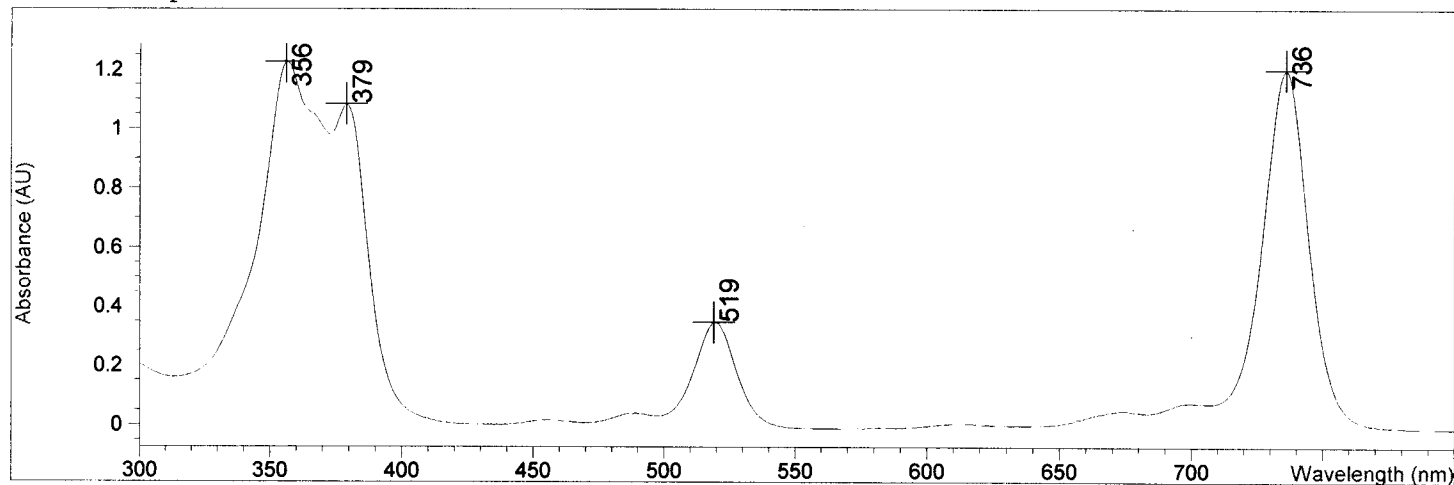


Spectrum/Peak Report

Date 12/18/2012 Time 15:44:45 Page 1 of 1

Method file : <untitled>
 Information : Default Method
 Data File : C:\Chem32\1\DATA\Ramesh\KRR239P1.SD Created : 12/10/12 19:12:31

Overlaid Spectra:

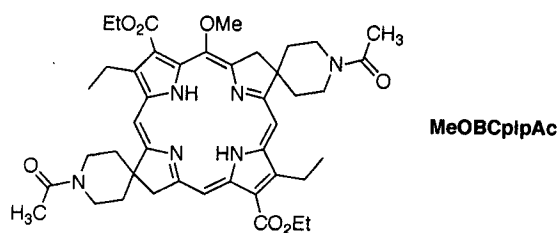


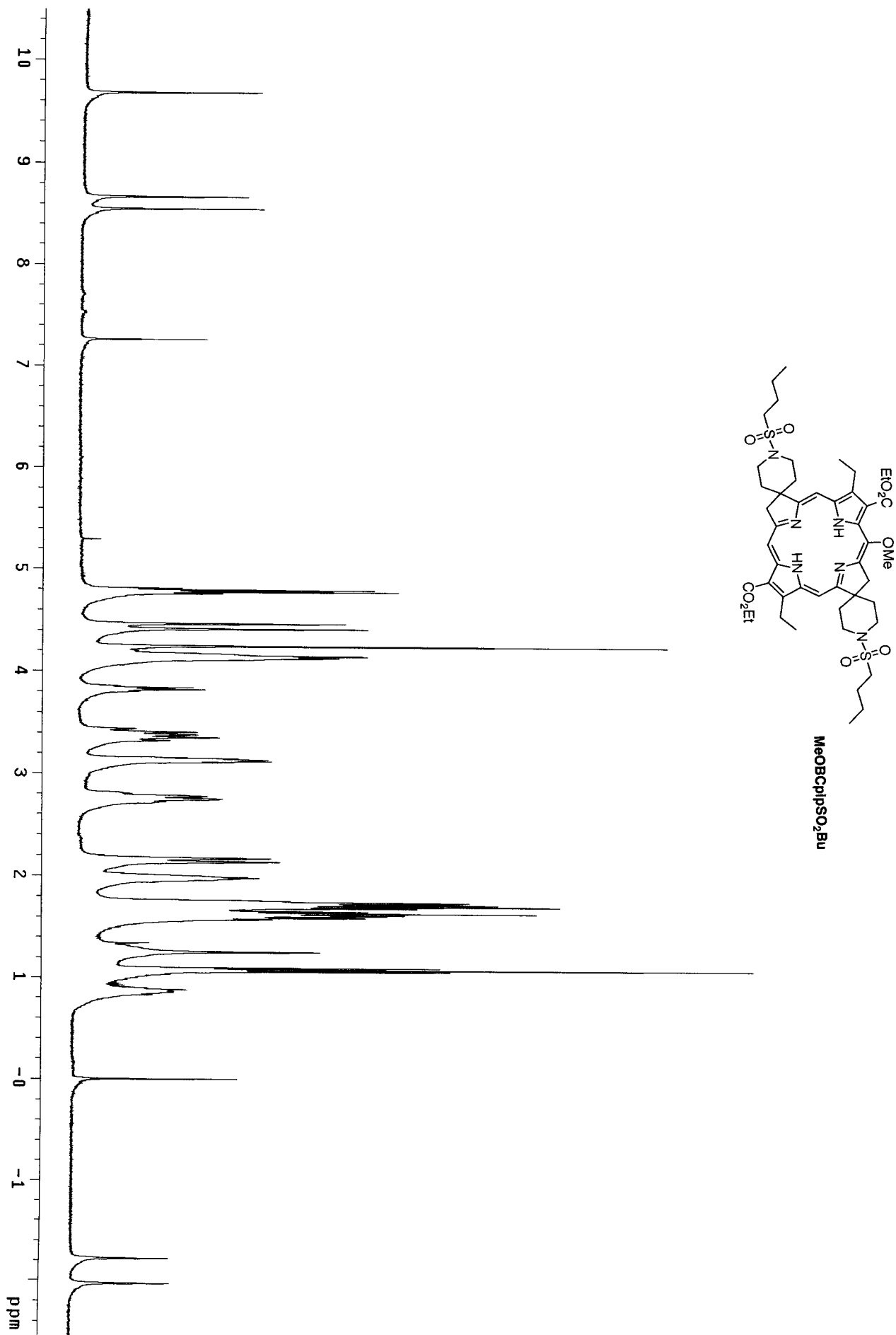
#	Name	Peaks (nm)	Abs (AU)
1		356.0	1.22660
1		736.0	1.20210
1		379.0	1.08310
1		519.0	0.34756

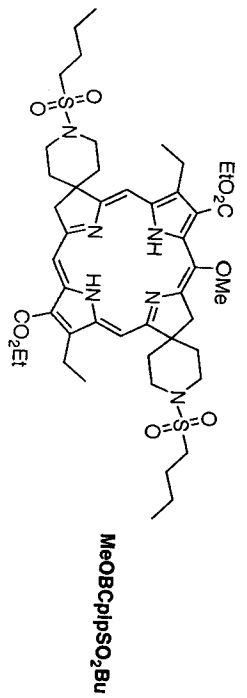
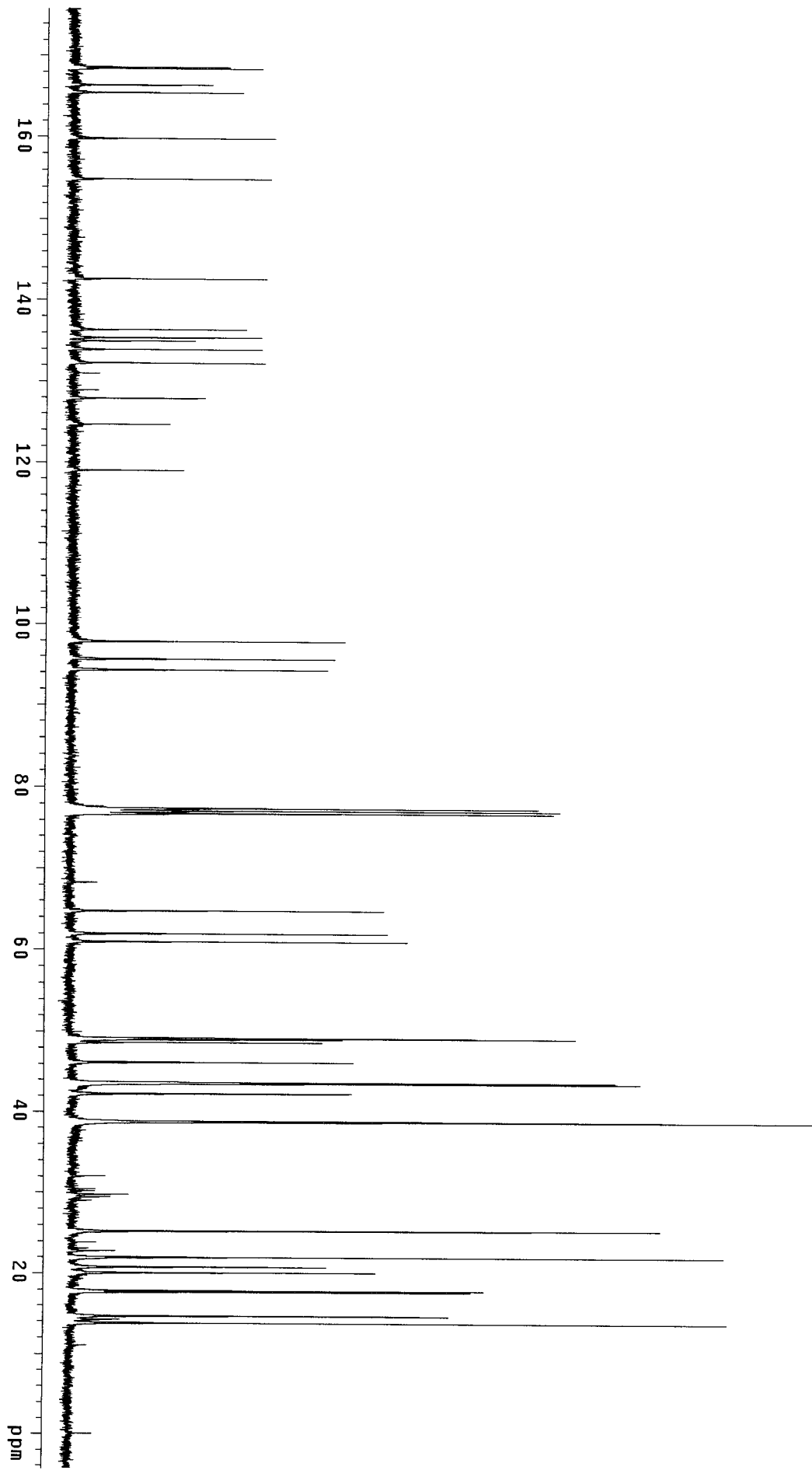
Report generated by : Lindsey Lab

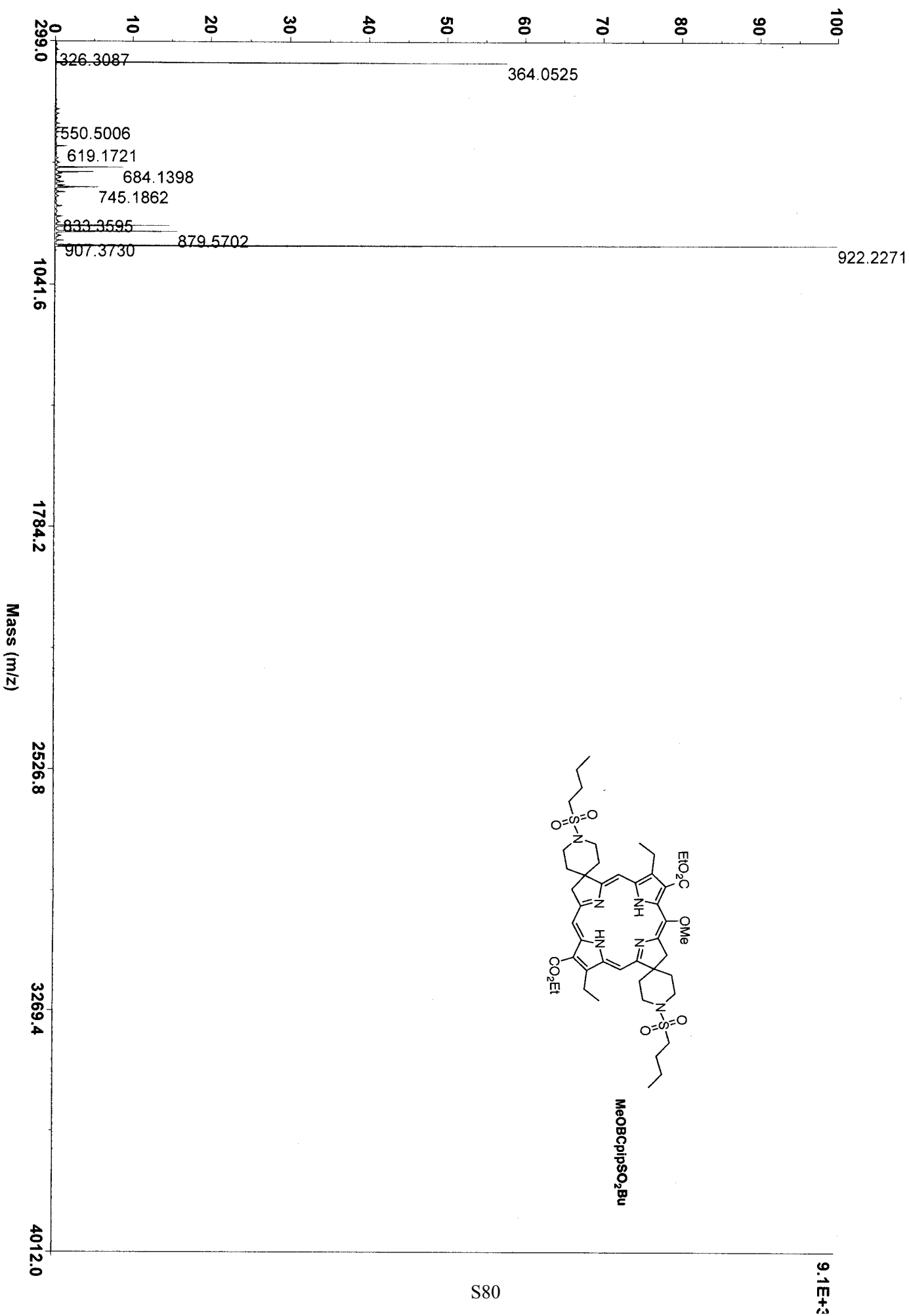
Signature:

*** End Spectrum/Peak Report ***







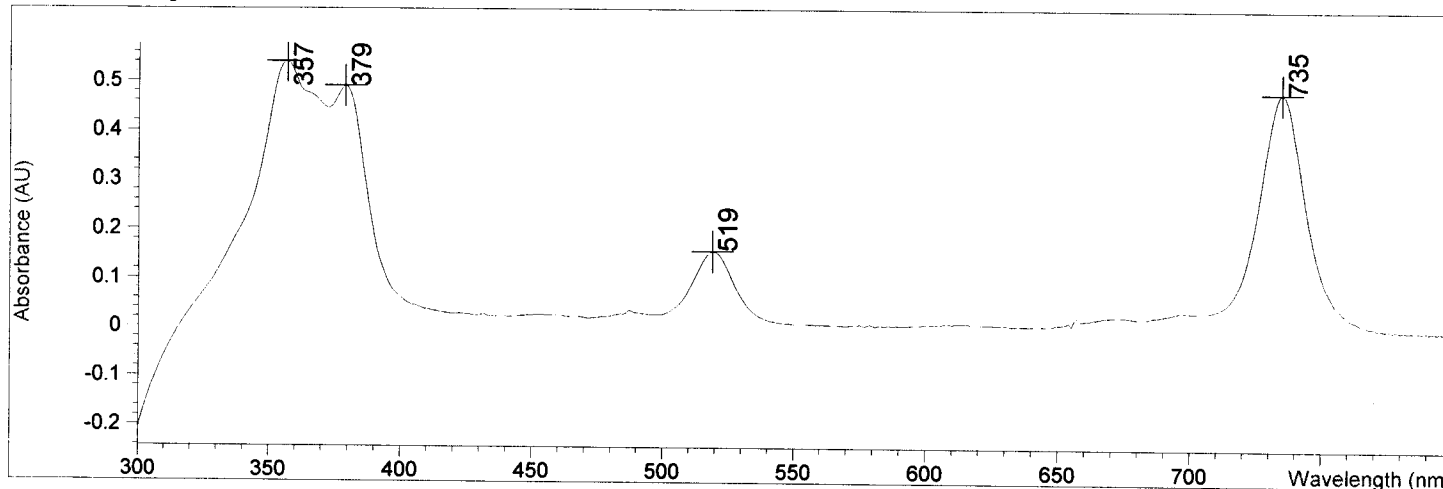


Spectrum/Peak Report

Date 12/18/2012 Time 15:41:22 Page 1 of 1

Method file : <untitled>
 Information : Default Method
 Data File : C:\Chem32\1\DATA\Ramesh\KRR250.SD Created : 7/25/12 13:33:52

Overlaid Spectra:



#	Name	Peaks (nm)	Abs (AU)
1		357.0	0.54004
1		379.0	0.49057
1		735.0	0.48123
1		519.0	0.15730

Report generated by : Lindsey Lab

Signature:

*** End Spectrum/Peak Report ***

