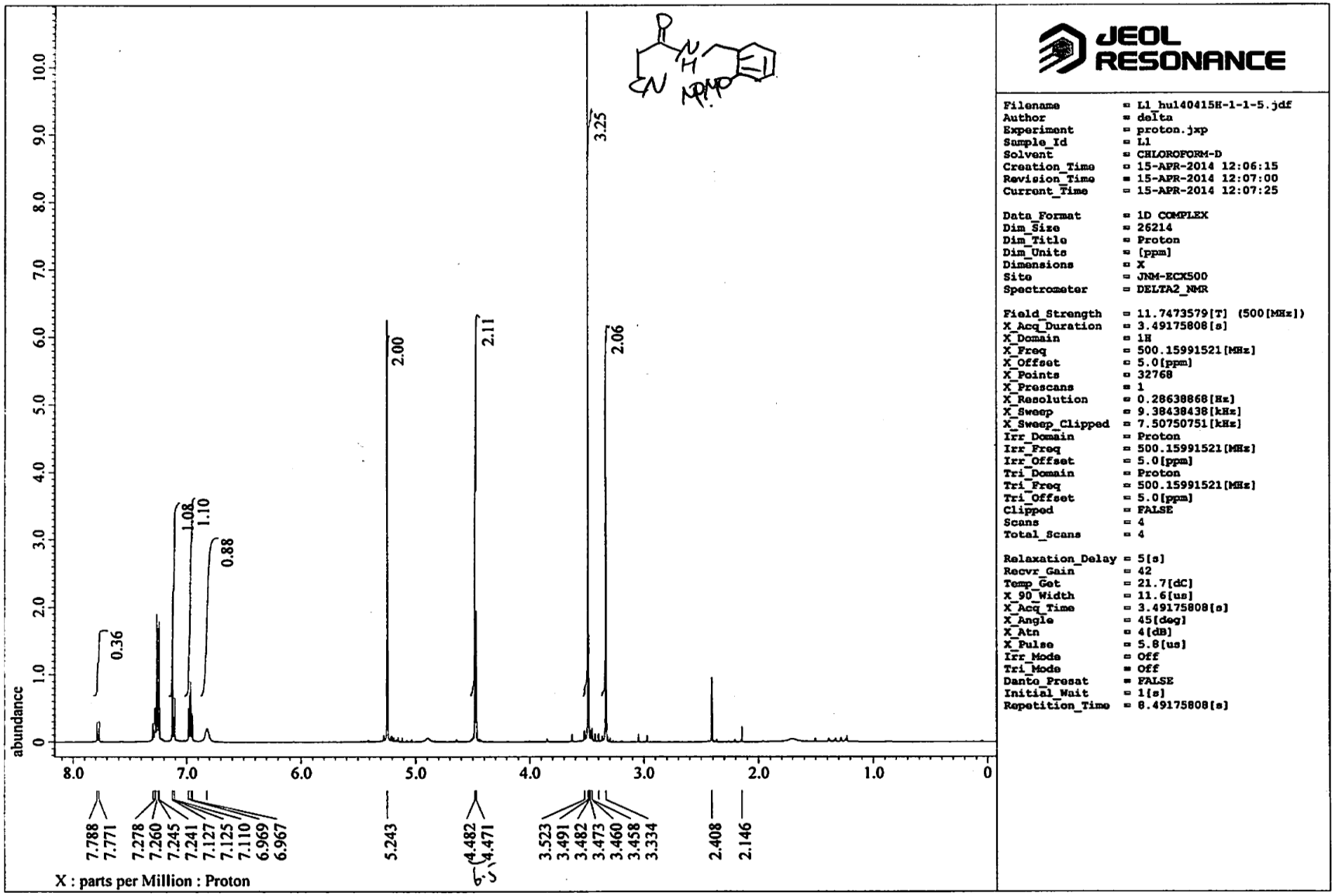
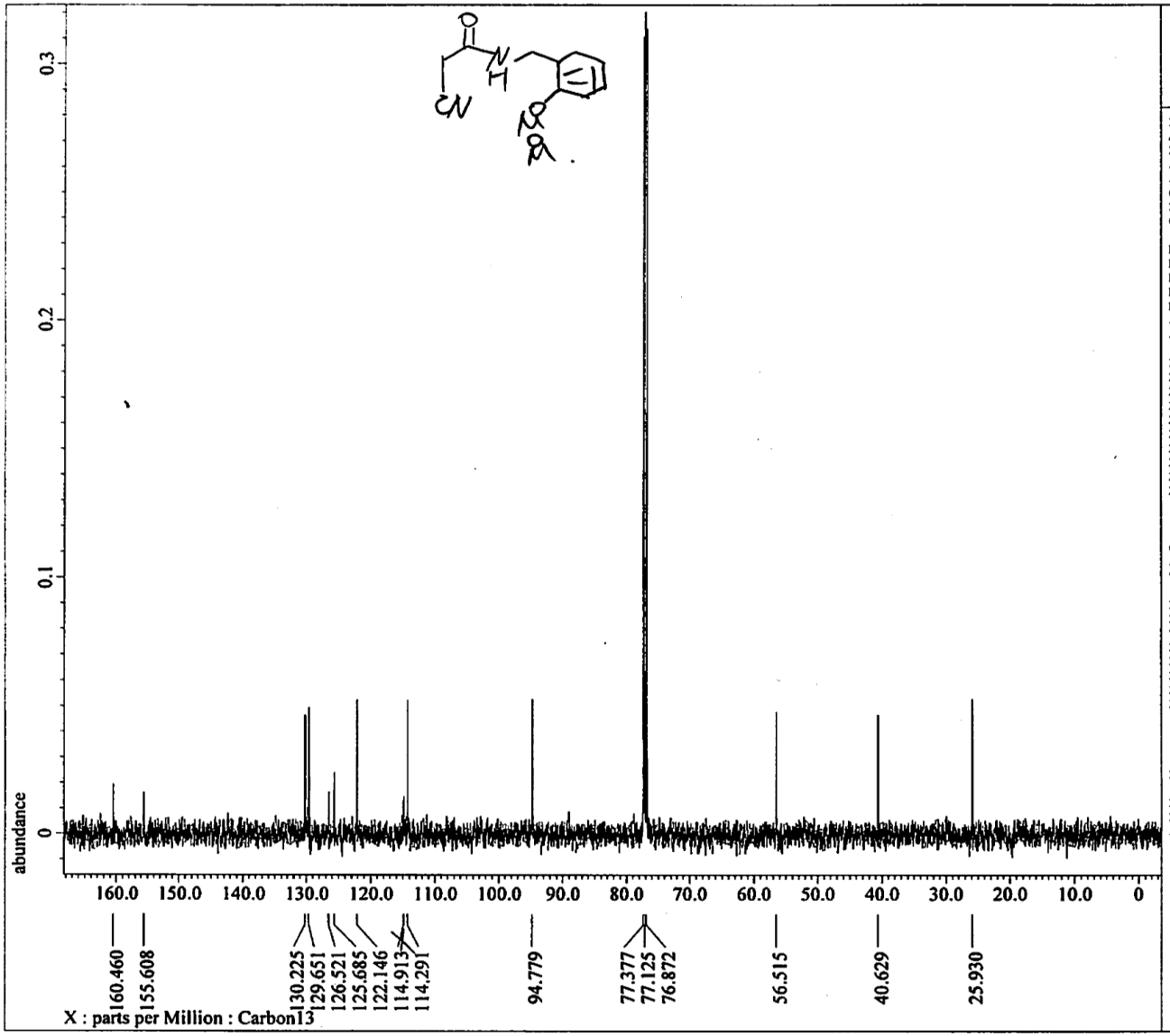
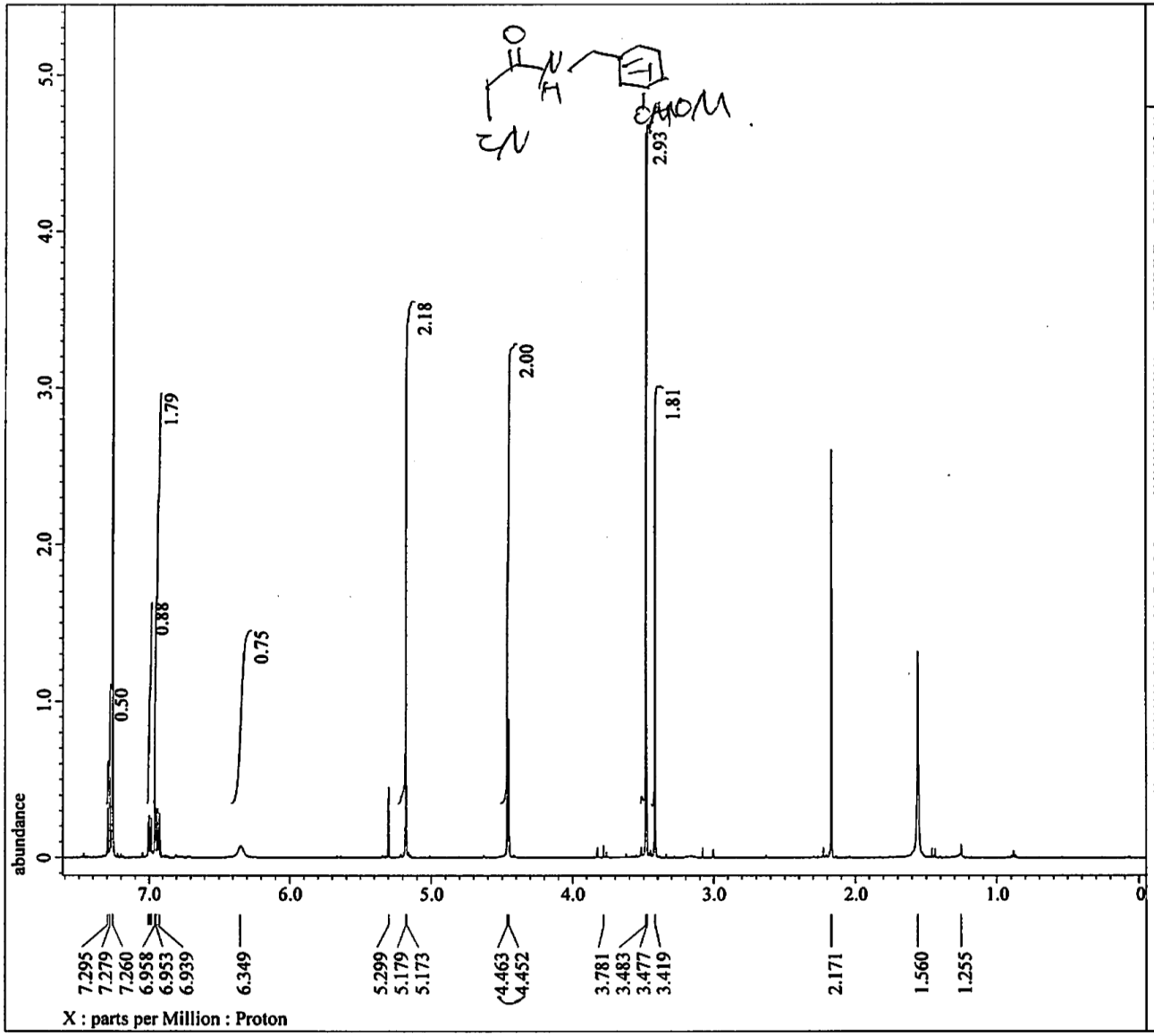




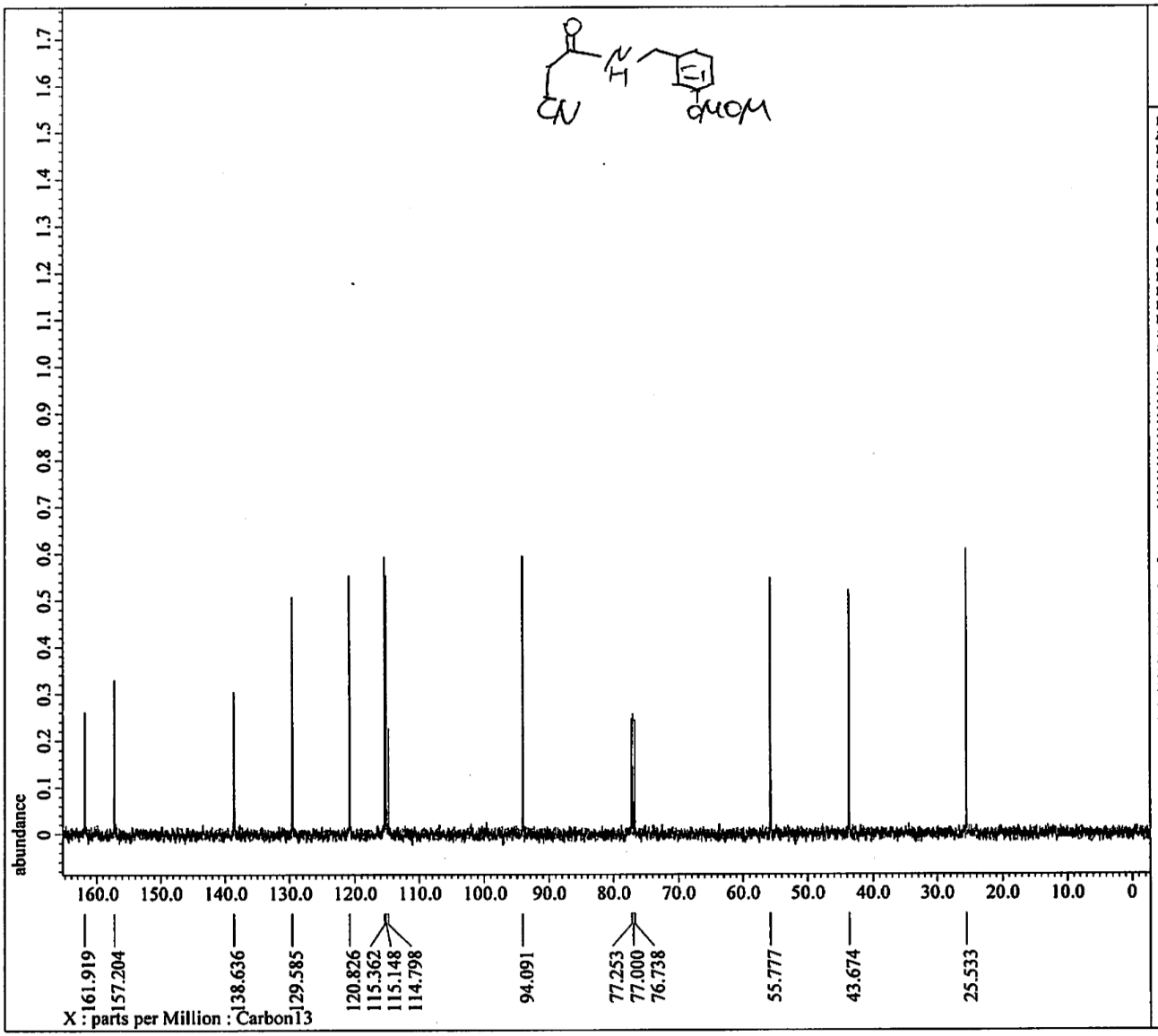
JEOL RESONANCE

Filename	= L1_hu140415C-1-1-2.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 15-APR-2014 10:30:27
Revision_Time	= 15-APR-2014 10:44:31
Current_Time	= 15-APR-2014 10:45:02
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 316
Total_Scans	= 316
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.7[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL RESONANCE

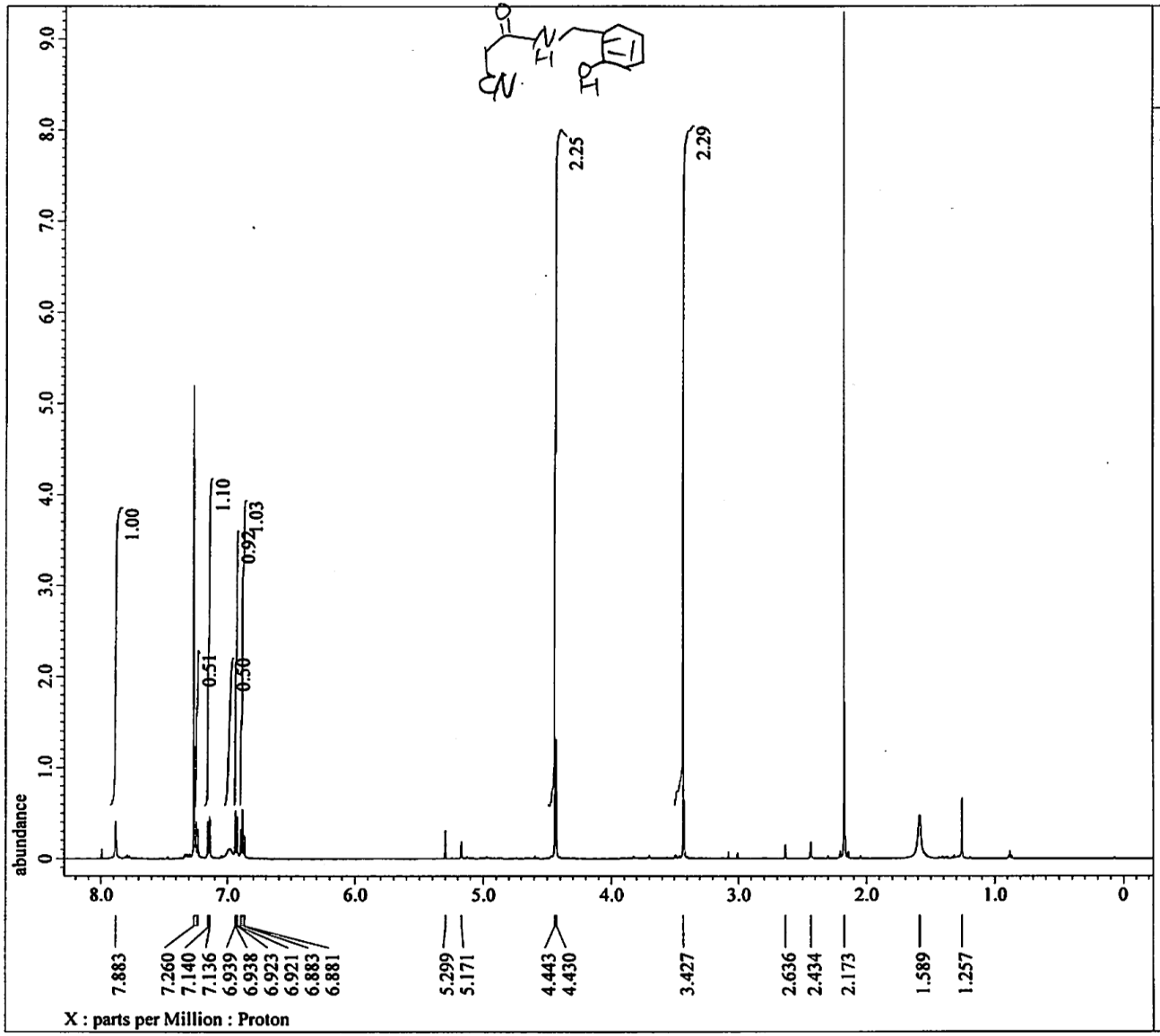
Filename	= L1_hu140117H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 17-JAN-2014 14:26:33
Revision_Time	= 17-JAN-2014 14:28:55
Current_Time	= 17-JAN-2014 14:29:18
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Get	= 22.3[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL RESONANCE

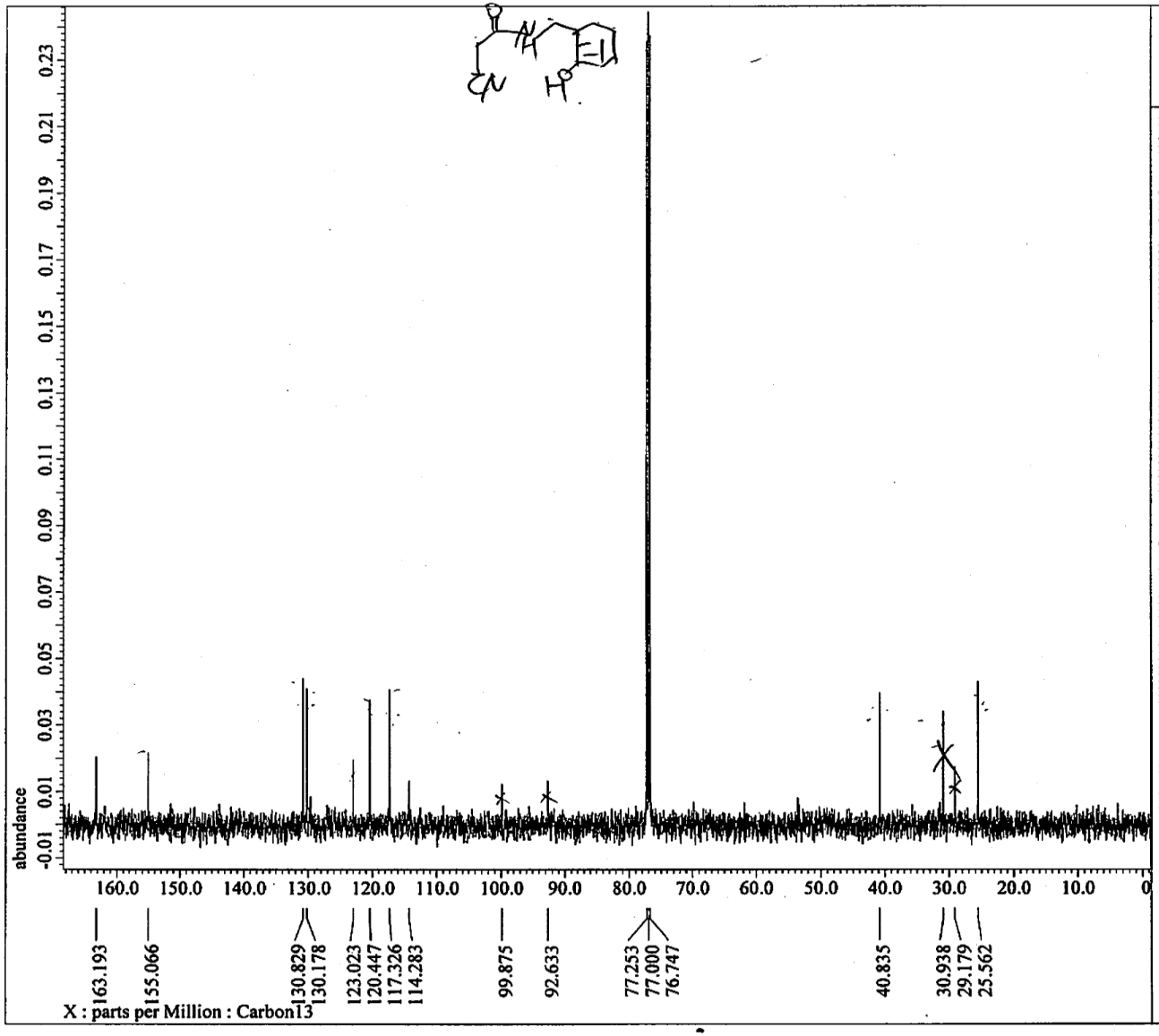
Filename	= L1_hu140120E-1-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 20-JAN-2014 09:48:37
Revision_Time	= 20-JAN-2014 09:50:24
Current_Time	= 20-JAN-2014 09:50:33
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 41
Total_Scans	= 41
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 21.3[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

D



JEOL RESONANCE

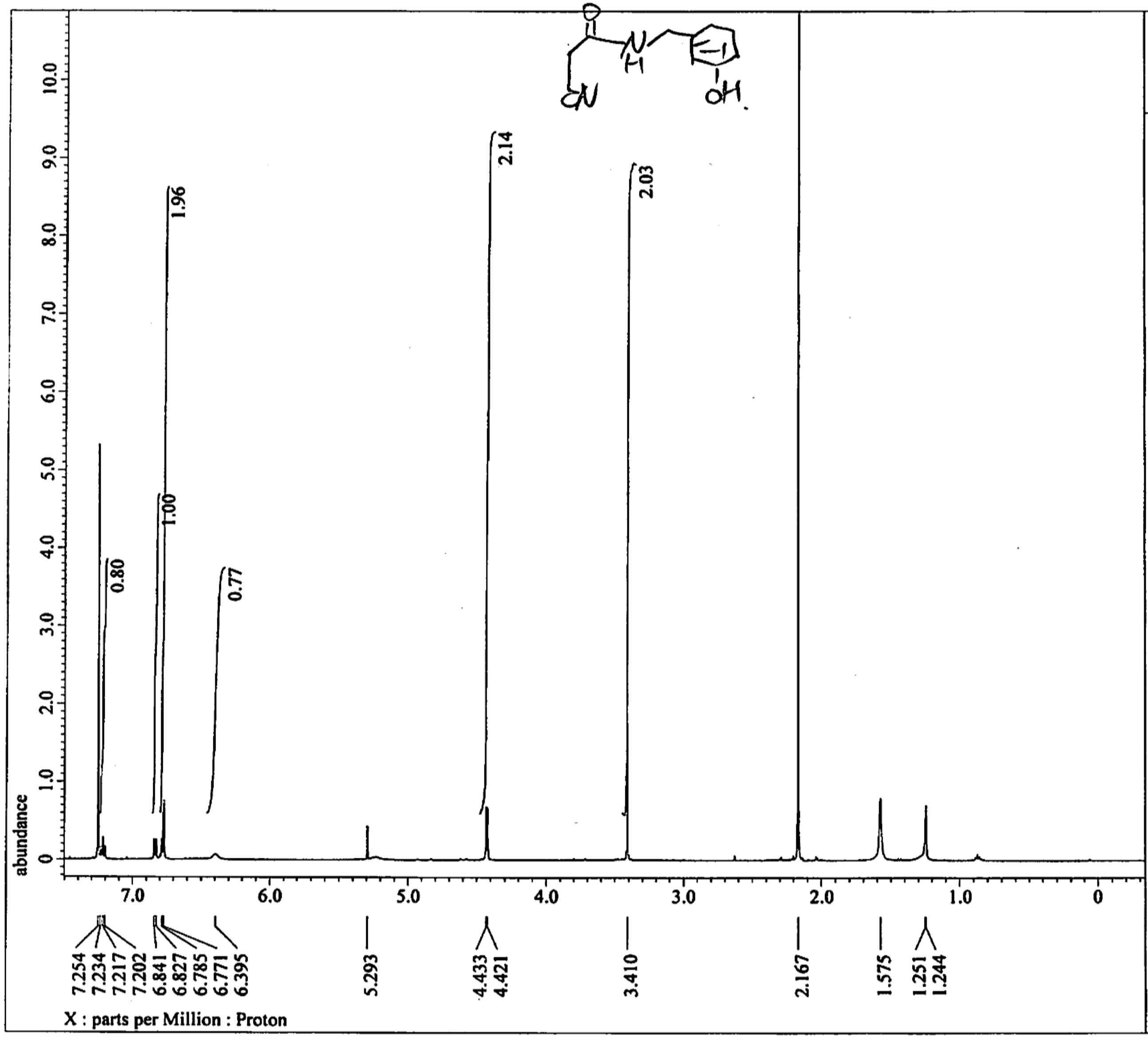
Filename	= L1_hu140228H-1-1-7.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 28-FEB-2014 11:08:40
Revision_Time	= 28-FEB-2014 11:11:13
Current_Time	= 28-FEB-2014 11:11:28
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Get	= 22.1[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL RESONANCE

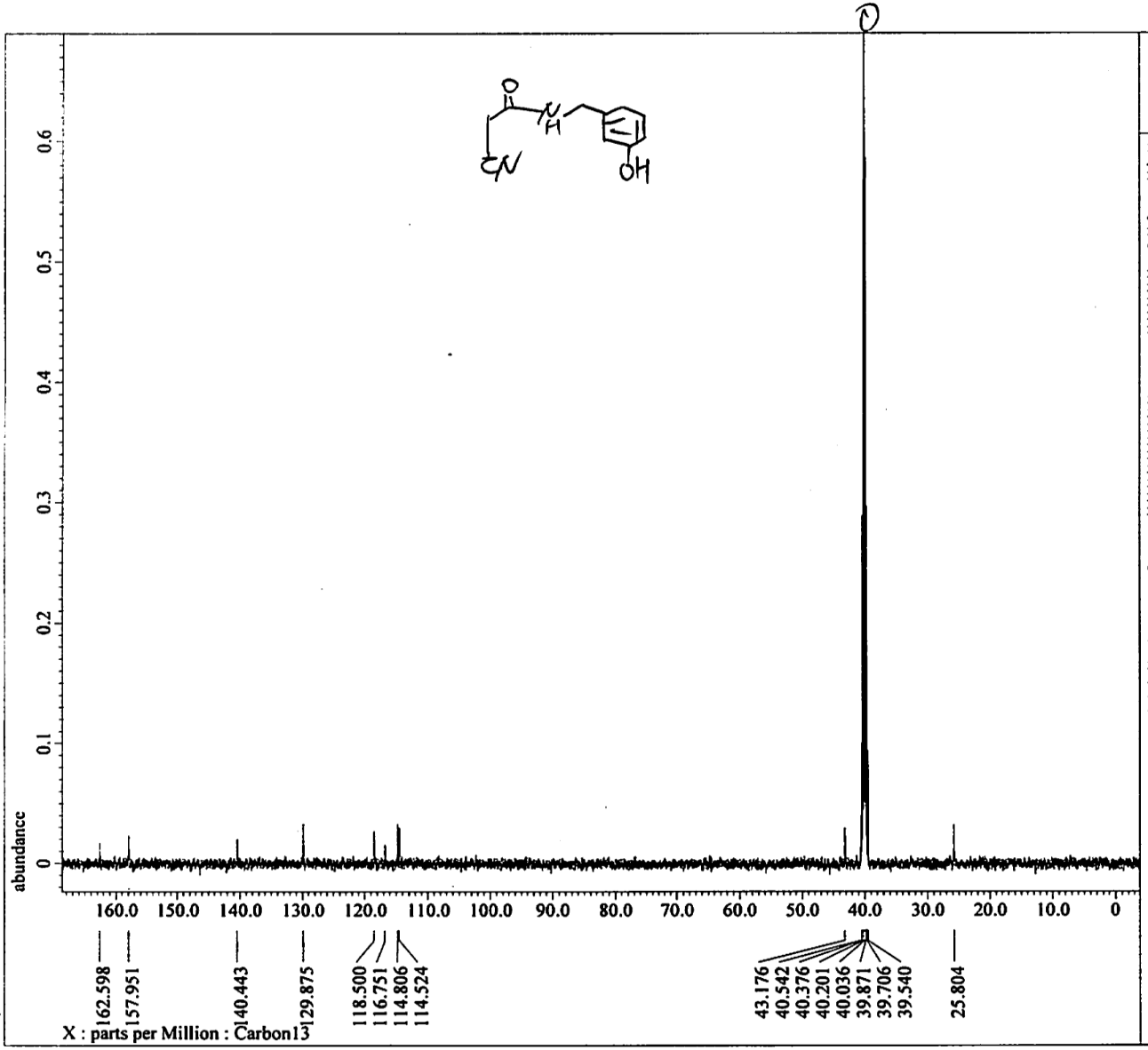
Filename	= L1_hu140228C-1-1-5.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 28-FEB-2014 12:21:19
Revision_Time	= 28-FEB-2014 12:45:07
Current_Time	= 28-FEB-2014 12:45:19
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 498
Total_Scans	= 498
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.6[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

6



JEOL RESONANCE

Filename	= L1_hu140121H-1-1-4.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 21-JAN-2014 17:51:22
Revision_Time	= 21-JAN-2014 17:53:54
Current_Time	= 21-JAN-2014 17:54:02
Comment	= kobayashi-p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Get	= 22.3[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



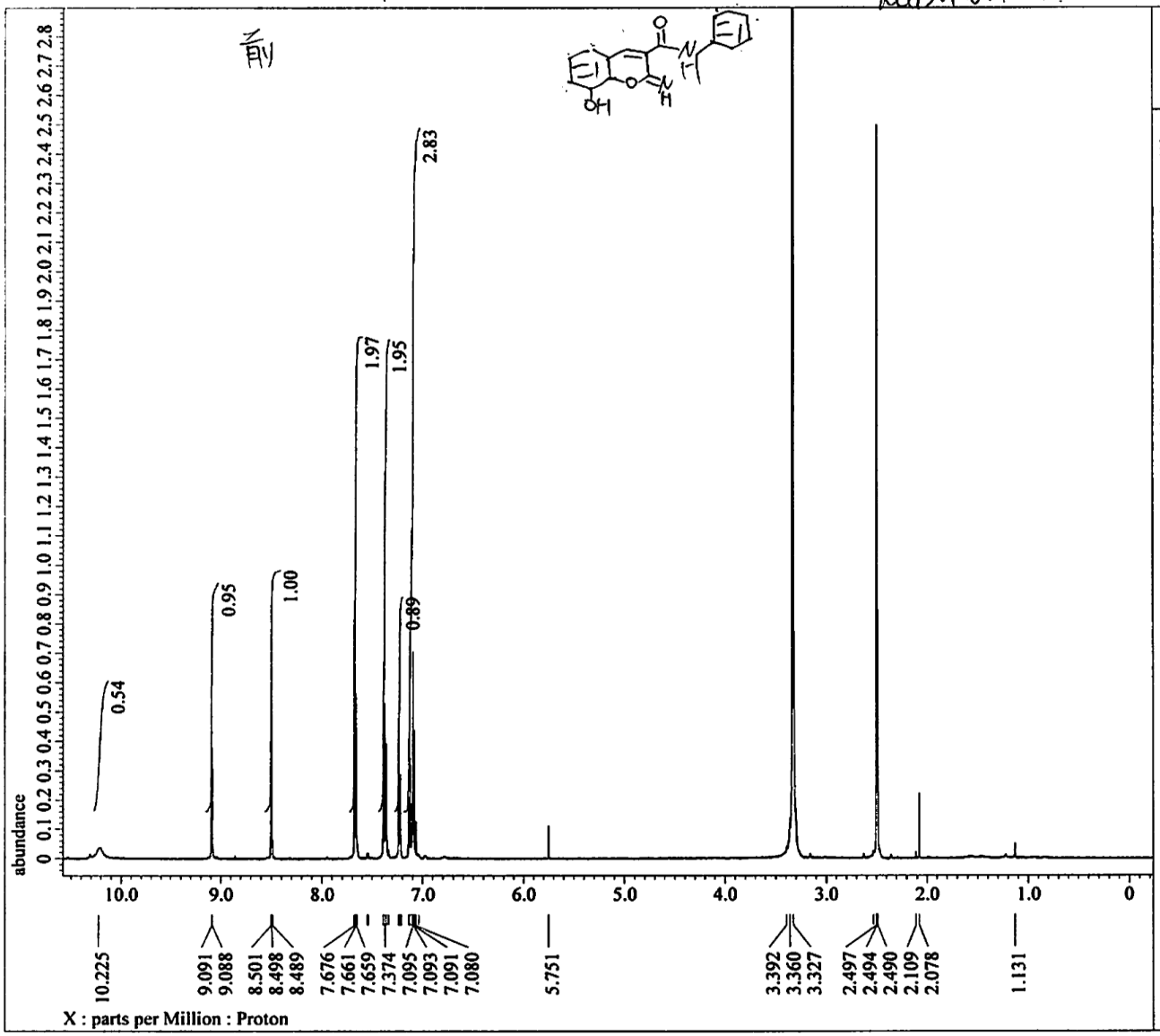
JEOL RESONANCE

Filename	= L1_hu140430C-1-1-2.jdf
Author	= dolta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 30-APR-2014 10:28:56
Revision_Time	= 30-APR-2014 10:45:22
Current_Time	= 30-APR-2014 10:45:37
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 365
Total_Scans	= 365
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 23.1[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

13a

hu131118H-1

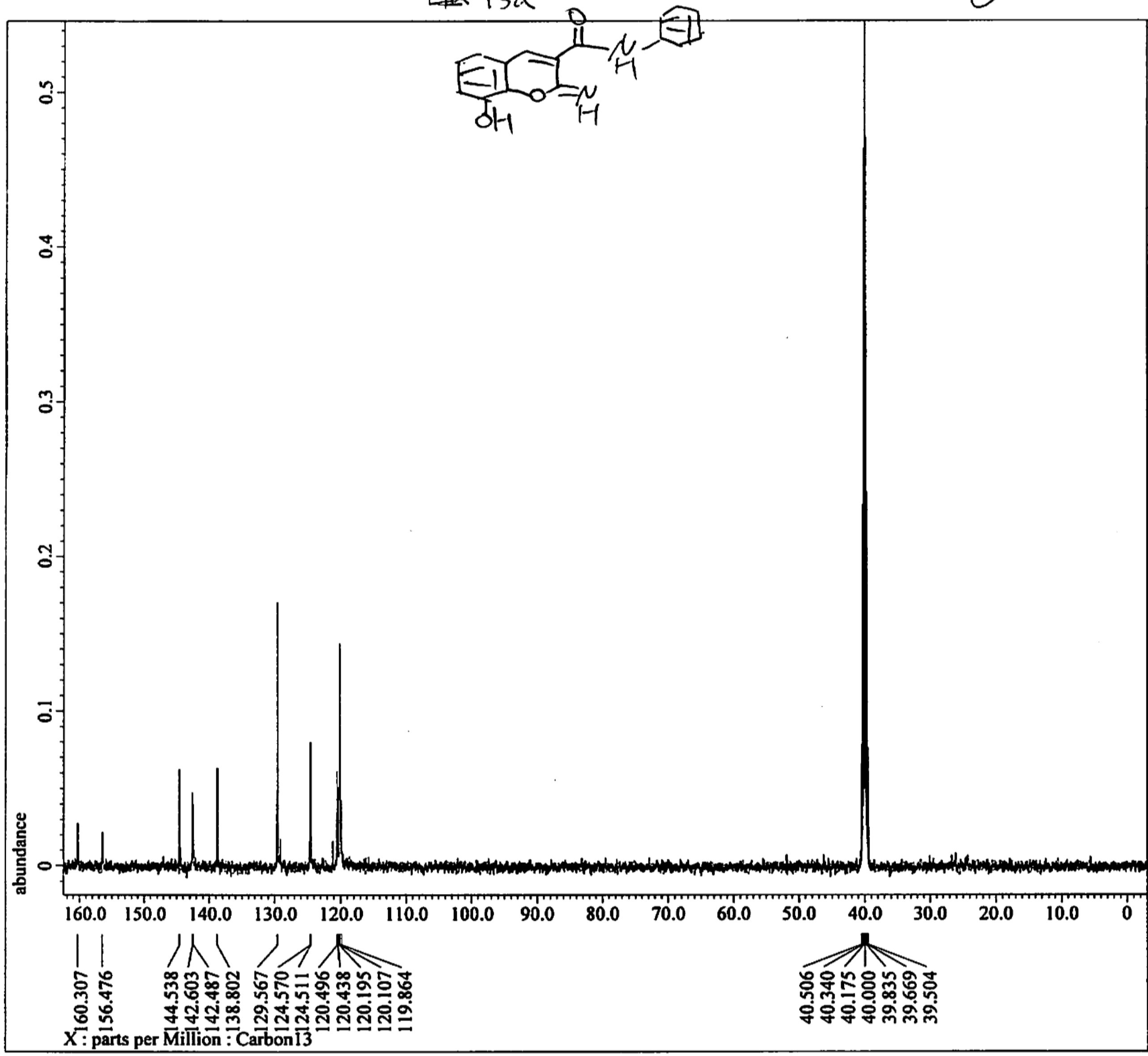
D



JEOL RESONANCE

Filename	= L1_hu131118H-2-1-6.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 18-NOV-2013 18:15:16
Revision_Time	= 18-NOV-2013 18:18:39
Current_Time	= 18-NOV-2013 18:18:56
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 7
Total_Scans	= 7
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Get	= 20.9[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

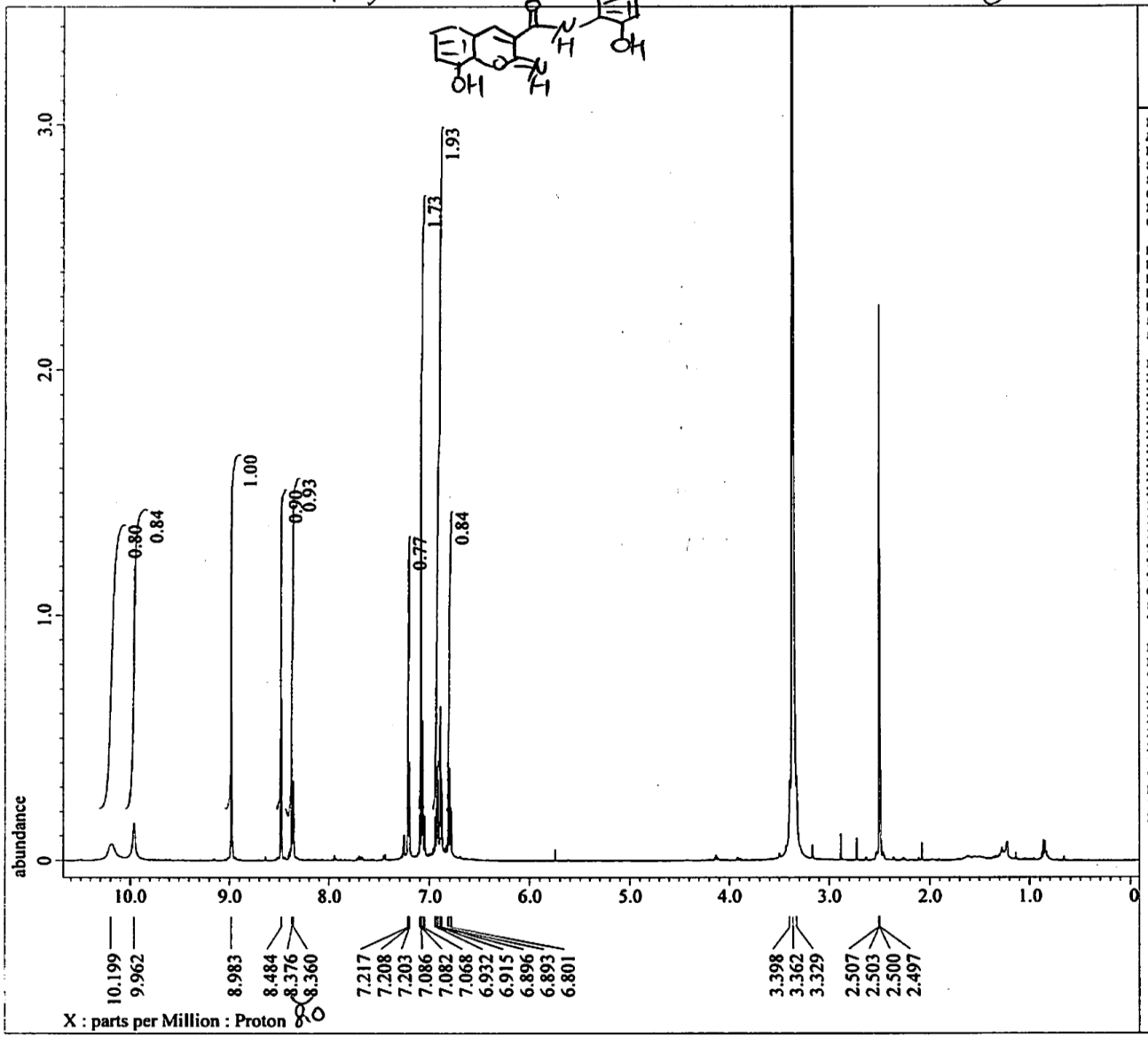
13a



JEOL RESONANCE

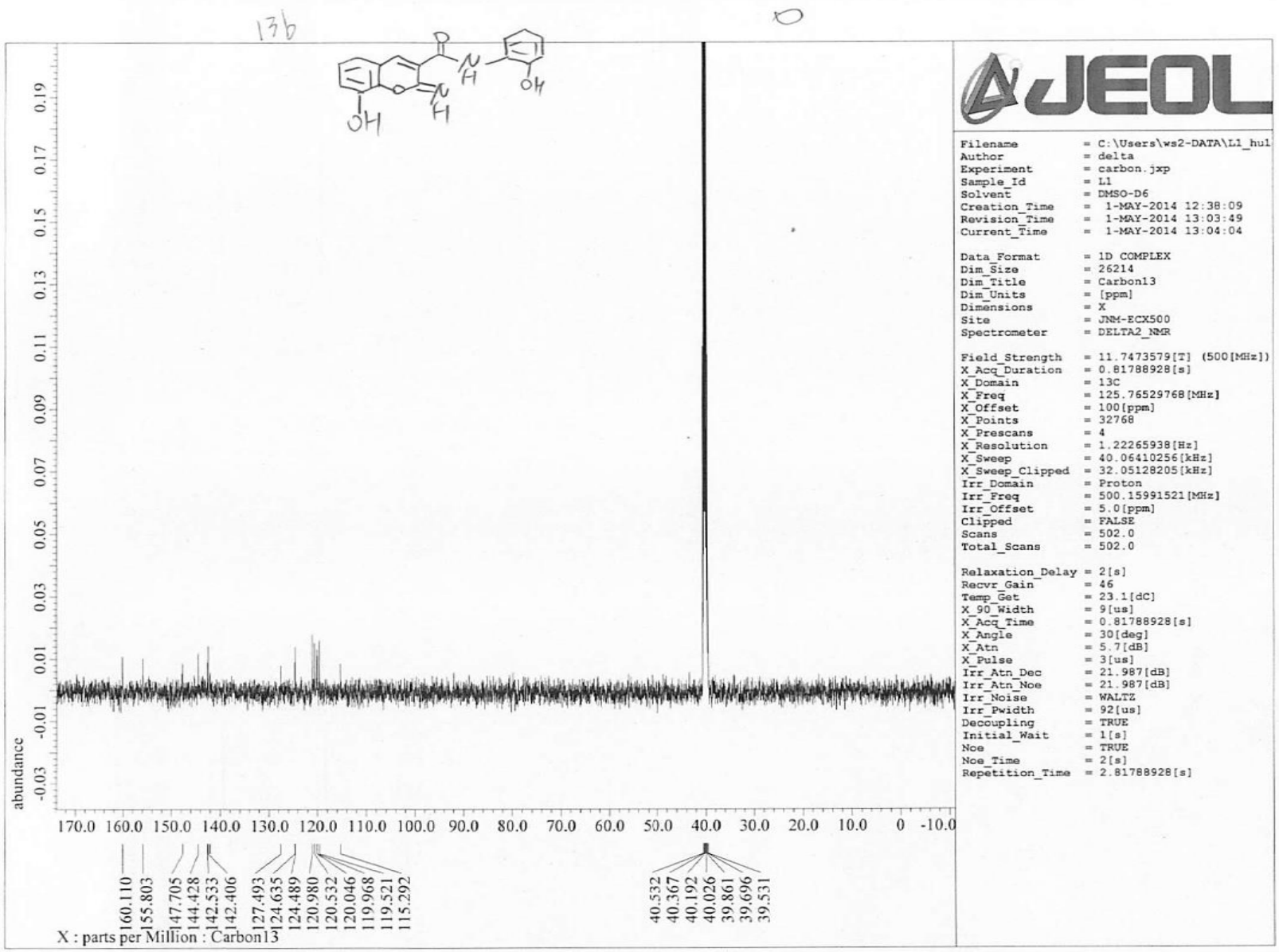
Filename	= L1_hu140205C-3-1-5.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 5-FEB-2014 14:16:21
Revision_Time	= 5-FEB-2014 14:34:09
Current_Time	= 5-FEB-2014 14:34:38
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 561
Total_Scans	= 561
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 23[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

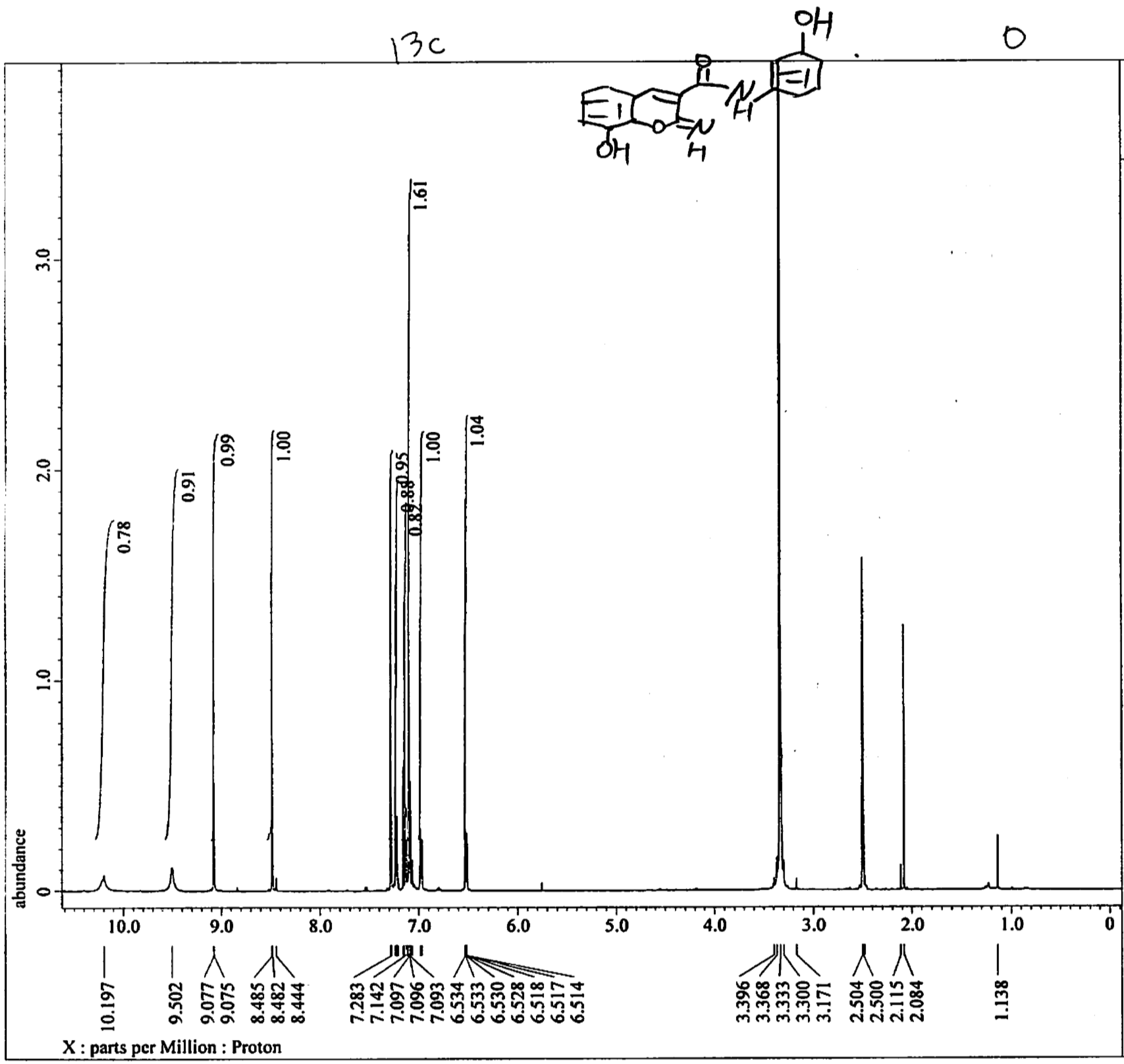
13b



JEOL RESONANCE

Filename	= L1_hul40501H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 1-MAY-2014 15:37:17
Revision_Time	= 1-MAY-2014 15:39:09
Current_Time	= 1-MAY-2014 15:39:27
Data_Format	= 1D COMPLEX
Dim_Size	= 13107
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 1.74587904[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 16384
X_Prescans	= 1
X_Resolution	= 0.57277737[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 38
Temp_Get	= 22.7[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 1.74587904[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 6.74587904[s]


13b
OH
N
H
O
N
H
OH
abundance
0.19
0.17
0.15
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
-0.03
170.0 160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0 -10.0
160.110
155.803
147.705
144.428
142.533
142.406
127.493
124.635
124.489
120.980
120.532
120.046
119.968
119.521
115.292
40.532
40.367
40.192
40.026
39.861
39.696
39.531
X : parts per Million : Carbon13
JEOL
Filename = C:\Users\ws2-DATA\L1_hul
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 1-MAY-2014 12:38:09
Revision_Time = 1-MAY-2014 13:03:49
Current_Time = 1-MAY-2014 13:04:04
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 502.0
Total_Scans = 502.0
Relaxation_Delay = 2[s]
Recvr_Gain = 46
Temp_Get = 23.1[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 2[s]
Repetition_Time = 2.81788928[s]

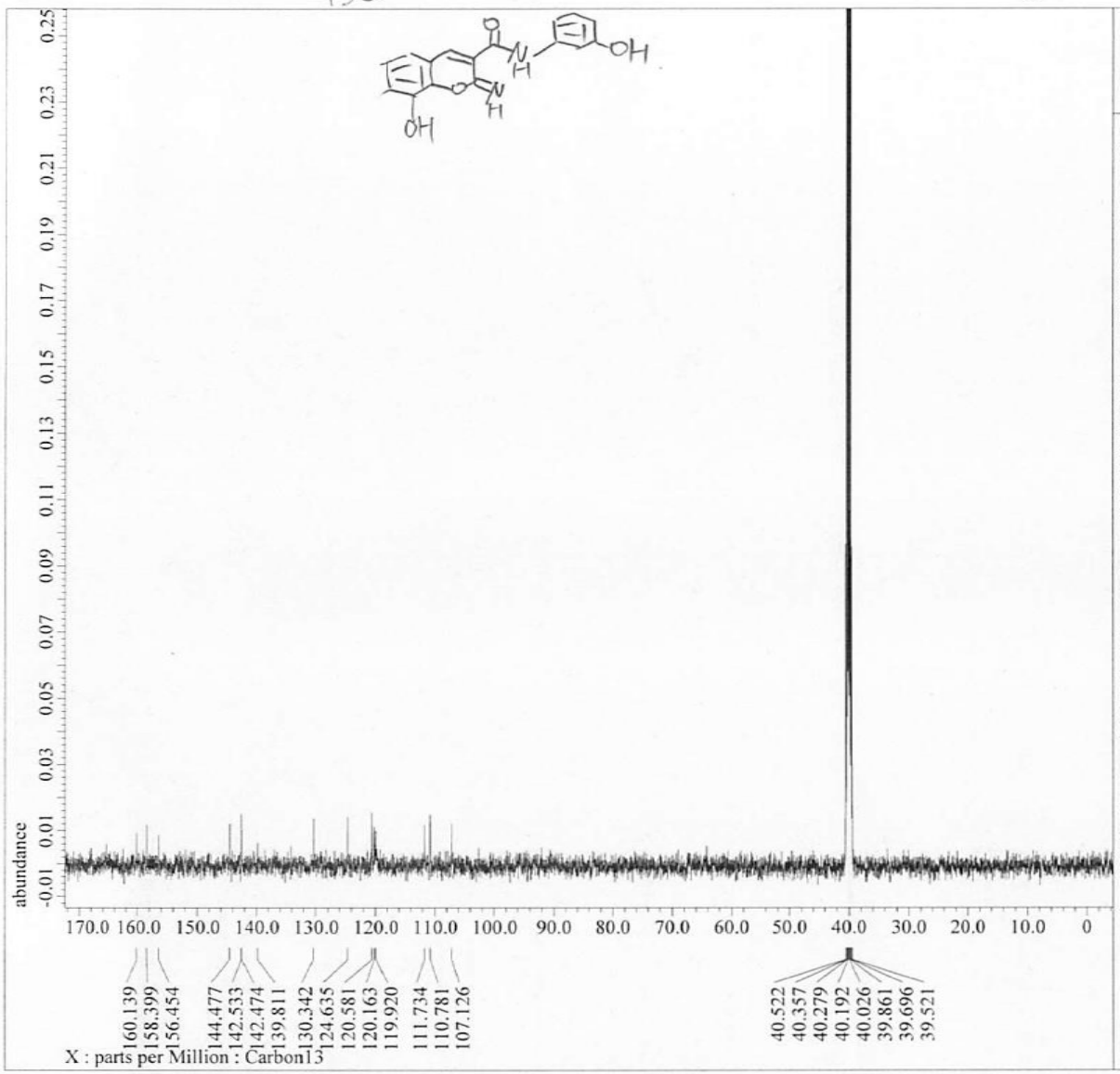


JEOL RESONANCE

Filename	= L1_hu131129H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 29-NOV-2013 12:24:28
Revision_Time	= 29-NOV-2013 12:27:34
Current_Time	= 29-NOV-2013 12:27:54
Comment	= 2-p.43-Fr.22-46
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 50
Temp_Get	= 22.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

13C

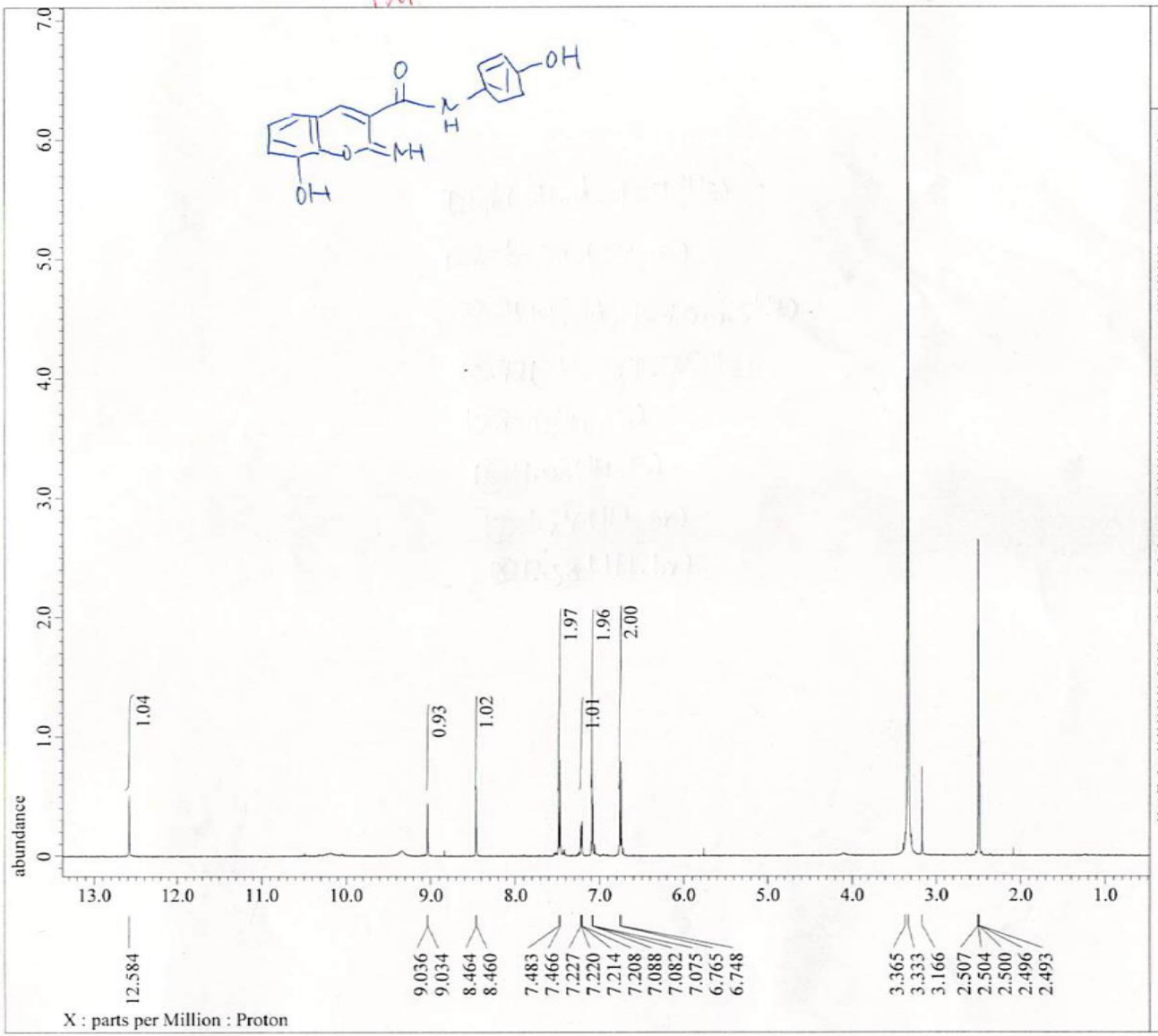
D



JEOL

Filename	= C:\Users\ws2-DATA\L1_hul
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 7-MAY-2014 10:27:12
Revision_Time	= 7-MAY-2014 11:02:21
Current_Time	= 7-MAY-2014 11:02:49
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 658
Total_Scans	= 658
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

13d

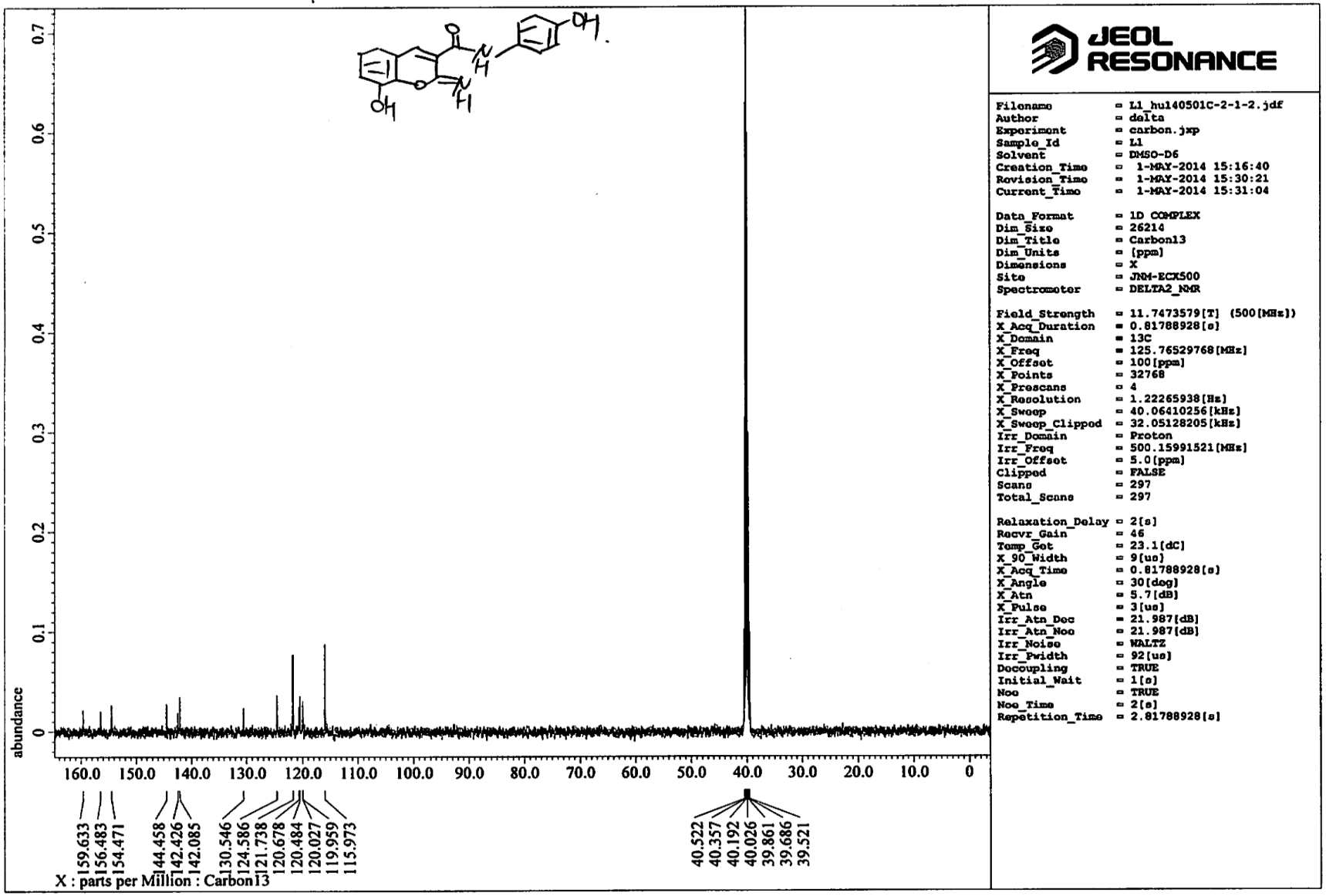


JEOL RESONANCE

Filename	= L1_ifuku20131115-H01-1-4.j
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 15-NOV-2013 13:25:42
Revision_Time	= 15-NOV-2013 13:31:04
Current_Time	= 15-NOV-2013 13:31:54
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 2.61881856[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.38185158[Hz]
X_Sweep	= 12.51251251[kHz]
X_Sweep_Clipped	= 10.01001001[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 4
Total_Scans	= 4
Relaxation_Delay	= 5[s]
Recvr_Gain	= 52
Temp_Get	= 21.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 2.61881856[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 7.61881856[s]

13d

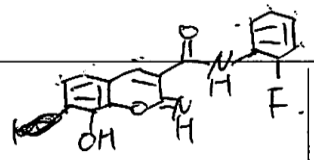
D



JEOL RESONANCE

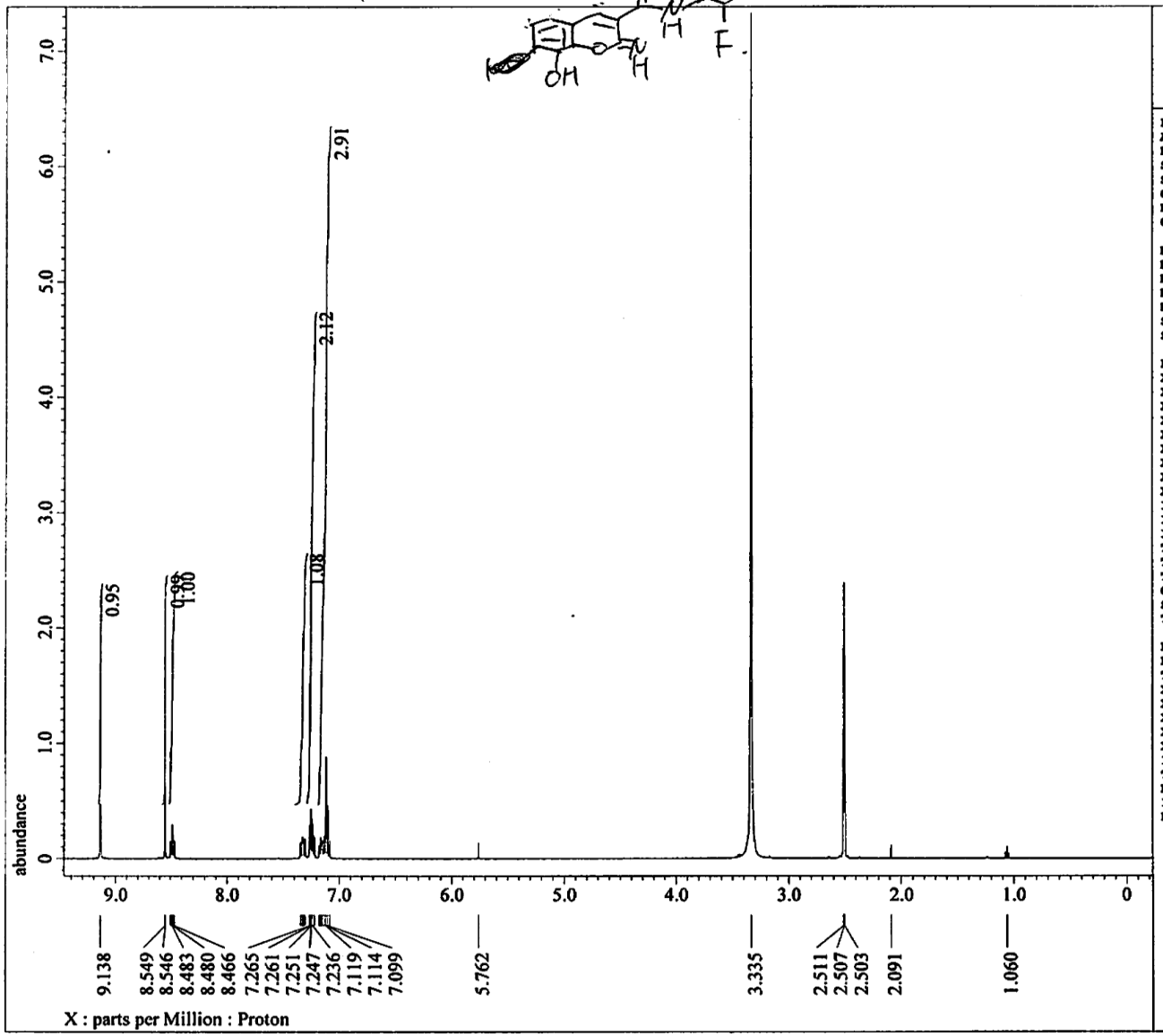
Filename	= L1_hu140501C-2-1-2.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 1-MAY-2014 15:16:40
Revision_Time	= 1-MAY-2014 15:30:21
Current_Time	= 1-MAY-2014 15:31:04
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 297
Total_Scans	= 297
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 23.1[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

13e



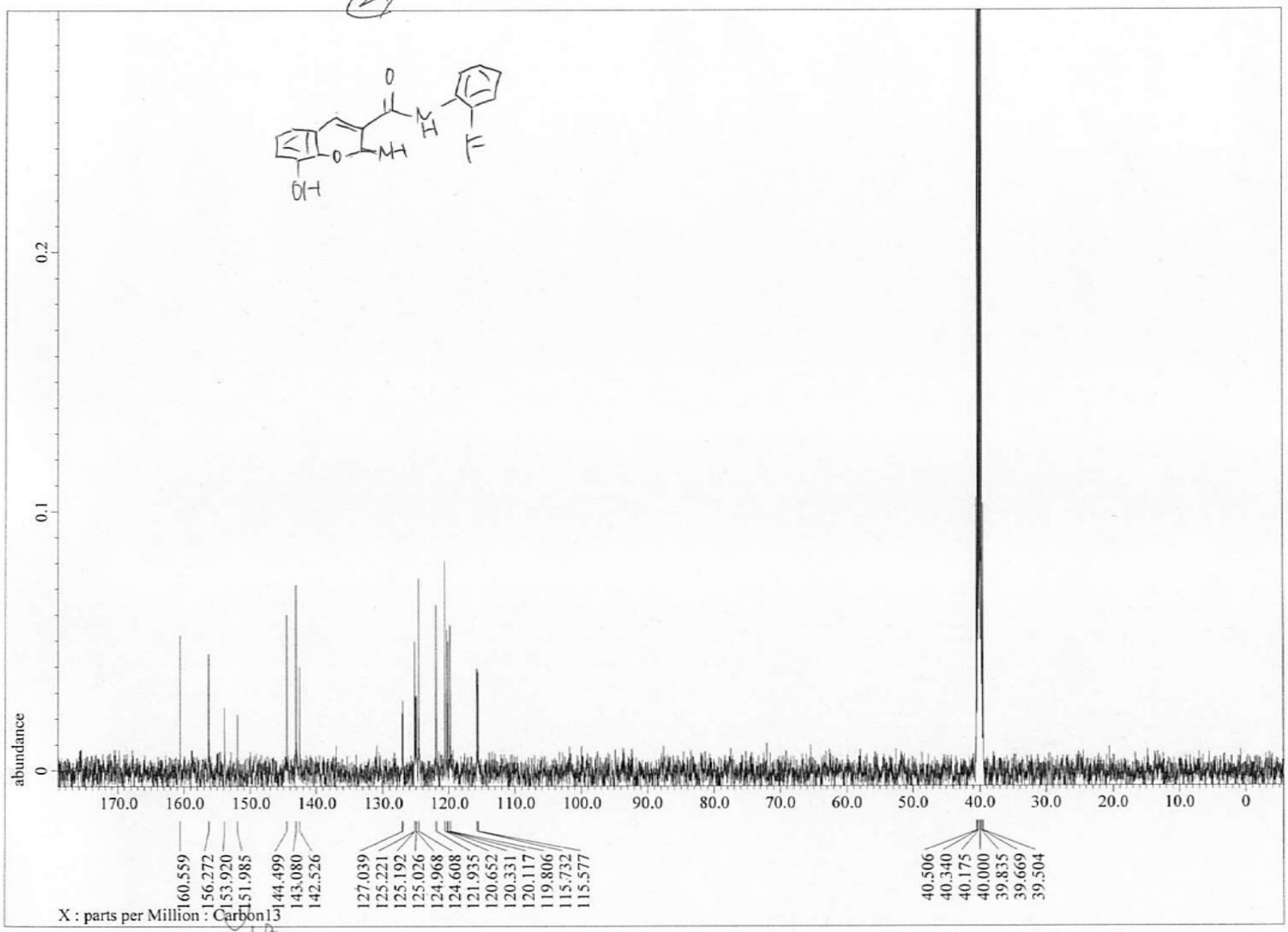
CBR-5

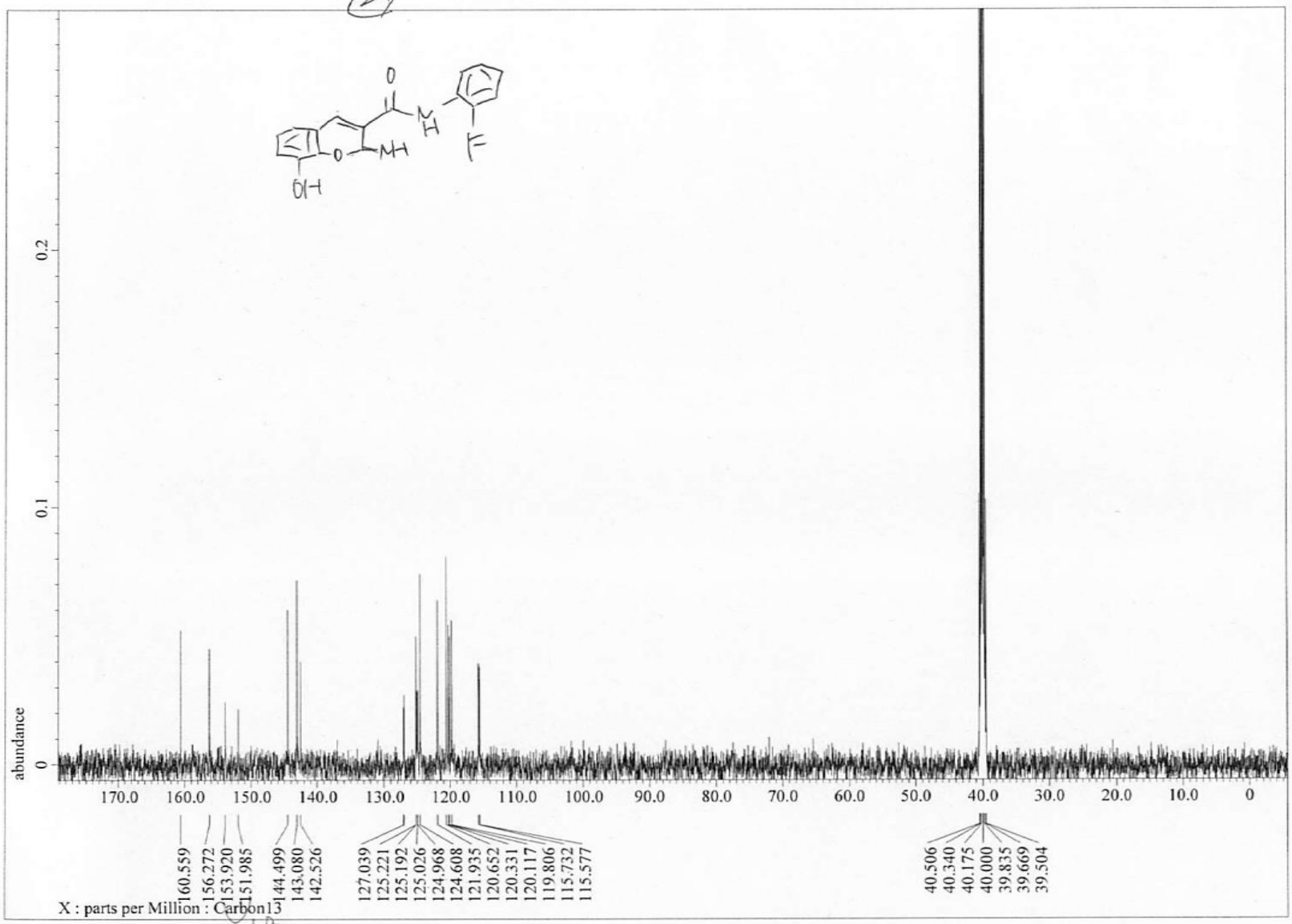
O



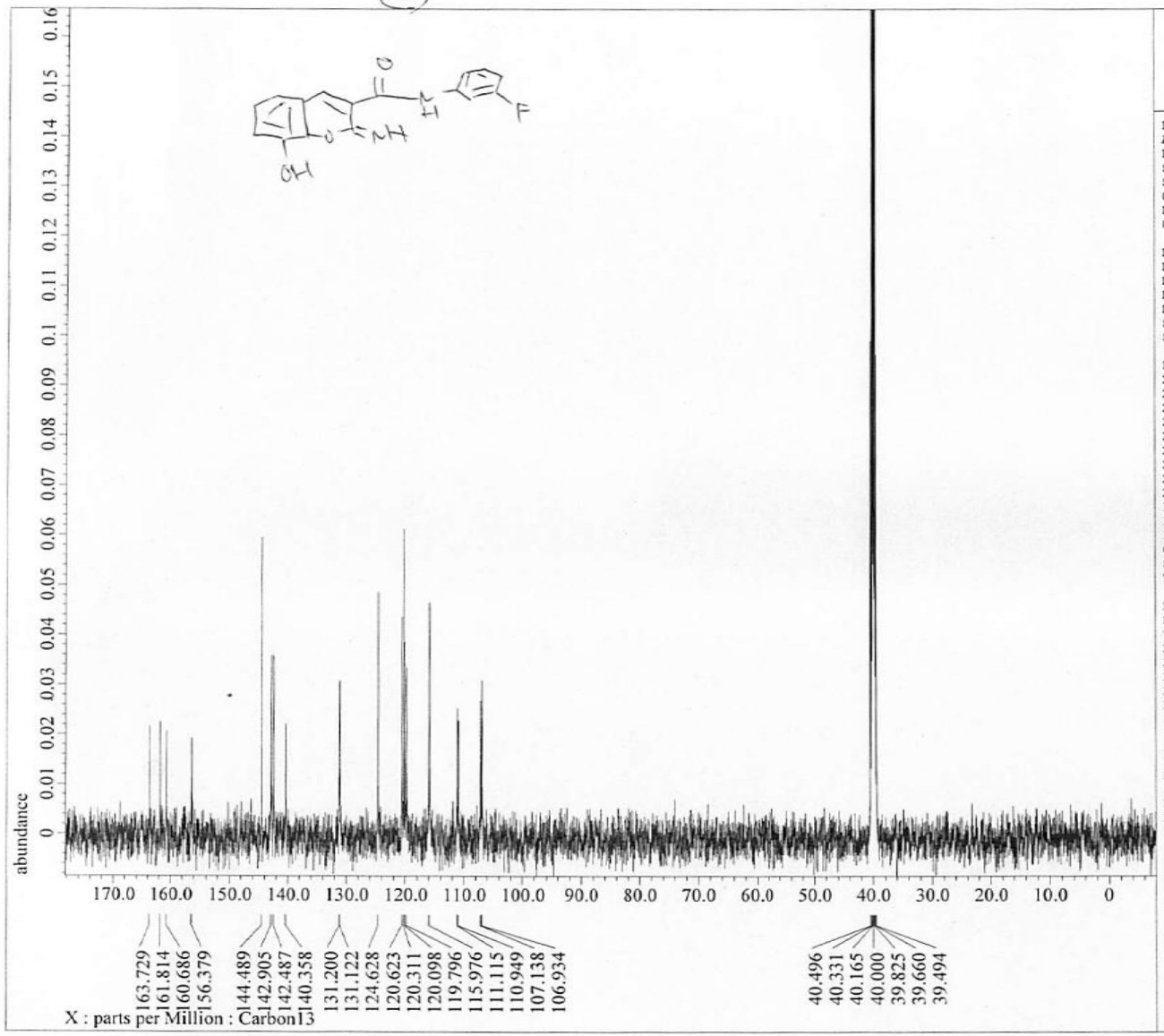
JEOL RESONANCE

Filename	= L1_hu131122B-1-1-4.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 22-NOV-2013 14:43:37
Revision_Time	= 22-NOV-2013 14:48:42
Current_Time	= 22-NOV-2013 14:48:56
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Set	= 22.5[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]


abundance
0
0.1
0.2
170.0
160.0
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0
160.559
156.272
153.920
151.985
144.499
143.080
142.526
127.039
125.221
125.192
125.026
124.968
124.608
121.935
120.652
120.331
120.117
119.806
115.732
115.577
40.506
40.340
40.175
40.000
39.835
39.669
39.504
X : parts per Million : Carbon13

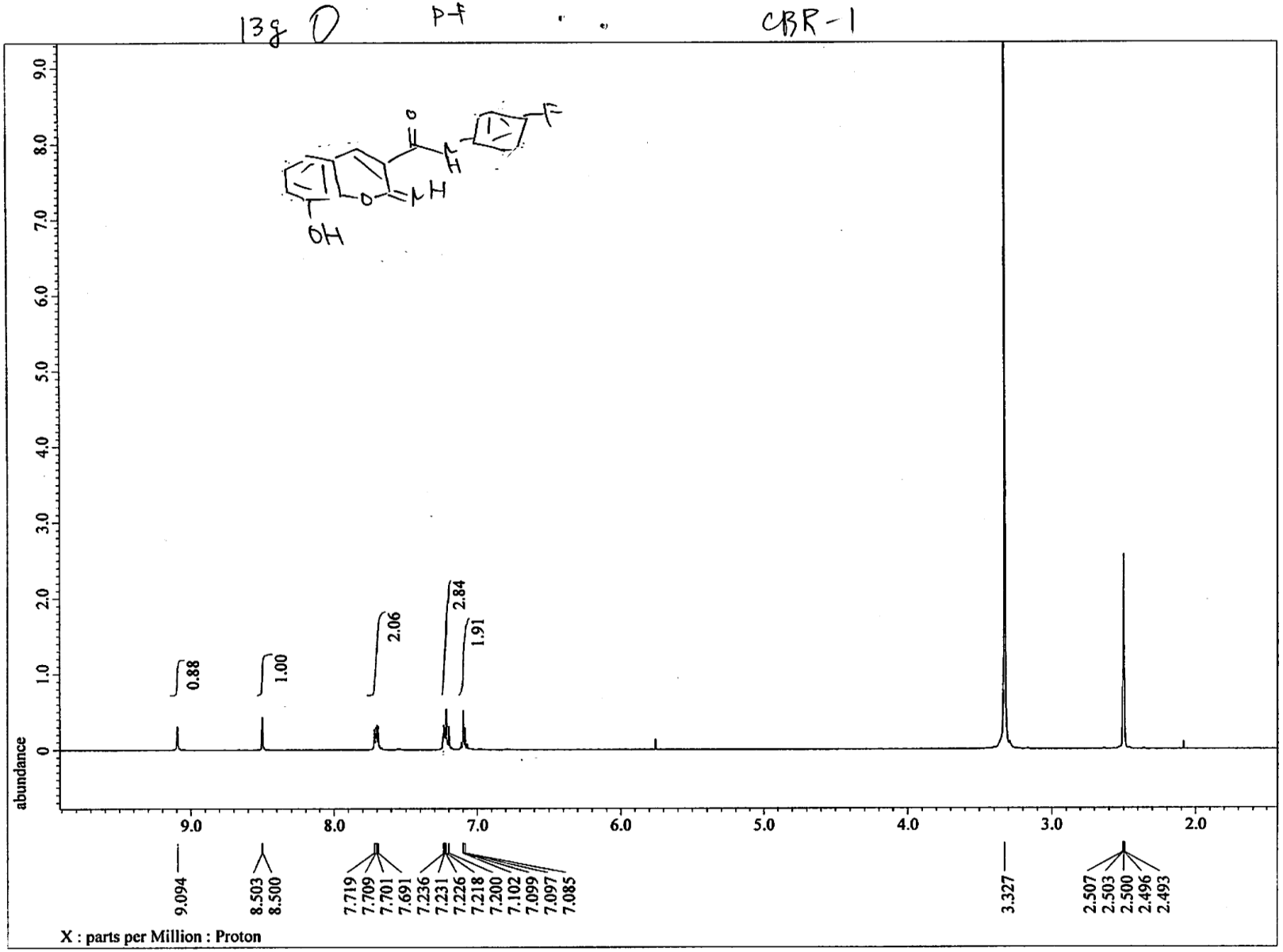

abundance
0
0.1
0.2
170.0
160.0
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0
160.559
156.272
153.920
151.985
144.499
143.080
142.526
127.039
125.221
125.192
125.026
124.968
124.608
121.935
120.652
120.331
120.117
119.806
115.732
115.577
40.506
40.340
40.175
40.000
39.835
39.669
39.504
X : parts per Million : Carbon13

(21)

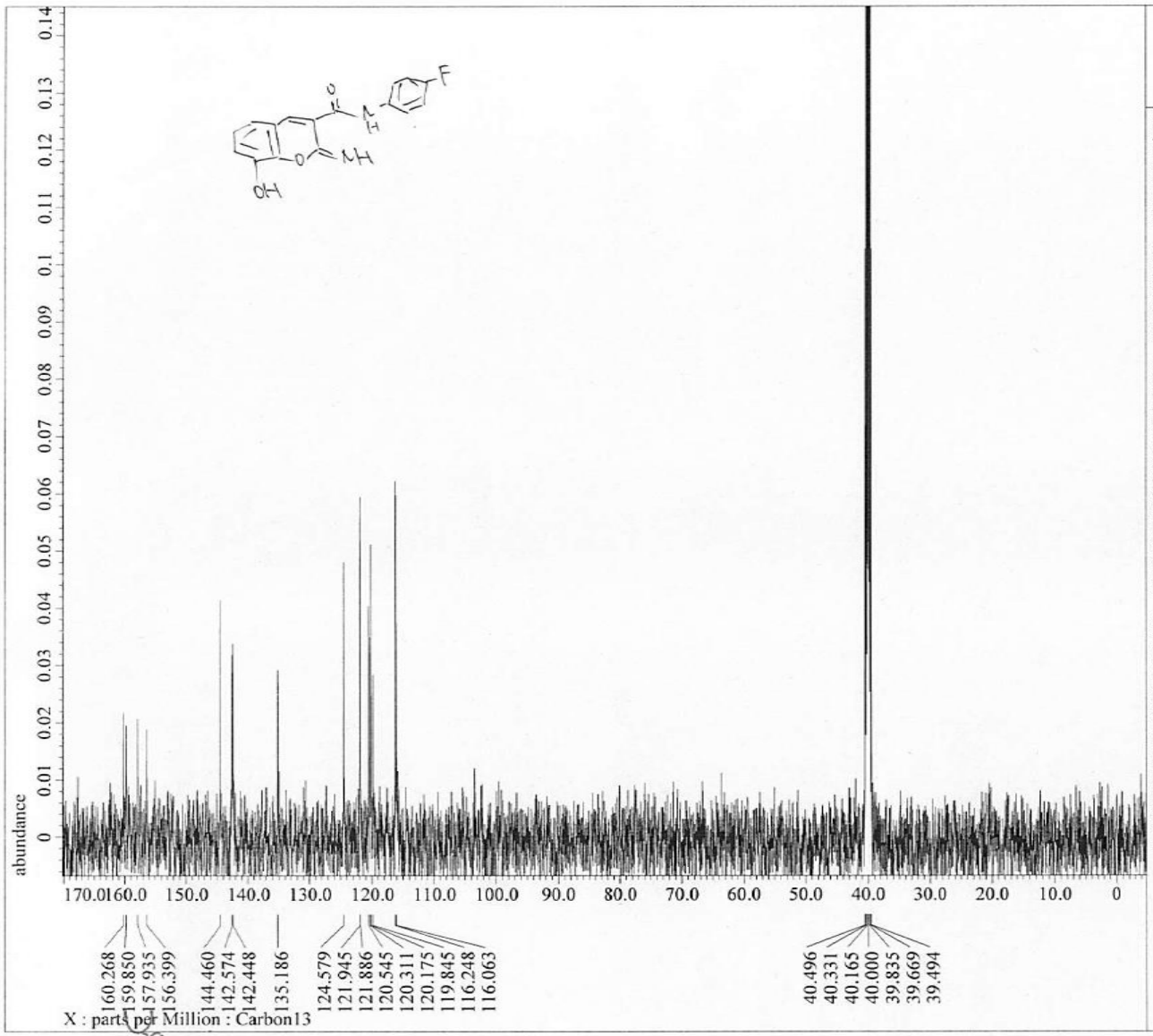


JEOL RESONANCE

Filename	= L1_ifuku20131226-C01-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 26-DEC-2013 11:05:05
Revision_Time	= 26-DEC-2013 11:21:10
Current_Time	= 26-DEC-2013 11:21:48
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 339
Total_Scans	= 339
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.8[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]


13g D
CBR-1
OH
abundance
0.88
1.00
2.06
2.84
1.91
9.094
8.503
8.500
7.719
7.709
7.701
7.691
7.236
7.231
7.226
7.218
7.200
7.102
7.099
7.097
7.085
3.327
2.507
2.503
2.500
2.496
2.493
X : parts per Million : Proton

14+α

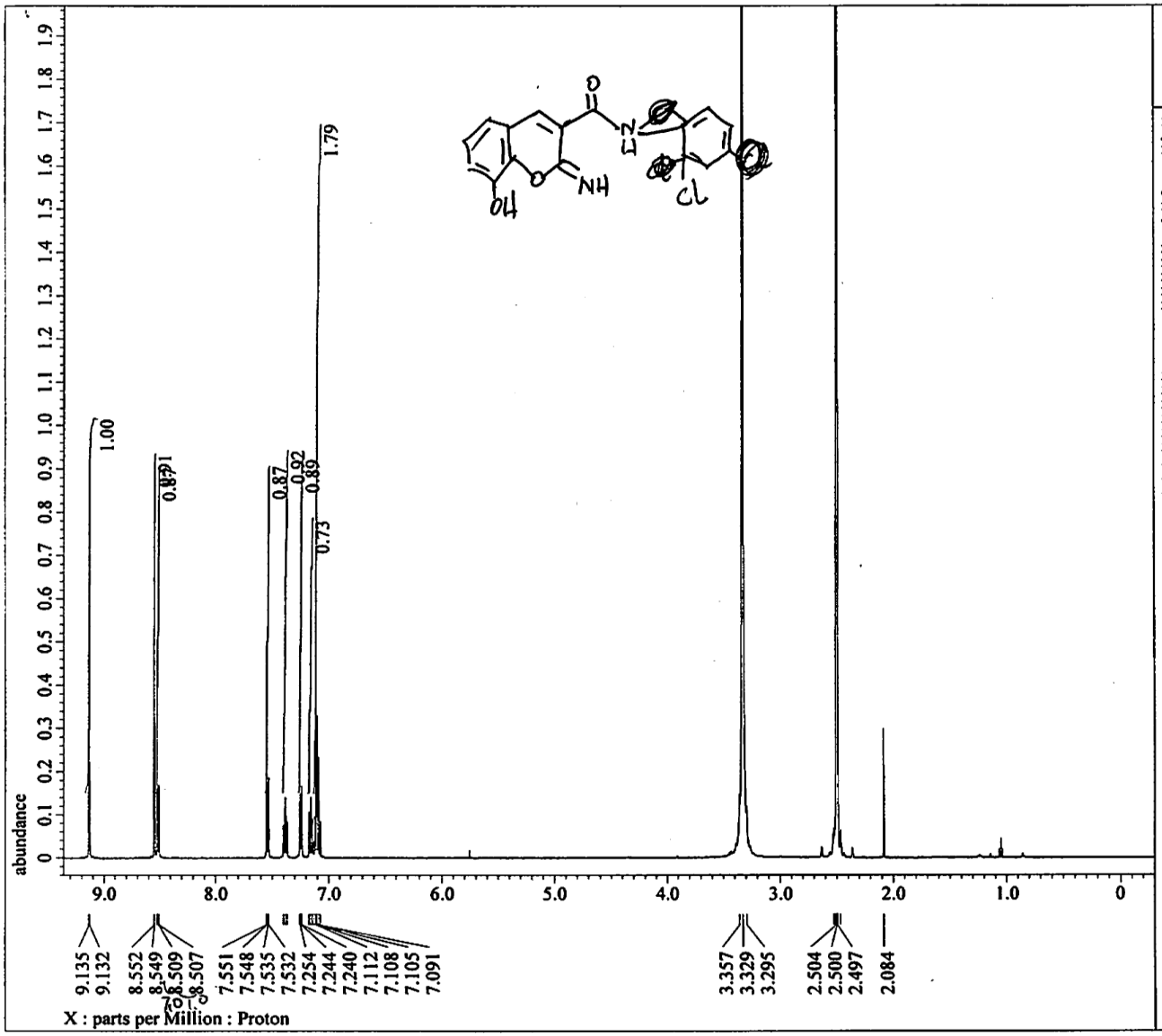


239.0

JEOL RESONANCE

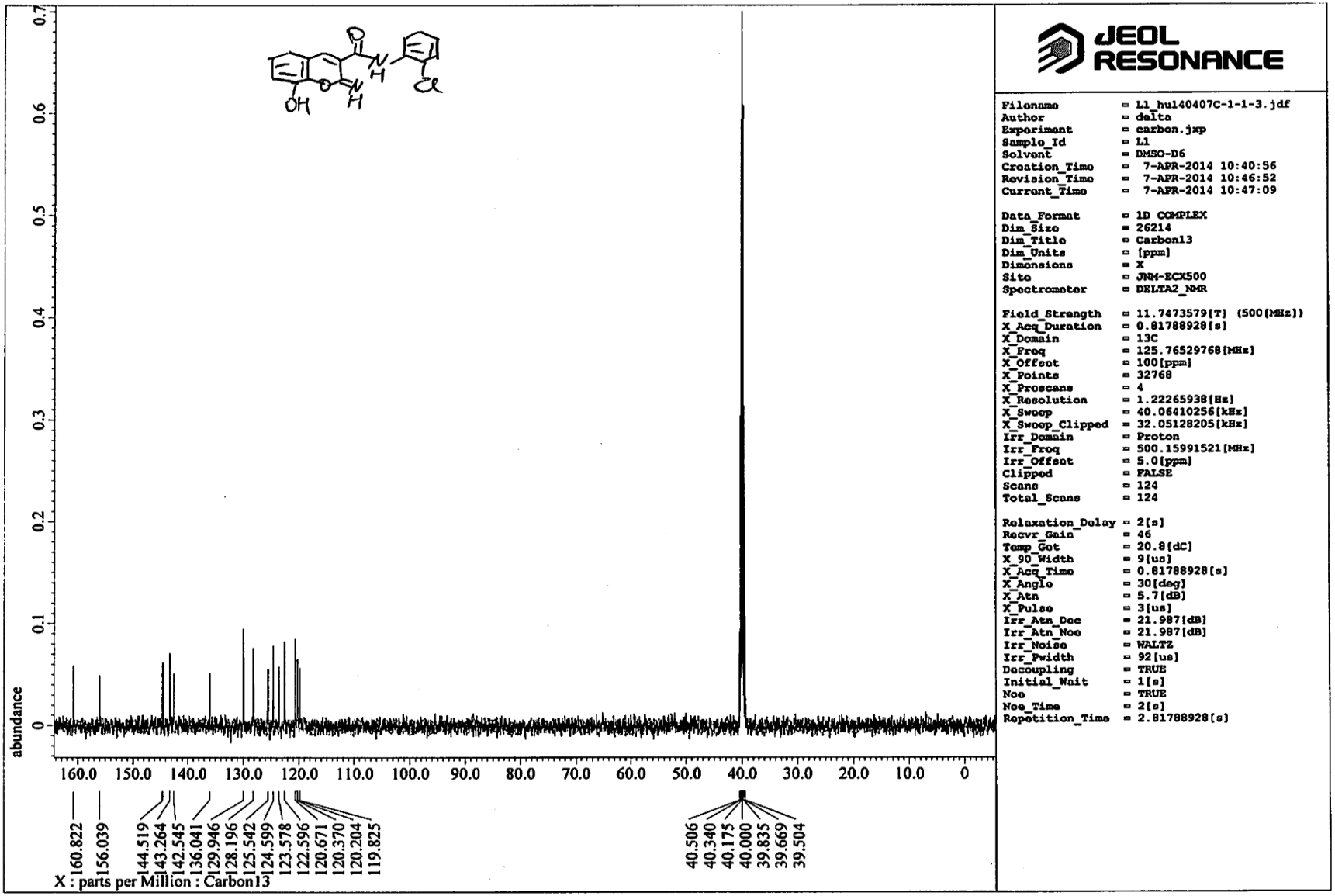
Filename	= L1_ifuku20131121-C01_copy1
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 21-NOV-2013 14:36:16
Revision_Time	= 21-NOV-2013 14:45:19
Current_Time	= 21-NOV-2013 14:47:19
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Incomplete_Copy	= TRUE
Scans	= 157
Total_Scans	= 157
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.7[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

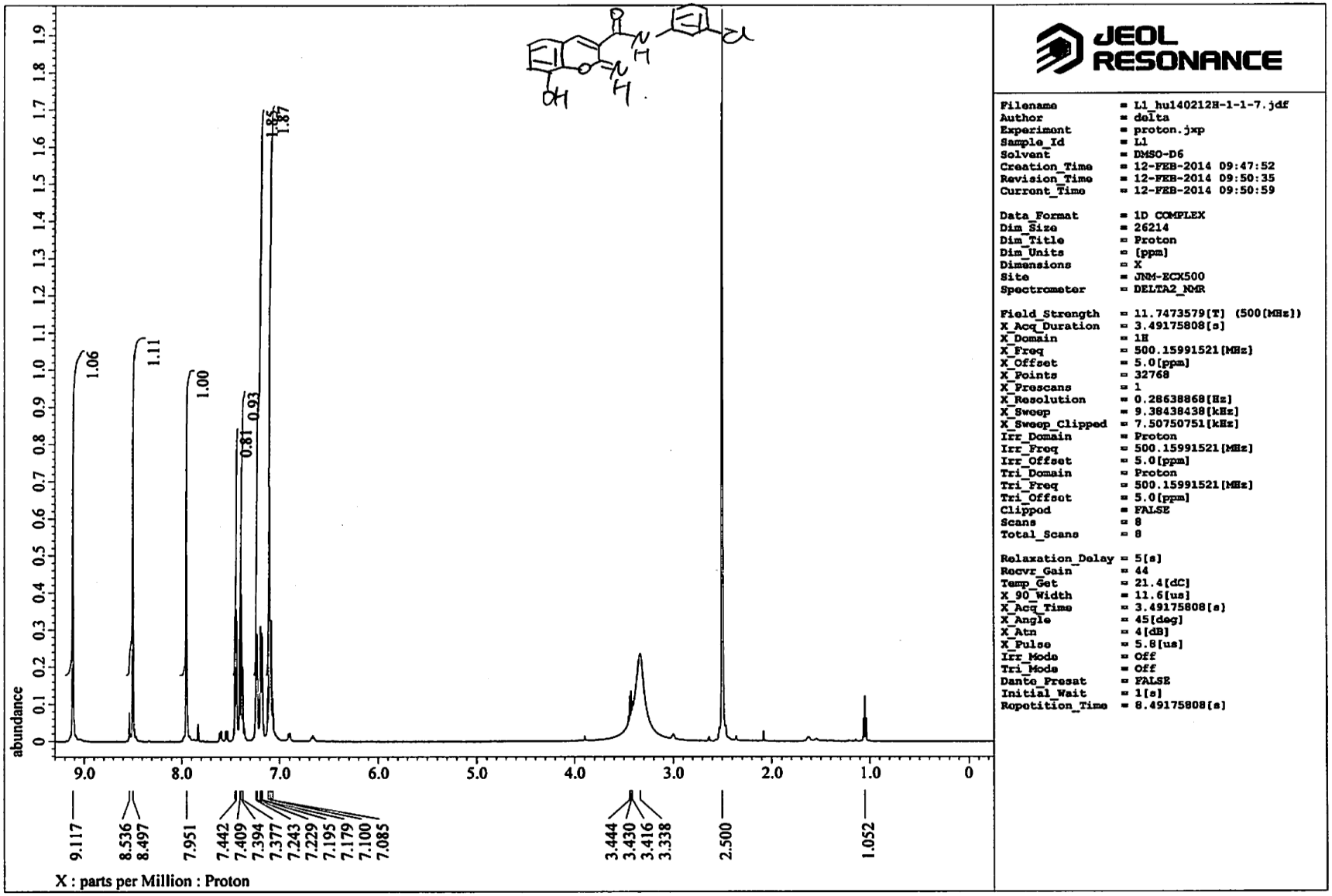
13h

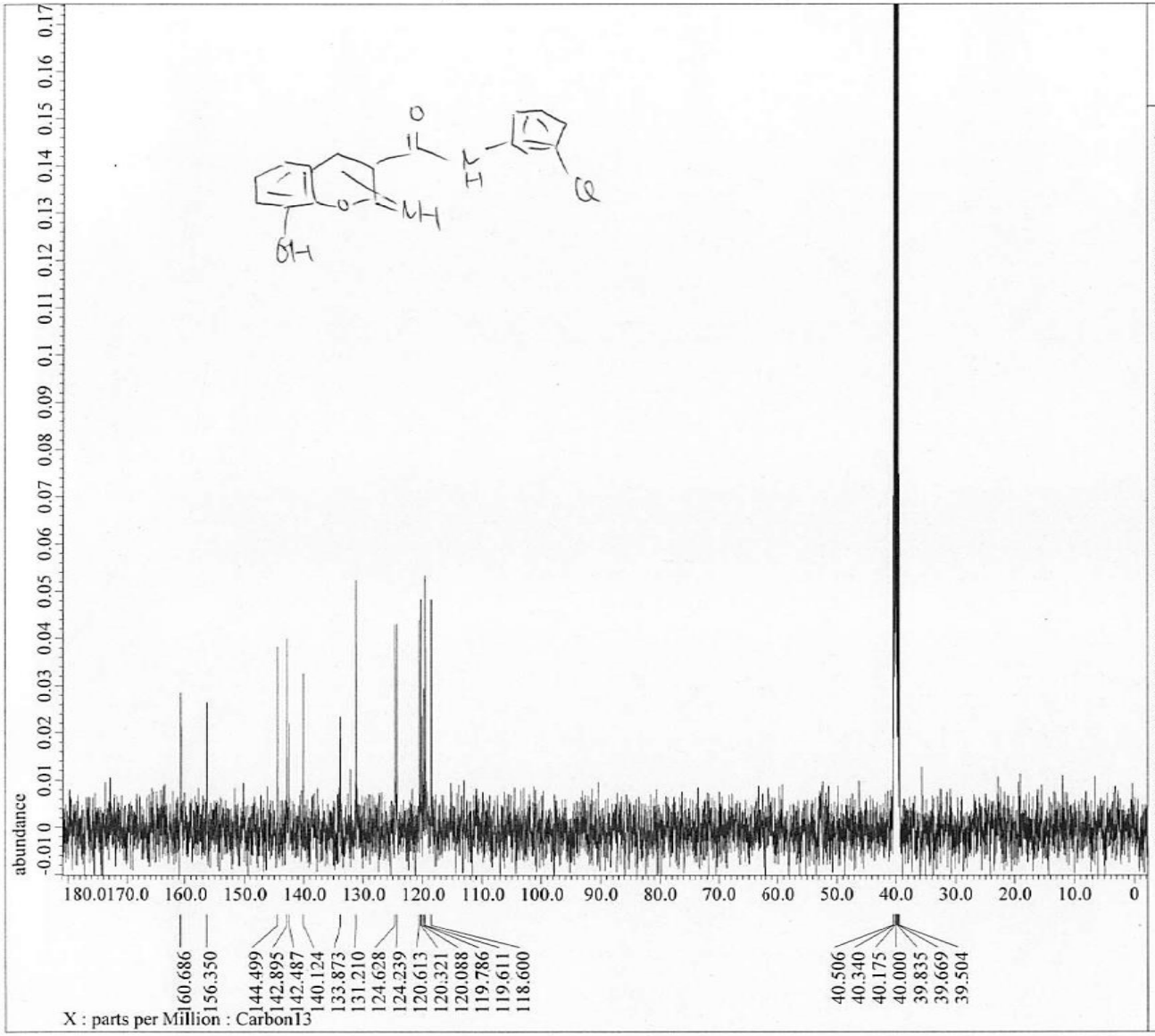


JEOL RESONANCE

Filename	= L1_xia140314H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 14-MAR-2014 14:34:33
Revision_Time	= 14-MAR-2014 14:37:08
Current_Time	= 14-MAR-2014 14:37:36
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get	= 22.6[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

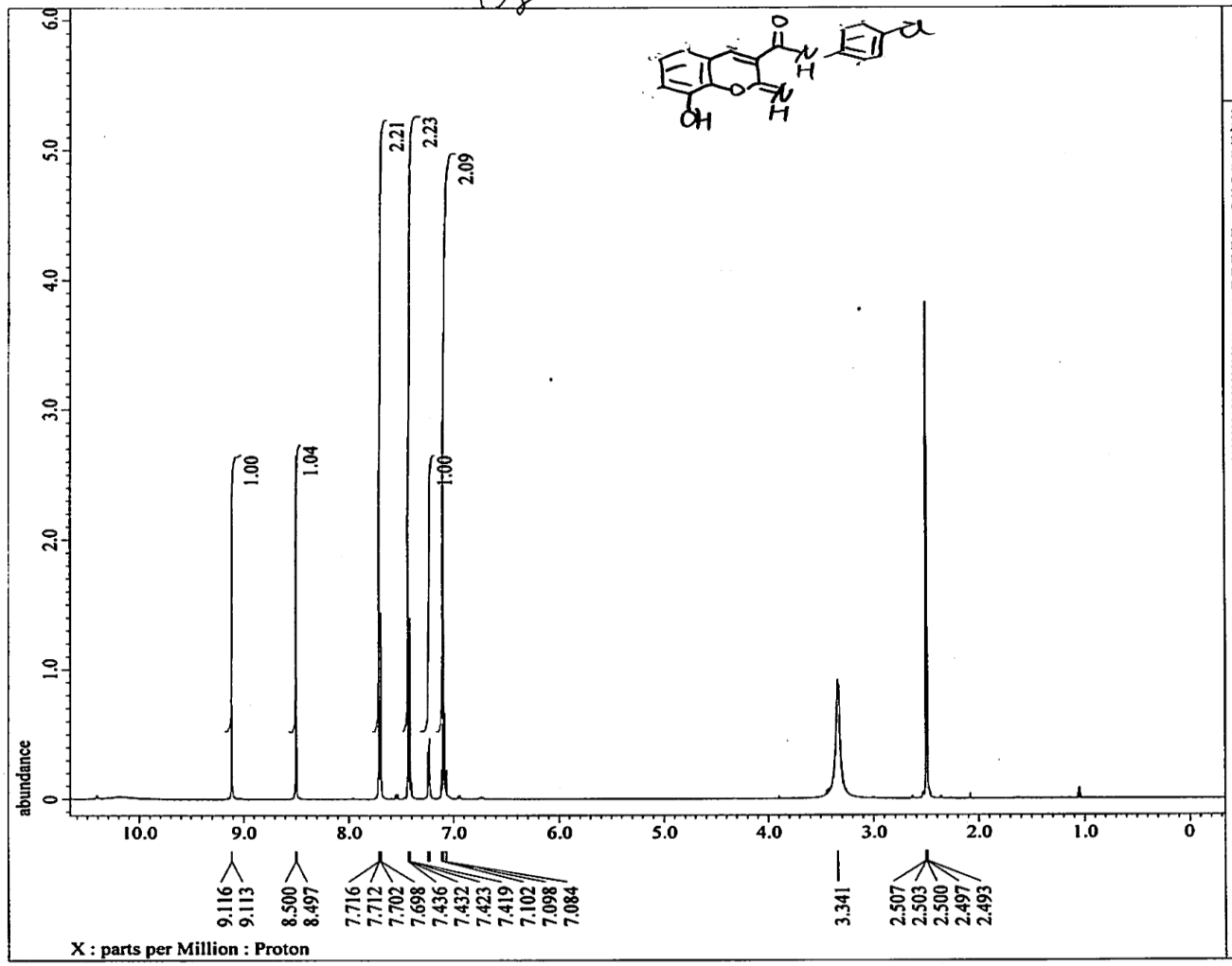

JEOL RESONANCE
Filename = L1_hu140407C-1-1-3.jdf
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 7-APR-2014 10:40:56
Revision_Time = 7-APR-2014 10:46:52
Current_Time = 7-APR-2014 10:47:09
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 124
Total_Scans = 124
Relaxation_Delay = 2[s]
Recvr_Gain = 46
Temp_Get = 20.8[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 2[s]
Repetition_Time = 2.81788928[s]
abundance
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7
160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0
160.822
156.039
144.519
143.264
142.545
136.041
129.946
128.196
125.542
124.599
123.578
122.596
120.671
120.370
120.204
119.825
40.506
40.340
40.175
40.000
39.835
39.669
39.504
X : parts per Million : Carbon13


JEOL RESONANCE
Filename = L1_hu140212H-1-1-7.jdf
Author = delta
Experiment = proton.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 12-FEB-2014 09:47:52
Revision_Time = 12-FEB-2014 09:50:35
Current_Time = 12-FEB-2014 09:50:59
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Proton
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 3.49175808[s]
X_Domain = 1H
X_Freq = 500.15991521[MHz]
X_Offset = 5.0[ppm]
X_Points = 32768
X_Prescans = 1
X_Resolution = 0.28638868[Hz]
X_Sweep = 9.38438438[kHz]
X_Sweep_Clipped = 7.50750751[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Tri_Domain = Proton
Tri_Freq = 500.15991521[MHz]
Tri_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 8
Total_Scans = 8
Relaxation_Delay = 5[s]
Recvr_Gain = 44
Temp_Get = 21.4[dC]
X_90_Width = 11.6[us]
X_Acq_Time = 3.49175808[s]
X_Angle = 45[deg]
X_Atn = 4[dB]
X_Pulse = 5.8[us]
Irr_Mode = Off
Tri_Mode = Off
Dante_Presat = FALSE
Initial_Wait = 1[s]
Repetition_Time = 8.49175808[s]
abundance
1.06
1.11
1.00
0.81
0.93
1.85
1.87
9.117
8.536
8.497
7.951
7.442
7.409
7.394
7.377
7.243
7.229
7.195
7.179
7.100
7.085
3.444
3.430
3.416
3.338
2.500
1.052
X : parts per Million : Proton



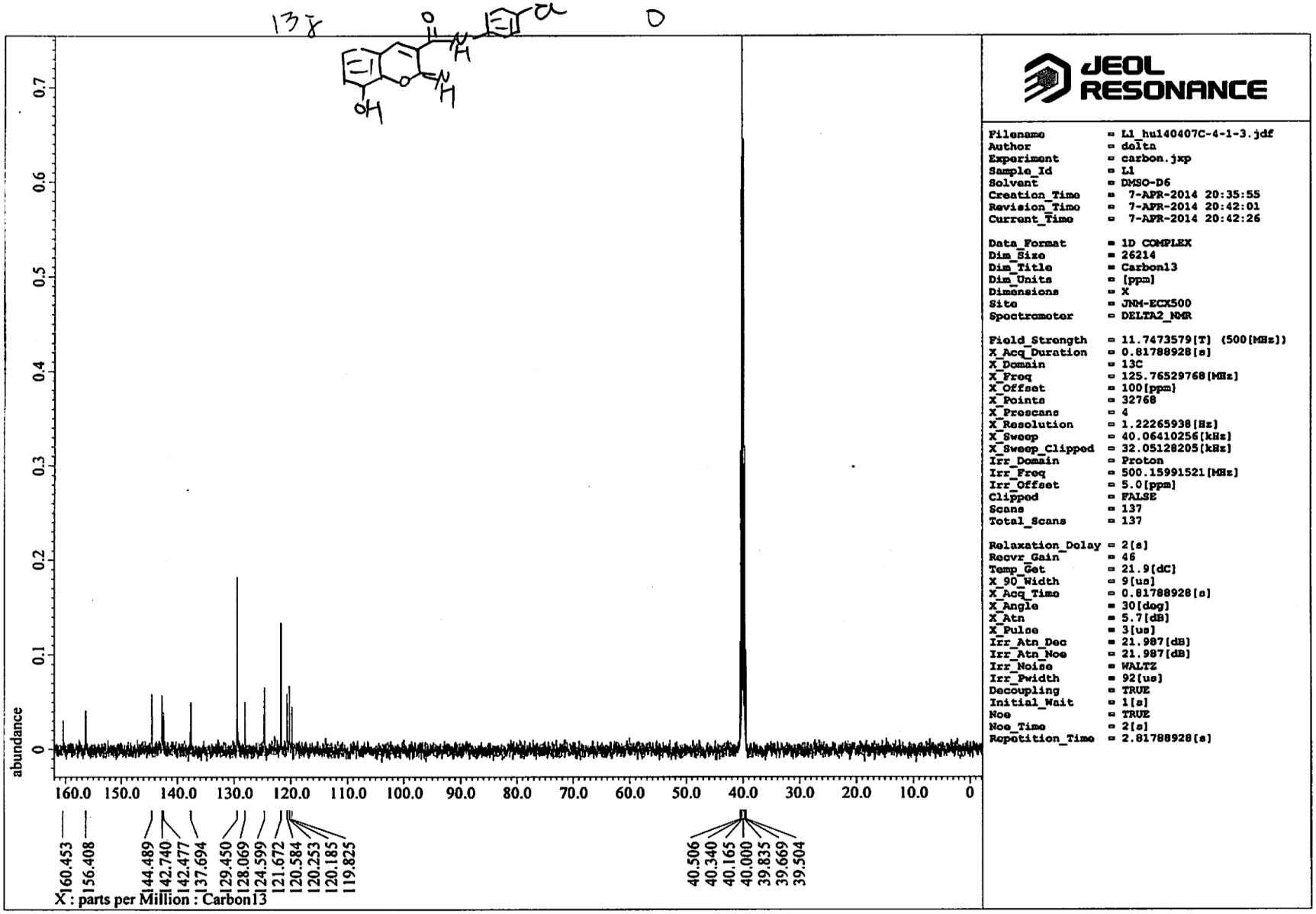
JEOL RESONANCE

Filename	= L1_ifuku20140131-C01-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 31-JAN-2014 16:35:05
Revision_Time	= 31-JAN-2014 16:40:11
Current_Time	= 31-JAN-2014 16:40:32
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 160
Total_Scans	= 160
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 22.7[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

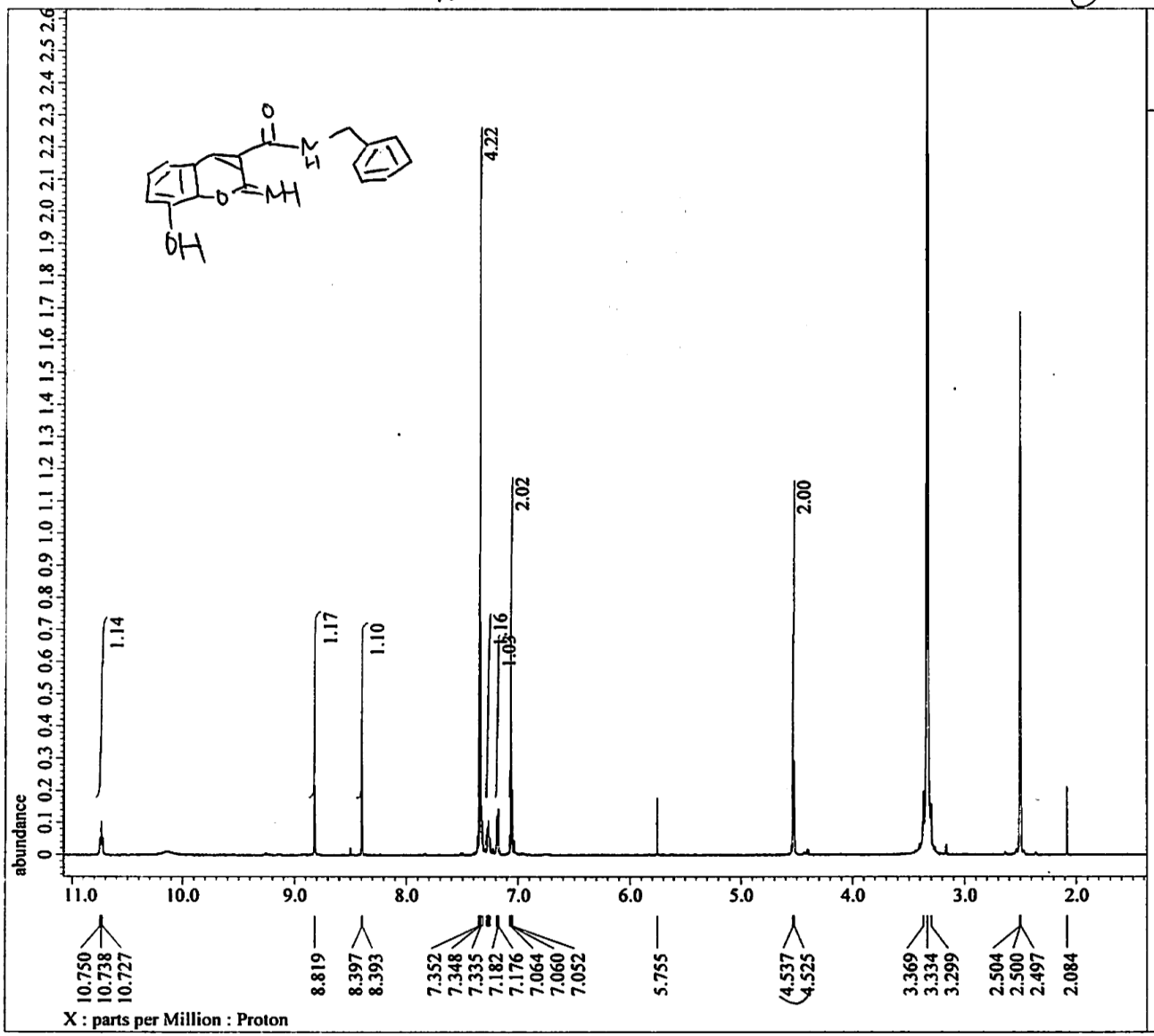


JEOL RESONANCE

Filename	= L1_hu140310E-3-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 10-MAR-2014 12:54:32
Revision_Time	= 10-MAR-2014 12:56:25
Current_Time	= 10-MAR-2014 12:56:50
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get °	= 21.1[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]


13f
O
N
H
N
H
OH
abundance
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0
160.453
156.408
144.489
142.740
142.477
137.694
129.450
128.069
124.599
121.672
120.584
120.253
120.185
119.825
40.506
40.340
40.165
40.000
39.835
39.669
39.504
X : parts per Million : Carbon13
JEOL RESONANCE
Filename = L1_hu140407C-4-1-3.jdf
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 7-APR-2014 20:35:55
Revision_Time = 7-APR-2014 20:42:01
Current_Time = 7-APR-2014 20:42:26
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 137
Total_Scans = 137
Relaxation_Delay = 2[s]
Recvr_Gain = 46
Temp_Get = 21.9[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 2[s]
Repetition_Time = 2.81788928[s]

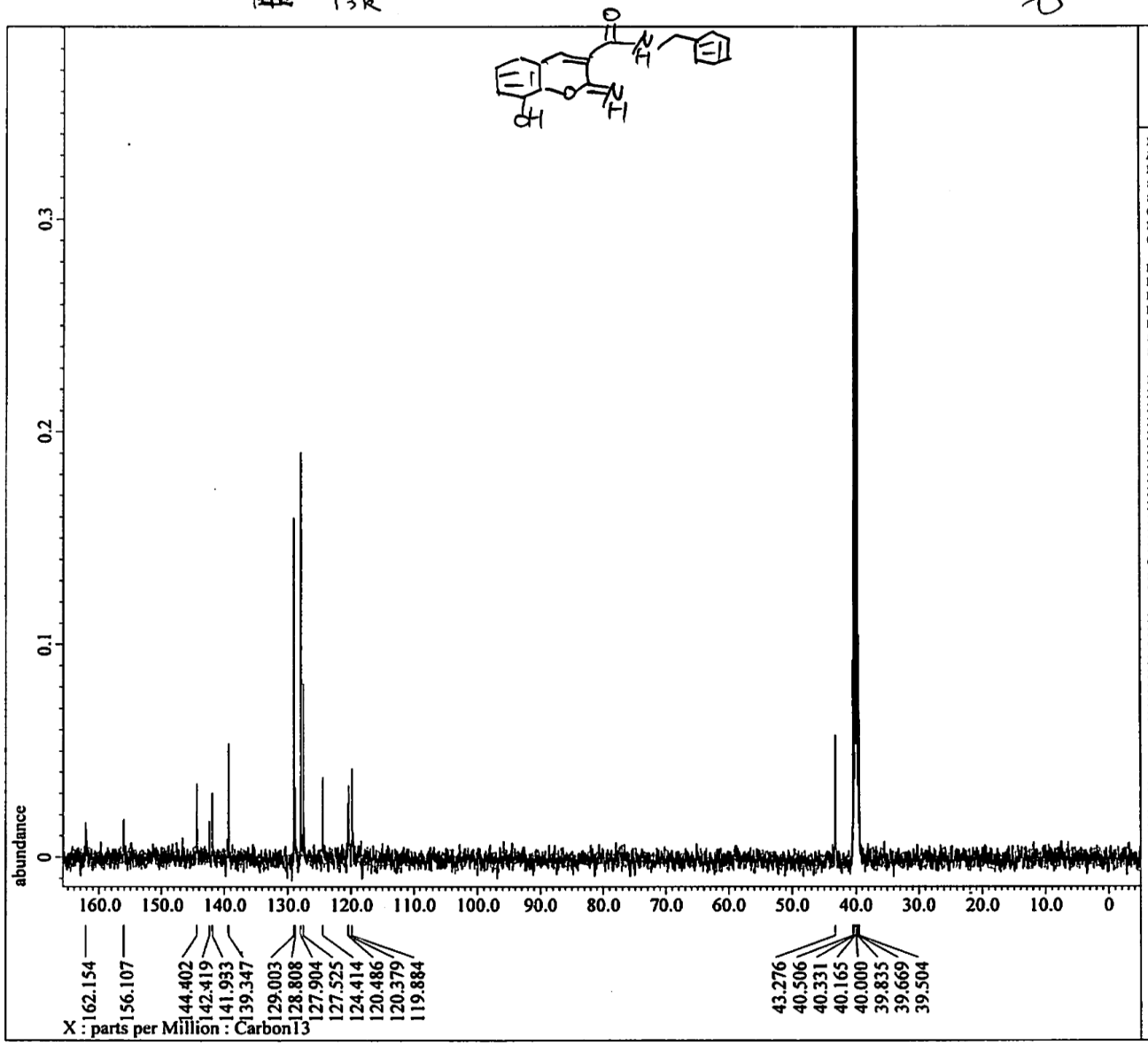
13k



JEOL RESONANCE

Filename	= L1_ifuku20131213-H02-1-4.j
Author	= dolta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 13-DEC-2013 14:50:02
Revision_Time	= 13-DEC-2013 14:56:44
Current_Time	= 13-DEC-2013 14:56:58
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 4
Total_Scans	= 4
Relaxation_Delay	= 5[s]
Recvr_Gain	= 50
Temp_Get	= 22.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

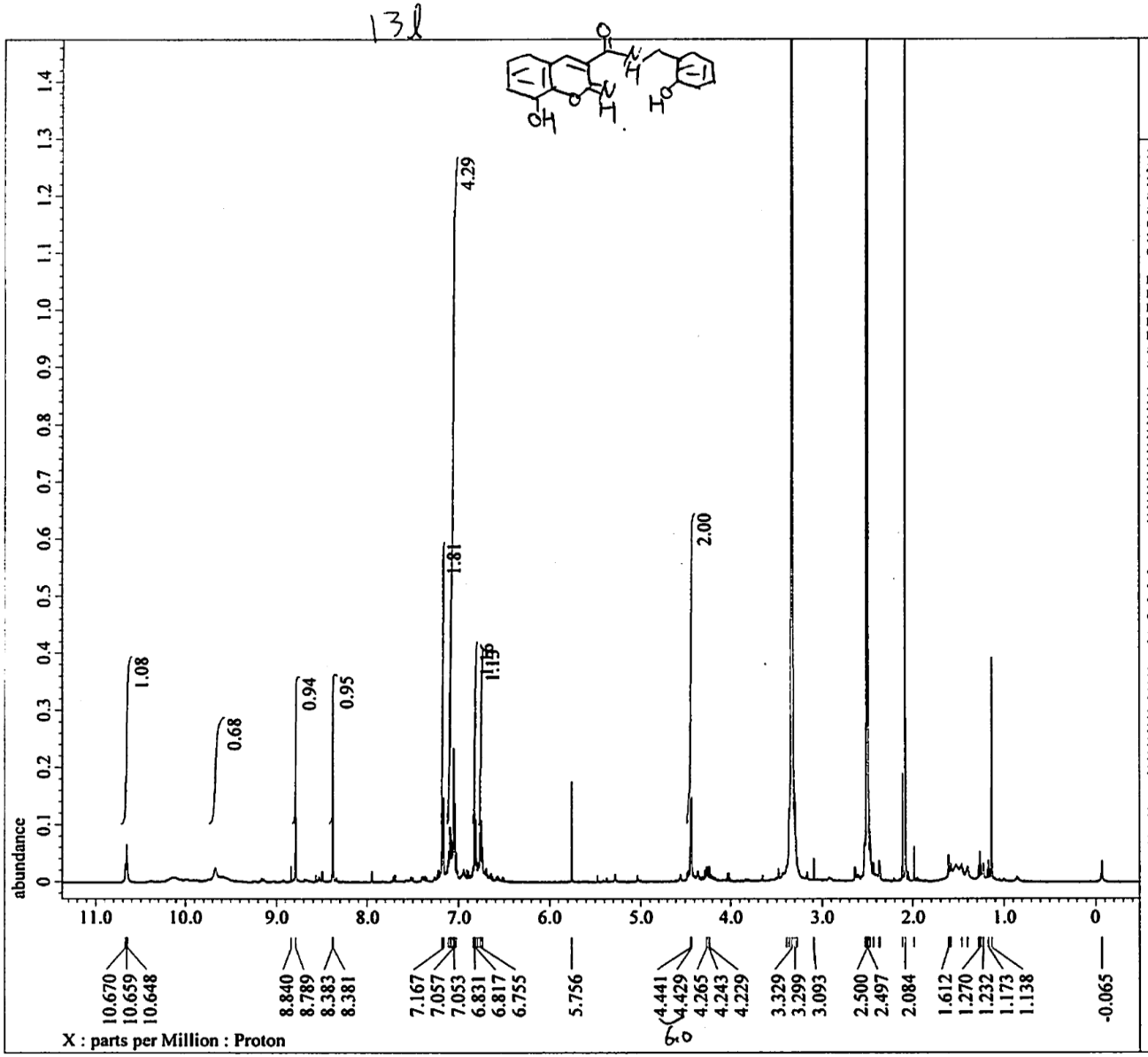
~~14k~~ 13k



JEOL RESONANCE

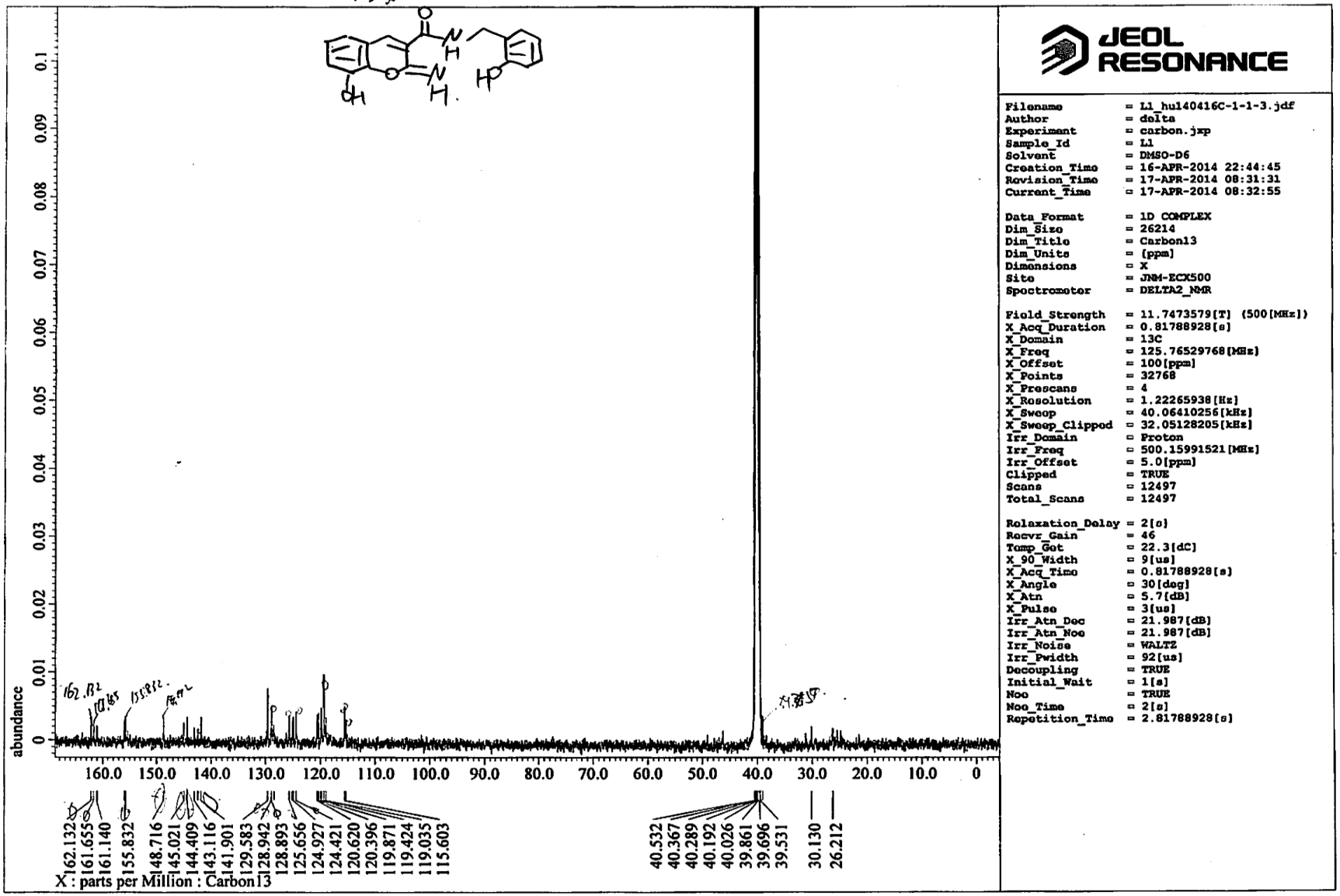
Filename	= L1_hu14210C-1-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 10-FEB-2014 11:06:49
Revision_Time	= 10-FEB-2014 11:22:00
Current_Time	= 10-FEB-2014 11:23:00
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 322
Total_Scans	= 322
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.2[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

13l

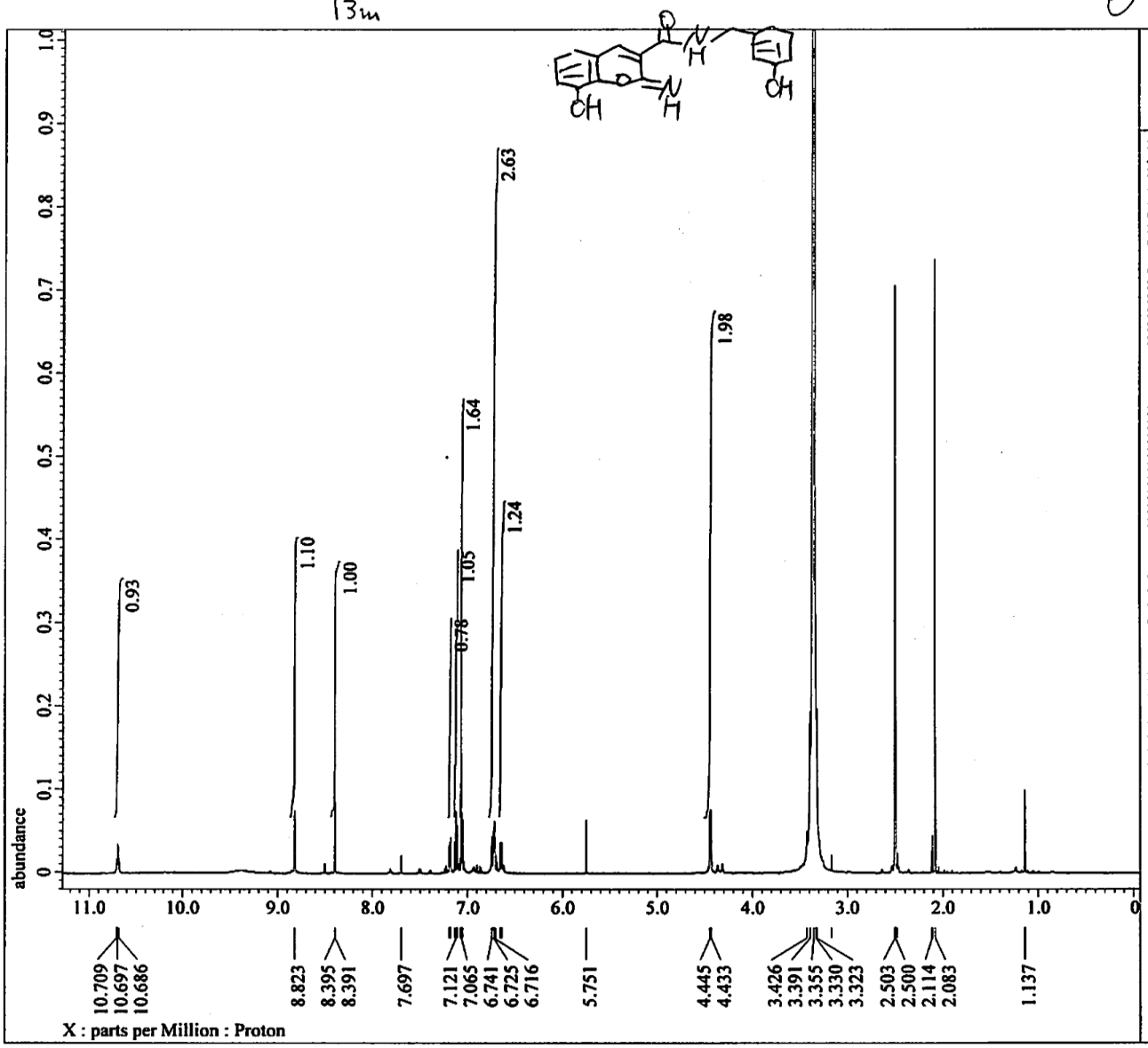


JEOL RESONANCE

Filename	= L1_hu140306H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 6-MAR-2014 14:00:21
Revision_Time	= 7-MAY-2014 13:04:47
Current_Time	= 7-MAY-2014 13:05:24
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get	= 22.4[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]


JEOL RESONANCE
Filename = L1_hu140416C-1-1-3.jdf
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 16-APR-2014 22:44:45
Revision_Time = 17-APR-2014 08:31:31
Current_Time = 17-APR-2014 08:32:55
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = TRUE
Scans = 12497
Total_Scans = 12497
Relaxation_Delay = 2[s]
Recvr_Gain = 46
Temp_Set = 22.3[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 2[s]
Repetition_Time = 2.81788928[s]
abundance
0 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1
160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0
162.132 161.655 161.140 155.832 148.716 145.021 144.409 143.116 141.901 129.583 128.942 128.893 125.656 124.927 124.421 120.620 120.396 119.871 119.424 119.035 115.603
40.532 40.367 40.289 40.192 40.026 39.861 39.696 39.531 30.130 26.212
X : parts per Million : Carbon13

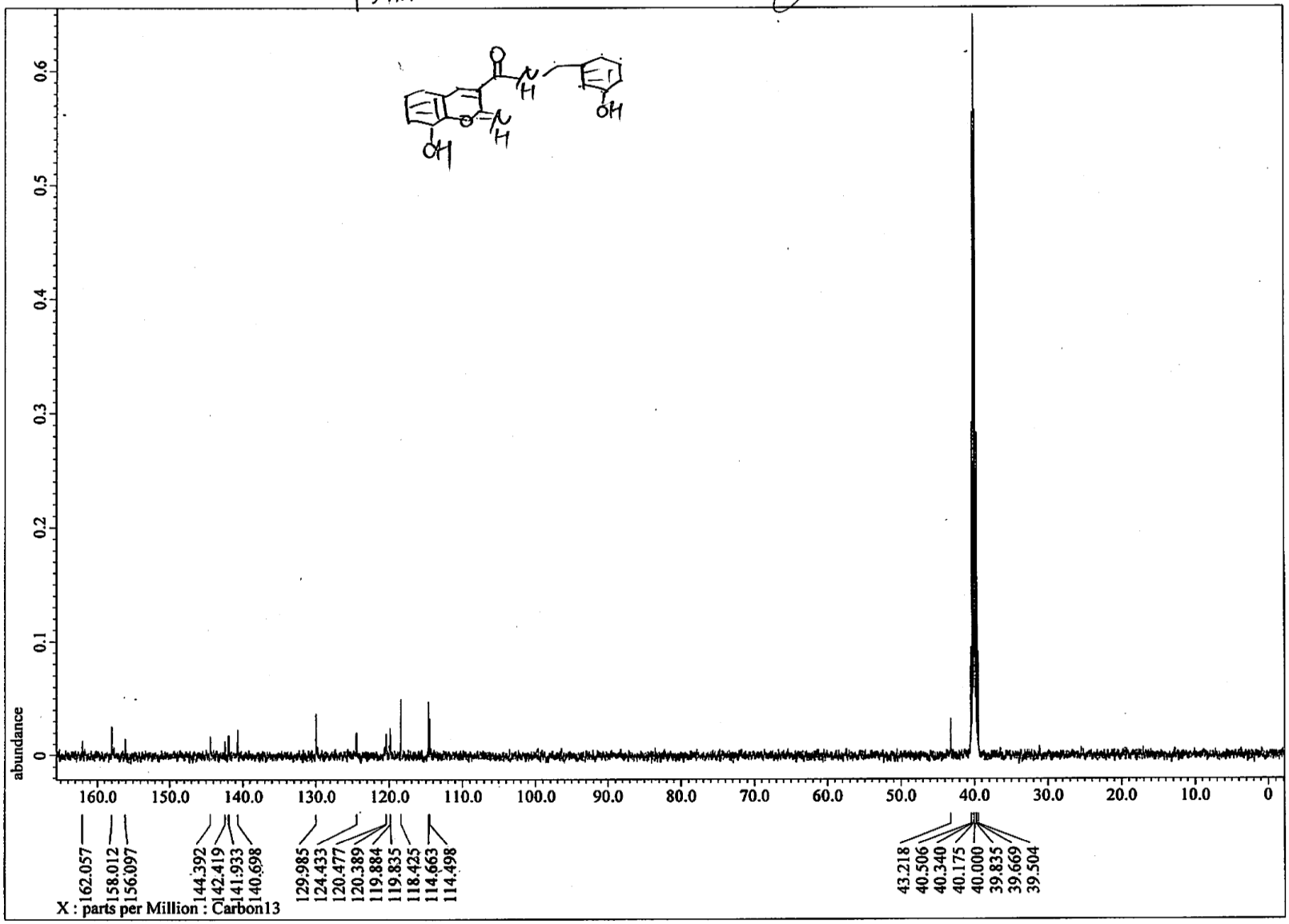
13m

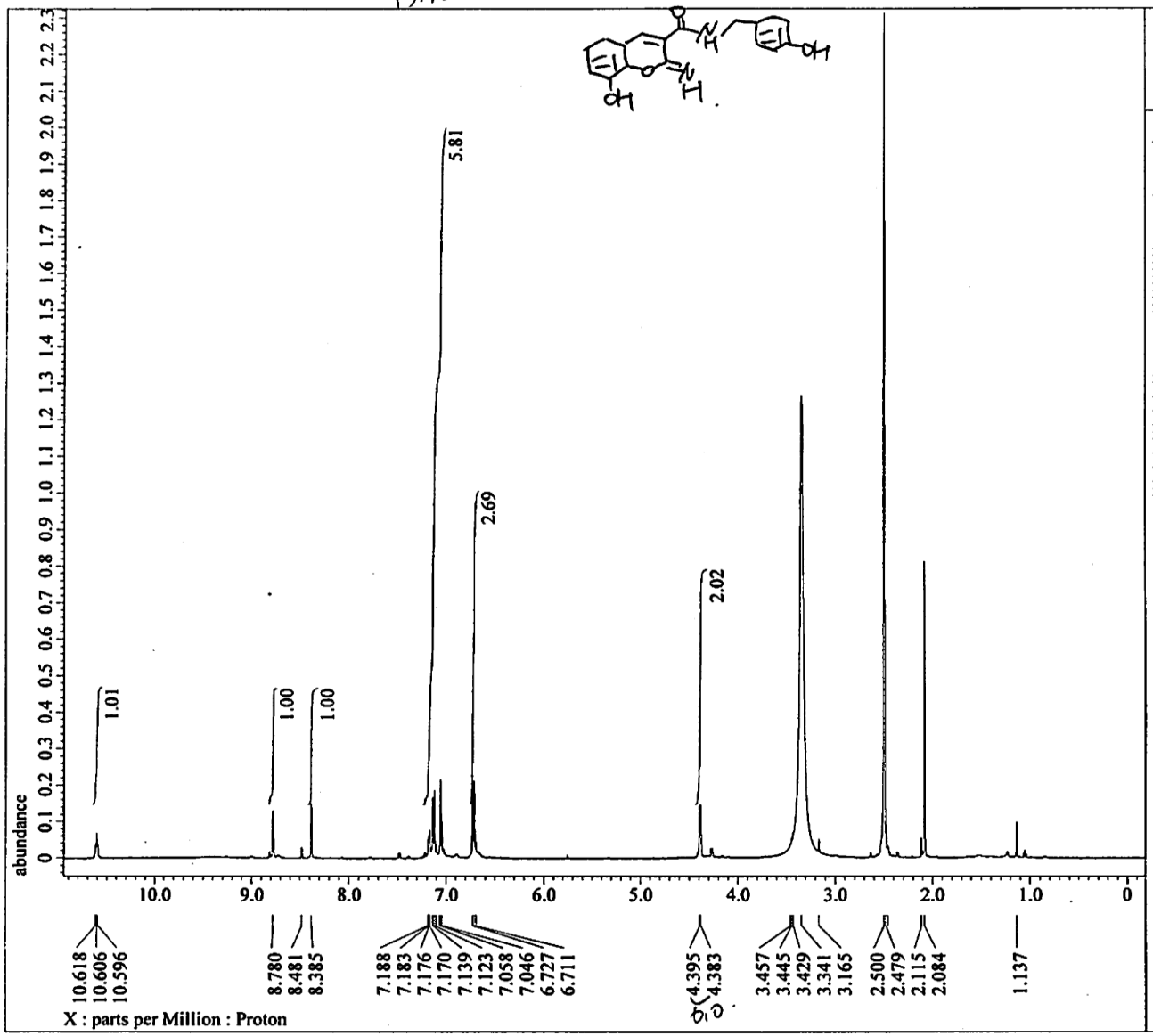


JEOL RESONANCE

Filename	= L1_hu140122H-3-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 22-JAN-2014 16:08:42
Revision_Time	= 22-JAN-2014 16:16:29
Current_Time	= 22-JAN-2014 16:16:38
Comment	= kobayashi-p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 42
Temp_Get	= 22.4[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

13 M

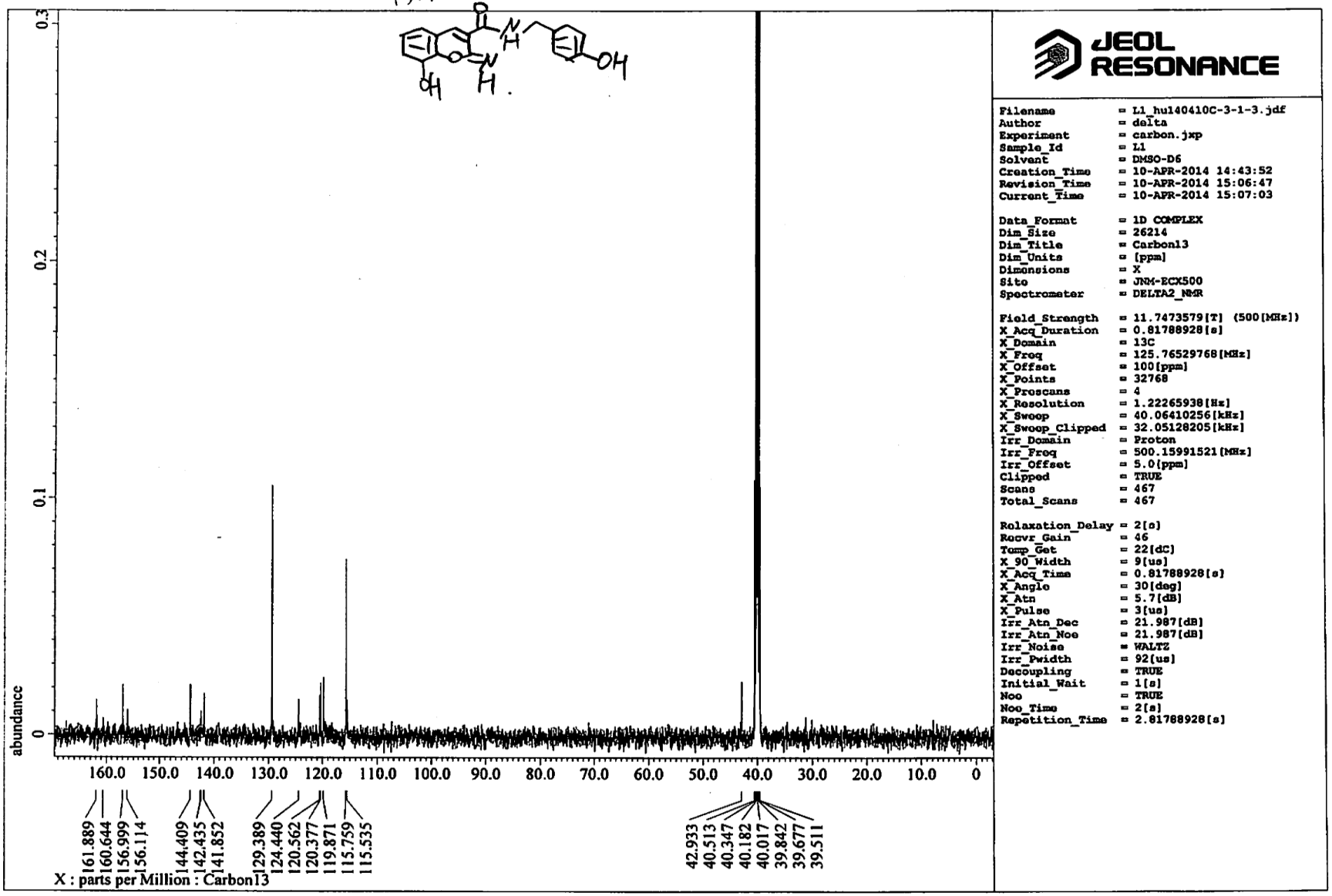

abundance
0
0.1
0.2
0.3
0.4
0.5
0.6
160.0
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0
162.057
158.012
156.097
144.392
142.419
141.933
140.698
129.985
124.433
120.477
120.389
119.884
119.835
118.425
114.663
114.498
43.218
40.506
40.340
40.175
40.000
39.835
39.669
39.504
X : parts per Million : Carbon13



JEOL RESONANCE

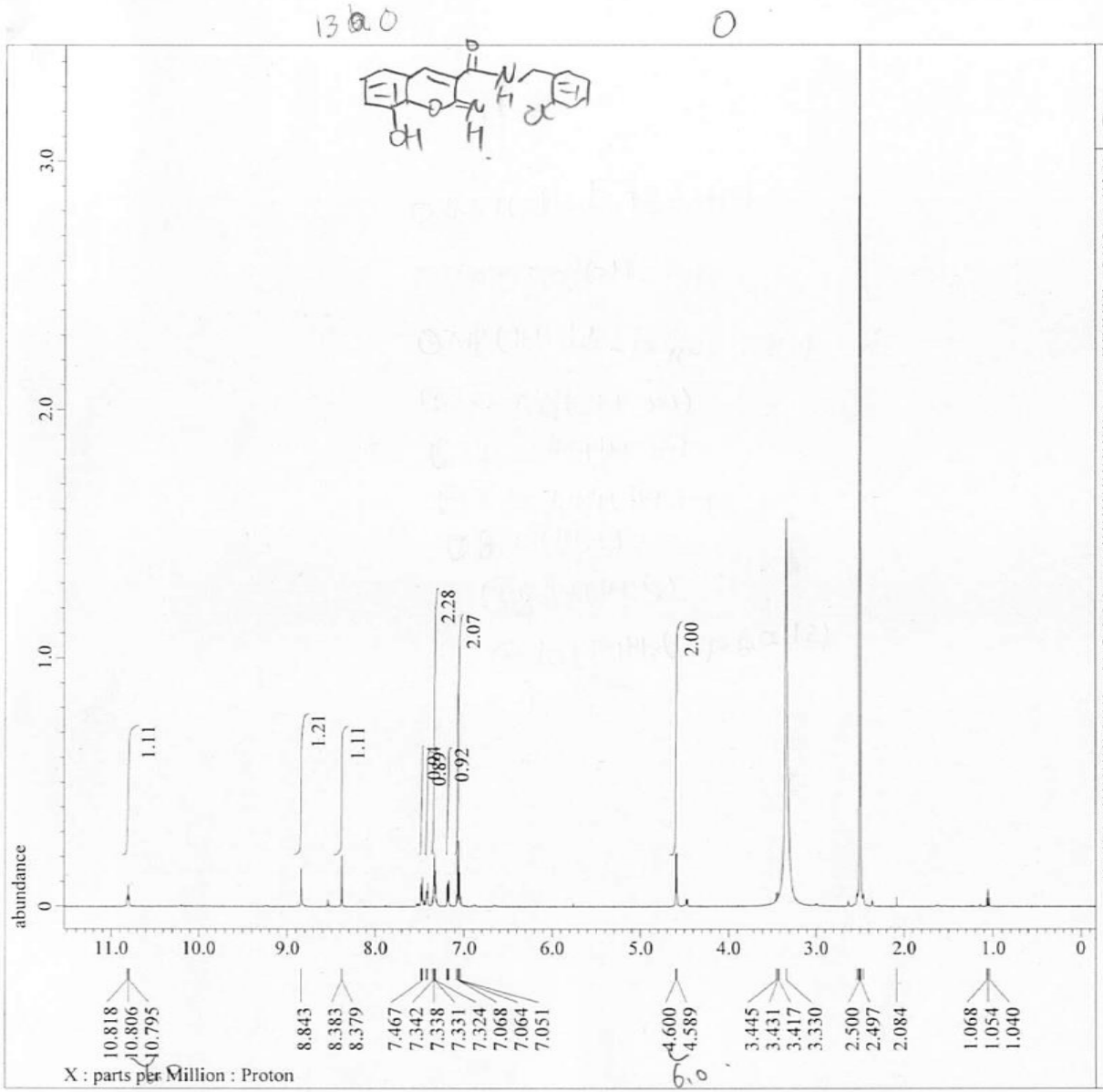
Filename	= L1_hudawei140402H-1-1-6.jd
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 2-APR-2014 09:22:13
Revision_Time	= 2-APR-2014 09:25:27
Current_Time	= 2-APR-2014 09:25:42
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 46
Temp_Set	= 21.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

13m



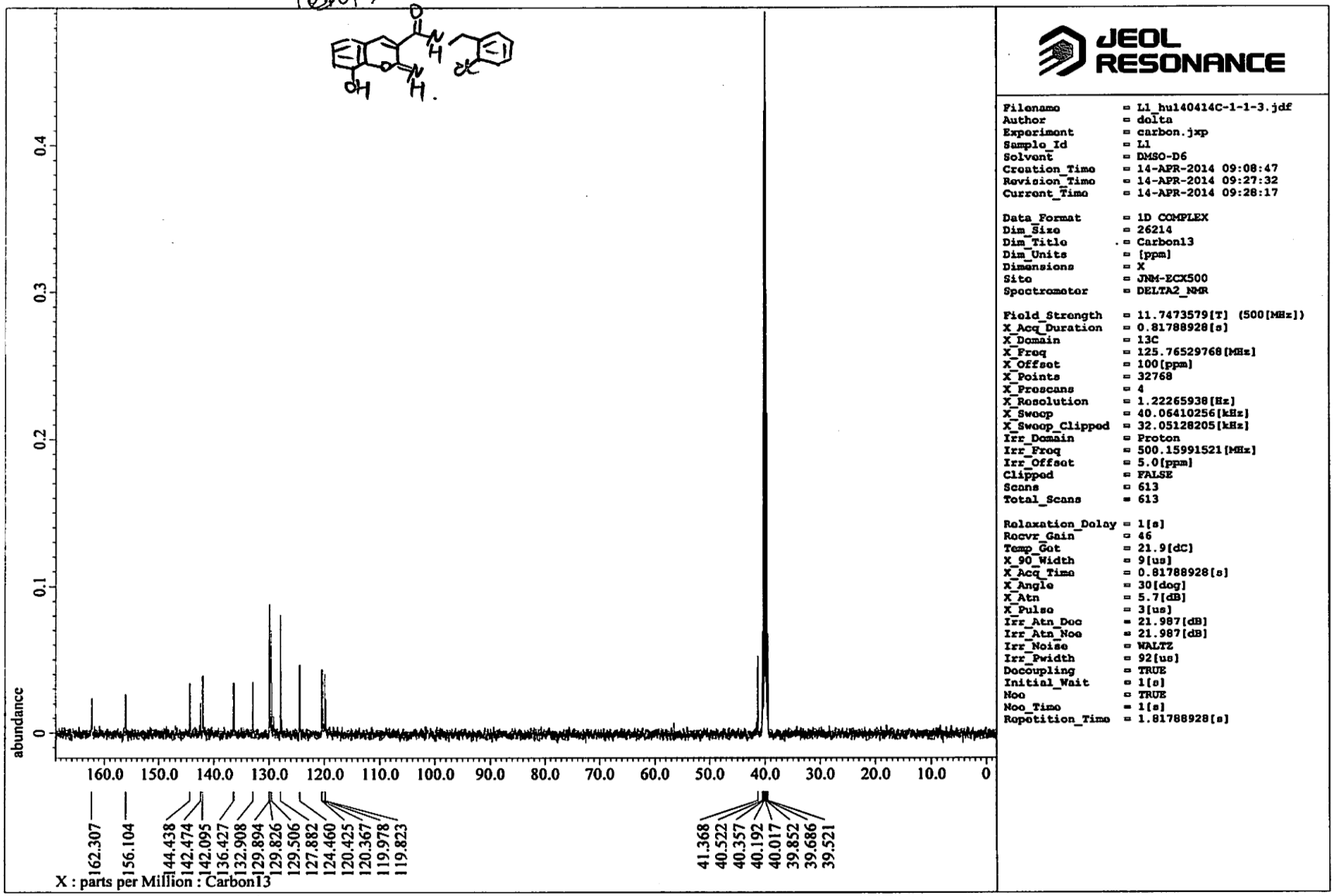
JEOL RESONANCE

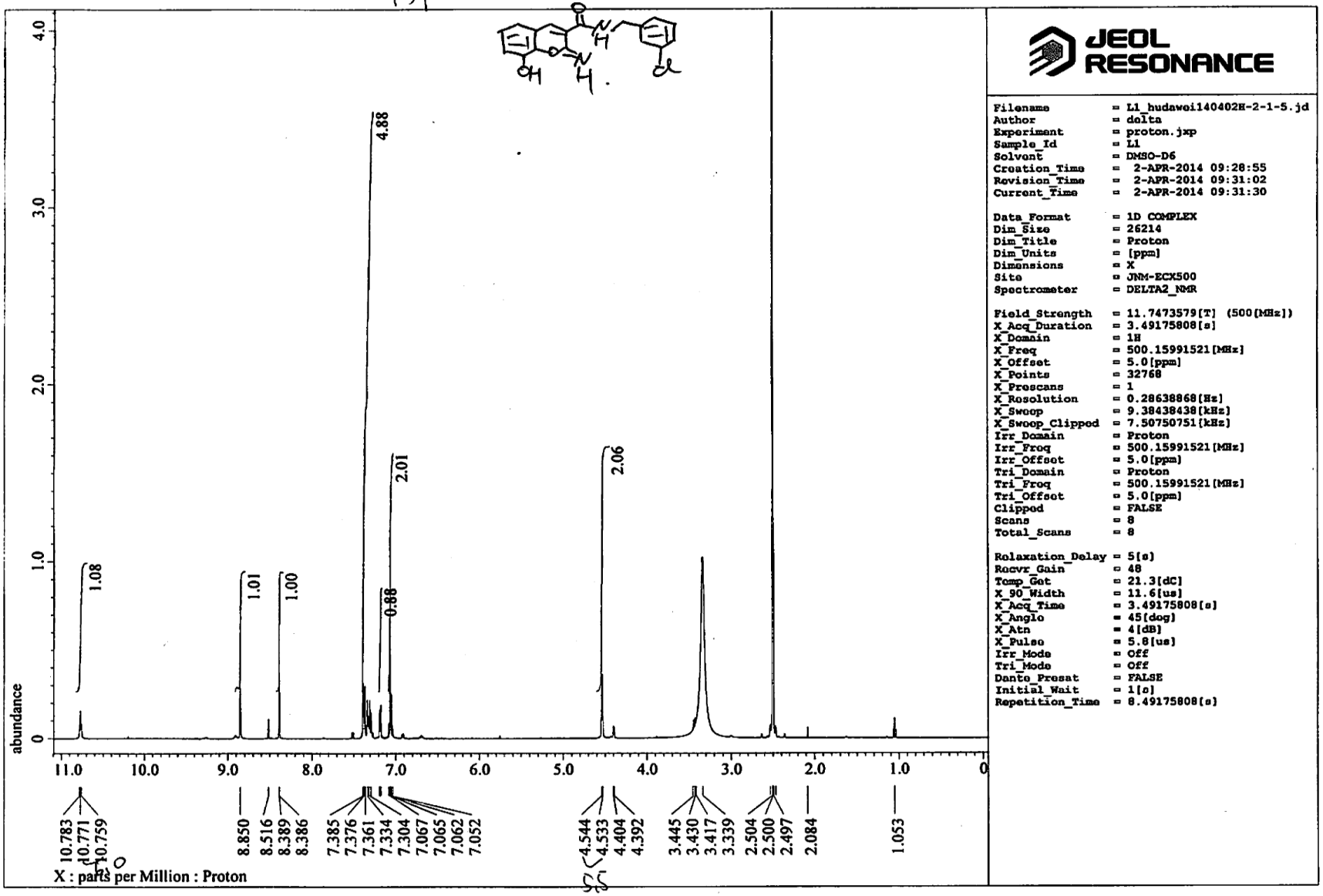
Filename	= L1_hu140410C-3-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 10-APR-2014 14:43:52
Revision_Time	= 10-APR-2014 15:06:47
Current_Time	= 10-APR-2014 15:07:03
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 467
Total_Scans	= 467
Rolaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL

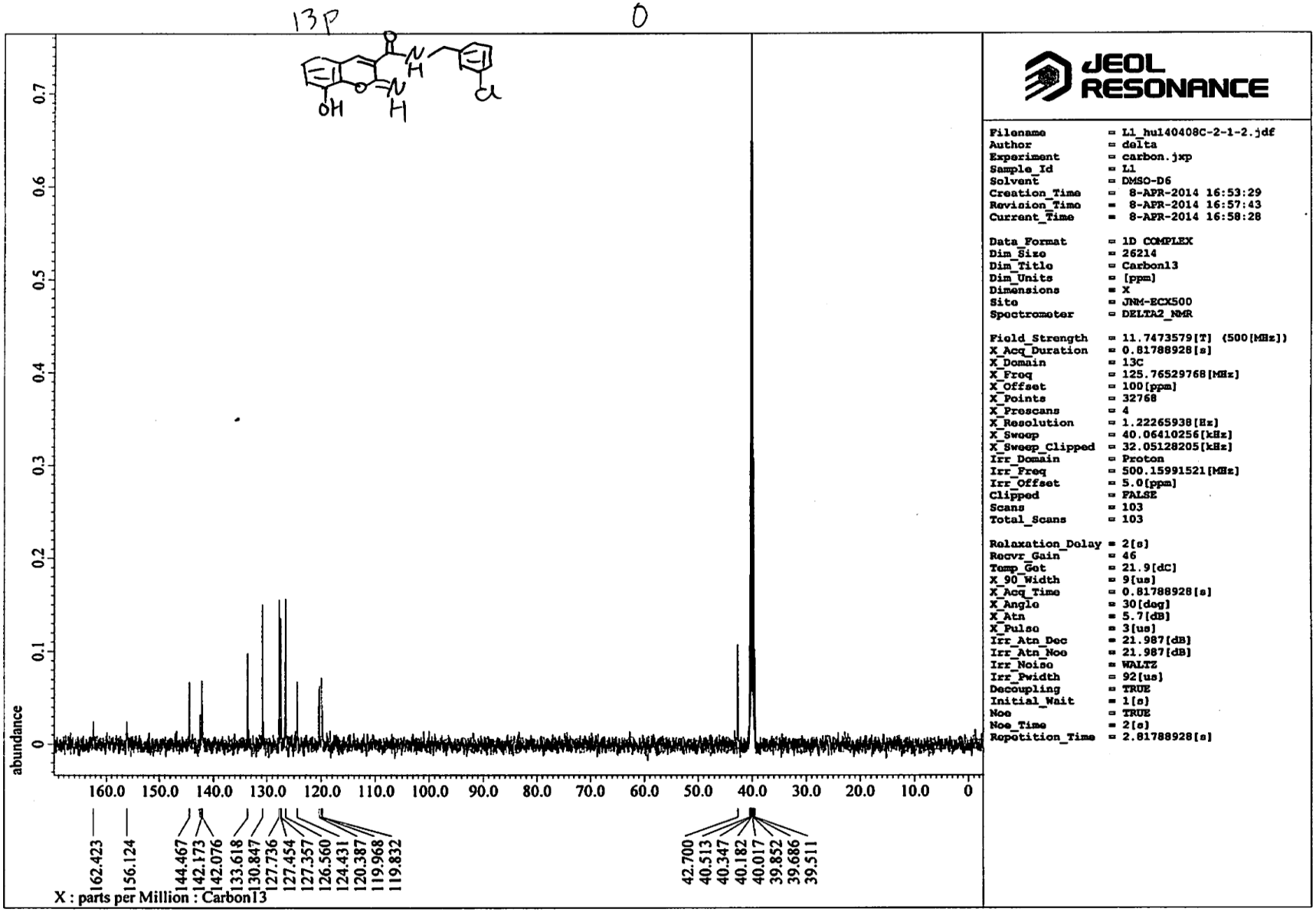
```
Filename          = C:\Users\ws2-DATA\L1\L1_
Author            = delta
Experiment        = proton.jxp
Sample_Id         = L1
Solvent           = DMSO-D6
Creation_Time     = 19-MAR-2014 13:45:21
Revision_Time     =  7-MAY-2014 14:00:54
Current_Time      =  7-MAY-2014 14:01:21

Data_Format       = 1D COMPLEX
Dim_Size          = 26214
Dim_Title         = Proton
Dim_Units         = [ppm]
Dimensions        = X
Site              = JNM-ECX500
Spectrometer      = DELTA2_NMR

Field_Strength    = 11.7473579[T] (500[MHz])
X_Acq_Duration    = 3.49175808[s]
X_Domain          = 1H
X_Freq            = 500.15991521[MHz]
X_Offset          = 5.0[ppm]
X_Points          = 32768
X_Prescans        = 1
X_Resolution      = 0.28638868[Hz]
X_Sweep           = 9.38438438[kHz]
X_Sweep_Clipped   = 7.50750751[kHz]
Irr_Domain        = Proton
Irr_Freq          = 500.15991521[MHz]
Irr_Offset        = 5.0[ppm]
Tri_Domain        = Proton
Tri_Freq          = 500.15991521[MHz]
Tri_Offset        = 5.0[ppm]
Clipped           = FALSE
Scans             = 8
Total_Scans       = 8

Relaxation_Delay  = 5[s]
Recvr_Gain        = 48
Temp_Get          = 22.7[dC]
X_90_Width        = 11.6[us]
X_Acq_Time        = 3.49175808[s]
X_Angle           = 45[deg]
X_Atn             = 4[dB]
X_Pulse           = 5.8[us]
Irr_Mode          = Off
Tri_Mode          = Off
Dante_Presat      = FALSE
Initial_Wait      = 1[s]
Repetition_Time   = 8.49175808[s]
```


JEOL RESONANCE
Filename = L1_hu140414C-1-1-3.jdf
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 14-APR-2014 09:08:47
Revision_Time = 14-APR-2014 09:27:32
Current_Time = 14-APR-2014 09:28:17
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 613
Total_Scans = 613
Relaxation_Delay = 1[s]
Recvr_Gain = 46
Temp_Get = 21.9[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 1[s]
Repetition_Time = 1.81788928[s]
abundance
0
0.1
0.2
0.3
0.4
160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0
162.307
156.104
144.438
142.474
142.095
136.427
132.908
129.894
129.826
129.506
127.882
124.460
120.425
120.367
119.978
119.823
41.368
40.522
40.357
40.192
40.017
39.852
39.686
39.521
X : parts per Million : Carbon13



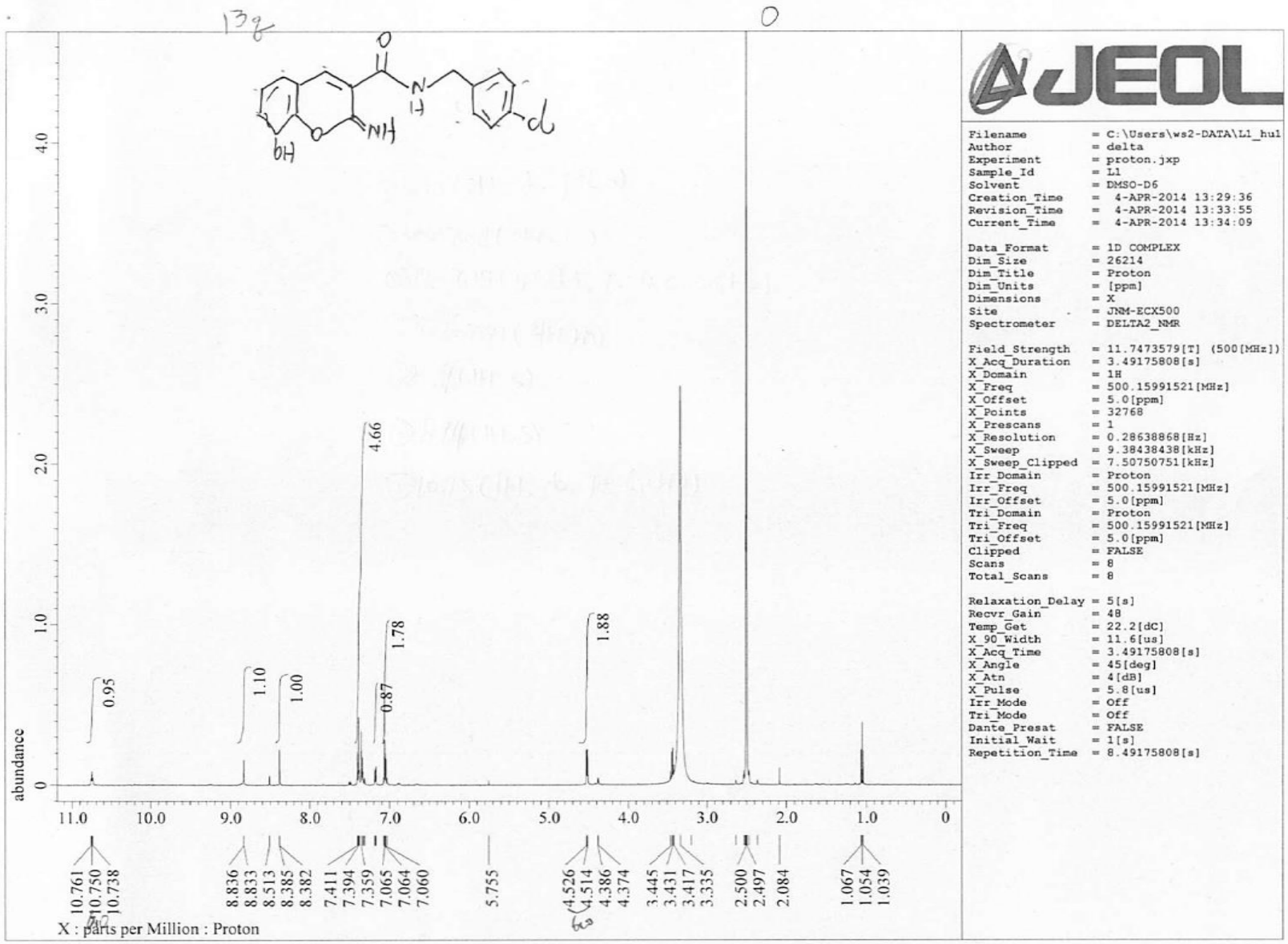
JEOL RESONANCE

Filename	= L1_hudawei140402H-2-1-5.jd
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 2-APR-2014 09:28:55
Revision_Time	= 2-APR-2014 09:31:02
Current_Time	= 2-APR-2014 09:31:30
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Set	= 21.3[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL RESONANCE

Filename	= L1_hu140408C-2-1-2.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 8-APR-2014 16:53:29
Revision_Time	= 8-APR-2014 16:57:43
Current_Time	= 8-APR-2014 16:58:28
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 103
Total_Scans	= 103
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.9[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL

```
Filename          = C:\Users\ws2-DATA\L1_hul
Author            = delta
Experiment        = proton.jxp
Sample_Id         = L1
Solvent           = DMSO-D6
Creation_Time     =  4-APR-2014 13:29:36
Revision_Time     =  4-APR-2014 13:33:55
Current_Time      =  4-APR-2014 13:34:09

Data_Format       = 1D COMPLEX
Dim_Size          = 26214
Dim_Title         = Proton
Dim_Units         = [ppm]
Dimensions        = X
Site              = JNM-ECX500
Spectrometer      = DELTA2_NMR

Field_Strength    = 11.7473579[T] (500[MHz])
X_Acq_Duration    = 3.49175808[s]
X_Domain          = 1H
X_Freq            = 500.15991521[MHz]
X_Offset          = 5.0[ppm]
X_Points          = 32768
X_Prescans        = 1
X_Resolution      = 0.28638868[Hz]
X_Sweep           = 9.38438438[kHz]
X_Sweep_Clipped   = 7.50750751[kHz]
Irr_Domain        = Proton
Irr_Freq          = 500.15991521[MHz]
Irr_Offset        = 5.0[ppm]
Tri_Domain        = Proton
Tri_Freq          = 500.15991521[MHz]
Tri_Offset        = 5.0[ppm]
Clipped           = FALSE
Scans             = 8
Total_Scans       = 8

Relaxation_Delay  = 5[s]
Recvr_Gain        = 48
Temp_Get          = 22.2[dC]
X_90_Width        = 11.6[us]
X_Acq_Time        = 3.49175808[s]
X_Angle           = 45[deg]
X_Atn             = 4[dB]
X_Pulse           = 5.8[us]
Irr_Mode          = Off
Tri_Mode          = Off
Dante_Presat      = FALSE
Initial_Wait      = 1[s]
Repetition_Time   = 8.49175808[s]
```

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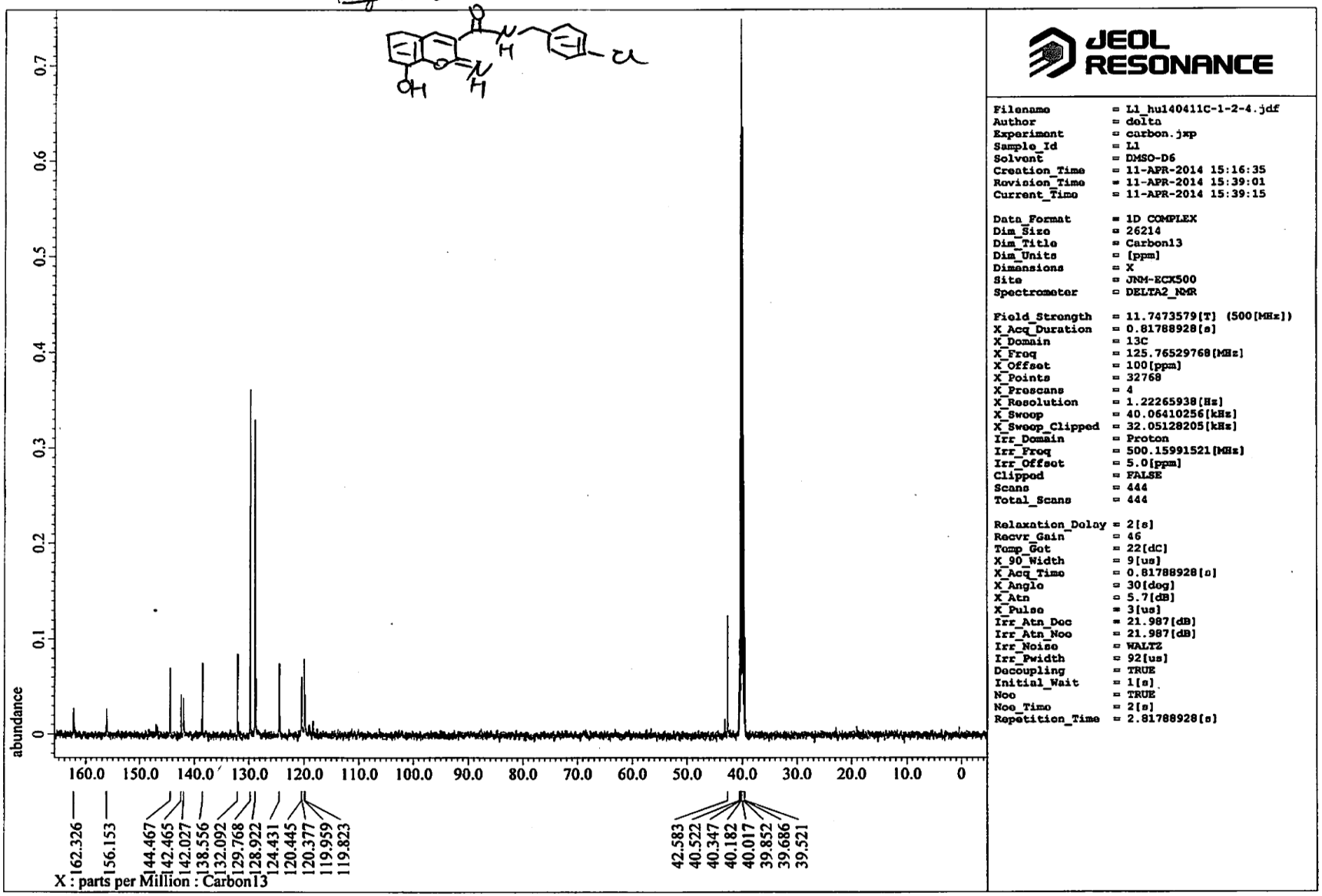
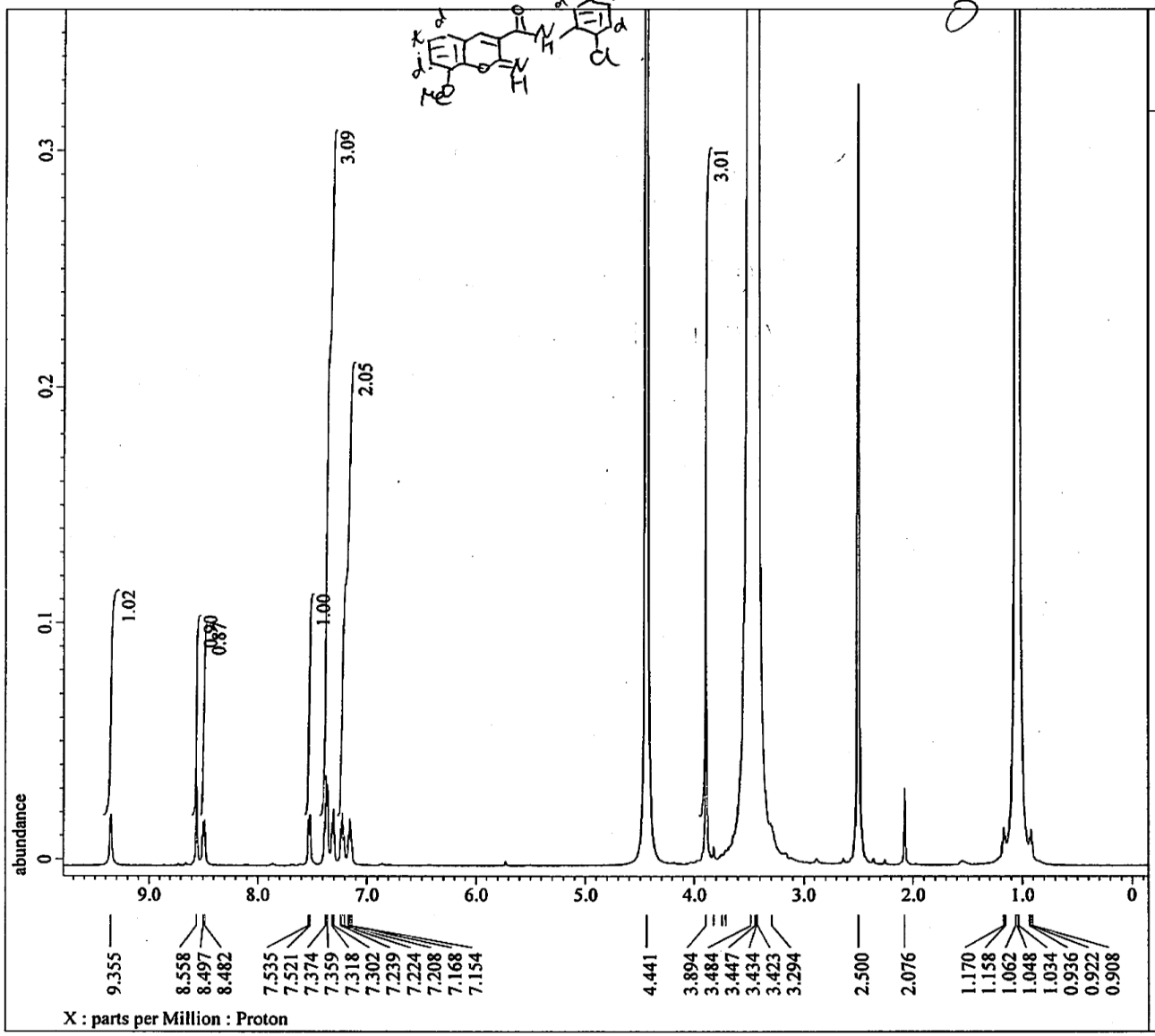


JEOL RESONANCE

Filename	= L1_hu140411C-1-2-4.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 11-APR-2014 15:16:35
Revision_Time	= 11-APR-2014 15:39:01
Current_Time	= 11-APR-2014 15:39:15
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 444
Total_Scans	= 444
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Set	= 22[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL RESONANCE

Filename	= L1_hu141223H-2-1-6.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 23-DEC-2014 16:44:38
Revision_Time	= 23-DEC-2014 16:47:20
Current_Time	= 23-DEC-2014 16:47:33
Data_Format	= 1D COMPLEX
Dim_Size	= 13107
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 1.74587904[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 16384
X_Prescans	= 1
X_Resolution	= 0.57277737[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 32
Total_Scans	= 32
Relaxation_Delay	= 5[s]
Recvr_Gain	= 26
Temp_Get	= 20.9[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 1.74587904[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 6.74587904[s]

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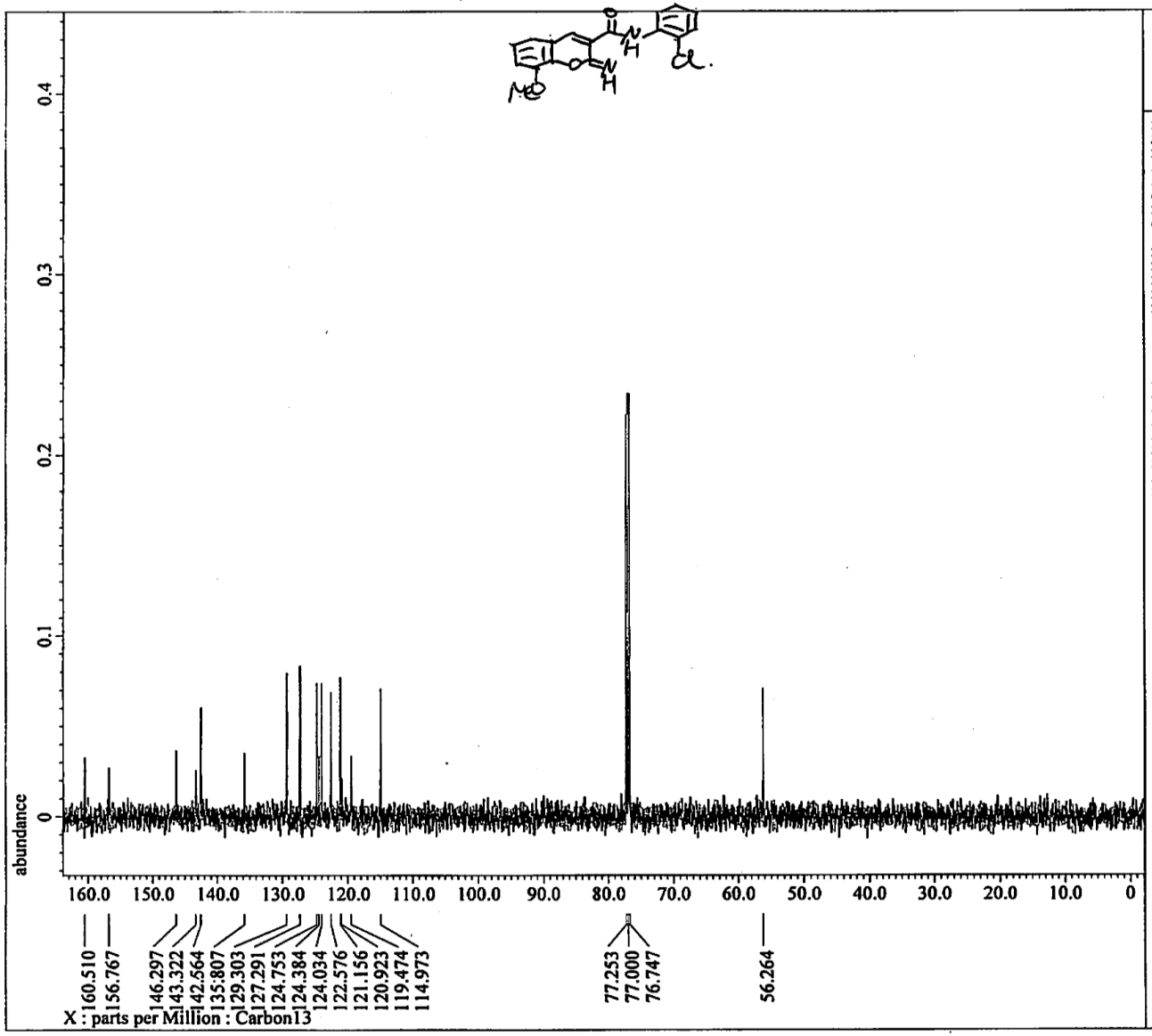
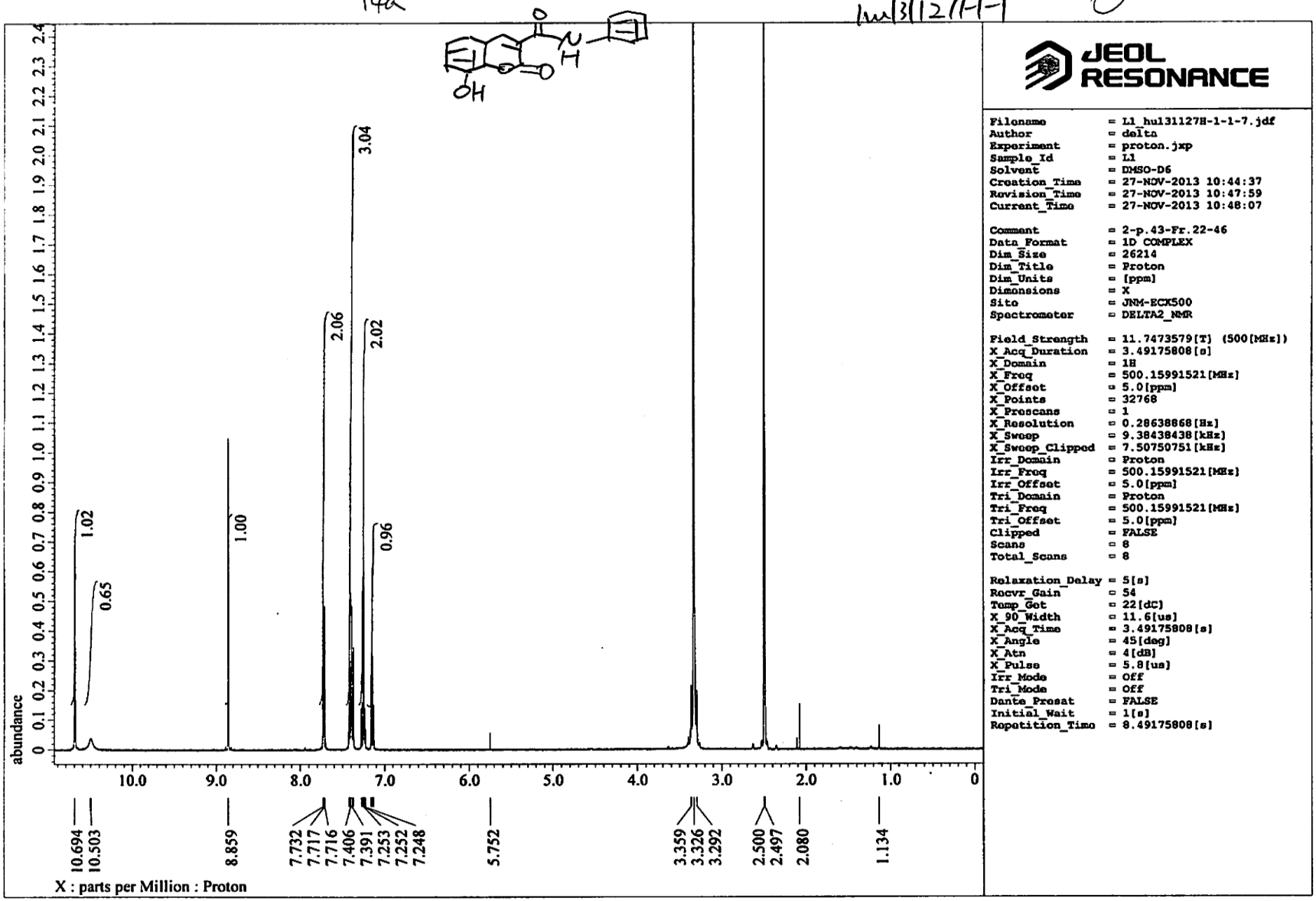


JEOL RESONANCE

Filename	= L1_hu141225C-2-1-8.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= CHLOROFORM-D
Creation_Time	= 25-DEC-2014 14:35:11
Revision_Time	= 25-DEC-2014 14:41:52
Current_Time	= 25-DEC-2014 14:42:23
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 152
Total_Scans	= 152
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Set	= 22.8[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

14a

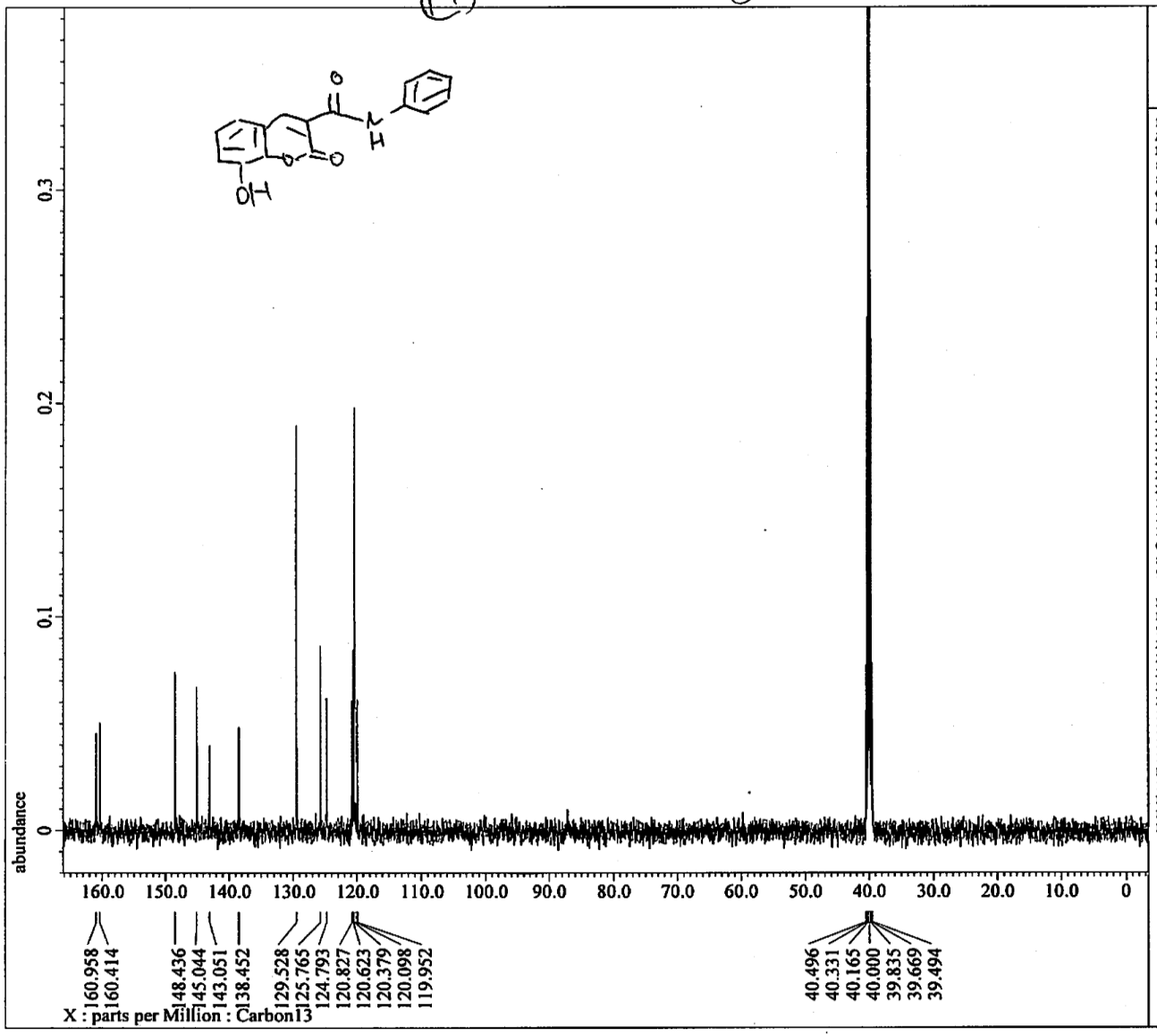


lw131127H-1

JEOL RESONANCE

Filename	= L1_hu131127H-1-1-7.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 27-NOV-2013 10:44:37
Revision_Time	= 27-NOV-2013 10:47:59
Current_Time	= 27-NOV-2013 10:48:07
Comment	= 2-p.43-Fr.22-46
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 54
Temp_Get	= 22[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

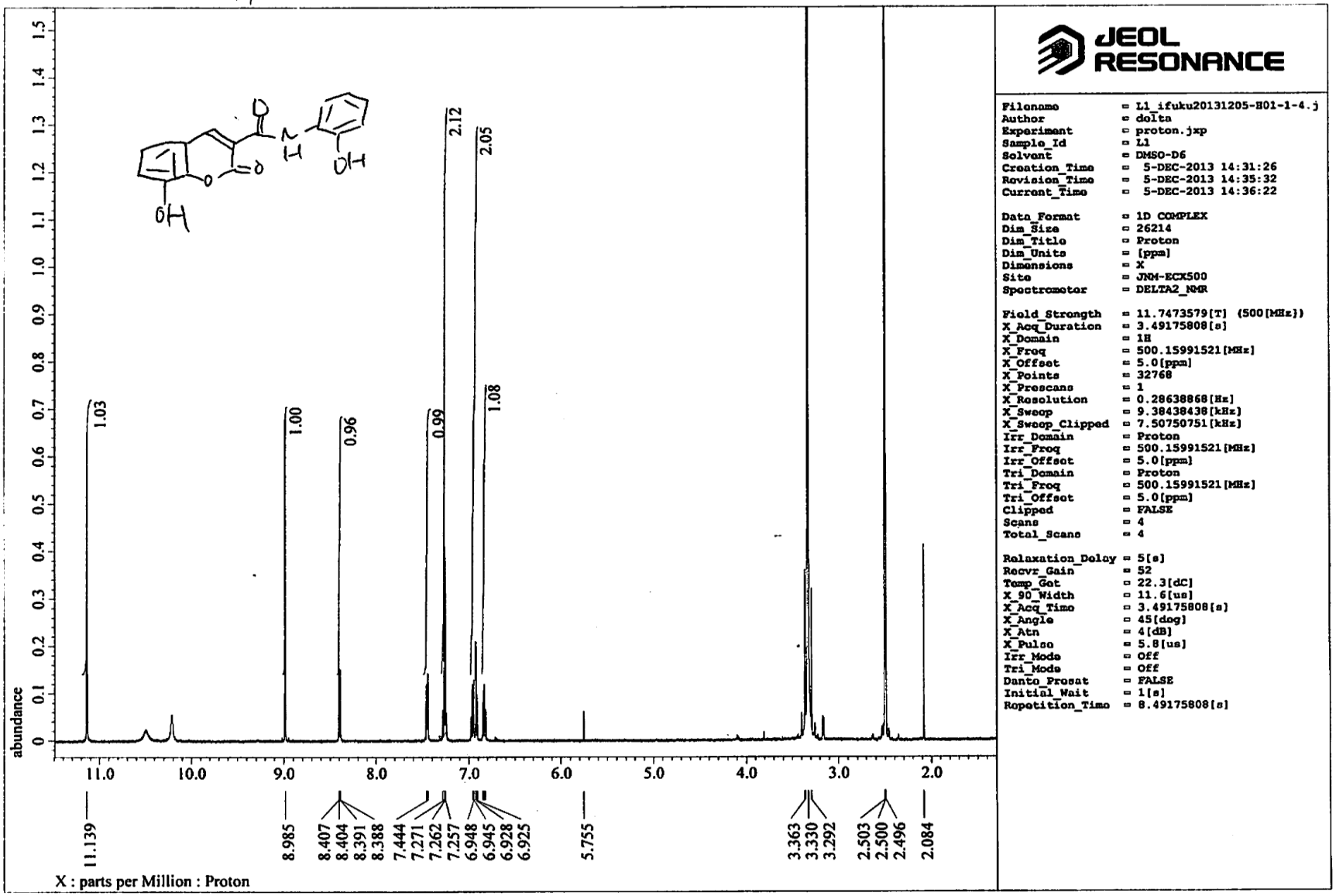
(9) 14a D

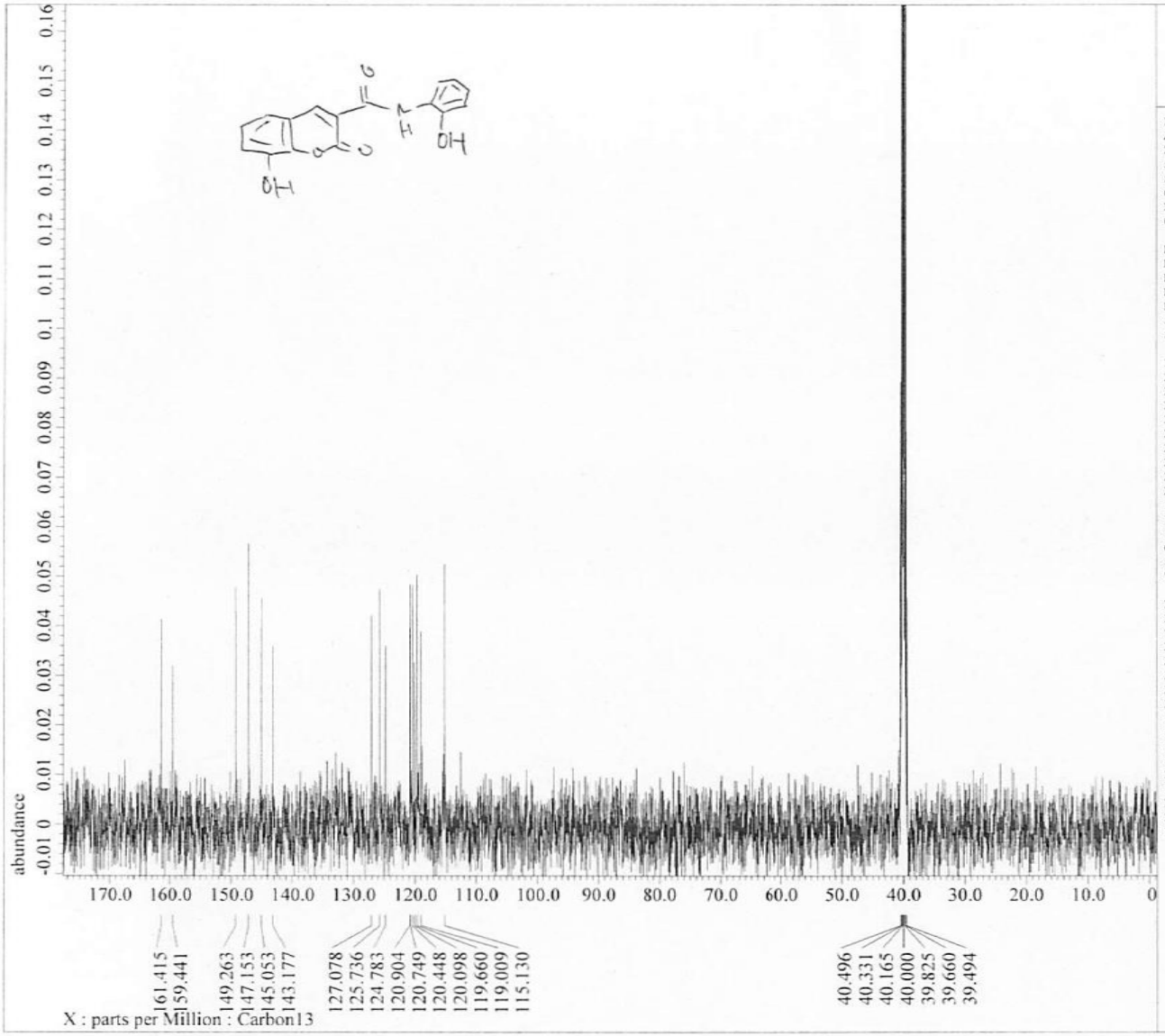


JEOL RESONANCE

Filename	= L1_ifuku20131225-C02-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 25-DEC-2013 13:36:42
Revision_Time	= 25-DEC-2013 13:44:59
Current_Time	= 25-DEC-2013 13:45:18
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 266
Total_Scans	= 266
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 22.2[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

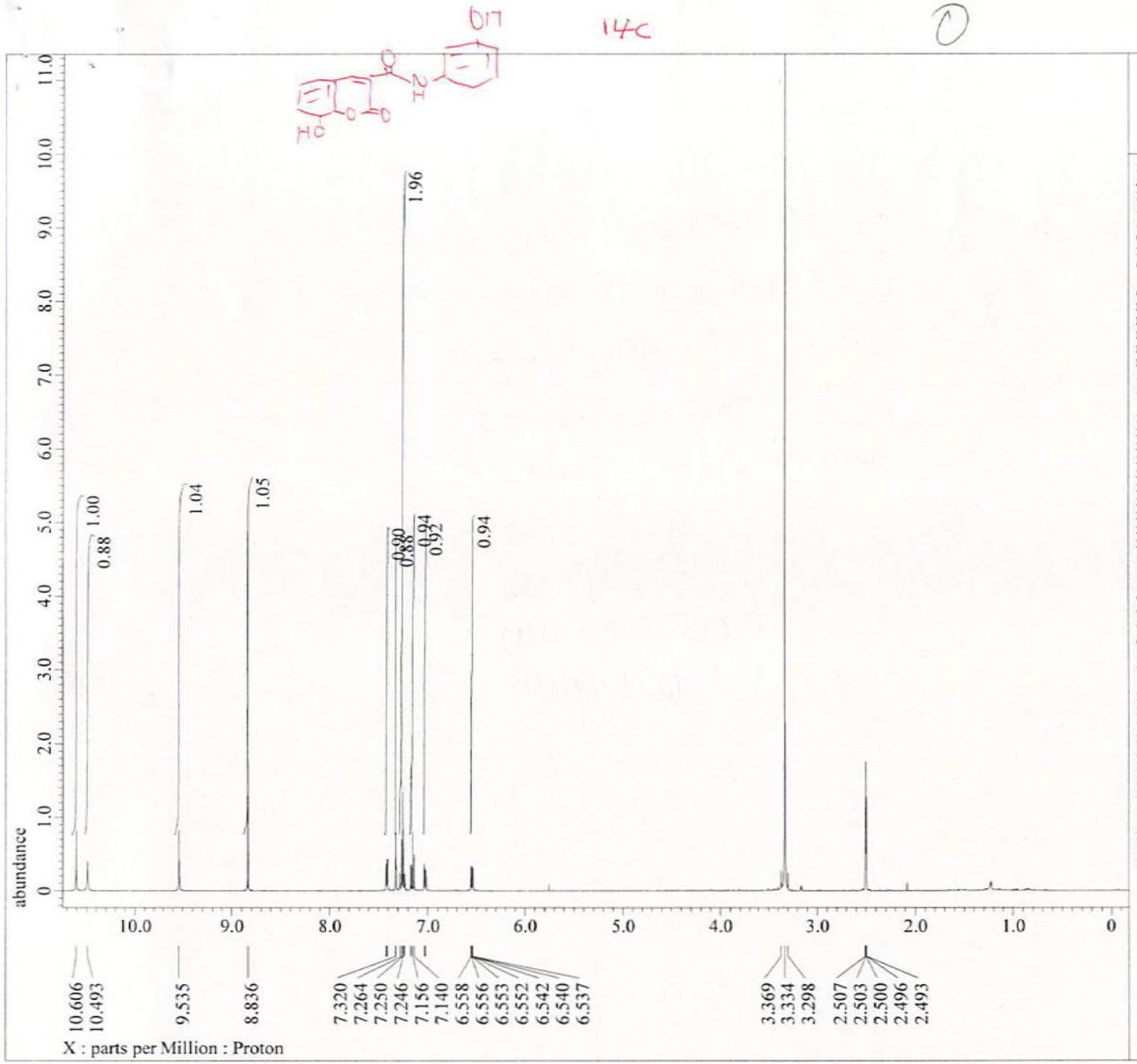
14b


JEOL RESONANCE
Filename = L1_ifuku20131205-H01-1-4.j
Author = dolta
Experiment = proton.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 5-DEC-2013 14:31:26
Revision_Time = 5-DEC-2013 14:35:32
Current_Time = 5-DEC-2013 14:36:22
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Proton
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 3.49175808[s]
X_Domain = 1H
X_Freq = 500.15991521[MHz]
X_Offset = 5.0[ppm]
X_Points = 32768
X_Prescans = 1
X_Resolution = 0.28638868[Hz]
X_Sweep = 9.38438438[kHz]
X_Sweep_Clipped = 7.50750751[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Tri_Domain = Proton
Tri_Freq = 500.15991521[MHz]
Tri_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 4
Total_Scans = 4
Relaxation_Delay = 5[s]
Recvr_Gain = 52
Temp_Get = 22.3[dC]
X_90_Width = 11.6[us]
X_Acq_Time = 3.49175808[s]
X_Angle = 45[deg]
X_Atn = 4[dB]
X_Pulse = 5.8[us]
Irr_Mode = Off
Tri_Mode = Off
Dante_Presat = FALSE
Initial_Wait = 1[s]
RopetitIon_Time = 8.49175808[s]
abundance
1.03
1.00
0.96
0.99
2.12
2.05
1.08
11.139
8.985
8.407
8.404
8.391
8.388
7.444
7.271
7.262
7.257
6.948
6.945
6.928
6.925
5.755
3.363
3.330
3.292
2.503
2.500
2.496
2.084
X : parts per Million : Proton



JEOL RESONANCE

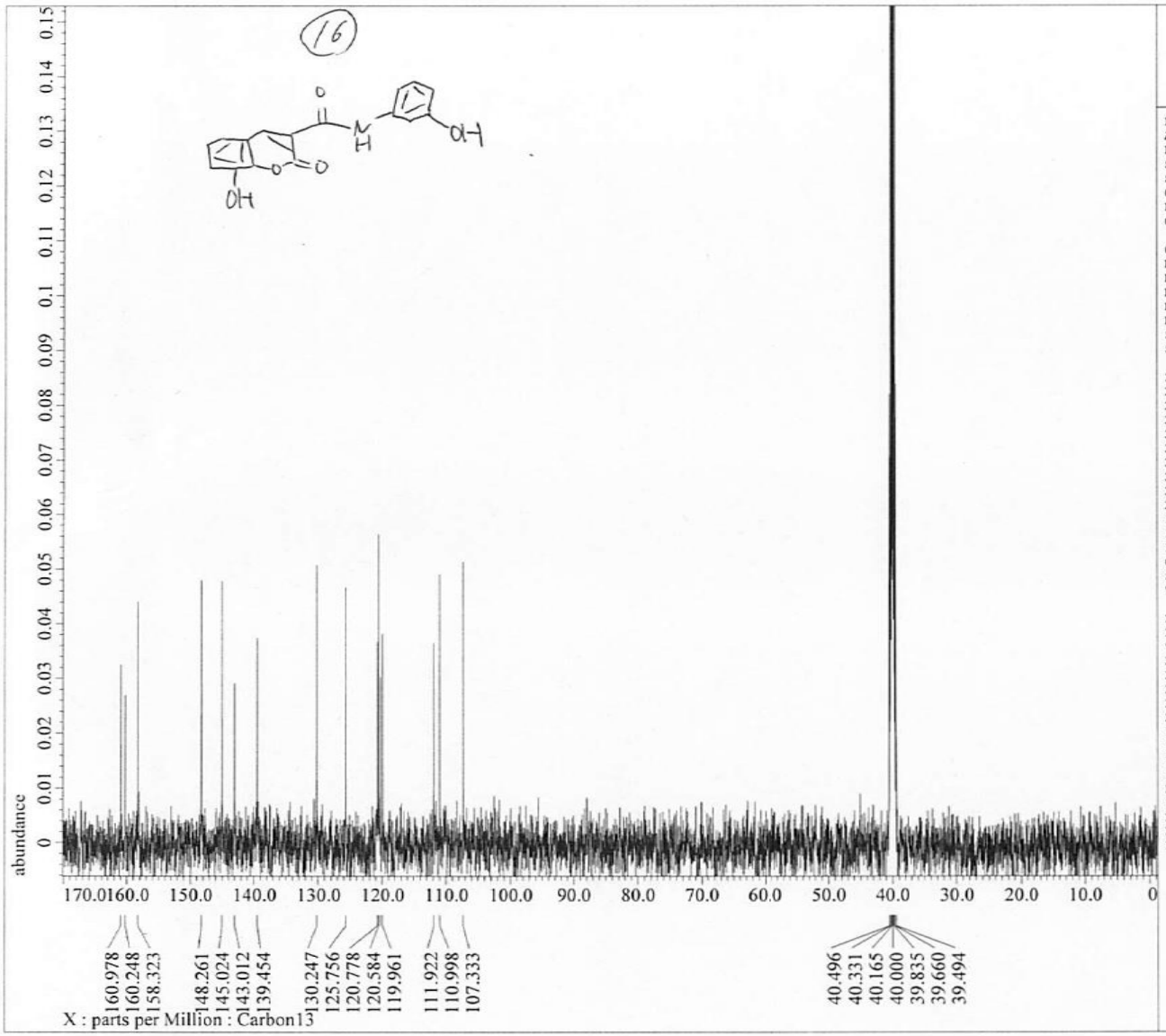
Filename	= L1_ifuku20131218-C02-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 18-DEC-2013 14:06:31
Revision_Time	= 18-DEC-2013 14:10:15
Current_Time	= 18-DEC-2013 14:10:37
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 66
Total_Scans	= 66
Relaxation_Delay	= 2[s]
Recvr_Gain	= 44
Temp_Get	= 22.7[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL RESONANCE

Filename	= L1_ao1126H-1-1-7.jdf
Author	= dolta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 26-NOV-2013 20:18:19
Revision_Time	= 26-NOV-2013 20:21:34
Current_Time	= 26-NOV-2013 20:21:59
Comment	= 2-p.43-Fr.22-46
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 7
Total_Scans	= 7
Relaxation_Delay	= 5[s]
Recvr_Gain	= 50
Temp_Get	= 22.3[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

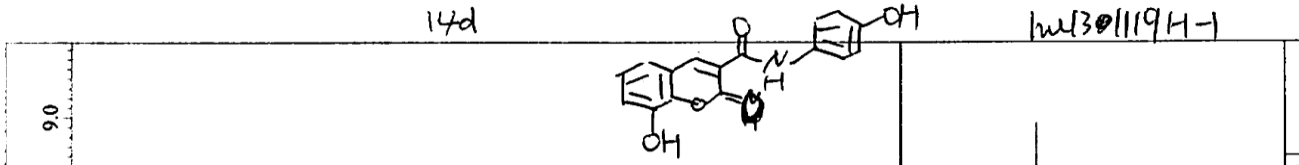
14C D



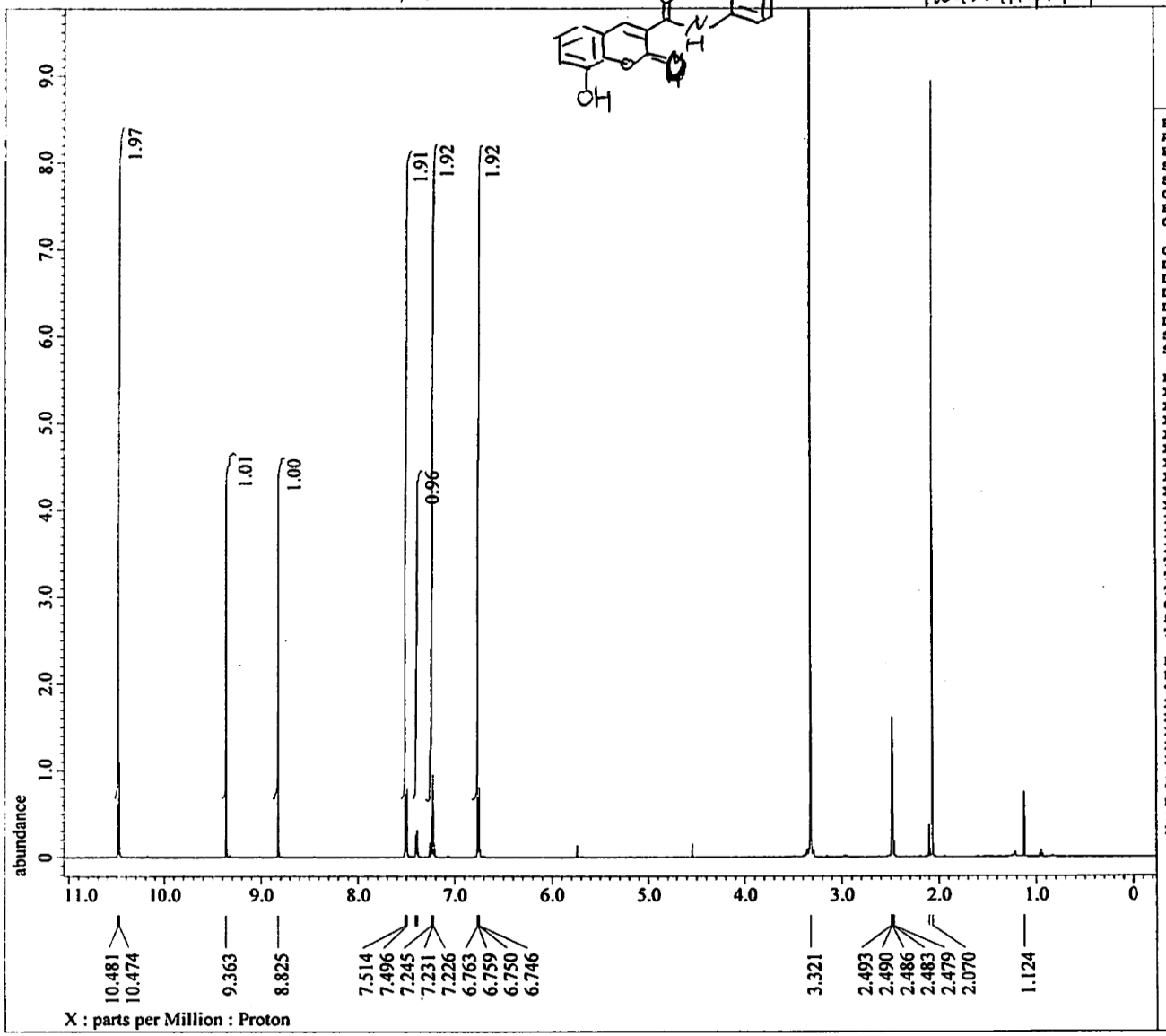
JEOL RESONANCE

Filename	= L1_ifuku20140124-C01-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 24-JAN-2014 13:04:56
Revision_Time	= 24-JAN-2014 13:12:30
Current_Time	= 24-JAN-2014 13:13:06
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 246
Total_Scans	= 246
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 22.3[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

14d



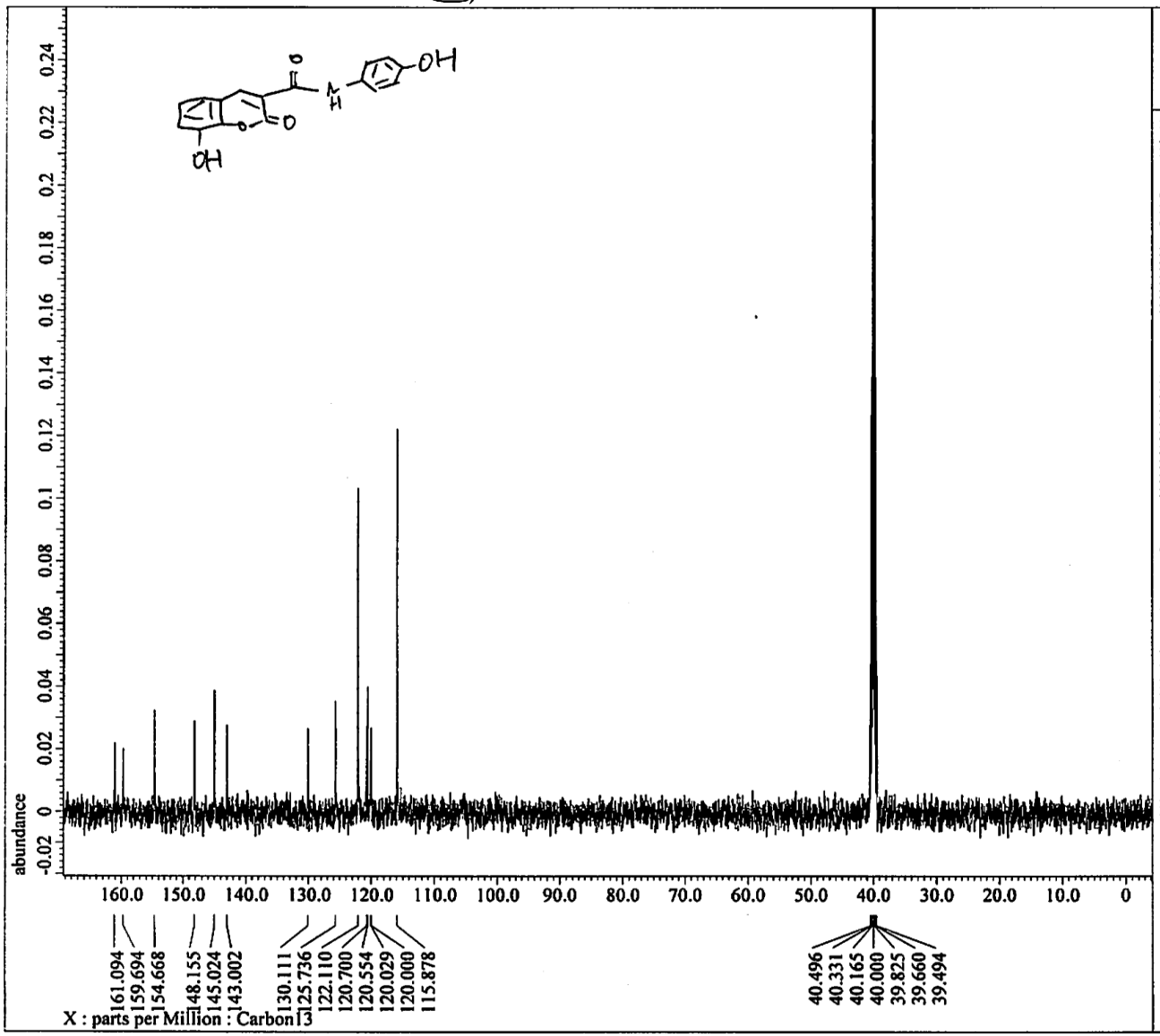
hul30119H-1



JEOL RESONANCE

Filename	L1_hul31119H-1-1-7.jdf
Author	dolta
Experiment	proton.jxp
Sample_Id	L1
Solvent	DMSO-D6
Creation_Time	19-NOV-2013 13:37:29
Revision_Time	19-NOV-2013 13:41:49
Current_Time	19-NOV-2013 13:42:08
Comment	2-p.43-Fr.22-46
Data_Format	1D COMPLEX
Dim_Size	26214
Dim_Title	Proton
Dim_Units	[ppm]
Dimensions	X
Site	JNM-ECX500
Spectrometer	DELTA2_NMR
Field_Strength	11.7473579[T] (500[MHz])
X_Acq_Duration	3.49175808[s]
X_Domain	1H
X_Freq	500.15991521[MHz]
X_Offset	5.0[ppm]
X_Points	32768
X_Prescans	1
X_Resolution	0.28638868[Hz]
X_Sweep	9.38438438[kHz]
X_Sweep_Clipped	7.50750751[kHz]
Irr_Domain	Proton
Irr_Freq	500.15991521[MHz]
Irr_Offset	5.0[ppm]
Tri_Domain	Proton
Tri_Freq	500.15991521[MHz]
Tri_Offset	5.0[ppm]
Clipped	FALSE
Scans	8
Total_Scans	8
Relaxation_Delay	5[s]
Recvr_Gain	50
Temp_Get	21.2[dC]
X_90_Width	11.6[us]
X_Acq_Time	3.49175808[s]
X_Angle	45[deg]
X_Atn	4[dB]
X_Pulse	5.8[us]
Irr_Mode	Off
Tri_Mode	Off
Dante_Presat	FALSE
Initial_Wait	1[s]
Repetition_Time	8.49175808[s]

14d (19)

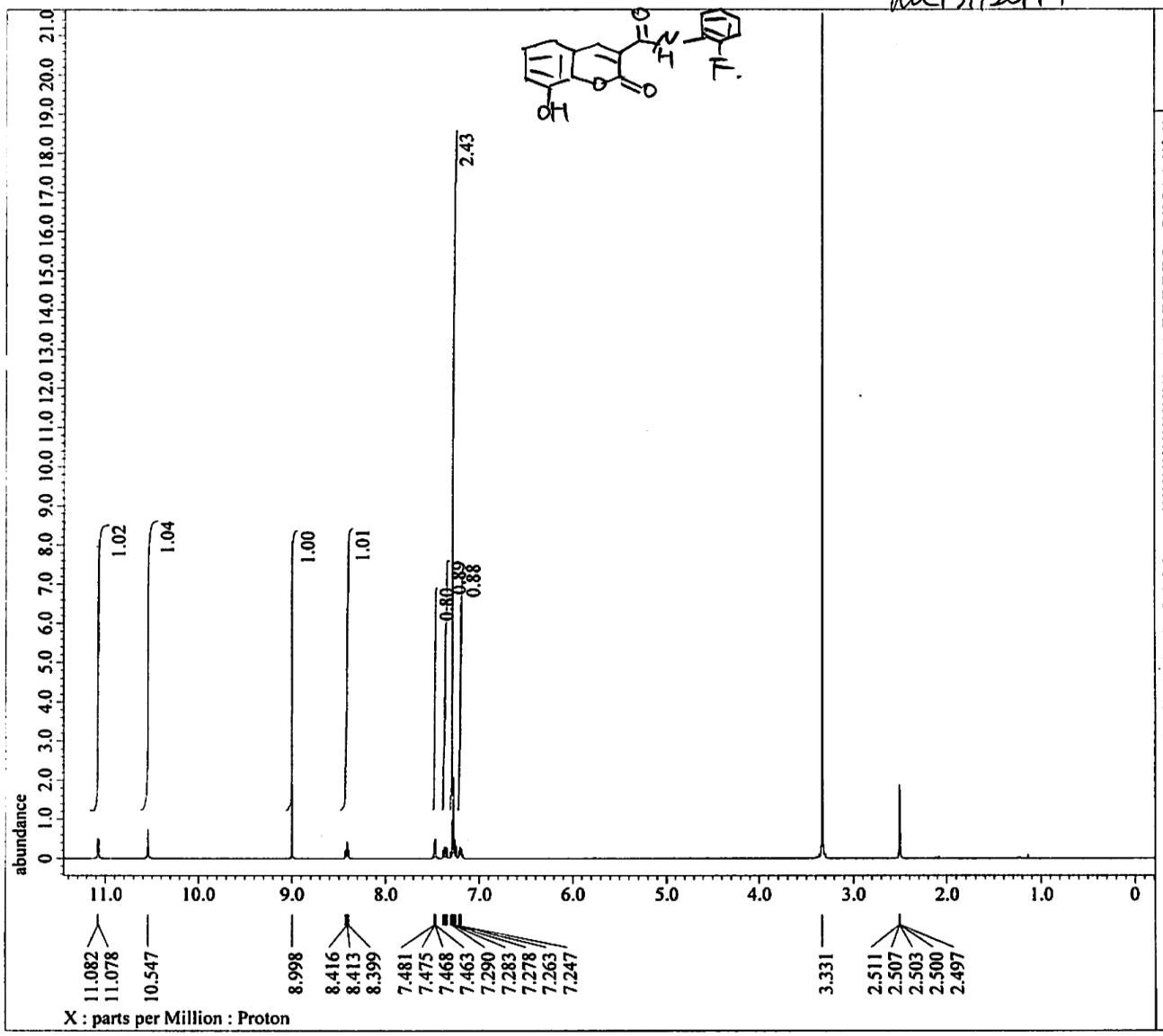


JEOL RESONANCE

Filename	= L1_ifuku20131225-C03-1-4.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 25-DEC-2013 15:38:53
Revision_Time	= 25-DEC-2013 15:45:46
Current_Time	= 25-DEC-2013 15:46:08
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 215
Total_Scans	= 215
Relaxation_Delay	= 1[s]
Recvr_Gain	= 44
Temp_Get	= 22.3[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

142

hu131126H-1

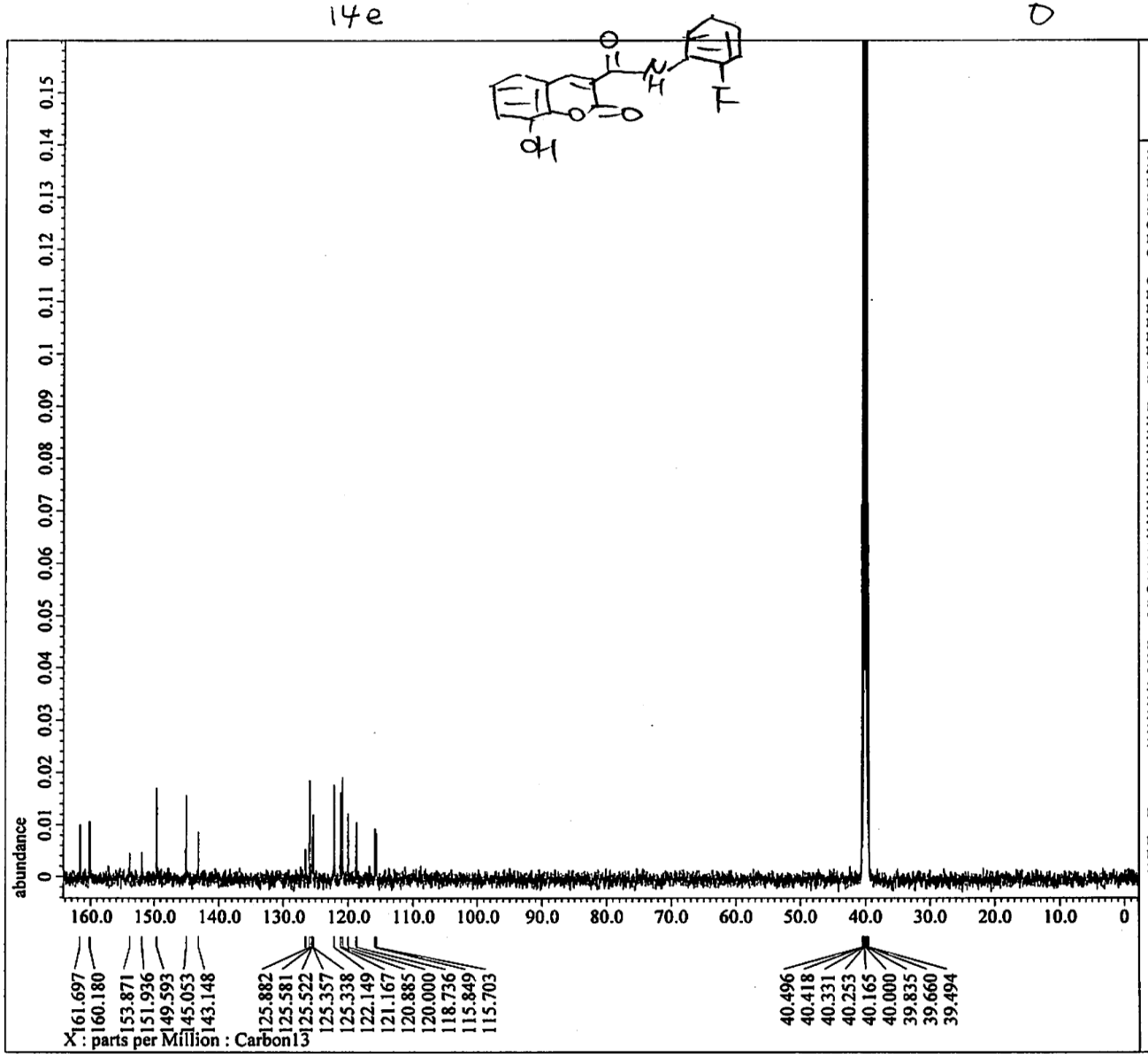


JEOL RESONANCE

Filename	= L1_hu131126H-1-1-7.jdf
Author	= dolta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 26-NOV-2013 16:44:05
Revision_Time	= 26-NOV-2013 16:46:49
Current_Time	= 26-NOV-2013 16:47:00
Comment	= 2-p.43-Fr.22-46
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 5
Total_Scans	= 5
Relaxation_Delay	= 5[s]
Recvr_Gain	= 52
Temp_Get	= 22.9[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

14e

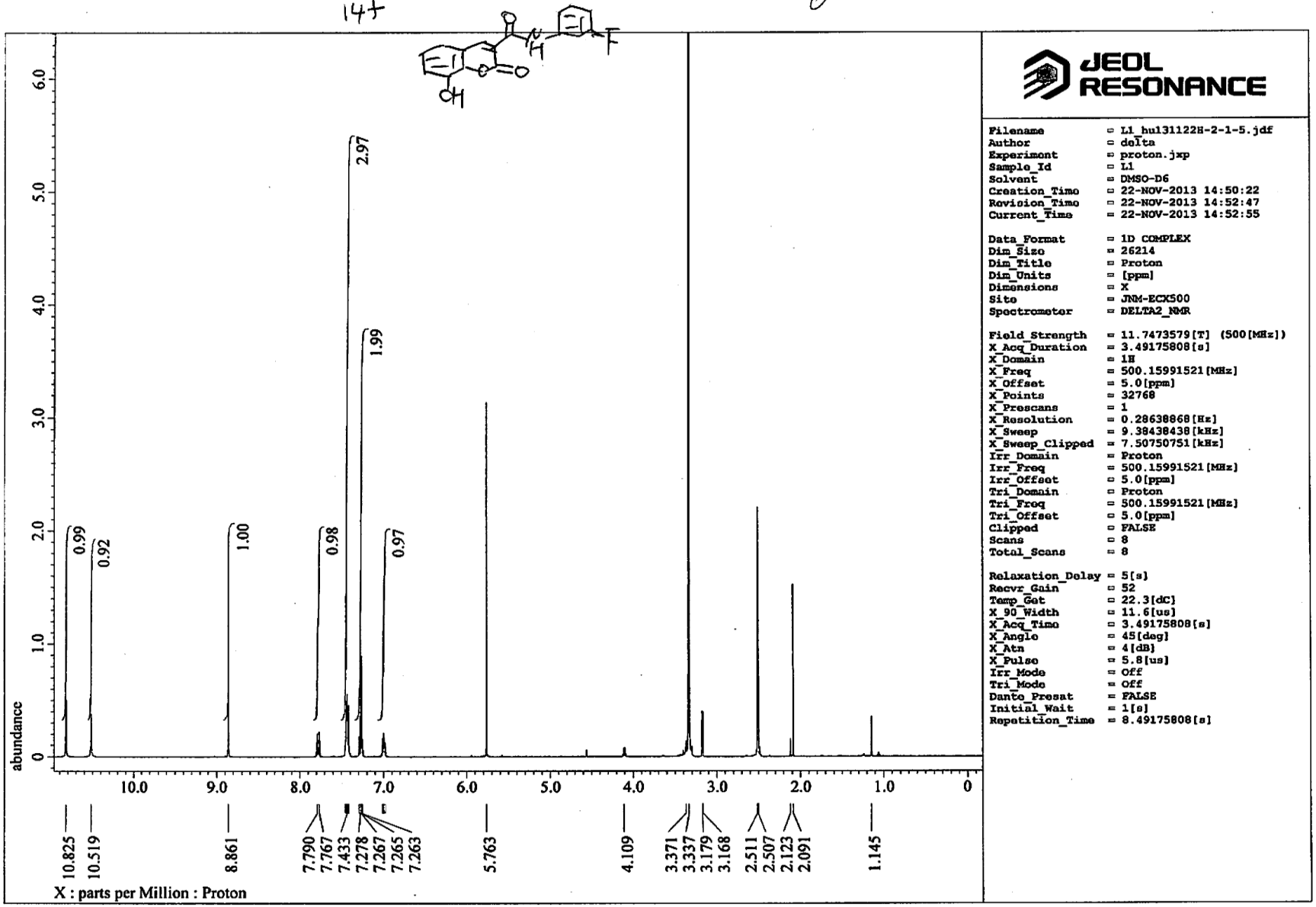
D



JEOL RESONANCE

Filename	= L1_hul40205C-5-1-4.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 5-FEB-2014 21:07:02
Revision_Time	= 5-FEB-2014 22:58:18
Current_Time	= 5-FEB-2014 22:59:28
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 3600
Total_Scans	= 3600
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 22.3[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

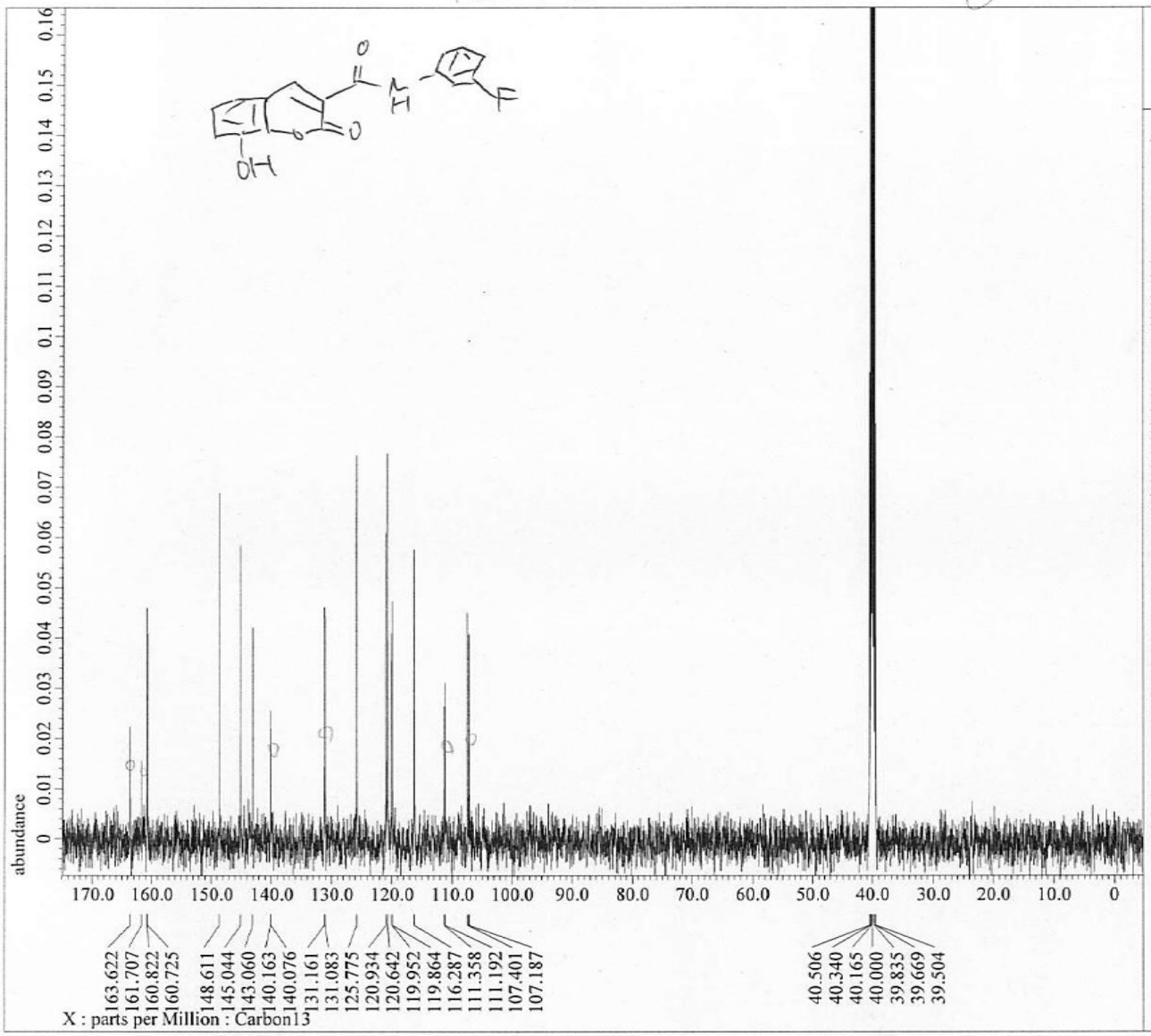
14f



JEOL RESONANCE

Filename	= L1_hul31122H-2-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 22-NOV-2013 14:50:22
Revision_Time	= 22-NOV-2013 14:52:47
Current_Time	= 22-NOV-2013 14:52:55
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 52
Temp_Get	= 22.3[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

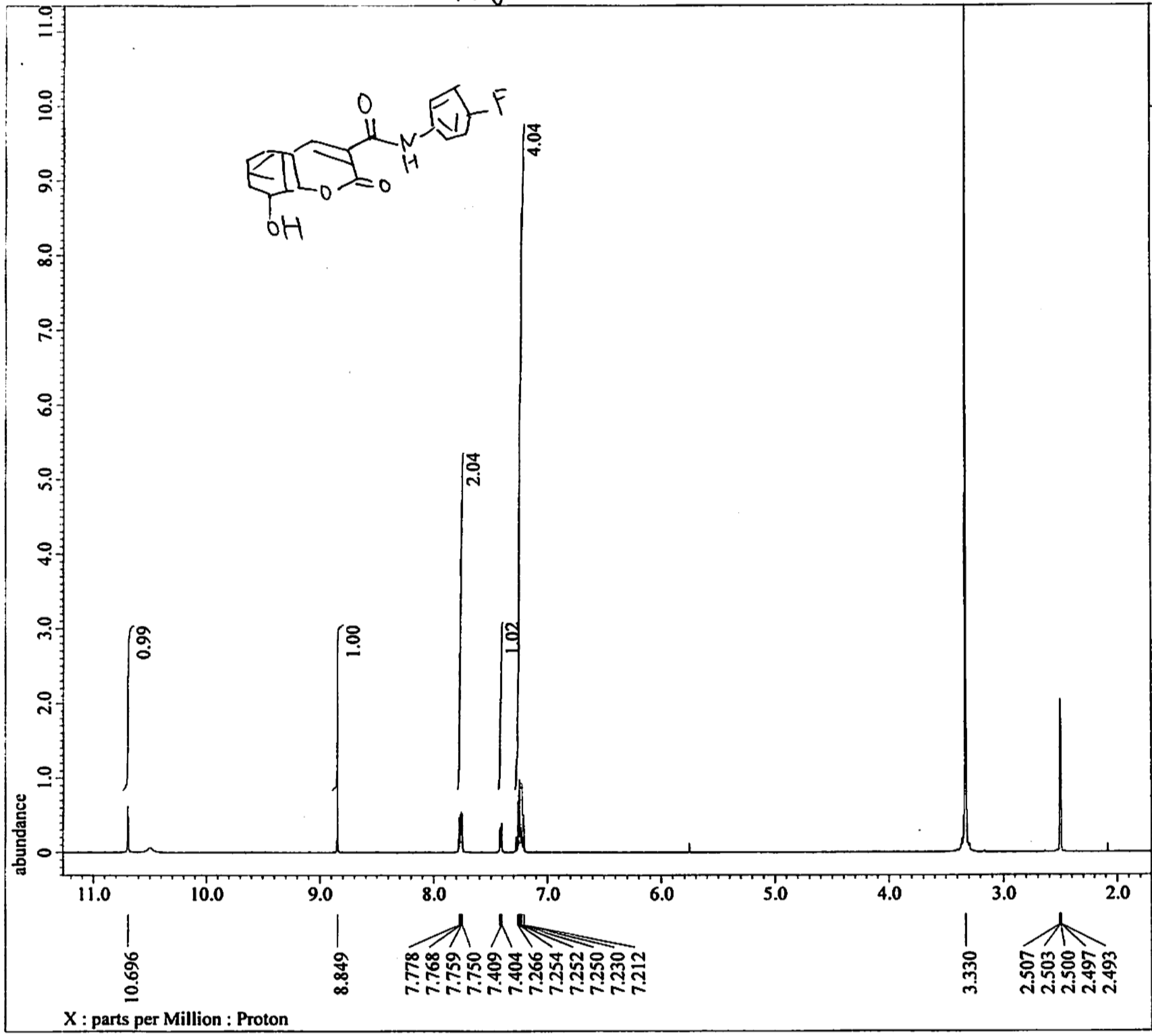
~~1Hz~~ 14f



JEOL RESONANCE

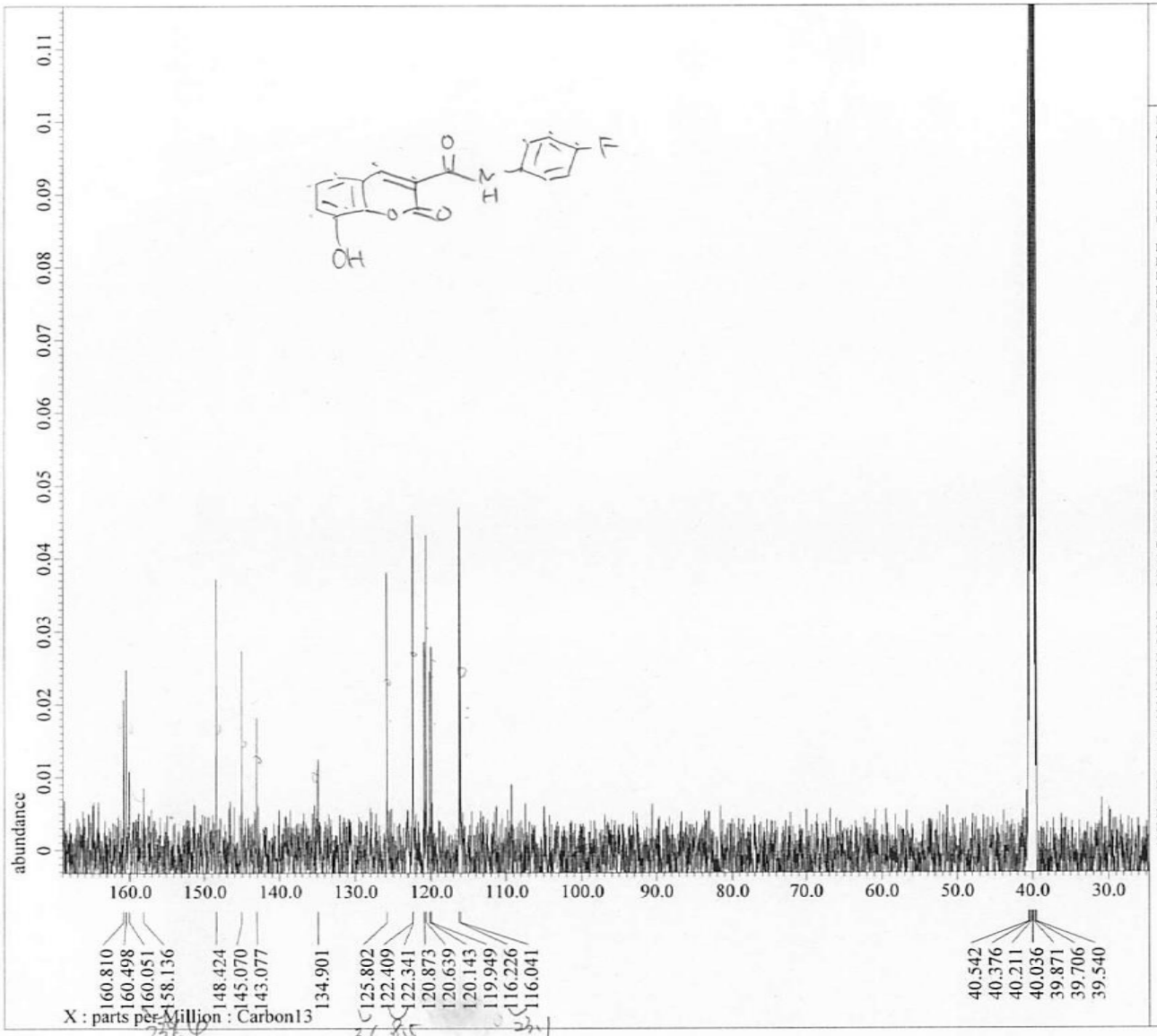
Filename	= L1_ifuku20140124-C02-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 24-JAN-2014 15:07:20
Revision_Time	= 24-JAN-2014 15:17:34
Current_Time	= 24-JAN-2014 15:18:31
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 343
Total_Scans	= 343
Relaxation_Delay	= 1[s]
Recvr_Gain	= 46
Temp_Get	= 22.3[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 1[s]
Repetition_Time	= 1.81788928[s]

14g ①　　CBR-2



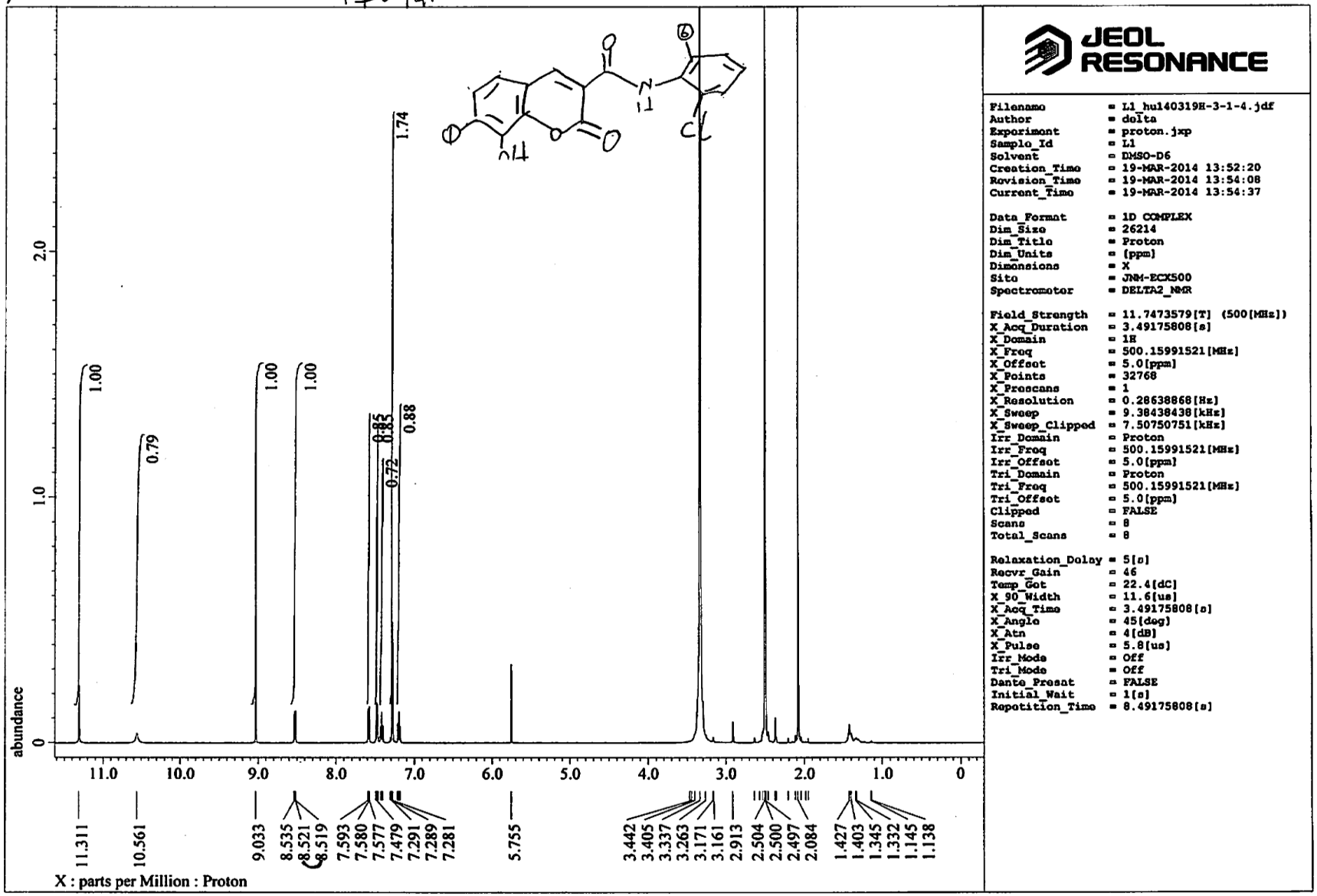
JEOL RESONANCE

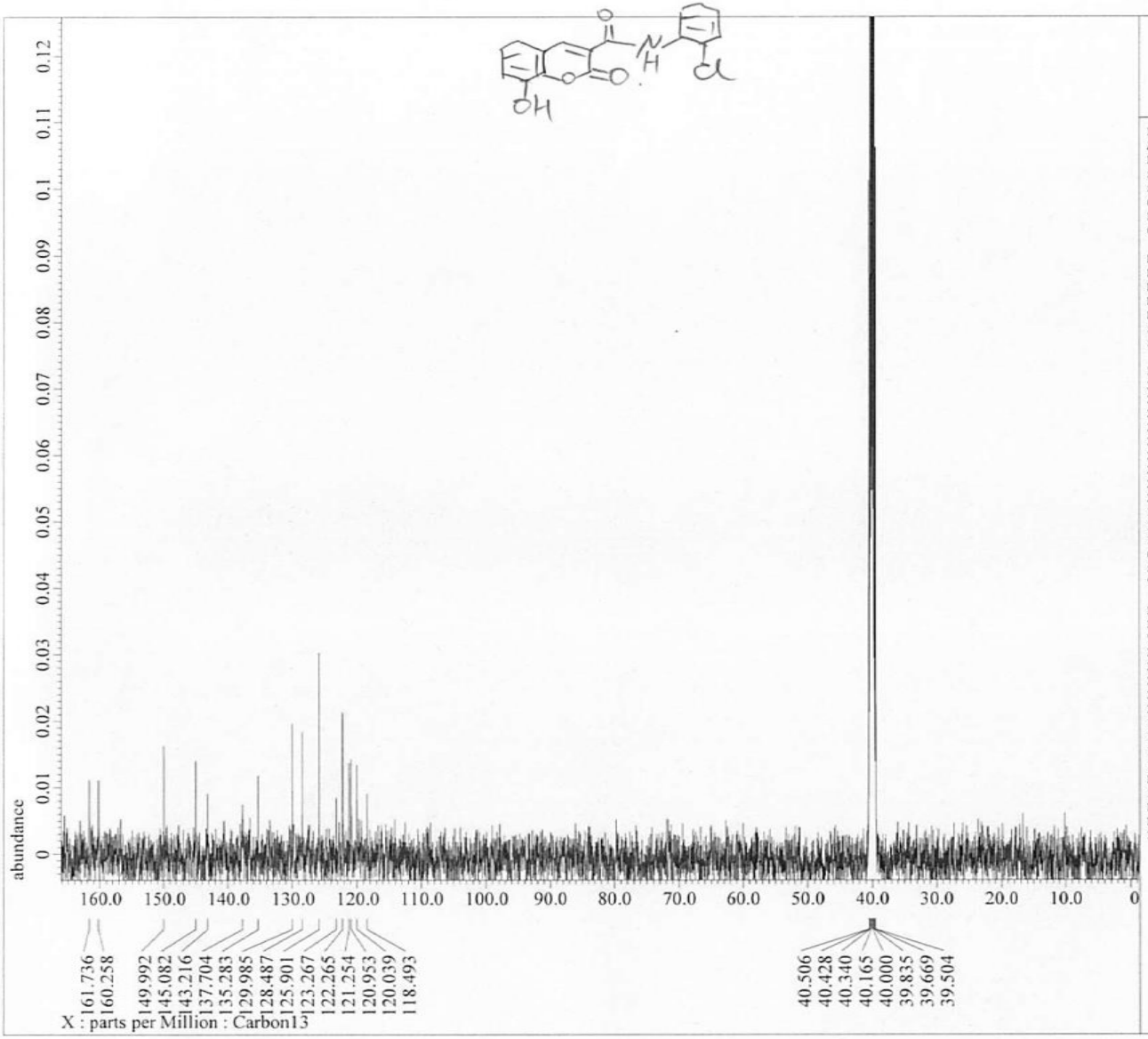
Filename	= L1_ifuku20131122-h01-1-4.j
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 22-NOV-2013 14:37:02
Revision_Time	= 22-NOV-2013 14:40:26
Current_Time	= 22-NOV-2013 14:40:37
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 4
Total_Scans	= 4
Relaxation_Delay	= 5[s]
Recvr_Gain	= 52
Temp_Get	= 22.1[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL RESONANCE

Filename	= L1_ifuku20131122-C01_copy2
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 22-NOV-2013 15:35:51
Revision_Time	= 22-NOV-2013 15:52:53
Current_Time	= 22-NOV-2013 15:53:34
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Incomplete_Copy	= TRUE
Scans	= 356
Total_Scans	= 356
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.6[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

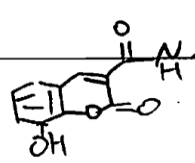

JEOL RESONANCE
Filename = L1_hu140319H-3-1-4.jdf
Author = delta
Experiment = proton.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 19-MAR-2014 13:52:20
Revision_Time = 19-MAR-2014 13:54:08
Current_Time = 19-MAR-2014 13:54:37
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Proton
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 3.49175808[s]
X_Domain = 1H
X_Freq = 500.15991521[MHz]
X_Offset = 5.0[ppm]
X_Points = 32768
X_Prescans = 1
X_Resolution = 0.28638868[Hz]
X_Sweep = 9.38438438[kHz]
X_Sweep_Clipped = 7.50750751[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Tri_Domain = Proton
Tri_Freq = 500.15991521[MHz]
Tri_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 8
Total_Scans = 8
Relaxation_Delay = 5[s]
Recvr_Gain = 46
Temp_Get = 22.4[dC]
X_90_Width = 11.6[us]
X_Acq_Time = 3.49175808[s]
X_Angle = 45[deg]
X_Atn = 4[dB]
X_Pulse = 5.8[us]
Irr_Mode = Off
Tri_Mode = Off
Dante_Presat = FALSE
Initial_Wait = 1[s]
Repetition_Time = 8.49175808[s]
abundance
X : parts per Million : Proton
1.00
0.79
1.00
1.00
0.85
0.85
0.72
1.74
0.88
11.311
10.561
9.033
8.535
8.521
8.519
7.593
7.580
7.577
7.479
7.291
7.289
7.281
5.755
3.442
3.405
3.337
3.263
3.171
3.161
2.913
2.504
2.500
2.497
2.084
1.427
1.403
1.345
1.332
1.145
1.138



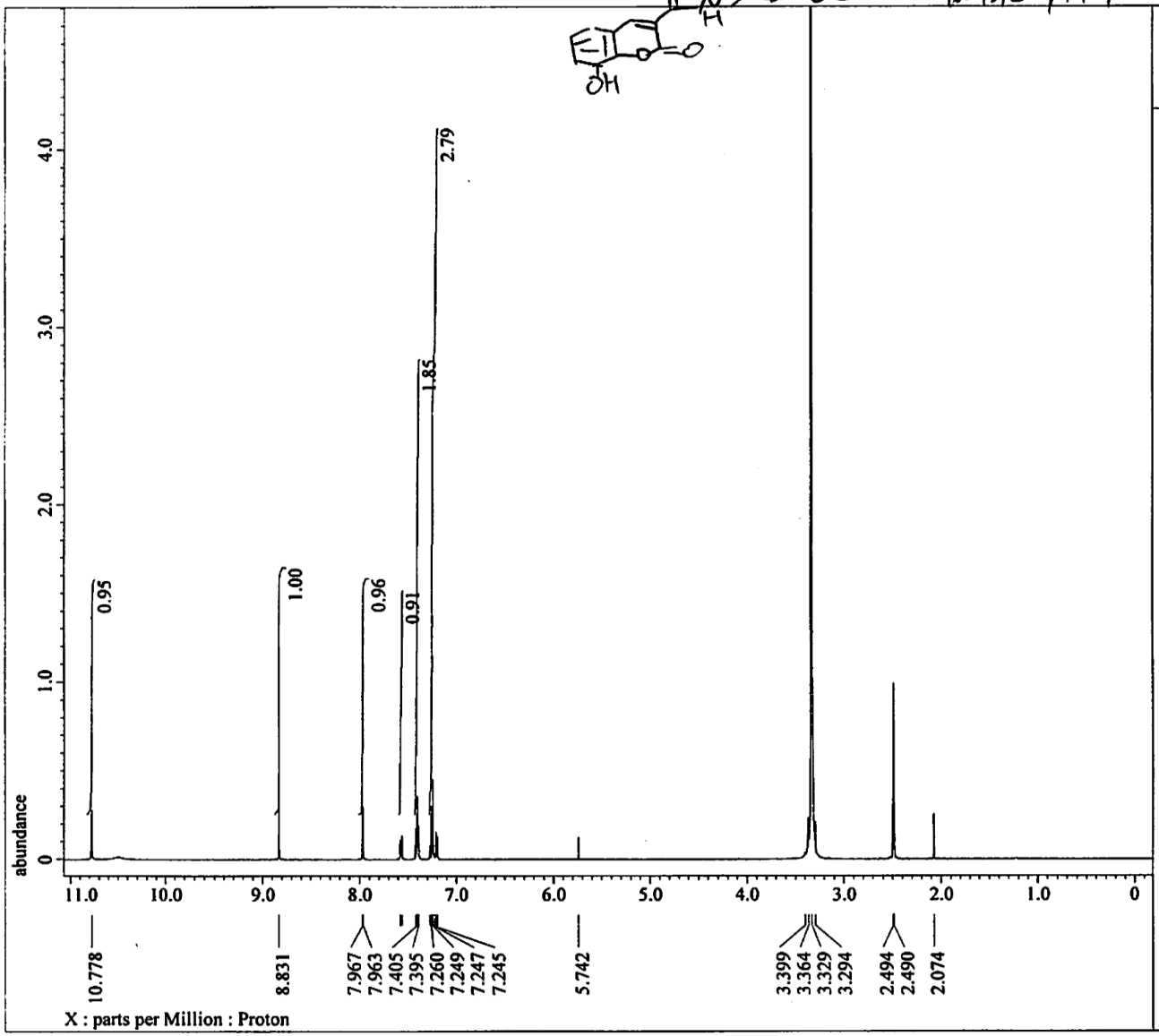
JEOL RESONANCE

Filename	= L1_hu140407C-3-1-5.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 7-APR-2014 15:04:59
Revision_Time	= 7-APR-2014 15:27:47
Current_Time	= 7-APR-2014 15:28:07
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 467
Total_Scans	= 467
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.1[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

14i

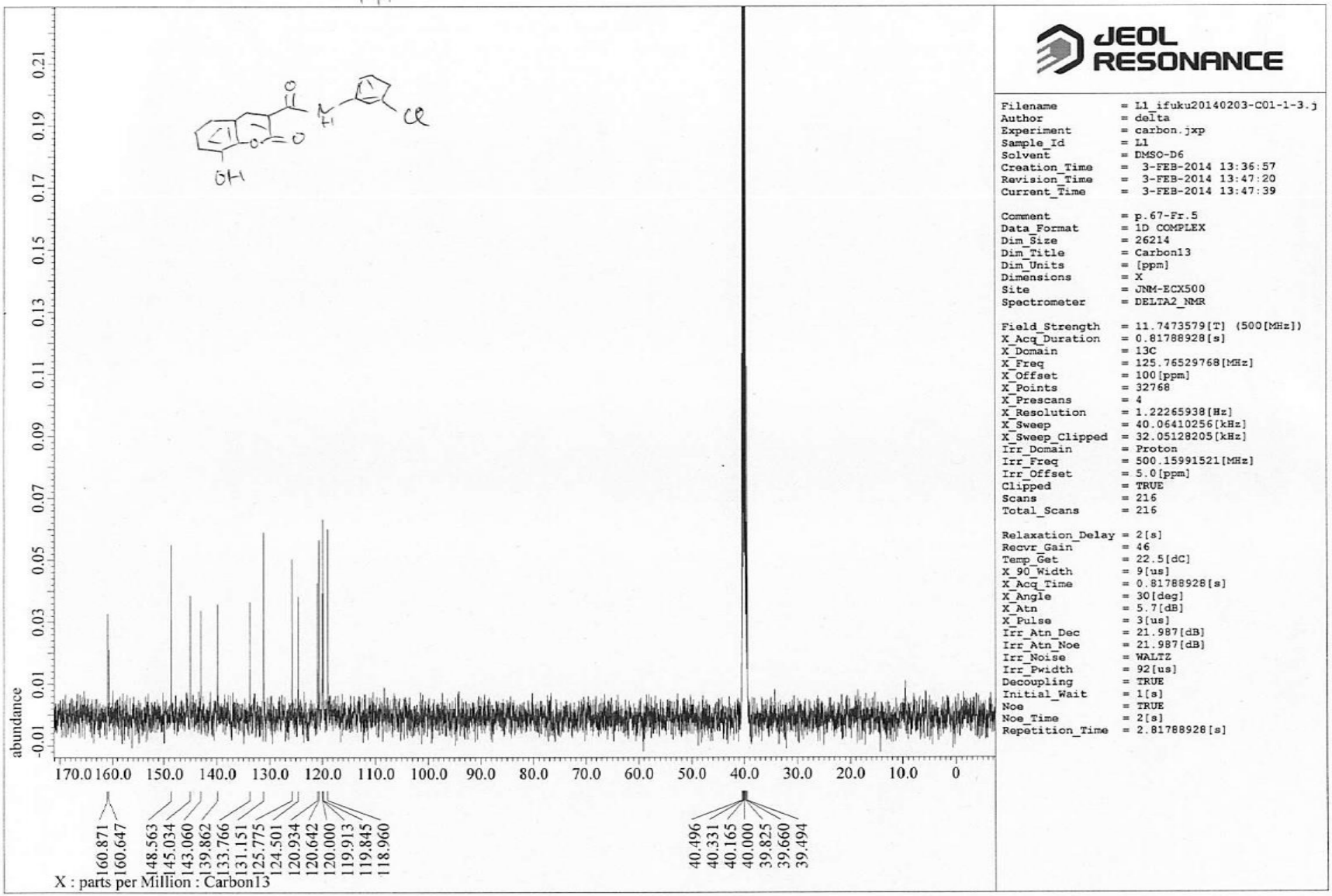


lw131227H-1



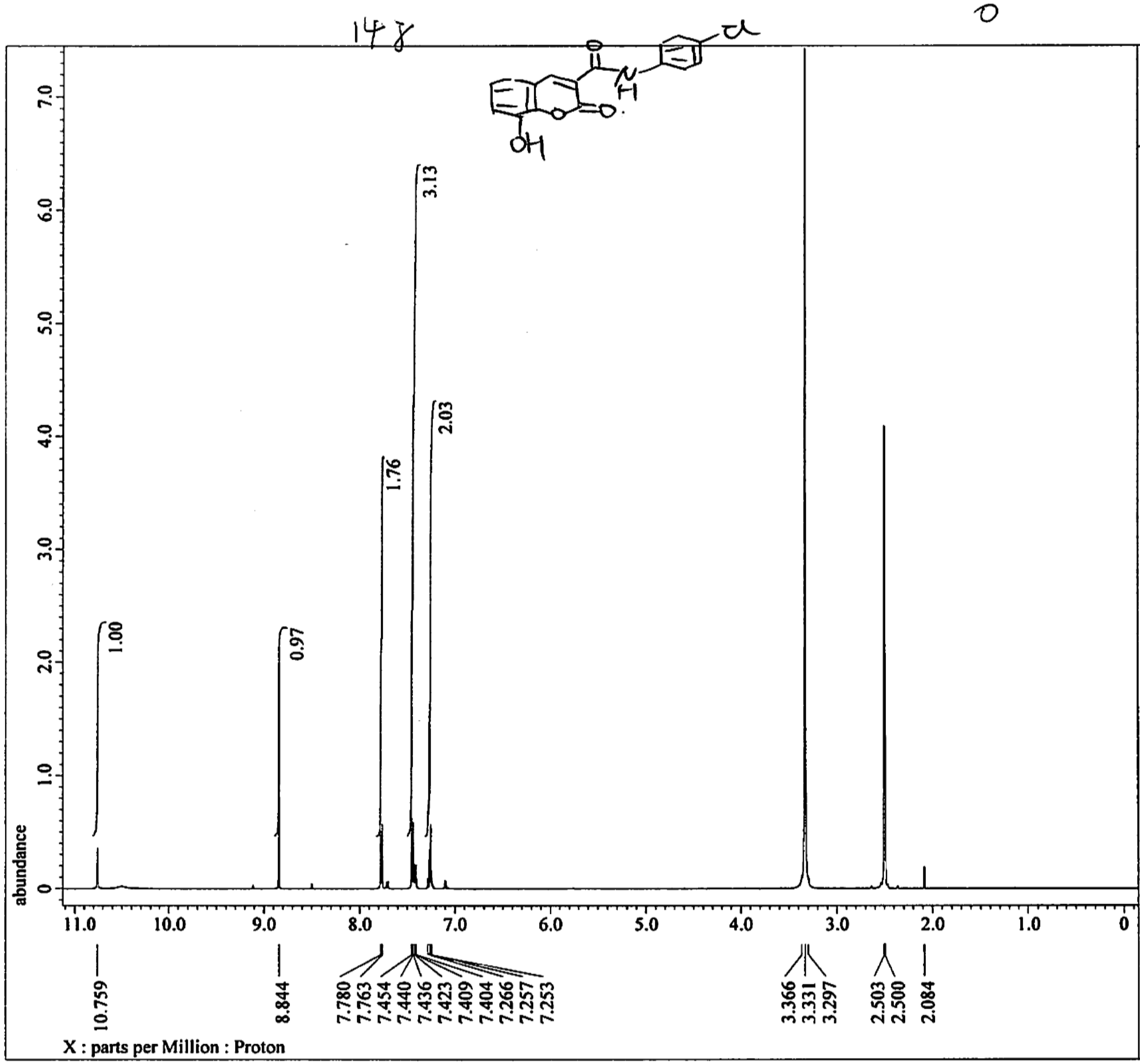
JEOL RESONANCE

Filename	= L1_hul31227H-1-1-4.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 27-DEC-2013 12:05:07
Revision_Time	= 27-DEC-2013 12:07:30
Current_Time	= 27-DEC-2013 12:07:58
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 46
Temp_Get	= 23.4[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



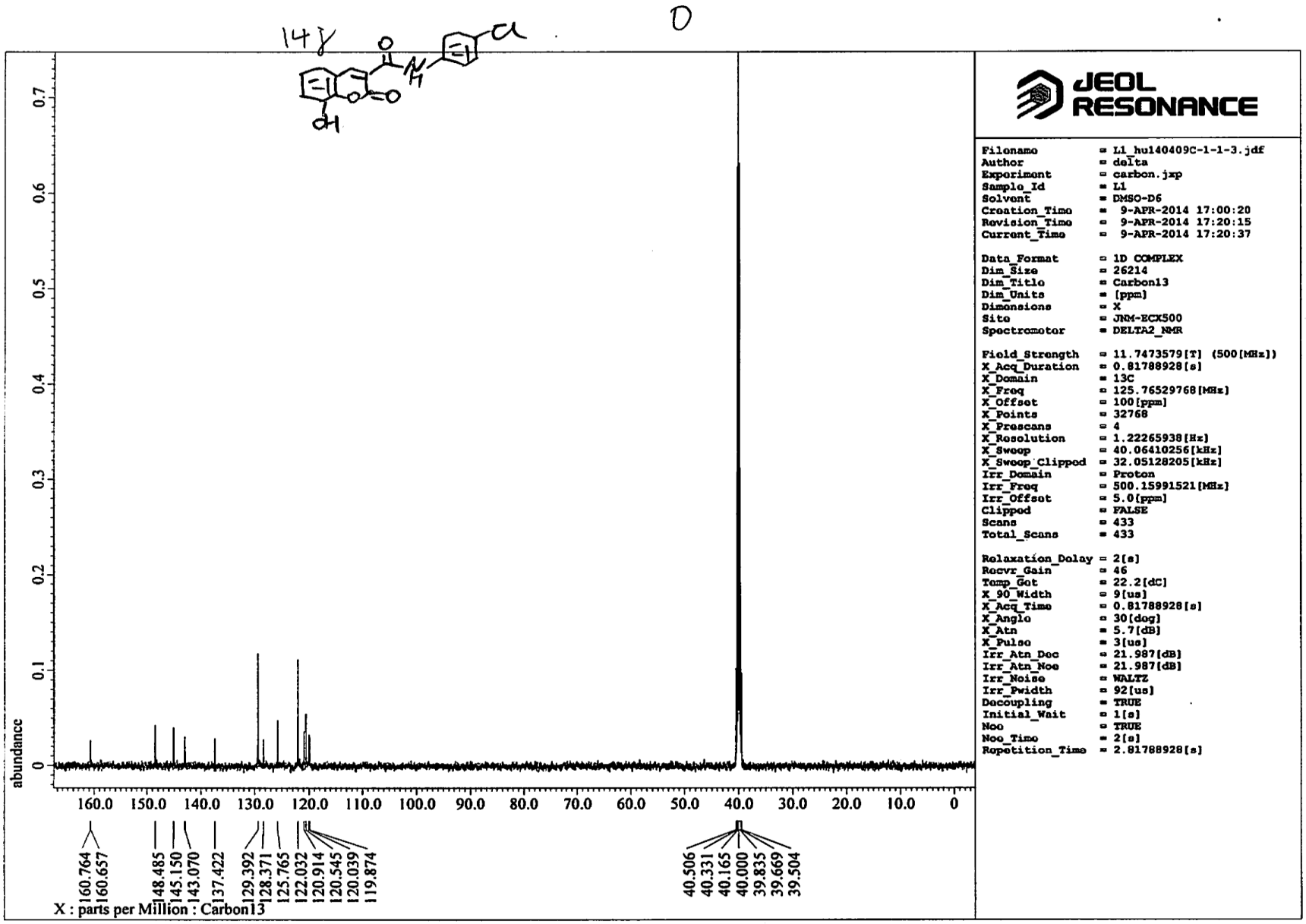
JEOL RESONANCE

Filename	= L1_ifuku20140203-C01-1-3.j
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 3-FEB-2014 13:36:57
Revision_Time	= 3-FEB-2014 13:47:20
Current_Time	= 3-FEB-2014 13:47:39
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= TRUE
Scans	= 216
Total_Scans	= 216
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.5[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]



JEOL RESONANCE

Filename	= L1_hu140312H-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 12-MAR-2014 19:11:15
Revision_Time	= 12-MAR-2014 19:12:53
Current_Time	= 12-MAR-2014 19:13:09
Comment	= 2-p.80-Fr.37-40
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get	= 21.9[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

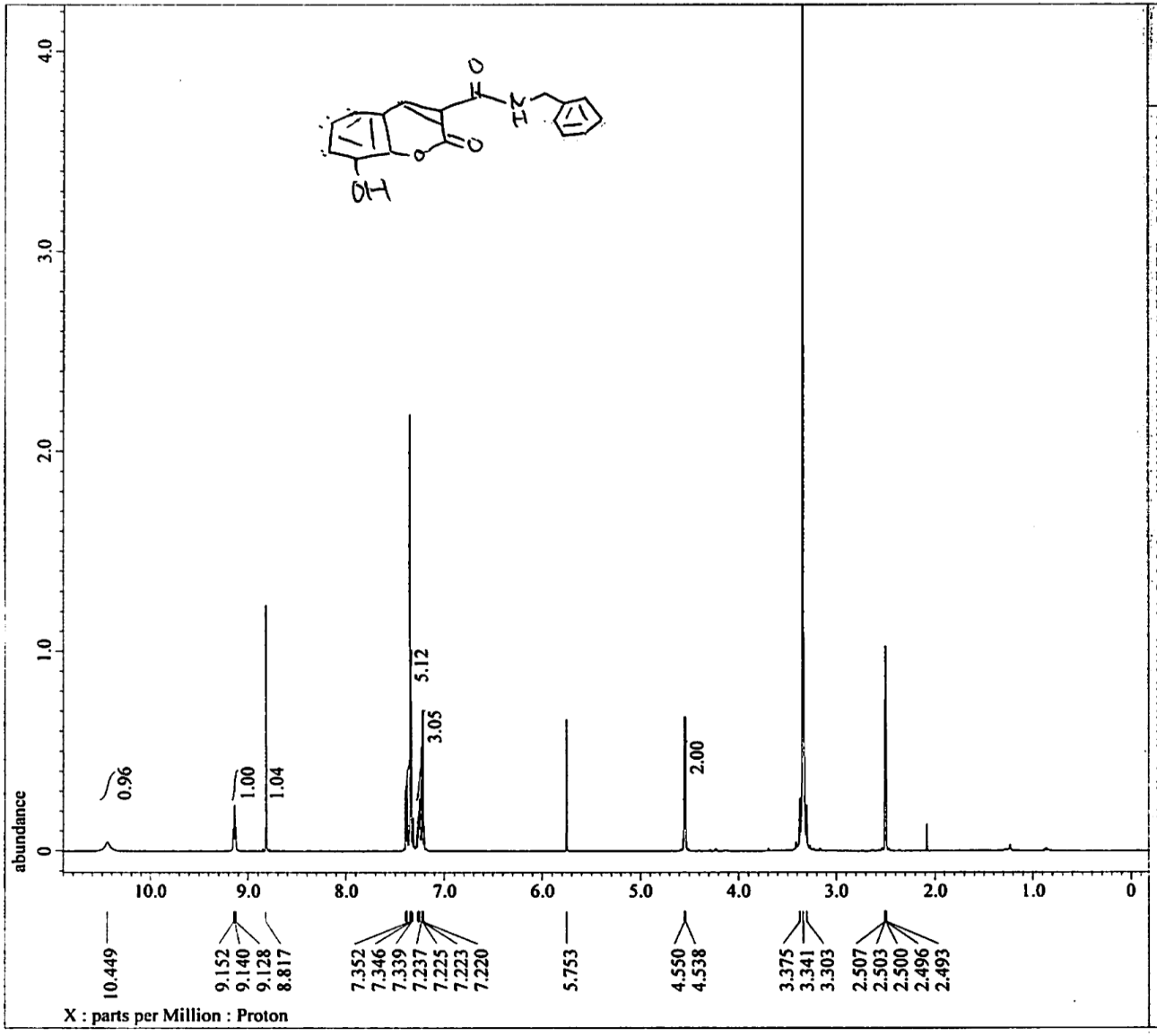


JEOL RESONANCE

Filename	= L1_hu140409C-1-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 9-APR-2014 17:00:20
Revision_Time	= 9-APR-2014 17:20:15
Current_Time	= 9-APR-2014 17:20:37
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 433
Total_Scans	= 433
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.2[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

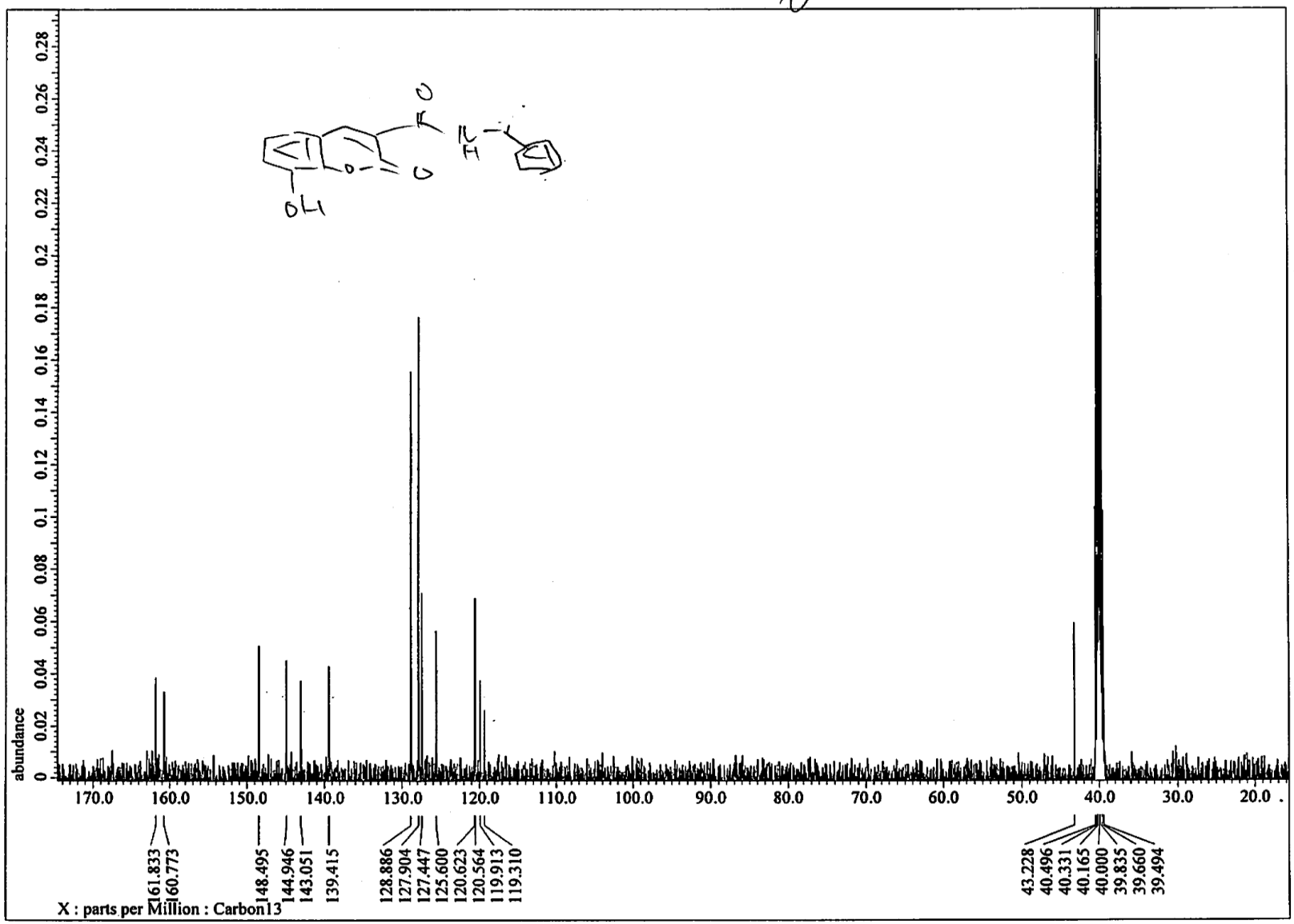
14k

D

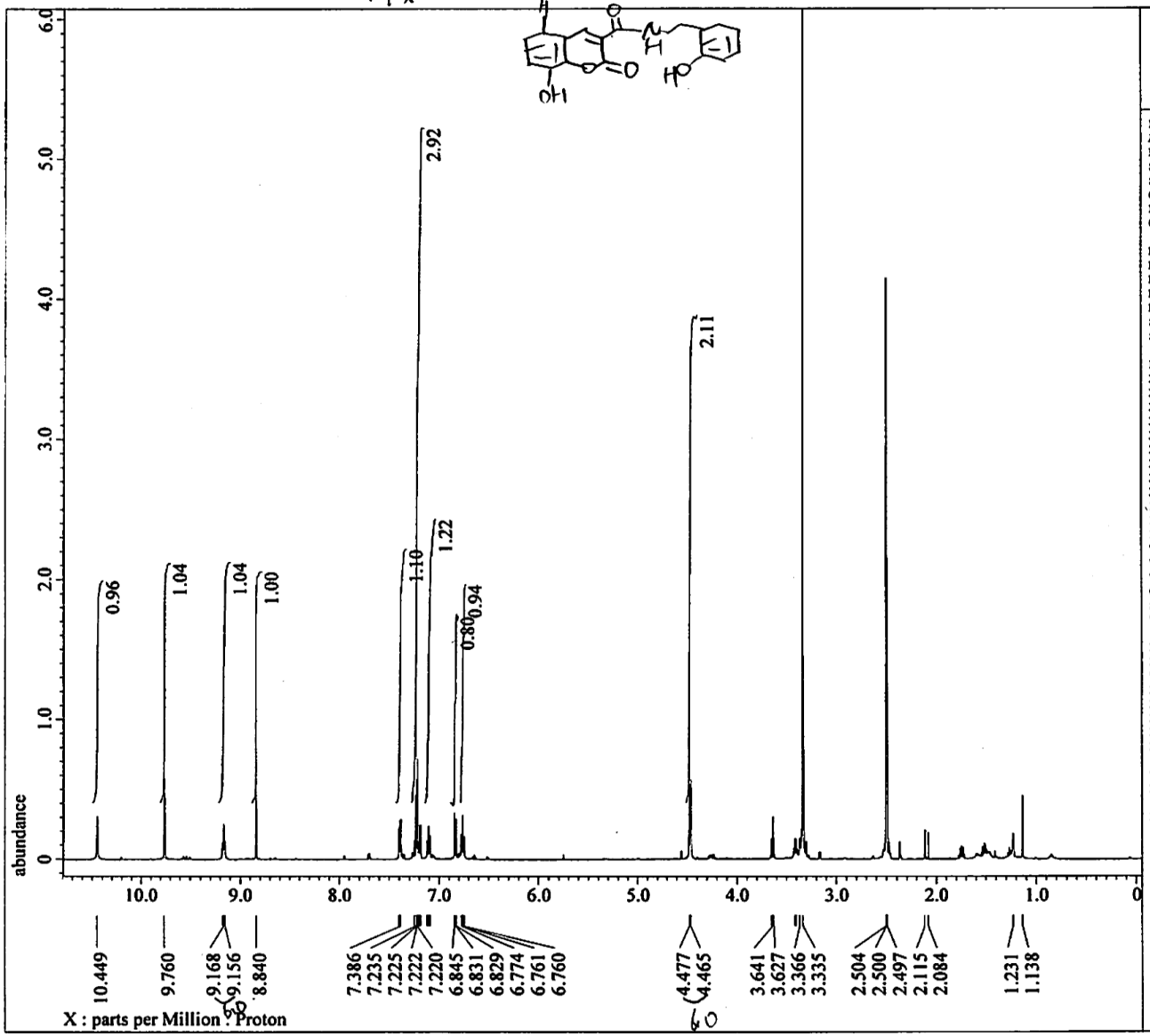


JEOL RESONANCE

Filename	= L1_ifuku20131217-H01-1-6.j
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 17-DEC-2013 13:34:20
Revision_Time	= 17-DEC-2013 13:37:13
Current_Time	= 17-DEC-2013 13:37:21
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 4
Total_Scans	= 4
Relaxation_Delay	= 5[s]
Recvr_Gain	= 46
Temp_Set	= 22.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]


abundance
0 0.02 0.04 0.06 0.08 0.1 0.12 0.14 0.16 0.18 0.2 0.22 0.24 0.26 0.28
170.0 160.0 150.0 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0
161.833
160.773
148.495
144.946
143.051
139.415
128.886
127.904
127.447
125.600
120.623
120.564
119.913
119.310
43.228
40.496
40.331
40.165
40.000
39.835
39.660
39.494
X : parts per Million : Carbon13

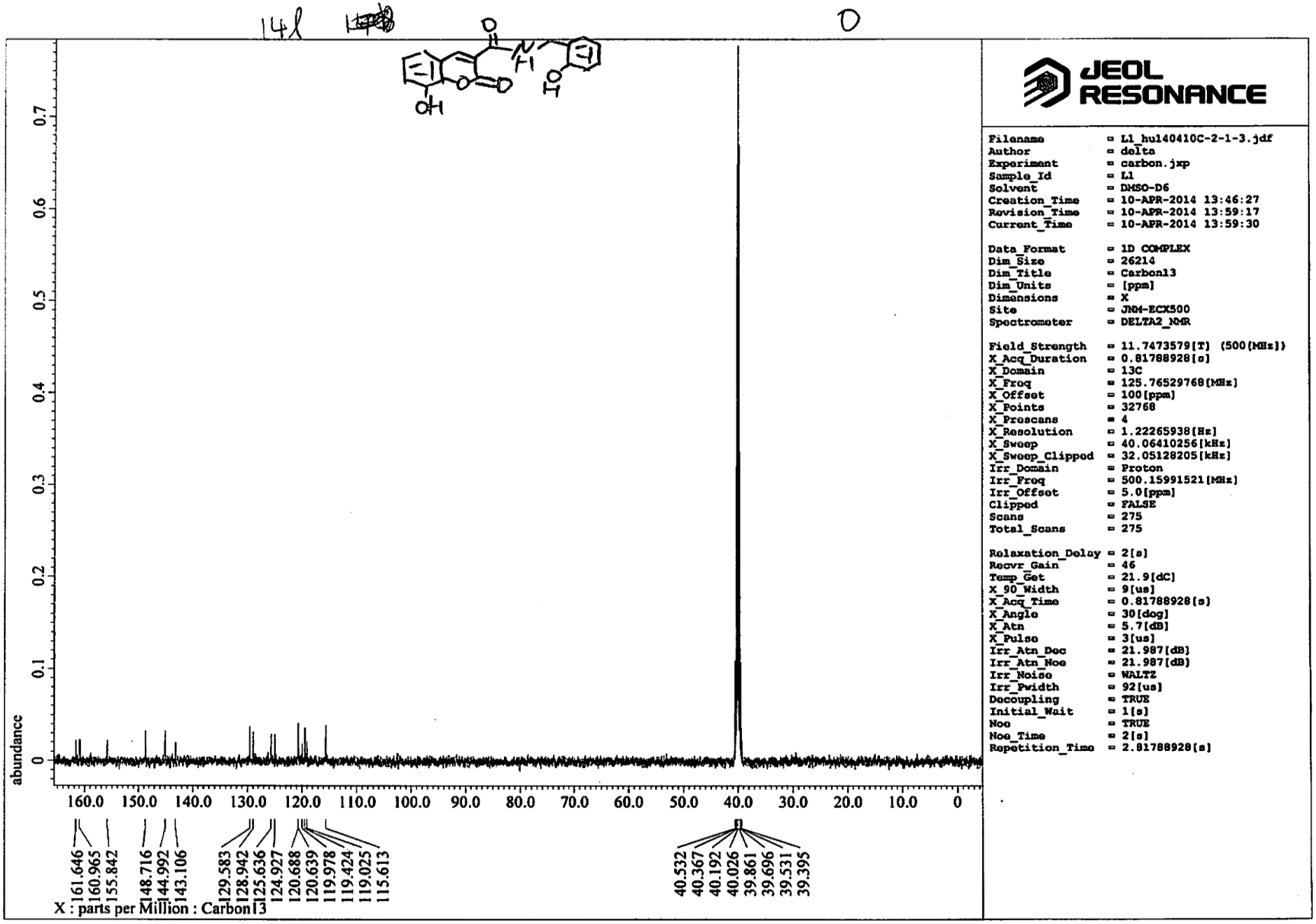
14l



JEOL RESONANCE

Filename	= L1_hu140311H-2-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 11-MAR-2014 14:32:57
Revision_Time	= 11-MAR-2014 14:35:44
Current_Time	= 11-MAR-2014 14:35:57
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectromoter	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Set	= 21.2[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

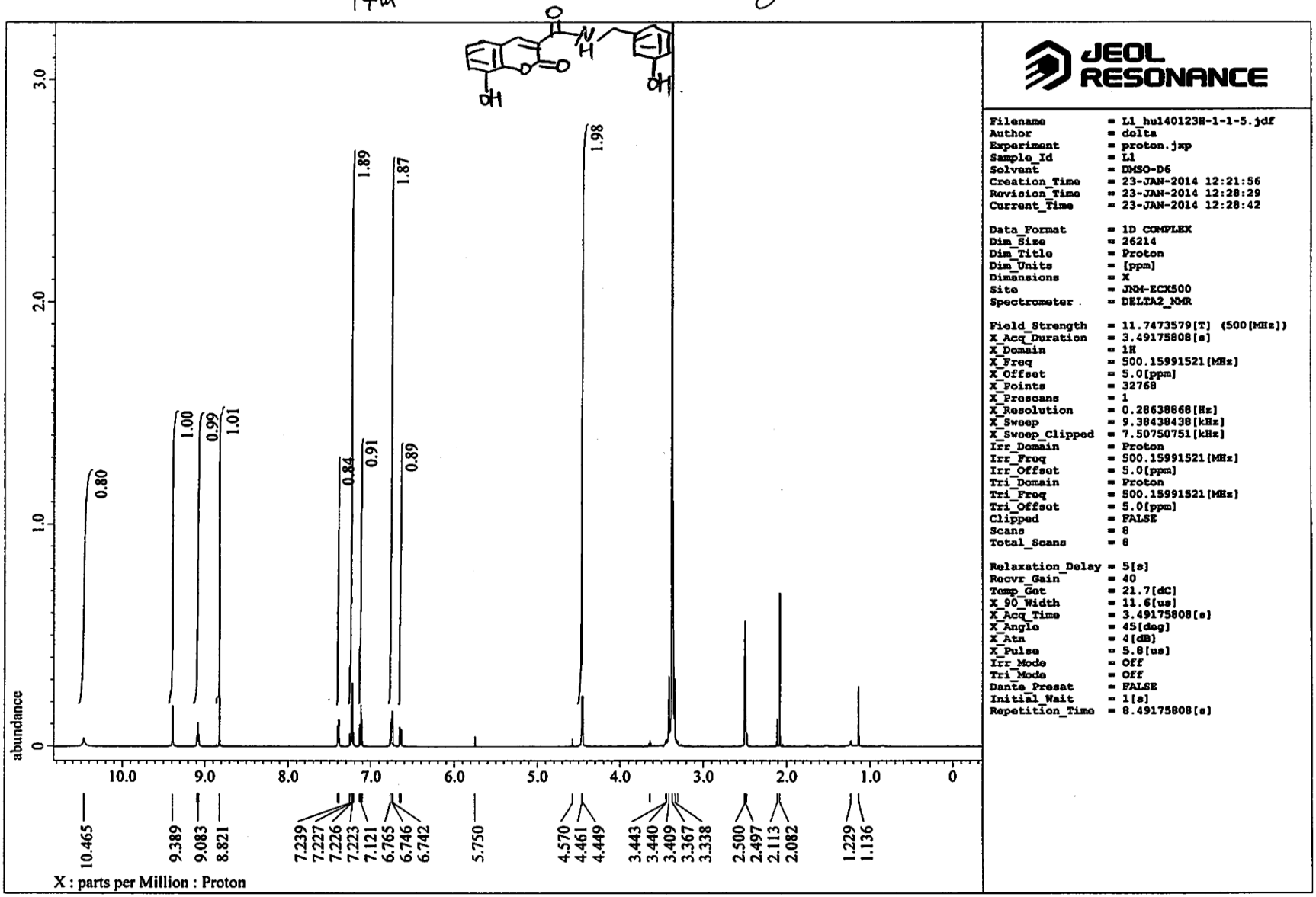
14l



JEOL RESONANCE

Filename	= L1_hu140410C-2-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 10-APR-2014 13:46:27
Revision_Time	= 10-APR-2014 13:59:17
Current_Time	= 10-APR-2014 13:59:30
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 275
Total_Scans	= 275
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.9[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

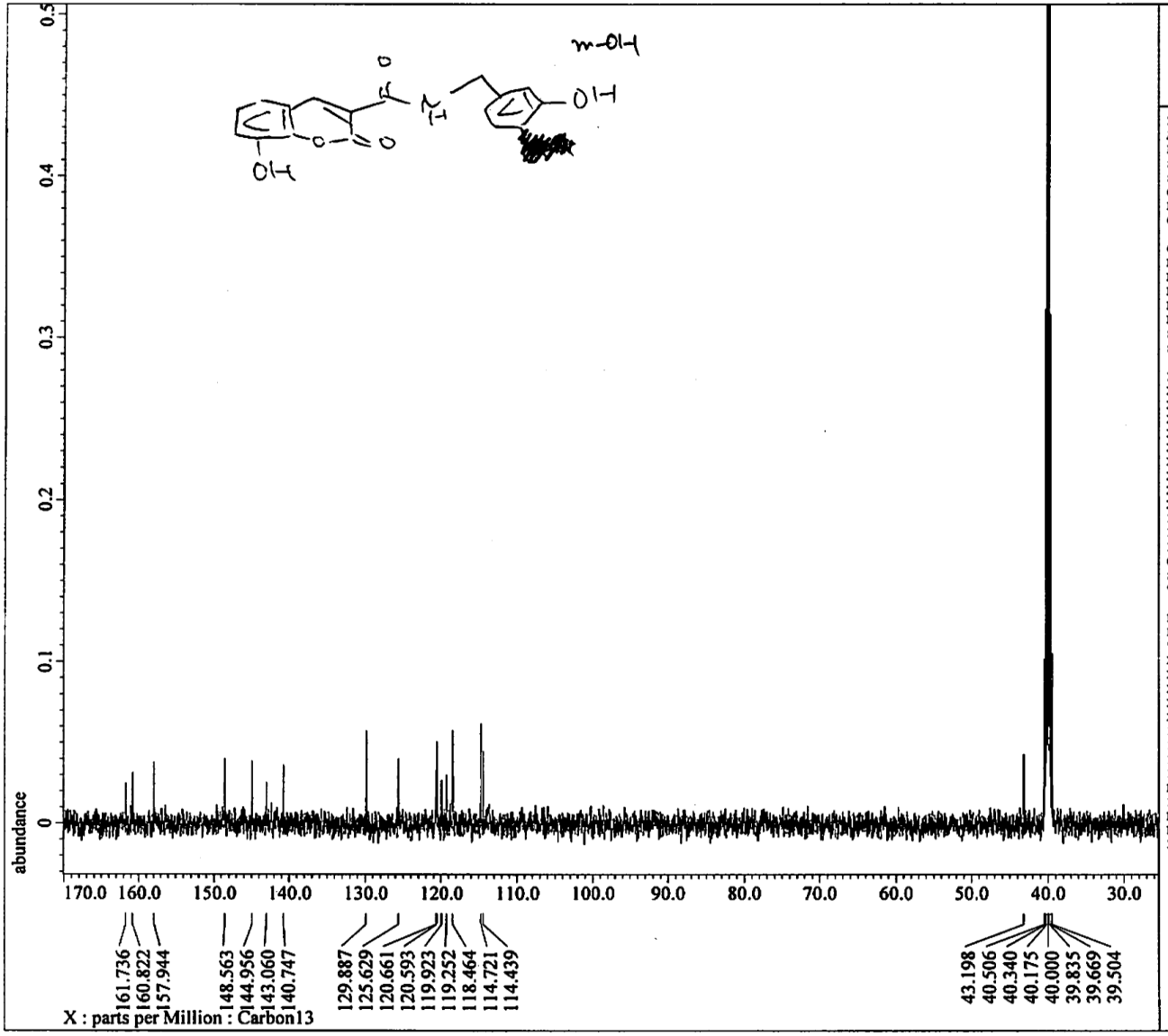
14m



JEOL RESONANCE

Filename	= L1_hu140123E-1-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 23-JAN-2014 12:21:56
Revision_Time	= 23-JAN-2014 12:28:29
Current_Time	= 23-JAN-2014 12:28:42
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 40
Temp_Get	= 21.7[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

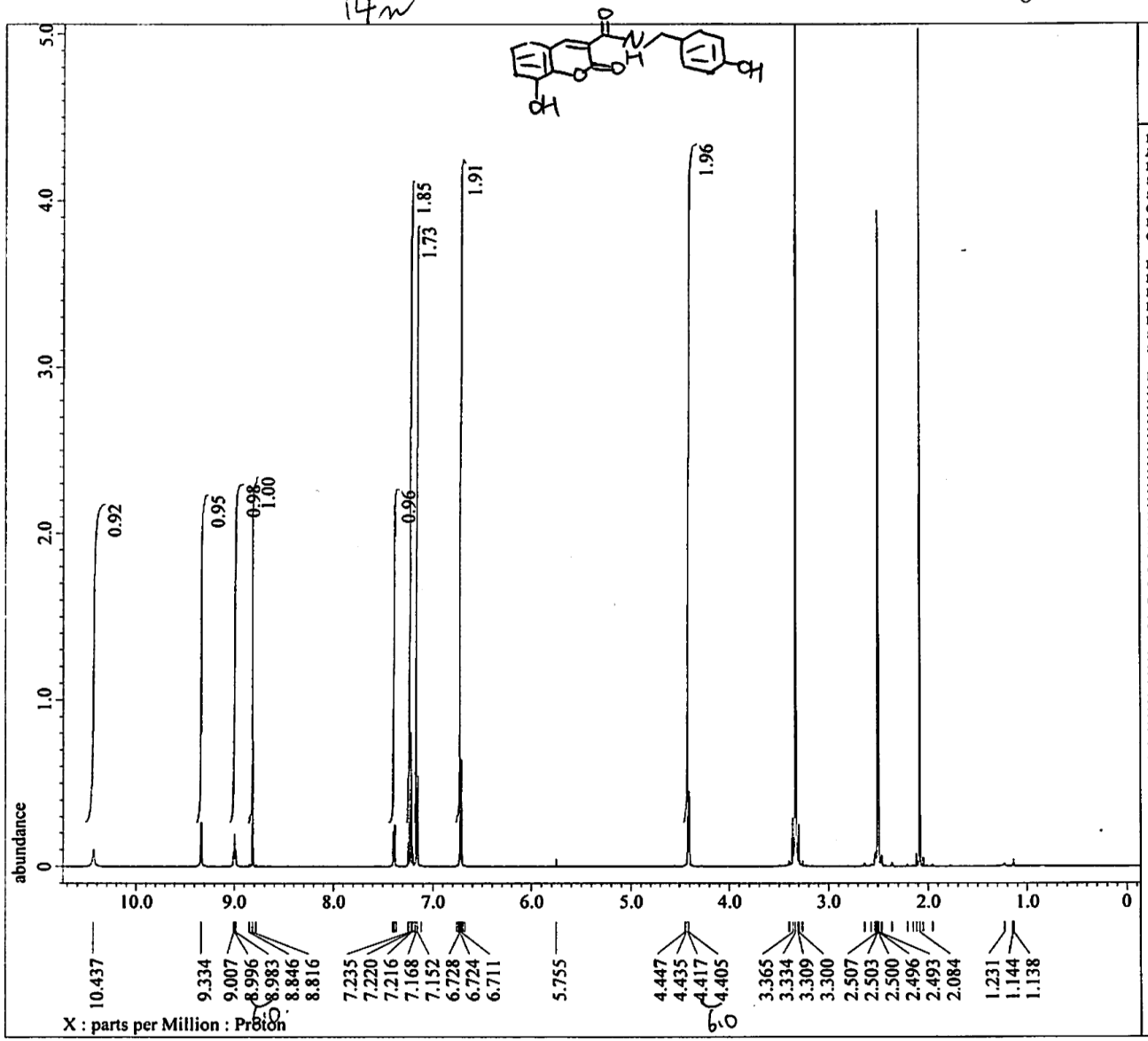
14m D



JEOL RESONANCE

Filename	= L1_ifuku20140130-C02-1-3.j
Author	= delta
Exporiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 30-JAN-2014 14:08:20
Revision_Time	= 30-JAN-2014 14:14:50
Current_Time	= 30-JAN-2014 14:16:01
Comment	= p.67-Fr.5
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 129
Total_Scans	= 129
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 22.8[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

14m

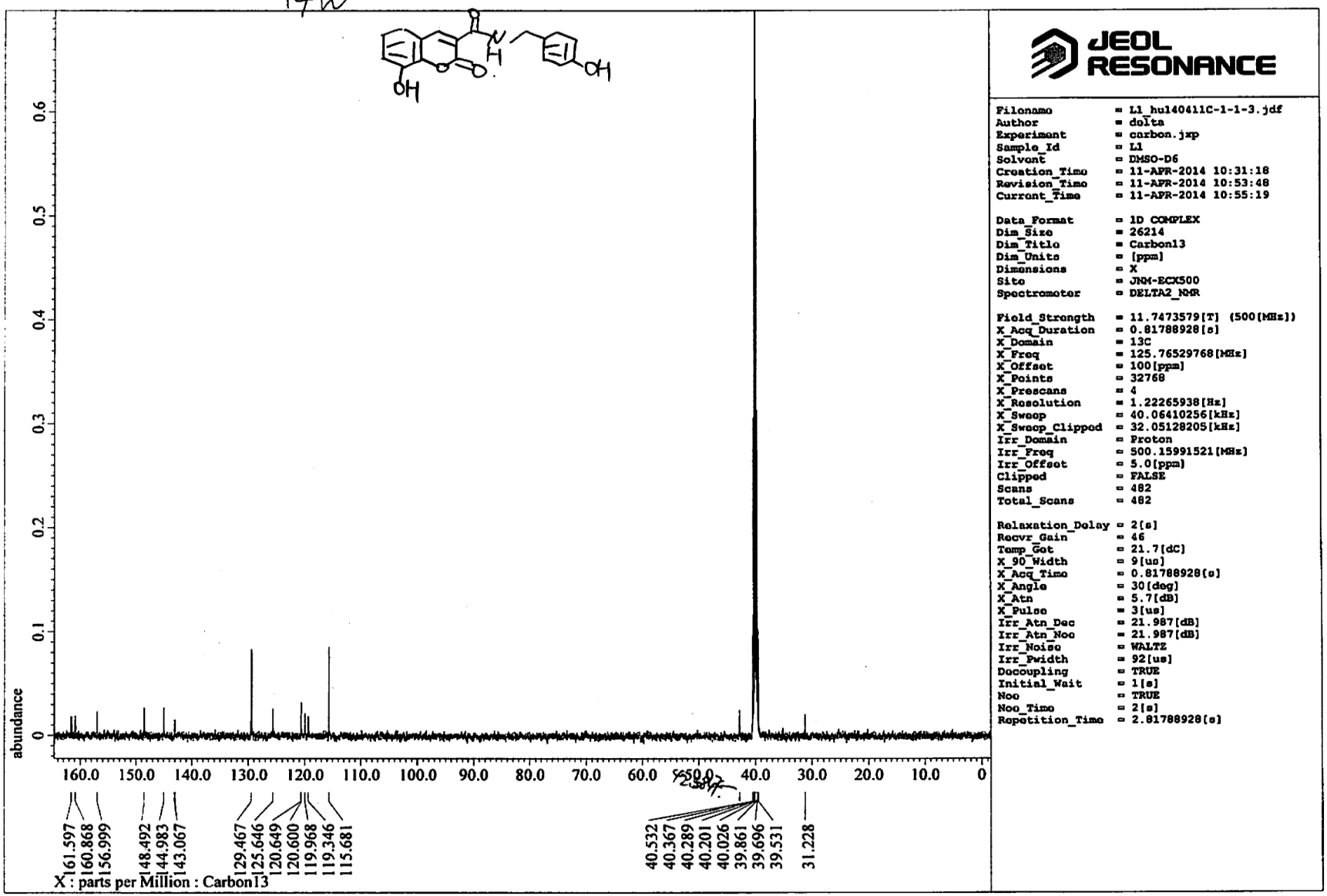


JEOL RESONANCE

Filename	= L1_hu140404H-2-1-4.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 4-APR-2014 13:23:53
Revision_Time	= 4-APR-2014 13:25:15
Current_Time	= 4-APR-2014 13:26:05
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 3
Total_Scans	= 3
Relaxation_Delay	= 5[s]
Recvr_Gain	= 46
Temp_Get	= 21.9[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

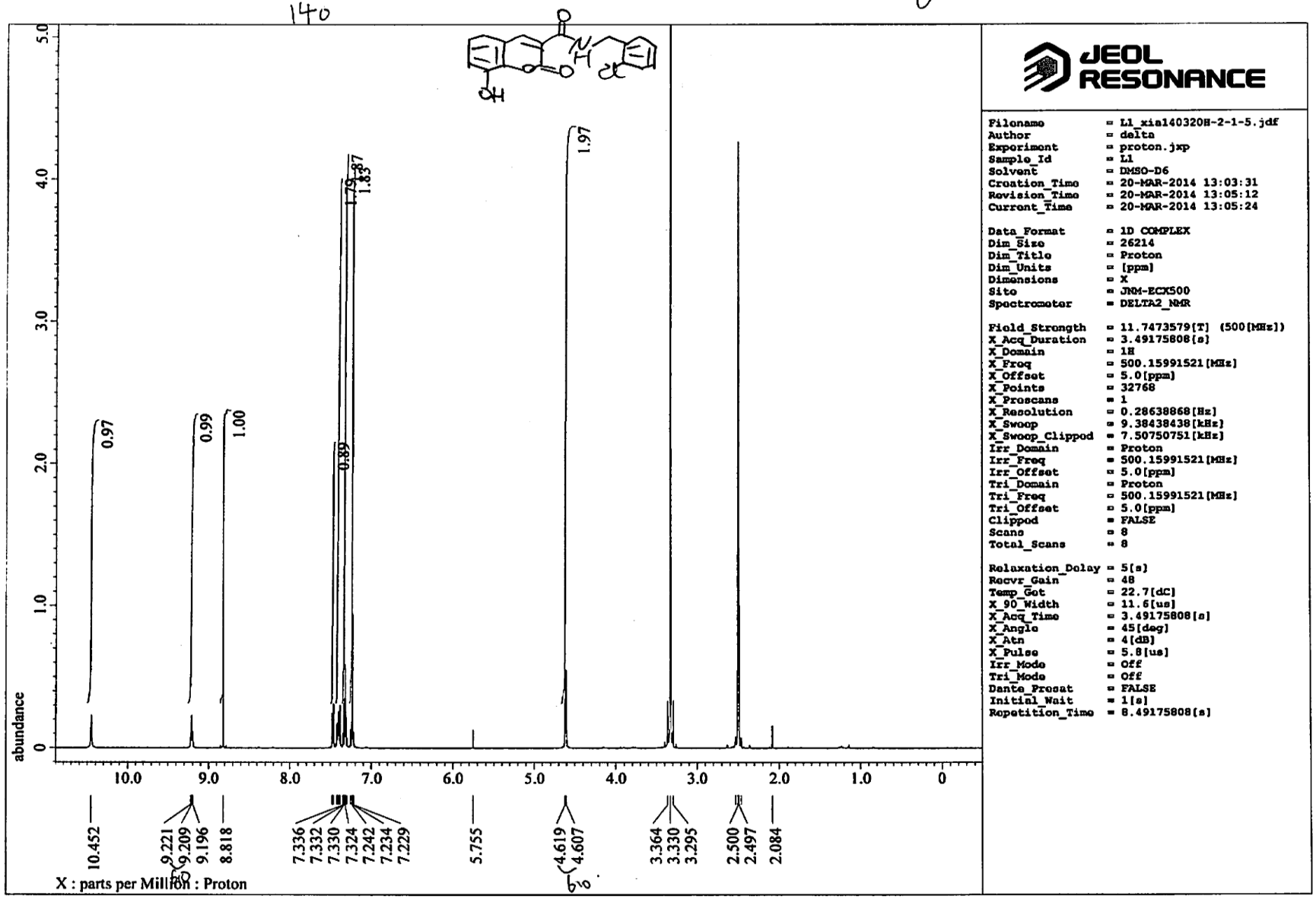
D

14w



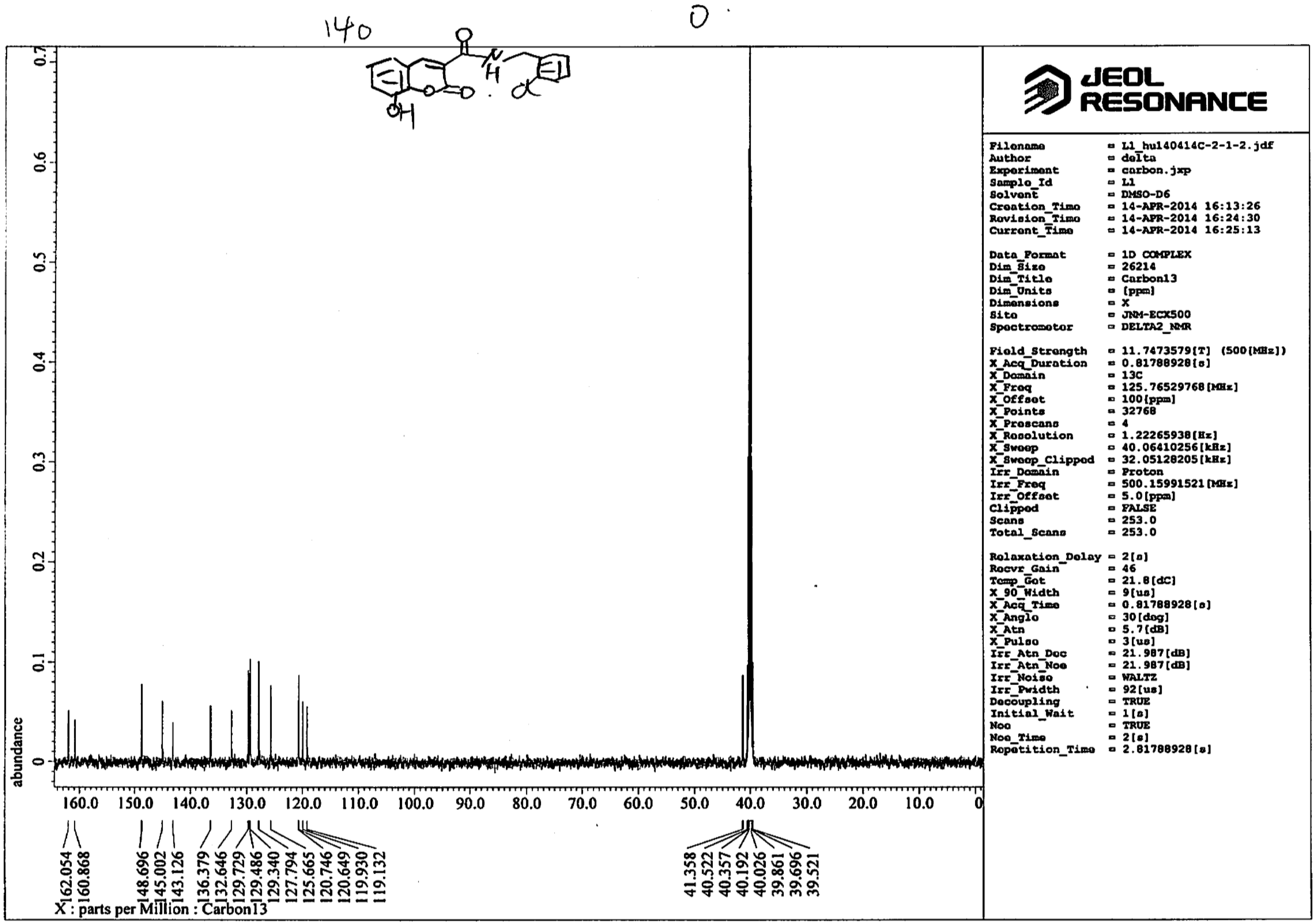
JEOL RESONANCE

Filename	= L1_hu140411C-1-1-3.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 11-APR-2014 10:31:18
Revision_Time	= 11-APR-2014 10:53:48
Current_Time	= 11-APR-2014 10:55:19
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 482
Total_Scans	= 482
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.7[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]

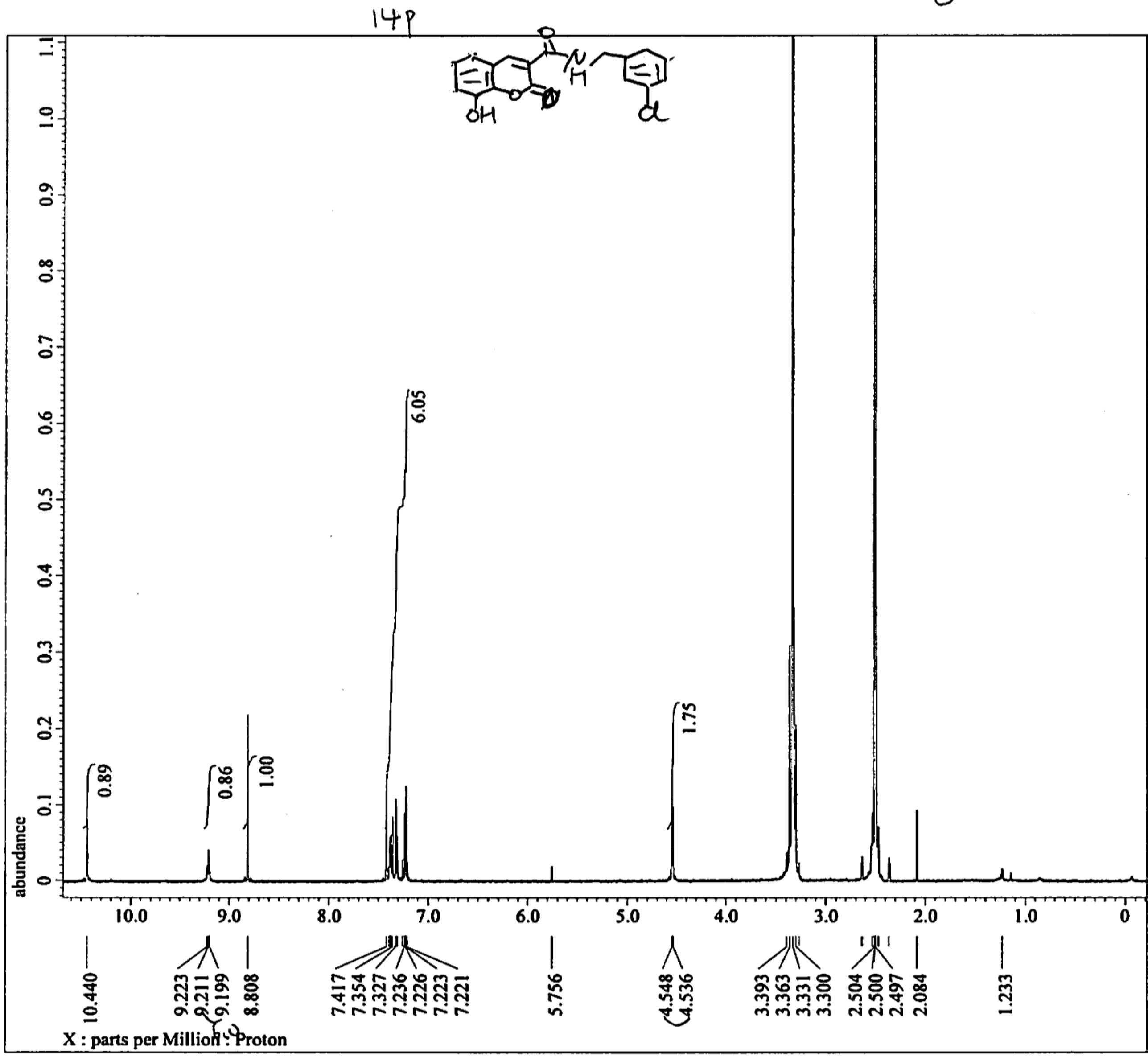


JEOL RESONANCE

Filename	= L1_xia140320H-2-1-5.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 20-MAR-2014 13:03:31
Revision_Time	= 20-MAR-2014 13:05:12
Current_Time	= 20-MAR-2014 13:05:24
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get	= 22.7[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]

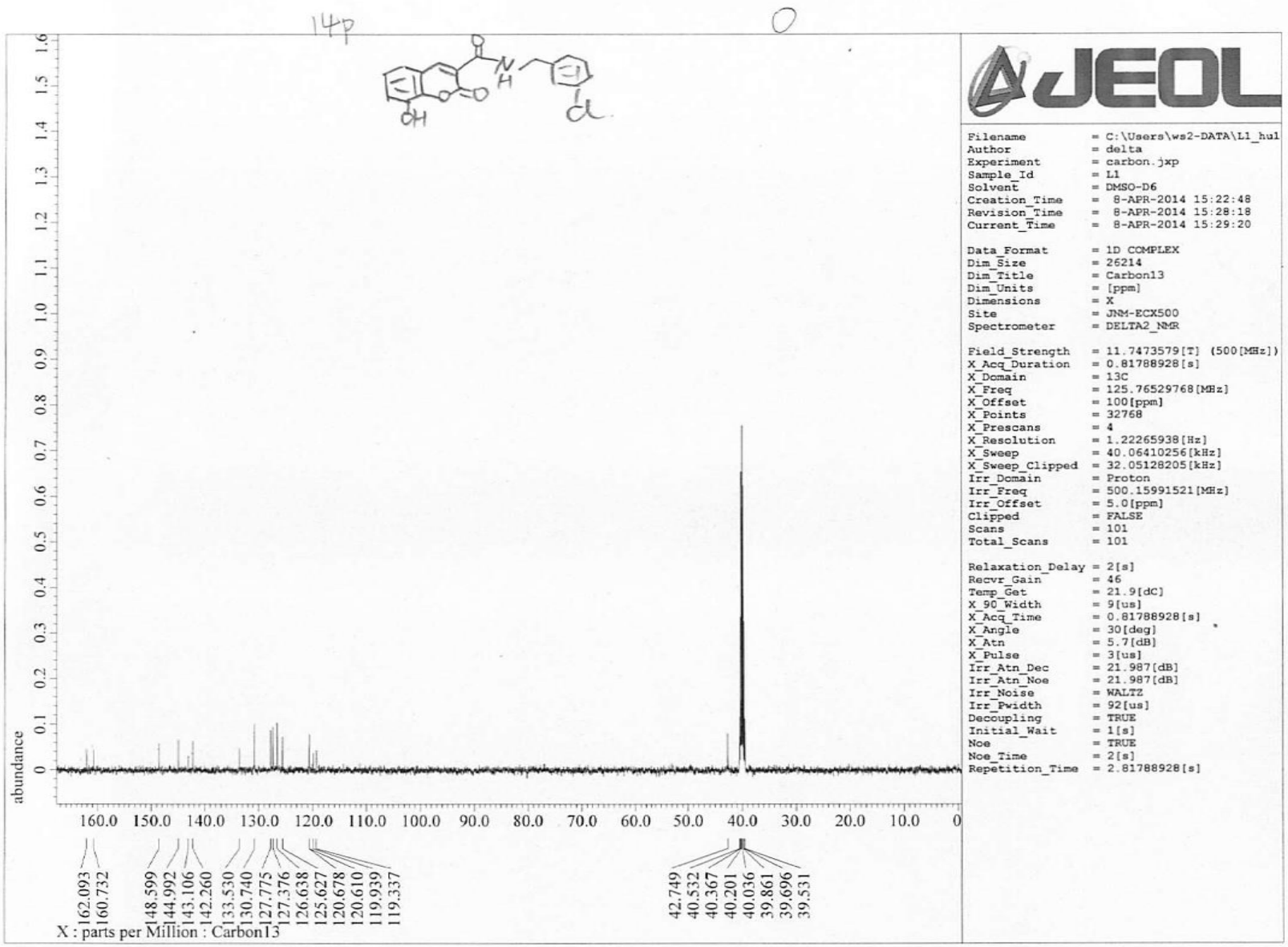

140
0
JEOL RESONANCE
Filename = L1_hu140414C-2-1-2.jdf
Author = delta
Experiment = carbon.jxp
Sample_Id = L1
Solvent = DMSO-D6
Creation_Time = 14-APR-2014 16:13:26
Revision_Time = 14-APR-2014 16:24:30
Current_Time = 14-APR-2014 16:25:13
Data_Format = 1D COMPLEX
Dim_Size = 26214
Dim_Title = Carbon13
Dim_Units = [ppm]
Dimensions = X
Site = JNM-ECX500
Spectrometer = DELTA2_NMR
Field_Strength = 11.7473579[T] (500[MHz])
X_Acq_Duration = 0.81788928[s]
X_Domain = 13C
X_Freq = 125.76529768[MHz]
X_Offset = 100[ppm]
X_Points = 32768
X_Prescans = 4
X_Resolution = 1.22265938[Hz]
X_Sweep = 40.06410256[kHz]
X_Sweep_Clipped = 32.05128205[kHz]
Irr_Domain = Proton
Irr_Freq = 500.15991521[MHz]
Irr_Offset = 5.0[ppm]
Clipped = FALSE
Scans = 253.0
Total_Scans = 253.0
Relaxation_Delay = 2[s]
Recvr_Gain = 46
Temp_Get = 21.8[dC]
X_90_Width = 9[us]
X_Acq_Time = 0.81788928[s]
X_Angle = 30[deg]
X_Atn = 5.7[dB]
X_Pulse = 3[us]
Irr_Atn_Dec = 21.987[dB]
Irr_Atn_Noe = 21.987[dB]
Irr_Noise = WALTZ
Irr_Pwidth = 92[us]
Decoupling = TRUE
Initial_Wait = 1[s]
Noe = TRUE
Noe_Time = 2[s]
Repetition_Time = 2.81788928[s]
abundance
X : parts per Million : Carbon13
162.054
160.868
148.696
145.002
143.126
136.379
132.646
129.729
129.486
129.340
127.794
125.665
120.746
120.649
119.930
119.132
41.358
40.522
40.357
40.192
40.026
39.861
39.696
39.521

14P



JEOL RESONANCE

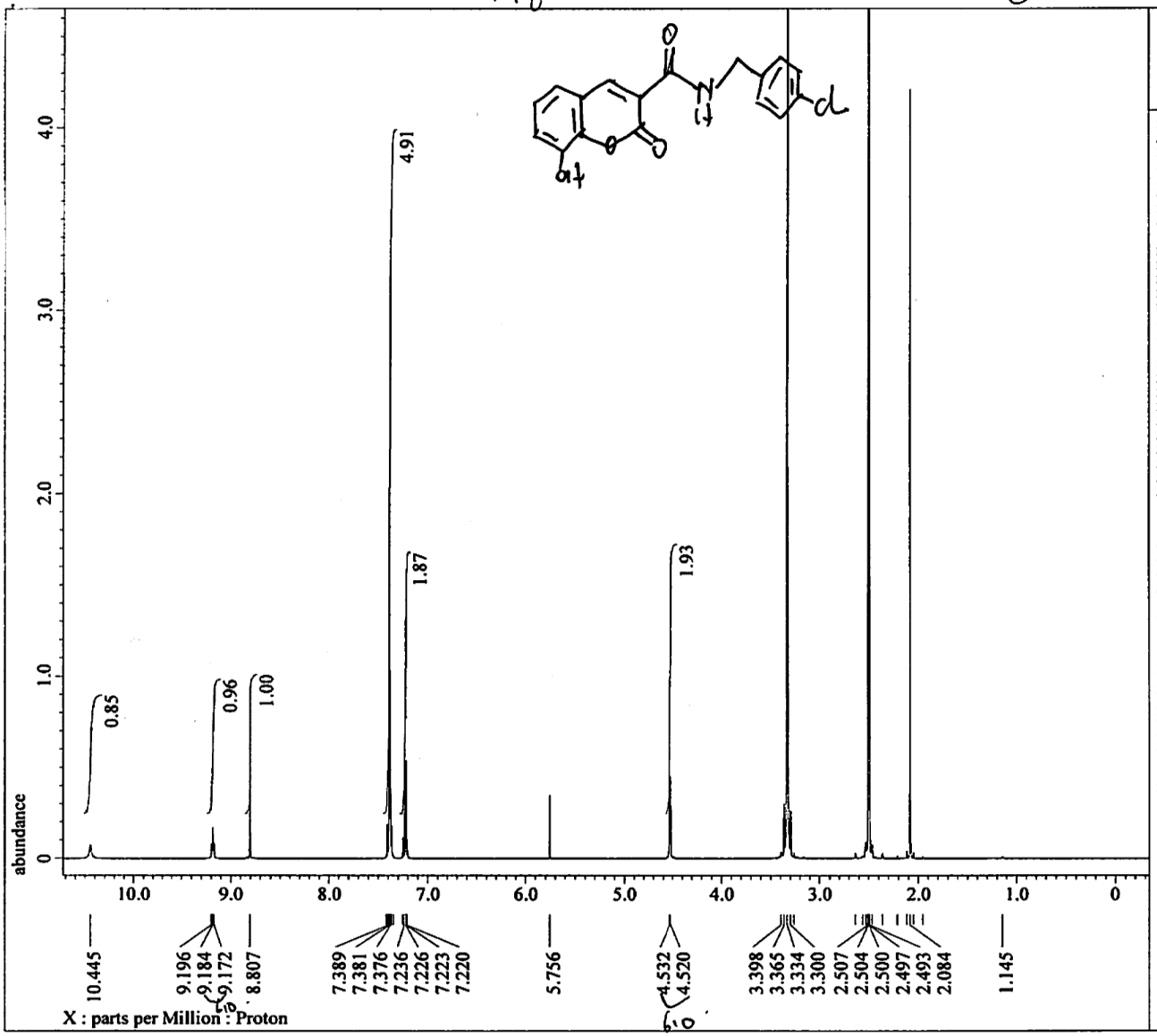
Filename	= L1_hu140403H-1-1-6.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 3-APR-2014 15:25:50
Revision_Time	= 3-APR-2014 15:28:02
Current_Time	= 3-APR-2014 15:28:36
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 50
Temp_Get	= 21.6[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL

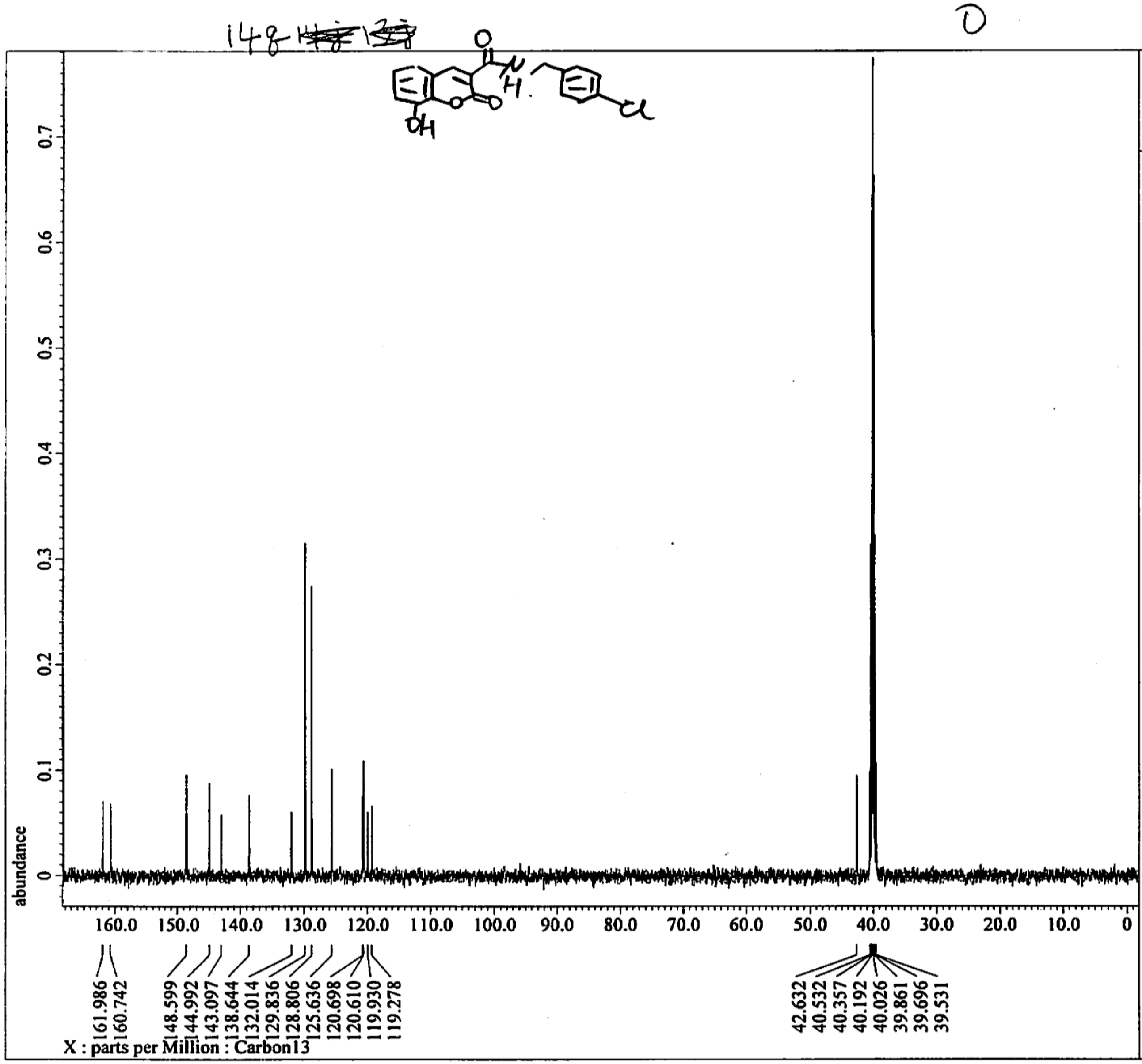
```
Filename          = C:\Users\ws2-DATA\L1_hul
Author            = delta
Experiment        = carbon.jxp
Sample_Id         = L1
Solvent           = DMSO-D6
Creation_Time     =  8-APR-2014 15:22:48
Revision_Time     =  8-APR-2014 15:28:18
Current_Time      =  8-APR-2014 15:29:20

Data_Format       = 1D COMPLEX
Dim_Size          = 26214
Dim_Title         = Carbon13
Dim_Units         = [ppm]
Dimensions        = X
Site              = JNM-ECX500
Spectrometer      = DELTA2_NMR

Field_Strength    = 11.7473579[T] (500[MHz])
X_Acq_Duration    = 0.81788928[s]
X_Domain          = 13C
X_Freq            = 125.76529768[MHz]
X_Offset          = 100[ppm]
X_Points          = 32768
X_Prescans        = 4
X_Resolution      = 1.22265938[Hz]
X_Sweep           = 40.06410256[kHz]
X_Sweep_Clipped   = 32.05128205[kHz]
Irr_Domain        = Proton
Irr_Freq          = 500.15991521[MHz]
Irr_Offset        = 5.0[ppm]
Clipped           = FALSE
Scans             = 101
Total_Scans       = 101

Relaxation_Delay = 2[s]
Recvr_Gain        = 46
Temp_Get          = 21.9[dC]
X_90_Width        = 9[us]
X_Acq_Time        = 0.81788928[s]
X_Angle           = 30[deg]
X_Atn             = 5.7[dB]
X_Pulse           = 3[us]
Irr_Atn_Dec       = 21.987[dB]
Irr_Atn_Noe       = 21.987[dB]
Irr_Noise         = WALTZ
Irr_Pwidth        = 92[us]
Decoupling        = TRUE
Initial_Wait      = 1[s]
Noe               = TRUE
Noe_Time          = 2[s]
Repetition_Time   = 2.81788928[s]
```

148 D



JEOL RESONANCE

Filename	= L1_hu140407H-1-1-4.jdf
Author	= delta
Experiment	= proton.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 7-APR-2014 13:34:55
Revision_Time	= 7-APR-2014 13:36:19
Current_Time	= 7-APR-2014 13:36:31
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 3.49175808[s]
X_Domain	= 1H
X_Freq	= 500.15991521[MHz]
X_Offset	= 5.0[ppm]
X_Points	= 32768
X_Prescans	= 1
X_Resolution	= 0.28638868[Hz]
X_Sweep	= 9.38438438[kHz]
X_Sweep_Clipped	= 7.50750751[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Tri_Domain	= Proton
Tri_Freq	= 500.15991521[MHz]
Tri_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 8
Total_Scans	= 8
Relaxation_Delay	= 5[s]
Recvr_Gain	= 48
Temp_Get	= 21.7[dC]
X_90_Width	= 11.6[us]
X_Acq_Time	= 3.49175808[s]
X_Angle	= 45[deg]
X_Atn	= 4[dB]
X_Pulse	= 5.8[us]
Irr_Mode	= Off
Tri_Mode	= Off
Dante_Presat	= FALSE
Initial_Wait	= 1[s]
Repetition_Time	= 8.49175808[s]



JEOL RESONANCE

Filename	= L1_hu140411C-3-1-2.jdf
Author	= delta
Experiment	= carbon.jxp
Sample_Id	= L1
Solvent	= DMSO-D6
Creation_Time	= 11-APR-2014 16:21:57
Revision_Time	= 11-APR-2014 16:29:48
Current_Time	= 11-APR-2014 16:30:13
Data_Format	= 1D COMPLEX
Dim_Size	= 26214
Dim_Title	= Carbon13
Dim_Units	= [ppm]
Dimensions	= X
Site	= JNM-ECX500
Spectrometer	= DELTA2_NMR
Field_Strength	= 11.7473579[T] (500[MHz])
X_Acq_Duration	= 0.81788928[s]
X_Domain	= 13C
X_Freq	= 125.76529768[MHz]
X_Offset	= 100[ppm]
X_Points	= 32768
X_Prescans	= 4
X_Resolution	= 1.22265938[Hz]
X_Sweep	= 40.06410256[kHz]
X_Sweep_Clipped	= 32.05128205[kHz]
Irr_Domain	= Proton
Irr_Freq	= 500.15991521[MHz]
Irr_Offset	= 5.0[ppm]
Clipped	= FALSE
Scans	= 185
Total_Scans	= 185
Relaxation_Delay	= 2[s]
Recvr_Gain	= 46
Temp_Get	= 21.8[dC]
X_90_Width	= 9[us]
X_Acq_Time	= 0.81788928[s]
X_Angle	= 30[deg]
X_Atn	= 5.7[dB]
X_Pulse	= 3[us]
Irr_Atn_Dec	= 21.987[dB]
Irr_Atn_Noe	= 21.987[dB]
Irr_Noise	= WALTZ
Irr_Pwidth	= 92[us]
Decoupling	= TRUE
Initial_Wait	= 1[s]
Noe	= TRUE
Noe_Time	= 2[s]
Repetition_Time	= 2.81788928[s]