

Supporting Information:

Arylazanyl pyrazolone derivatives as inhibitors of mutant superoxide dismutase 1-dependent protein aggregation for the treatment of amyotrophic lateral sclerosis

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EC <sub>50</sub> with viability of compounds <b>1-38</b>	S92

6.660  
6.649  
6.638  
6.614  
6.589

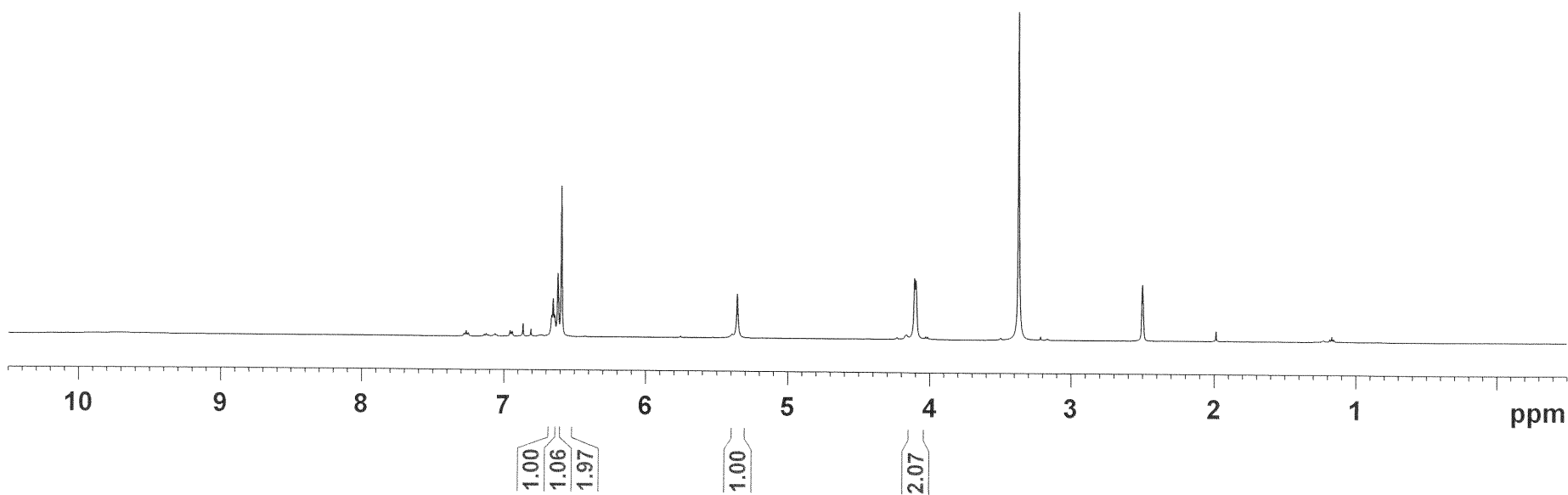
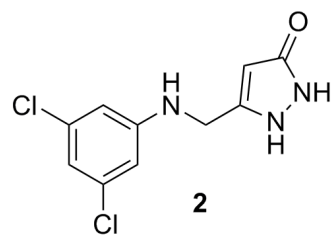
— 5.353

< 4.105  
4.095

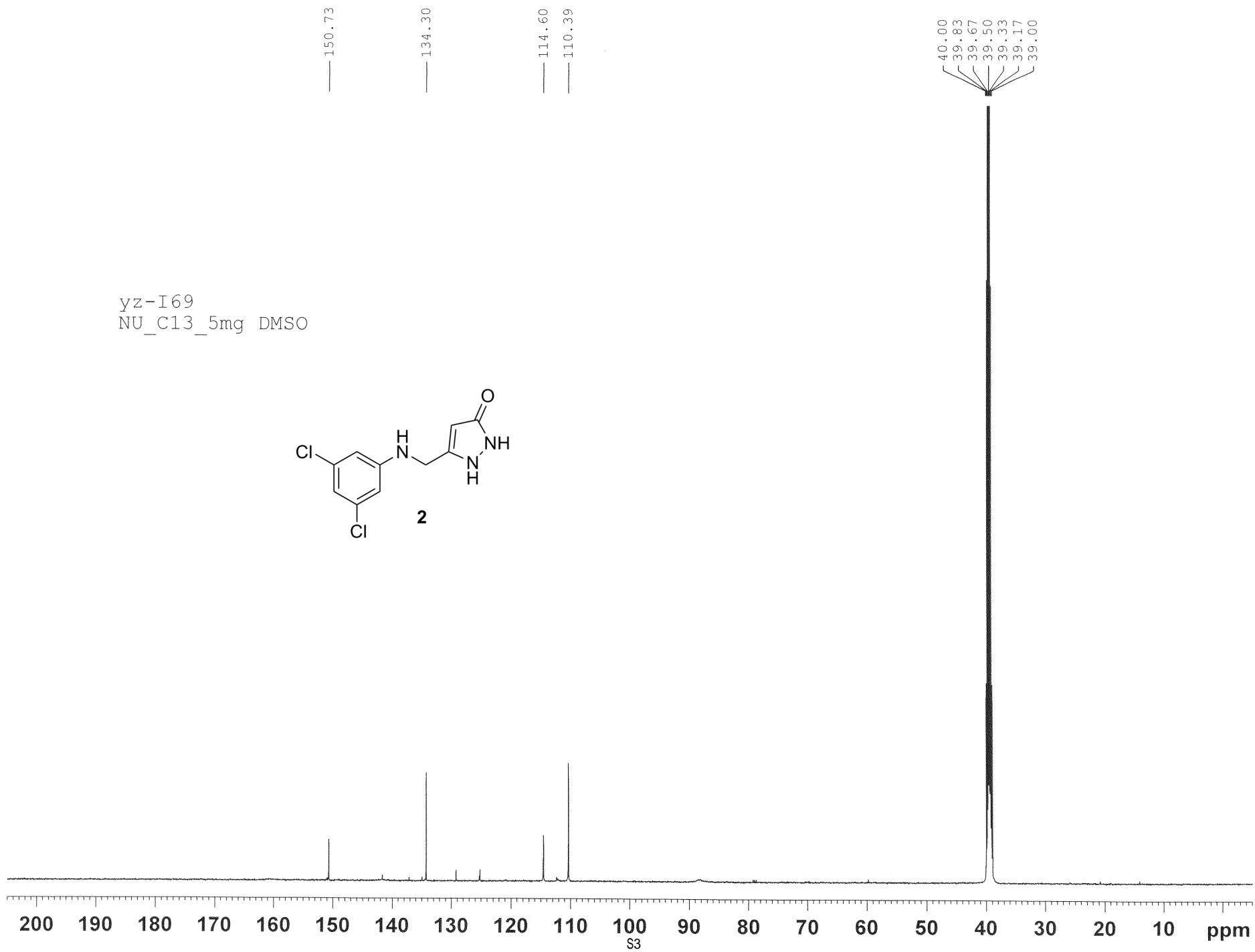
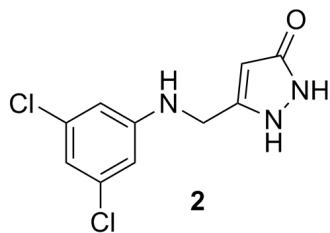
— 3.365

— 2.498

yz-I69  
PROTON DMSO



yz-I69  
NU\_C13\_5mg DMSO



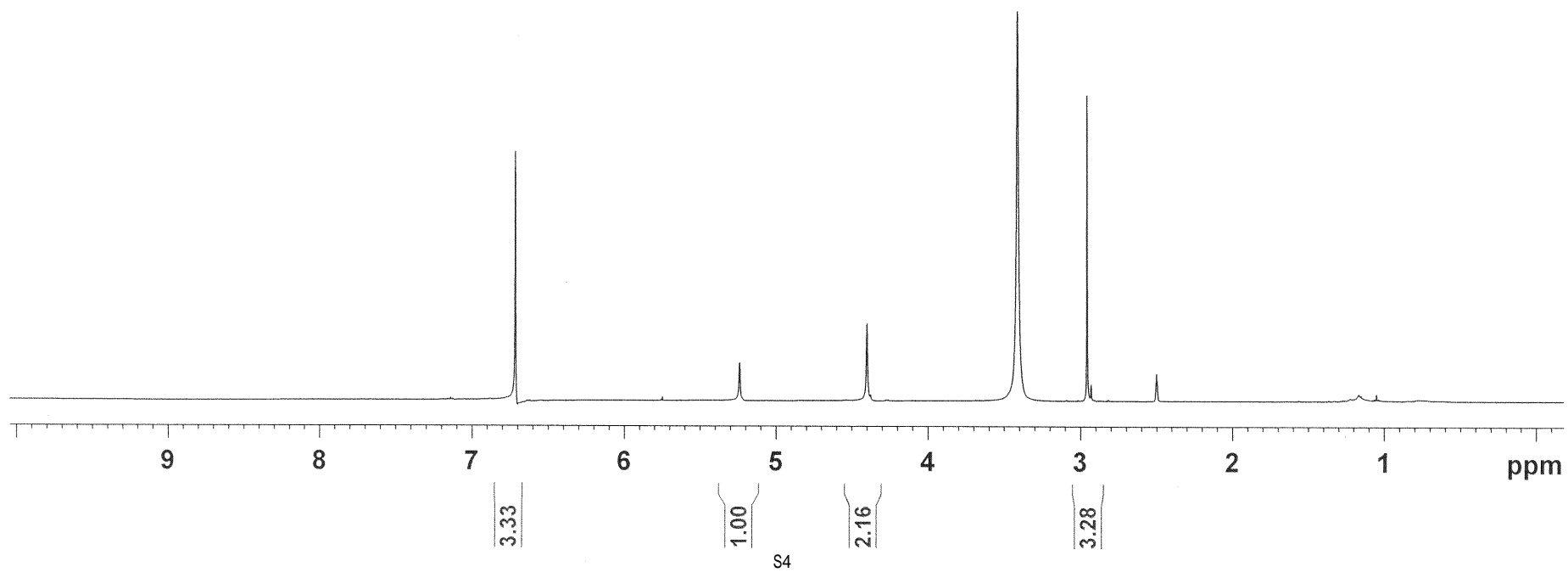
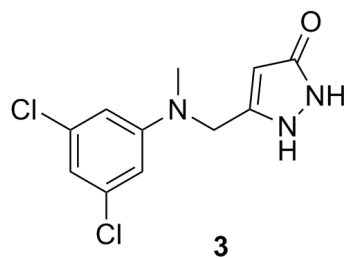
— 9.928

— 6.715

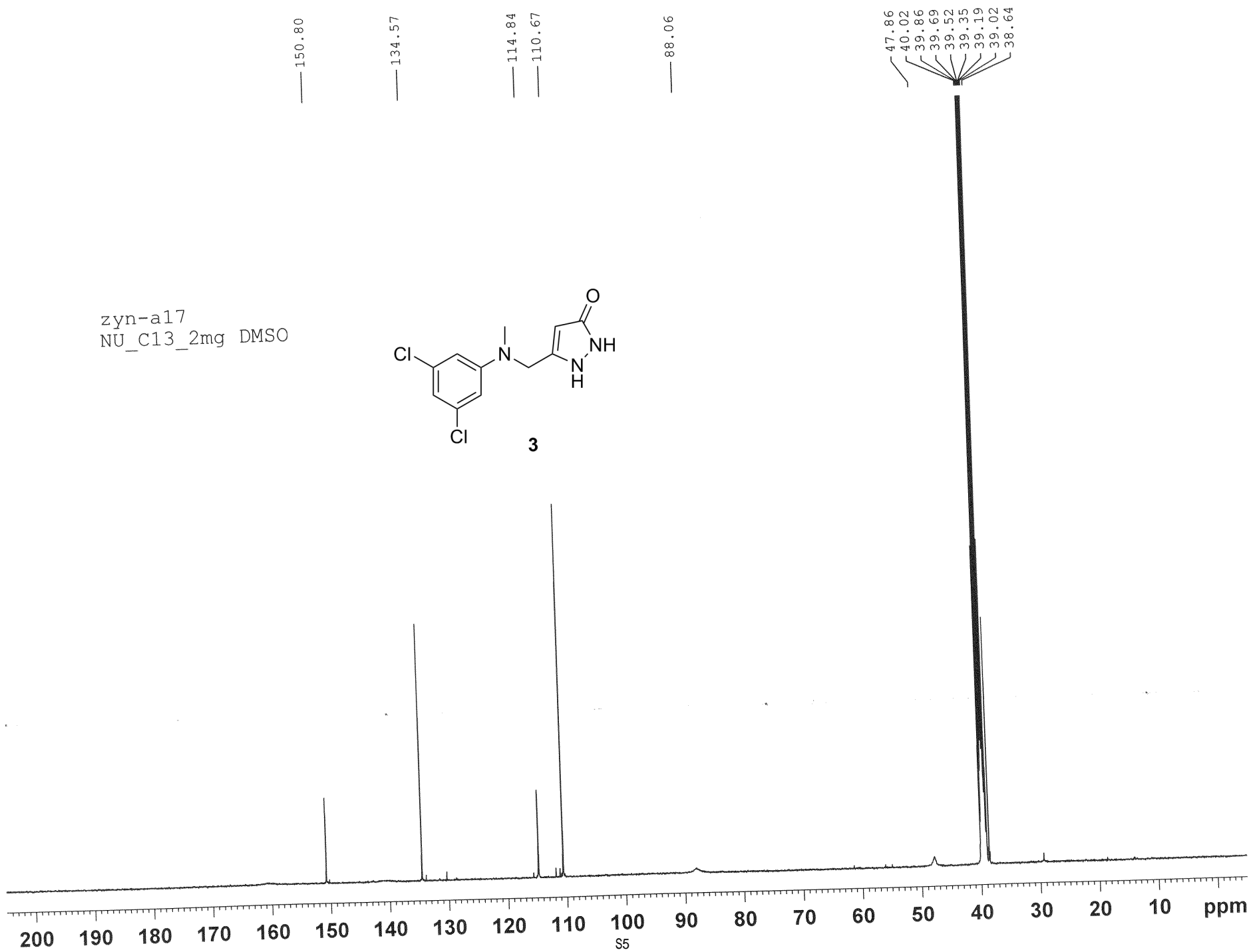
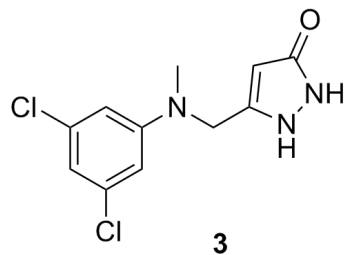
— 5.239

— 4.400

— 2.957

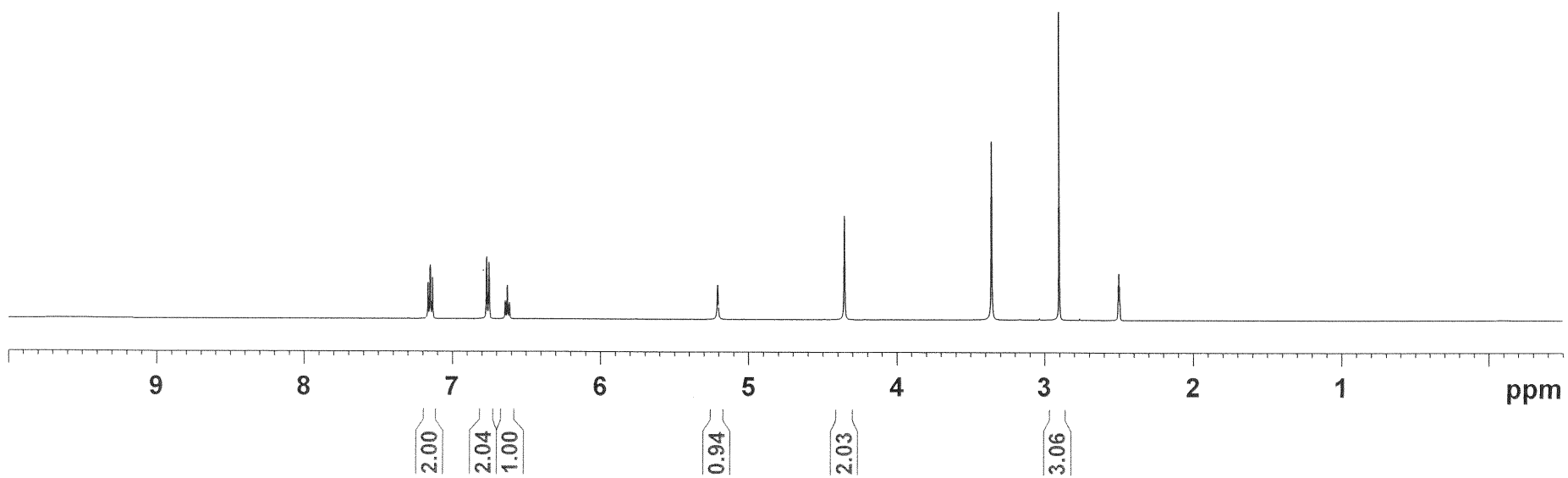
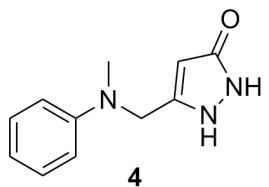
zyn-a17  
PROTON DMSO

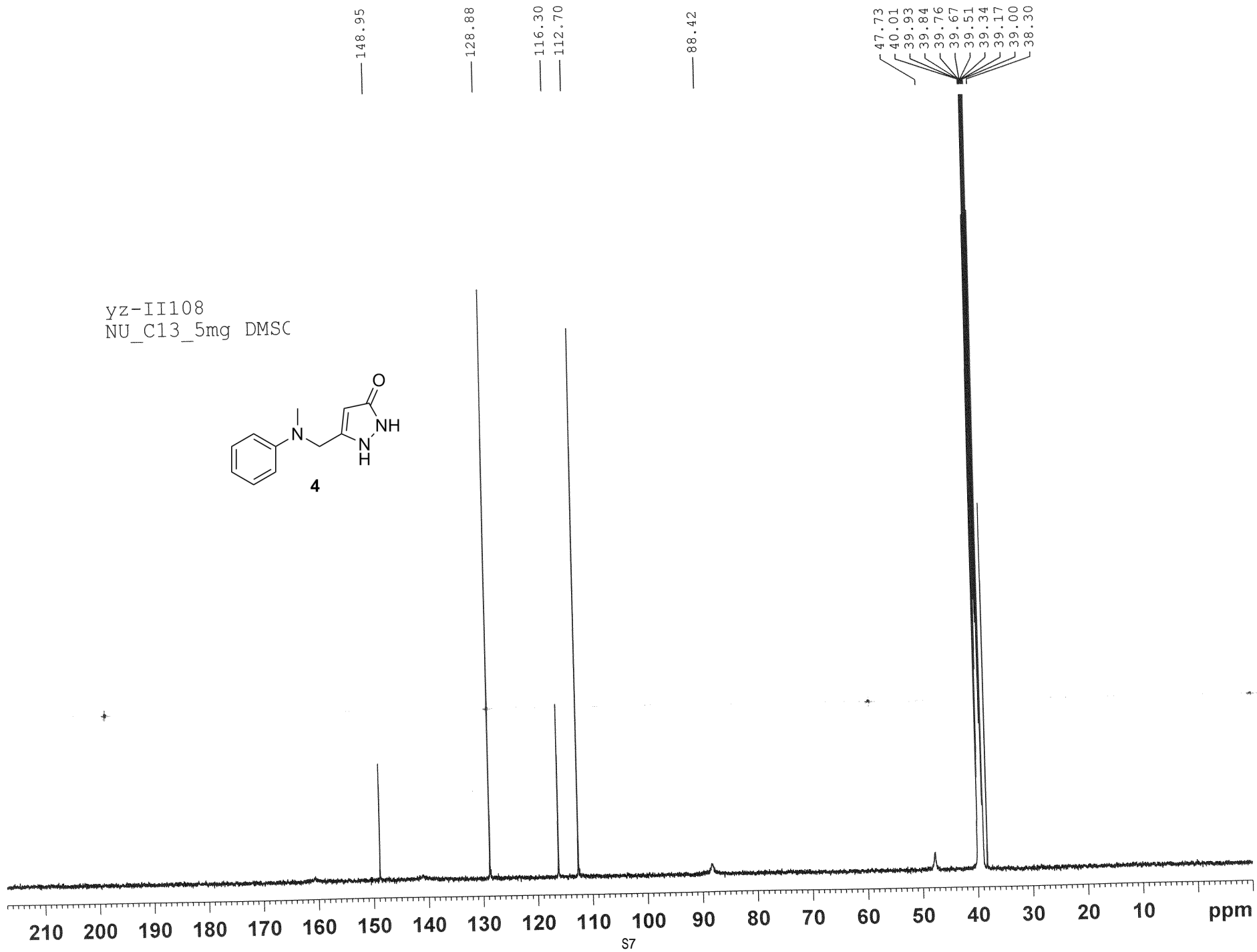
zyn-a17  
NU\_C13\_2mg DMSO



7.165  
7.161  
7.150  
7.147  
7.137  
7.133  
6.767  
6.751  
6.642  
6.627  
6.613  
— 5.207  
— 4.355  
— 3.358  
— 2.902  
2.503  
2.500  
2.497

yz-III108  
PROTON DMSO



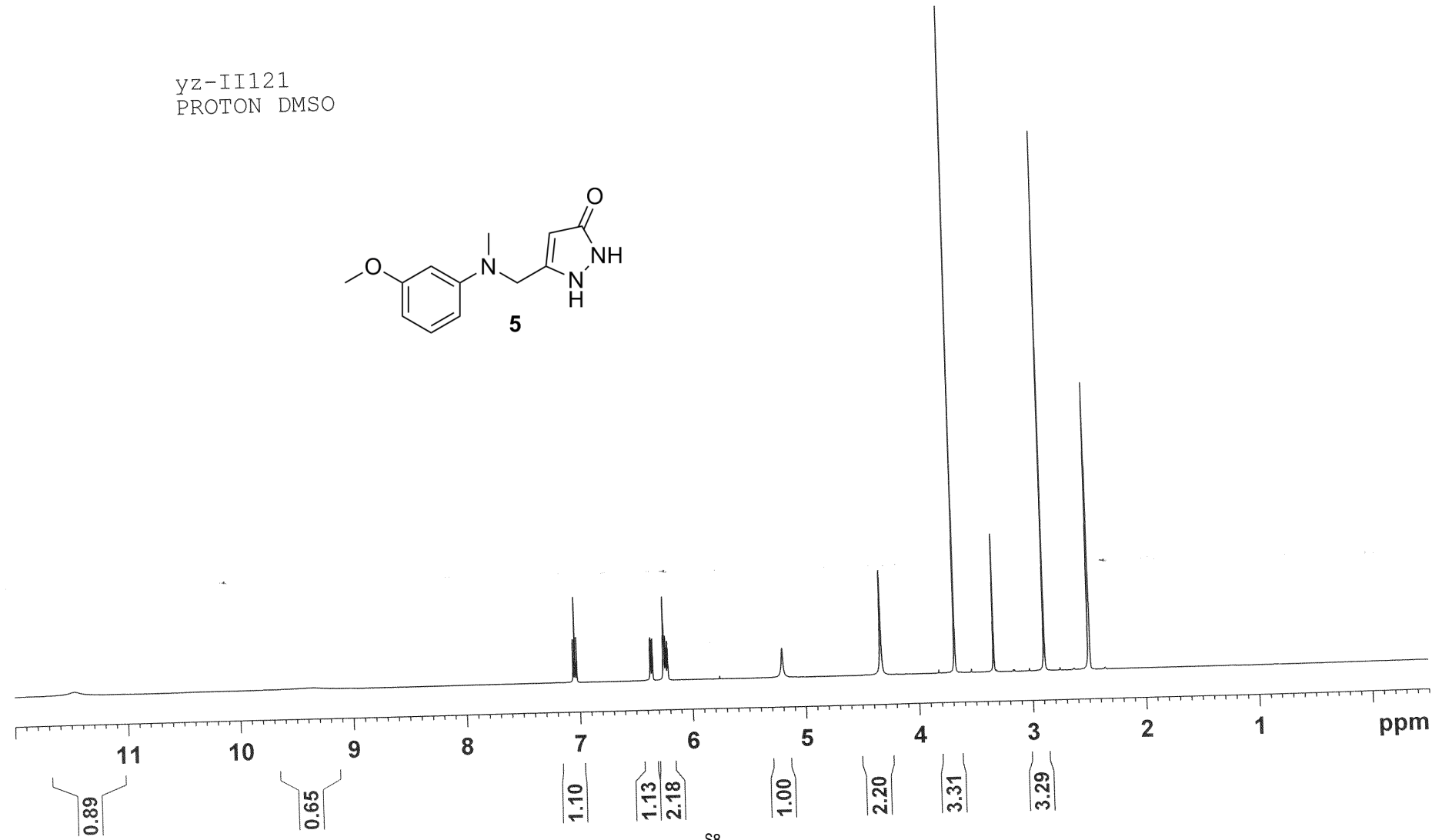
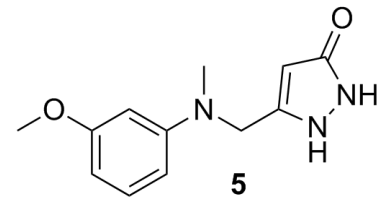


—11.467

—9.363

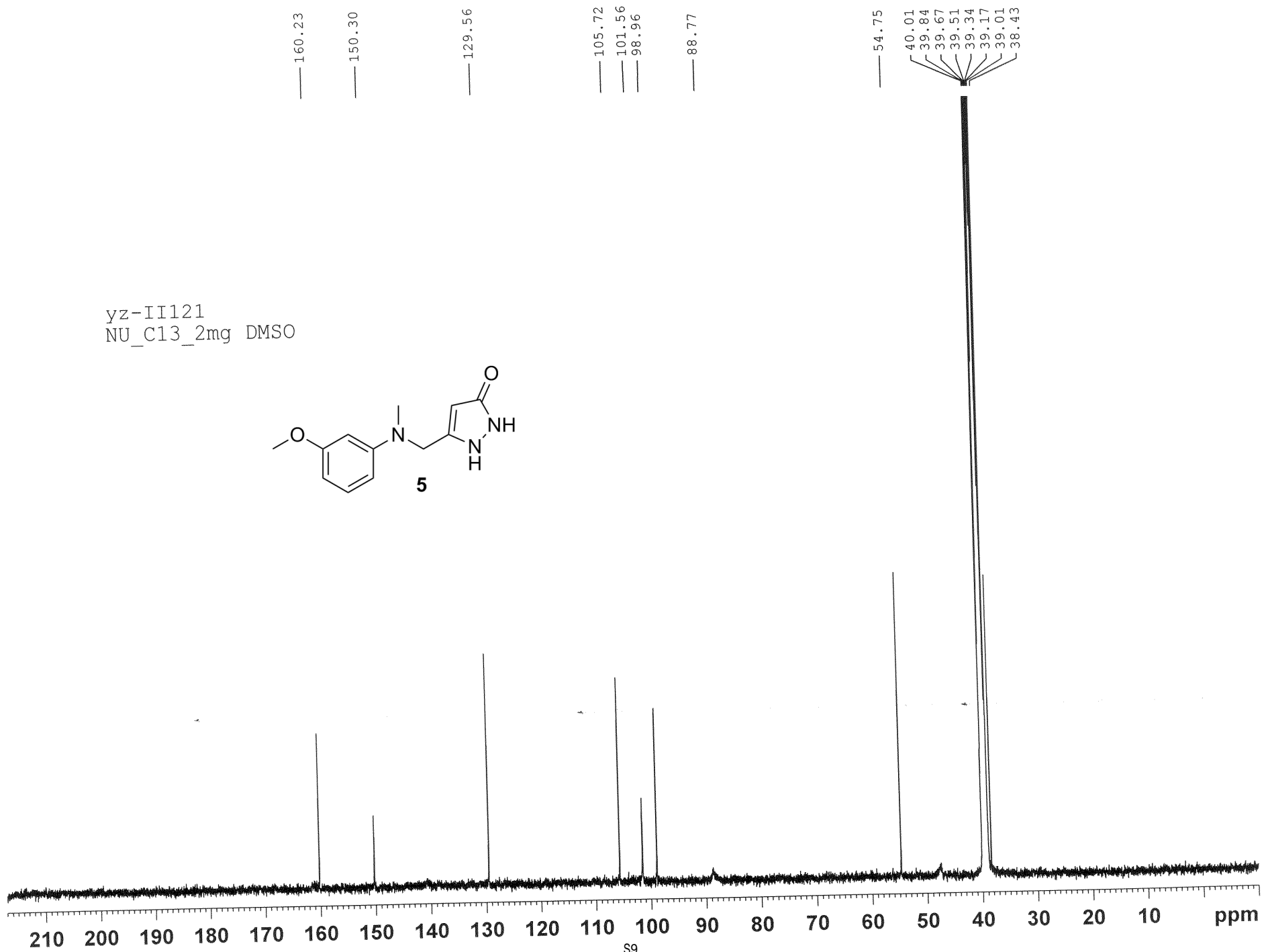
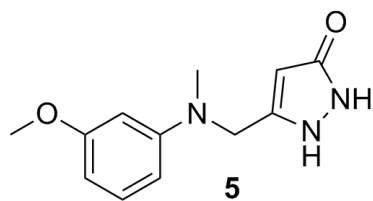
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 6.371  
 6.367  
 6.354  
 6.350  
 6.256  
 6.252  
 6.247  
 6.236  
 6.232  
 6.220  
 6.216  
 5.205  
 —4.334  
 —3.682  
 —3.338  
 2.891  
 2.503  
 2.500  
 2.497  
 2.493  
 2.490

yz-III121  
PROTON DMSO





yz-III121  
NU\_C13\_2mg DMSO



7.541  
7.523

6.833  
6.815

5.254

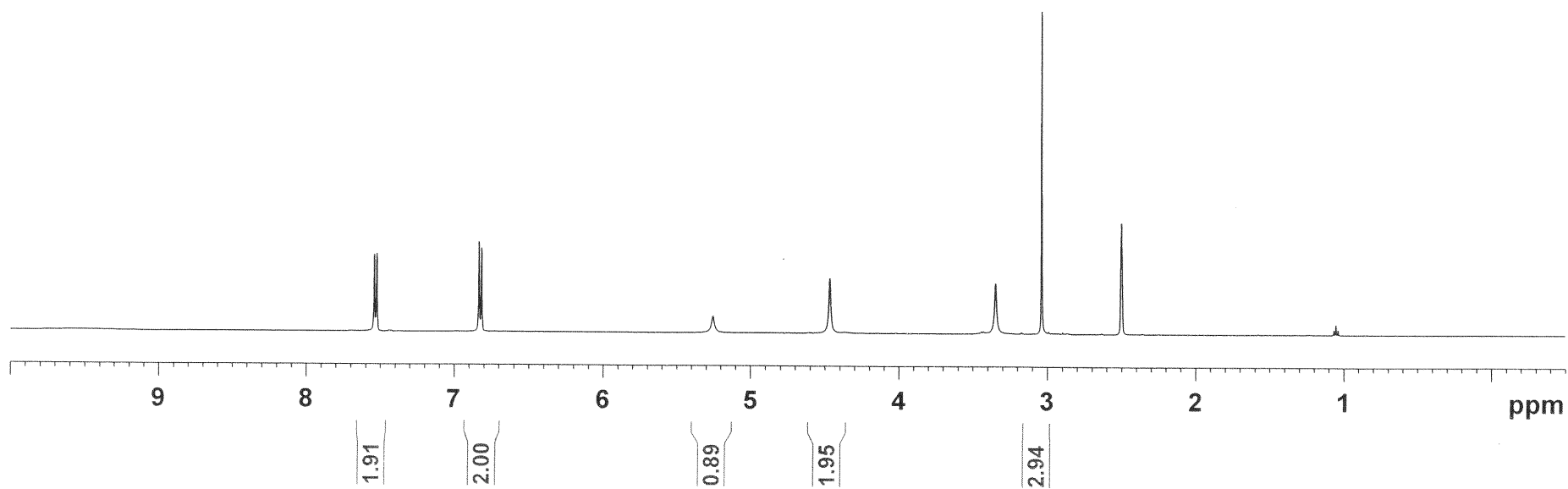
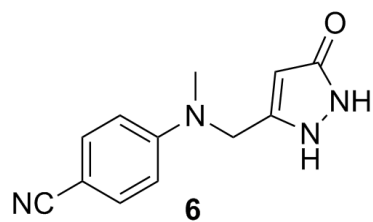
4.467

3.347

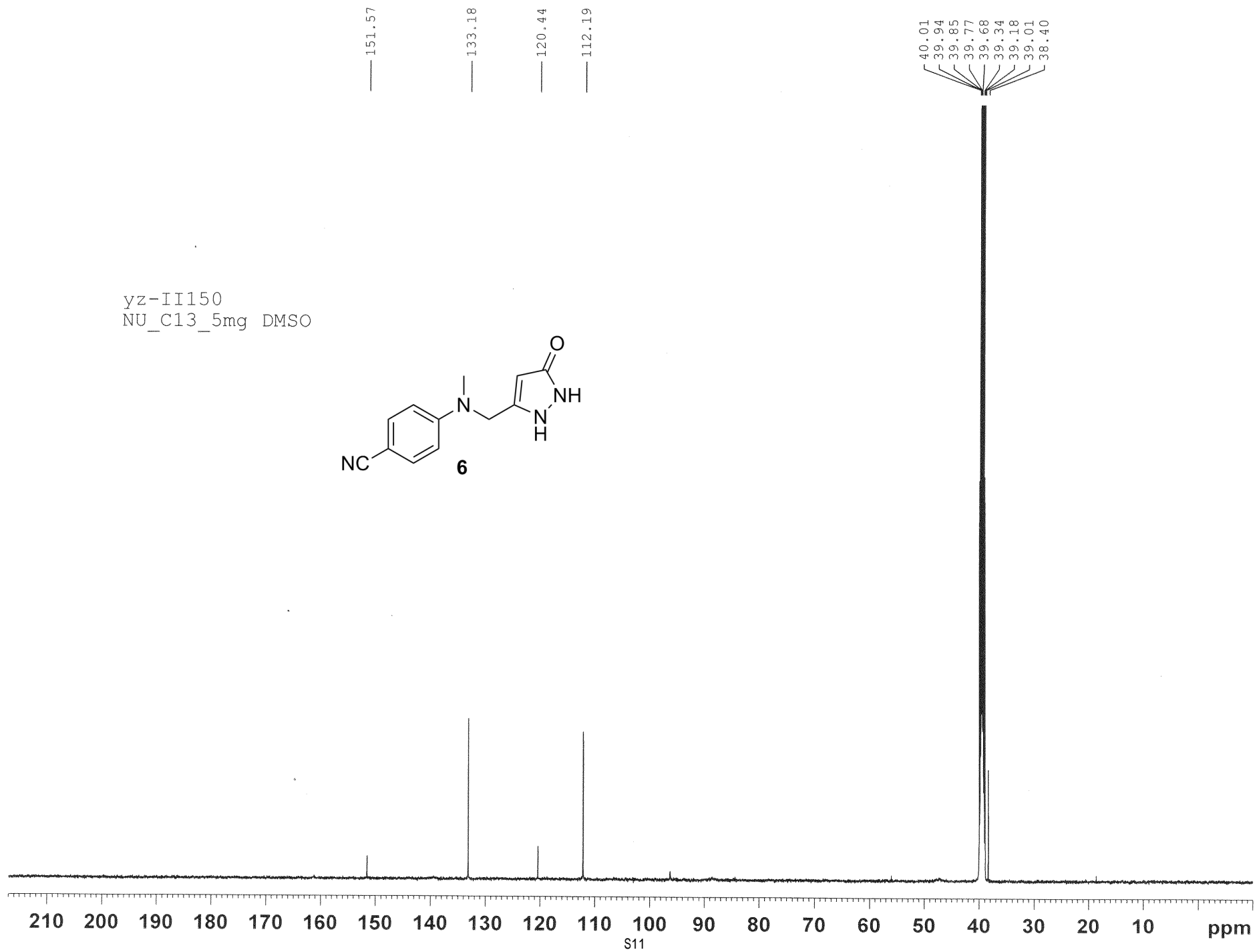
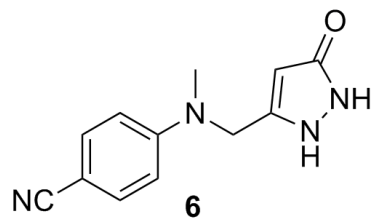
3.037

2.500

yz-III150  
PROTON DMSO



yz-III150  
NU\_C13\_5mg DMSO



— 11.468

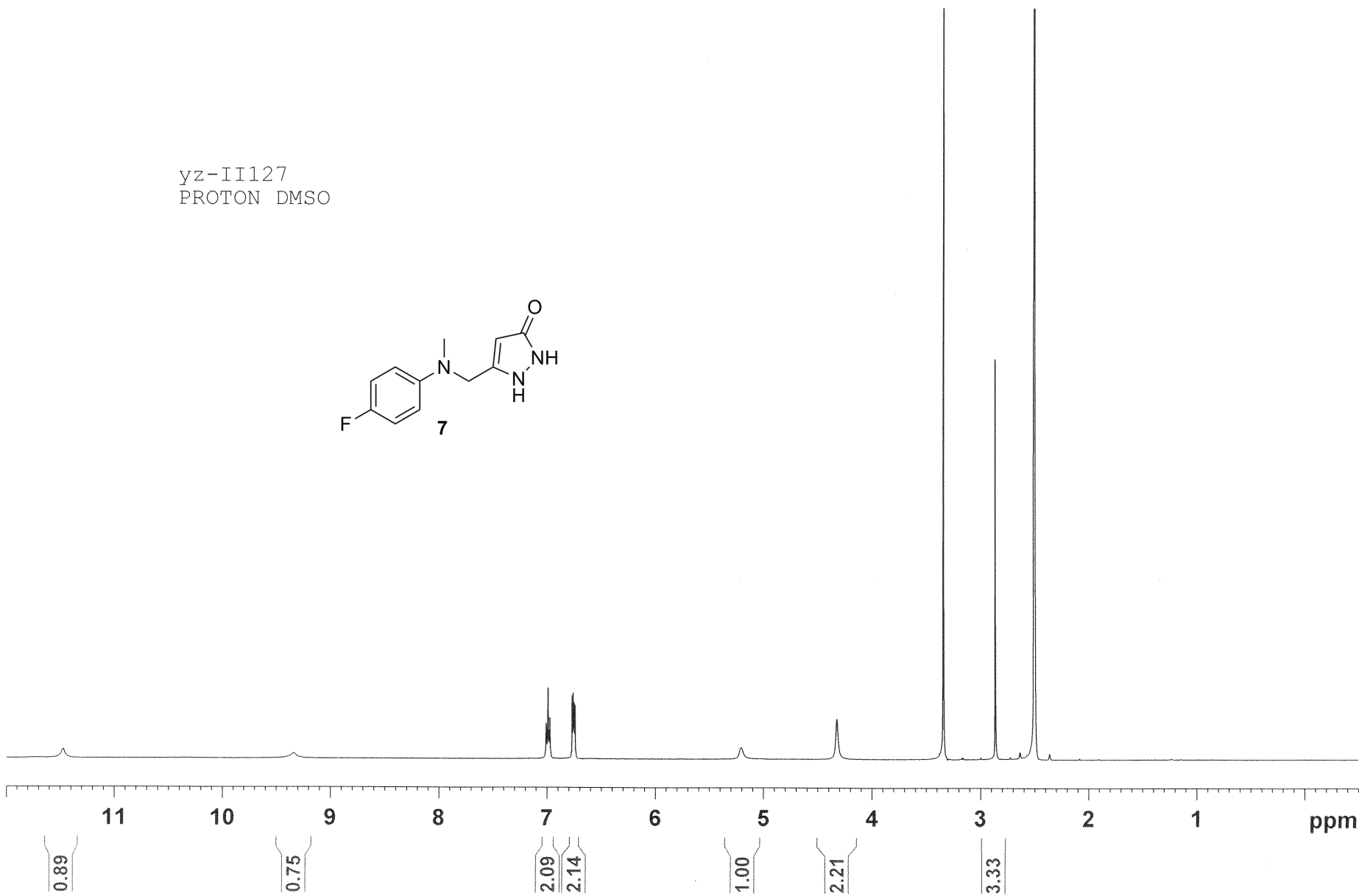
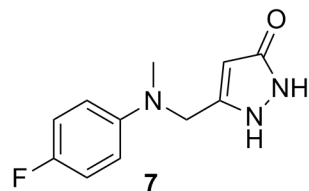
— 9.336

7.008  
6.990  
6.972  
6.769  
6.763  
6.760  
6.755  
6.750  
6.746  
6.741

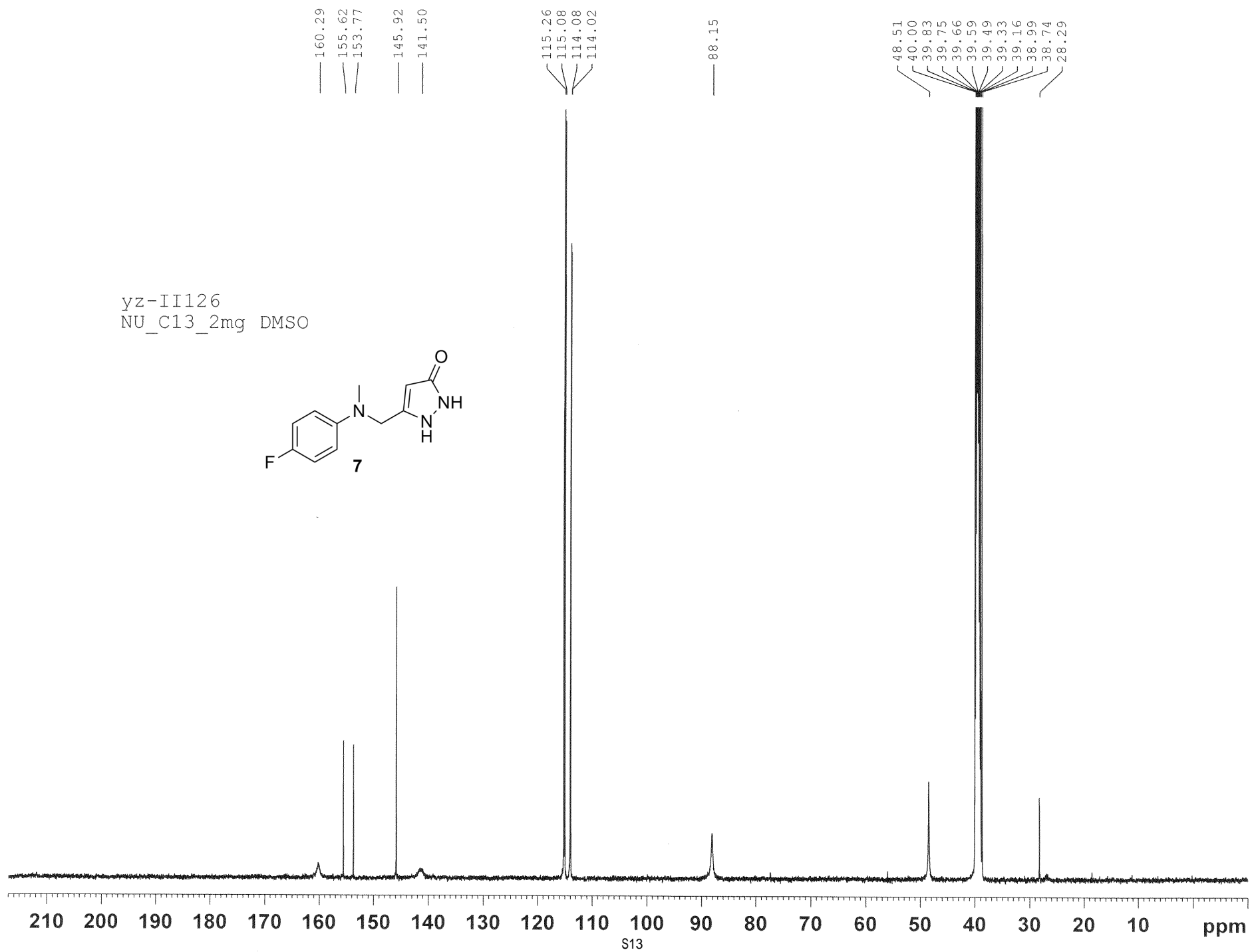
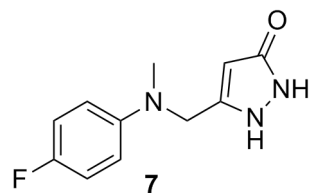
— 5.205

— 4.321

— 2.862

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PROTON DMSO

yz-III126  
NU\_C13\_2mg DMSO



7.169  
7.152  
6.761  
6.744

5.201

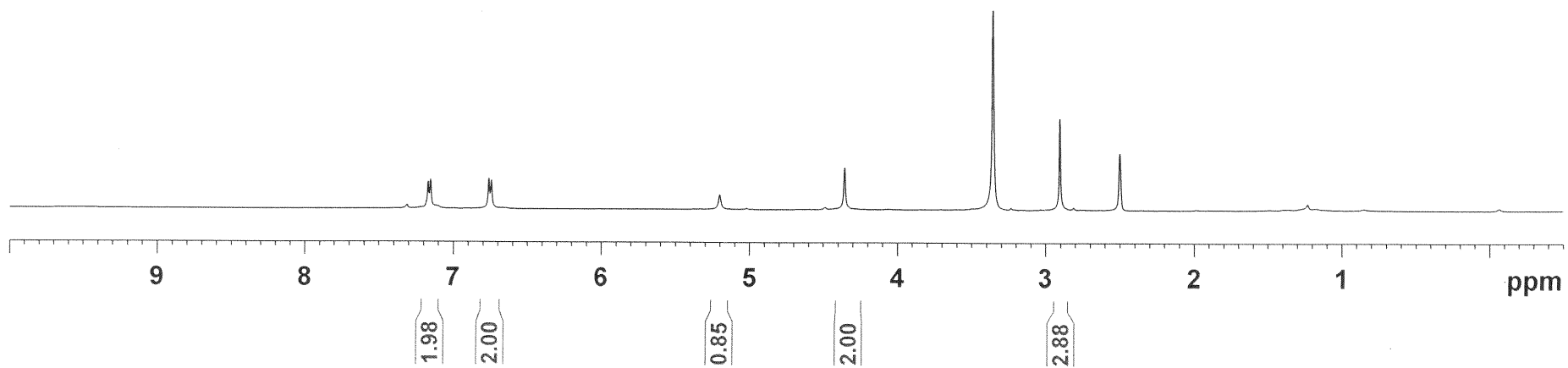
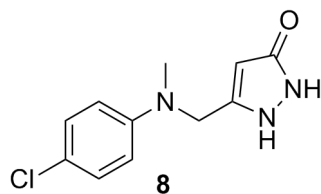
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3.355

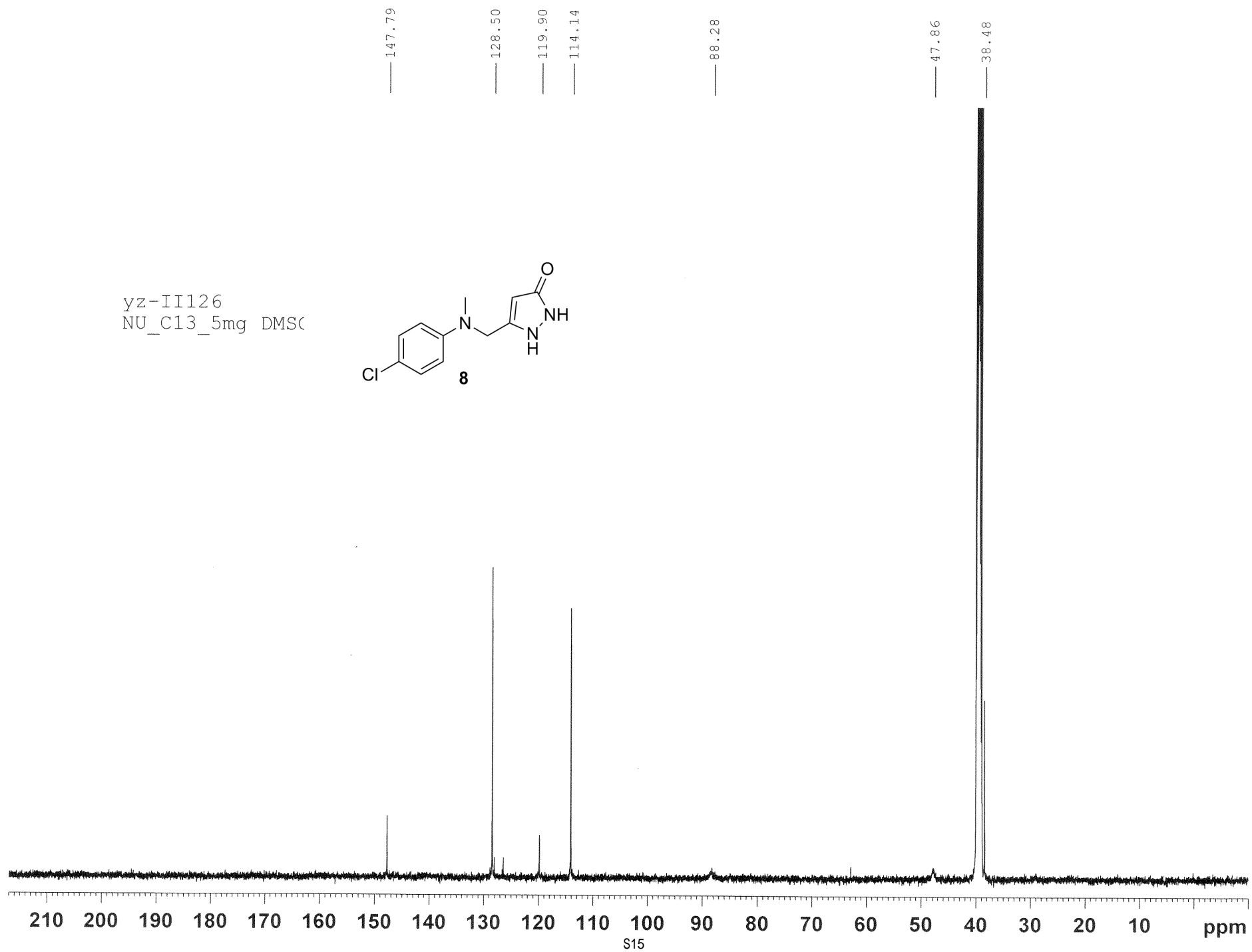
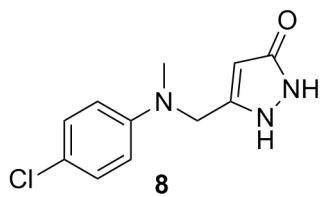
2.903

2.500

yz-III126  
PROTON DMSO

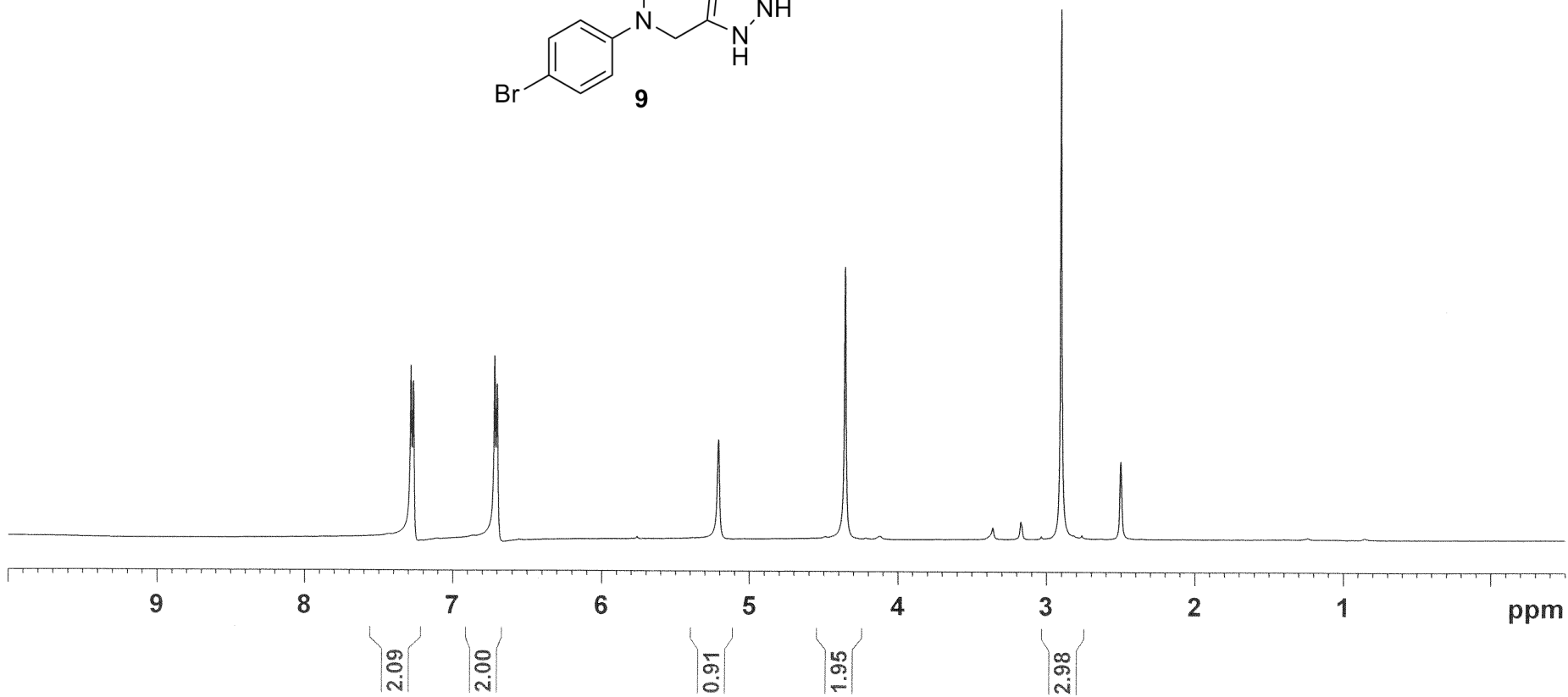
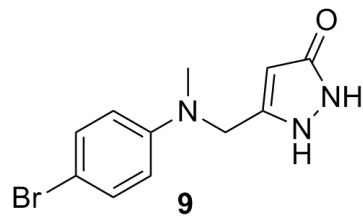


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NU\_C13\_5mg DMSO



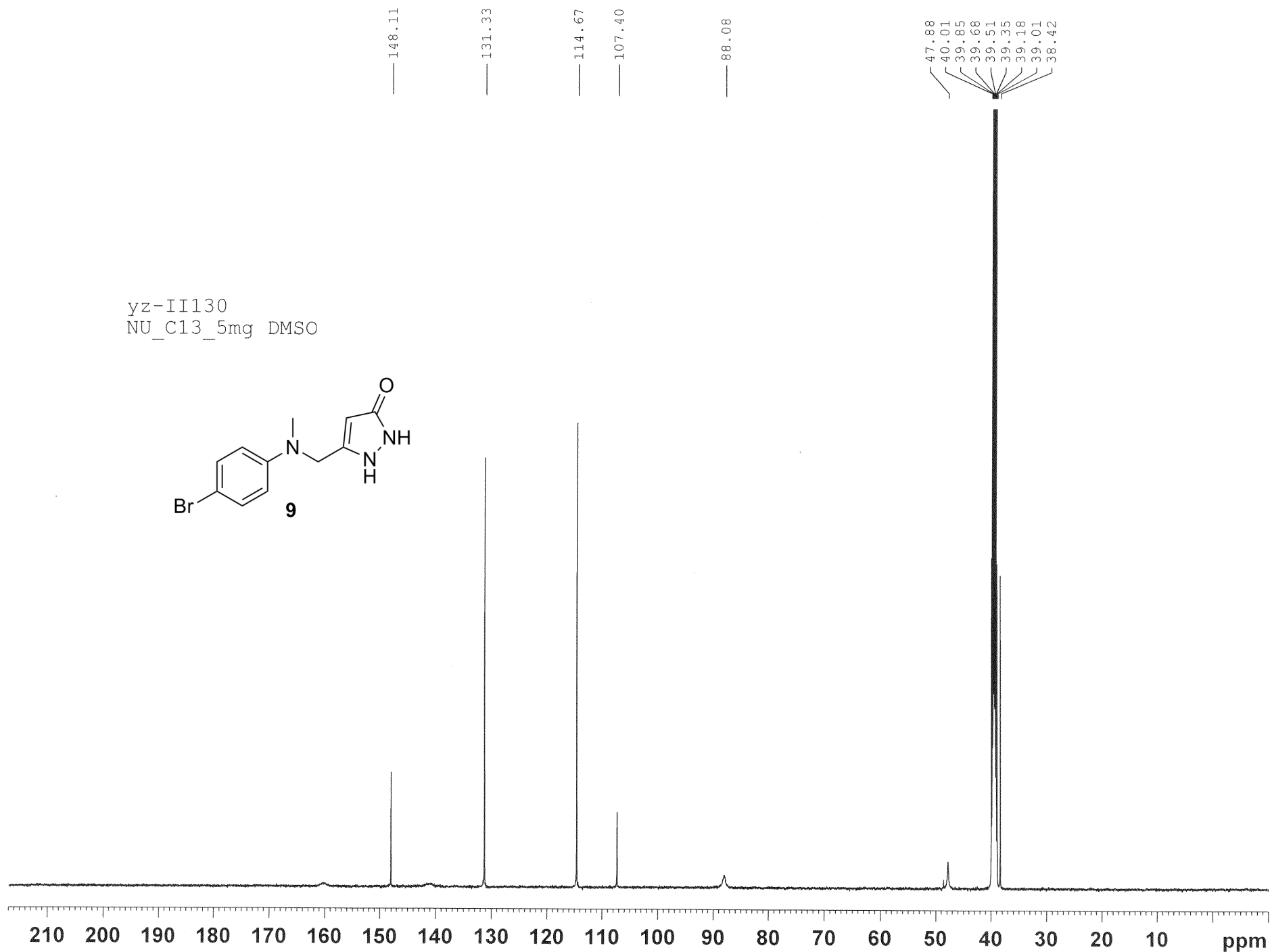
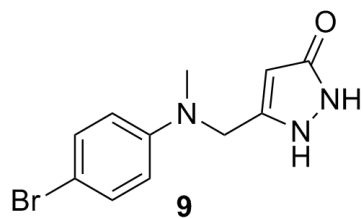
7.282  
7.265  
6.716  
6.699  
5.208  
4.355  
2.900  
2.500

yz-III130  
PROTON DMSO





yz-III130  
NU\_C13\_5mg DMSO



—11.507

—9.453

7.098  
7.082  
7.066  
6.863  
6.772  
6.758  
6.742  
6.737

—5.218

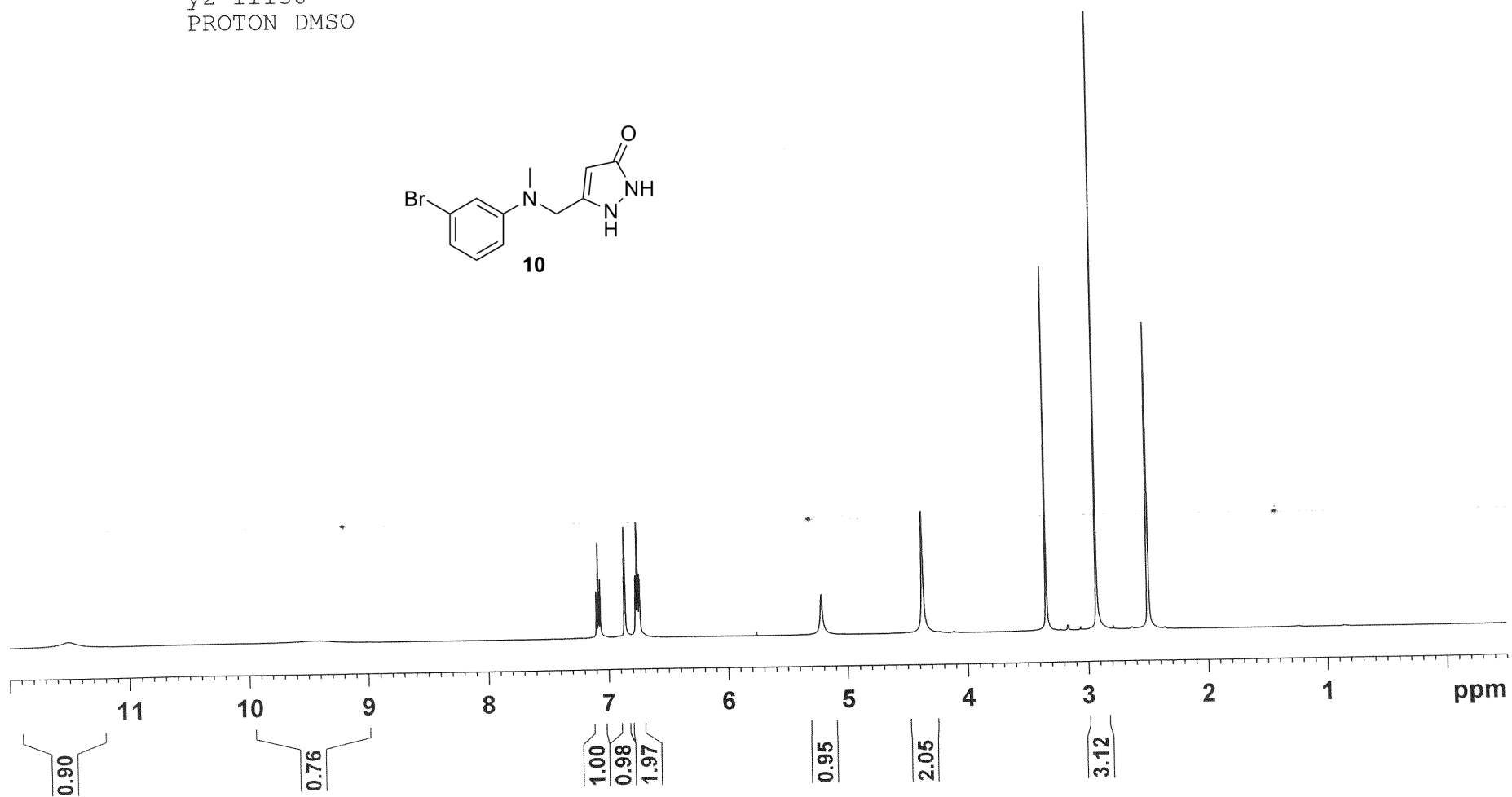
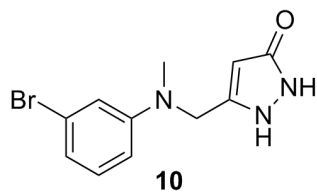
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—3.344

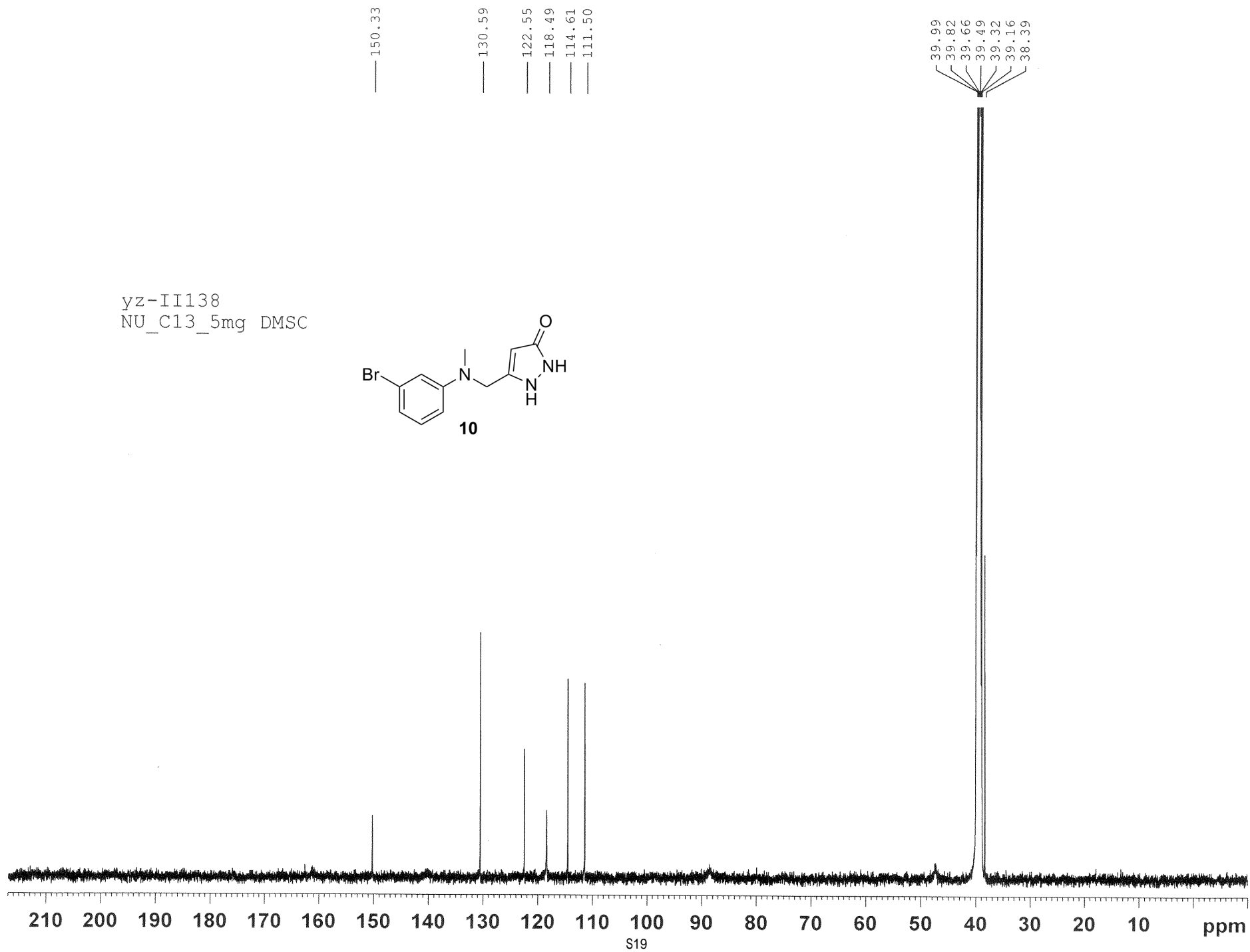
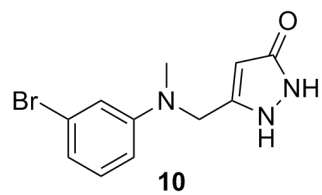
—2.928

—2.500

yz-III138  
PROTON DMSO



yz-III138  
NU\_C13\_5mg DMSC



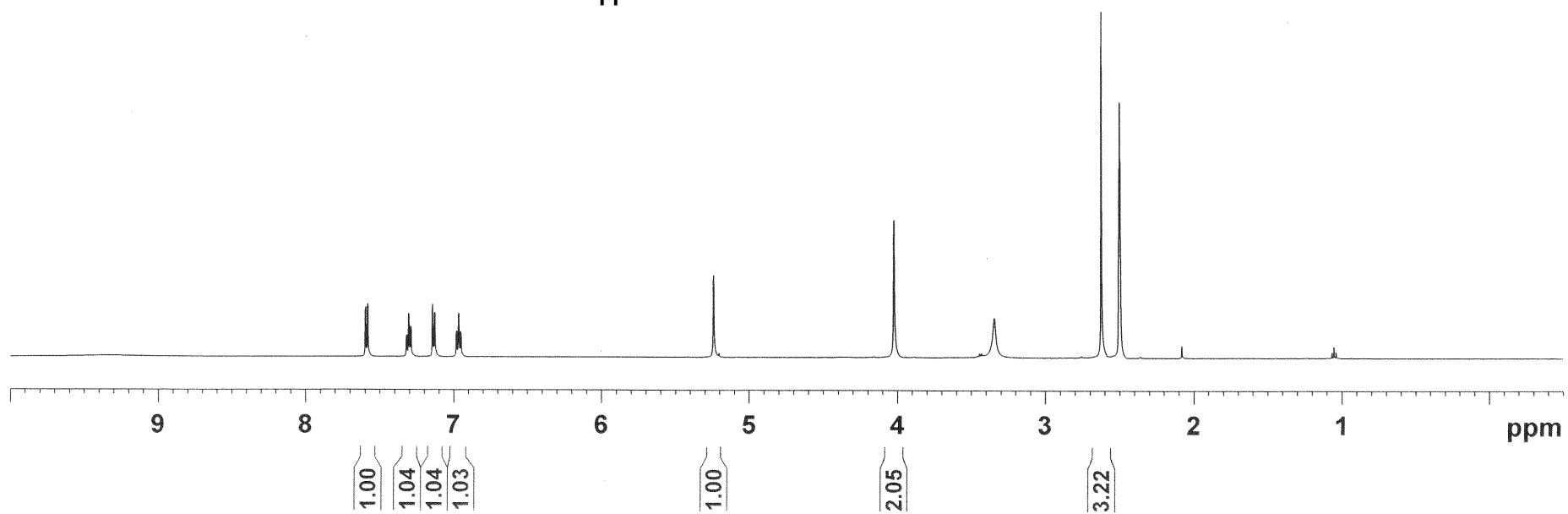
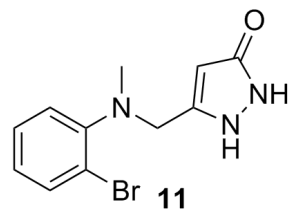
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7.596  
7.582  
7.580  
7.322  
7.319  
7.306  
7.305  
7.291  
7.289  
7.145  
7.143  
7.129  
7.127  
6.983  
6.980  
6.967  
6.965  
6.952  
6.950  
5.241

4.022

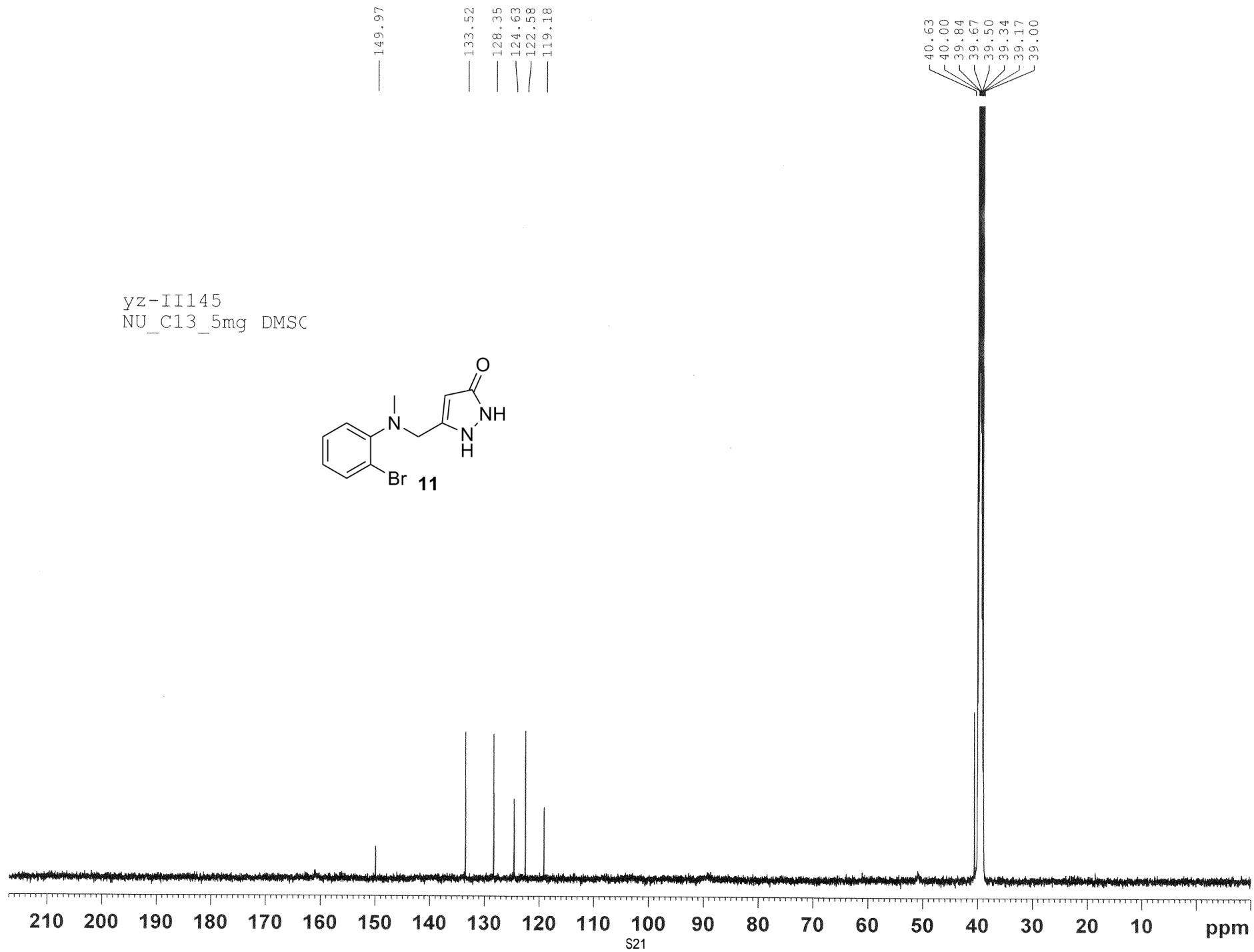
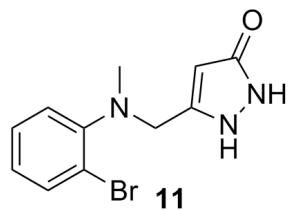
3.343

2.624  
2.503  
2.500  
2.497

yz-III145  
PROTON DMSO

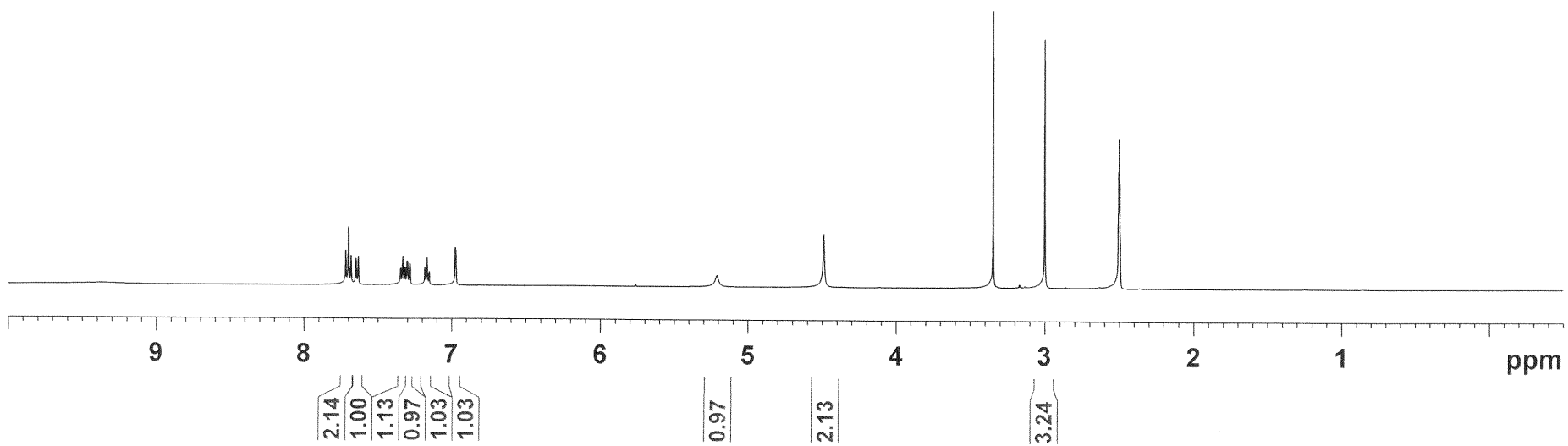
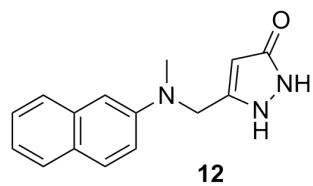


yz-III145  
NU\_C13\_5mg DMSC

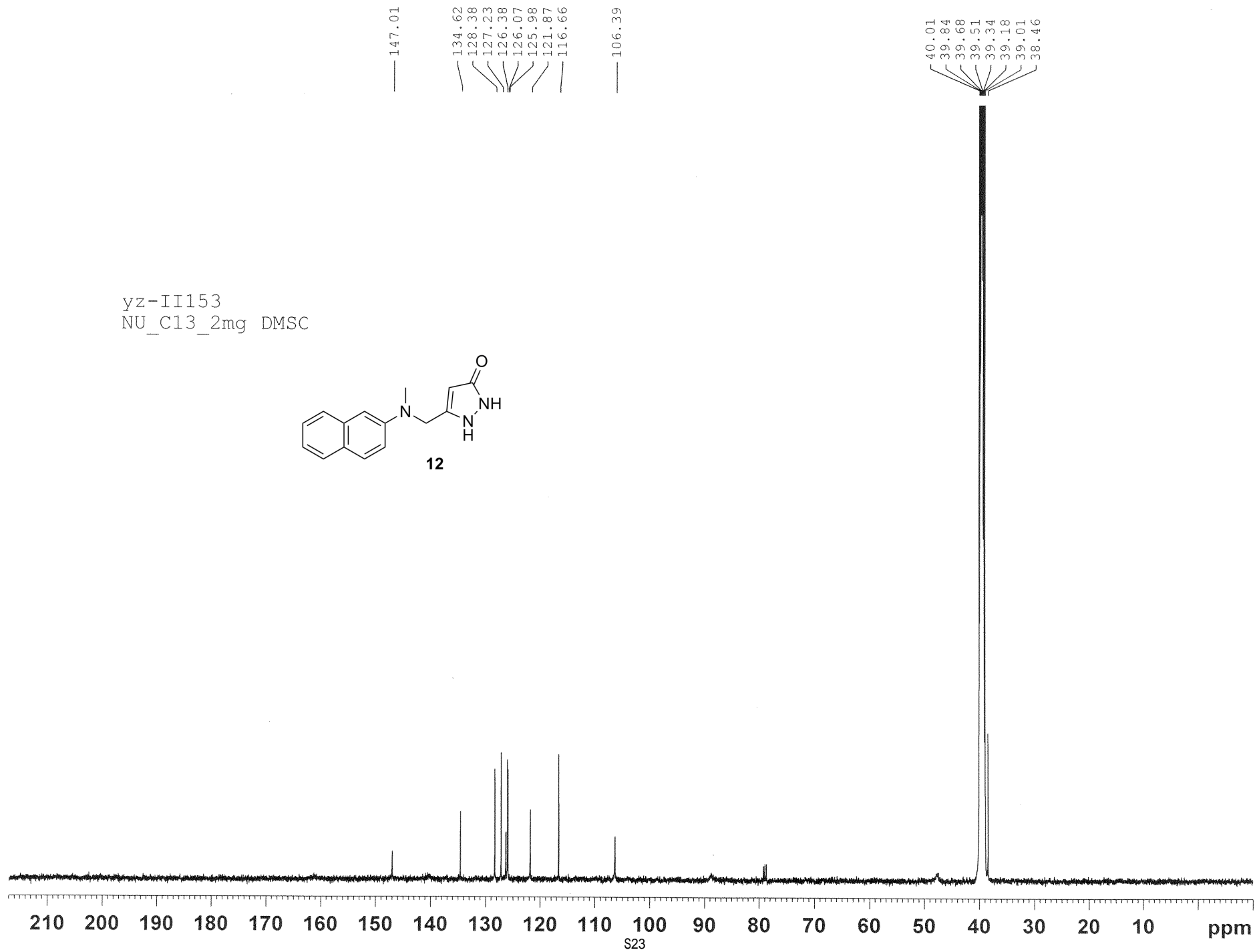
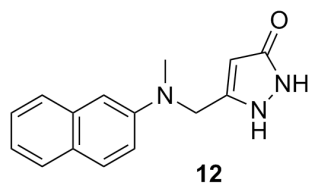


7.718  
7.700  
7.682  
7.650  
7.633  
7.349  
7.347  
7.333  
7.319  
7.316  
7.305  
7.300  
7.287  
7.282  
7.183  
7.181  
7.167  
7.153  
7.151  
6.976  
6.972  
— 5.210  
— 4.489  
— 3.344  
— 2.999  
2.504  
2.500  
2.497

yz-III153  
PROTON DMSO



yz-III153  
NU\_C13\_2mg DMSC



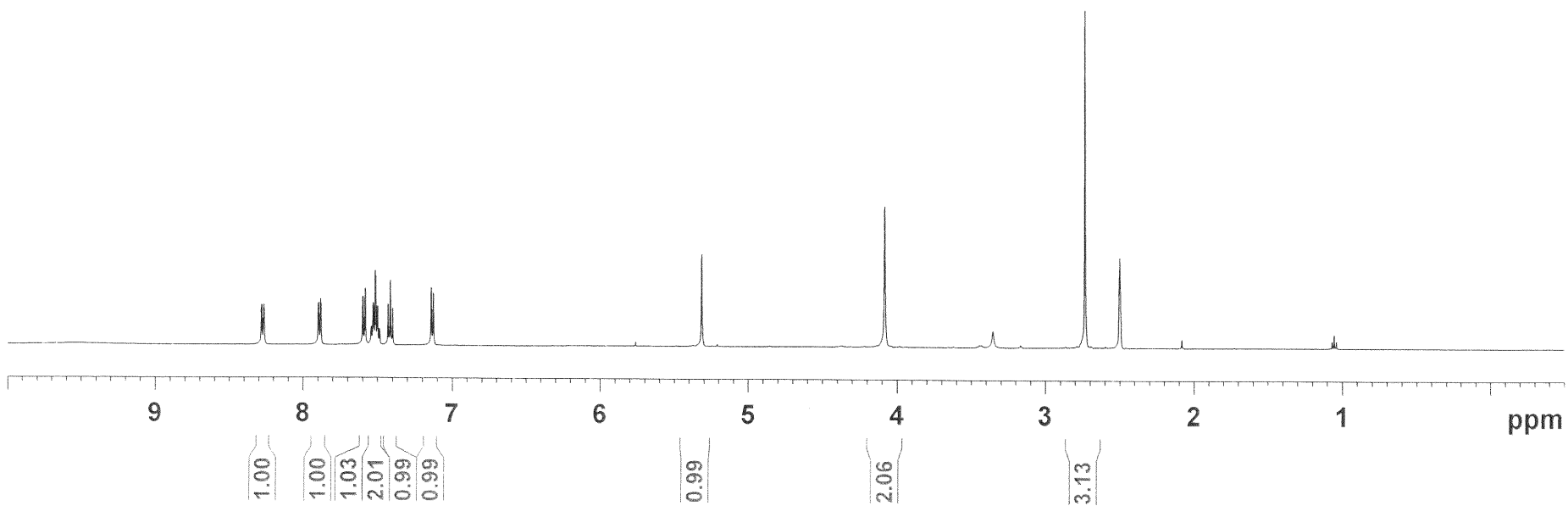
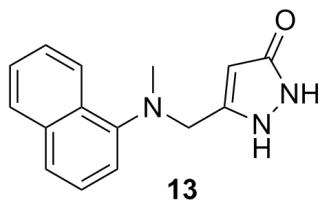
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7.877  
7.596  
7.580  
7.528  
7.526  
7.513  
7.510  
7.498  
7.495  
7.428  
7.412  
7.396  
7.140  
7.126

— 5.314

— 4.082

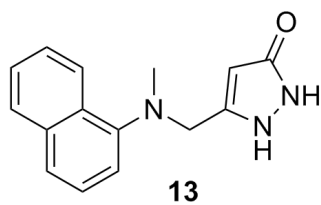
2.732  
2.502  
2.499  
2.495

yz-III167  
PROTON DMSO



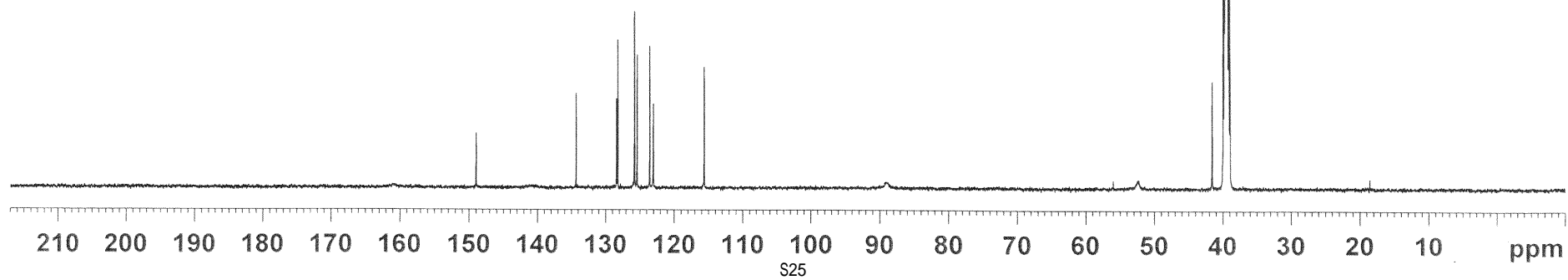


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NU\_C13\_5mg DMSO



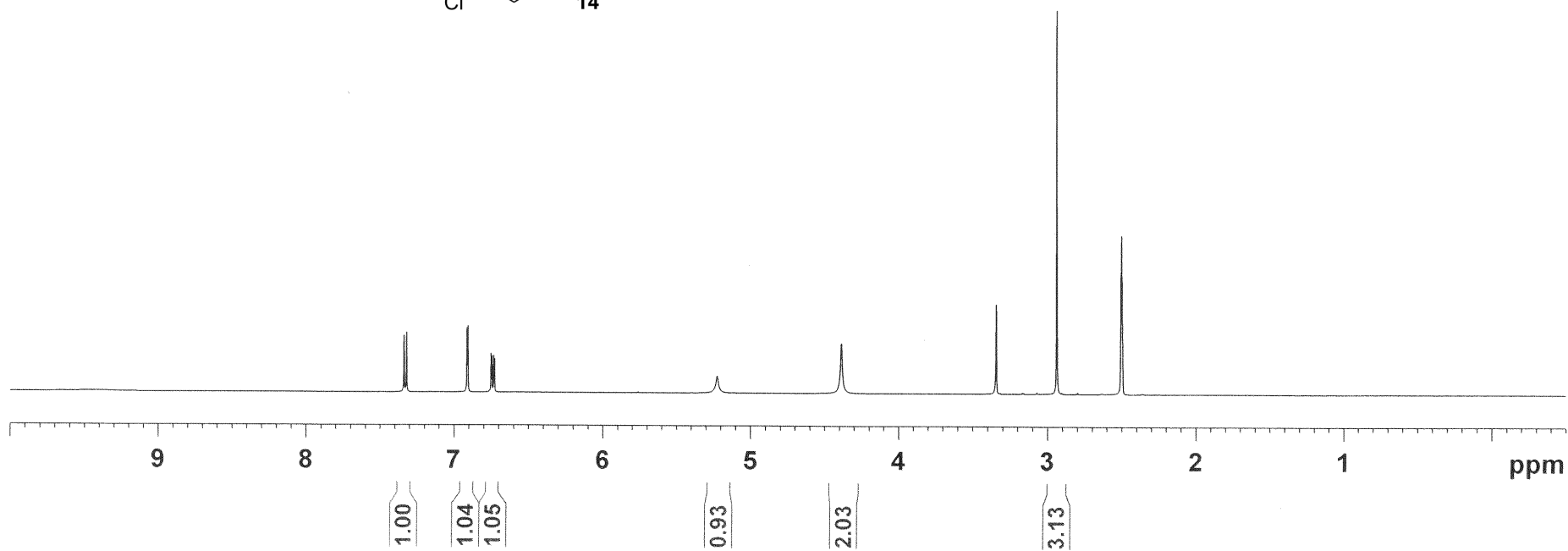
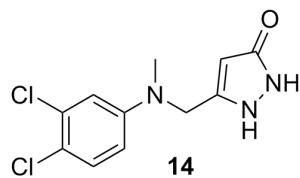
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134.36  
128.46  
128.27  
125.85  
125.81  
125.44  
123.61  
123.08  
115.67

41.61  
39.99  
39.91  
39.82  
39.75  
39.66  
39.49  
39.32  
39.16  
38.99

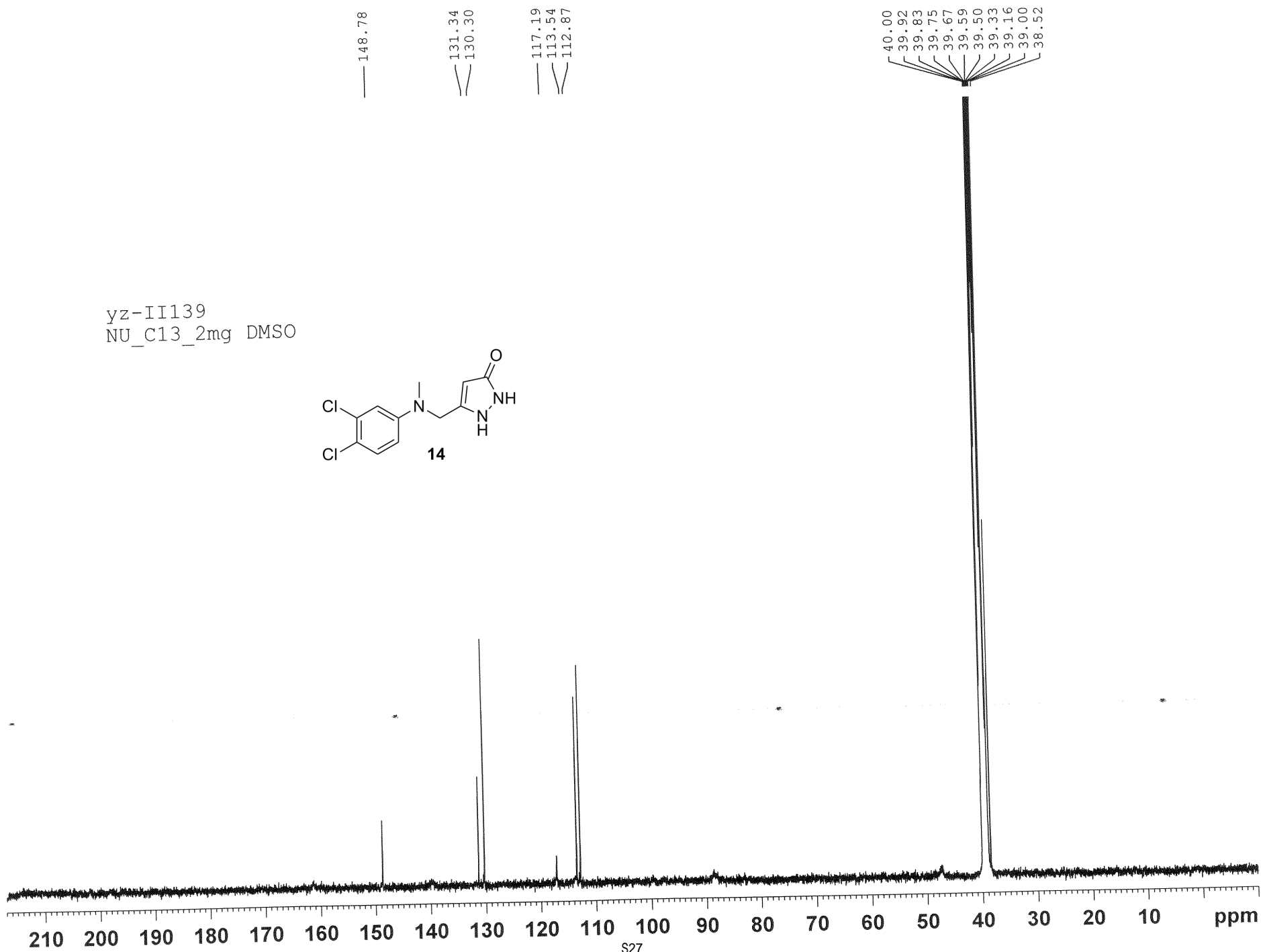
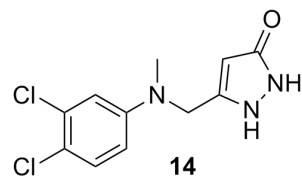


7.335  
7.317  
6.910  
6.904  
6.750  
6.744  
6.731  
6.726  
— 5.224  
— 4.386  
— 3.342  
— 2.936  
2.503  
2.500  
2.496

yz-III139  
PROTON DMSO



yz-III139  
NU\_C13\_2mg DMSO



7.535  
7.531  
7.322  
7.318  
7.305  
7.301  
7.100  
7.083

— 5.201

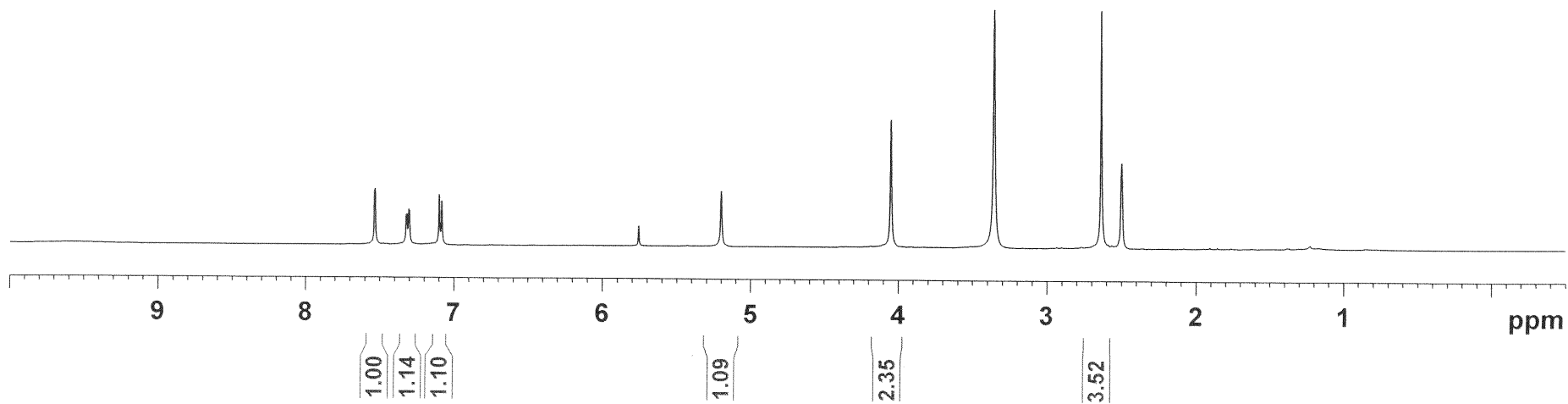
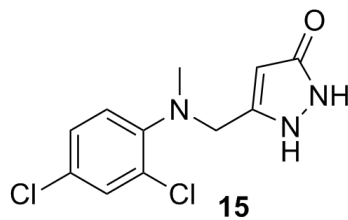
— 4.049

— 3.356

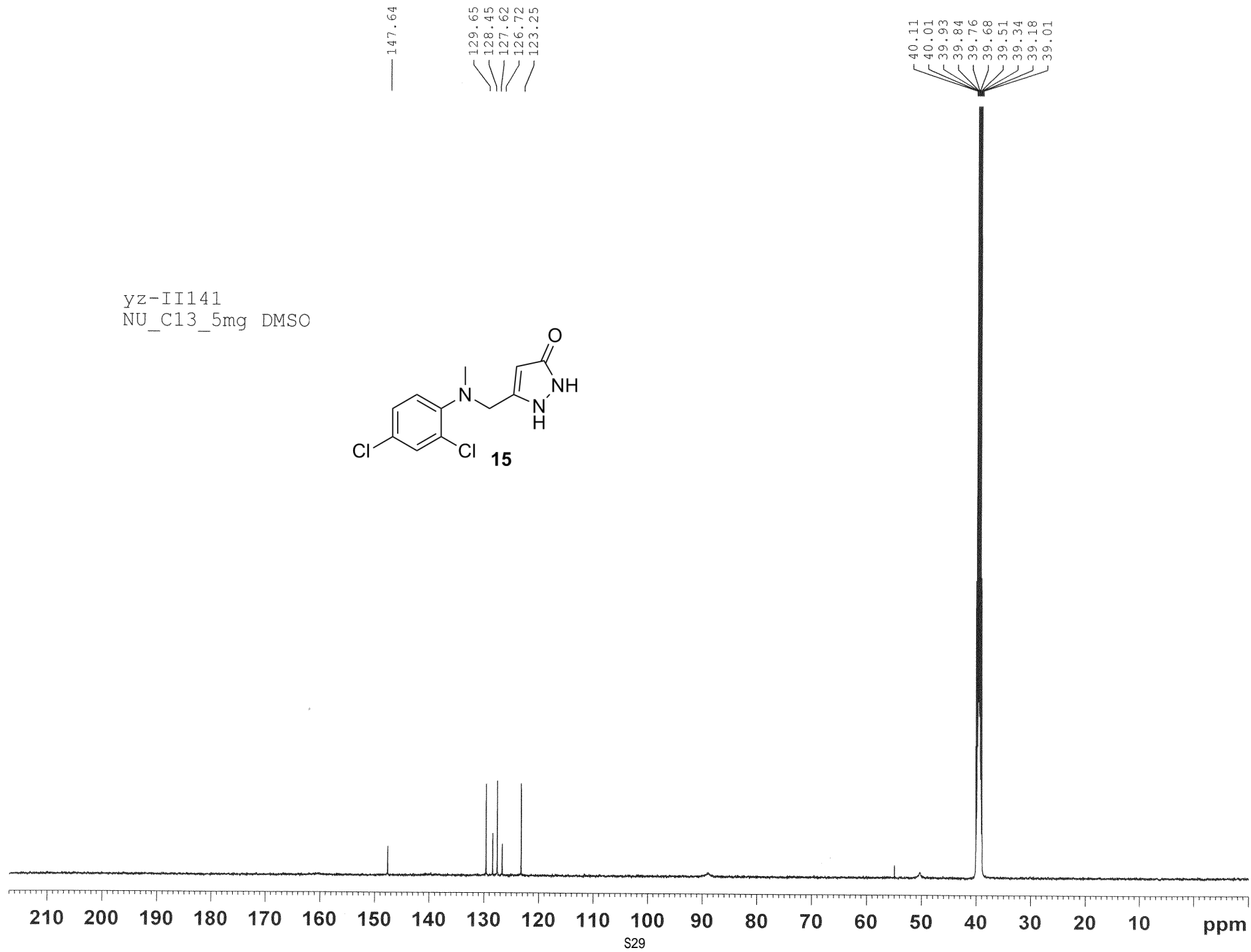
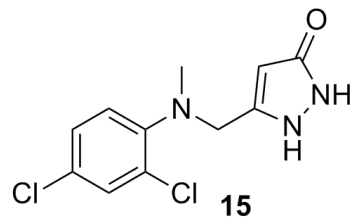
— 2.635

— 2.498

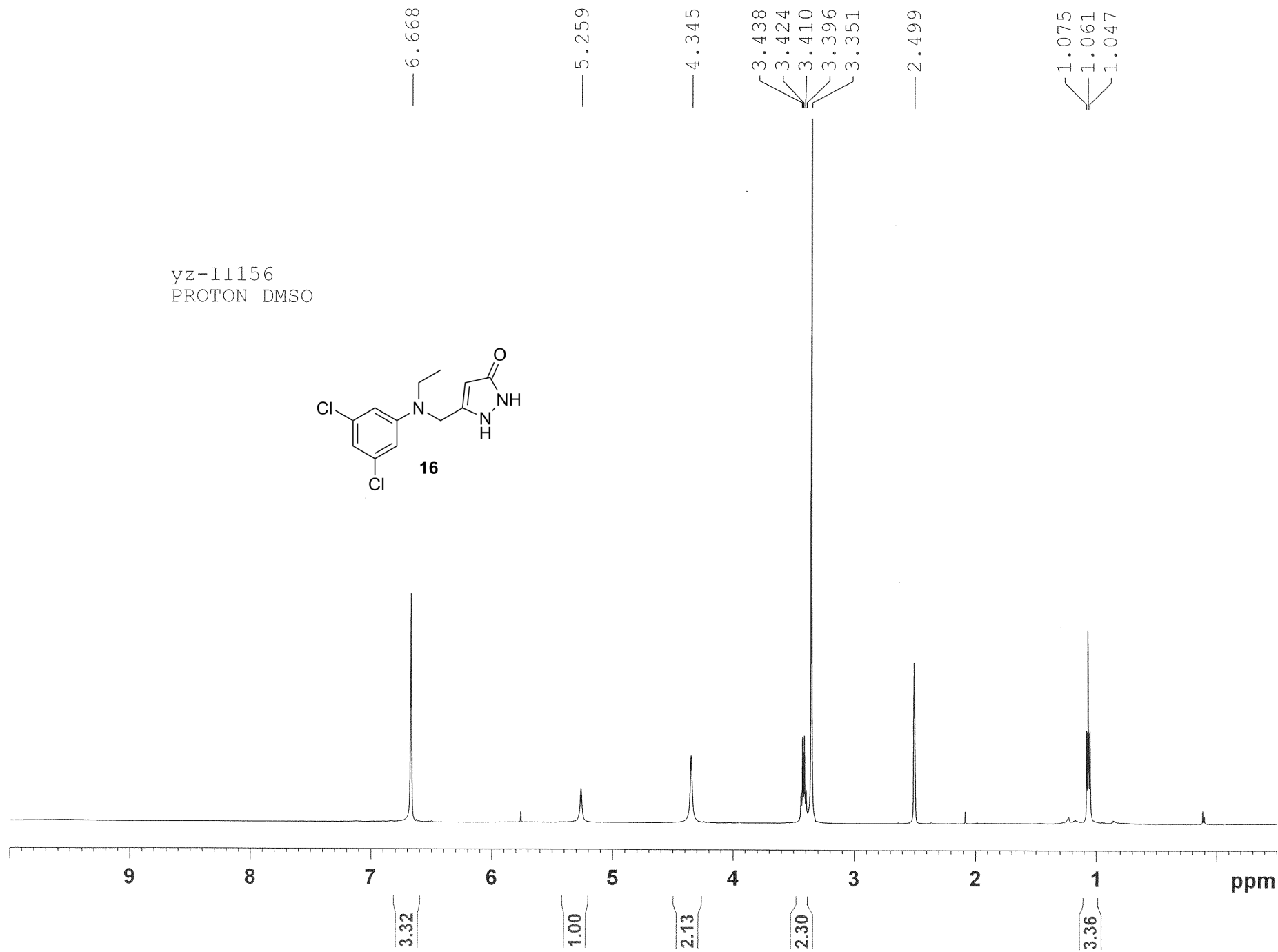
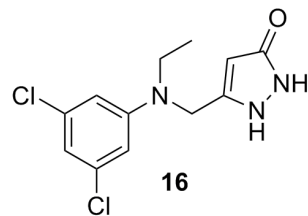
yz-III141  
PROTON DMSO



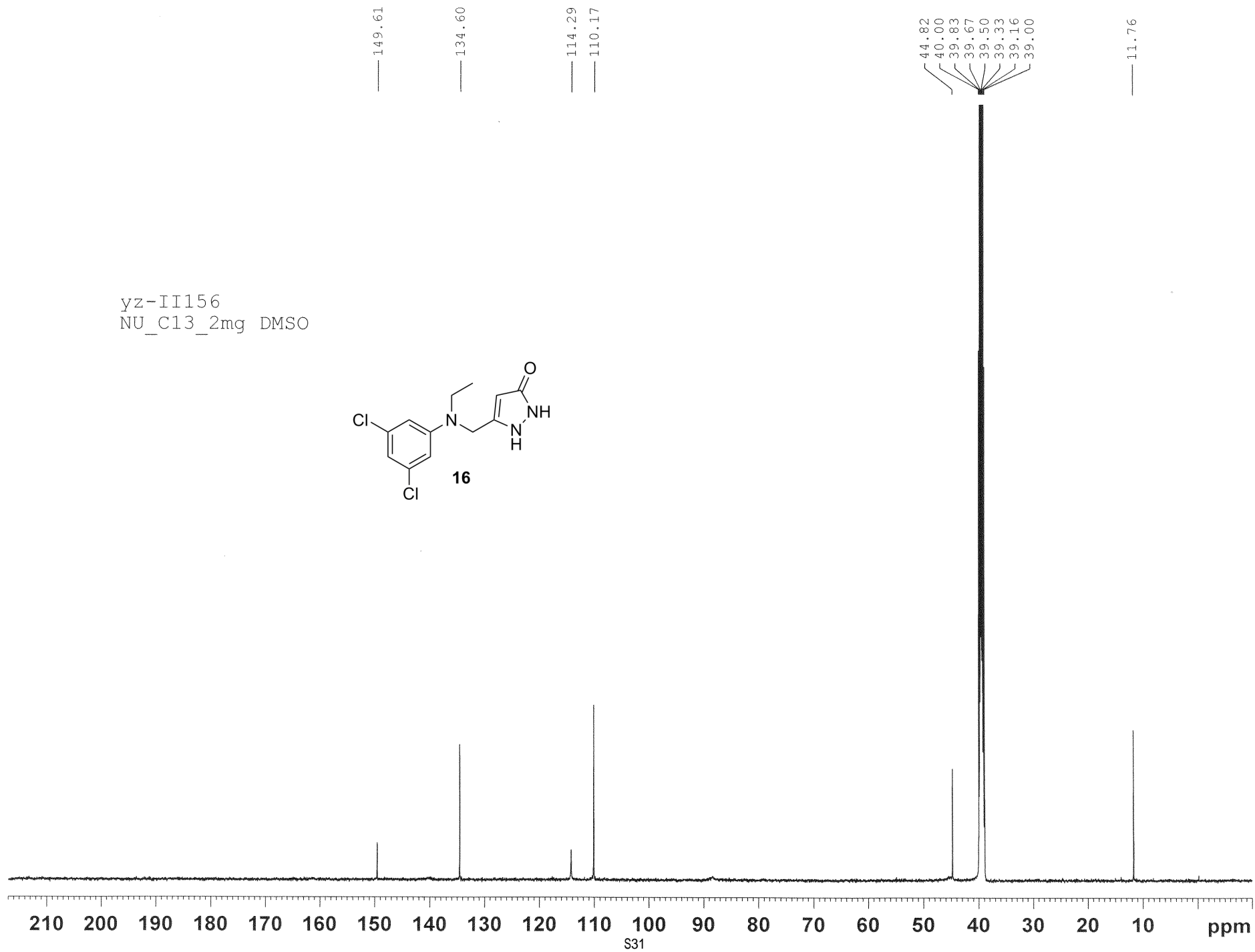
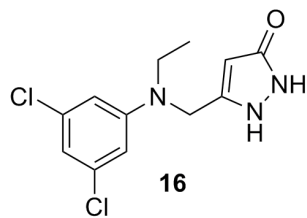
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NU\_C13\_5mg DMSO



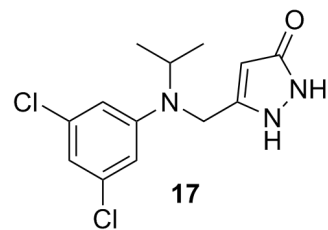
yz-III156  
PROTON DMSO



yz-III156  
NU\_C13\_2mg DMSO



yz-III173  
PROTON DMSO



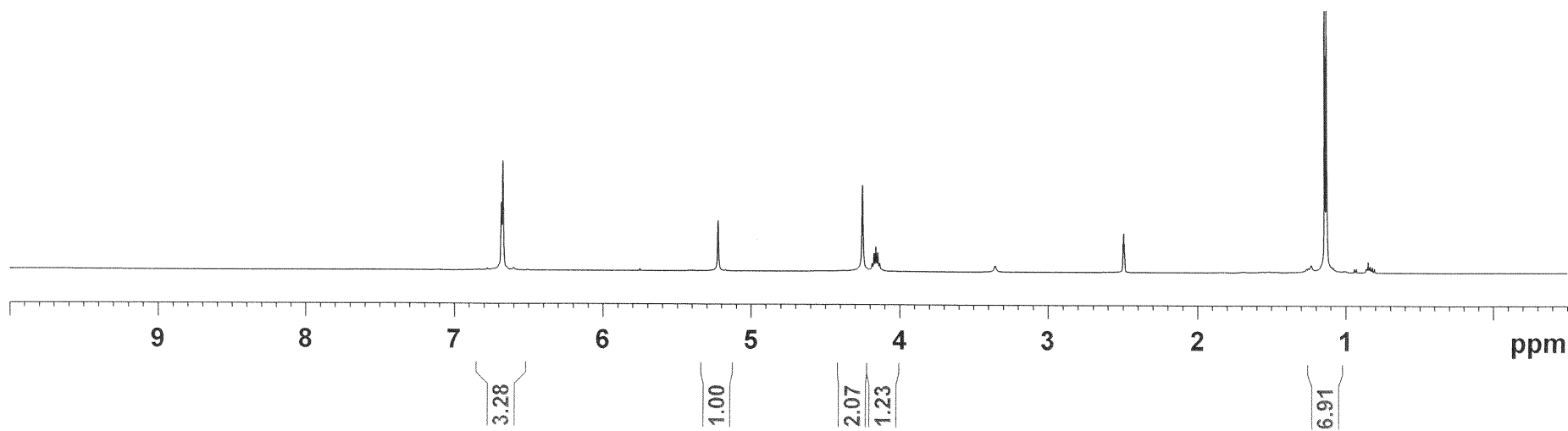
6.683  
6.681  
6.672

5.223

4.250  
4.173  
4.160  
4.146

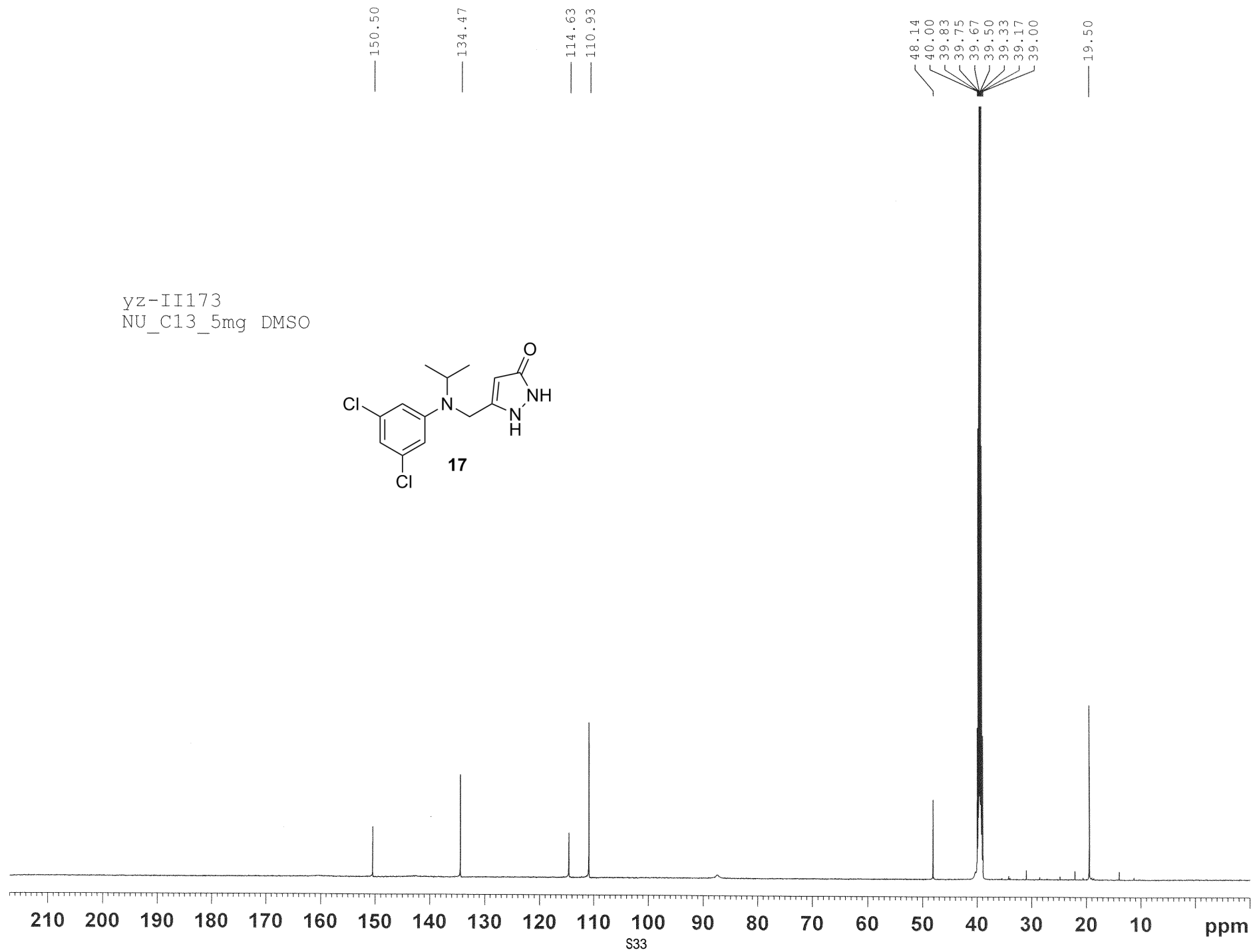
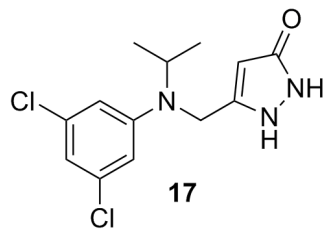
2.498  
2.494  
2.491

1.139  
1.125



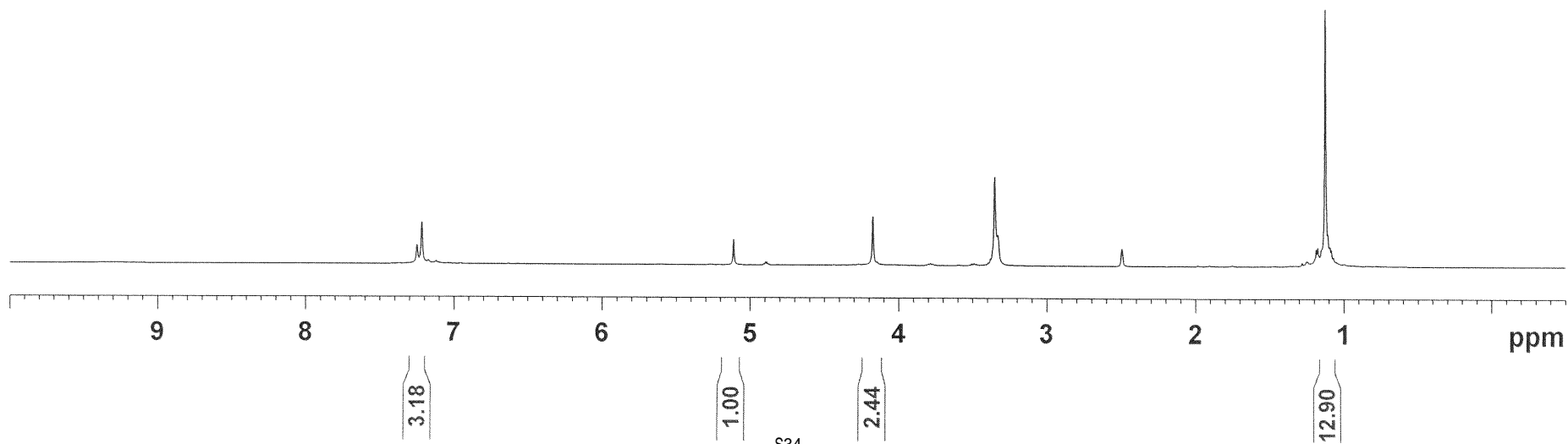
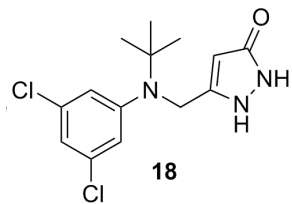


yz-III173  
NU\_C13\_5mg DMSO

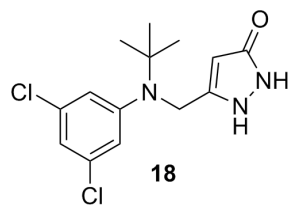


7.248  
7.216  
5.111  
4.174  
3.351  
3.330  
2.496  
1.124

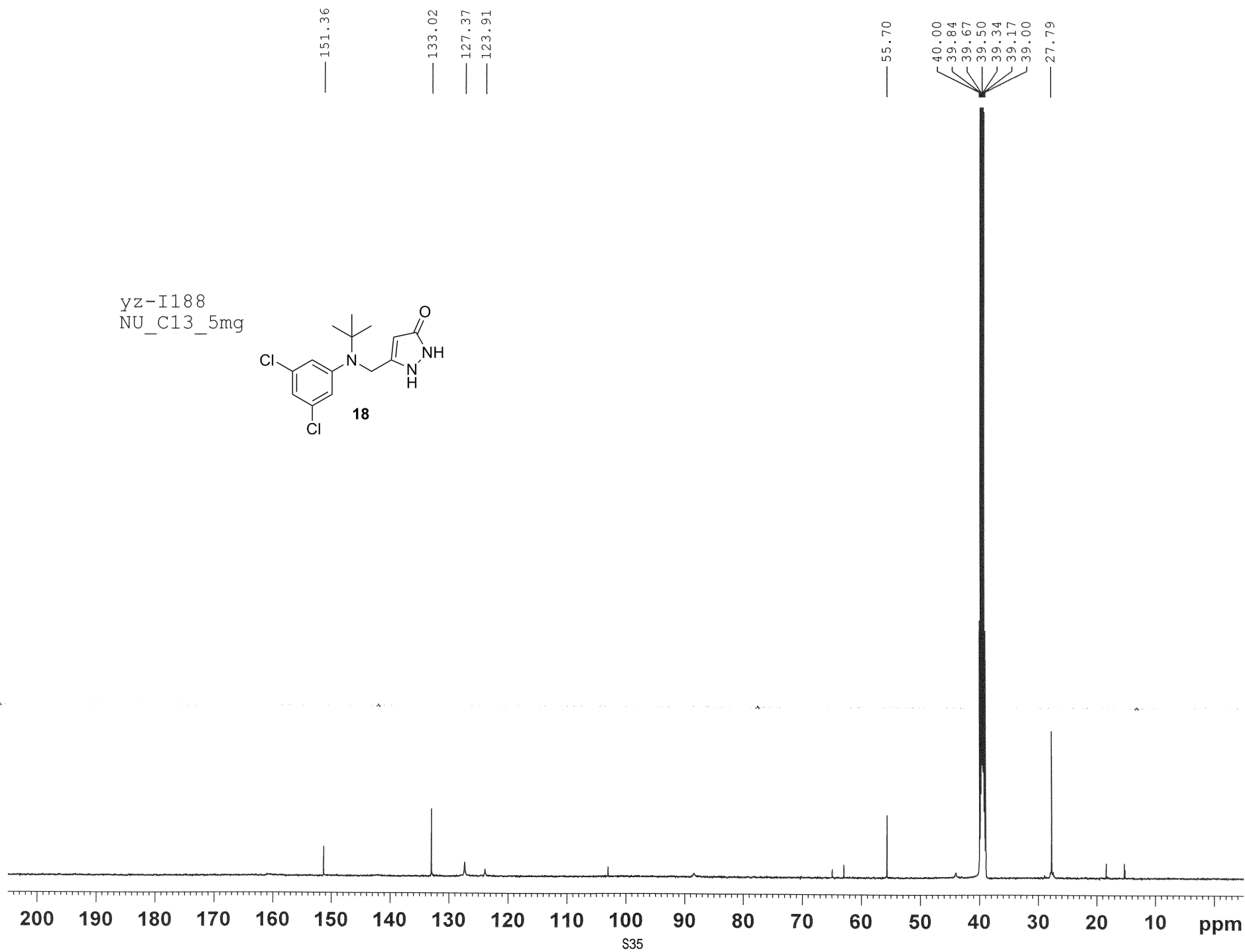
yz-I188  
PROTON DMSO



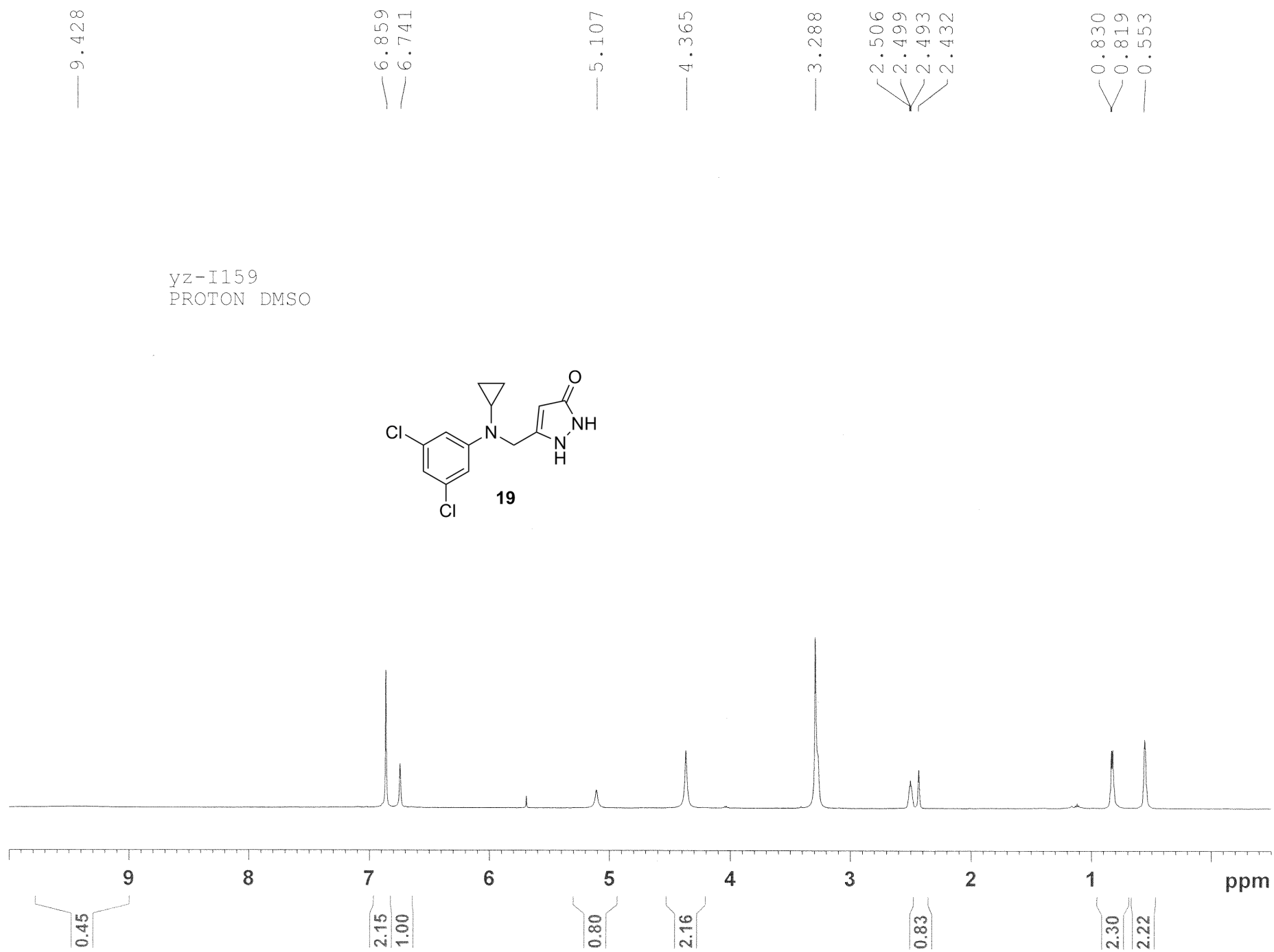
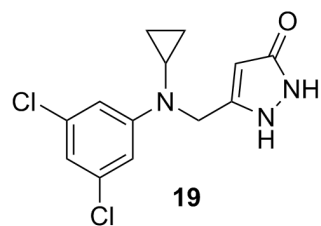
yz-I188  
NU\_C13\_5mg



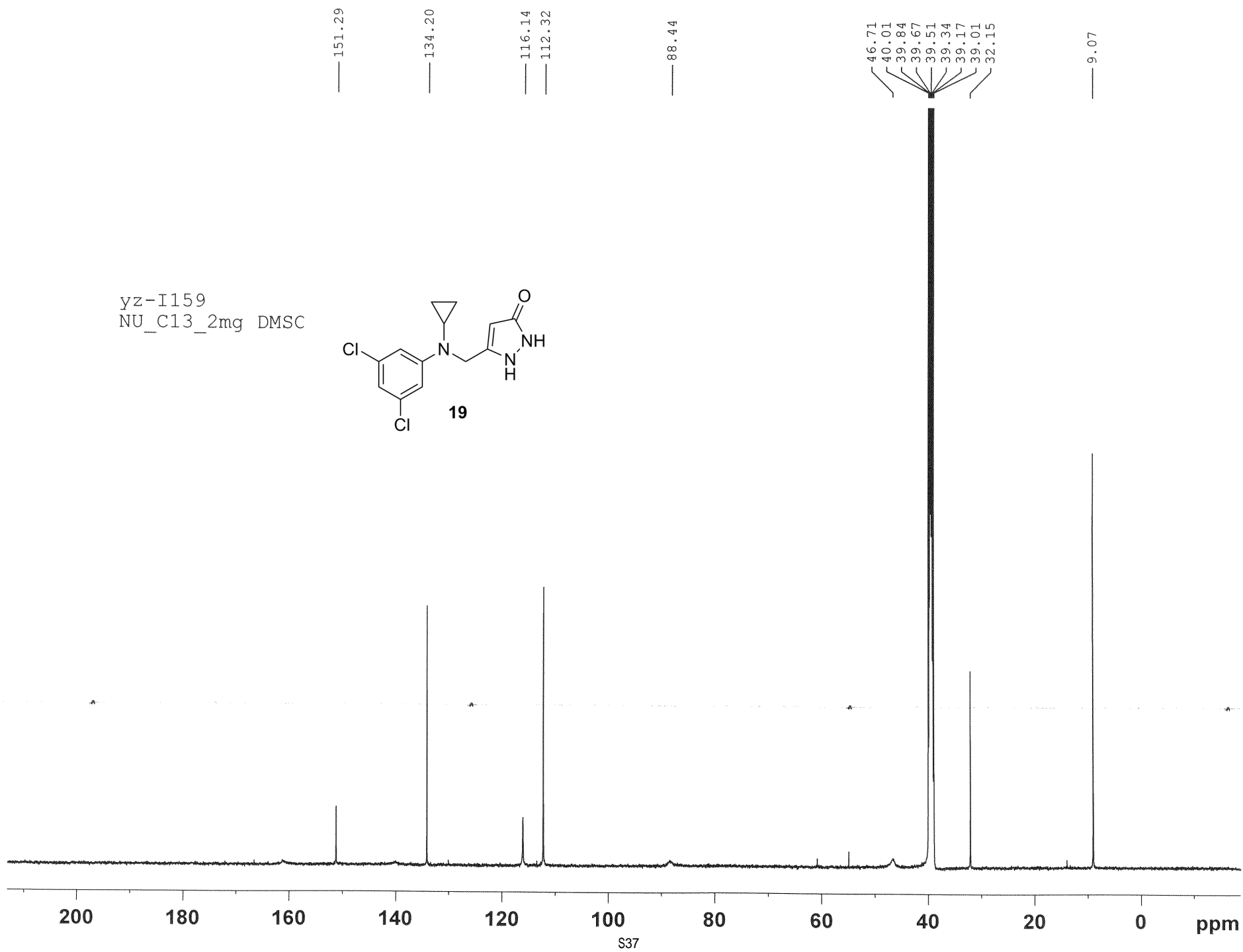
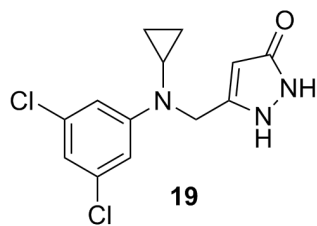
18



yz-I159  
PROTON DMSO



yz-I159  
NU\_C13\_2mg DMSC



7.352  
7.338  
7.322  
7.264  
7.250  
7.235  
7.222  
7.207  
6.703  
6.681

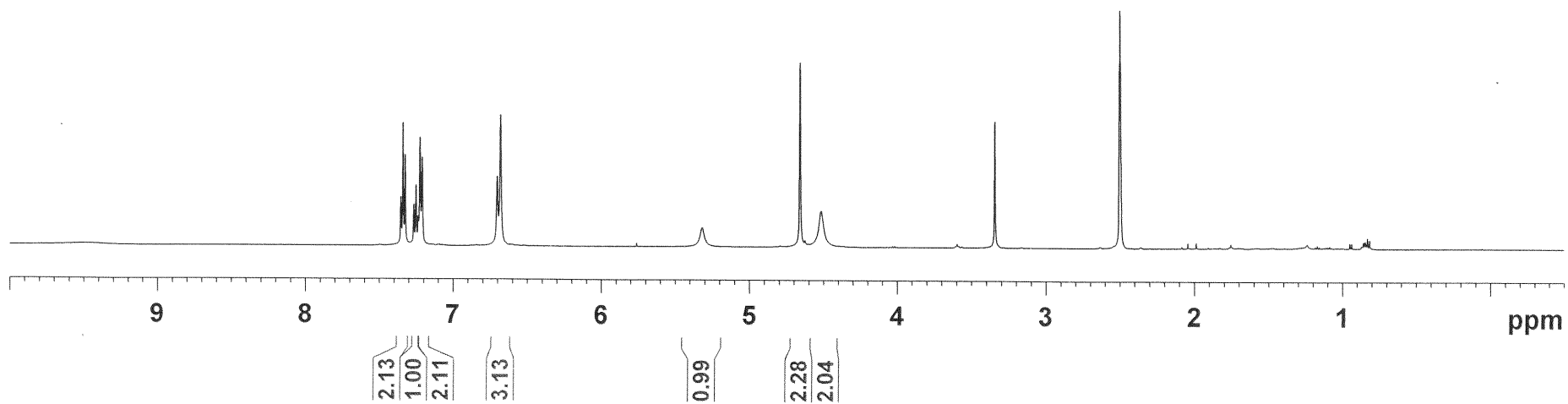
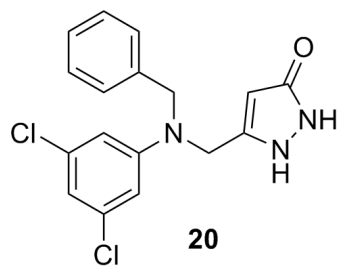
— 5.318

— 4.659  
— 4.517

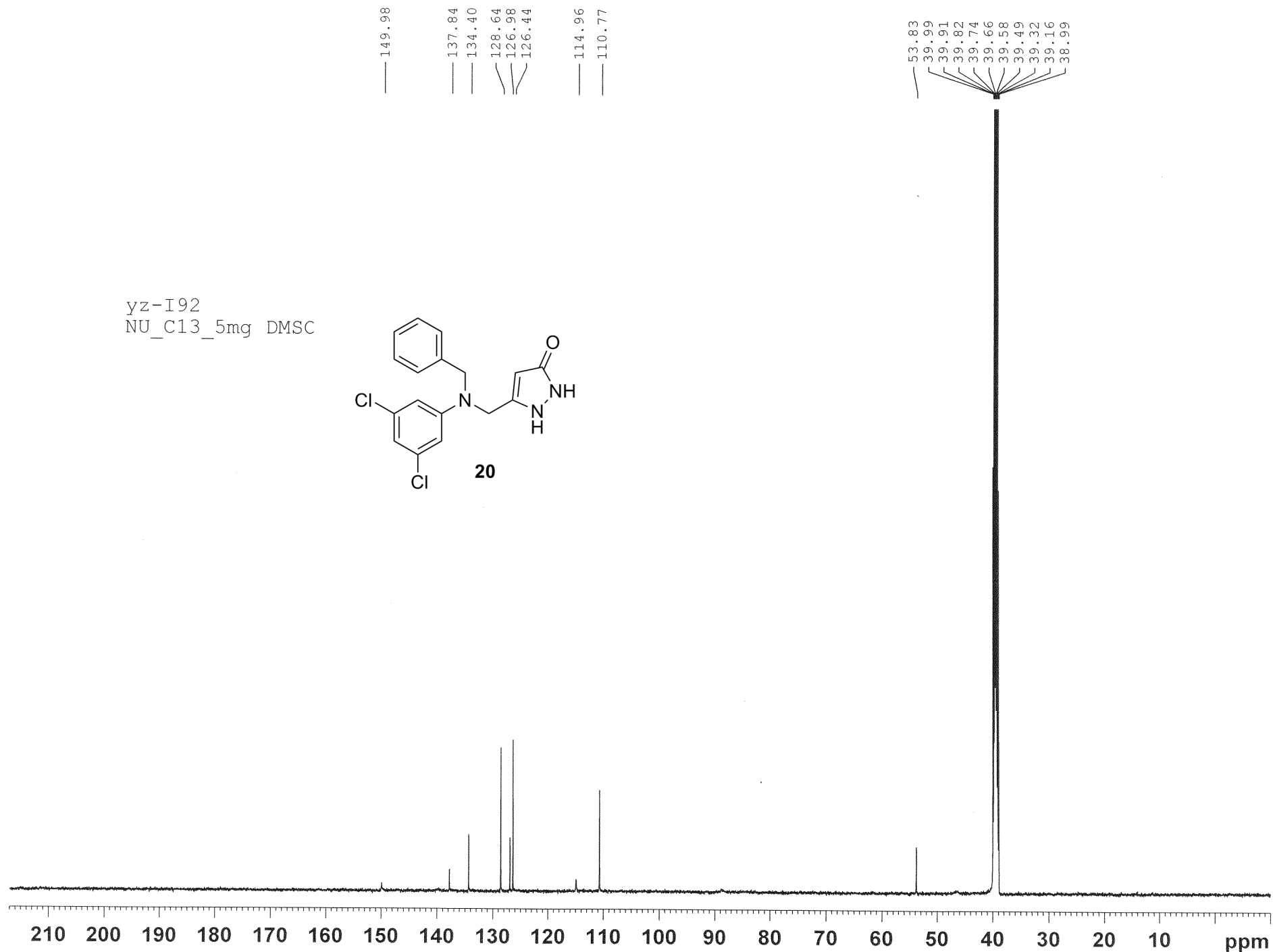
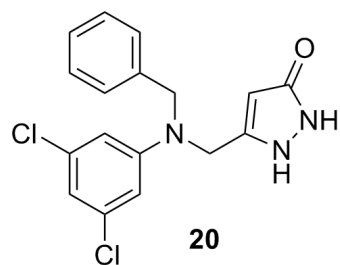
— 3.343

— 2.502  
— 2.499  
— 2.495

yz-I92  
PROTON DMSO



yz-I92  
NU\_C13\_5mg DMSC



— 11.589

— 9.648

7.444  
7.429  
7.415  
7.276  
7.261  
7.245  
7.230  
7.216  
6.879  
6.715

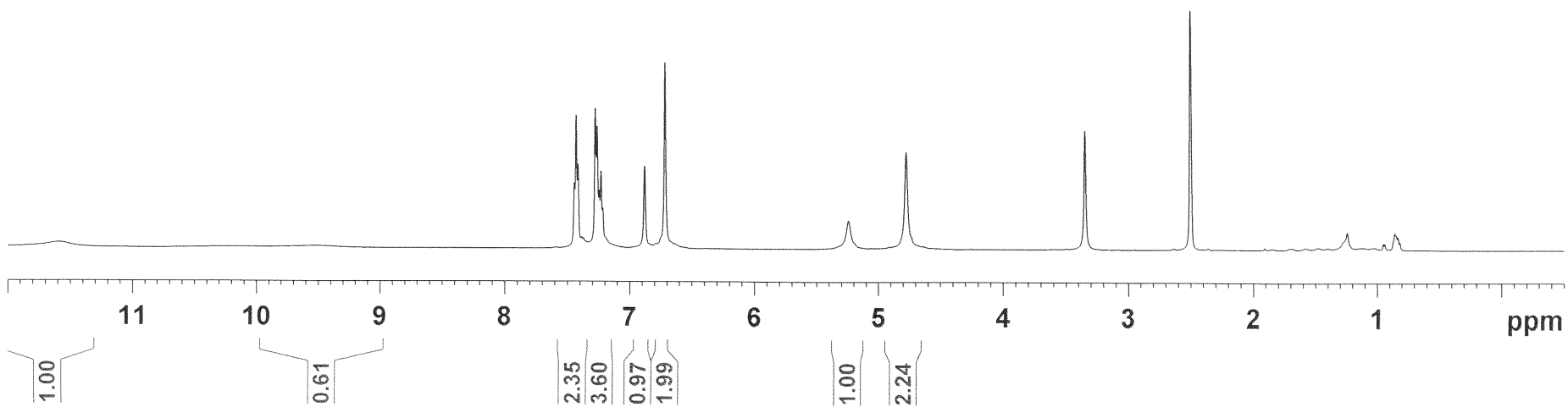
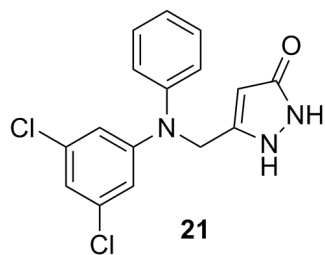
— 5.242

— 4.774

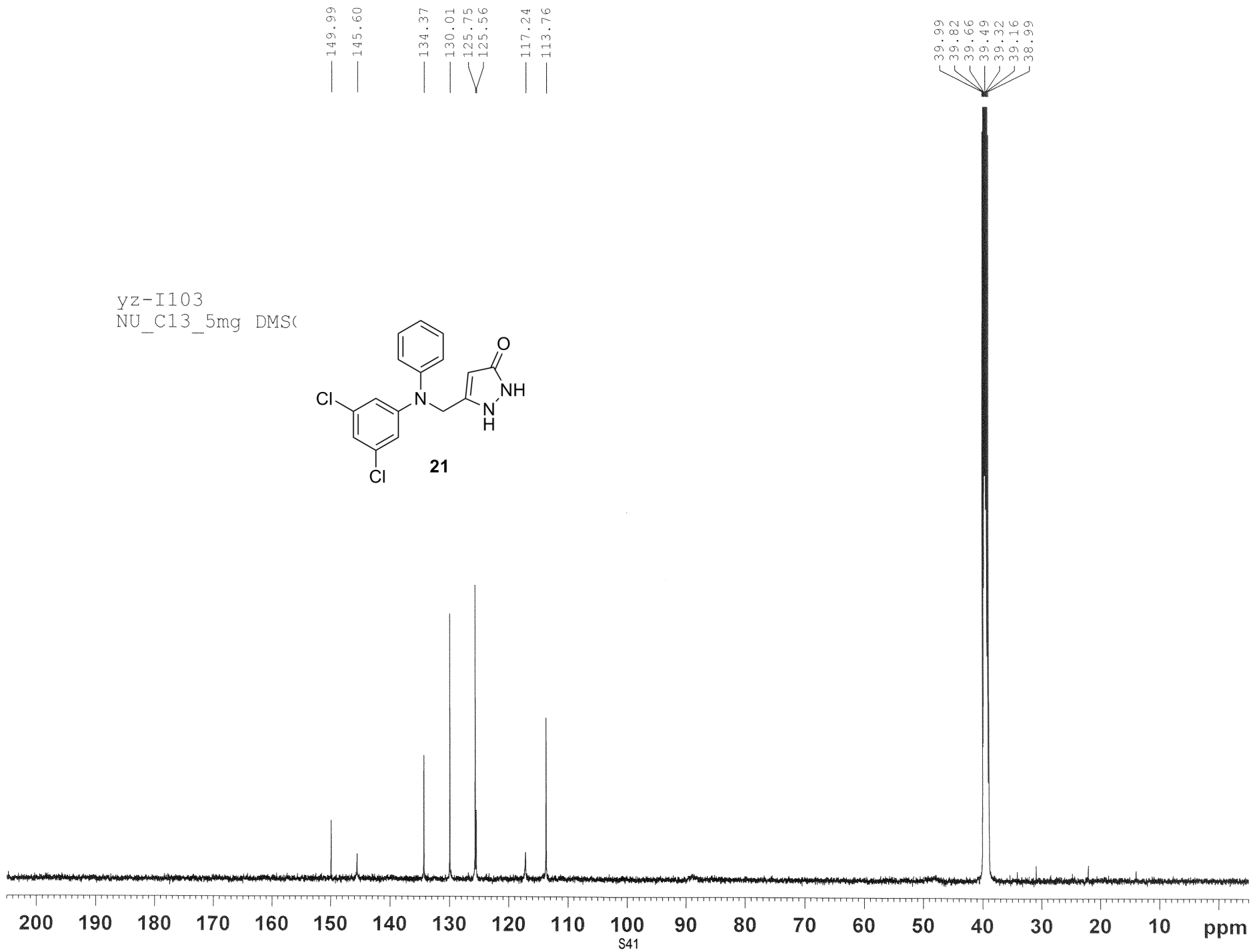
— 3.347

— 2.500

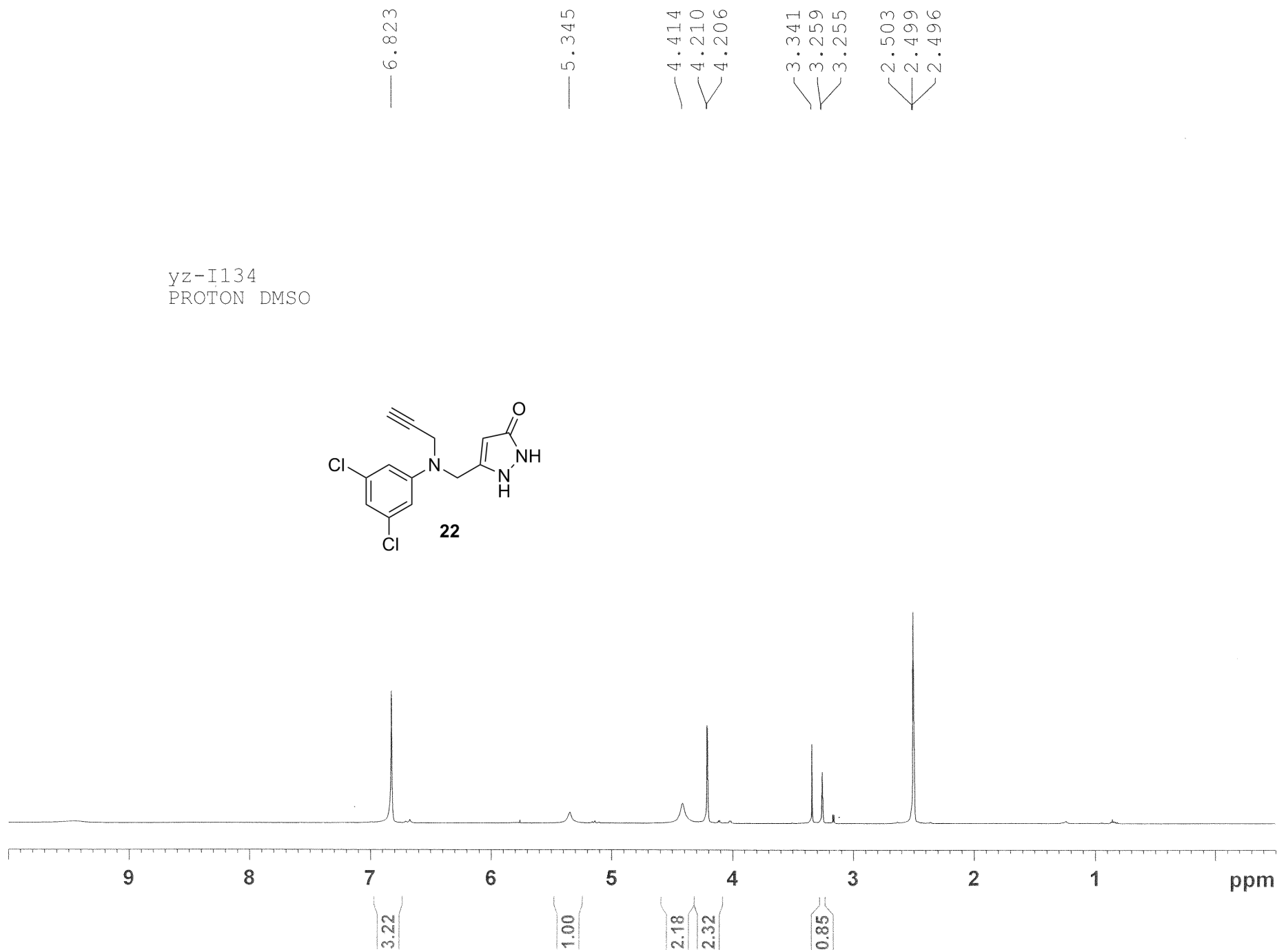
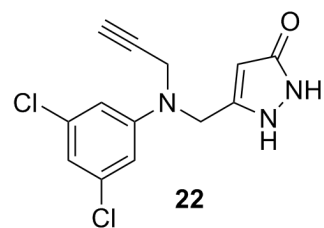
yz-I103  
PROTON DMSO



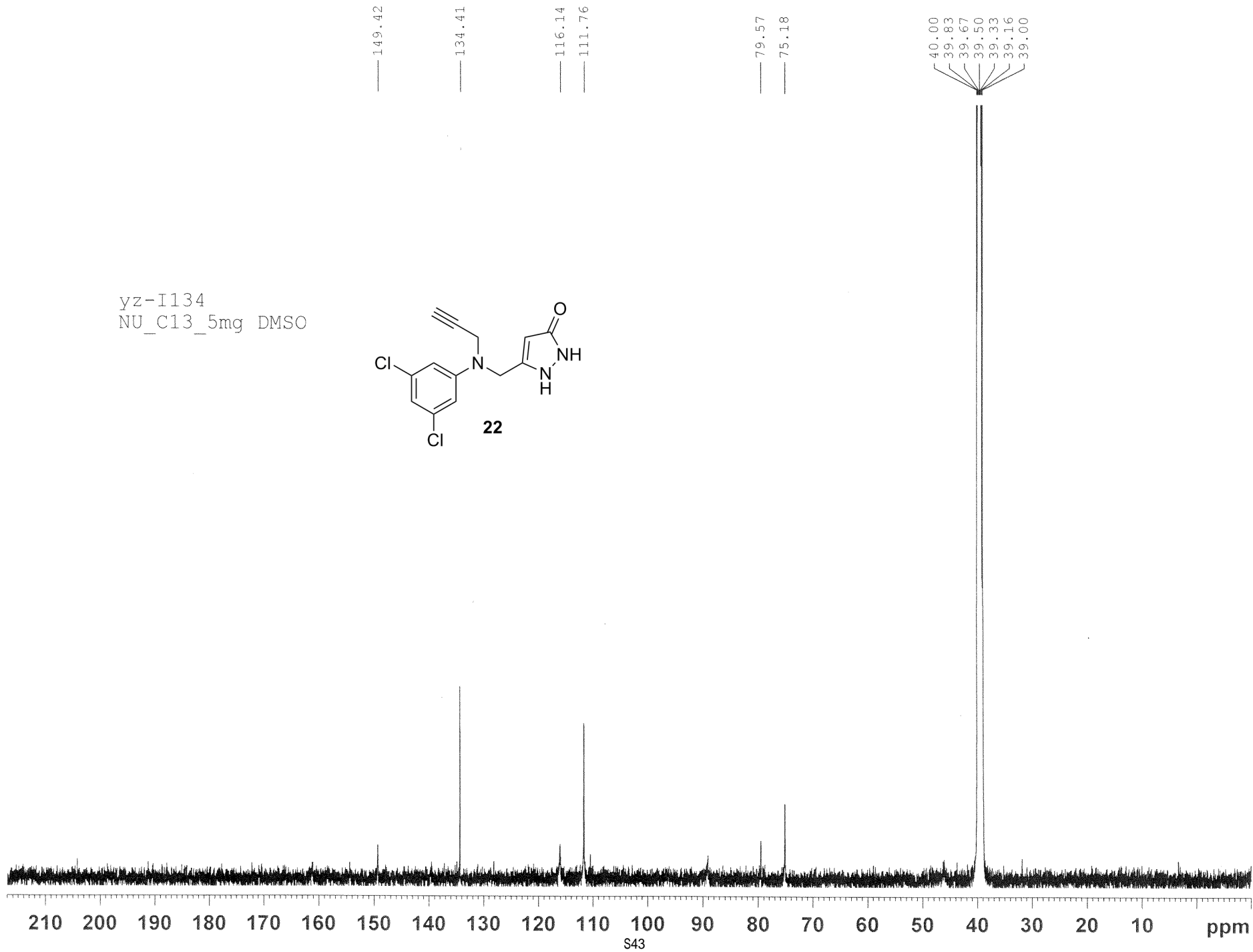
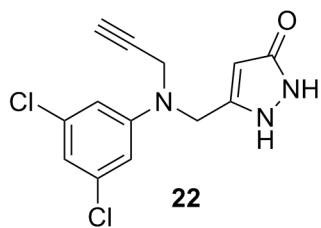




yz-I134  
PROTON DMSO



yz-I134  
NU\_C13\_5mg DMSO

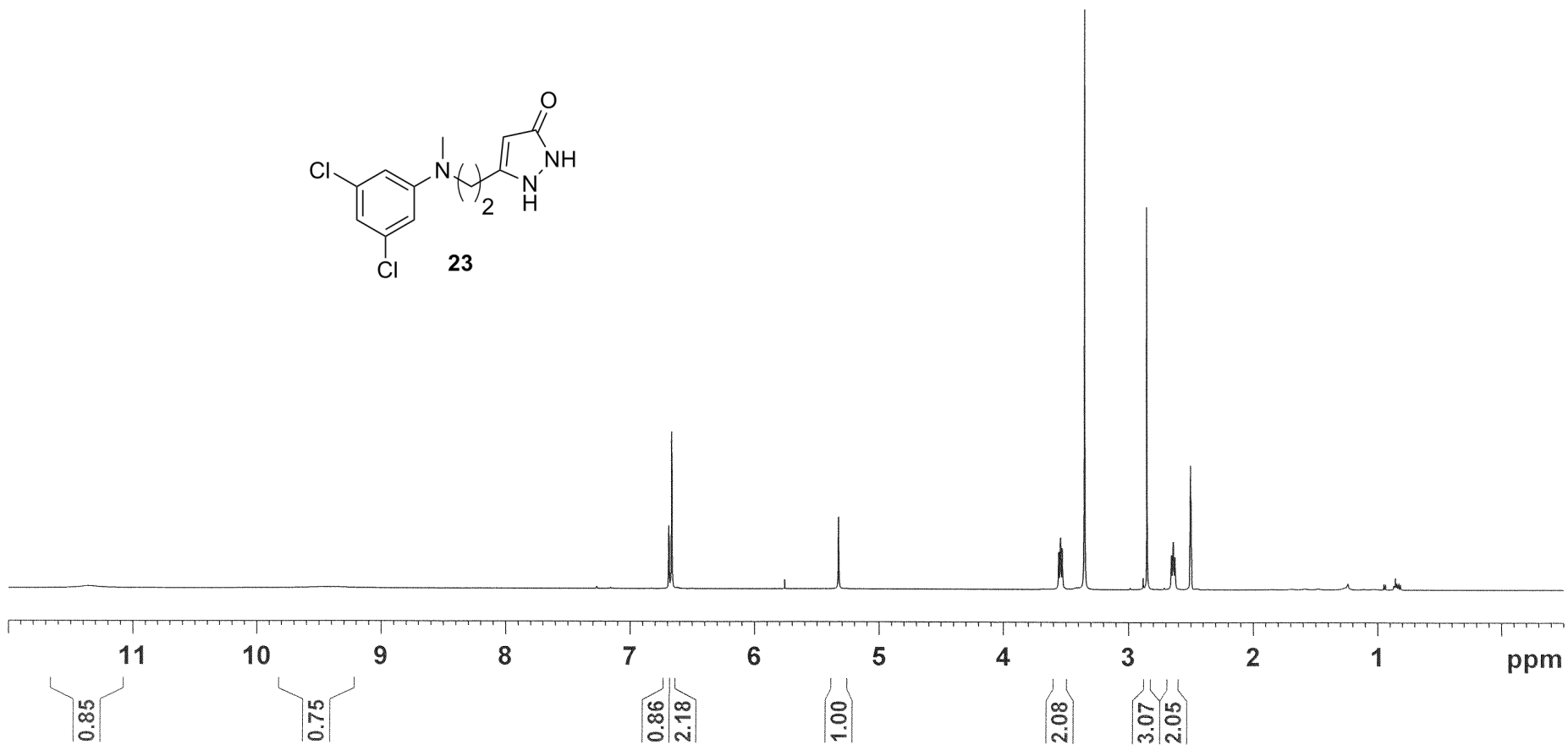
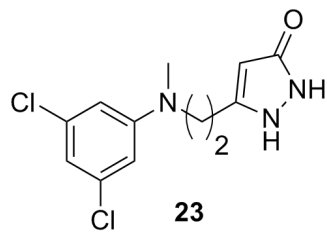


— 11.351

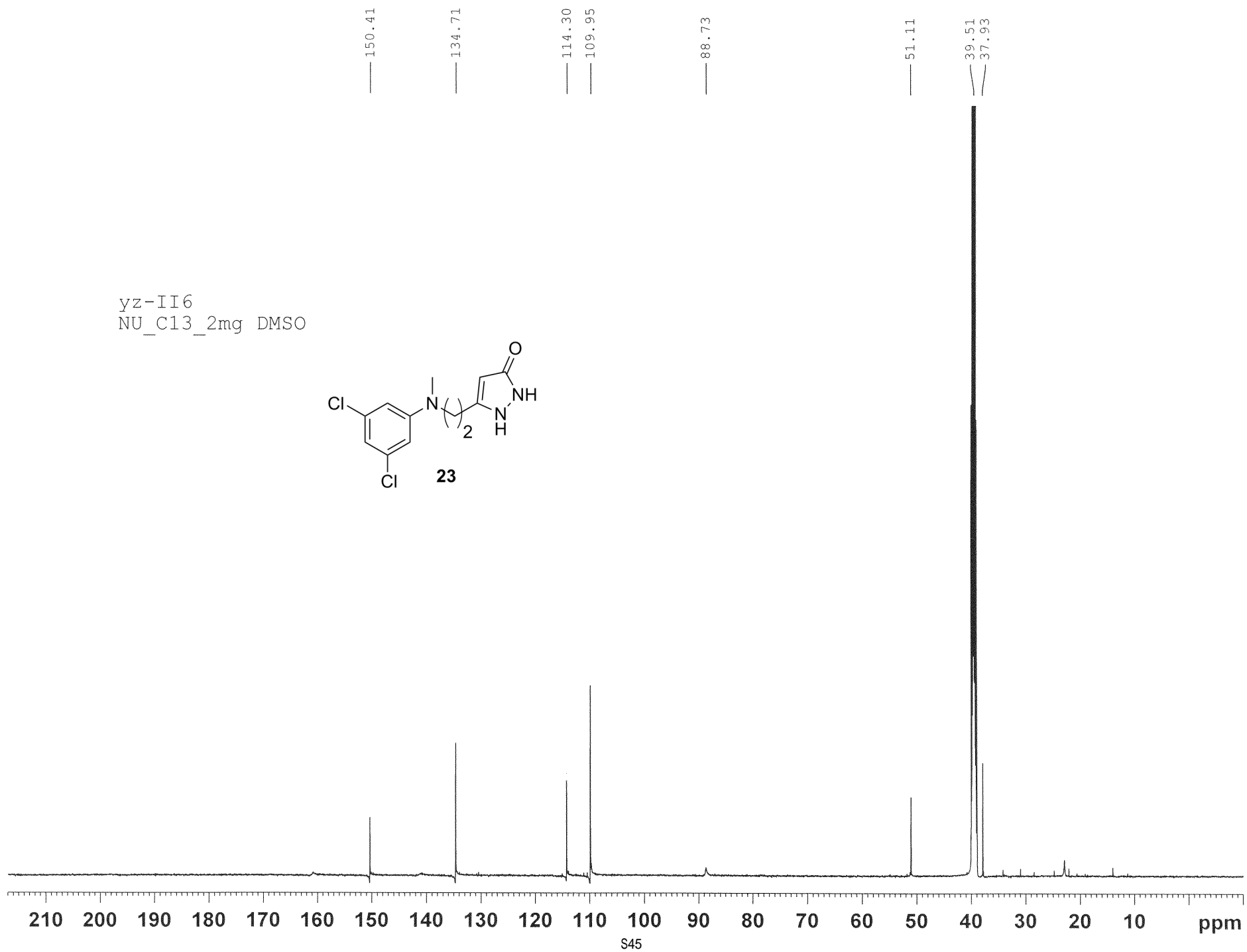
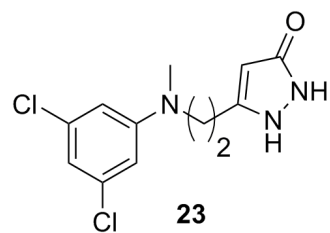
— 9.405

 6.688  
 6.685  
 6.665  
 6.661

— 5.327

 3.556  
 3.541  
 3.526  
 3.346  
 2.849  
 2.654  
 2.638  
 2.624  
 2.506  
 2.502  
 2.499  
 2.495  
 2.492
yz-II6  
PROTON DMSO

yz-II6  
NU\_C13\_2mg DMSO



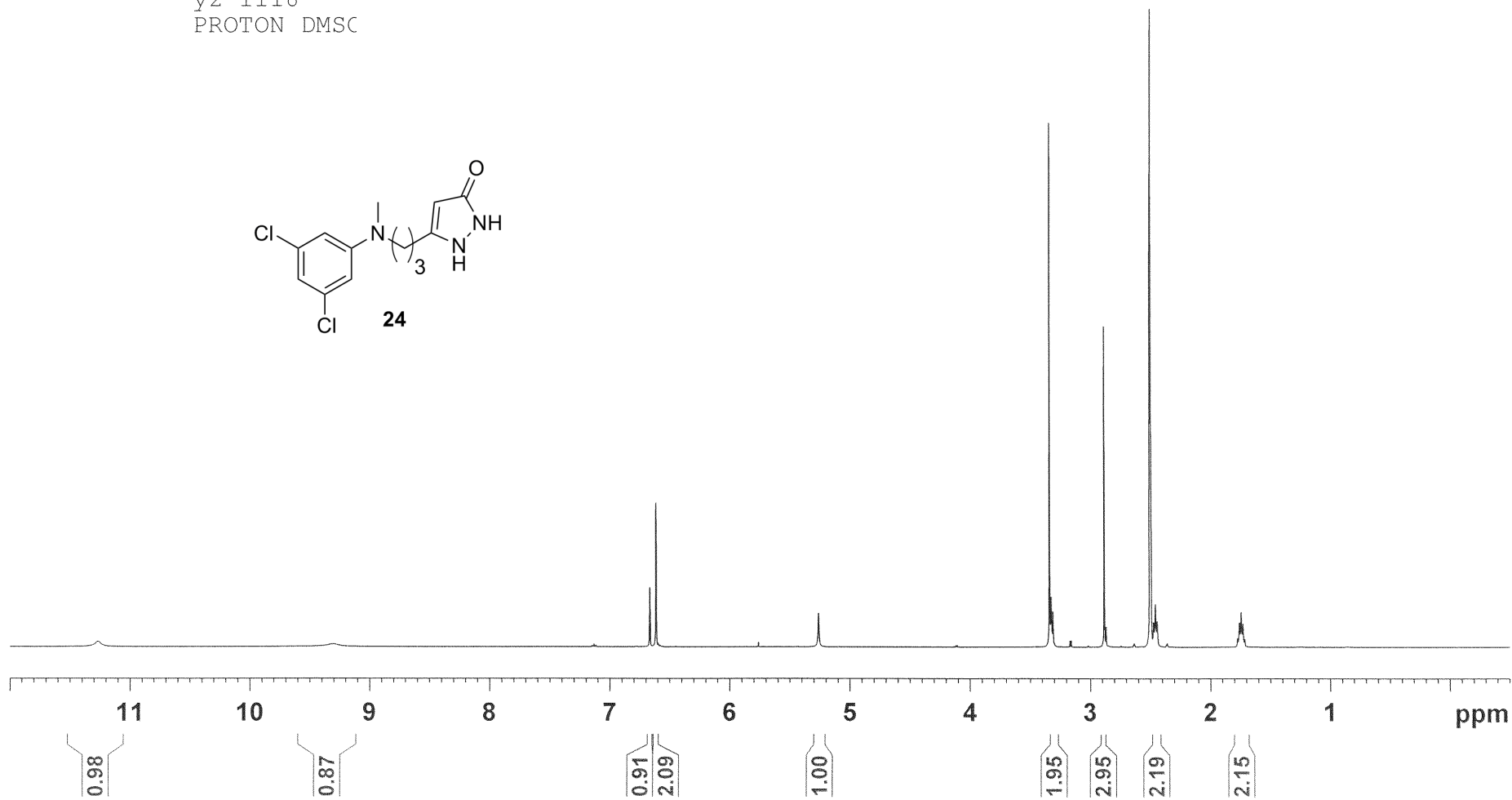
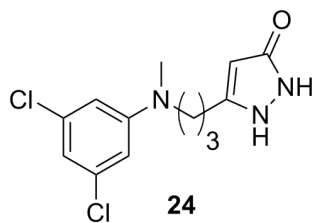
— 11.266

— 9.301

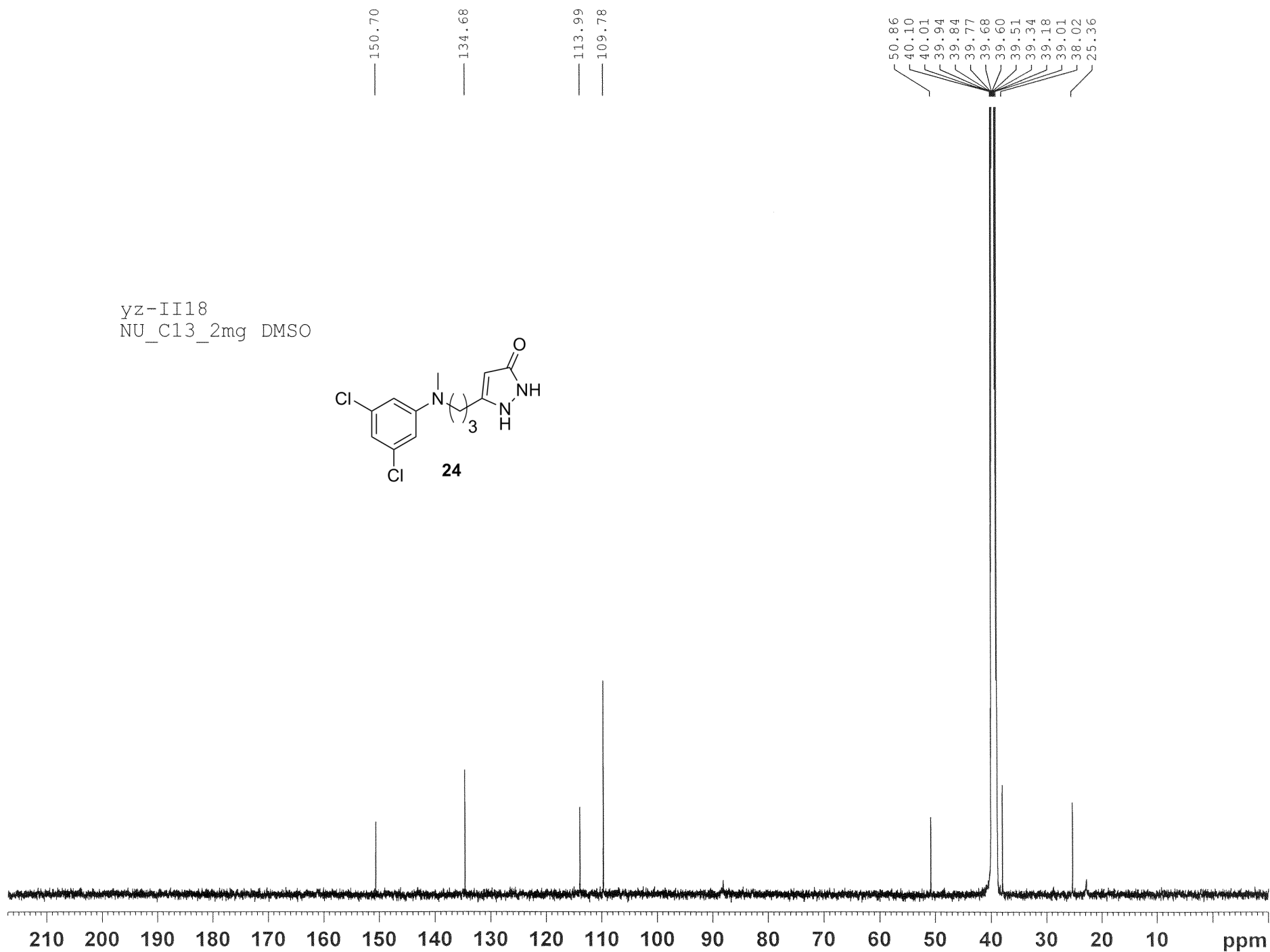
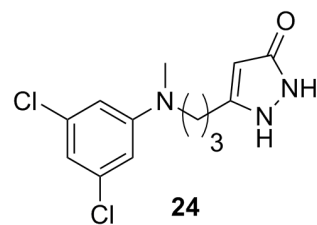
 6.665  
 6.662  
 6.614  
 6.611

— 5.260

 3.338  
 3.325  
 3.310  
 2.883  
 2.867  
 2.506  
 2.503  
 2.499  
 2.496  
 2.493  
 2.472  
 2.457  
 2.442  
 1.758  
 1.744  
 1.729

 yz-III18  
 PROTON DMSC


yz-III18  
NU\_C13\_2mg DMSO

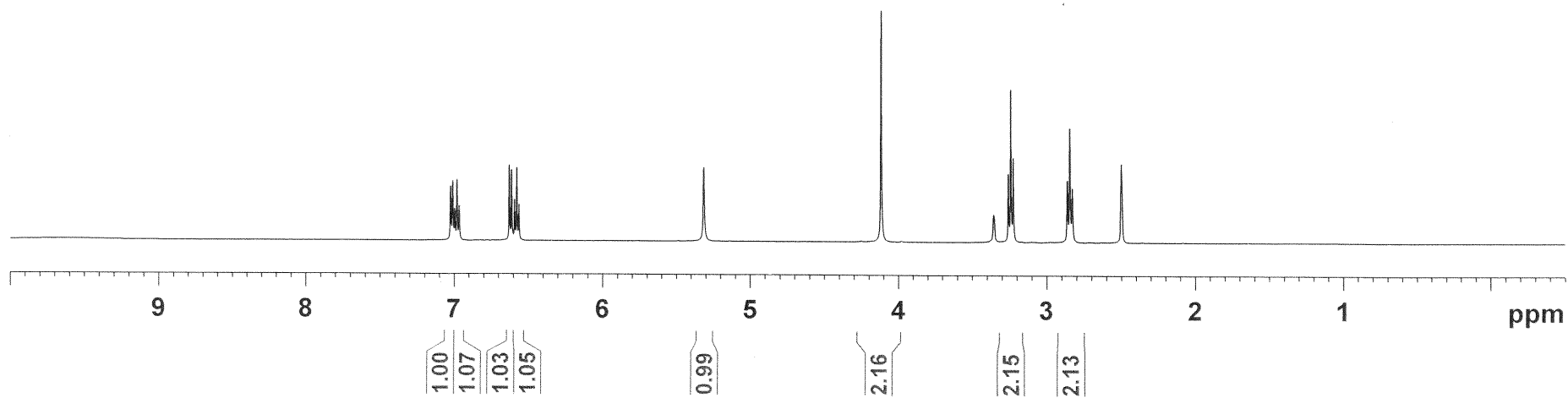
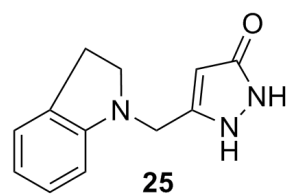


7.024  
7.010  
6.996  
6.981  
6.965  
6.627  
6.612  
6.591  
6.576  
6.562

— 5.314

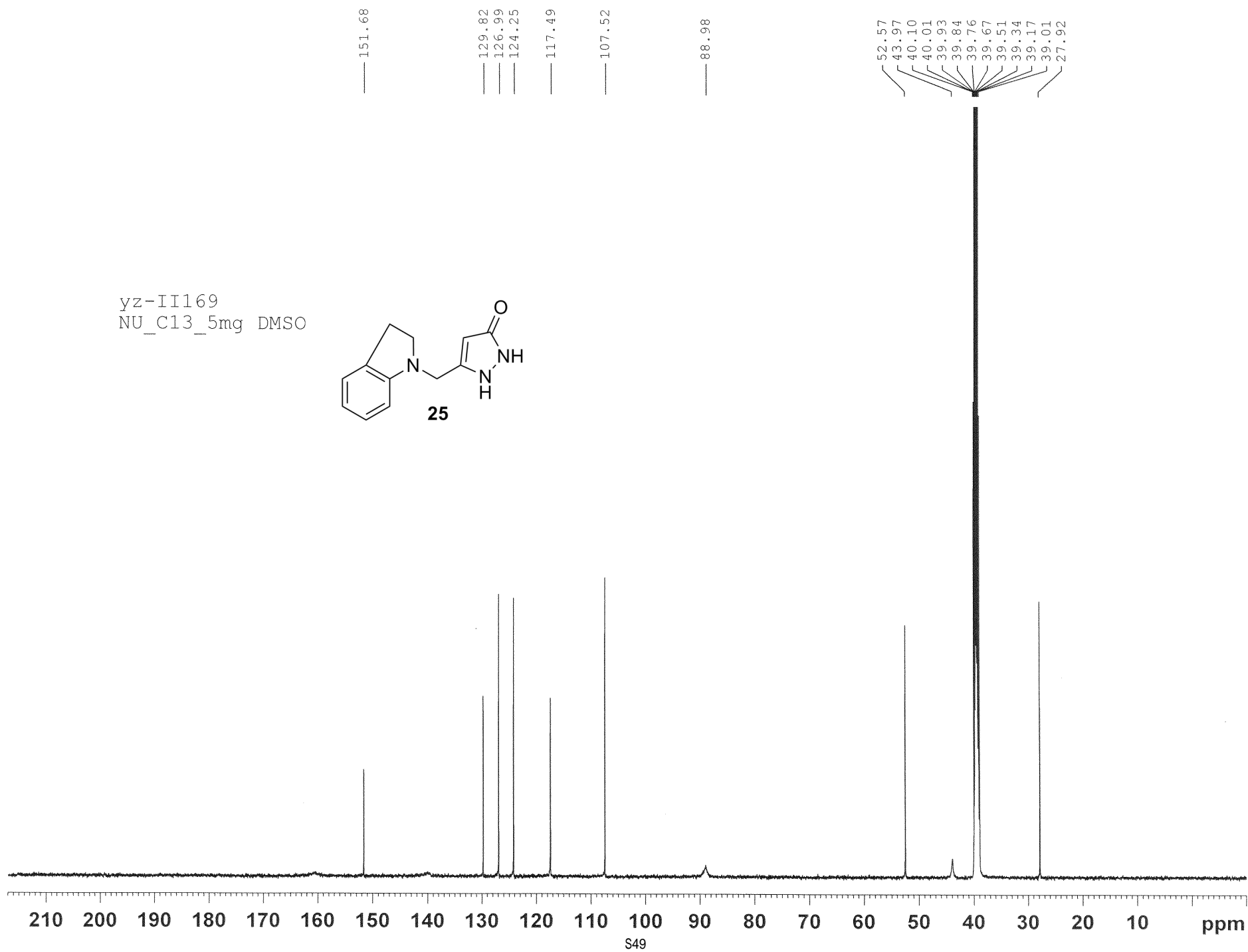
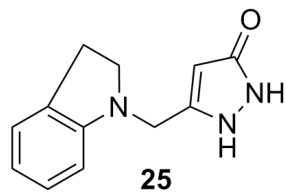
4.118  
3.356  
3.257  
3.241  
3.224  
2.861  
2.845  
2.828  
2.502  
2.499  
2.496

yz-III169  
PROTON DMSC

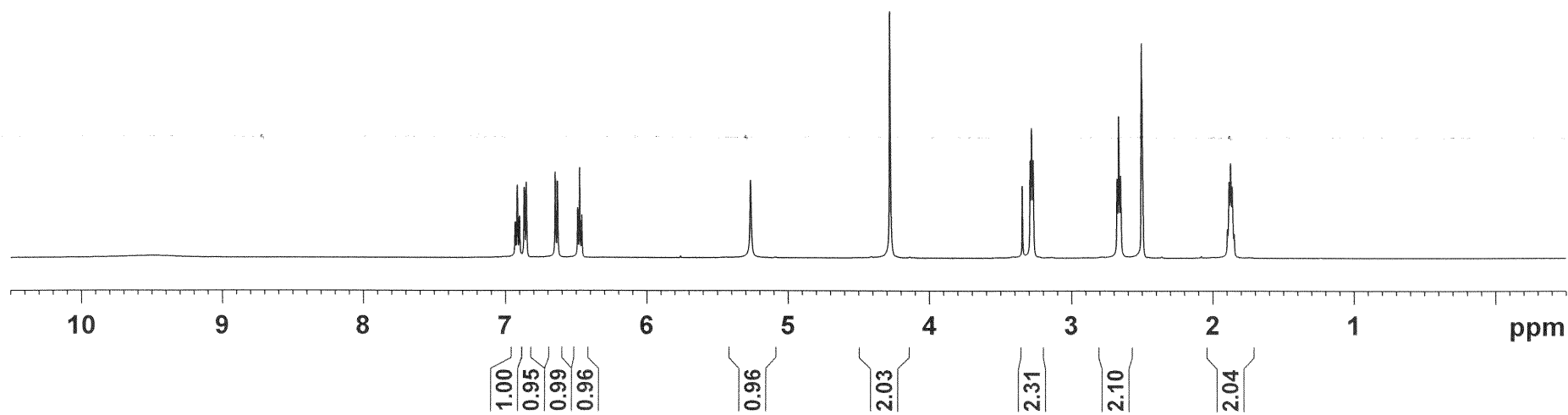
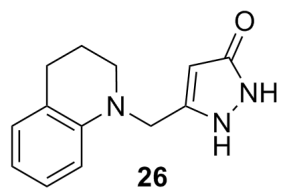




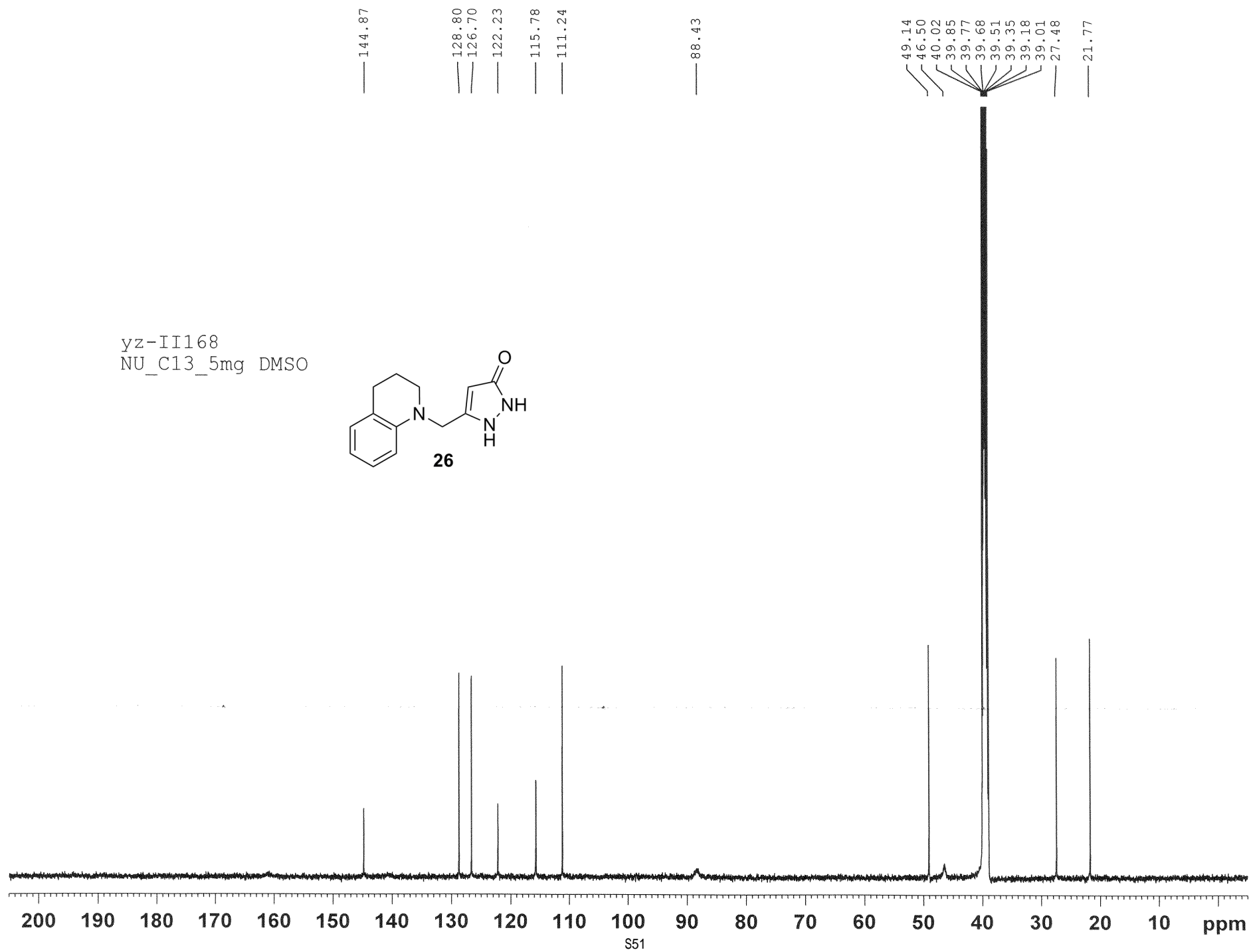
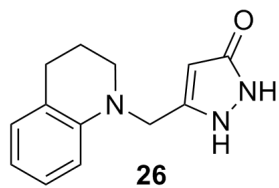
yz-III169  
NU\_C13\_5mg DMSO



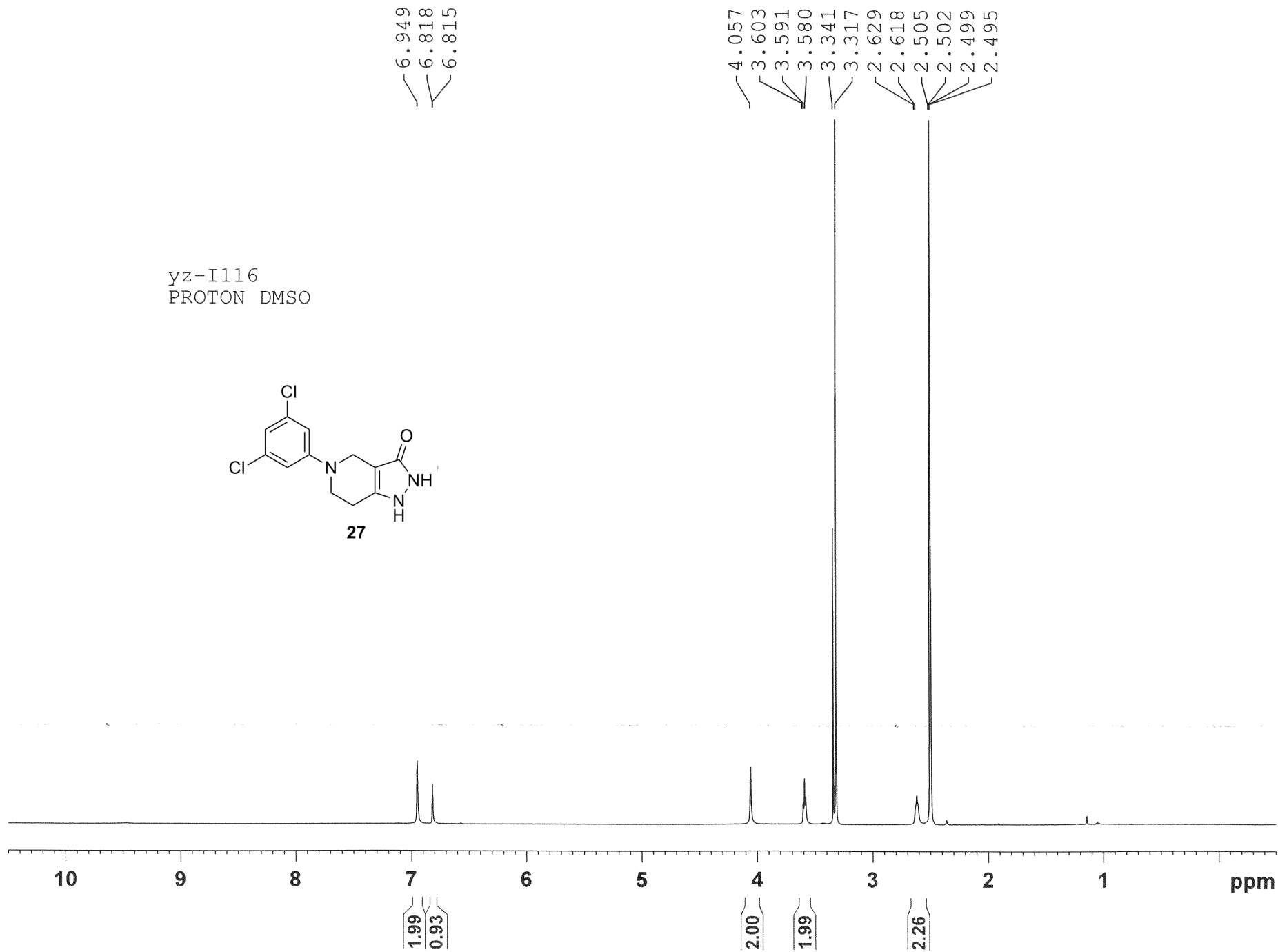
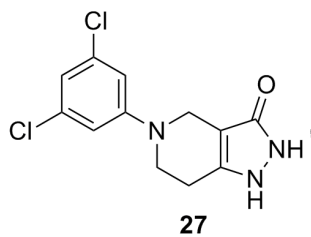
yz-III168  
PROTON DMSO



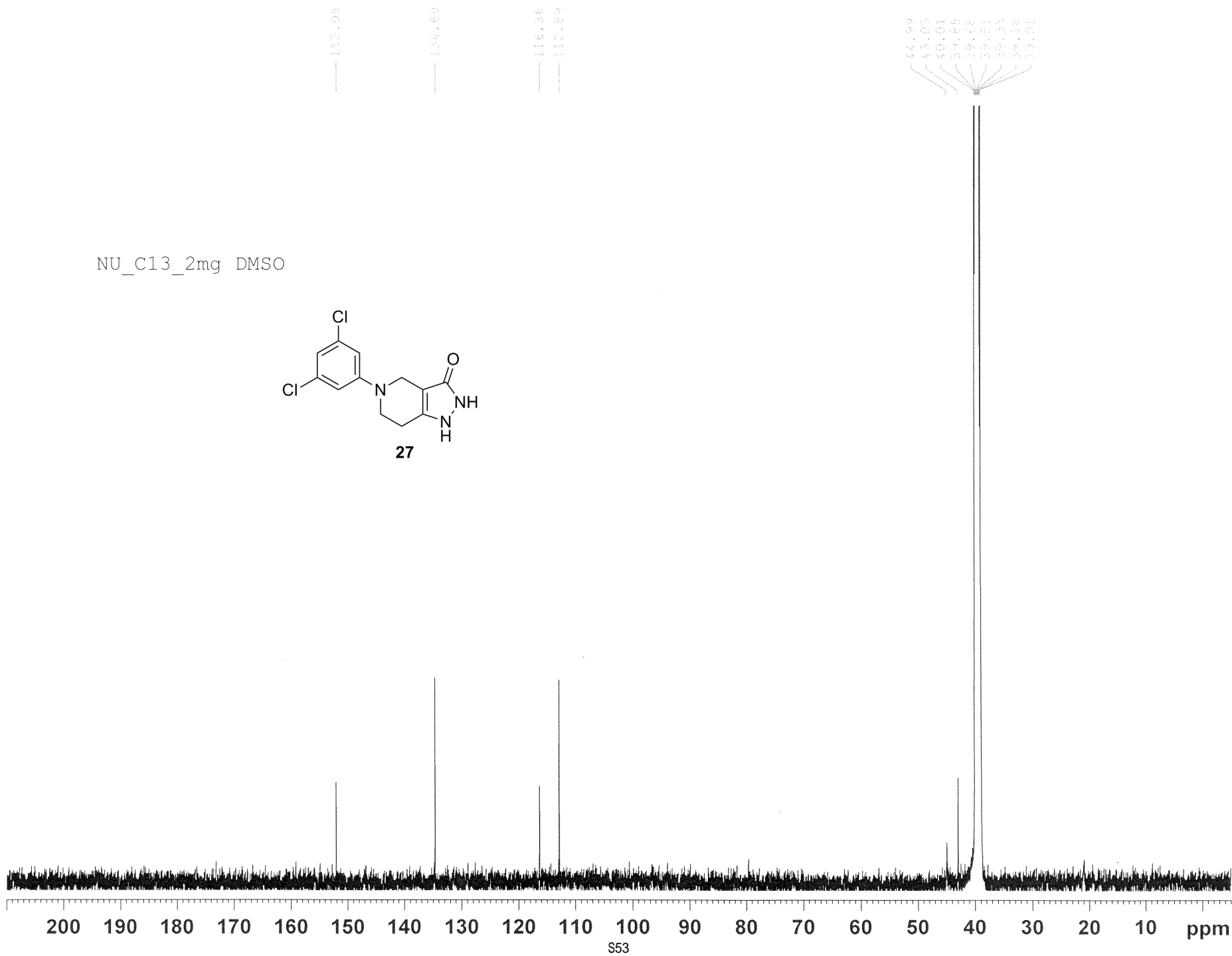
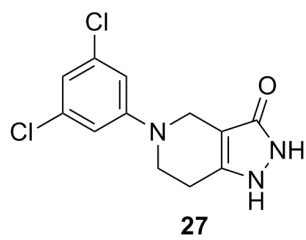
yz-III168  
NU\_C13\_5mg DMSO



yz-I116  
PROTON DMSO



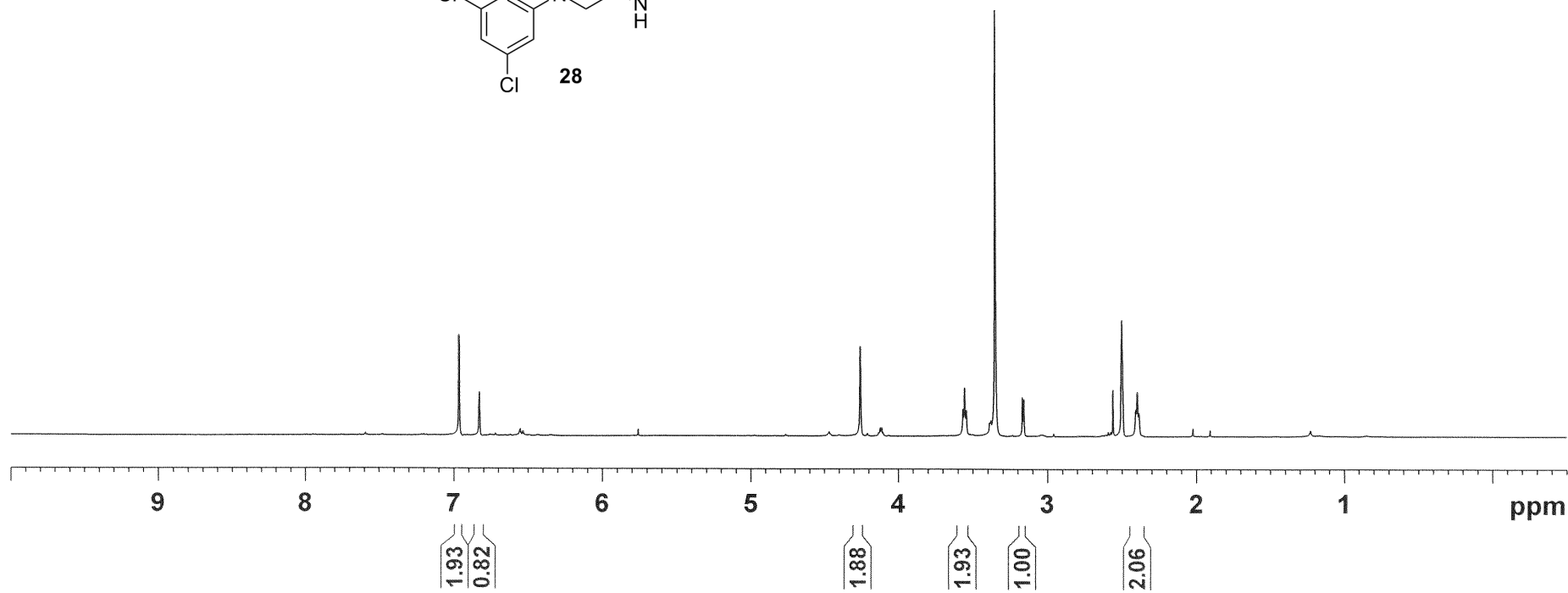
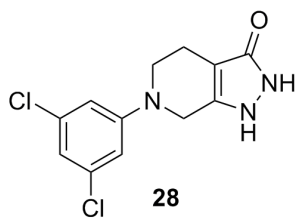
NU\_C13\_2mg DMSO



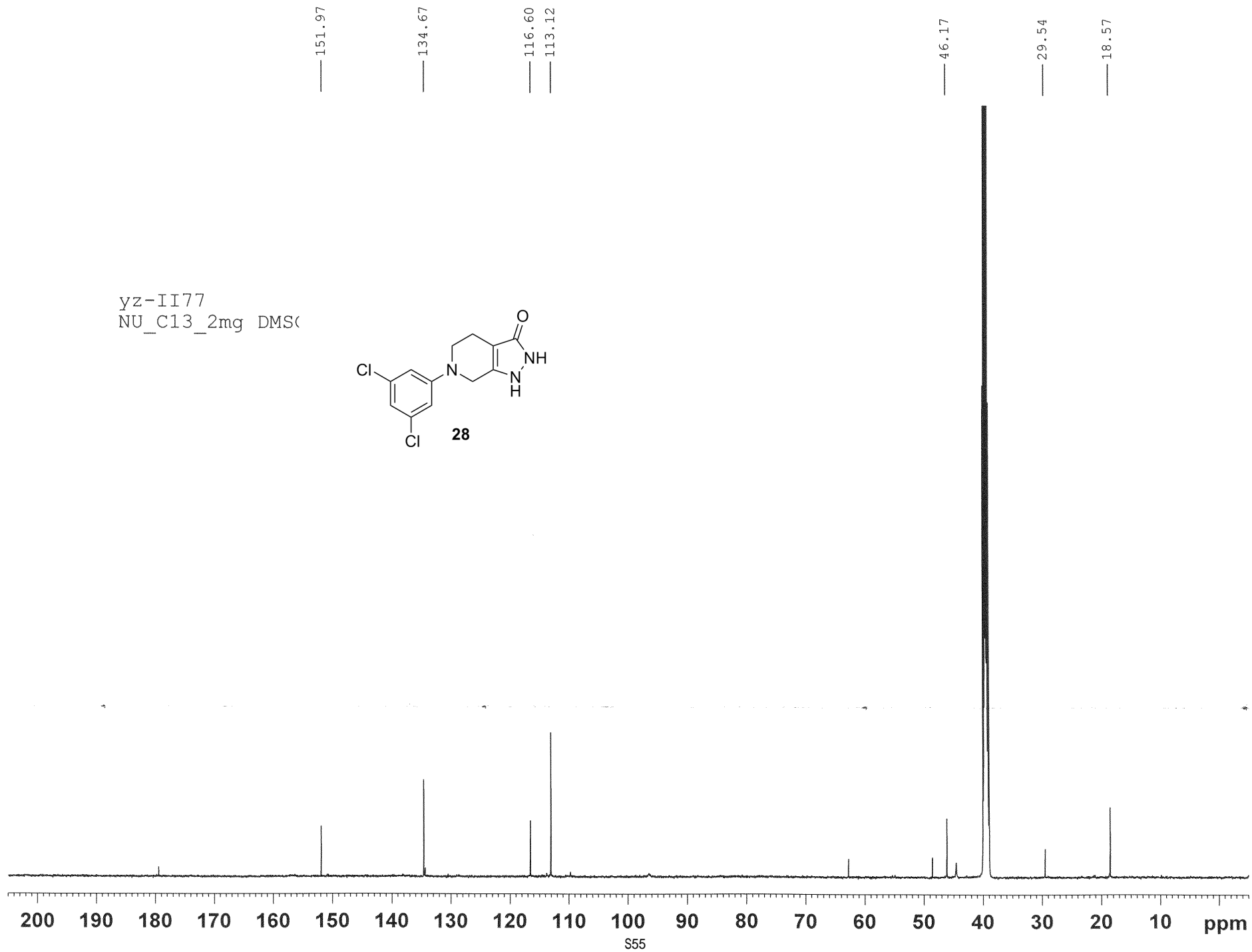
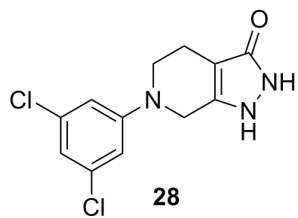
6.965  
6.962  
6.831  
6.828

4.255  
3.566  
3.555  
3.543  
3.349  
3.168  
3.158  
2.560  
2.502  
2.499  
2.495  
2.407  
2.397  
2.385

yz-II77  
PROTON DMSO



yz-II77  
NU\_C13\_2mg DMSO



— 10.988

7.295  
7.281  
7.266  
7.243  
7.229  
7.115  
7.101  
6.742  
6.739  
6.689

— 5.185  
— 5.006

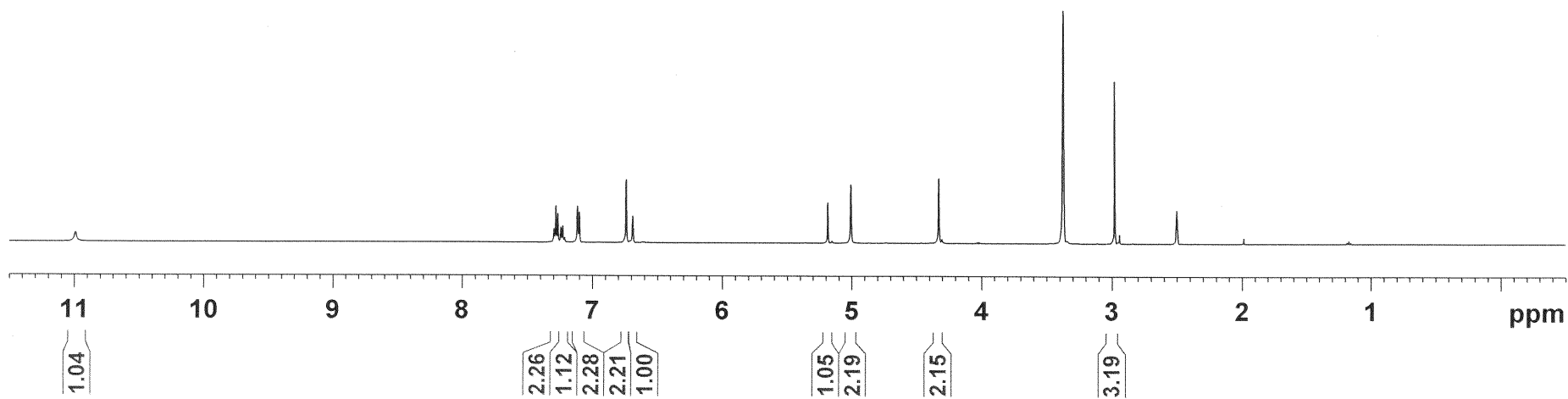
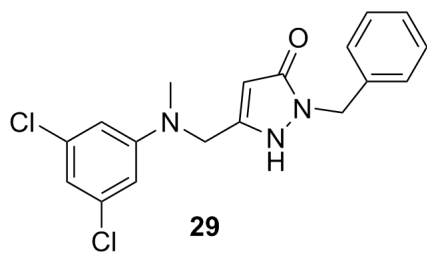
— 4.327

< 3.371  
< 3.369

— 2.978

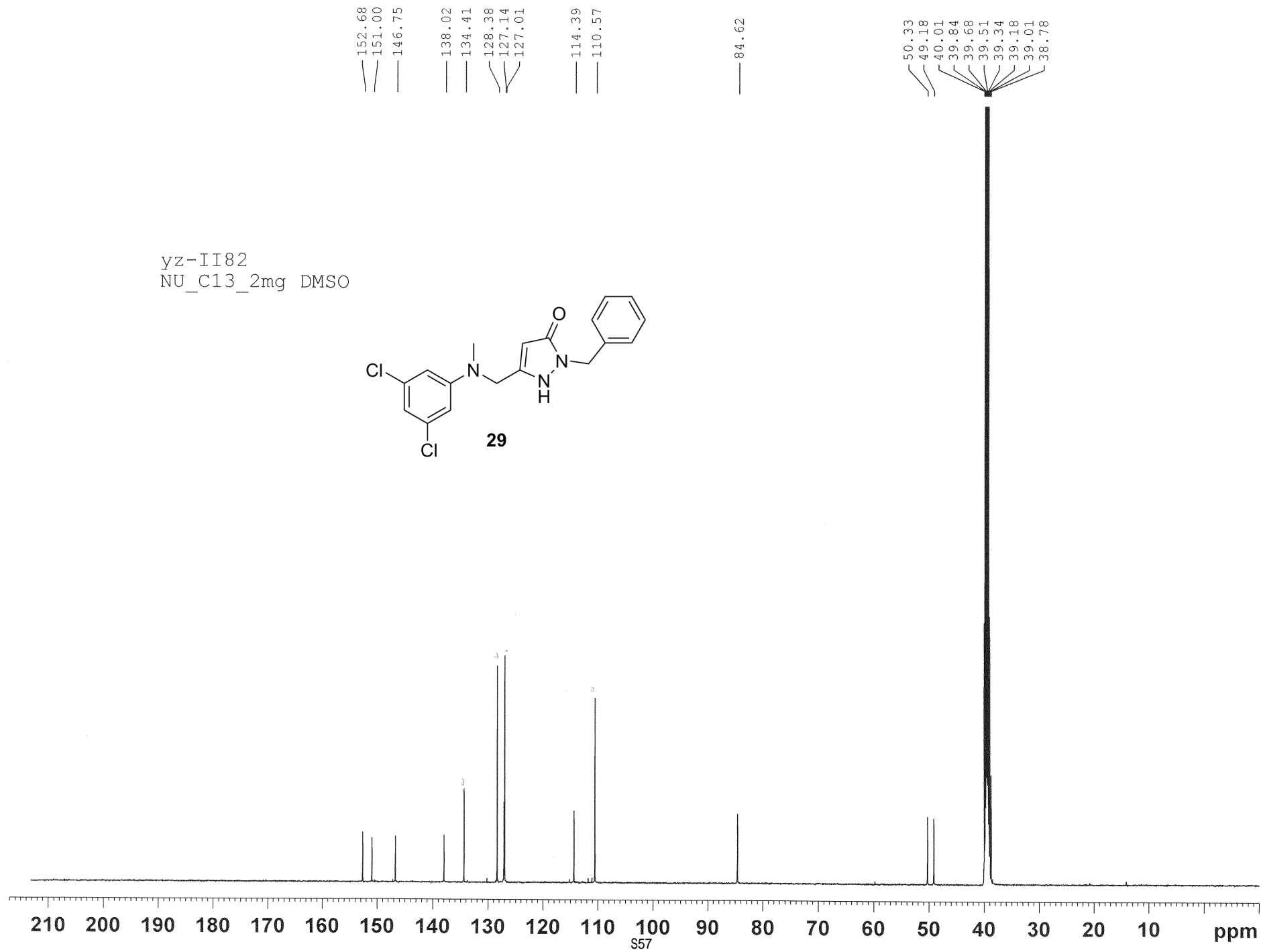
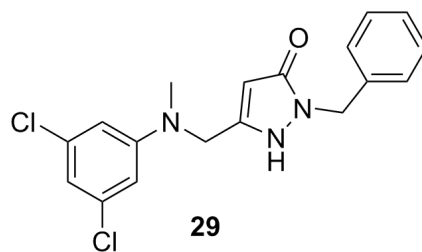
< 2.503  
< 2.500  
< 2.496

yz-II82  
PROTON DMSO





yz-II82  
NU\_C13\_2mg DMSO



— 10.811

6.721  
6.678

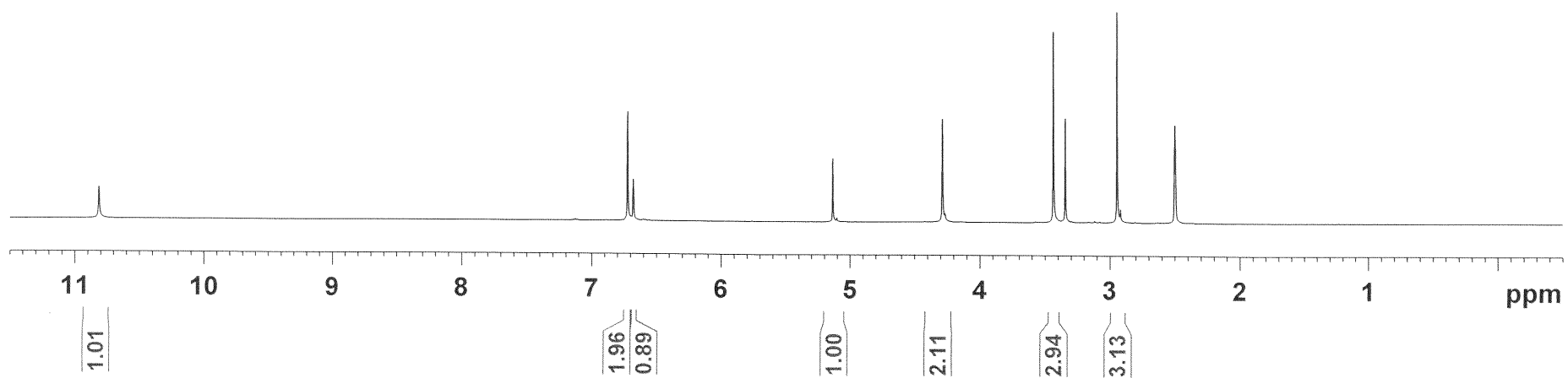
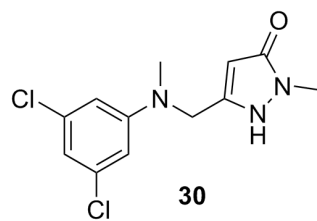
— 5.135

— 4.286

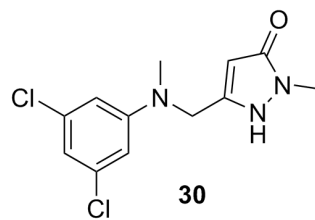
3.436  
3.343

— 2.944

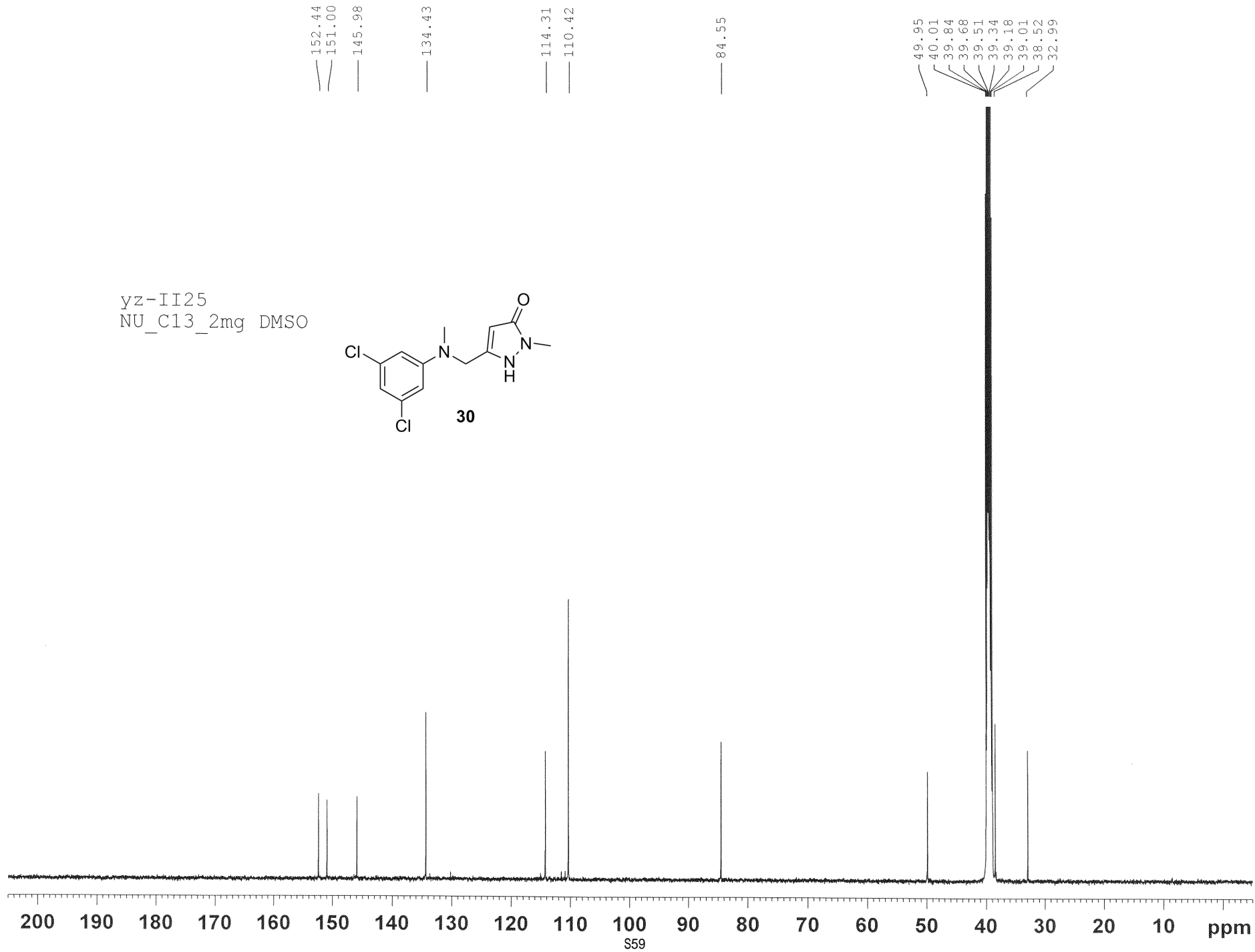
— 2.499

yz-II25  
PROTON DMSO

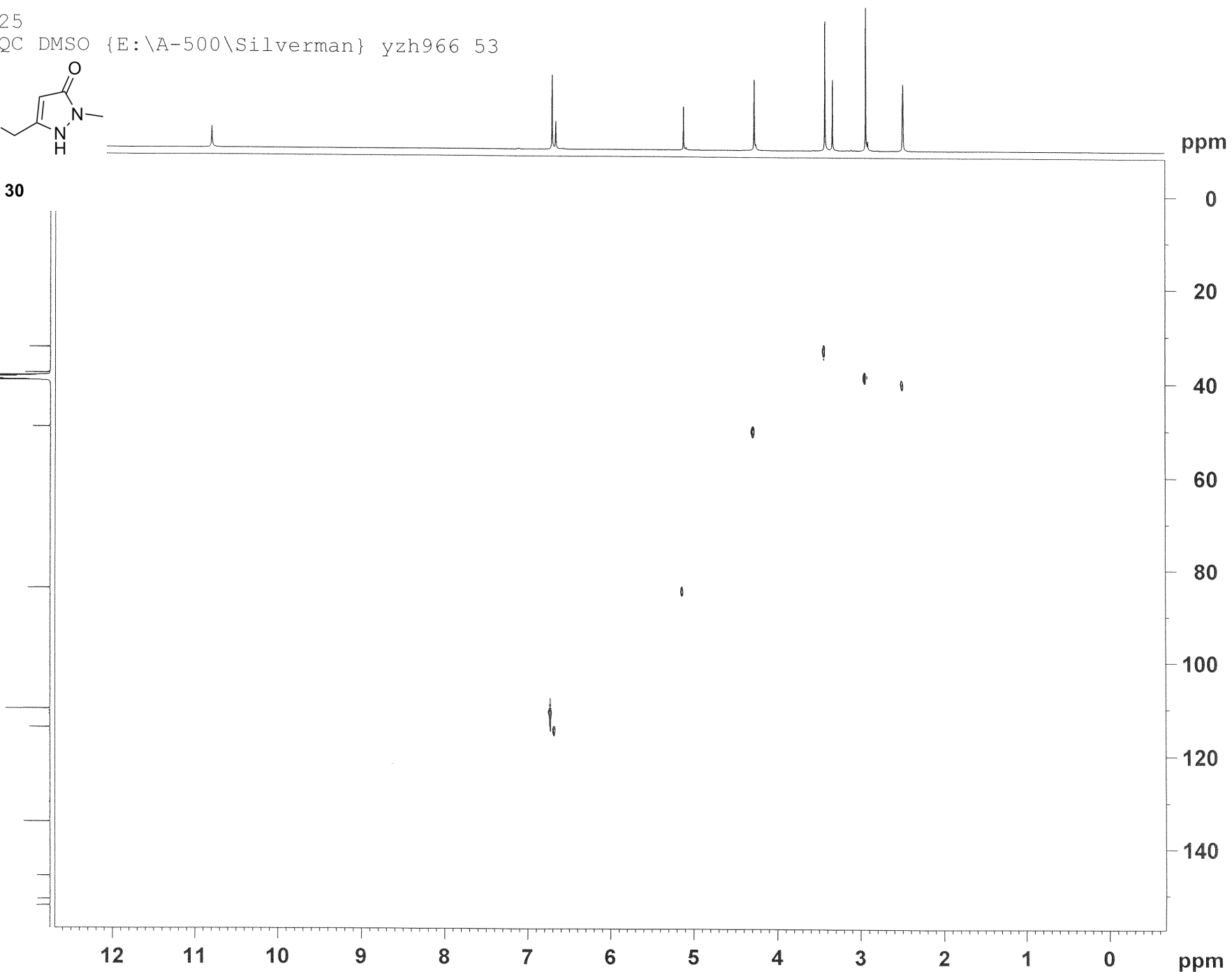
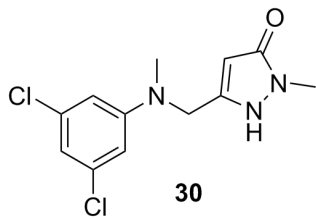
yz-II25  
NU\_C13\_2mg DMSO



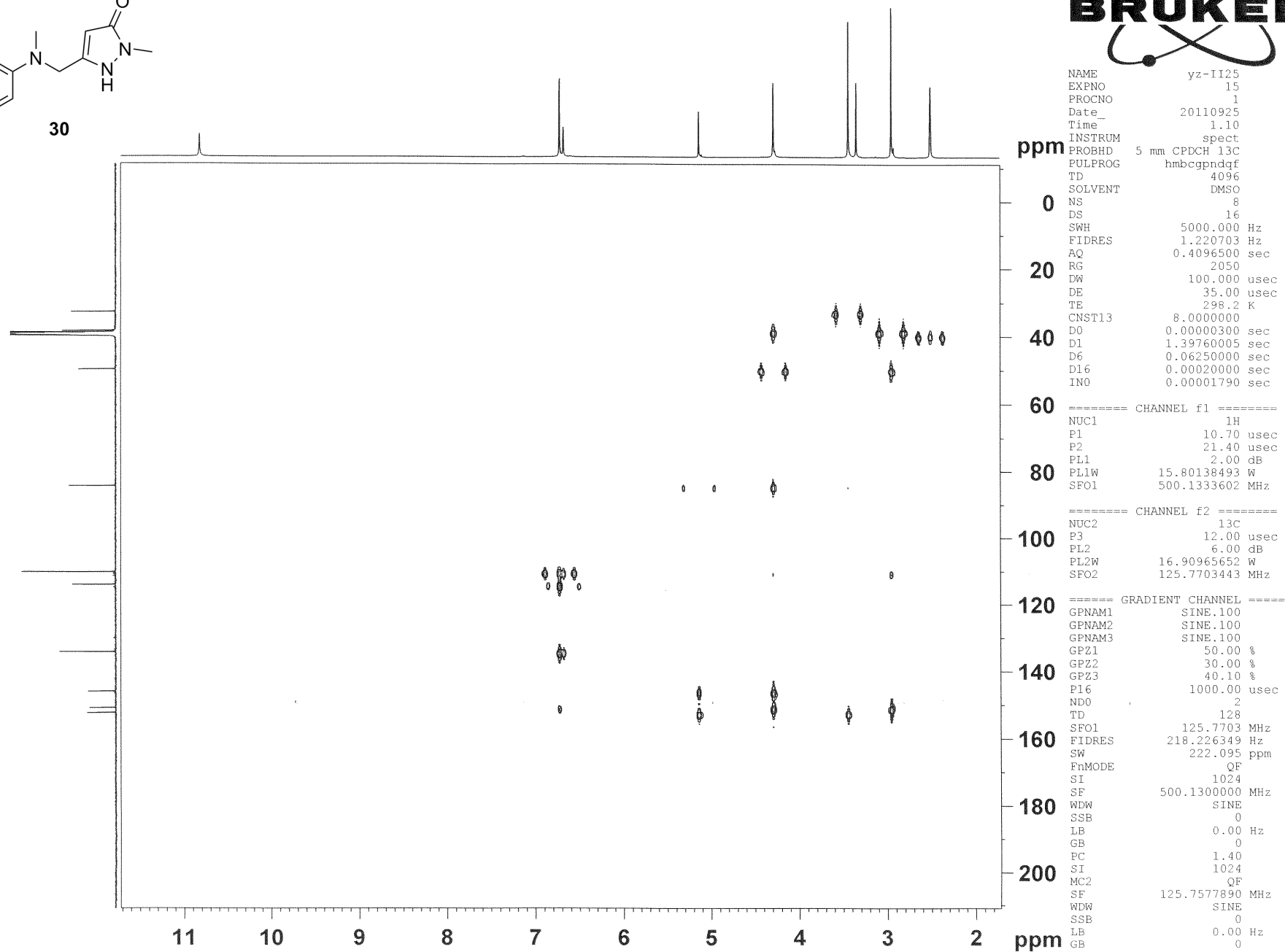
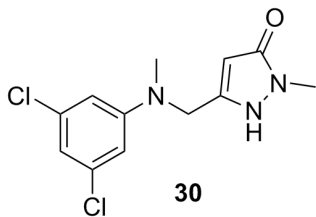
30



yz-II25  
NU\_HSQC DMSO {E:\A-500\Silverman} yzh966 53

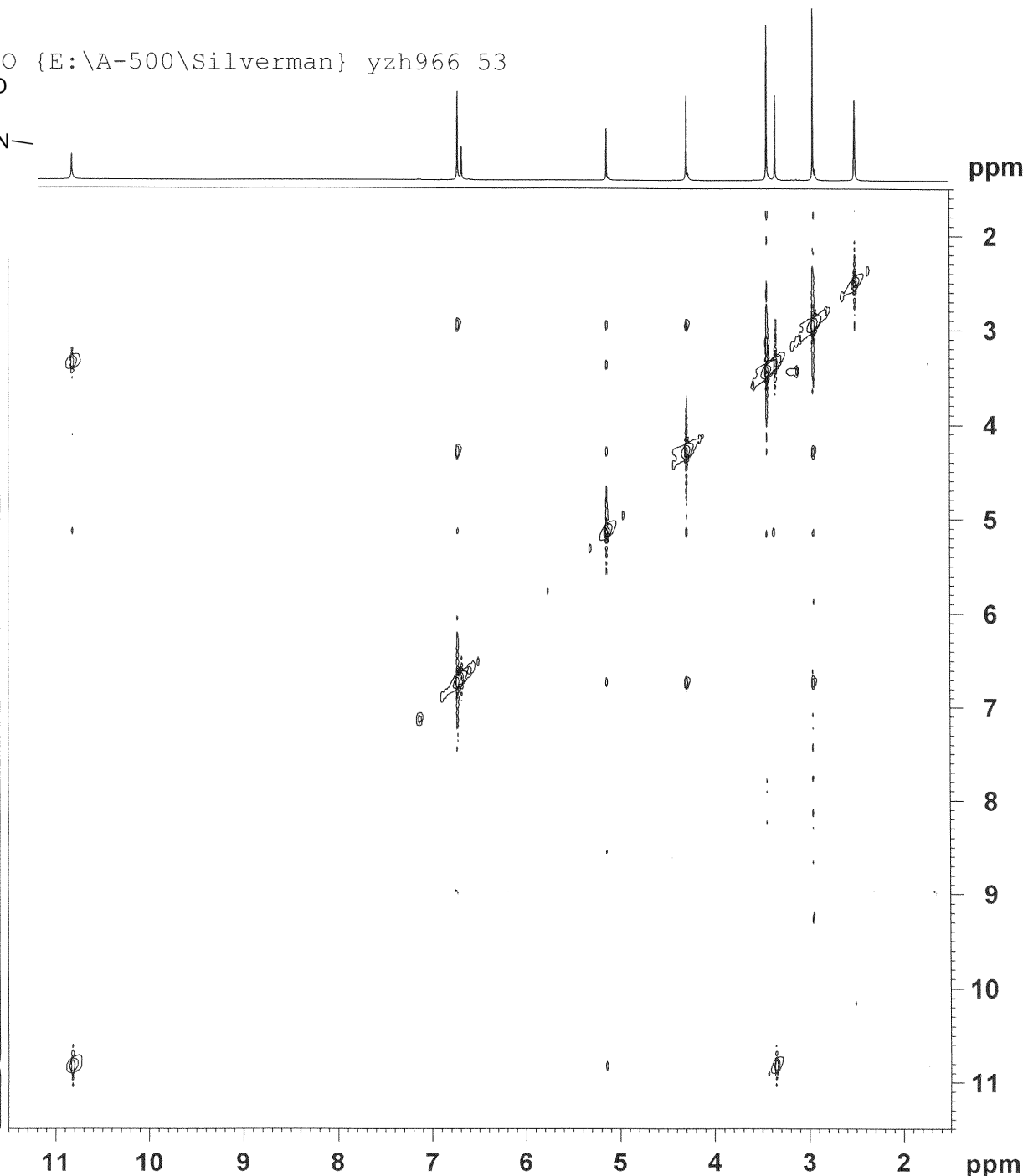
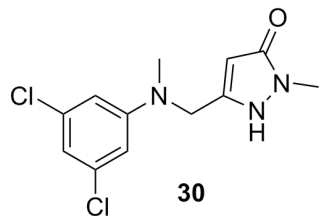


yz-II25  
 HMBCGPND DMSO {E:\A-500\Silverman} yzh966 53



yz-II25

NOESYPSW DMSO {E:\A-500\Silverman} yzh966 53



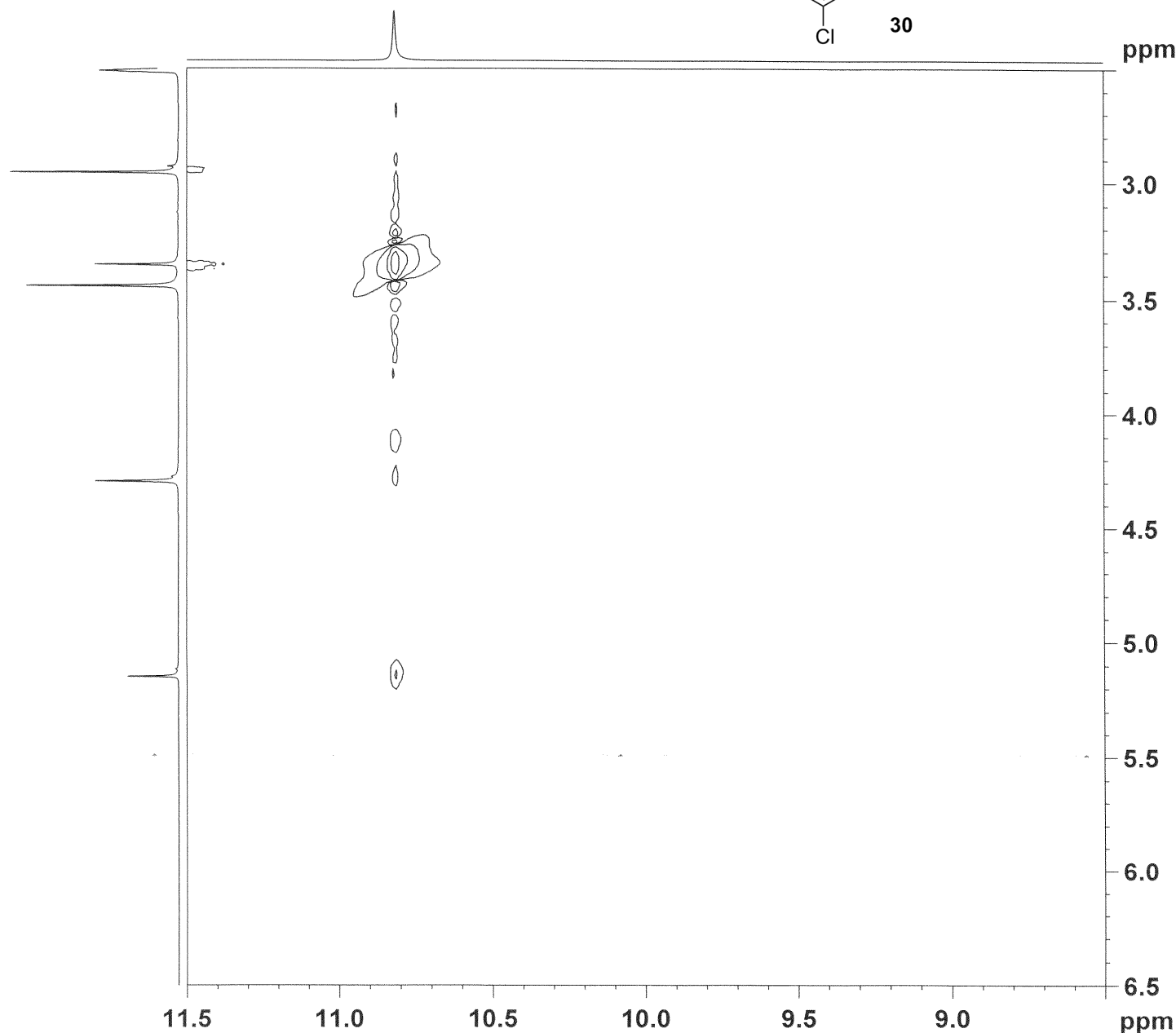
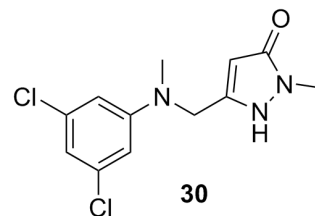
NAME	yz-II25
EXPNO	13
PROCNO	1
Date_	20110924
Time	22.17
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	noesyph
TD	2048
SOLVENT	DMSO
NS	16
DS	4
SWH	5000.000 Hz
FIDRES	2.441406 Hz
AQ	0.2048500 sec
RG	181
DW	100.000 usec
DE	35.00 usec
TE	298.2 K
DO	0.00008638 sec
D1	1.99590397 sec
D8	0.30000001 sec
INO	0.00020000 sec

===== CHANNEL f1 =====

NUC1	1H
P1	10.70 usec
PL1	2.00 dB
PL1W	15.80138493 W
SFO1	500.1333602 MHz
ND0	1
TD	256
SFO1	500.1334 MHz
FIDRES	19.531250 Hz
SW	9.997 ppm
FnMODE	States-TPPI
SI	1024
SF	500.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

PC	1.00
SI	1024
MC2	States-TPPI
SF	500.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

yz-II25  
 NOESYPHSW DMSO {E:\A-500\Silverman} yzh966 53



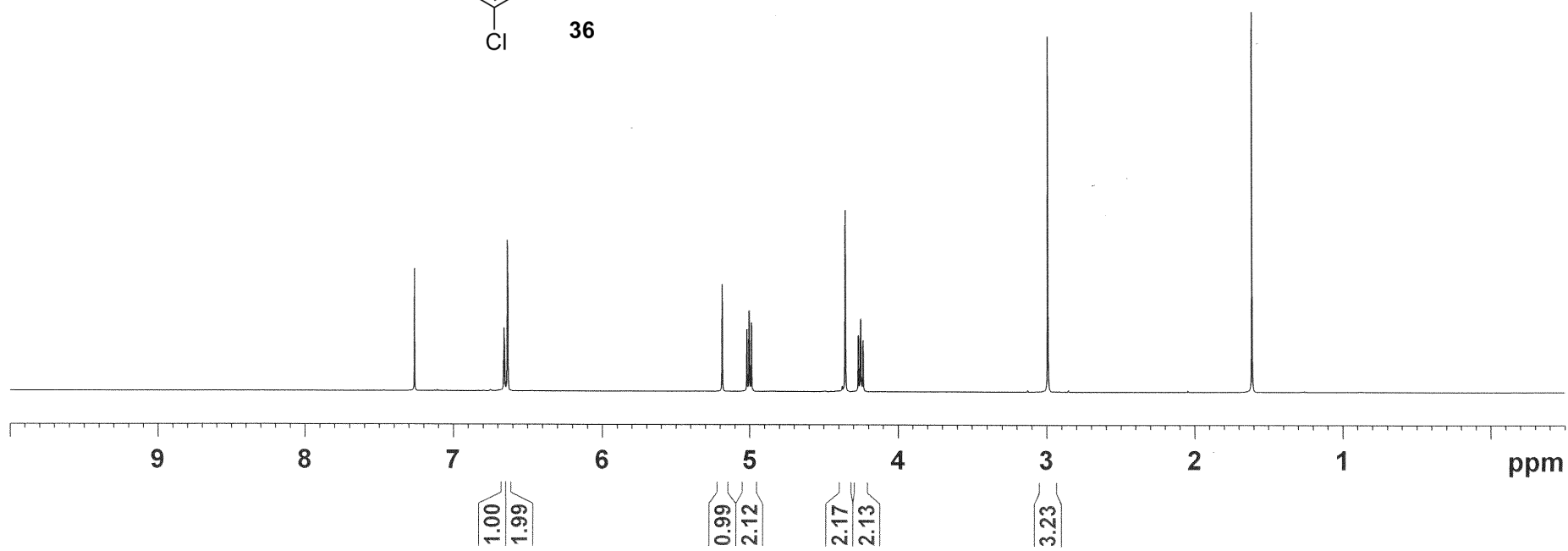
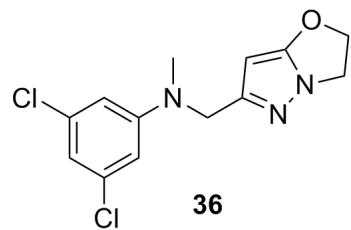
NAME yz-II25  
 EXPNO 13  
 PROCNO 1  
 Date\_ 20110924  
 Time\_ 22.17  
 INSTRUM spect  
 PROBHD 5 mm CPDCH 13C  
 PULPROG noesyph  
 TD 2048  
 SOLVENT DMSO  
 NS 16  
 DS 4  
 SWH 5000.000 Hz  
 FIDRES 2.441406 Hz  
 AQ 0.2048500 sec  
 RG 181  
 DW 100.000 usec  
 DE 35.00 usec  
 TE 298.2 K  
 D0 0.00008638 sec  
 D1 1.99590397 sec  
 D8 0.30000001 sec  
 IN0 0.00020000 sec

===== CHANNEL f1 =====

NUC1 1H  
 P1 10.70 usec  
 PL1 2.00 dB  
 PL1W 15.80138493 W  
 SFO1 500.1333602 MHz  
 ND0 1  
 TD 256  
 SFO1 500.1334 MHz  
 FIDRES 19.531250 Hz  
 SW 9.997 ppm  
 FrMODE States-TPPI  
 SI 1024  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0  
 PC 1.00  
 SI 1024  
 MC2 States-TPPI  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0

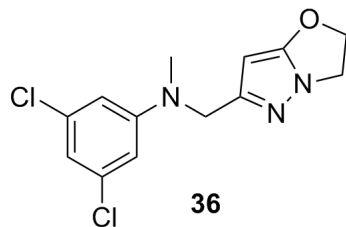
7.260  
6.658  
6.655  
6.636  
6.632  
5.185  
5.019  
5.003  
5.001  
4.987  
4.355  
4.268  
4.251  
4.236  
2.992  
1.611

yz-II81  
PROTON CDC13

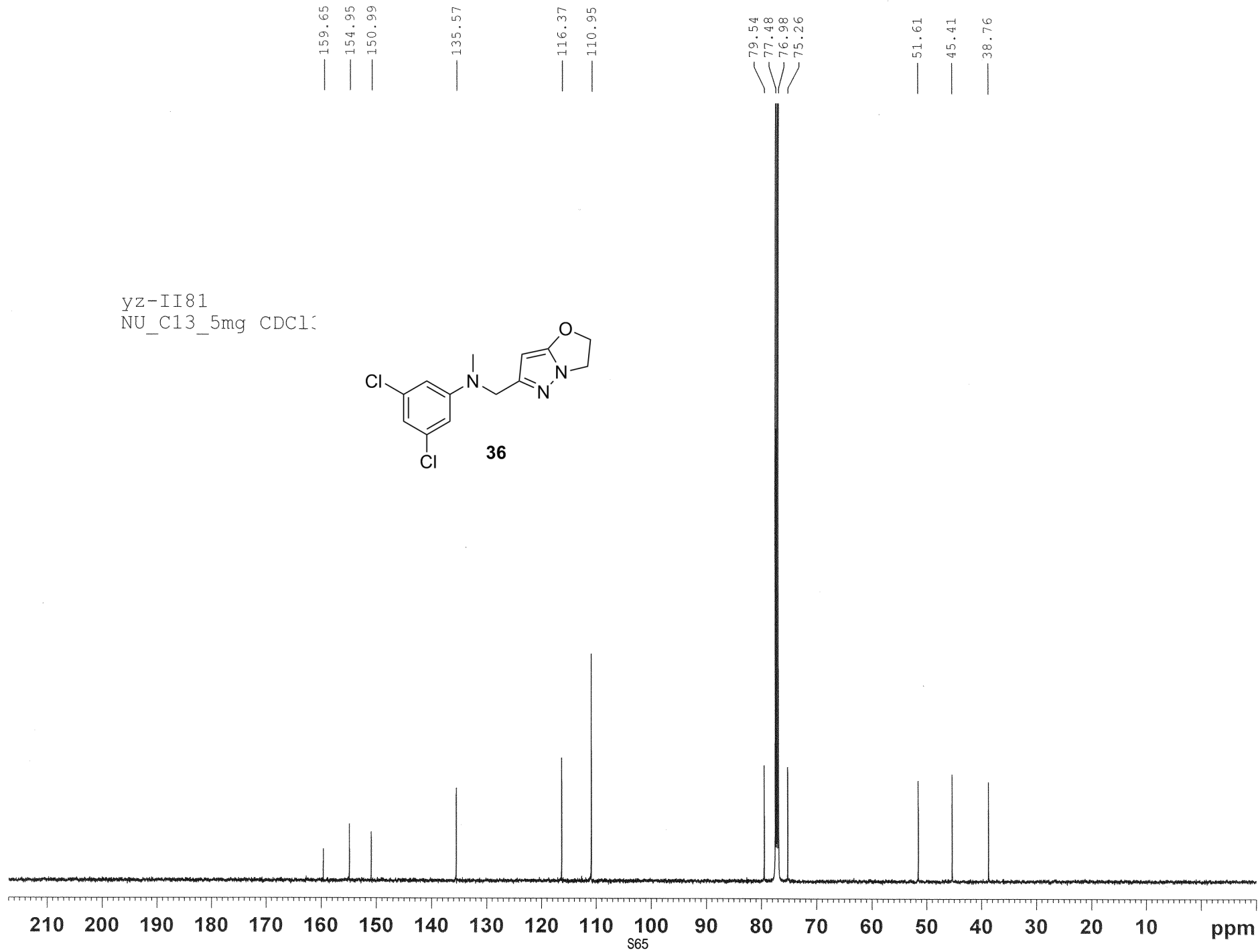




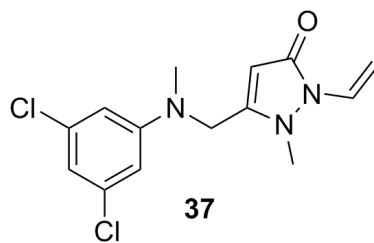
yz-II81  
NU\_C13\_5mg CDCl<sub>3</sub>



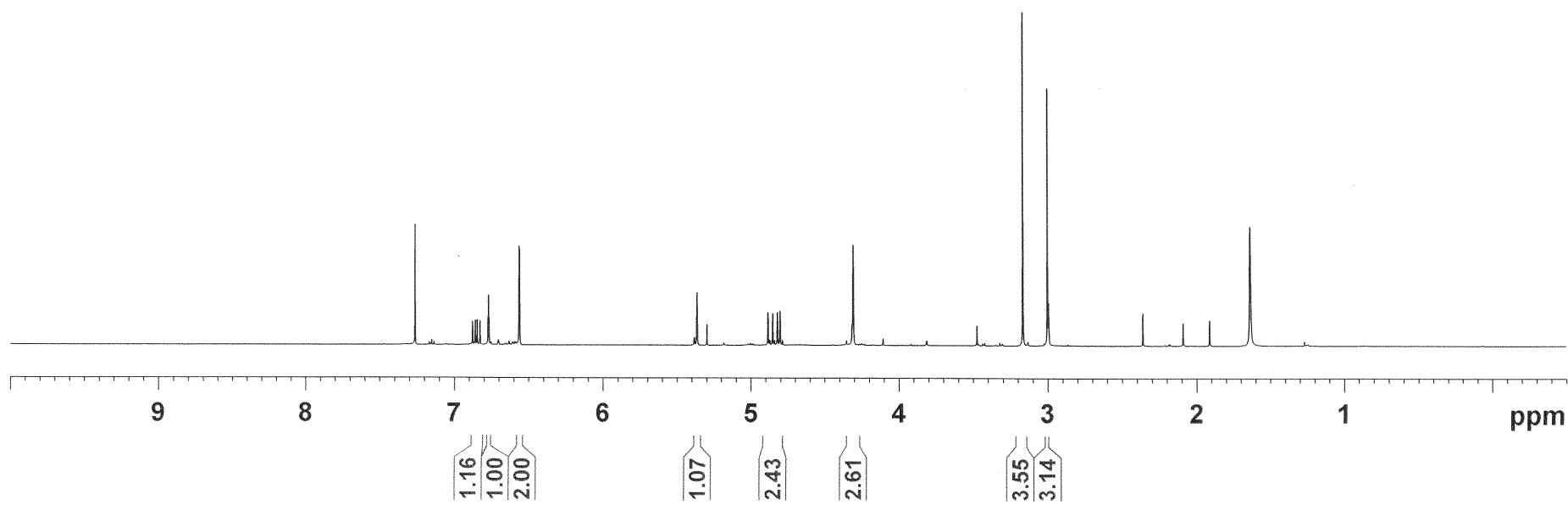
36



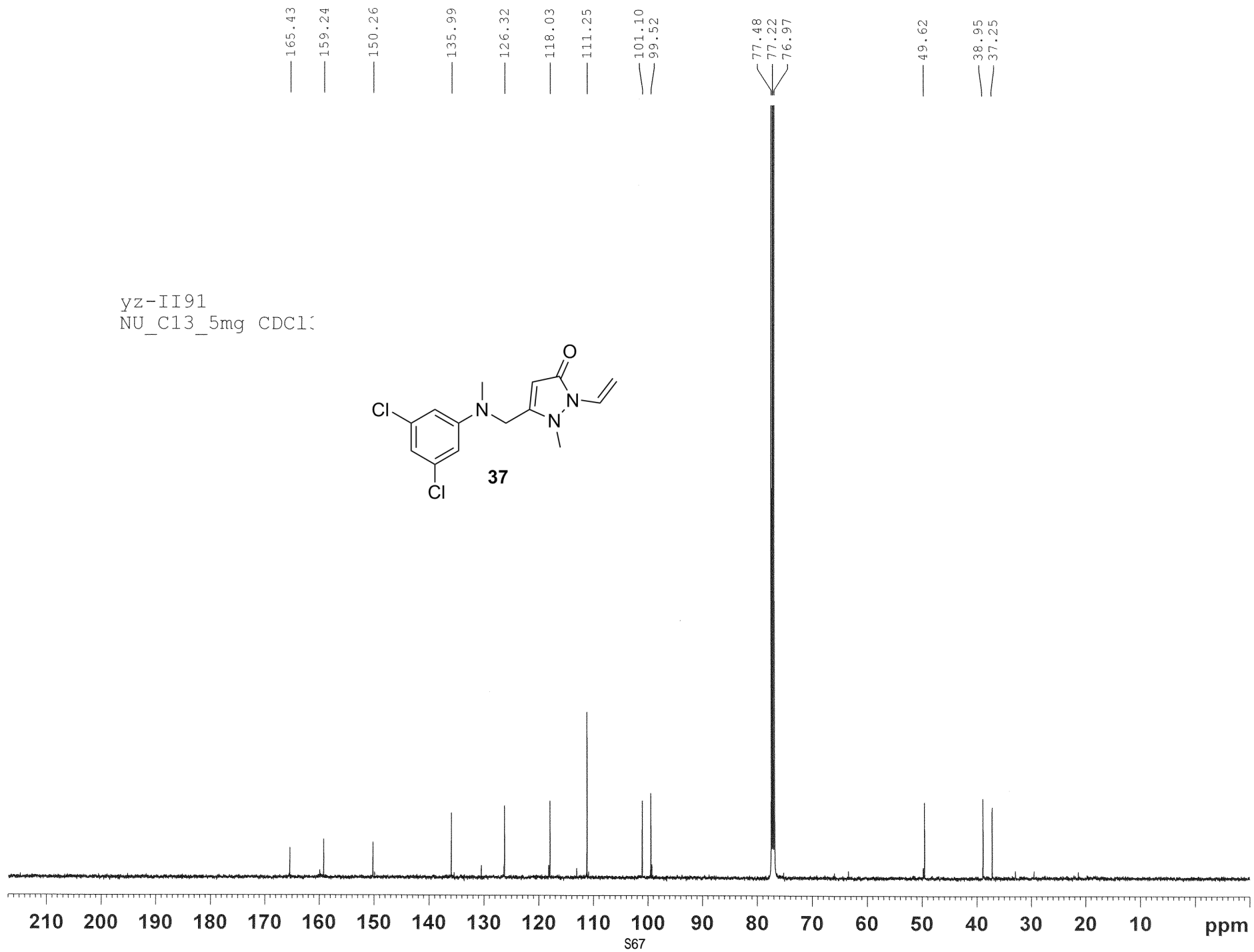
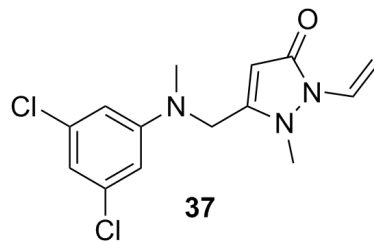
yz-II91  
PROTON CDC13



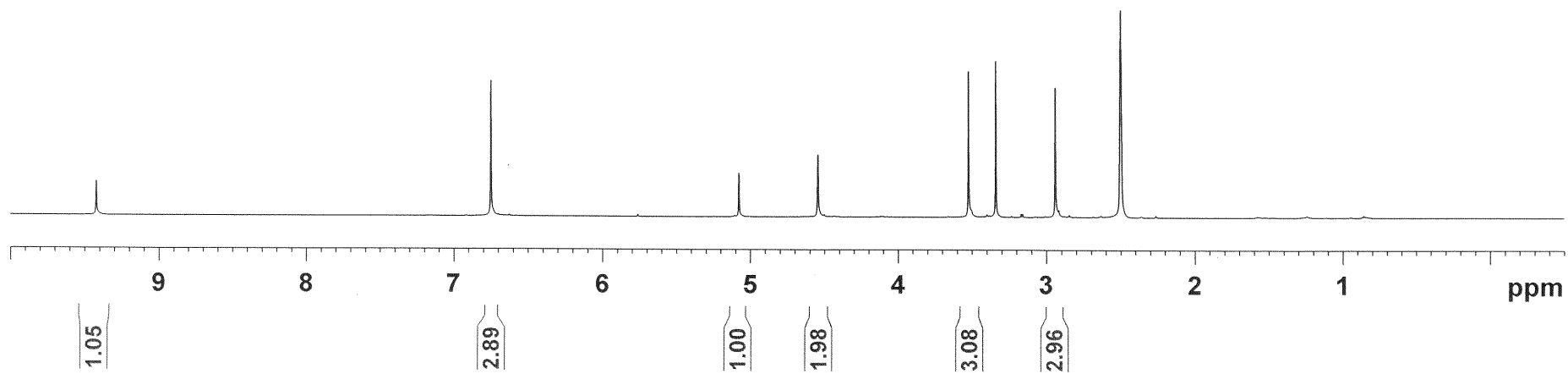
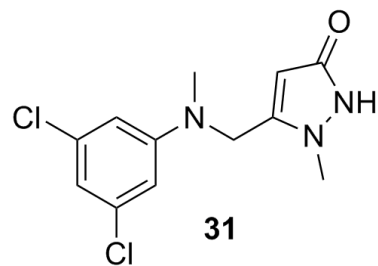
7.260  
6.876  
6.858  
6.844  
6.826  
6.772  
6.769  
6.766  
6.565  
6.561  
5.366  
5.298  
4.886  
4.885  
4.854  
4.853  
4.822  
4.821  
4.803  
4.314  
4.308  
3.167  
3.003  
2.994  
1.637



yz-II91  
NU\_C13\_5mg CDCl<sub>3</sub>



yz-II94  
PROTON DMSO



—9.421

—6.750

—5.077

—4.545

—3.523

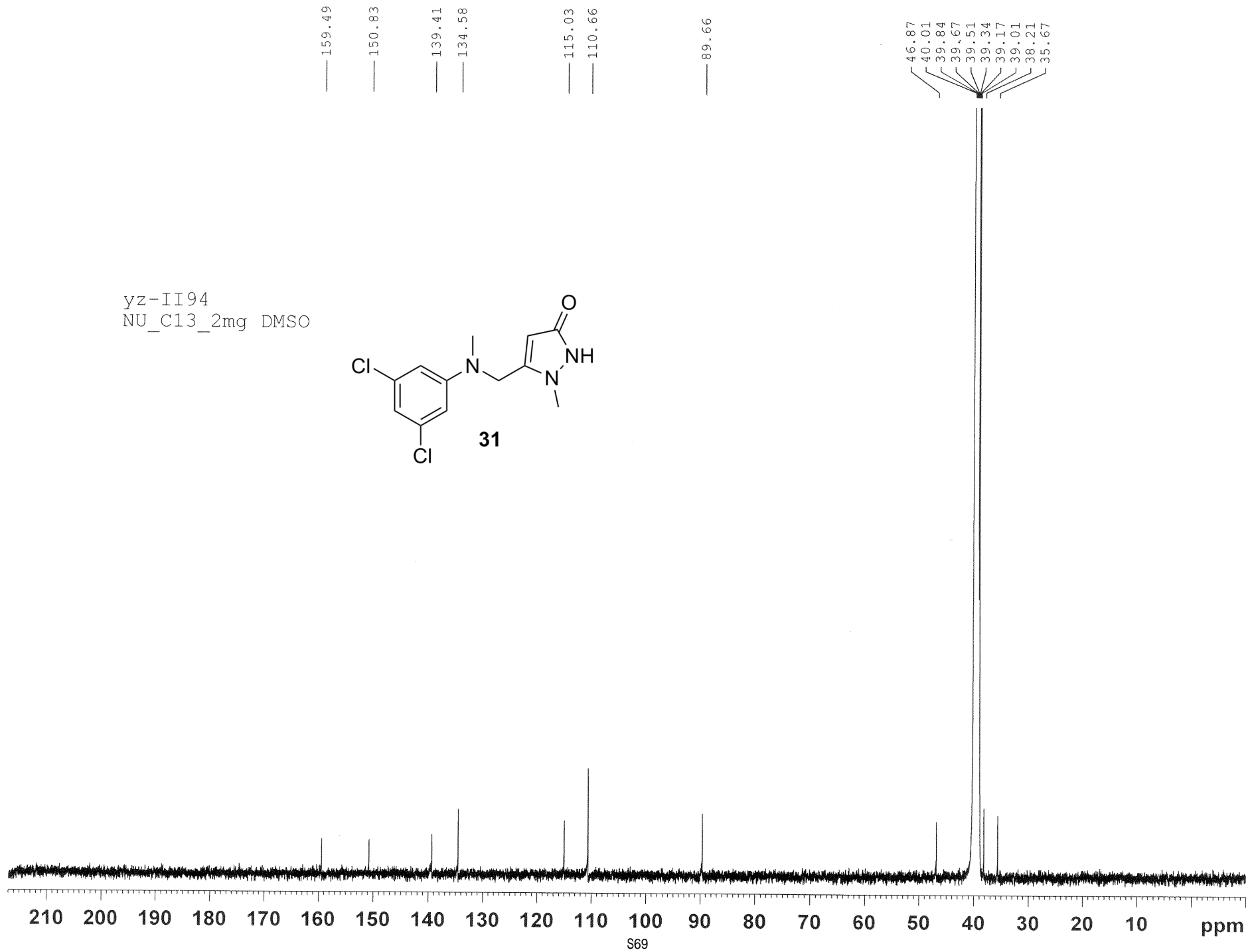
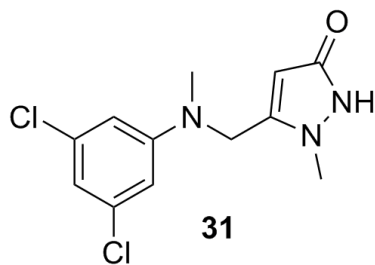
—3.339

—2.940

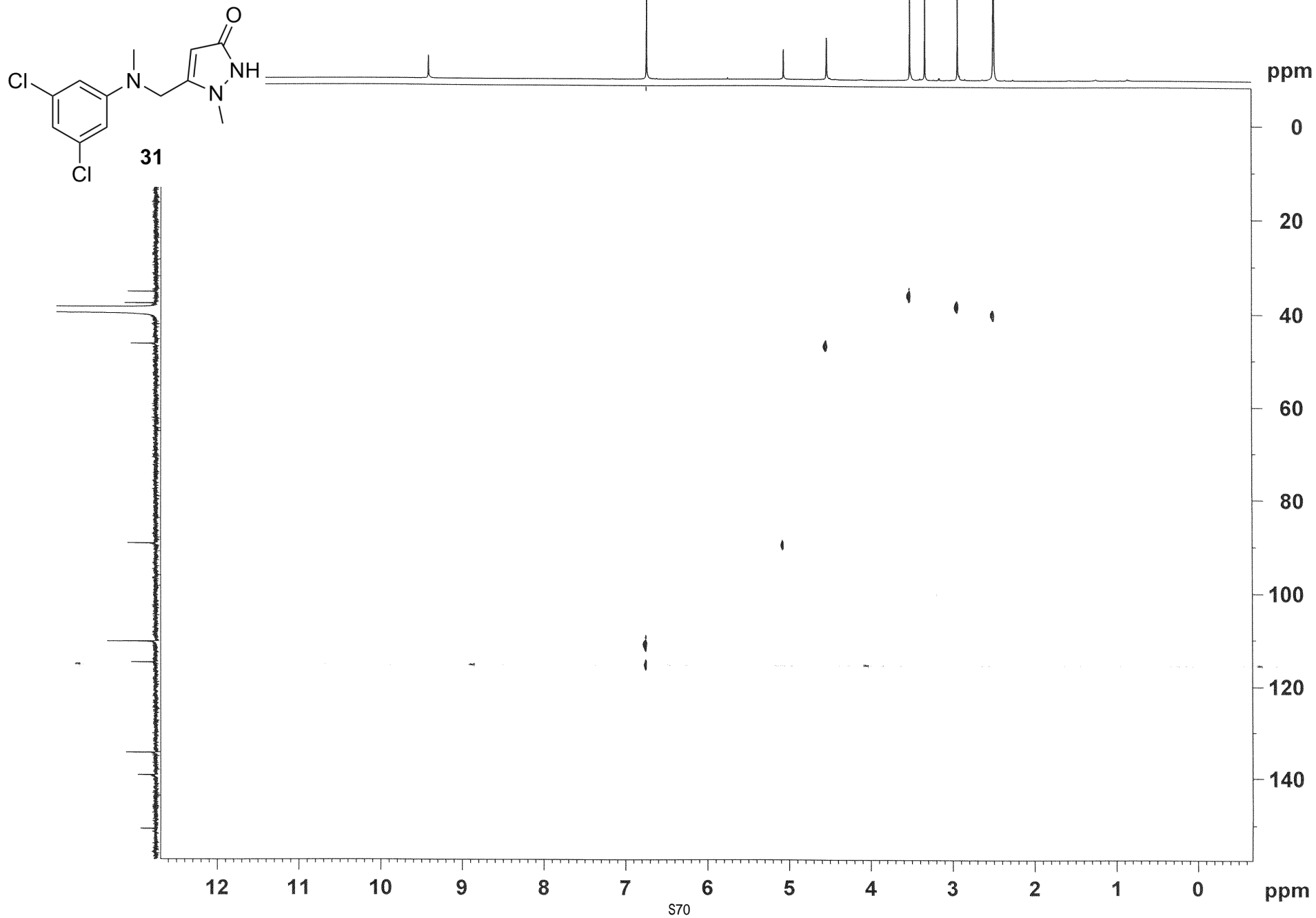
—2.503

—2.500

yz-II94  
NU\_C13\_2mg DMSO

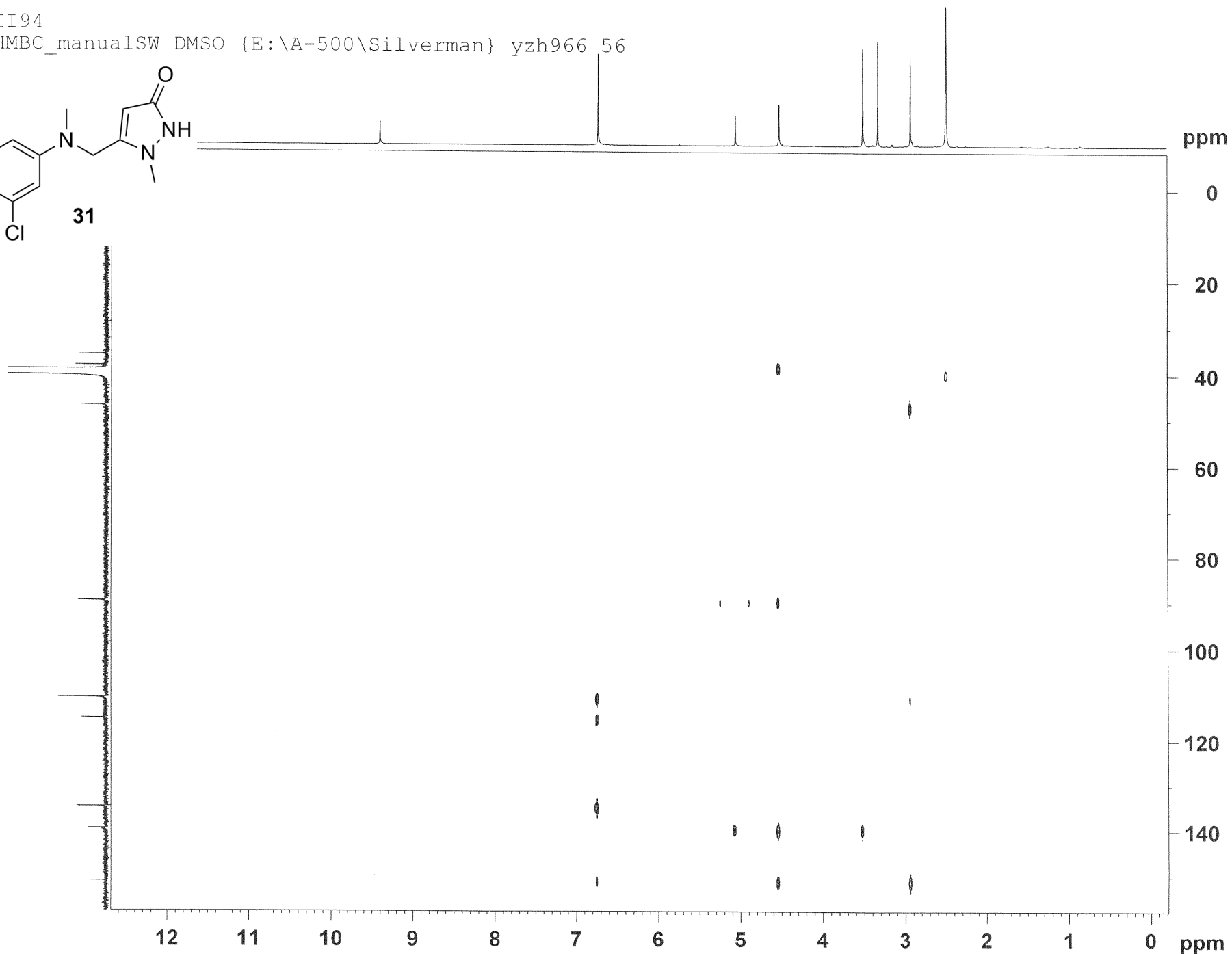
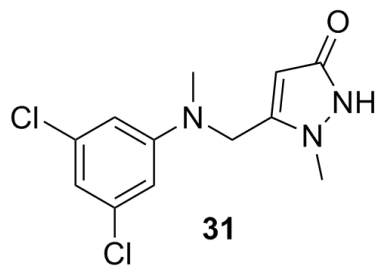


yz-II94  
NU\_HSQC DMSO {E:\A-500\Silverman} yzh966 56

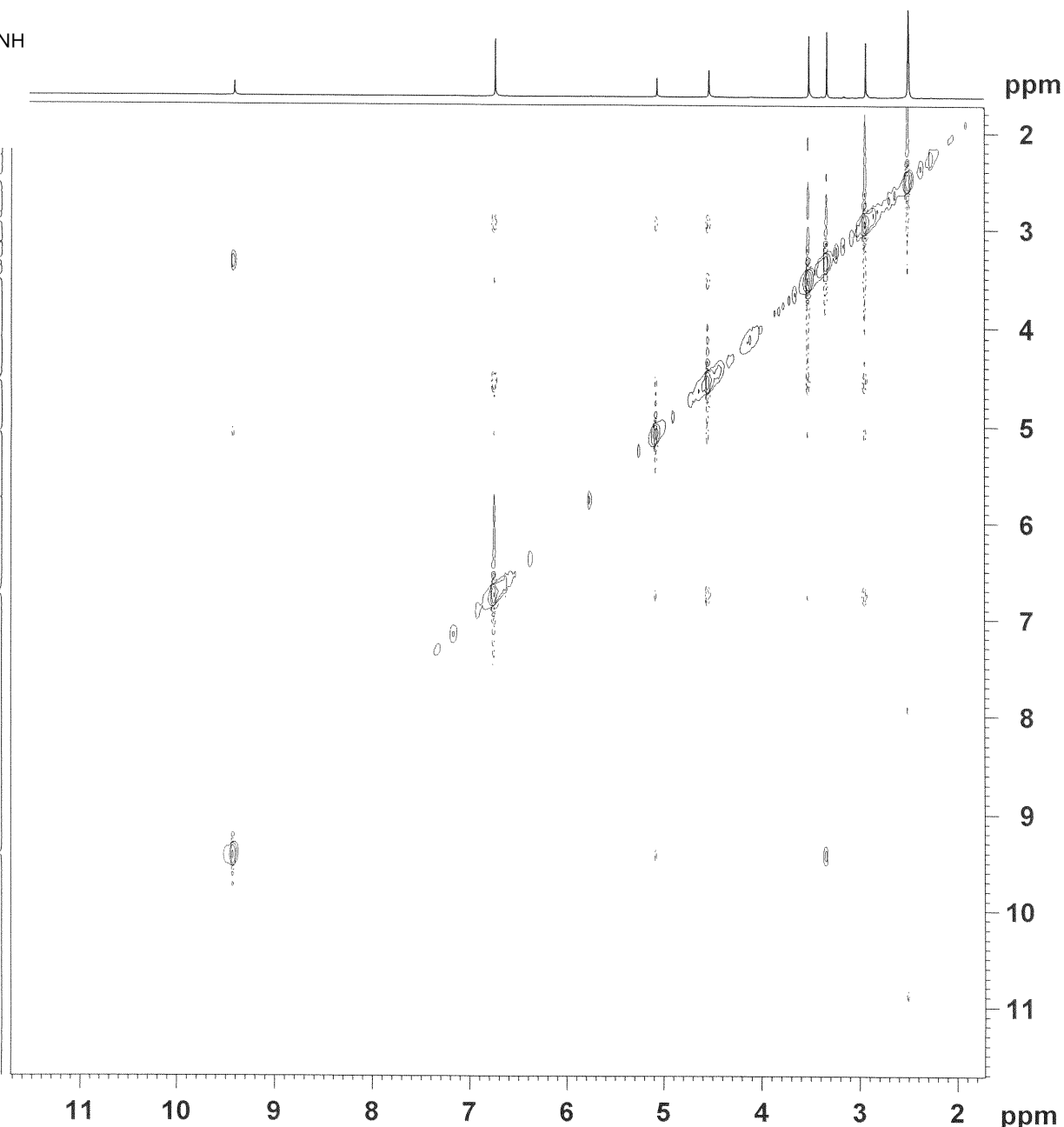
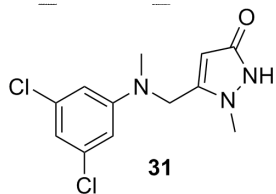


yz-II94

NU\_HMBC\_manualSW DMSO {E:\A-500\Silverman} yzh966 56



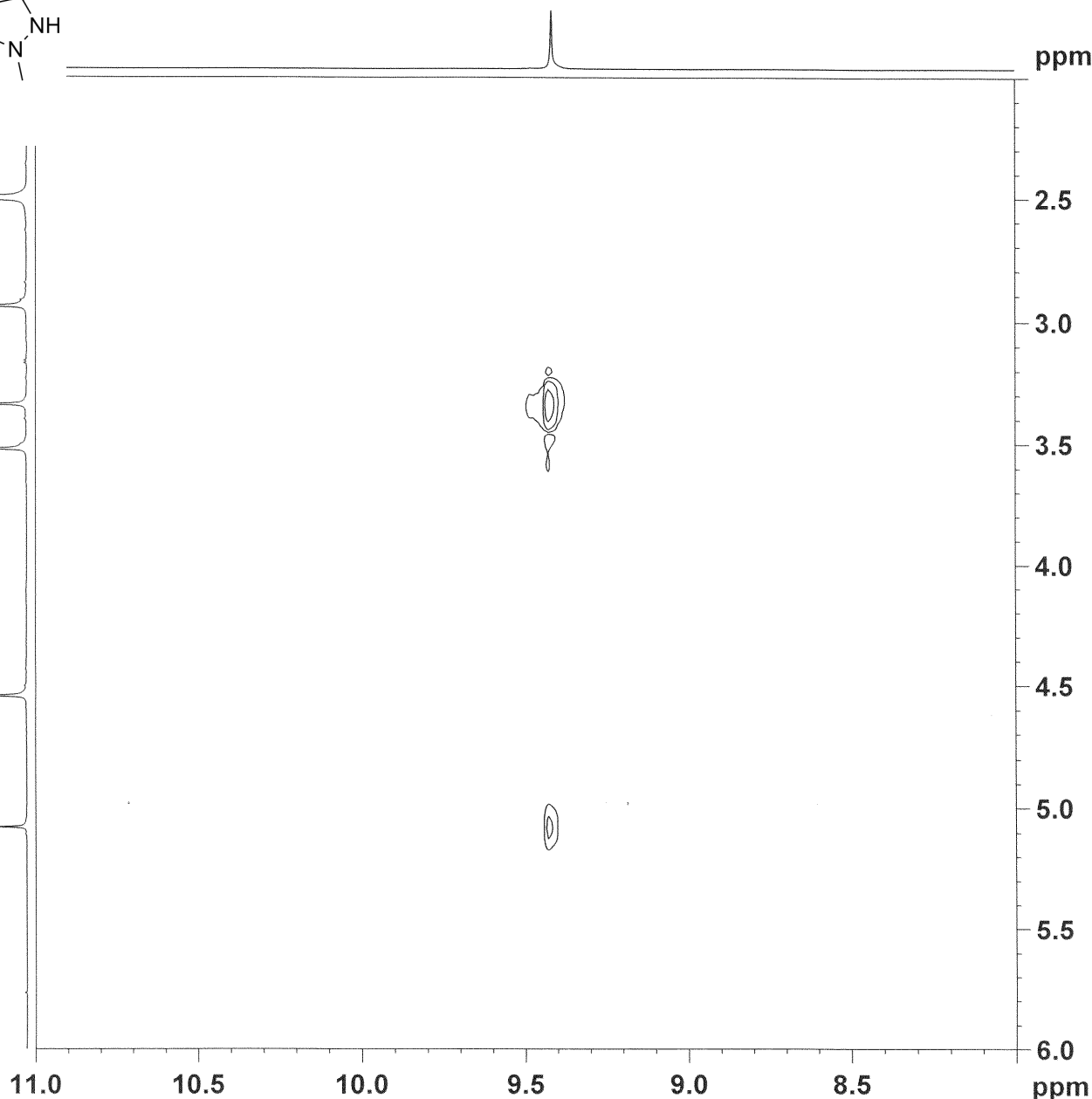
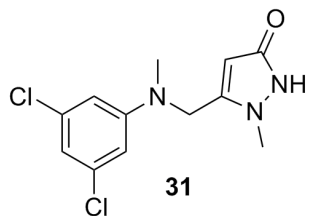
yz-II94  
 NU\_NOESY\_manualSW DMSO {E:\A-500\Silverman} yzh966 56



NAME	yz-II94
EXPNO	15
PROCNO	1
Date_	20111001
Time	22.35
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	noesygp
TD	2048
SOLVENT	DMSO
NS	16
DS	4
SWH	7500.000 Hz
FIDRES	3.662109 Hz
AQ	0.1365833 sec
RG	406
DW	66.667 usec
DE	35.00 usec
TE	298.2 K
D0	0.00005304 sec
D1	2.00000000 sec
D8	0.30000001 sec
D16	0.00020000 sec
IN0	0.00013335 sec
===== CHANNEL f1 =====	
NUC1	1H
P1	10.70 usec
P2	21.40 usec
PL1	2.00 dB
PL1W	15.80138493 W
SFO1	500.1323022 MHz
===== GRADIENT CHANNEL =====	
GPNAME1	SINE.100
GPZ1	80.00 %
P16	1000.00 usec
ND0	1
TD	256
SFO1	500.1323 MHz
FIDRES	29.296875 Hz
SW	14.996 ppm
FnMODE	States-TPPI
SI	1024
SF	500.130000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	States-TPPI
SF	500.130000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0



yz-II94  
 NU\_NOESY\_manualSW DMSO {E:\A-500\Silverman} yzh966 56



NAME yz-II94  
 EXPNO 15  
 PROCNO 1  
 Date\_ 20111001  
 Time\_ 22.35  
 INSTRUM spect  
 PROBHD 5 mm CPDCH 13C  
 PULPROG noesygpph  
 TD 2048  
 SOLVENT DMSO  
 NS 16  
 DS 4  
 SWH 7500.000 Hz  
 FIDRES 3.662109 Hz  
 AQ 0.1365833 sec  
 RG 406  
 DW 66.667 usec  
 DE 35.00 usec  
 TE 298.2 K  
 D0 0.00005304 sec  
 D1 2.00000000 sec  
 D8 0.30000001 sec  
 D16 0.00020000 sec  
 IN0 0.00013335 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.70 usec  
 P2 21.40 usec  
 PL1 2.00 dB  
 PL1W 15.80138493 W  
 SFO1 500.1323022 MHz

===== GRADIENT CHANNEL =====  
 GPNAM1 SINE.100  
 GPZ1 80.00 %  
 P16 1000.00 usec  
 ND0 1  
 TD 256  
 SFO1 500.1323 MHz  
 FIDRES 29.296875 Hz  
 SW 14.996 ppm  
 FnMODE States-TPPI  
 SI 1024  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0  
 PC 1.00  
 SI 1024  
 MC2 States-TPPI  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0

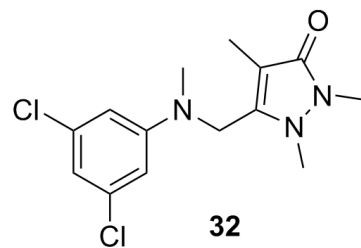
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6.786  
6.783  
6.780  
6.657  
6.654

4.226

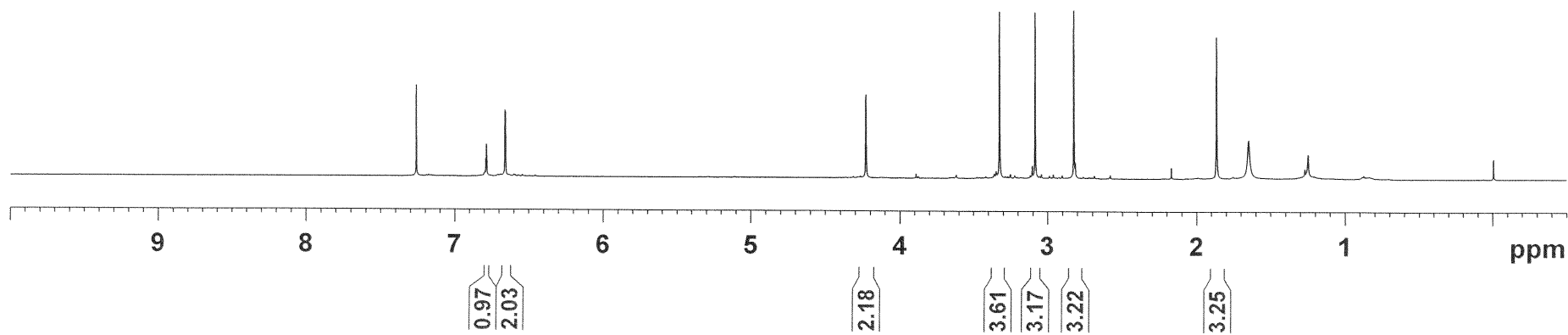
3.322  
3.081  
2.821

1.860  
1.644  
1.243

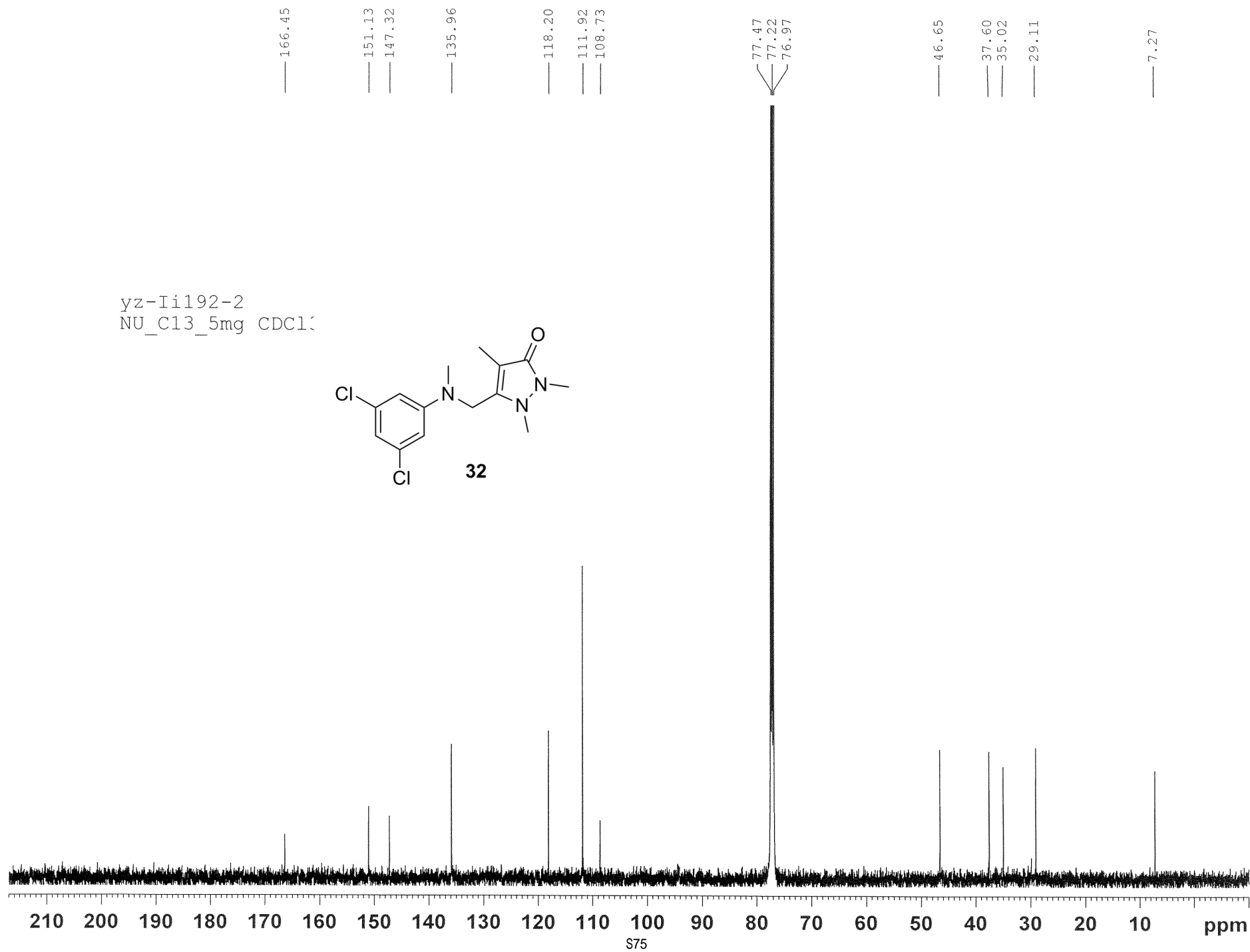
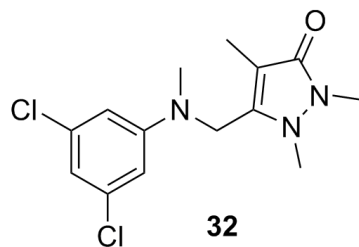
yz-Ii192-2  
PROTON CDC13



32

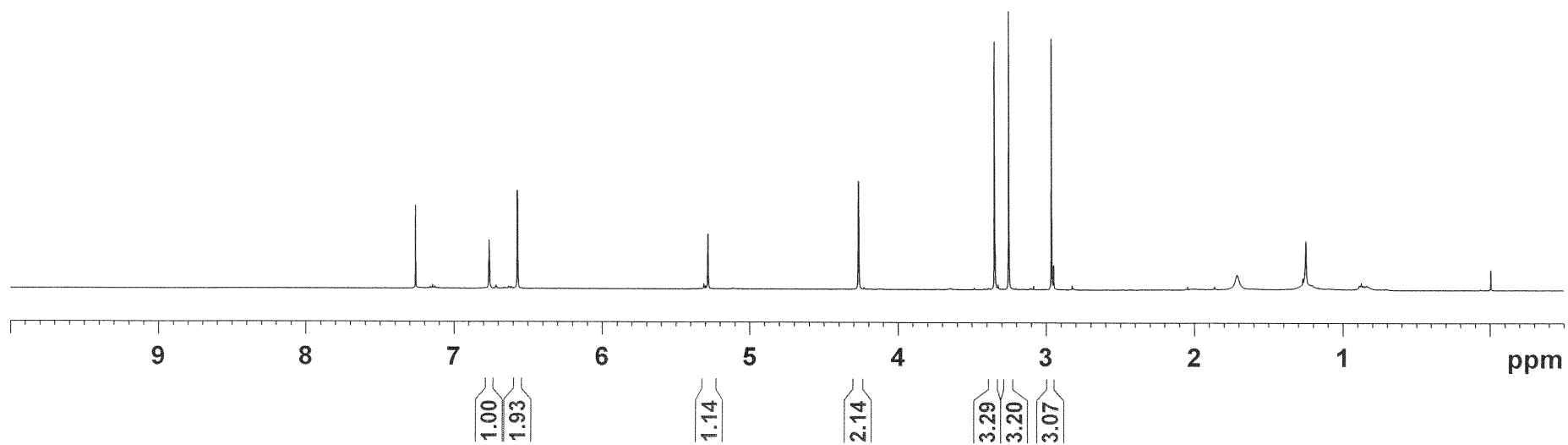
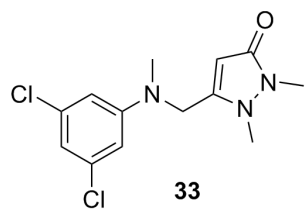


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NU\_C13\_5mg CDCl<sub>3</sub>

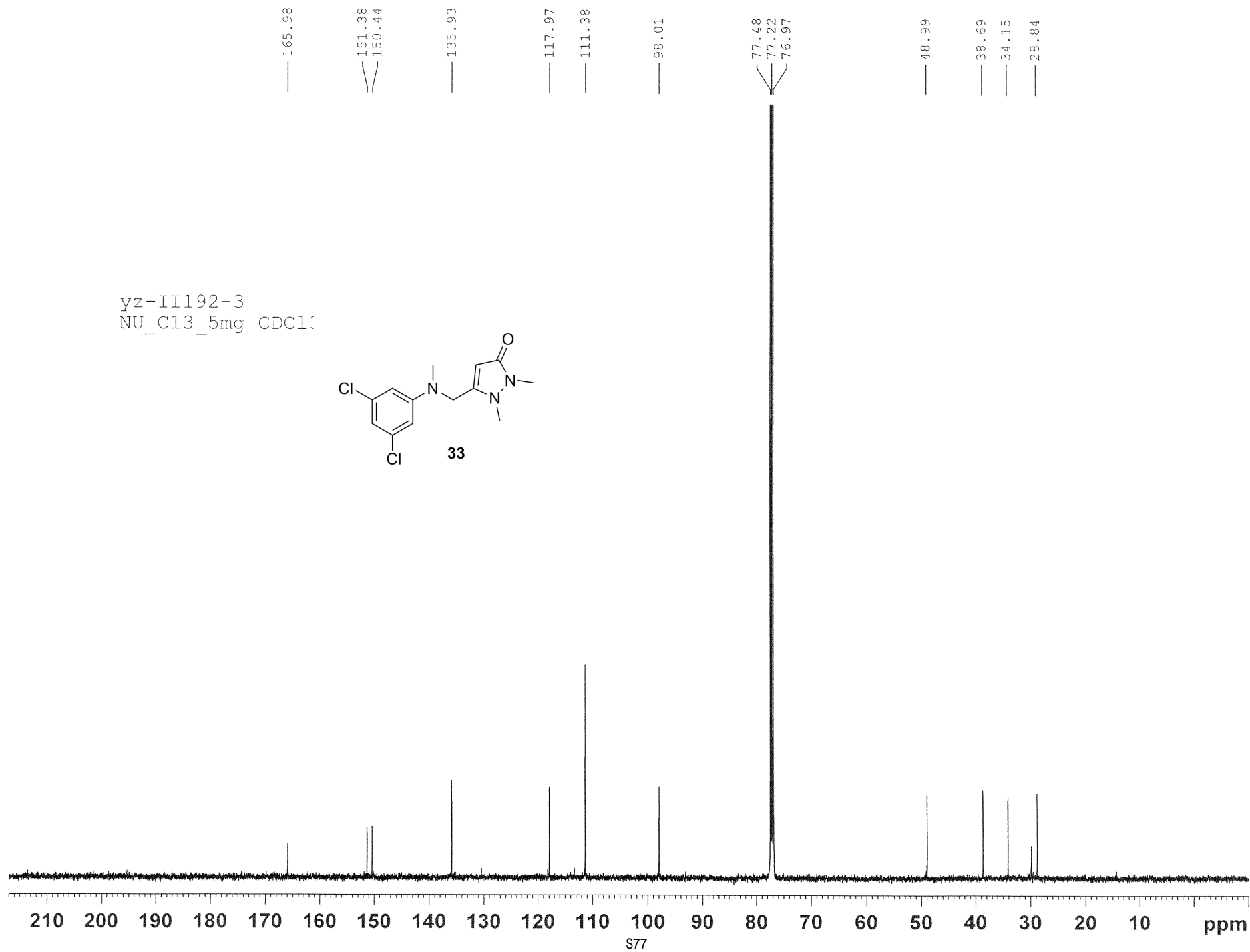
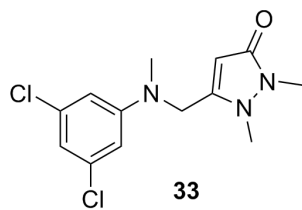


7.260  
6.764  
6.760  
6.757  
6.571  
6.567  
— 5.282  
— 4.266  
3.347  
3.254  
3.250  
2.962

yz-III192-3  
PROTON CDC13



yz-III192-3  
NU\_C13\_5mg CDCl<sub>3</sub>



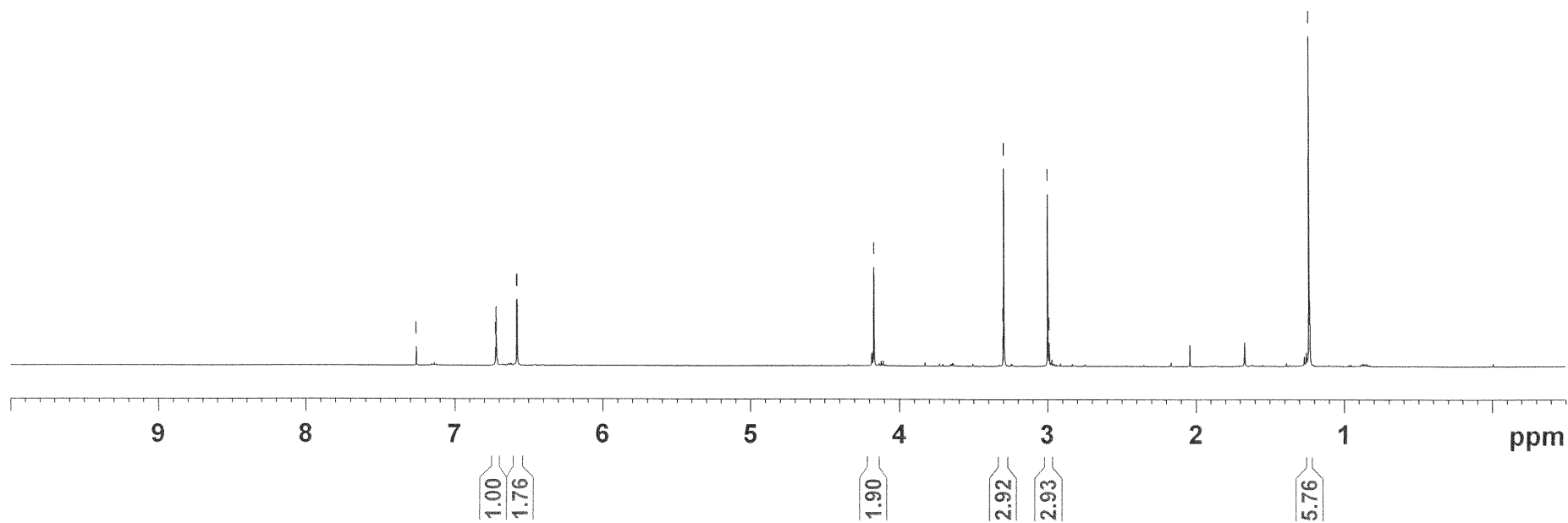
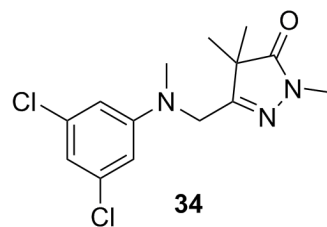
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6.720  
6.717  
6.580  
6.577

4.169

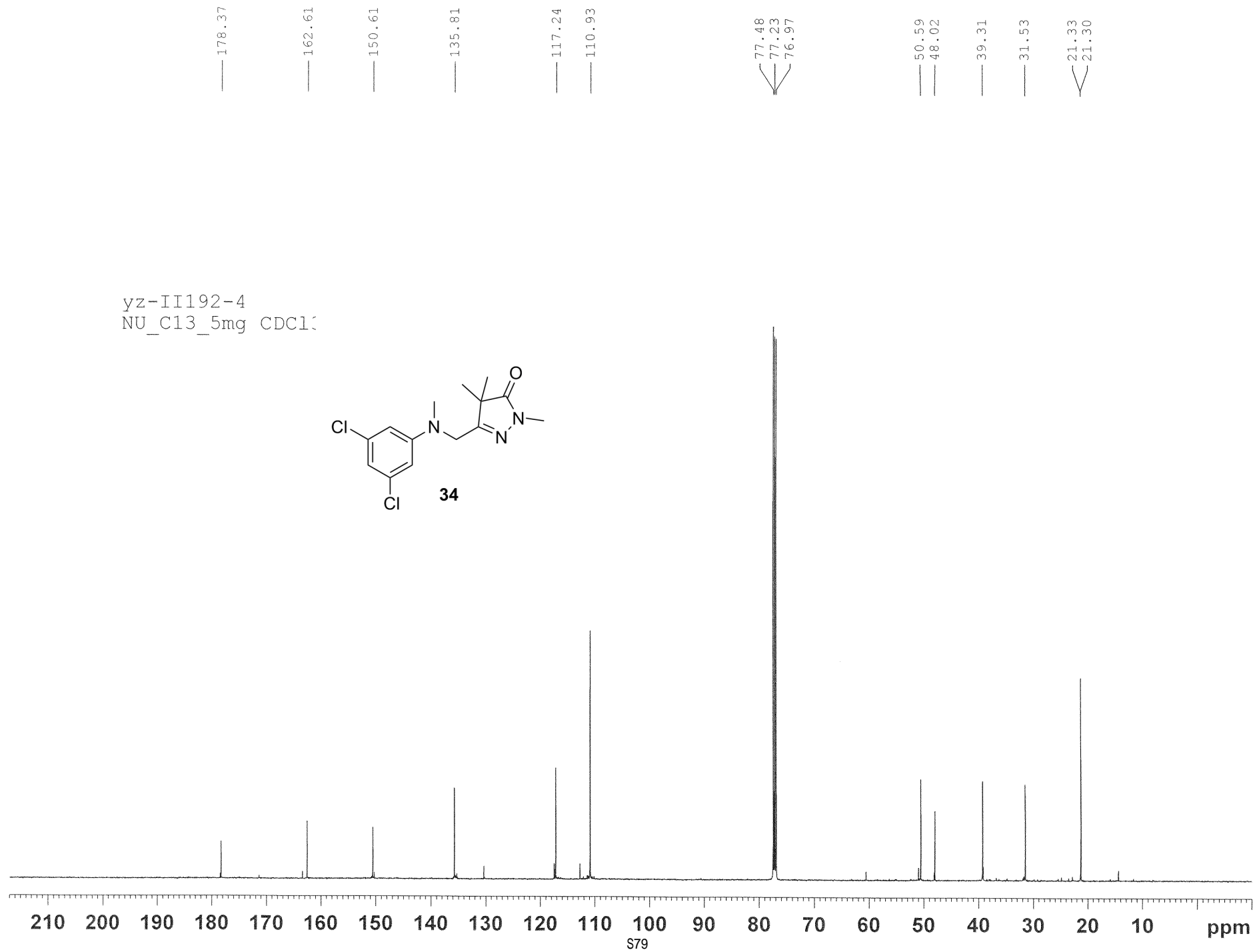
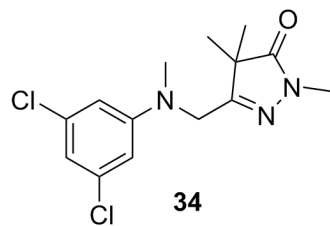
3.299  
3.295  
2.998  
2.987

1.234

yz-III192-4  
PROTON CDC13



yz-II192-4  
NU\_C13\_5mg CDCl<sub>3</sub>



— 10.991

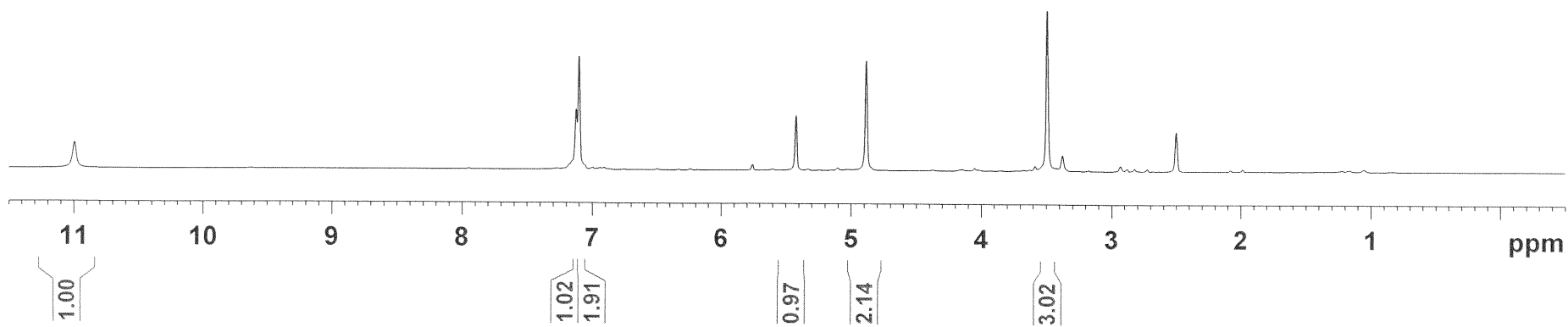
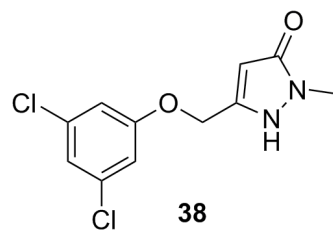
7.122  
7.098

— 5.417

— 4.880

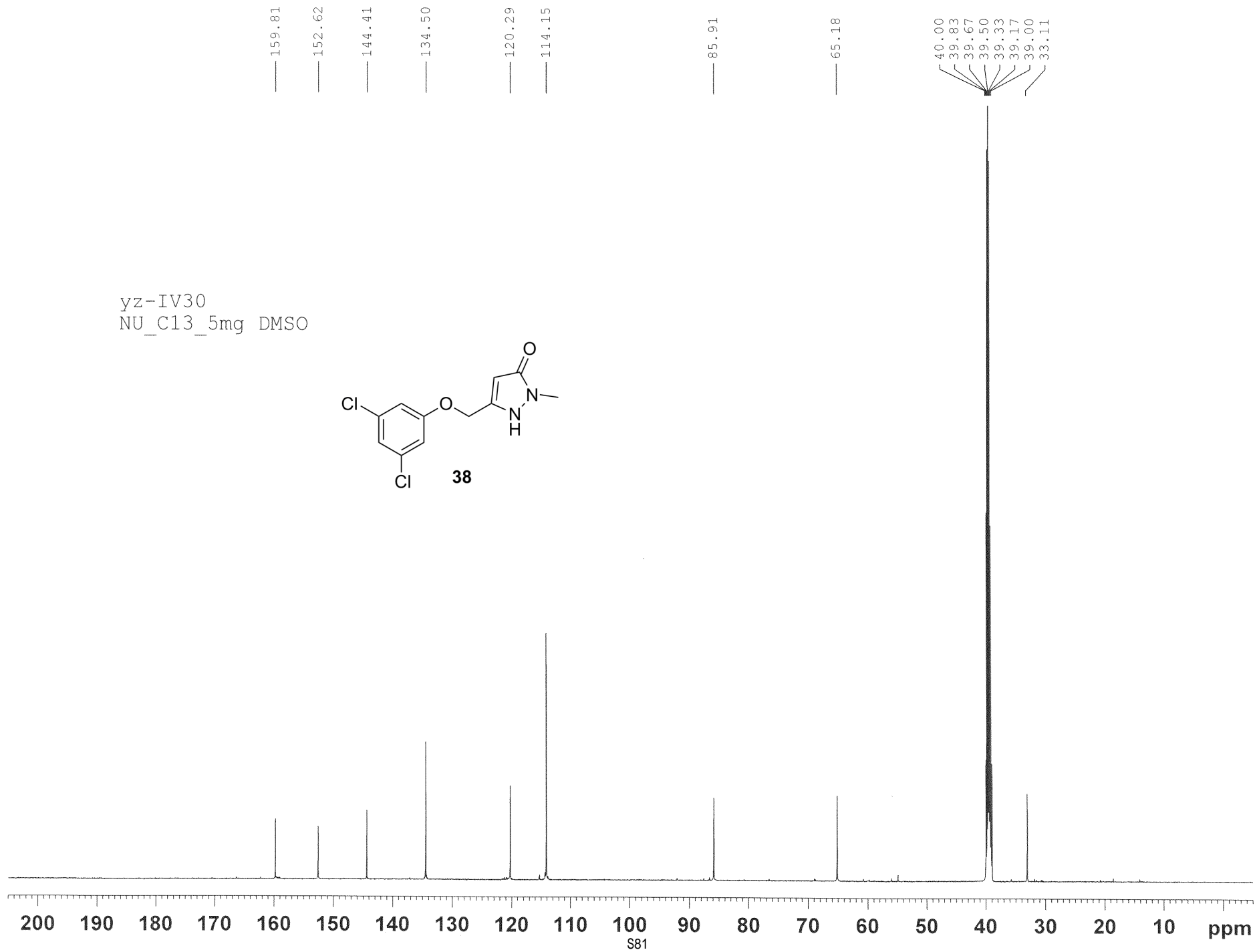
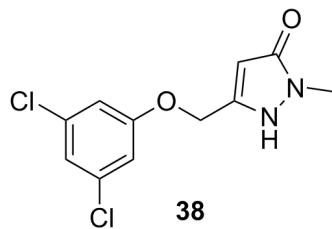
3.489  
3.374

— 2.498

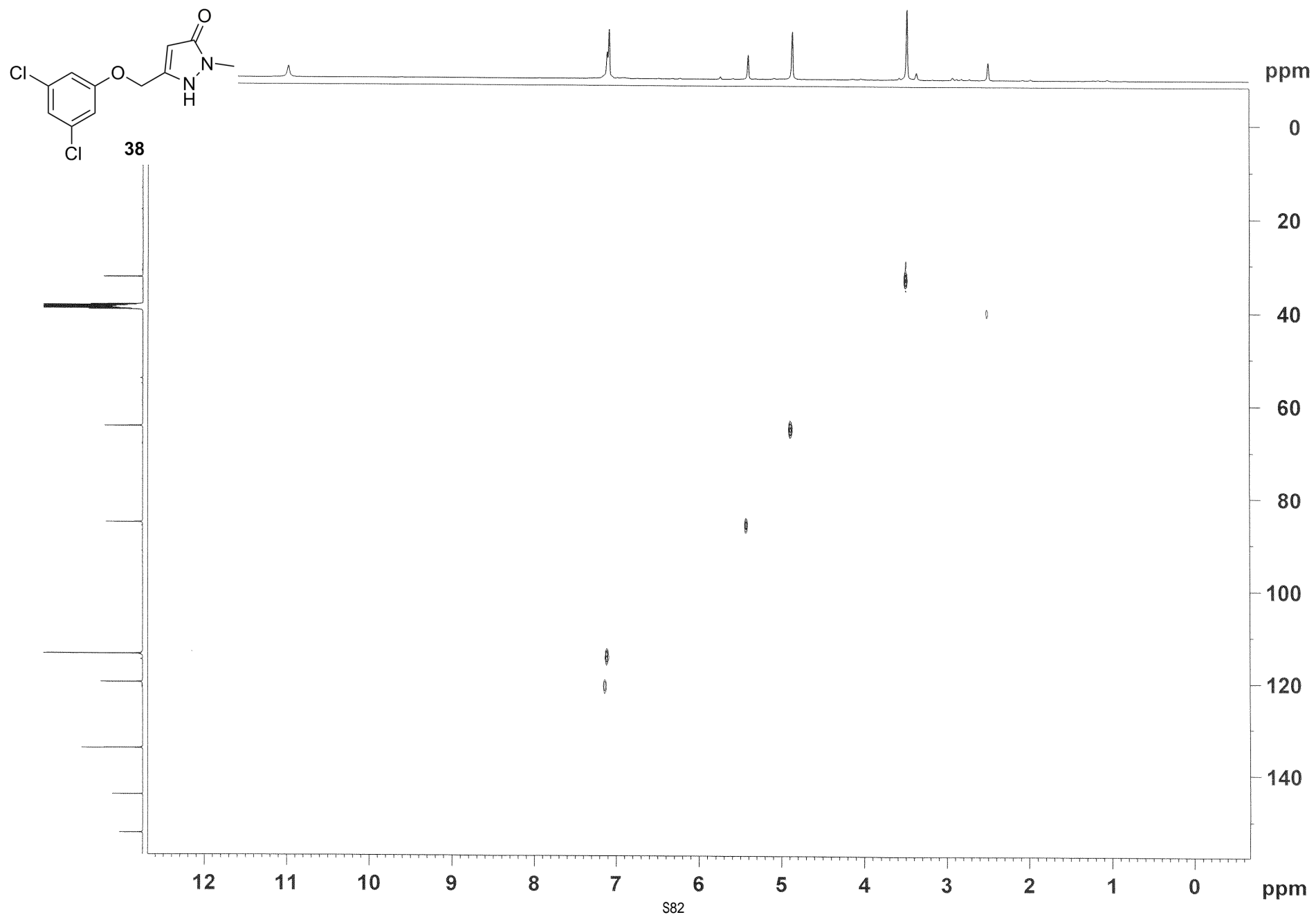
yz-IV30  
PROTON DMSO



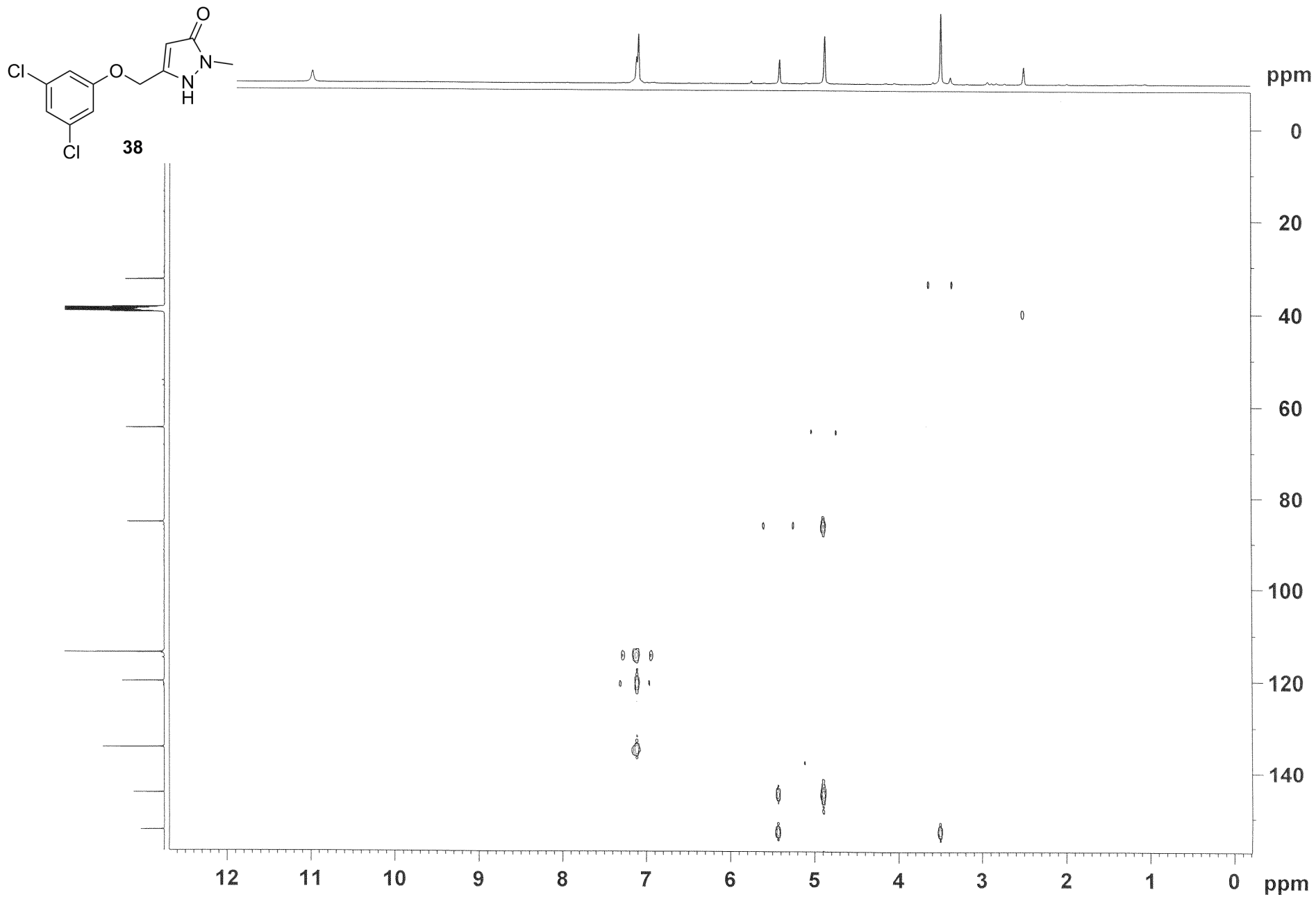
yz-IV30  
NU\_C13\_5mg DMSO



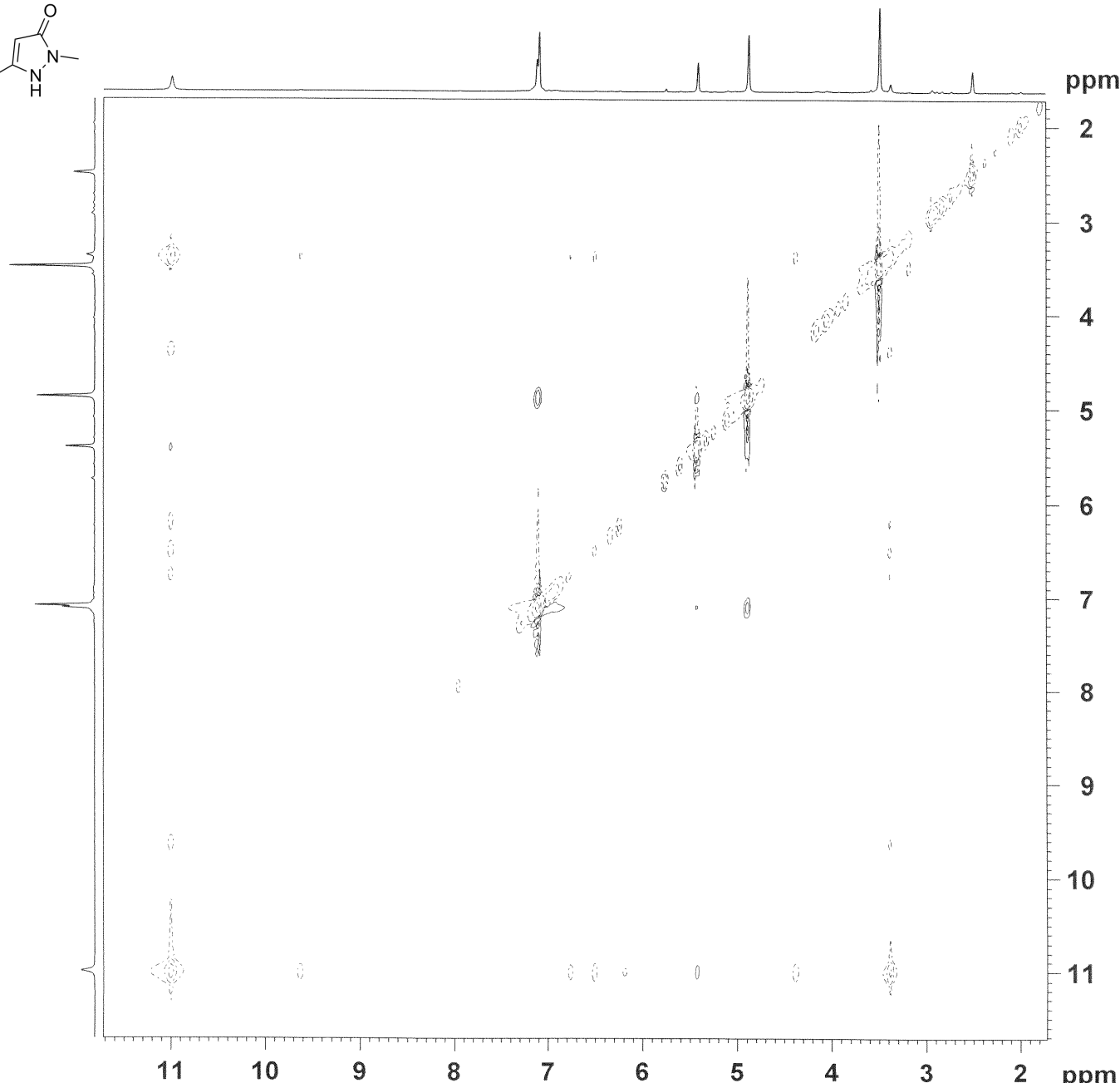
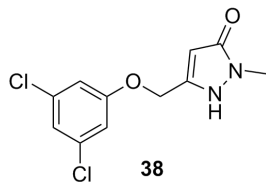
yz-IV30  
NU\_HSQC\_manualSW DMSO {E:\A-500\Silverman} yzh966 53



yz-IV30  
NU\_HMBC\_manualSW DMSO {E:\A-500\Silverman} yzh966 53



yz-IV30  
 NU\_NOESY\_manualSW DMSO {E:\A-500\Silverman} yzh966 53

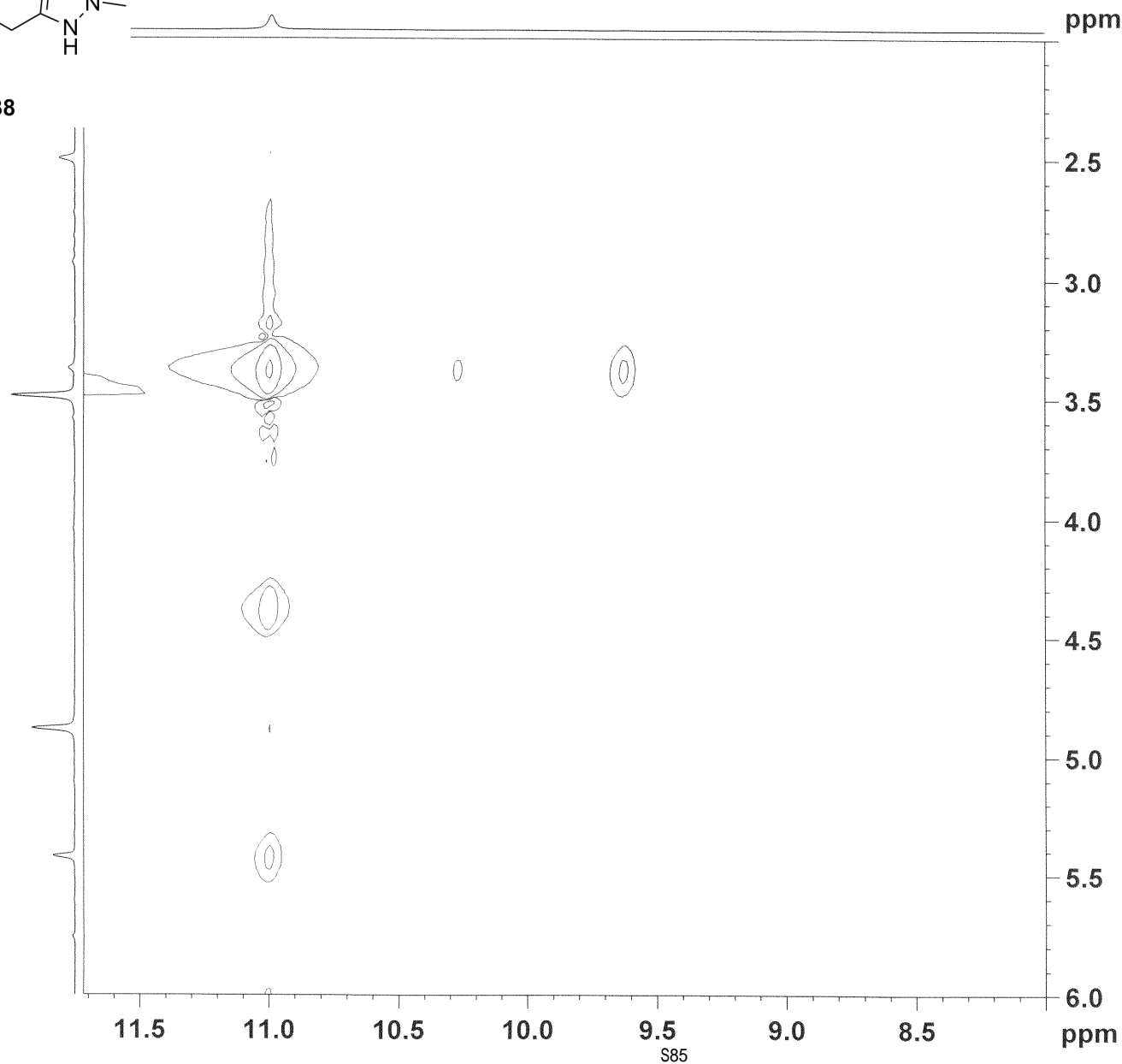
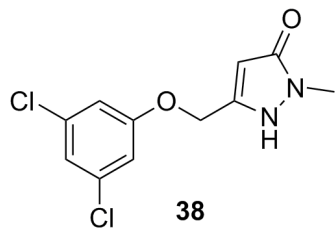


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 EXPNO 14  
 PROCNO 1  
 Date\_ 20121007  
 Time 17.59  
 INSTRUM spect  
 PROBHD 5 mm CPDCH 13C  
 PULPROG noesypph  
 TD 2048  
 SOLVENT DMSO  
 NS 16  
 DS 4  
 SWH 7500.000 Hz  
 FIDRES 3.662109 Hz  
 AQ 0.1365833 sec  
 RG 114  
 DW 66.667 usec  
 DE 35.00 usec  
 TE 298.2 K  
 D0 0.00005304 sec  
 D1 2.00000000 sec  
 D8 0.30000001 sec  
 D16 0.00020000 sec  
 IN0 0.00013335 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.70 usec  
 P2 21.40 usec  
 PL1 2.00 dB  
 PL1W 15.80138493 W  
 SFO1 500.1323022 MHz

===== GRADIENT CHANNEL =====  
 GPNAM1 SINE.100  
 GPZ1 80.00 %  
 P16 1000.00 usec  
 ND0 1  
 TD 256  
 SFO1 500.1323 MHz  
 FIDRES 29.296875 Hz  
 SW 14.996 ppm  
 FnMODE States-TPPI  
 SI 1024  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0  
 PC 1.40  
 SI 1024  
 MC2 States-TPPI  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0

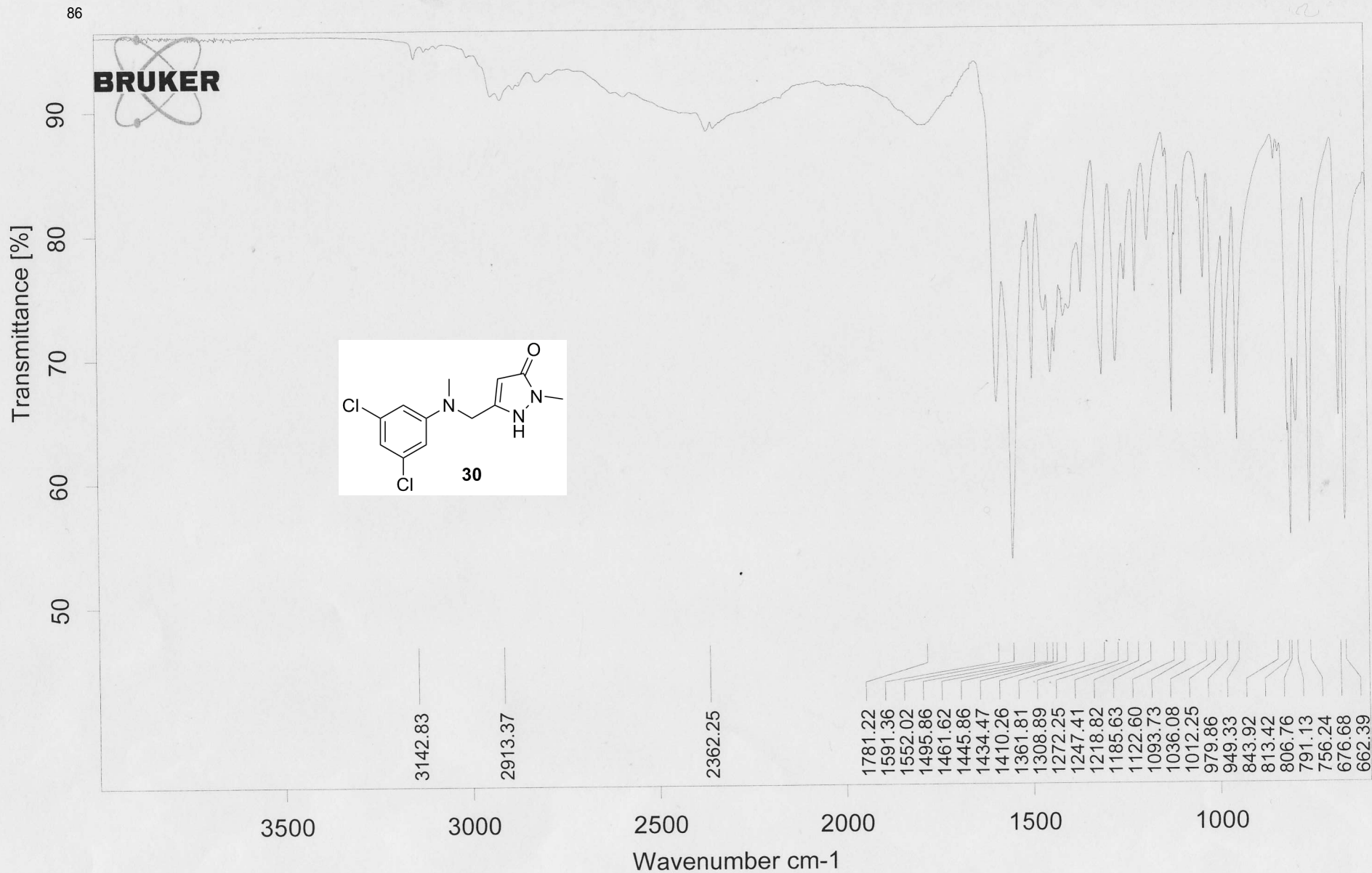
yz-IV30  
 NU\_NOESY\_manualSW DMSO {E:\A-500\Silverman} yzh966 53



NAME yz-IV30  
 EXPNO 14  
 PROCNO 1  
 Date\_ 20121007  
 Time\_ 17.59  
 INSTRUM spect  
 PROBHD 5 mm CPDCH 13C  
 PULPROG noesygpph  
 TD 2048  
 SOLVENT DMSO  
 NS 16  
 DS 4  
 SWH 7500.000 Hz  
 FIDRES 3.662109 Hz  
 AQ 0.1365833 sec  
 RG 114  
 DW 66.667 usec  
 DE 35.00 usec  
 TE 298.2 K  
 D0 0.00005304 sec  
 D1 2.00000000 sec  
 D8 0.30000001 sec  
 D16 0.00020000 sec  
 IN0 0.00013335 sec

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.70 usec  
 P2 21.40 usec  
 PL1 2.00 dB  
 PL1W 15.80138493 W  
 SFO1 500.1323022 MHz

===== GRADIENT CHANNEL =====  
 GPNAM1 SINE.100  
 GPZ1 80.00 %  
 P16 1000.00 usec  
 ND0 1  
 TD 256  
 SFO1 500.1323 MHz  
 FIDRES 29.296875 Hz  
 SW 14.996 ppm  
 FnMODE States-TPPI  
 SI 1024  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0  
 PC 1.40  
 SI 1024  
 MC2 States-TPPI  
 SF 500.1300000 MHz  
 WDW QSINE  
 SSB 2  
 LB 0.00 Hz  
 GB 0

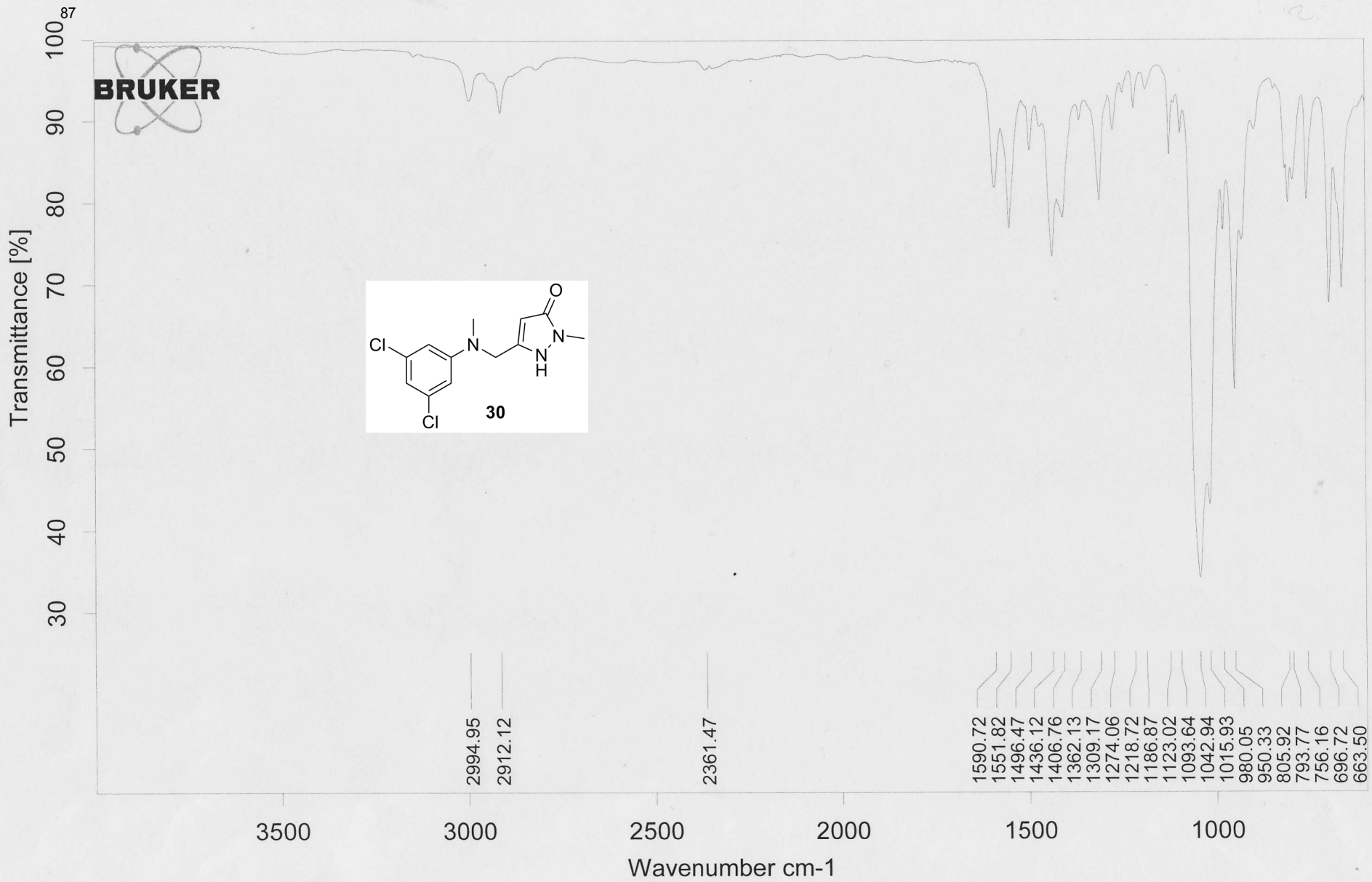


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YZ-II25(solid)

Instrument type and / or accessory

04/10/2012



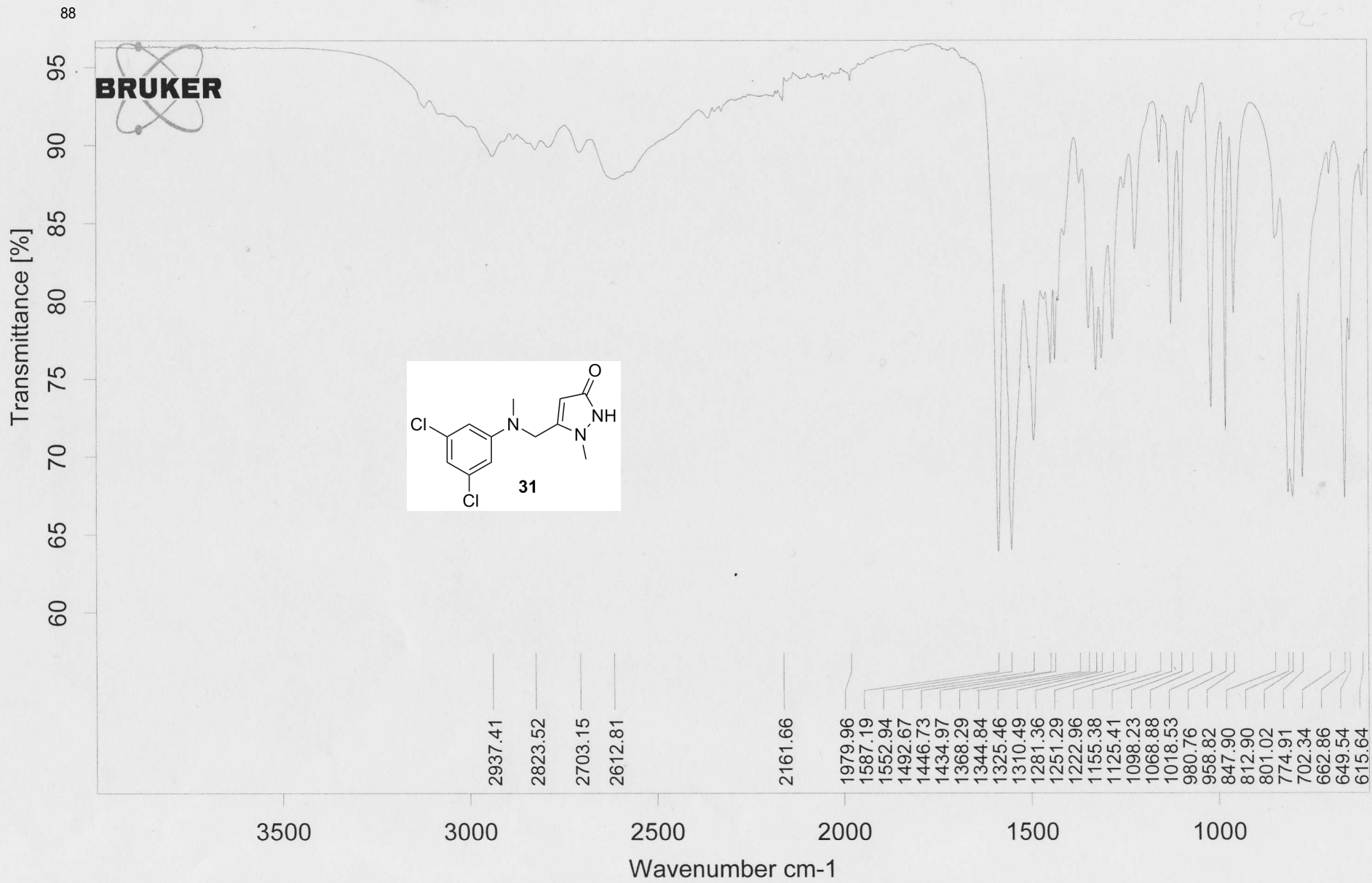
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YZ-II25(DMSO)

Instrument type and / or accessory

04/10/2012





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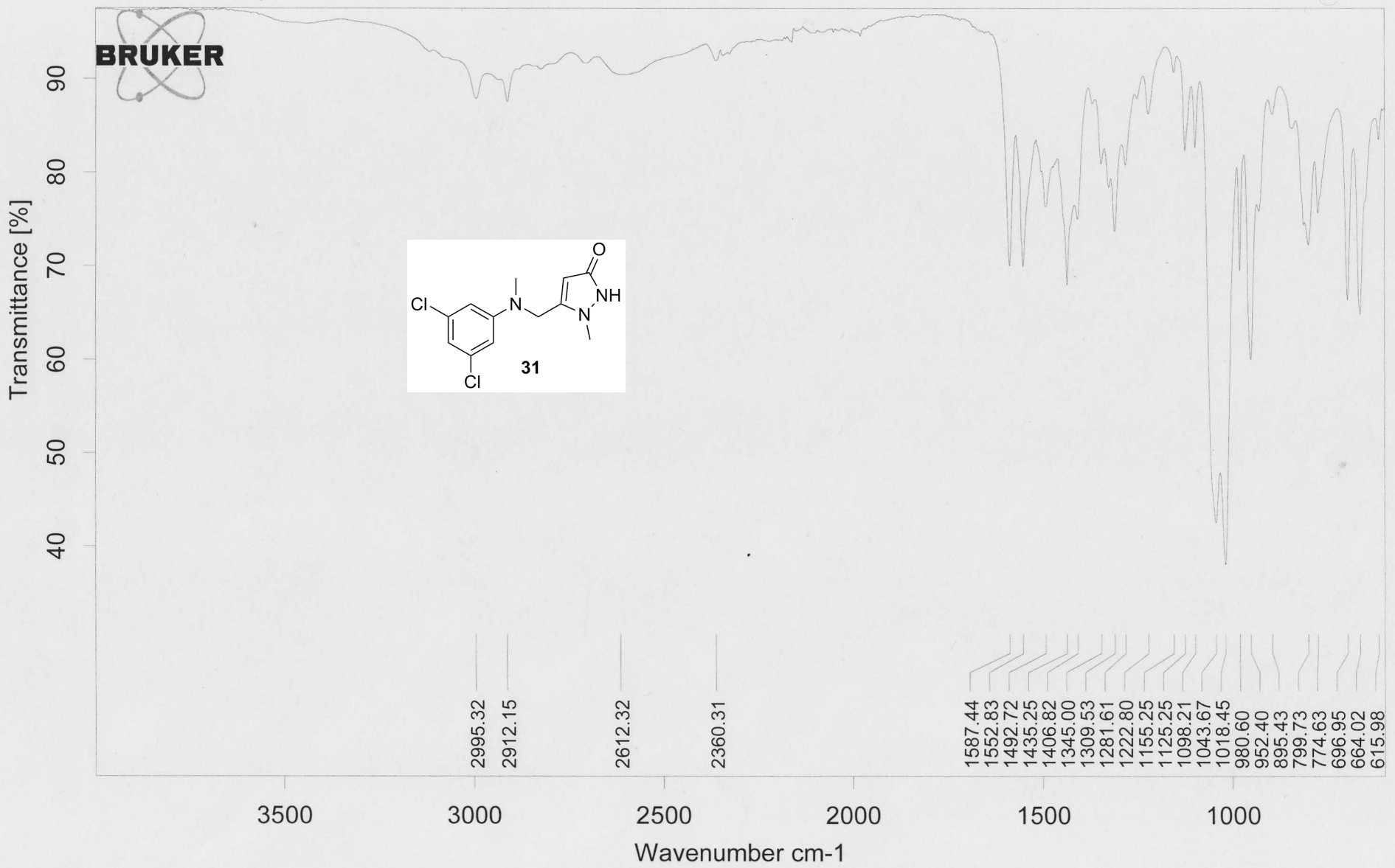
YZ-II94(solid)

Instrument type and / or accessory

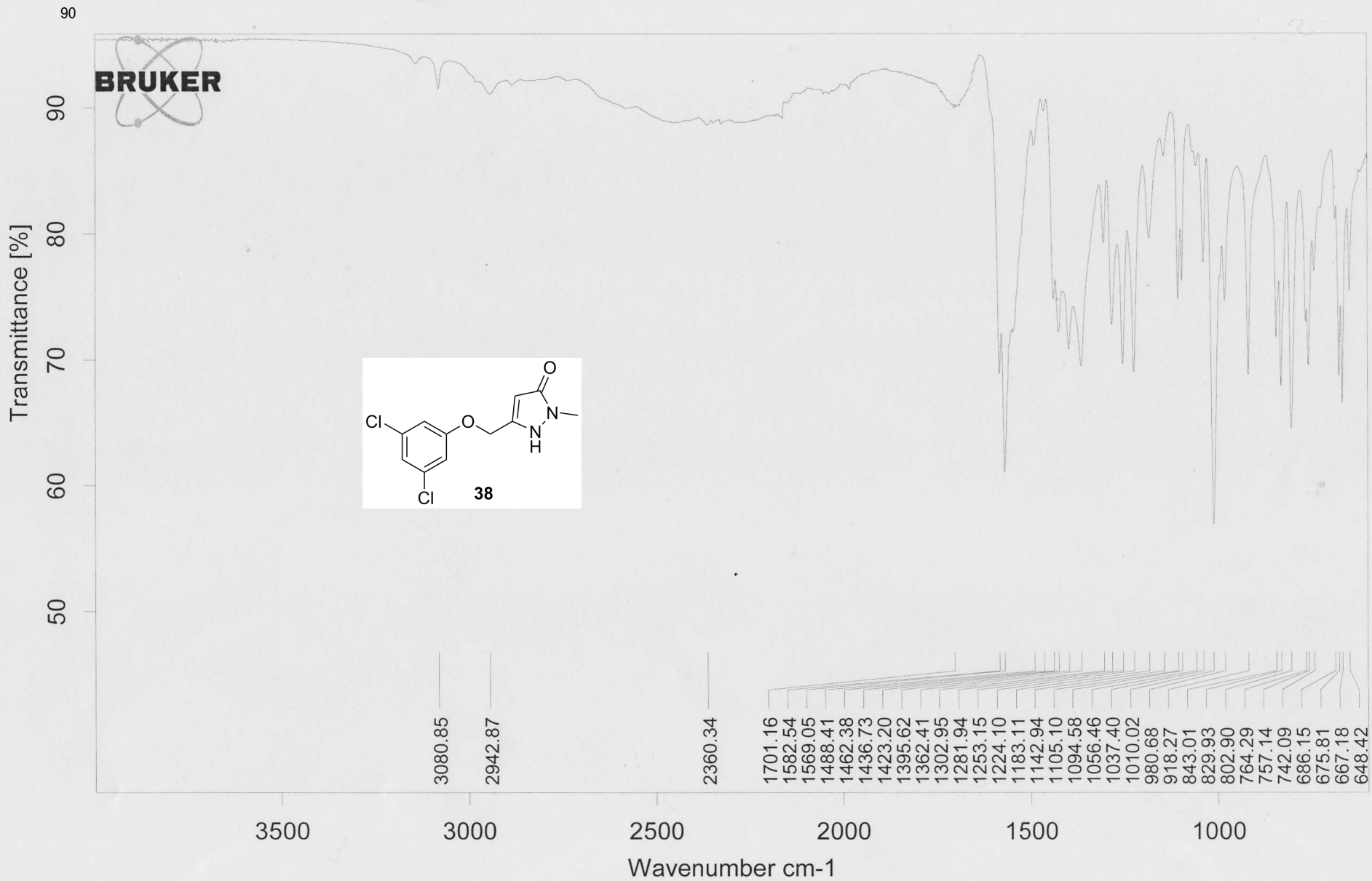
04/10/2012



BRUKER



C:\Program Files\OPUS_65\Data\Silverman\YZ-II94(DMSO).0	YZ-II94(DMSO)	Instrument type and / or accessory	04/10/2012
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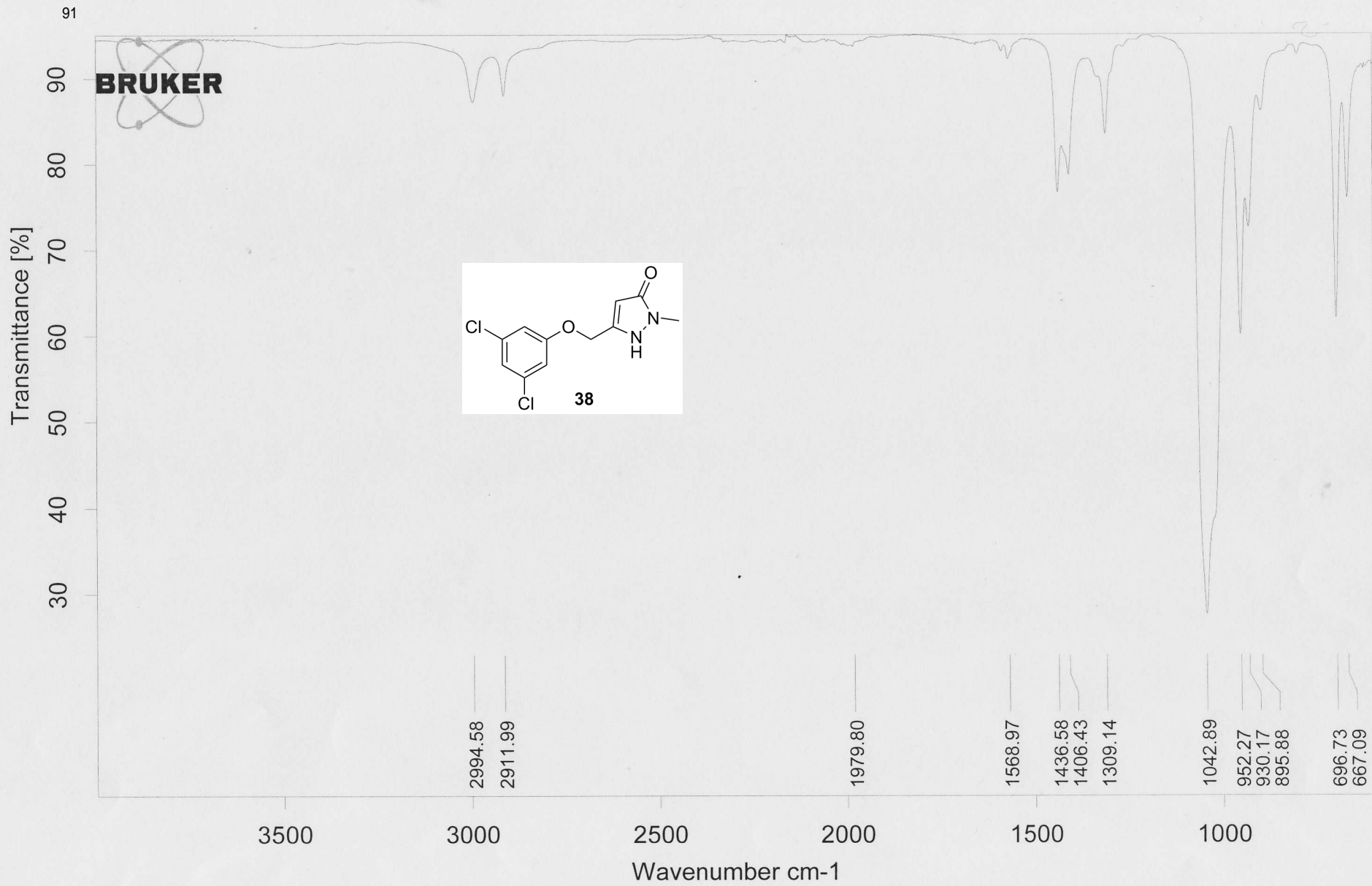


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yz-IV30

Instrument type and / or accessory

08/10/2012



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yz-IV30(DMSO)

Instrument type and / or accessory

08/10/2012

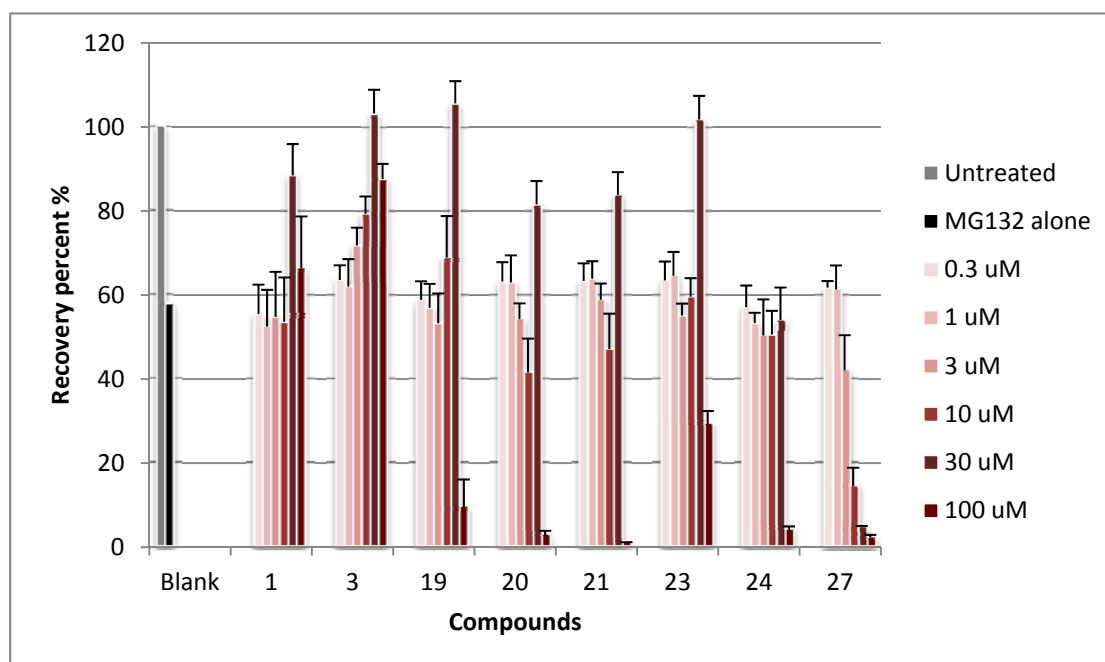


Figure 1. Qualitative primary cortical neurons protection assay.<sup>1</sup>

Table 1. EC<sub>50</sub> and viability of compounds **1-38**.

Compounds	EC <sub>50</sub> <sup>a</sup> (μM)	Viability (%)	Compounds	EC <sub>50</sub> (μM)	Viability (%)
1	0.40	103.1	2	0.78	117.6
3	0.57	100.1	4	0.75	102.8
5	0.81	111.7	6	1.27	95.6
7	1.40	103.9	8	0.83	104.9
9	0.71	104.9	10	0.75	105.6
11	1.20	101.2	12	0.83	102.6
13	0.31	105.5	14	0.42	100.3
15	0.29	106.6	16	0.35	101.5
17	0.61	110.6	18	1.27	104.7
19	0.53	113.2	20	0.69	114.6
21	1.31	119.4	22	1.02	113.2
23	1.19	104.9	24	1.45	103.6
25	1.06	98.0	26	0.80	103.7
27	1.45	96.2	28	0.65	105.7
29	0.49	106.2	30	0.75	98.4
31	>32	-	32	>32	-
33	>32	-	34	>32	-
38	0.67	101.7			

<sup>a</sup> An analog was considered to be inactive when EC<sub>50</sub> >32 μM.

<sup>1</sup> Zhang, Y.; Benmohamed, R.; Zhang, W.; Kim, J.; Edgerly, C. K.; Zhu, Y.; Morimoto, R. I.; Ferrante, R. J.; Kirsch, D. R.; Silverman, R. B. Chiral cyclohexane 1,3-diones as inhibitors of mutant SOD1-dependent protein aggregation for the treatment of amyotrophic lateral sclerosis. *ACS Med. Chem. Lett.* **2012**, *3*, 584-587.