

Figure S1. The dependences between the deviation of the C2 and C3 atom from the plane calculated through the C1/O1/C4 atoms ( $d_{(C1/O1/C4-C2)}$  - the shortest distance between the C2 atom and the above mentioned plane, noted as  $x$  in the equation;  $d_{(C1/O1/C4-C3)}$  - the shortest distance between the C3 atom and the above mentioned plane, noted as  $y$  in the equation).

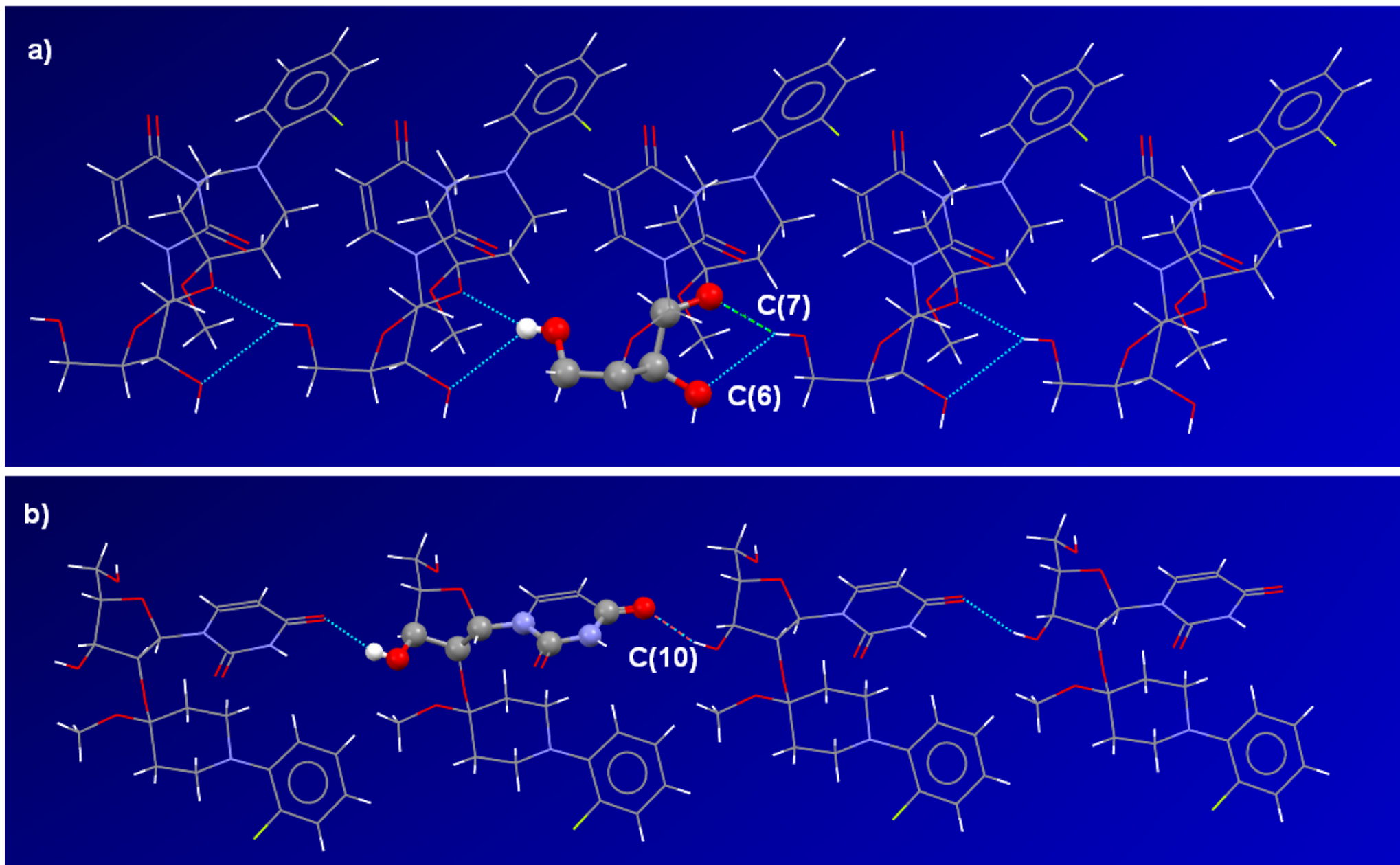
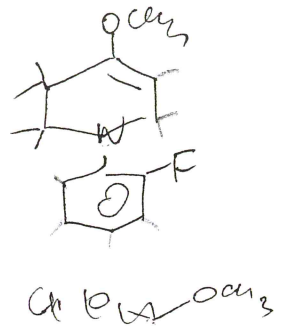
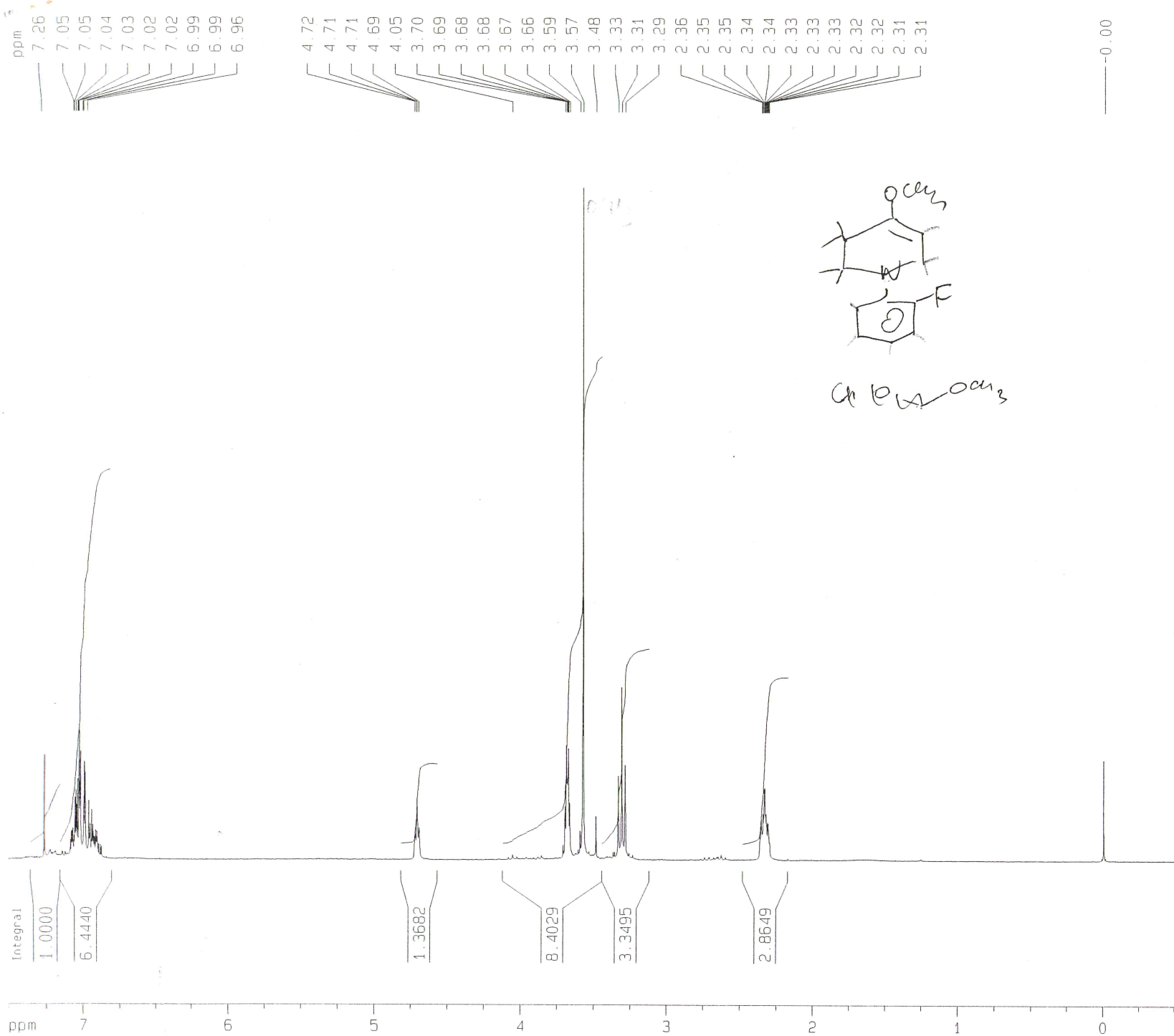


Figure S2. A part of the molecular packing of (I), showing: a) the hydrogen bond C(6) and C(7) motifs, b) the hydrogen bond C(10) motif. Intermolecular hydrogen bonds are indicated by dashed lines.



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Current Data Parameters  
 NAME Rees-36  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20020121  
 Time 11.28  
 INSTRUM spect  
 PROBHD 5 mm QNP 1H/1  
 PULPROG zg30  
 TD 32768  
 SOLVENT CDC13  
 NS 32  
 DS 4  
 SWH 3742.515 Hz  
 FIDRES 0.114212 Hz  
 AQ 4.3778548 sec  
 RG 912.3  
 DW 133.600 usec  
 DE 15.00 usec  
 TE 300.0 K  
 D1 1.00000000 sec

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 P1 9.50 usec  
 PL1 -6.00 dB  
 SF01 250.1316258 MHz

F2 - Processing parameters  
 SI 32768  
 SF 250.1300070 MHz  
 WDW EM  
 SSB 0  
 LB 0.05 Hz  
 GB 0  
 PC 1.00

1D NMR plot parameters  
 CX 21.50 cm  
 CY 12.50 cm  
 F1P 7.500 ppm  
 F1 1875.98 Hz  
 F2P -0.500 ppm  
 F2 -125.07 Hz  
 PPMCM 0.37209 ppm/cm  
 HZCM 93.07163 Hz/cm

Figure S3. The <sup>1</sup>H NMR spectrum of the 1-(2-fluorophenyl)-4-methoxy-1,2,5,6-tetrahydropyridine

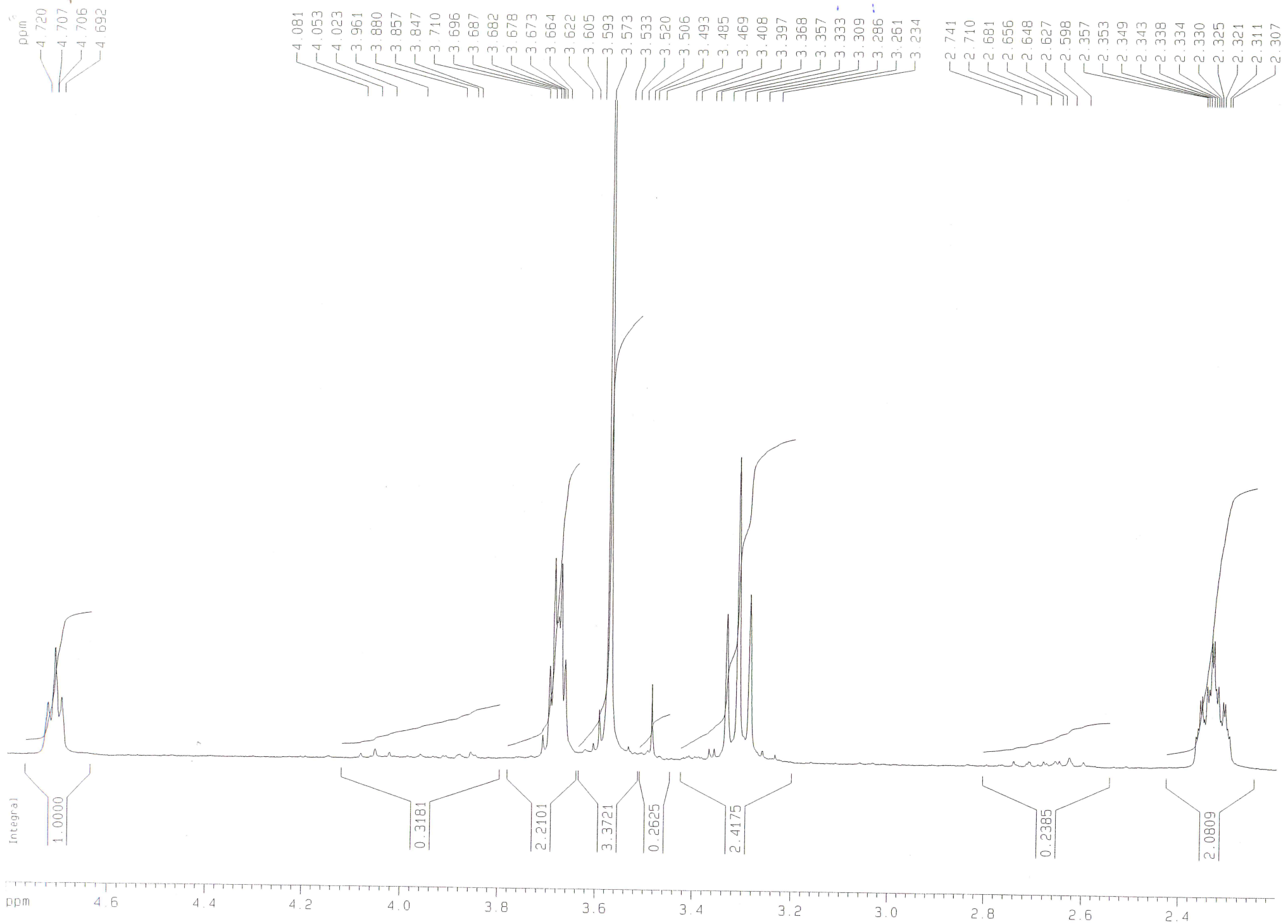
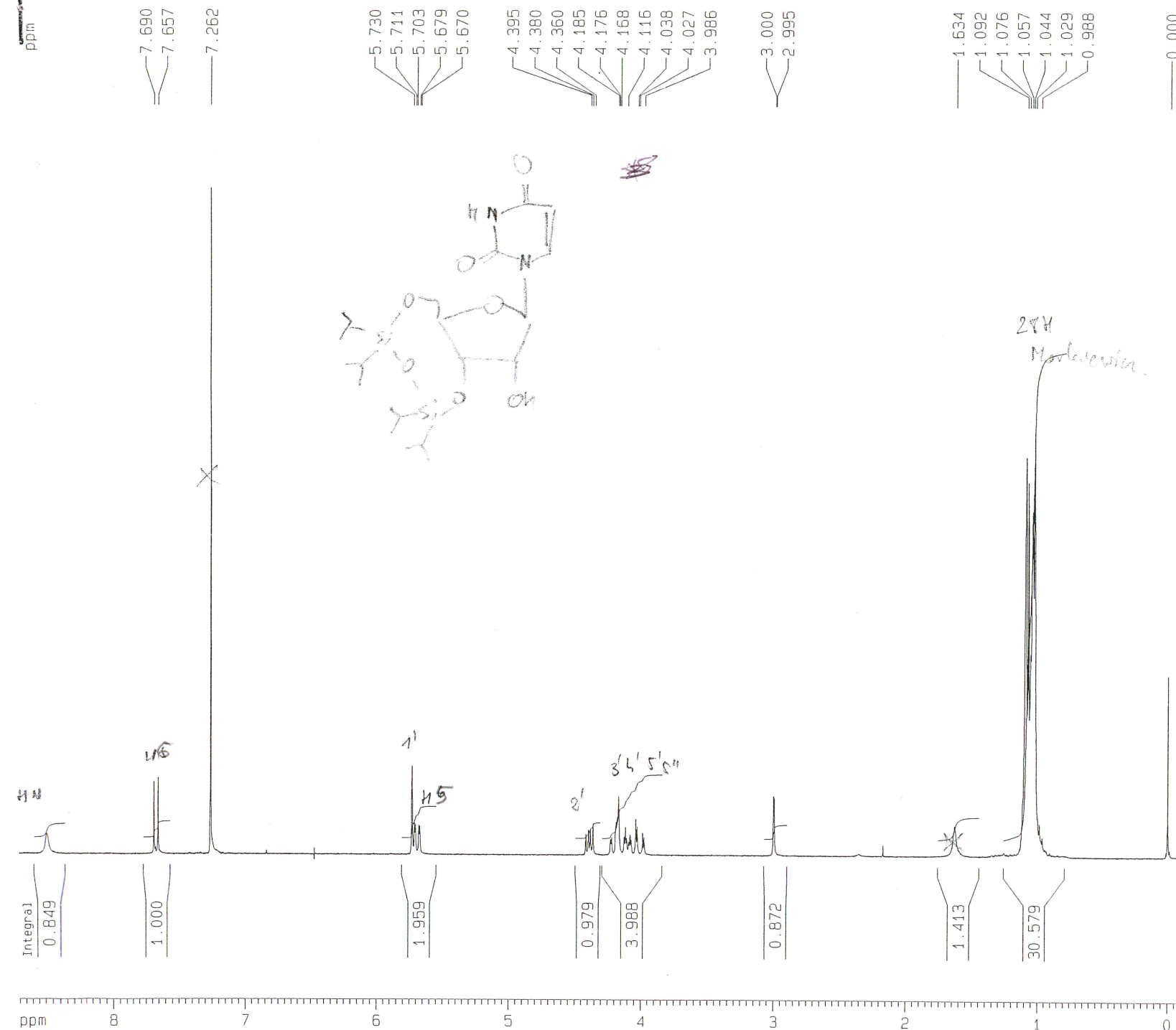


Figure S4. The enlarged part of the  $^1\text{H}$  NMR spectrum of the 1-(2-fluorophenyl)-4-methoxy-1,2,5,6-tetrahydropyridine



Current Data Parameters

NAME MU-7  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters

Date\_ 20020306  
Time 17.07  
INSTRUM spect  
PROBHD 5 mm QNP 1H/1  
PULPROG zg30  
TD 32768  
SOLVENT CDCl3  
NS 24  
DS 4  
SWH 3742.515 Hz  
FIDRES 0.114212 Hz  
AQ 4.3778548 sec  
RG 812.7  
DW 133.600 usec  
DE 15.00 usec  
TE 300.0 K  
D1 1.00000000 sec

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

NUC1 1H  
P1 9.50 usec  
PL1 -6.00 dB  
SF01 250.1316258 MHz

F2 - Processing parameters

SI 32768  
SF 250.1300065 MHz  
WDW EM  
SSB 0  
LB 0.05 Hz  
GB 0  
PC 1.00

1D NMR plot parameters

CX 21.50 cm  
CY 12.50 cm  
F1P 8.708 ppm  
F1 2178.01 Hz  
F2P -0.135 ppm  
F2 -33.89 Hz  
PPMCM 0.41130 ppm/cm  
HZCM 102.87902 Hz/cm

Figure S5. The <sup>1</sup>H NMR spectrum of the 3',5'-O-(1,1,3,3-tetraisopropylidisiloxan-1,3-diyl)--D-[1'(R),2'(R),3'(R),4'(R)]juridine

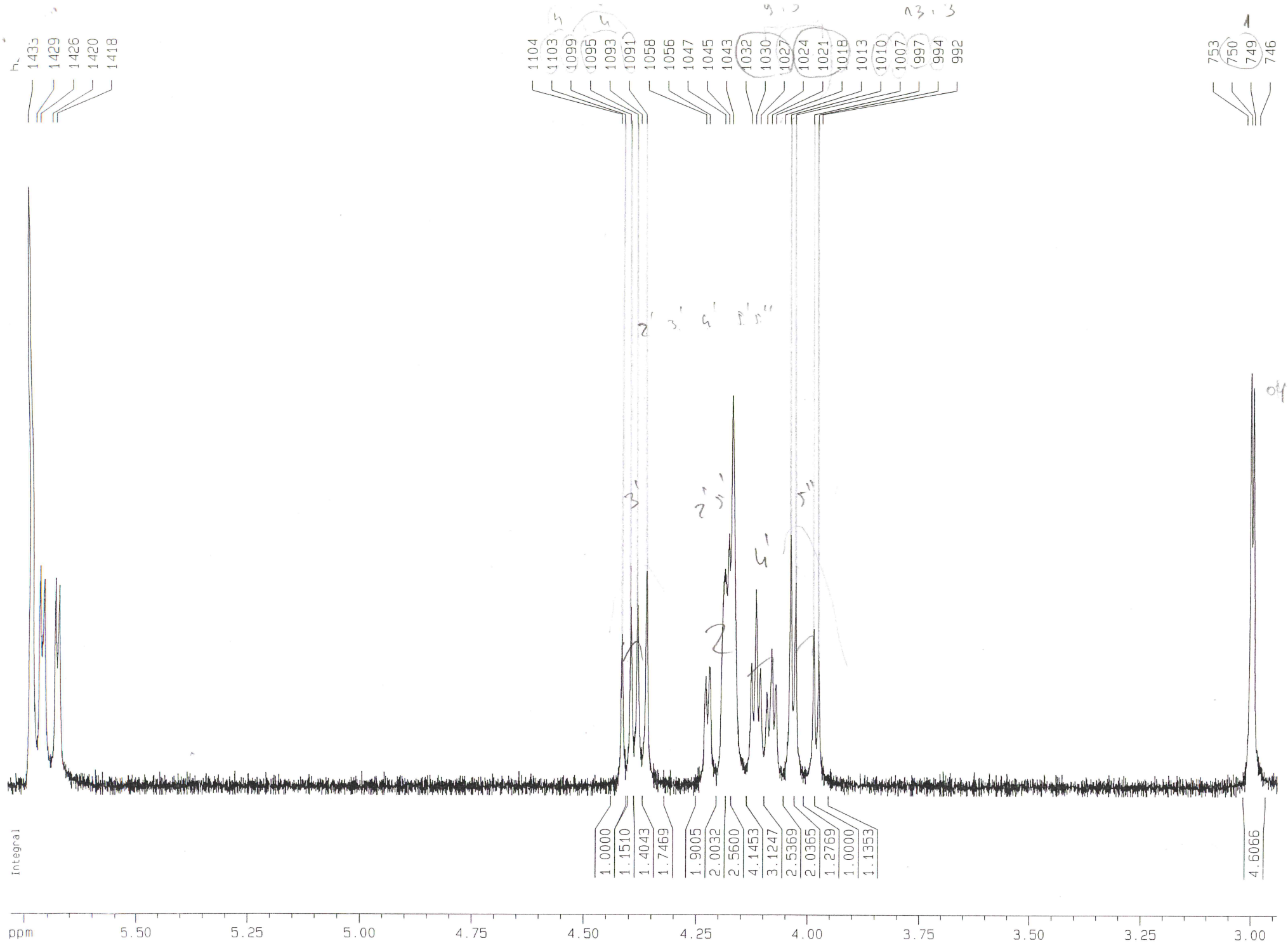


Figure S6. The enlarged part of the <sup>1</sup>H NMR spectrum of the 3',5'-O-(1,1,3,3-tetraisopropylidisiloxan-1,3-diyl)-β-D-[1'(R),2'(R),3'(R),4'(R)]uridine

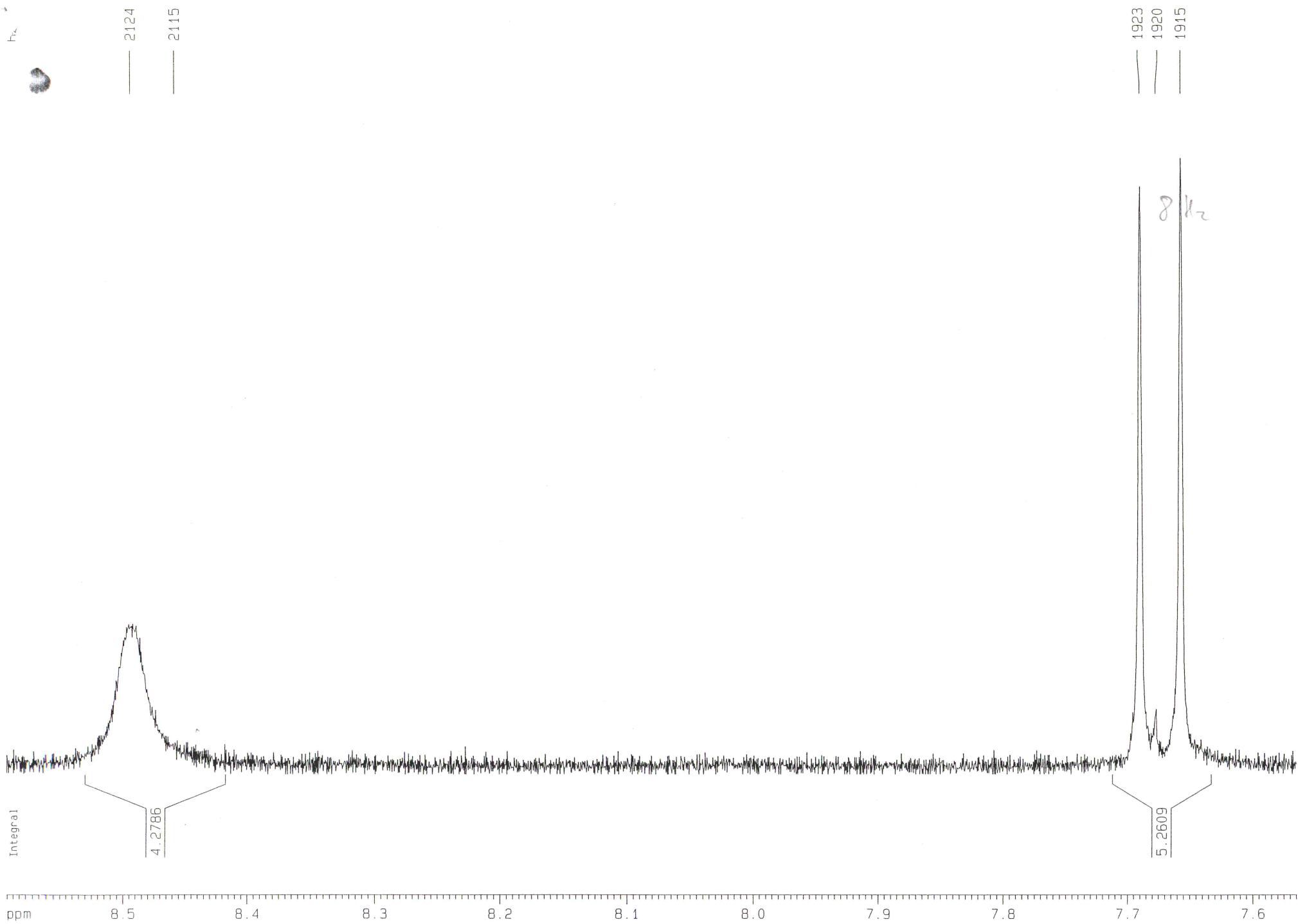
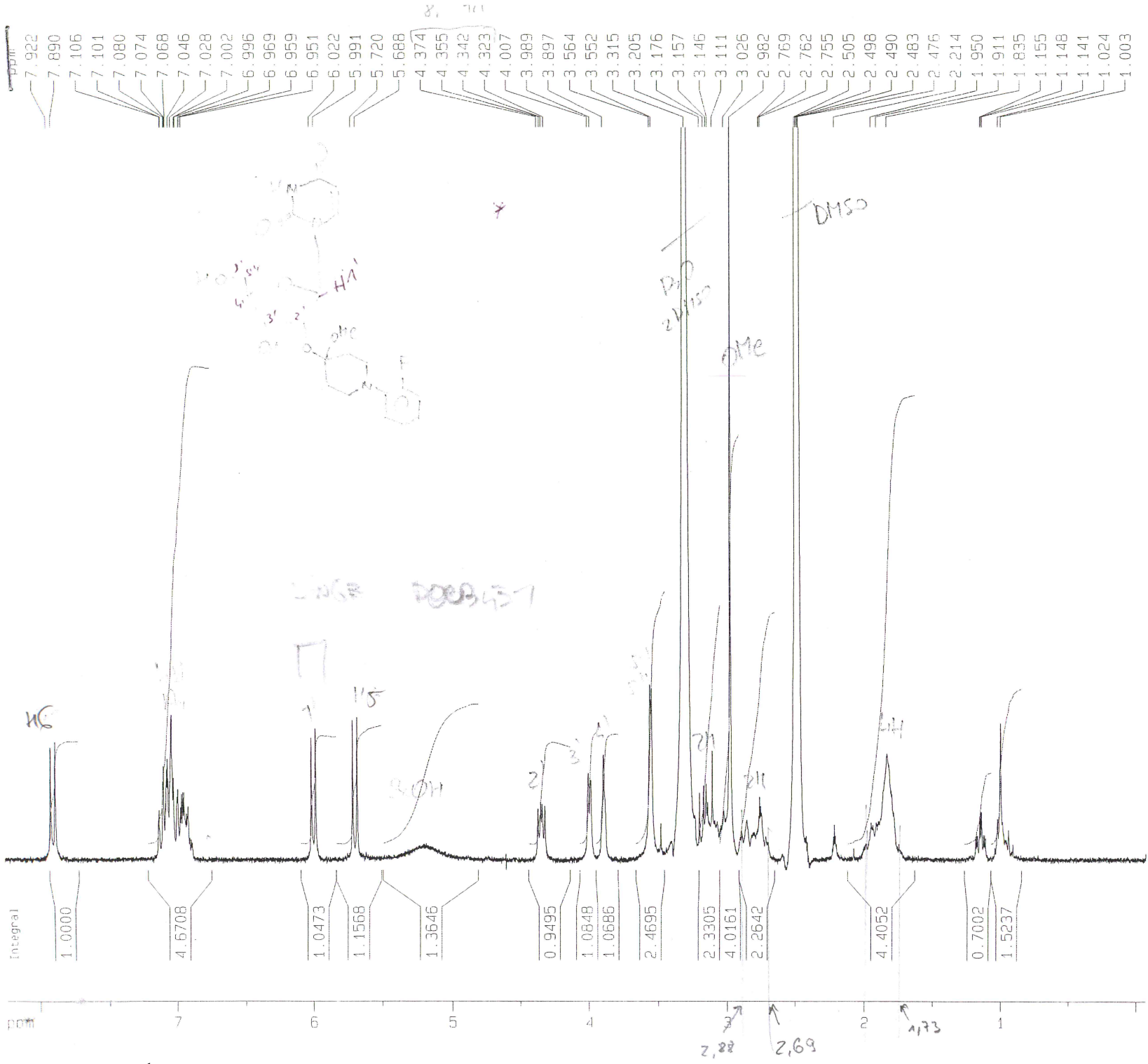


Figure S7. The enlarged part of the <sup>1</sup>H NMR spectrum of the 3',5'-O-(1,1,3,3-tetraisopropylidisiloxan-1,3-diyl)-β-D-[1'(R),2'(R),3'(R),4'(R)]juridine



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Current Data Parameters  
 NAME FpmpU-63  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
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 Time 16.48  
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 TD 32768  
 SOLVENT DMSO  
 NS 32  
 DS 4  
 SWH 3742.515 Hz  
 FIDRES 0.114212 Hz  
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 RG 574.7  
 DW 133.600 usec  
 DE 15.00 usec  
 TE 300.0 K  
 D1 1.00000000 sec

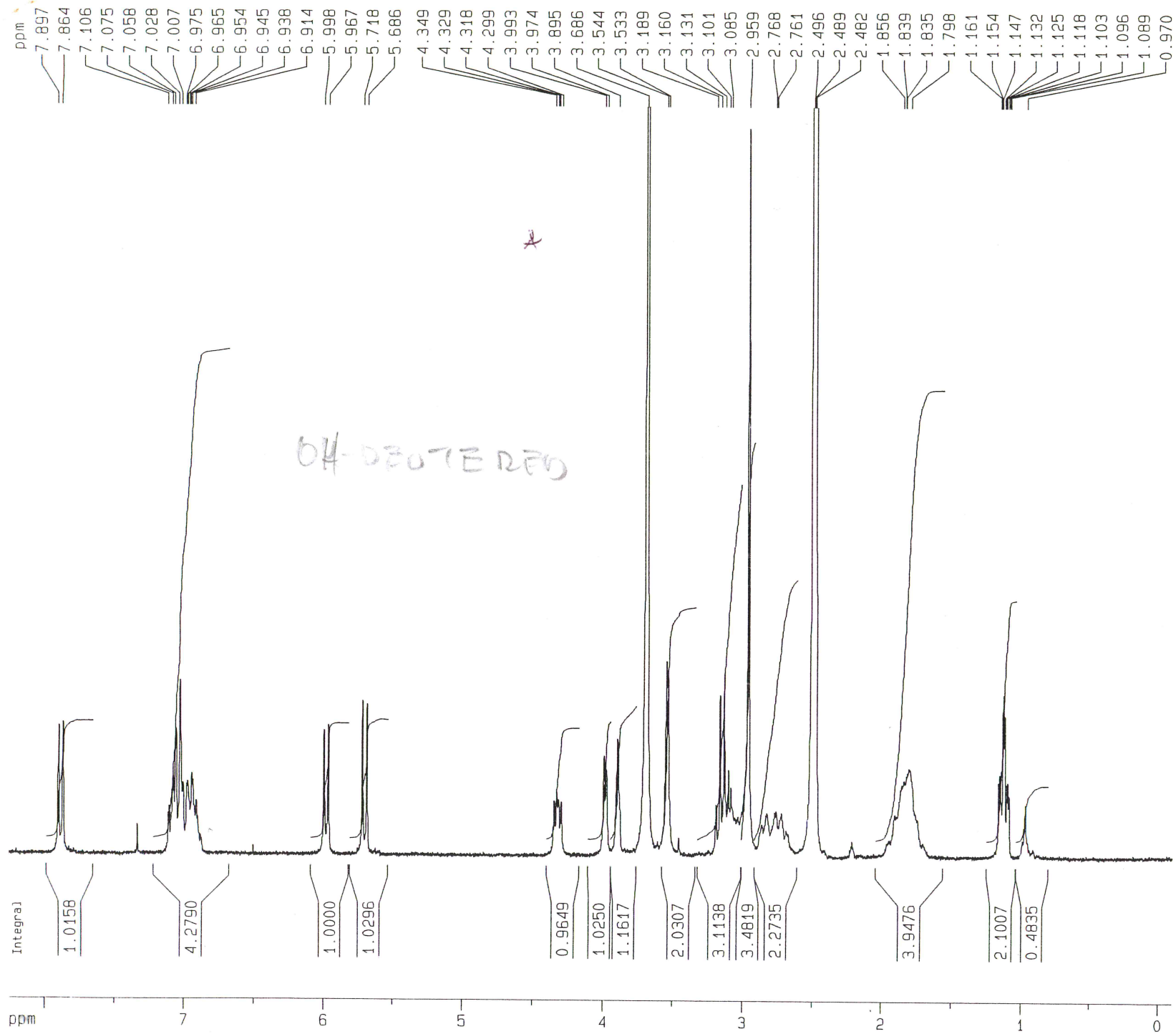
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 P1 8.00 usec  
 PL1 -6.00 dB  
 SF01 250.1311585 MHz

F2 - Processing parameters  
 SI 32768  
 SF 250.1300057 MHz  
 WDW EM  
 SSB 0  
 LB 0.05 Hz  
 GB 0  
 PC 1.00

1D NMR plot parameters  
 CX 21.50 cm  
 CY 100.00 cm  
 F1P 8.243 ppm  
 F1 2061.89 Hz  
 F2P -0.073 ppm  
 F2 -18.30 Hz  
 PPMCM 0.38681 ppm/cm  
 HZCM 96.75275 Hz/cm

Figure S8. The <sup>1</sup>H NMR spectrum of the 2'-O-[1-(2-fluorophenyl)-4-metoxypiperidin-1-yl]-β-D-[1'(R),2'(R),3'(R),4'(R)]uridine (I)





W.Czestkowski

Current Data Parameters  
NAME FmpU-129  
EXPNO 1  
PROCNO 1

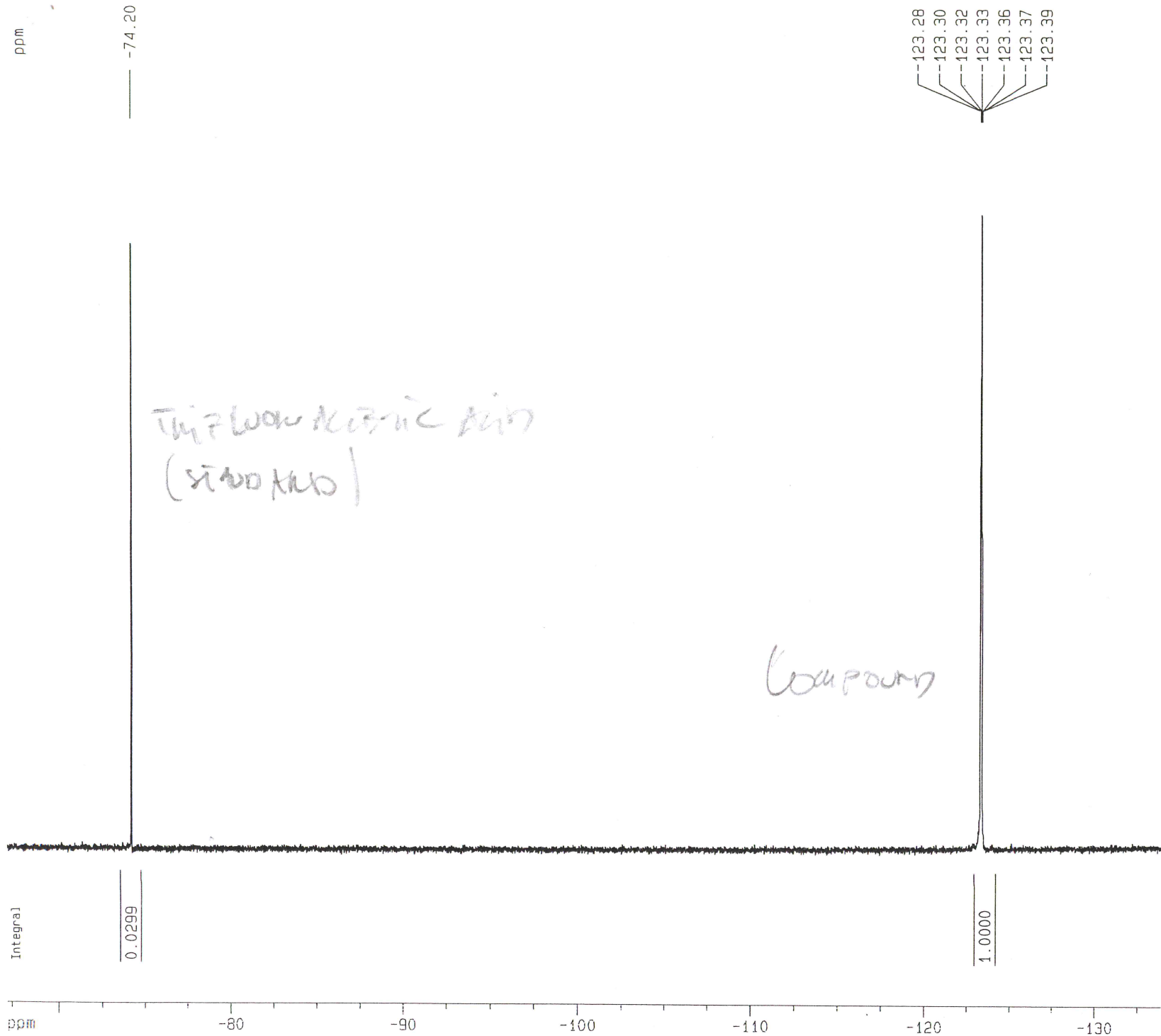
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Time 19.13  
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PULPROG zg30  
TD 32768  
SOLVENT DMSO  
NS 32  
DS 4  
SWH 3742.515 Hz  
FIDRES 0.114212 Hz  
AQ 4.3778548 sec  
RG 812.7  
DW 133.600 usec  
DE 15.00 usec  
TE 296.2 K  
D1 1.00000000 sec  
MCREST 0.00000000 sec  
MCWRK 0.01500000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 9.50 usec  
PL1 -6.00 dB  
SF01 250.1316258 MHz

F2 - Processing parameters  
SI 32768  
SF 250.1299981 MHz  
WDW EM  
SSB 0  
LB 0.05 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 21.50 cm  
CY 50.00 cm  
F1P 8.251 ppm  
F1 2063.78 Hz  
F2P -0.102 ppm  
F2 -25.49 Hz  
PPMCM 0.38850 ppm/cm  
HZCM 97.17527 Hz/cm

Figure S9. The  $^1\text{H}$  NMR spectrum of the (I) with deuterated OH group



Current Data Parameters  
 NAME FmpU-129  
 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20040114  
 Time 19.02  
 INSTRUM spect  
 PROBHD 5 mm QNP 1H/1  
 PULPROG zg  
 TD 131072  
 SOLVENT DMSO  
 NS 58  
 DS 4  
 SWH 75187.969 Hz  
 FIDRES 0.573639 Hz  
 AQ 0.8716788 sec  
 RG 256  
 DW 6.650 usec  
 DE 10.00 usec  
 TE 296.2 K  
 D1 1.0000000 sec  
 MCREST 0.0000000 sec  
 MCWAK 0.0150000 sec

==== CHANNEL f1 =====  
 NUC1 19F  
 P1 9.50 usec  
 PL1 -6.00 dB  
 SFO1 235.3480407 MHz

F2 - Processing parameters  
 SI 65536  
 SF 235.3574723 MHz  
 WDW EM  
 SSB 0  
 LB 0.50 Hz  
 GB 0  
 PC 1.00

ID NMR plot parameters  
 CX 21.50 cm  
 CY 12.00 cm  
 F1P -67.212 ppm  
 F1 -15818.96 Hz  
 F2P -133.896 ppm  
 F2 -31513.53 Hz  
 PPMCM 3.10158 ppm/cm  
 HZCM 729.98022 Hz/cm

Figure S10. The <sup>19</sup>F NMR spectrum of the (I)

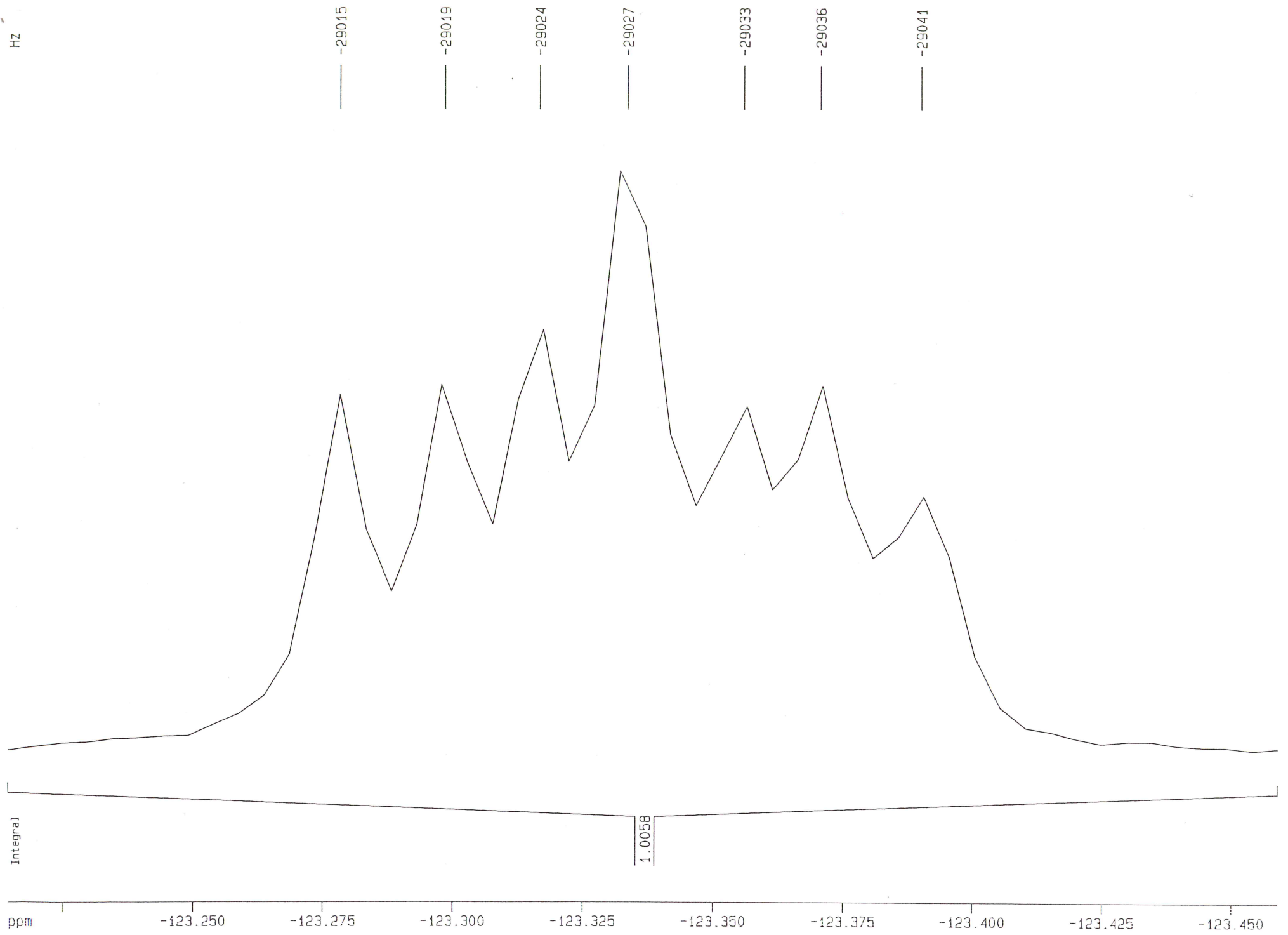


Figure S11. The enlarged part of the  $^{19}\text{F}$  NMR spectrum of the (I)