Electronic Supporting Information of the Manuscript: "*Highly Diastereoselective Formation of C_2-Symmetric Bis-Thioglycoside Pd(II) Complexes: The Role of the Exo Anomeric Effect*"

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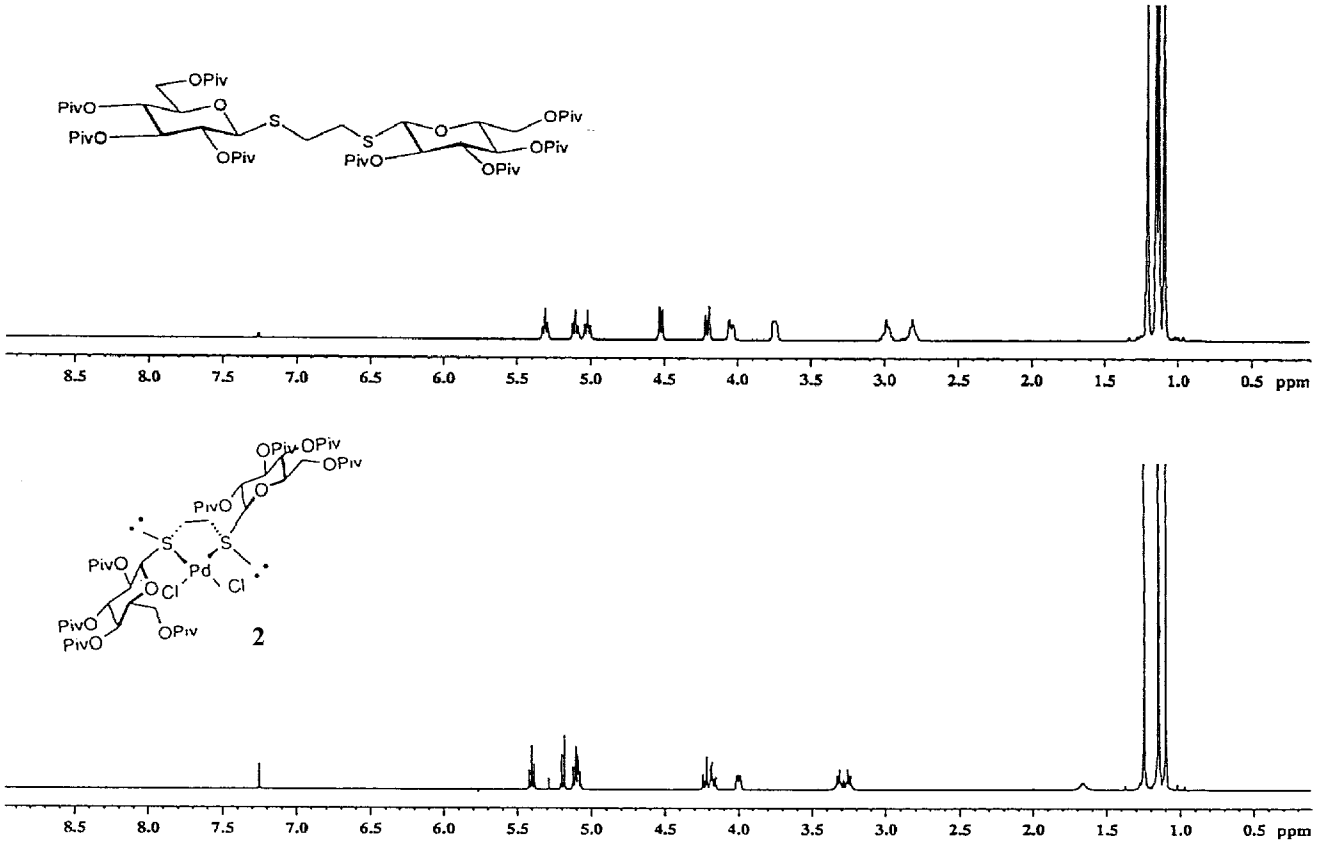
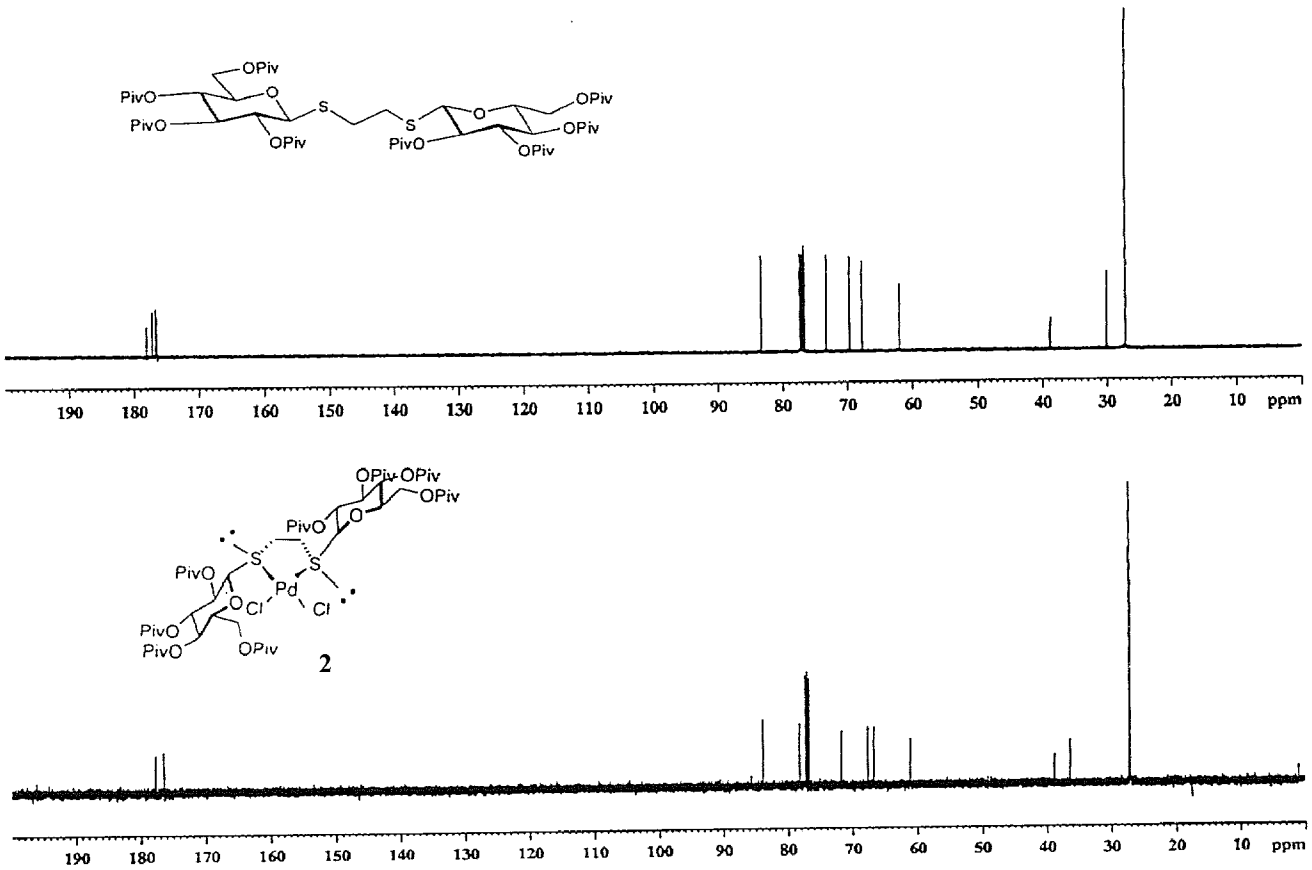
Contribution from the Instituto de Investigaciones Químicas, C.S.I.C-Universidad de Sevilla, c/. Américo Vespucio, s/n., Isla de la Cartuja, 41092 Sevilla, Spain and the Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad de Sevilla, 41012 Sevilla, Spain

-(i) Copies of ^{1}H (500 MHz) and the ^{13}C NMR (125 MHz) spectra of the Pd(II) complexes **2, 3, 6, 9** and **10,** together with the ^{1}H (500 MHz) and the ^{13}C NMR (125 MHz) of corresponding free ligands (10 pages)

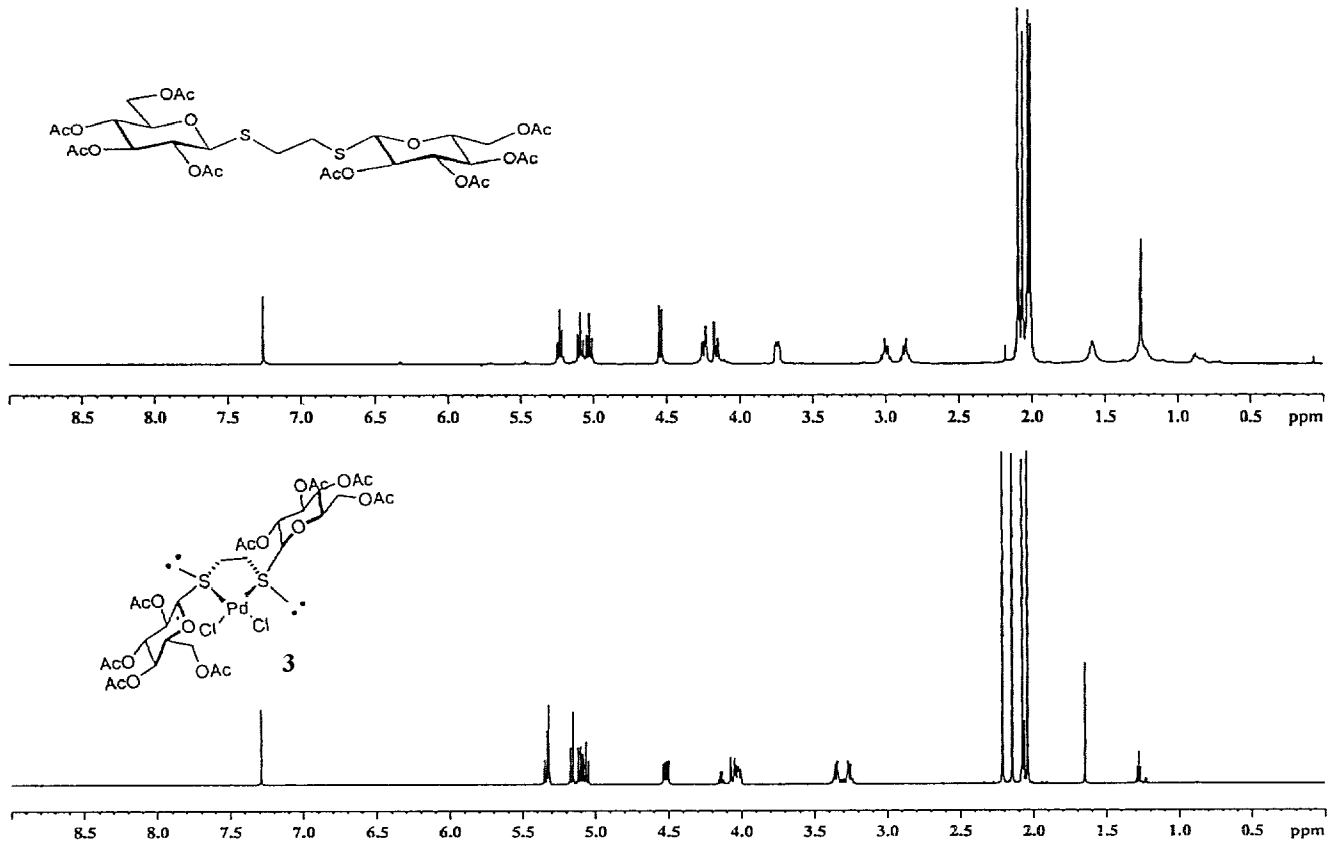
-(ii) Copies of the ^{1}H (500 MHz), 2D COSY DQF, and 2D NOESY of compound **2** in acetone d_6 (3 pages).



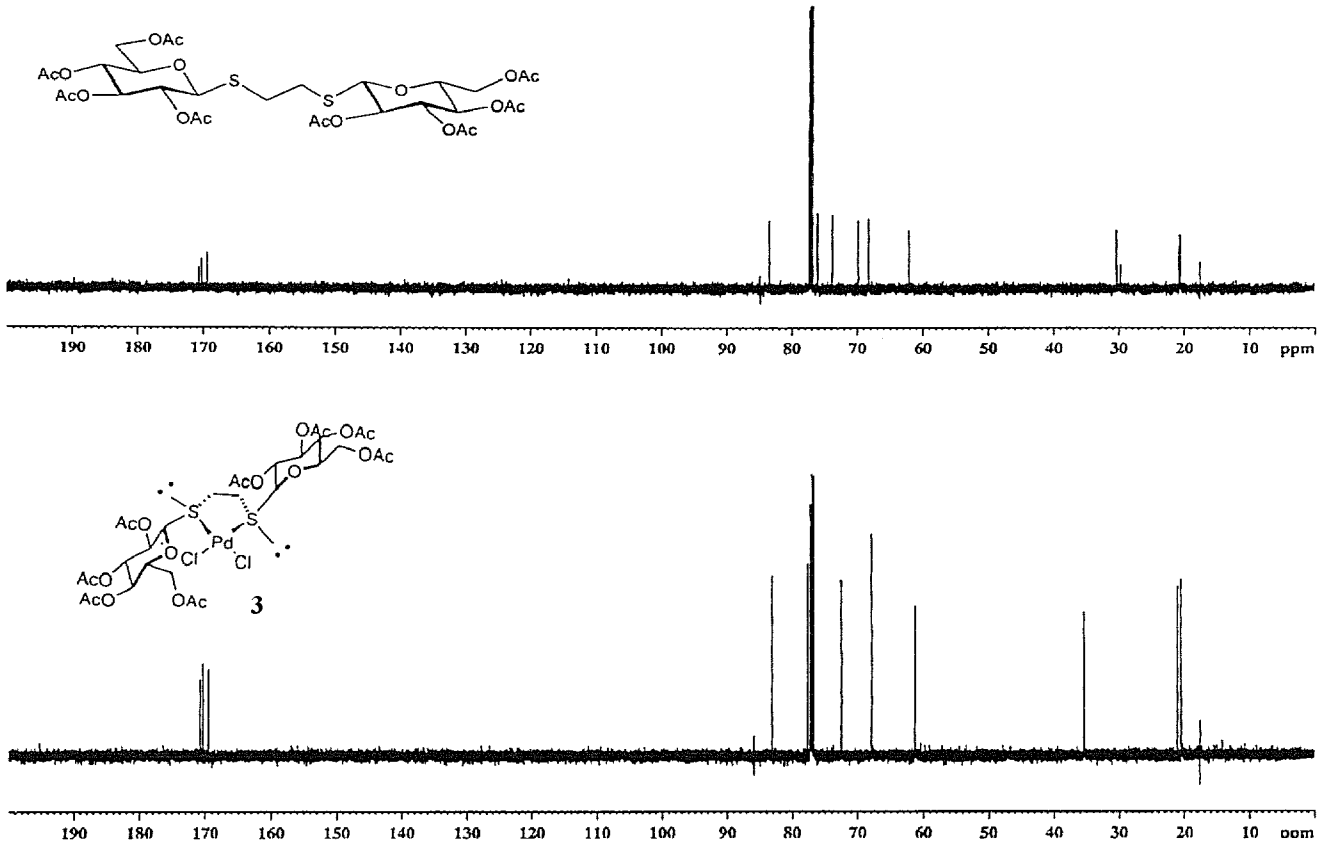
^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **2** and the corresponding free ligand



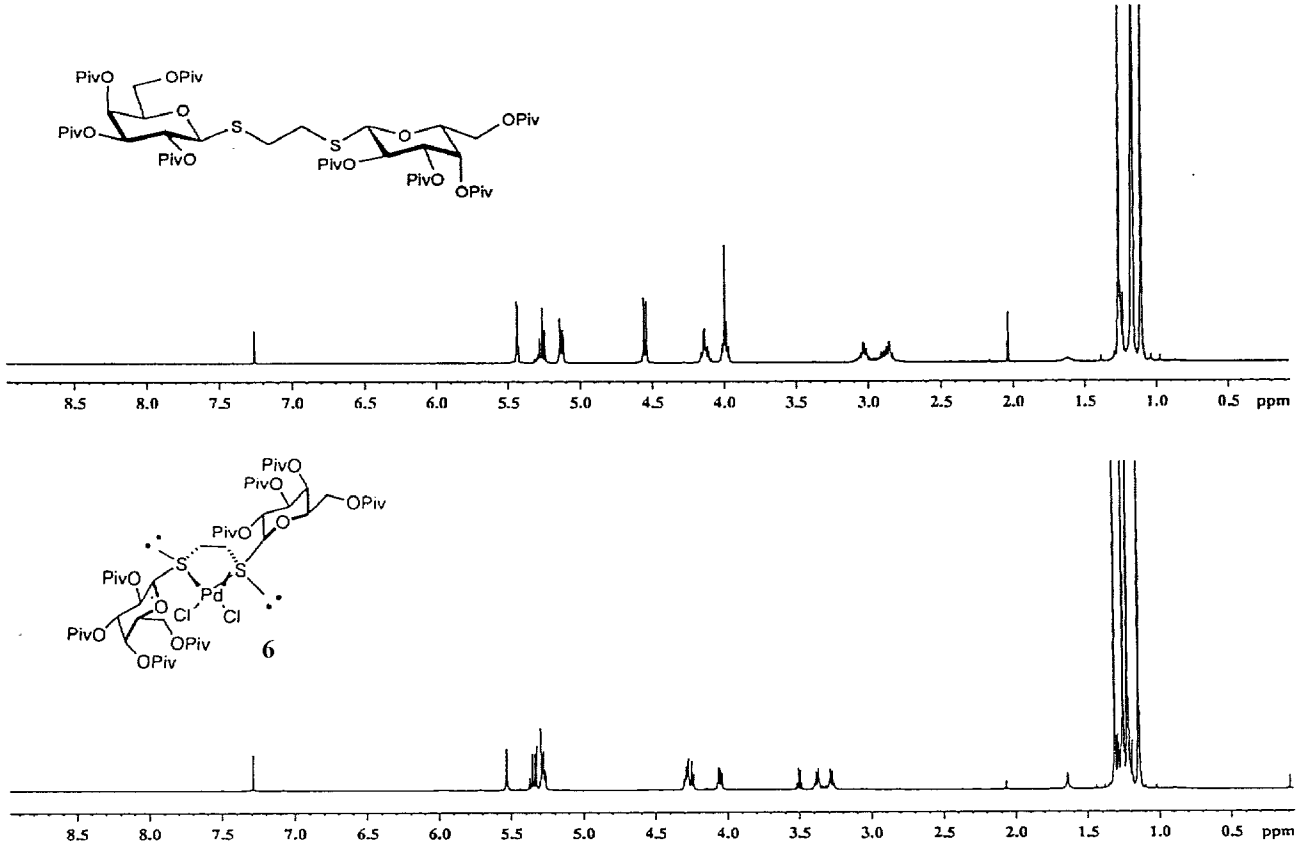
^{13}C-NMR (125 MHz, CDCl3) spectrum of **2** and the corresponding free ligand



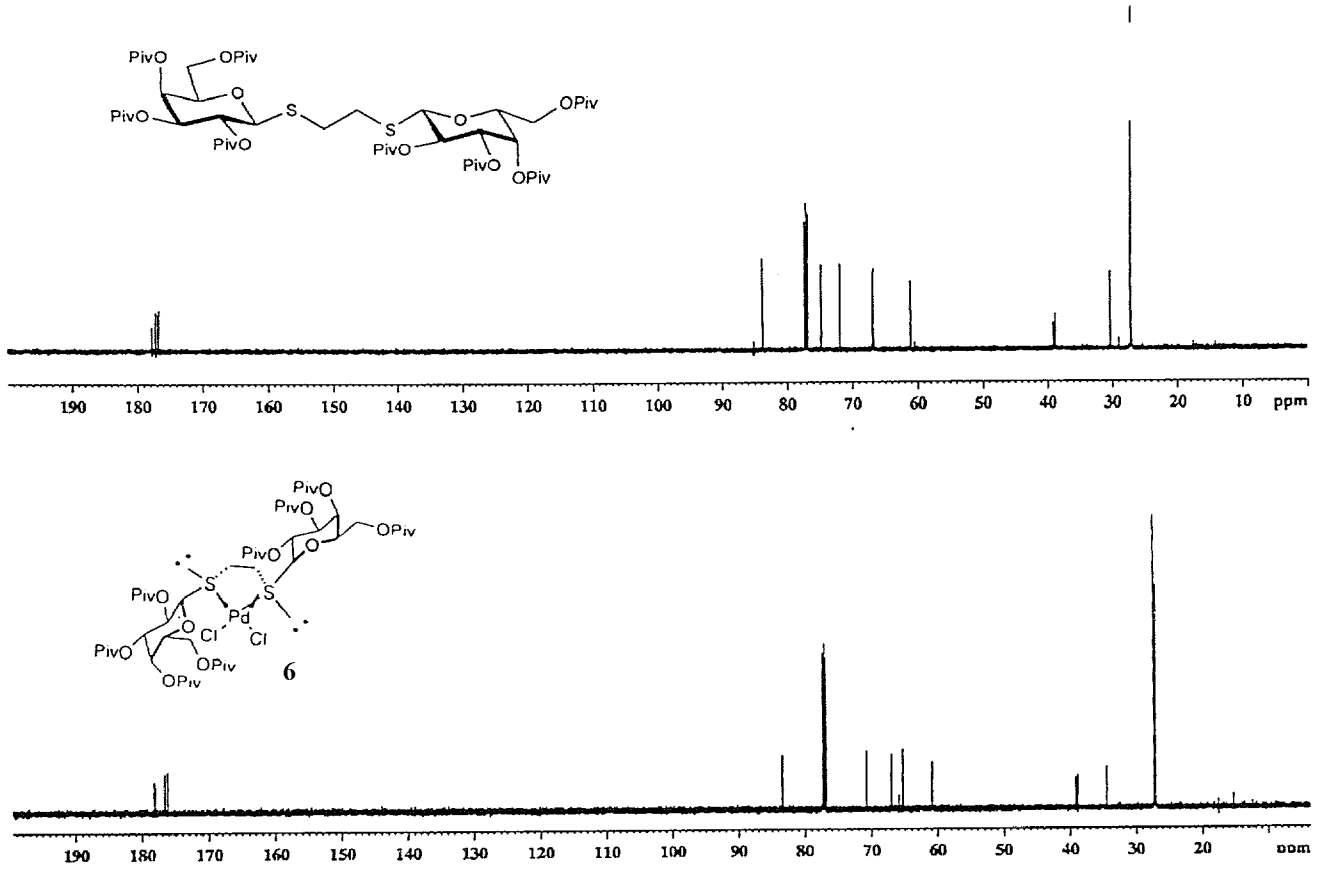
^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **3** and the corresponding free ligand



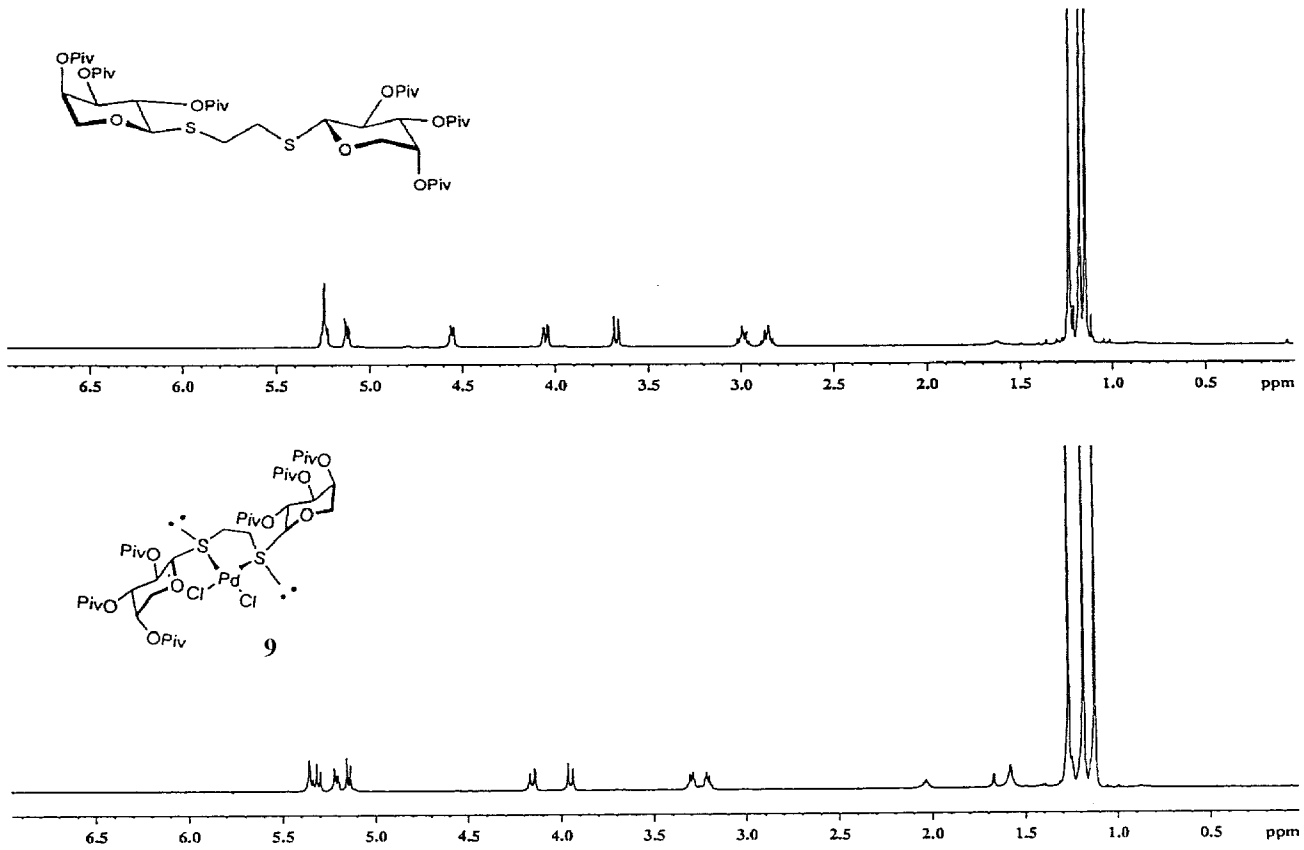
^{13}C-NMR (125 MHz, CDCl3) spectrum of **3** and the corresponding free ligand



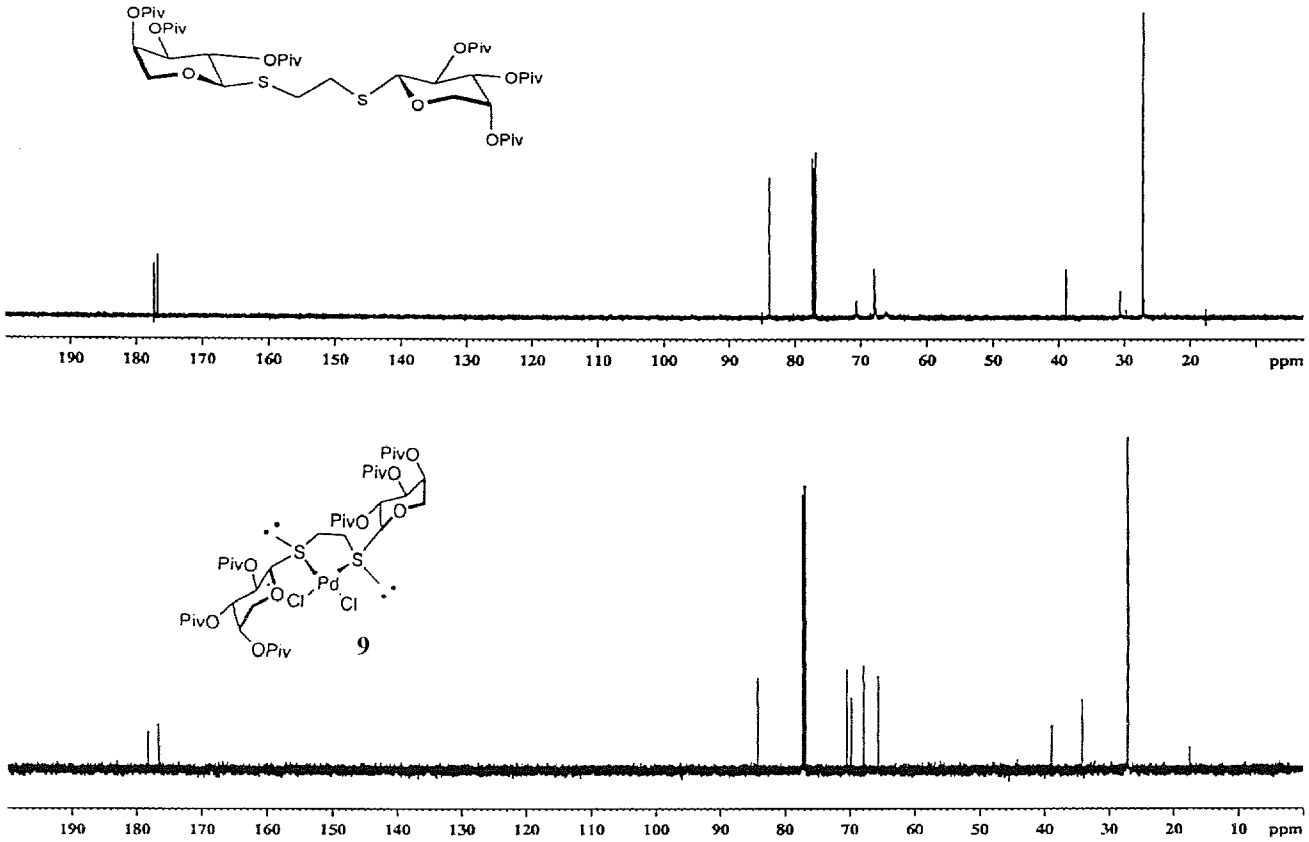
^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **6** and the corresponding free ligand



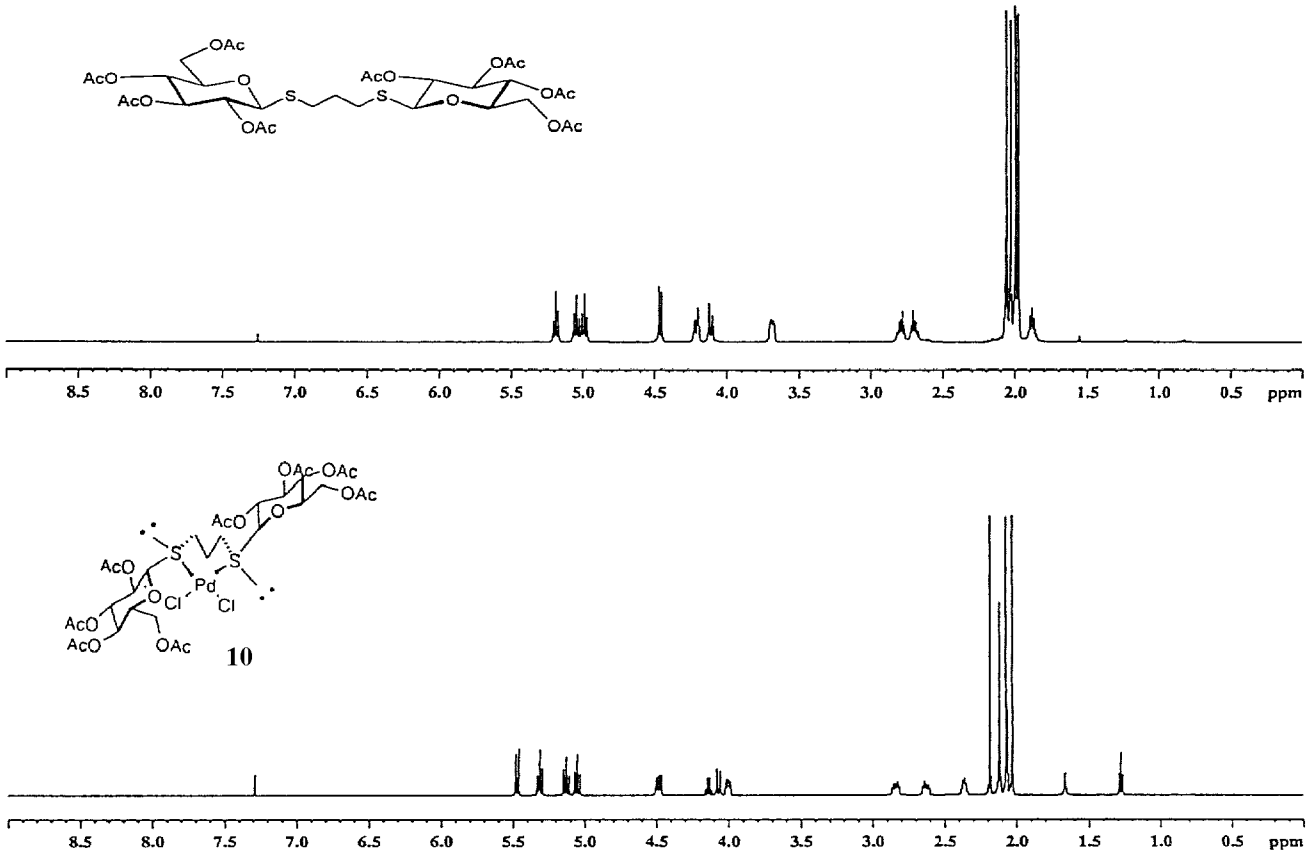
^{13}C-NMR (125 MHz, CDCl3) spectrum of **6** and the corresponding free ligand



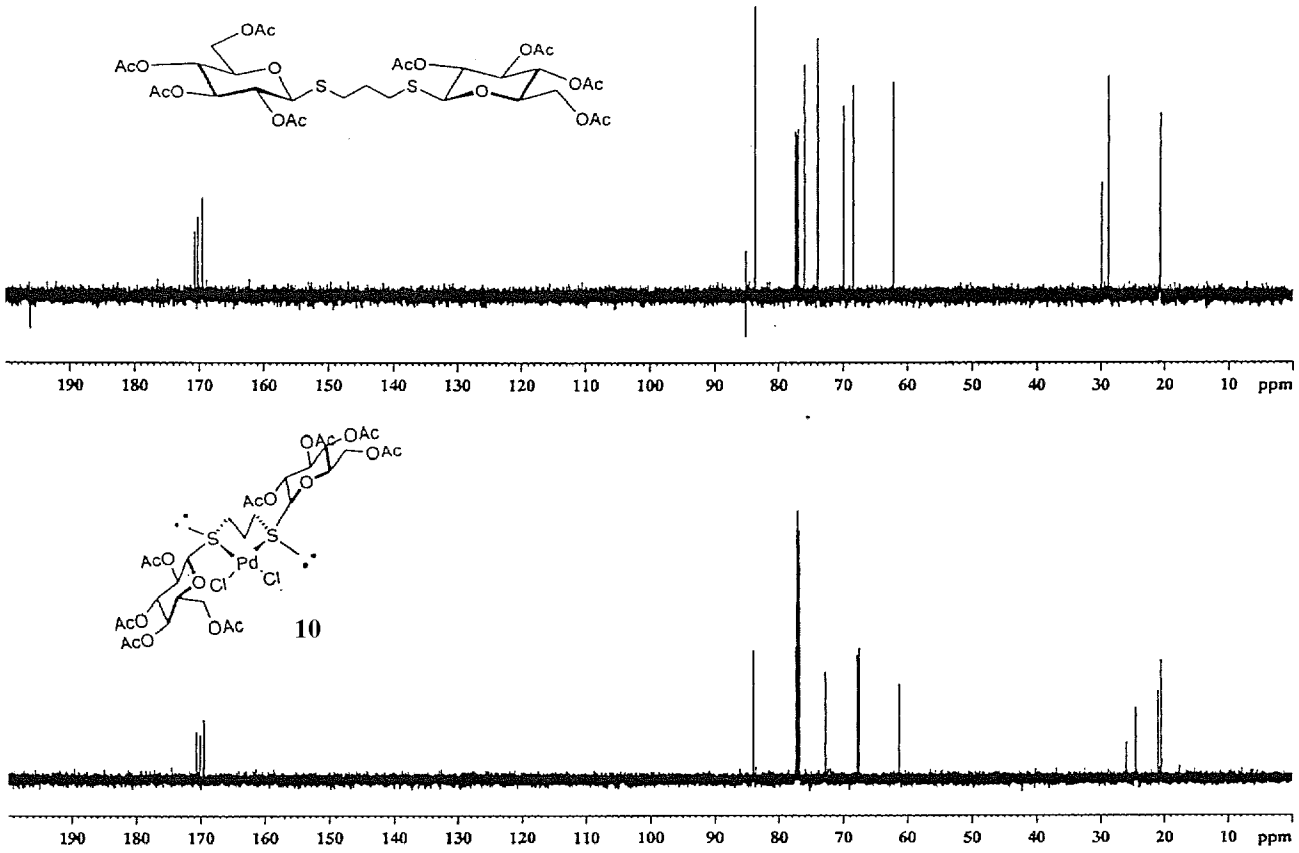
^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **9** and the corresponding free ligand



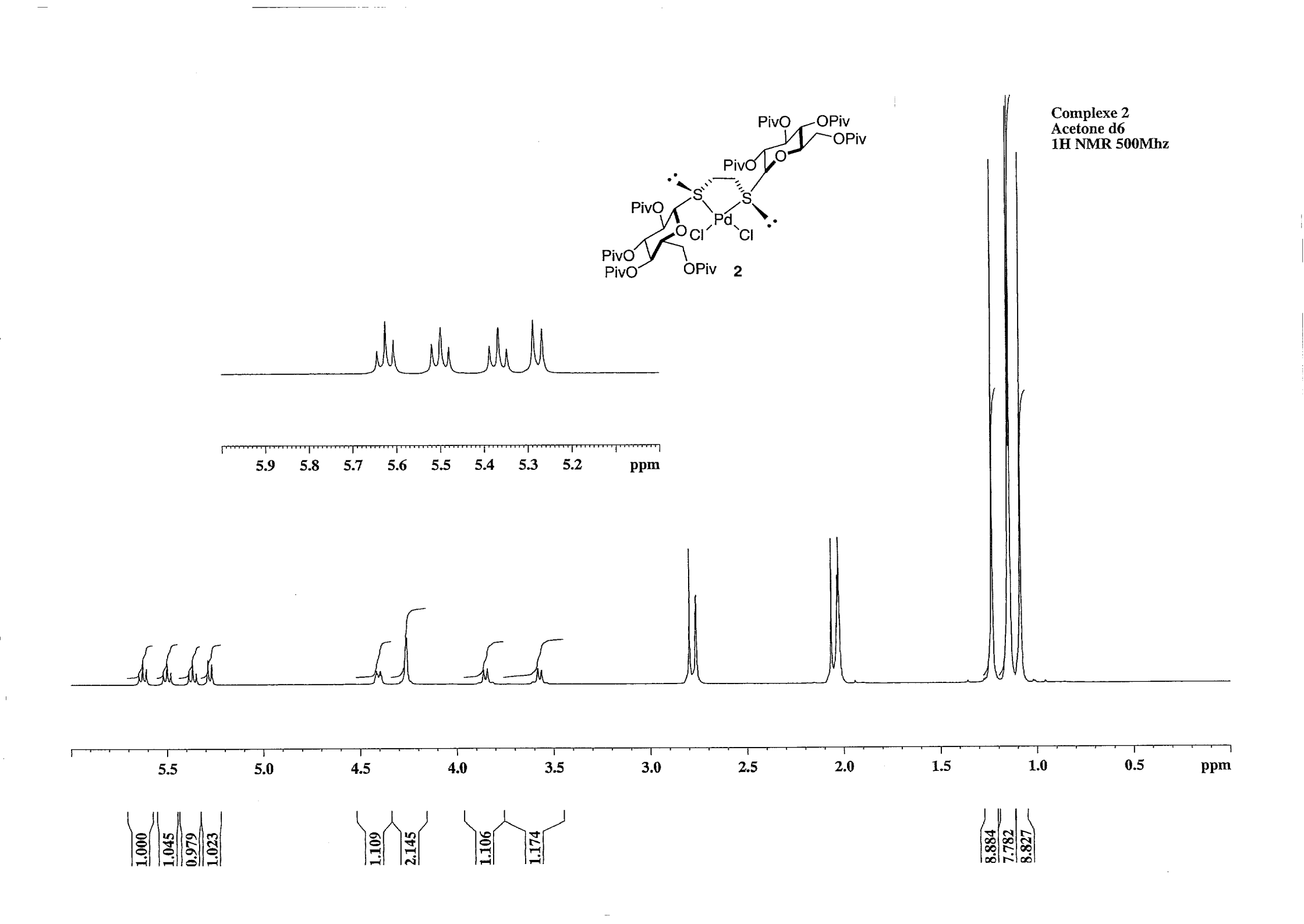
^{13}C-NMR (125 MHz, CDCl3) spectrum of **9** and the corresponding free ligand

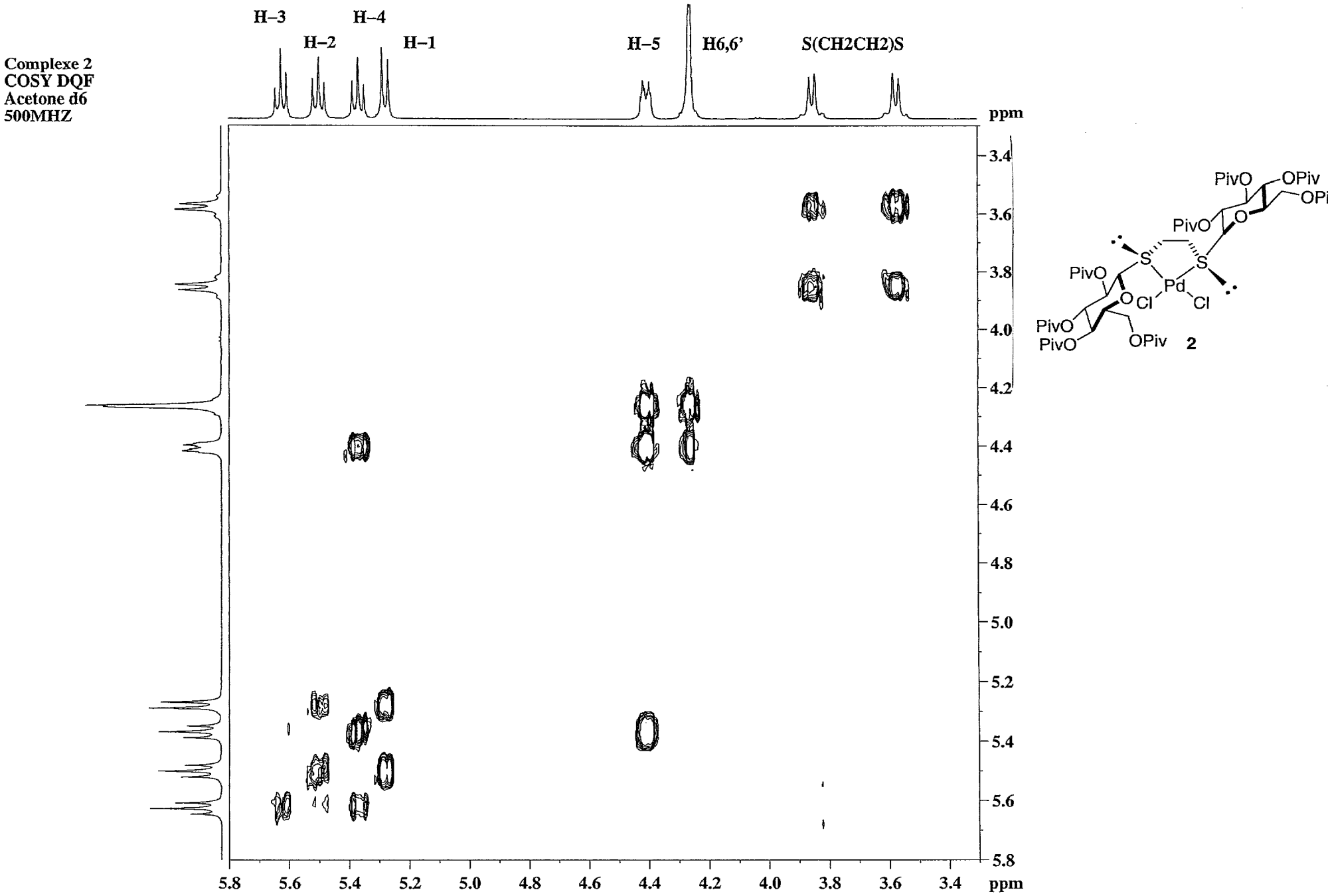


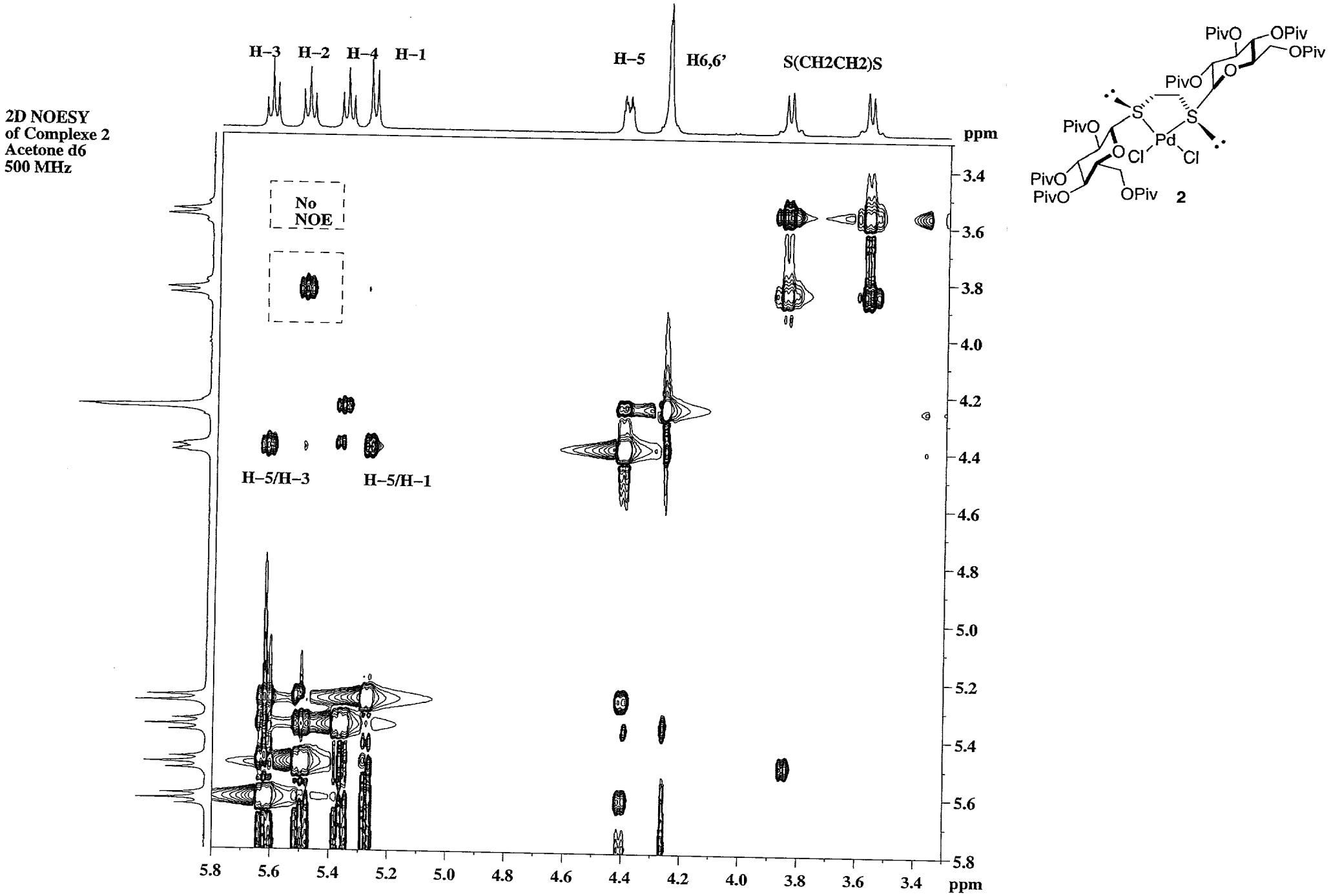
^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **10** and the corresponding free ligand



^{13}C-NMR (125 MHz, CDCl3) spectrum of **10** and the corresponding free ligand


Complexe 2
Acetone d6
1H NMR 500Mhz
PivO
OPiv
OPiv
PivO
O
S
S
PivO
Pd
O
Cl
Cl
PivO
PivO
OPiv
2
5.9
5.8
5.7
5.6
5.5
5.4
5.3
5.2
ppm
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
ppm
1.000
1.045
0.979
1.023
1.109
2.145
1.106
1.174
8.884
7.782
8.827


Complexe 2
COSY DQF
Acetone d6
500MHZ
H–3
H–2
H–4
H–1
H–5
H6,6'
S(CH2CH2)S
ppm
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
PivO
OPiv
Pd
Cl
2


2D NOESY
of Complexe 2
Acetone d6
500 MHz
H–3
H–2
H–4
H–1
H–5
H6,6'
S(CH2CH2)S
ppm
No
NOE
H–5/H–3
H–5/H–1
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
ppm
PivO
OPiv
OPiv
PivO
O
S
S
PivO
O
Pd
Cl
Cl
PivO
PivO
OPiv
2