SUPPORTING INFORMATION

for

A general protocol for the synthesis of Pt-NHC (NHC = N-heterocyclic carbene) hydrosilylation catalysts

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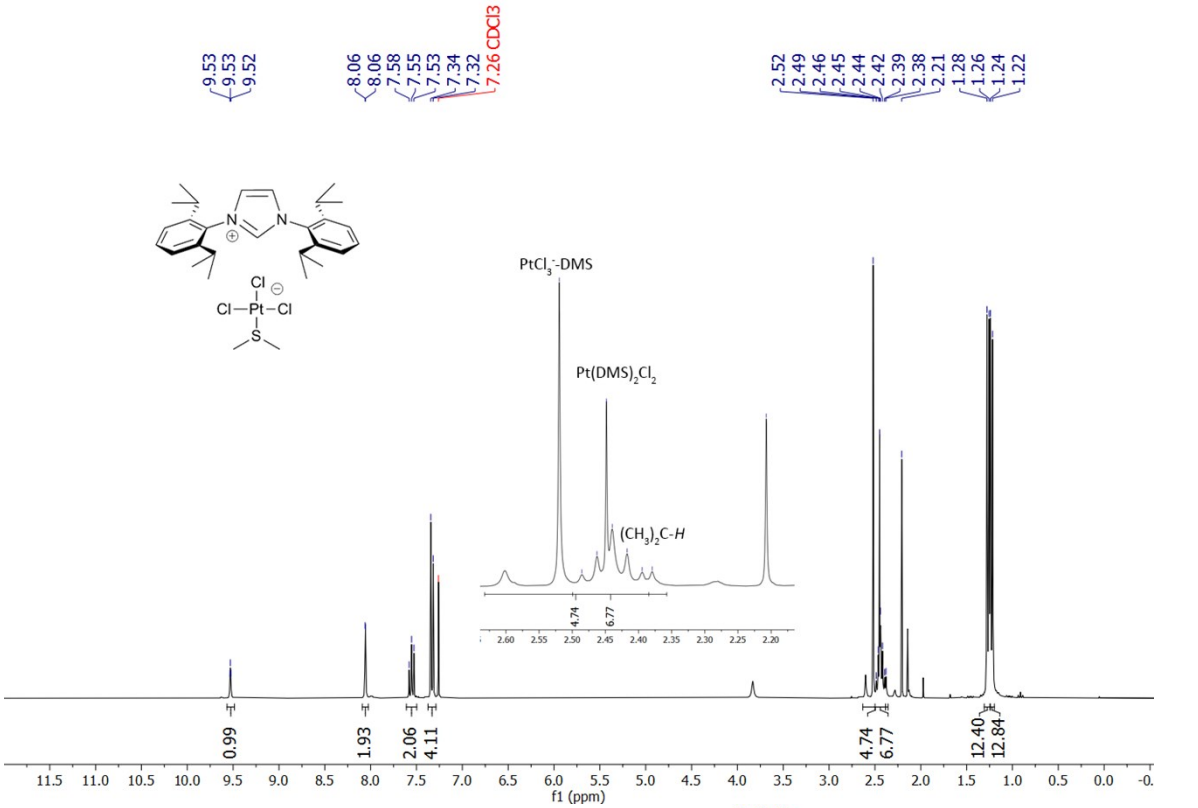
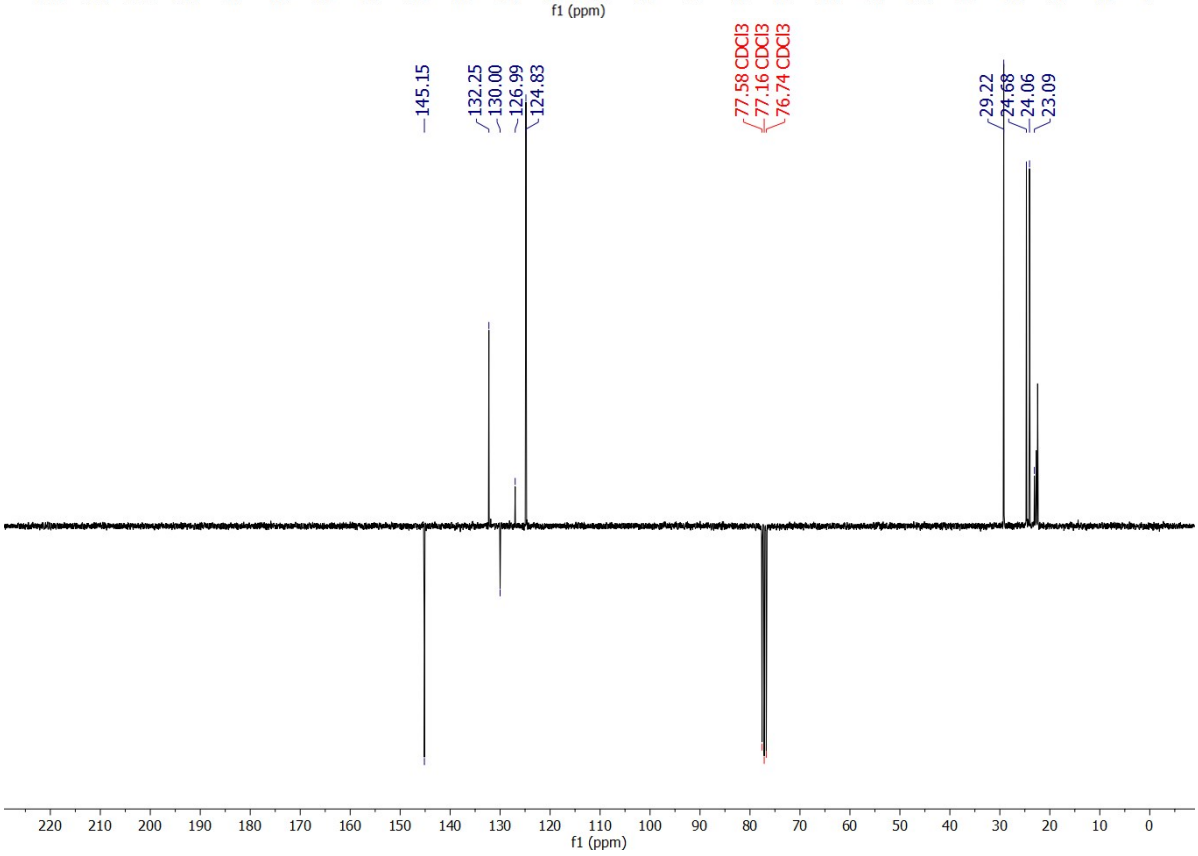
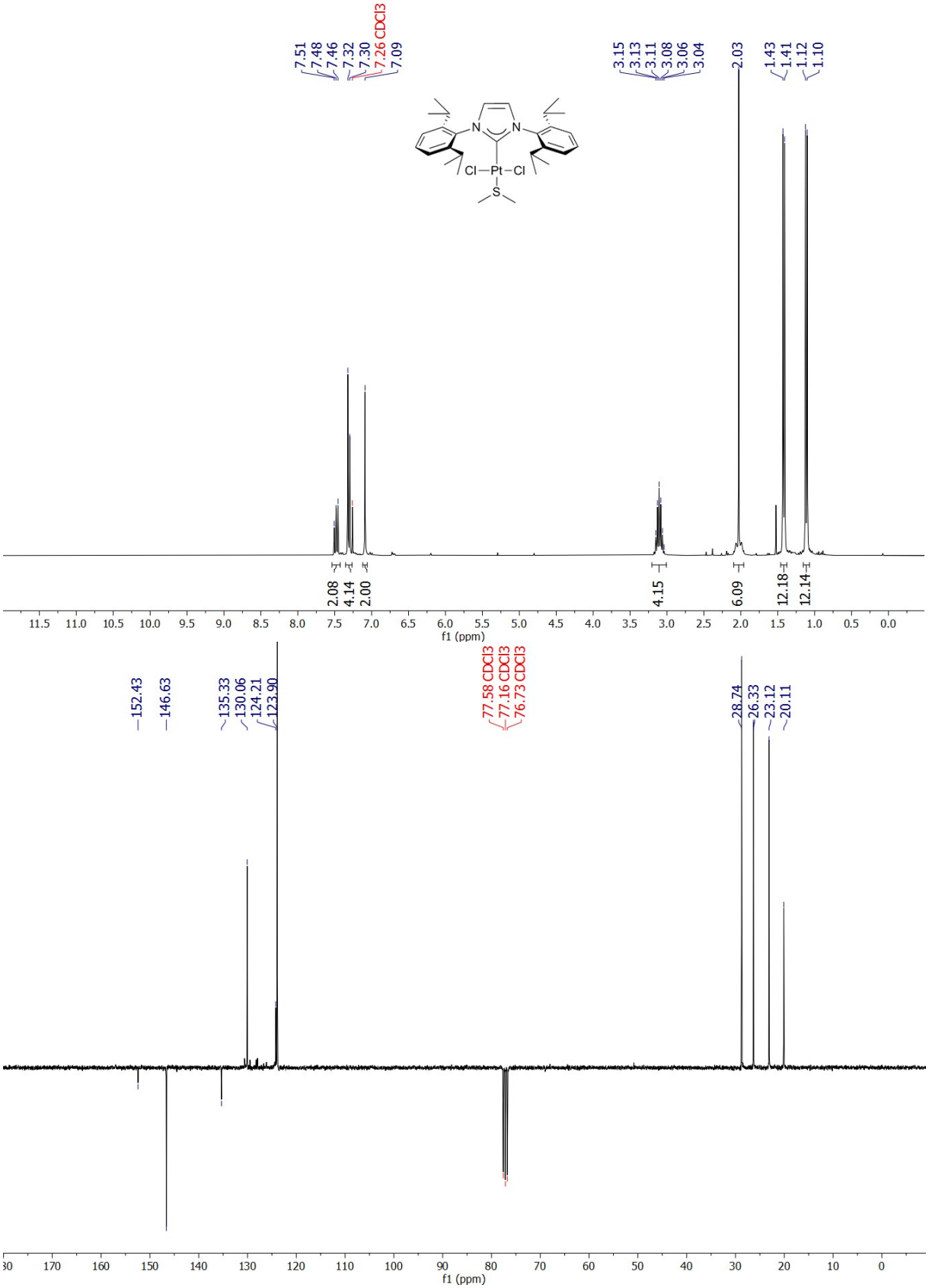
1. NMR spectra

1.1. ^{1}H and $^{13}C\{1H\}$ apt NMR of [IPrH][Pt(DMS)Cl_3] (2)

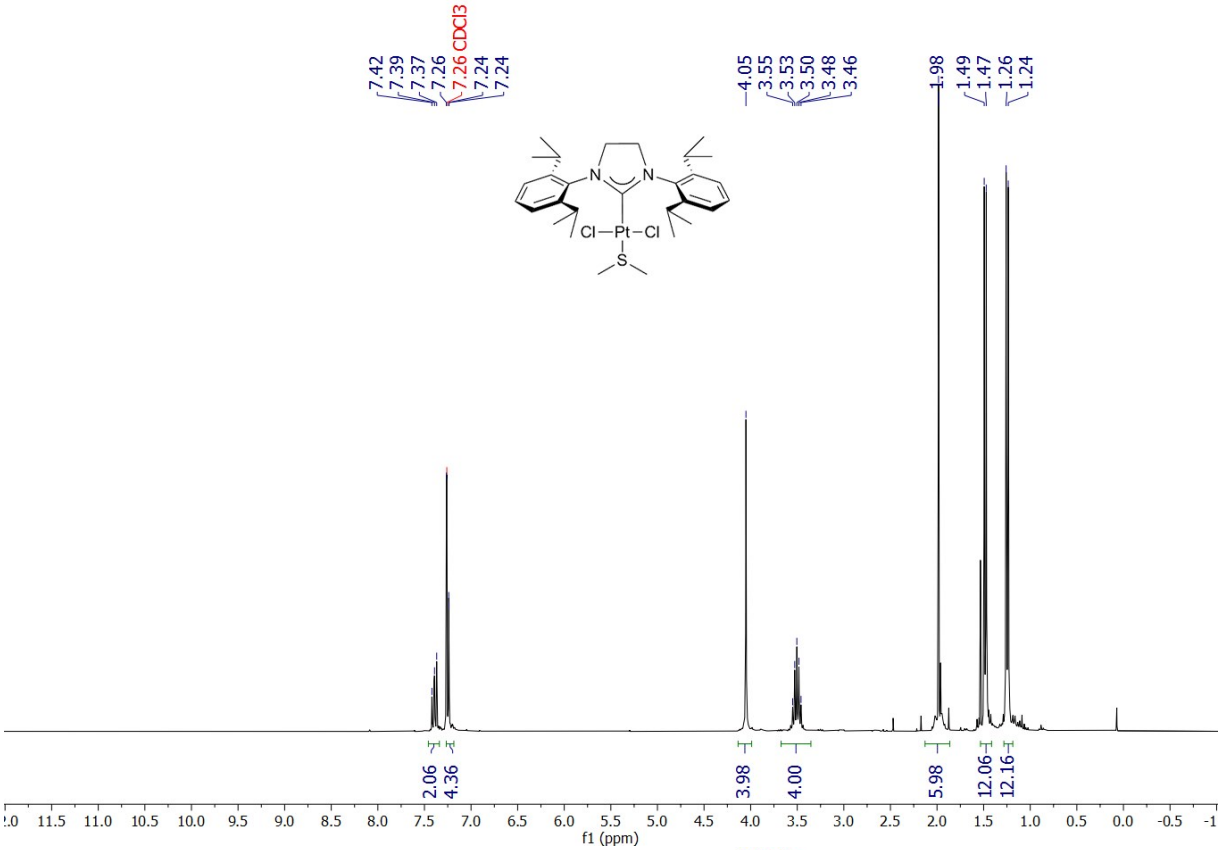


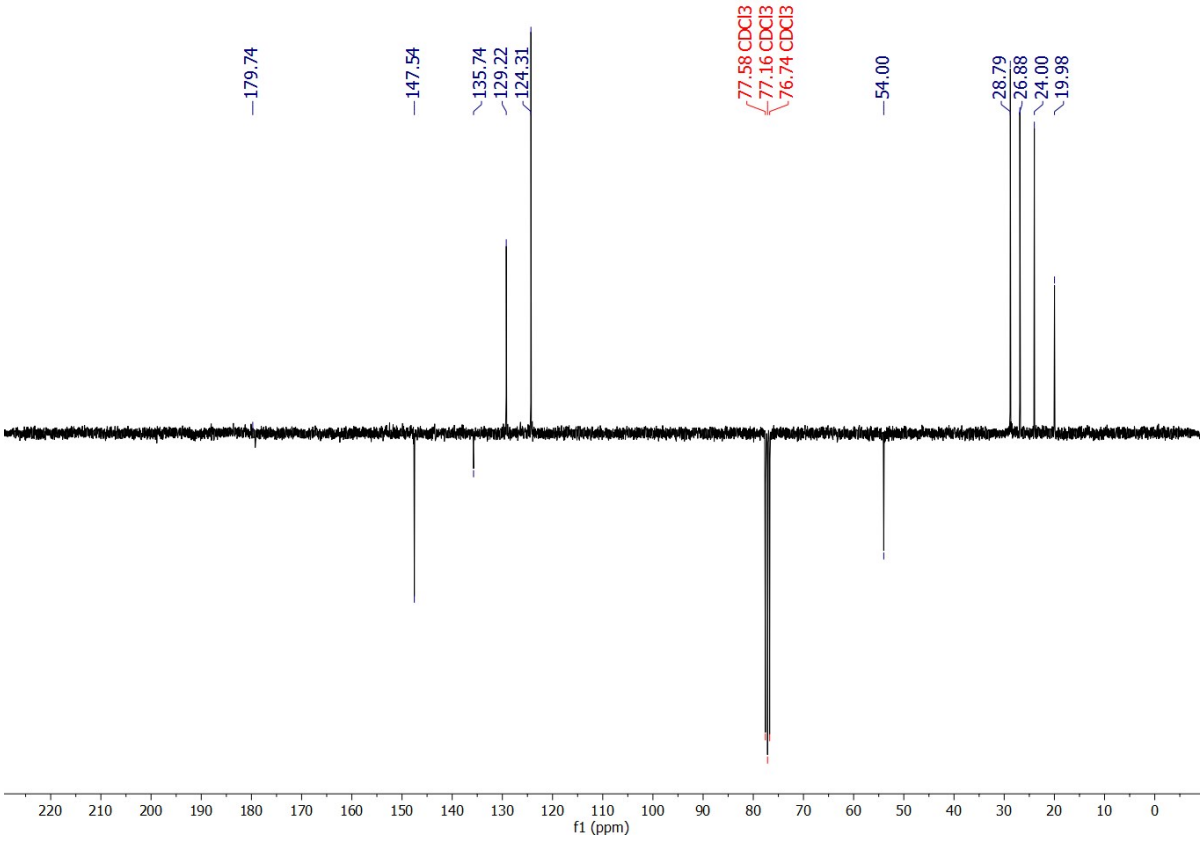


1.2. ^{1}H and $^{13}C\{1H\}$ apt NMR of $[Pt(IPr)(DMS)Cl_2]$ (3a)

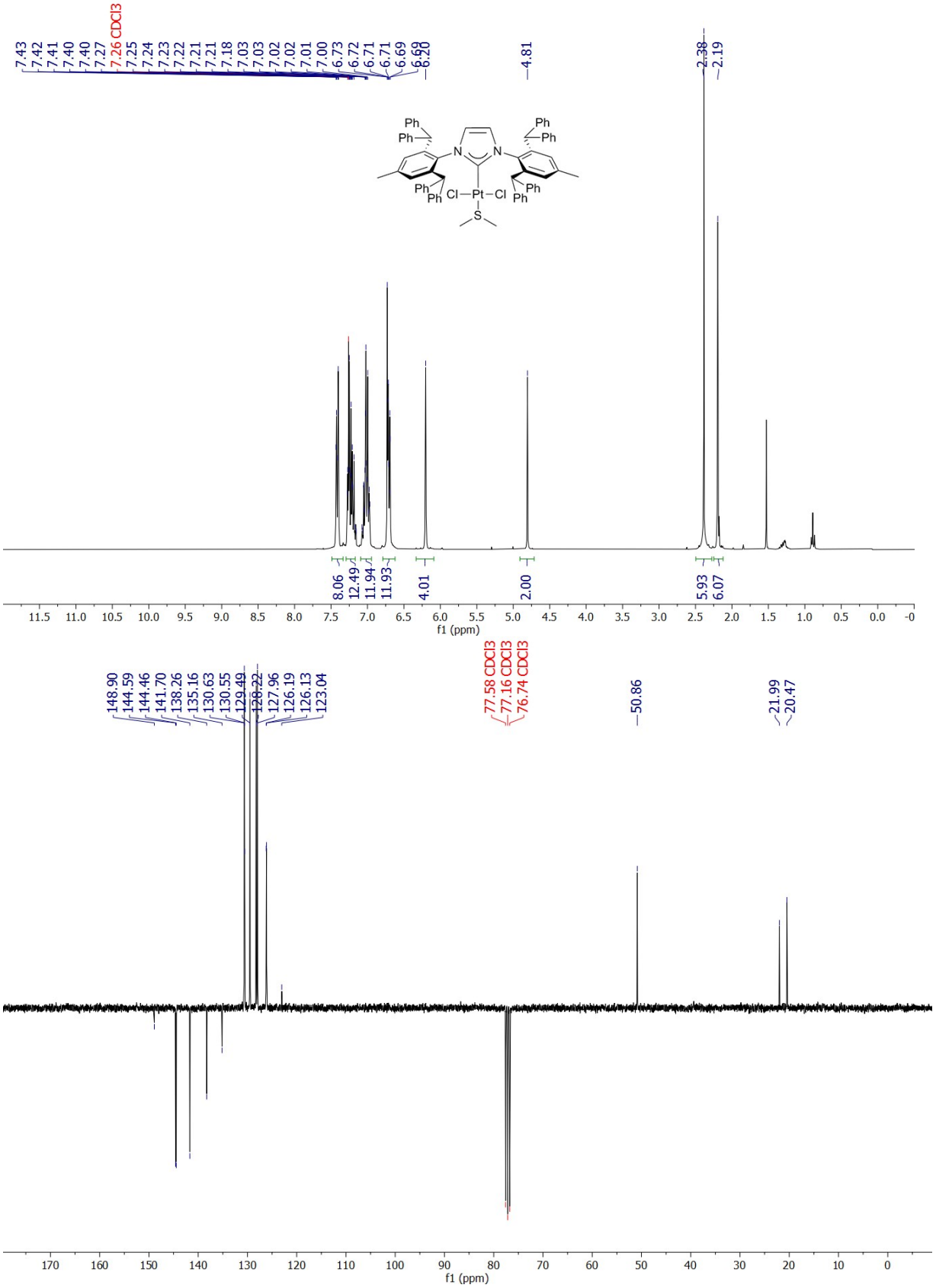


1.3. ^{1}H and $^{13}C\{1H\}$ apt NMR of [Pt(SIPr)(DMS)Cl_2] (3b)

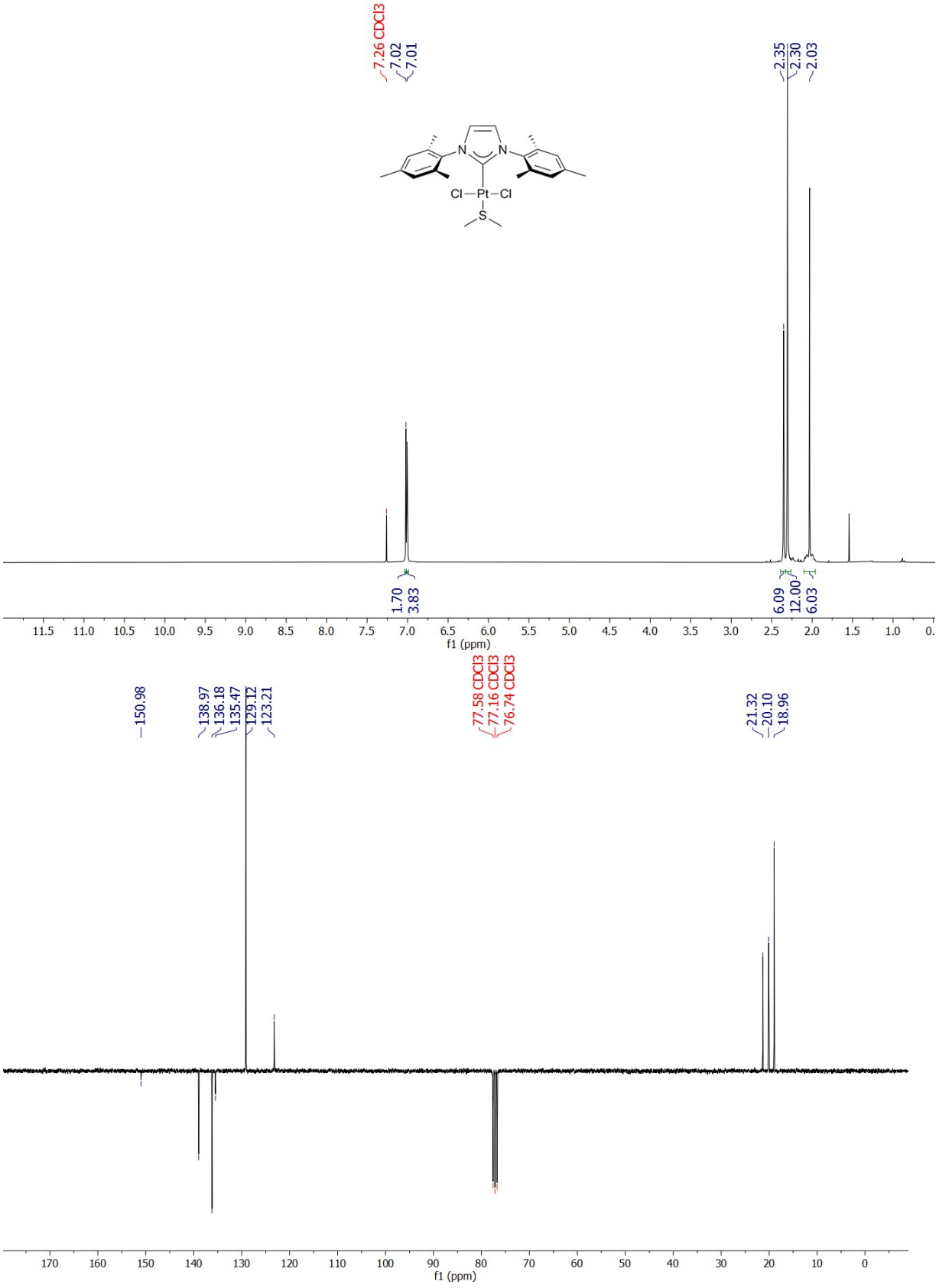




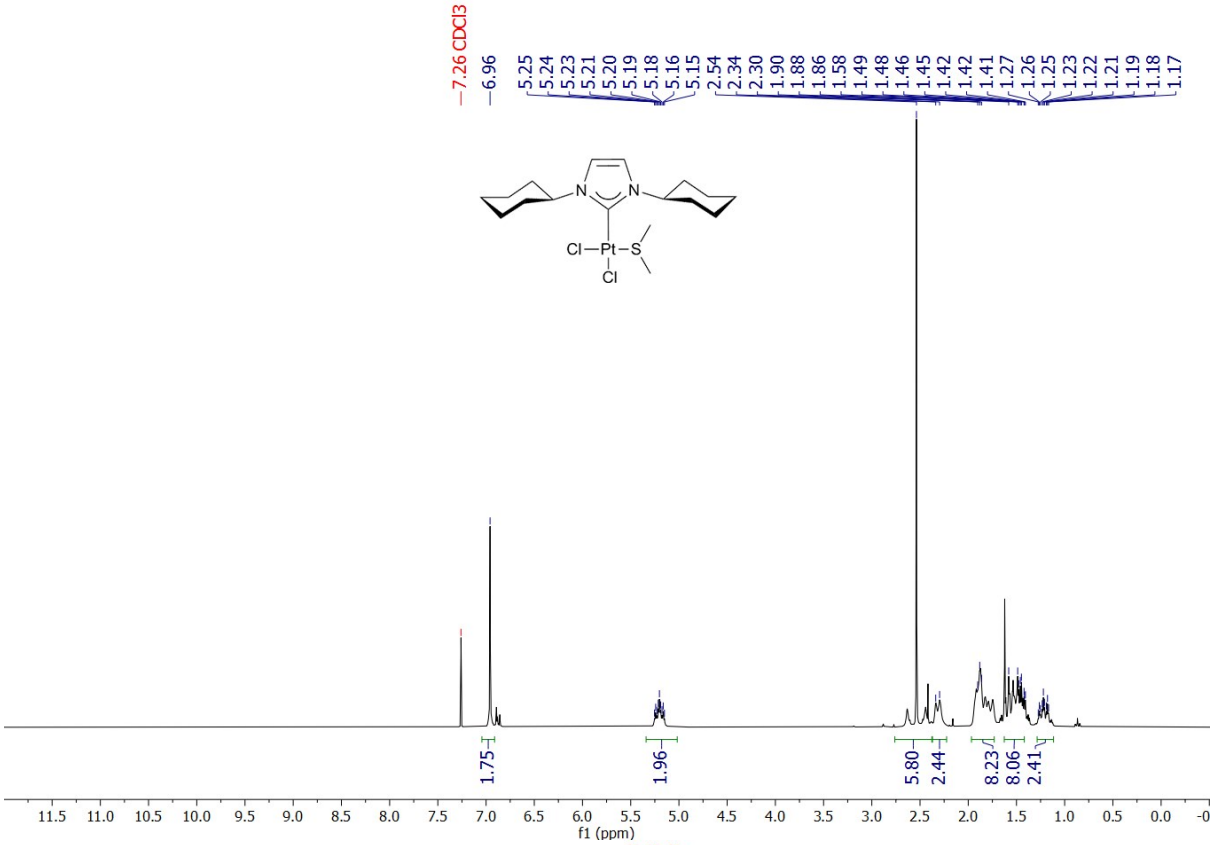
1.4. ^{1}H and $^{13}C\{1H\}$ apt NMR of [Pt(IPr*)(DMS)Cl_2] (3c)

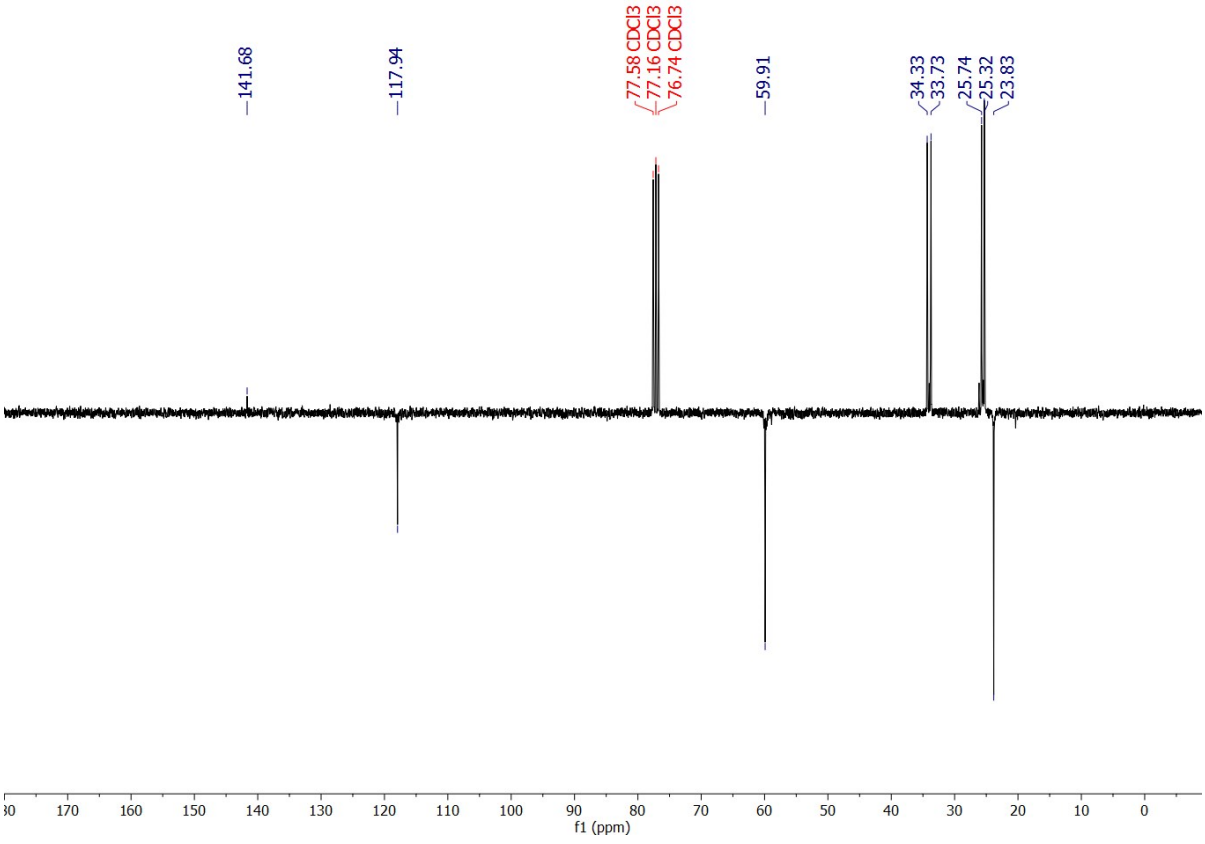


1.5. ^{1}H and $^{13}C\{1H\}$ apt NMR of [Pt(IMes)(DMS)Cl_2] (3d)

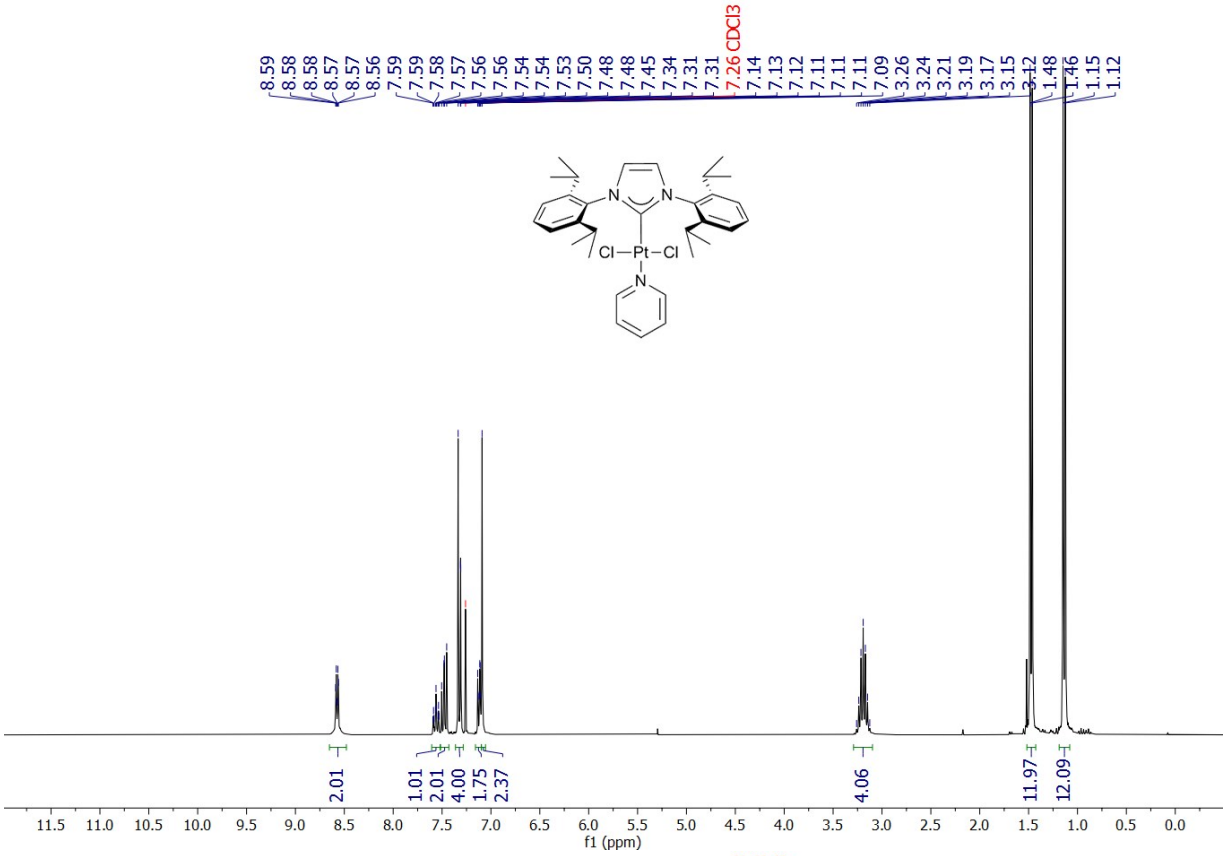


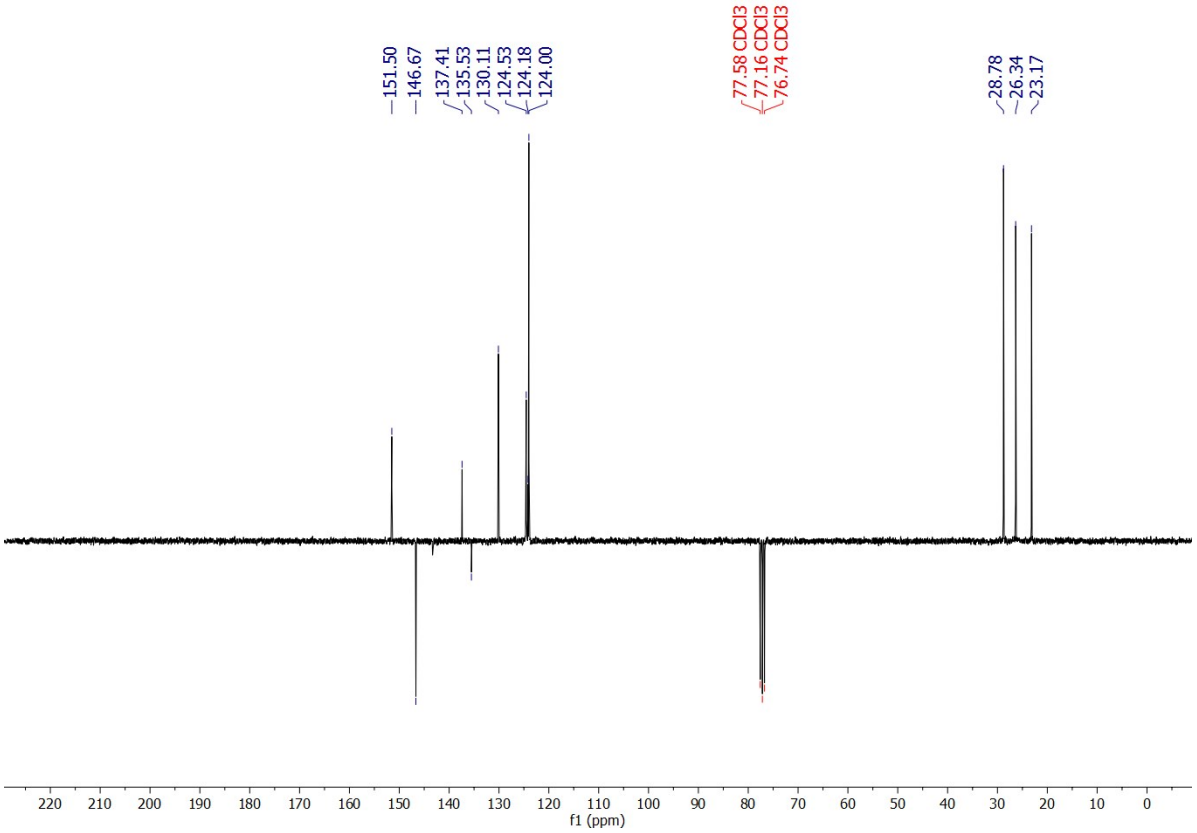
1.6. ^{1}H and $^{13}C\{1H\}$ apt NMR of $[Pt(ICy)(DMS)Cl_2]$ (3e)



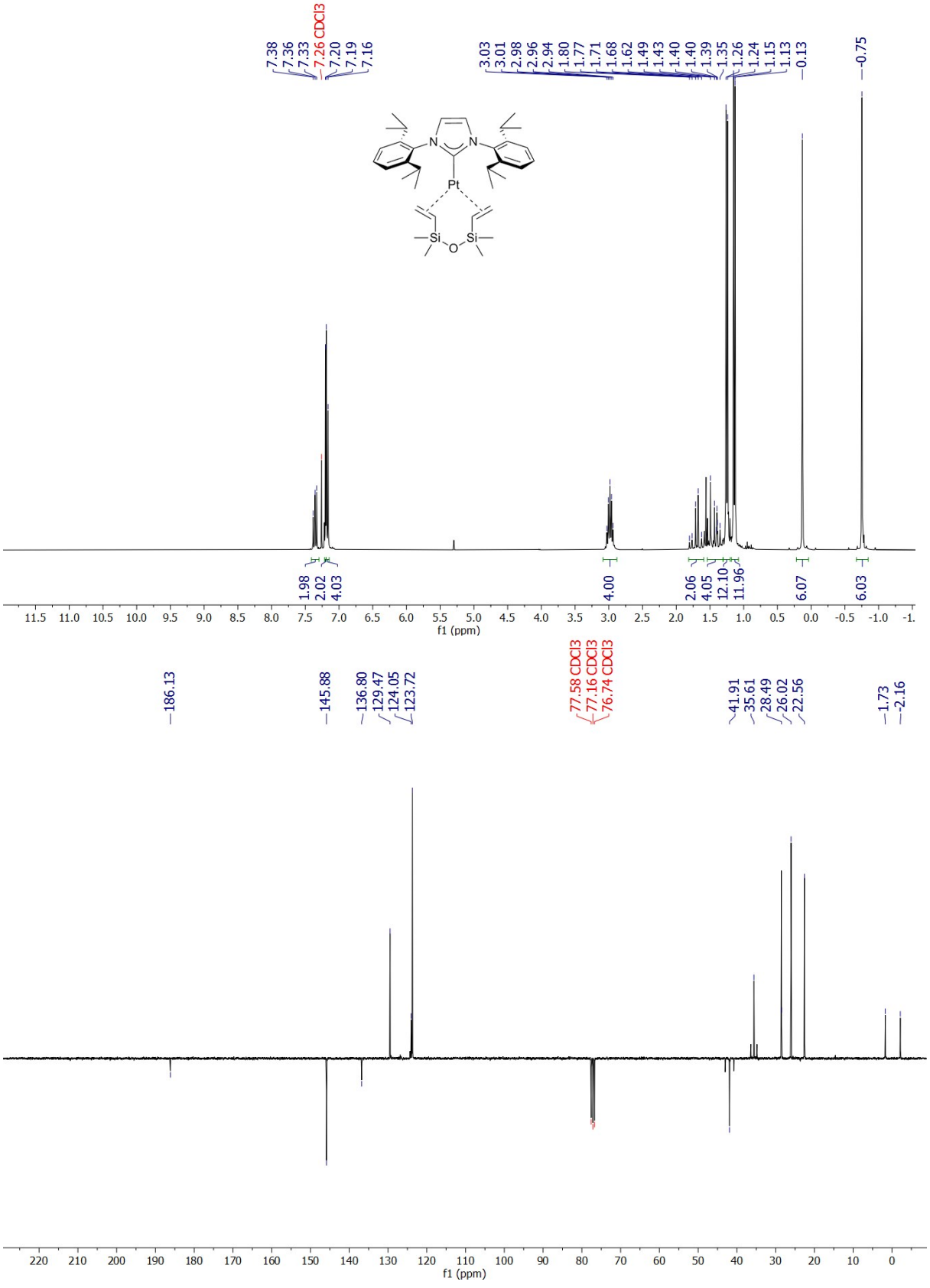


1.7. ^{1}H and $^{13}C\{1H\}$ apt NMR of $[Pt(IPr)(Py)Cl_2]$ (7a)





1.8. ^{1}H and $^{13}C\{1H\}$ apt NMR of [Pt(IPr)(dvtms)Cl_2] (8a)



1.9. ^{1}H and $^{13}C\{1H\}$ NMR of 1,1,1,3,5,5,5-heptamethyl-3-octyltrisiloxane (9)