

Supporting Information

for

Beta-hydroxyphosphonate ribonucleoside analogues derived from 4-substituted-1,2,3-triazoles as IMP/GMP mimics: synthesis and biological evaluation

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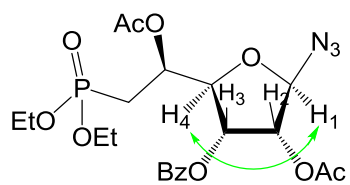
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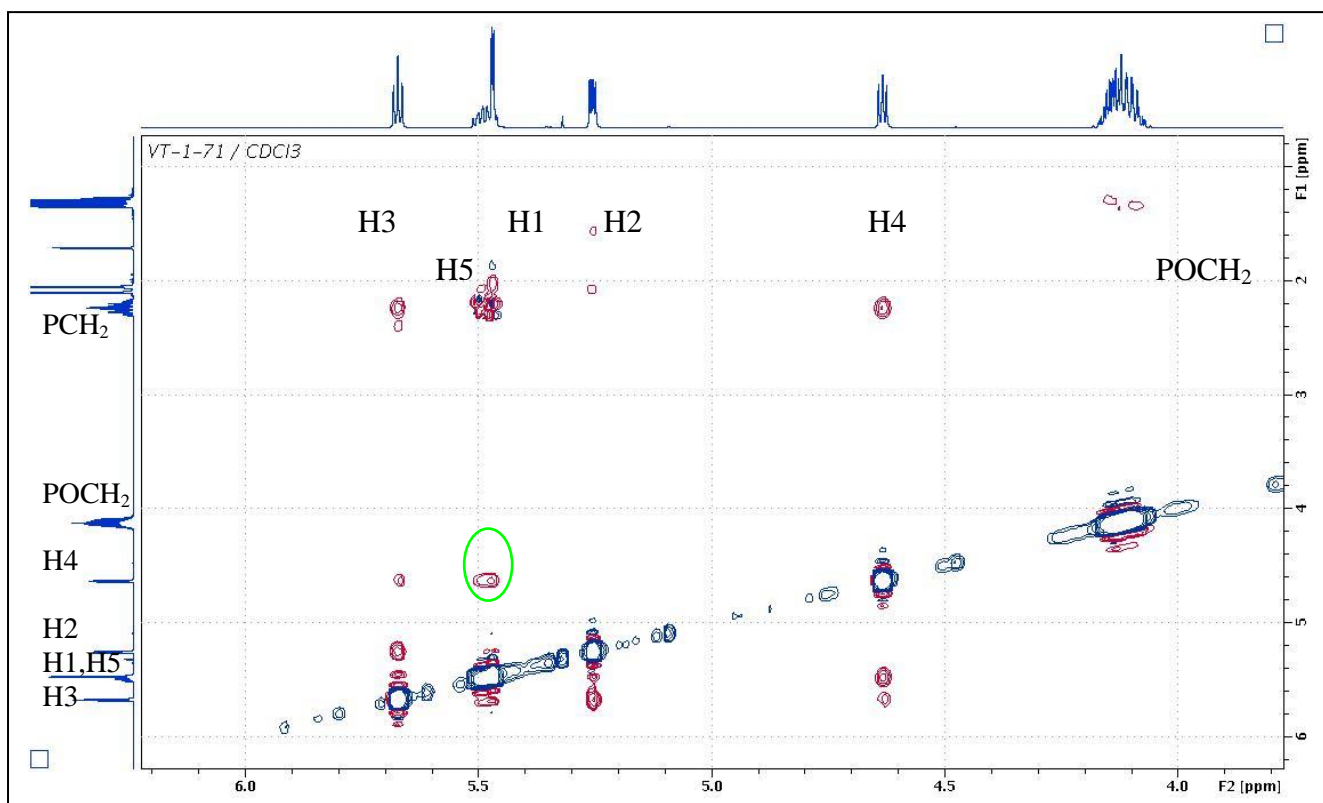
*Corresponding author

Spectral data for new compounds and 2D NMR studies

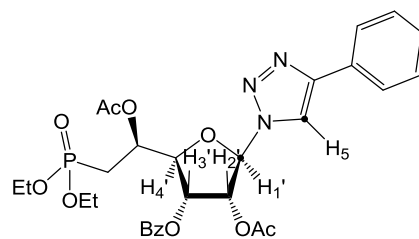
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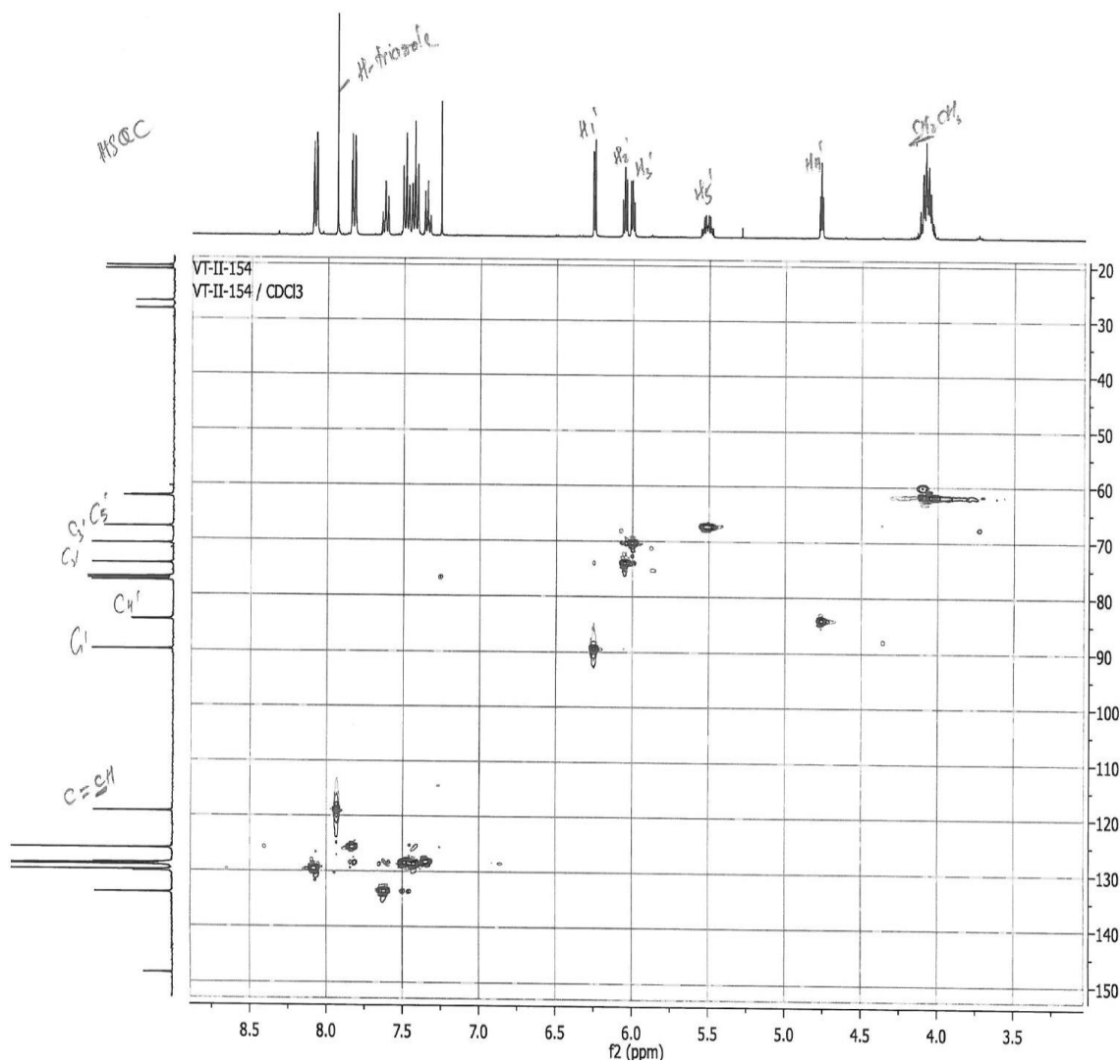
2D-NMR experiments for compound **2**



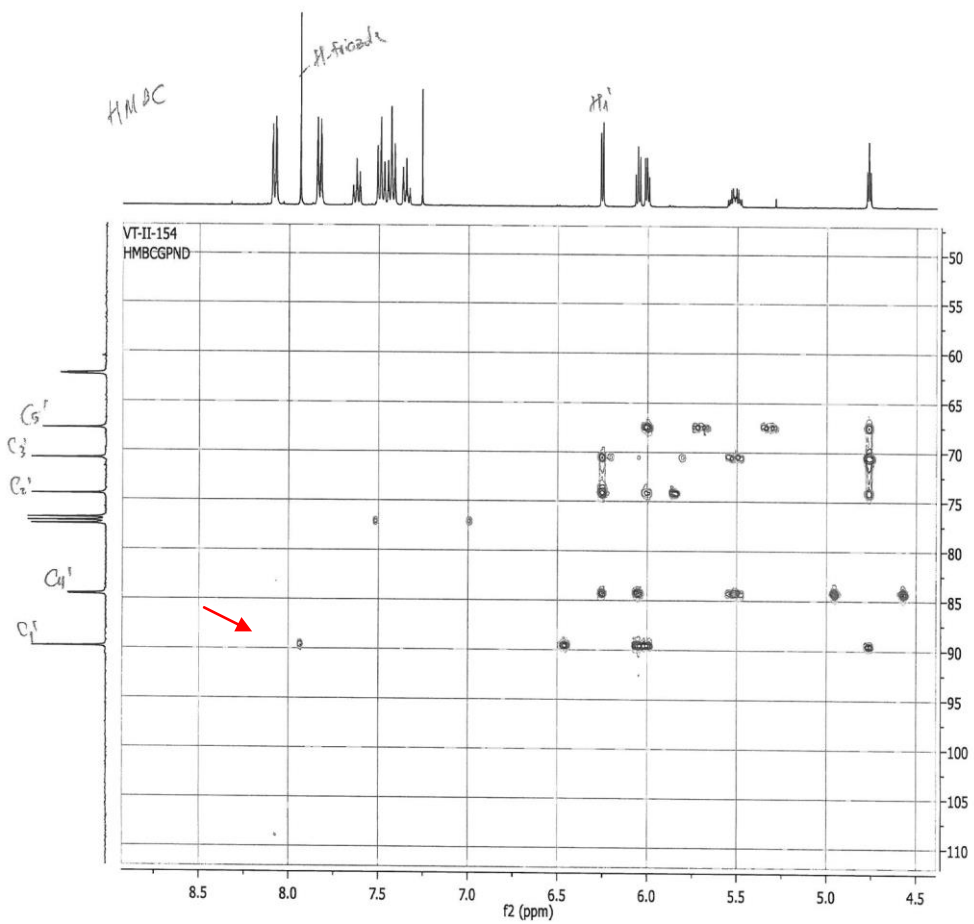
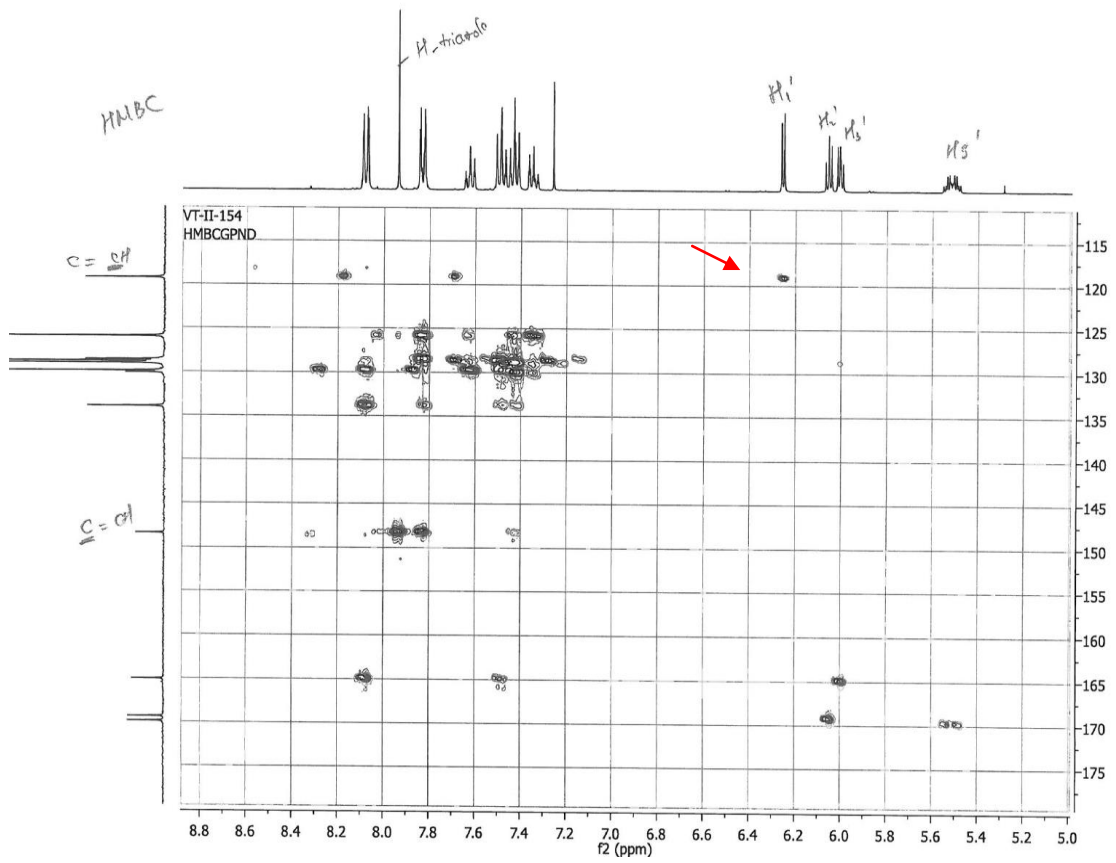
2D-NMR experiments for compounds **3a**



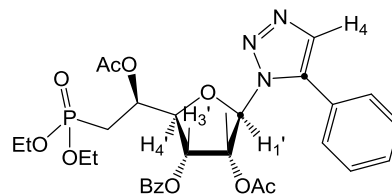
HSQC-experiment



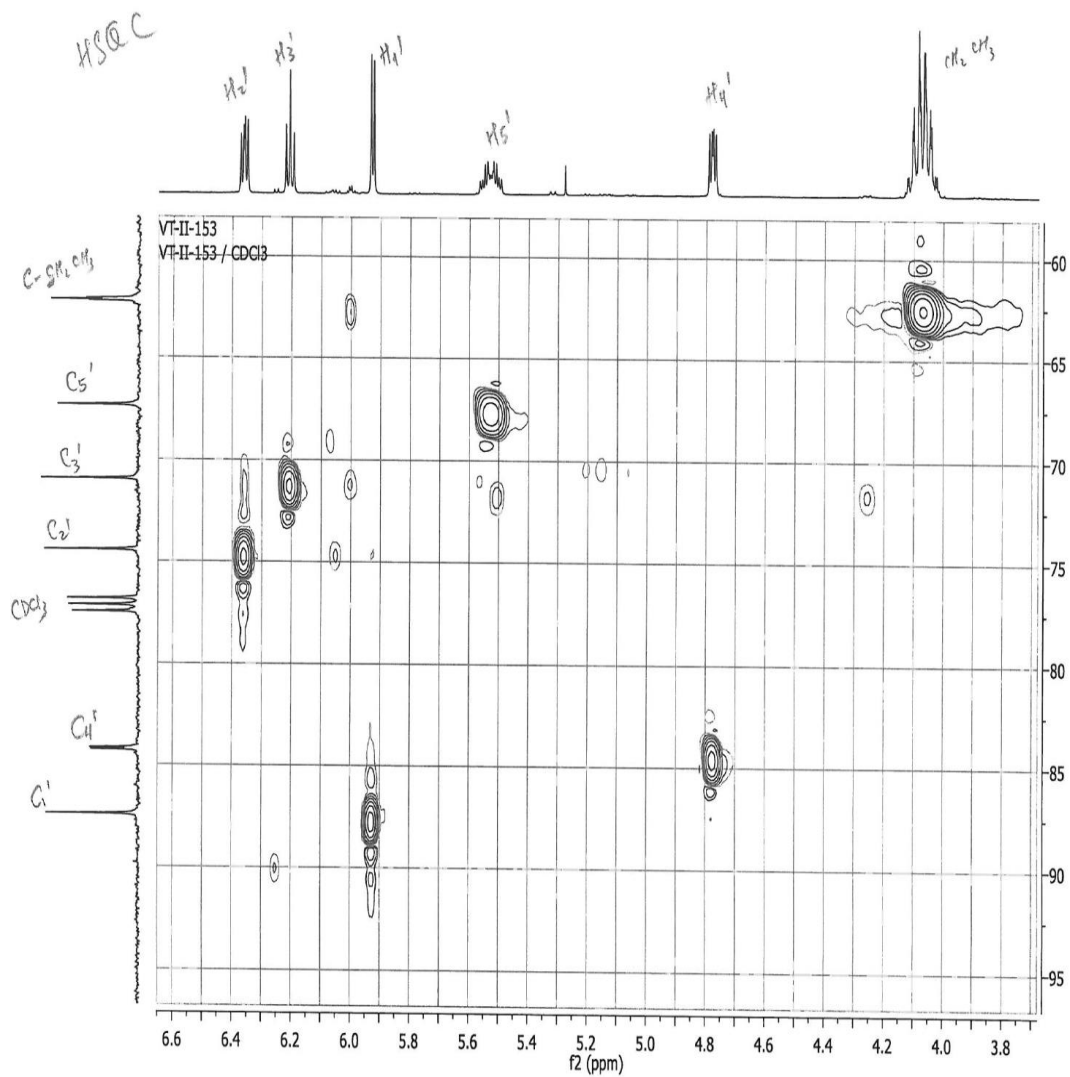
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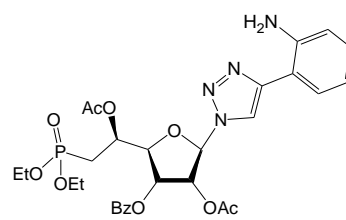


2D-NMR experiments for compound **3aa**



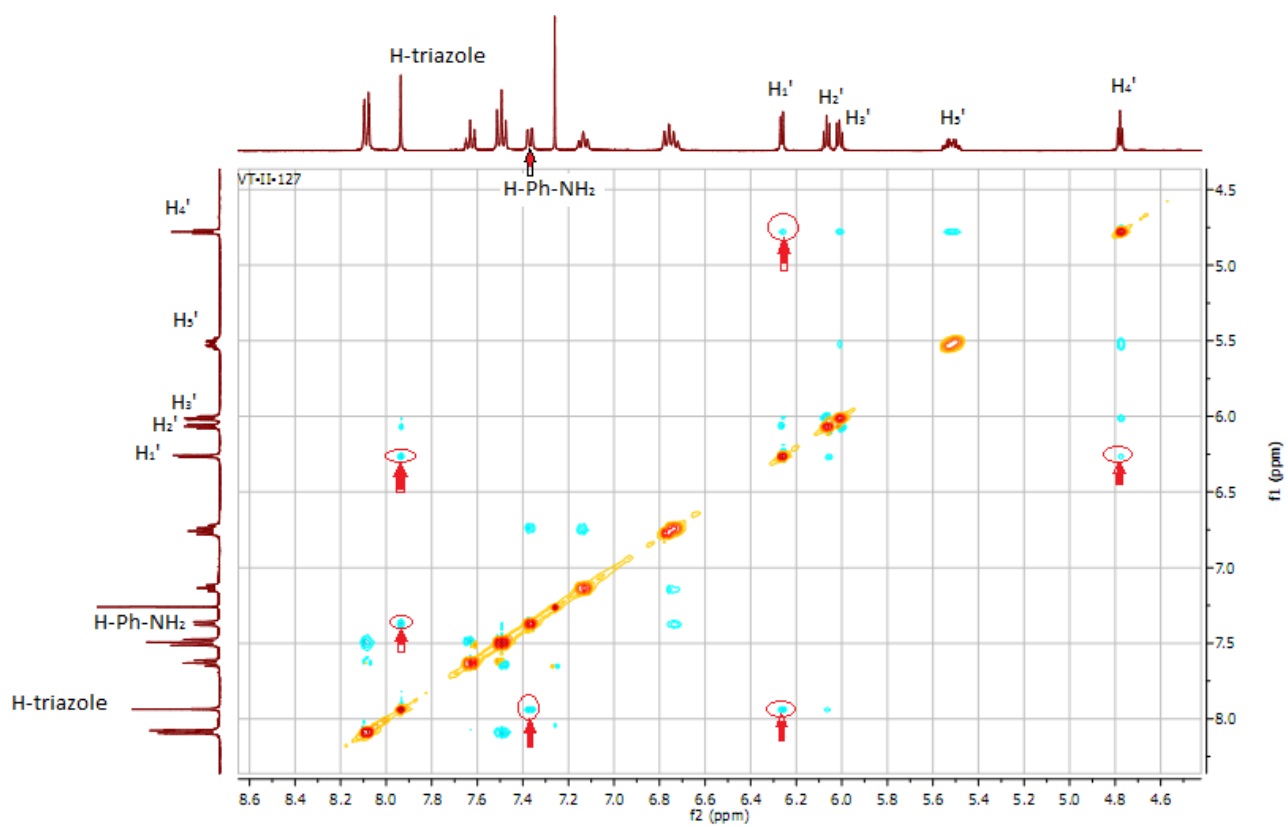
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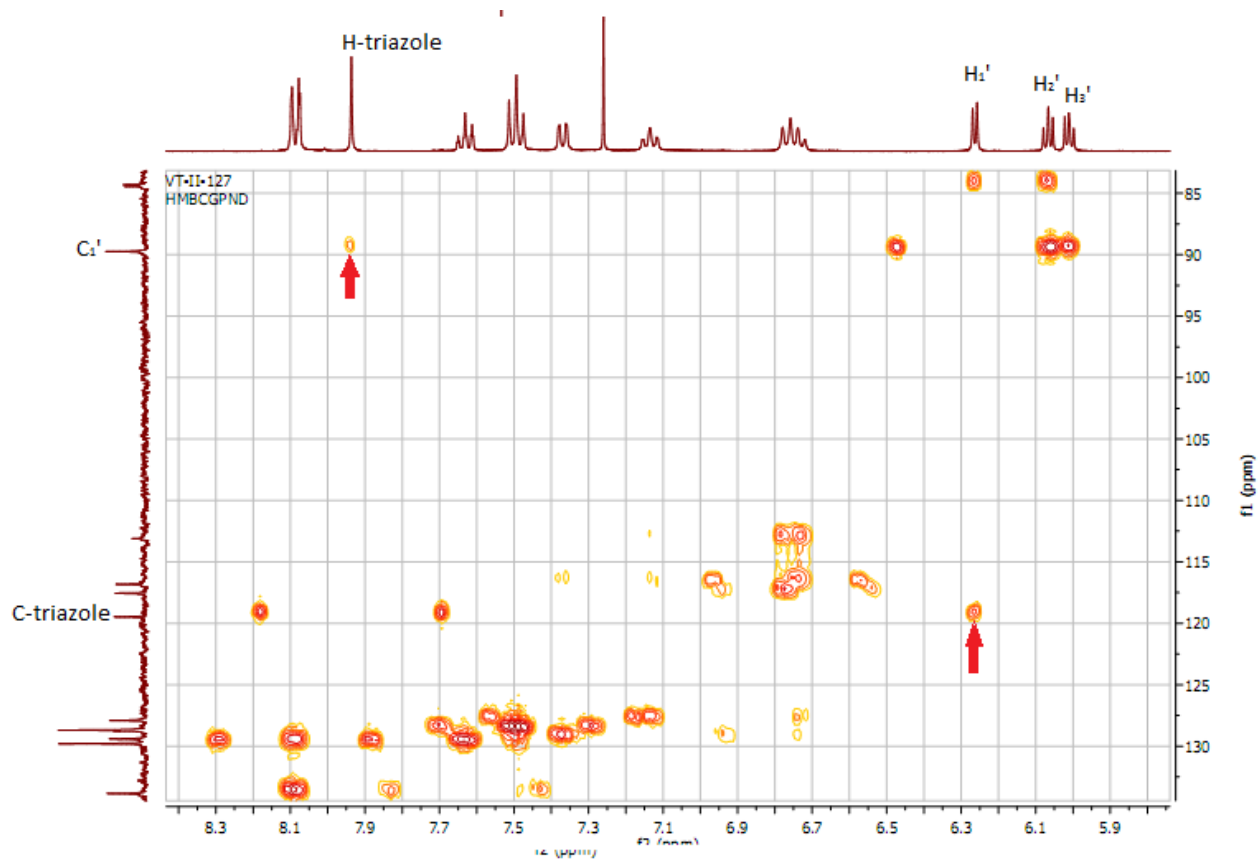


2D-NMR experiments for compounds **3h**

NOESY experiment

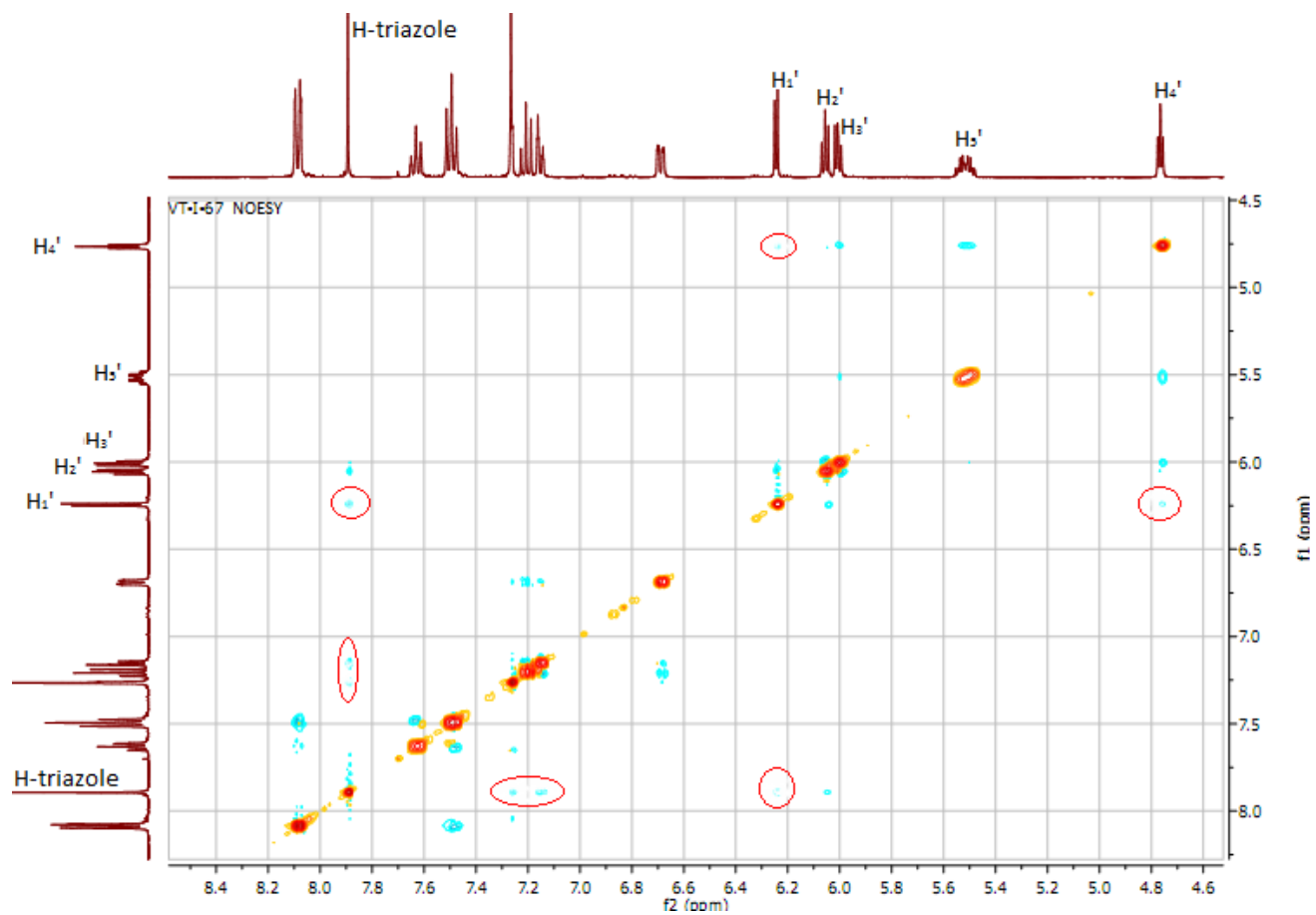
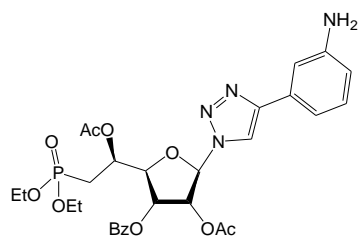


HMBC experiment

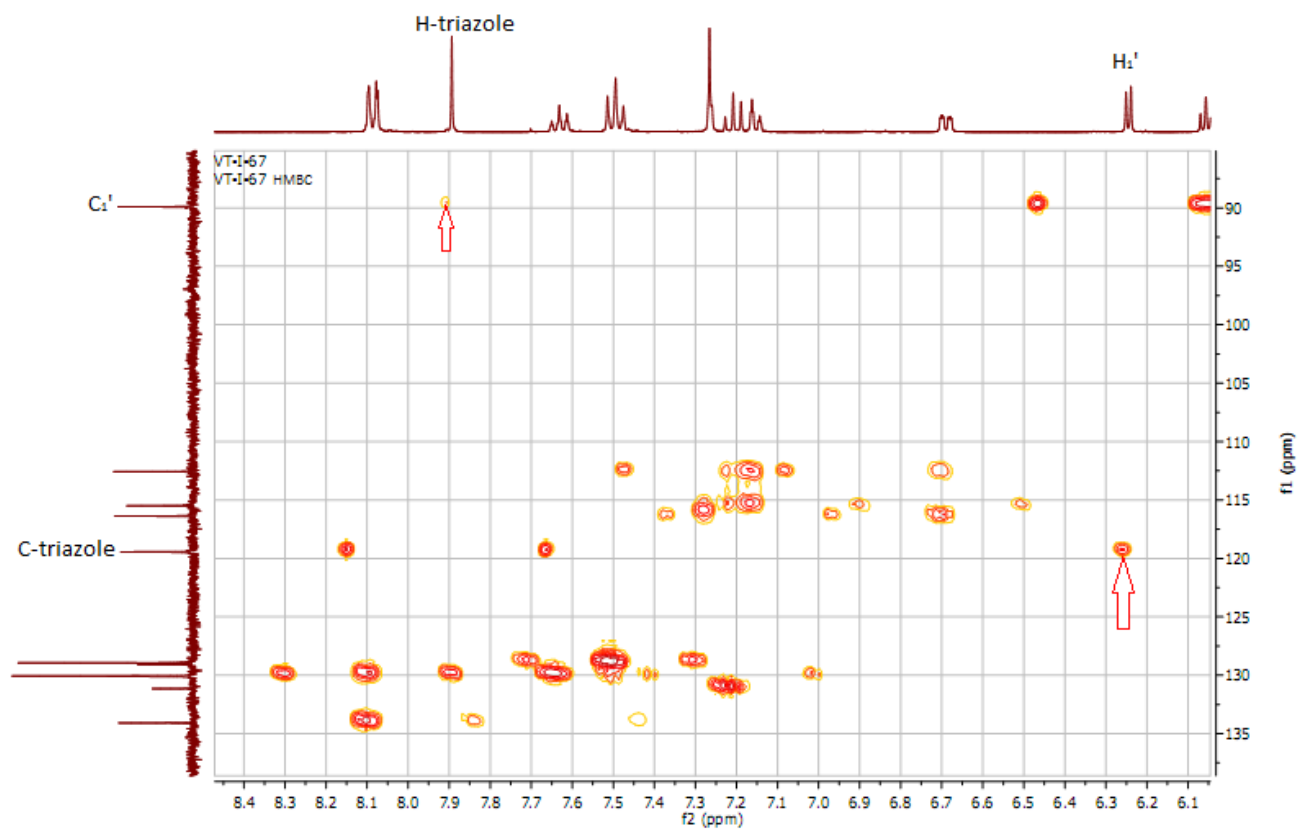


2D-NMR experiments for compounds **3i**

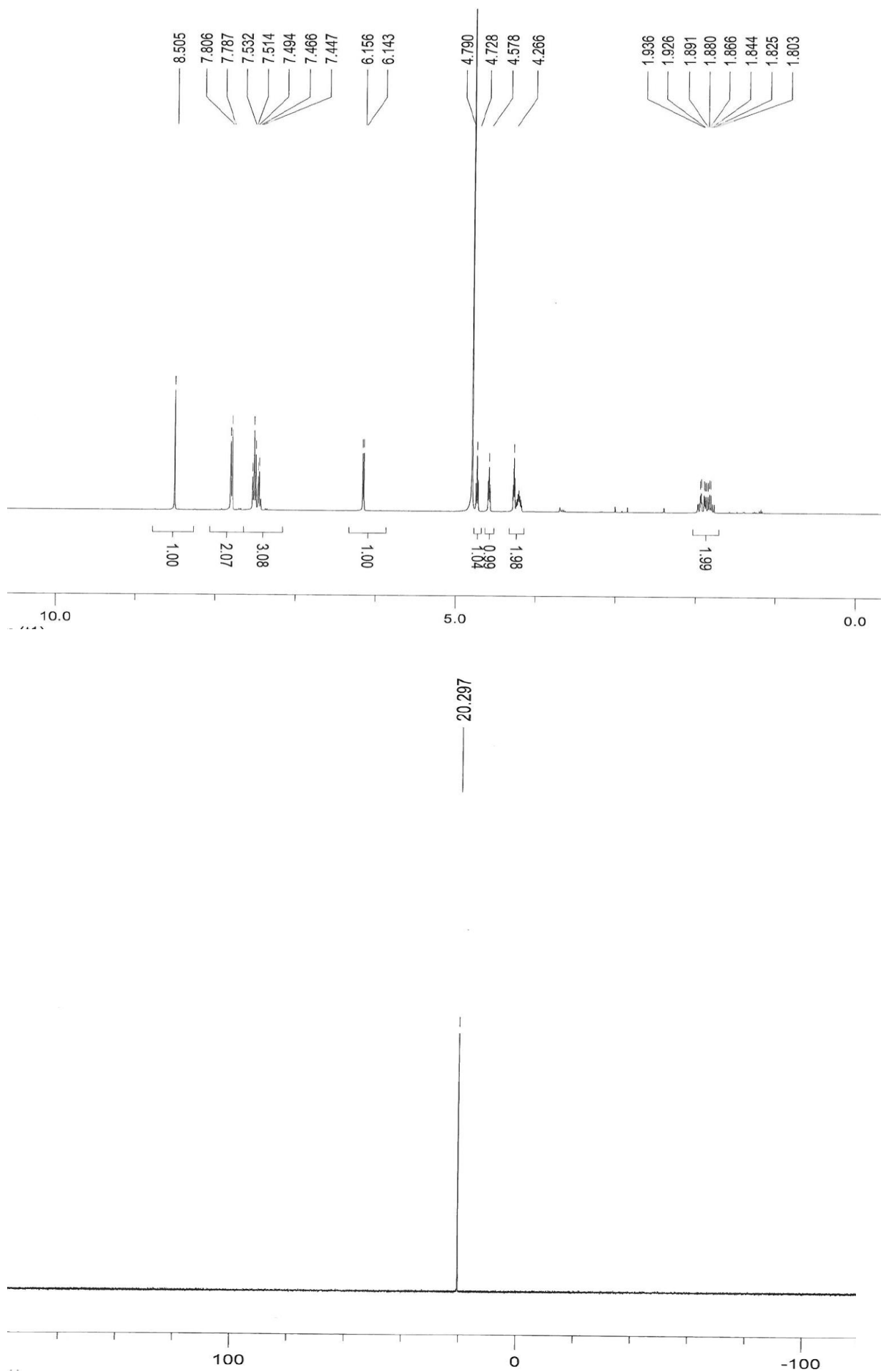
NOESY experiment



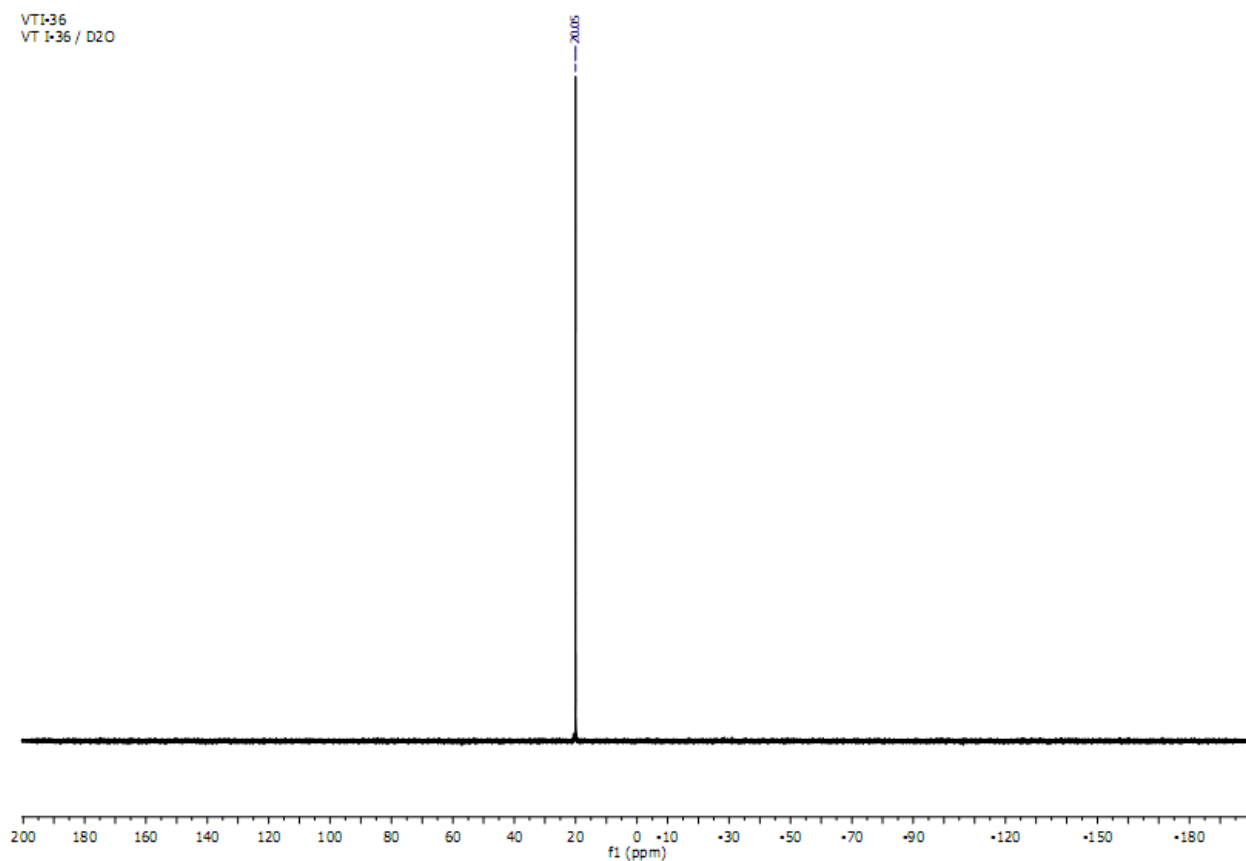
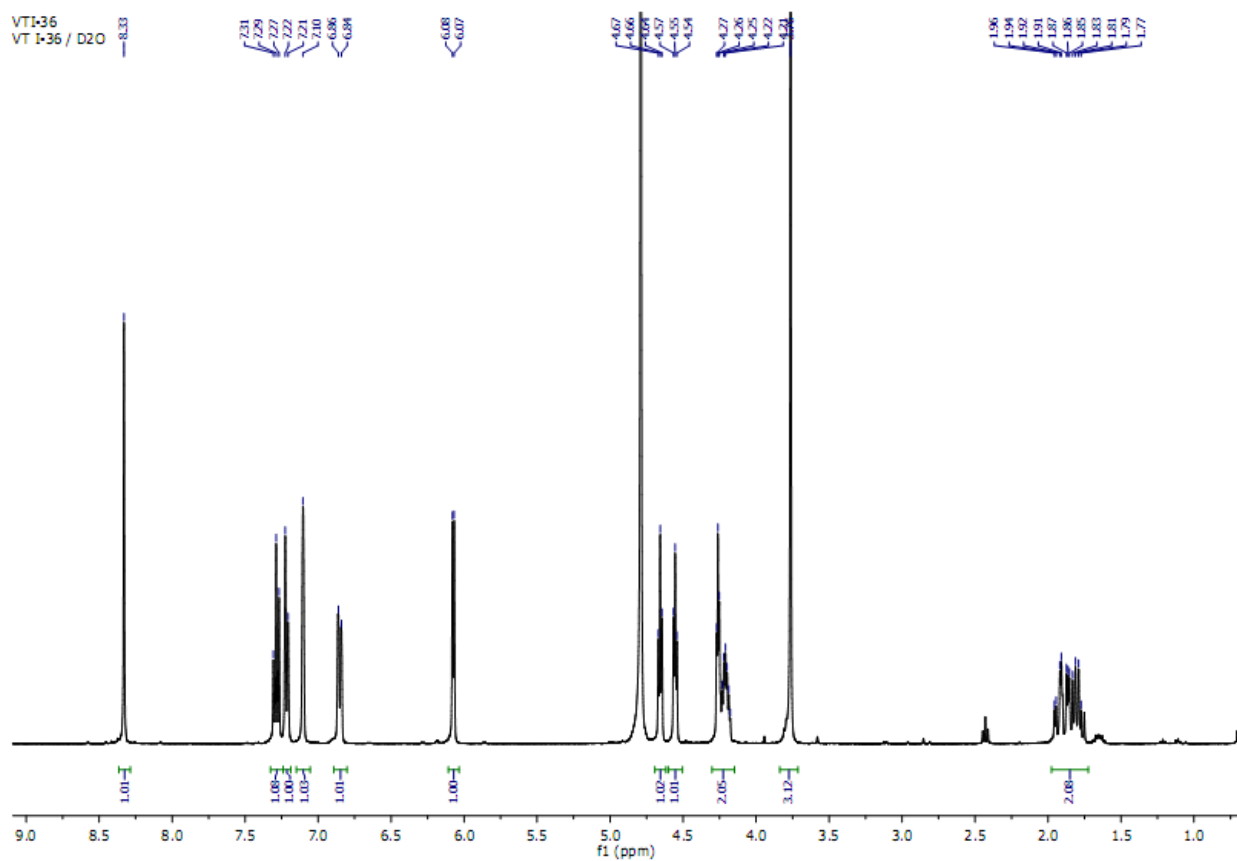
HMBC experiment



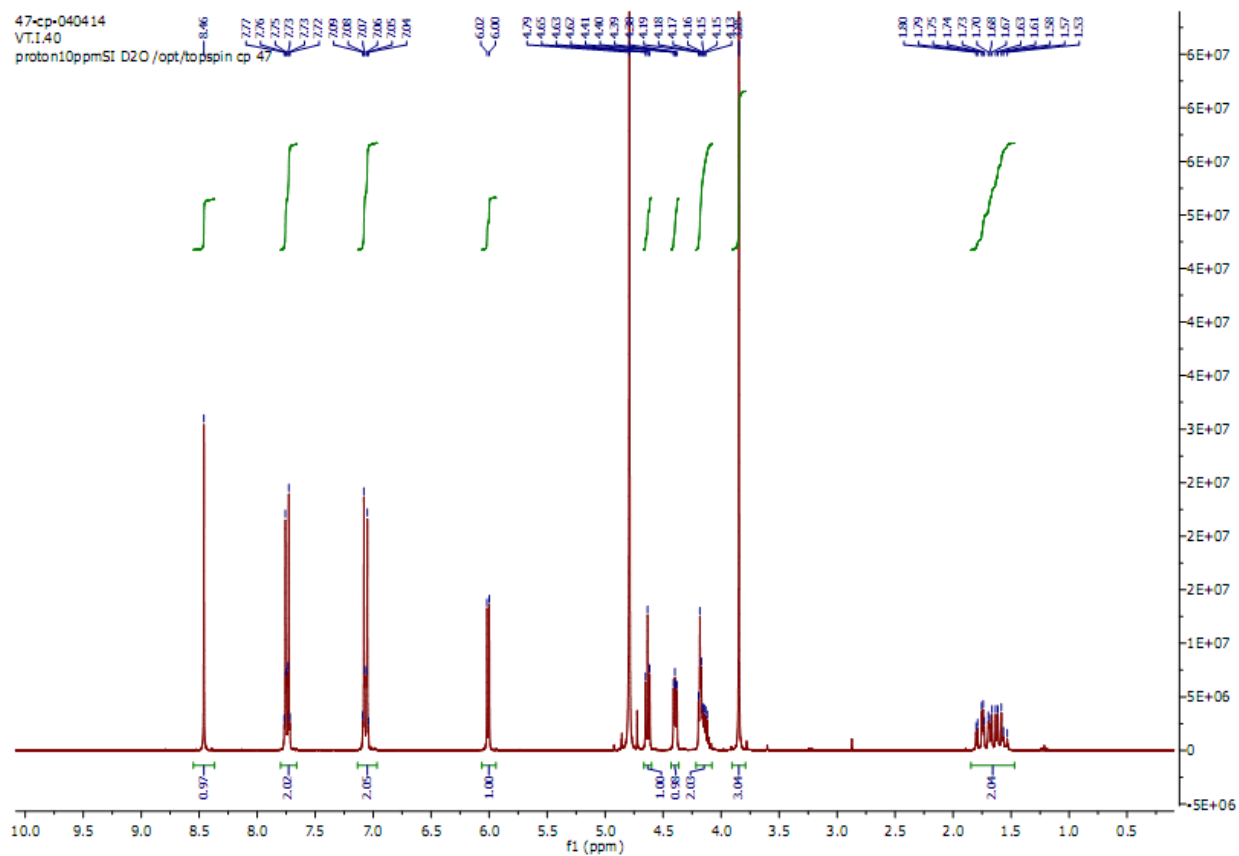
^1H NMR, ^{31}P NMR for Compound **1a**



^1H NMR, ^{31}P NMR for compound **1b**

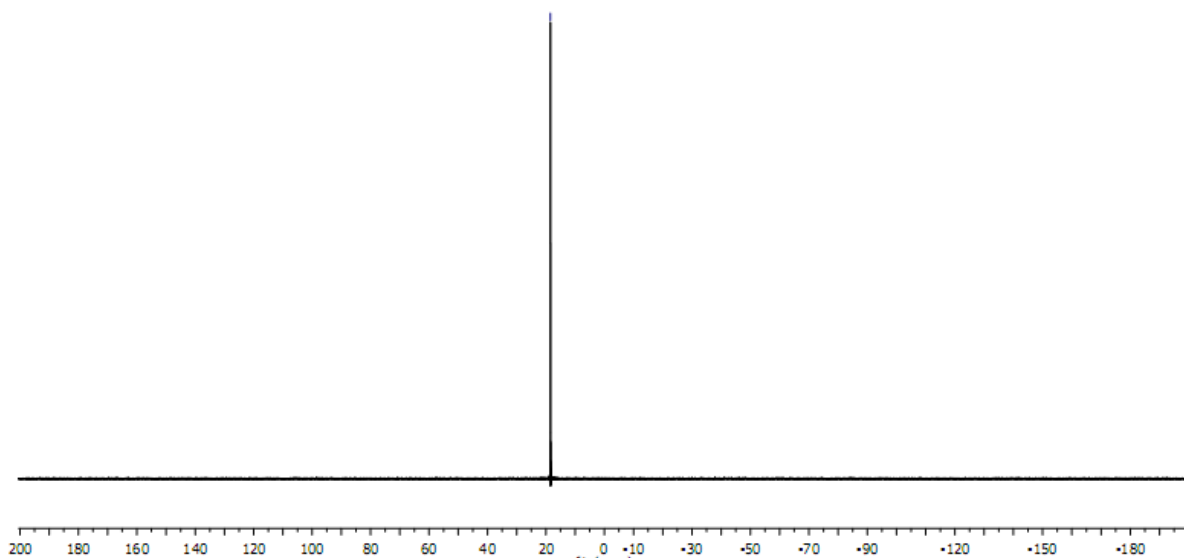


^1H NMR, ^{31}P NMR for compound **1c**

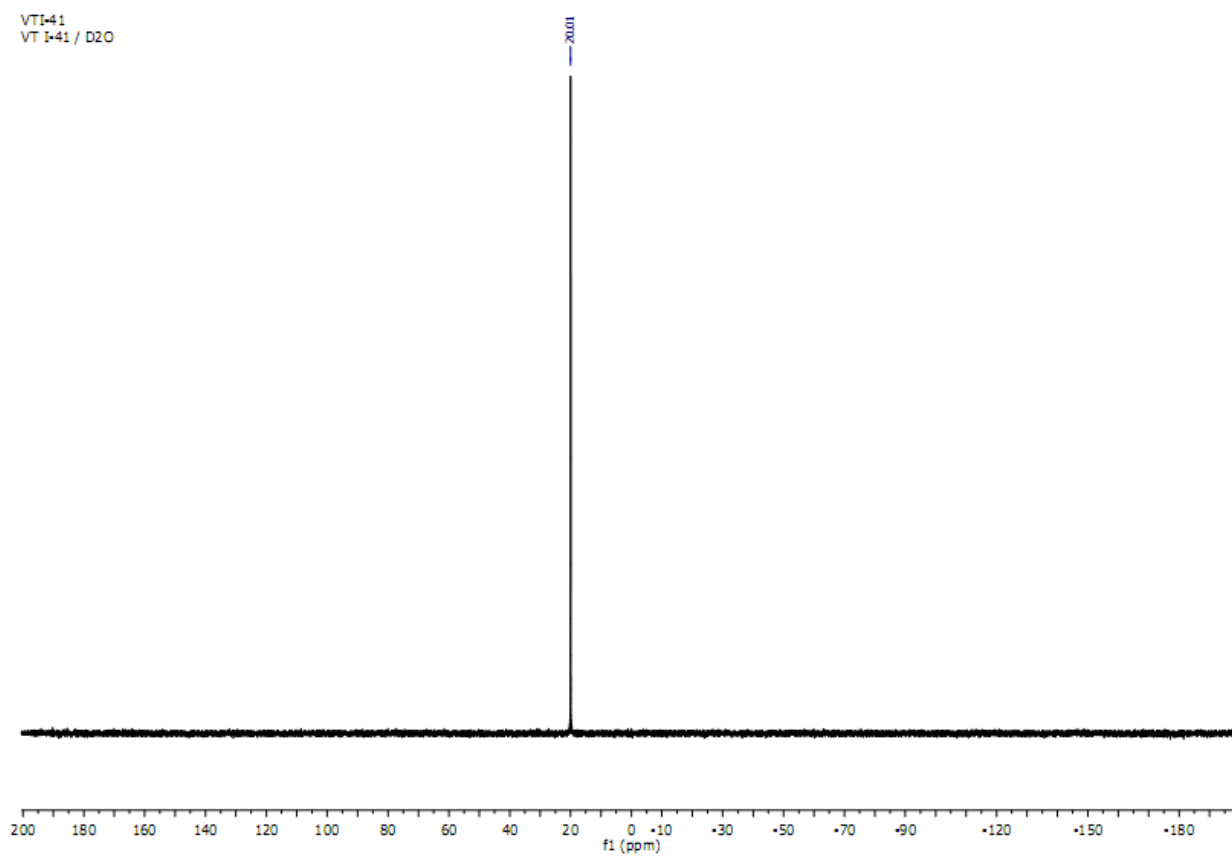
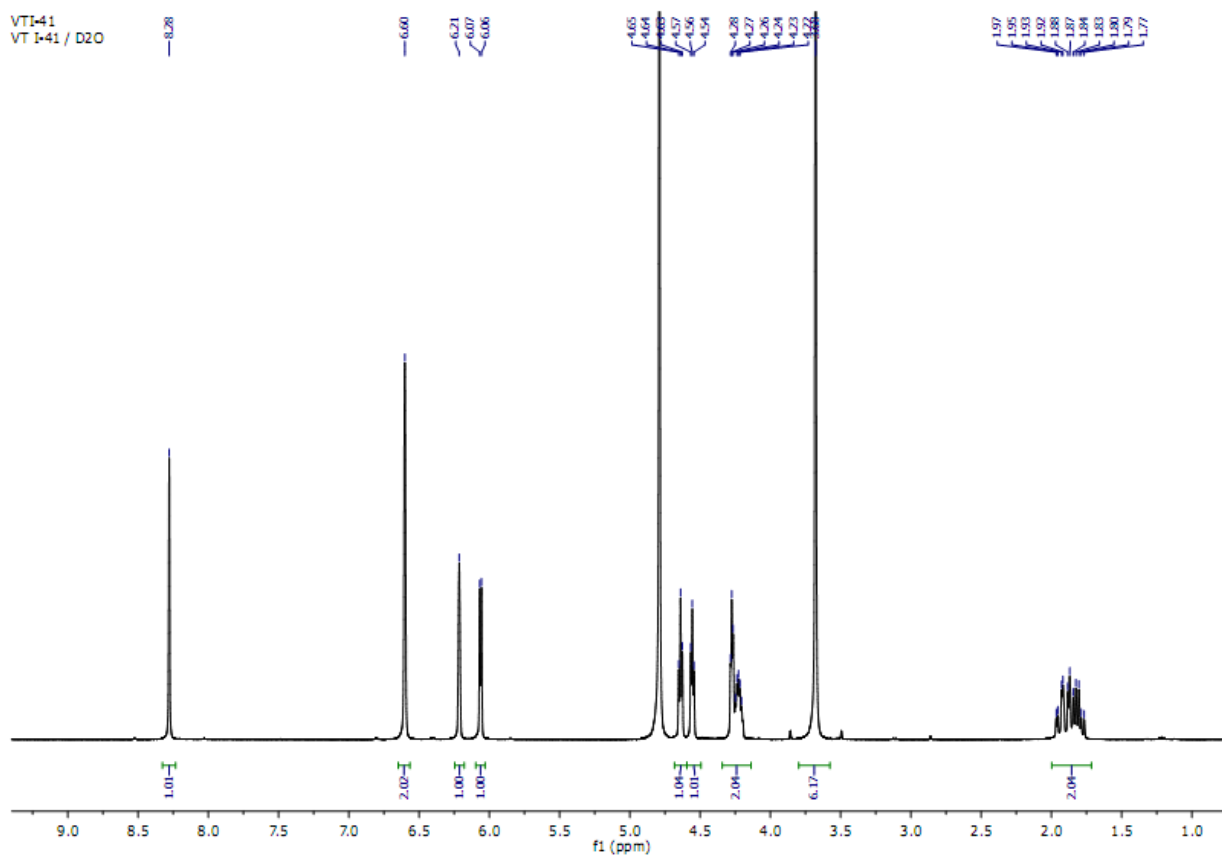


VT140 / D2O

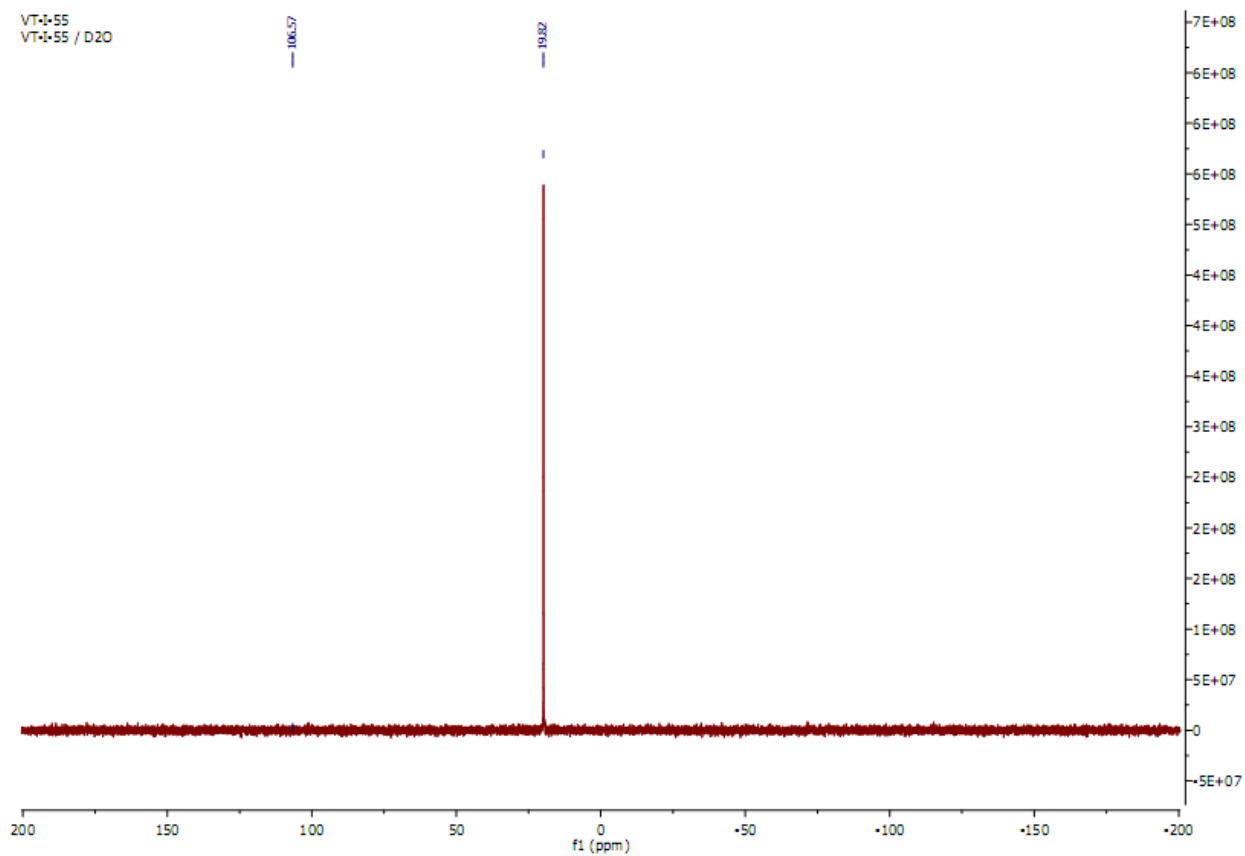
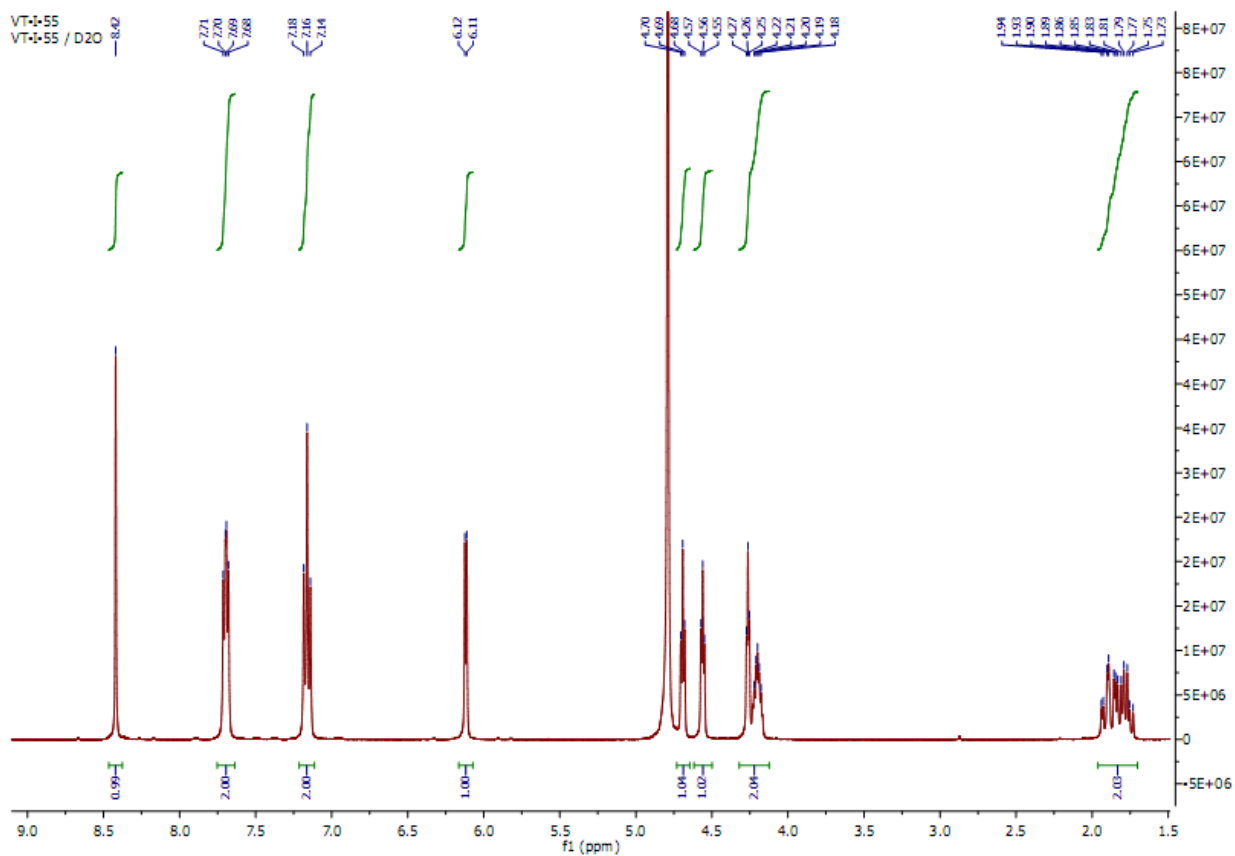
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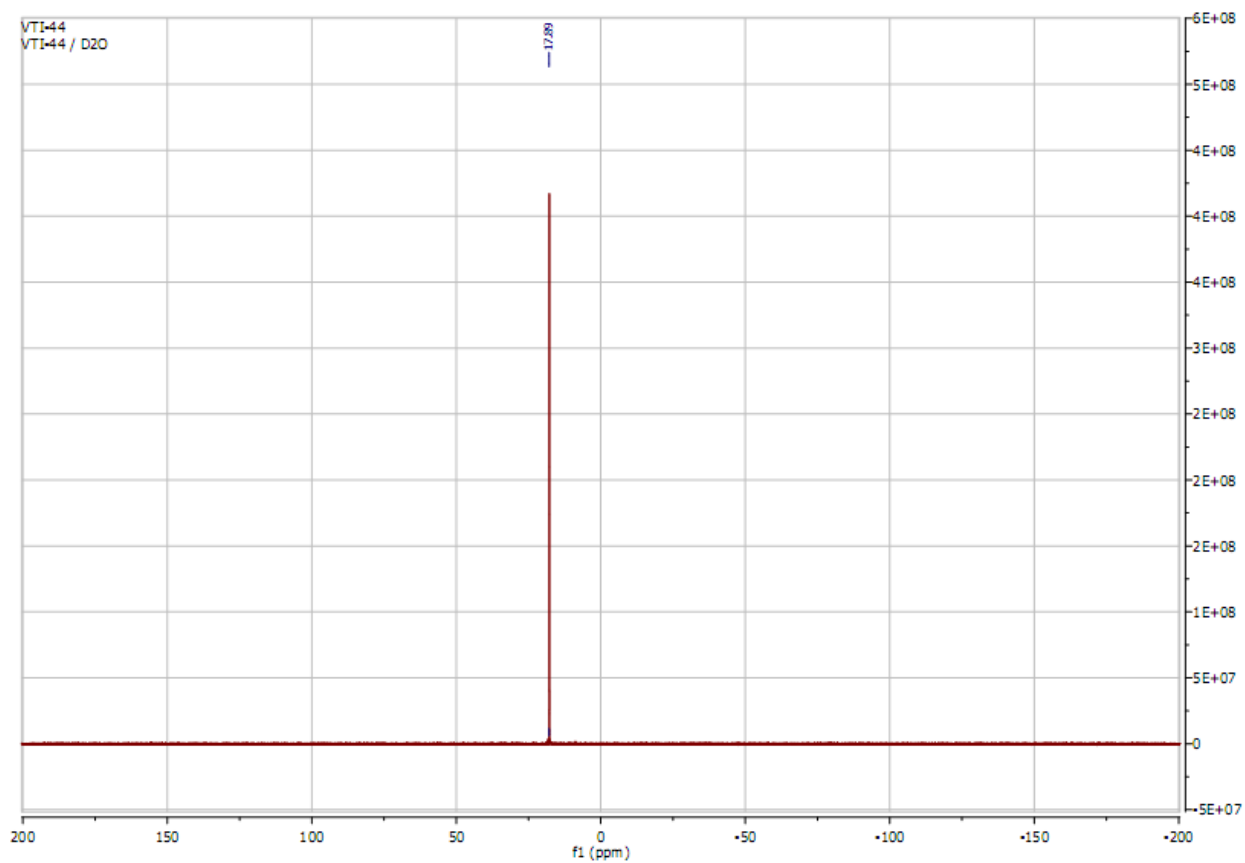
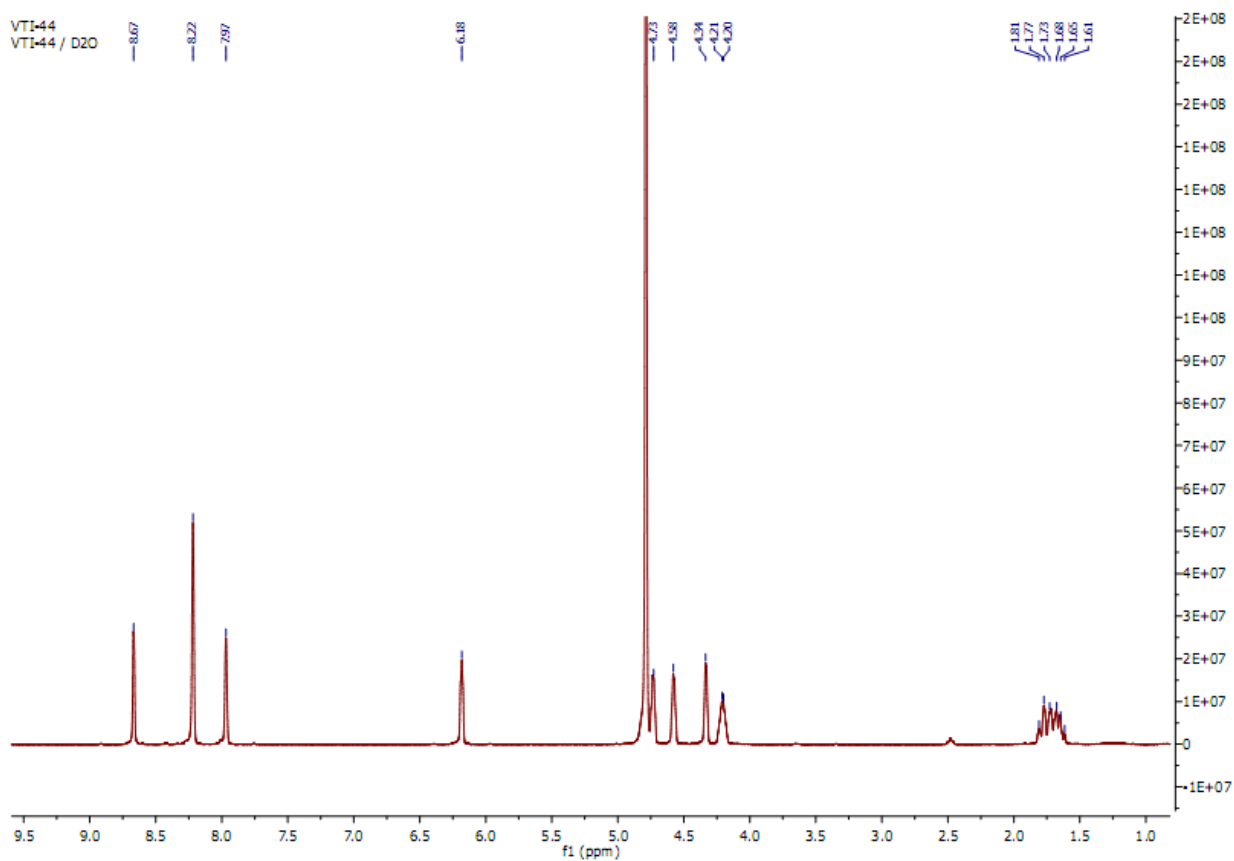
^1H NMR, ^{31}P NMR for compound **1d**



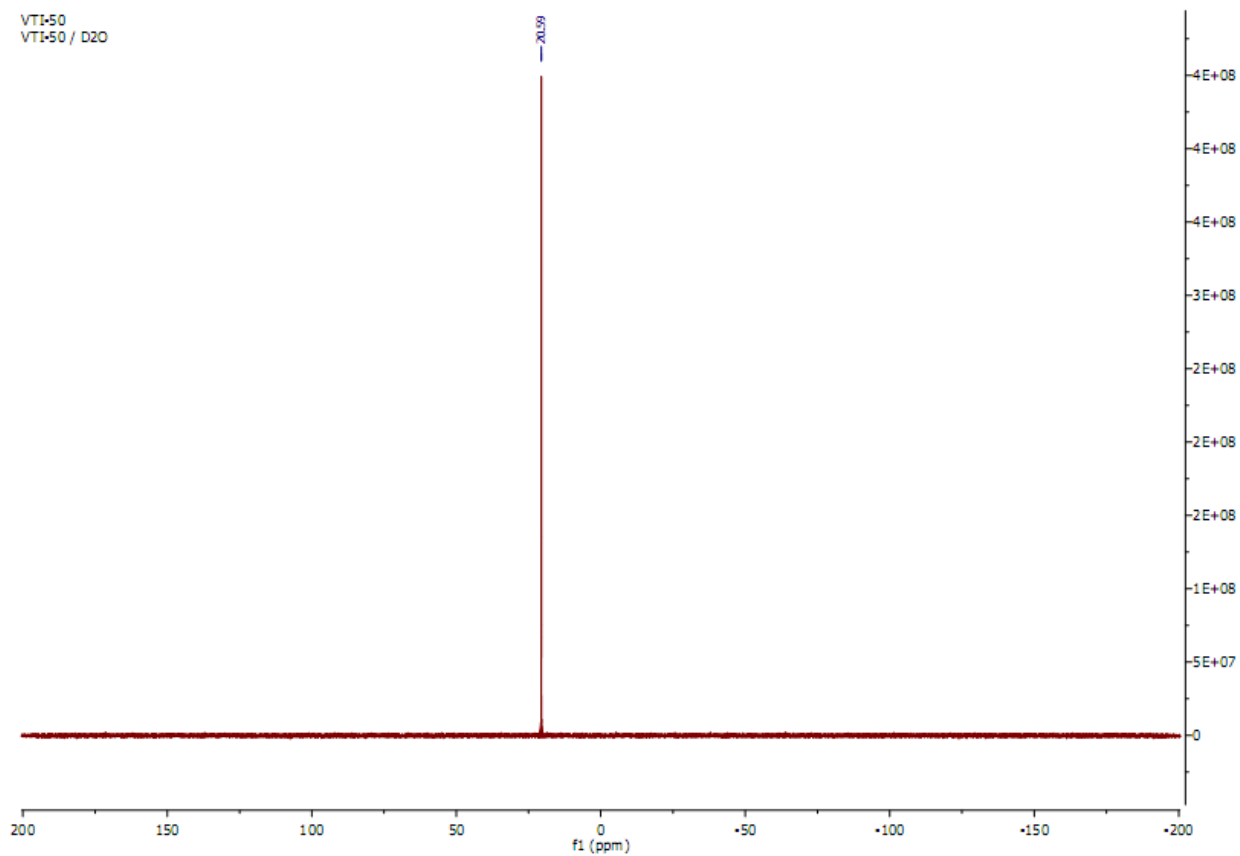
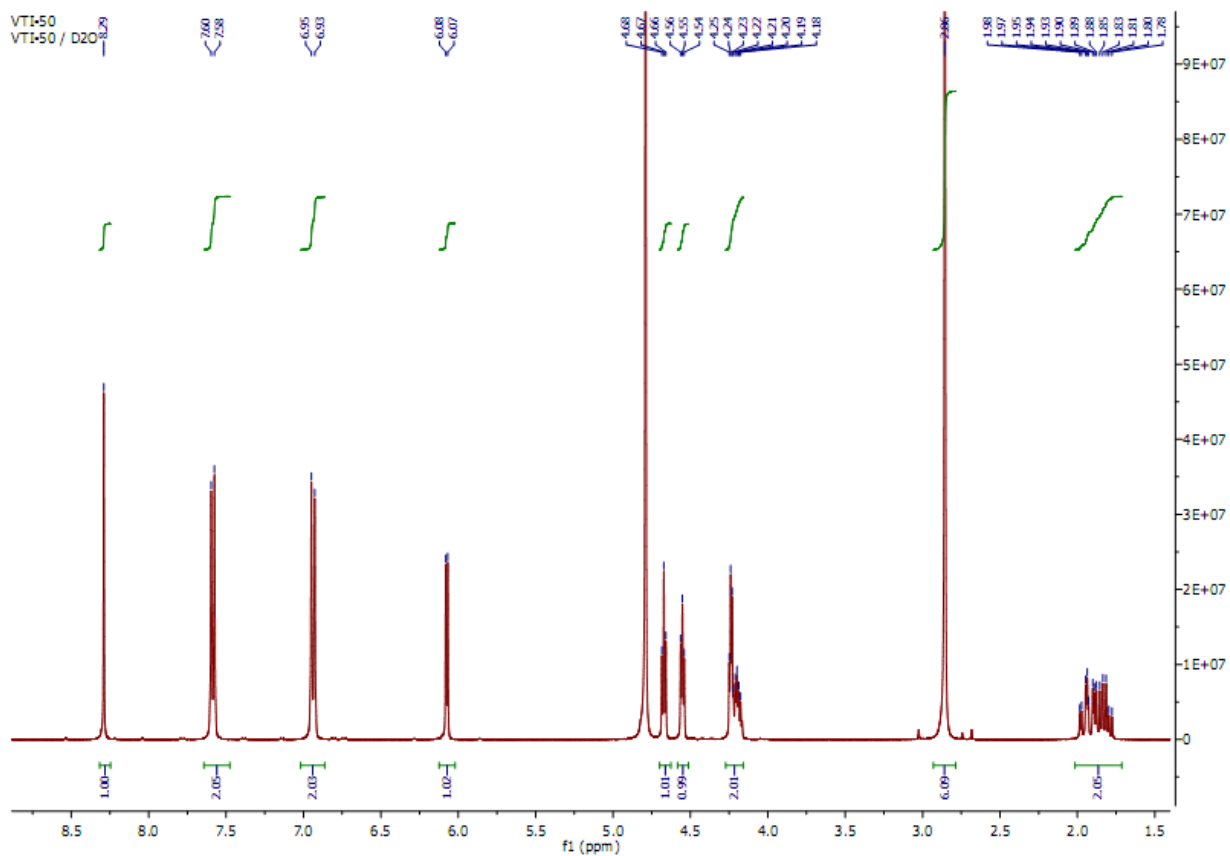
^1H NMR, ^{31}P NMR for compound **1e**



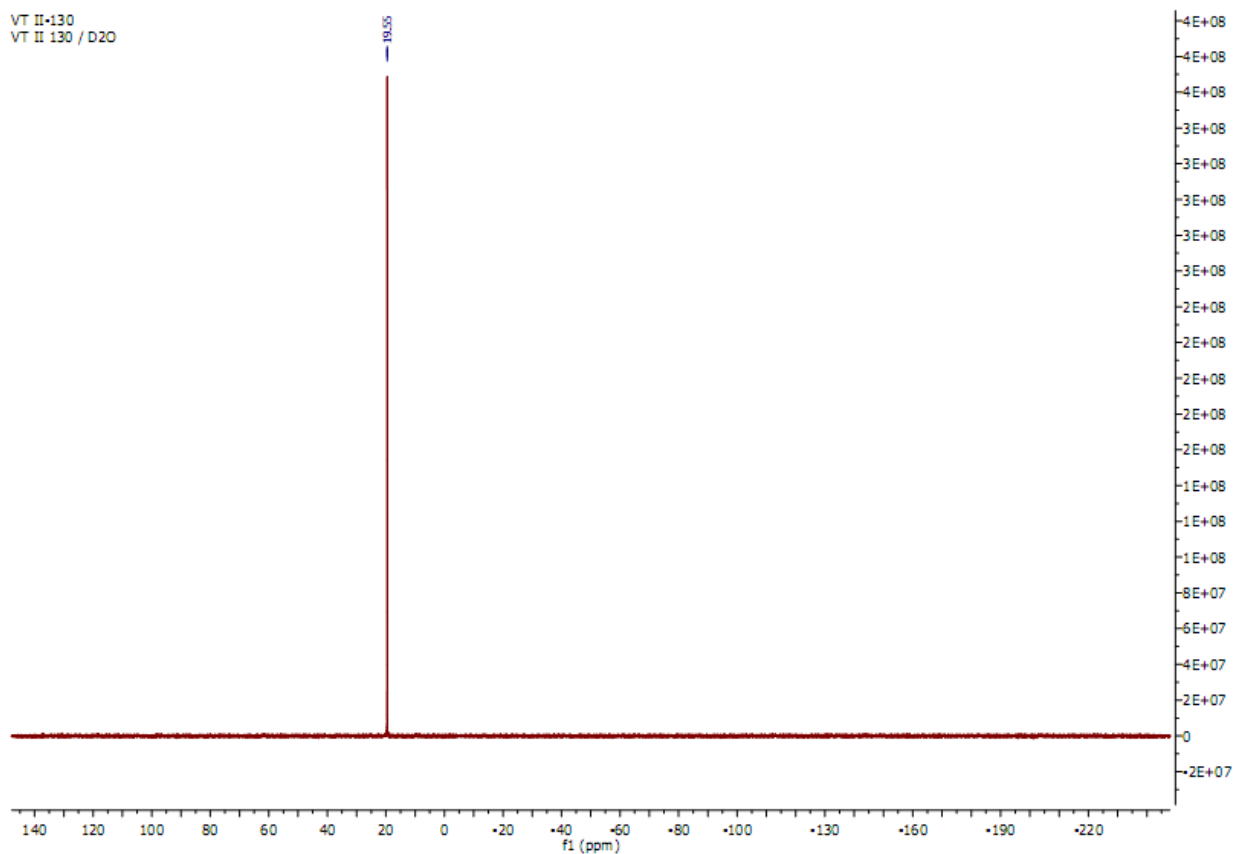
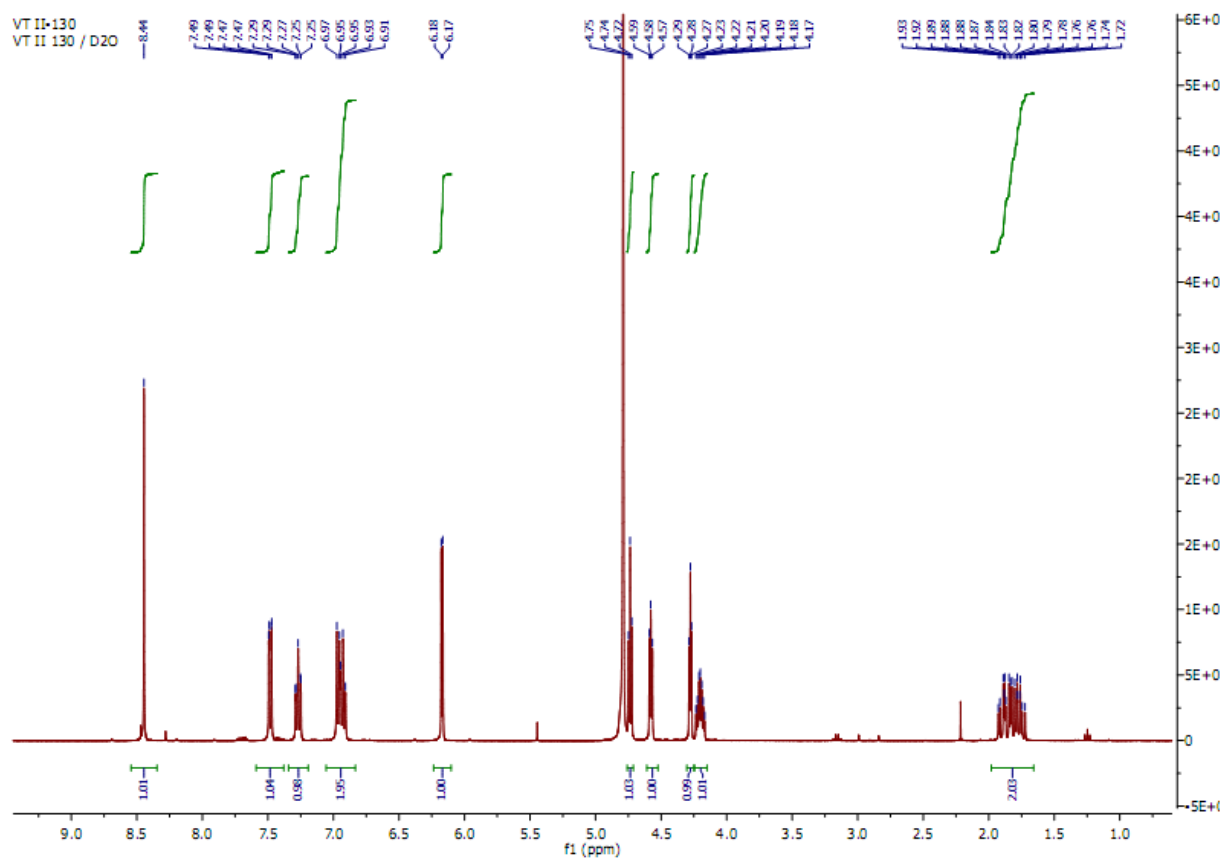
^1H NMR, ^{31}P NMR for compound **1f**



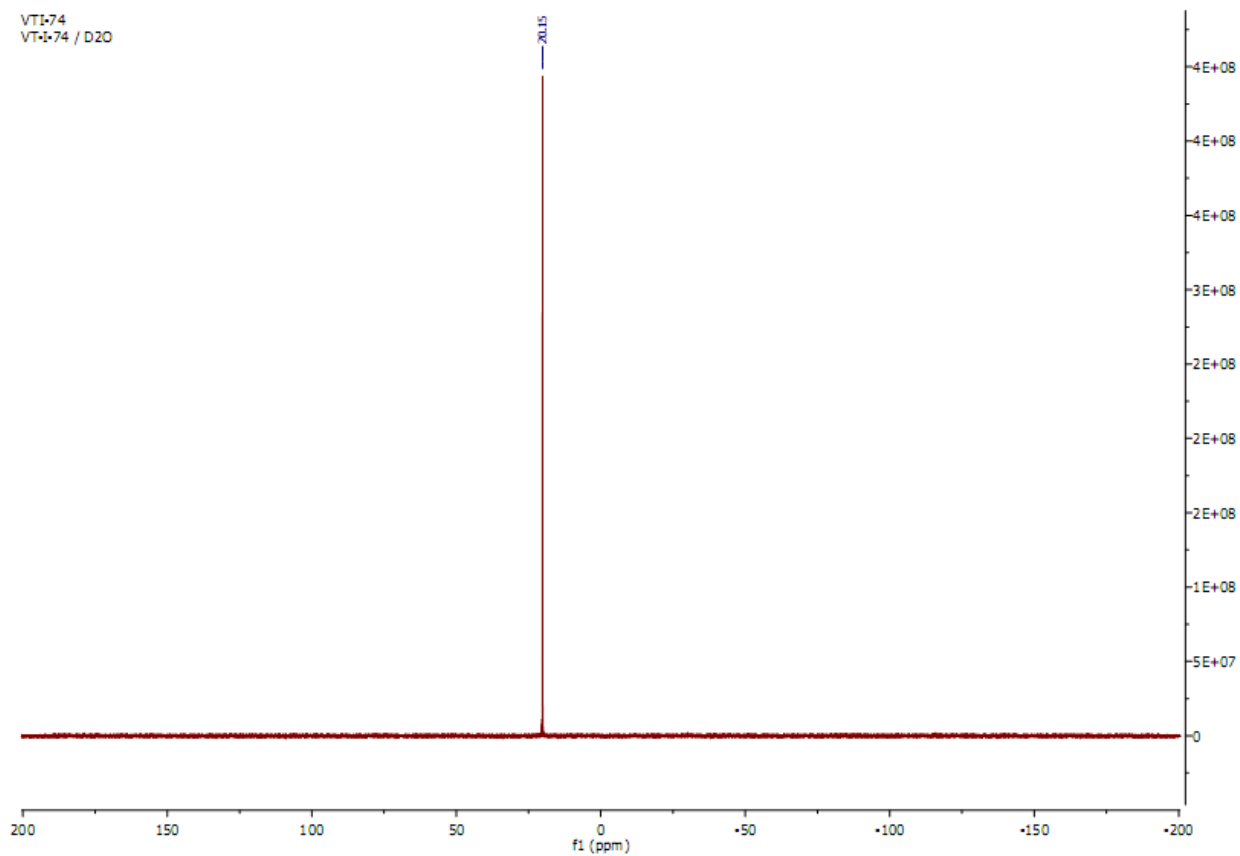
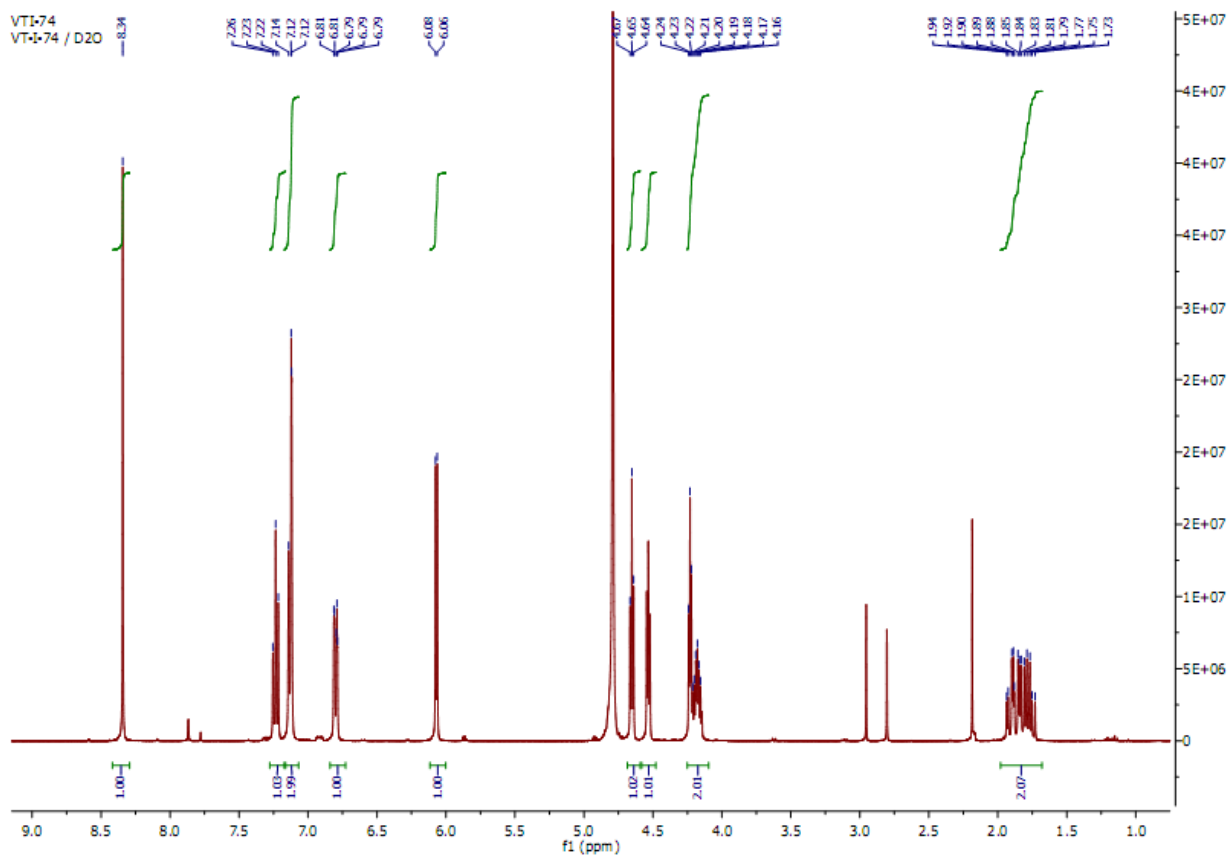
^1H NMR, ^{31}P NMR for compound **1g**



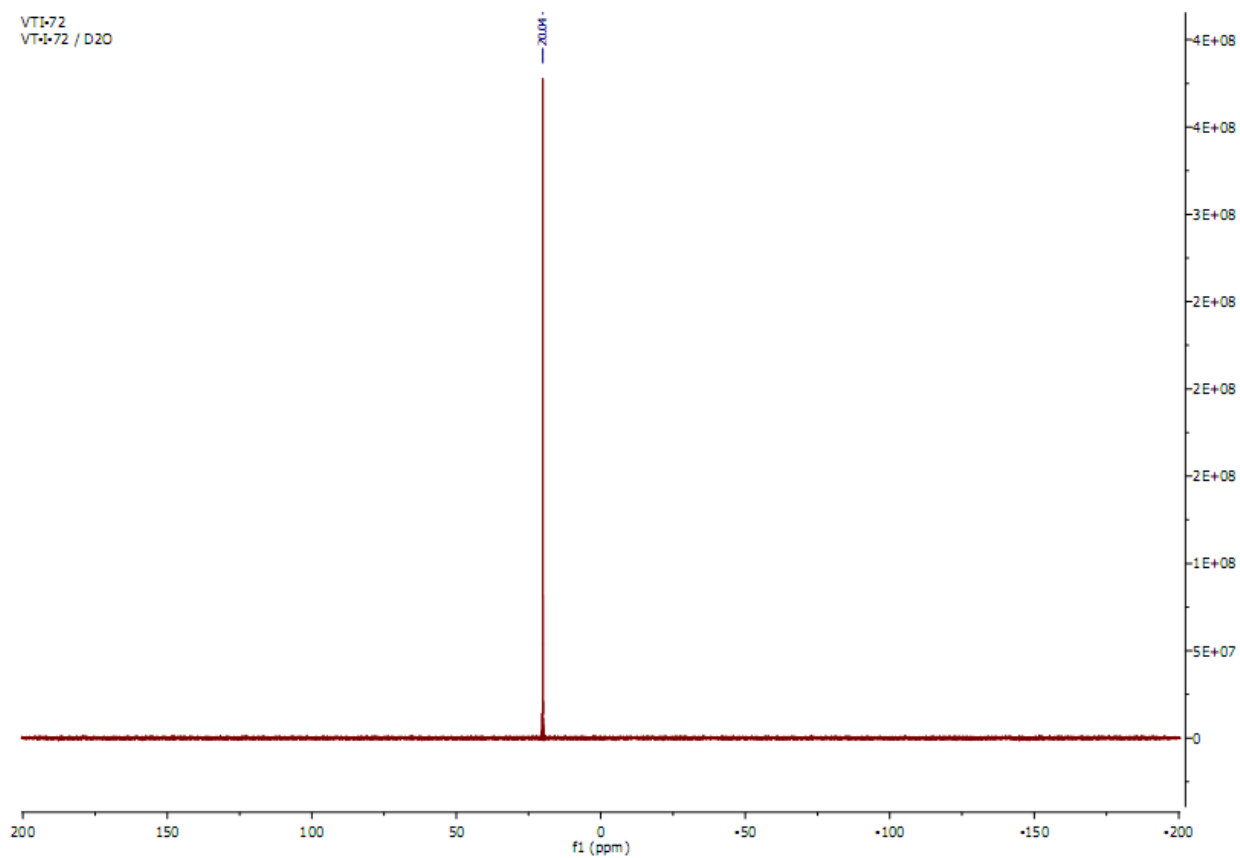
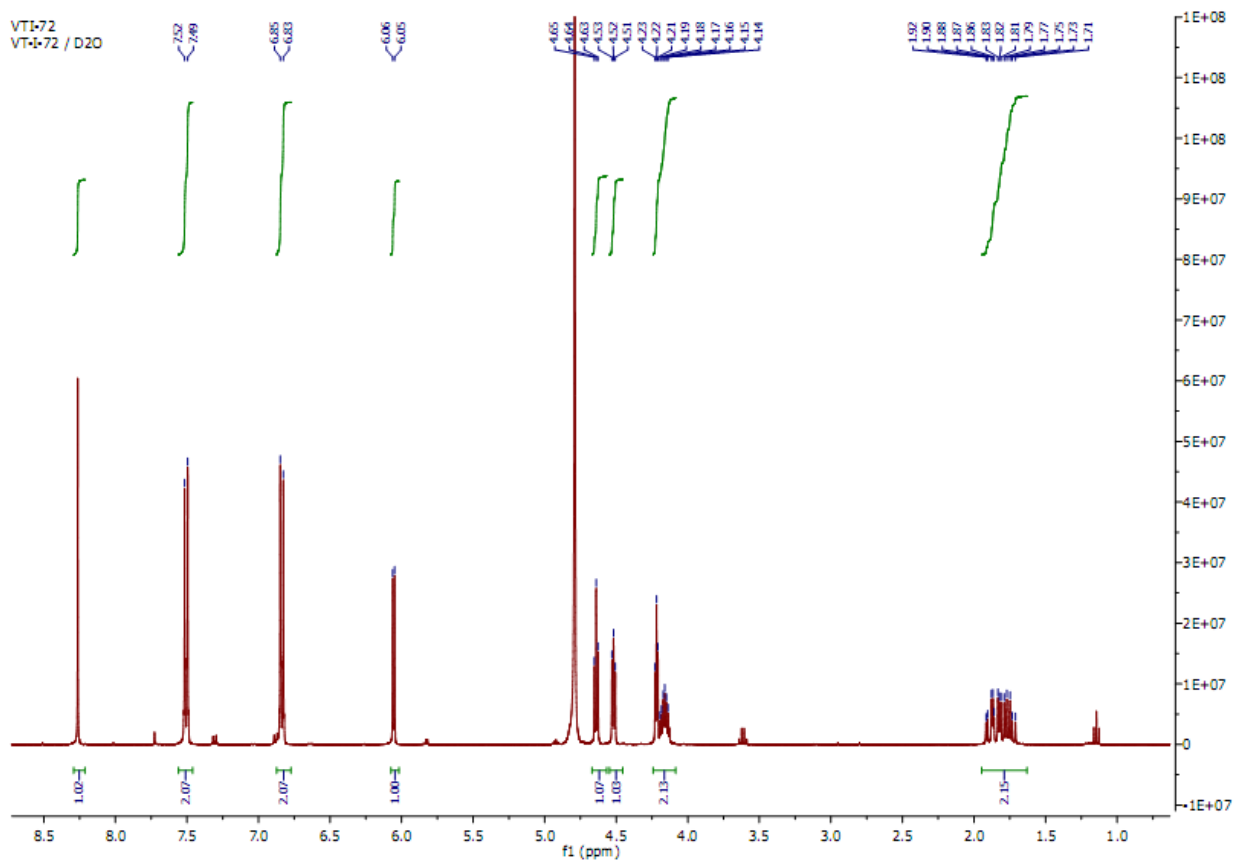
^1H NMR, ^{31}P NMR for compound **1h**



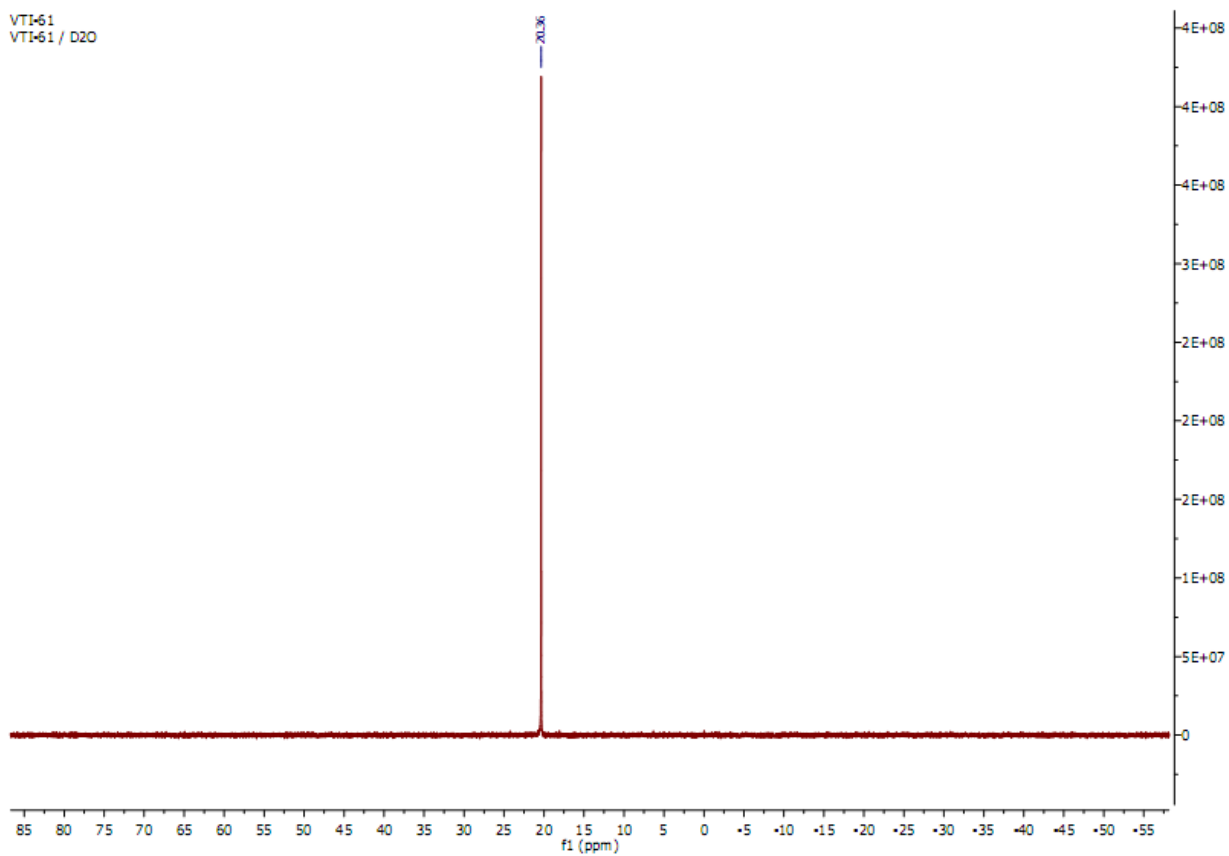
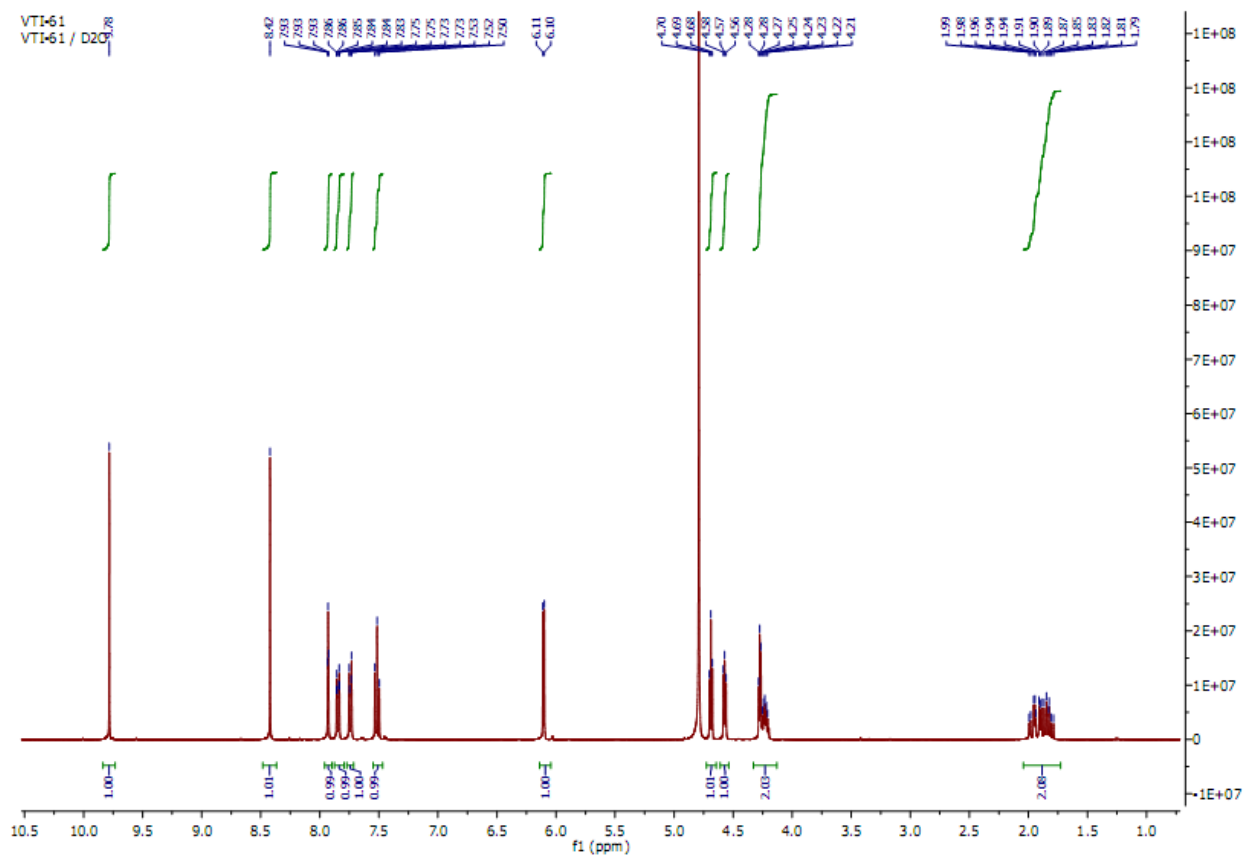
^1H NMR, ^{31}P NMR for compound **1i**



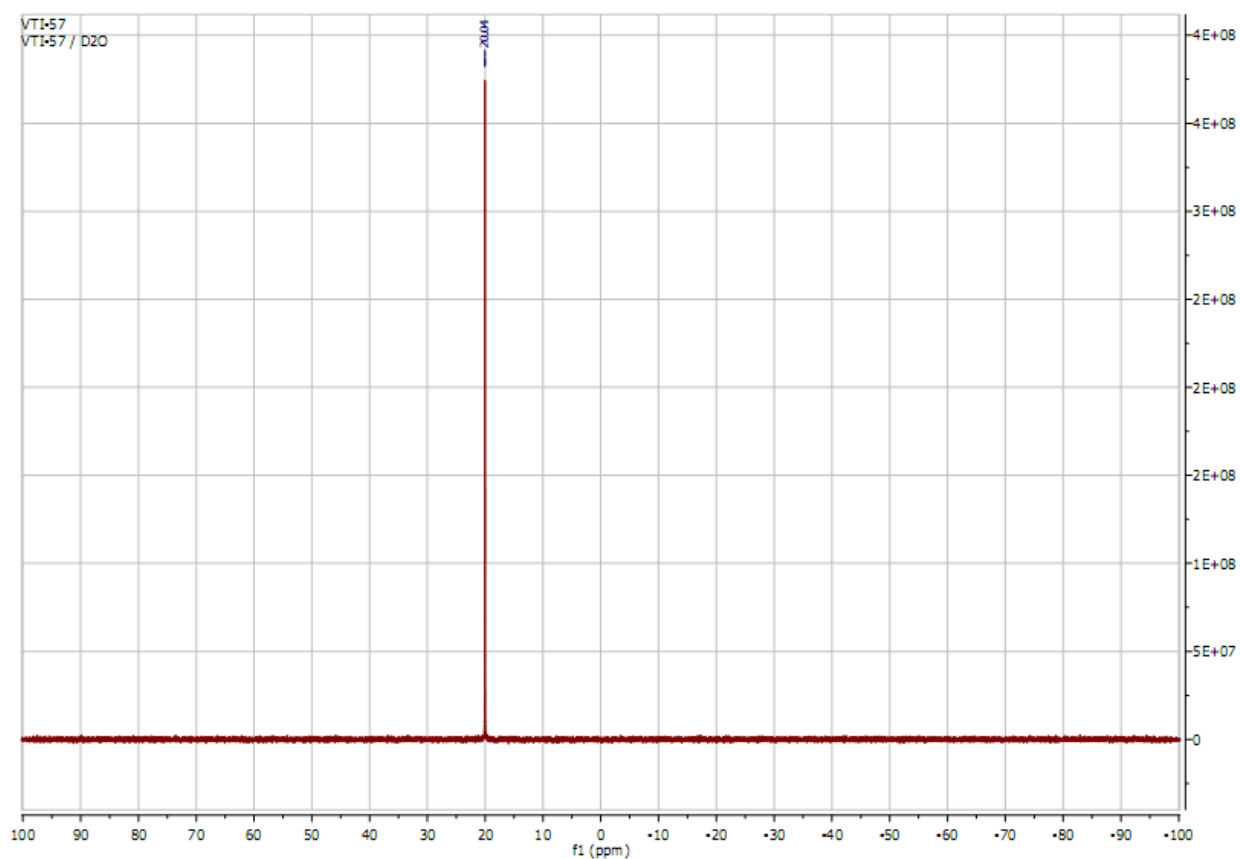
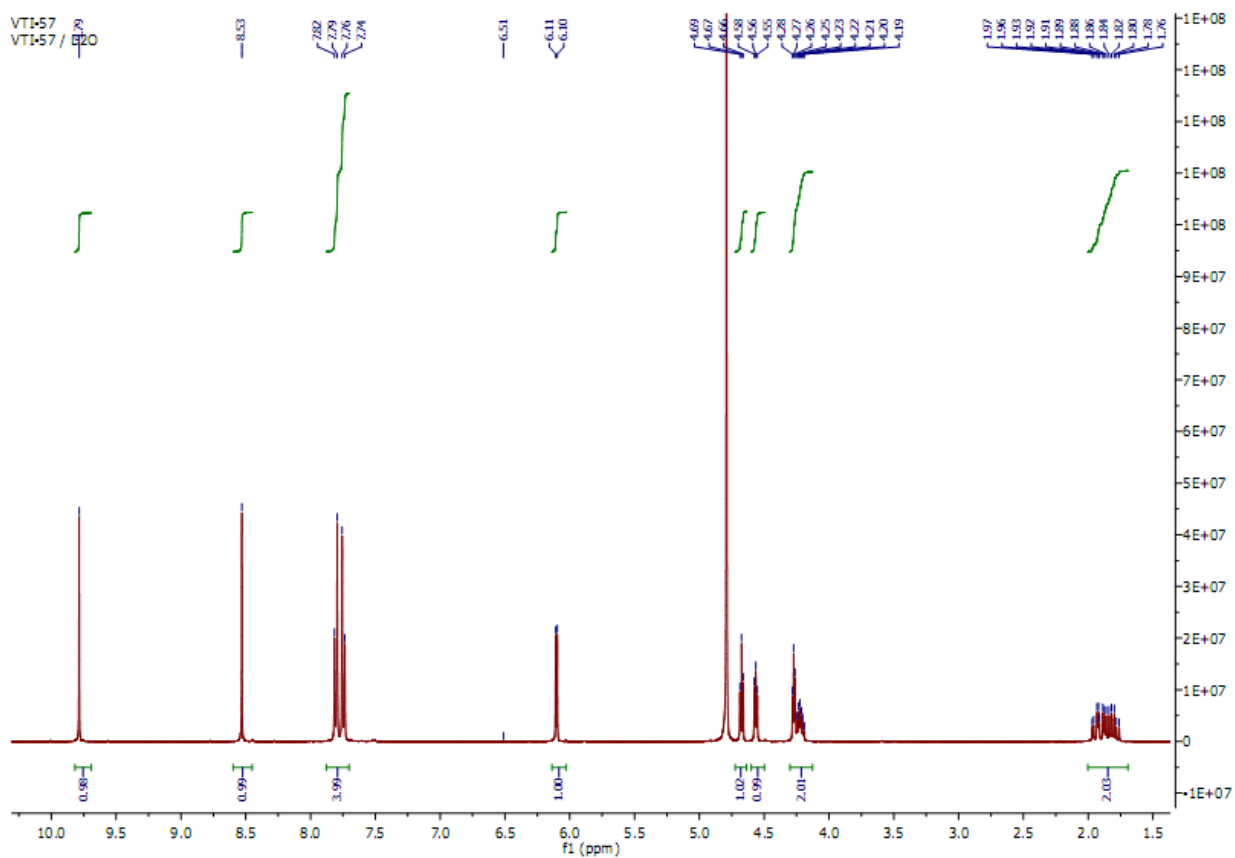
^1H NMR, ^{31}P NMR for compound **1j**



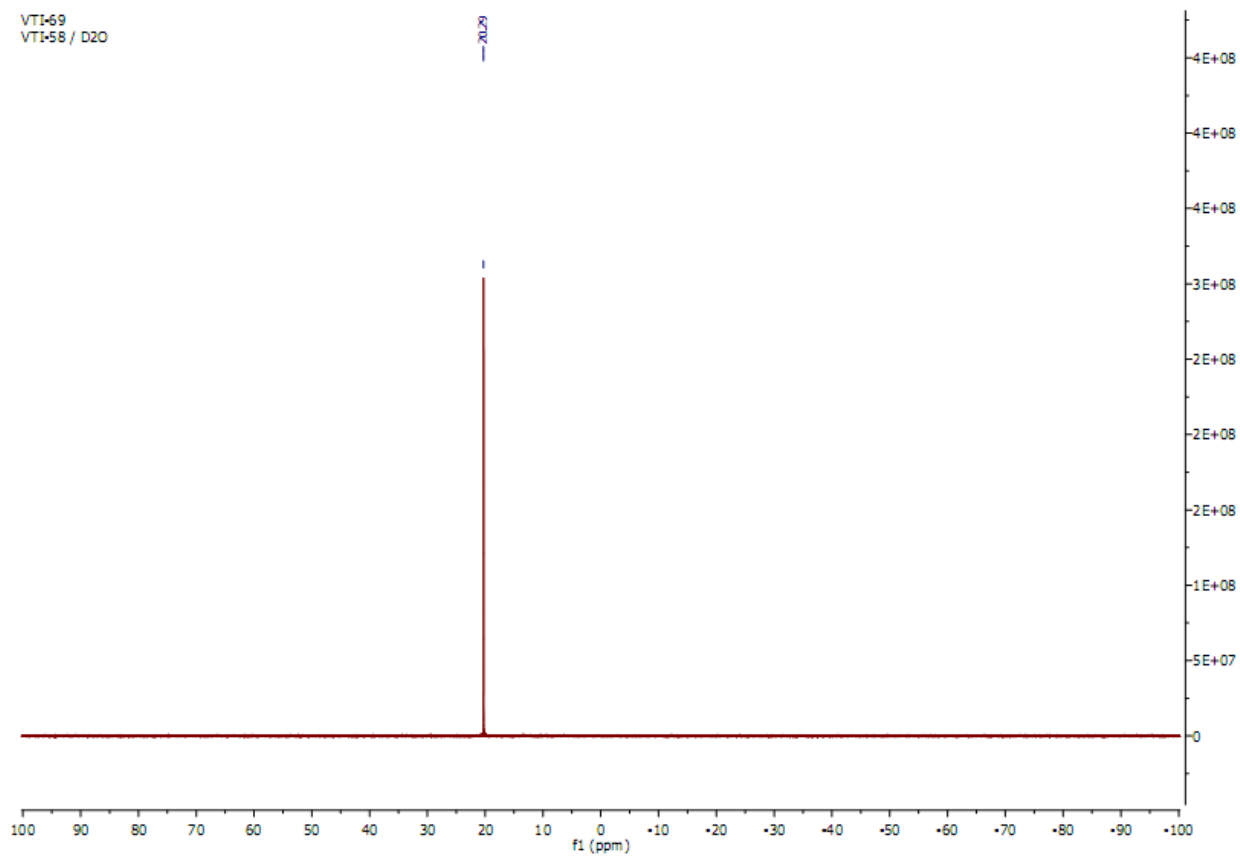
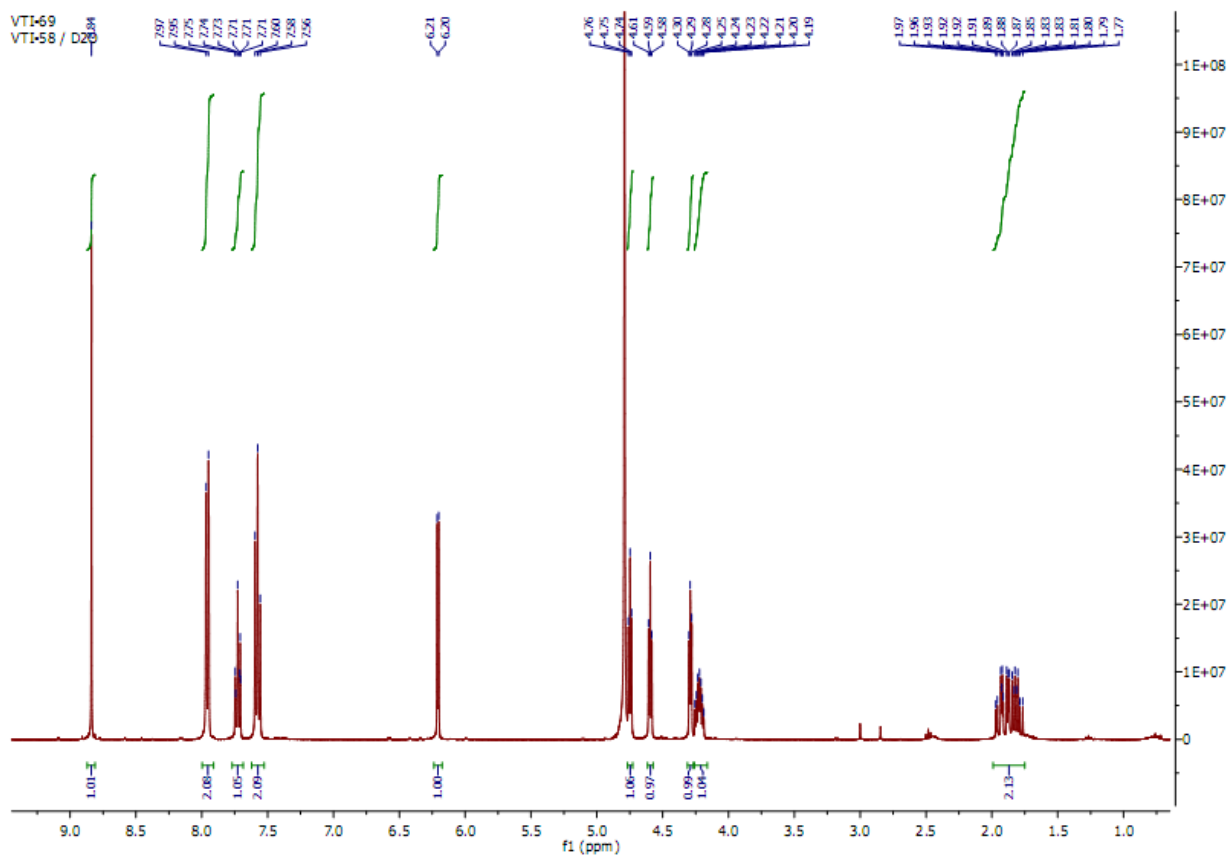
^1H NMR, ^{31}P NMR for compound **1k**



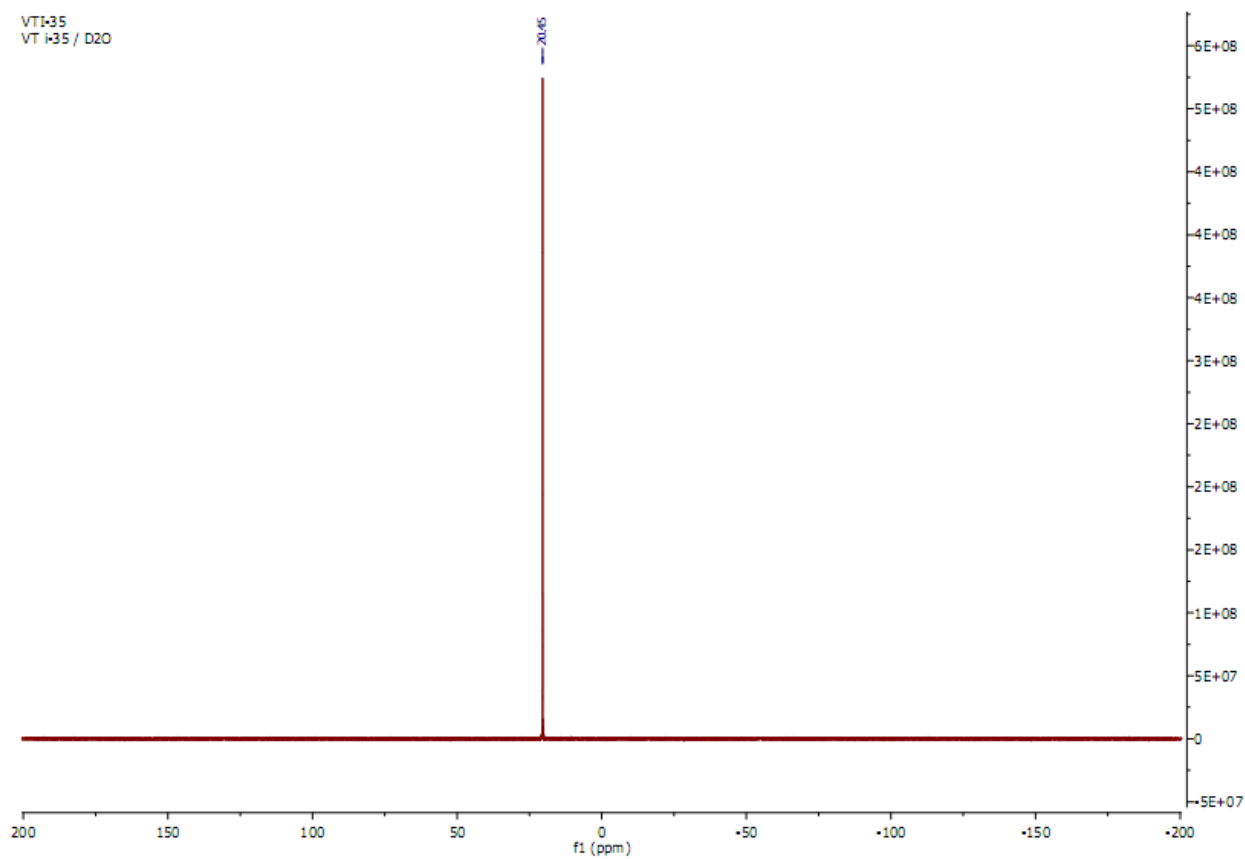
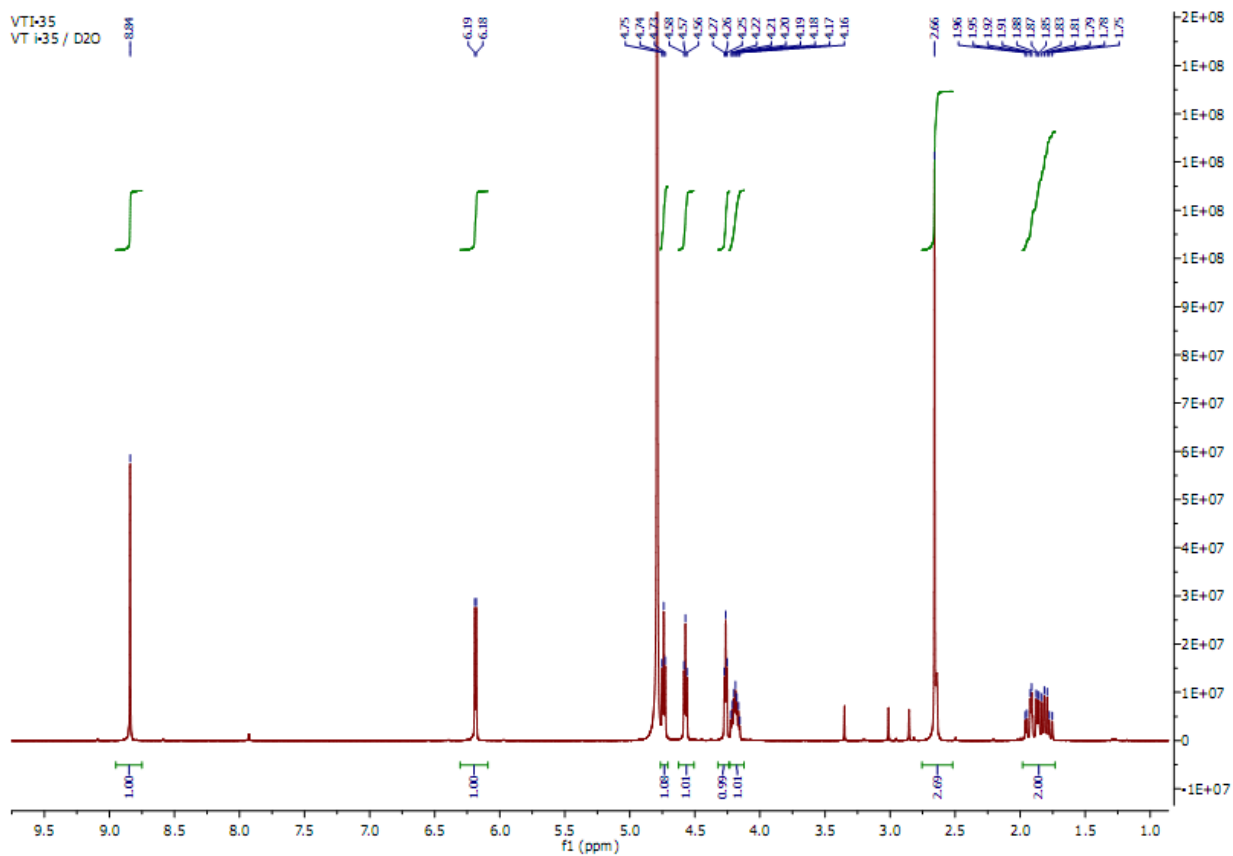
^1H NMR, ^{31}P NMR for compound 1I



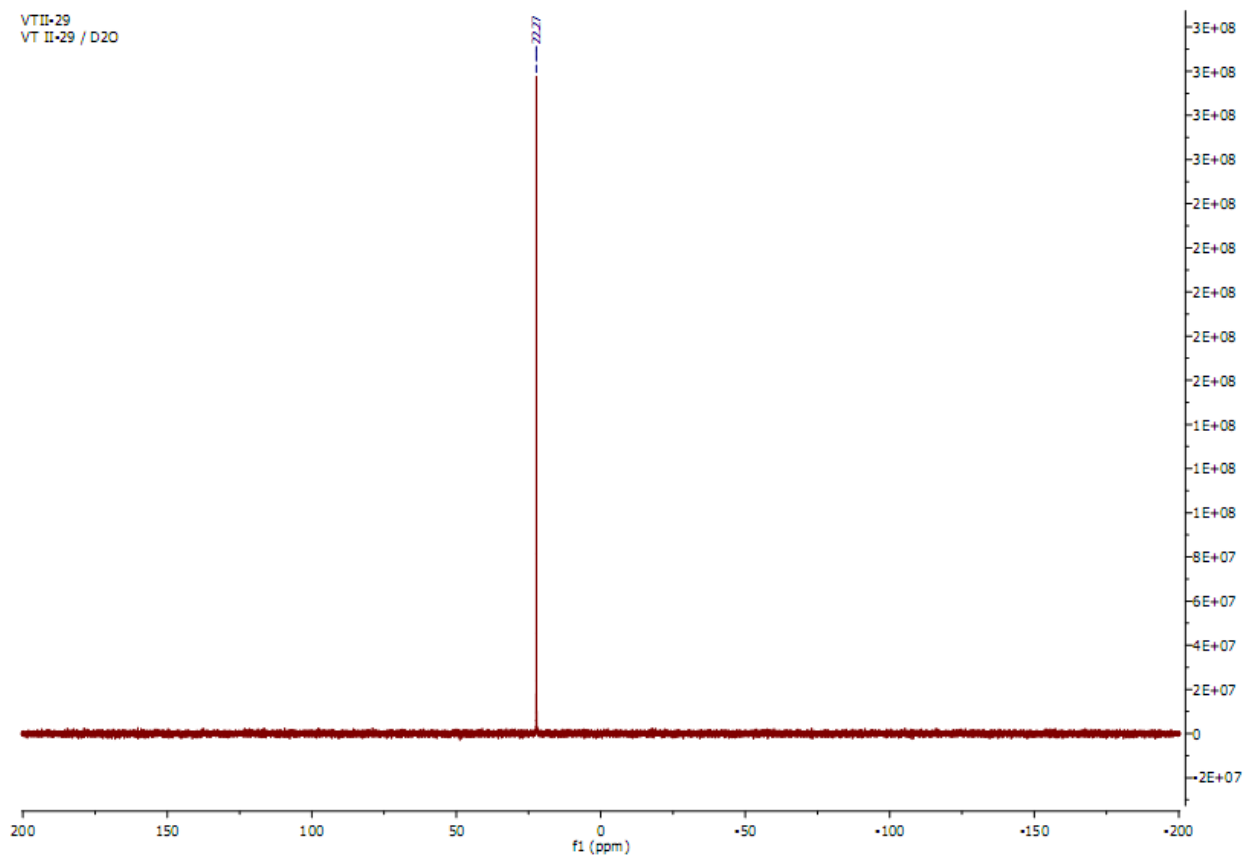
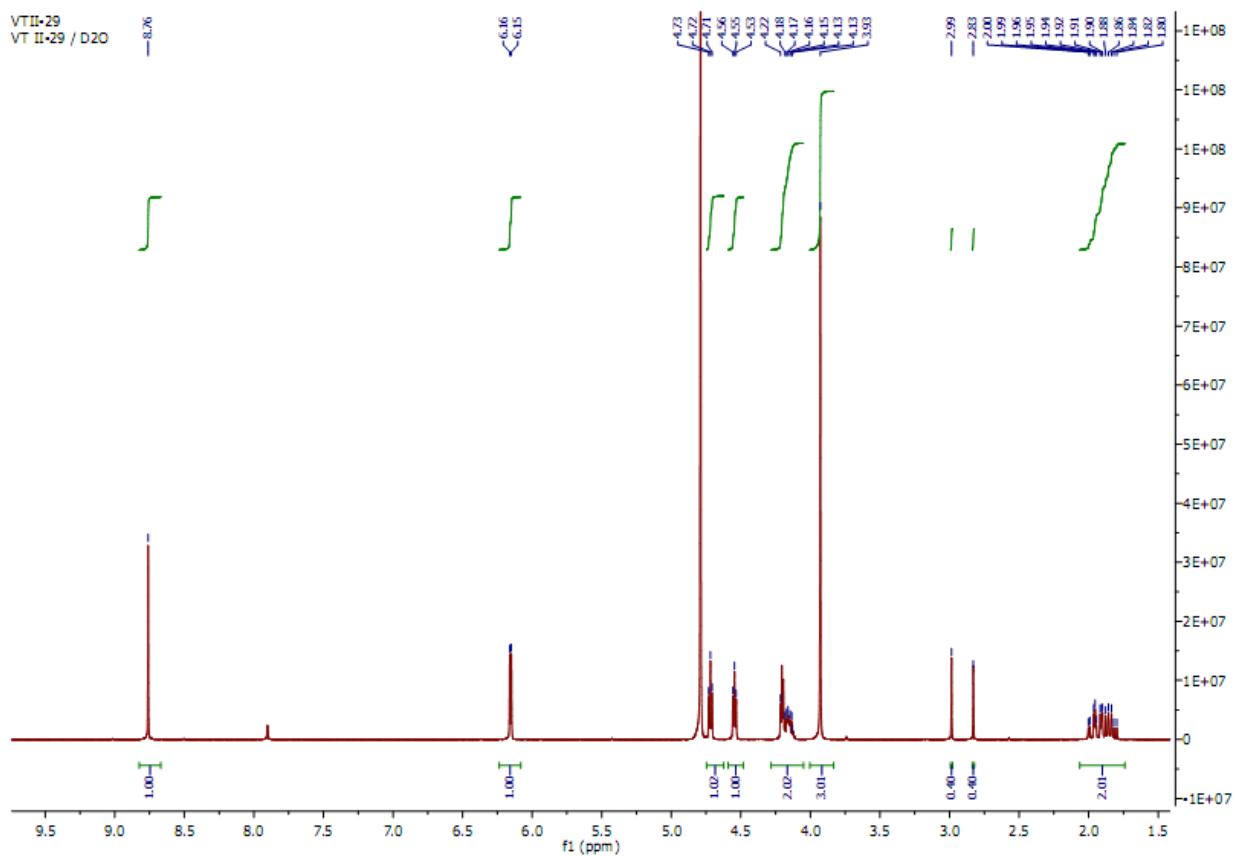
^1H NMR, ^{31}P NMR for compound **1m**



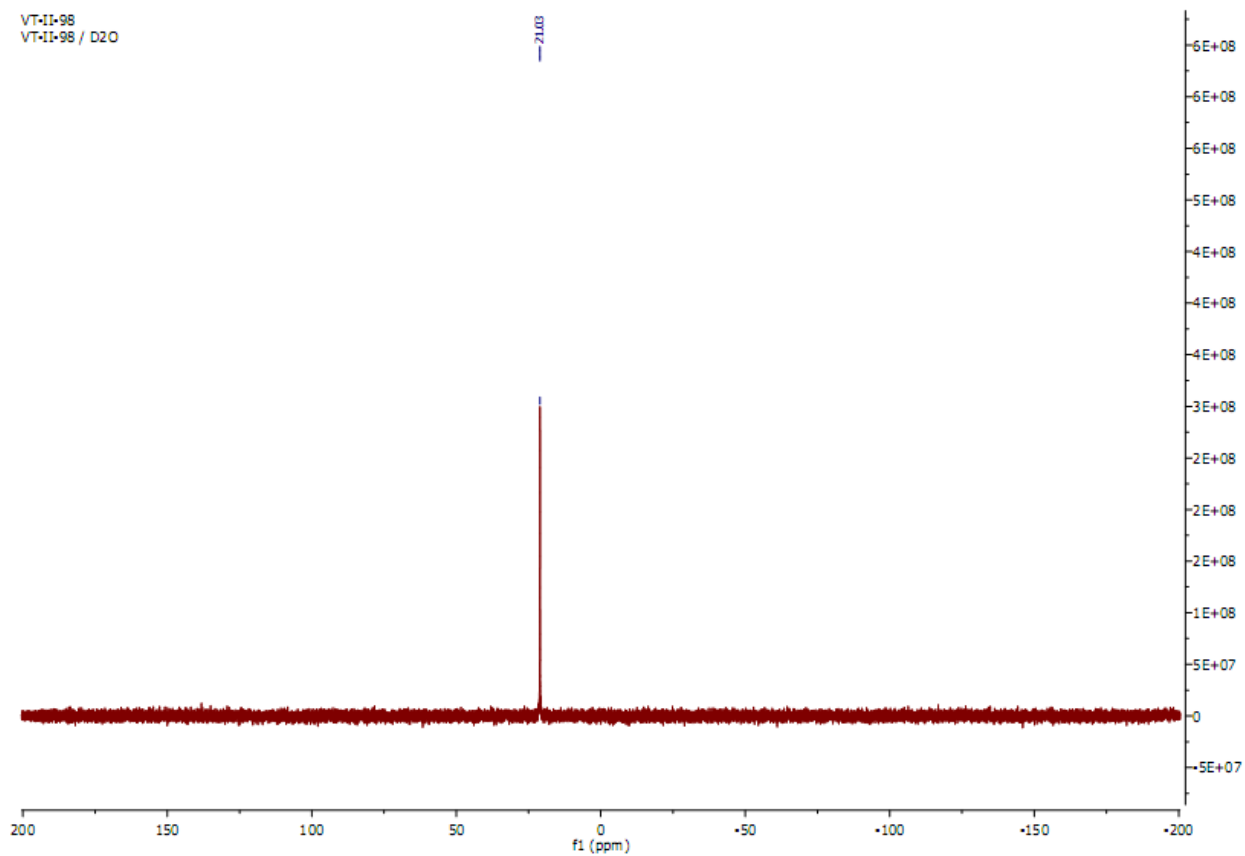
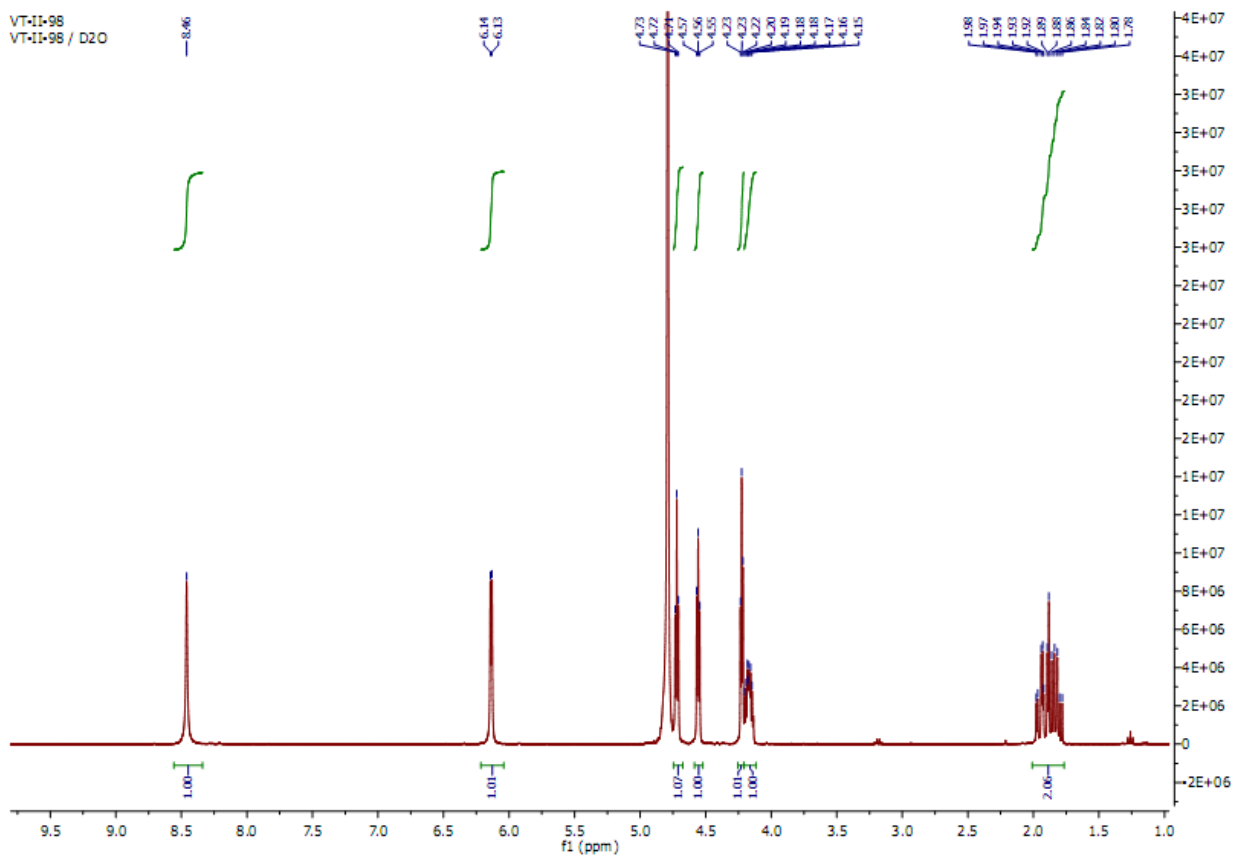
^1H NMR, ^{31}P NMR for compound **1n**



^1H NMR, ^{31}P NMR for compound **1o**



^1H NMR, ^{31}P NMR for compound **1p**



^1H NMR, ^{31}P NMR for compound **1q**

