

Supporting Information
for
Cyclic phosphonium ionic liquids

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Suarez⁶

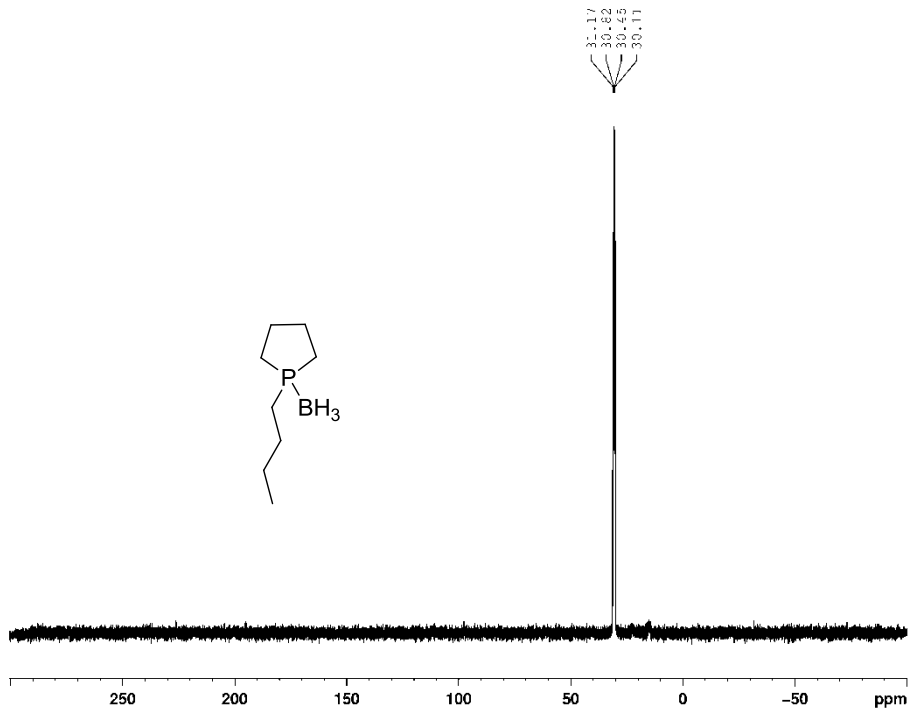
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wishart@bnl.gov; Robert R. Engel - Robert.engel@qc.cuny.edu

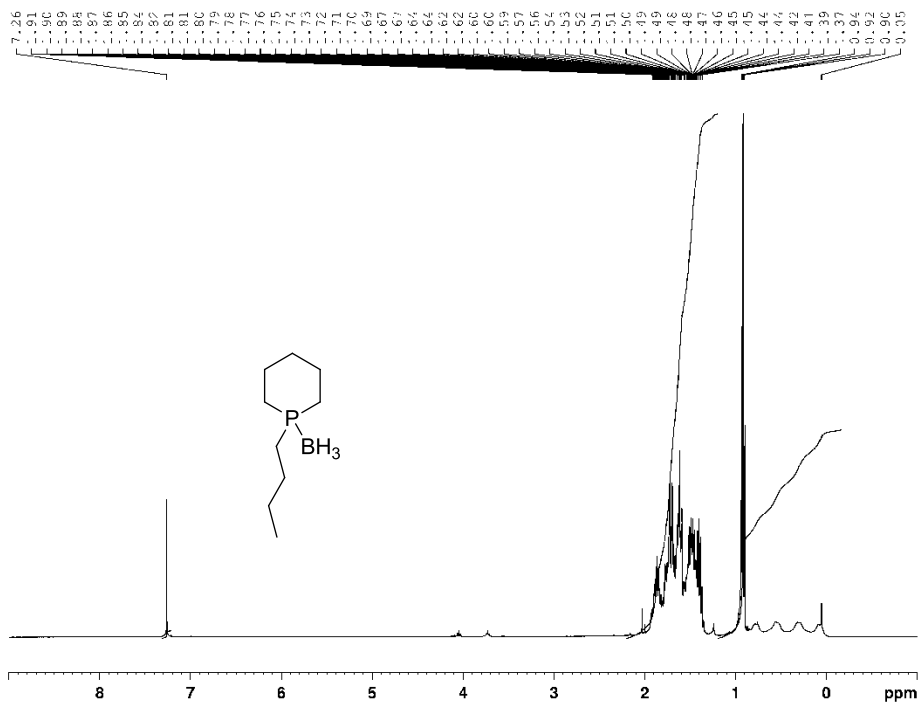
*Corresponding author

NMR spectra

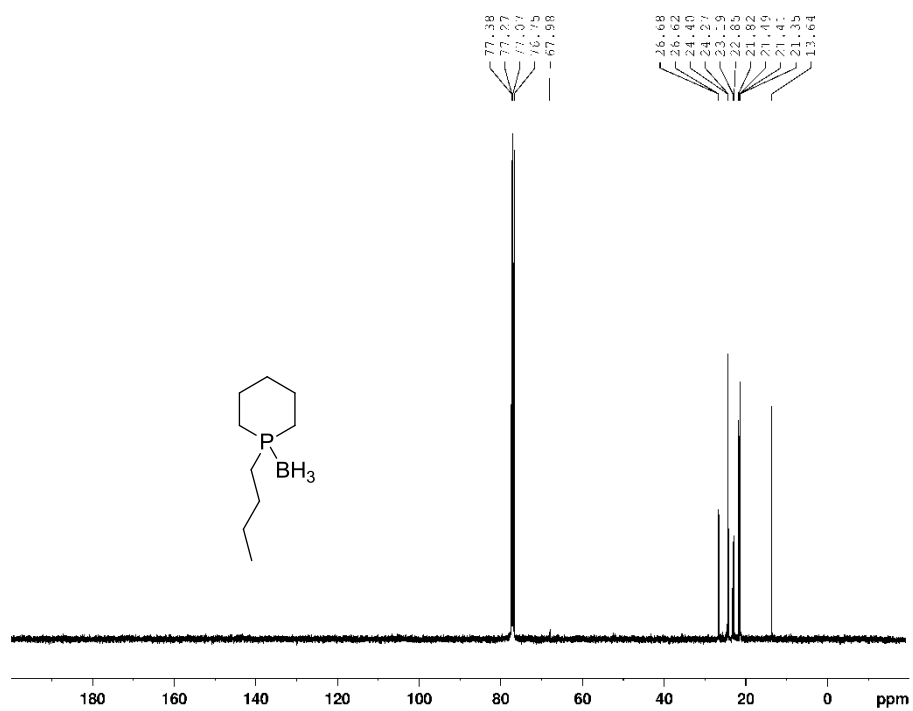
^{31}P NMR (CDCl_3): **3a**



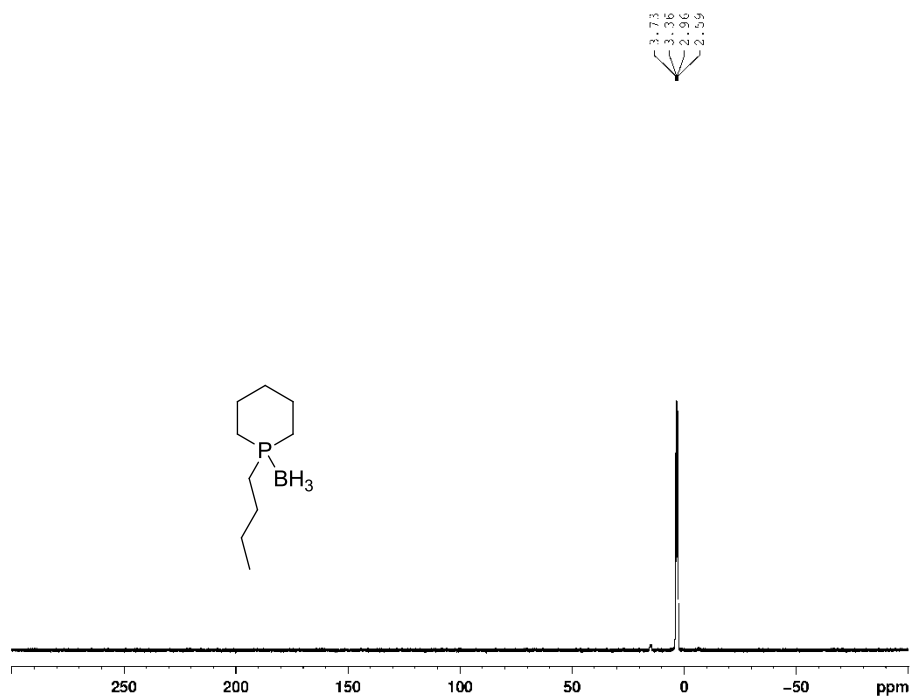
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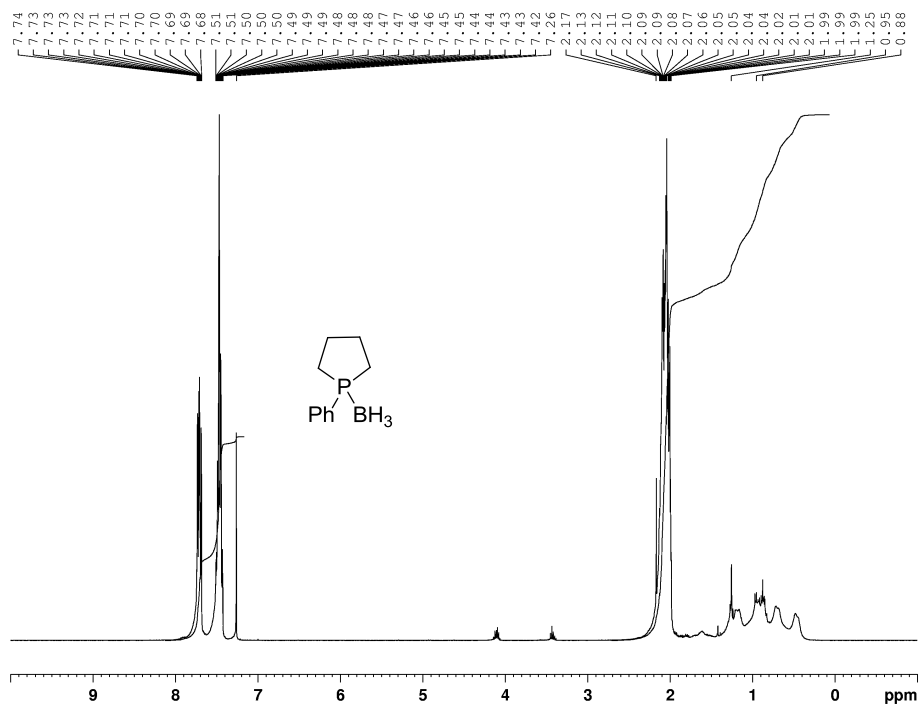
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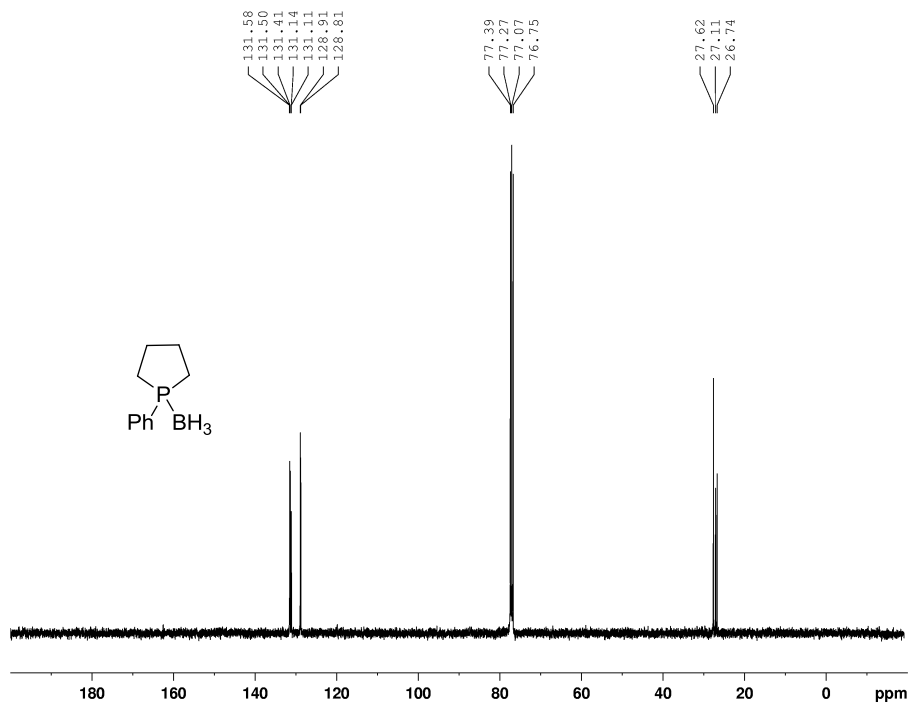
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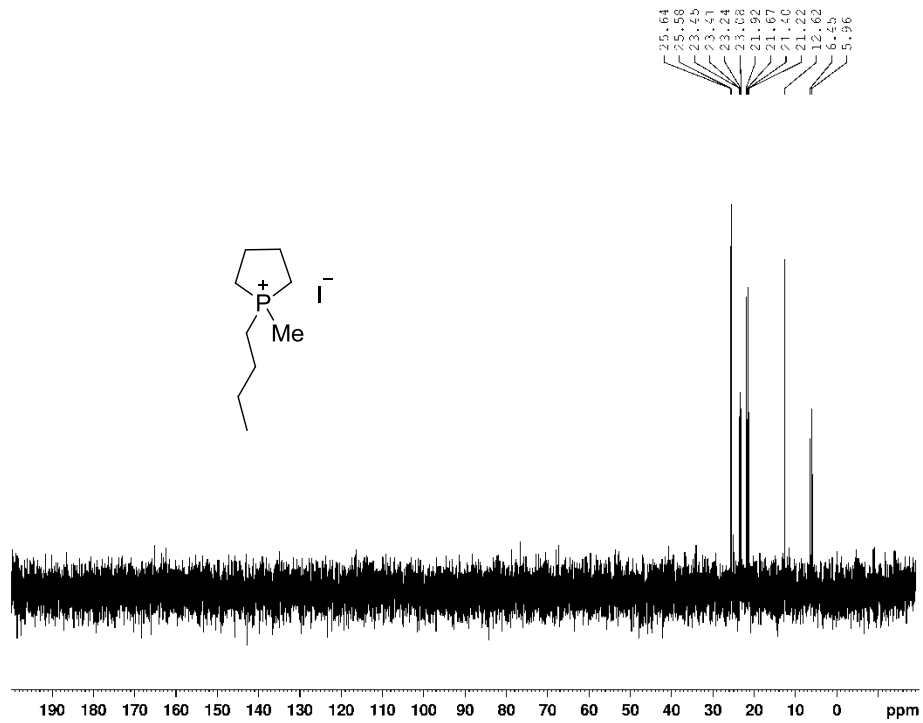
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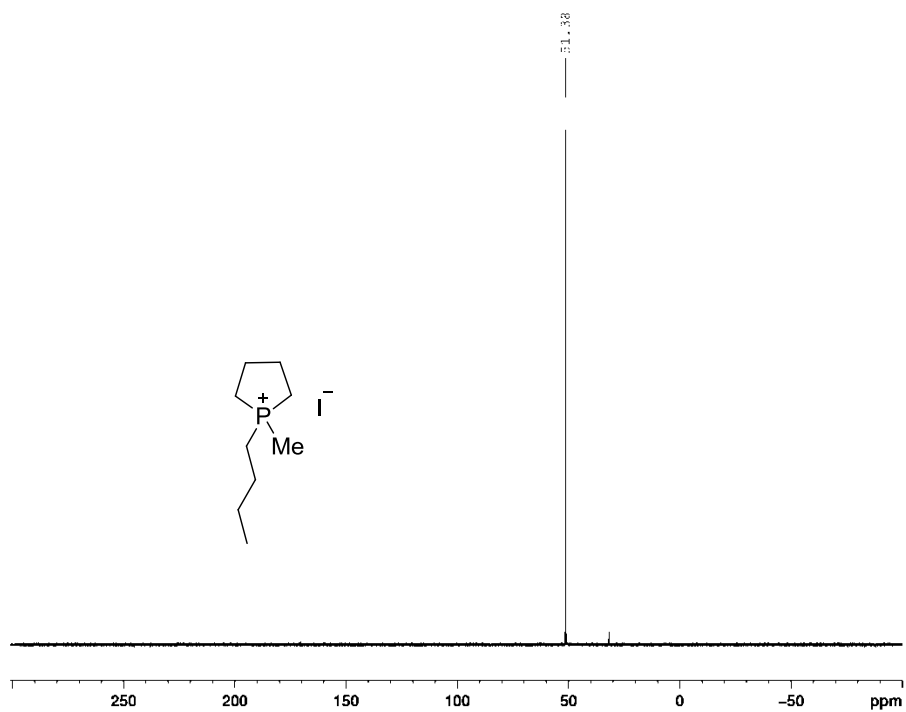
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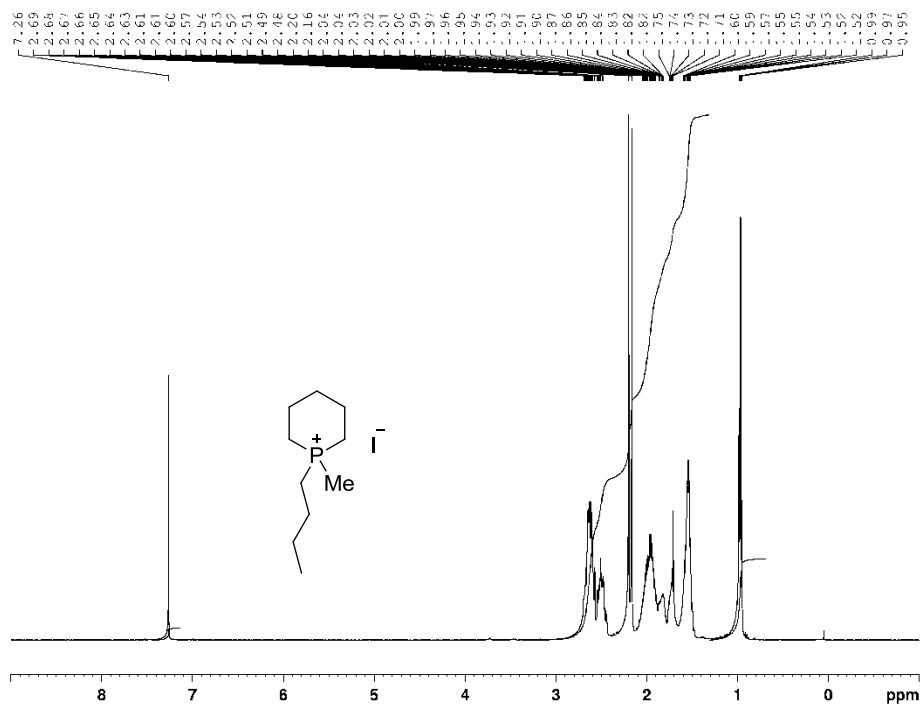
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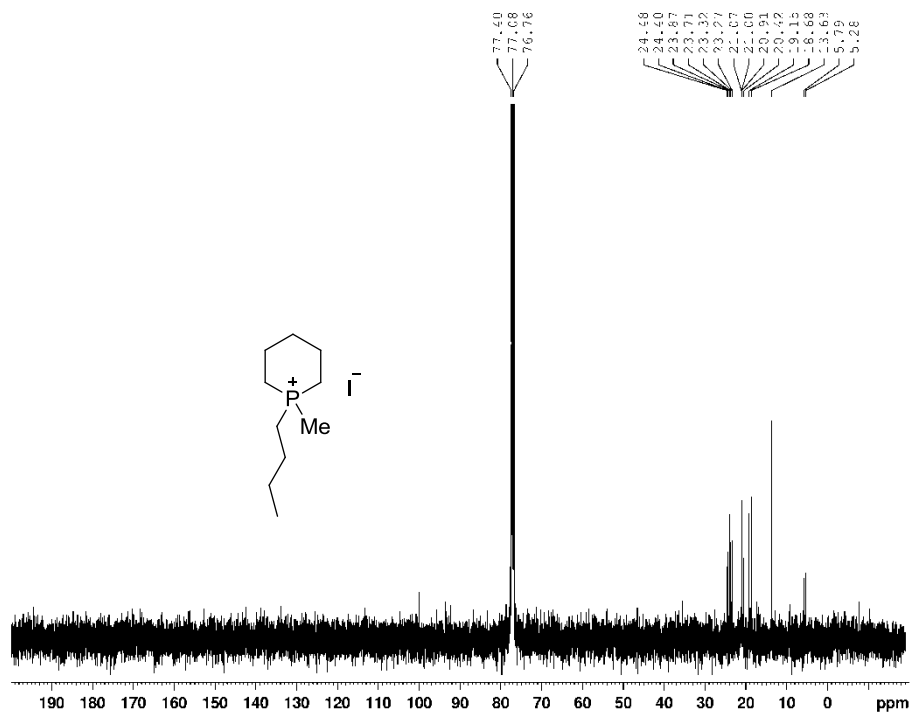
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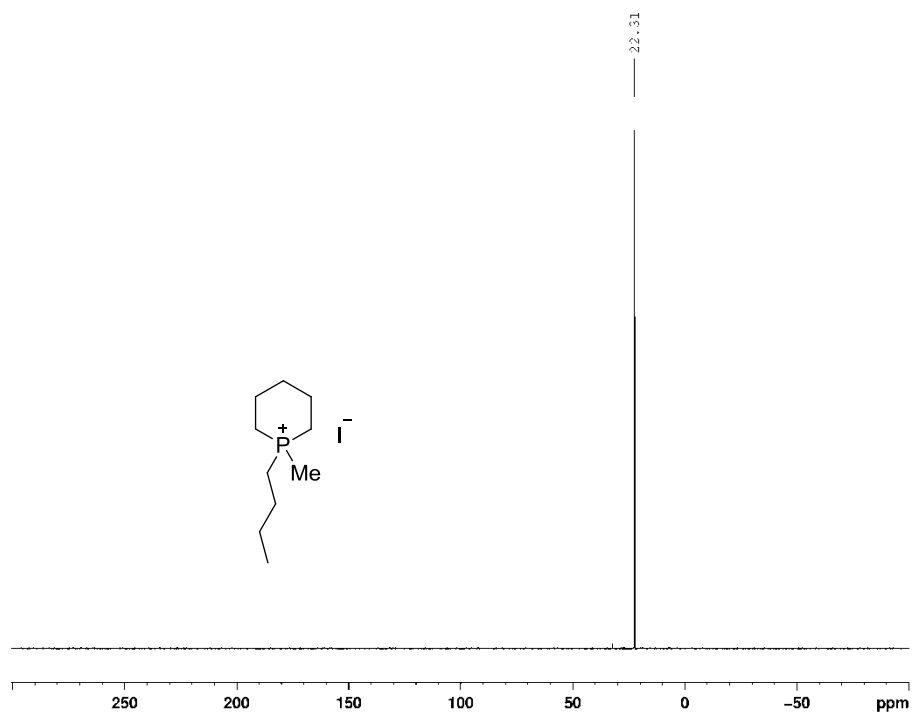
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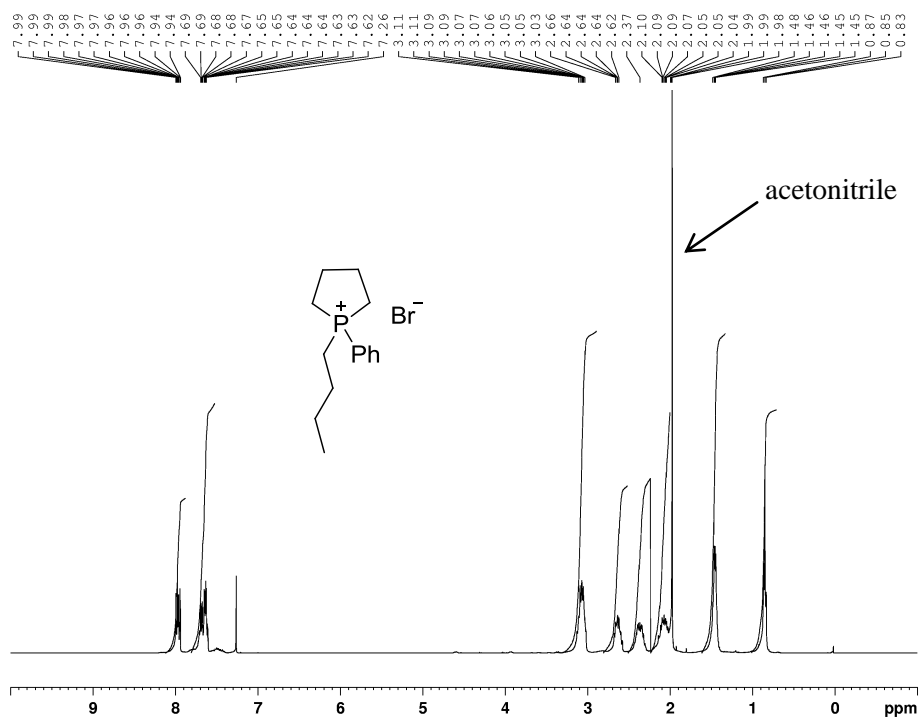
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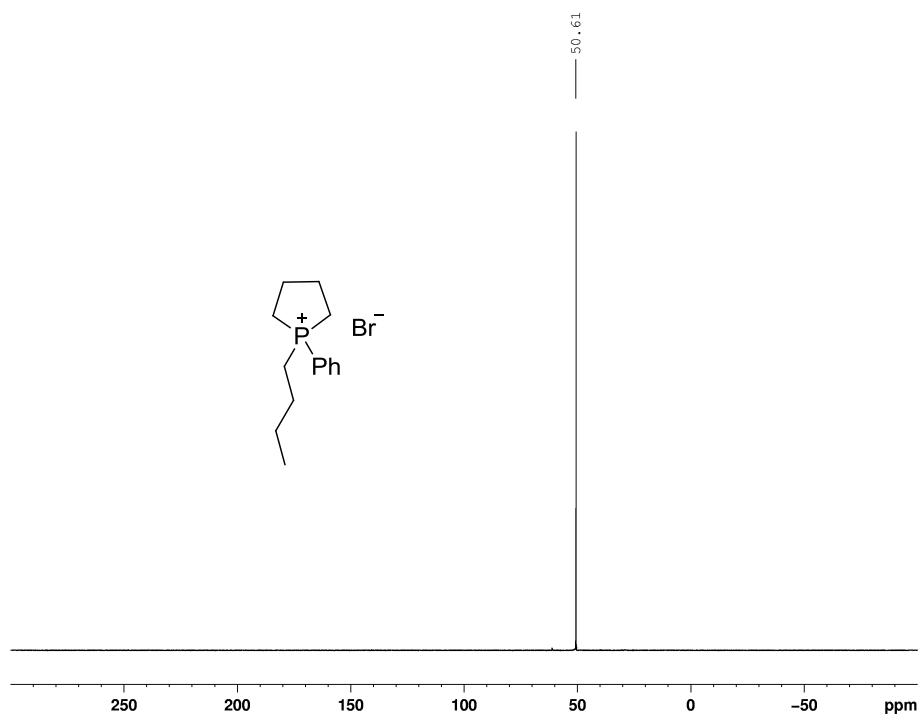
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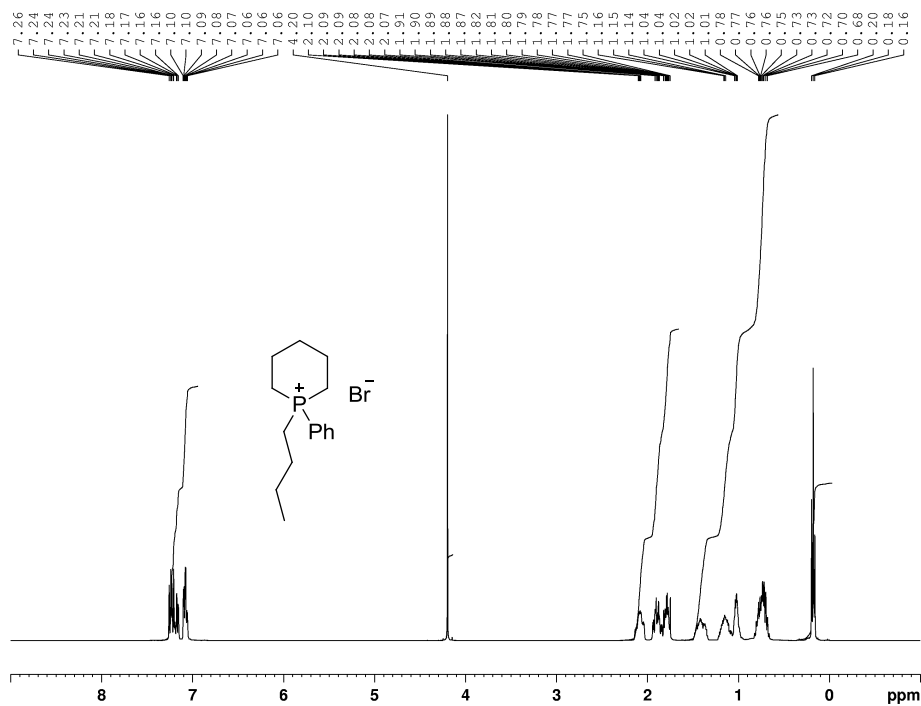
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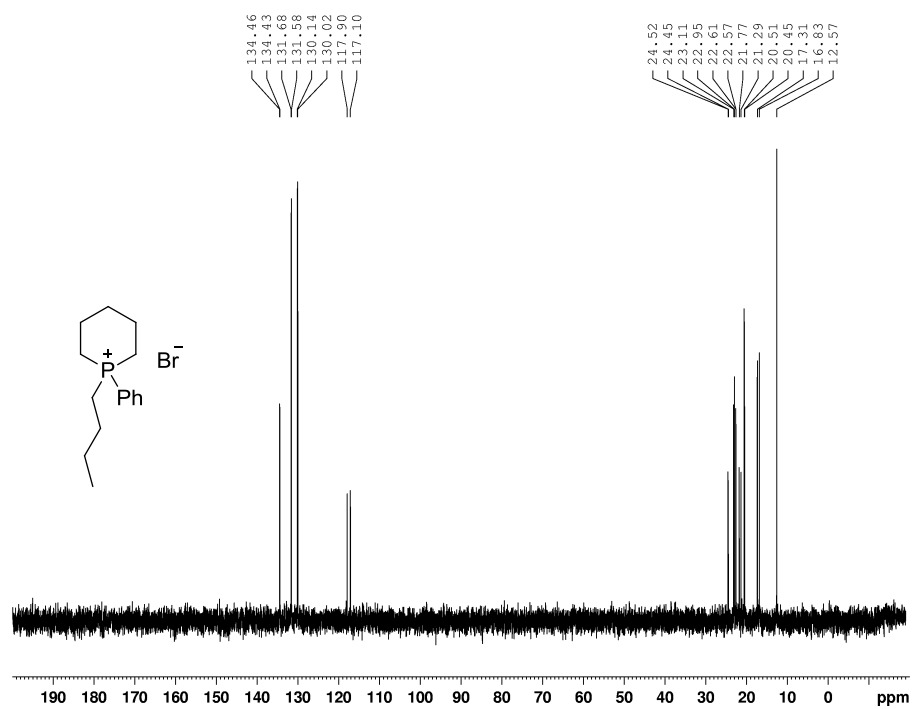
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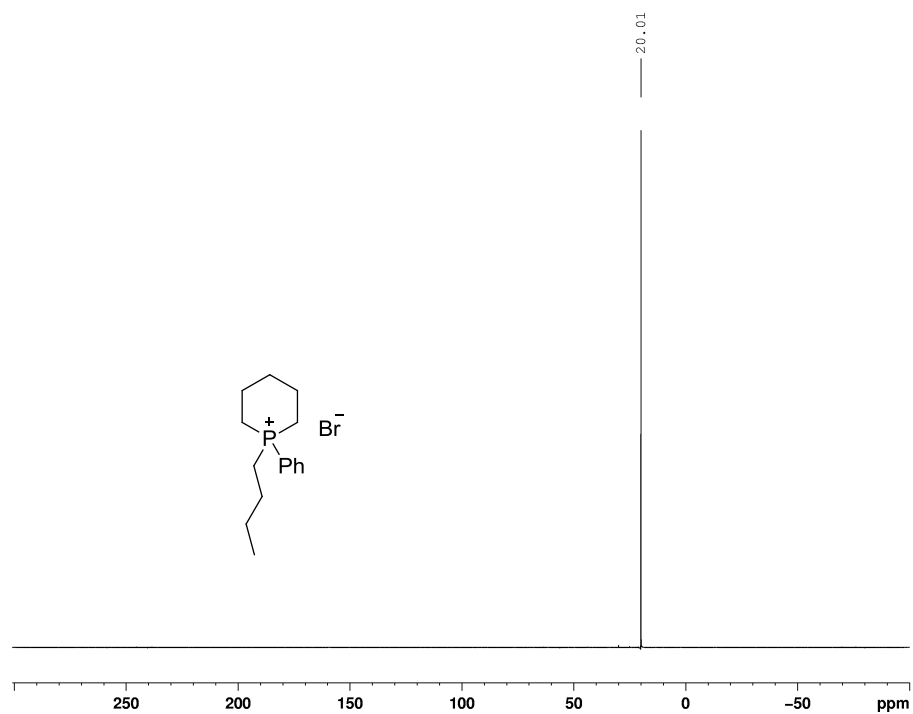
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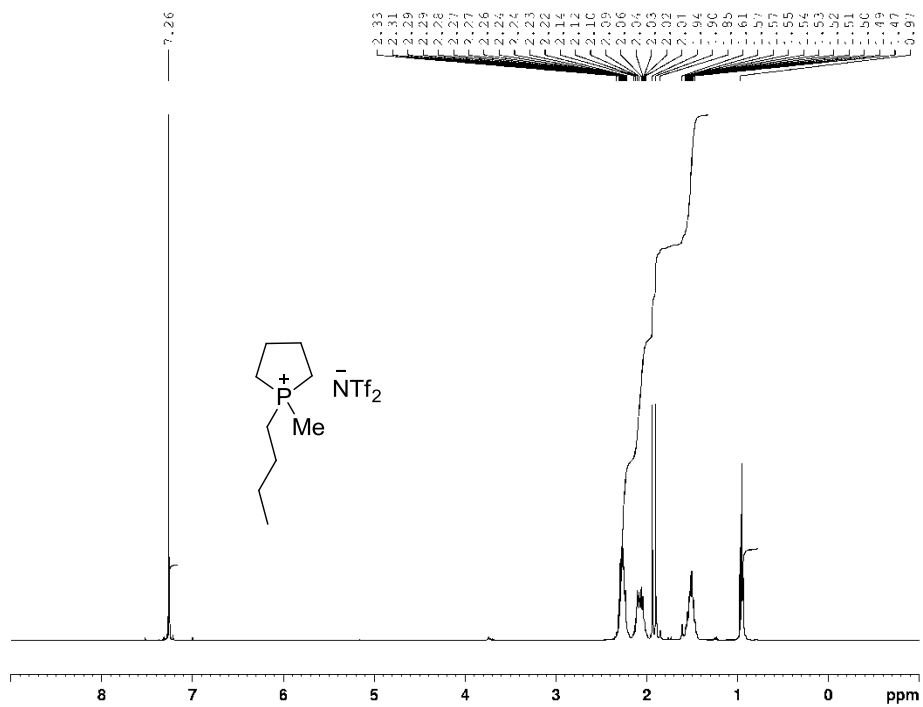
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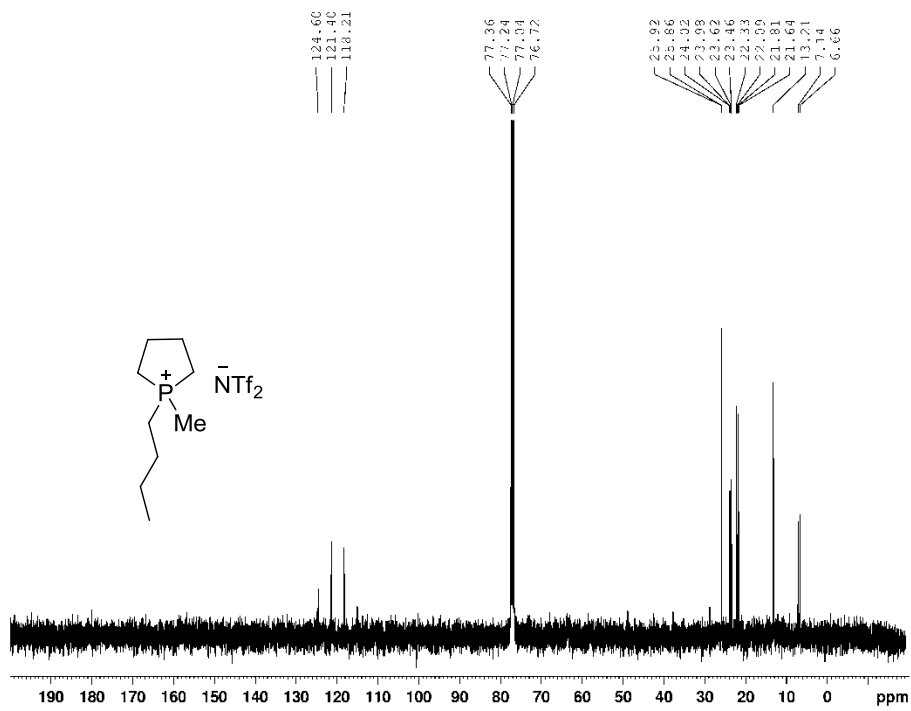
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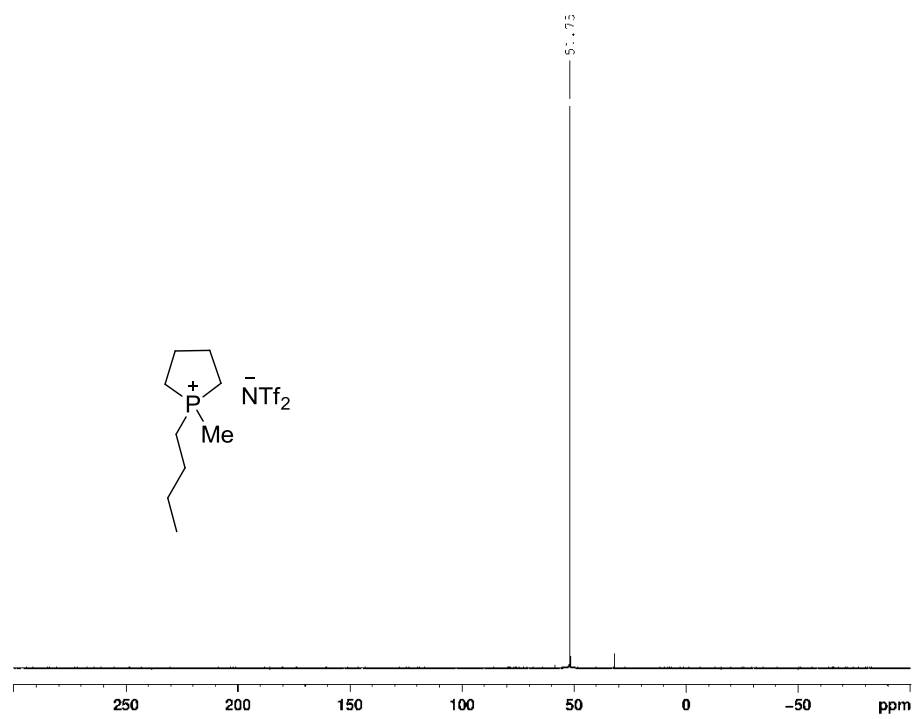
^1H NMR (CDCl_3): **5a**



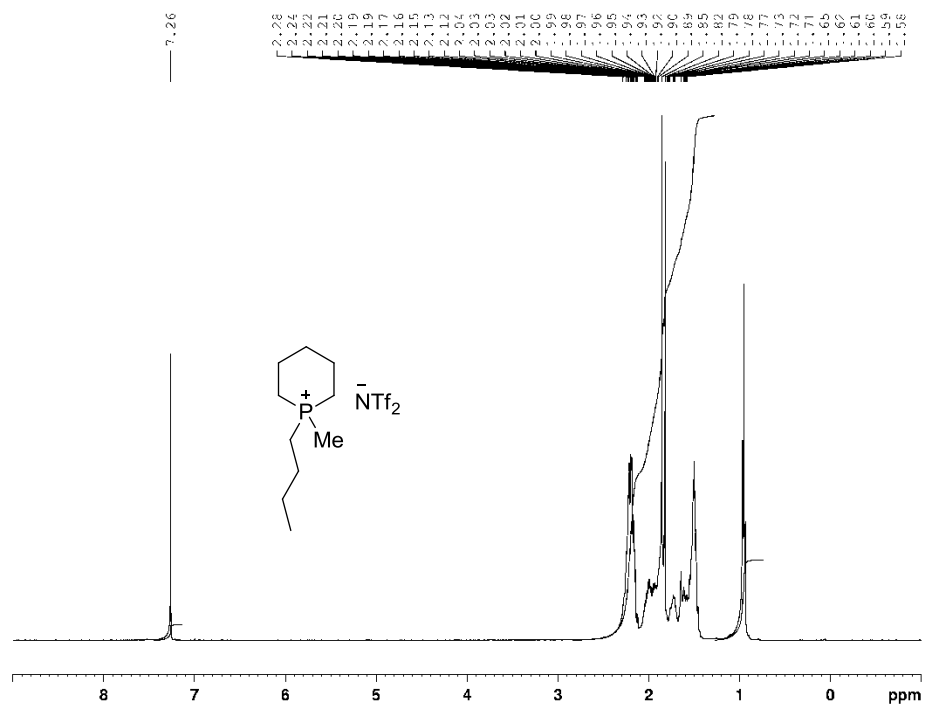
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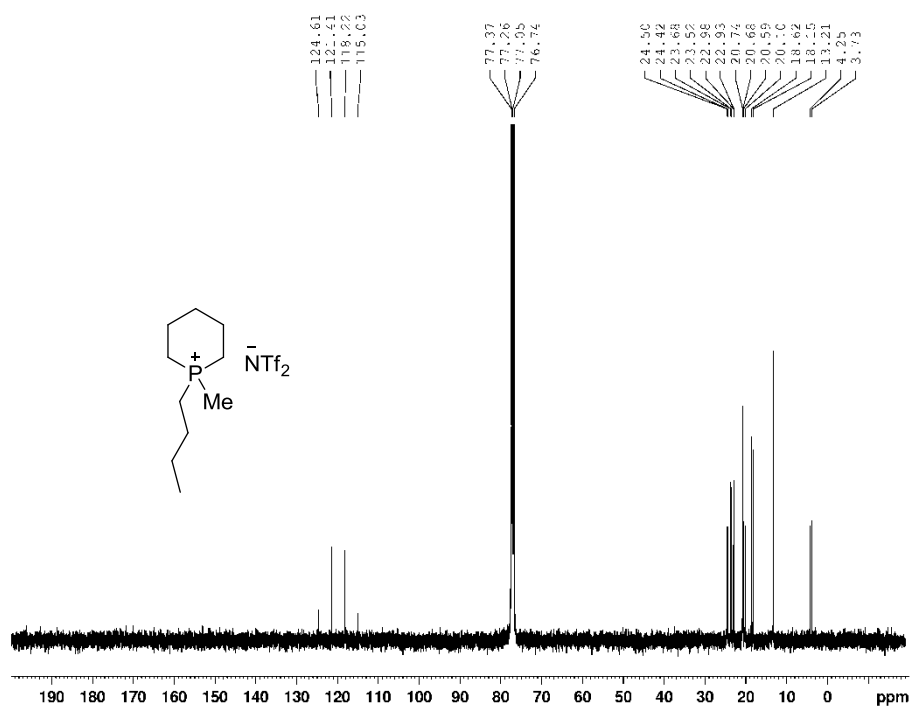
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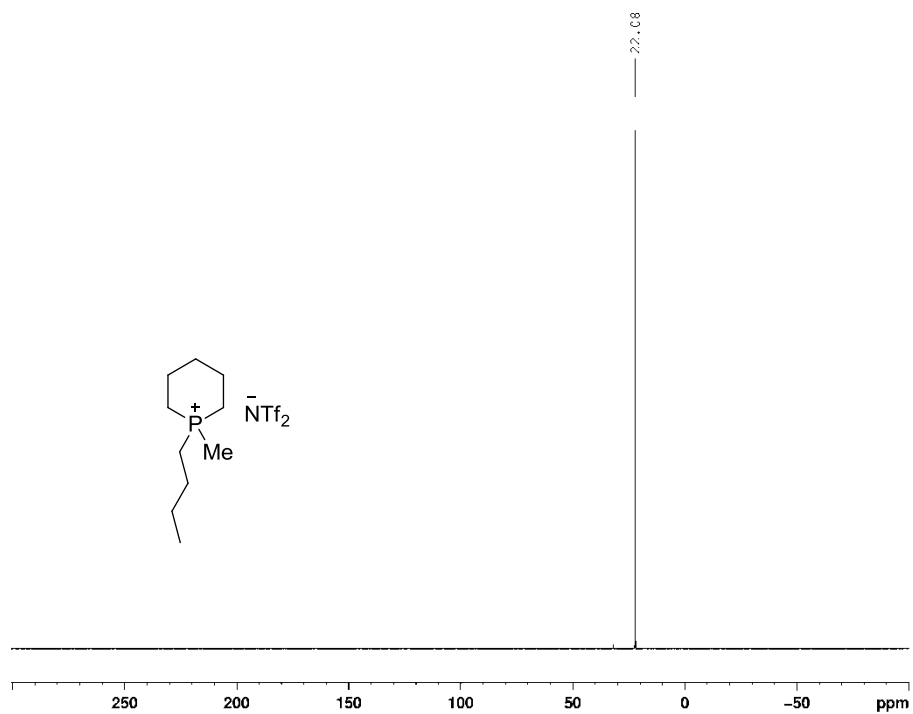
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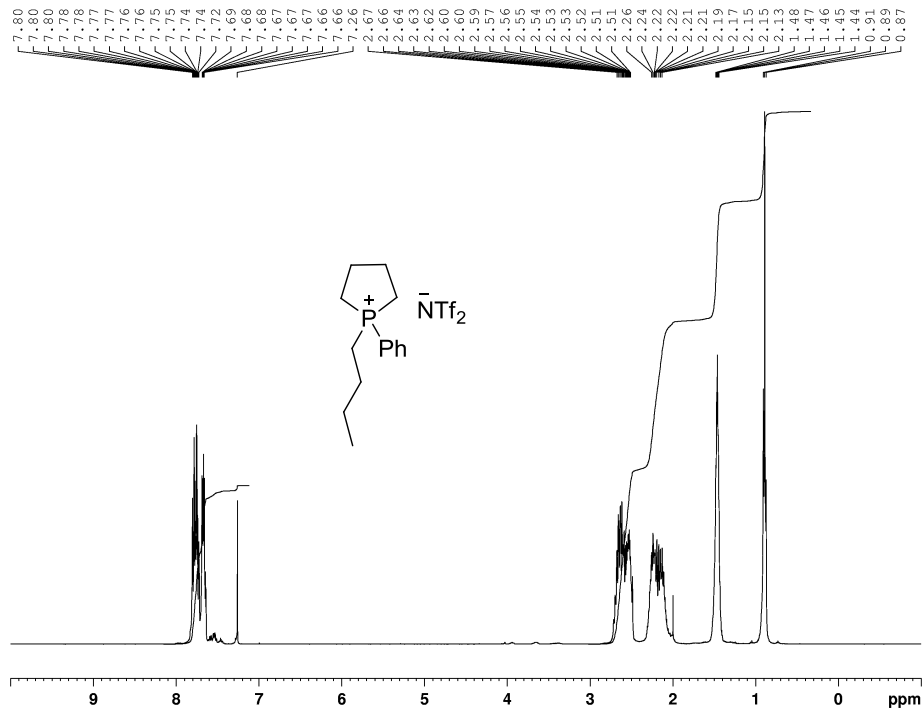
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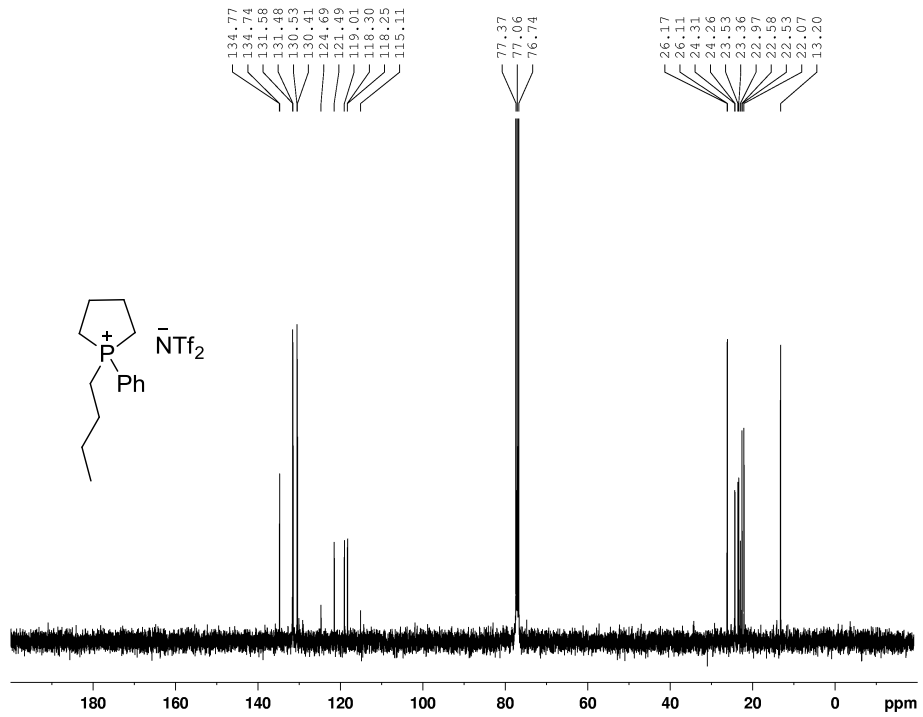
^{31}P NMR (CDCl_3): **5b**



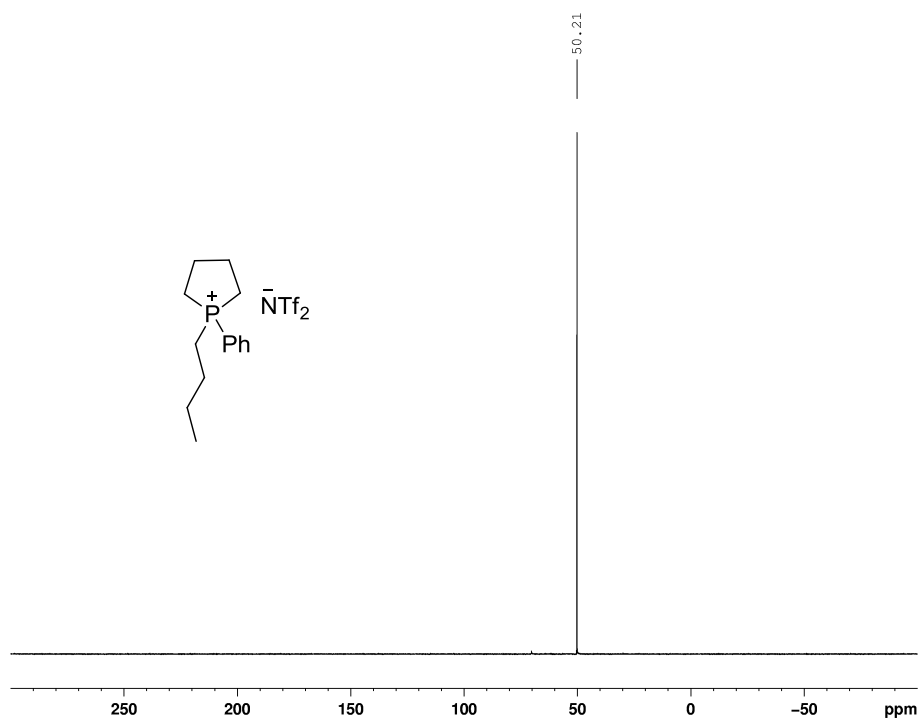
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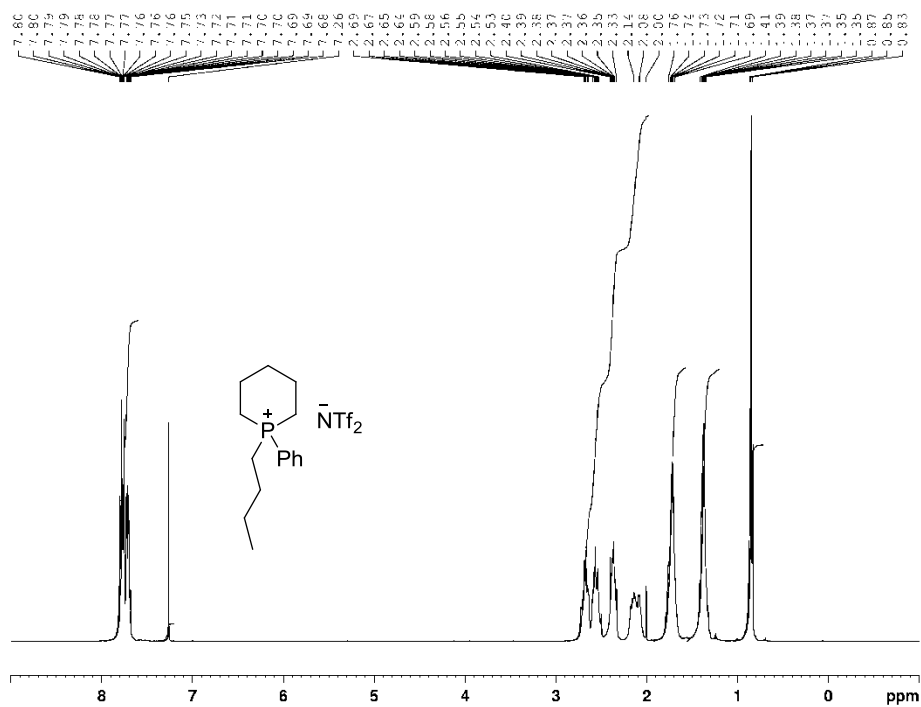
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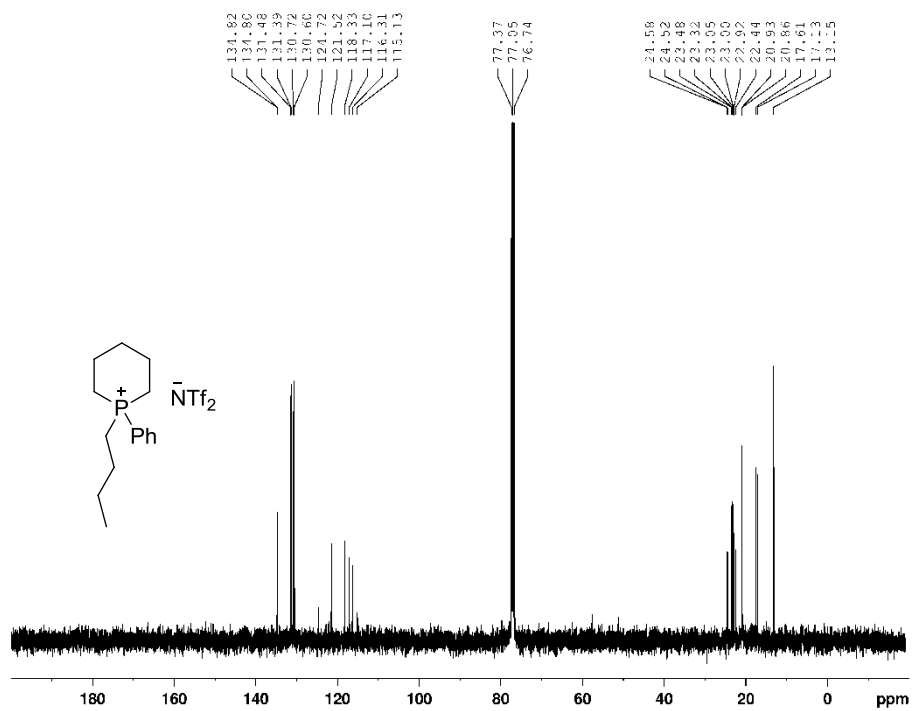
^{31}P NMR (CDCl_3): **5c**



^1H NMR (CDCl_3): **5d**



^{13}C NMR (CDCl_3): *5d*



^{31}P NMR (CDCl_3): *5d*

