

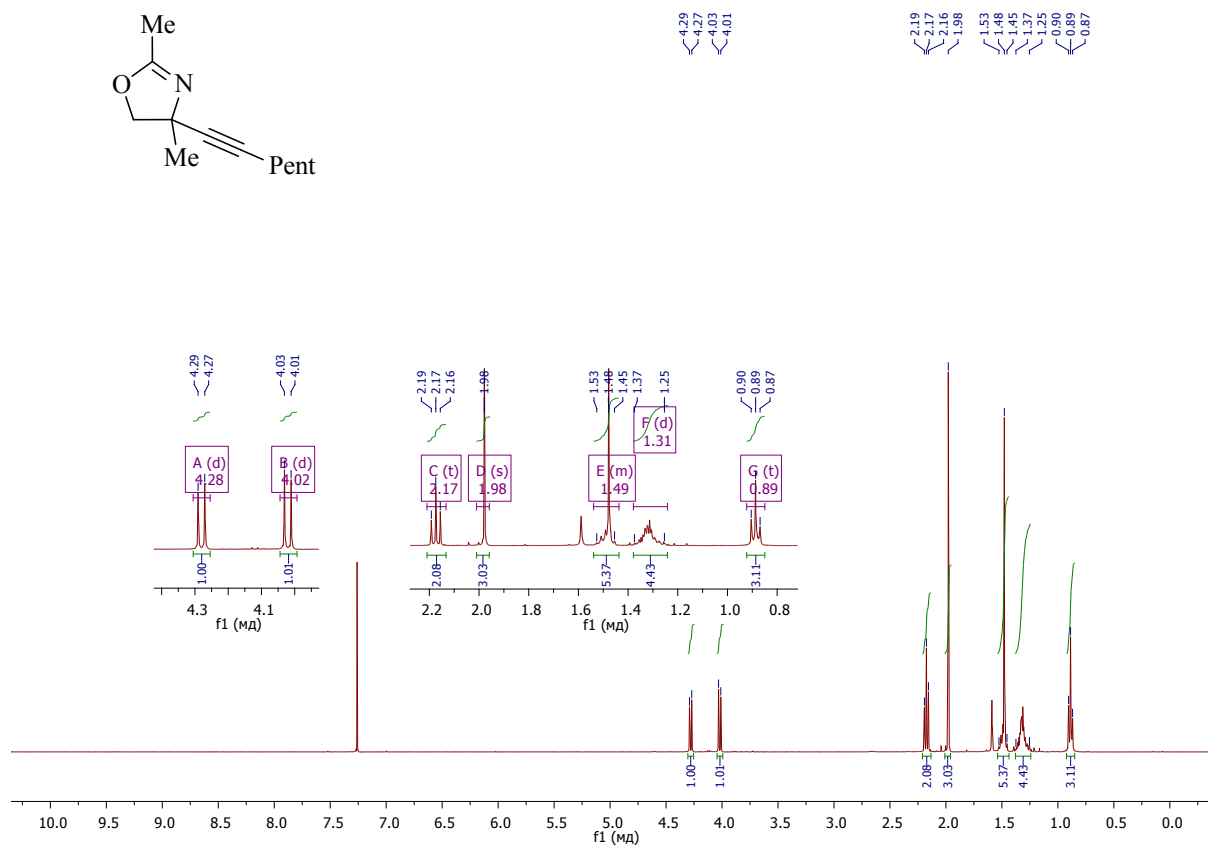
SUPPORTING INFORMATION

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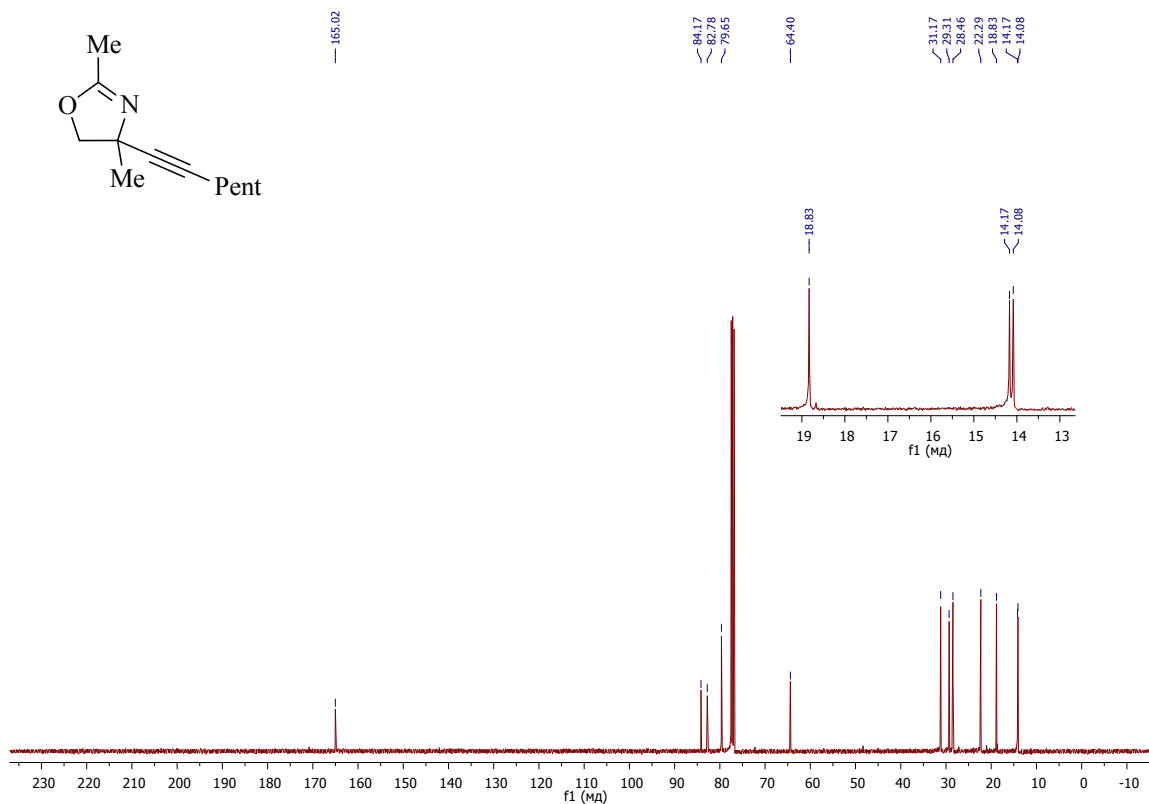
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1. NMR spectra of oxazolines 1

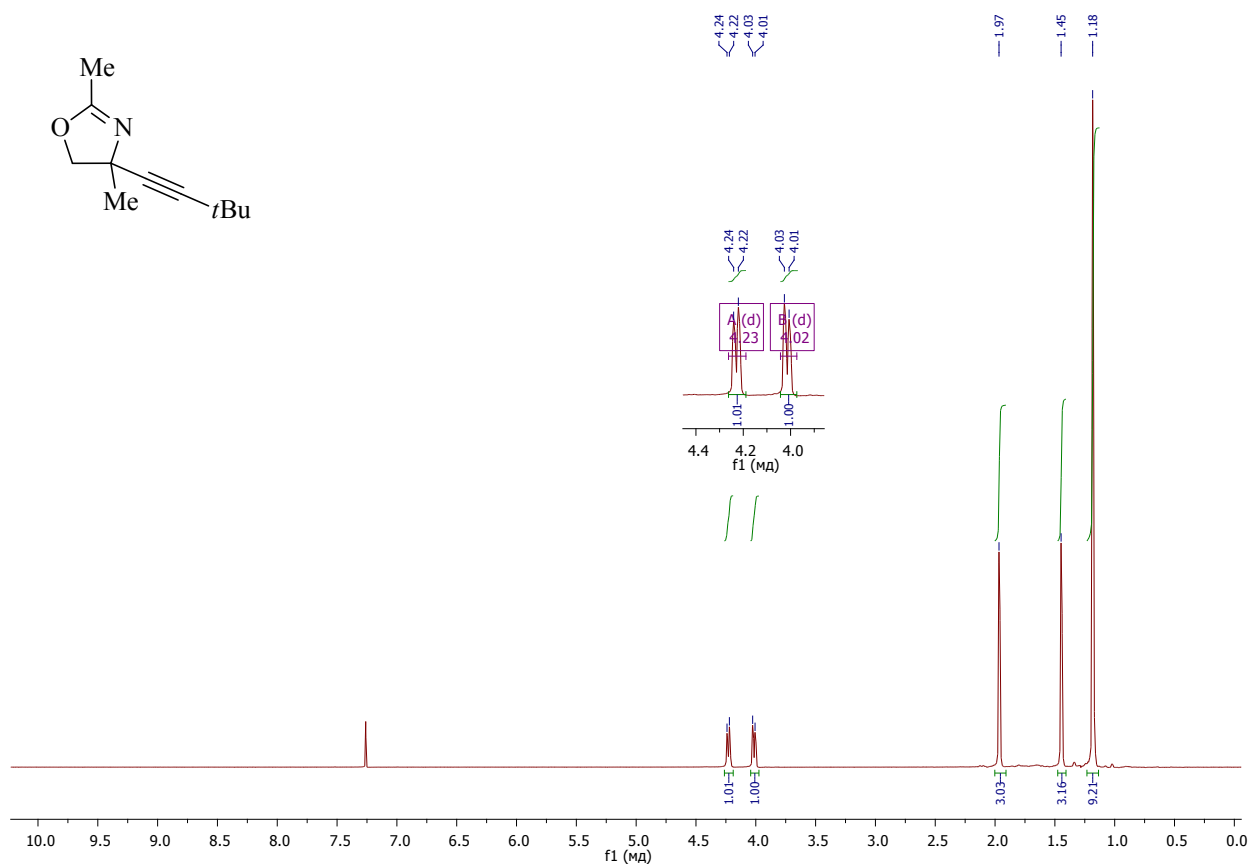
¹H NMR of 4-(hept-1-yn-1-yl)-2,4-dimethyloxazoline (6a) in CDCl₃:



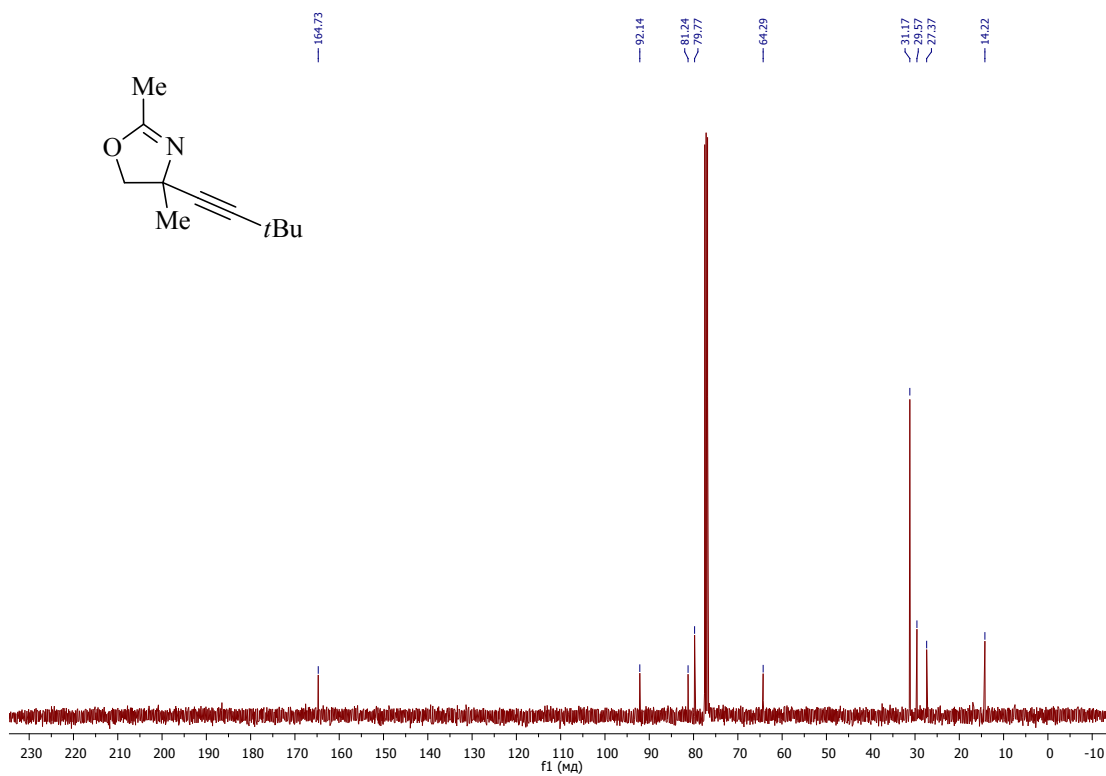
¹³C NMR of 4-(hept-1-yn-1-yl)-2,4-dimethyloxazoline (6a) in CDCl₃:



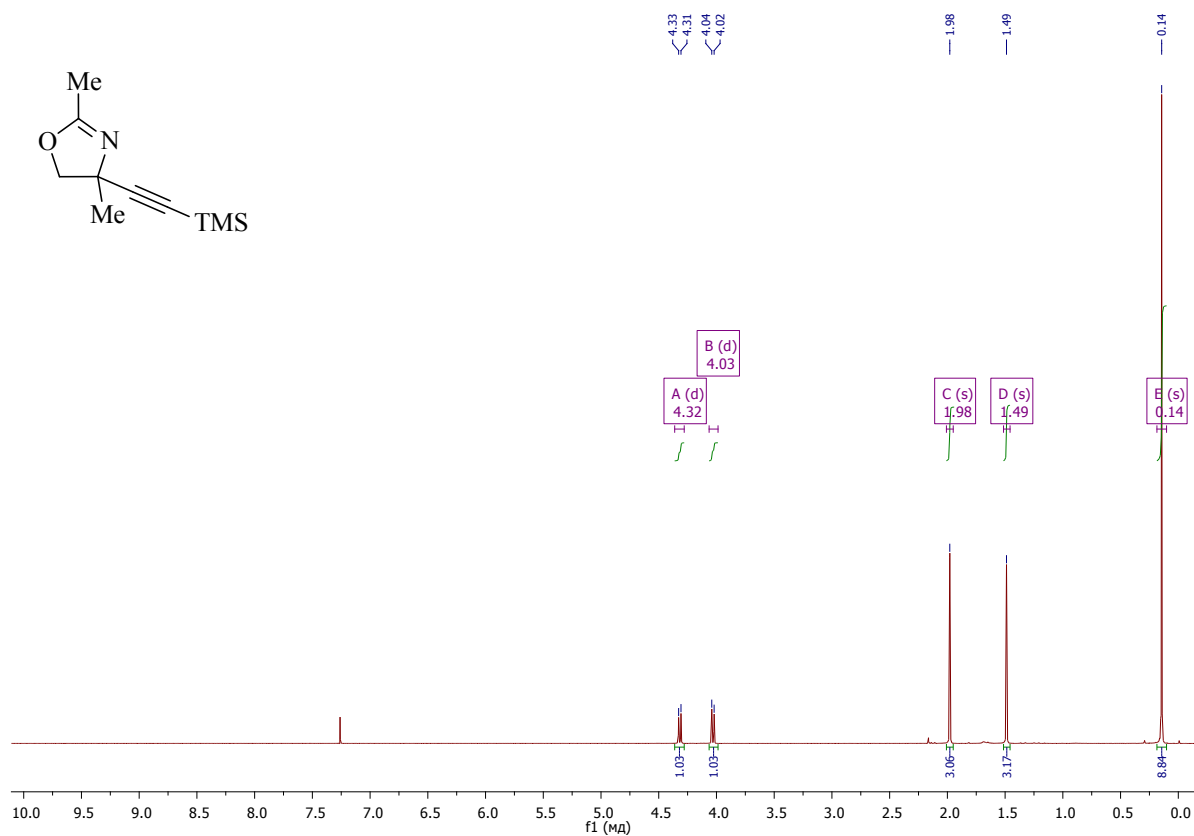
¹H NMR of 4-(3,3-dimethylbut-1-yn-1-yl)-2,4-dimethyloxazoline (6b) in CDCl₃:



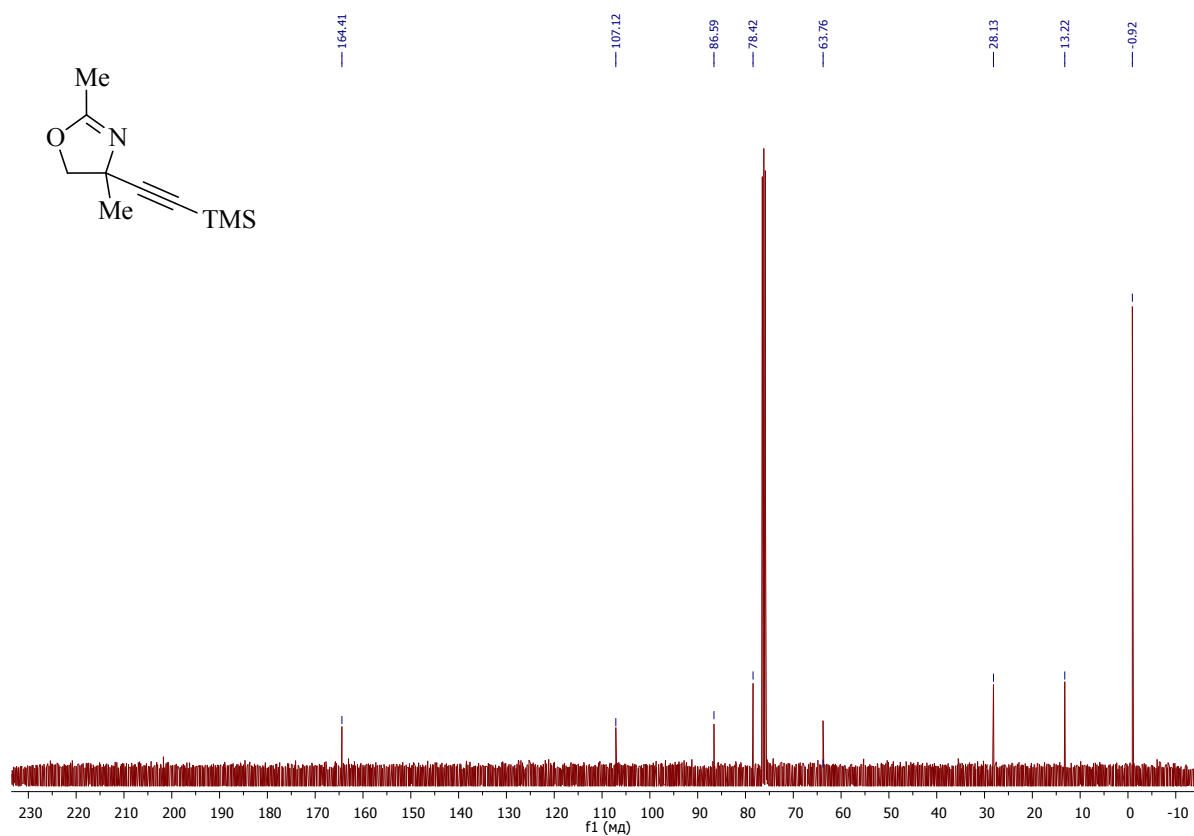
¹³C NMR of 4-(3,3-dimethylbut-1-yn-1-yl)-2,4-dimethyloxazoline (6b) in CDCl₃:



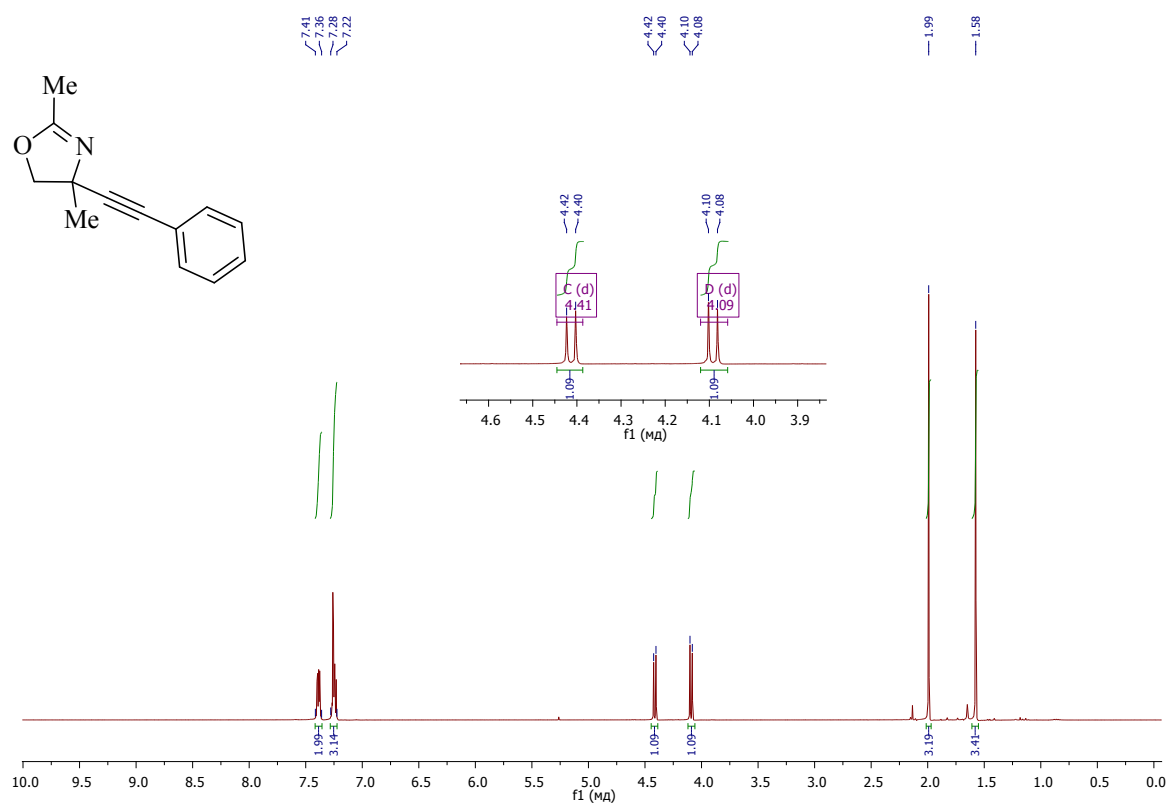
¹H NMR of 2,4-dimethyl-4-((trimethylsilyl)ethynyl)oxazoline (6c) in CDCl₃:



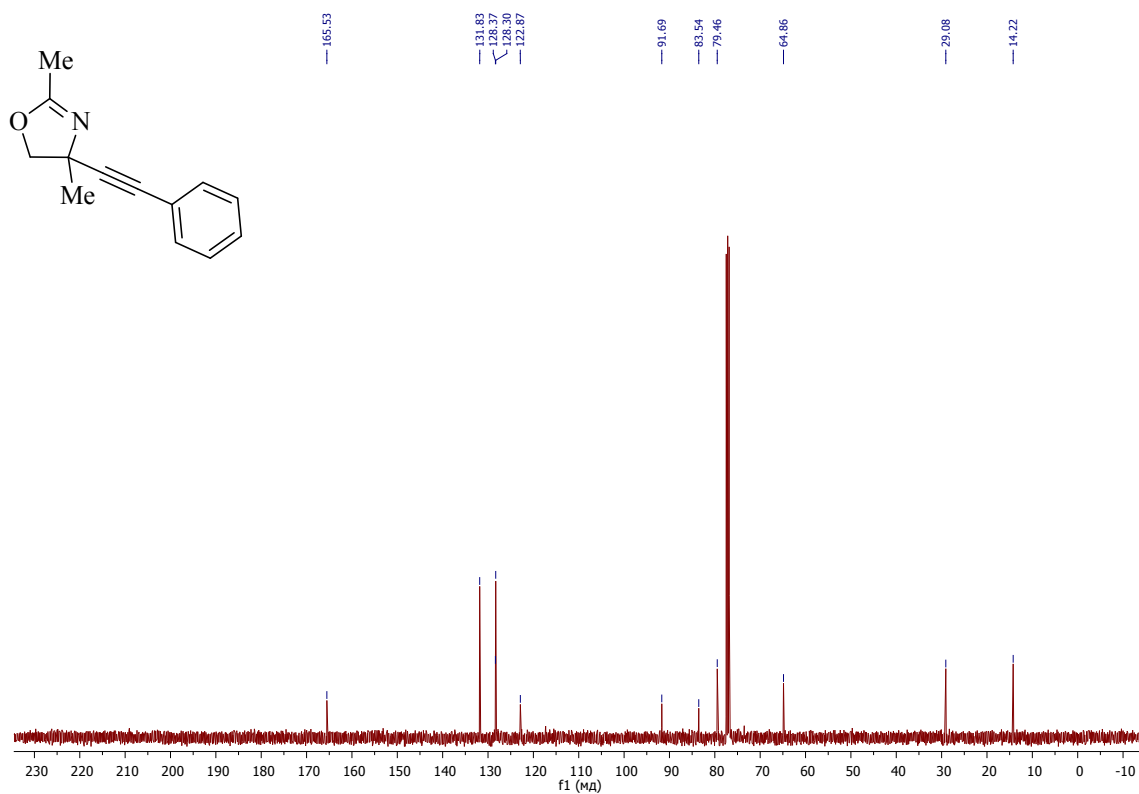
¹³C NMR of 2,4-dimethyl-4-((trimethylsilyl)ethynyl)oxazoline (6c) in CDCl₃:



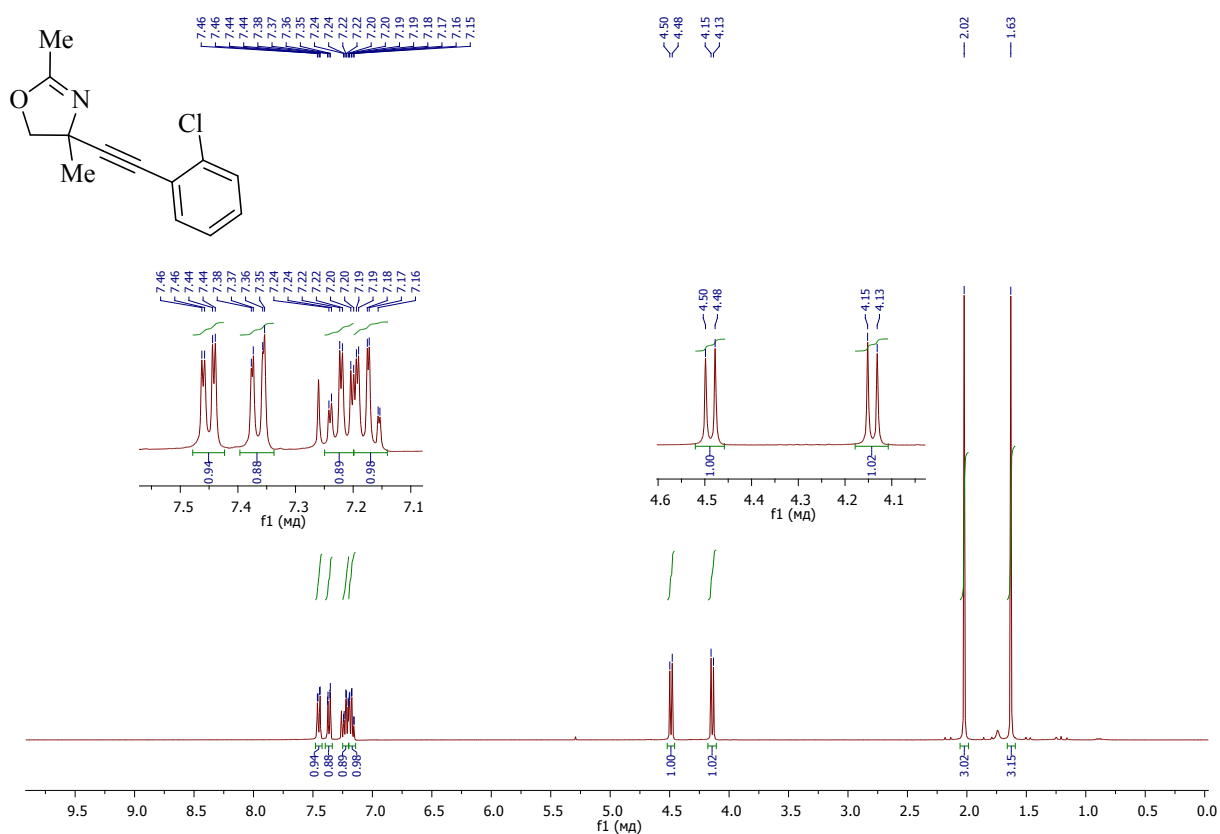
^1H NMR of 2,4-dimethyl-4-(phenylethynyl)oxazoline (6d) in CDCl_3 :



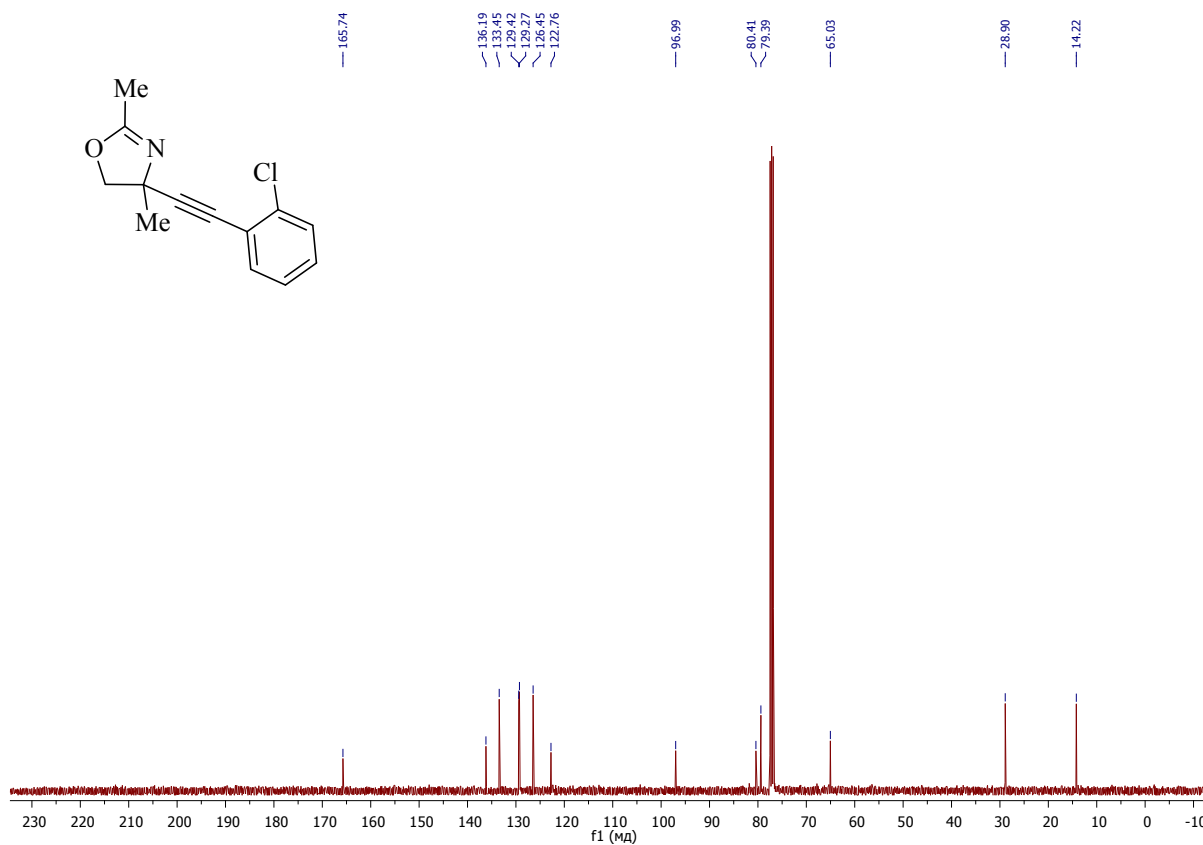
^{13}C NMR of 2,4-dimethyl-4-(phenylethynyl)oxazoline (6d) in CDCl_3 :



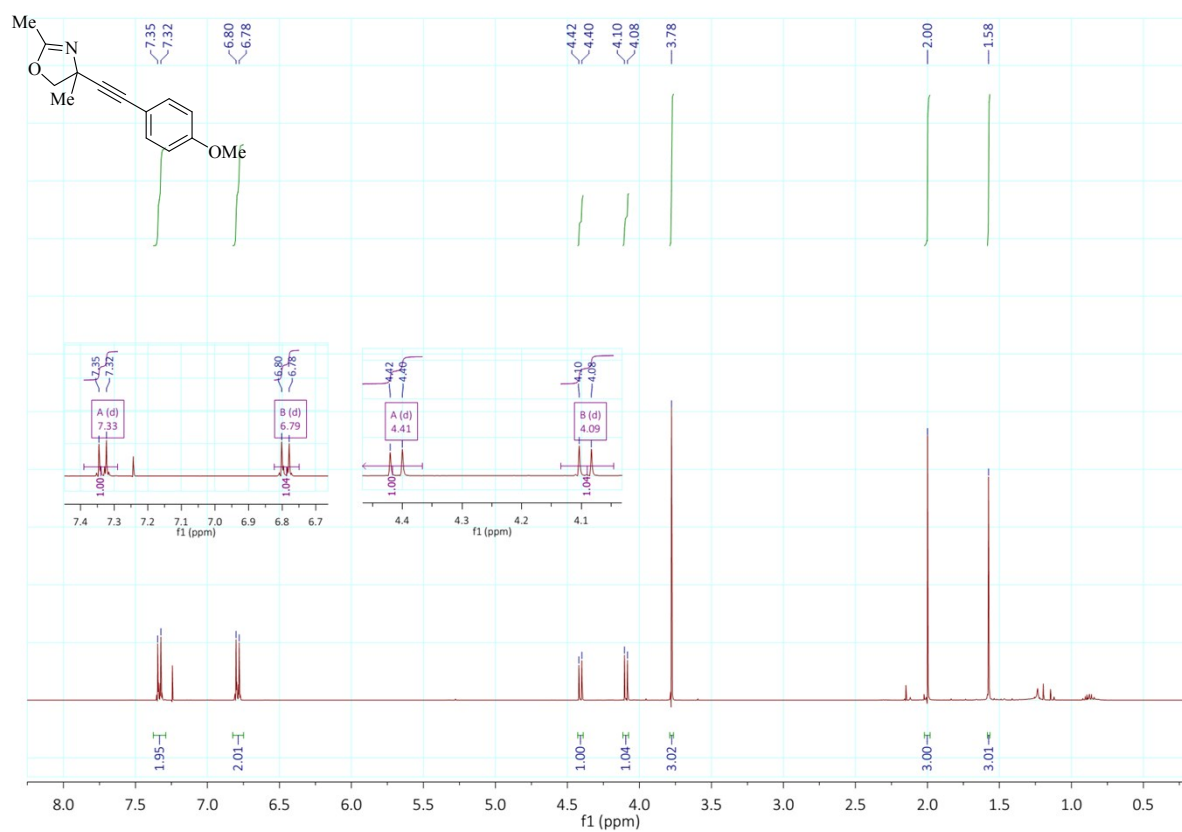
¹H NMR of 4-((2-chlorophenyl)ethynyl)-2,4-dimethyloxazoline (6e) in CDCl₃:



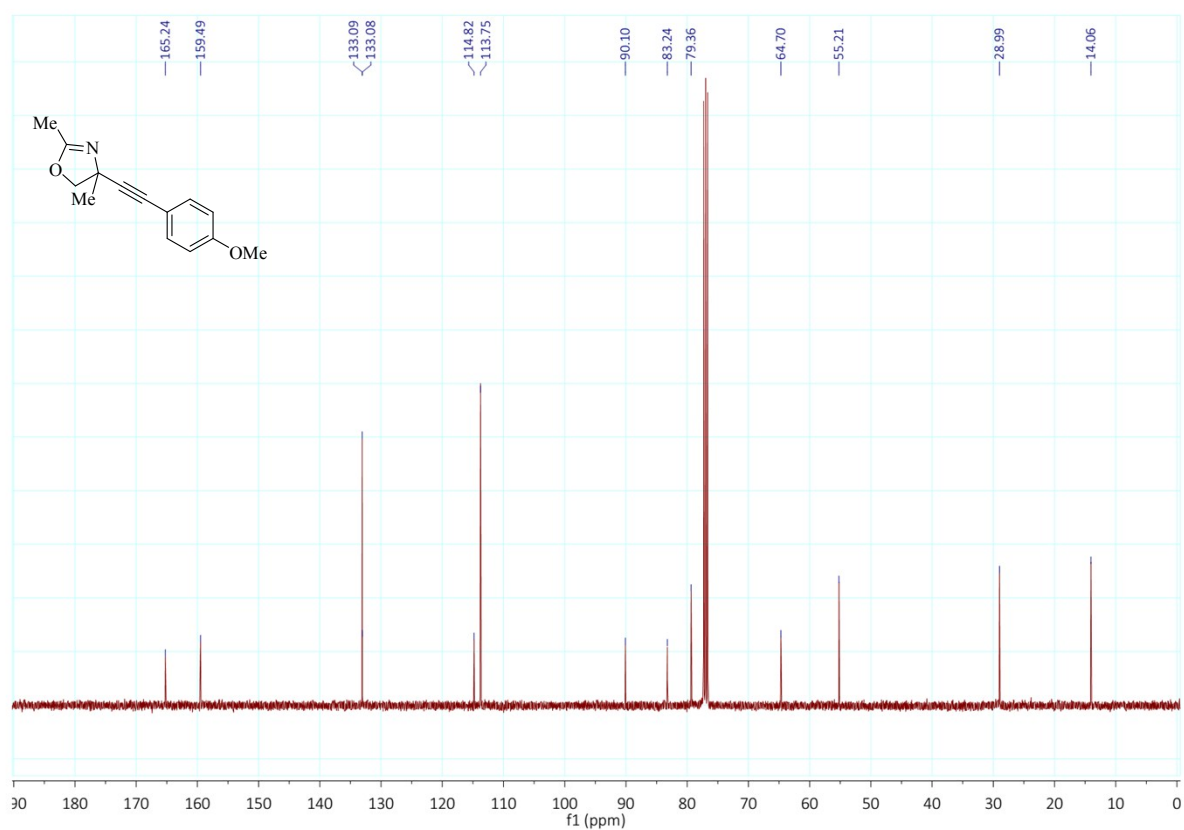
¹³C NMR of 4-((2-chlorophenyl)ethynyl)-2,4-dimethyloxazoline (6e) in CDCl₃:



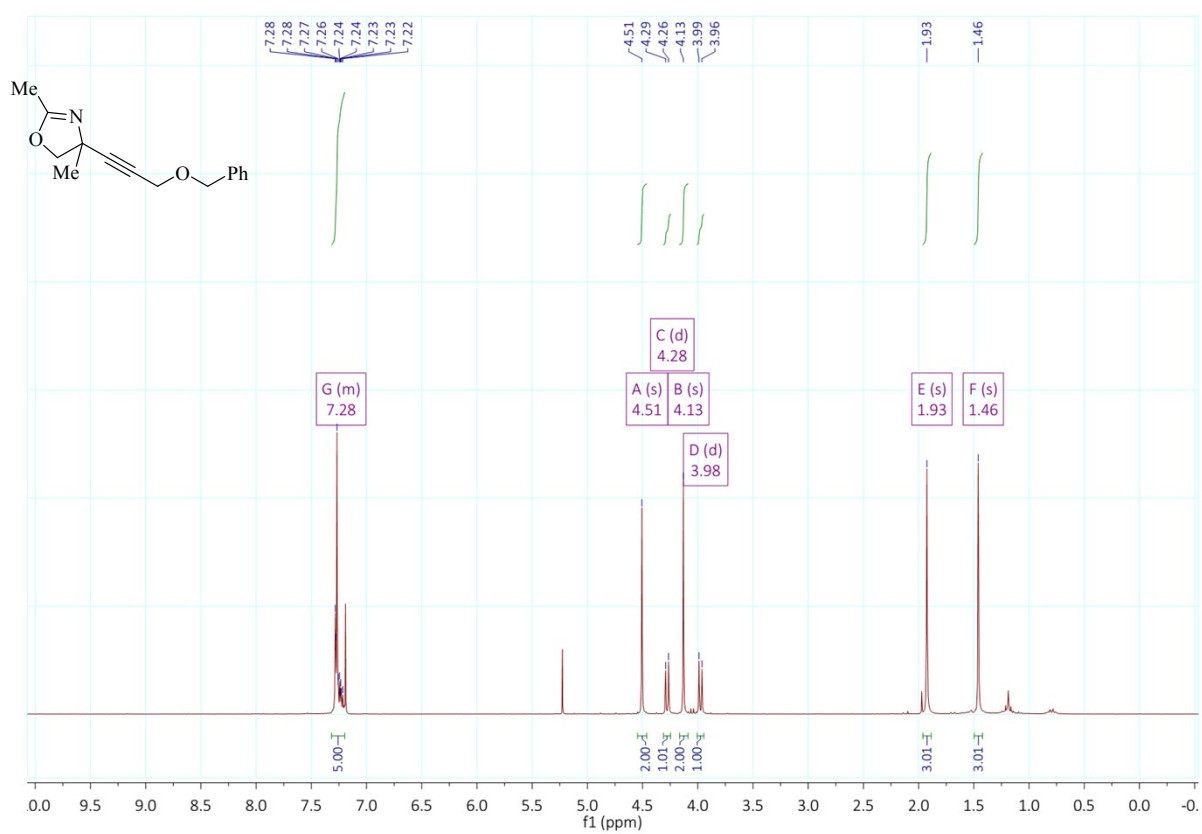
^1H NMR of 4-((4-methoxyphenyl)ethynyl)-2,4-dimethyloxazoline (6f) in CDCl_3



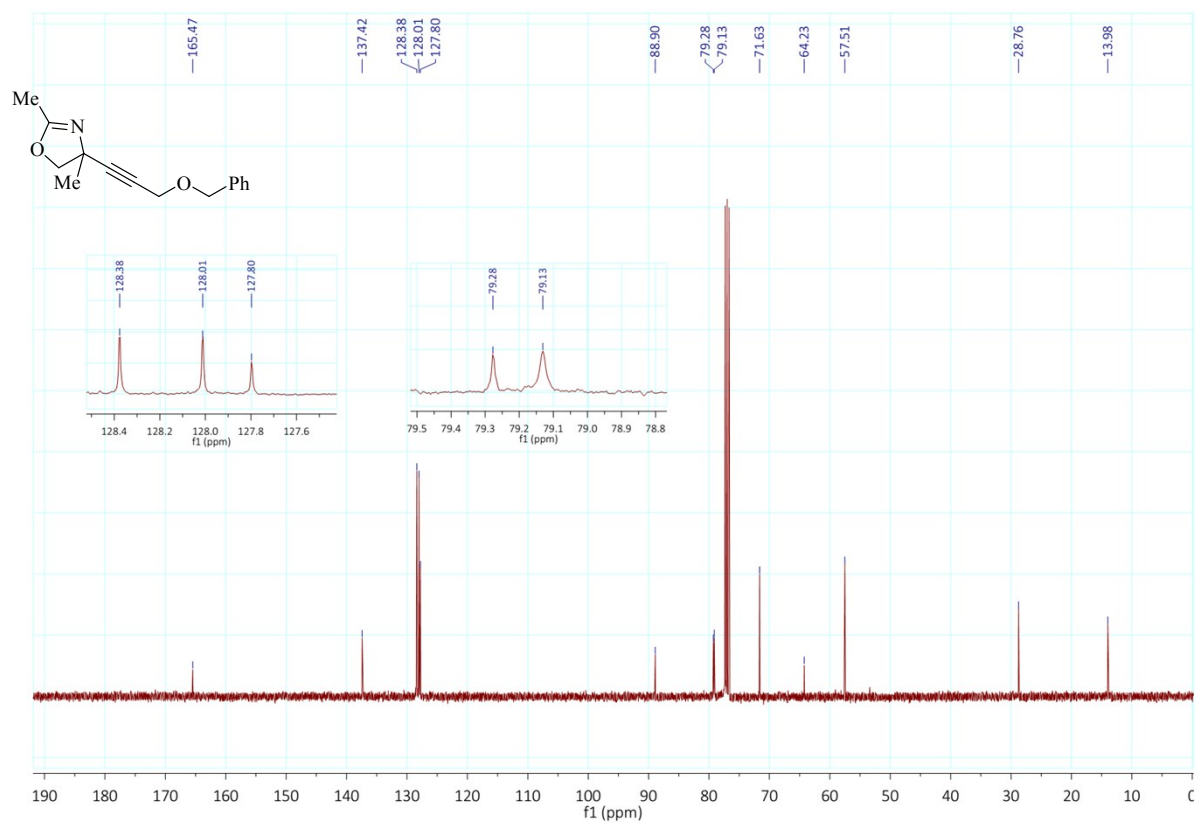
^{13}C NMR of 4-((4-Methoxyphenyl)ethynyl)-2,4-dimethyl-oxazoline (6f) in CDCl_3 :



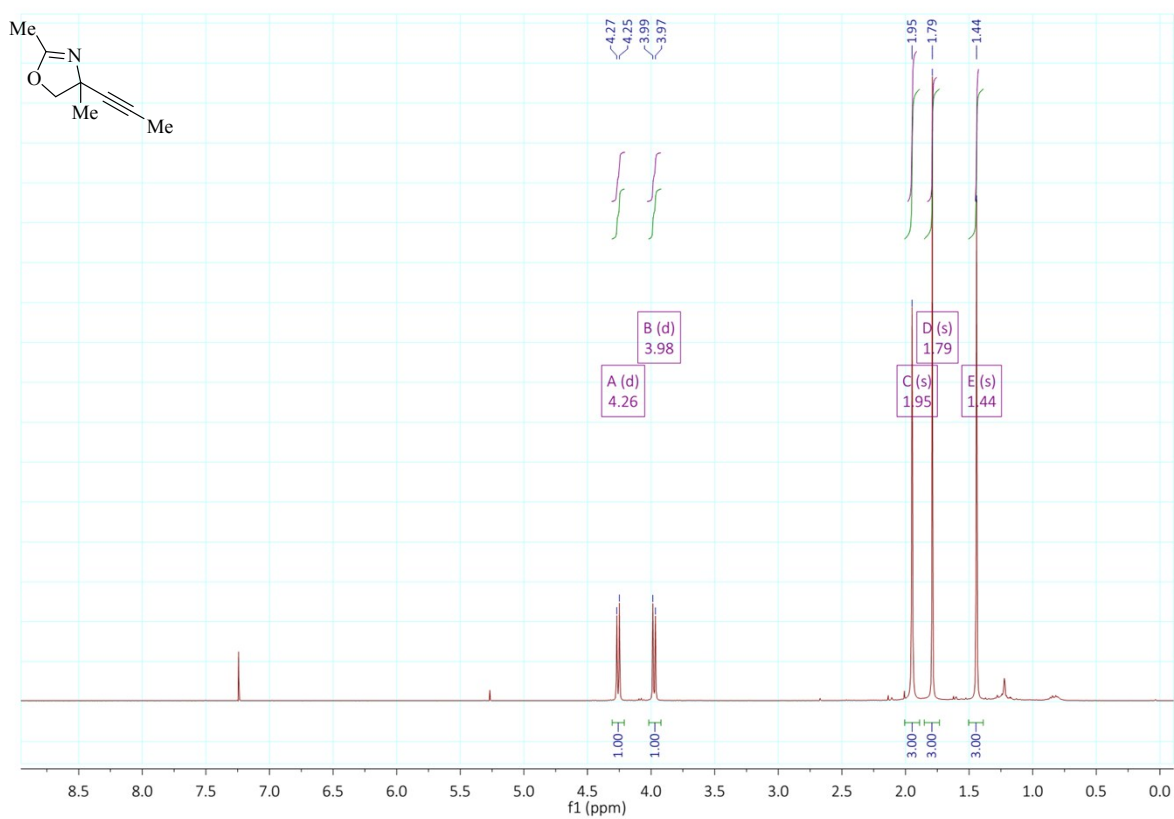
¹H NMR of 4-(3-(Benzyloxy)prop-1-yn-1-yl)-2,4-dimethyloxazoline (6g) in CDCl₃:



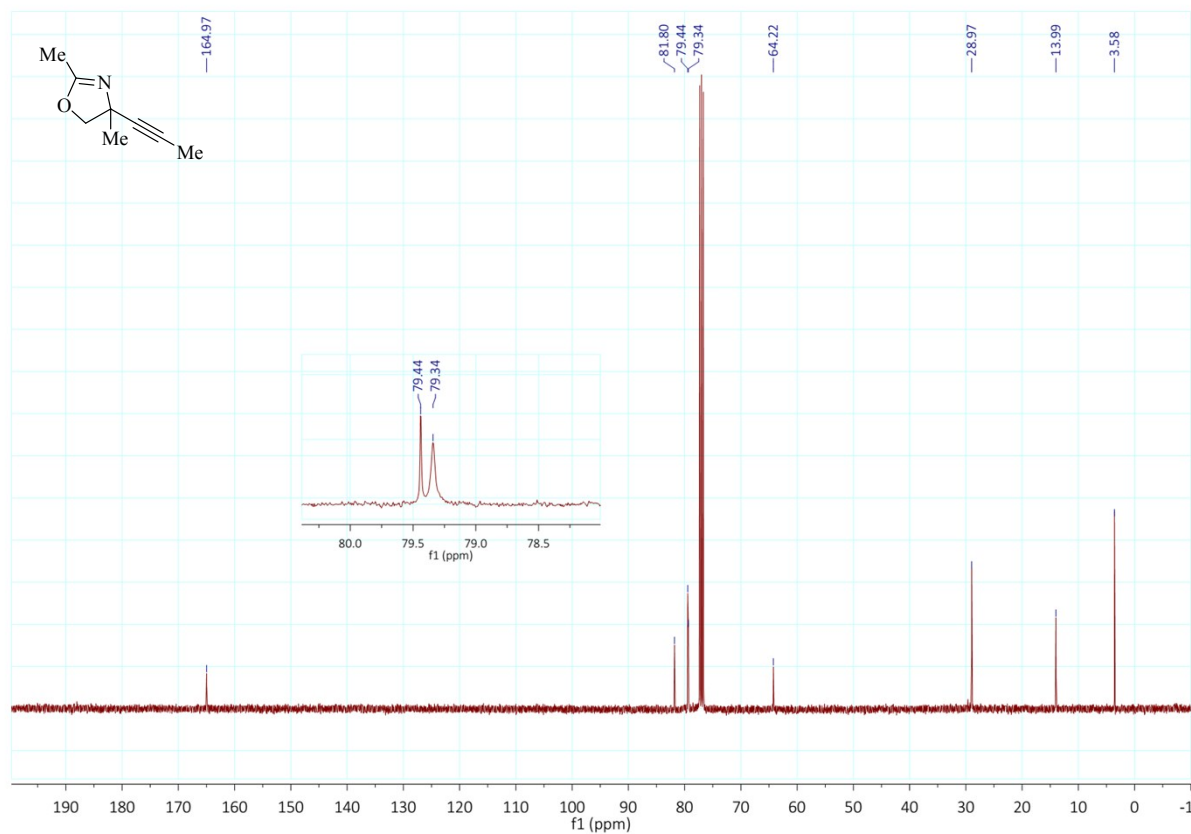
¹³C NMR of 4-(3-(Benzyloxy)prop-1-yn-1-yl)-2,4-dimethyloxazoline (6g) in CDCl₃:



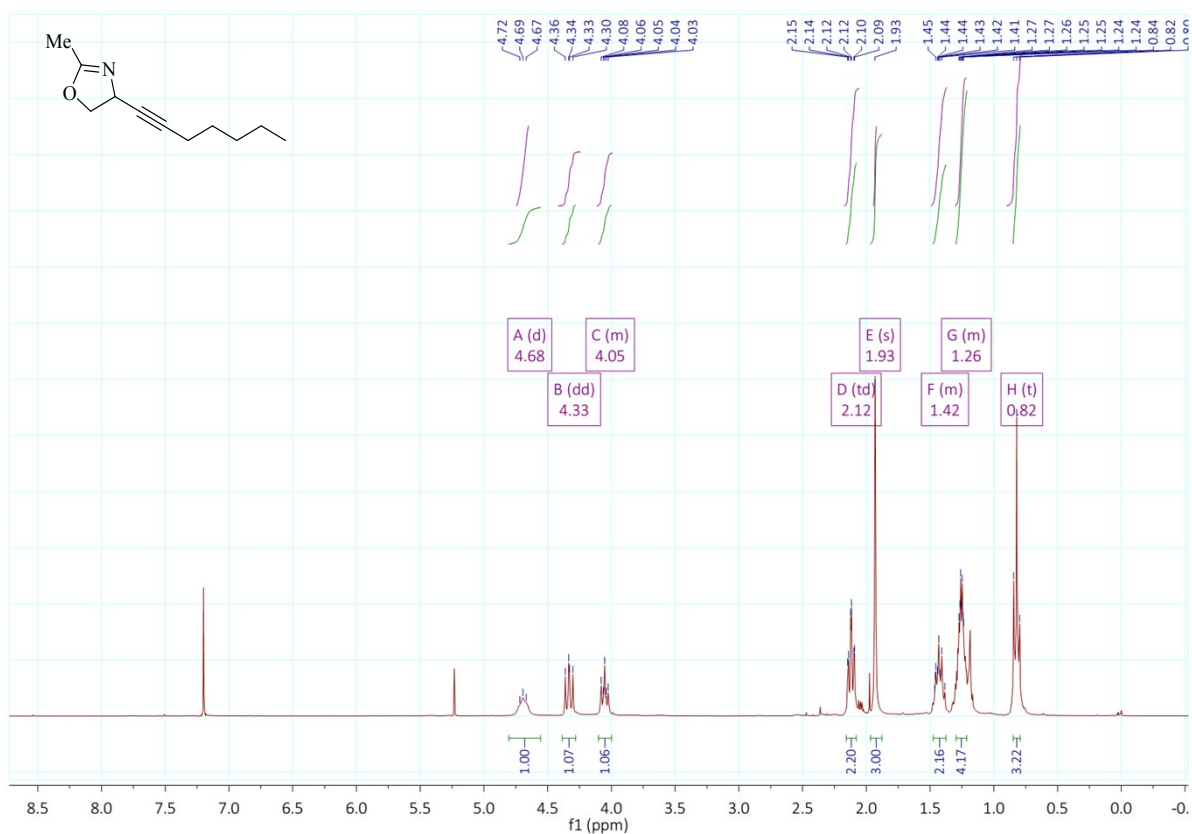
¹H NMR of 2,4-dimethyl-4-(prop-1-yn-1-yl)-oxazoline (6h) in CDCl₃:



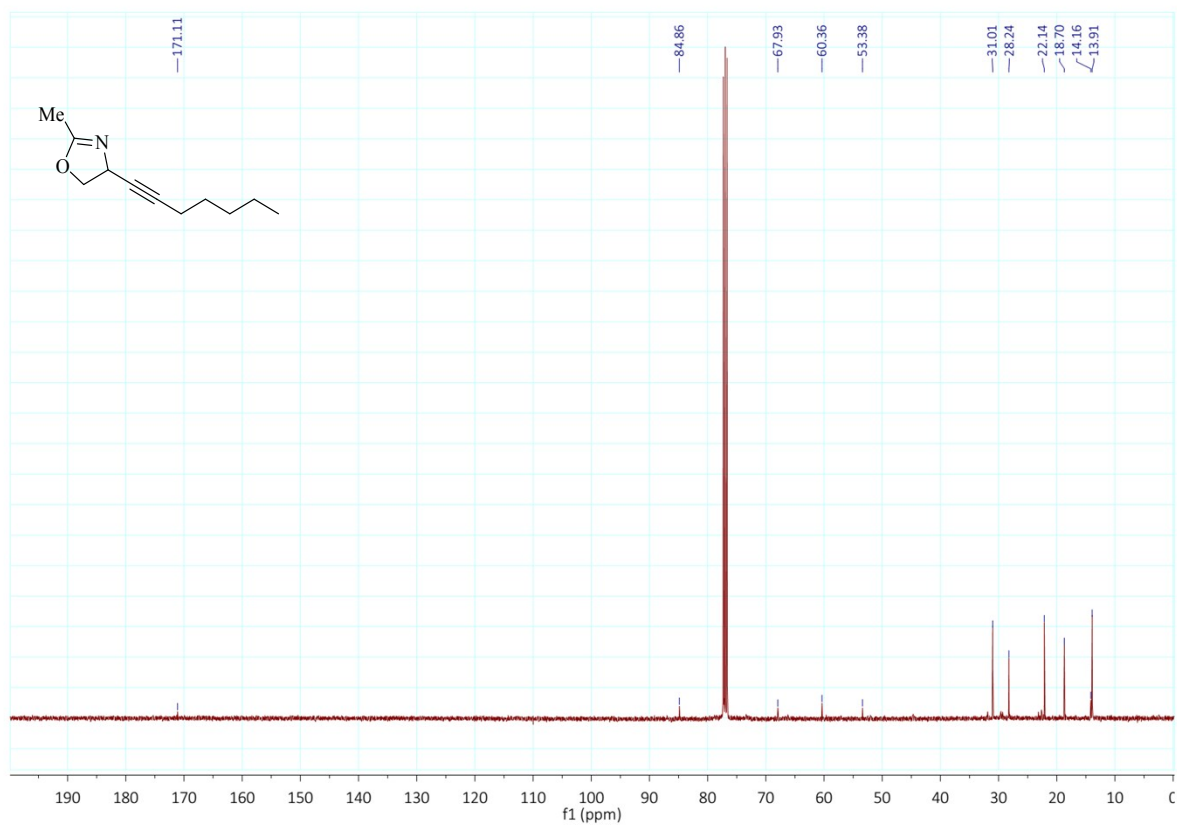
¹³C NMR of 2,4-dimethyl-4-(prop-1-yn-1-yl)-oxazoline (6h) in CDCl₃:



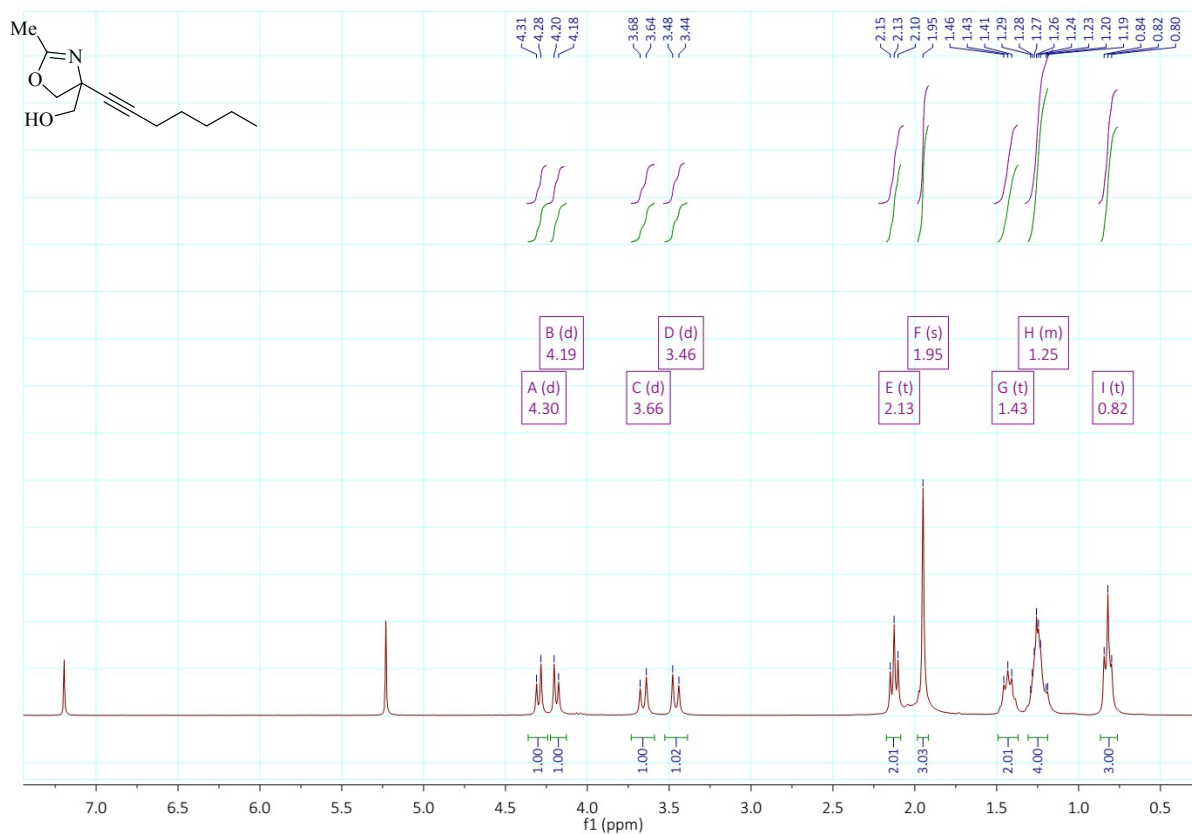
¹H NMR of 4-(hept-1-yn-1-yl)-2-methyl-oxazoline (6k) in CDCl₃:



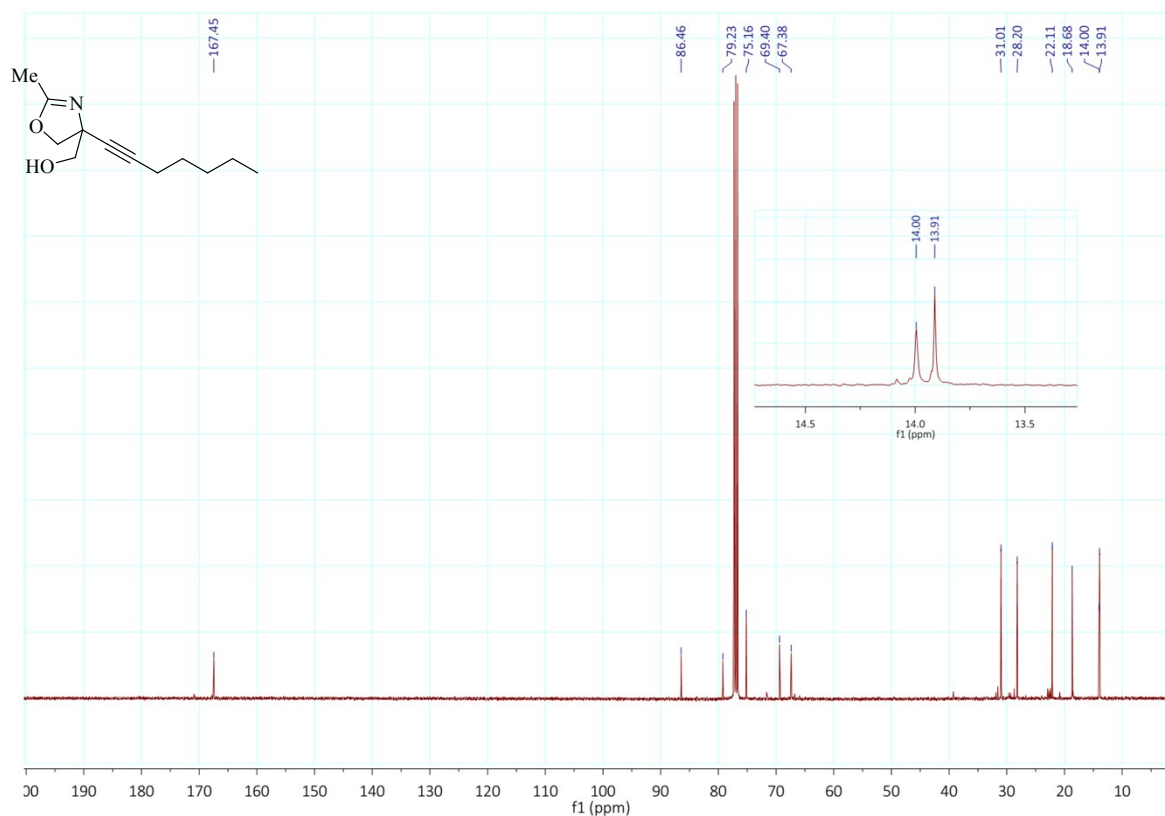
¹³C NMR of 4-(hept-1-yn-1-yl)-2-methyl-oxazoline (6k) in CDCl₃:



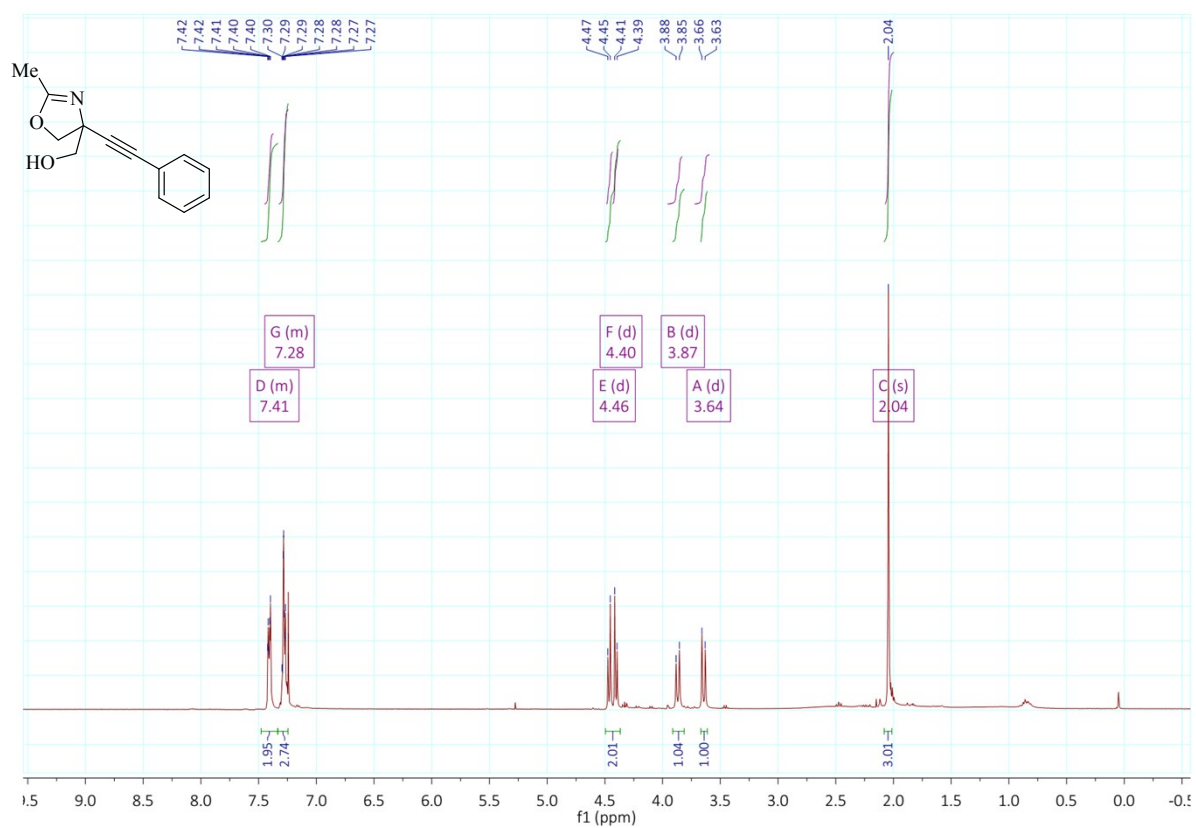
¹H NMR of (4-(hept-1-yn-1-yl)-2-methyl-4,5-dihydrooxazol-4-yl) methanol (6I) in CDCl₃:



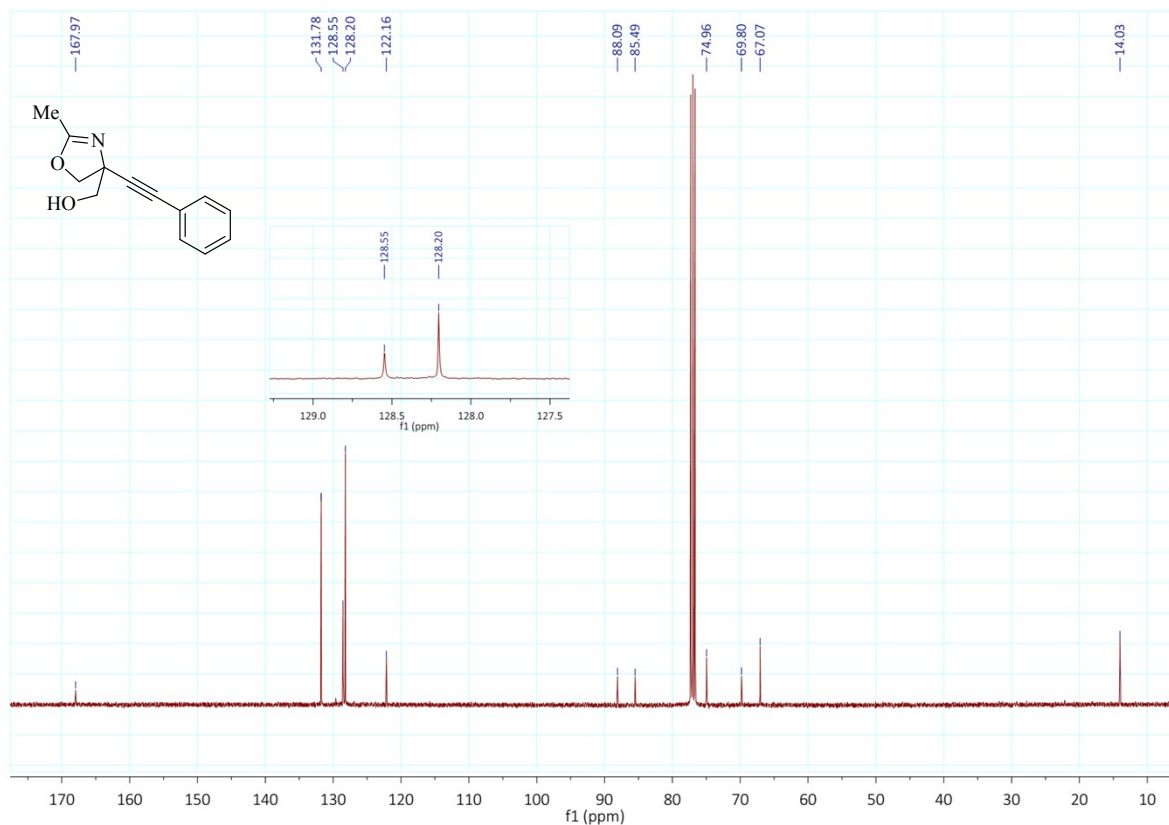
¹³C NMR of (4-(hept-1-yn-1-yl)-2-methyl-4,5-dihydrooxazol-4-yl) methanol (6I) in CDCl₃:



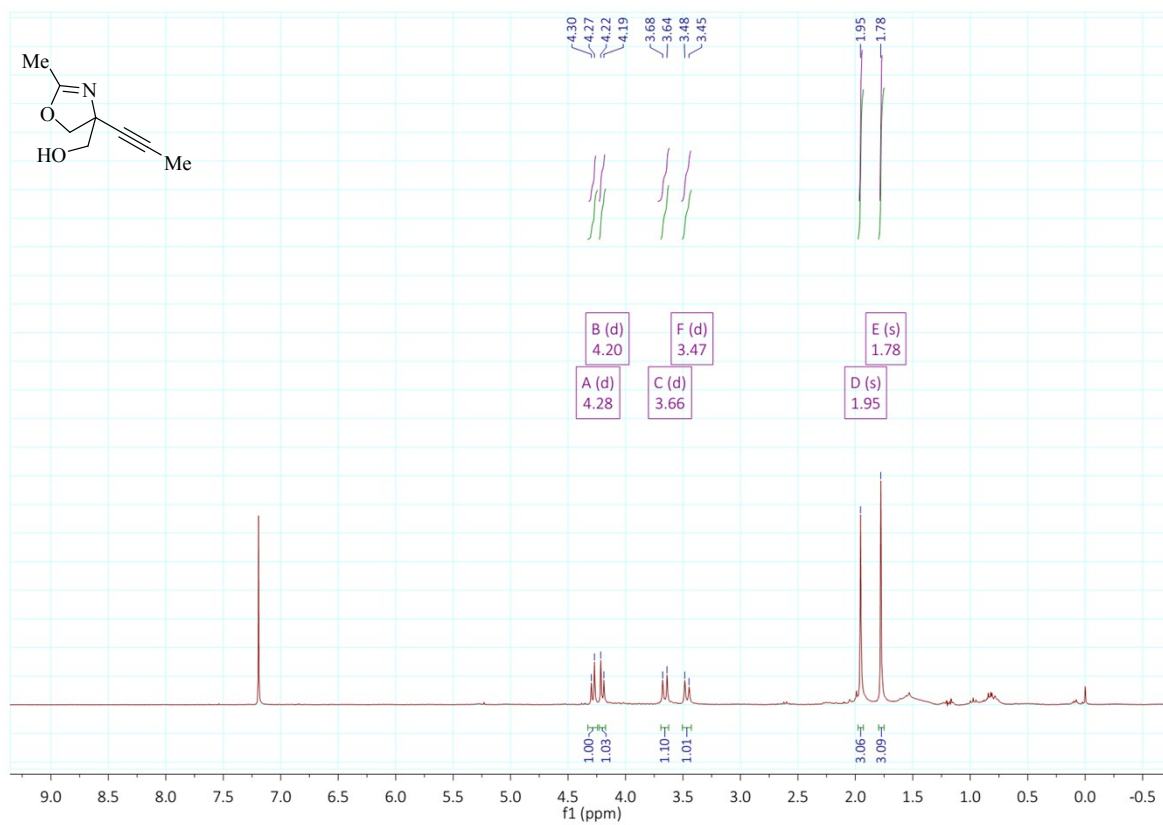
^1H NMR of (2-methyl-4-(phenylethynyl)-4,5-dihydrooxazol-4-yl) methanol (6m) in CDCl_3 :



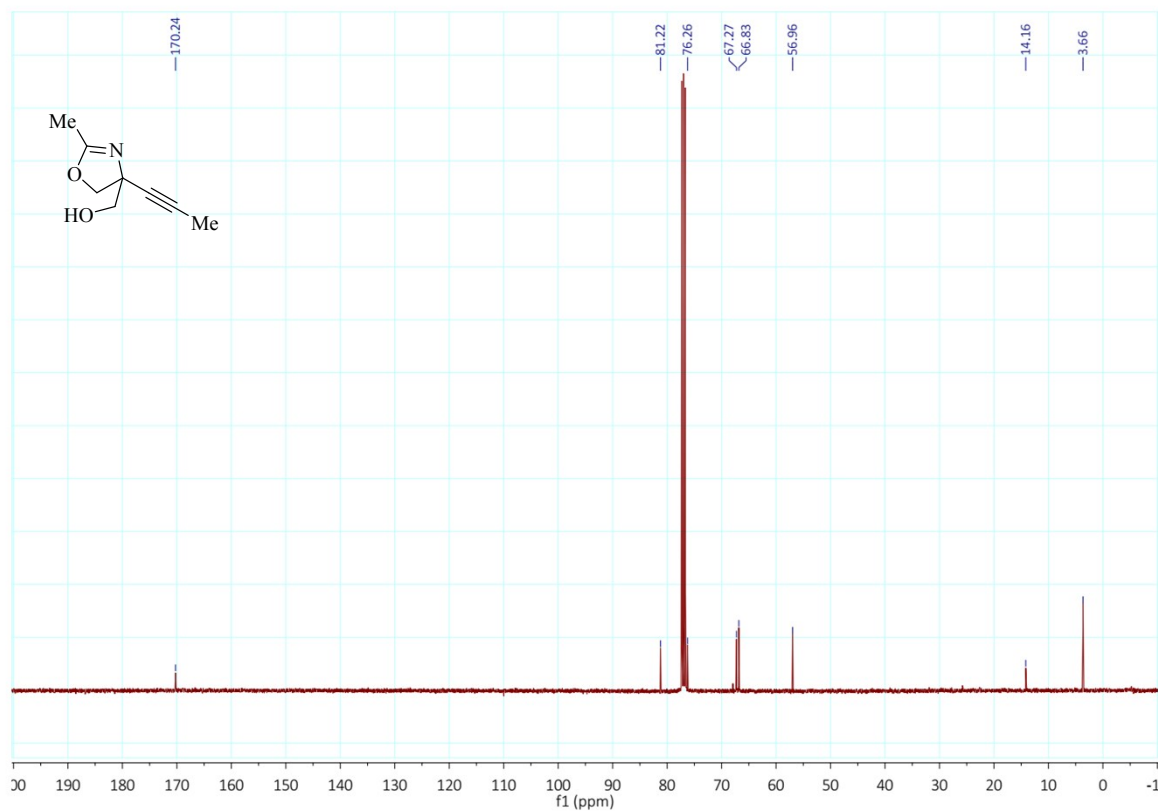
^{13}C NMR of (2-methyl-4-(phenylethynyl)-4,5-dihydrooxazol-4-yl) methanol (6m) in CDCl_3 :



^1H NMR of (2-methyl-4-(prop-1-yn-1-yl)-4,5-dihydrooxazol-4-yl)methanol (6n) in CDCl_3 :

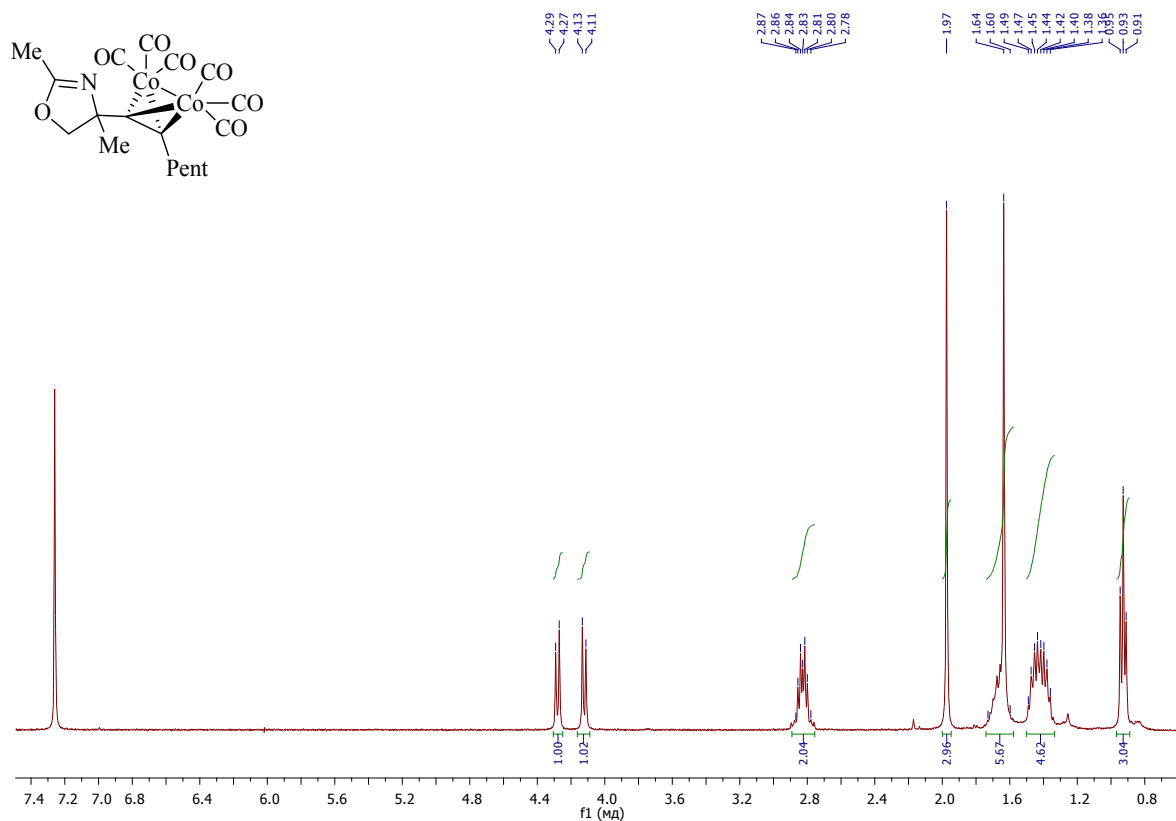


^{13}C NMR of (2-methyl-4-(prop-1-yn-1-yl)-4,5-dihydrooxazol-4-yl)methanol (6n) in CDCl_3 :

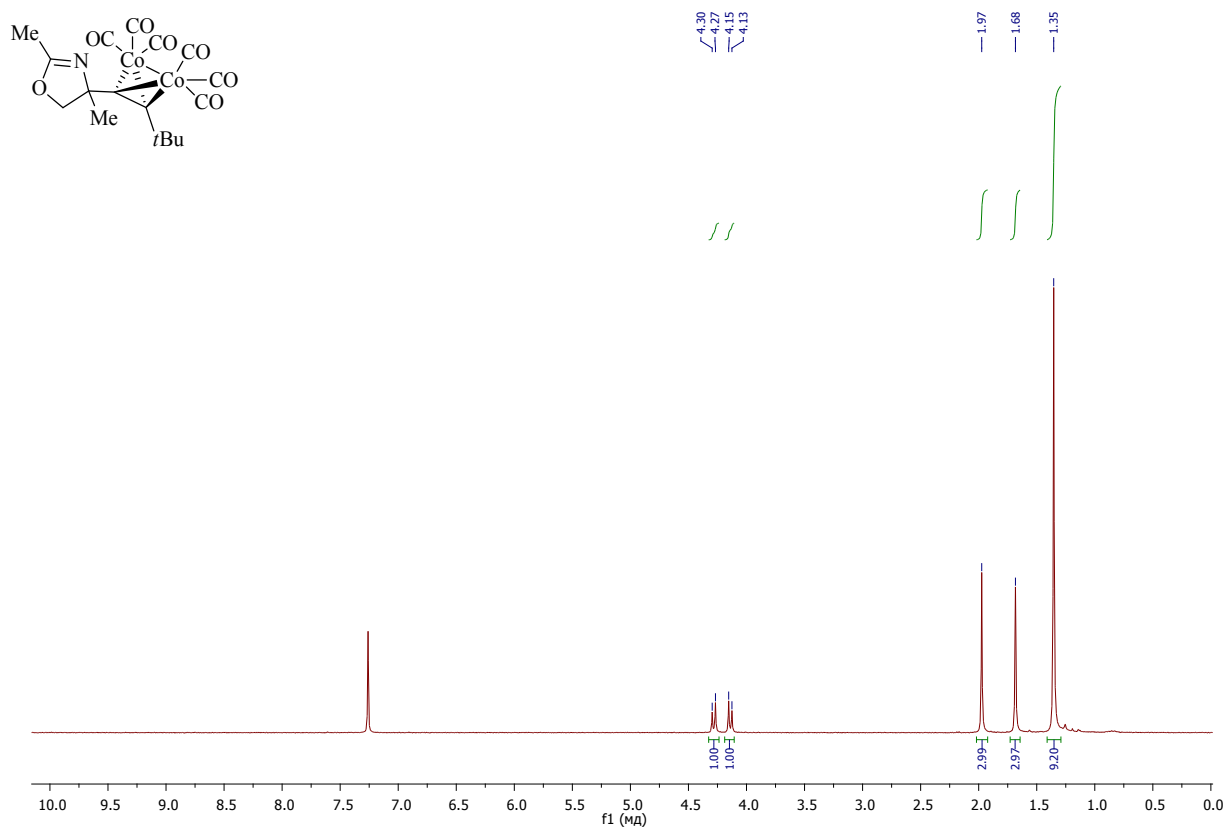


2. NMR spectra of cobalt-complexed oxazolines **5**

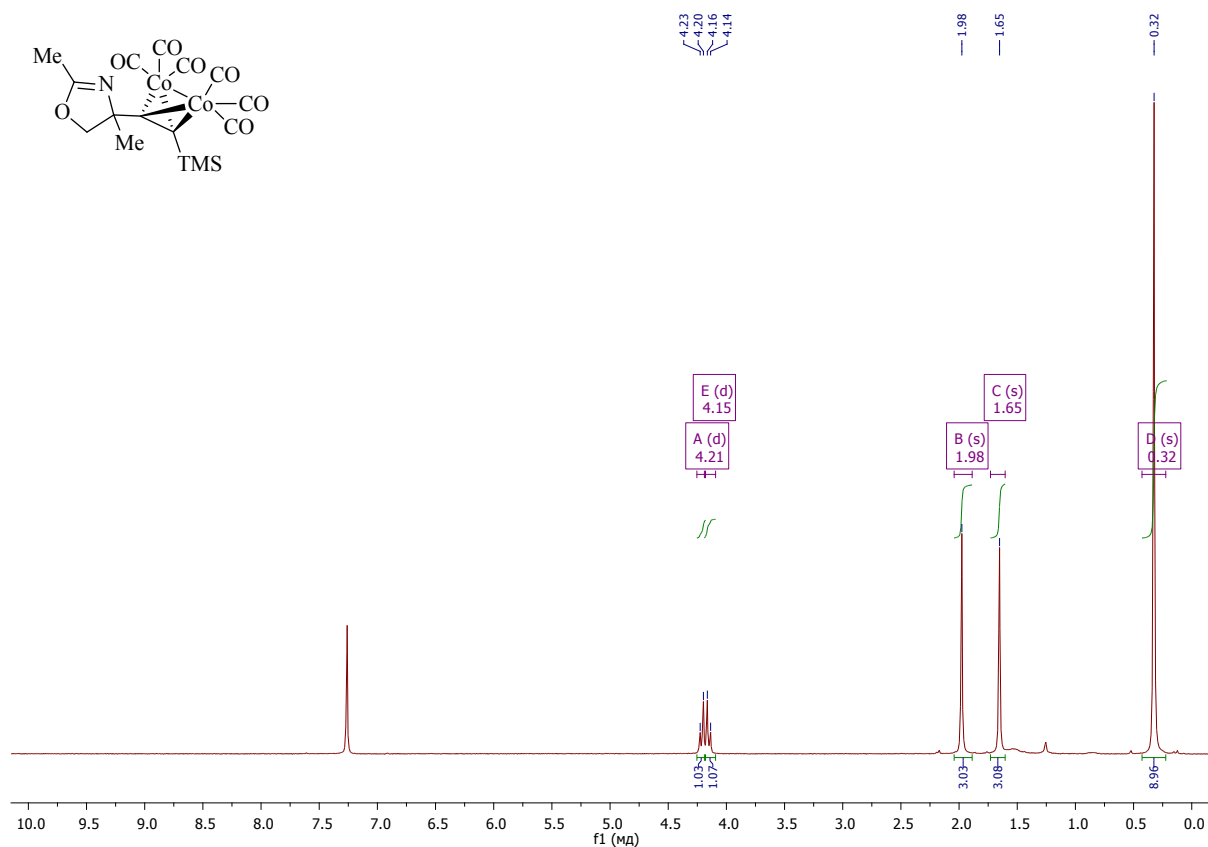
^1H NMR of Cobalt-complexed oxazoline (**5a**) in CDCl_3 :



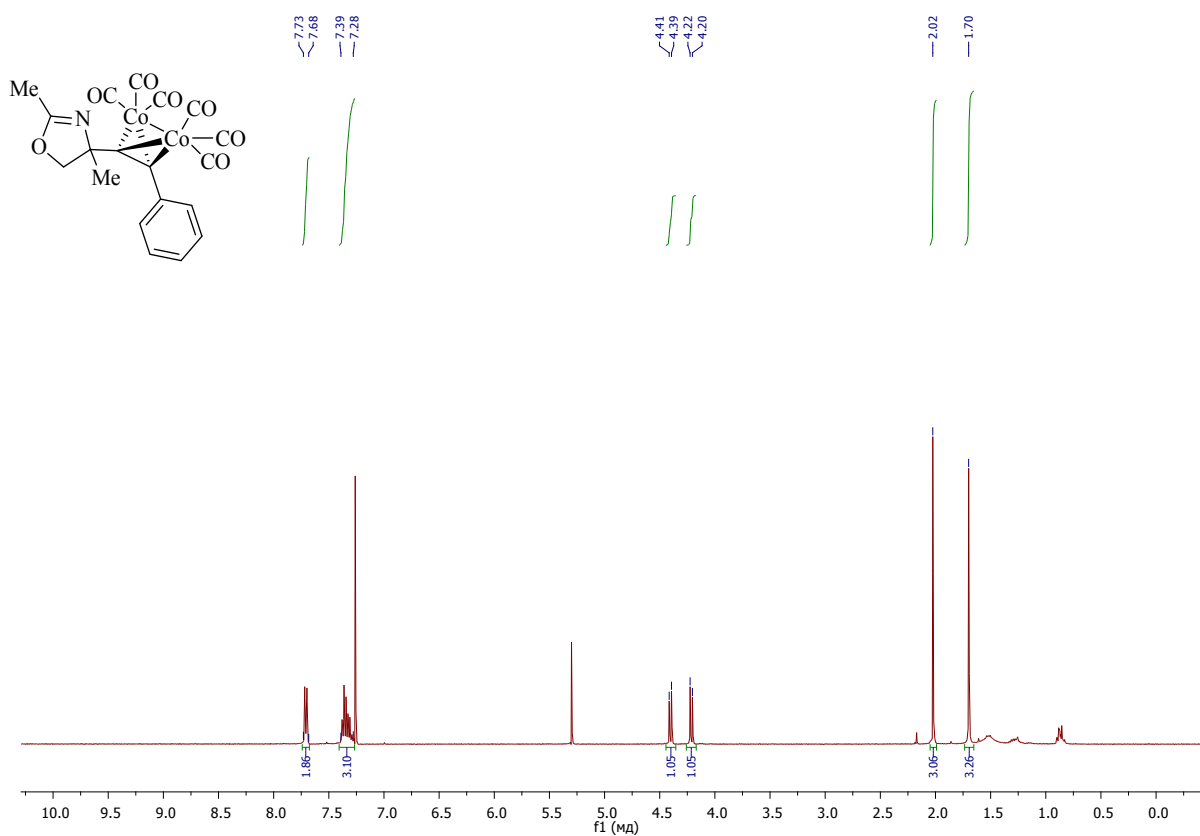
^1H NMR of Cobalt-complexed oxazoline (**5b**) in CDCl_3 :



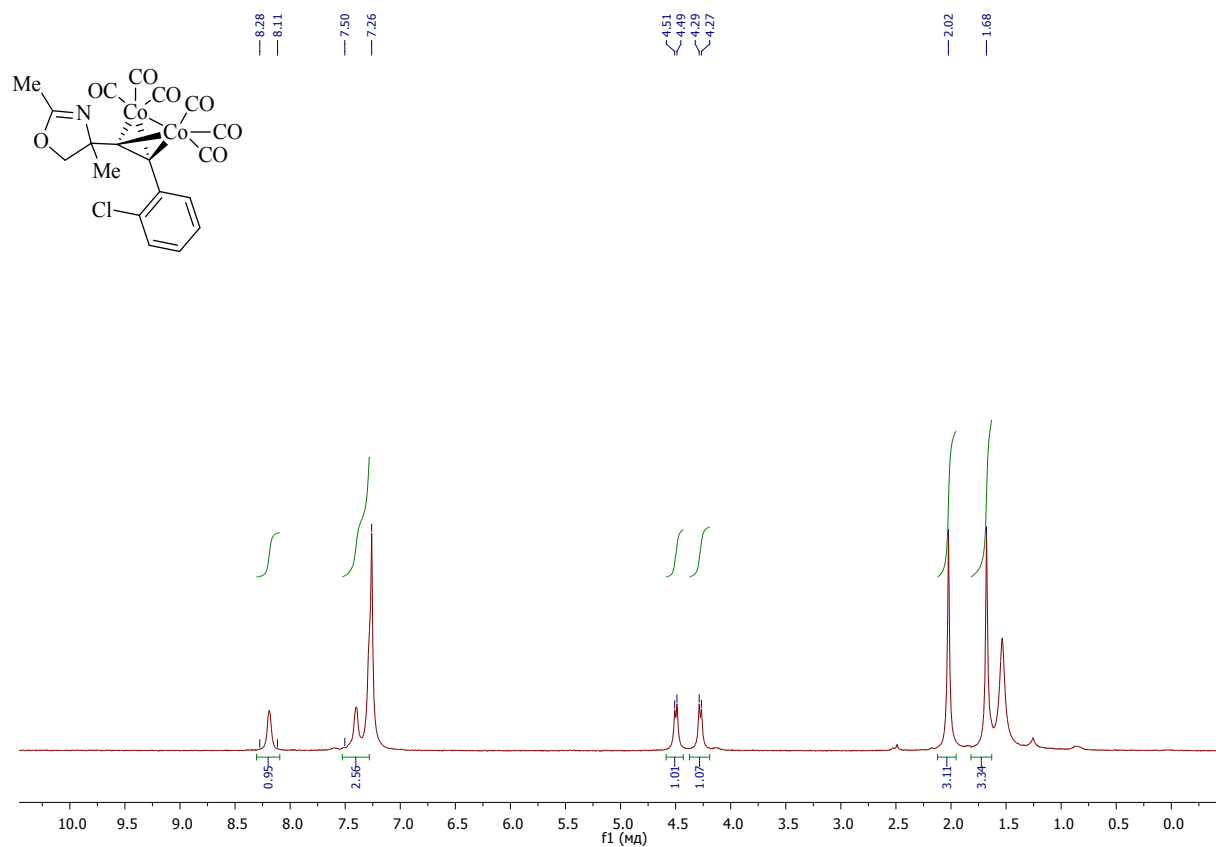
¹H NMR of Cobalt-complexed oxazoline (5c) in CDCl₃:



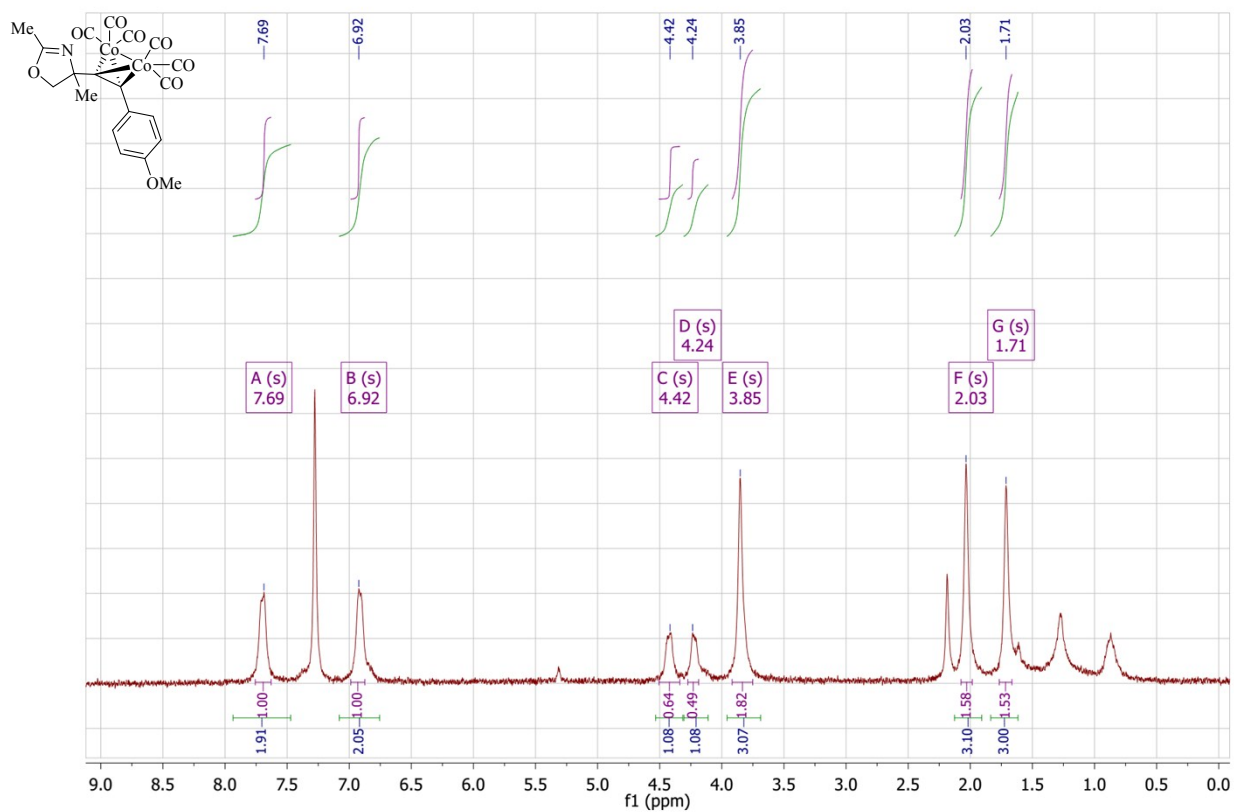
¹H NMR of Cobalt-complexed oxazoline (5d) in CDCl₃:



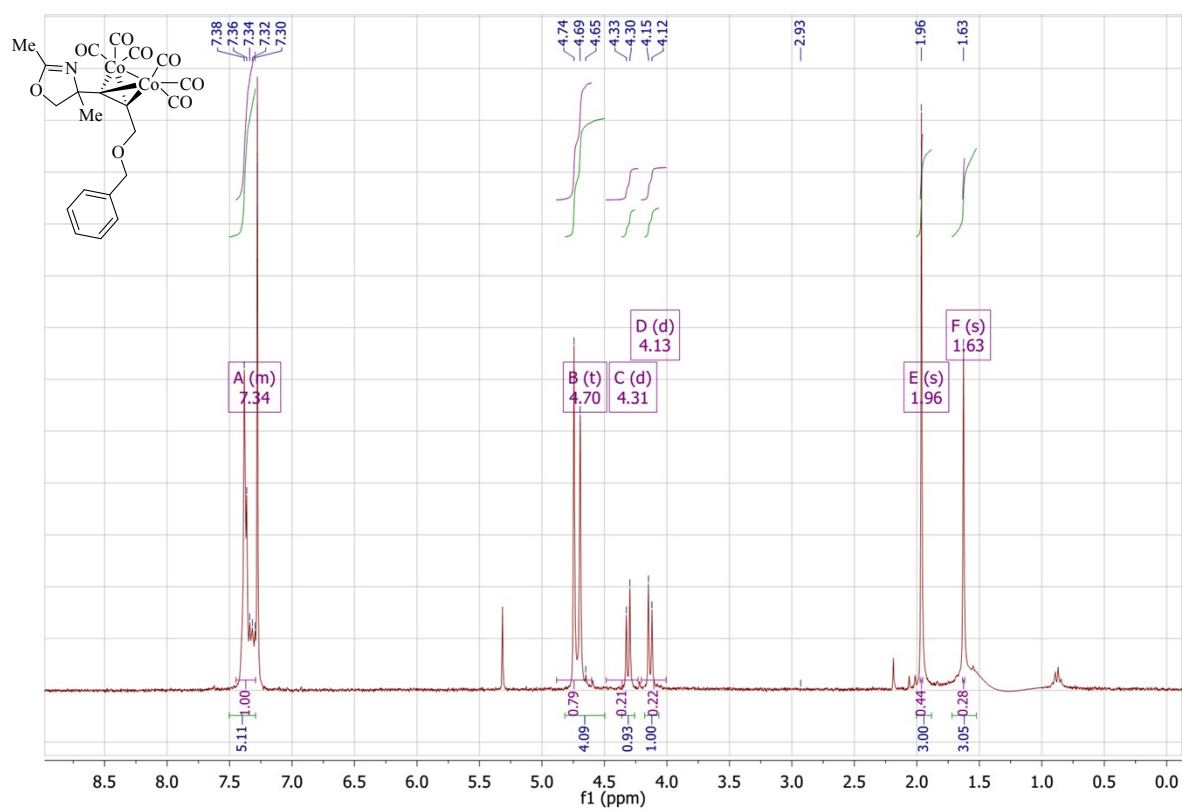
^1H NMR of Cobalt-complexed oxazoline (**5e**) in CDCl_3 :



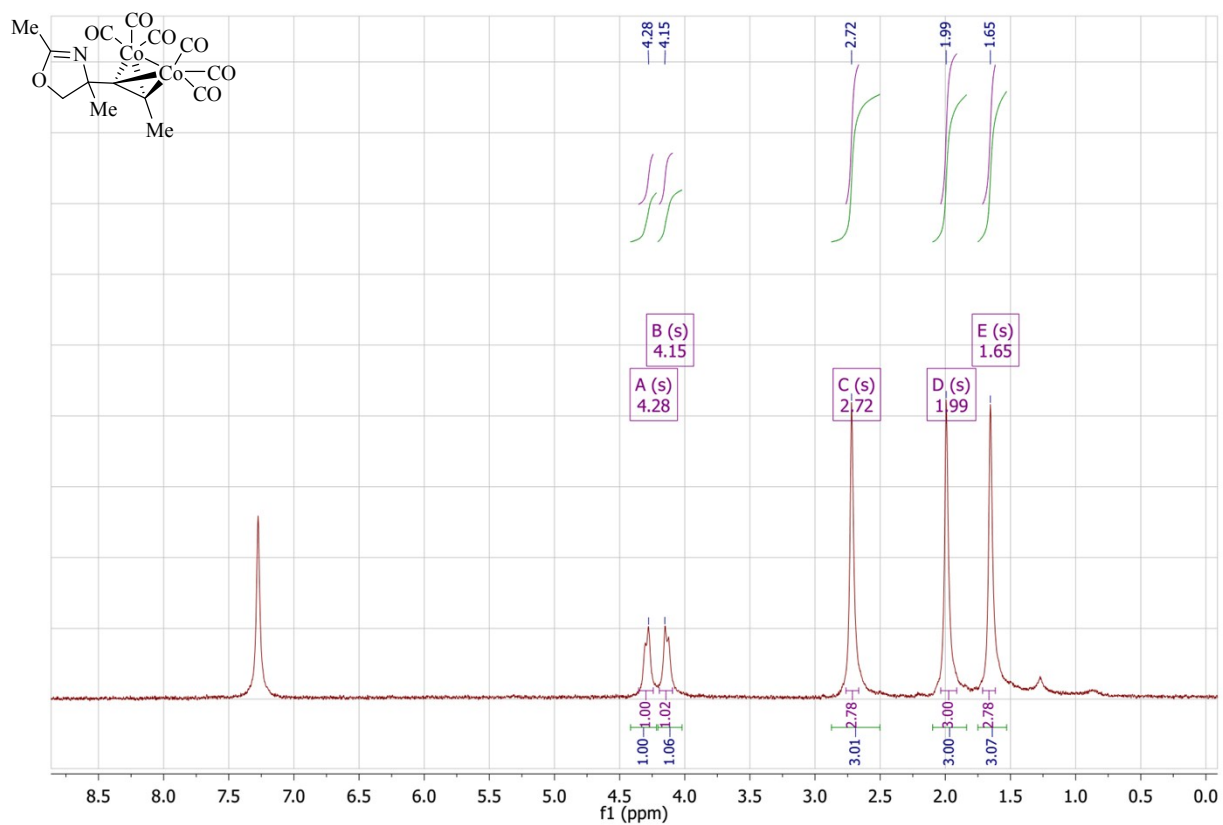
^1H NMR of Cobalt-complexed oxazoline (**5f**) in CDCl_3 :



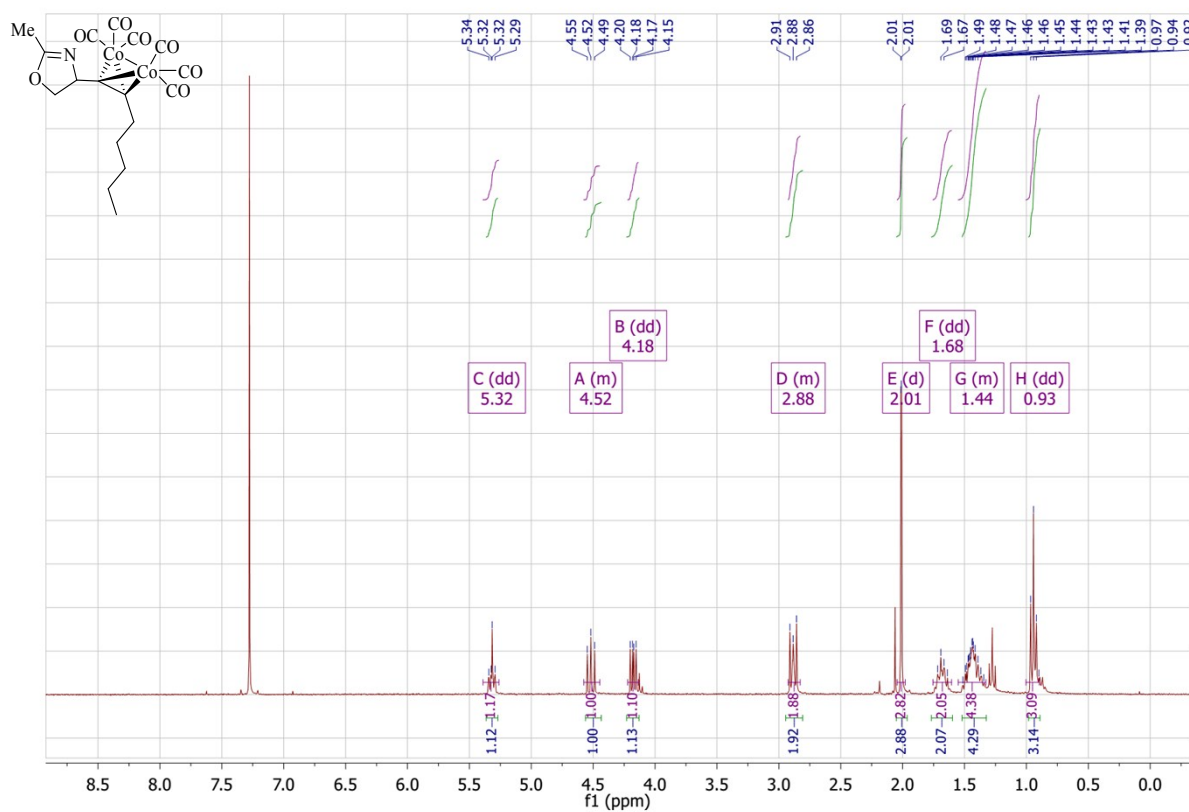
^1H NMR of Cobalt-complexed oxazoline (**5g**) in CDCl_3 :



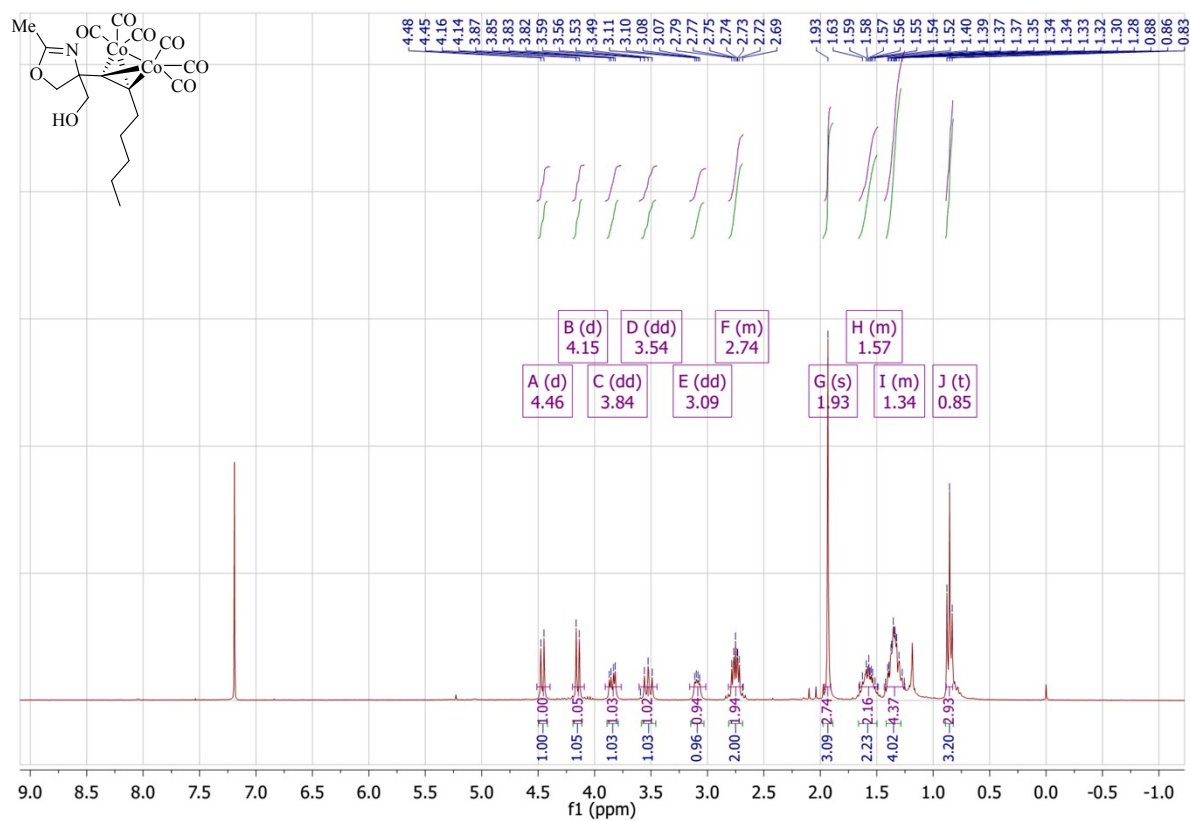
^1H NMR of Cobalt-complexed oxazoline (**5h**) in CDCl_3 :



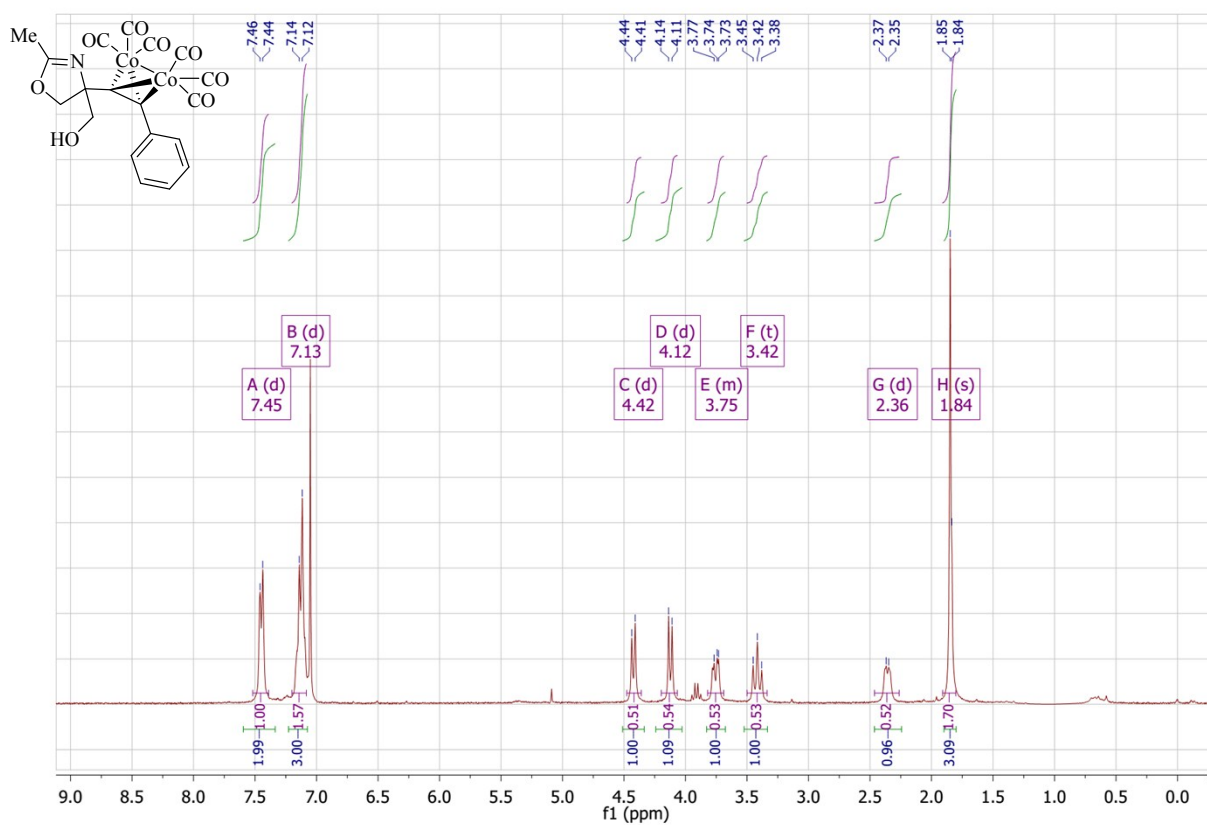
^1H NMR of Cobalt-complexed oxazoline (**5k**) in CDCl_3 :



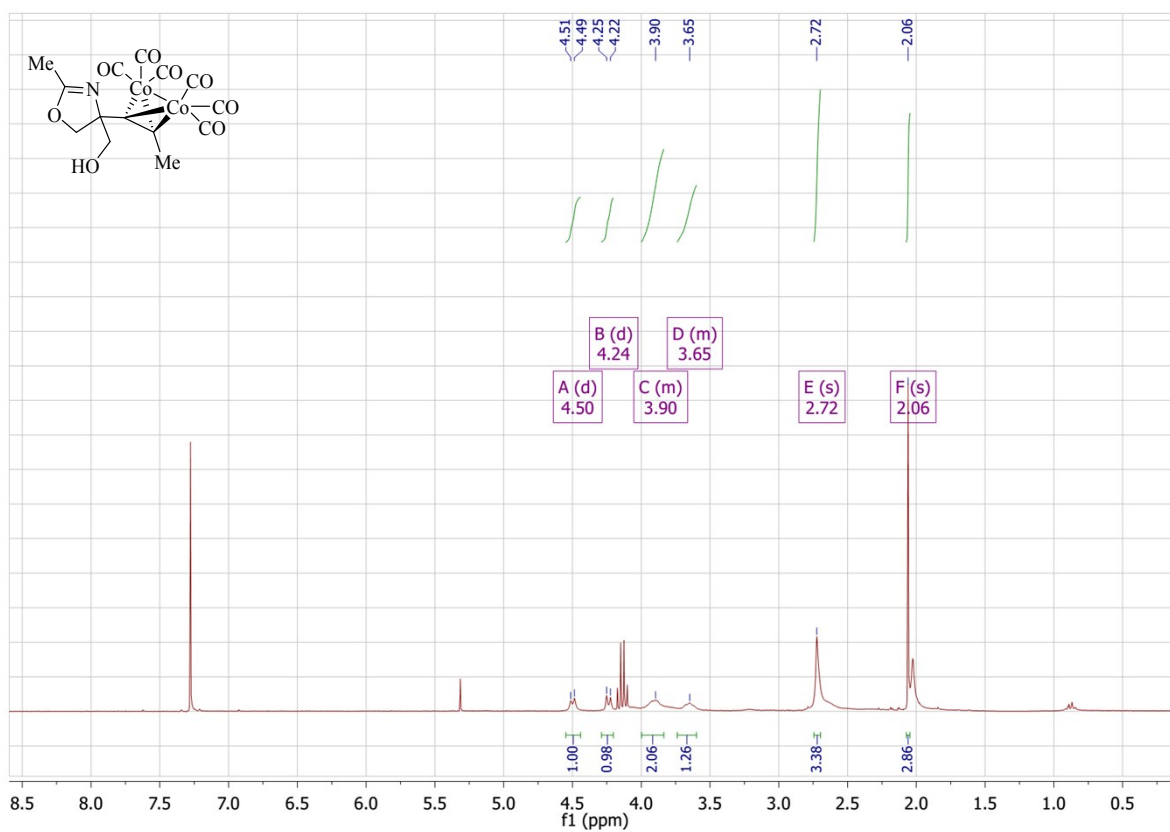
^1H NMR of Cobalt-complexed oxazoline (**5l**) in CDCl_3 :



^1H NMR of Cobalt-complexed oxazoline (**5m**) in CDCl_3 :

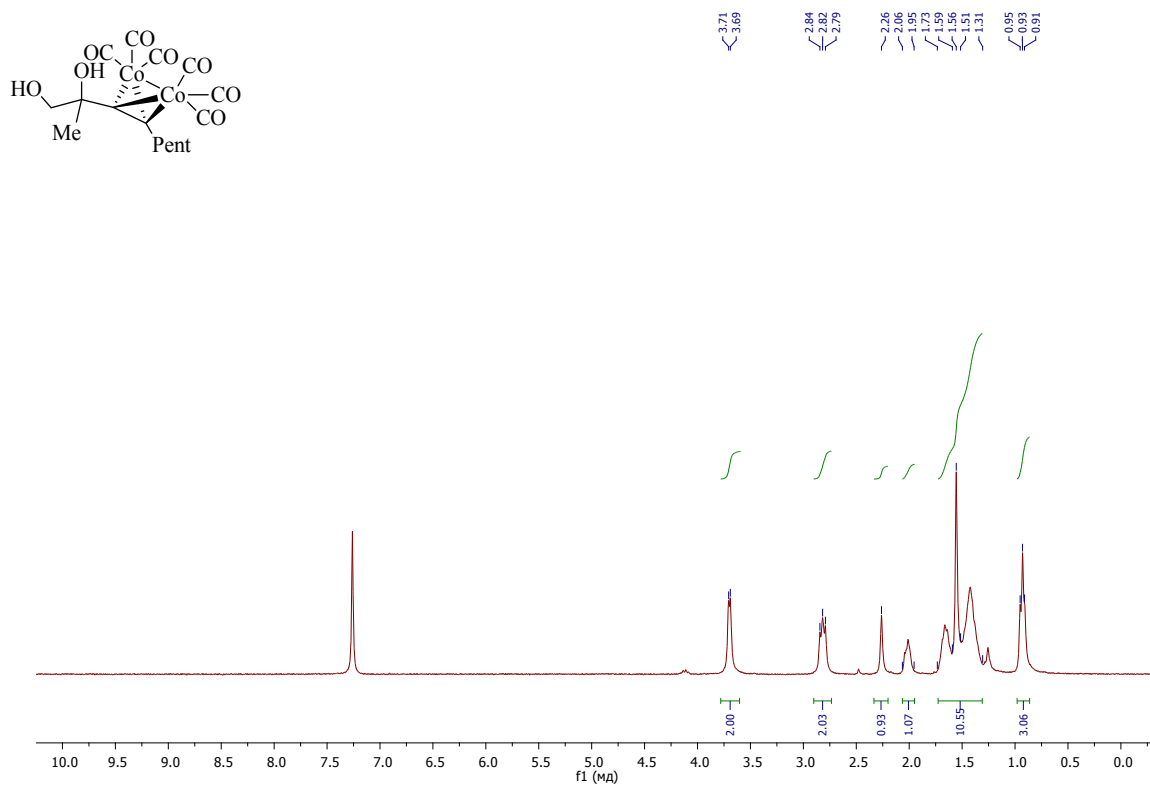


^1H NMR of Cobalt-complexed oxazoline (**5n**) in CDCl_3 :

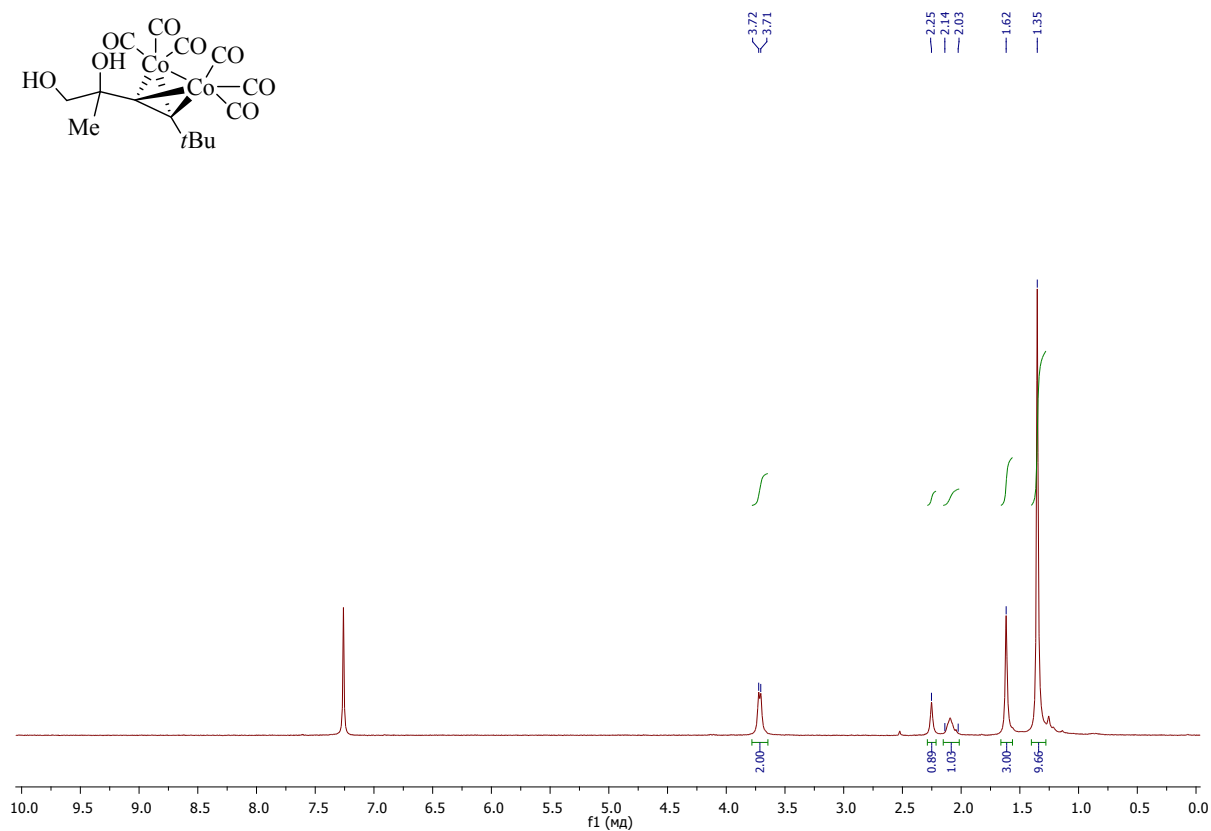


3. NMR spectra of cobalt-complexed propargyl alcohols **4** and **9**

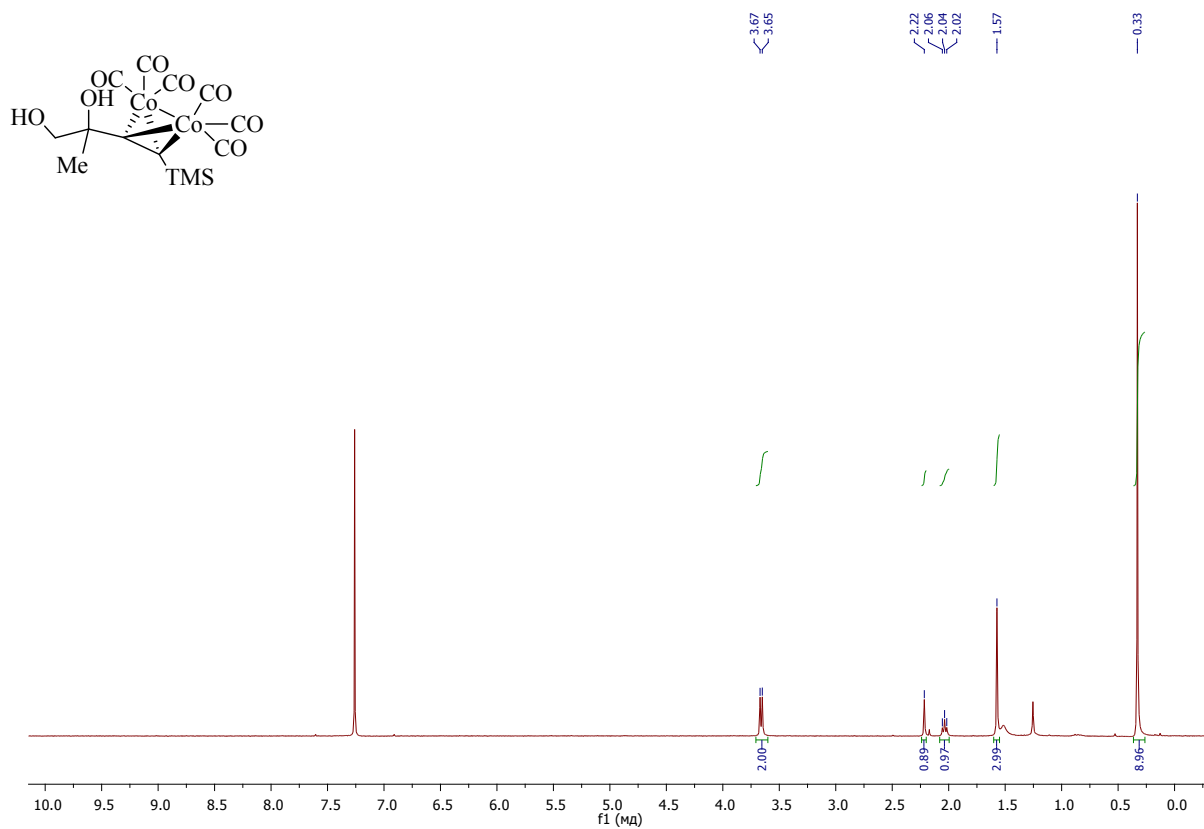
^1H NMR of Cobalt-complexed alcohol (**4a**) in CDCl_3 :



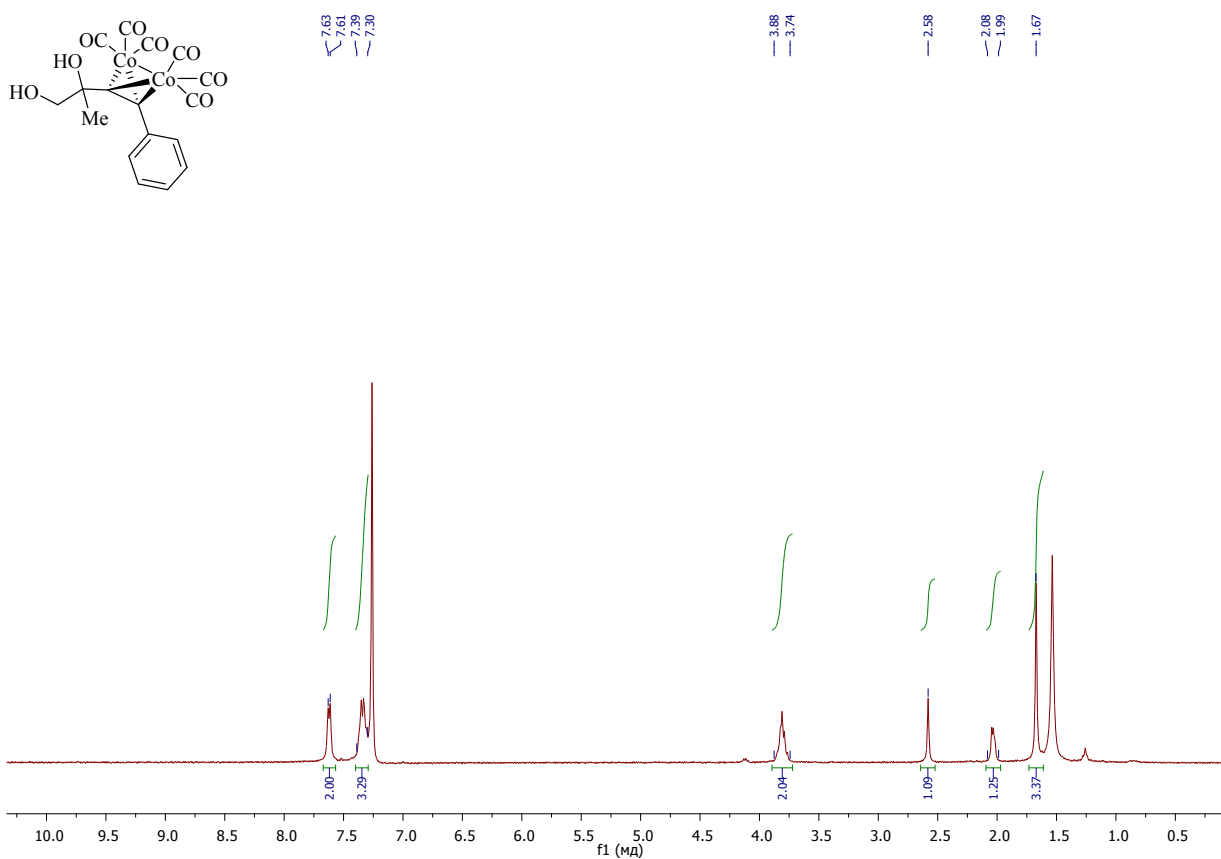
^1H NMR of Cobalt-complexed alcohol (**4b**) in CDCl_3 :



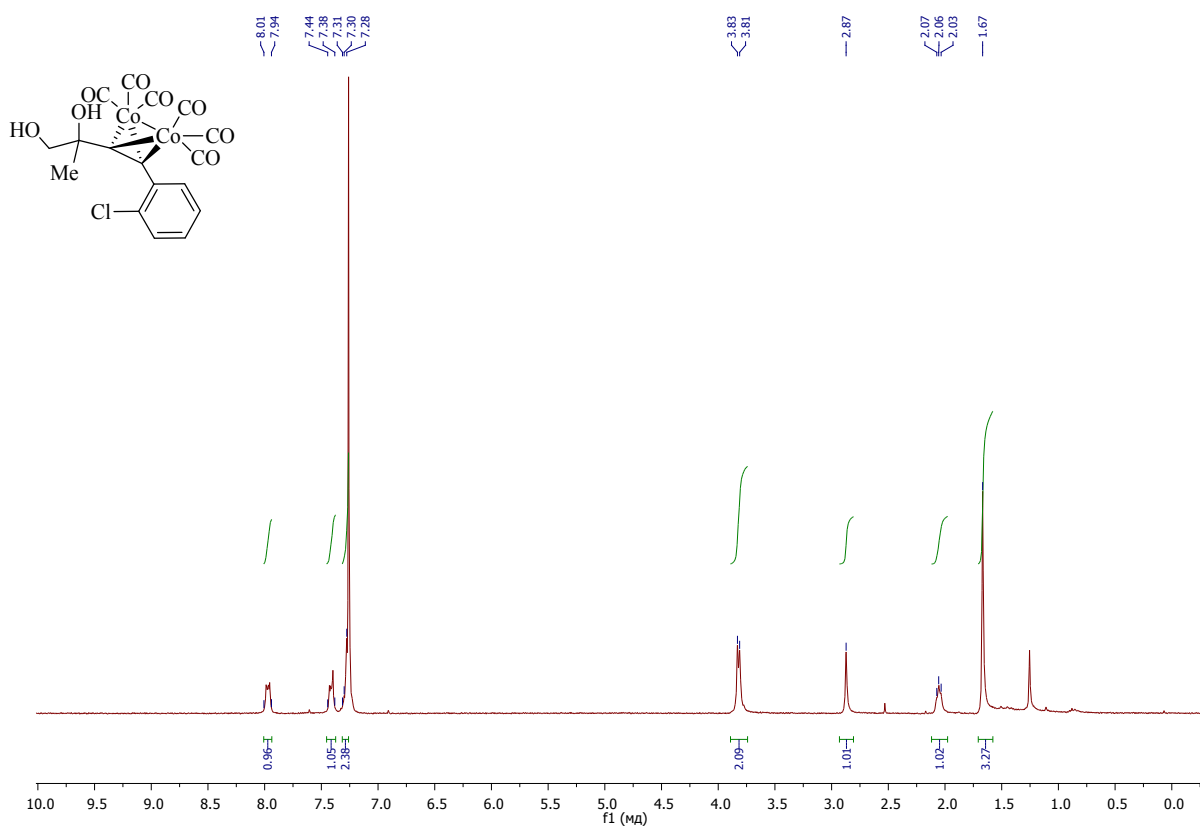
¹H NMR of Cobalt-complexed alcohol (4c) in CDCl₃:



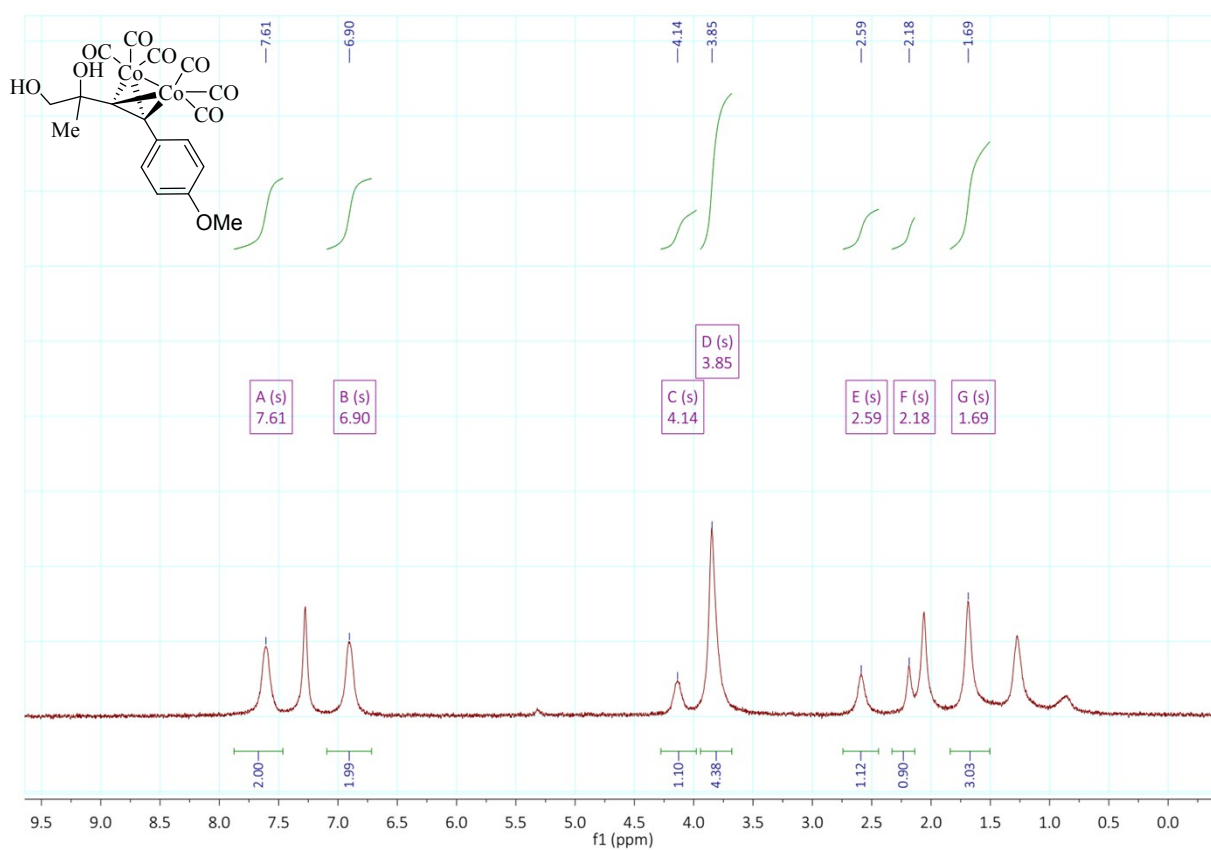
¹H NMR of Cobalt-complexed alcohol (4d) in CDCl₃:



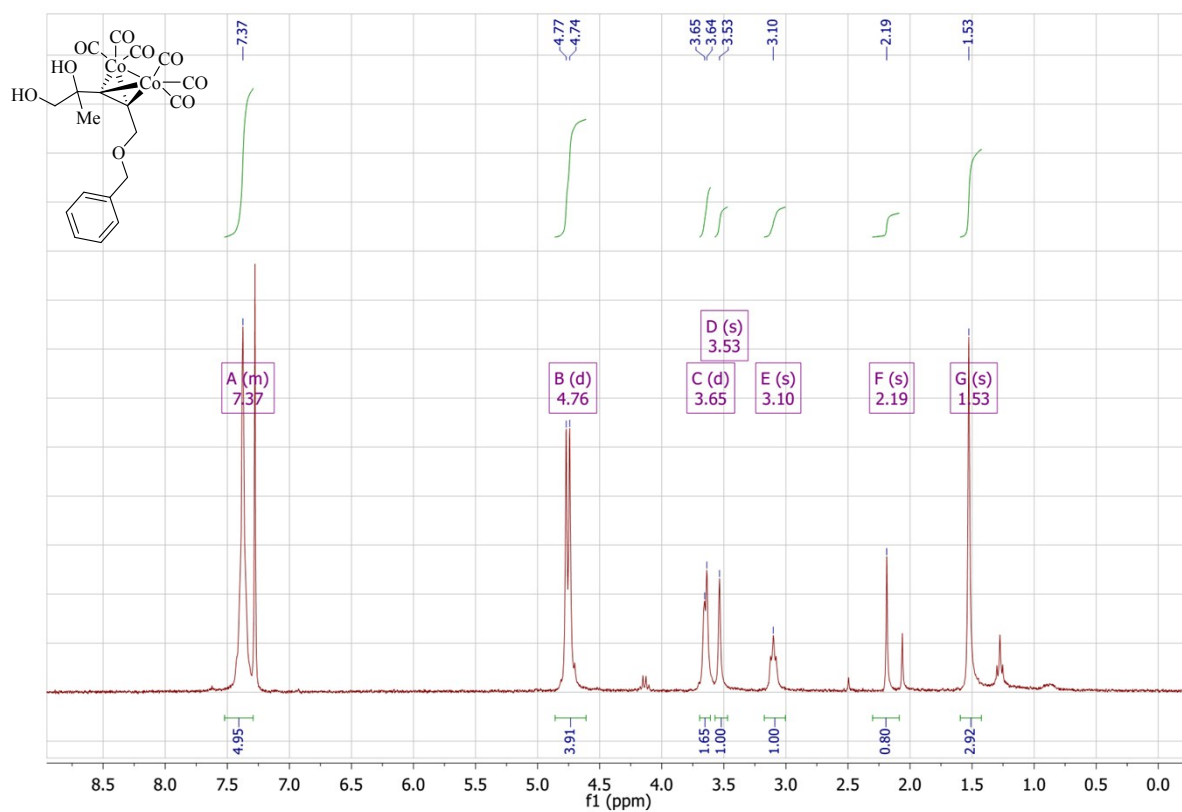
^1H NMR of Cobalt-complexed alcohol (**4e**) in CDCl_3 :



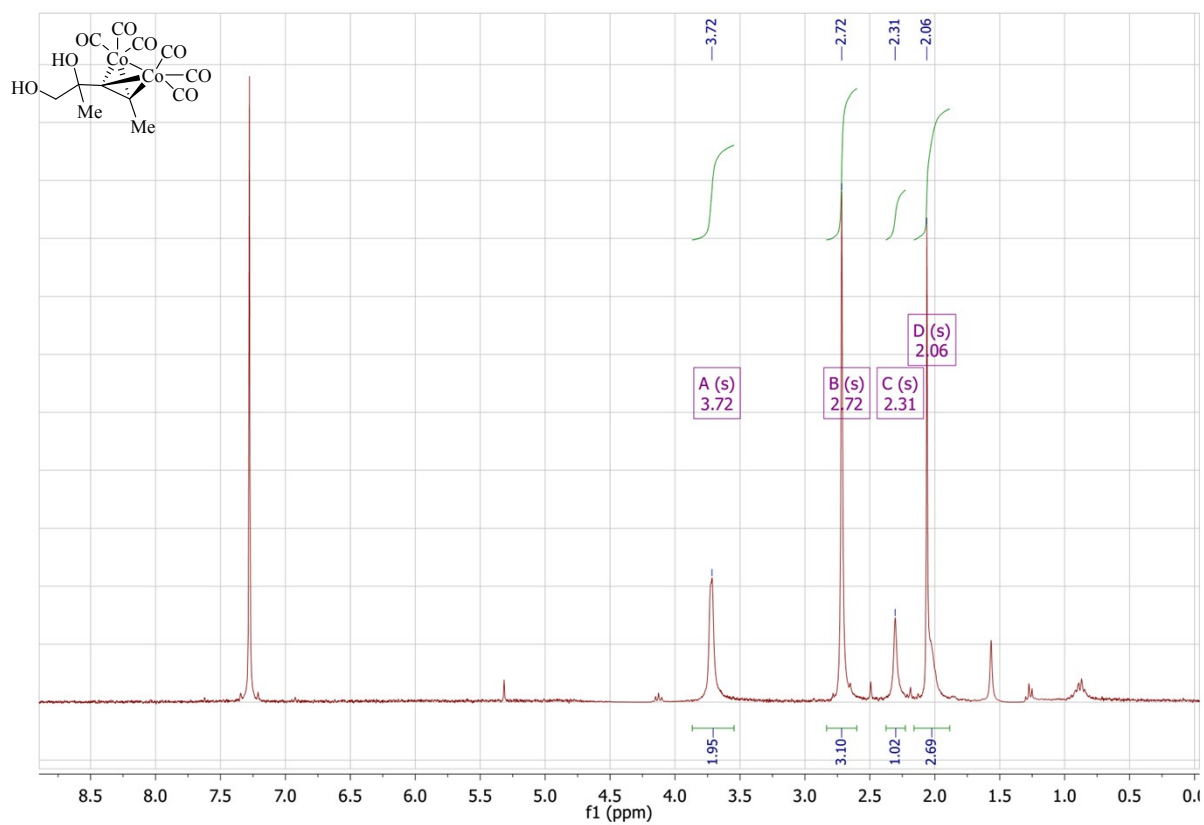
^1H NMR of Cobalt-complexed alcohol (**4f**) in CDCl_3 :



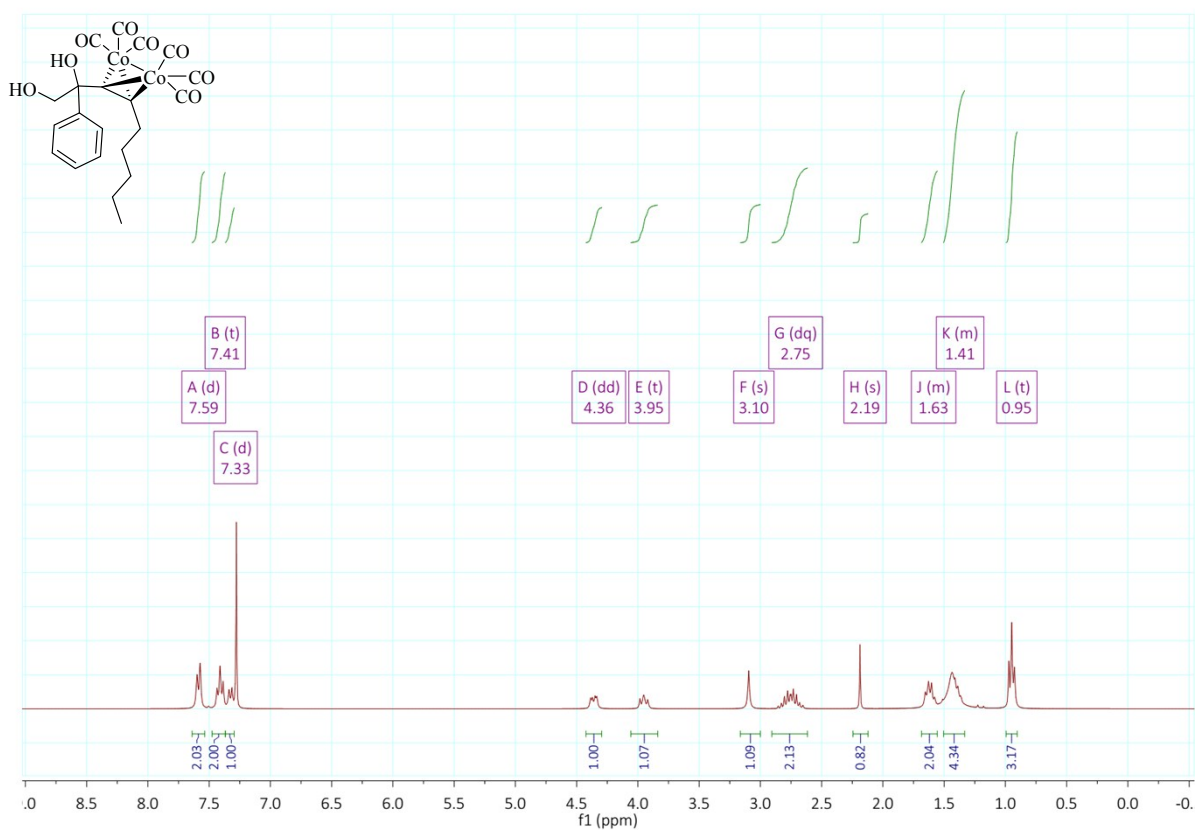
¹H NMR of Cobalt-complexed alcohol (**4g**) in CDCl₃:



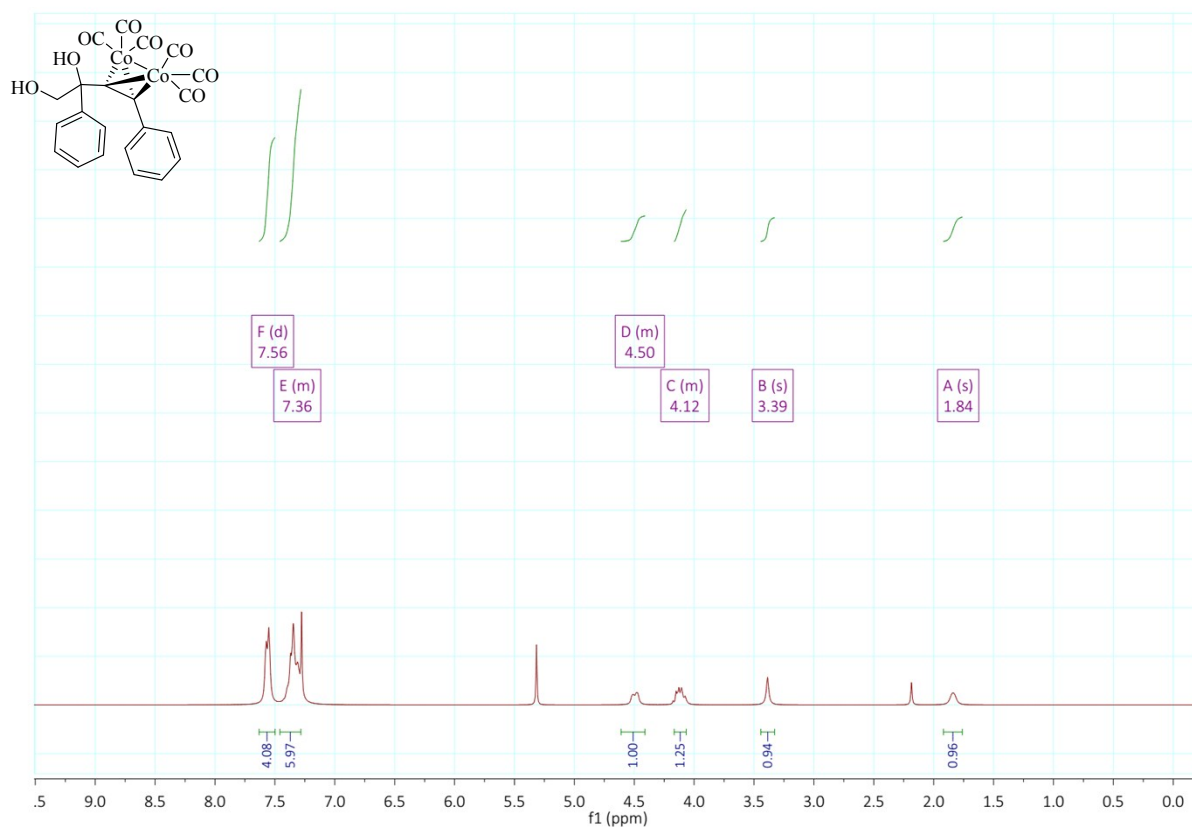
¹H NMR of Cobalt-complexed alcohol (**4h**) in CDCl₃:



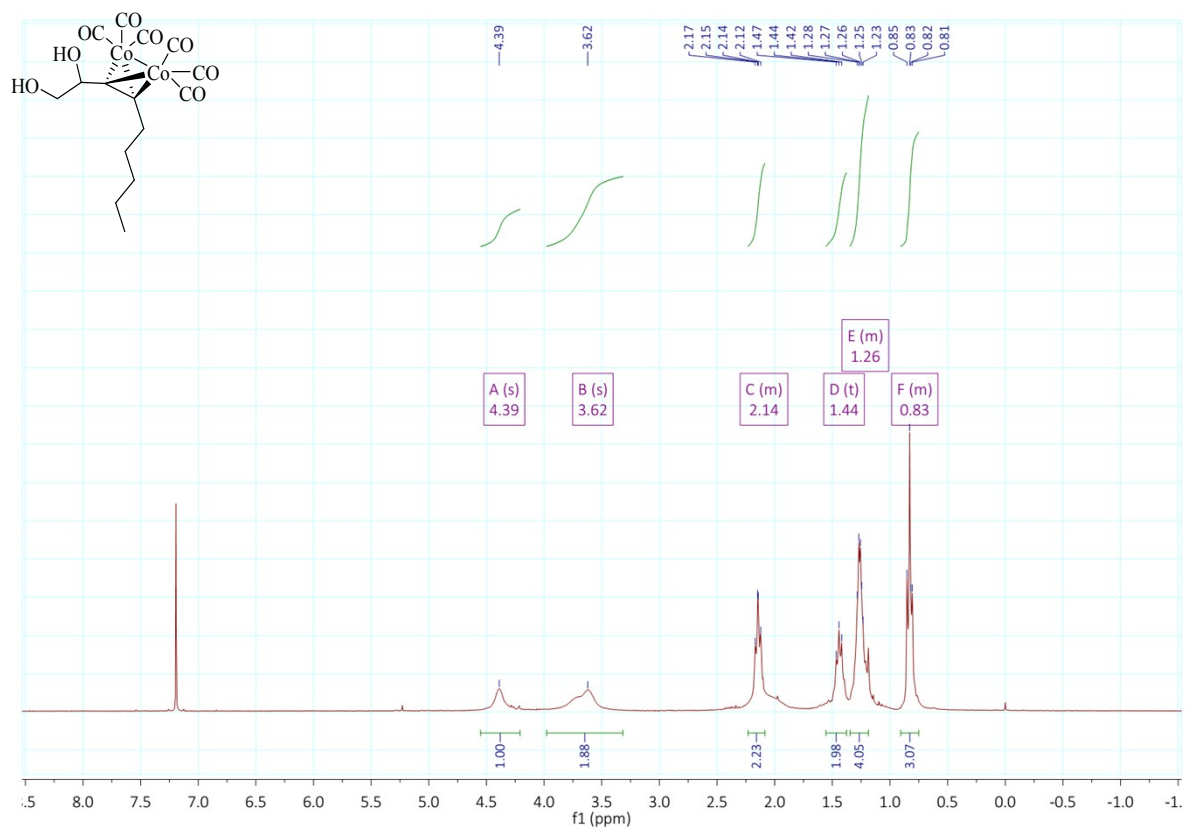
¹H NMR of Cobalt-complexed alcohol (**4i**) in CDCl₃:



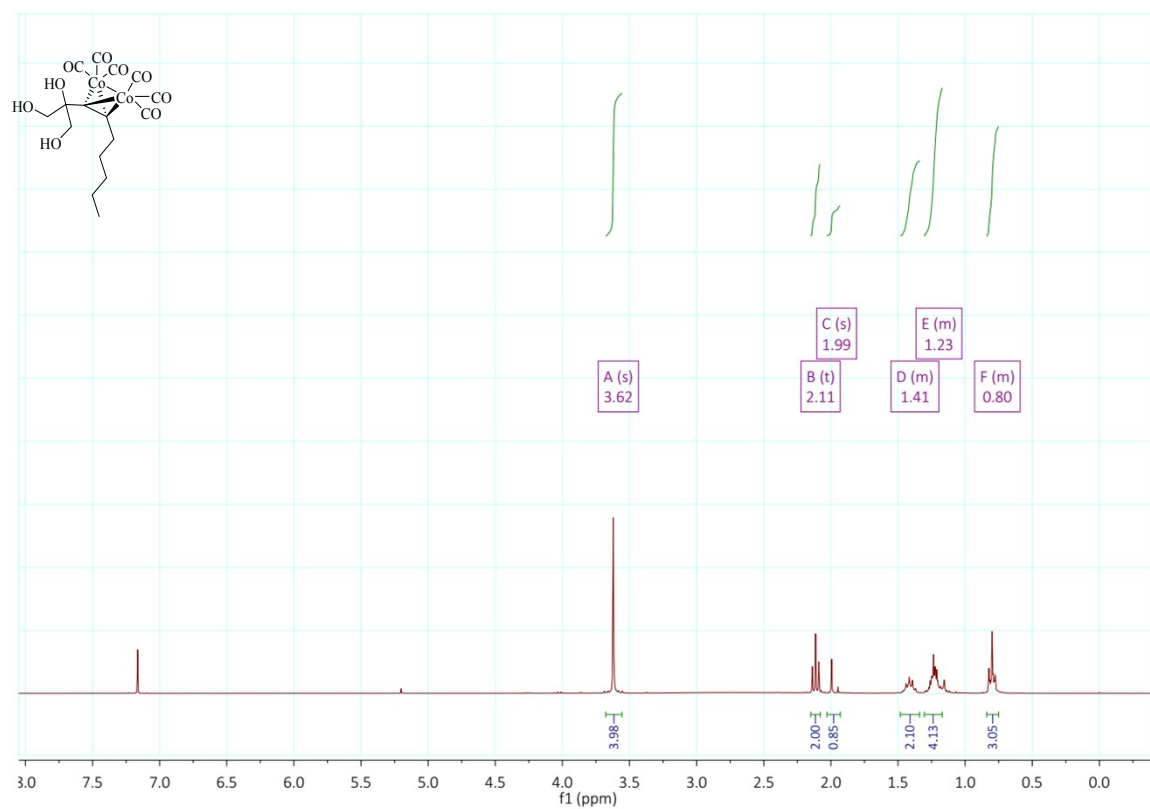
¹H NMR of Cobalt-complexed alcohol (**4j**) in CDCl₃:



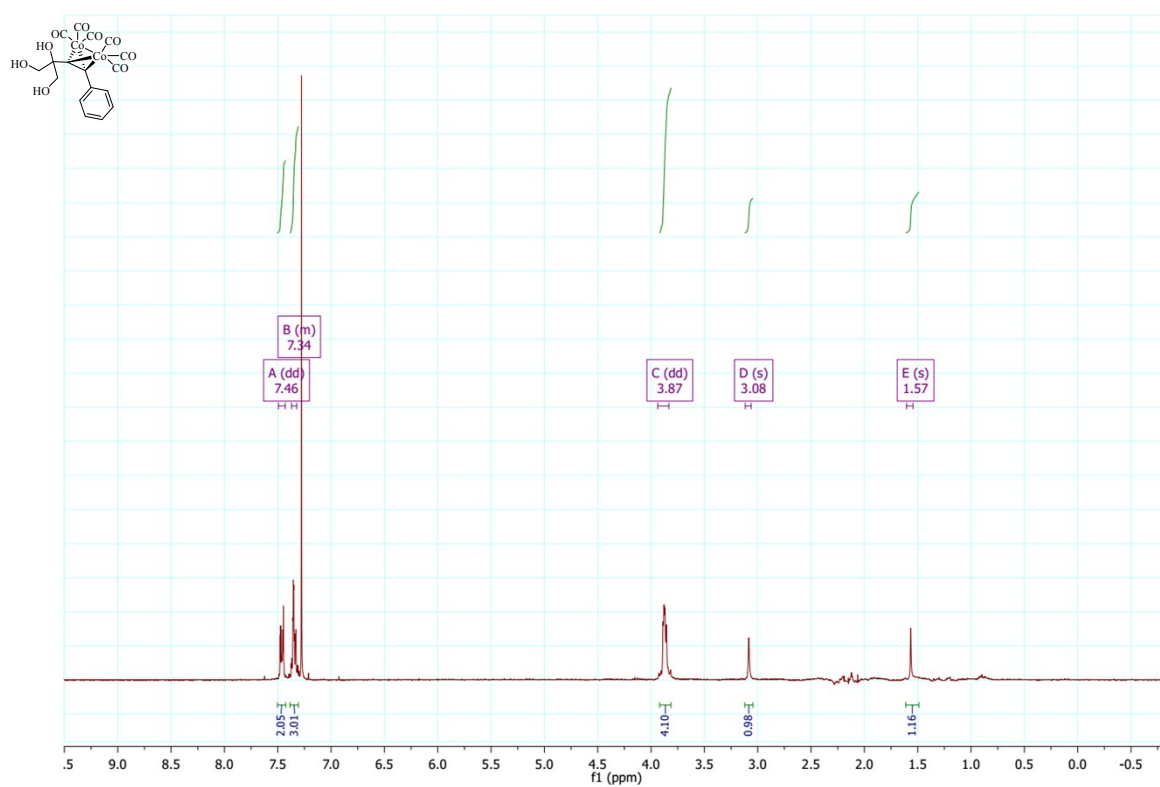
^1H NMR of Cobalt- complexed alcohol (**4k**) in CDCl_3 :



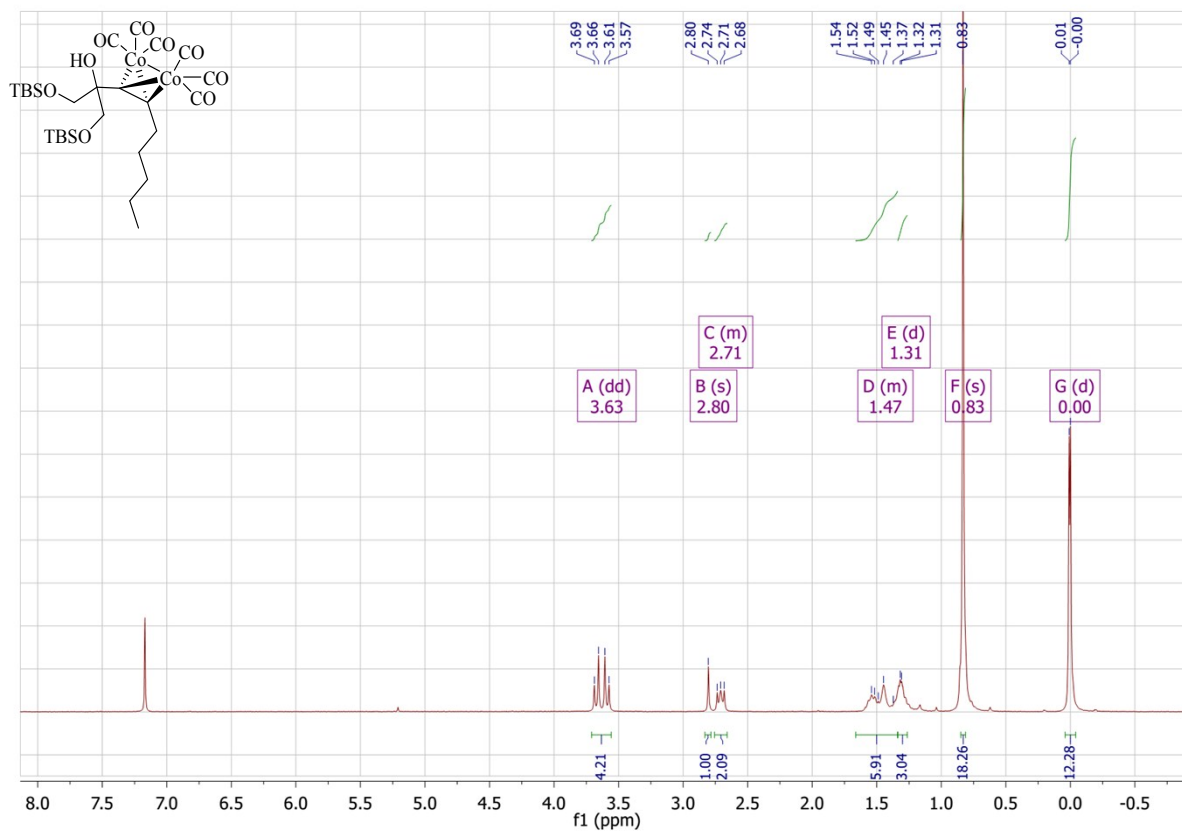
^1H NMR of Cobalt- complexed alcohol (**4l**) in CDCl_3 :



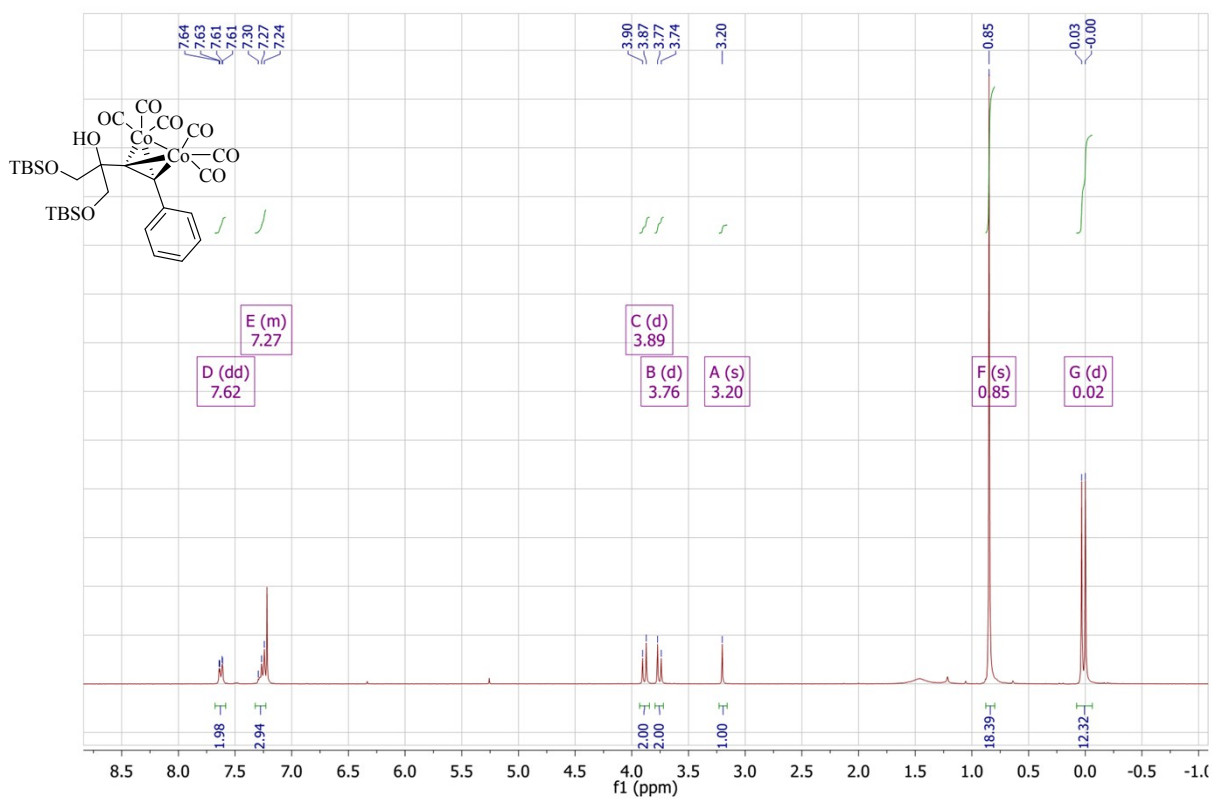
^1H NMR of Cobalt- complexed alcohol (**4m**) in CDCl_3 :



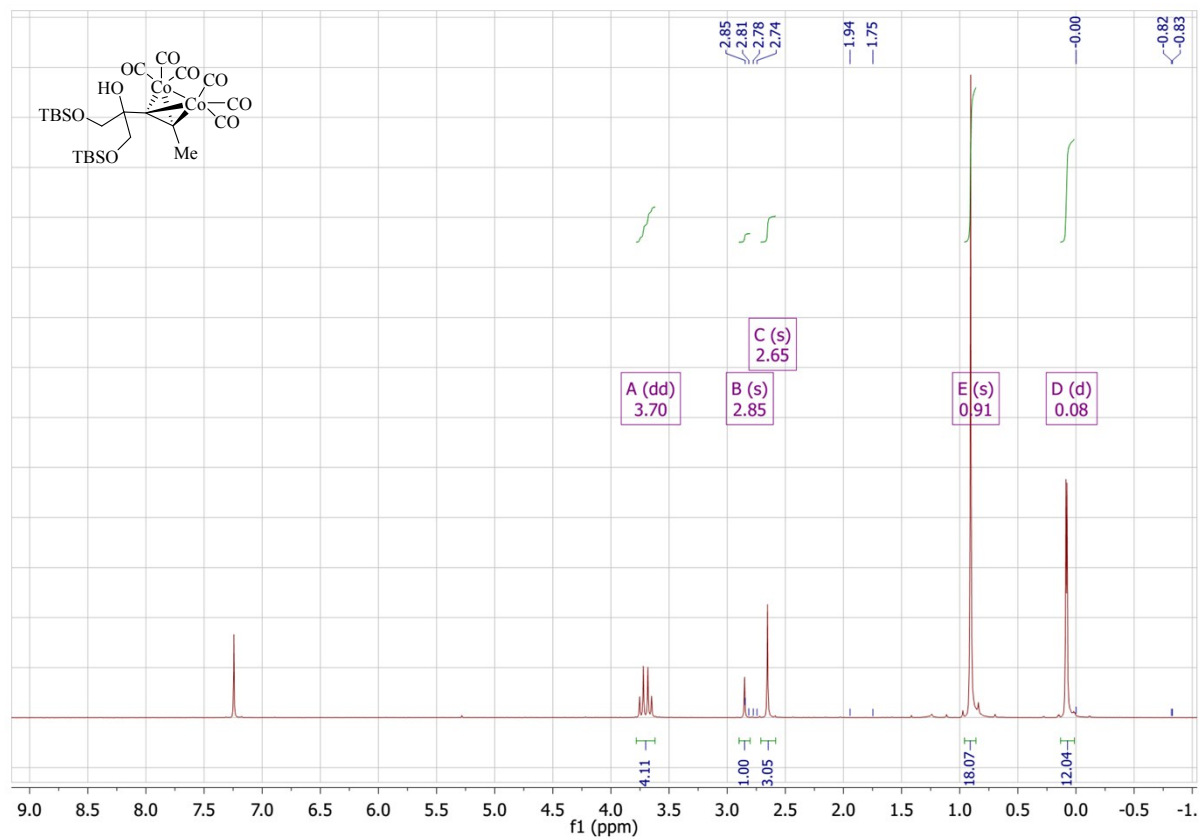
^1H NMR of Cobalt- complexed alcohol (**9a**) in CDCl_3 :



^1H NMR of Cobalt- complexed alcohol(**9b**) in CDCl_3 :

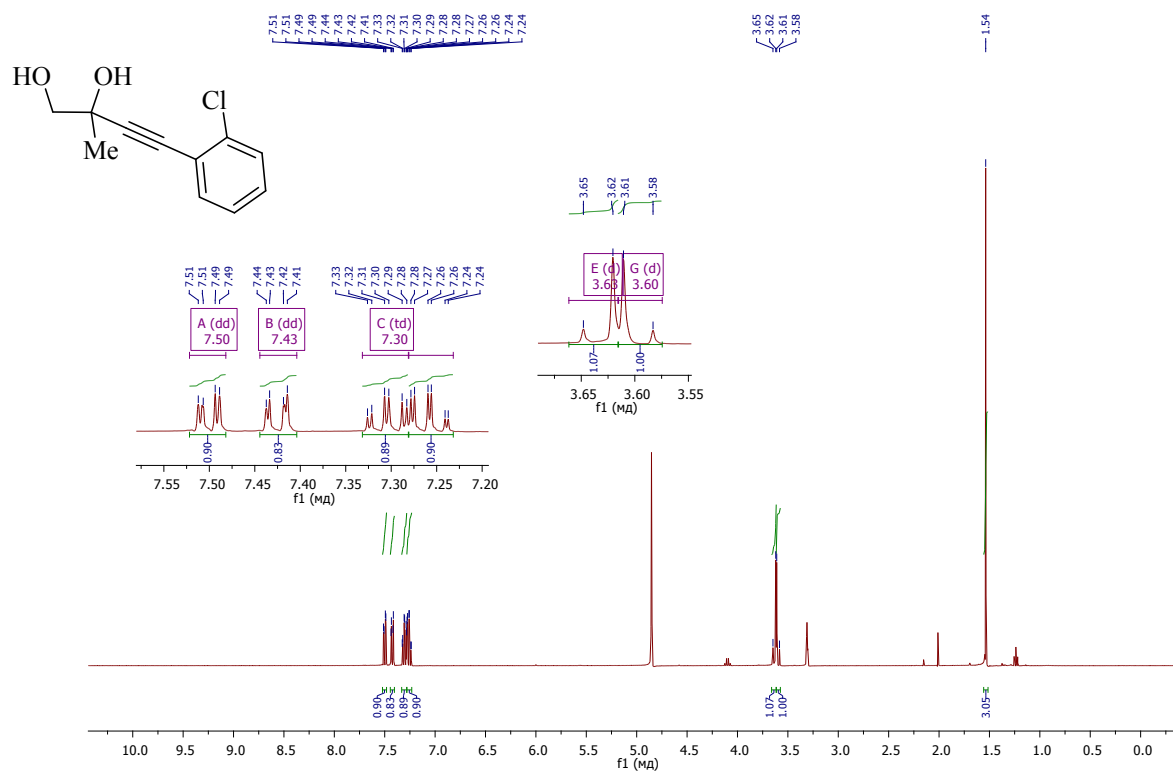


^1H NMR of Cobalt- complexed alcohol (**9c**) in CDCl_3 :

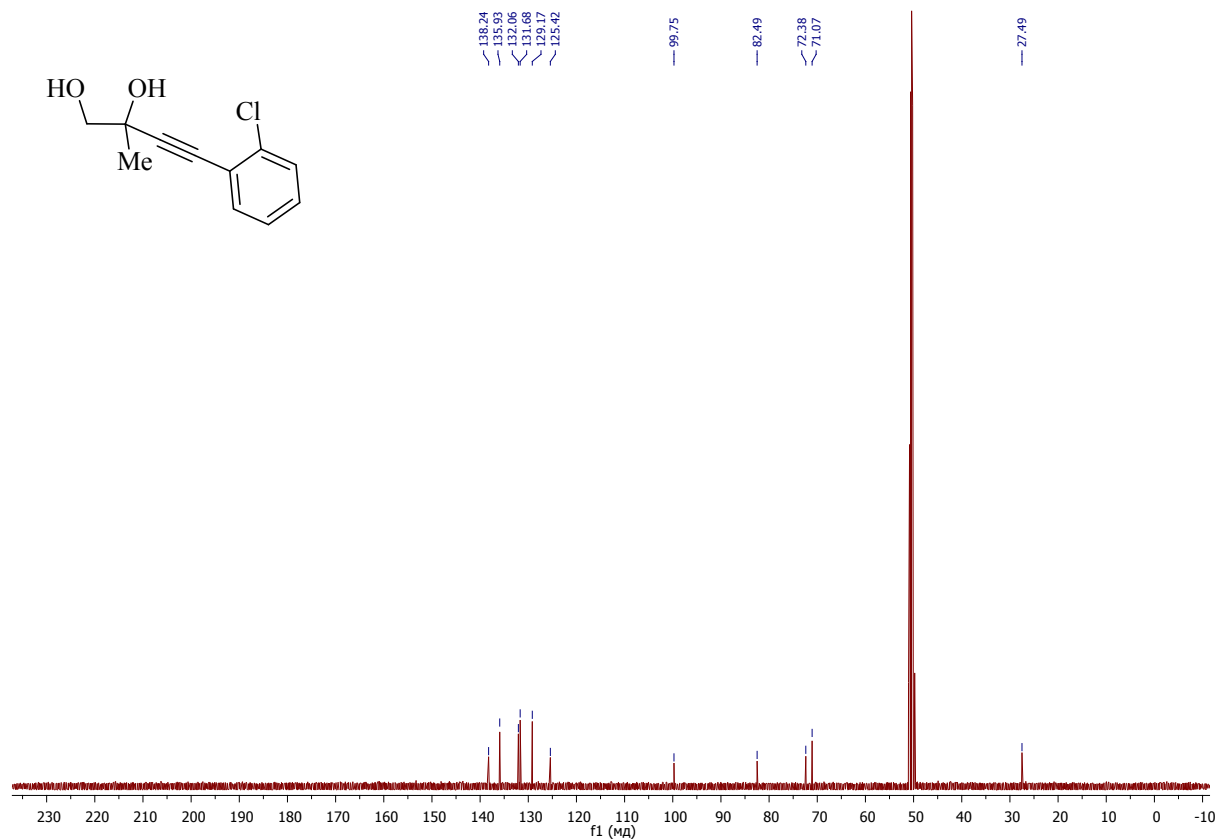


4. NMR spectra of alcohols **3** and **8**

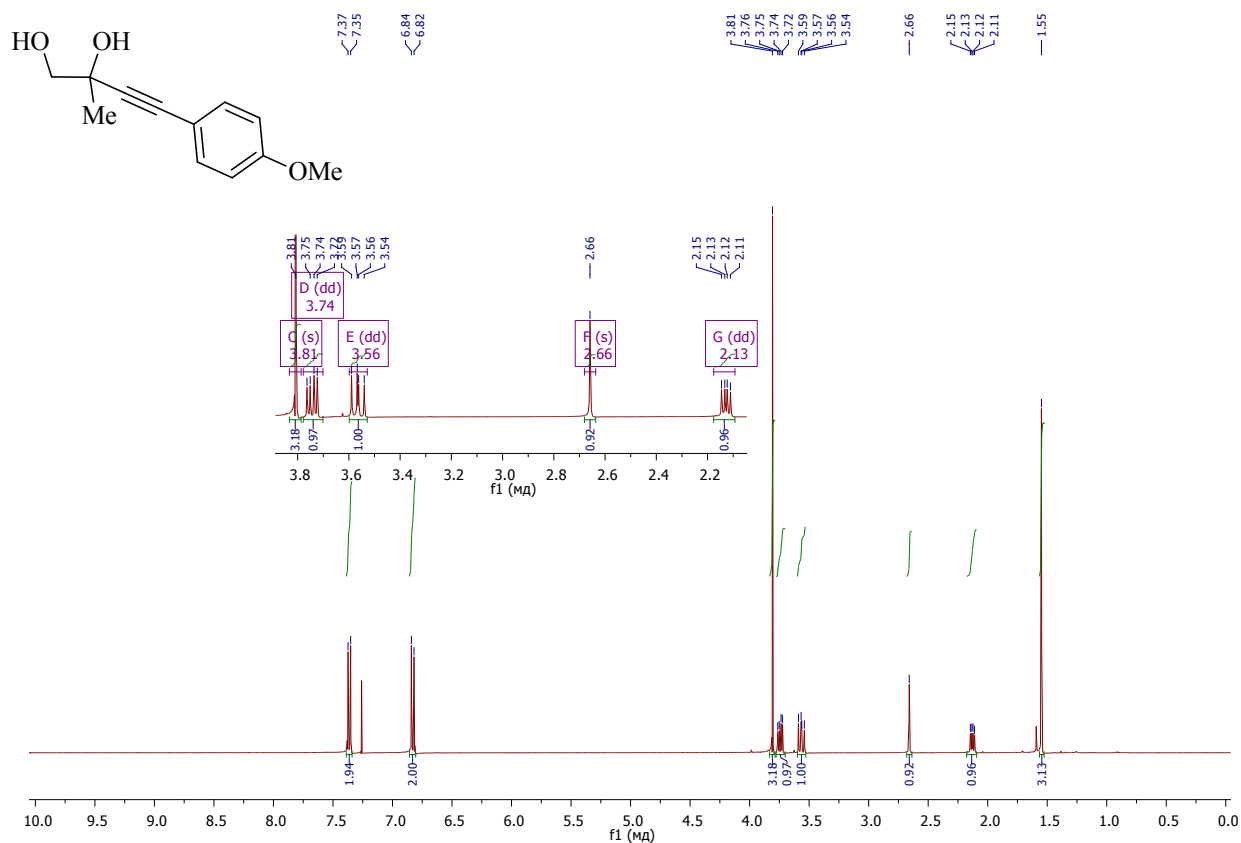
^1H NMR of 4-(2-chlorophenyl)-2-methylbut-3-yne-1,2-diol (**3e**) in CD_3OD :



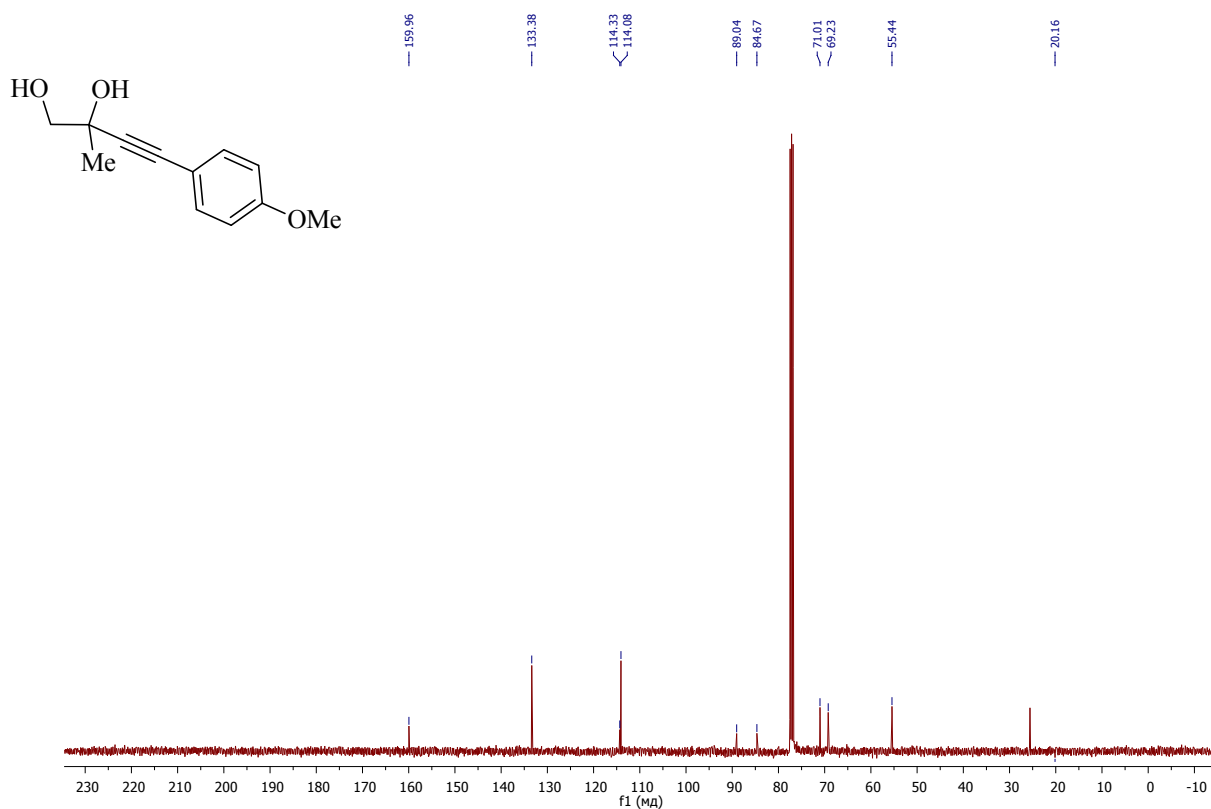
^{13}C NMR of 4-(2-chlorophenyl)-2-methylbut-3-yne-1,2-diol (**3e**) in CD_3OD :



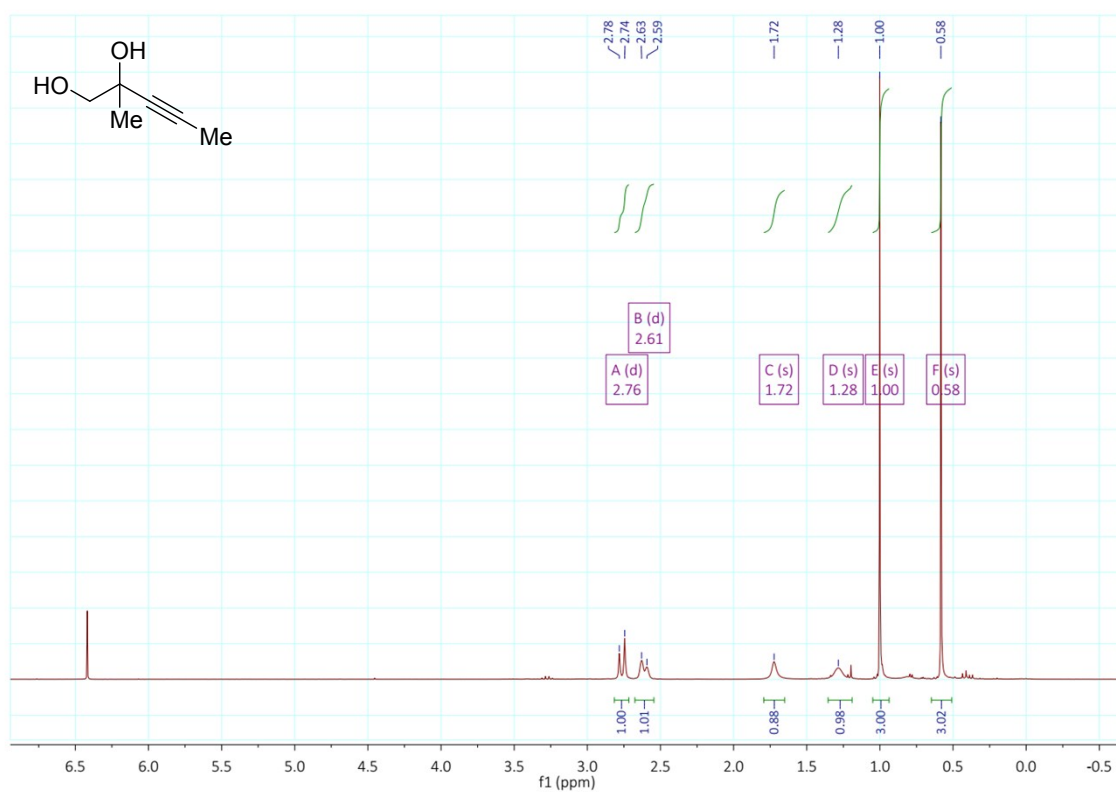
^1H NMR of 4-(4-methoxyphenyl)-2-methylbut-3-yne-1,2-diol (**3f**) in CDCl_3 :



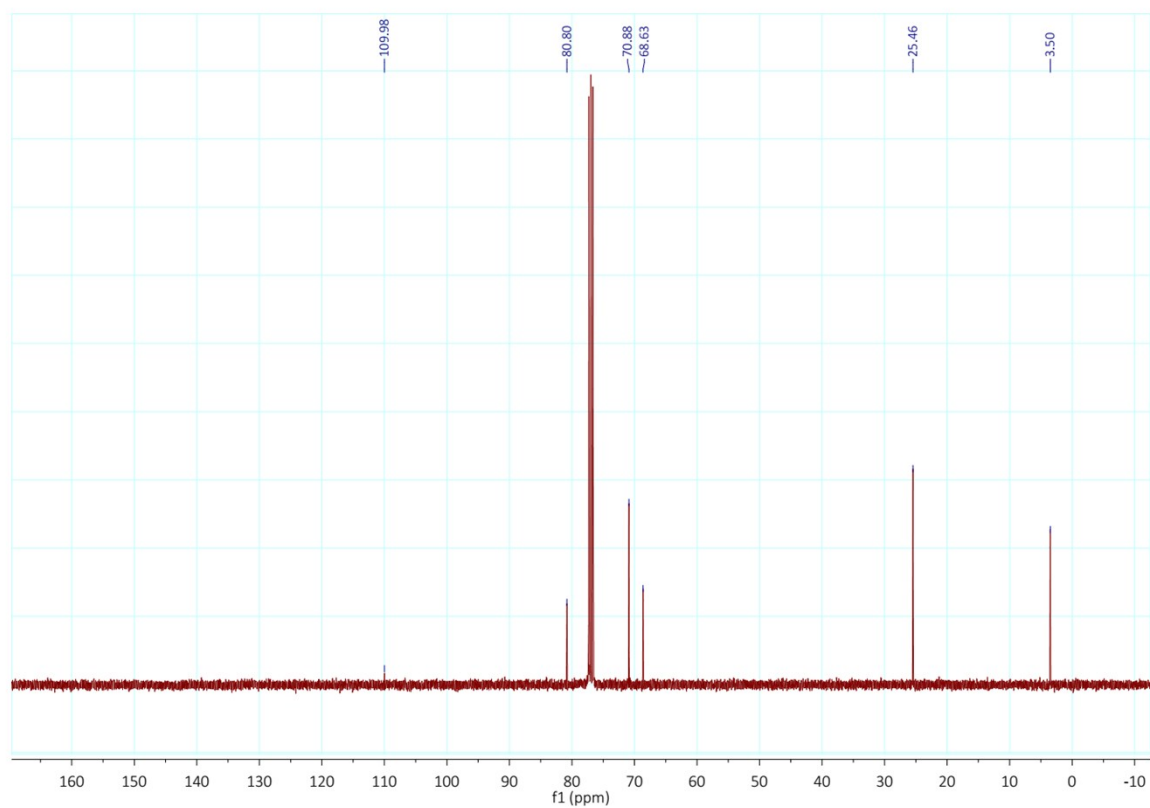
^{13}C NMR of 4-(4-methoxyphenyl)-2-methylbut-3-yne-1,2-diol (**3f**) in CDCl_3 :



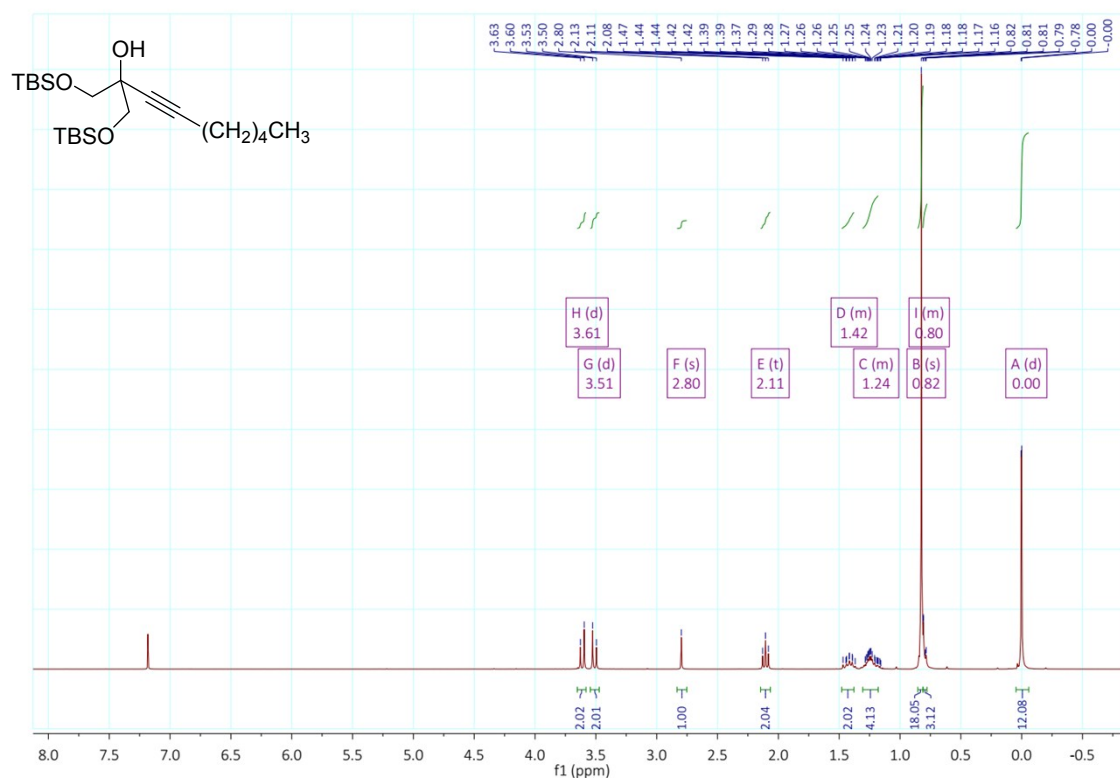
¹H NMR of 2-methylpent-3-yne-1,2-diol (3h) in CDCl₃:



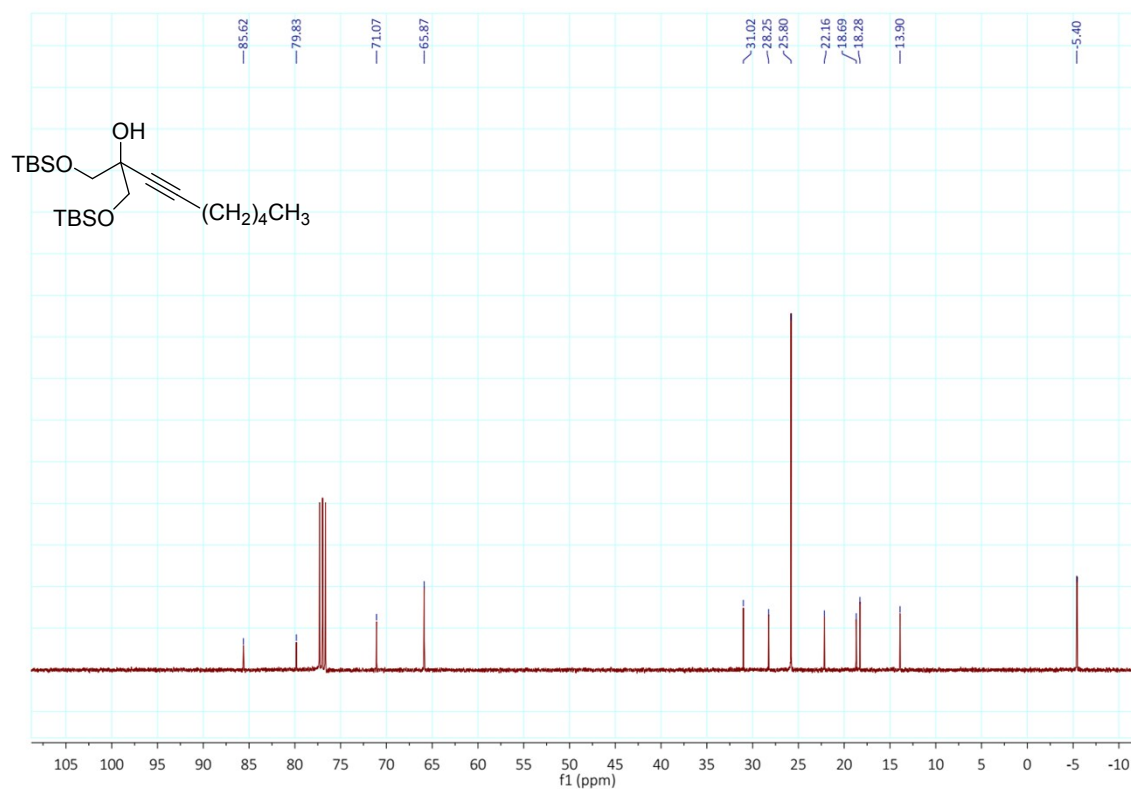
¹³C NMR of 2-methylpent-3-yne-1,2-diol (3h) in CDCl₃:



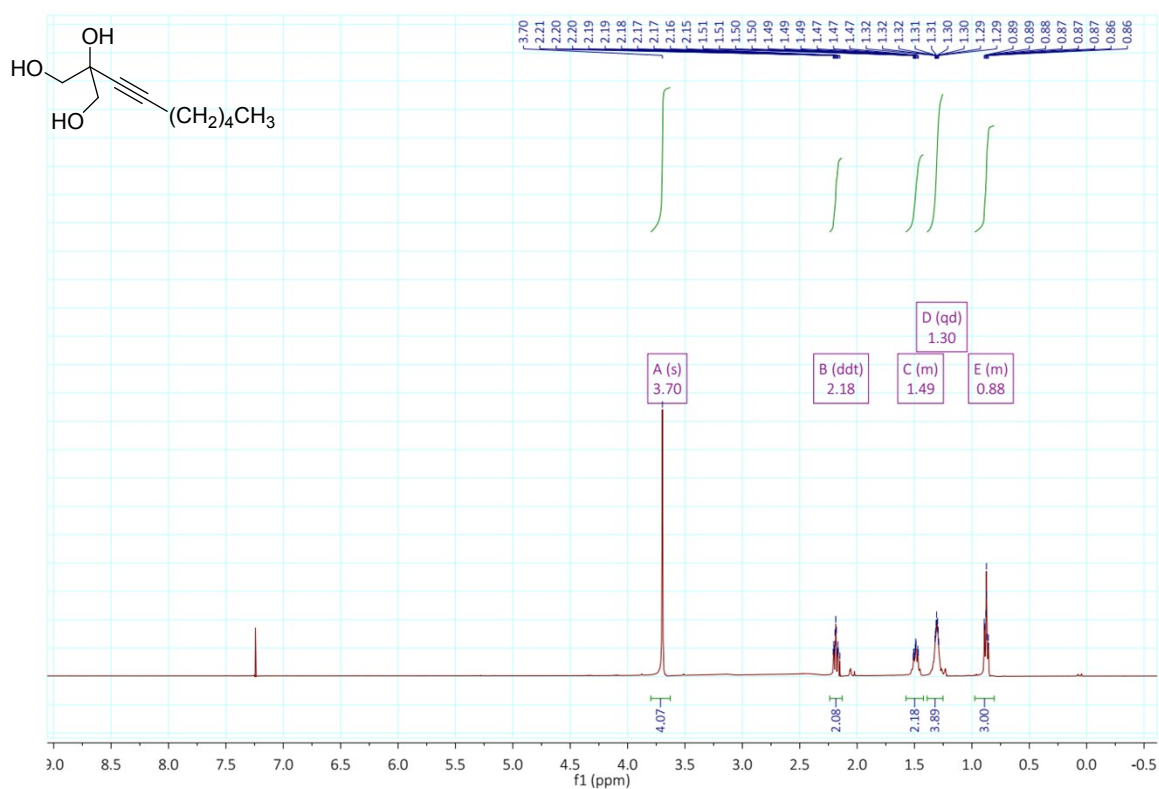
¹H NMR of 6-(hept-1-yn-1-yl)-2,2,3,3,9,9,10,10-octamethyl-4,8-dioxa-3,9-disilaundecan-6-ol (8b) in CDCl₃:



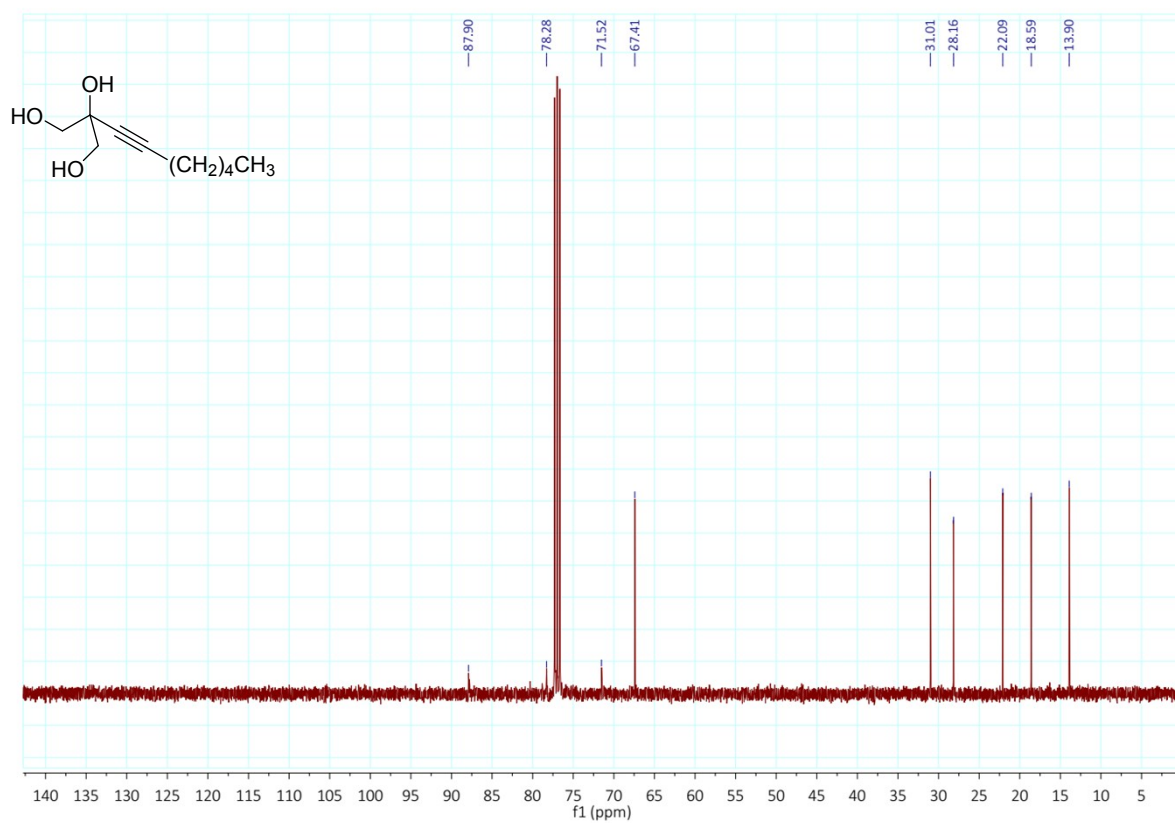
¹³C NMR of 6-(hept-1-yn-1-yl)-2,2,3,3,9,9,10,10-octamethyl-4,8-dioxa-3,9-disilaundecan-6-ol (8b) in CDCl₃:



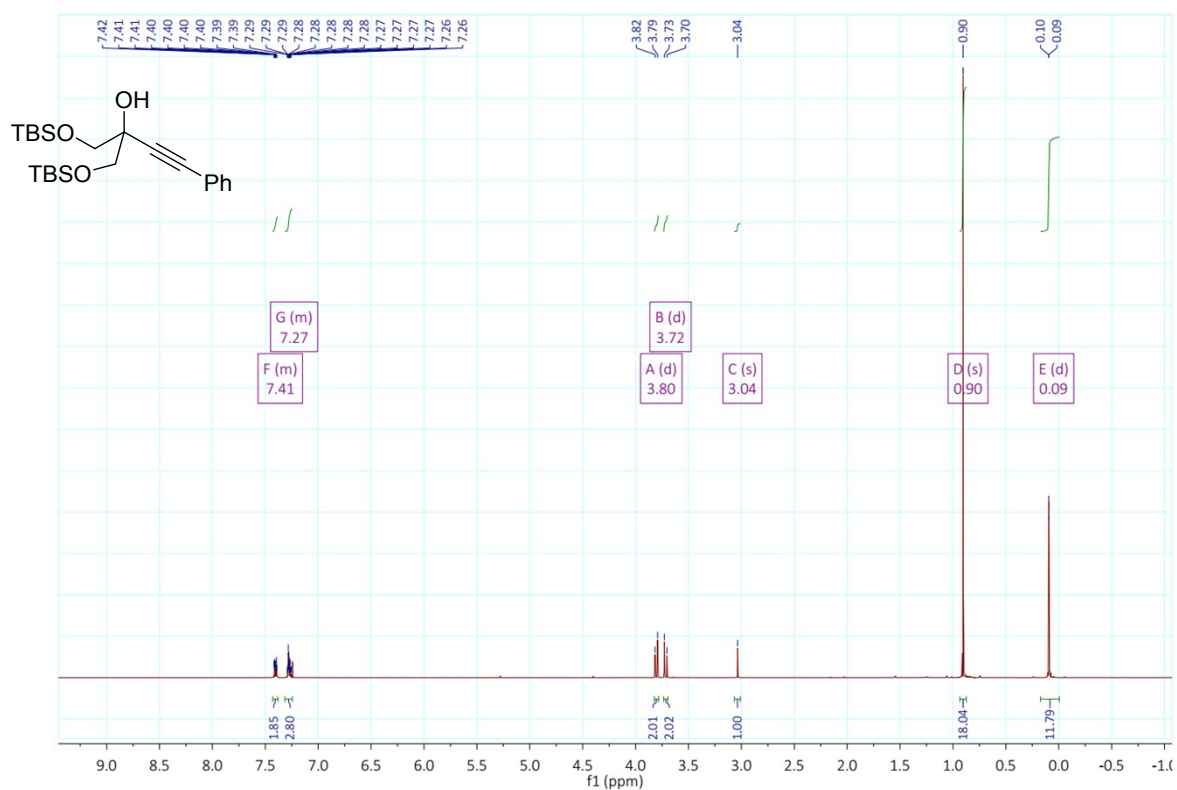
¹H NMR of 2-(hept-1-yn-1-yl)propane-1,2,3-triol (3k) in CDCl₃:



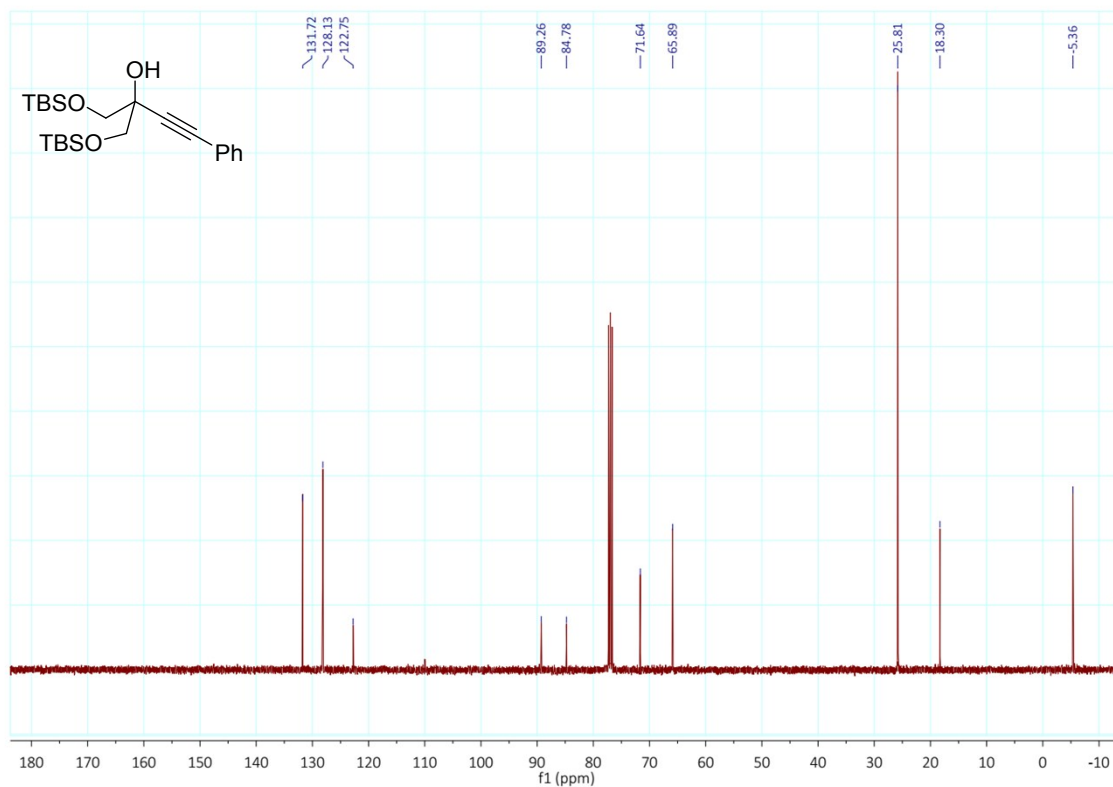
¹³C NMR of 2-(hept-1-yn-1-yl)propane-1,2,3-triol (3k) in CDCl₃:



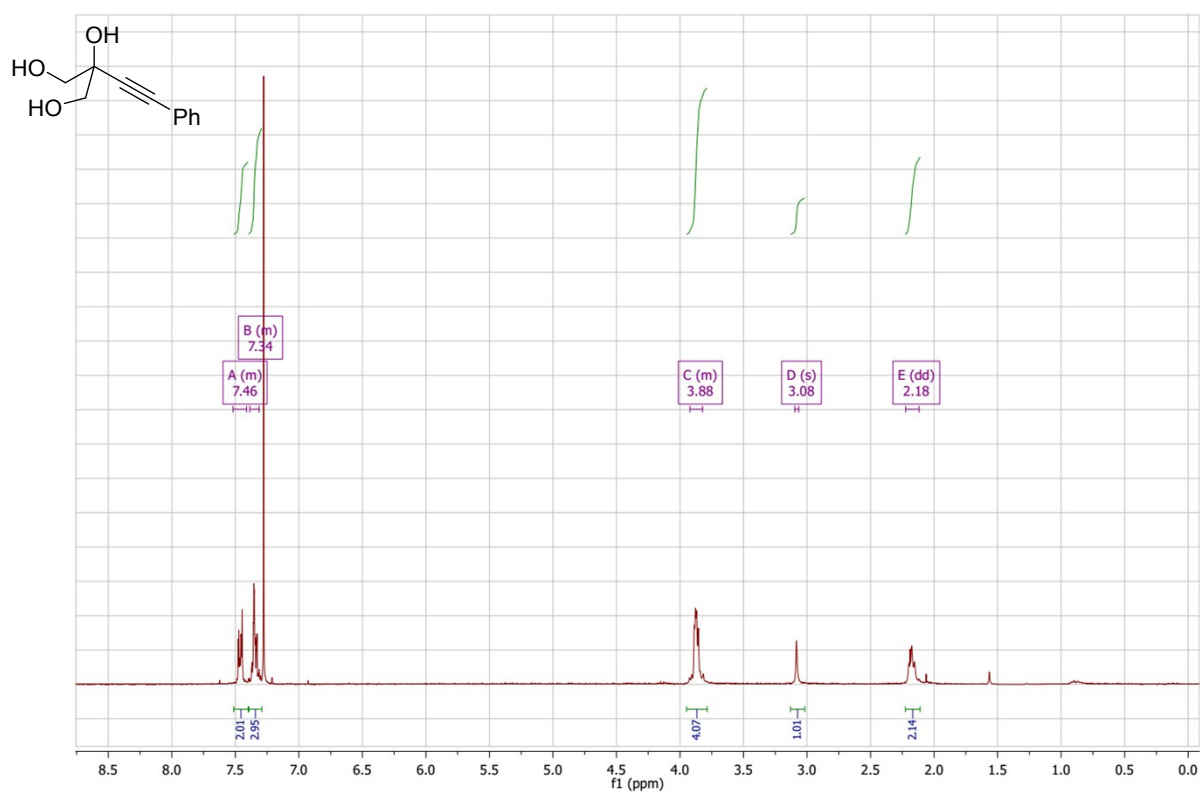
¹H NMR of 2,2,3,3,9,9,10,10-octamethyl-6-(phenylethynyl)-4,8-dioxa-3,9-disilaundecan-6-ol (8c) in CDCl₃:



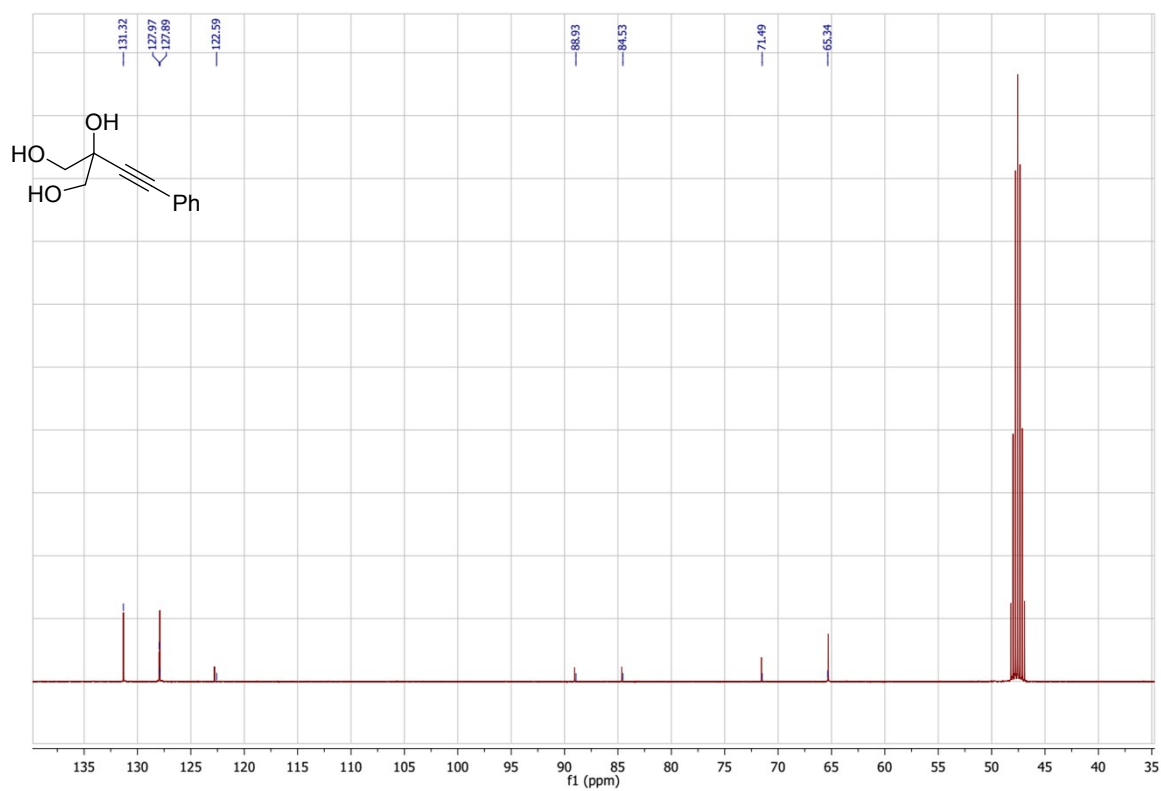
¹³C NMR of 2,2,3,3,9,9,10,10-octamethyl-6-(phenylethynyl)-4,8-dioxa-3,9-disilaundecan-6-ol (8c) in CDCl₃:



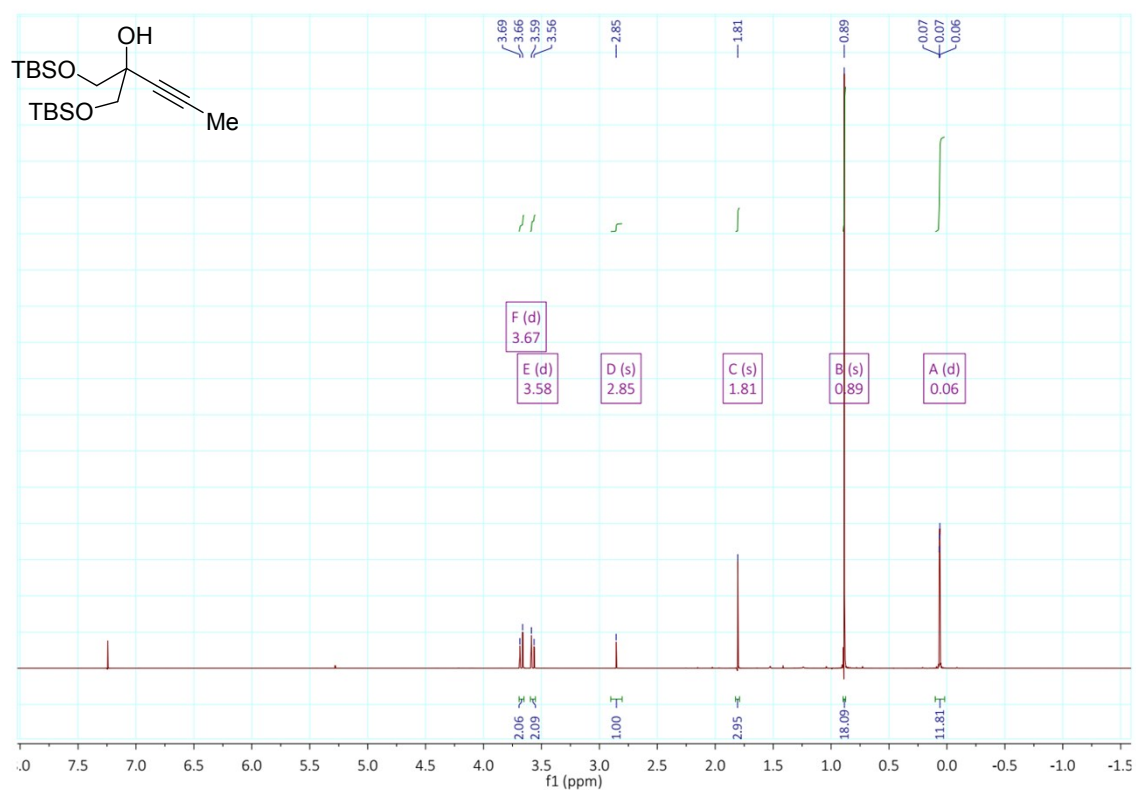
¹H NMR of 2-(phenylethynyl)propane-1,2,3-triol (3I) in CDCl₃:



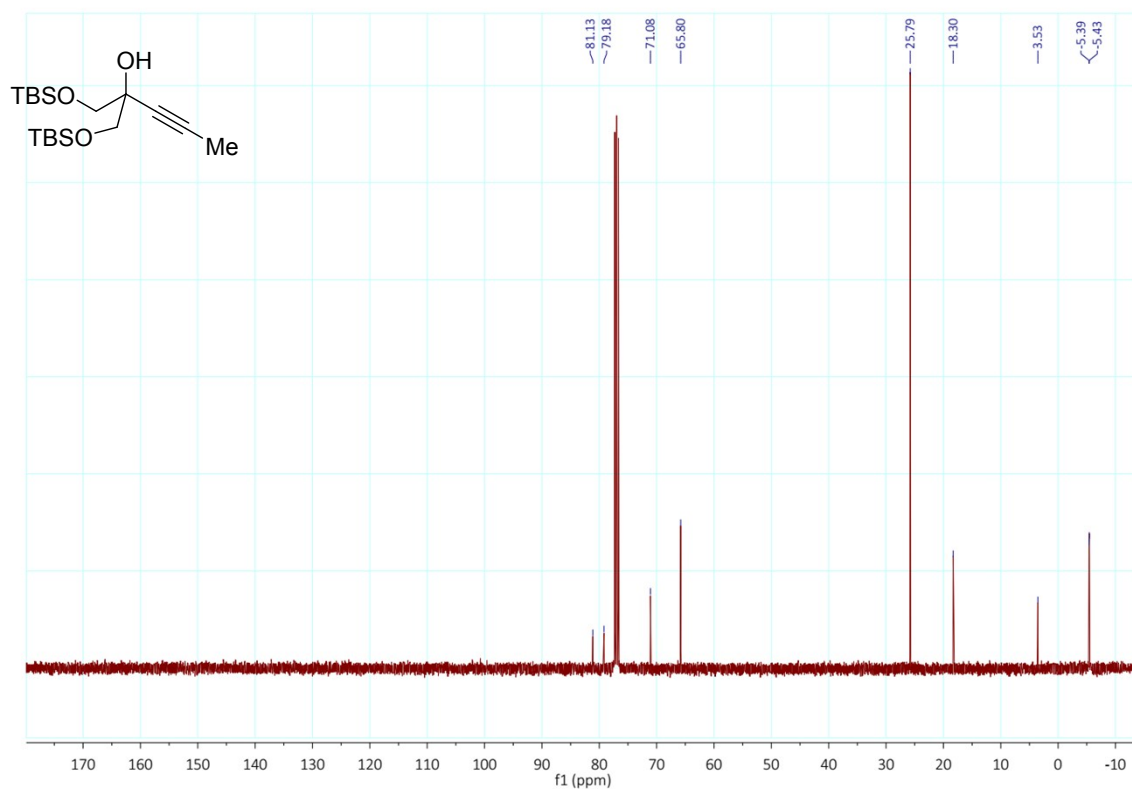
¹³C NMR of 2-(phenylethynyl)propane-1,2,3-triol (3I) in CDCl₃:



¹H NMR of 2,2,3,3,9,9,10,10-octamethyl-6-(prop-1-yn-1-yl)-4,8-dioxa-3,9-disilaundecan-6-ol (8d) in CDCl₃:

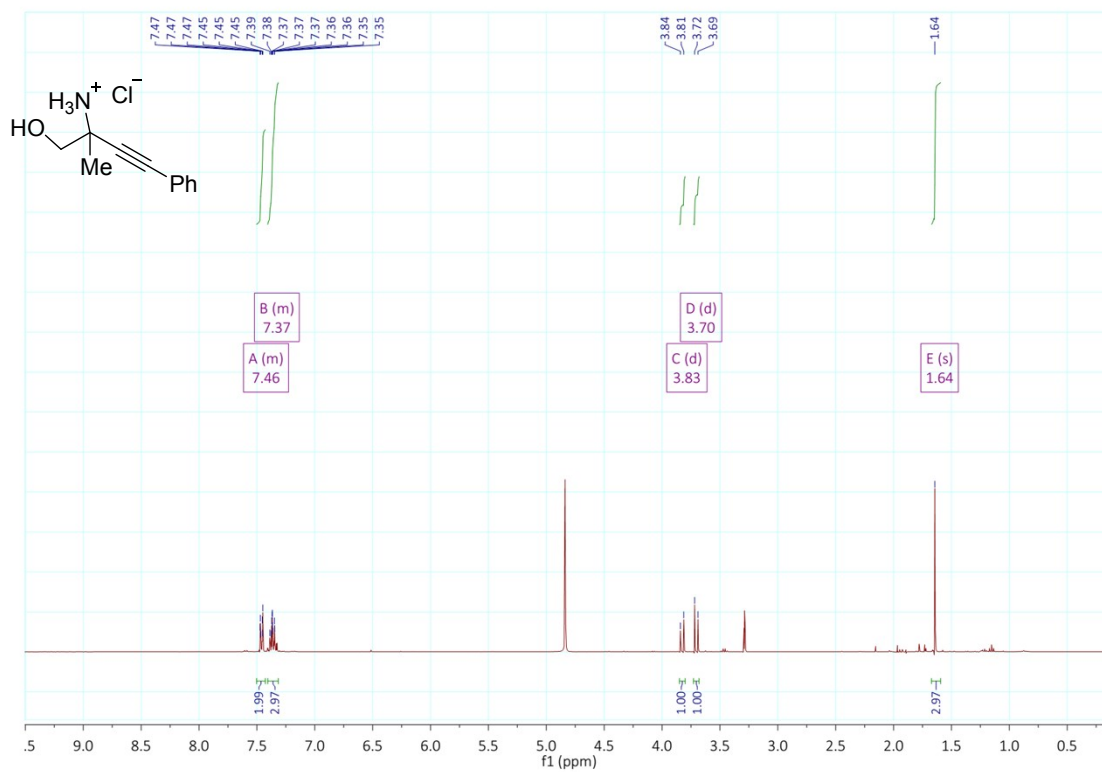


¹³C NMR of 2,2,3,3,9,9,10,10-octamethyl-6-(prop-1-yn-1-yl)-4,8-dioxa-3,9-disilaundecan-6-ol (8d) in CDCl₃:

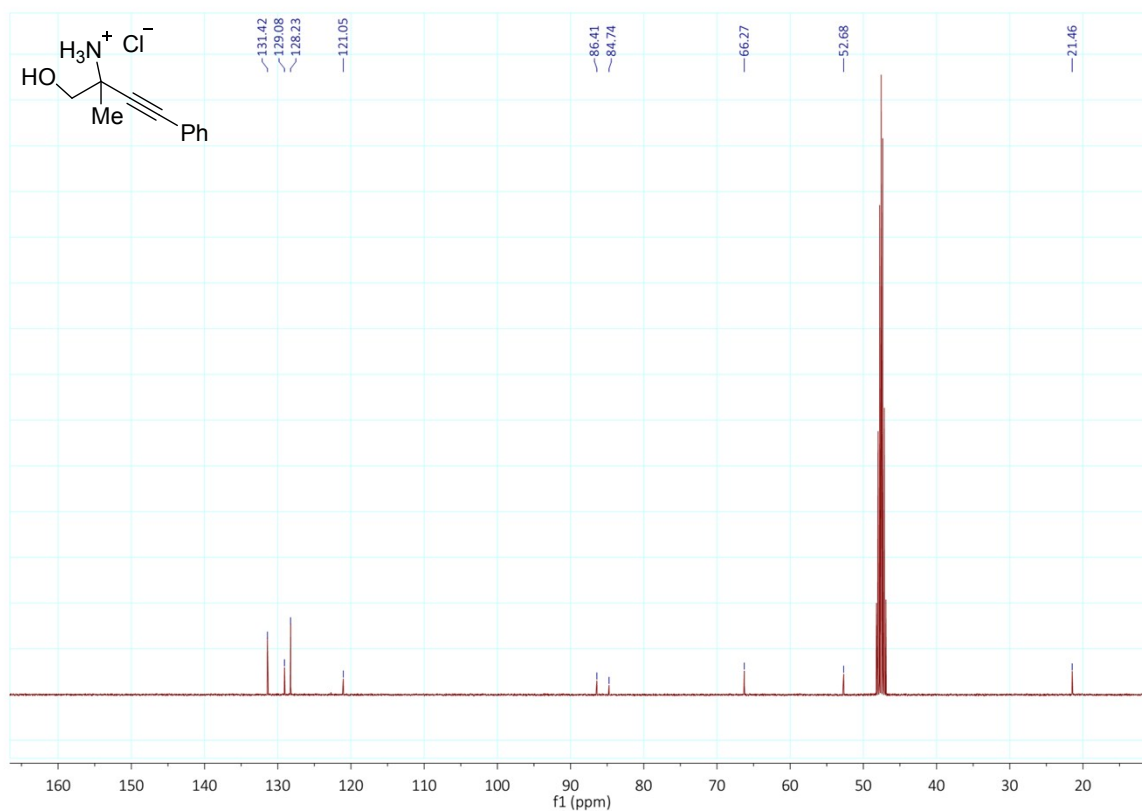


5. NMR spectra of alcohols amino-alcohols

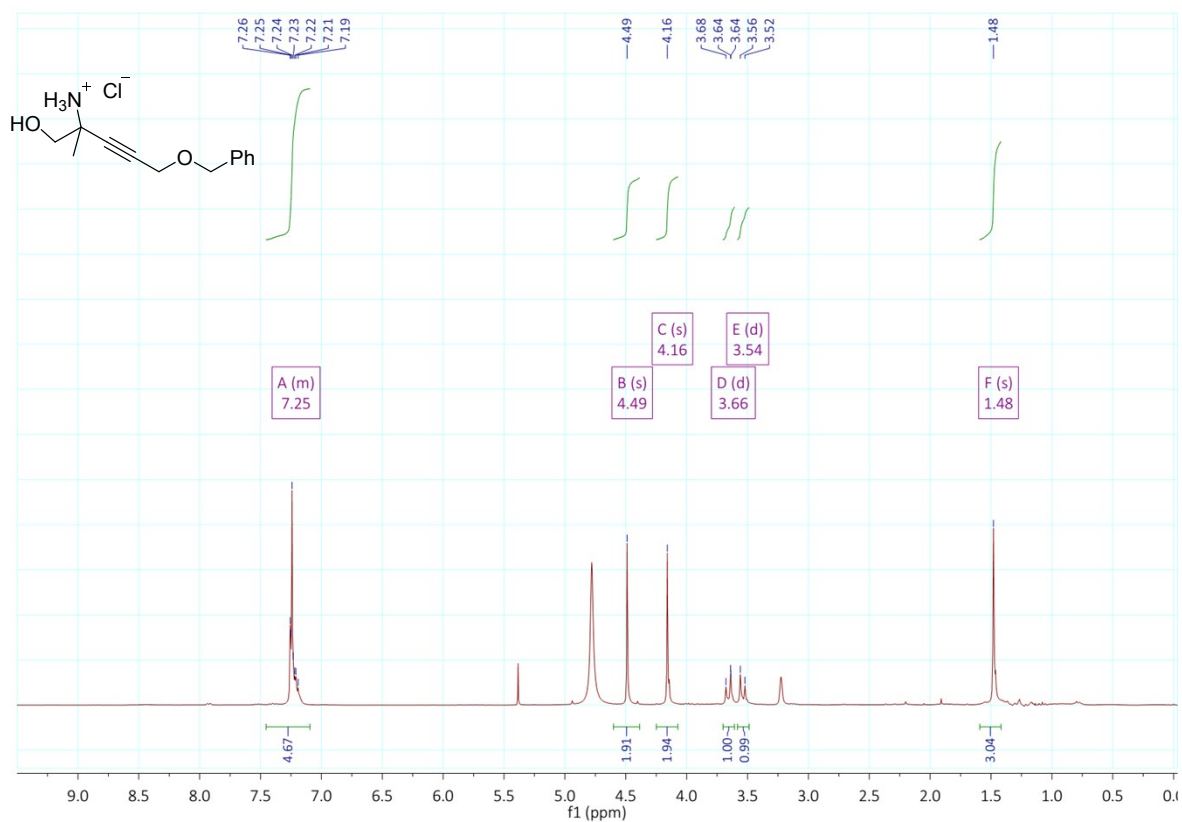
^1H NMR of 1-hydroxy-2-methyl-4-phenylbut-3-yn-2-aminium chloride (**1d**) in CD_3OD_3 :



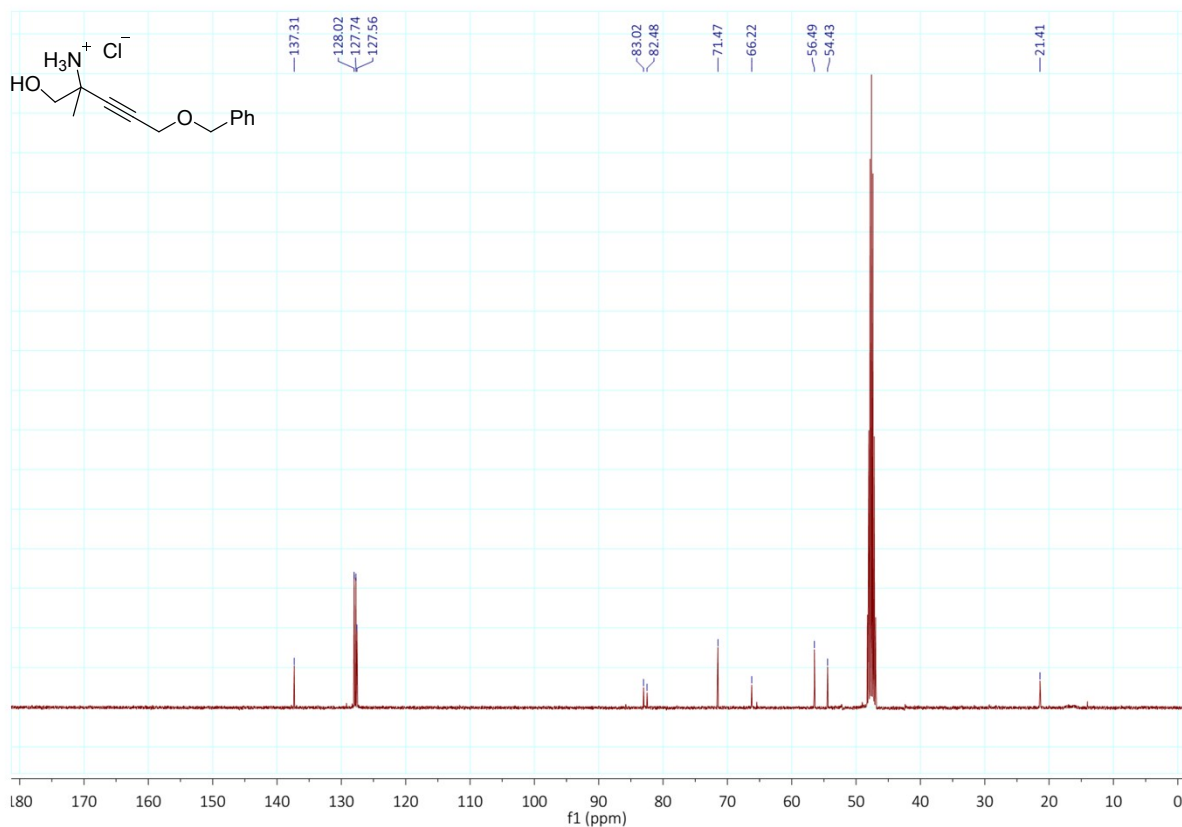
^{13}C NMR of 1-hydroxy-2-methyl-4-phenylbut-3-yn-2-aminium chloride (**1d**) in CD_3OD_3 :



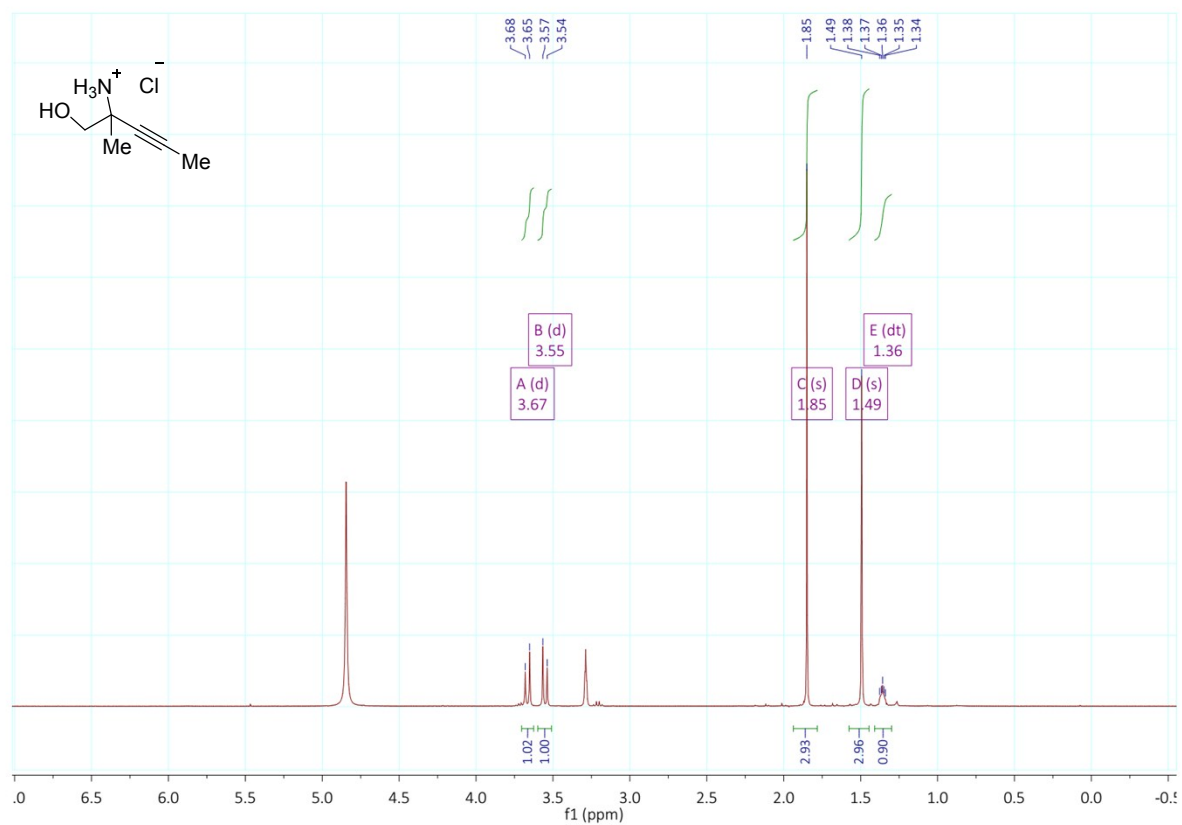
^1H NMR of 5-(benzyloxy)-1-hydroxy-2-methylpent-3-yn-2-aminium chloride (**1g**) in CD_3OD_3 :



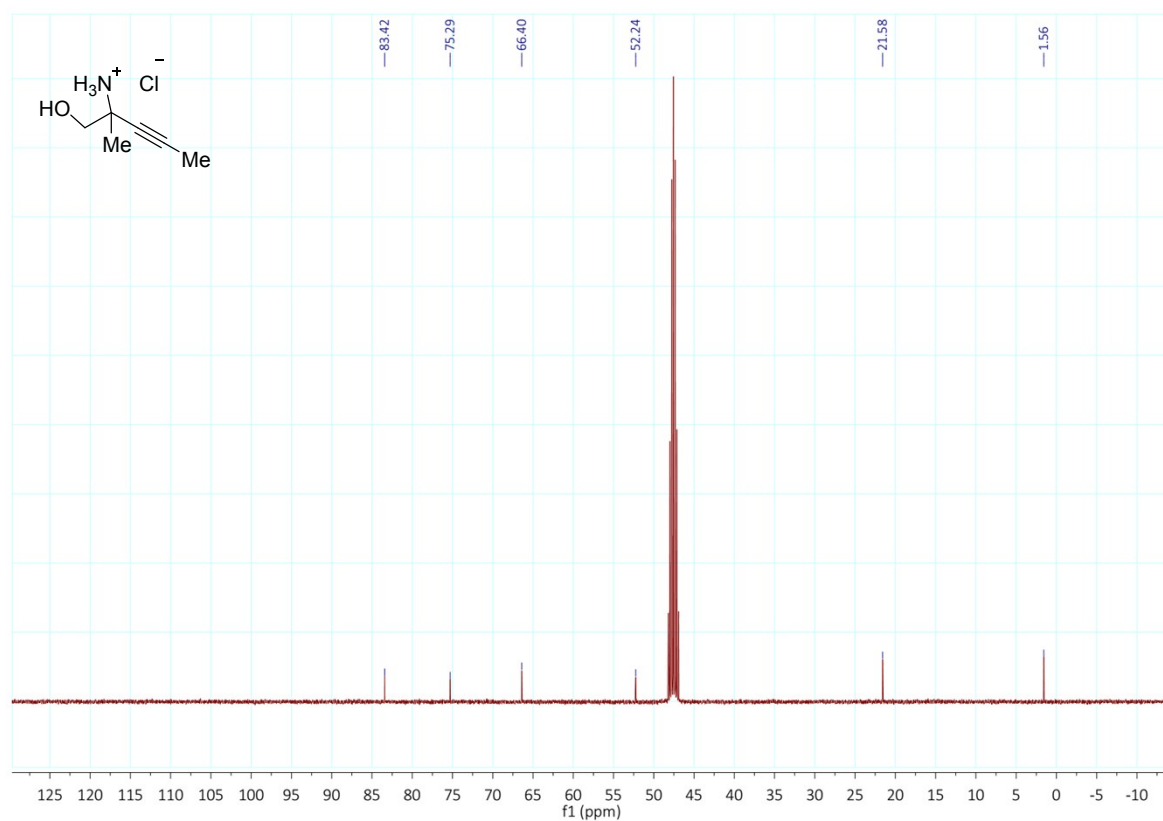
^{13}C NMR of 5-(benzyloxy)-1-hydroxy-2-methylpent-3-yn-2-aminium chloride (**1g**) in CD_3OD_3 :



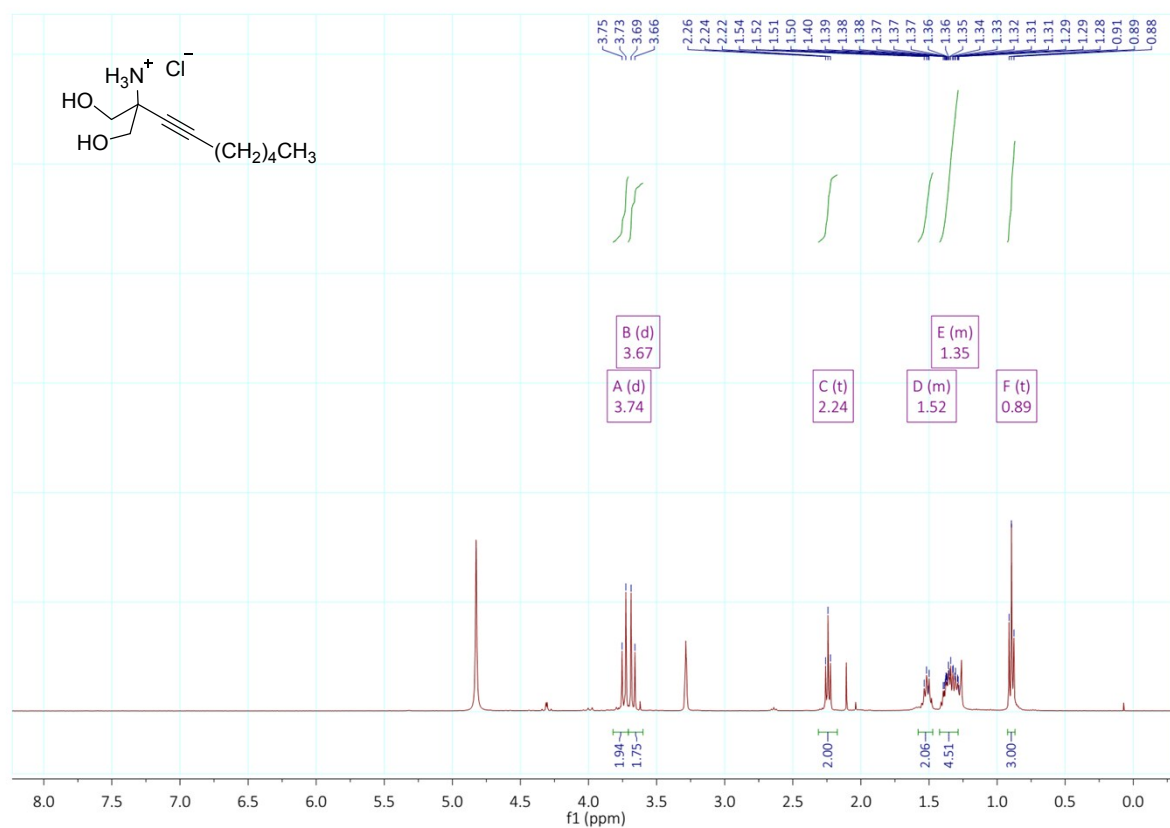
^1H NMR of 1-hydroxy-2-methylpent-3-yn-2-aminium chloride (**1h**) in CD_3OD_3 :



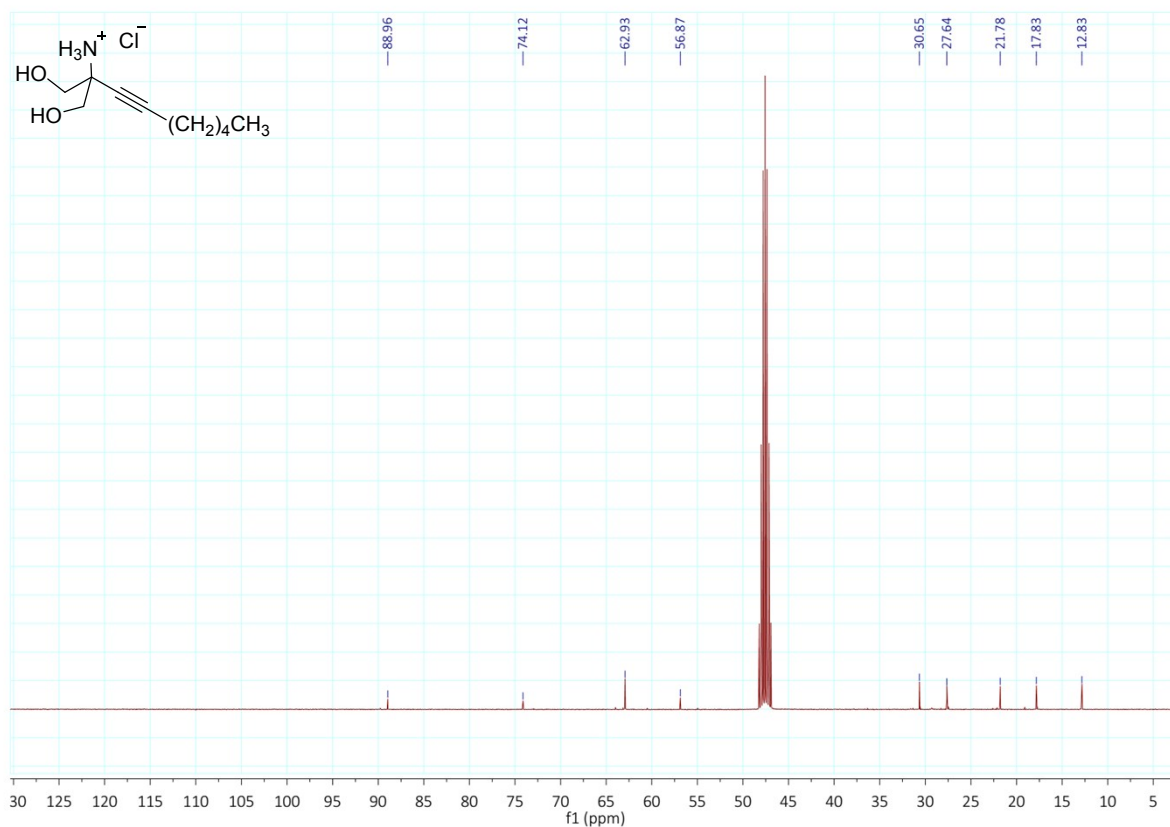
^{13}C NMR of 1-hydroxy-2-methylpent-3-yn-2-aminium chloride (**1h**) in CD_3OD_3 :



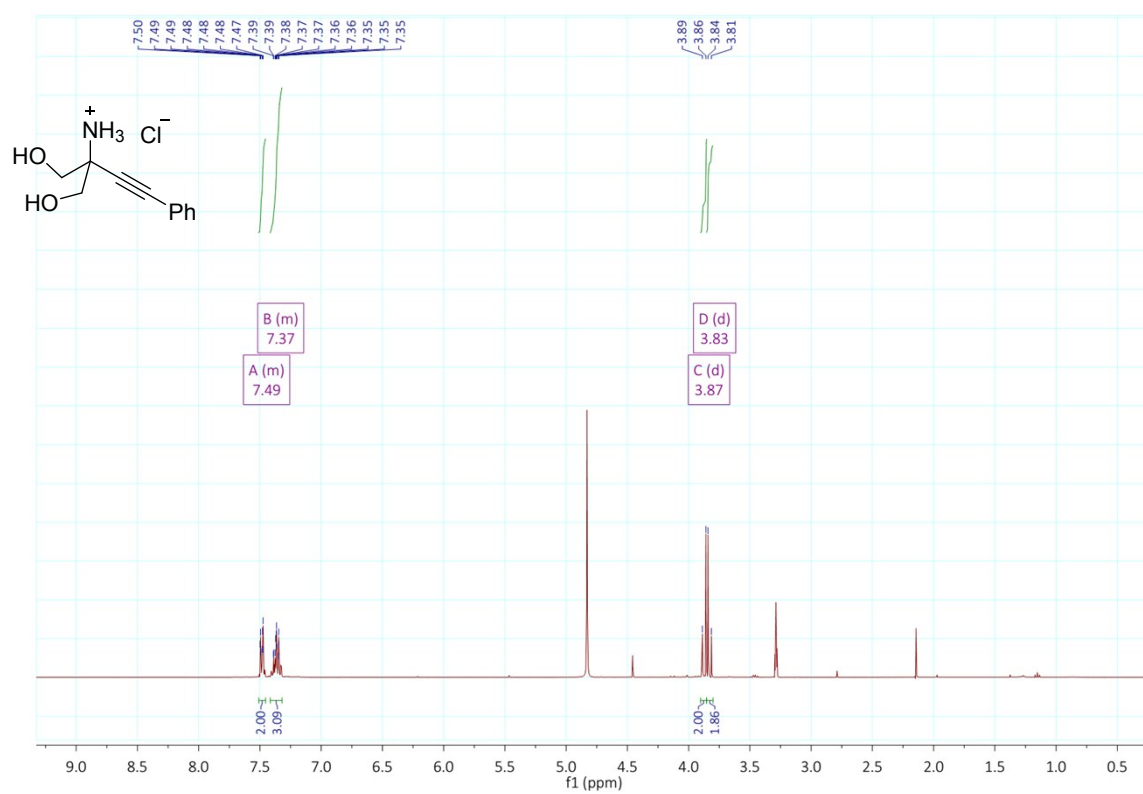
^1H NMR 1-hydroxy-2-(hydroxymethyl)non-3-yn-2-aminium chloride (**1**) in CD_3OD_3 :



^{13}C NMR of 1-hydroxy-2-(hydroxymethyl)non-3-yn-2-aminium chloride (**1**) in CD_3OD_3 :



^1H NMR 1-hydroxy-2-(hydroxymethyl)-4-phenylbut-3-yn-2-aminium chloride (**1m**) in CD_3OD_3 :



^{13}C NMR of 1-hydroxy-2-(hydroxymethyl)-4-phenylbut-3-yn-2-aminium chloride (**1m**) in CD_3OD_3 :

