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\(^{13}\)C NMR spectrum of compound 5a
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$^{1}H$ NMR spectrum of compound 5b
$^{13}$C NMR spectrum of compound 5b

MS spectrum of compound 5b
\textbf{H NMR spectrum of compound 5c}

\textbf{13C NMR spectrum of compound 5c}
MS spectrum of compound 5c

1H NMR spectrum of compound 5d
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1H NMR spectrum of compound 6
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$^{1}$H NMR spectrum of compound 7a
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MS spectrum of compound 7a
$^1$H NMR spectrum of compound 7b

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MS spectrum of compound 7b

$^1$H NMR spectrum of compound 7c
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MS spectrum of compound 7g
MS spectrum of compound 7h

1H NMR spectrum of compound 7i
$^{13}$C NMR spectrum of compound 7i

MS spectrum of compound 7i
$^{1}H$ NMR spectrum of compound 7j

$^{13}C$ NMR spectrum of compound 7j
MS spectrum of compound 7j

H NMR spectrum of compound 7k
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MS spectrum of compound 7k
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