

Supplementary Material

Synthesis of chiral *N*-trifluoroacetyl-methionine derivatives and applying them as acyl donors for Friedel-Crafts acylation

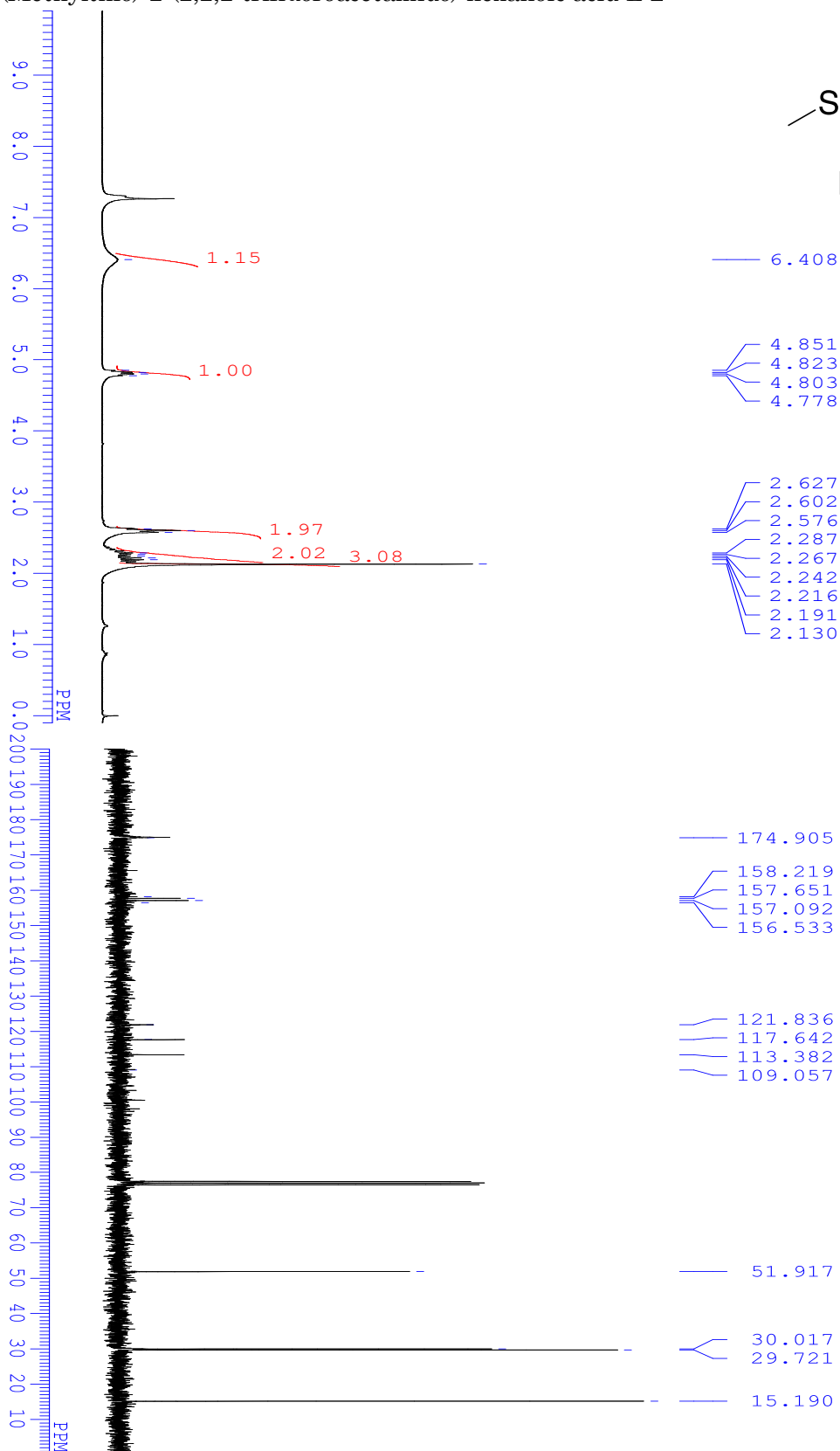
Natsumi Kurokawa, Yurika Tokoro, Zetryana Puteri Tachrim, Haruna Wakasa, Yasuko Sakihama, Yasuyuki Hashidoko, and Makoto Hashimoto*

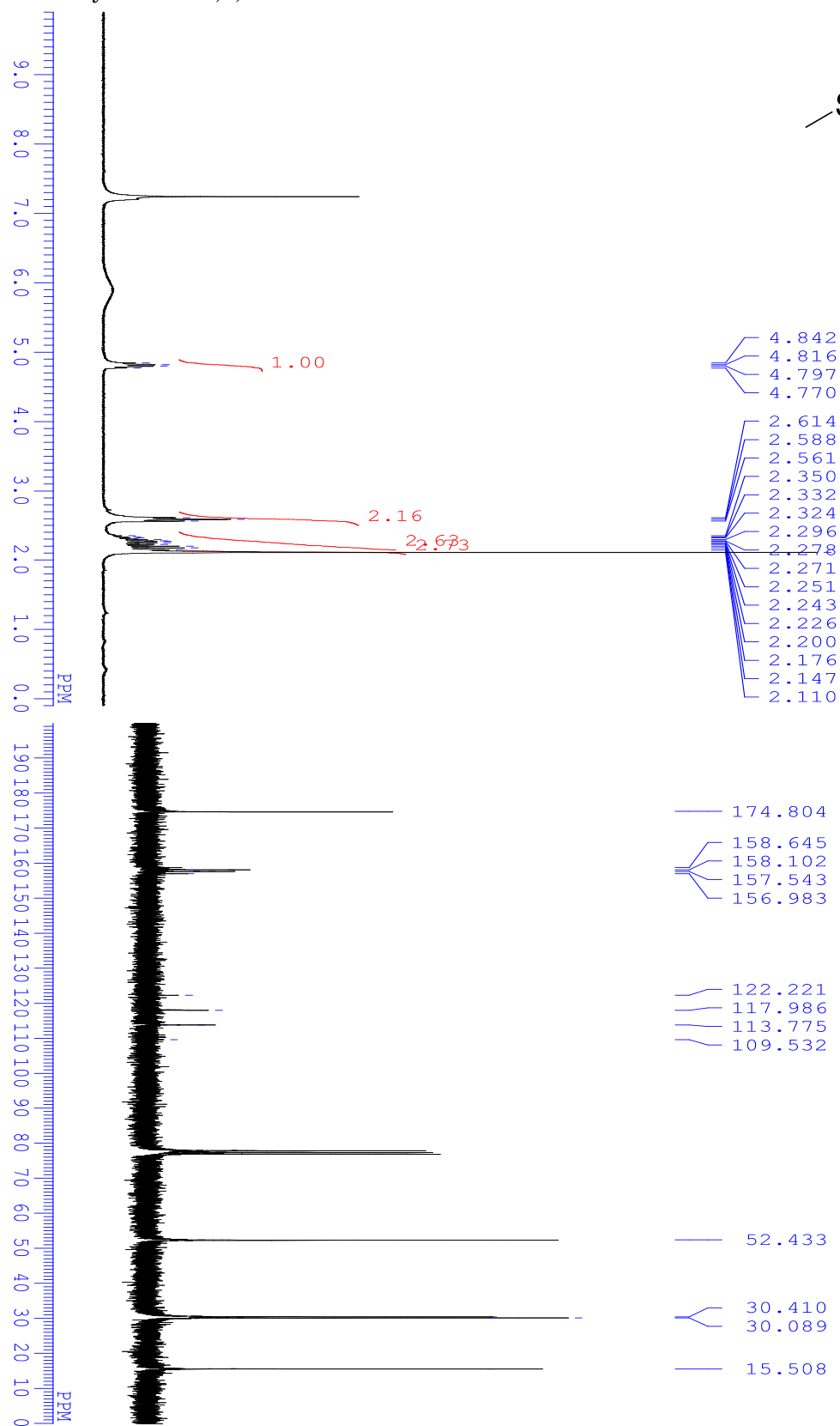
Division of Applied Science, Graduate School of Agriculture, Hokkaido University, Sapporo, Japan

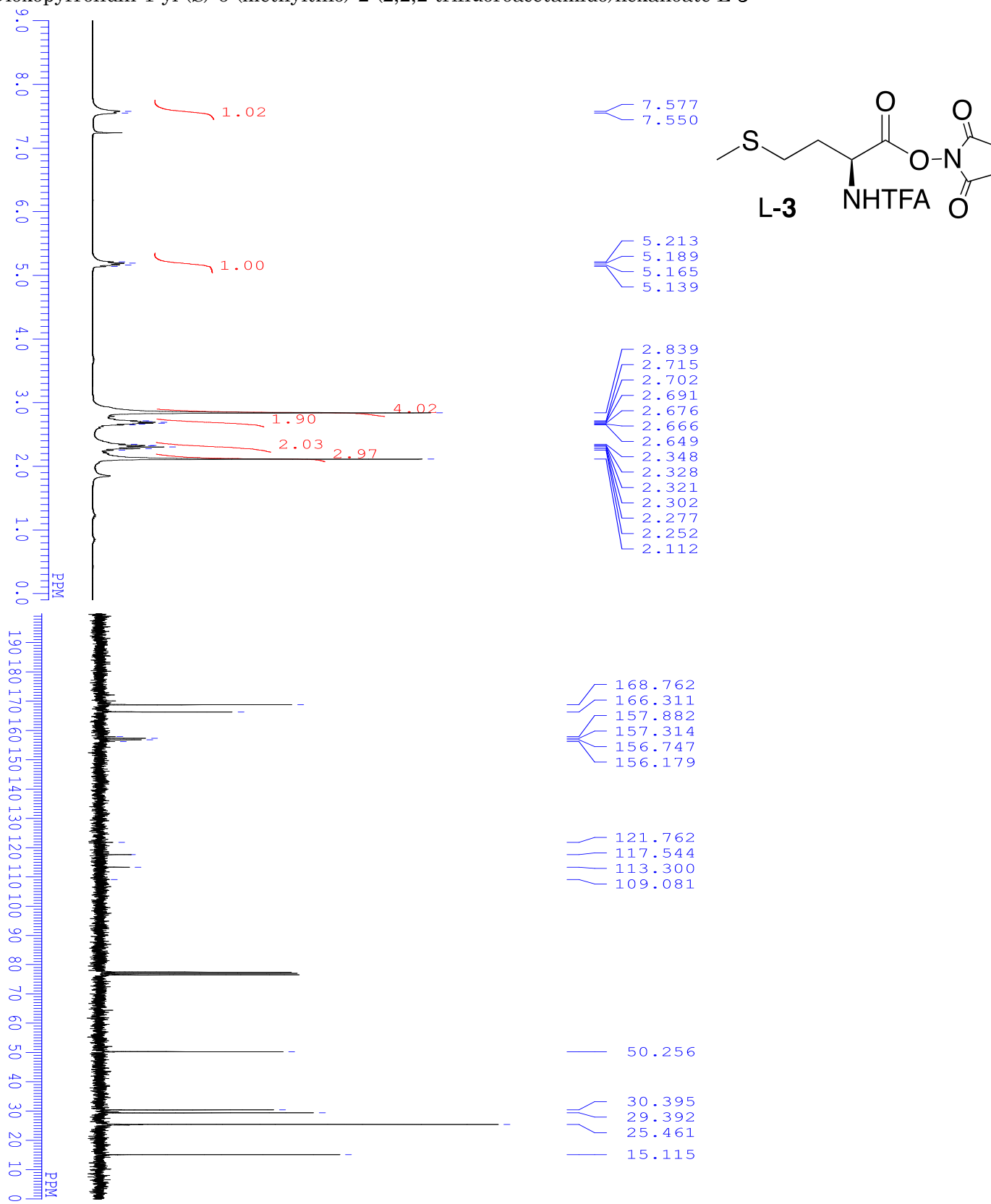
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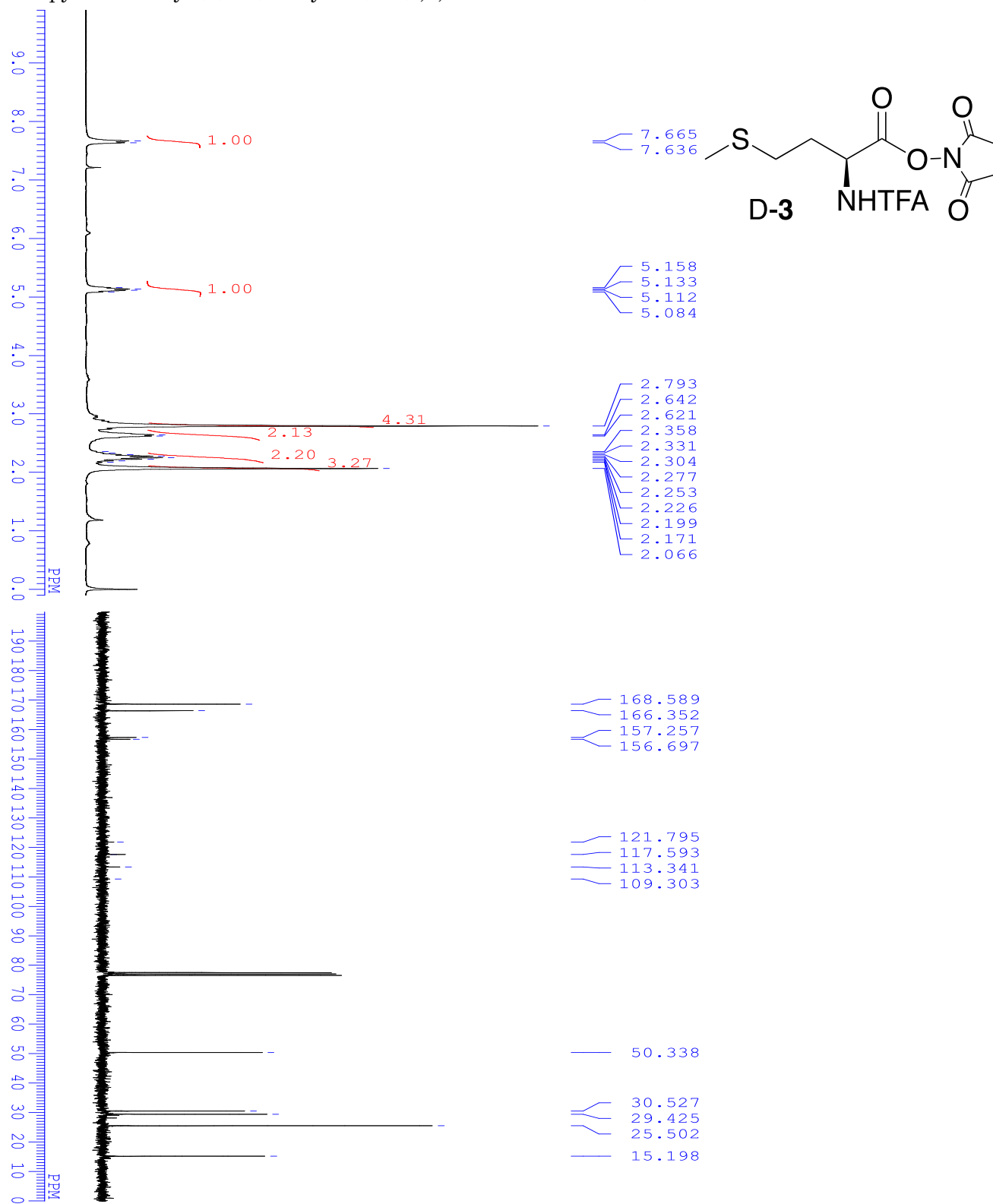
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| 1. ^1H and ^{13}C NMR figures for all synthetic compounds | S2 |
|---|----|

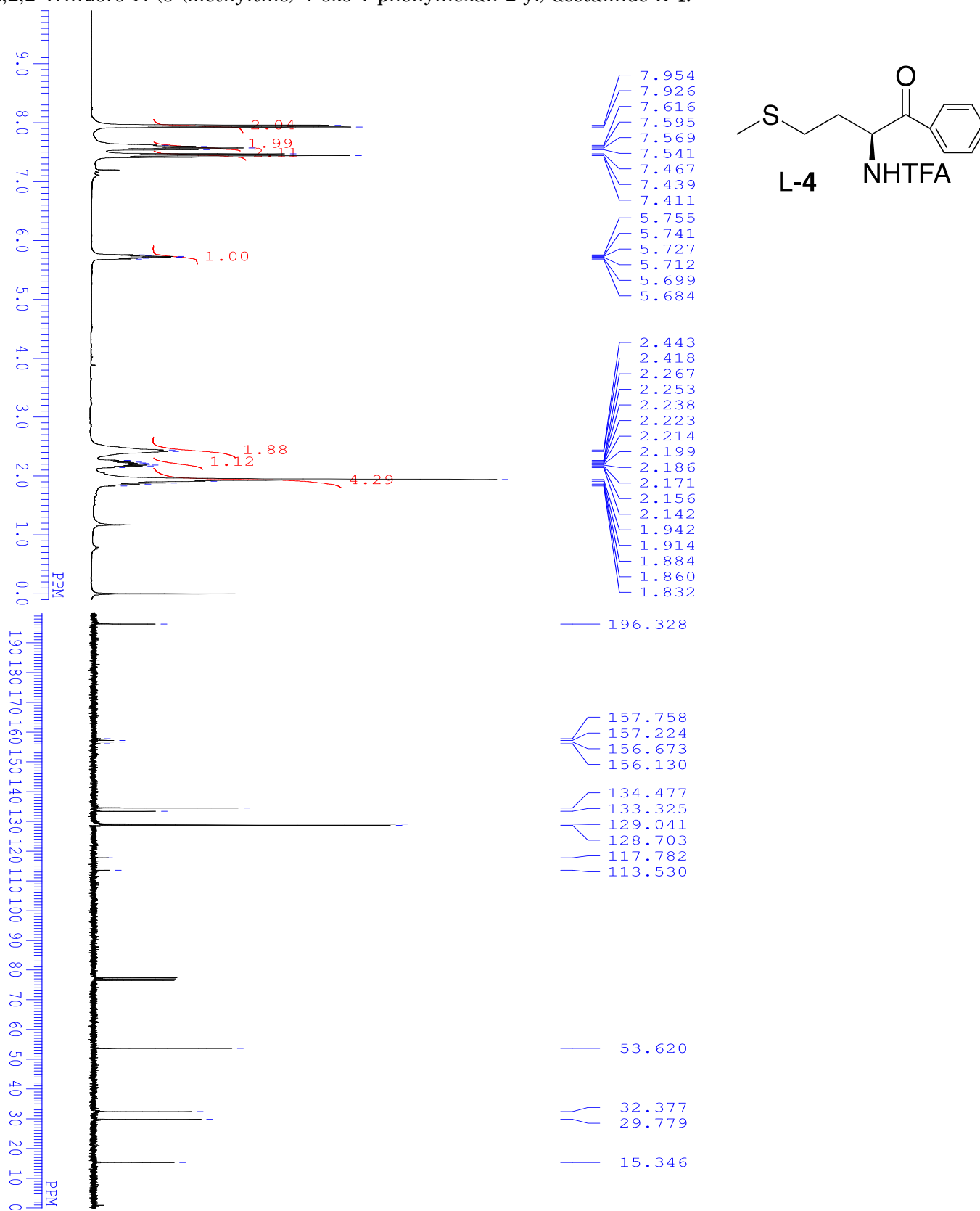
(S)-6-(Methylthio)-2-(2,2,2-trifluoroacetamido) hexanoic acid L-2

(R)-6-(Methylthio)-2-(2,2,2-trifluoroacetamido) hexanoic acid D-2

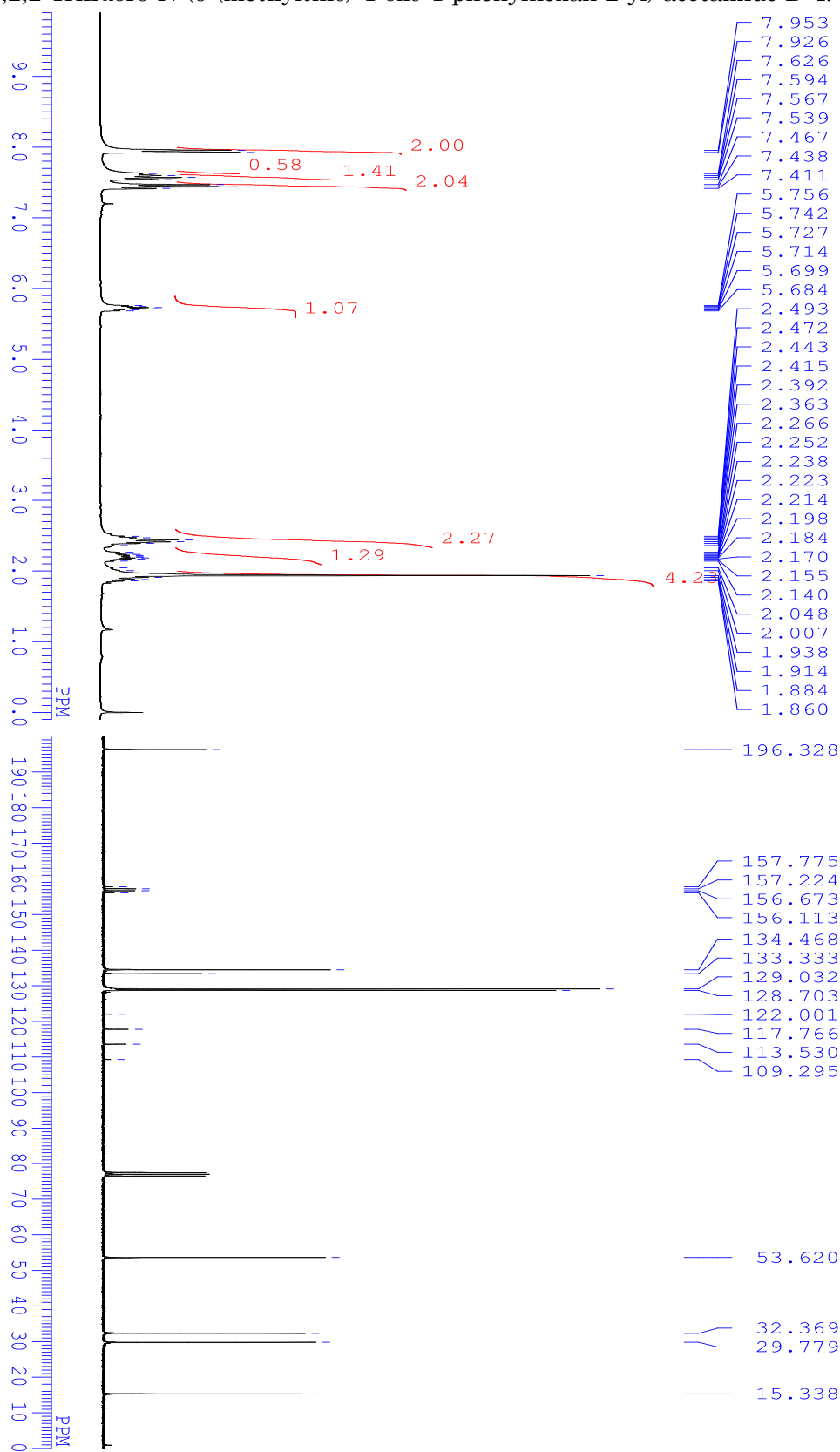
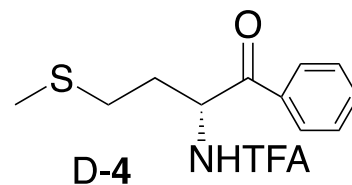
2,5-Dioxypyrrolidin-1-yl (*S*)-6-(methylthio)-2-(2,2,2-trifluoroacetamido)hexanoate L-3

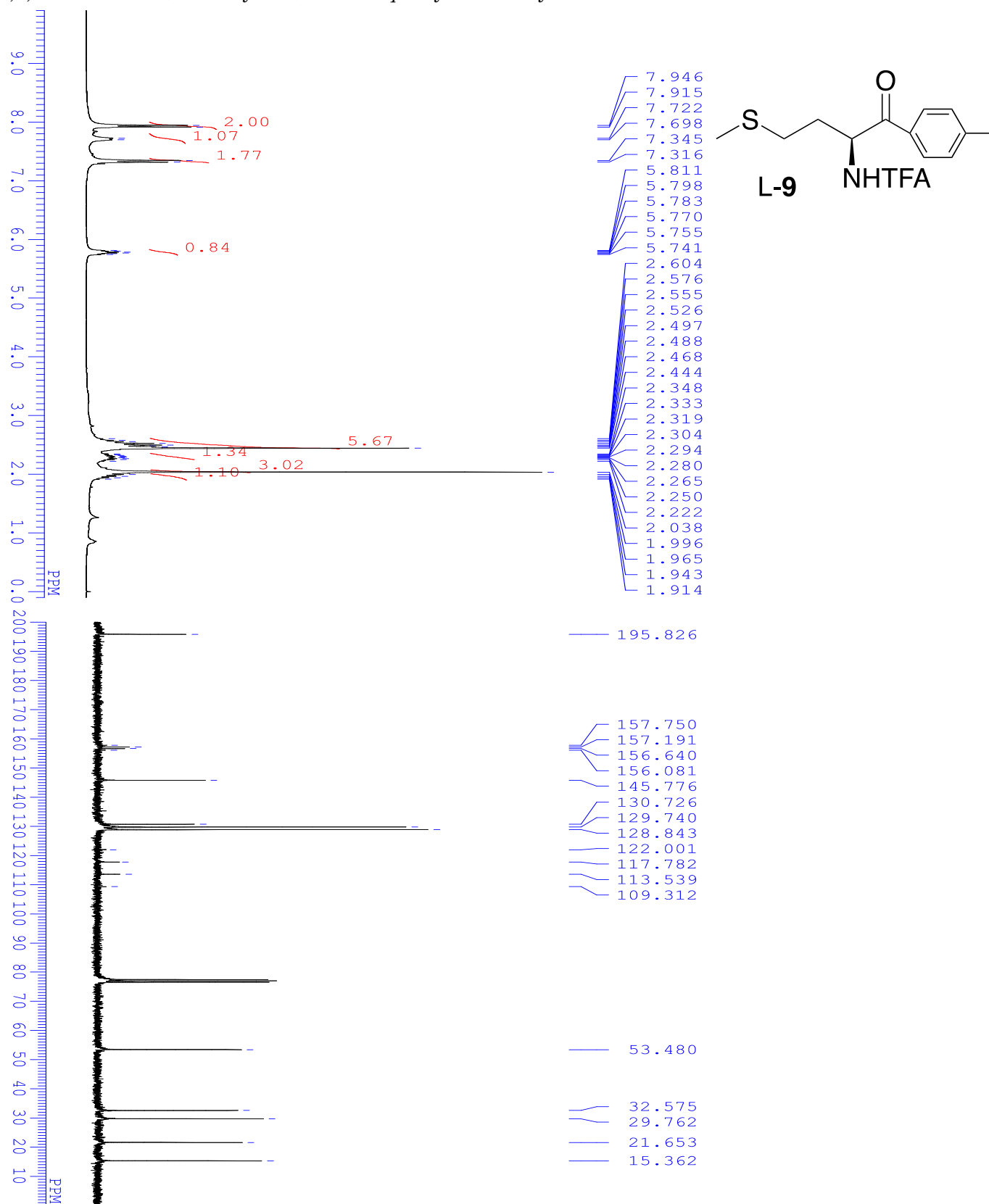
2,5-Dioxypyrrolidin-1-yl (*R*)-6-(methylthio)-2-(2,2,2-trifluoroacetamido)hexanoate D-3

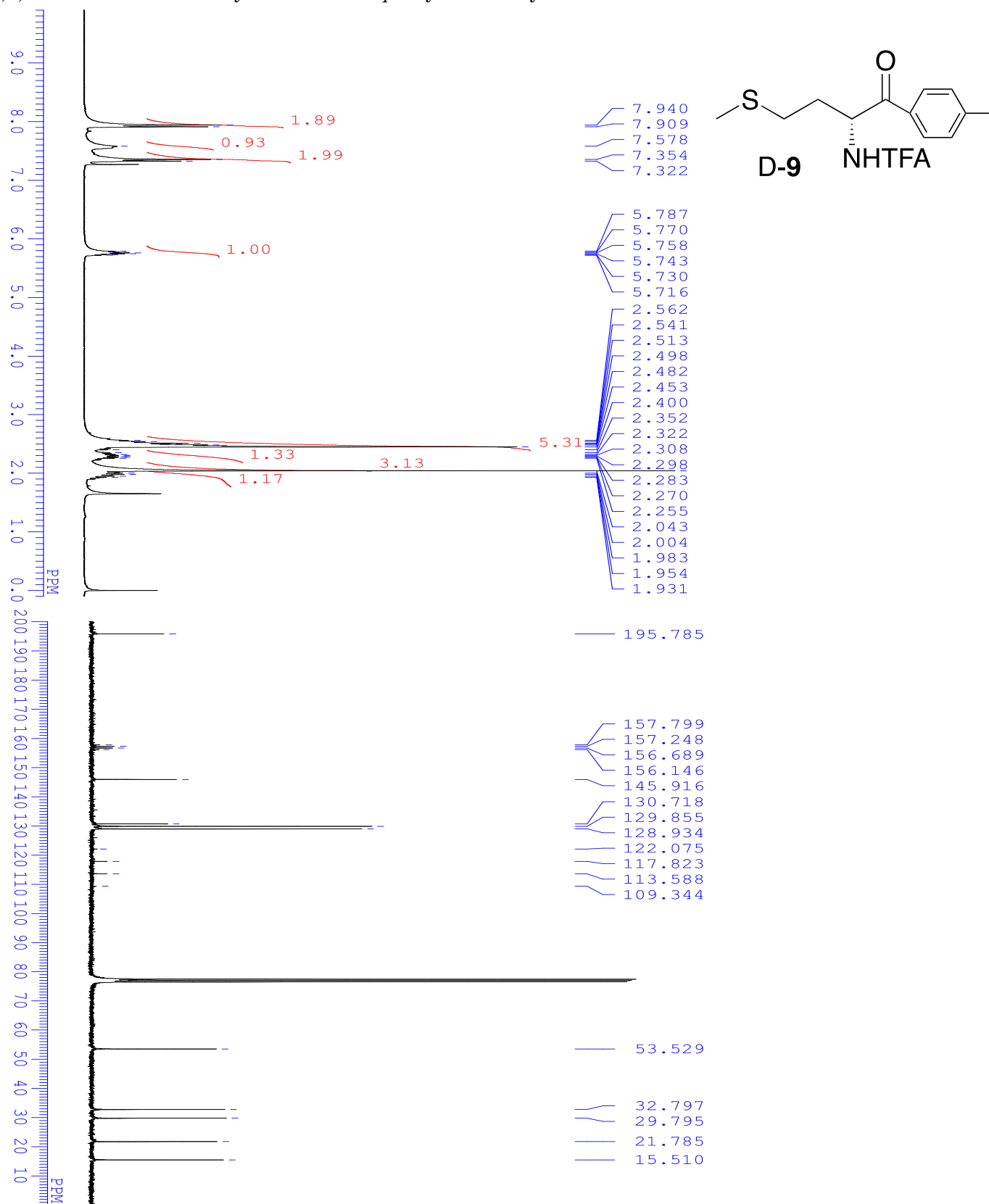
(*S*)-2,2,2-Trifluoro-*N*-(6-(methylthio)-1-oxo-1-phenylhexan-2-yl) acetamide L-4.



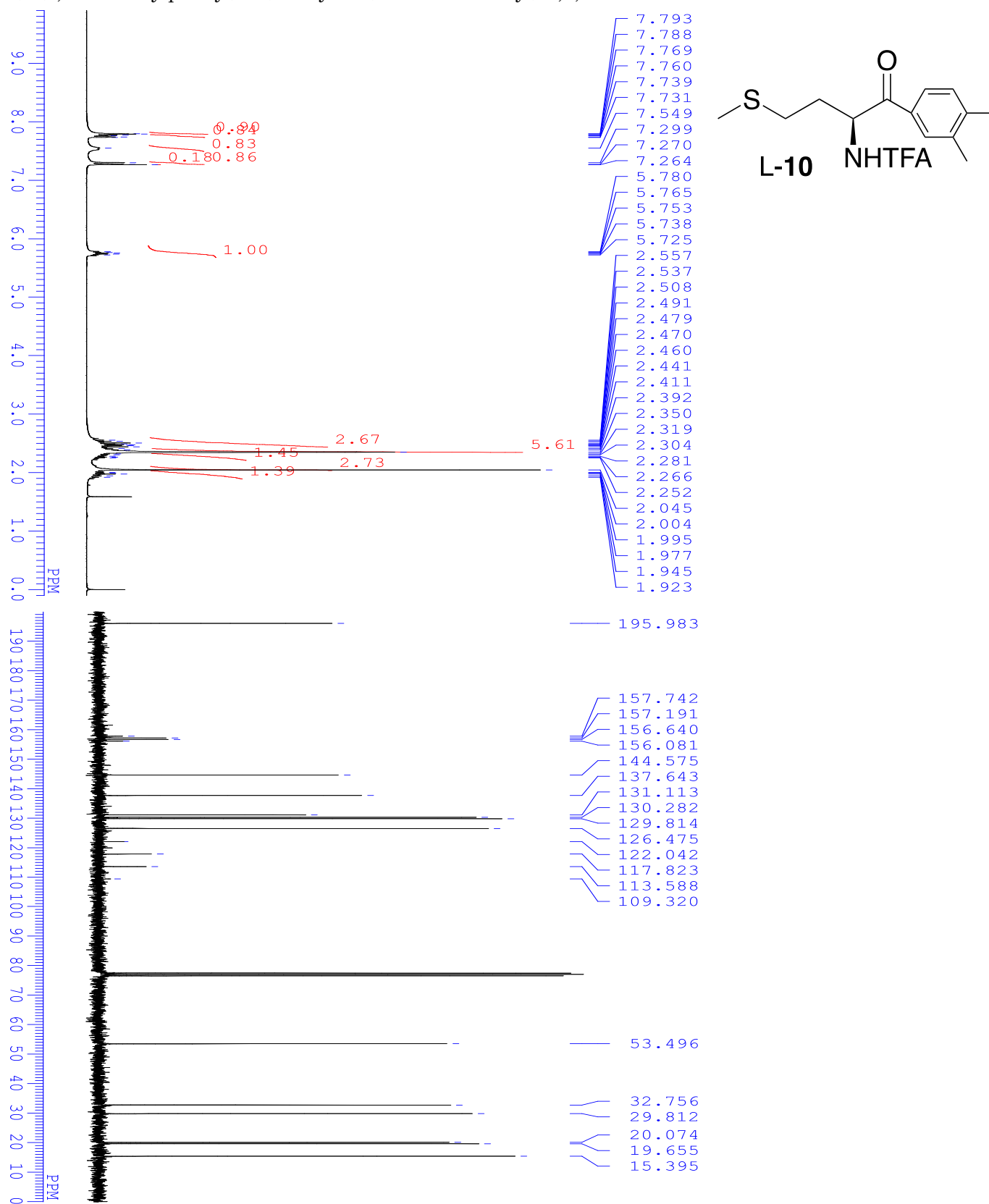
(*R*)-2,2,2-Trifluoro-*N*-(6-(methylthio)-1-oxo-1-phenylhexan-2-yl) acetamide D-4.



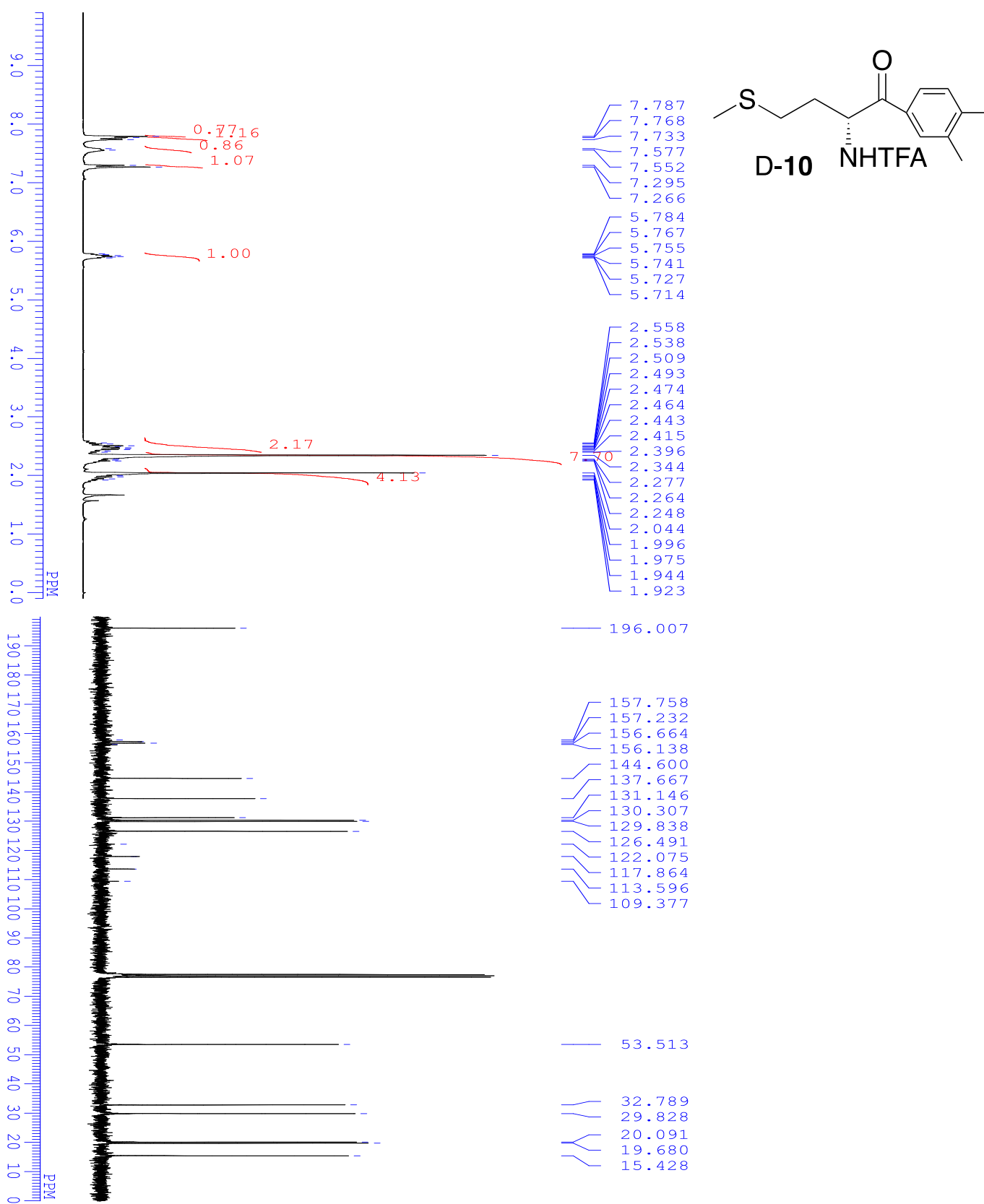
(S)-2,2,2-Trifluoro-*N*-(4-(methylthio)-1-oxo-1-(*p*-tolyl)butan-2-yl)acetamide L-9

(R)-2,2,2-Trifluoro-*N*-(4-(methylthio)-1-oxo-1-(*p*-tolyl)butan-2-yl)acetamide D-9

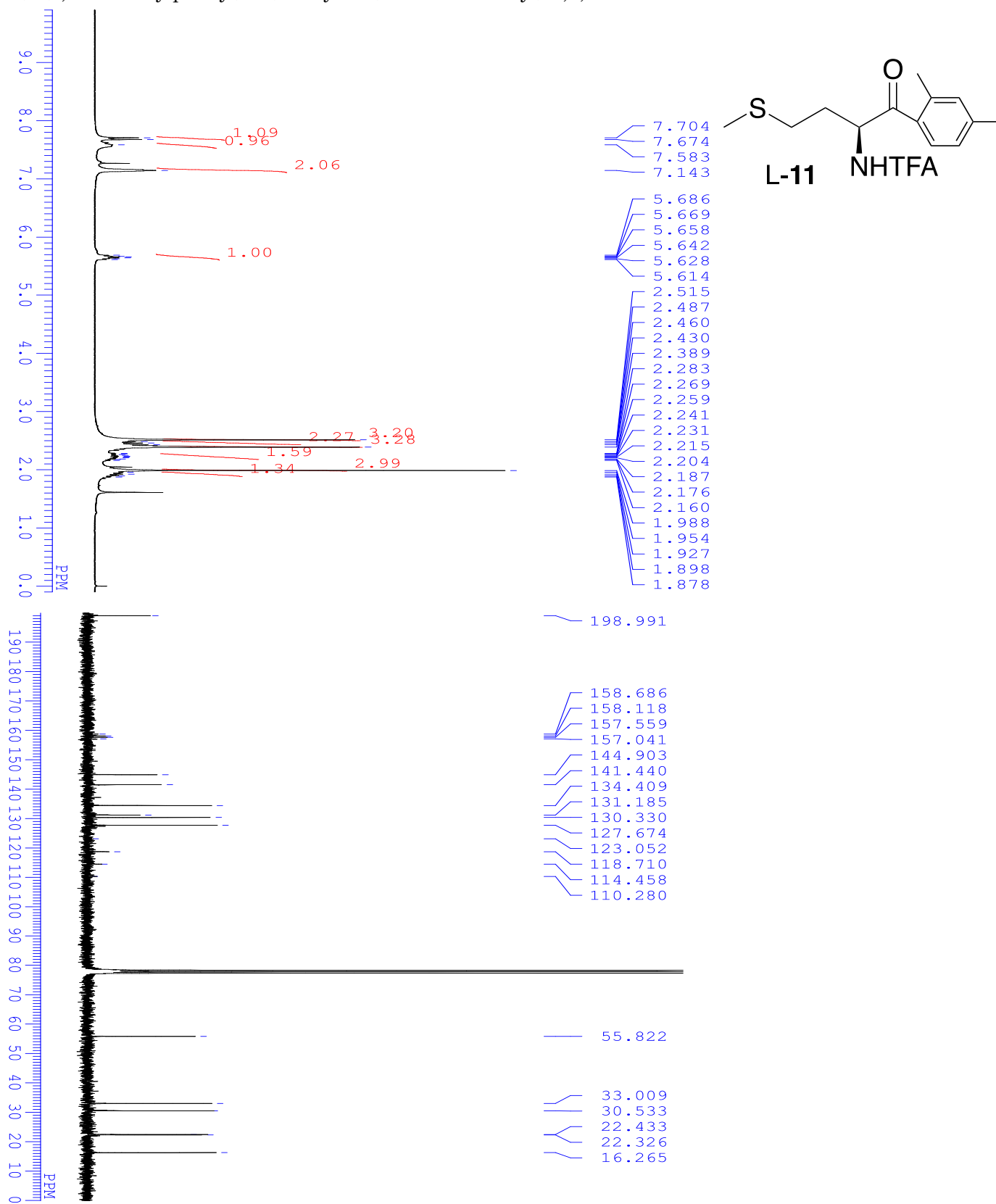
(*S*)-*N*-(3,4-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide L-10.

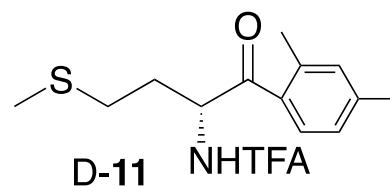
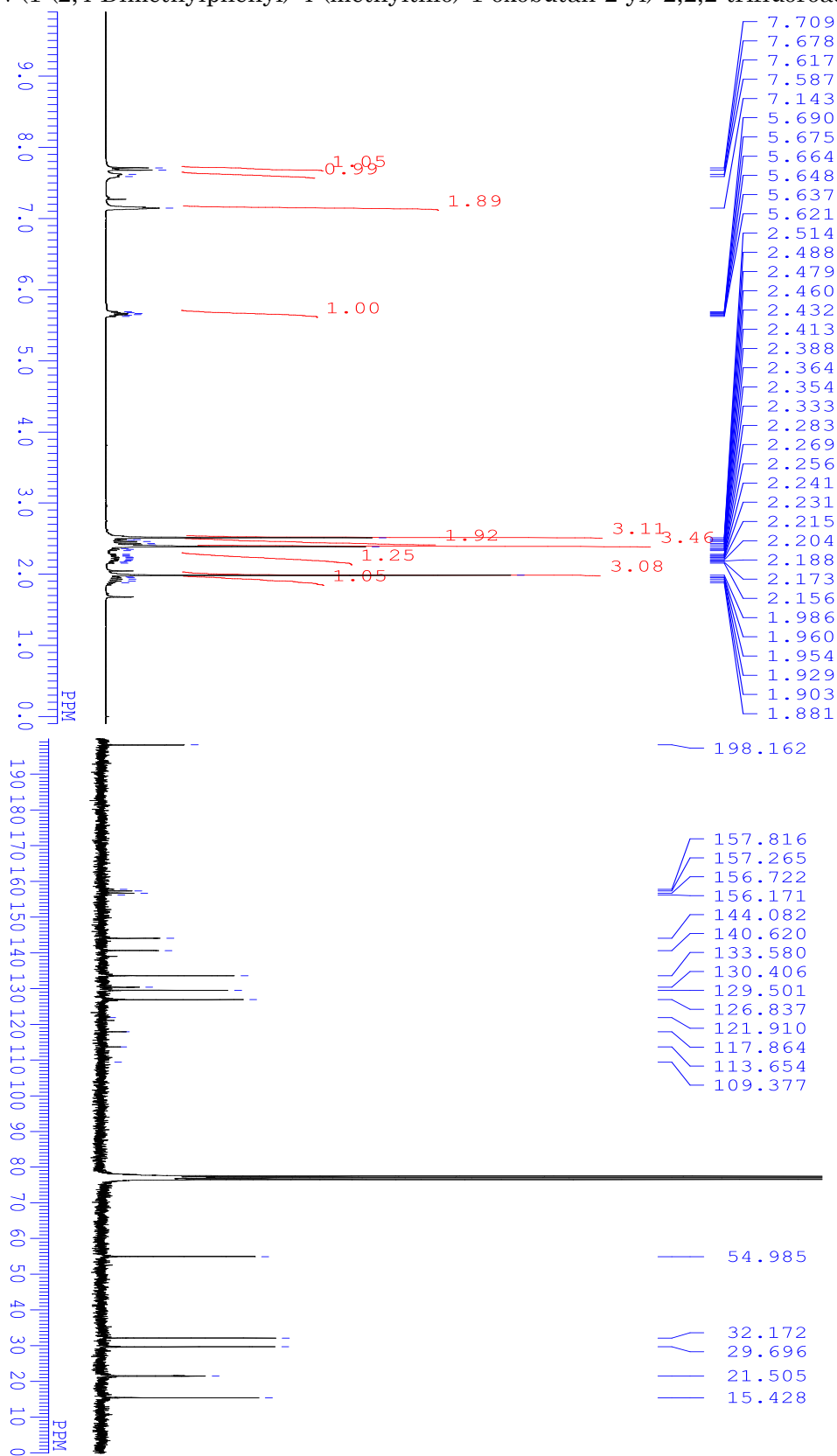


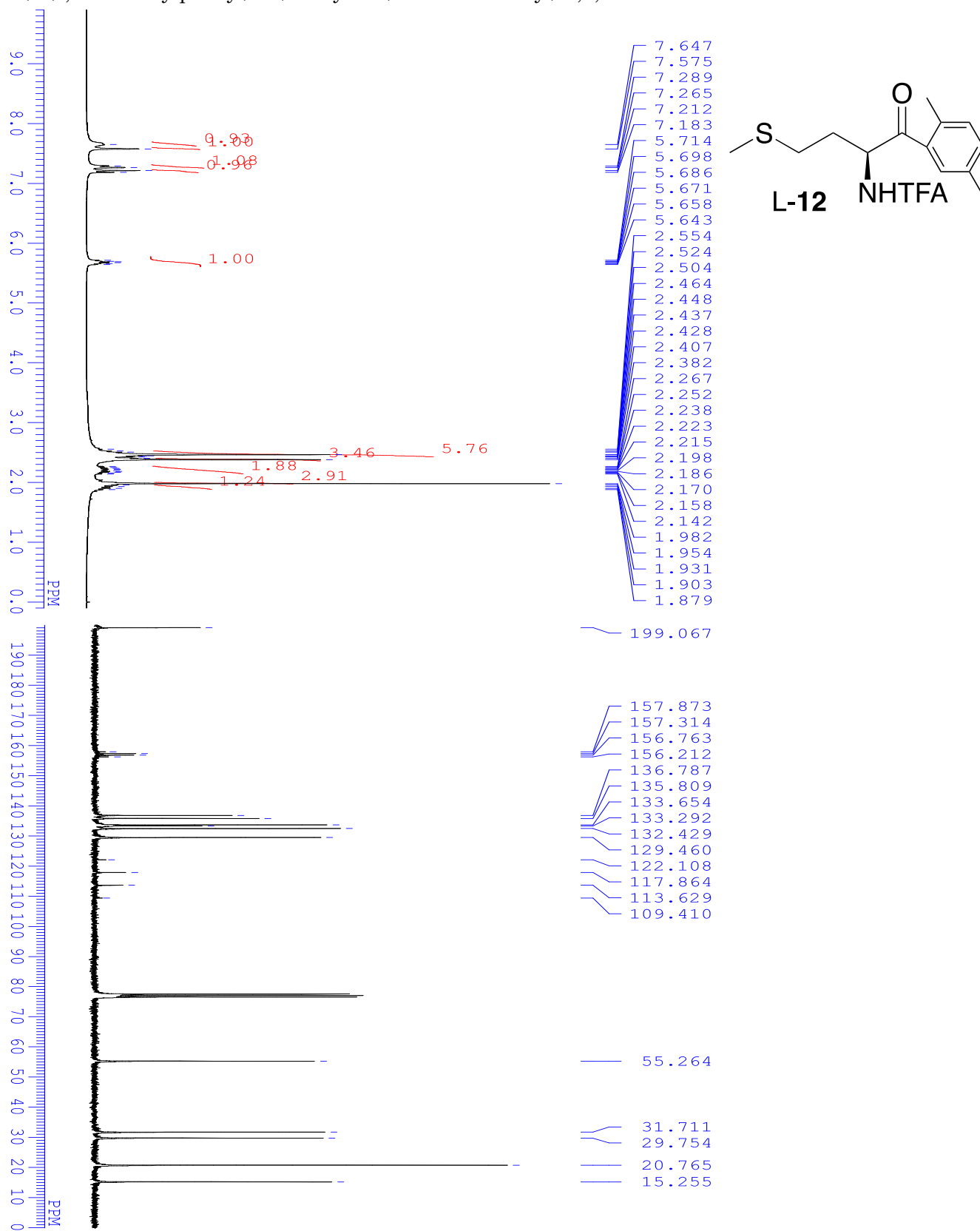
(*R*)-*N*-(1-(3,4-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide D-10.



(S)-N-(1-(2,4-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide L-11



(R)-*N*-(1-(2,4-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide D-11

(S)-*N*-(1-(2,5-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide L-12

(R)-*N*-(1-(2,5-Dimethylphenyl)-4-(methylthio)-1-oxobutan-2-yl)-2,2,2-trifluoroacetamide D-12