

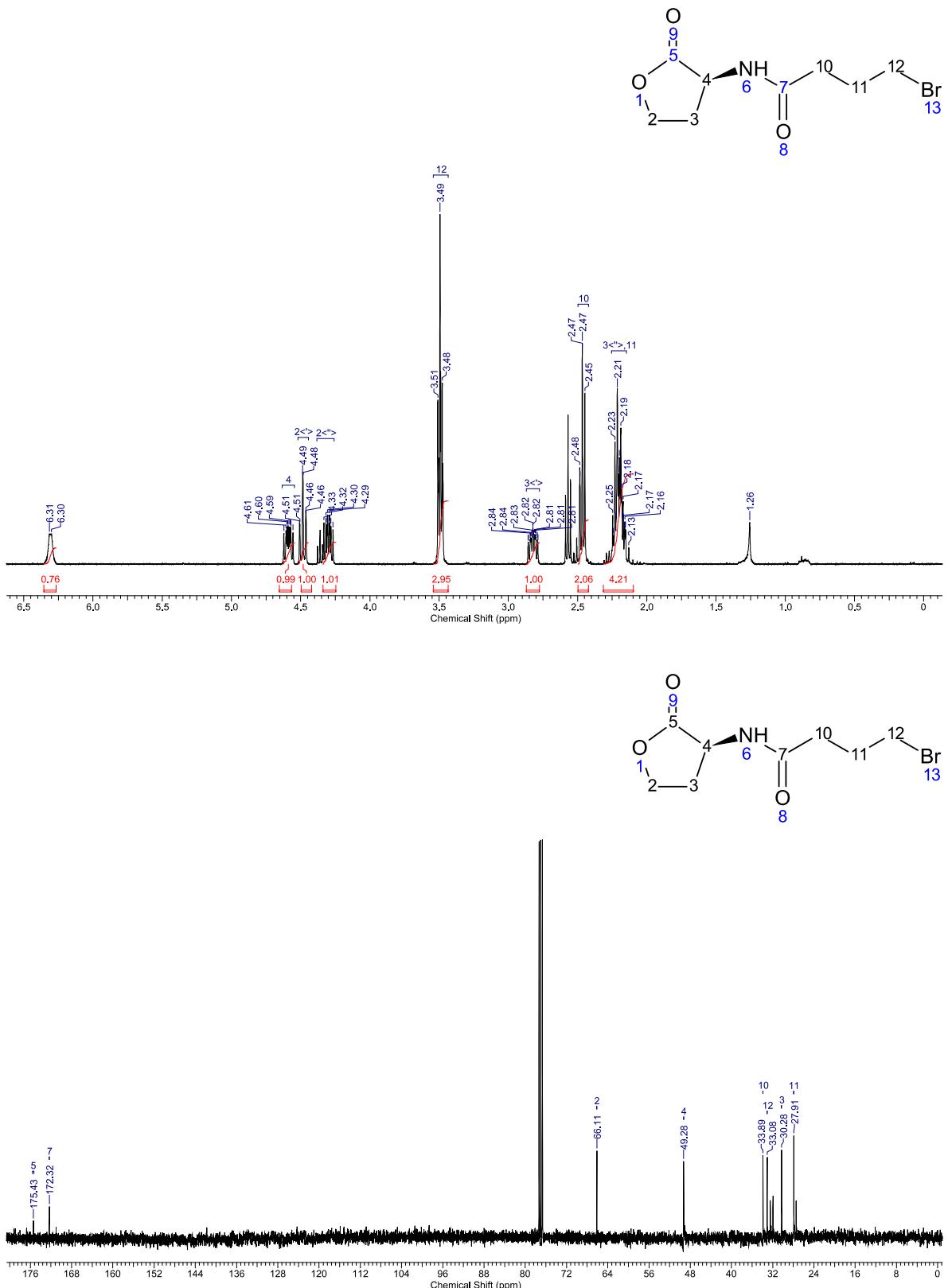
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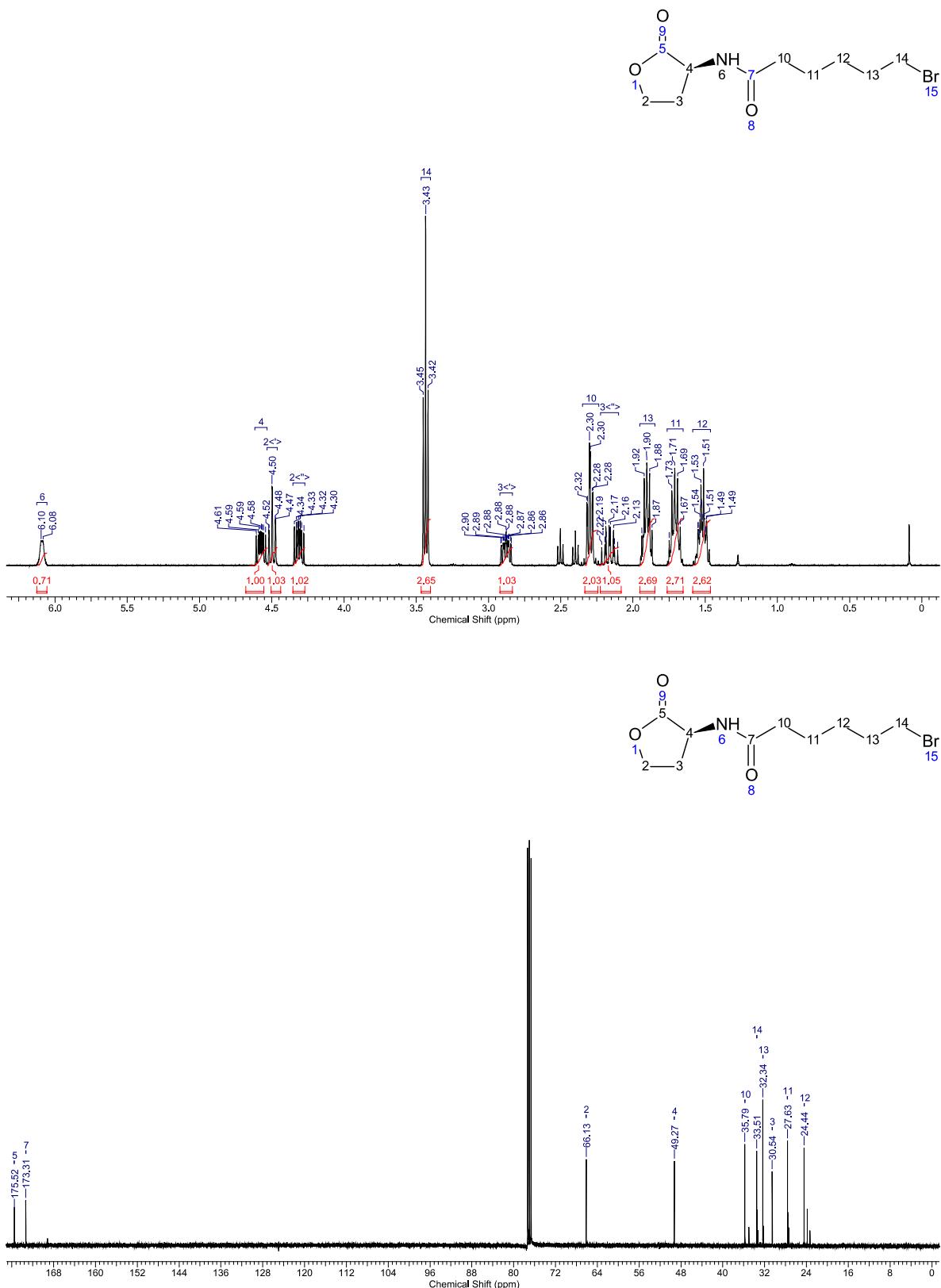
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# 1 NMR spectra

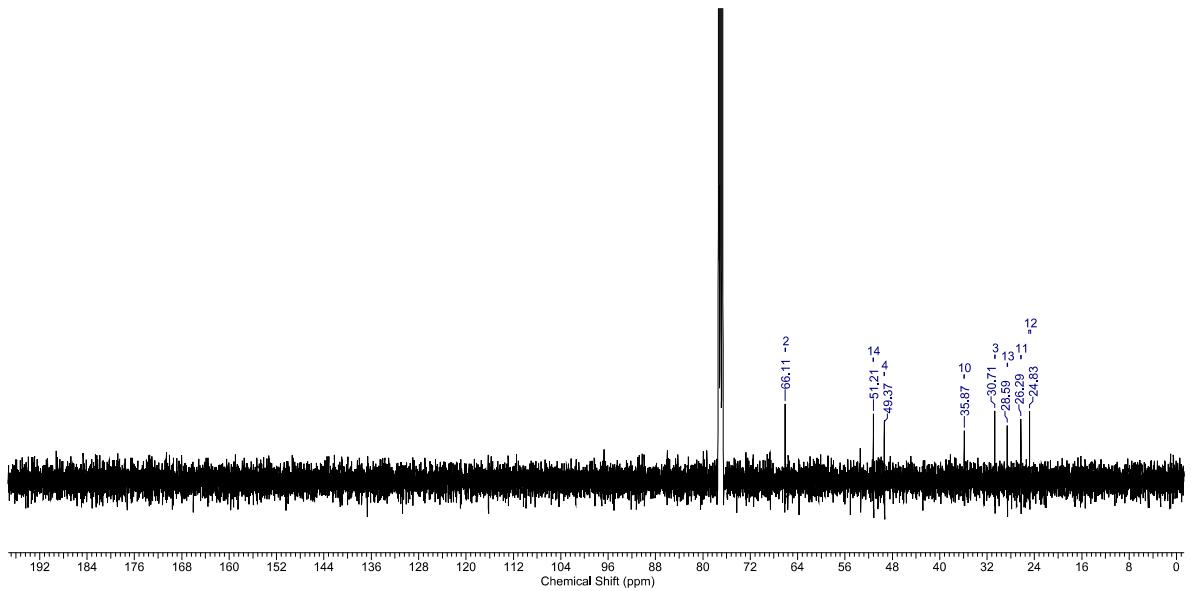
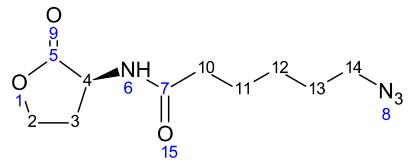
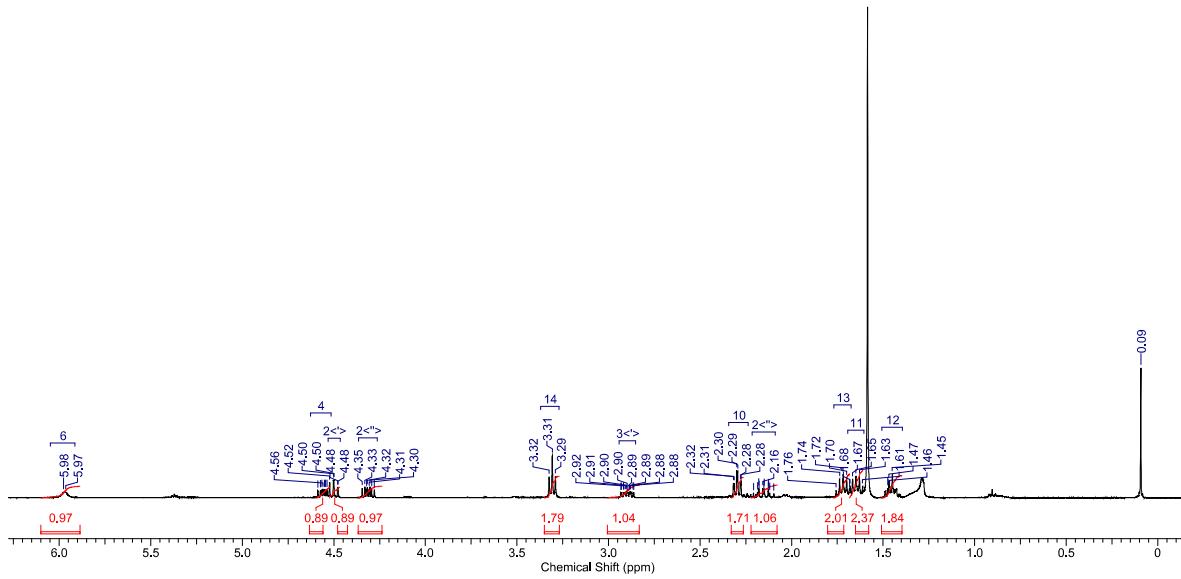
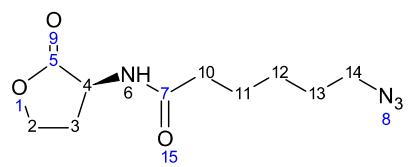
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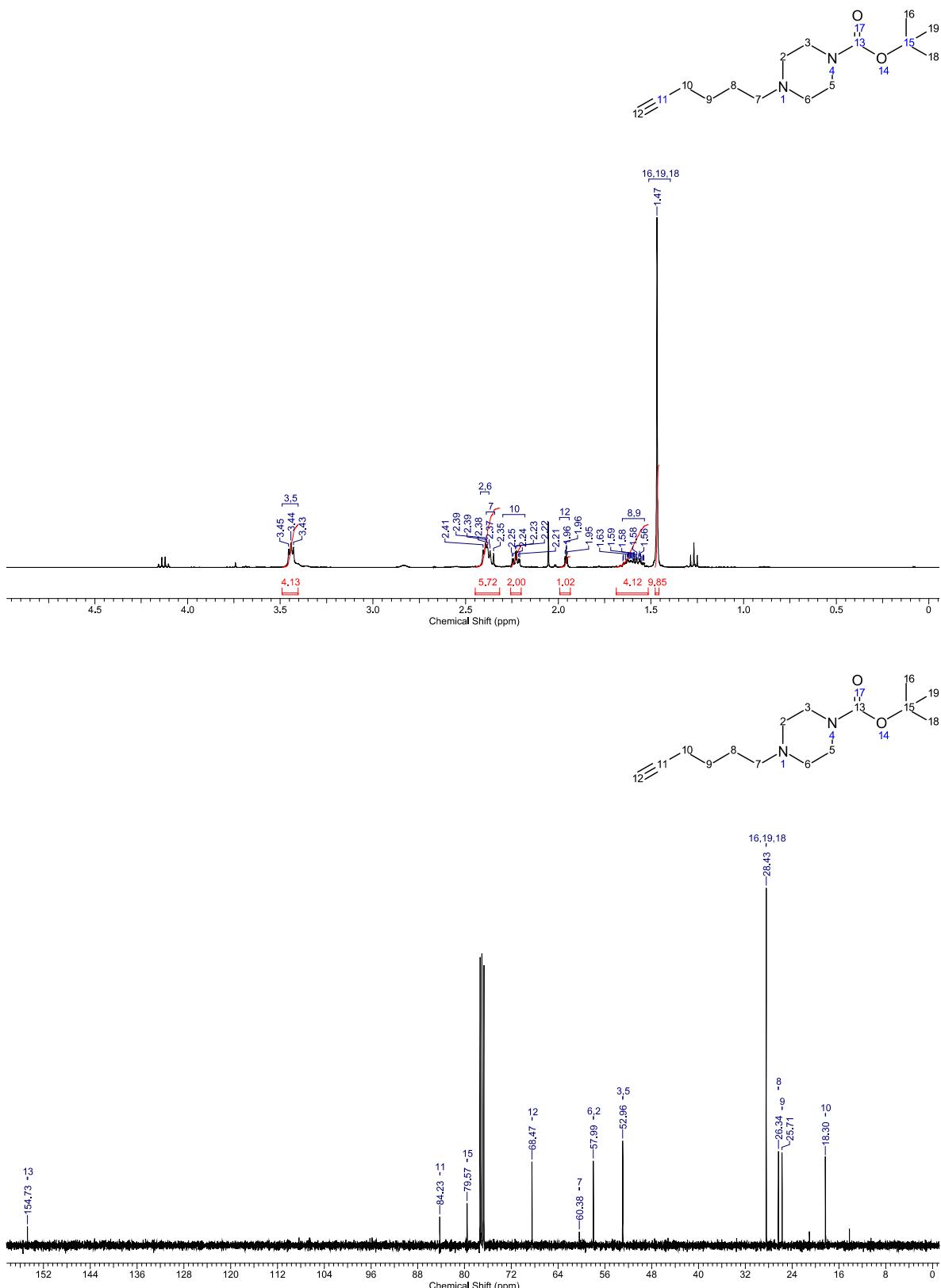
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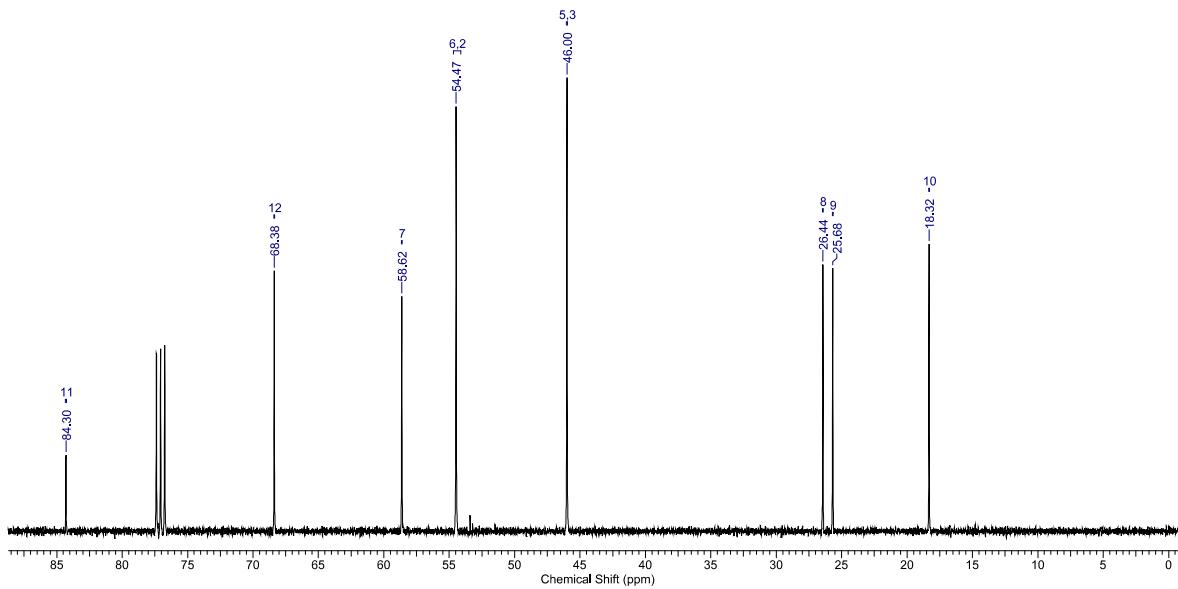
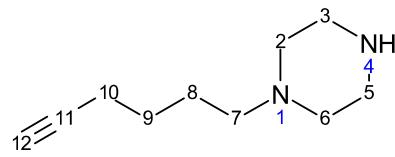
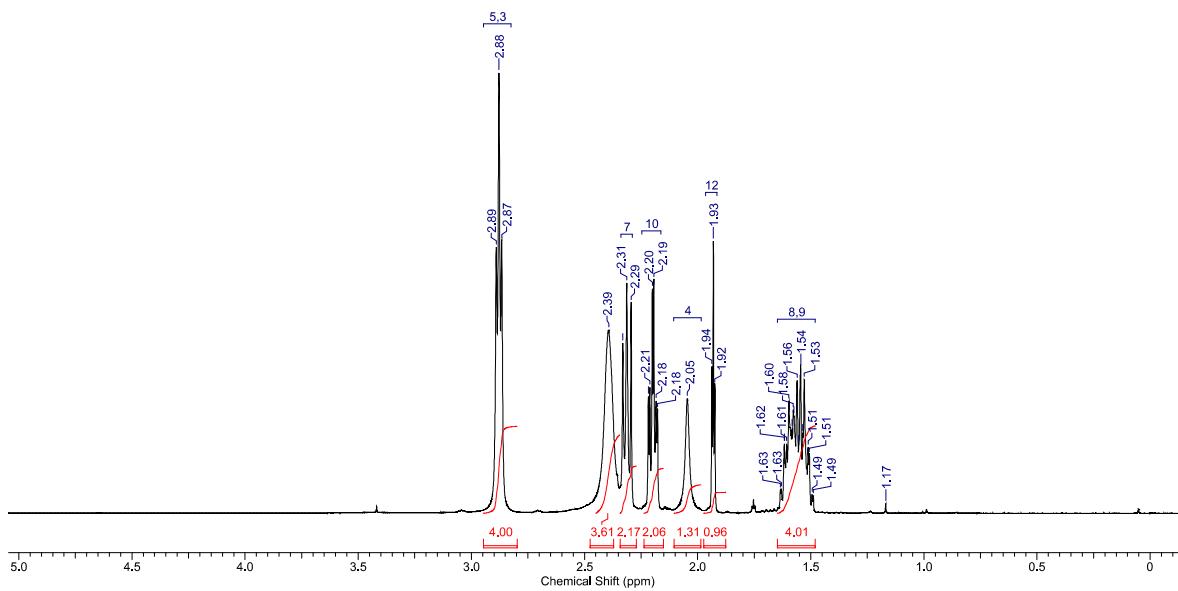
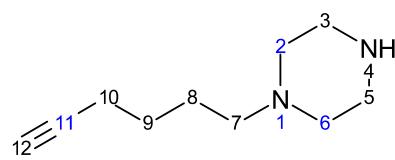
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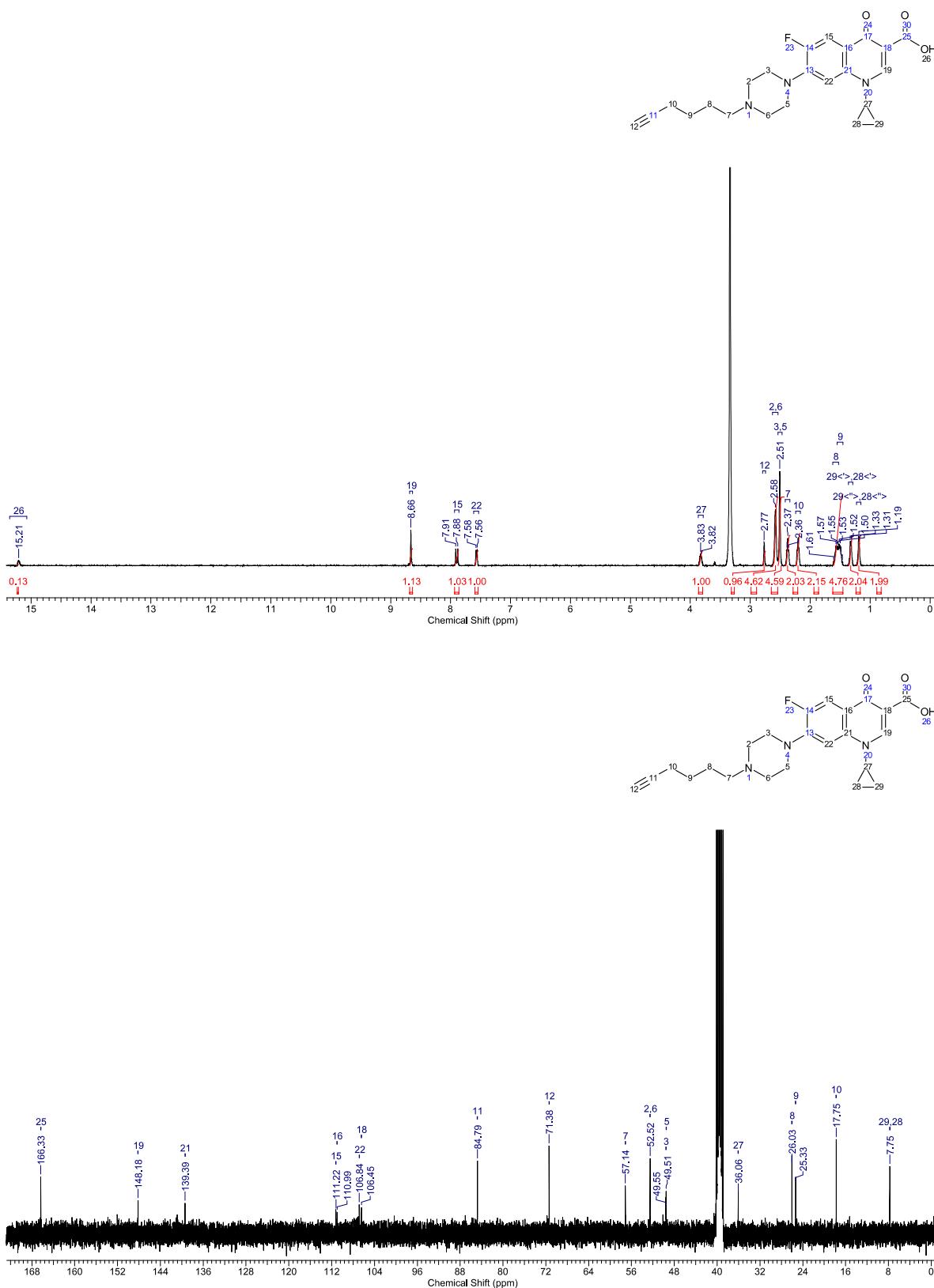
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Y4Tri\_H.pdf

Y4Tri\_C.pdf

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HL2T4Cip\_H.pdf

HL2T4Cip\_C.pdf

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HL4T4Cip\_H.pdf

HL4T4Cip\_C.pdf

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HL6T4Cip\_H.pdf

HL6T4Cip\_C.pdf

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6HHQT4Cip\_H.pdf

6HHQT4Cip\_C.pdf

1.12 (*S*)-4-(4-(4-((2,4-Diaminopyrimidin-5-yl)methyl)-2,6-dimethoxyphenoxy)butyl)-  
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HL4T4Tri\_H.pdf

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1.13 (*S*)-6-(4-(4-((2,4-Diaminopyrimidin-5-yl)methyl)-2,6-dimethoxyphenoxy)butyl)-  
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HL6T4Tri\_H.pdf

HL6T4Tri\_C.pdf

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6HHQT4Tri\_H.pdf

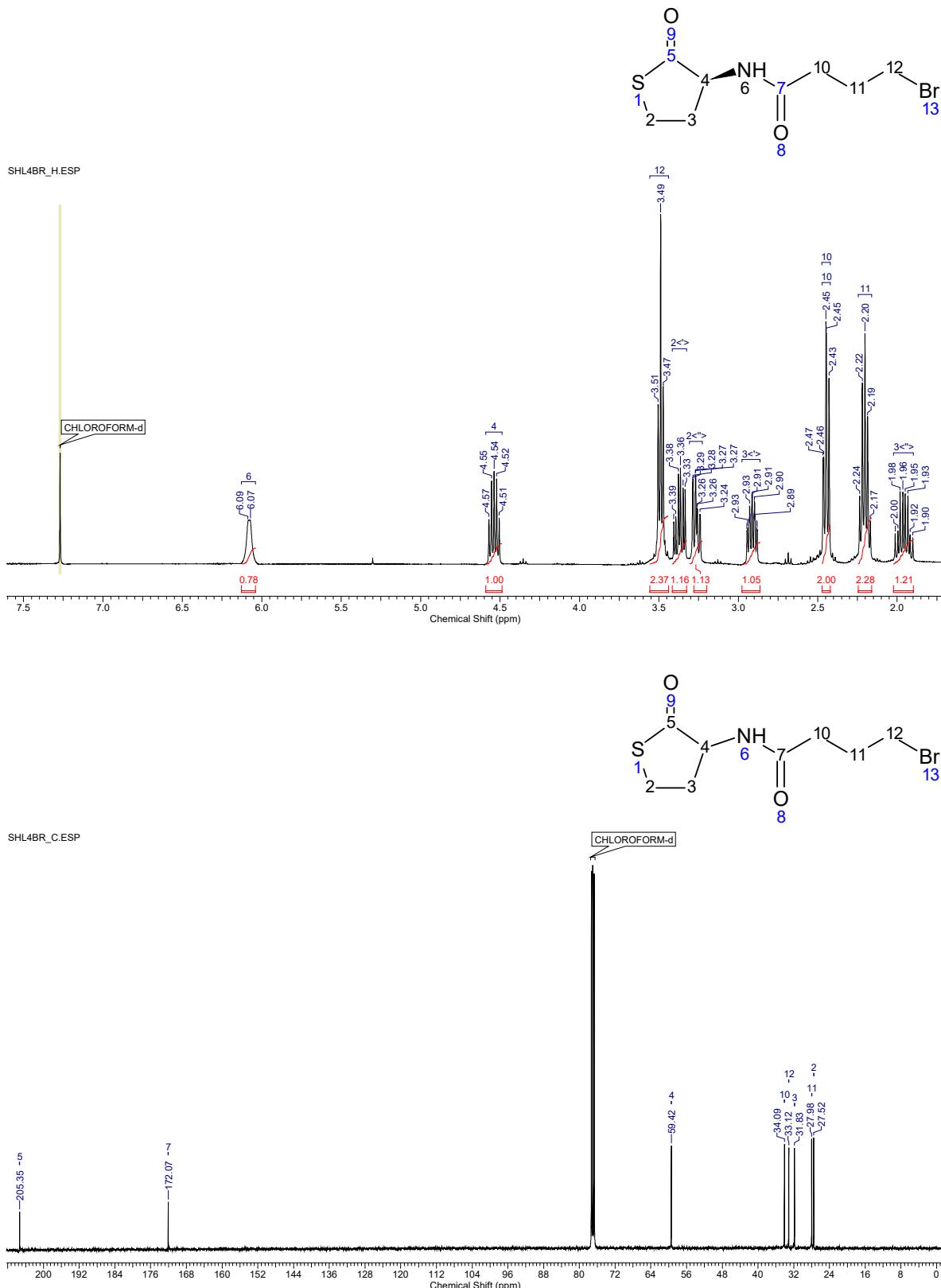
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1.15 2-(6-(4-(4-((2,4-Diaminopyrimidin-5-yl)methyl)-2,6-dimethoxyphenoxy)butyl)-1*H*-1,2,3-triazol-1-yl)hexyl)-3-hydroxyquinolin-4(1*H*)-one 132

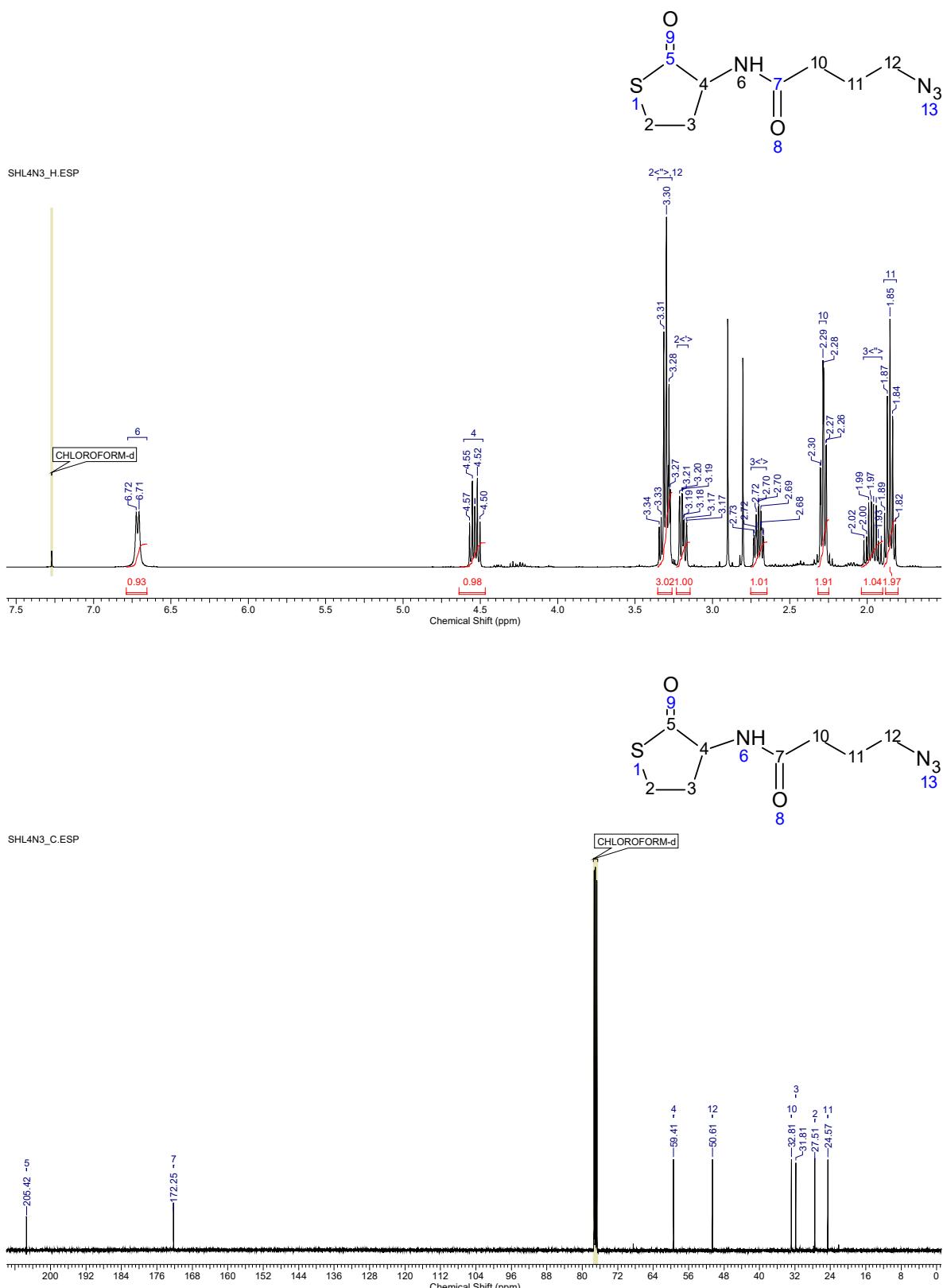
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PQST4Tri\_C.pdf

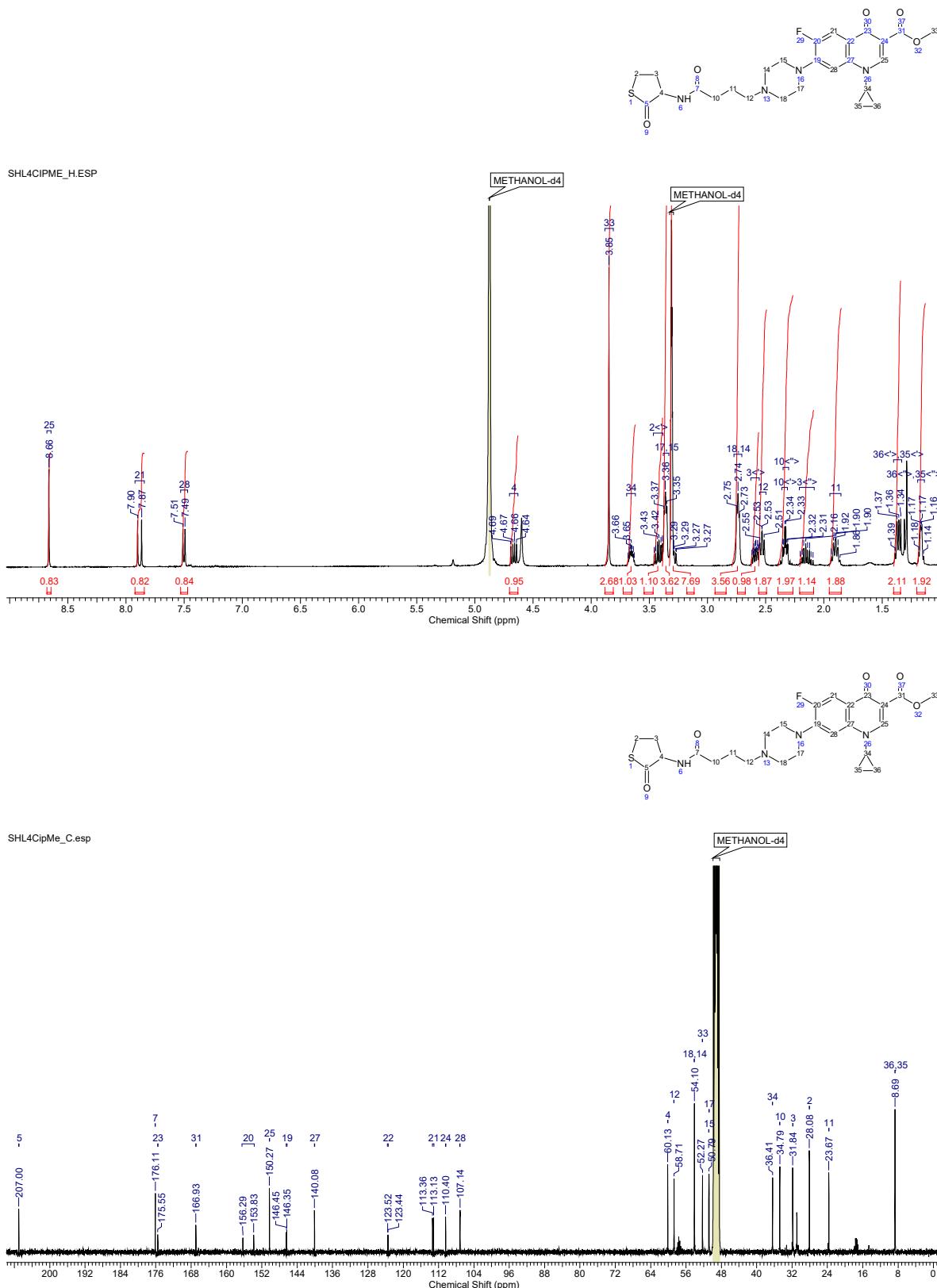
## 1.16 4-Bromo-N-(2-oxotetrahydrothiophen-3-yl)butanamide 133



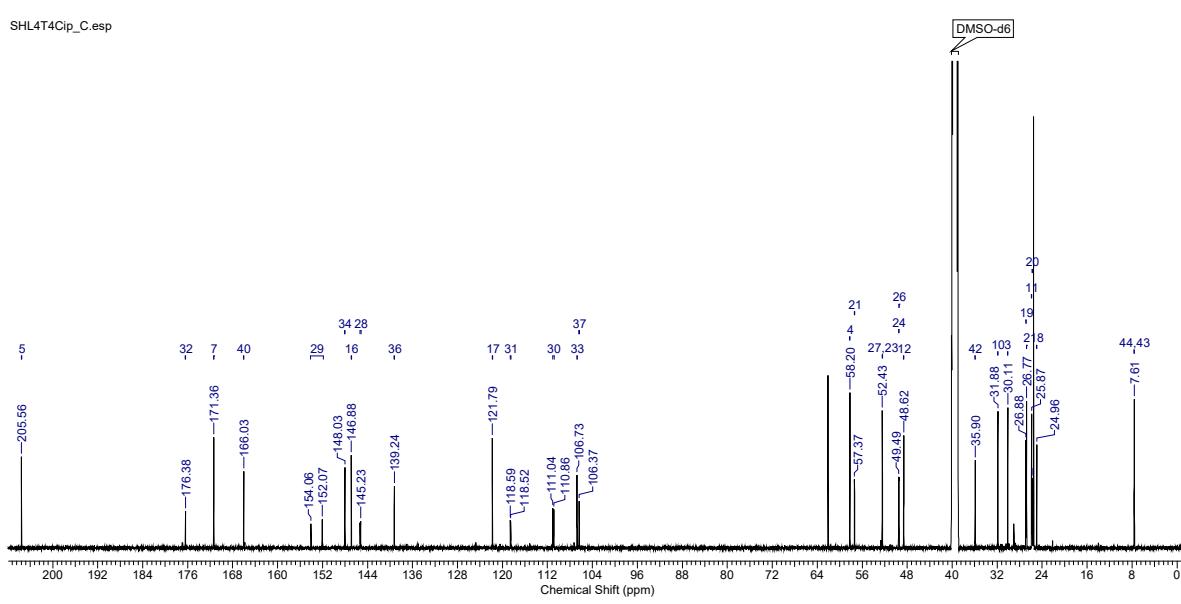
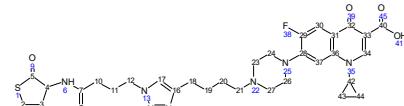
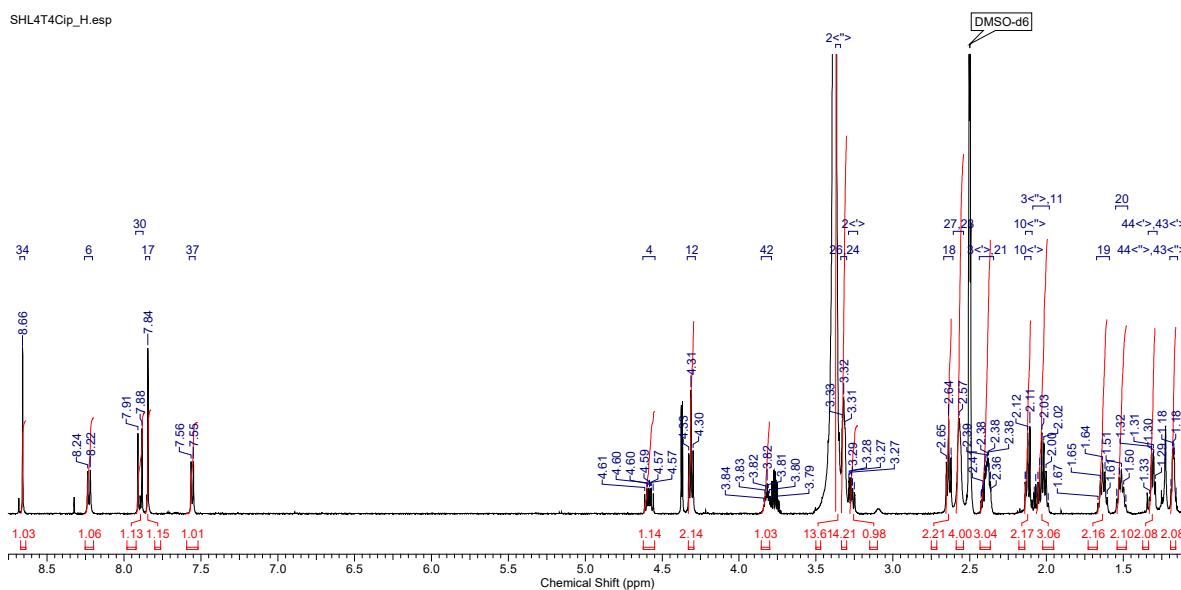
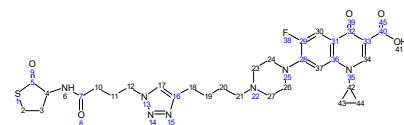
1.17 4-Azido-*N*-(2-oxotetrahydrothiophen-3-yl)butanamide 134



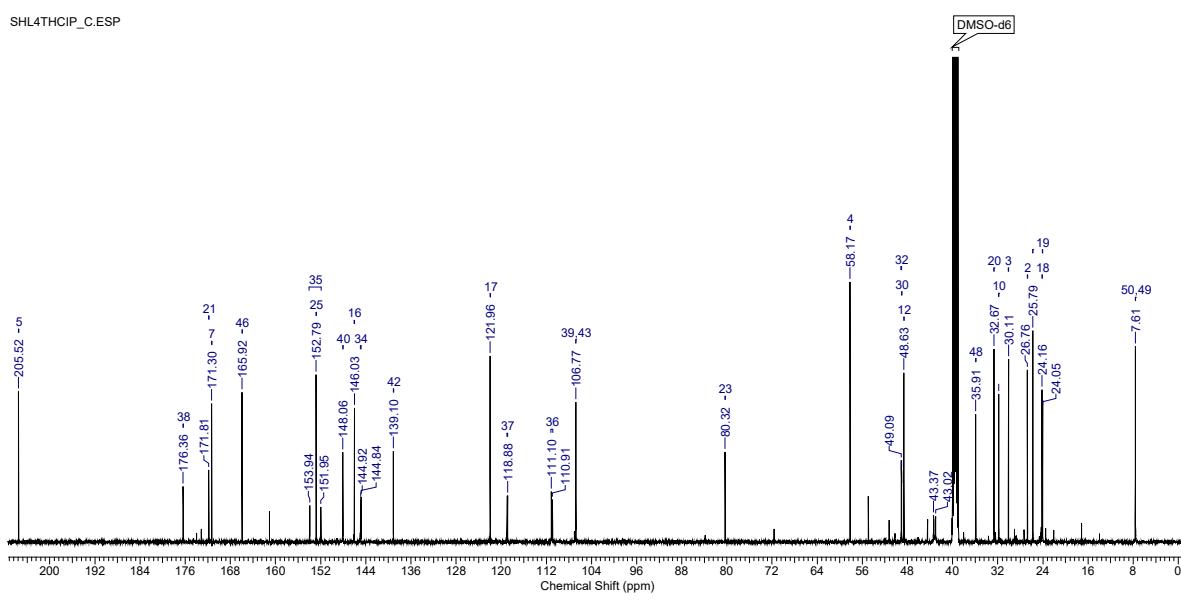
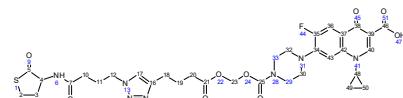
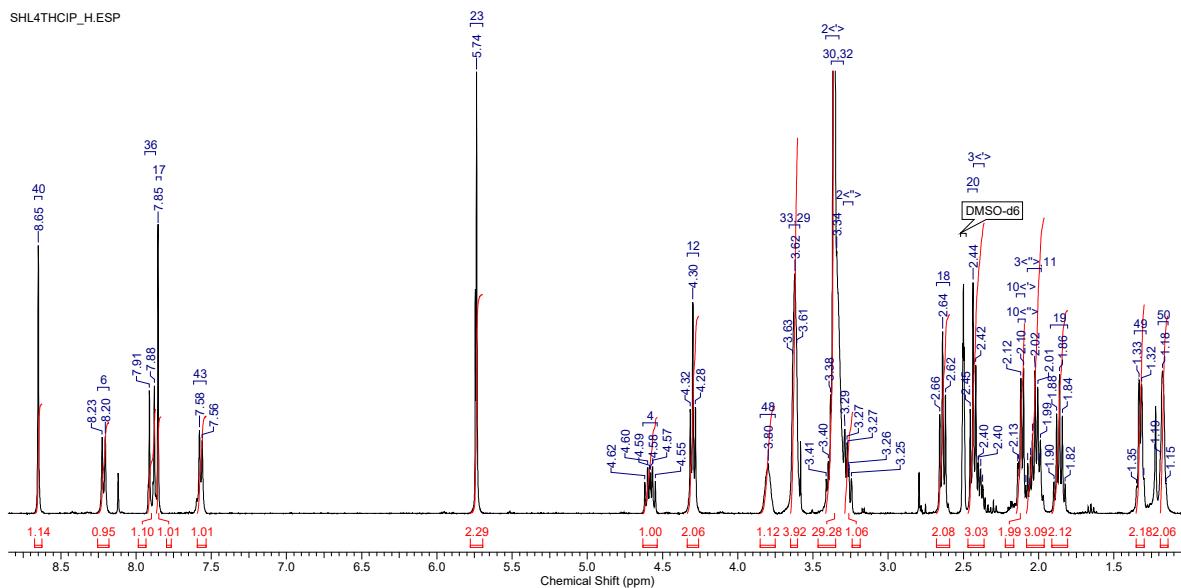
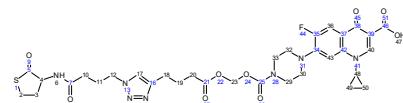
1.18 Methyl 1-cyclopropyl-6-fluoro-4-oxo-7-(4-(4-oxo-4-((2-oxotetrahydrothiophen-3-yl)amino)butyl)piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylate 135



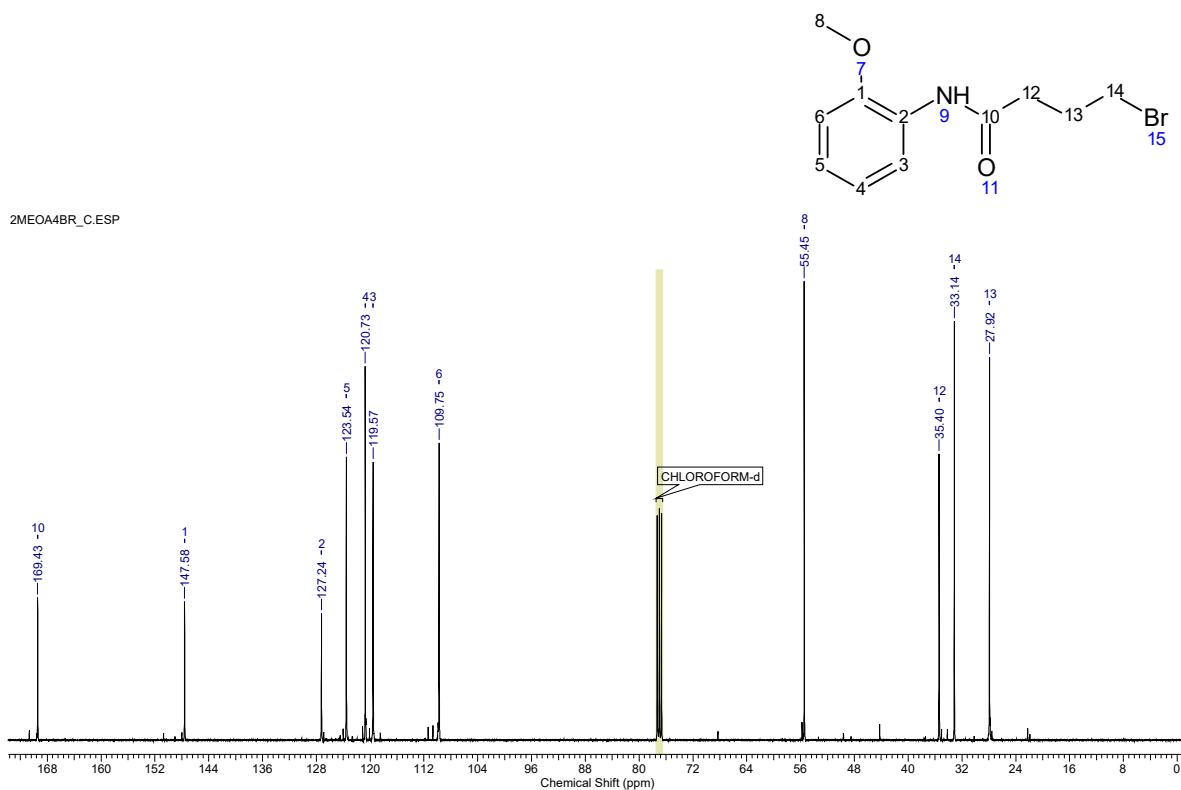
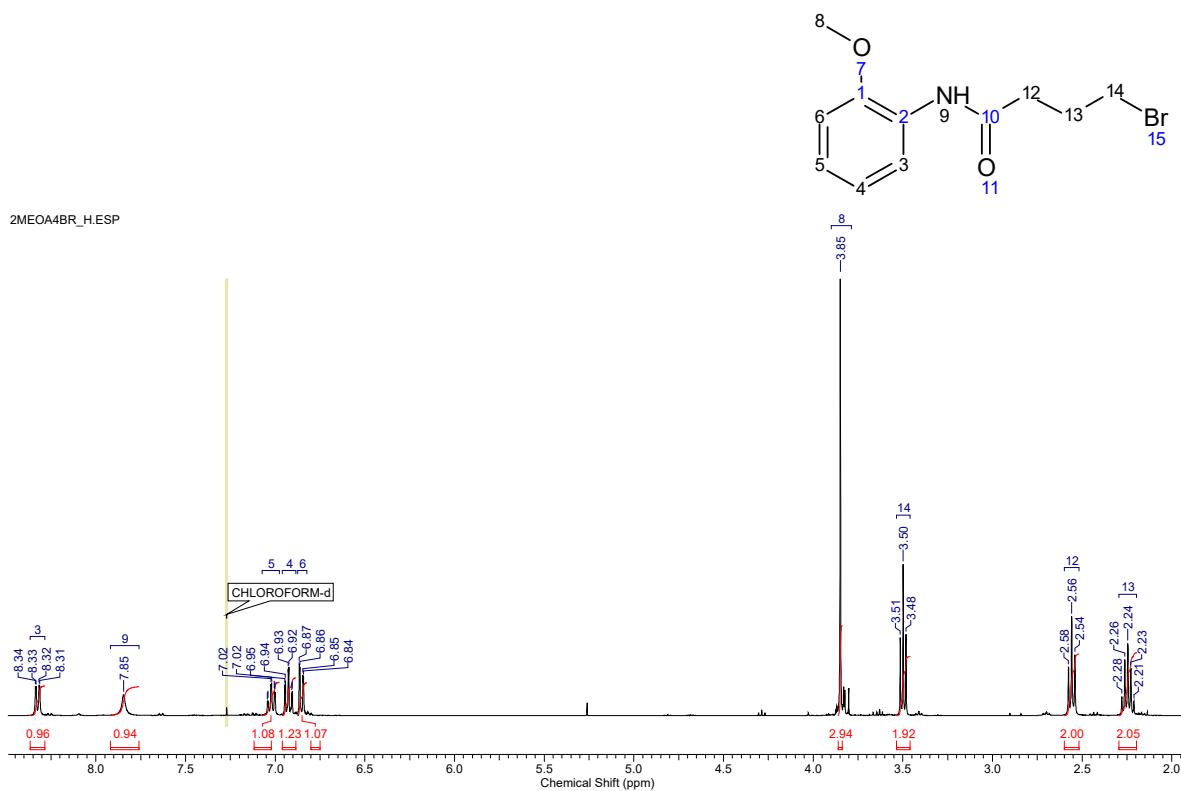
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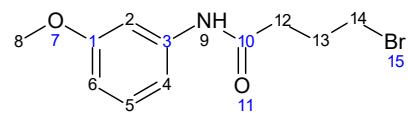
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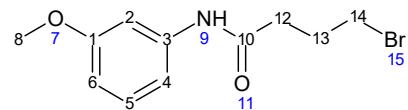
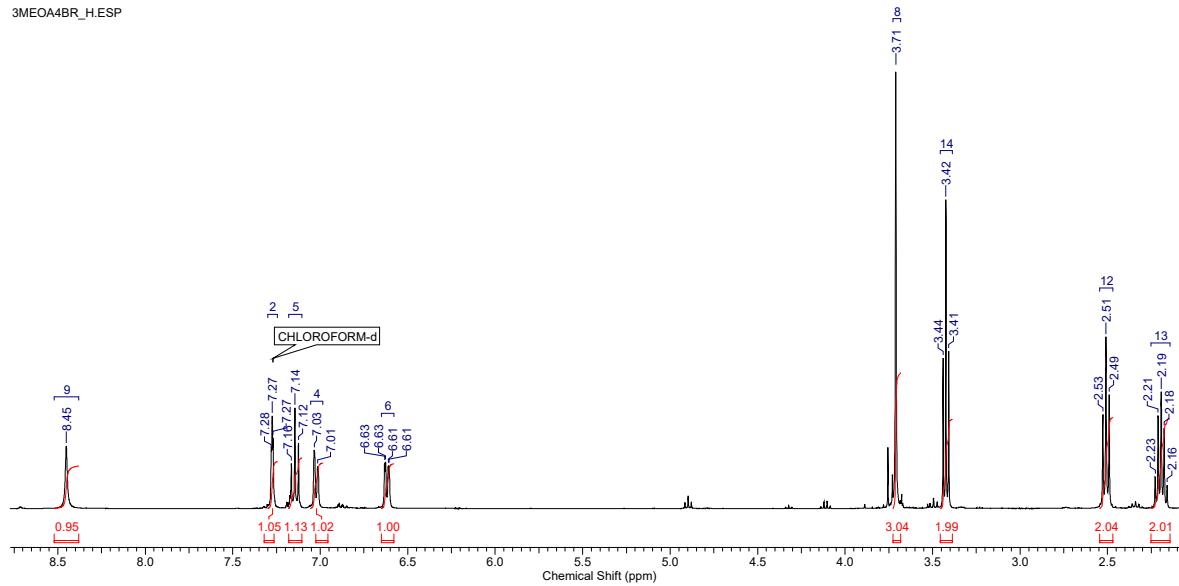
### 1.21 4-Bromo-N-(2-methoxyphenyl)butanamide 138



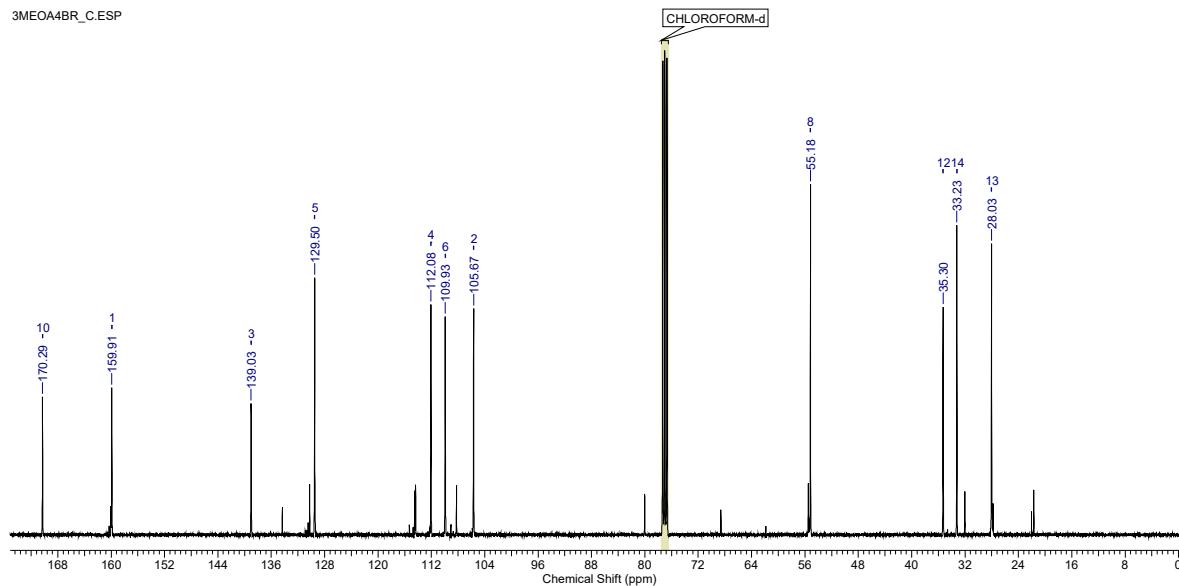
## 1.22 4-Bromo-N-(3-methoxyphenyl)butanamide 139



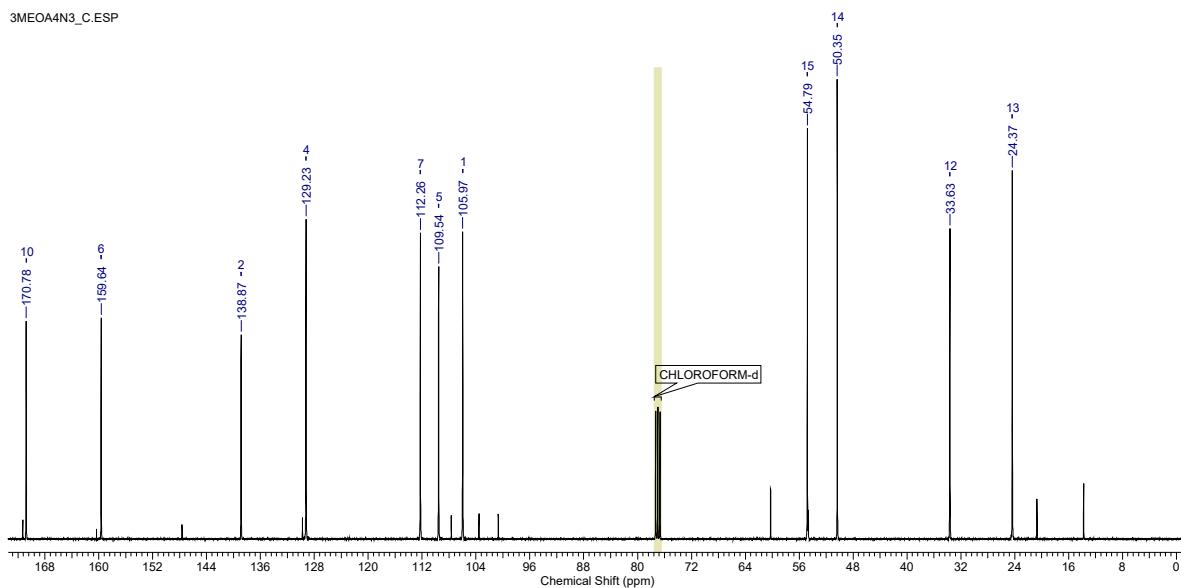
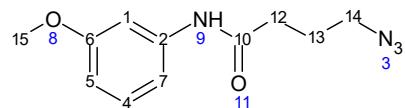
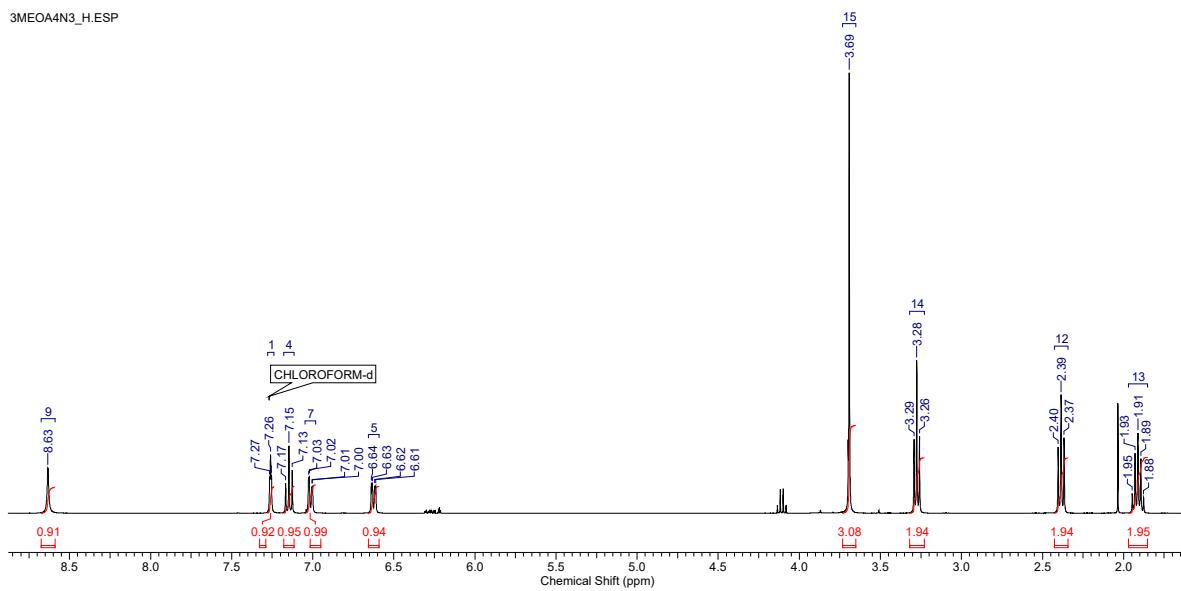
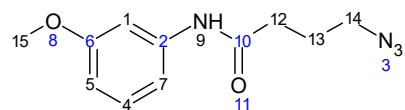
3MEOA4BR\_H.ESP



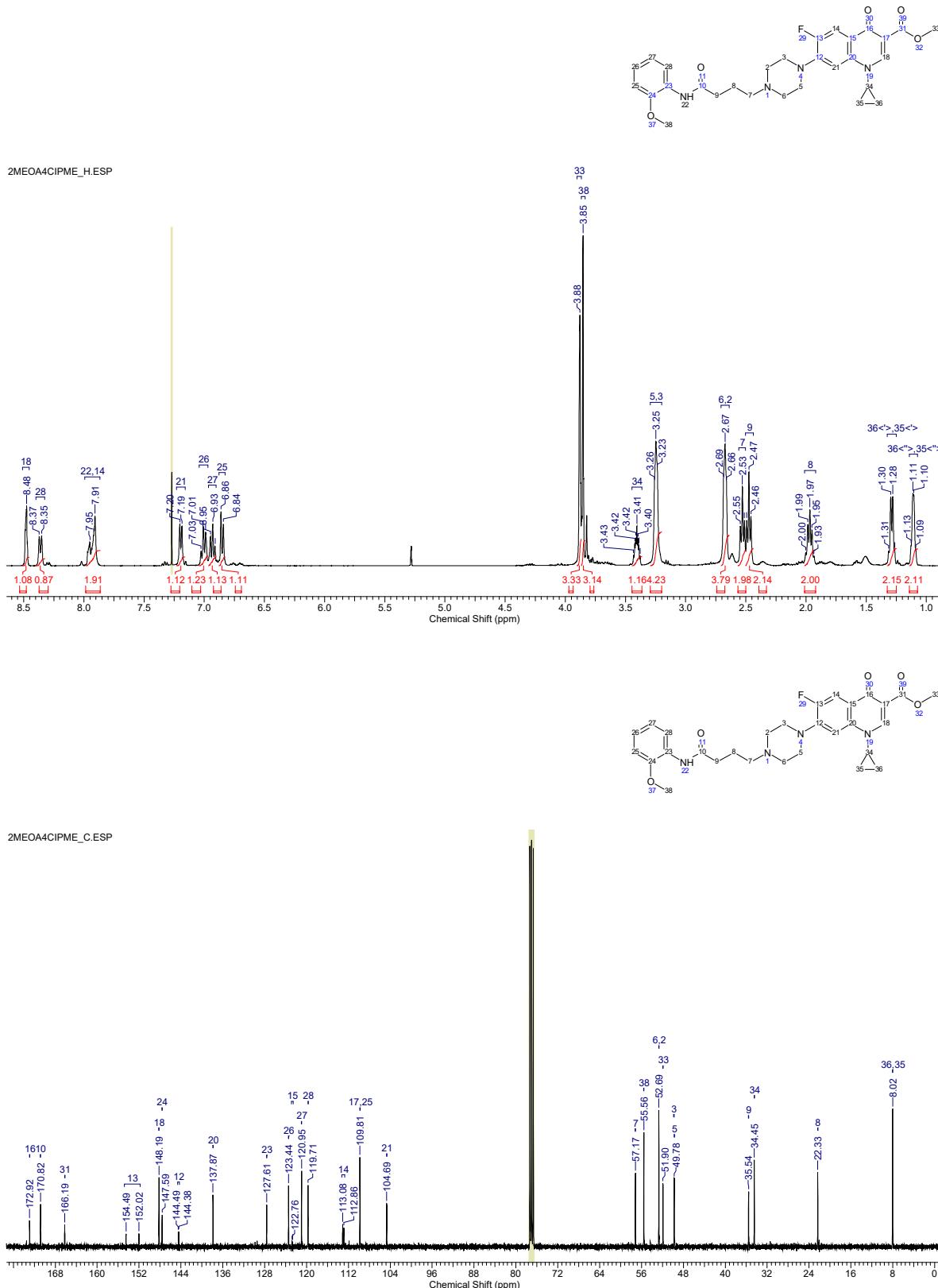
3MEOA4BR\_C.ESP



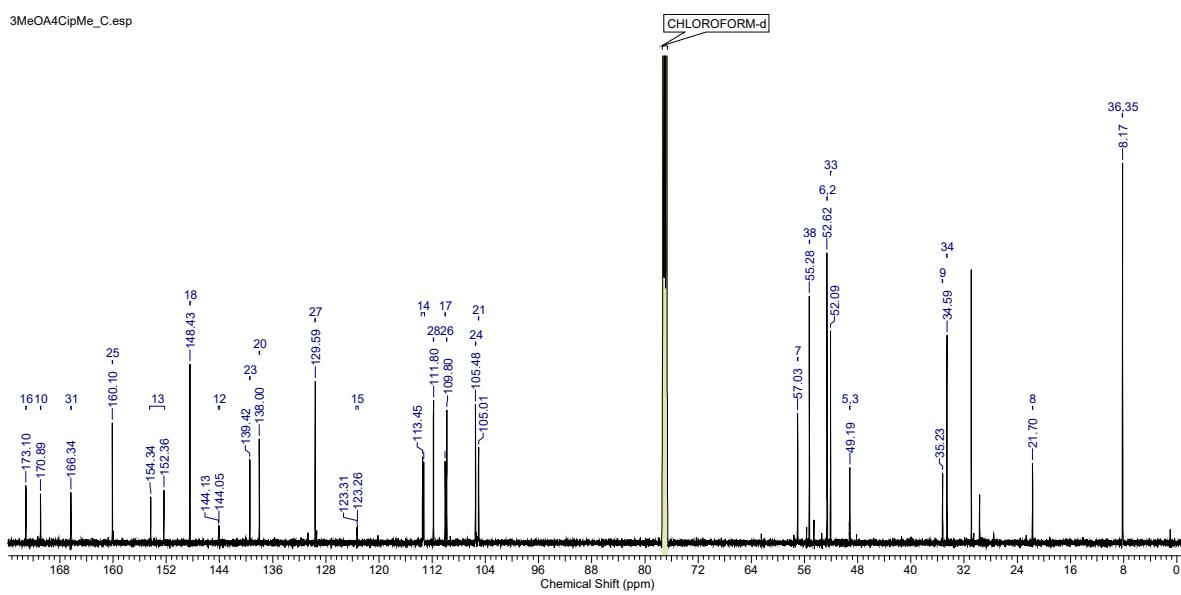
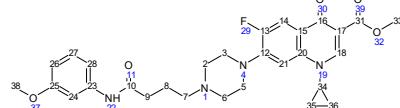
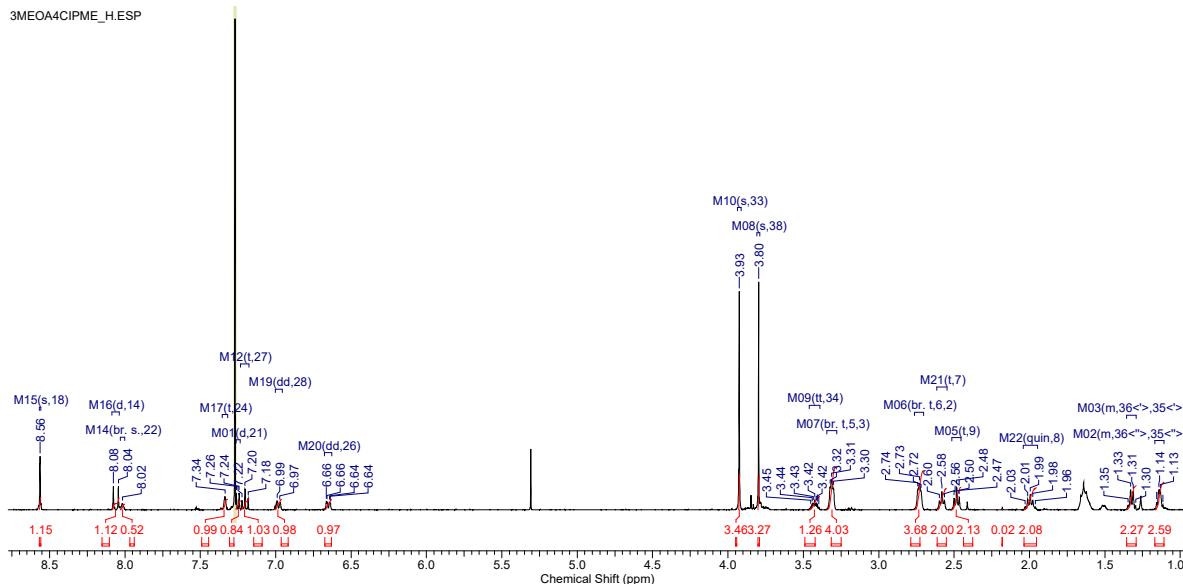
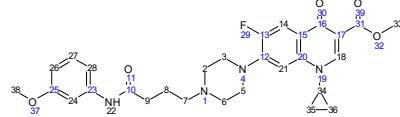
### 1.23 4-Azido-*N*-(3-methoxyphenyl)butanamide 140



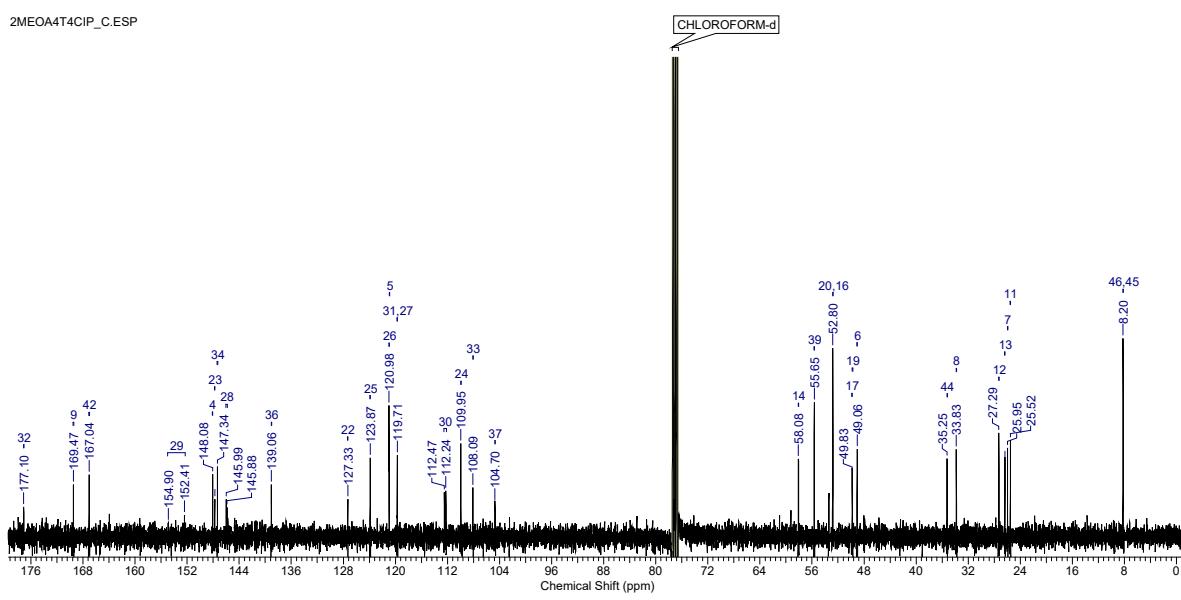
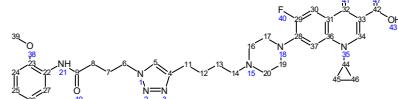
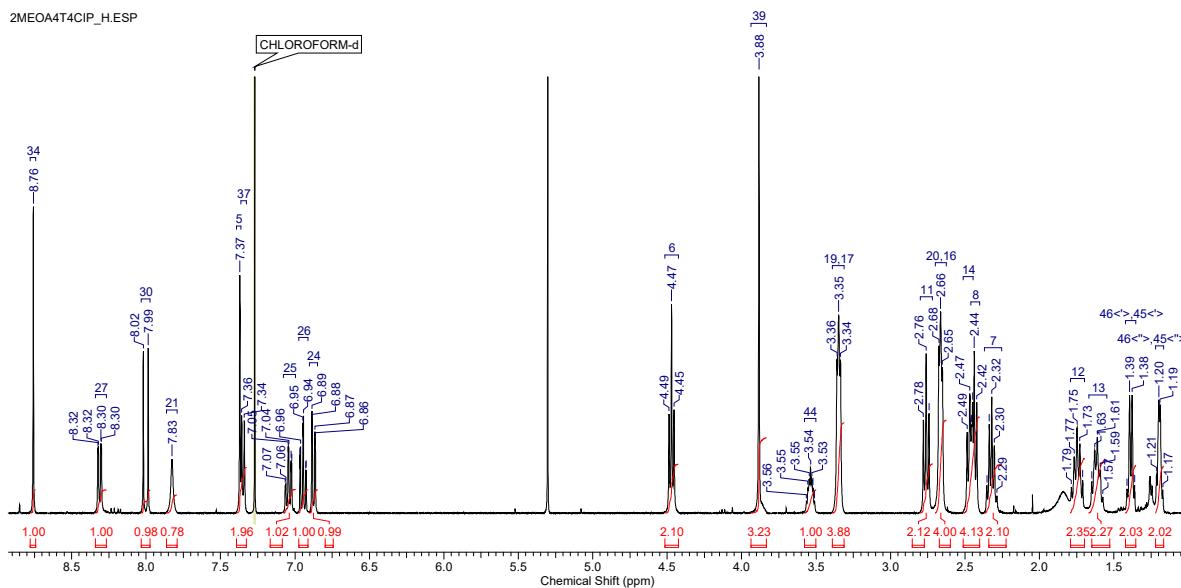
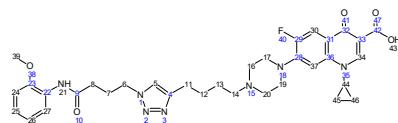
**1.24 Methyl 1-cyclopropyl-6-fluoro-7-(4-((2-methoxyphenyl)amino)-4-oxobutyl)-piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylate 141**



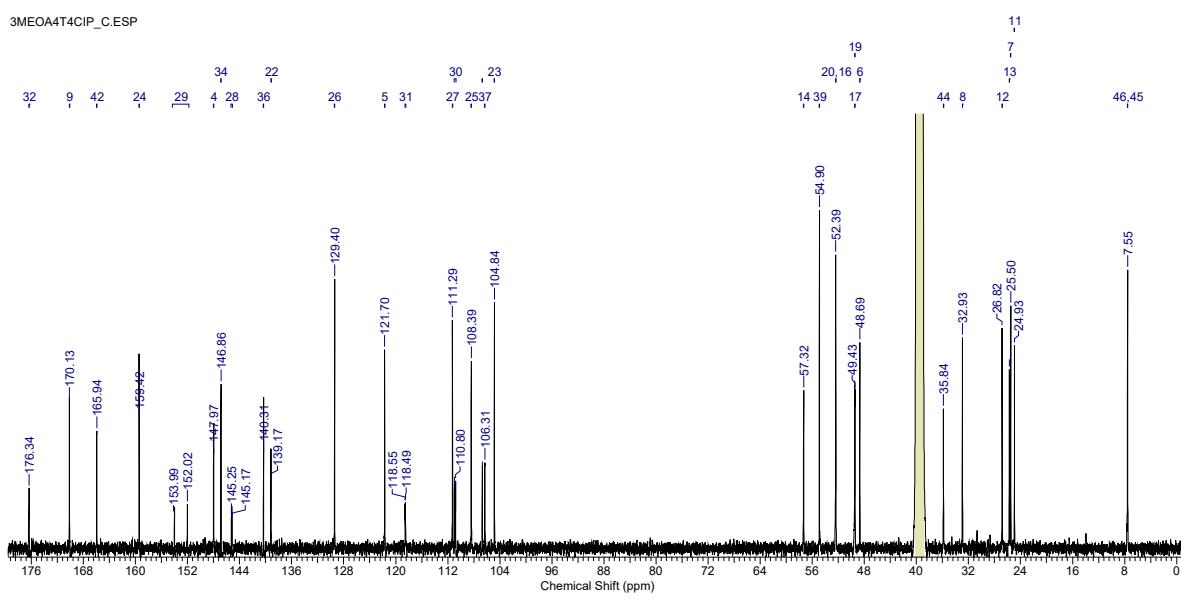
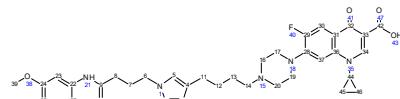
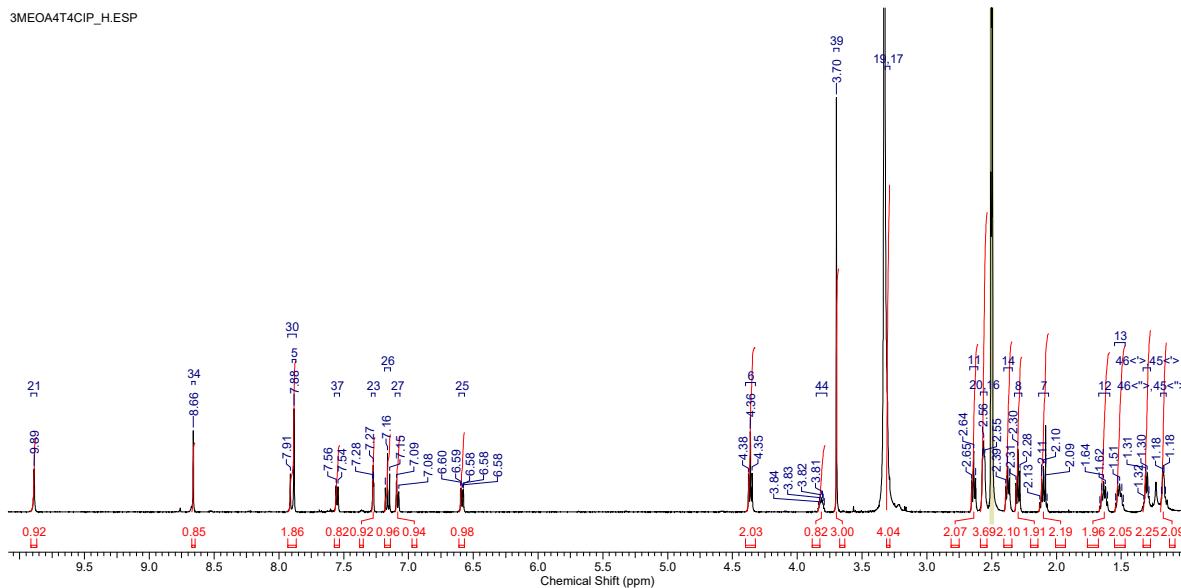
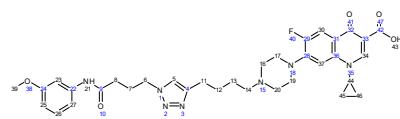
1.25 Methyl 1-cyclopropyl-6-fluoro-7-(4-(4-((3-methoxyphenyl)amino)-4-oxobutyl)-piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylate 142



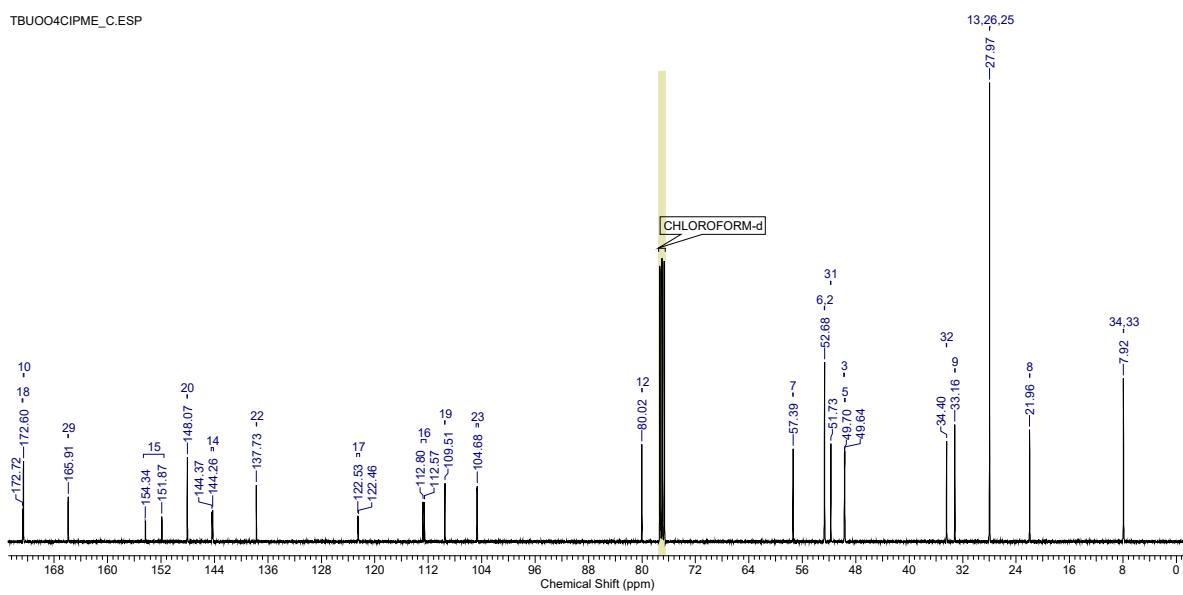
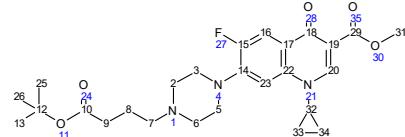
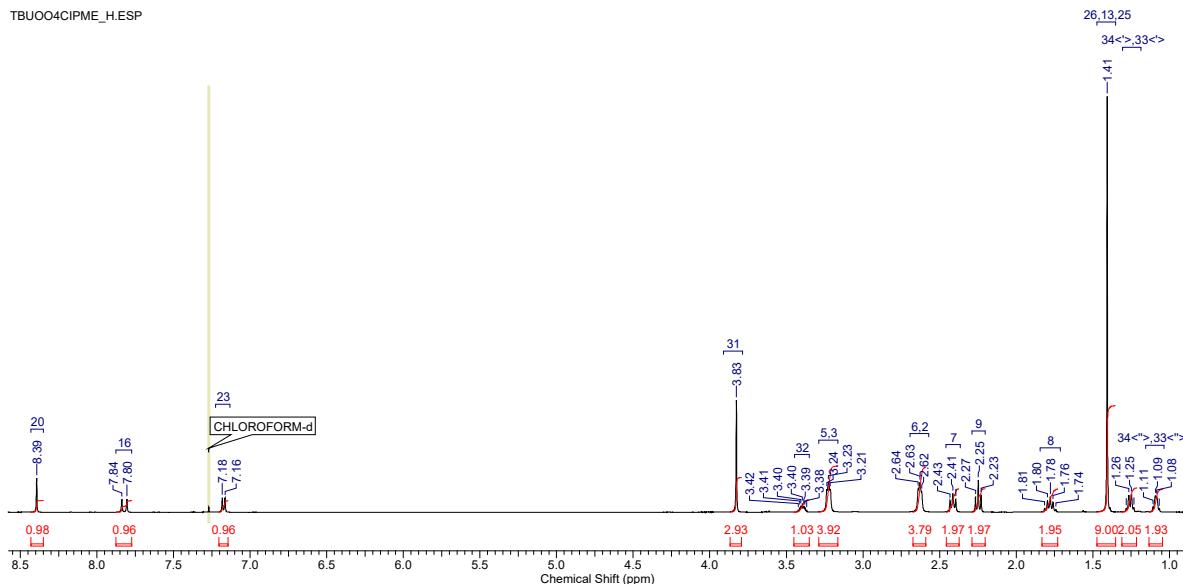
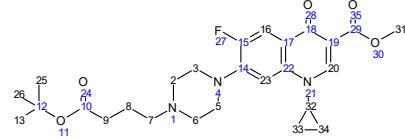
1.26 1-Cyclopropyl-6-fluoro-7-(4-(1-(4-((2-methoxyphenyl)amino)-4-oxobutyl)-1H-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid 143



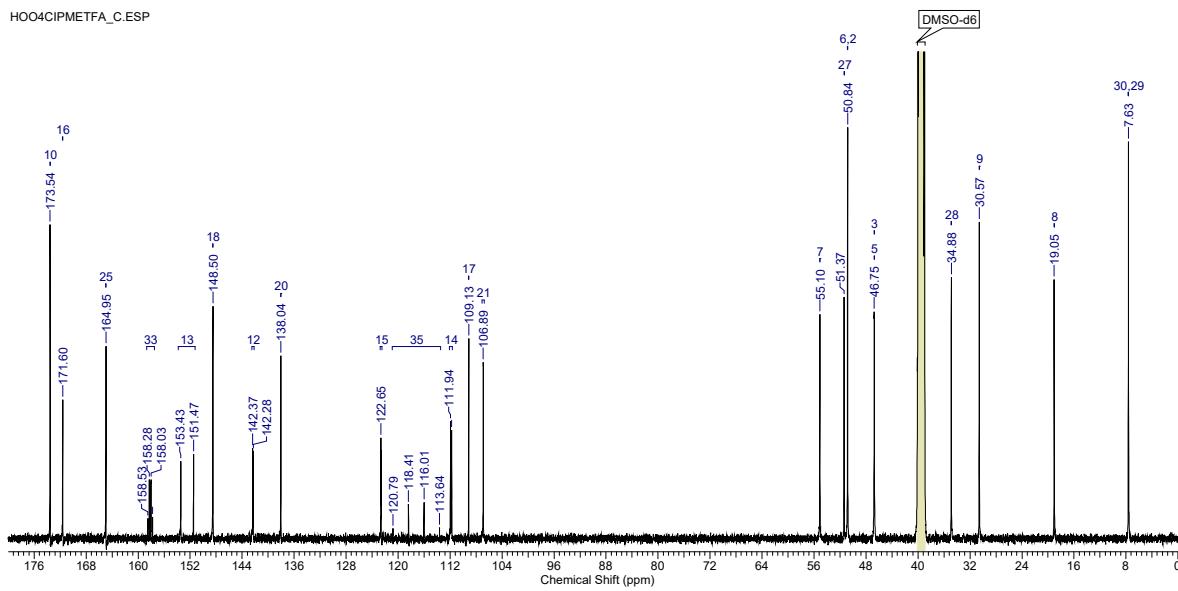
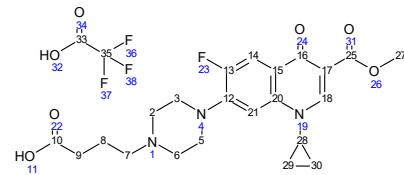
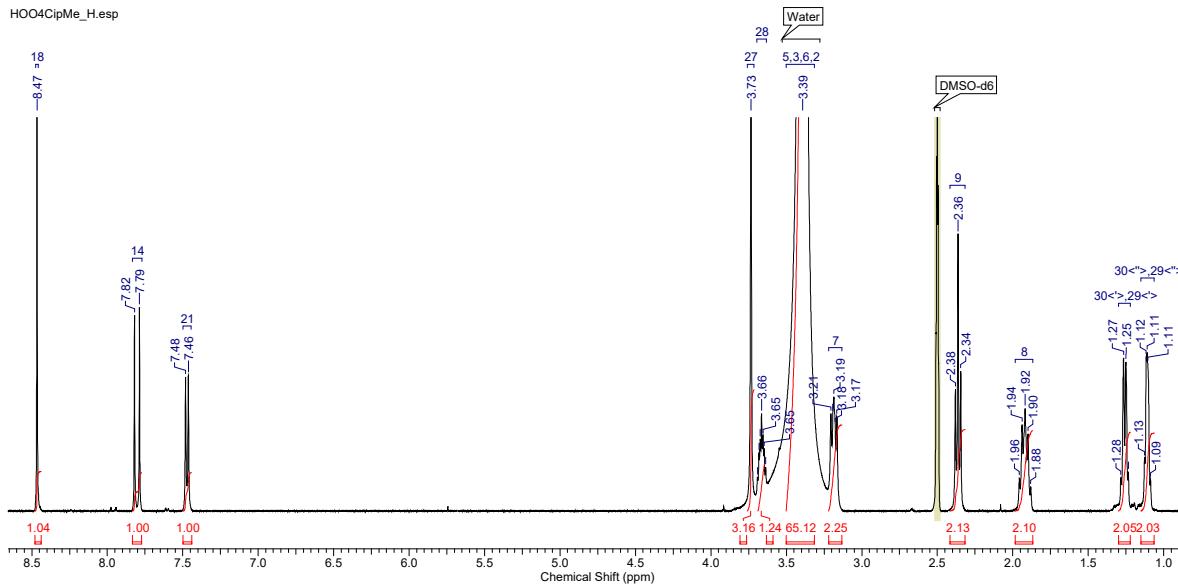
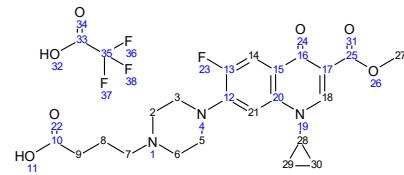
1.27 1-Cyclopropyl-6-fluoro-7-(4-(1-(4-((3-methoxyphenyl)amino)-4-oxobutyl)-1H-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid 144



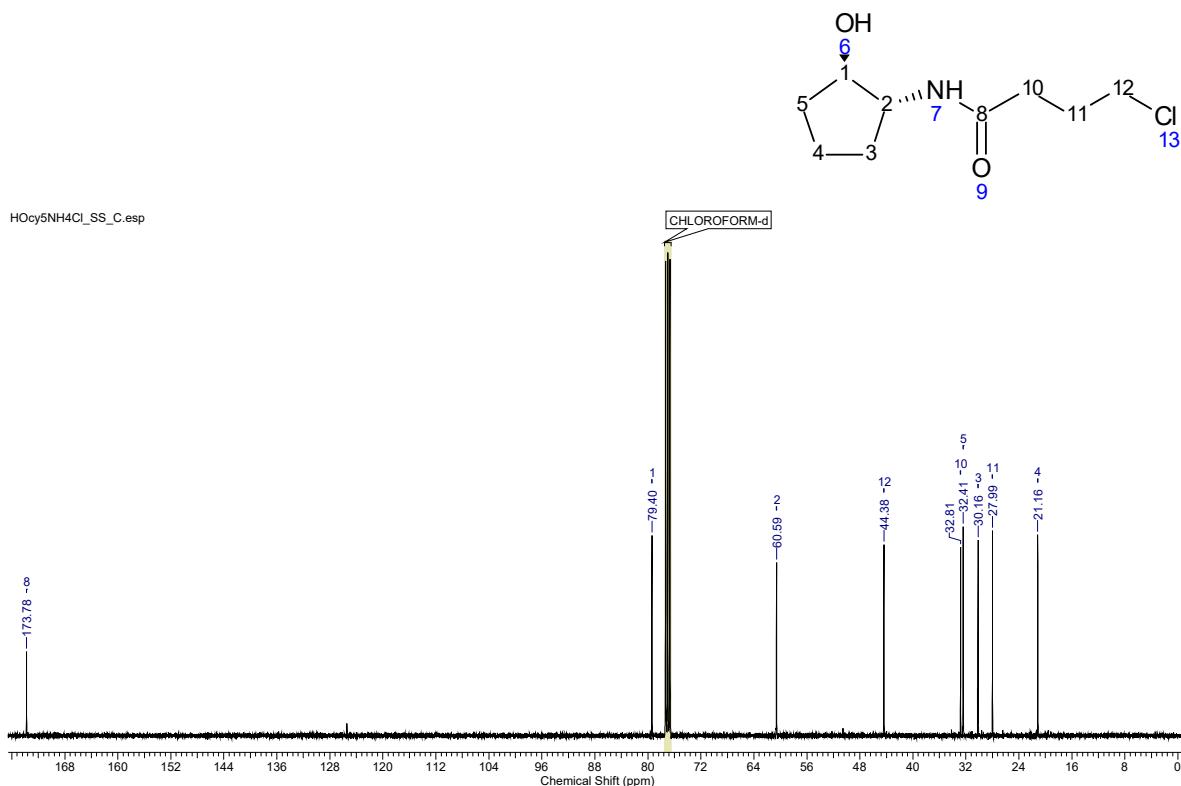
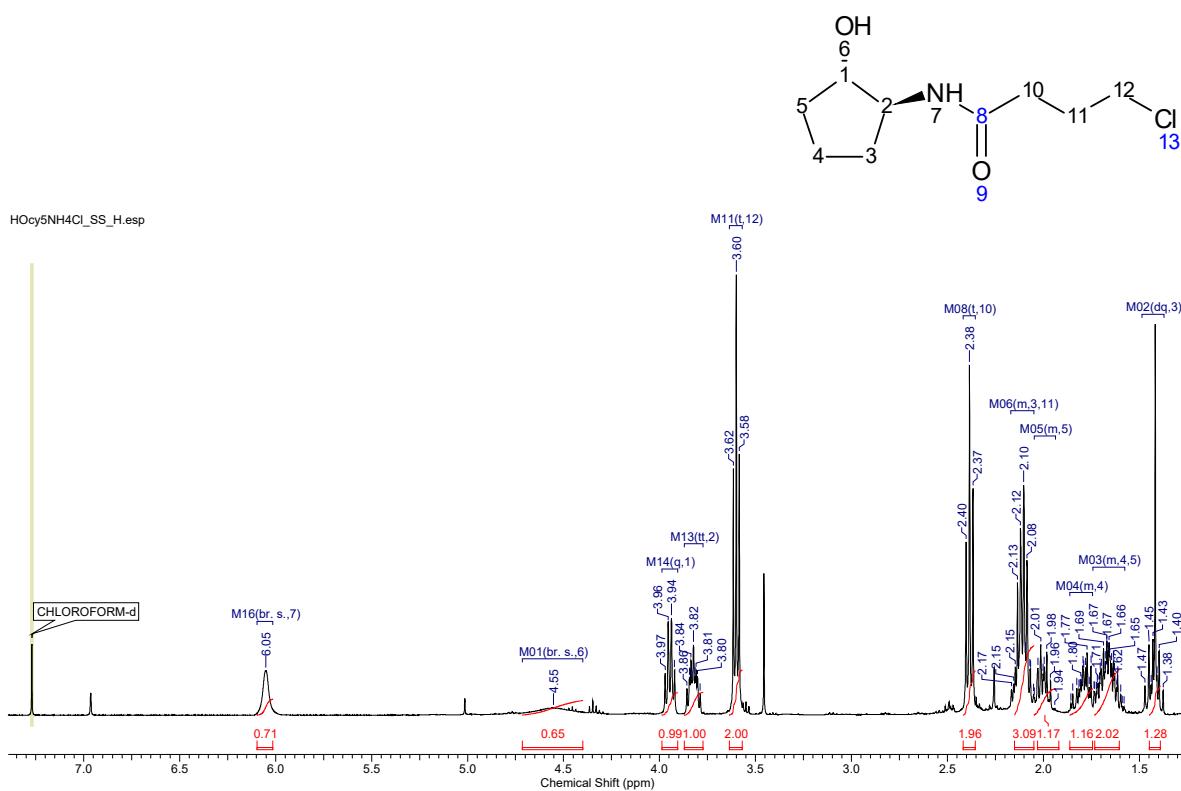
1.28 Methyl 7-(4-(*tert*-butoxy)-4-oxobutyl)piperazin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylate ?



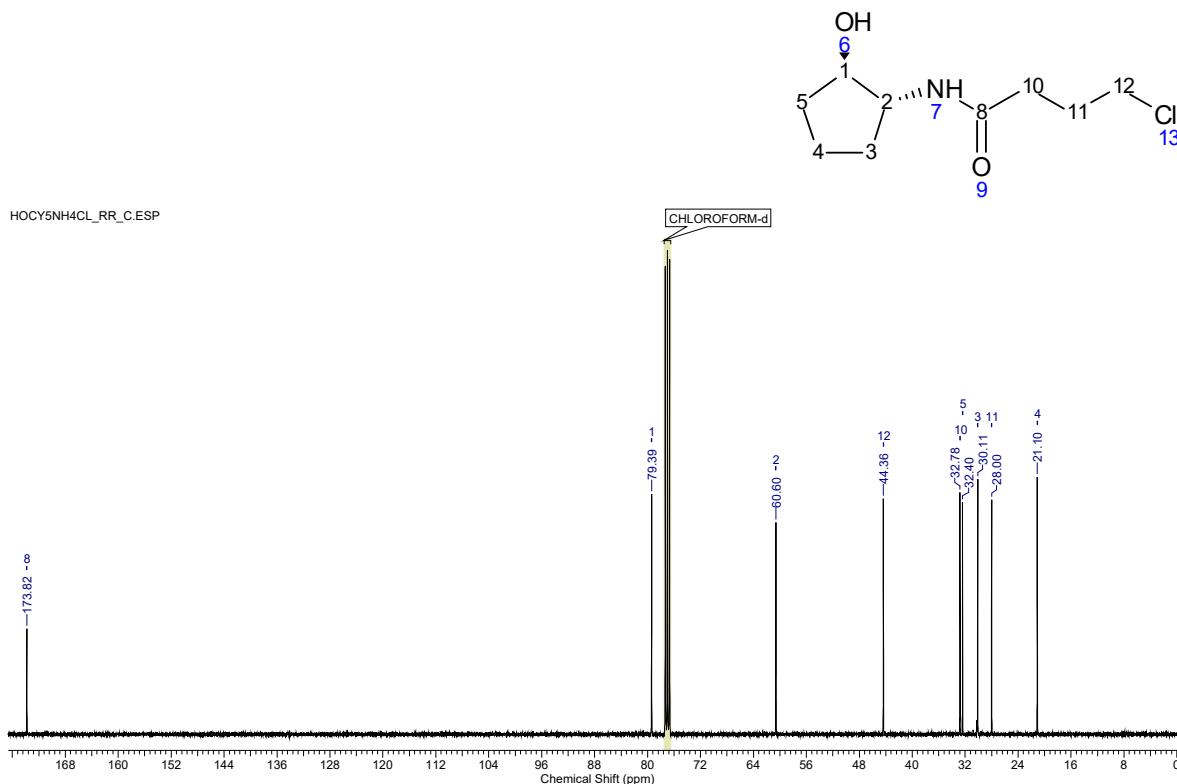
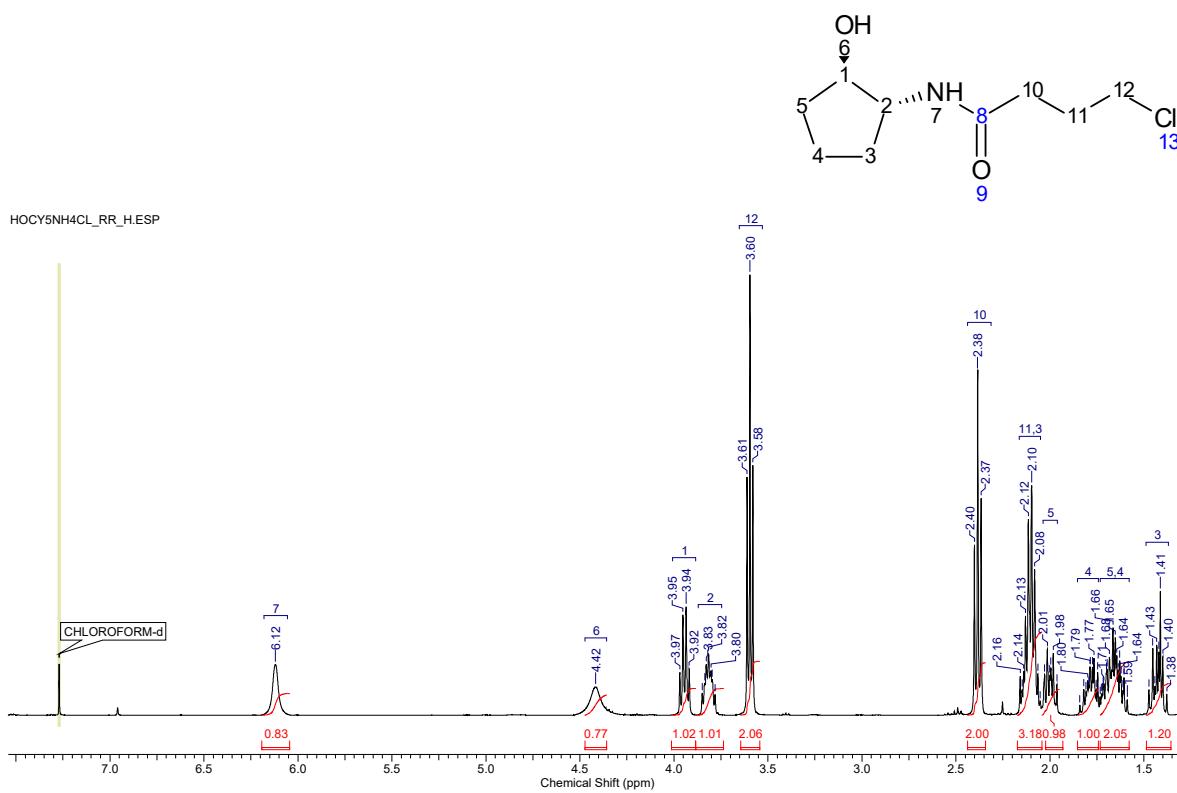
1.29 4-(4-(1-Cyclopropyl-6-fluoro-3-(methoxycarbonyl)-4-oxo-1,4-dihydroquinolin-7-yl)piperazin-1-yl)butanoic acid, trifluoroacetic acid salt 146



1.30 4-Chloro-*N*-(*(1S,2S)*-2-hydroxycyclopentyl)butanamide 164



1.31 4-Chloro-*N*-(*1R,2R*)-2-hydroxycyclopentyl)butanamide 165



1.32 4-Azido-*N*-((1*S*,2*S*)-2-((*tert*-butyldimethylsilyl)oxy)cyclopentyl)butanamide  
166

TBS0cy5NH4N3\_SS\_H.pdf

TBS0cy5NH4N3\_SS\_C.pdf

1.33 4-Azido-*N*-((1*S*,2*S*)-2-hydroxycyclopentyl)butanamide 167

H0cy5NH4N3\_SS\_H.pdf

H0cy5NH4N3\_SS\_C.pdf

1.34 4-Azido-*N*-((1*R*,2*R*)-2-hydroxycyclopentyl)butanamide 168

:H0cy5NH4N3\_RR\_H.pdf

:H0cy5NH4N3\_RR\_C.pdf

1.35 Methyl 1-cyclopropyl-6-fluoro-7-(4-((1*S*,2*S*)-2-hydroxycyclopentyl)amino)-4-oxobutyl)piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylate 169

H0cy5NH4CipMe\_SS\_H.pdf

H0cy5NH4CipMe\_SS\_C.pdf

1.36 Methyl 1-cyclopropyl-6-fluoro-7-(4-((1*R*,2*R*)-2-hydroxycyclopentyl)amino)-4-oxobutyl)piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylate 170

H0cy5NH4CipMe\_RR\_H.pdf

H0cy5NH4CipMe\_RR\_C.pdf

1.37 Methyl (*S*)-1-cyclopropyl-6-fluoro-4-oxo-7-(4-(4-oxo-4-((2-oxocyclopentyl)amino)butyl)piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylate 171

0cy5NH4CipMe\_S\_H.pdf

0cy5NH4CipMe\_S\_C.pdf

1.38 7-(4-(1-(4-(((1*S*,2*S*)-2-((*tert*-butyldimethylsilyl)oxy)cyclopentyl)amino)-4-oxobutyl)-1*H*-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid 172

TBS0cy5NH4T4Cip\_SS\_H.pdf

TBS0cy5NH4T4Cip\_SS\_C.pdf

1.39 1-Cyclopropyl-6-fluoro-7-(4-(4-(1-(4-(((1*S*,2*S*)-2-hydroxycyclopentyl)amino)-4-oxobutyl)-1*H*-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-4-oxo-1,4-dihydroquino-line-3-carboxylic acid 173

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H0cy5NH4T4Cip\_SS\_C.pdf

1.40 1-Cyclopropyl-6-fluoro-7-(4-(4-(1-(4-(((1*R*,2*R*)-2-hydroxycyclopentyl)amino)-4-oxobutyl)-1*H*-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-4-oxo-1,4-dihydroquino-line-3-carboxylic acid 174

H0cy5NH4T4Cip\_RR\_H.pdf

H0cy5NH4T4Cip\_RR\_C.pdf

1.41 4-Chloro-*N*-((*trans*)-2-hydroxycyclohexyl)butanamide 158

H0cy6NH4Cl\_H.pdf

H0cy6NH4Cl\_C.pdf

1.42 4-Azido-*N*-((*trans*)-2-hydroxycyclohexyl)butanamide 159

H0cy6NH4N3\_H.pdf

H0cy6NH4N3\_C.pdf

1.43 Methyl 1-cyclopropyl-6-fluoro-7-(4-((*trans*)-2-hydroxycyclohexyl)amino)-4-oxobutyl)piperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylate 160

H0cy6NH4CipMe\_H.pdf

H0cy6NH4CipMe\_C.pdf

1.44 Methyl 1-cyclopropyl-6-fluoro-4-oxo-7-(4-(4-oxo-4-((2-oxocyclohexyl)amino)-butyl)piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylate 161

0cy6NH4CipMe\_H.pdf

0cy6NH4CipMe\_C.pdf

1.45 1-Cyclopropyl-6-fluoro-7-(4-(1-(4-((*trans*)-2-hydroxycyclohexyl)amino)-4-oxobutyl)-1H-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-4-oxo-1,4-dihydroquino-line-3-carboxylic acid 162

H0cy6NH4T4Cip\_H.pdf

H0cy6NH4T4Cip\_C.pdf

1.46 1-Cyclopropyl-6-fluoro-4-oxo-7-(4-(4-(1-(4-oxo-4-((2-oxocyclohexyl)amino)butyl)-1H-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid 163

0cy6NH4T4Cip\_H.pdf

0cy6NH4T4Cip\_C.pdf