

Supporting Information

Multicomponent reaction for first synthesis of 2,2-dialkyl- and 2-alkyl-2-aryl-5,6-diaryl-2H-1,3-thiazines as scaffolds for various 3,4-dihydro-2H-1,3-thiazine derivatives

Fabian Brockmeyer, Robin Schoemaker, Marc Schmidtman and Jürgen Martens*

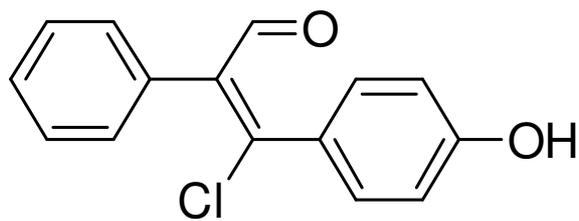
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9–11, 26111 Oldenburg, Germany

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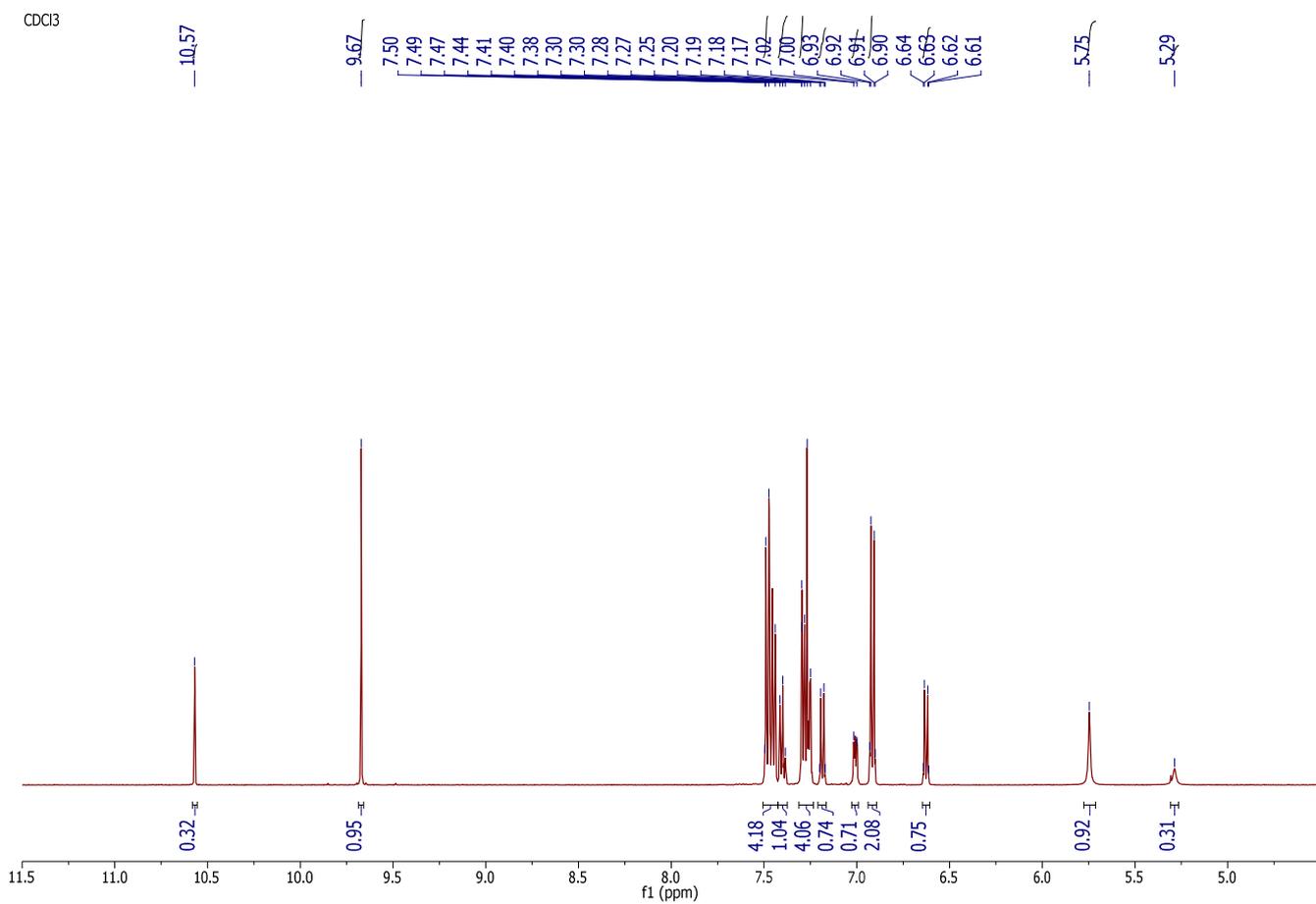
Homepage: <http://www.martens.chemie.uni-oldenburg.de>

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(E)-1d



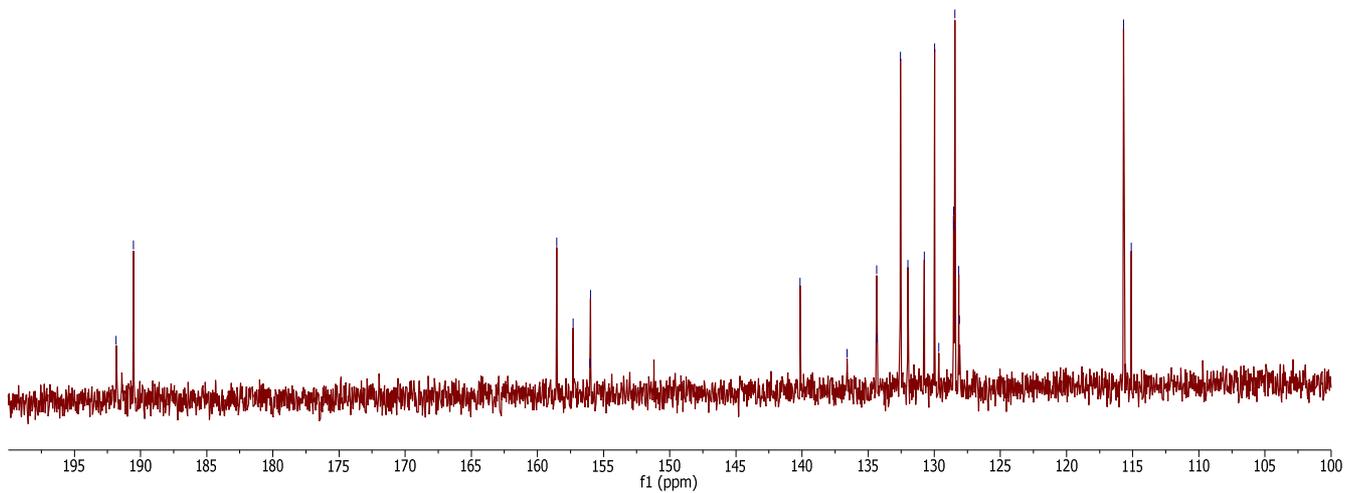
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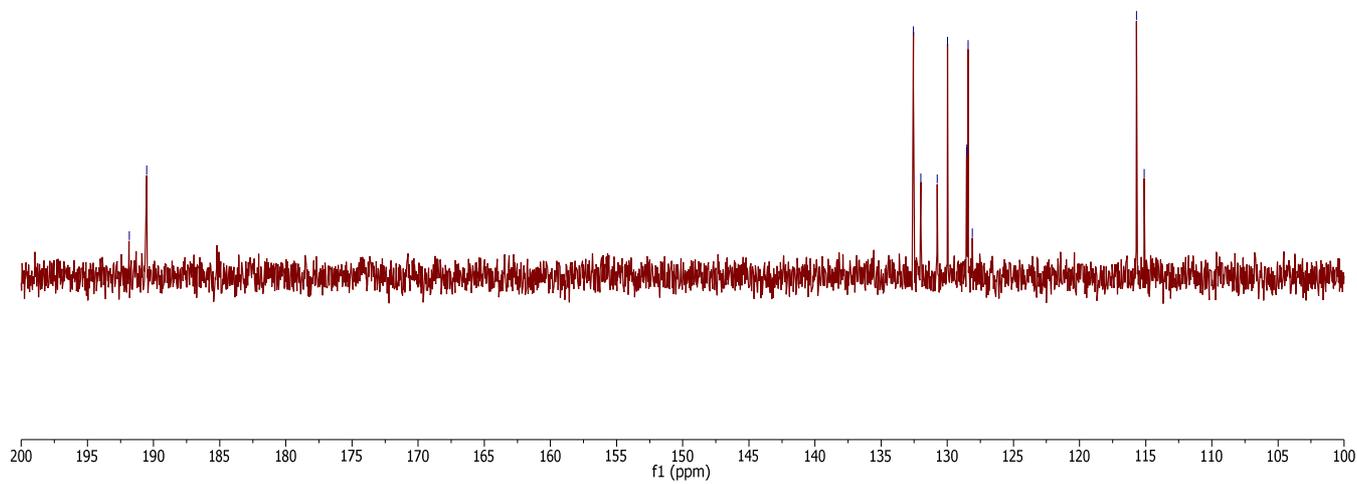


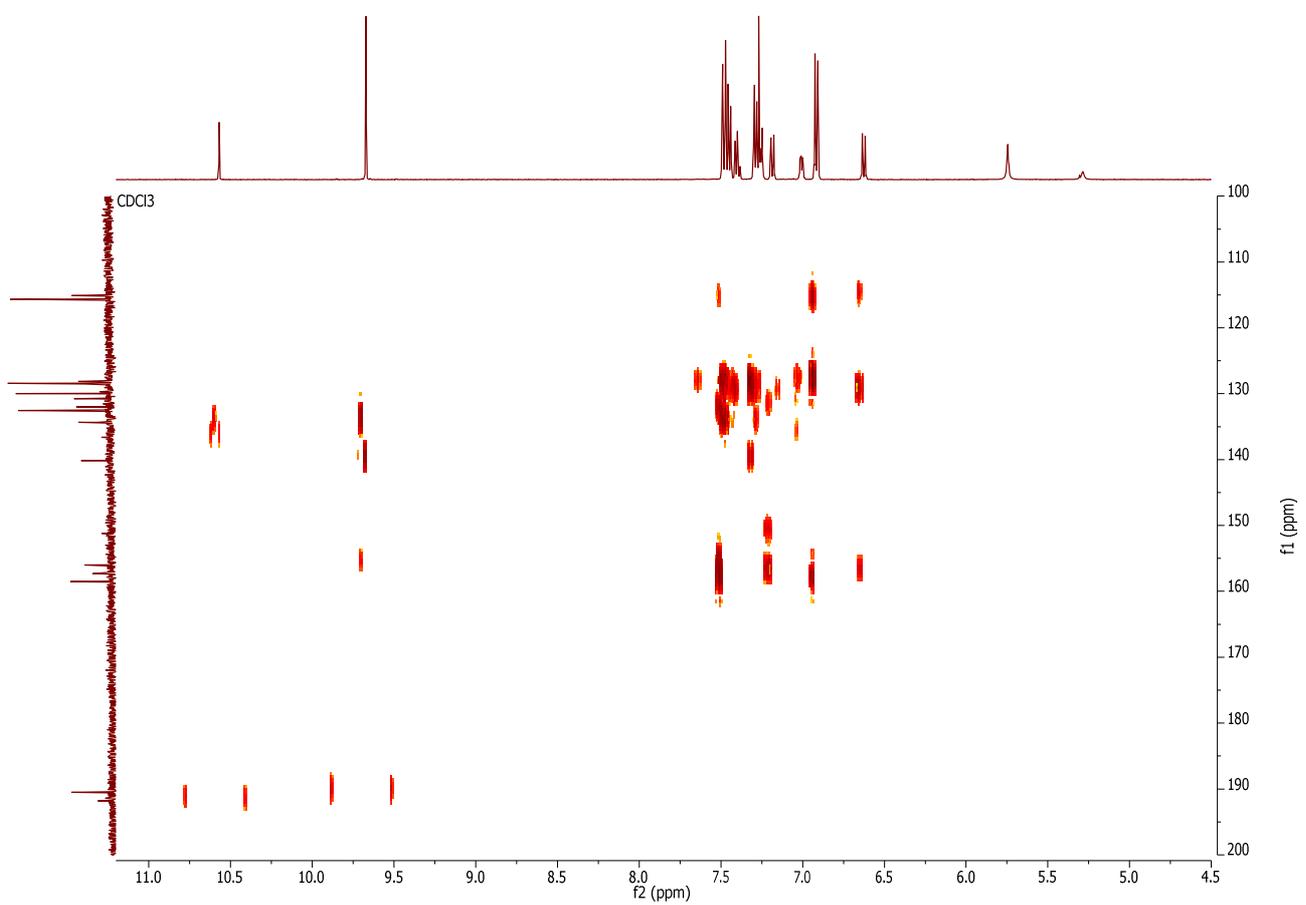
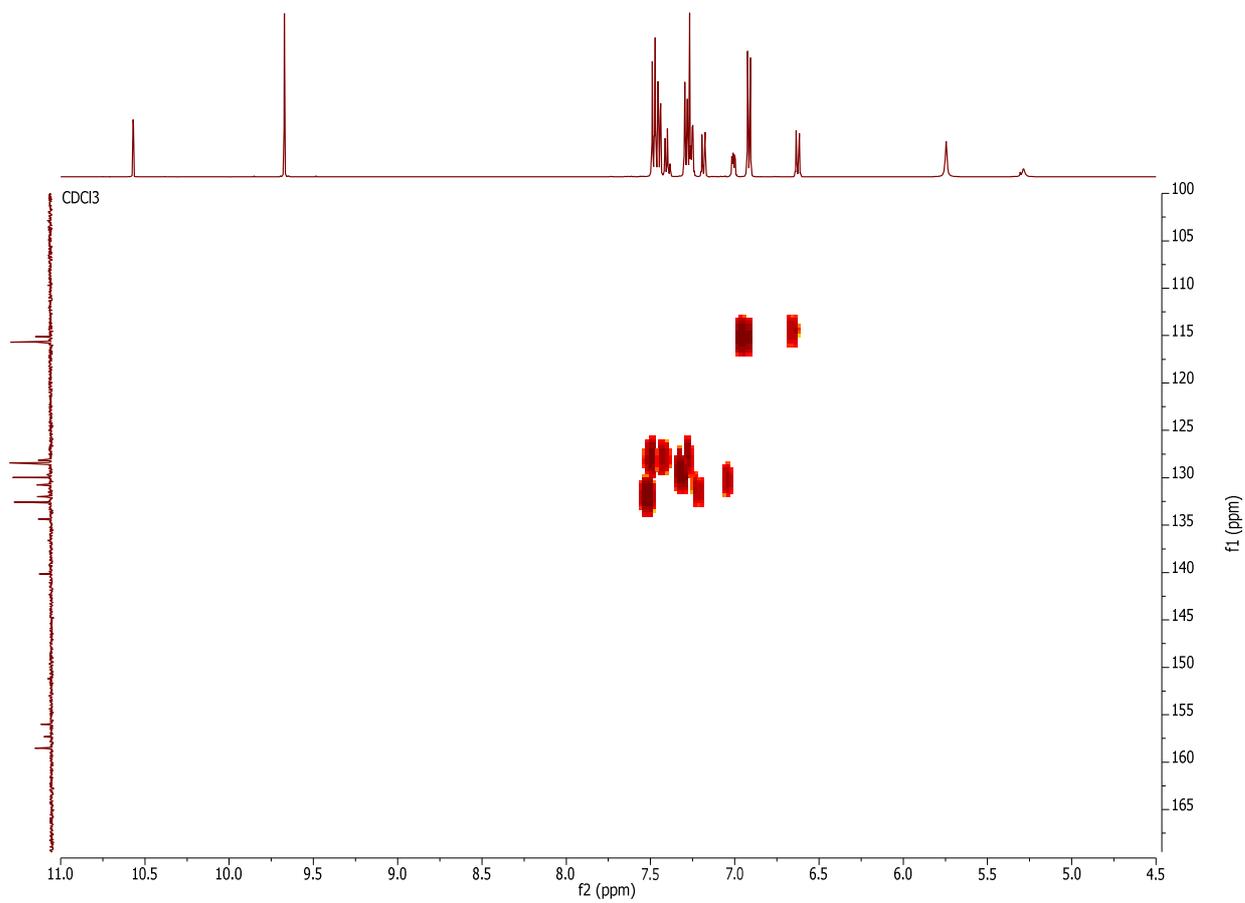
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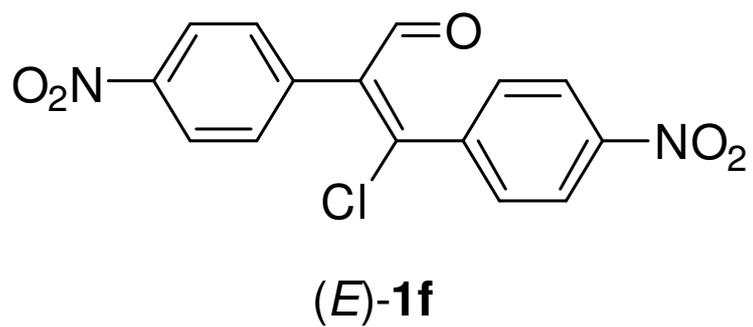
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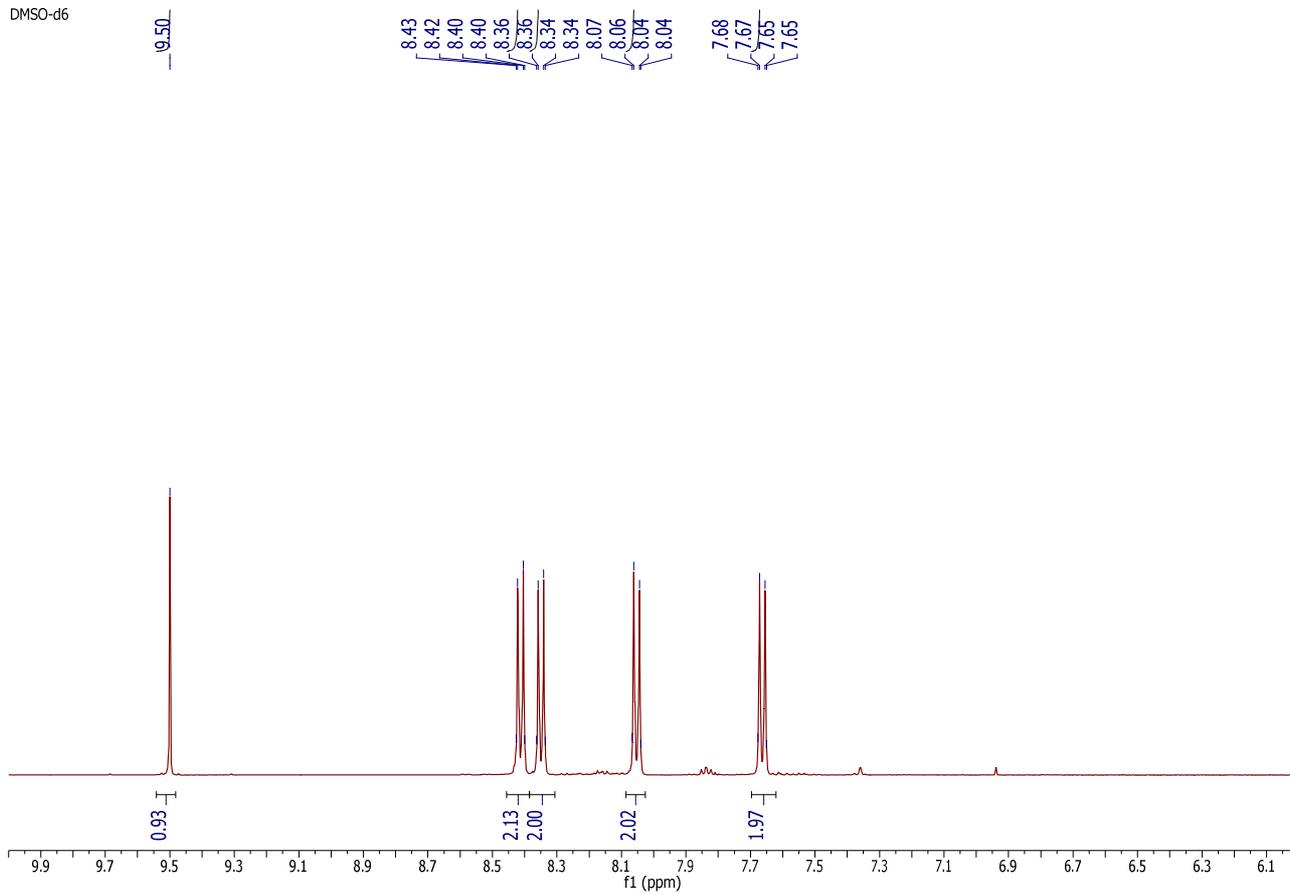
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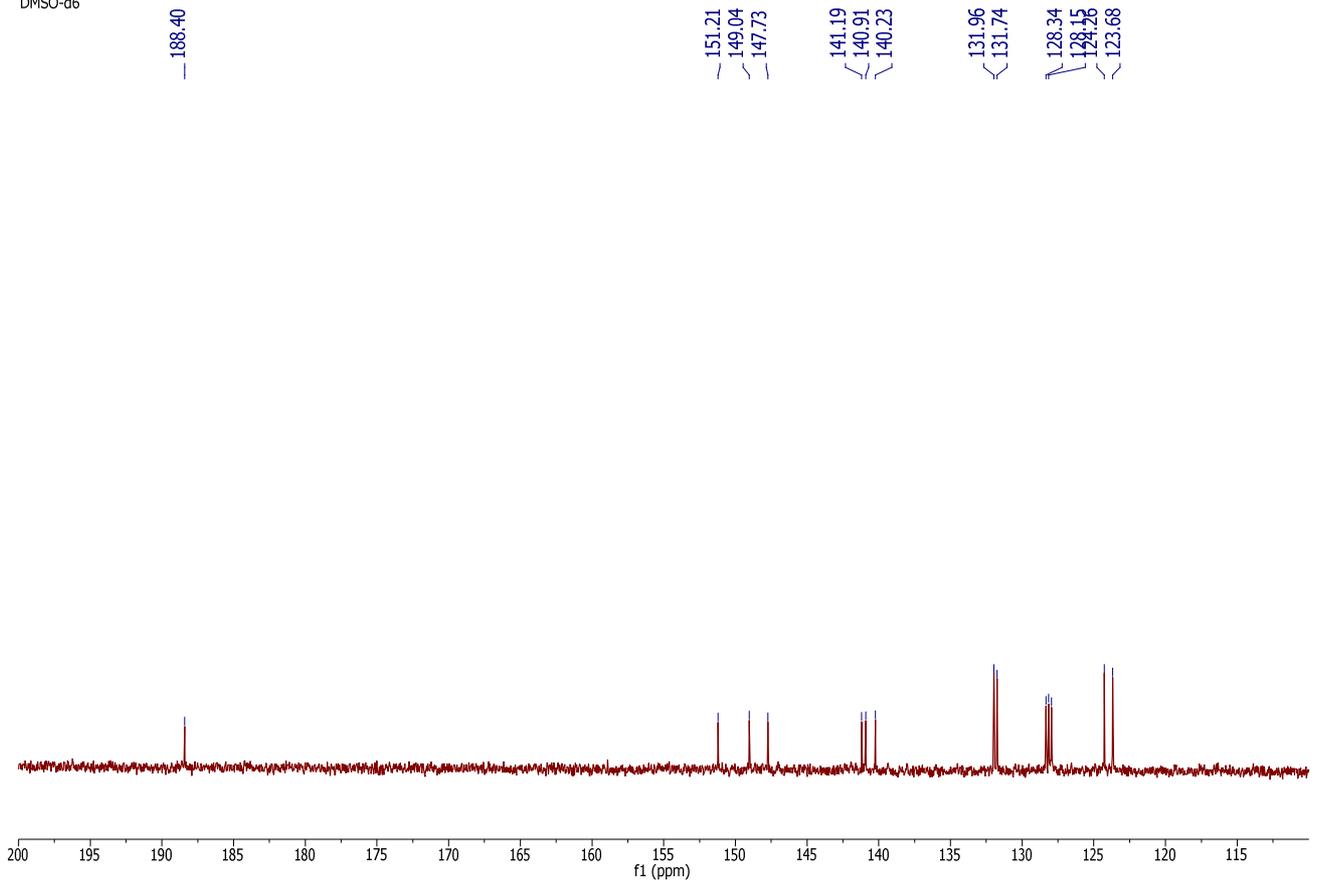




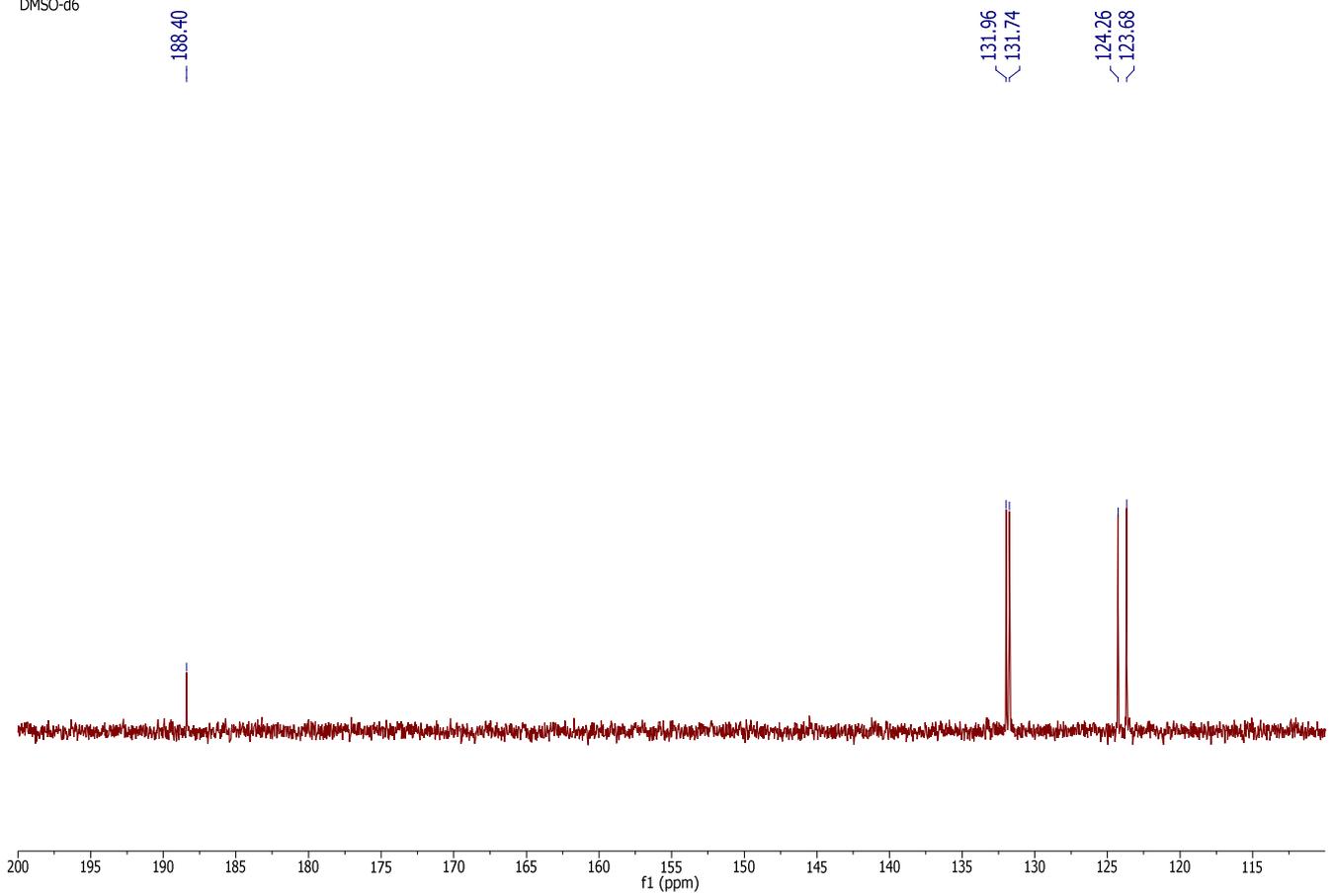
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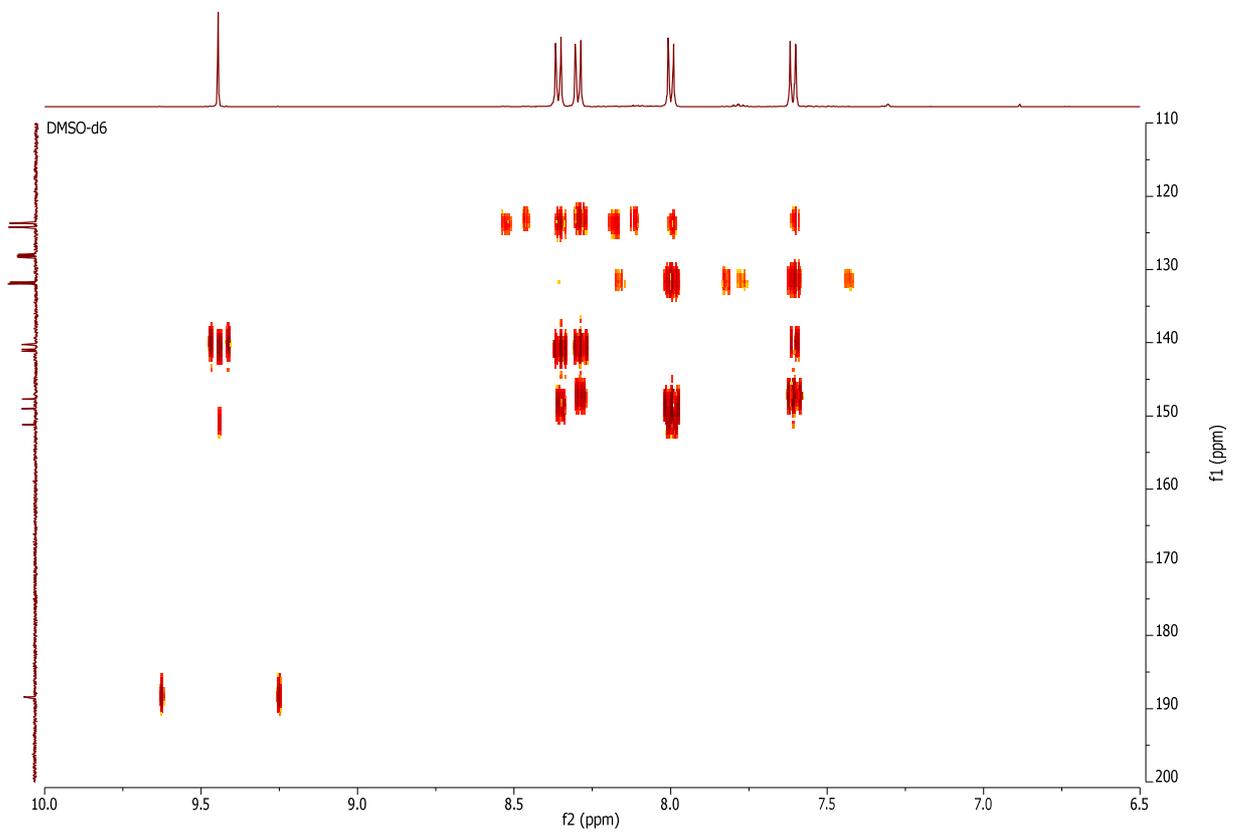
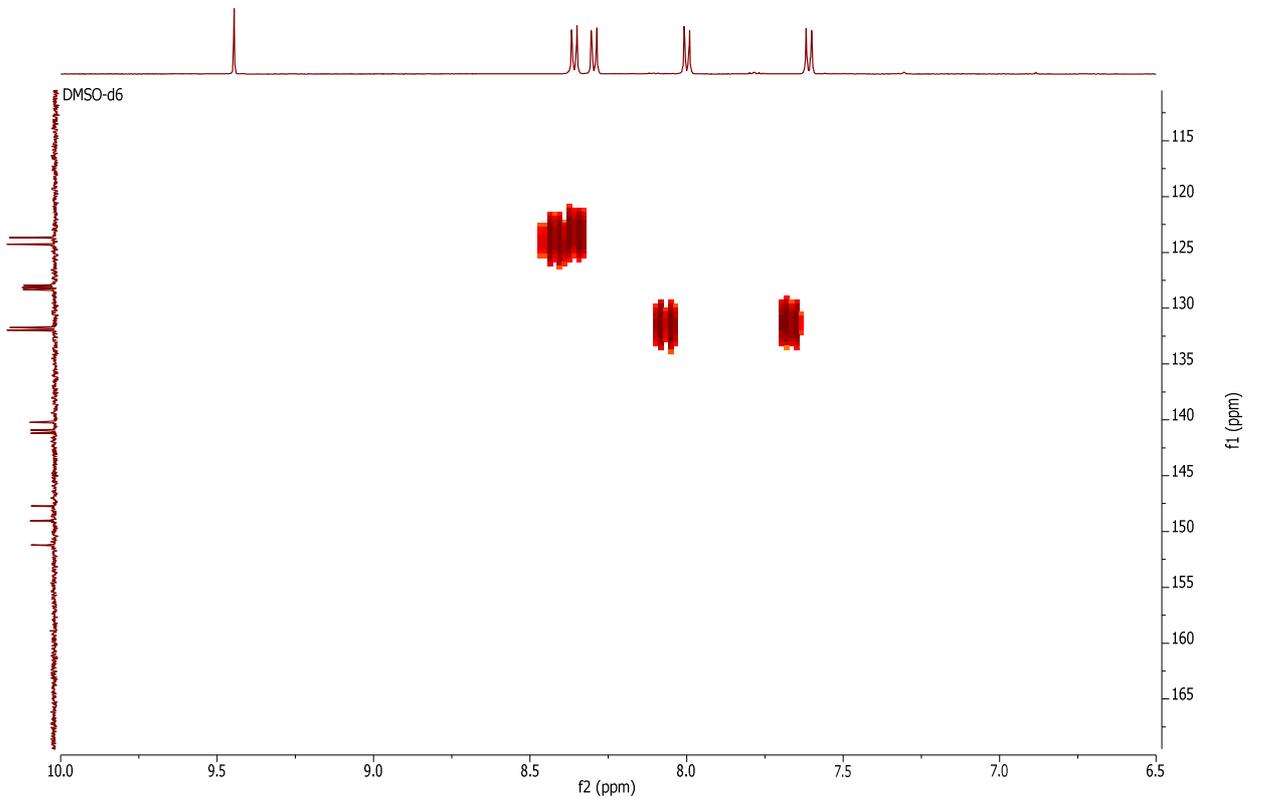


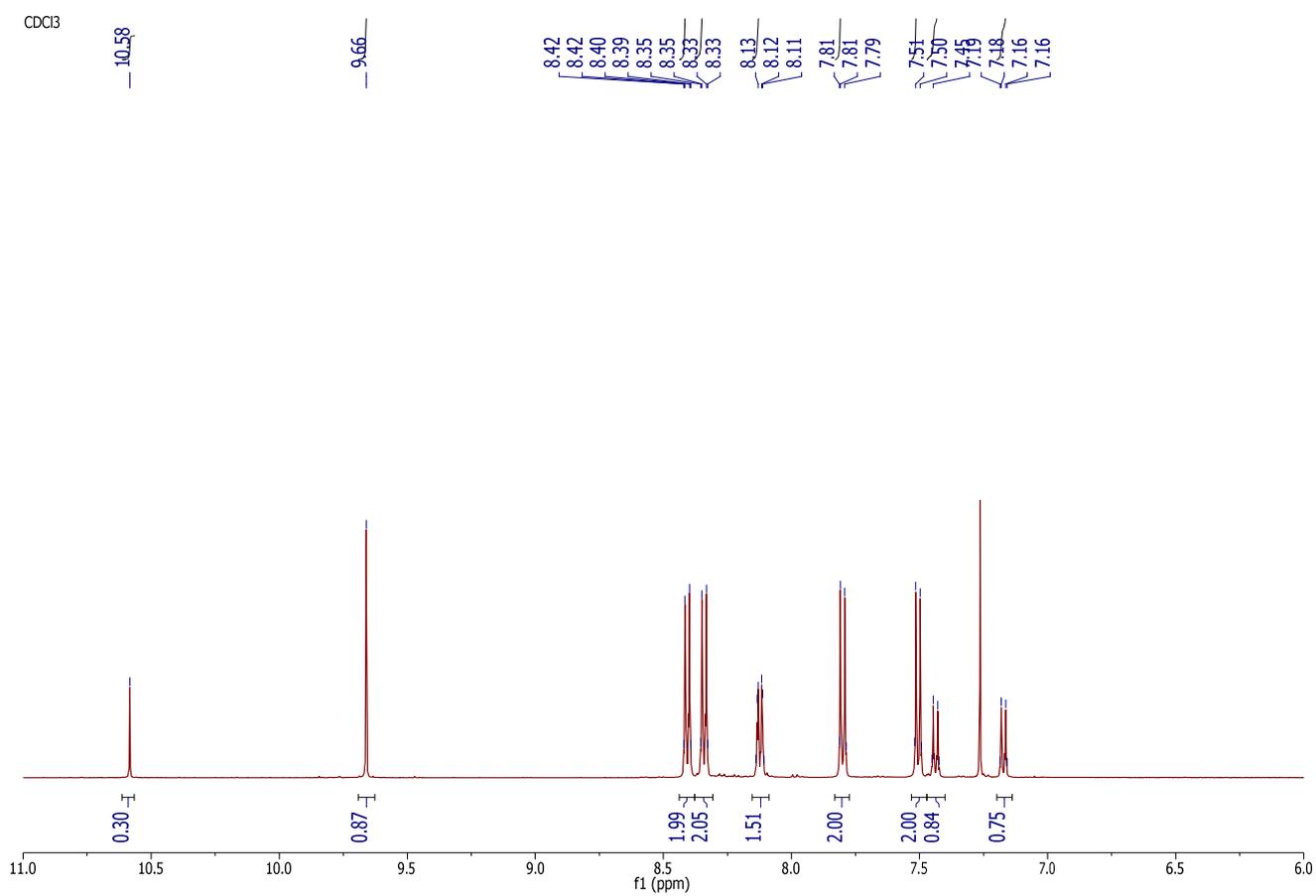
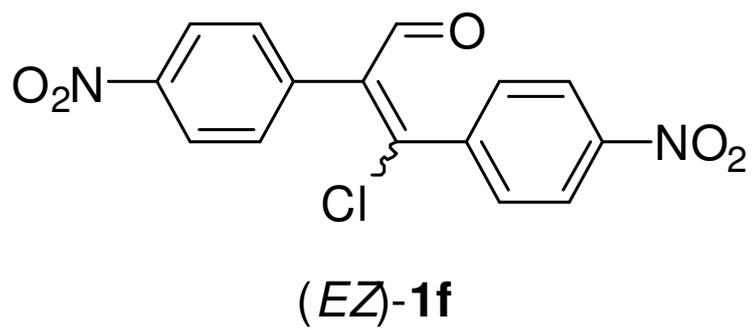
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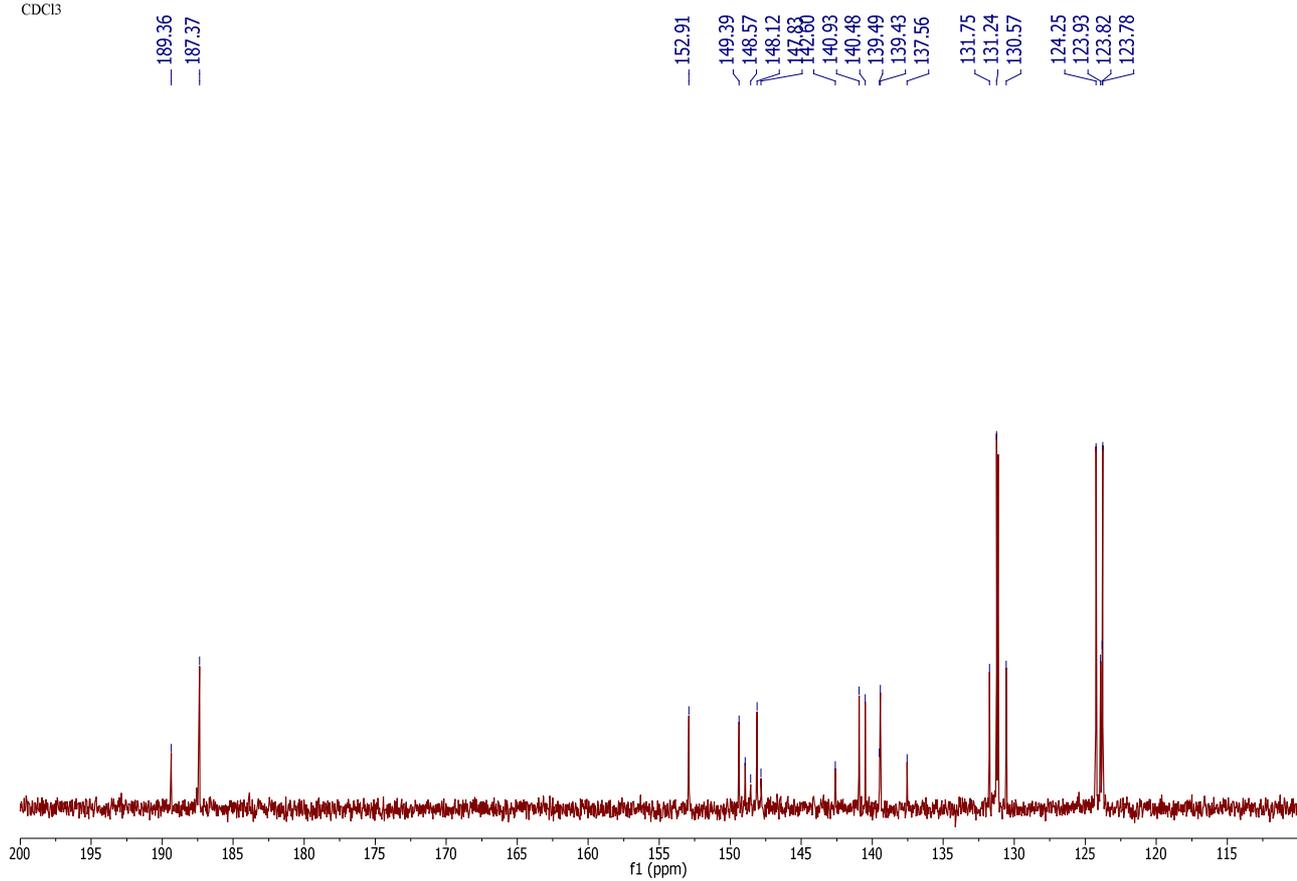
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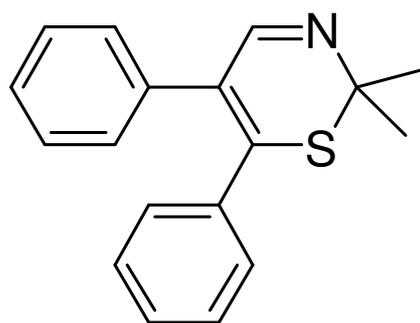




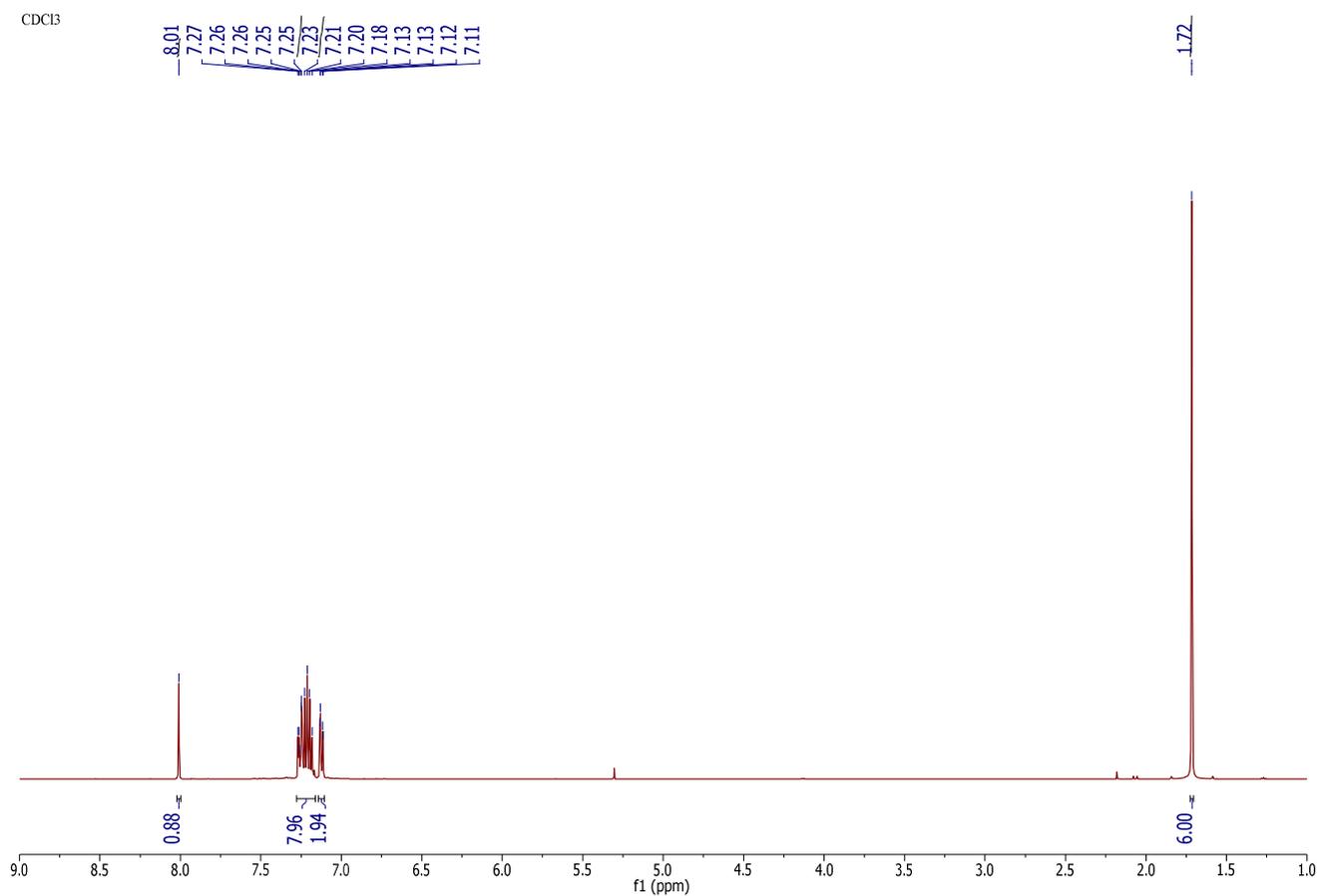


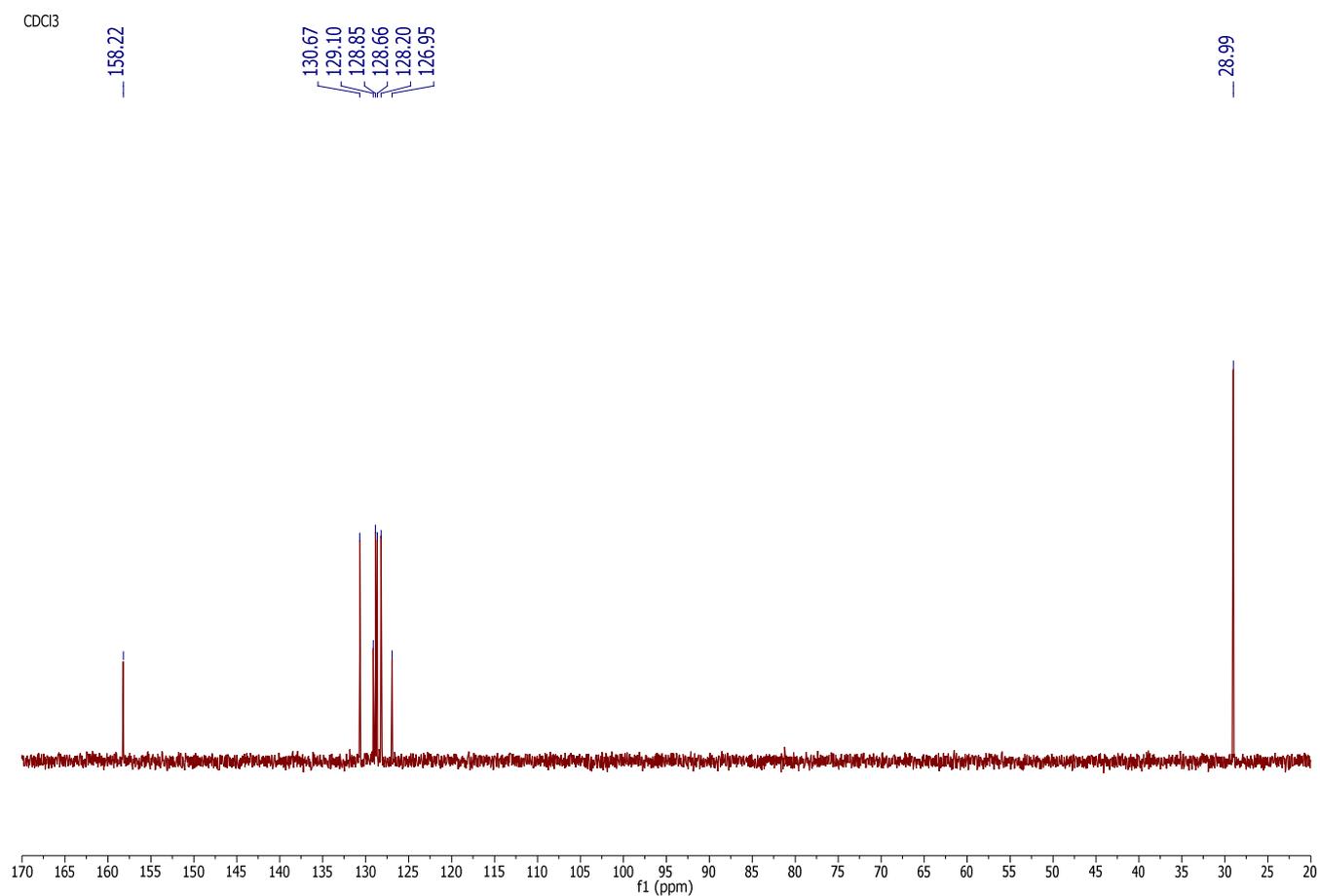
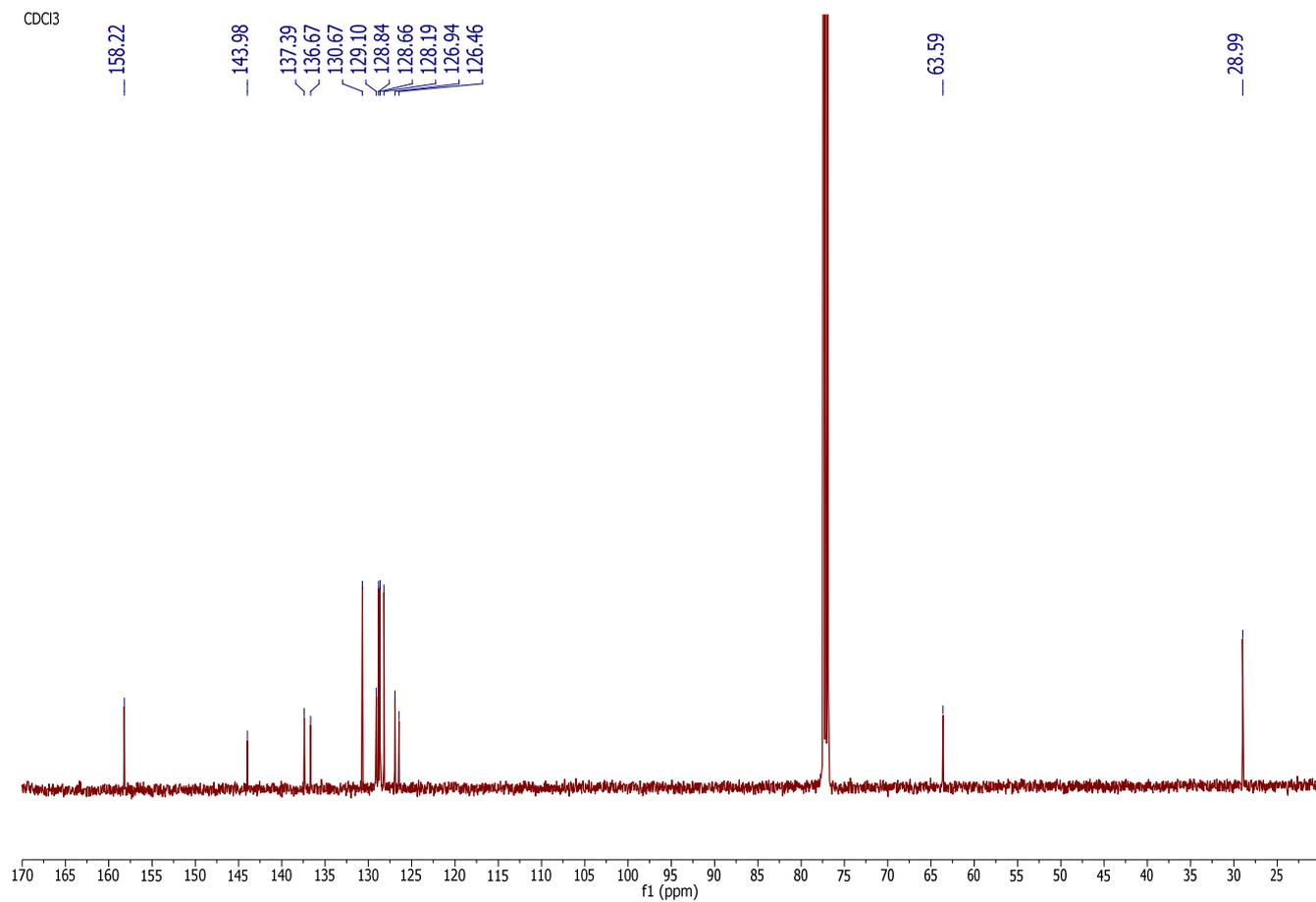
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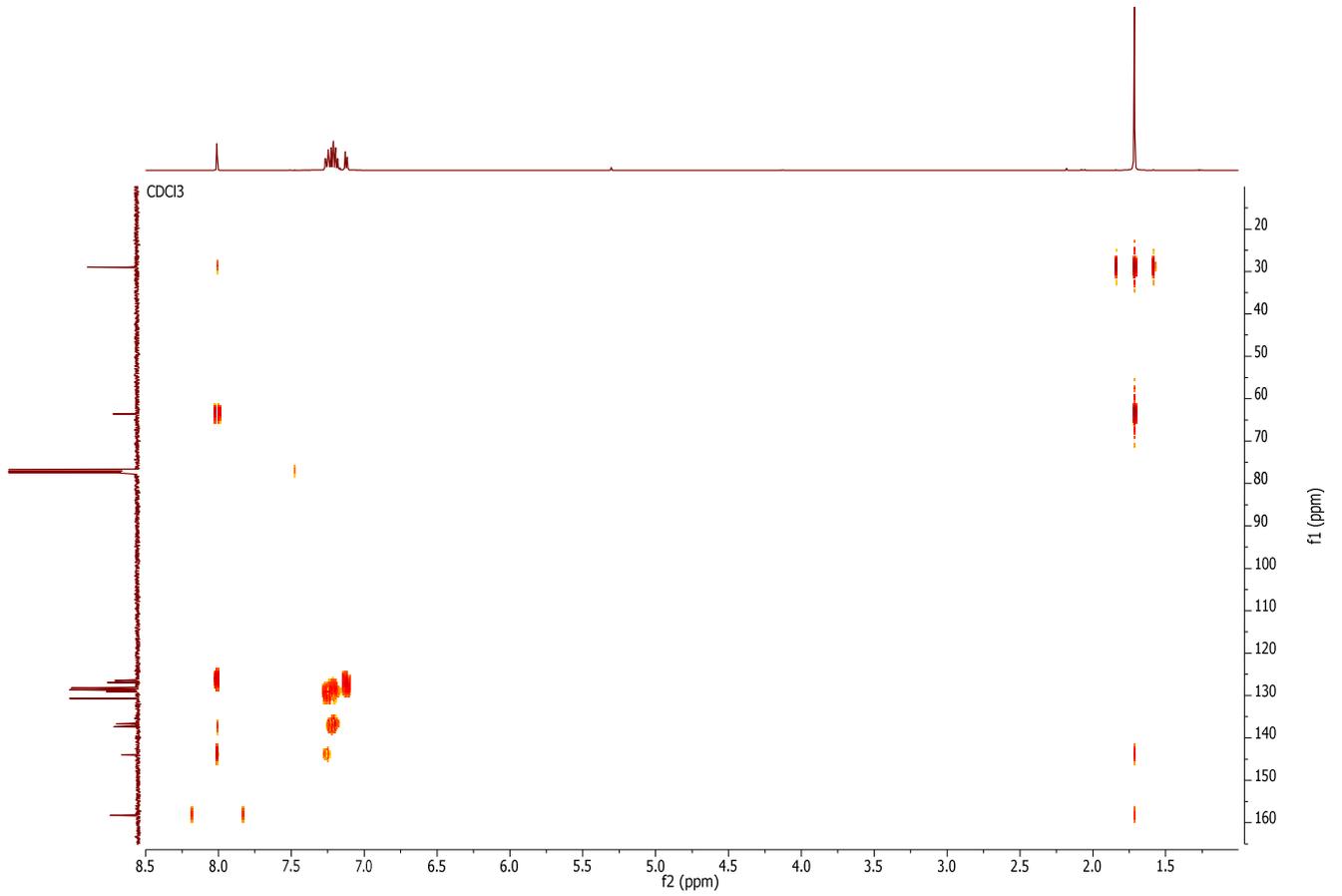
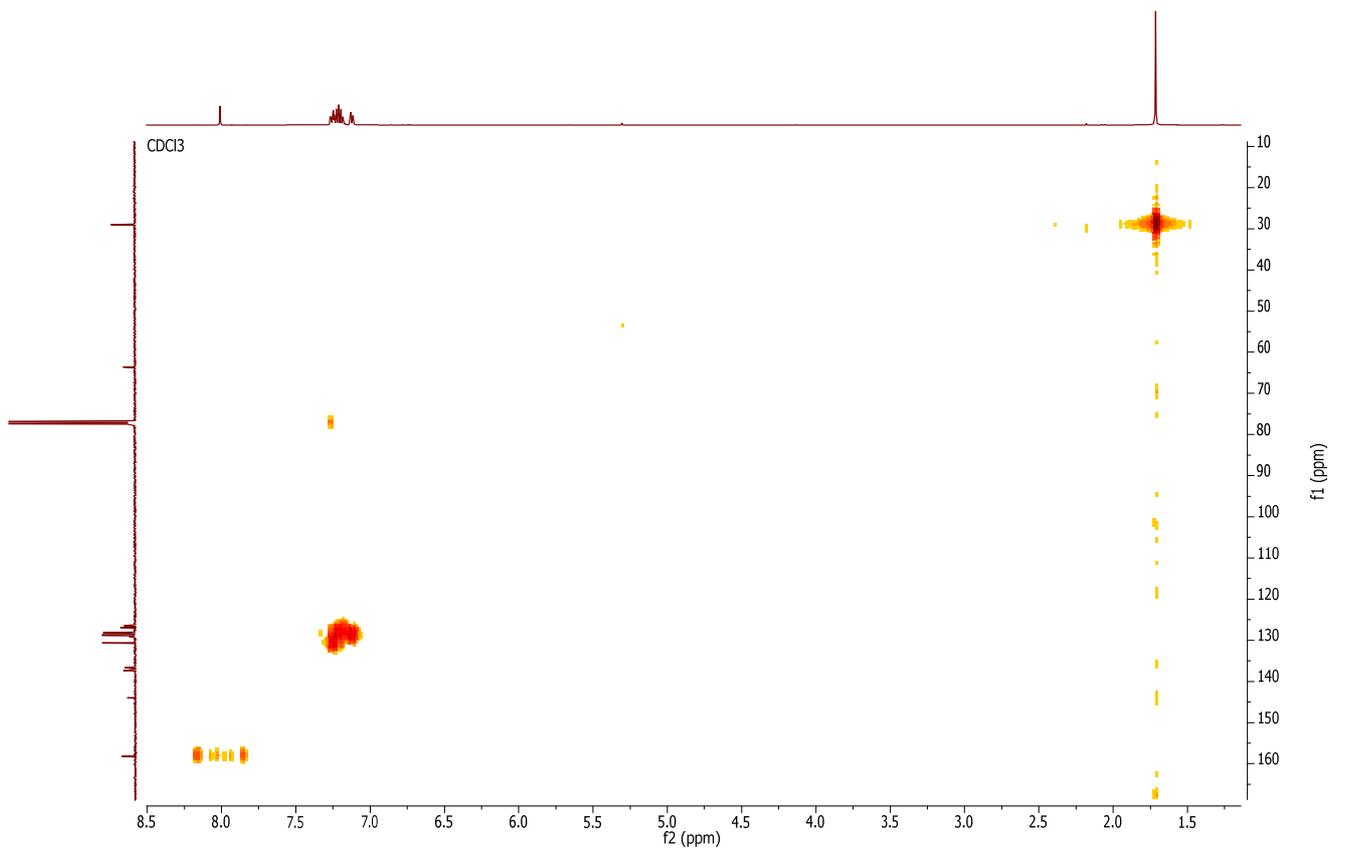


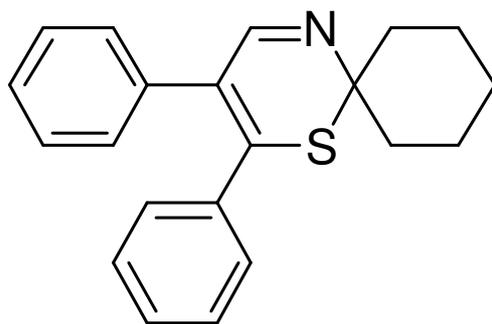


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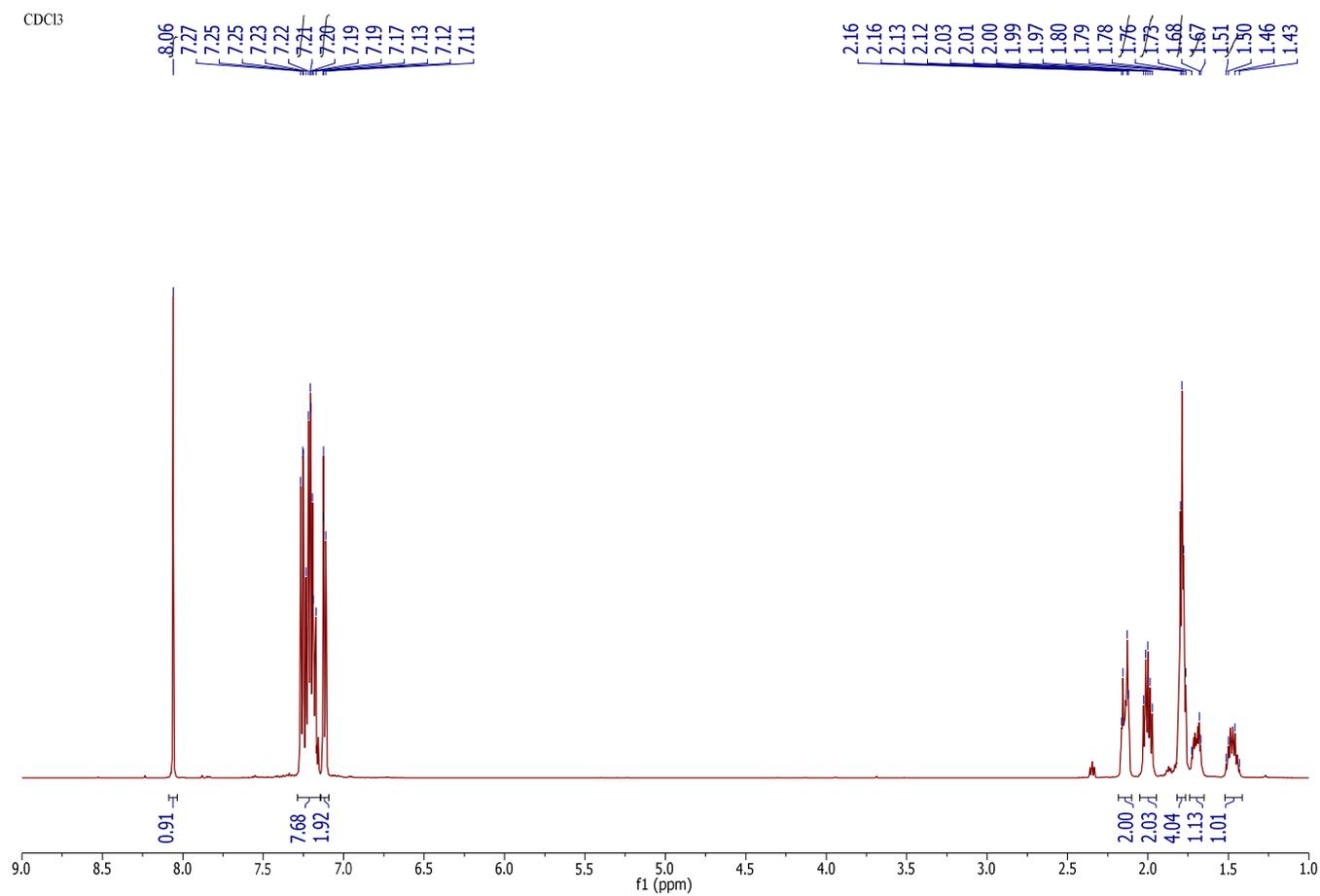


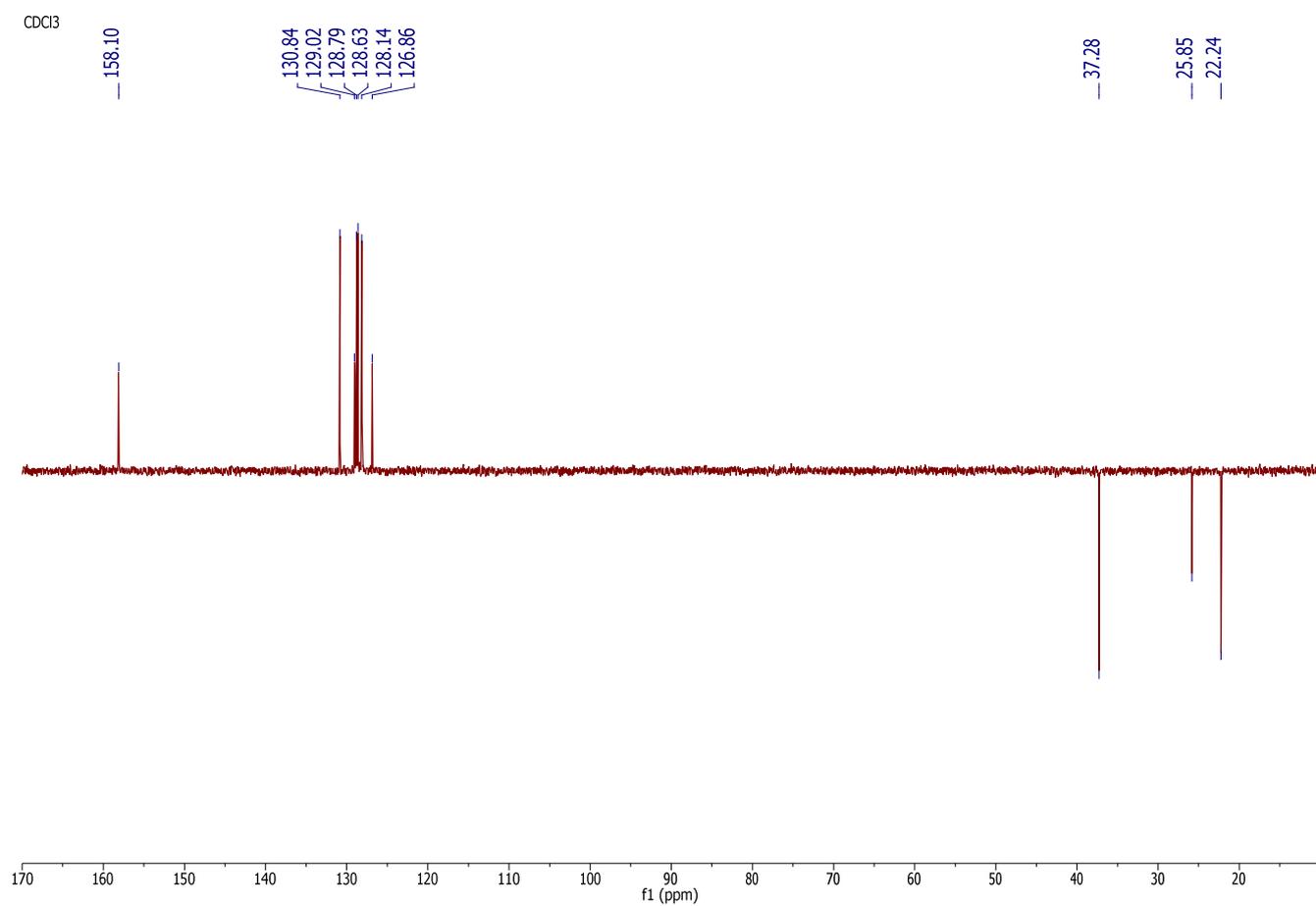
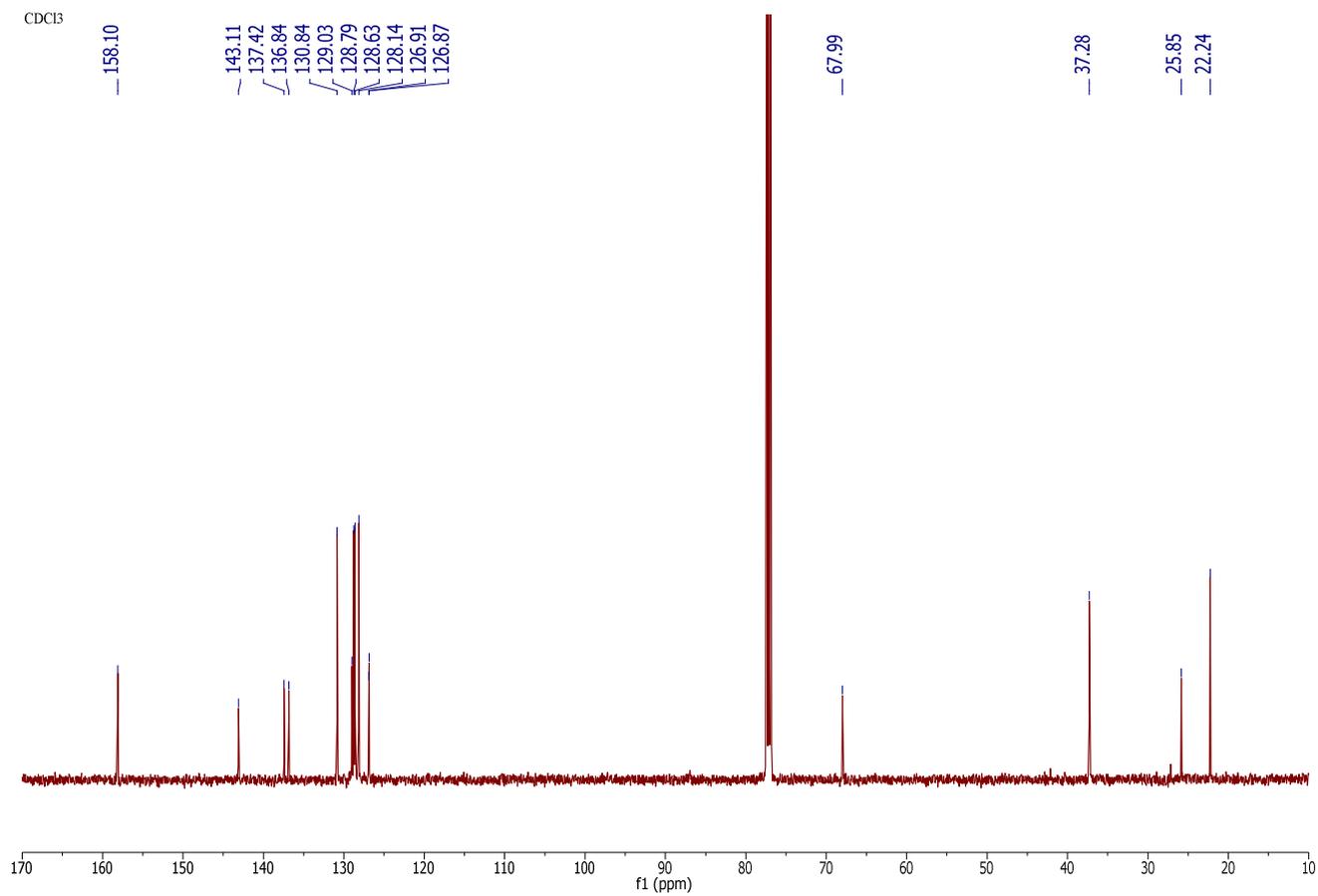


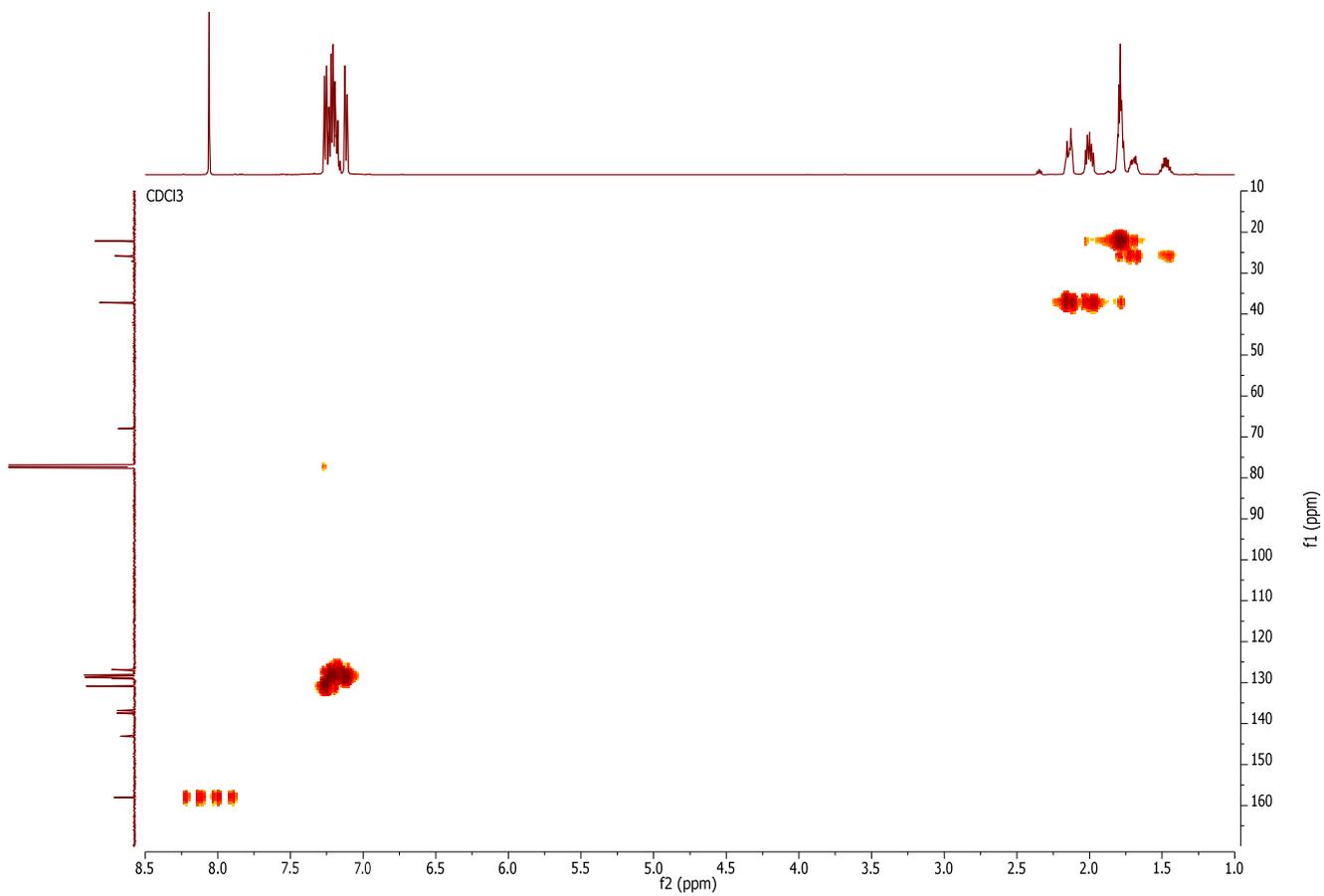
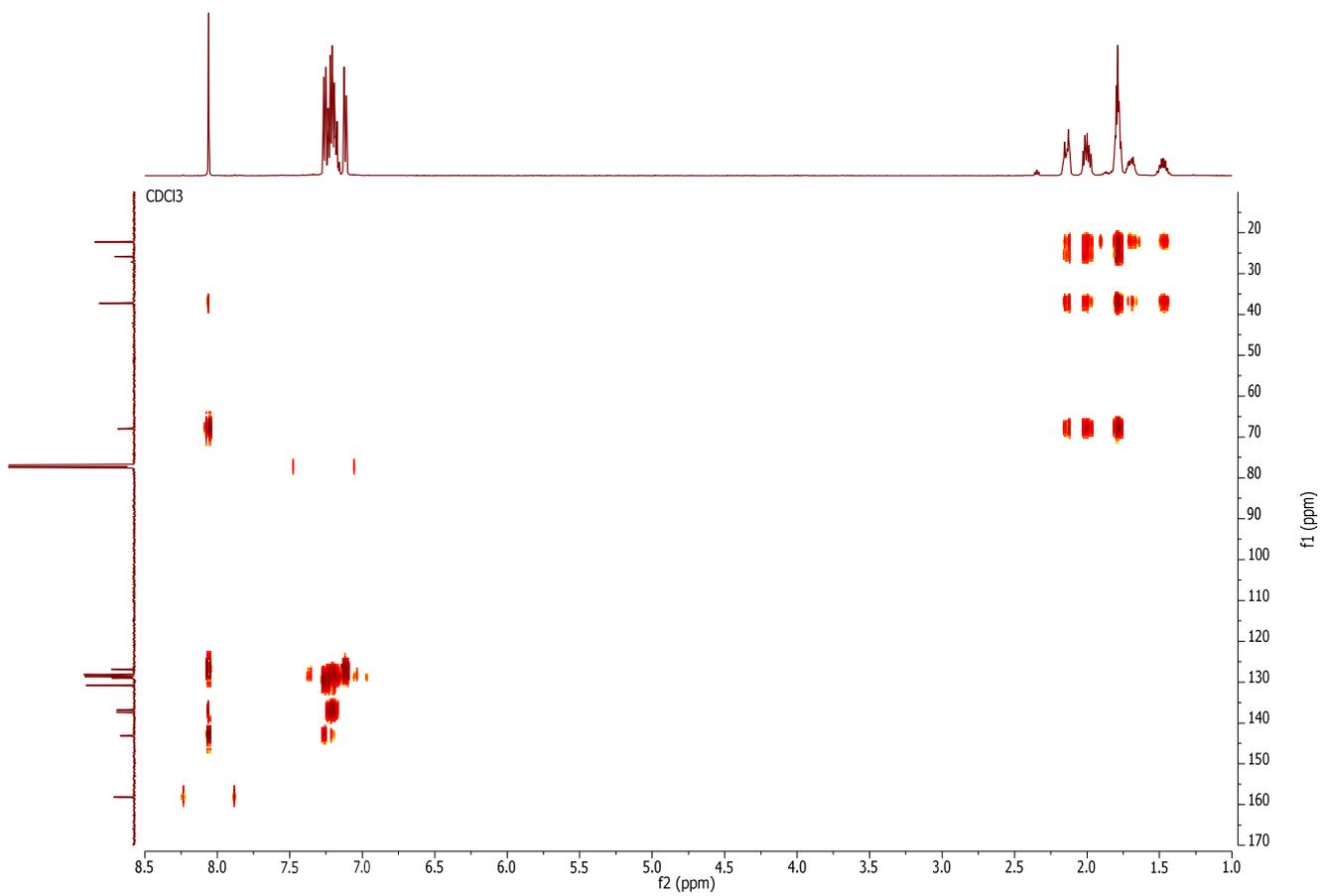


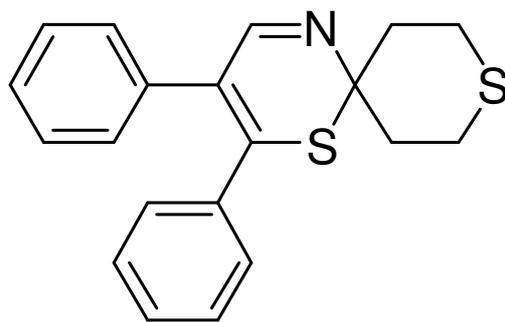


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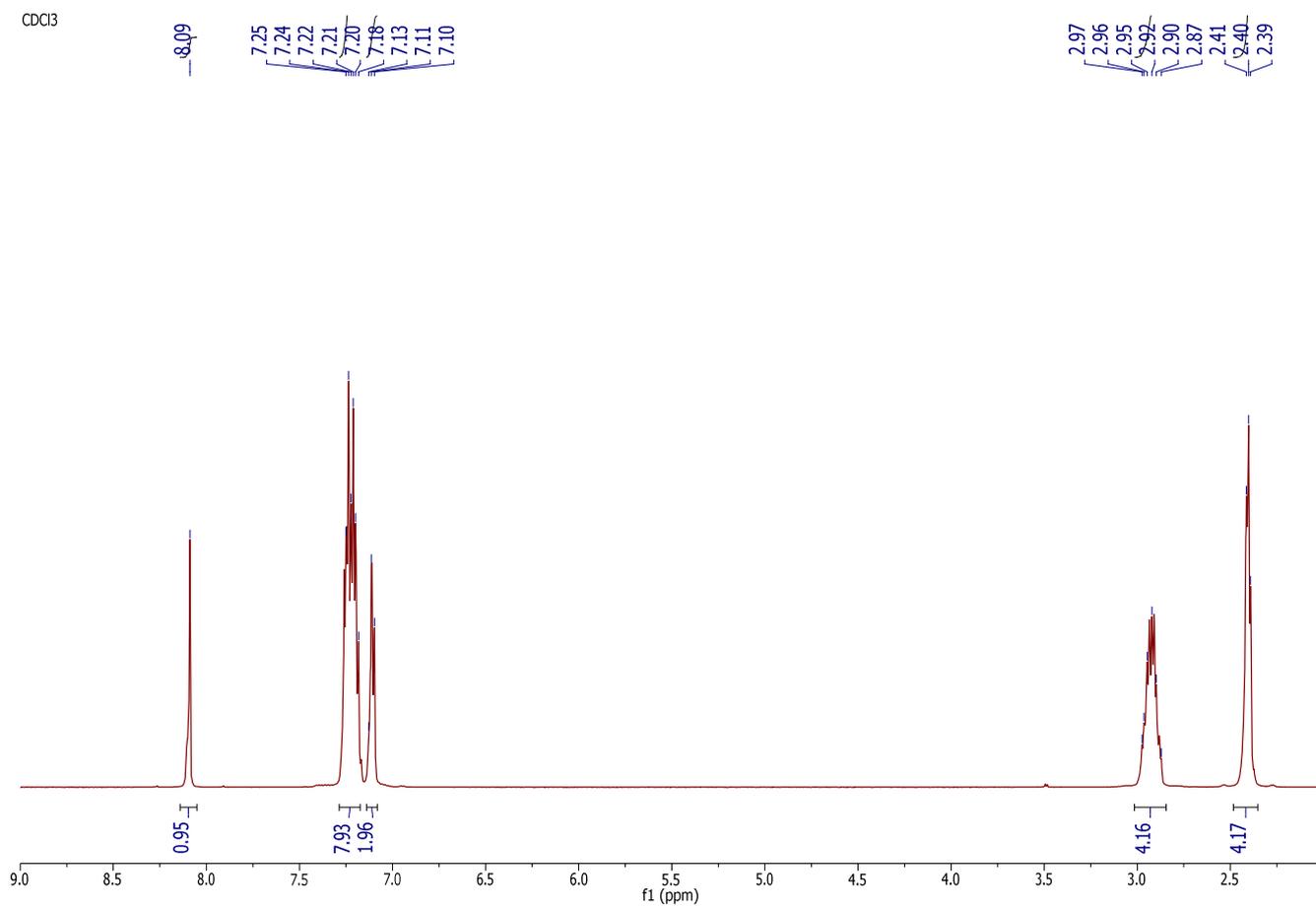


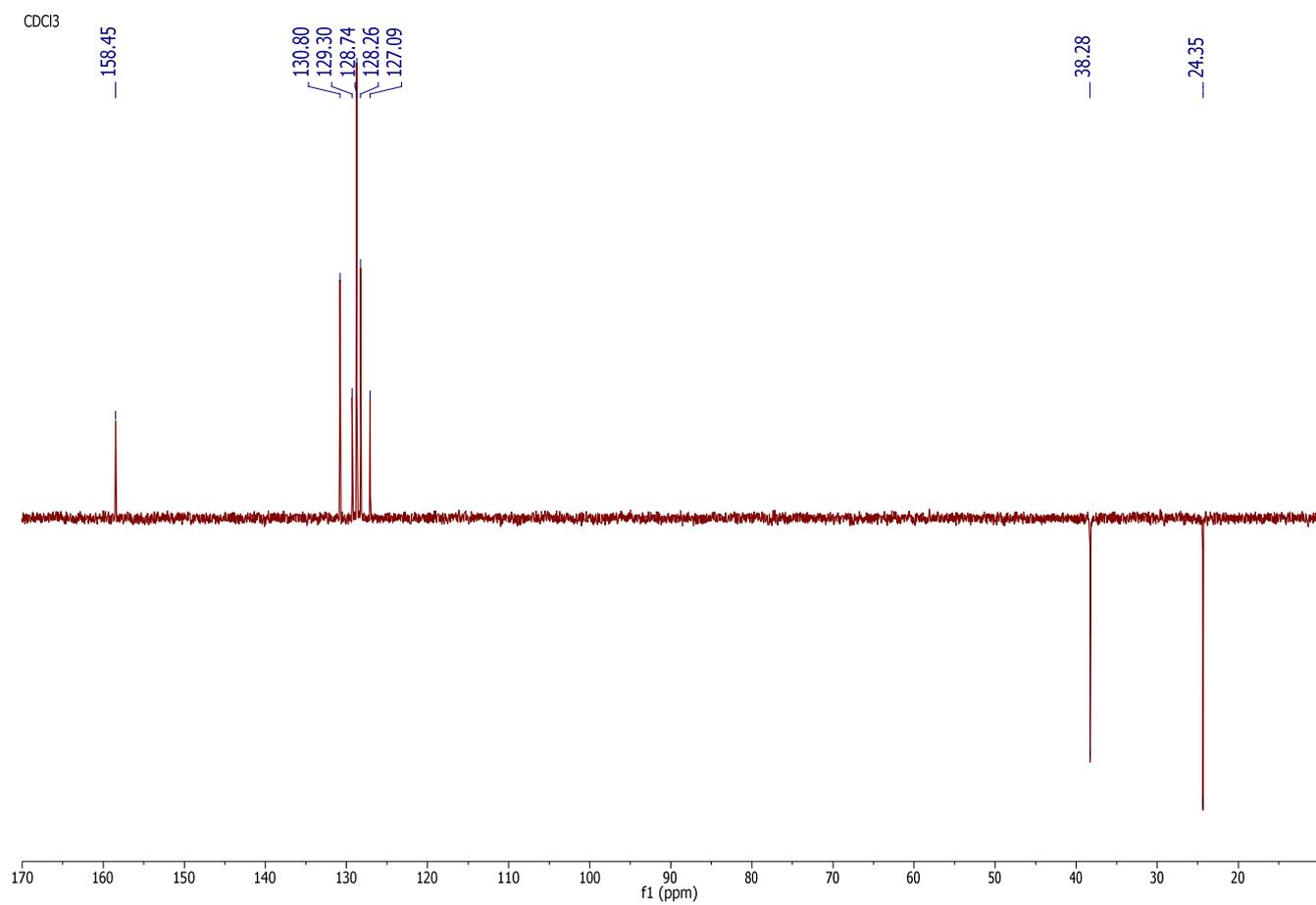
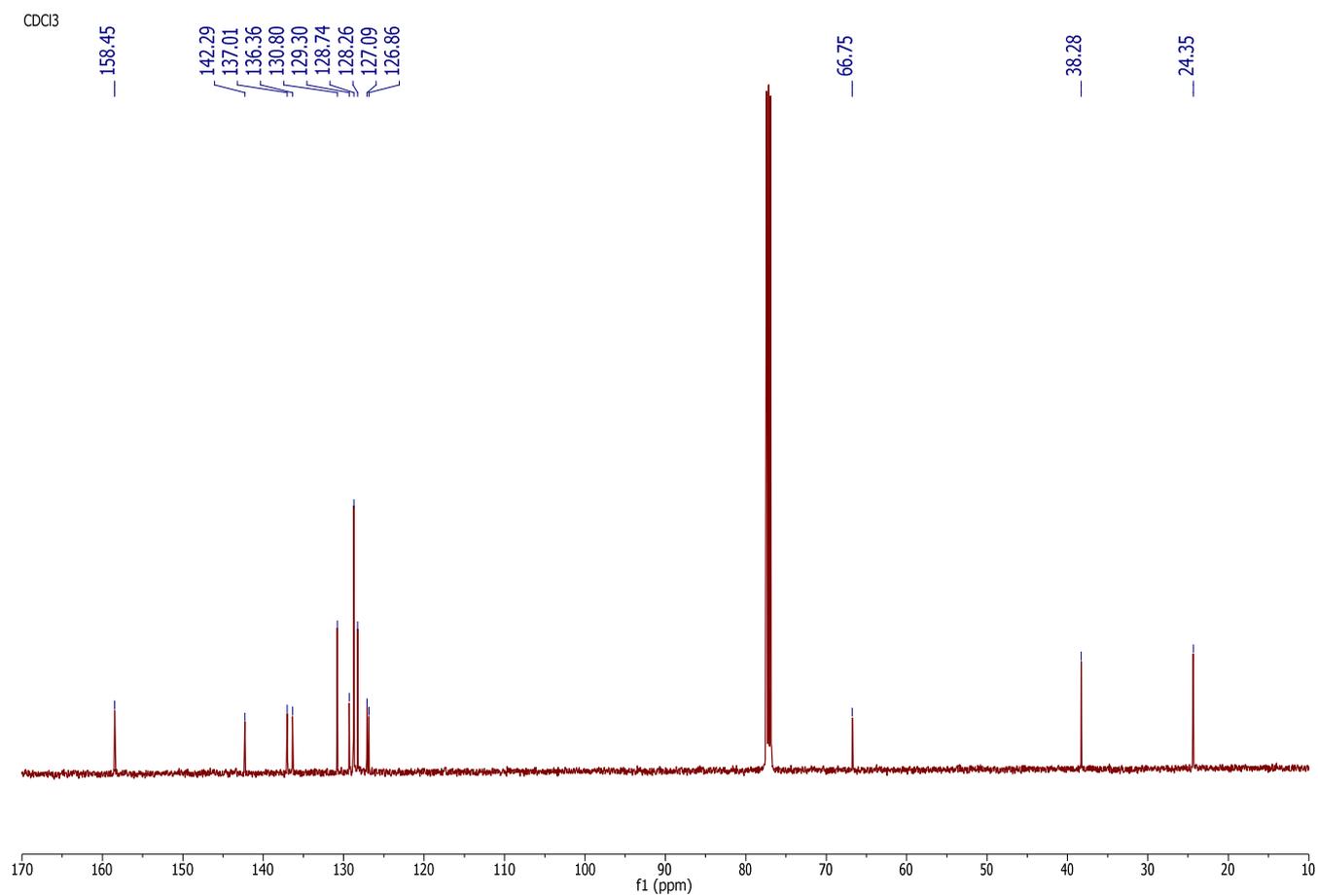


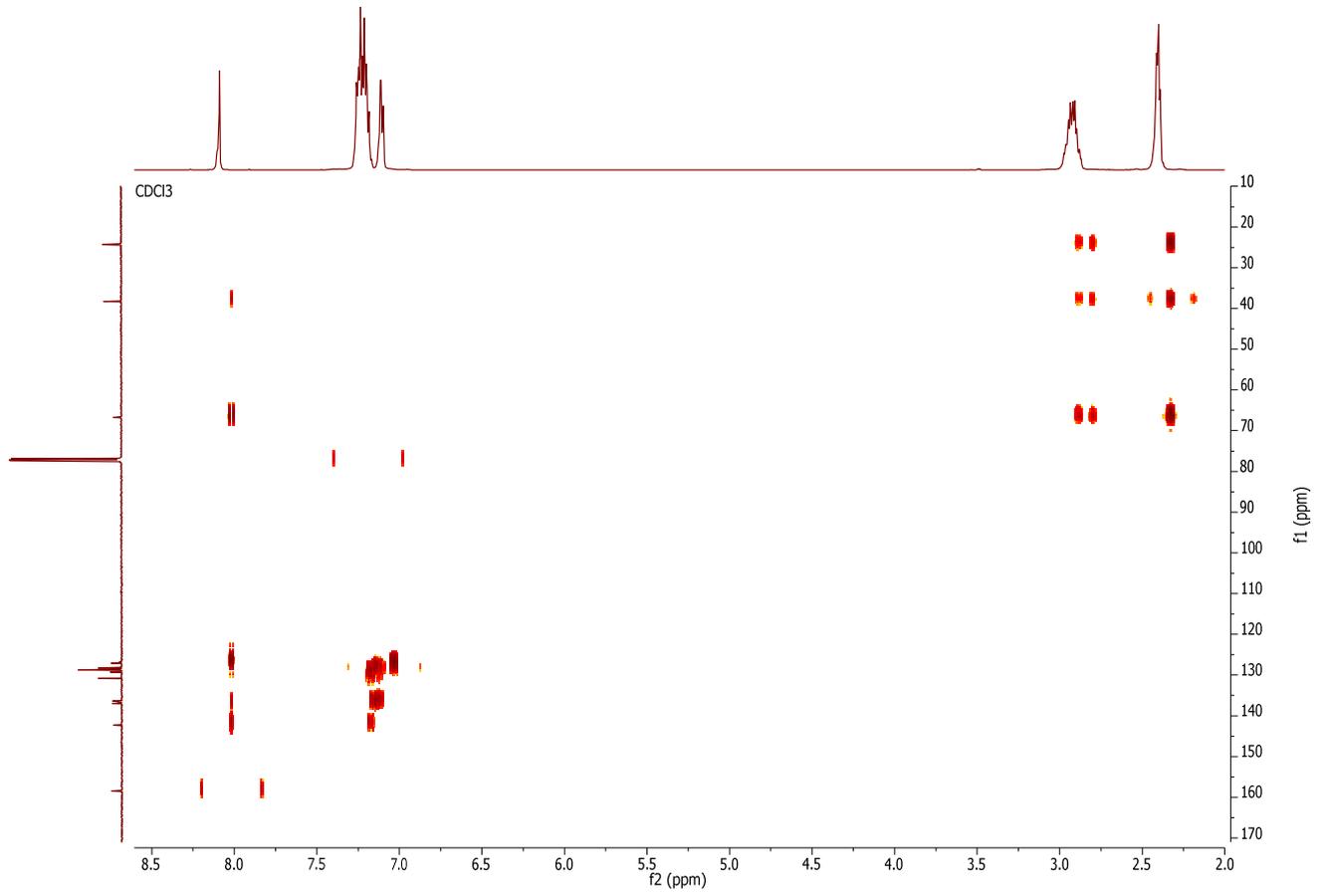
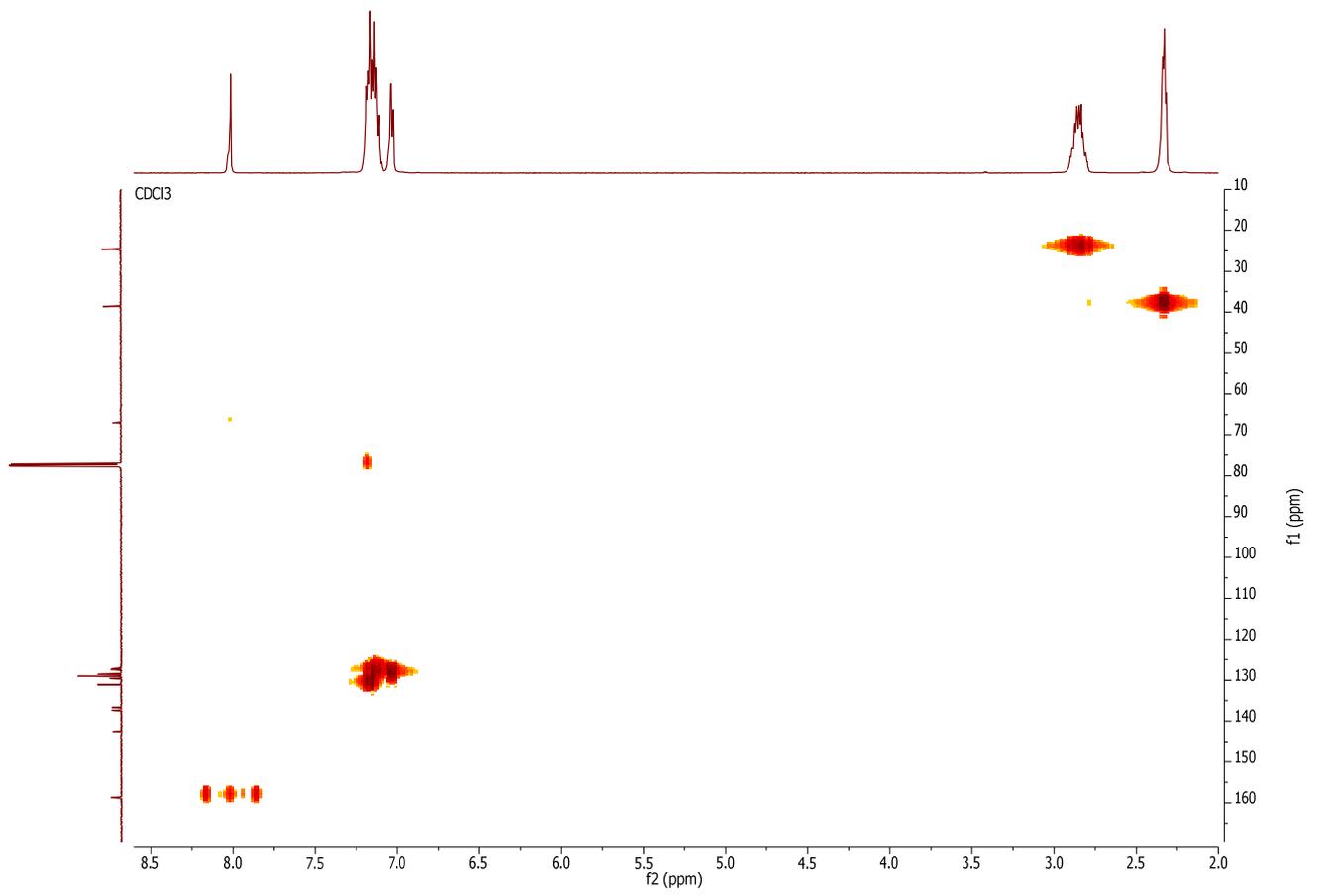


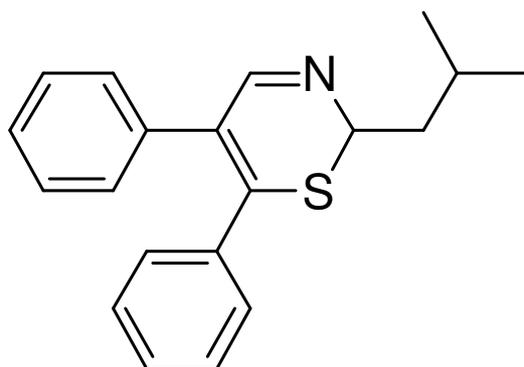


2c



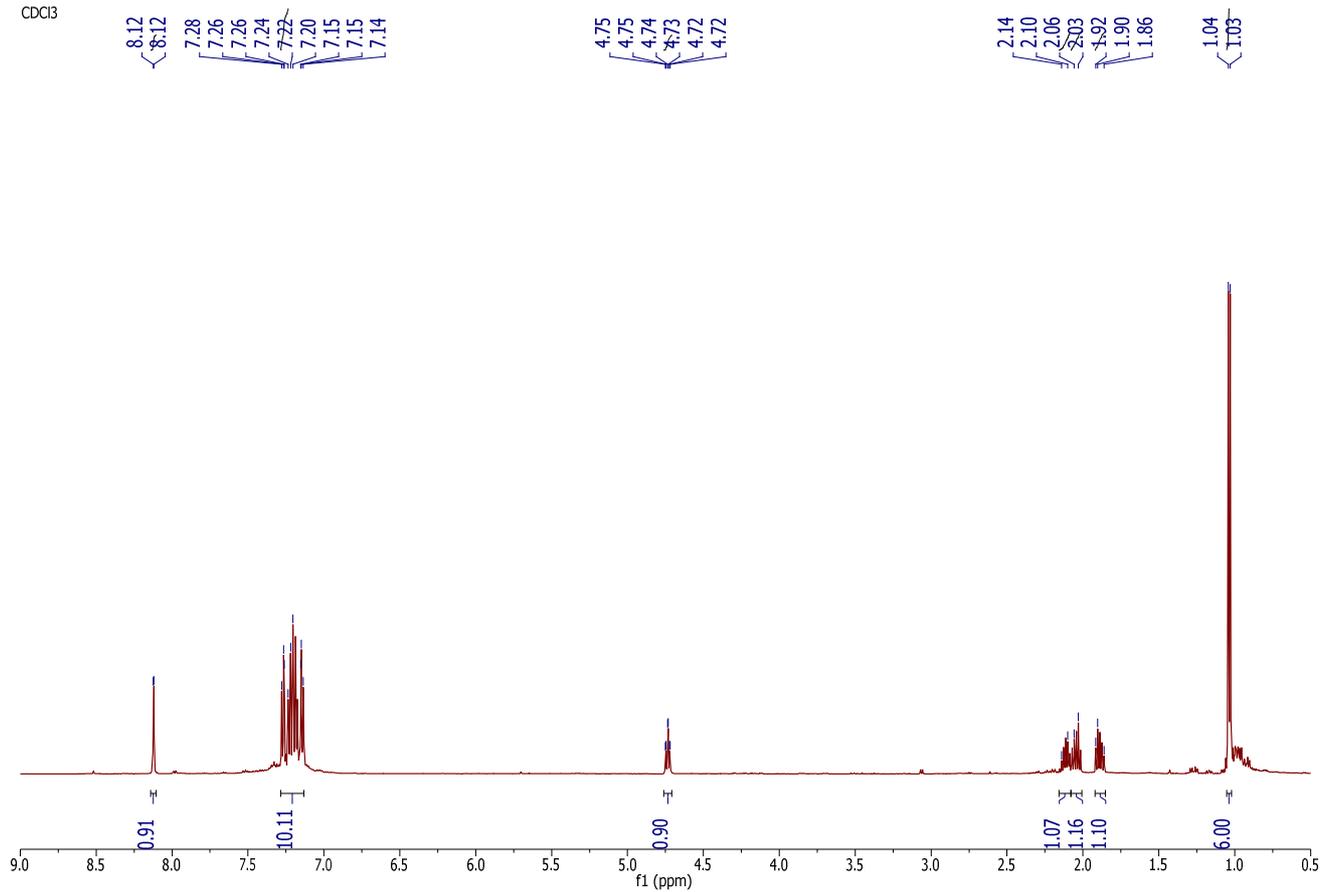


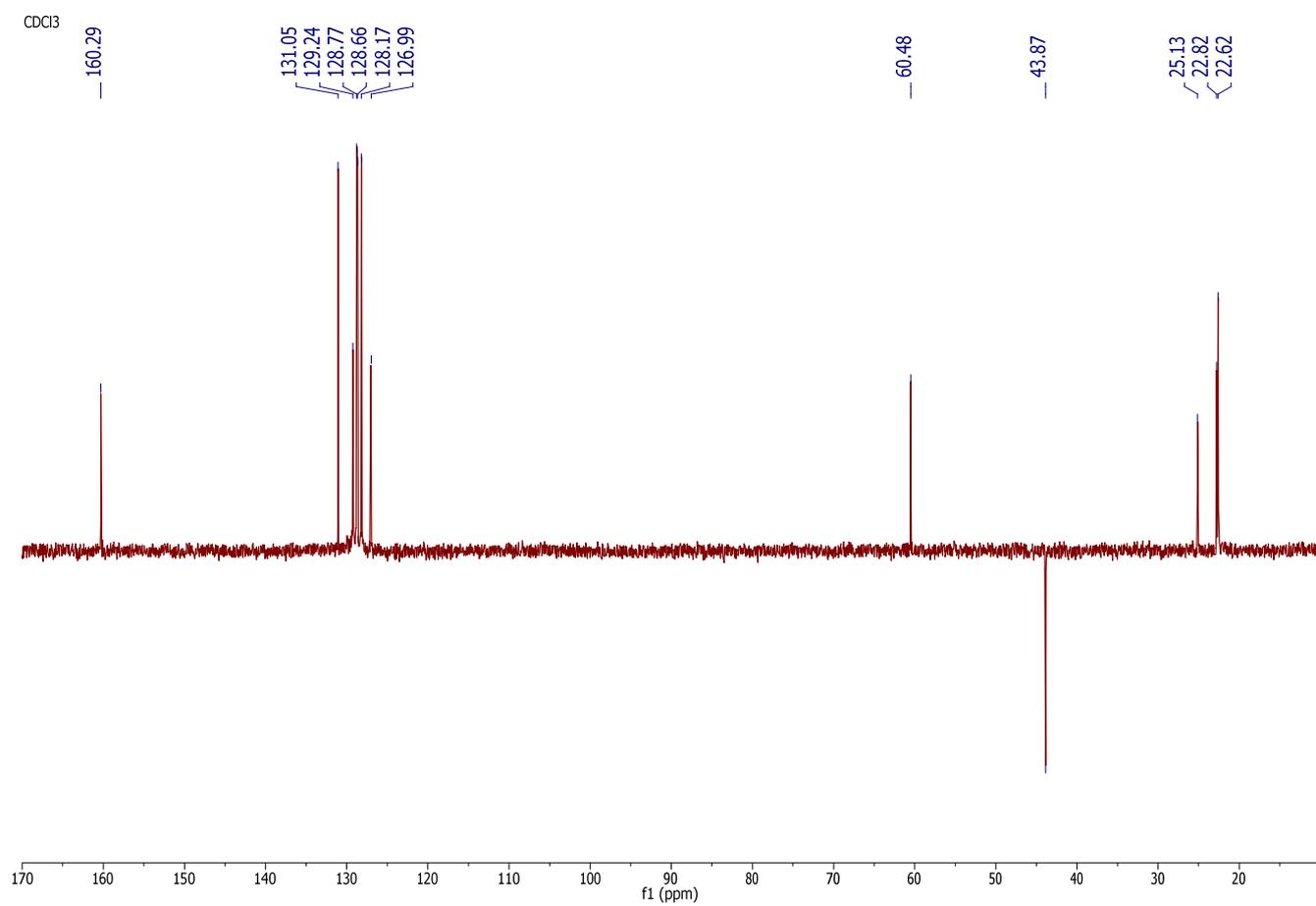
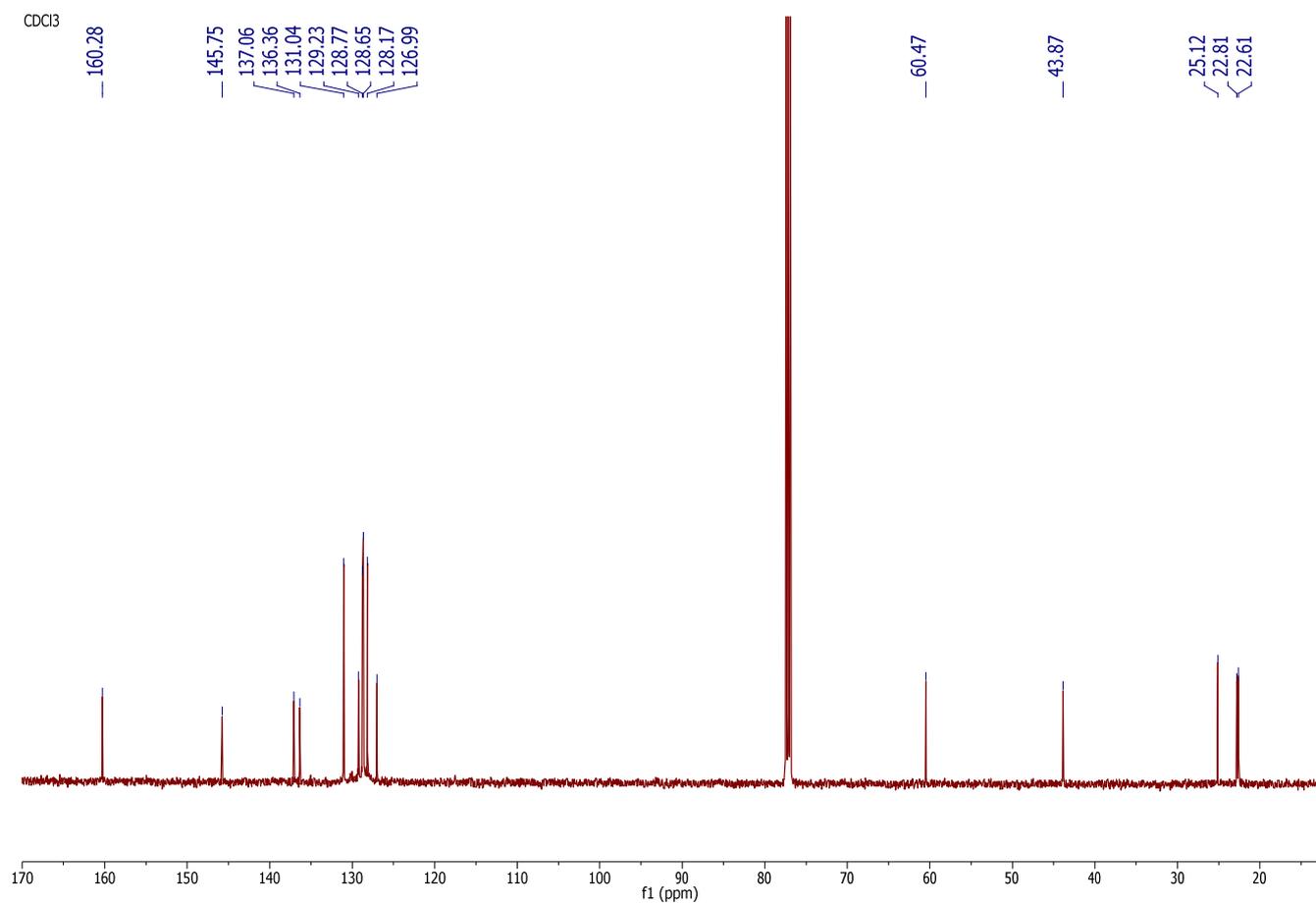


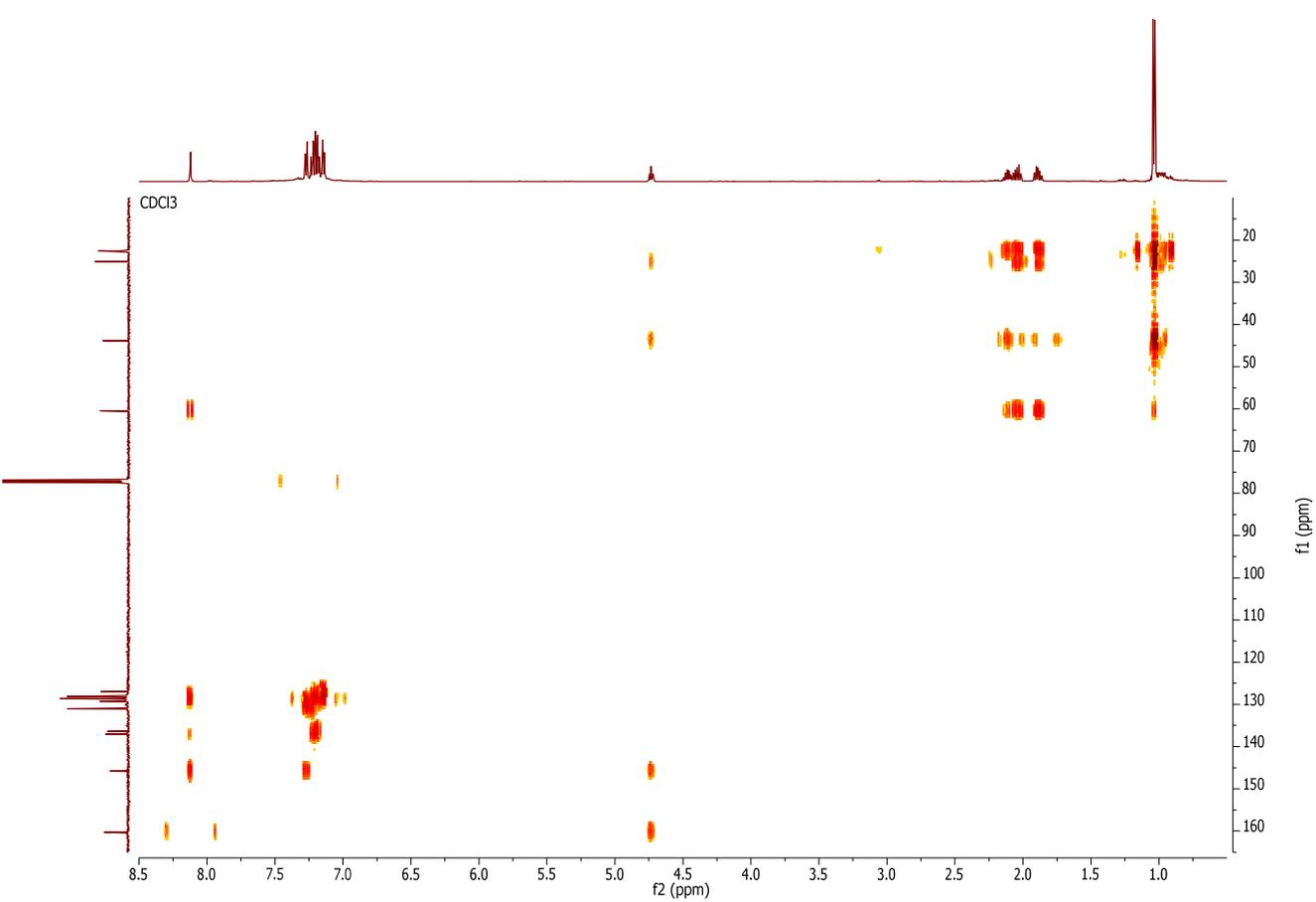
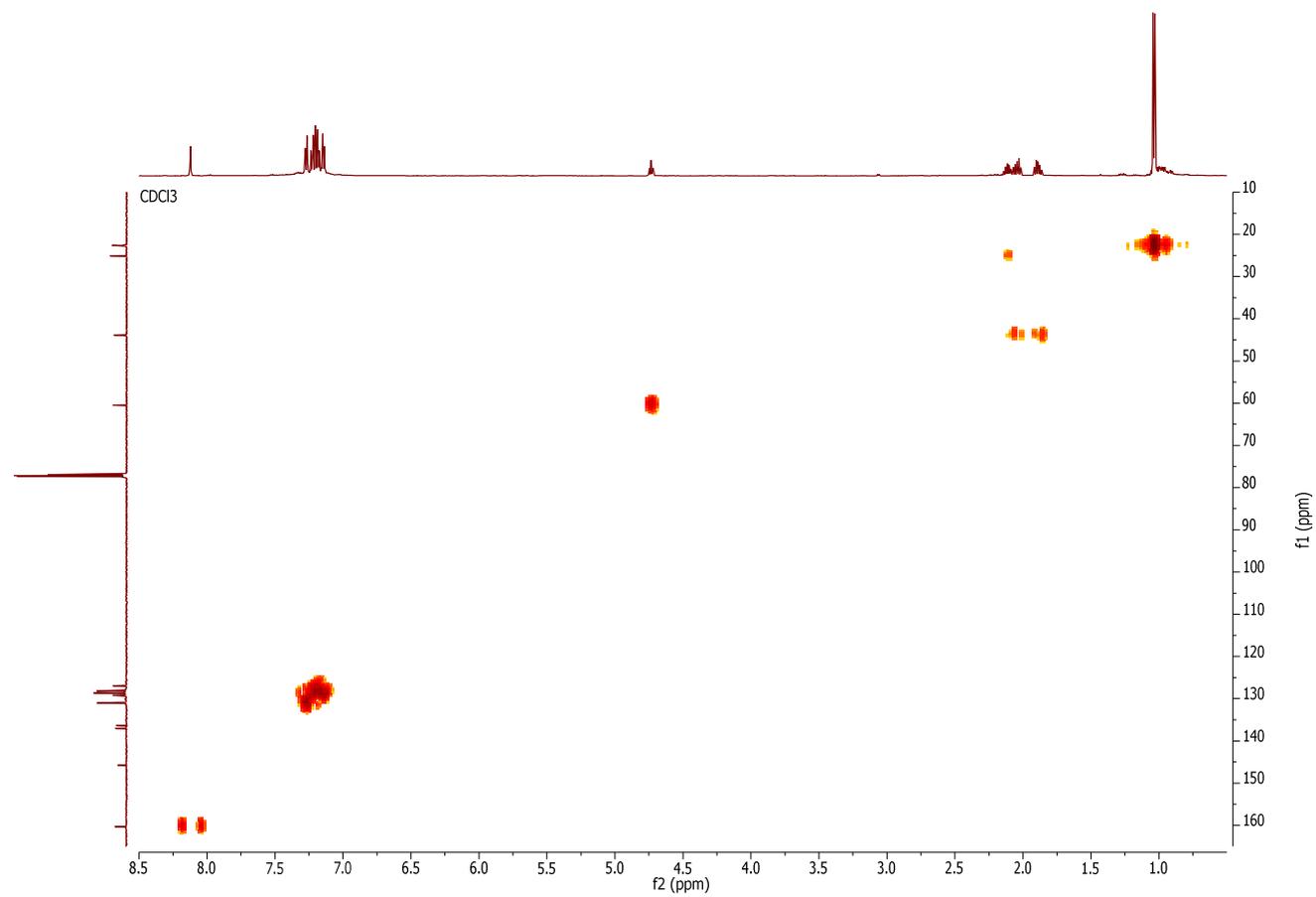


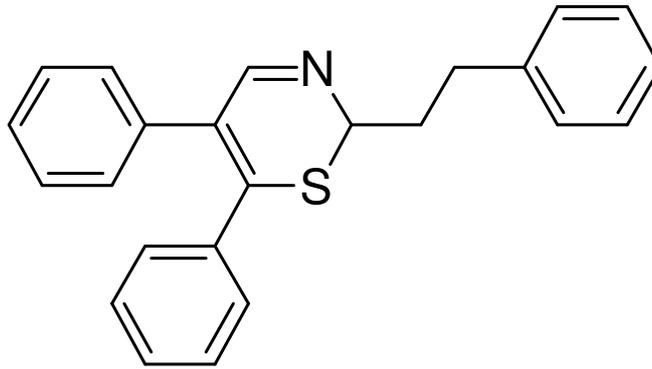
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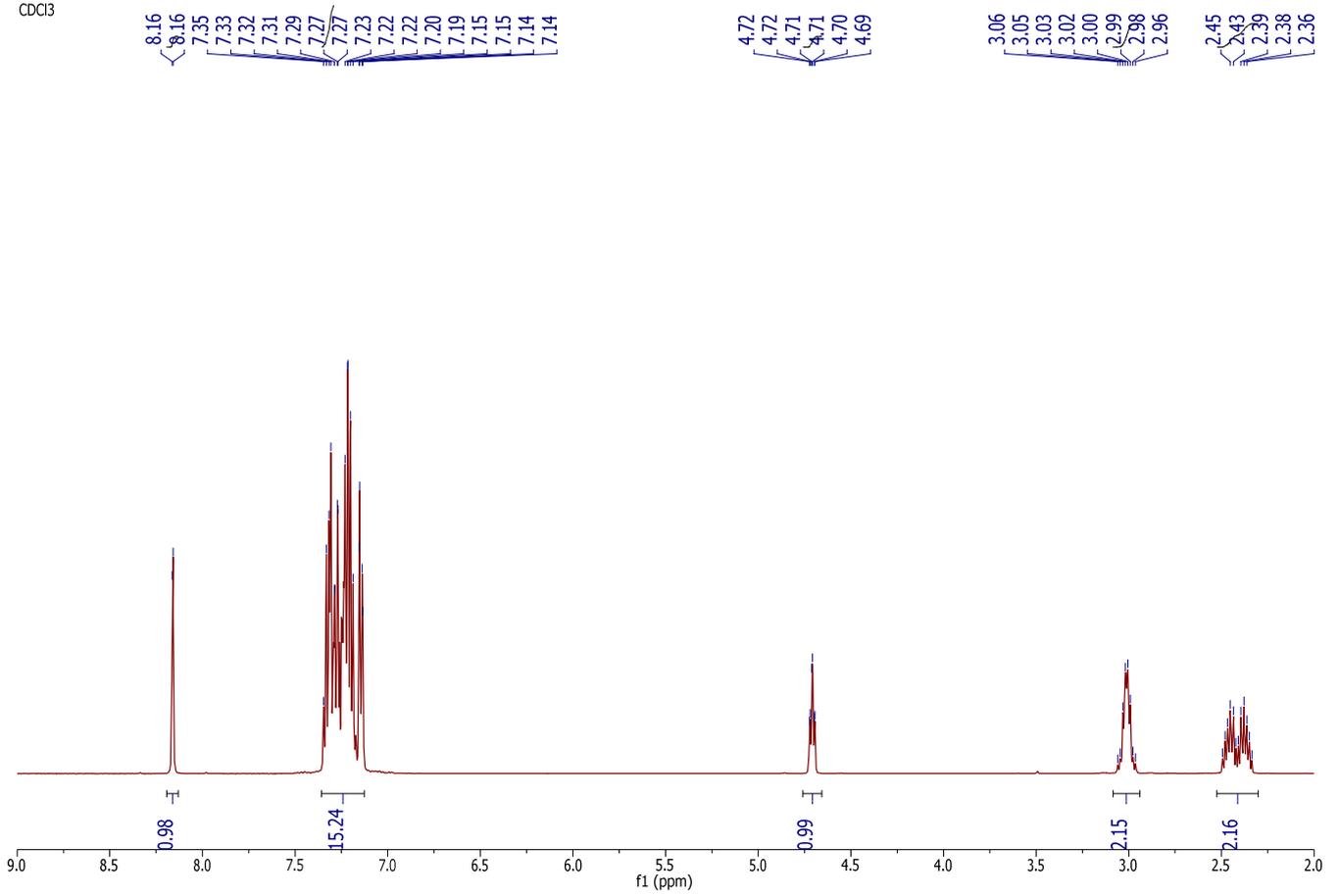




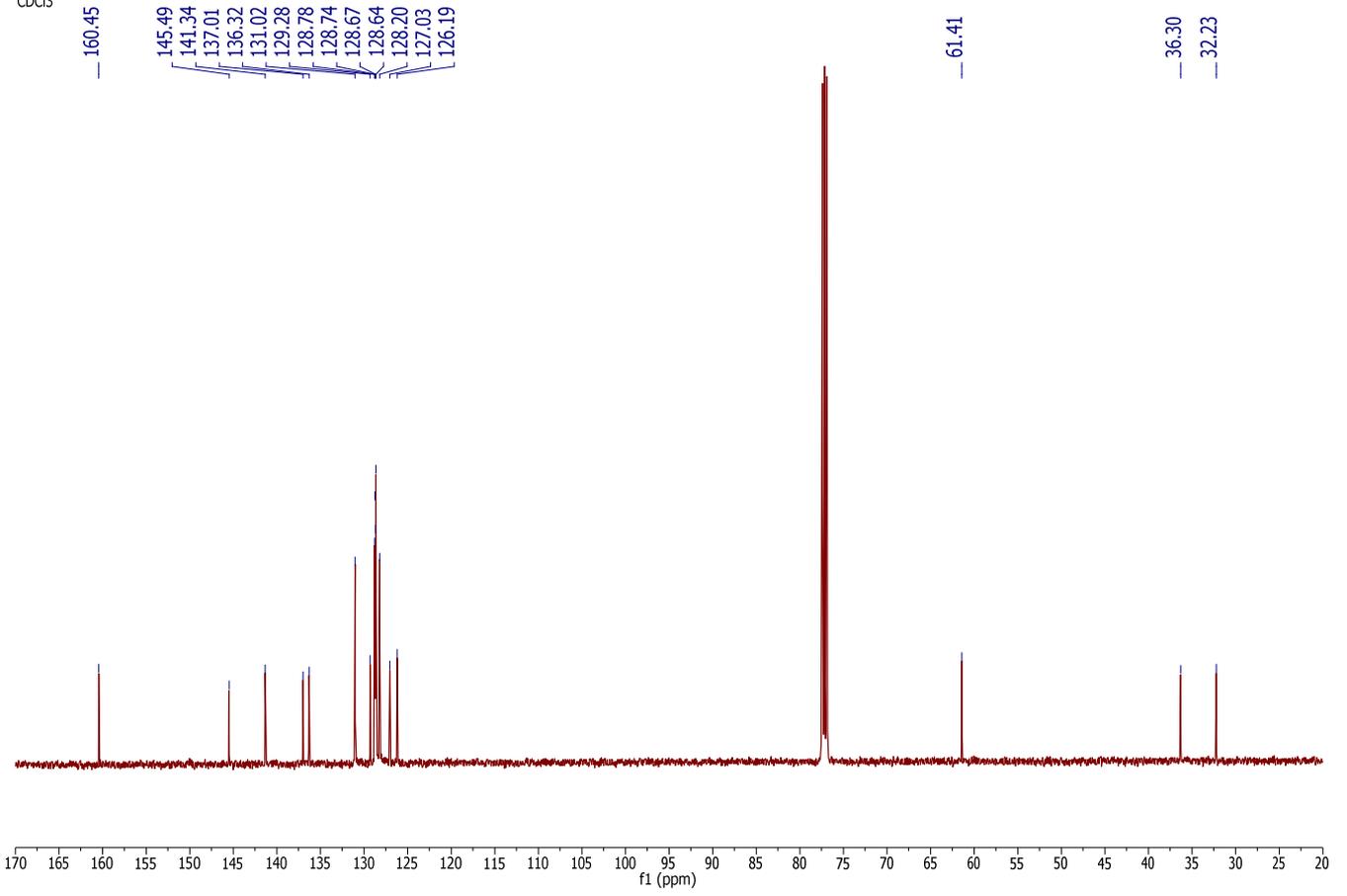


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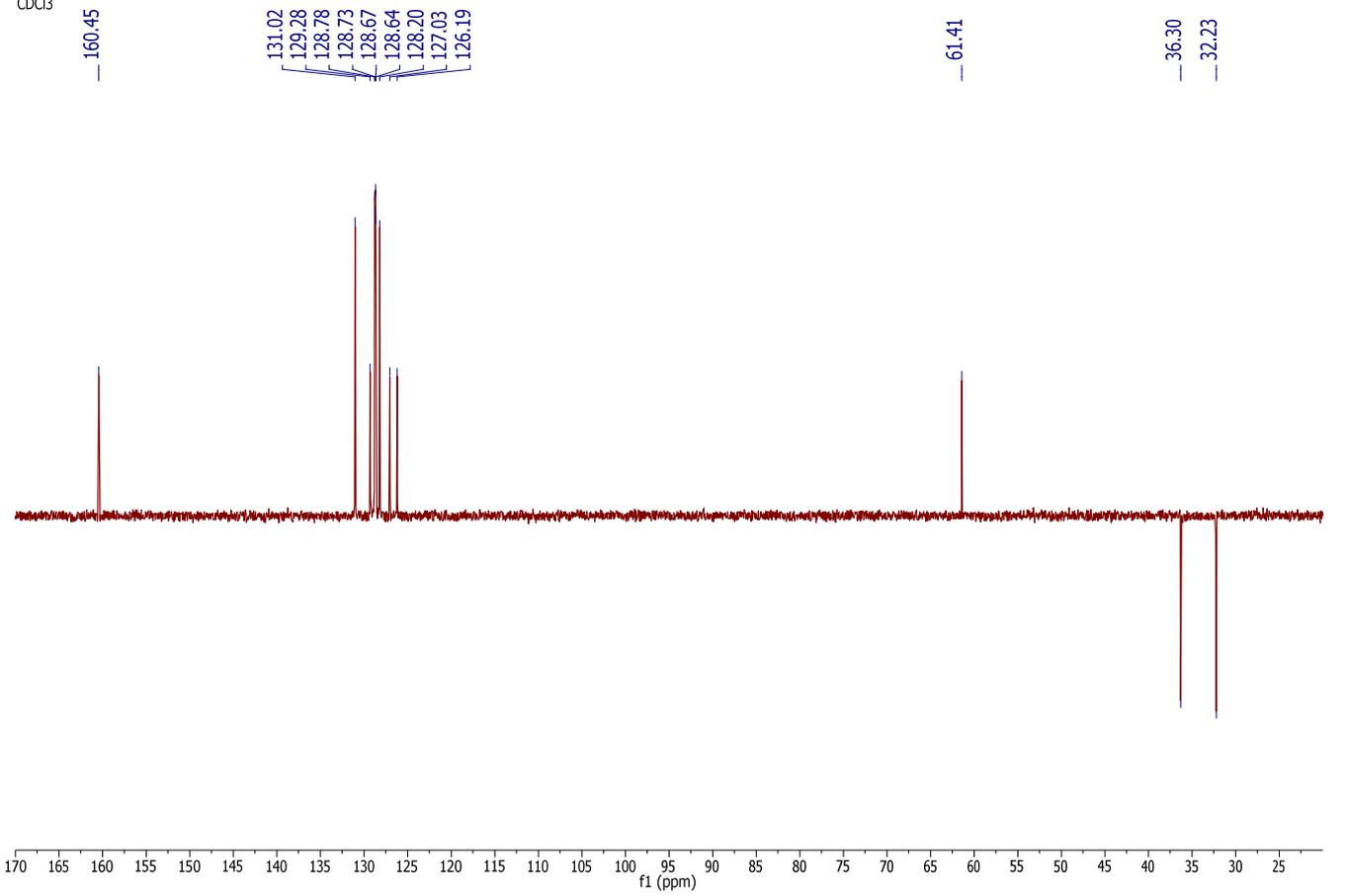
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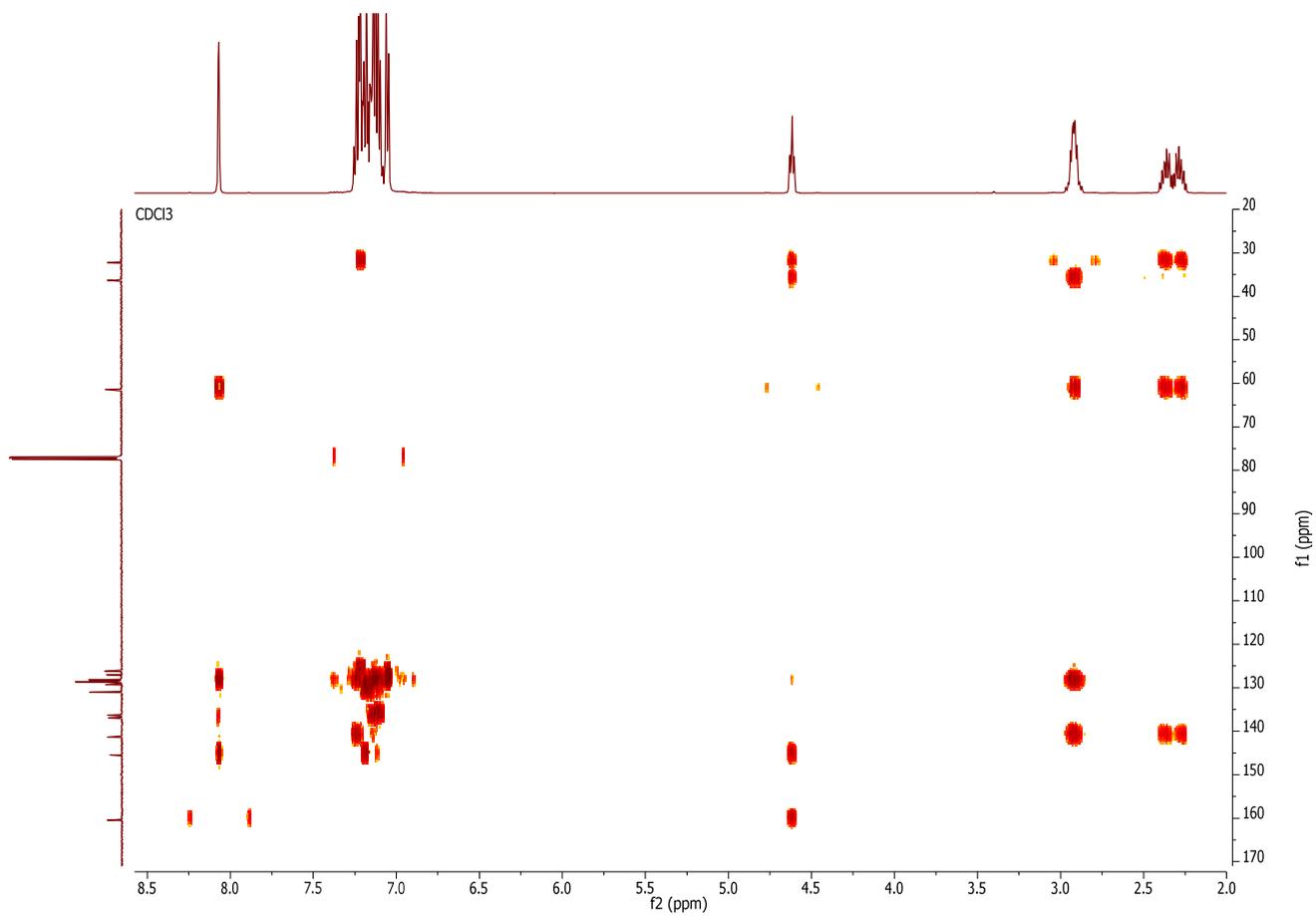
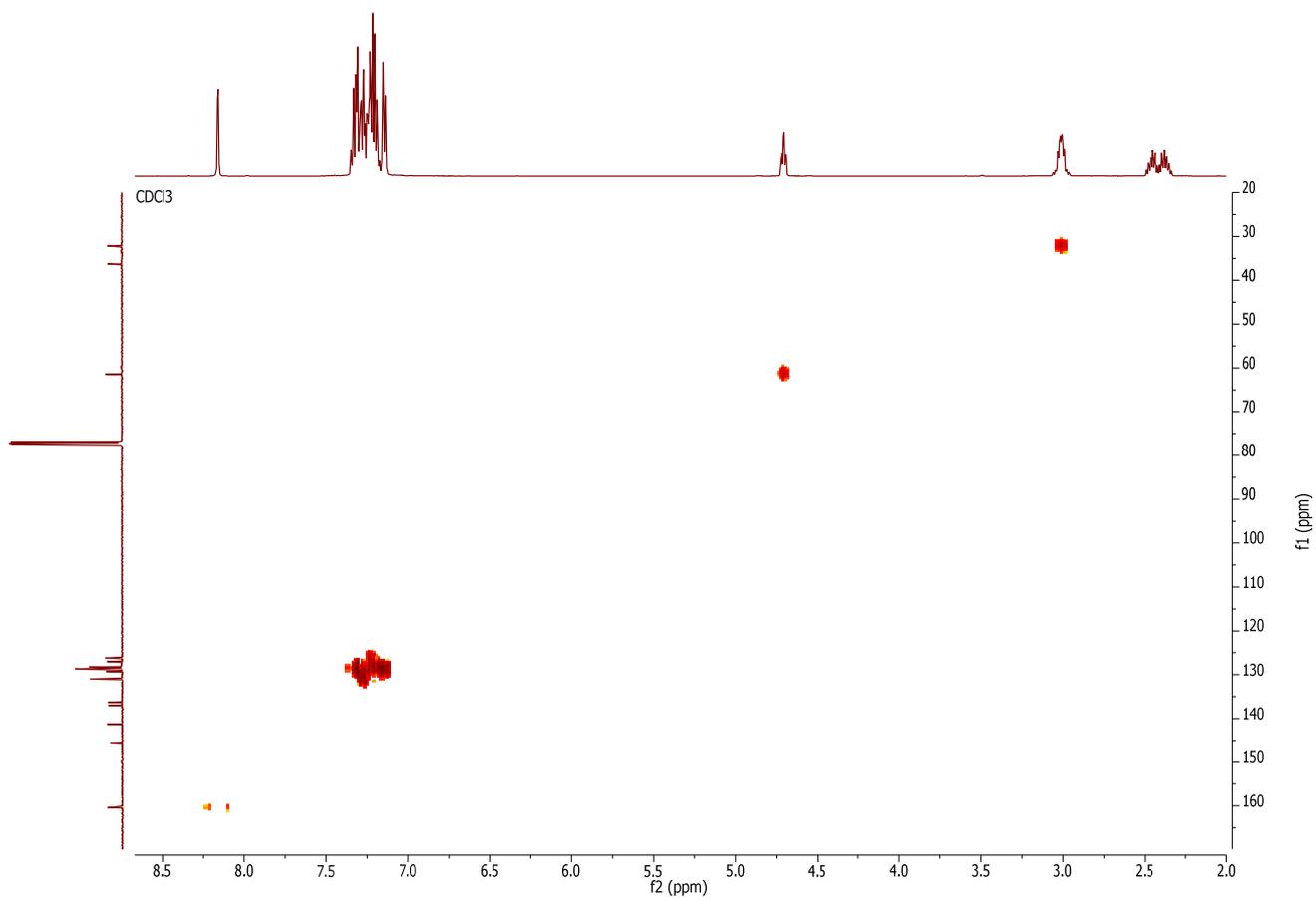


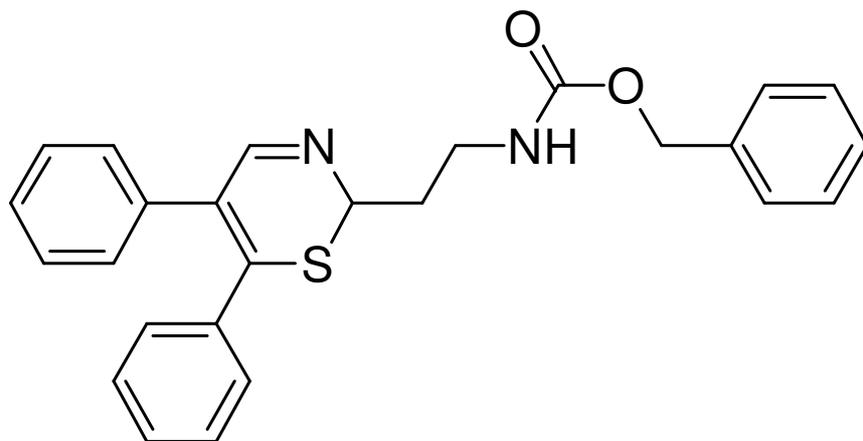
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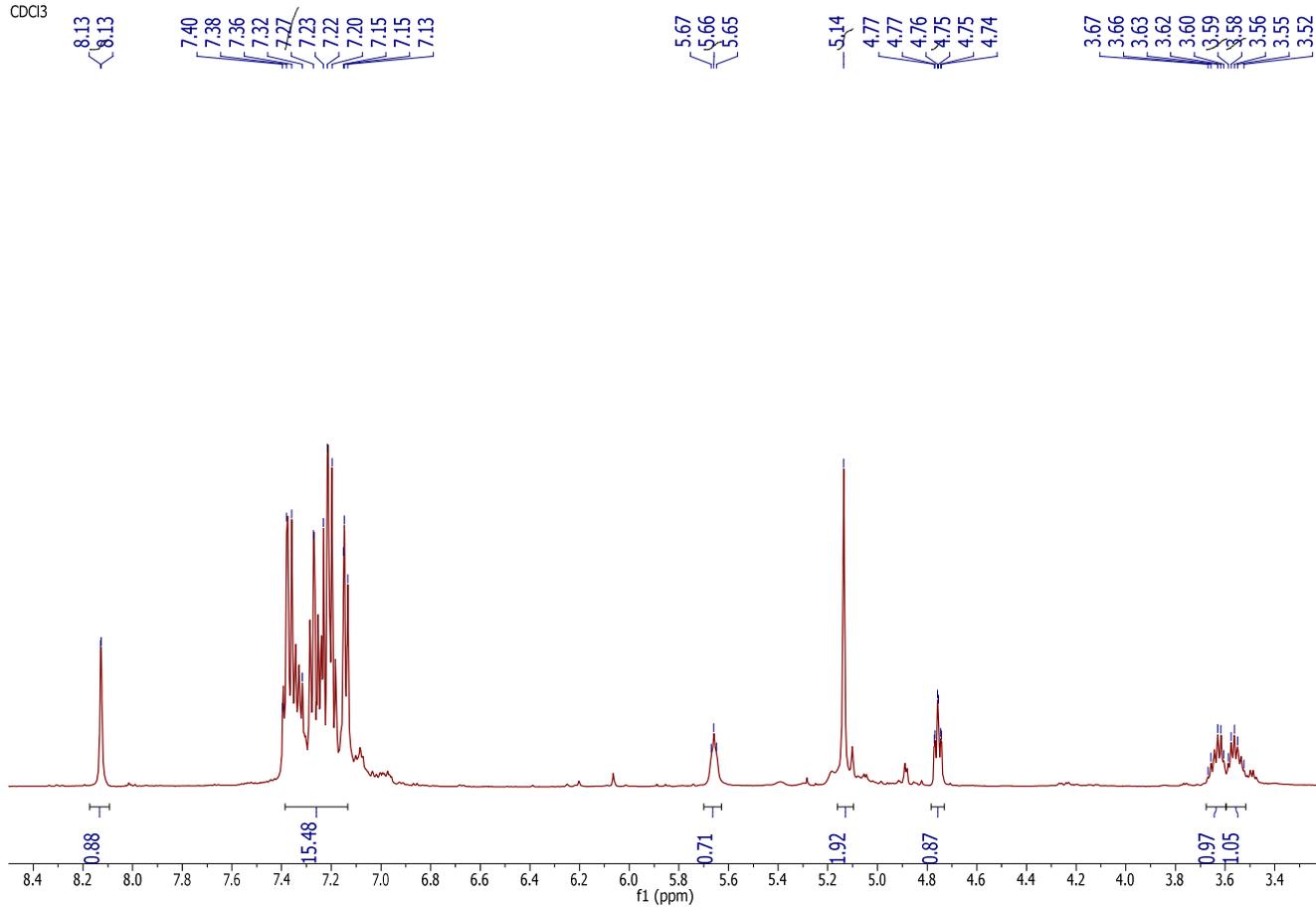






2f

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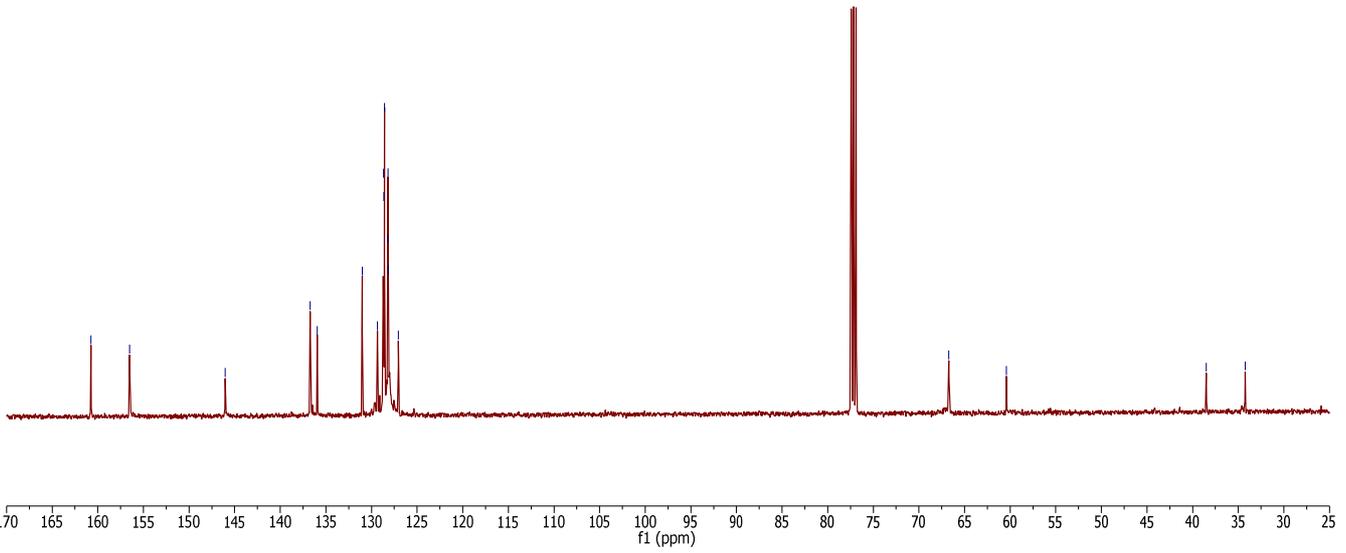
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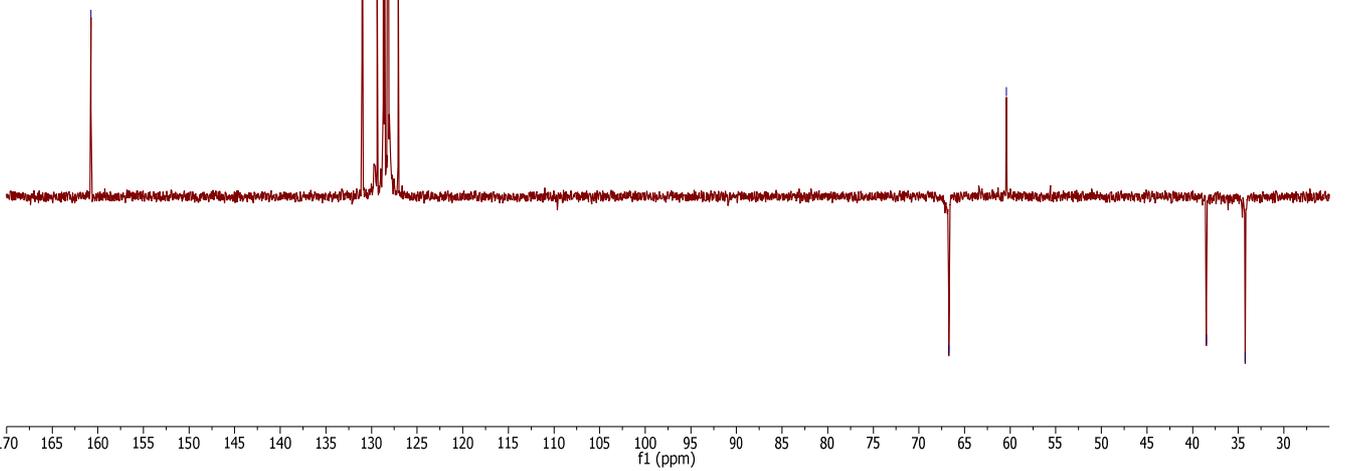
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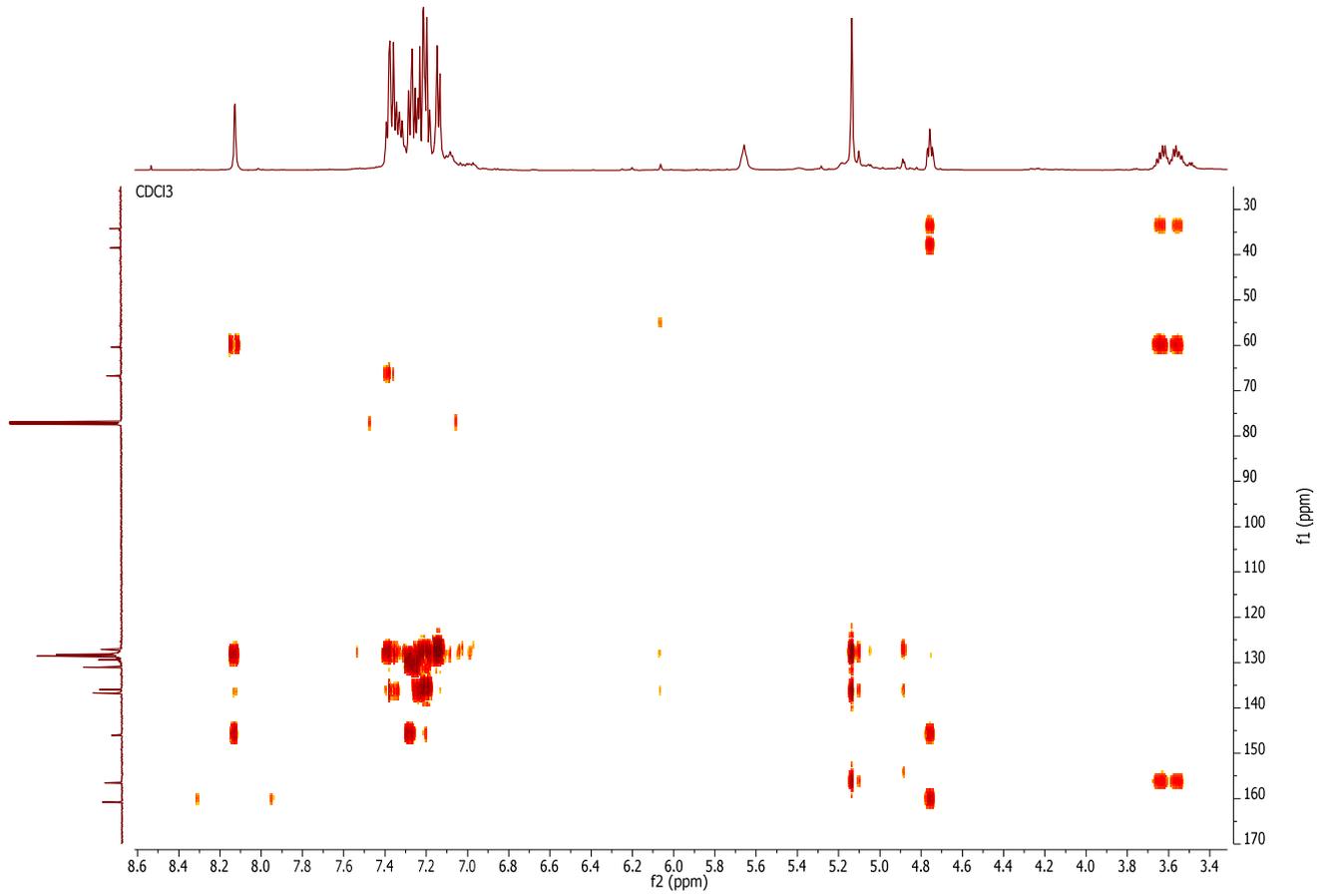
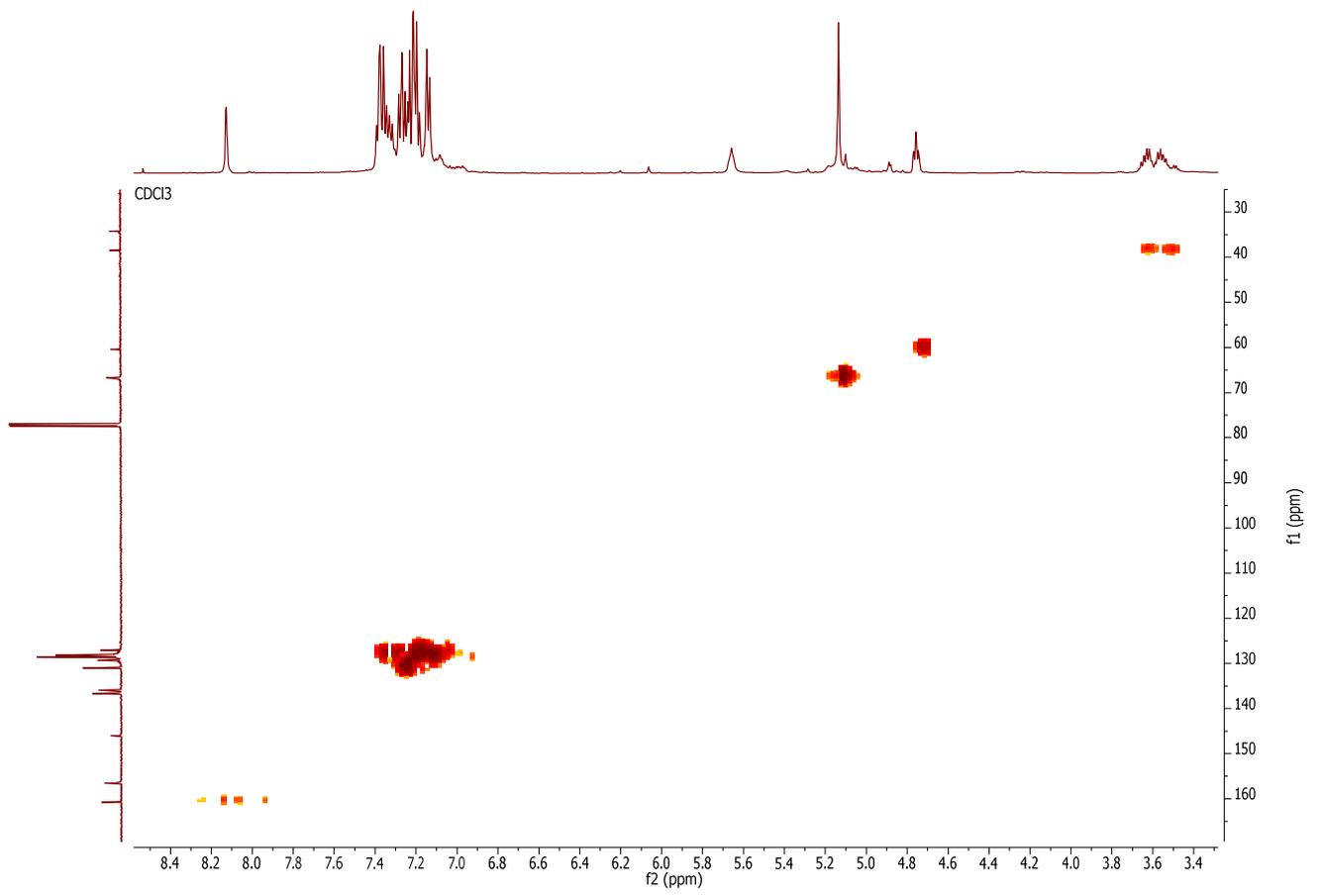
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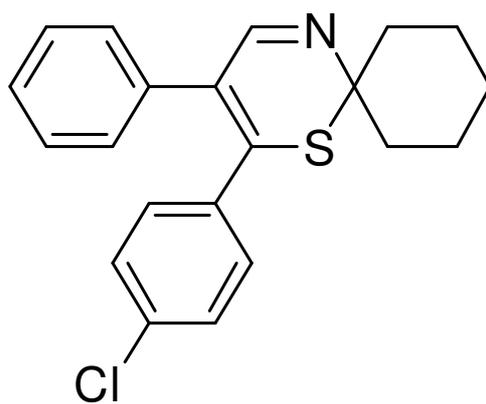
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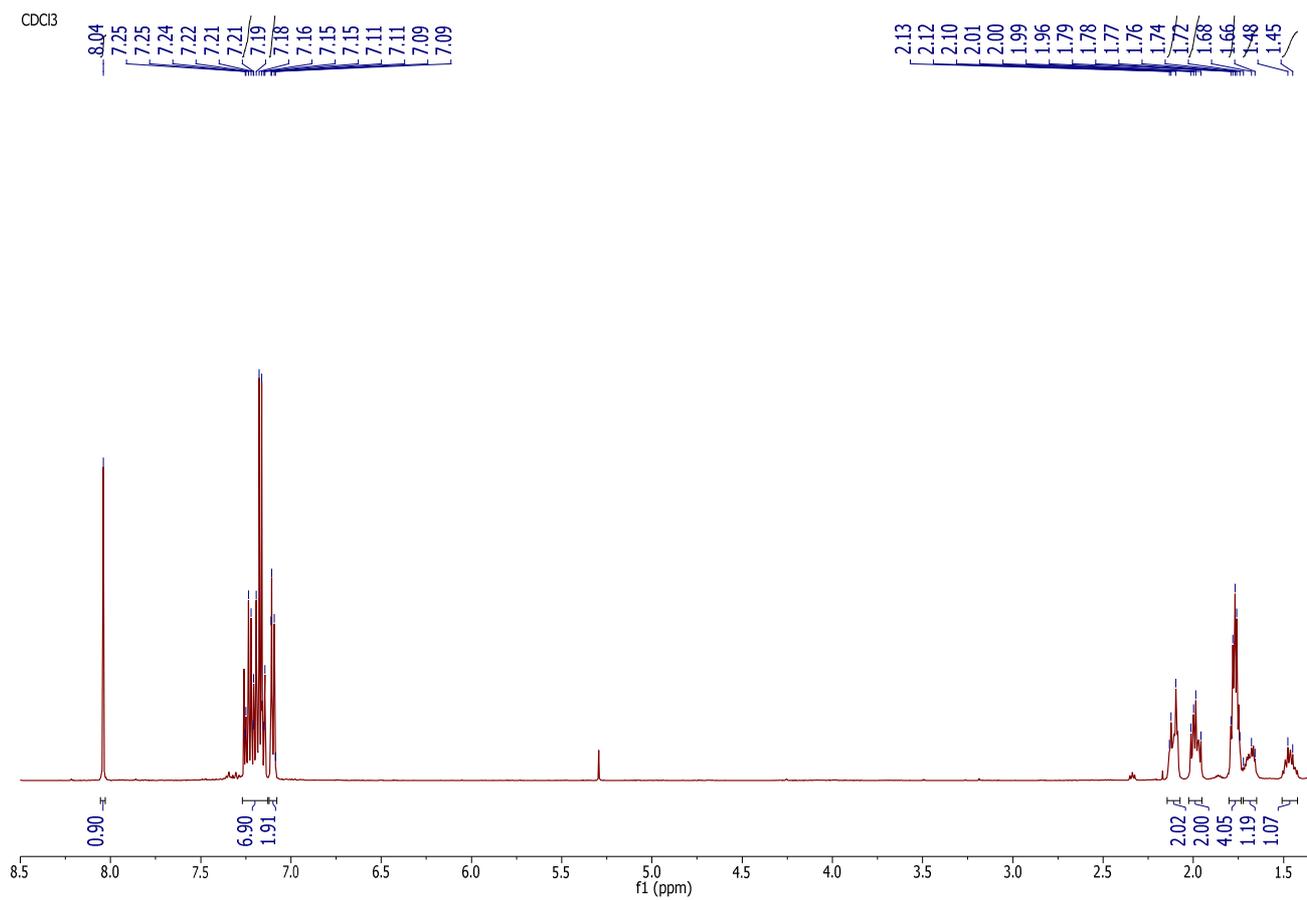
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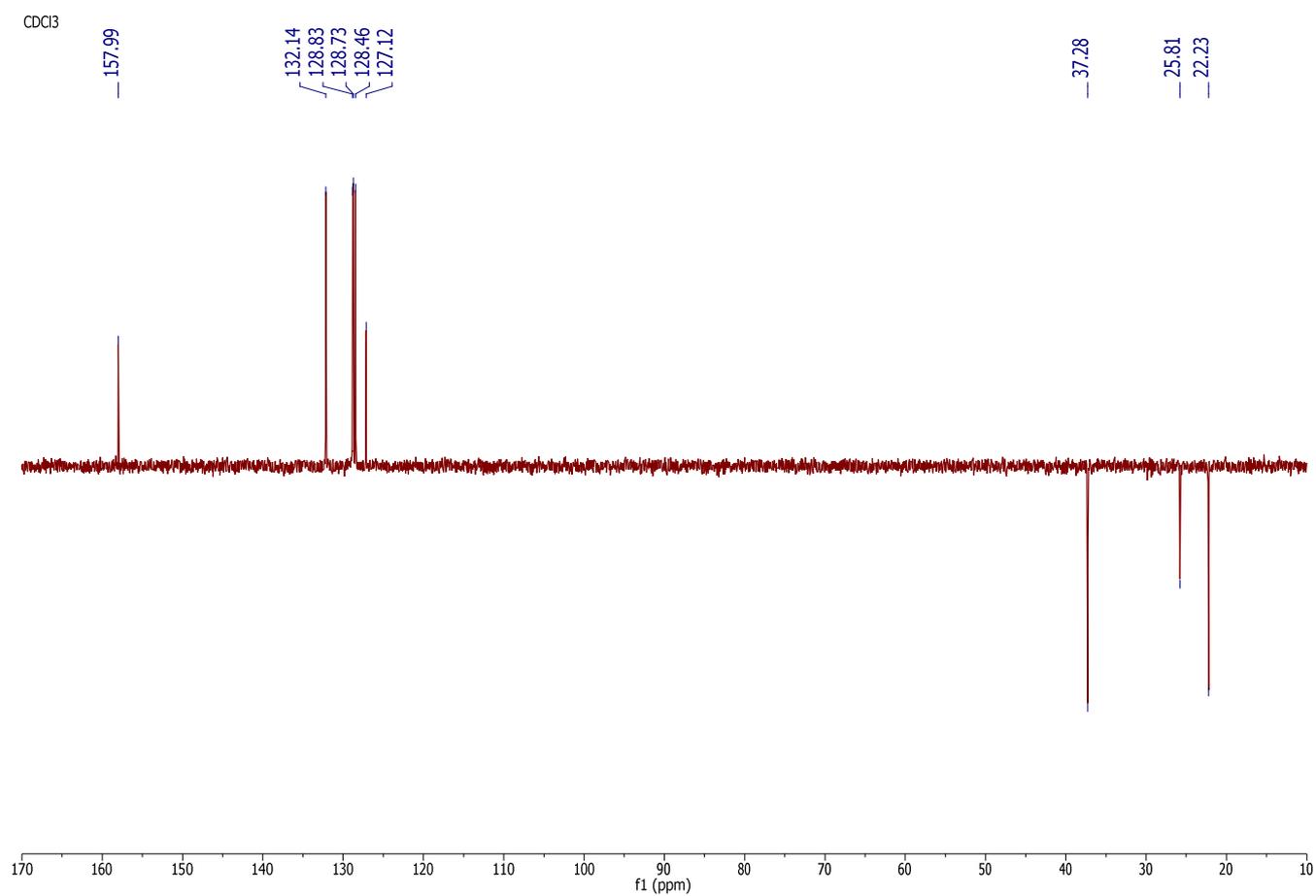
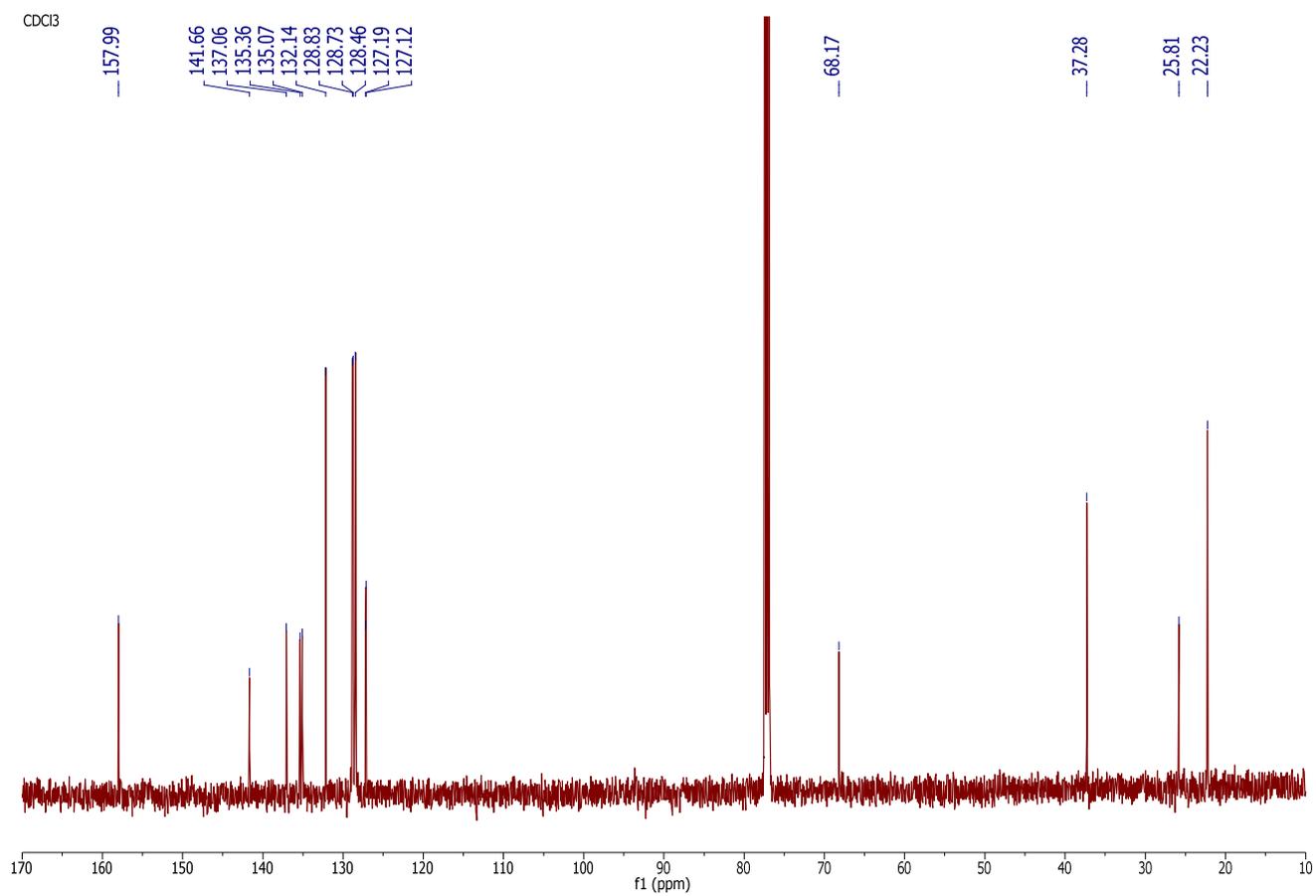


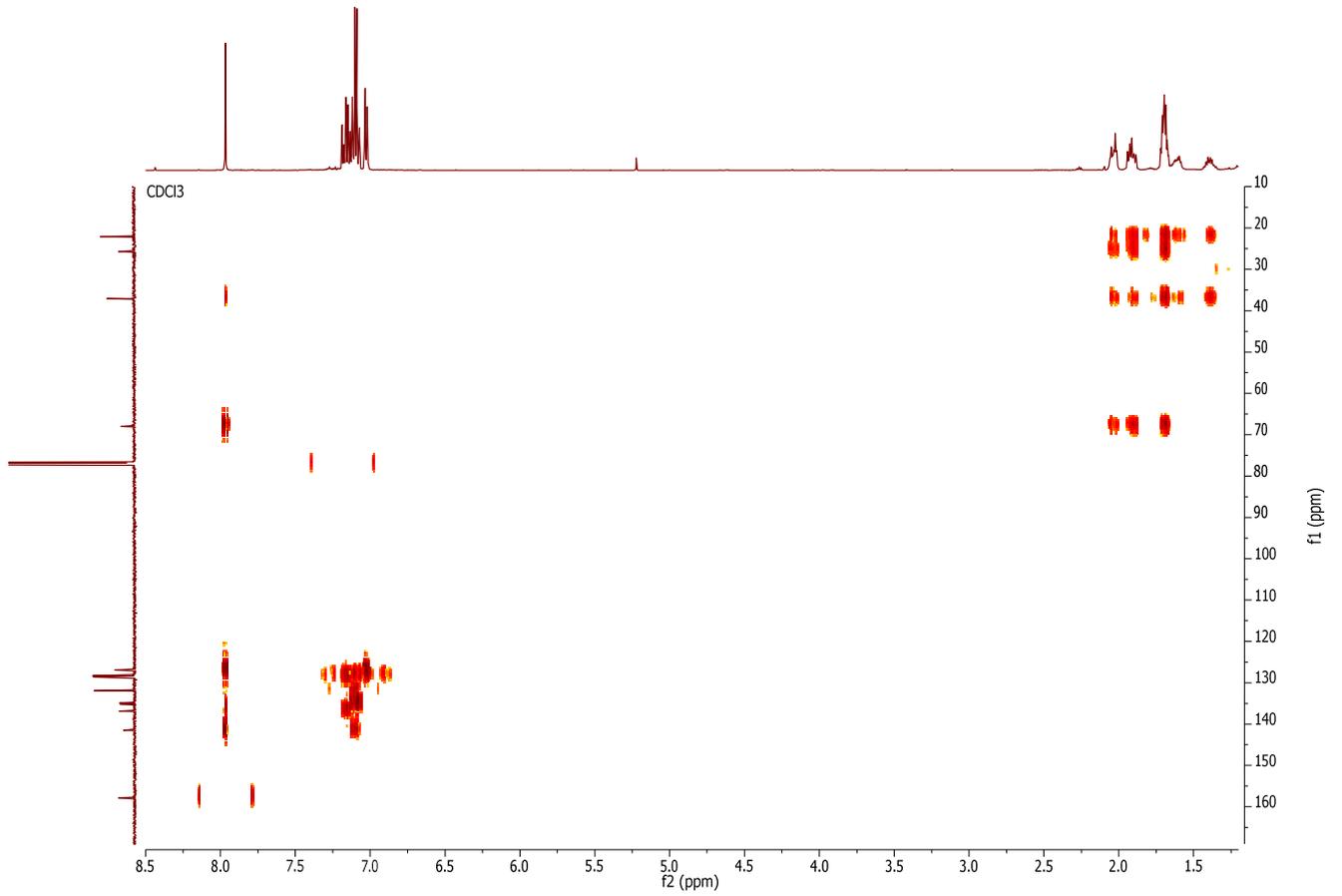
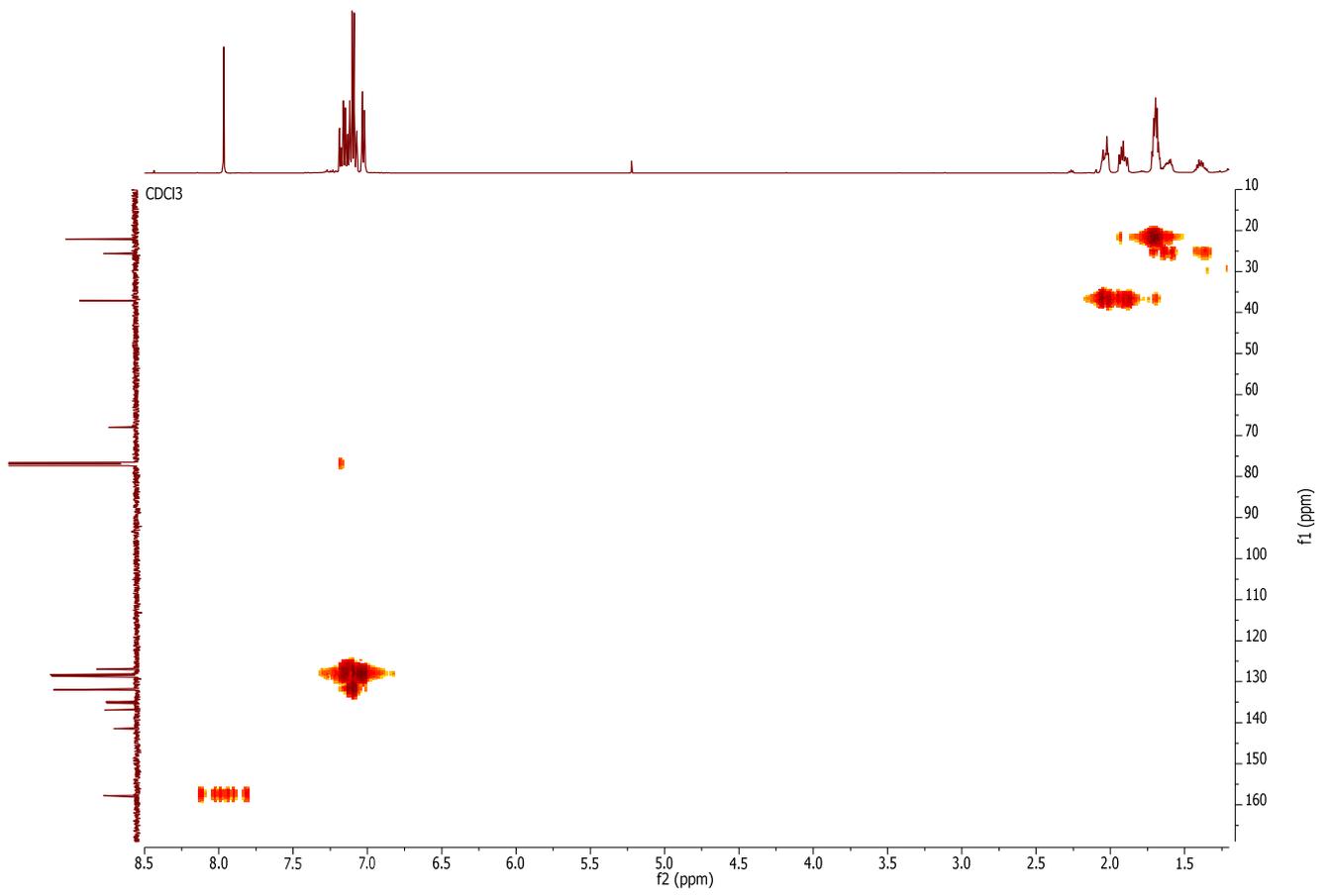


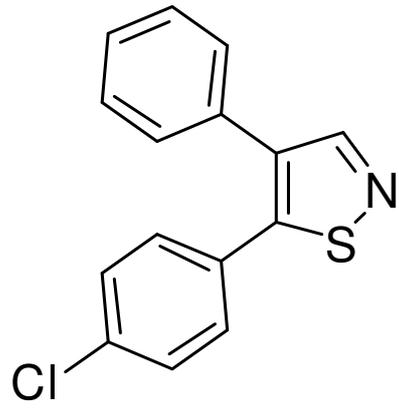


2g







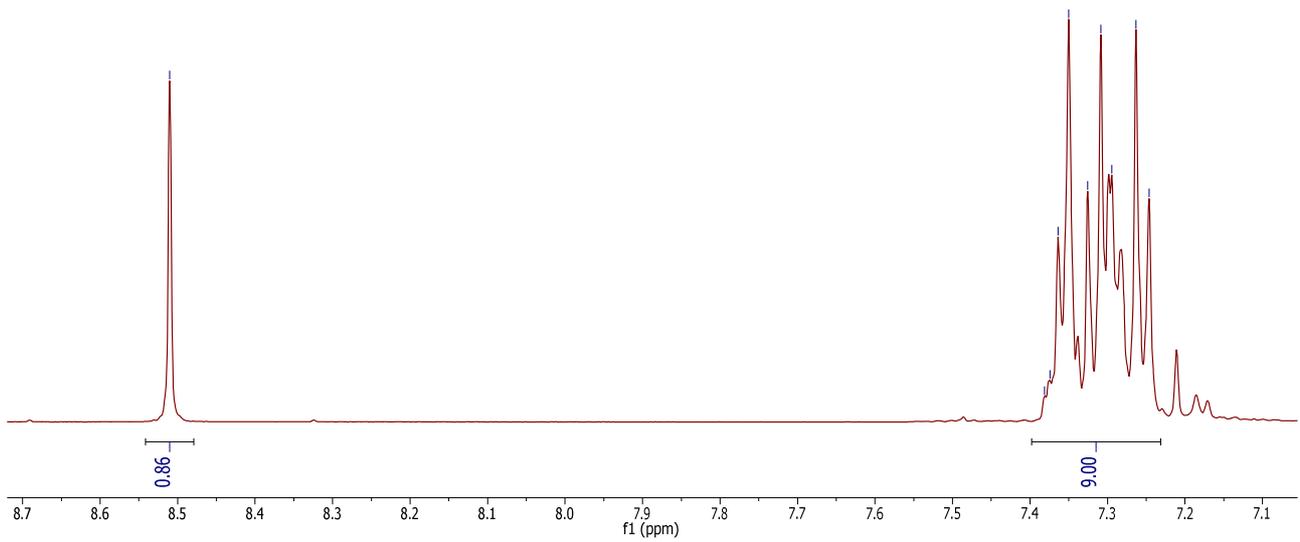


3b

CDCl₃

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7.26
7.25



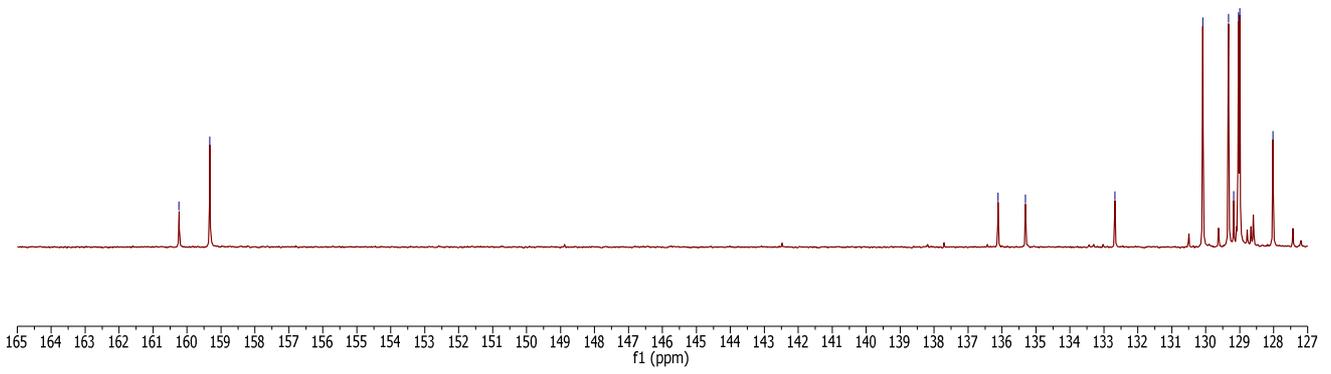
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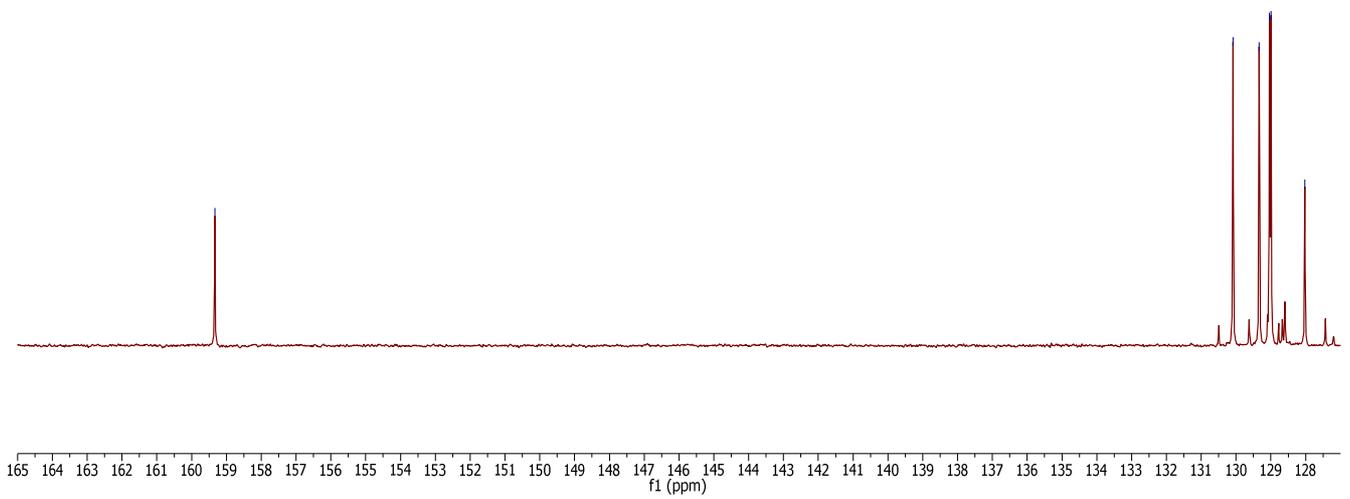
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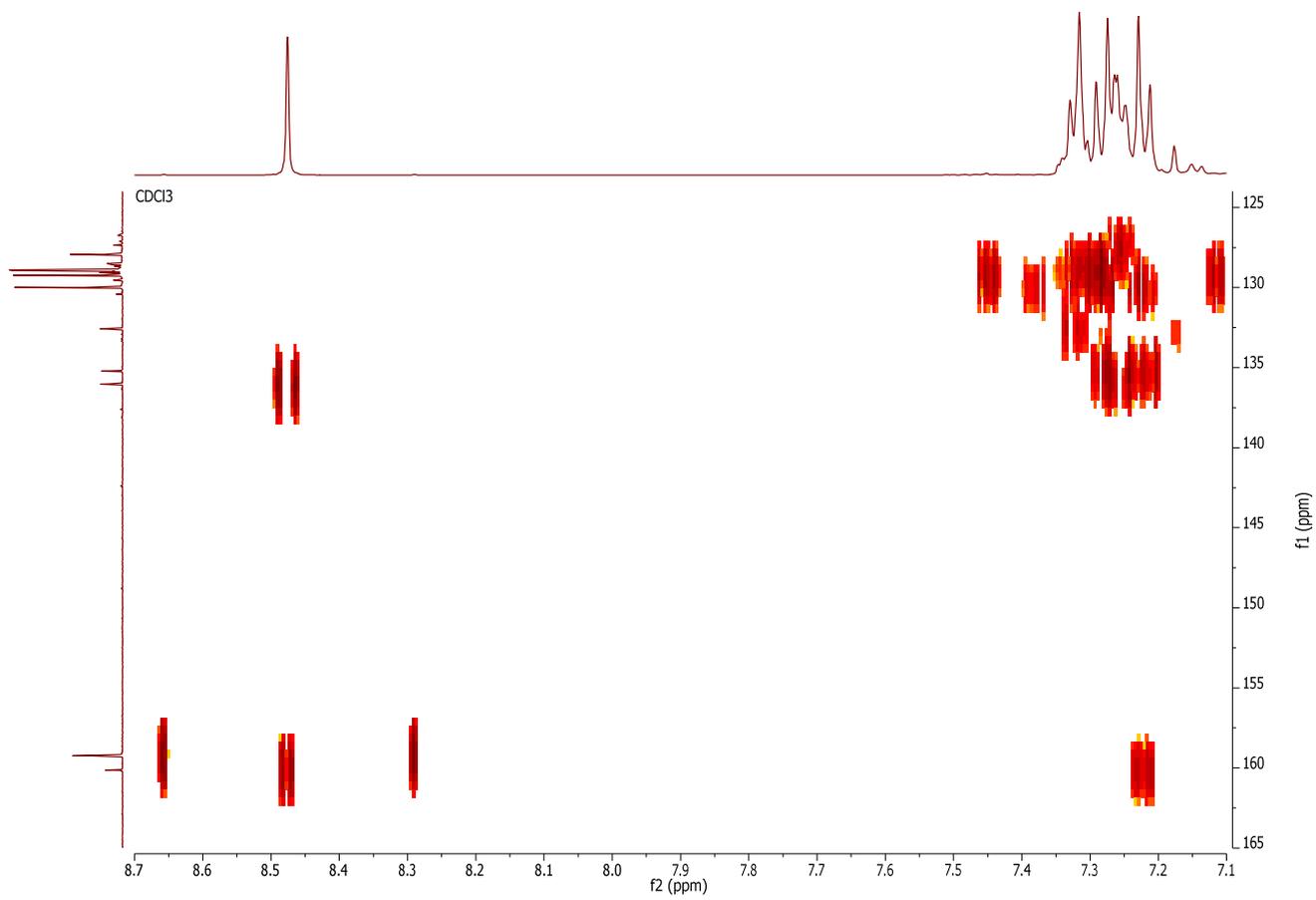
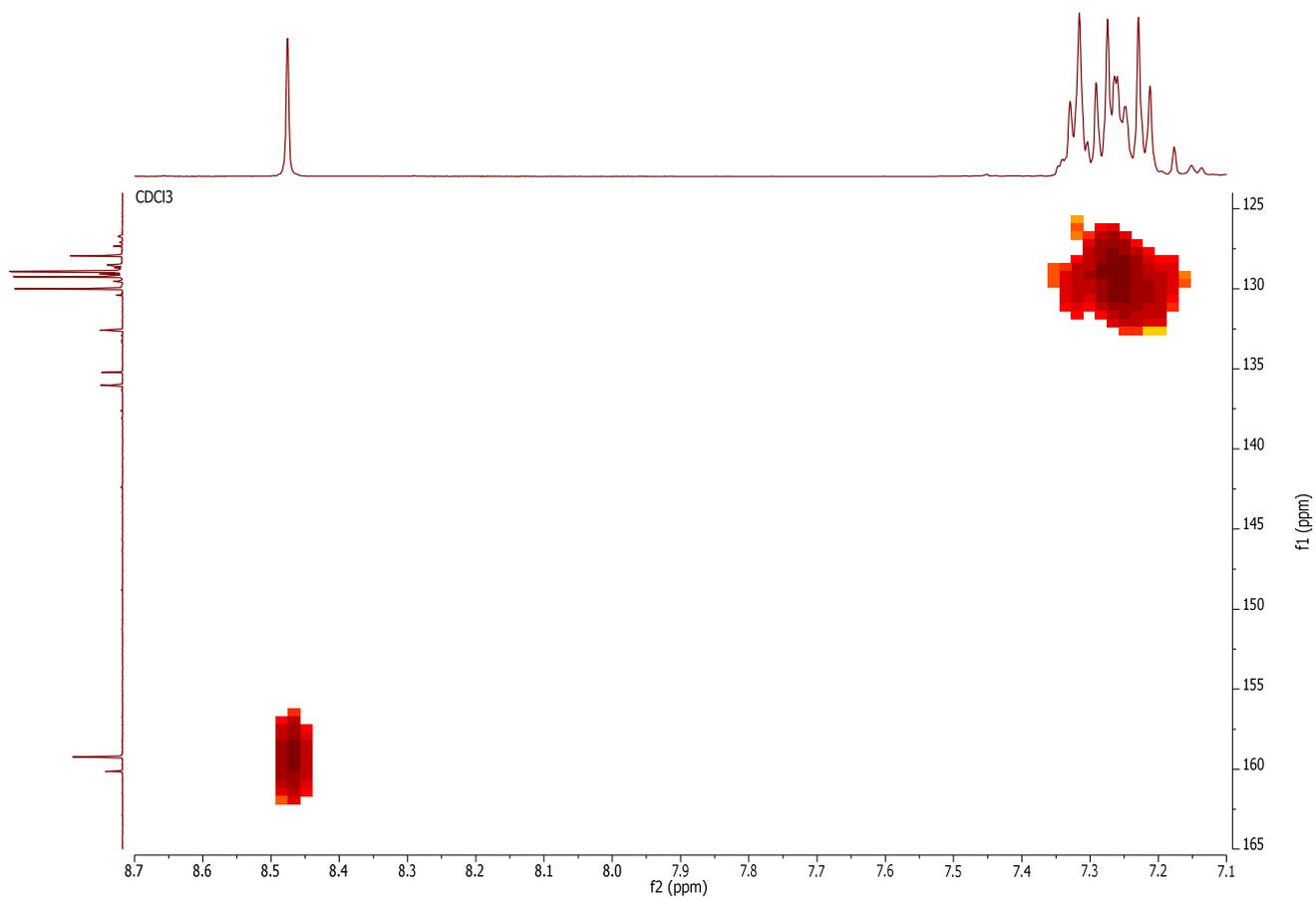


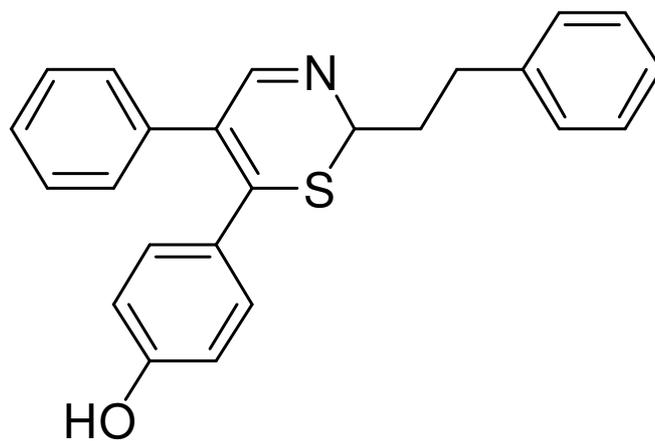
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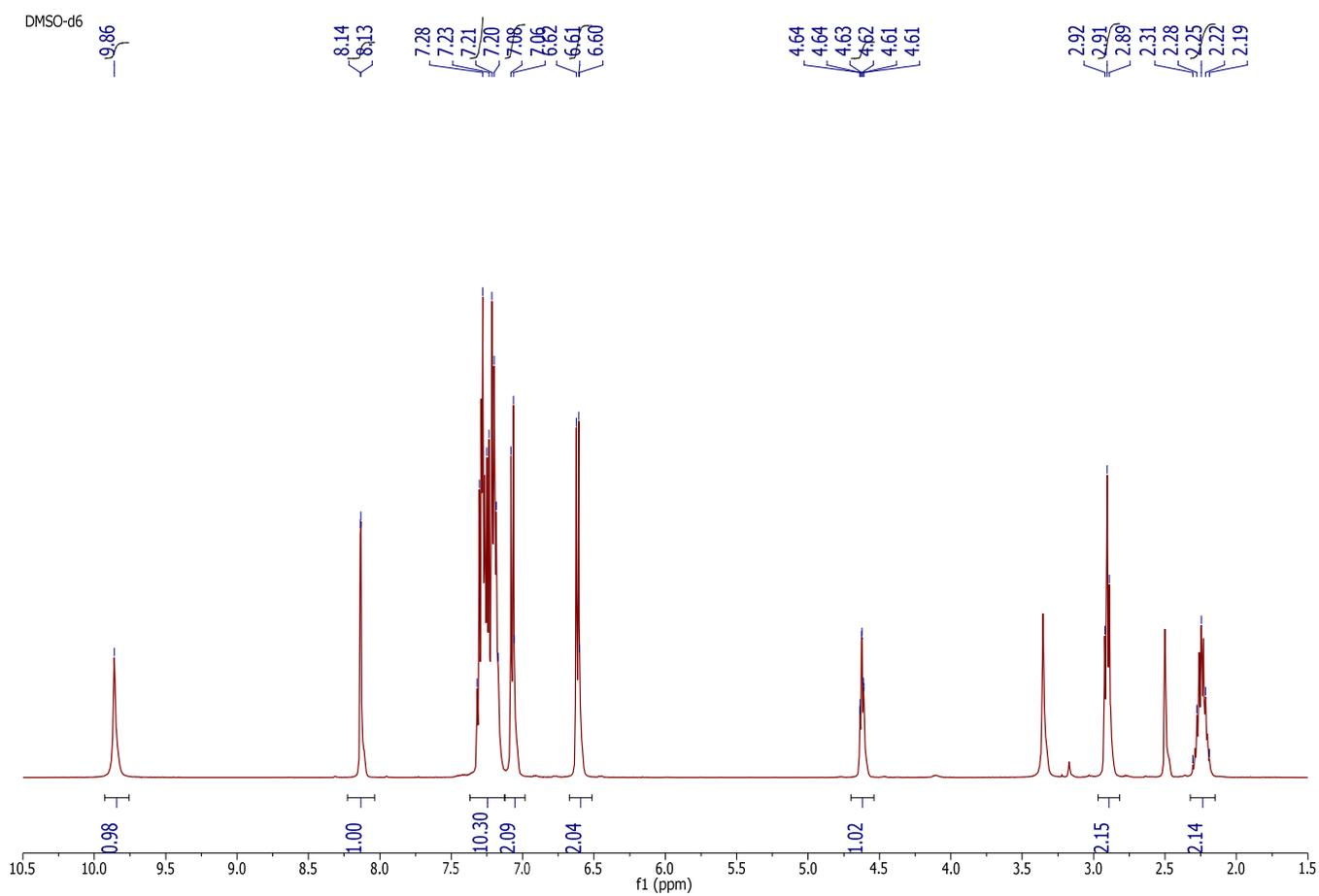
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2h



DMSO-d6

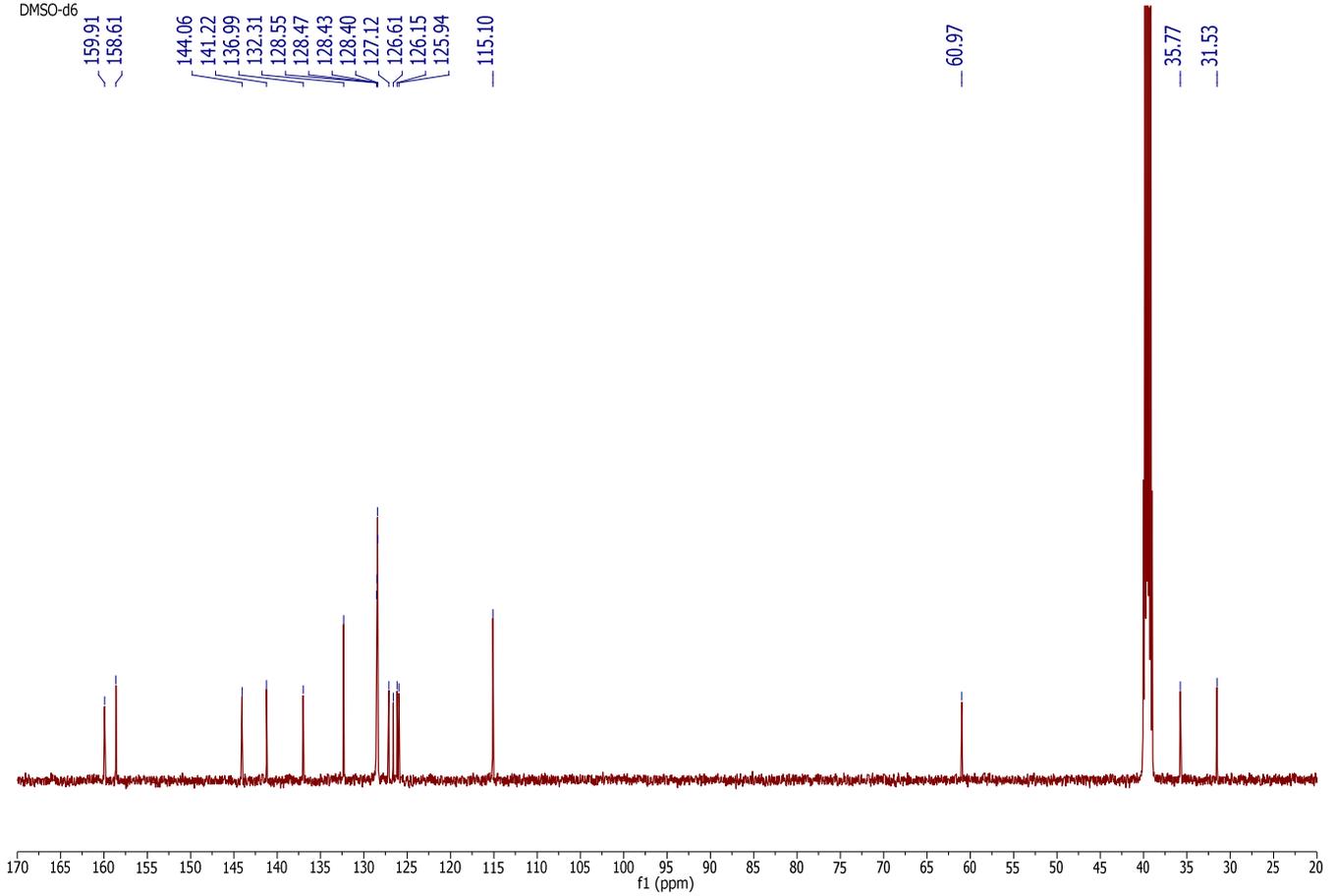
159.91
158.61

144.06
141.22
136.99
132.31
128.55
128.47
128.43
128.40
127.12
126.61
126.15
125.94

115.10

60.97

35.77
31.53



DMSO-d6

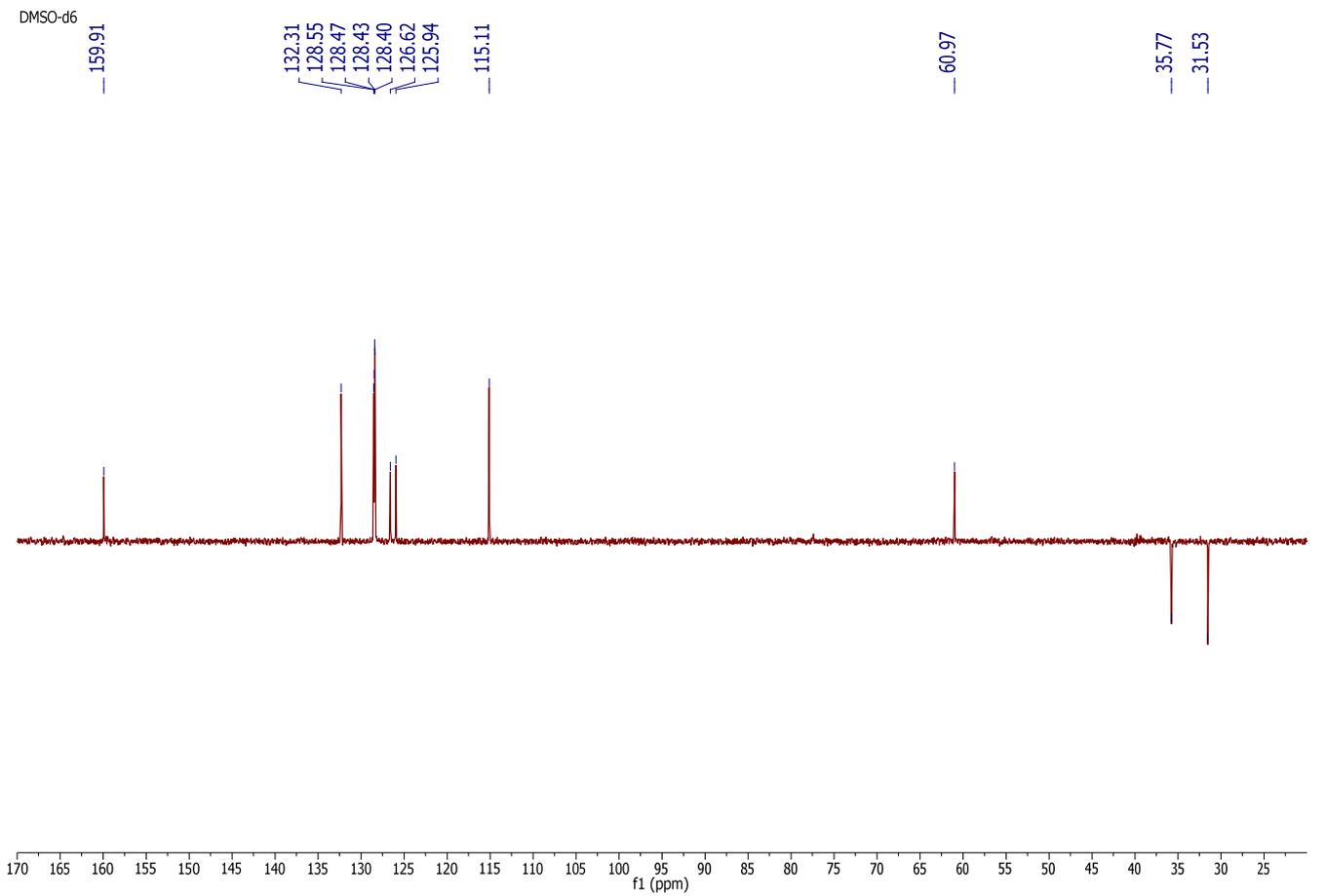
159.91

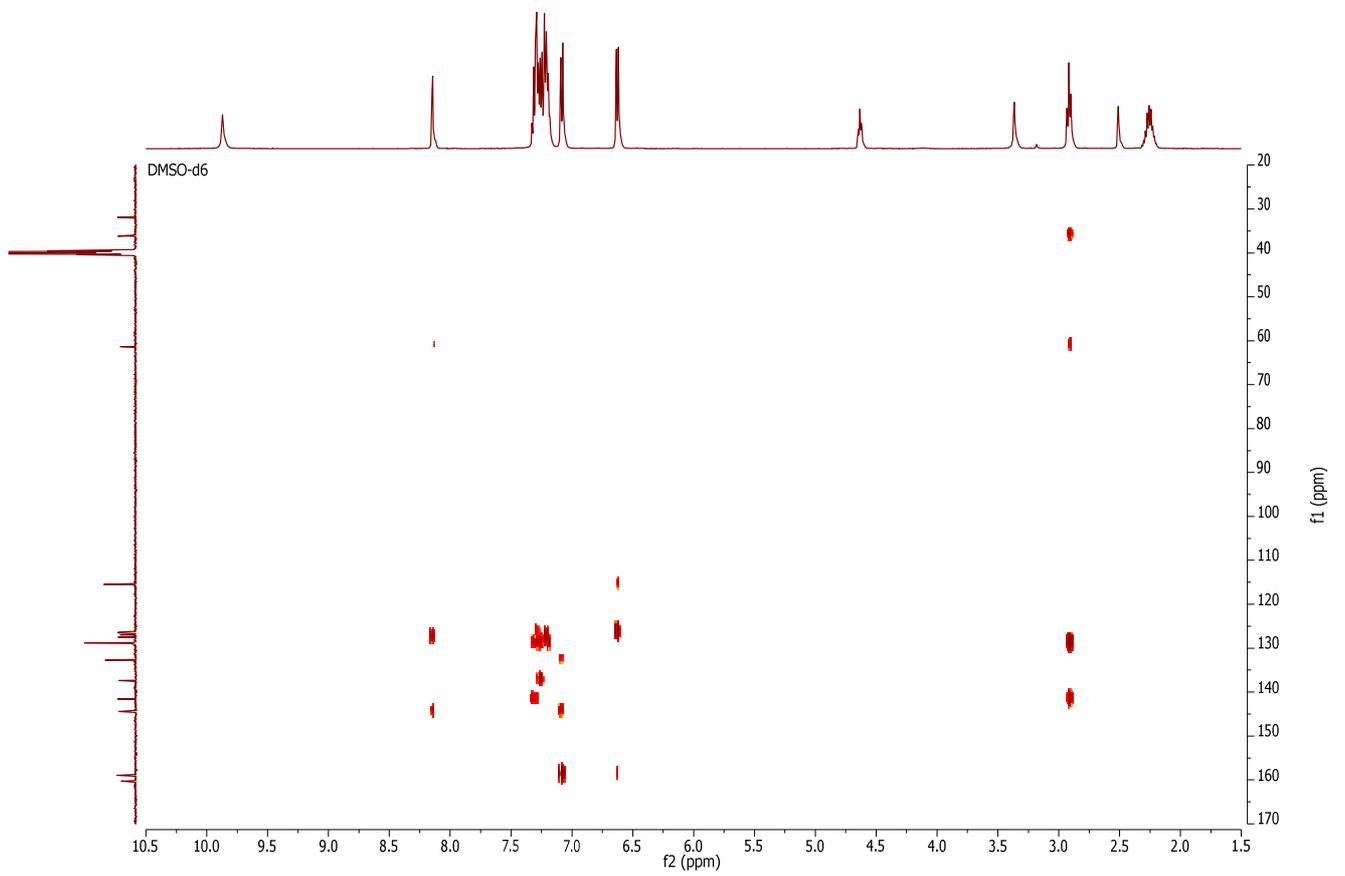
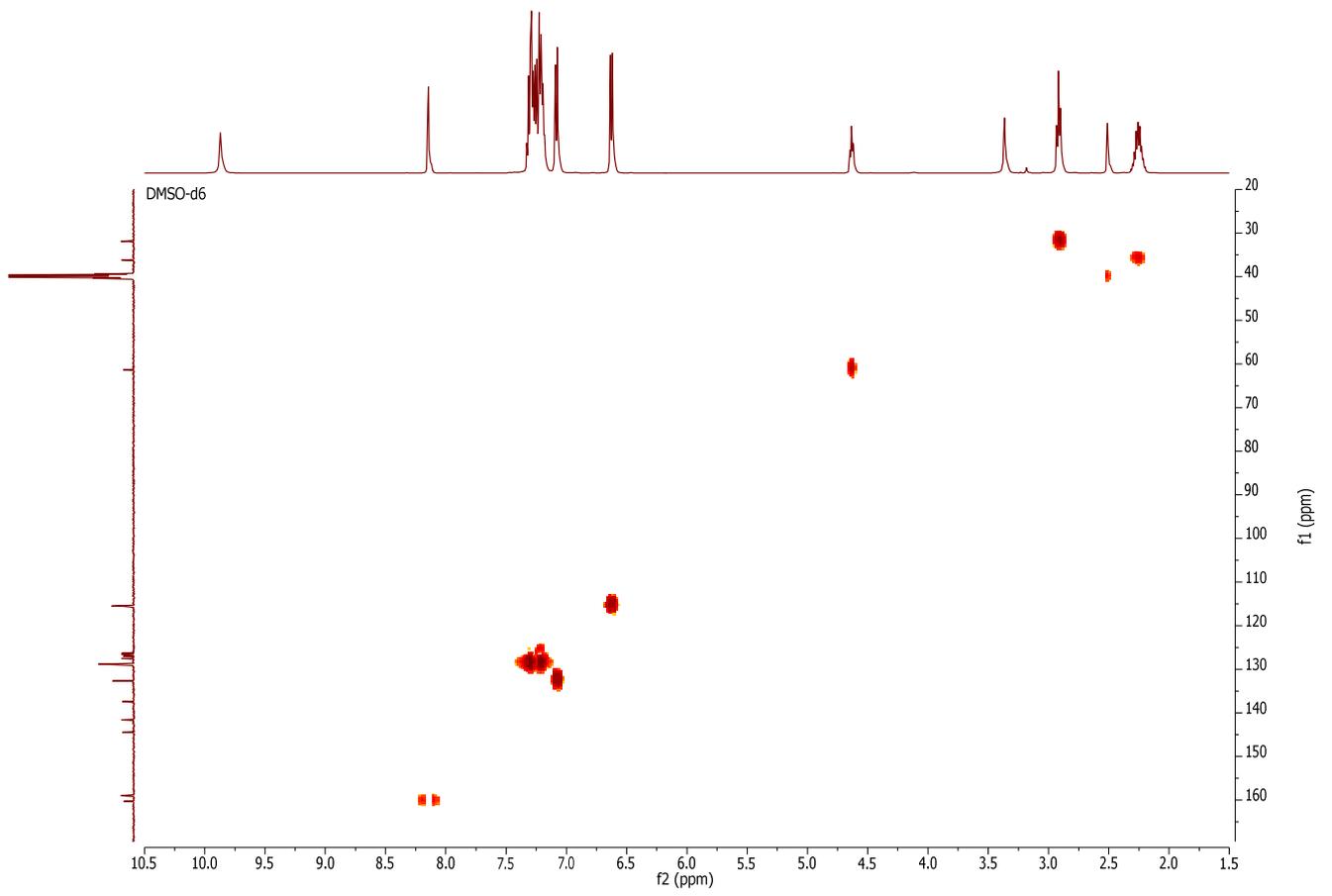
132.31
128.55
128.47
128.43
128.40
126.62
125.94

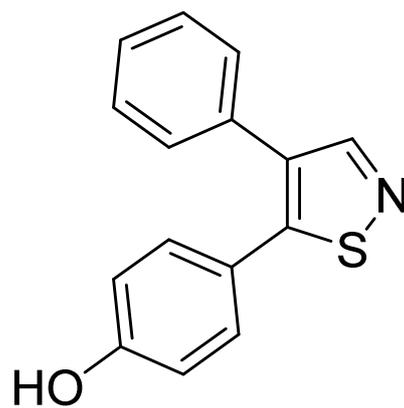
115.11

60.97

35.77
31.53







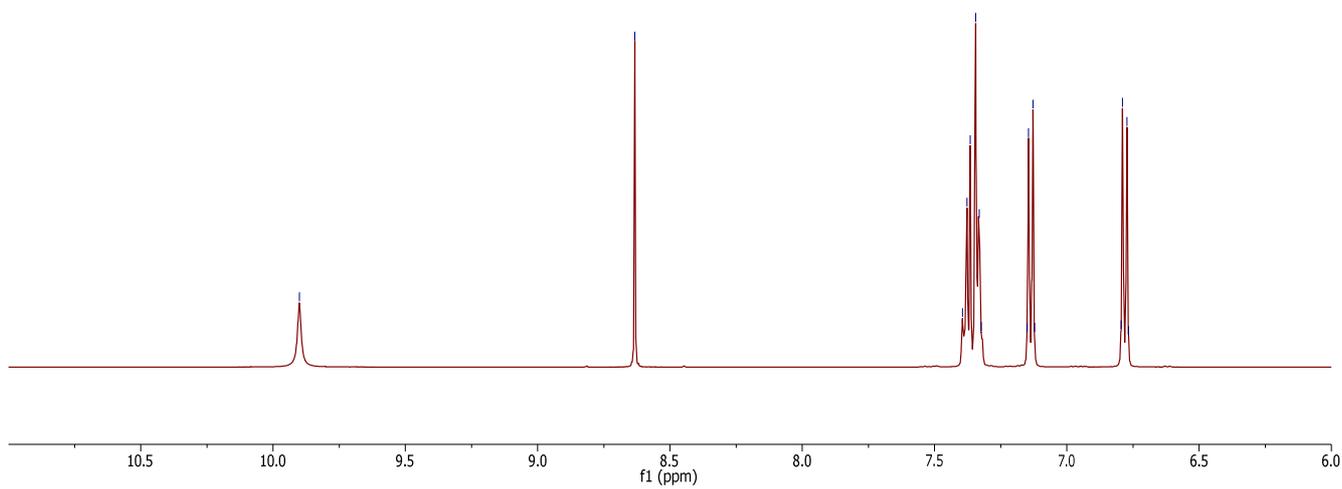
3c

DMSO-d6

9.90

8.63

7.39
7.38
7.37
7.35
7.33
7.32
7.15
7.15
7.13
7.12
6.80
6.79
6.77
6.77



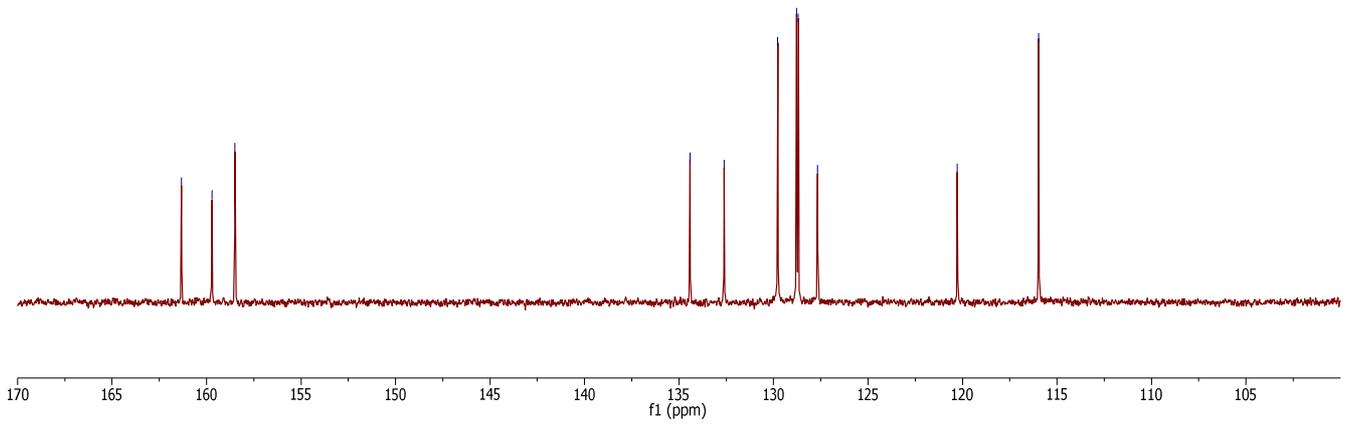
DMSO-d6

161.33
159.72
158.50

134.42
132.61
129.78
128.78
128.69
127.67

120.27

115.97

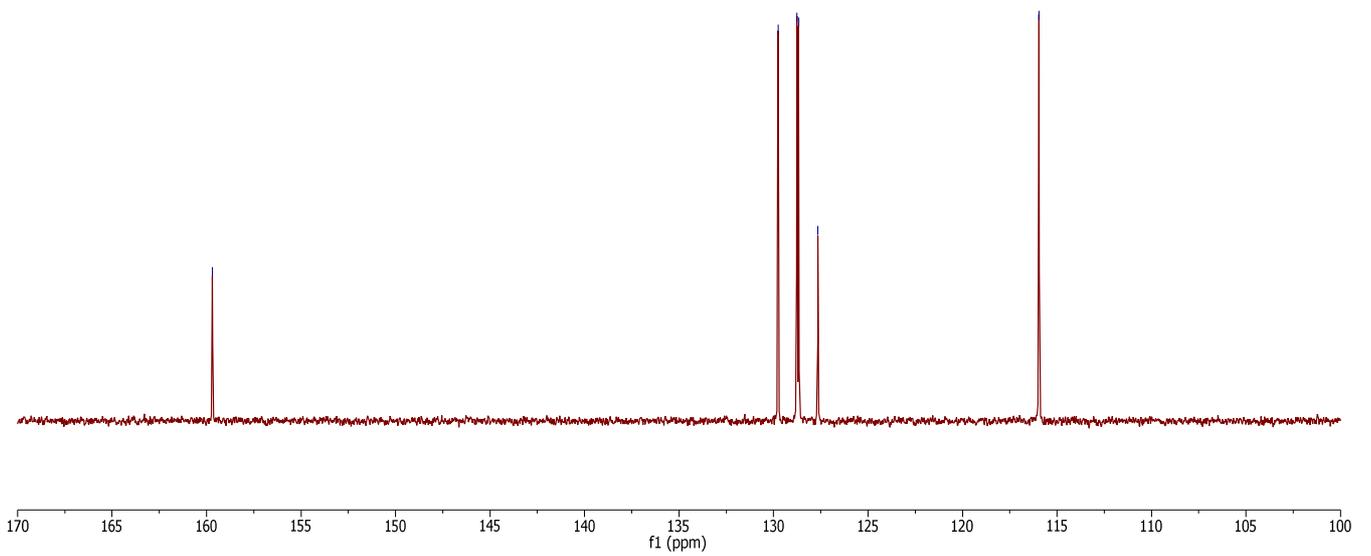


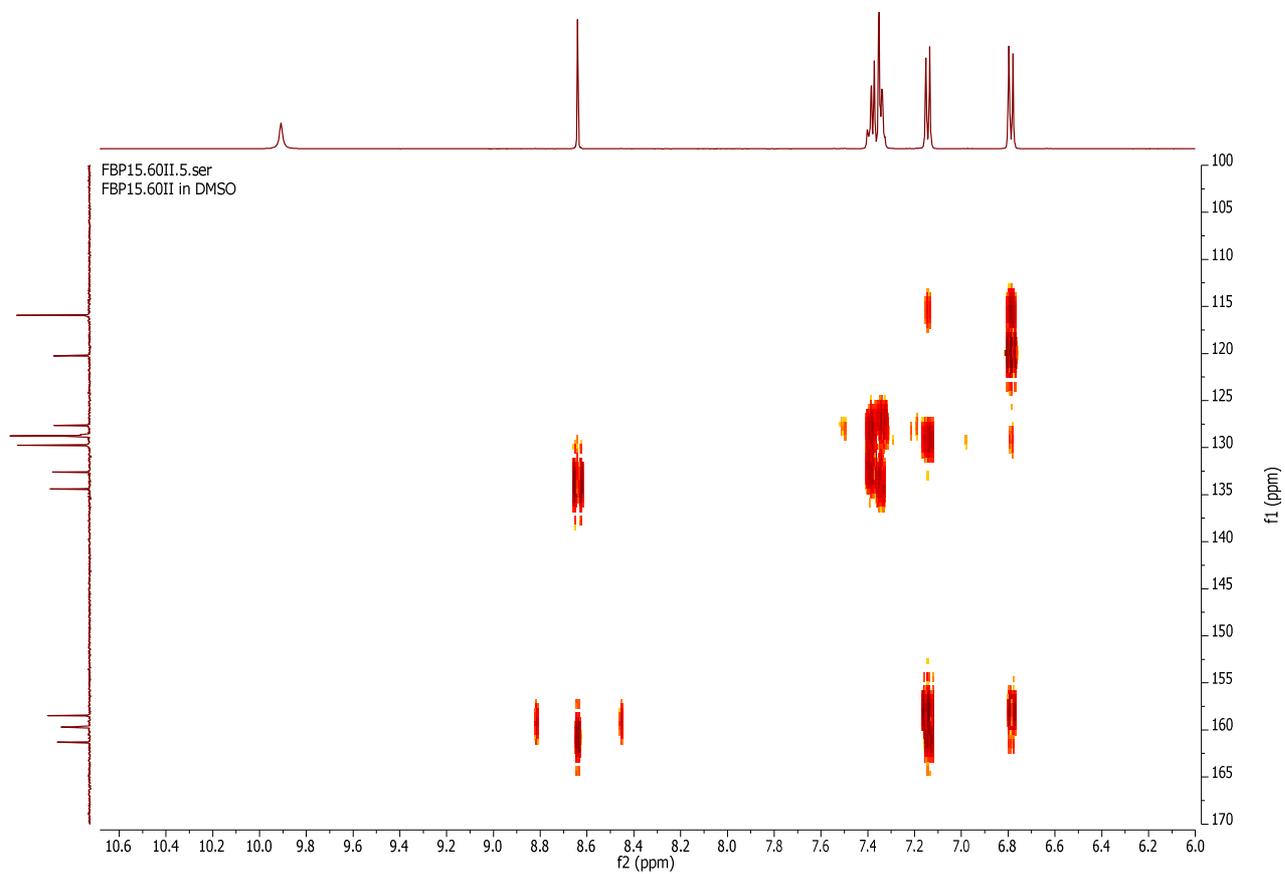
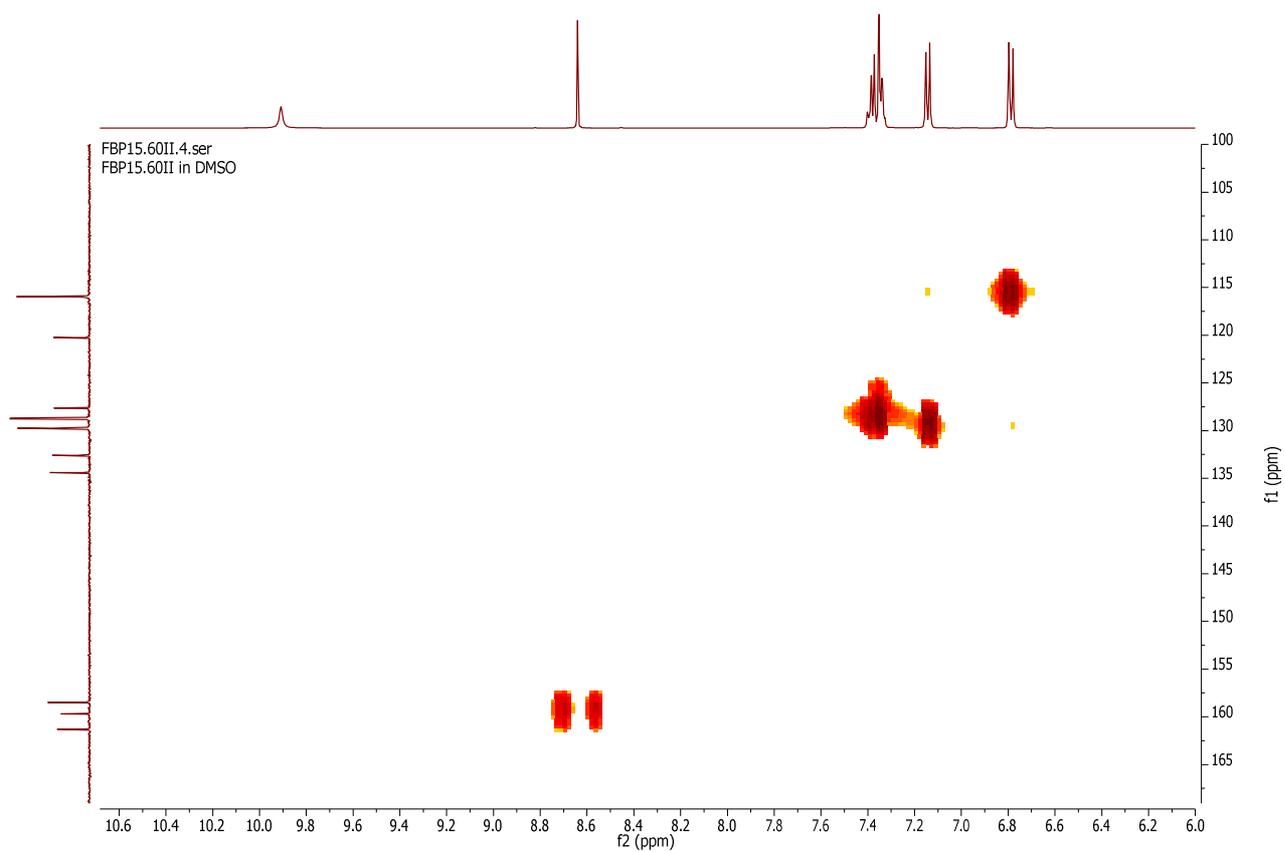
FBP15.60II.3.fid
FBP15.60II in DMSO

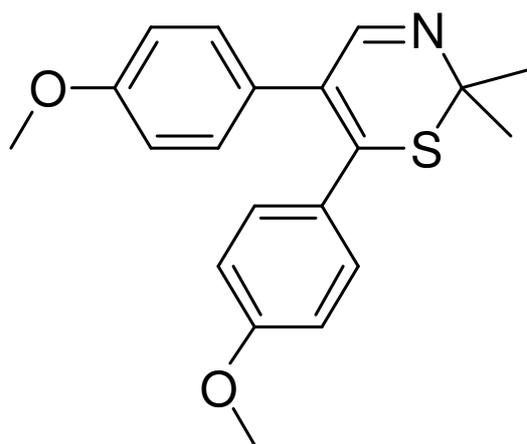
159.70

129.76
128.76
128.67
127.65

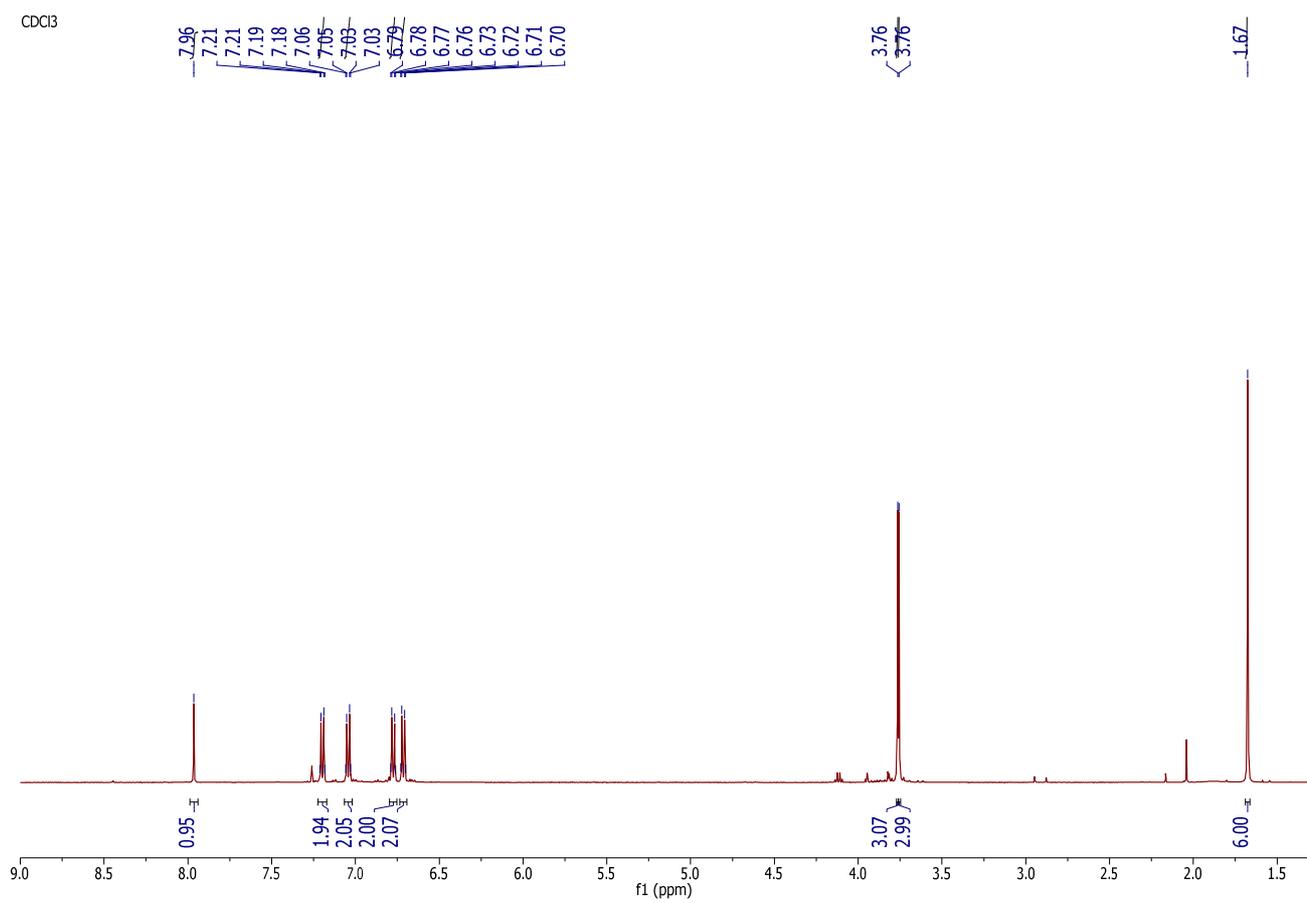
115.95

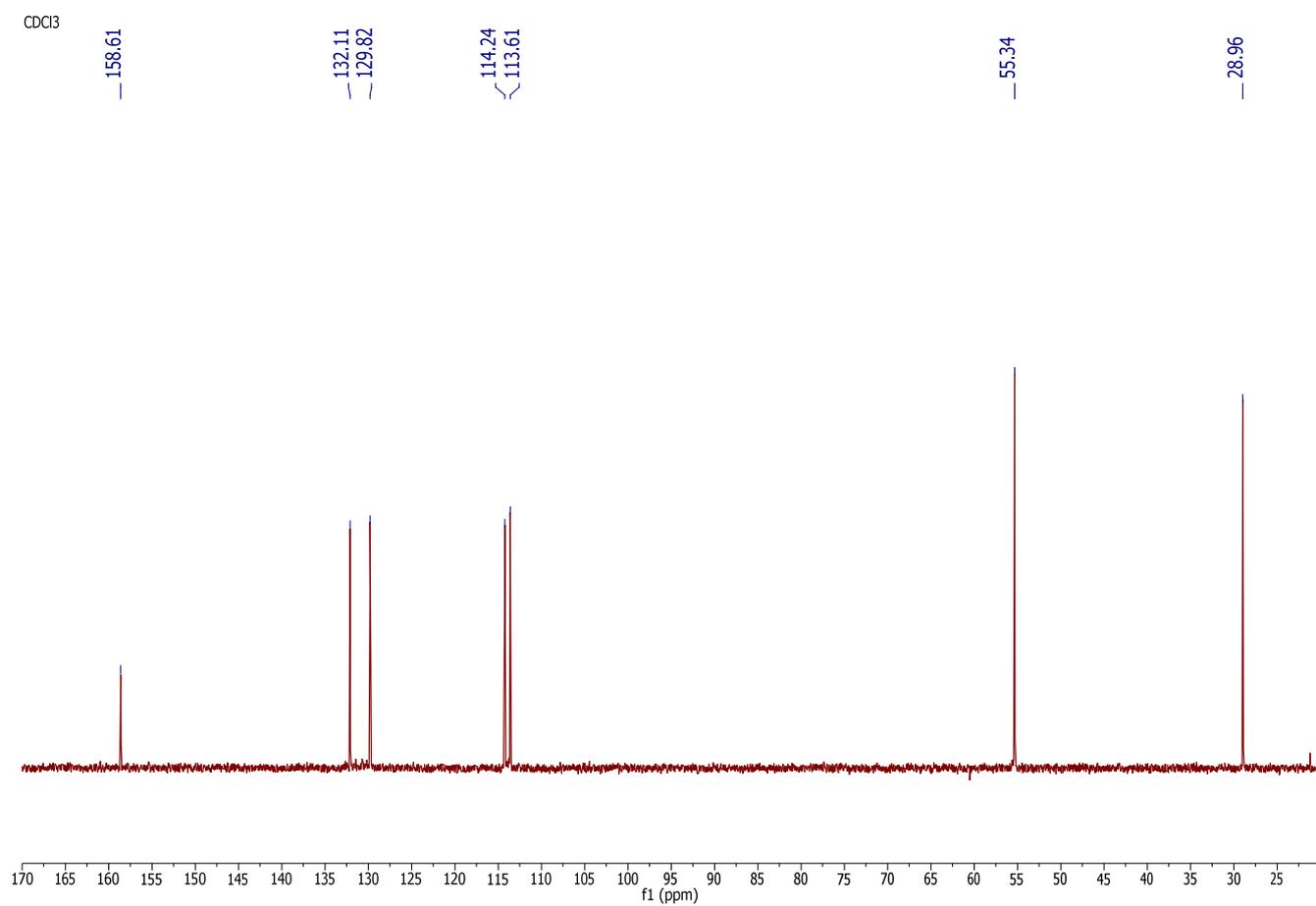
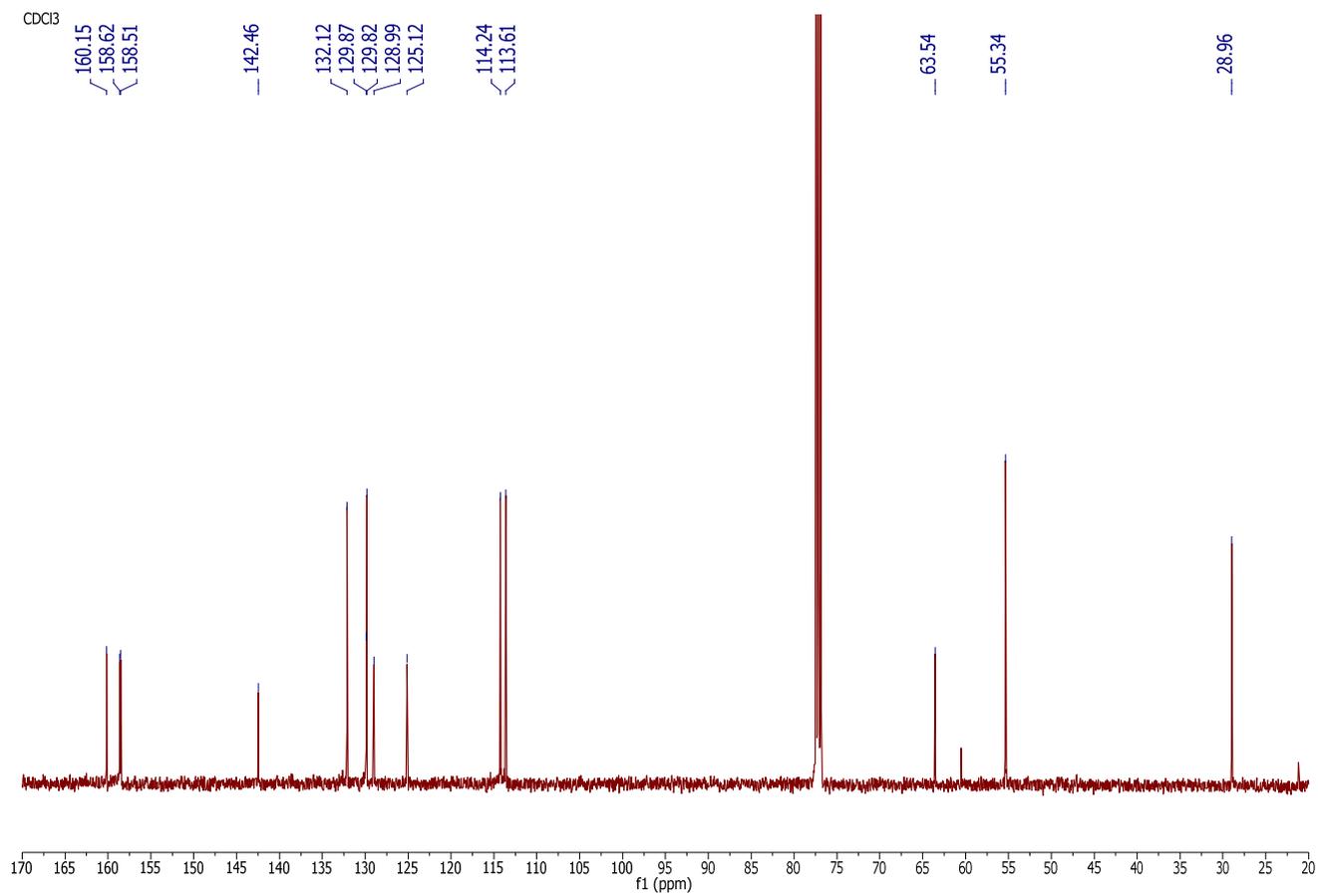


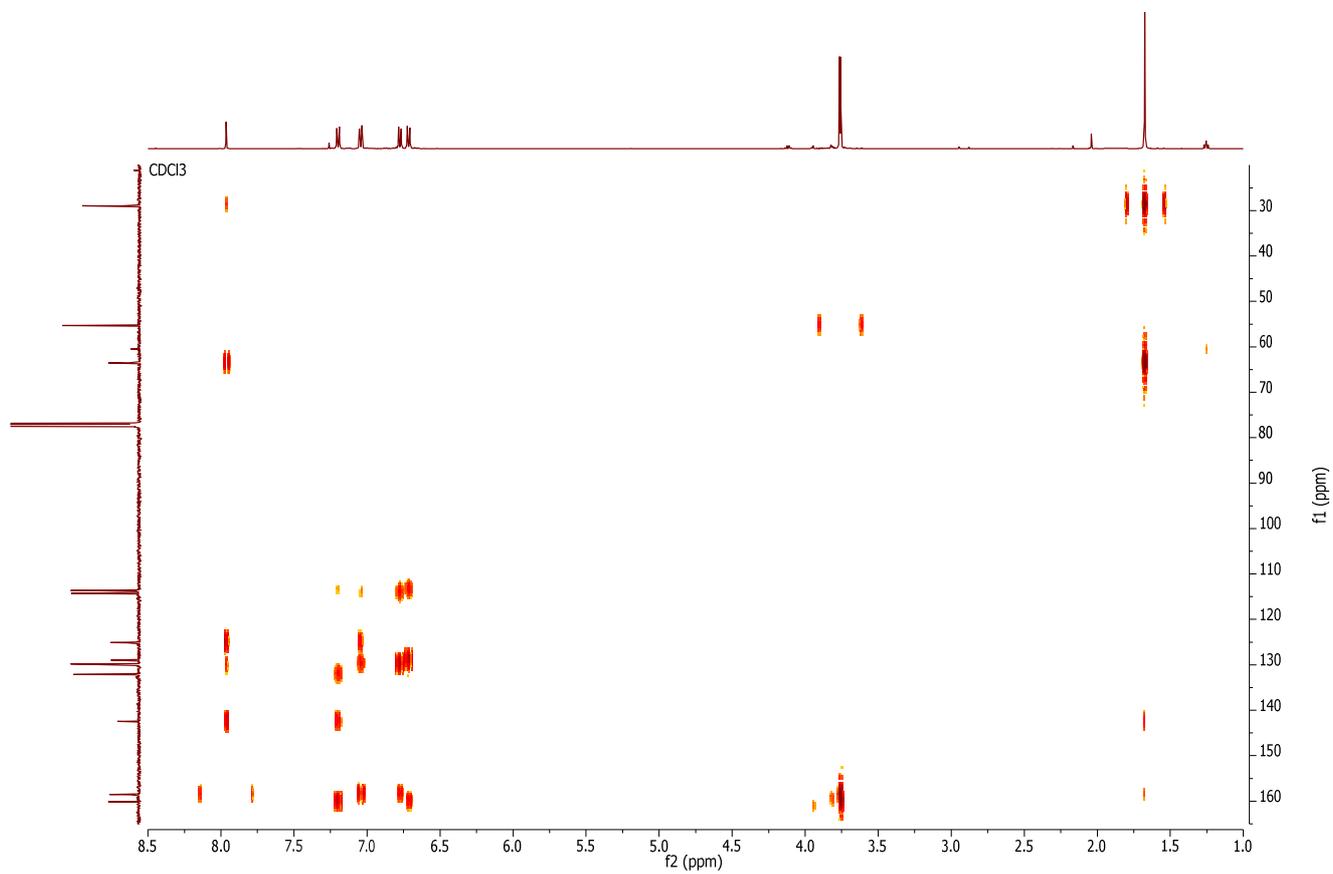
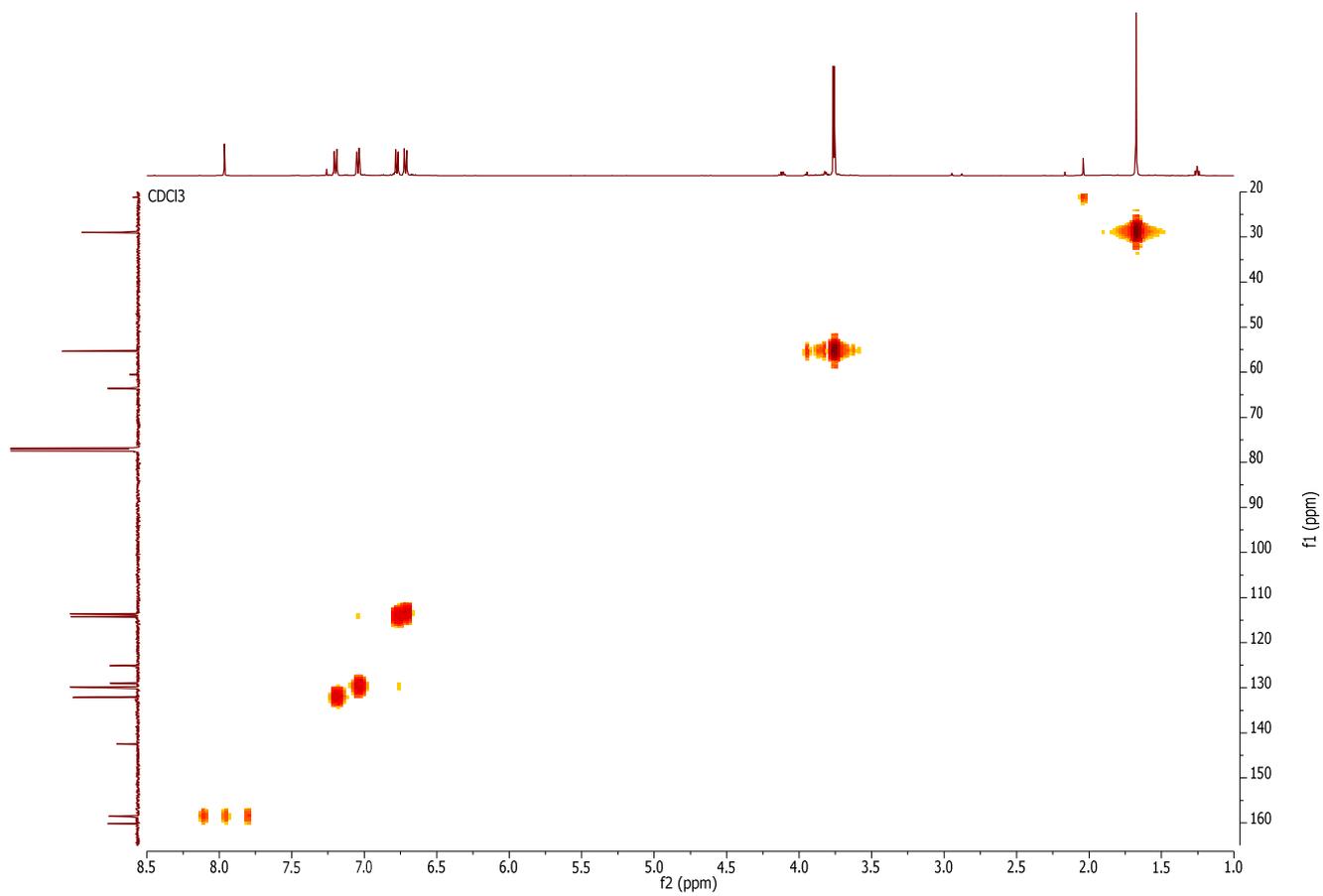


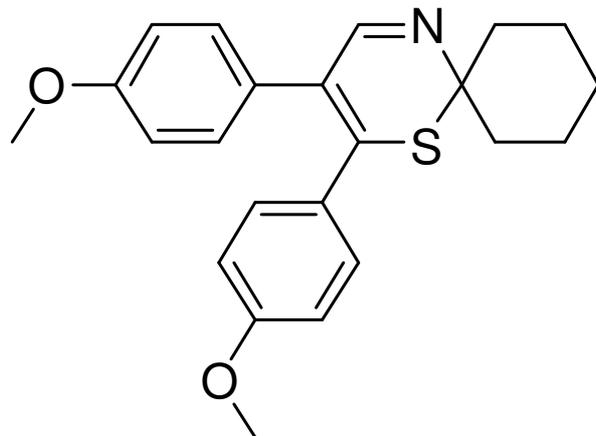


2i

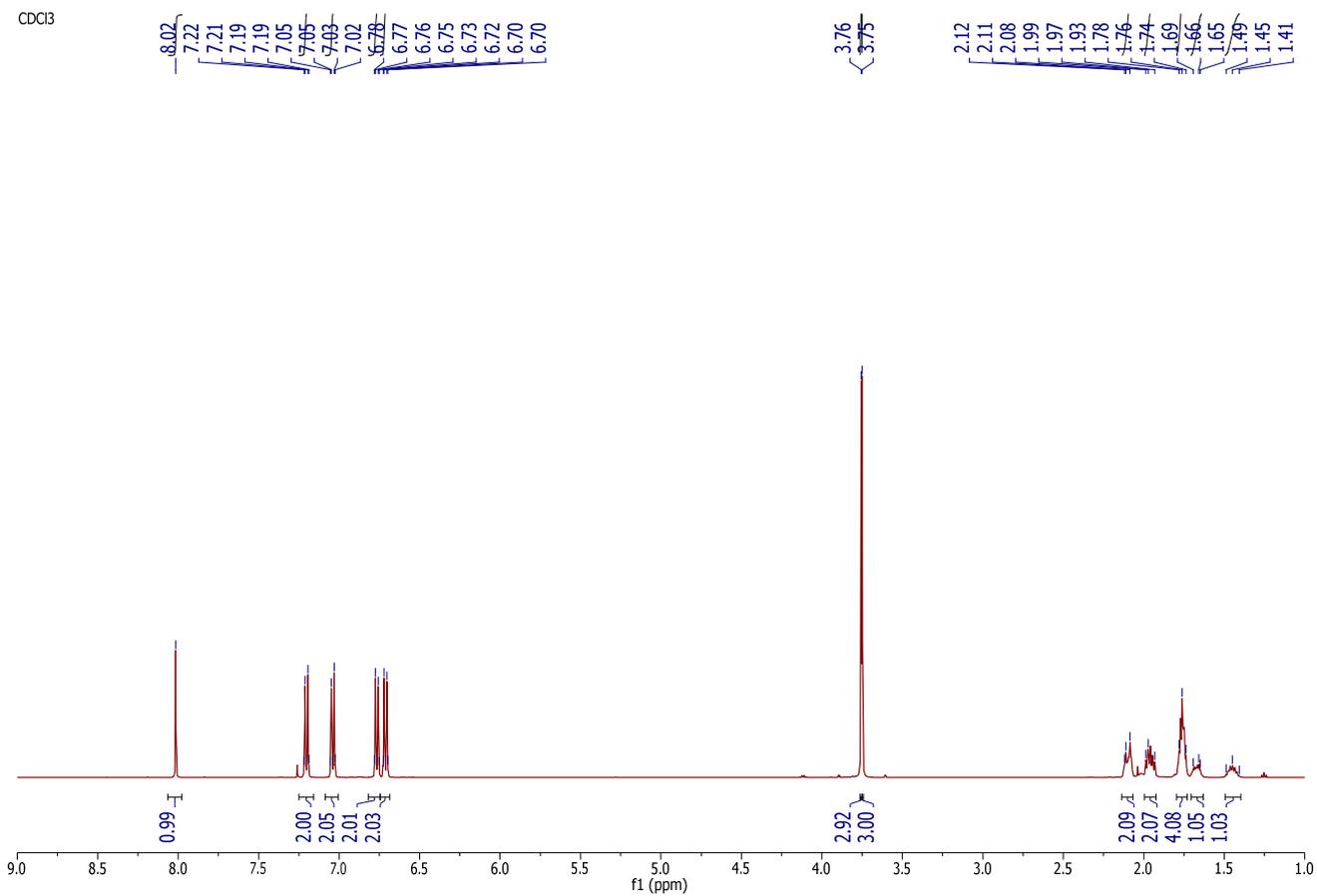


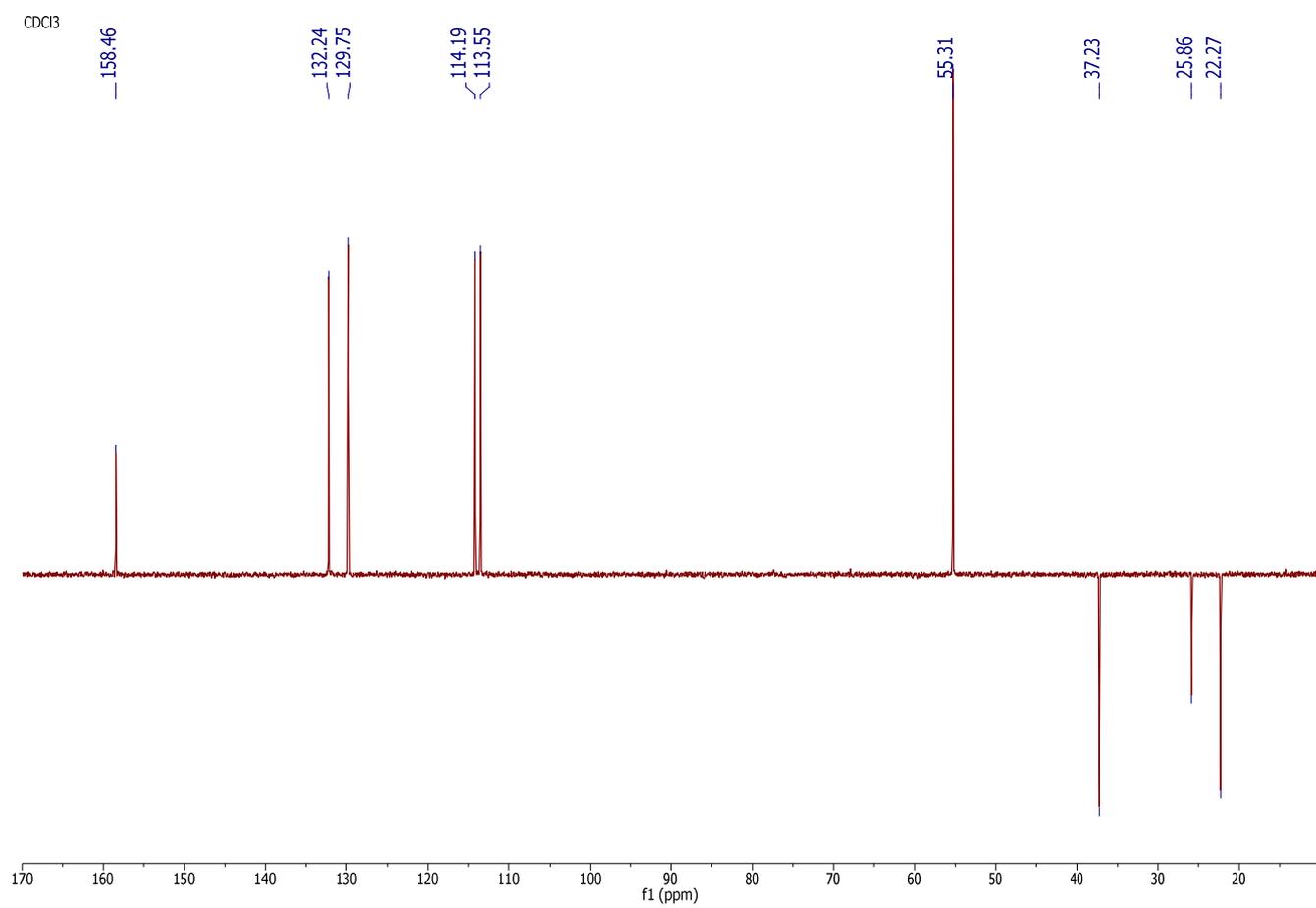
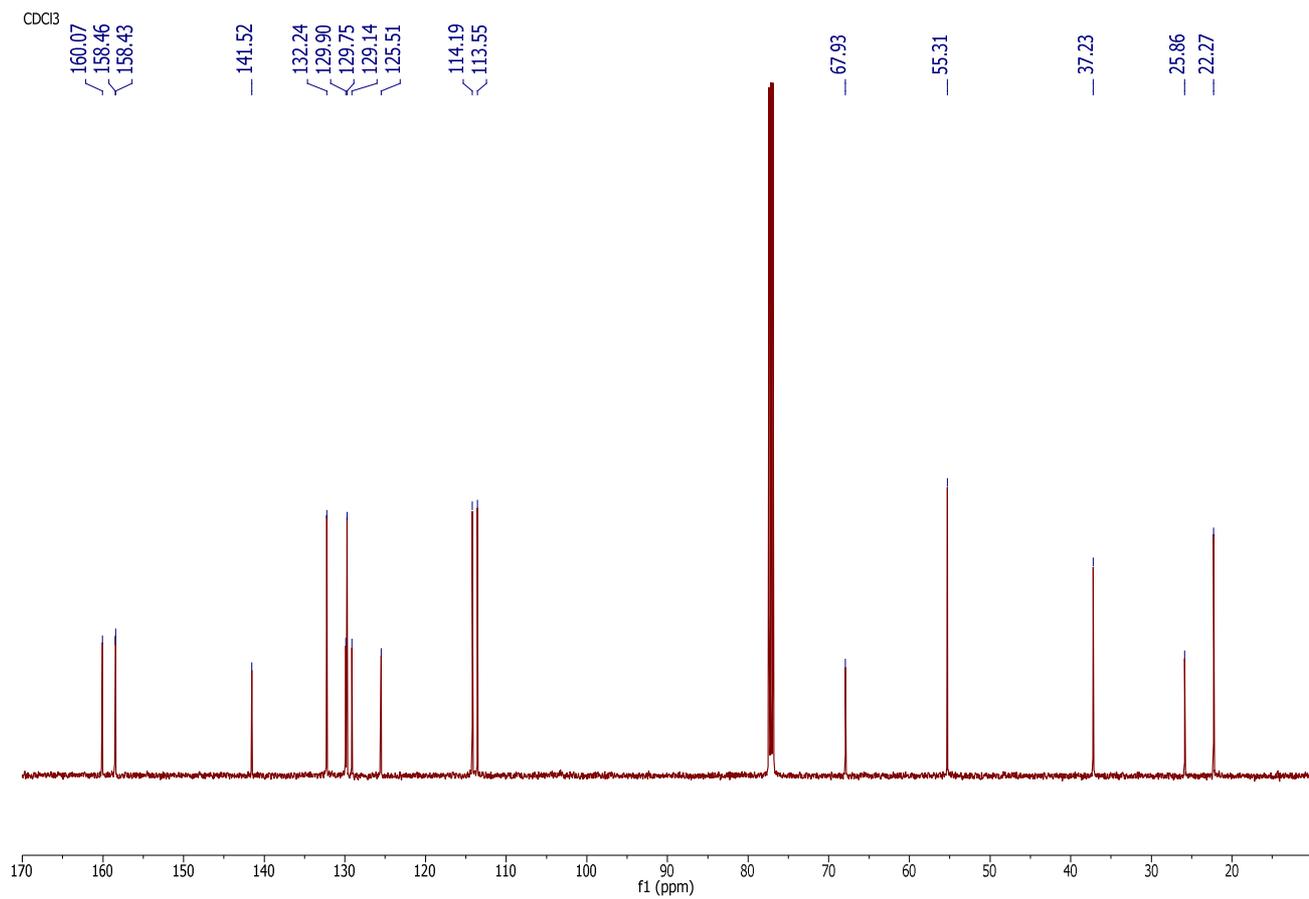


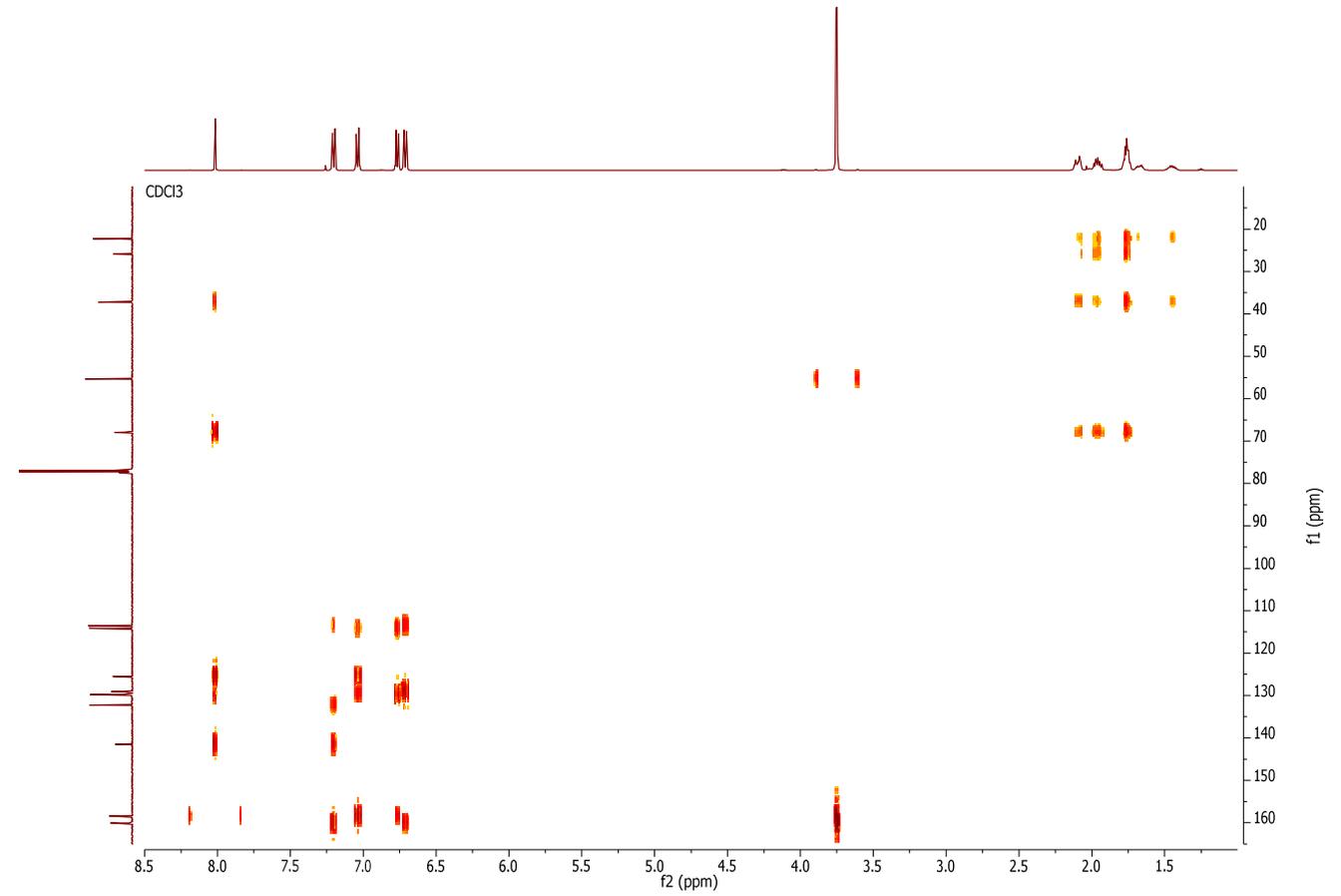
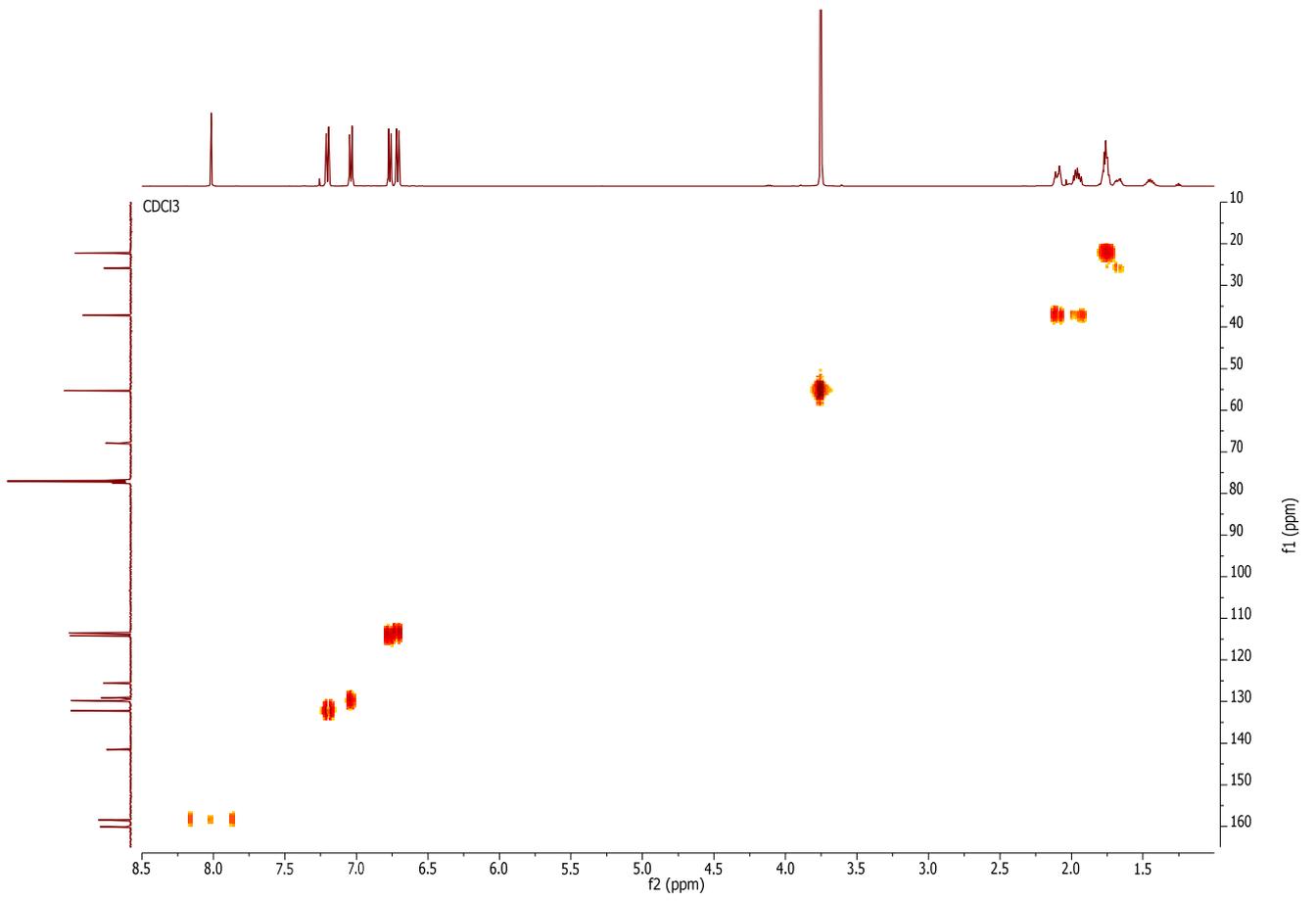


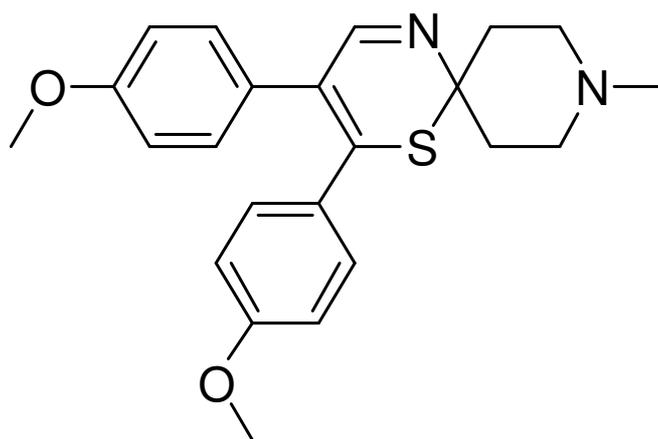


2j

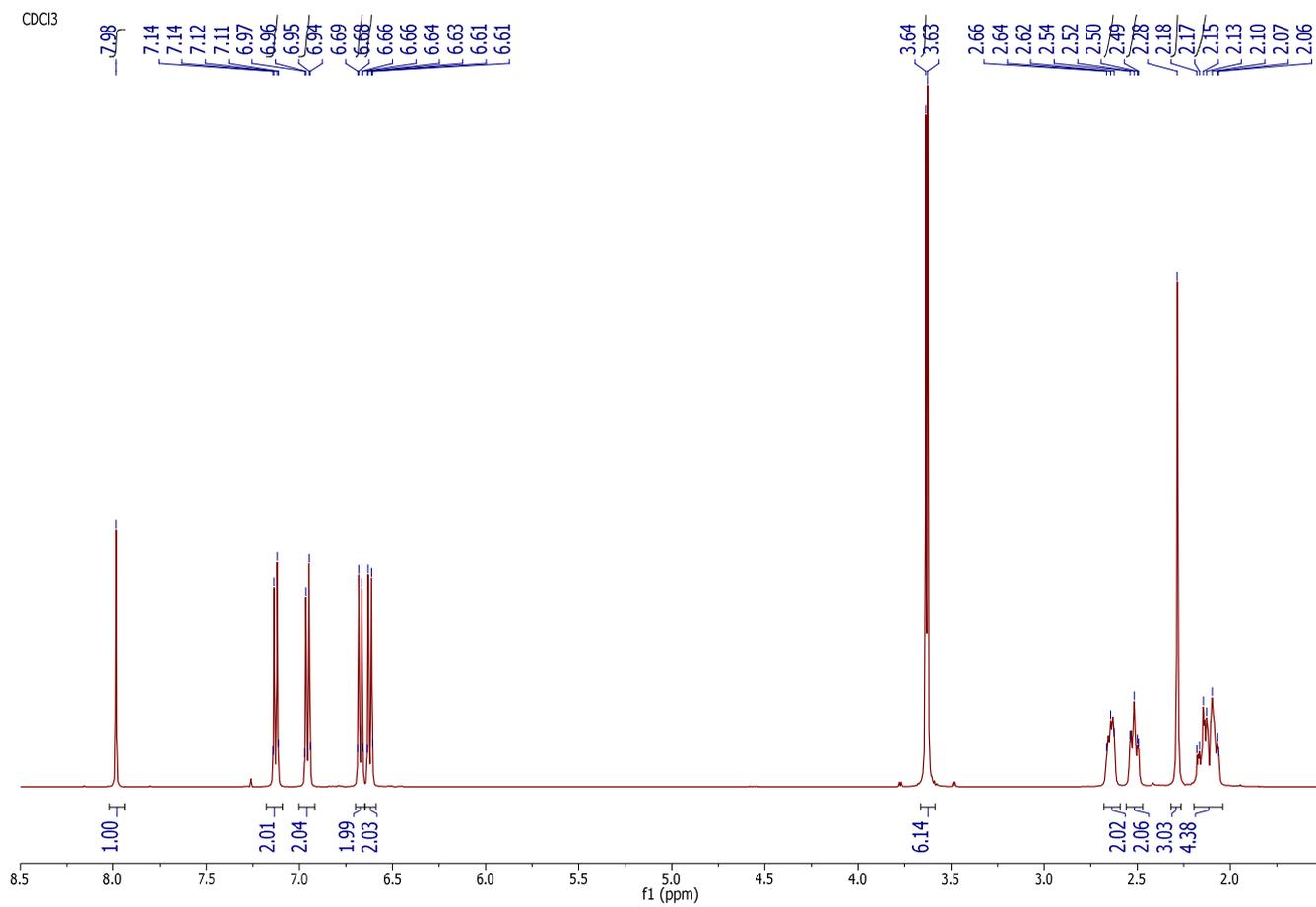








2k



CDCl₃

159.91
158.69
158.24

140.83

131.99
129.43
129.30
128.53
125.46

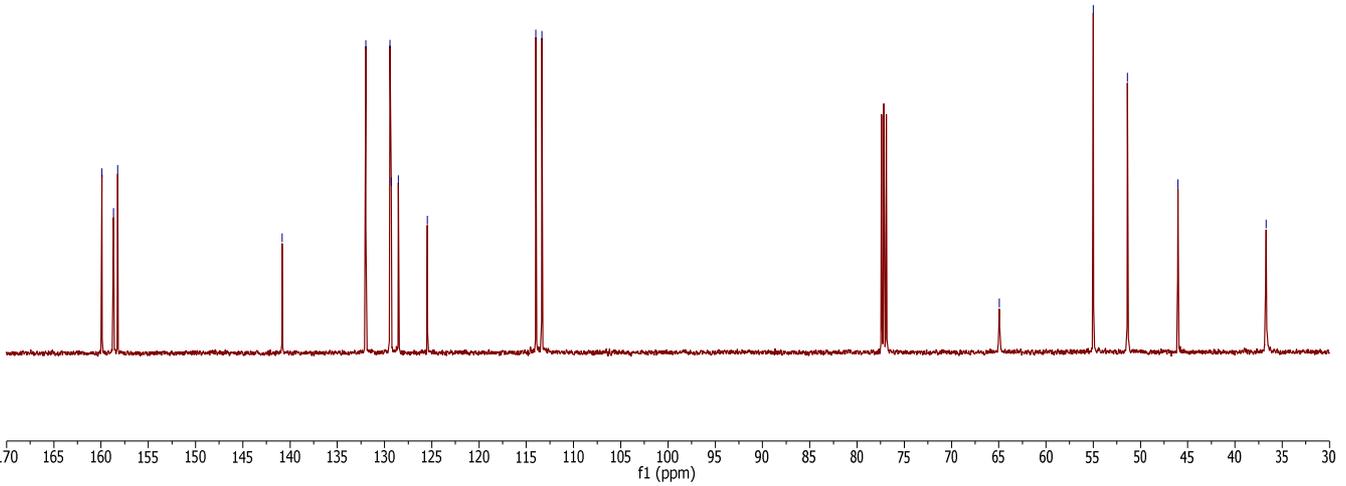
113.98
113.34

64.95

54.99
51.37

46.04

36.71



CDCl₃

158.70

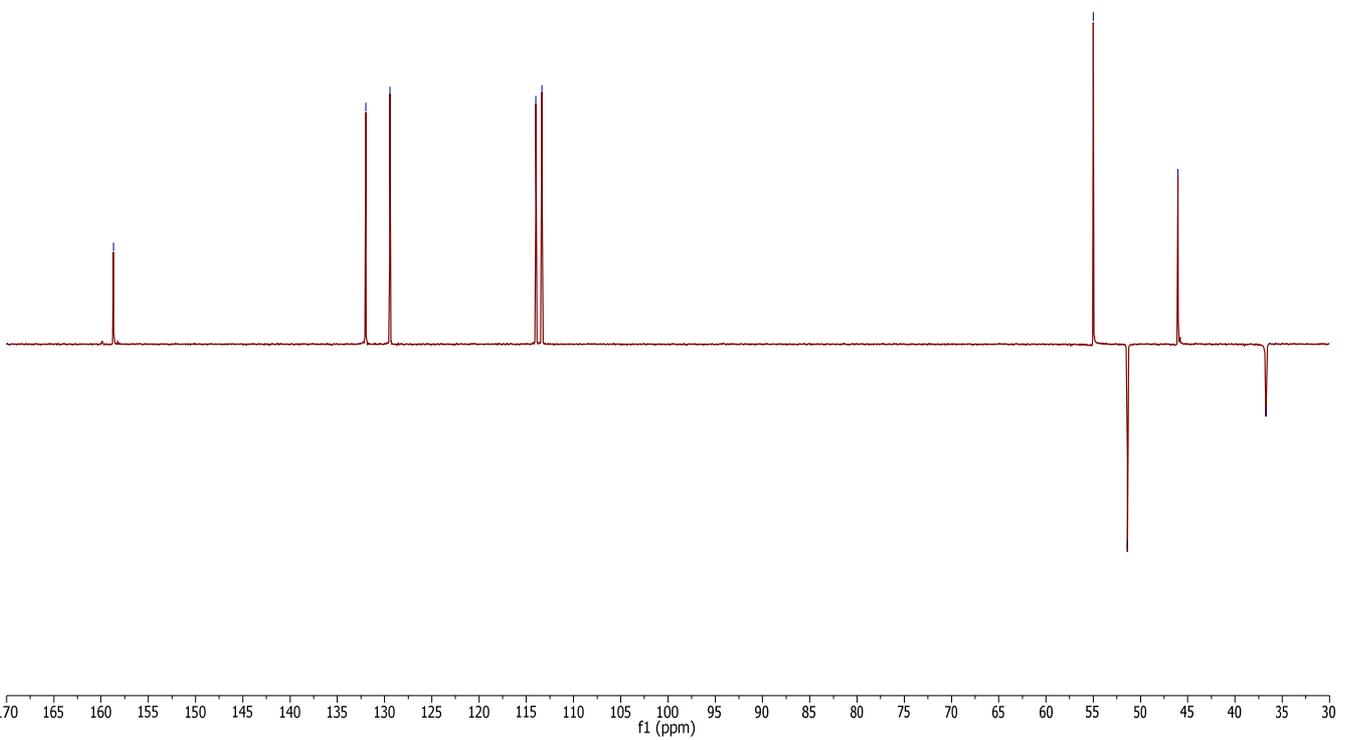
131.99
129.43

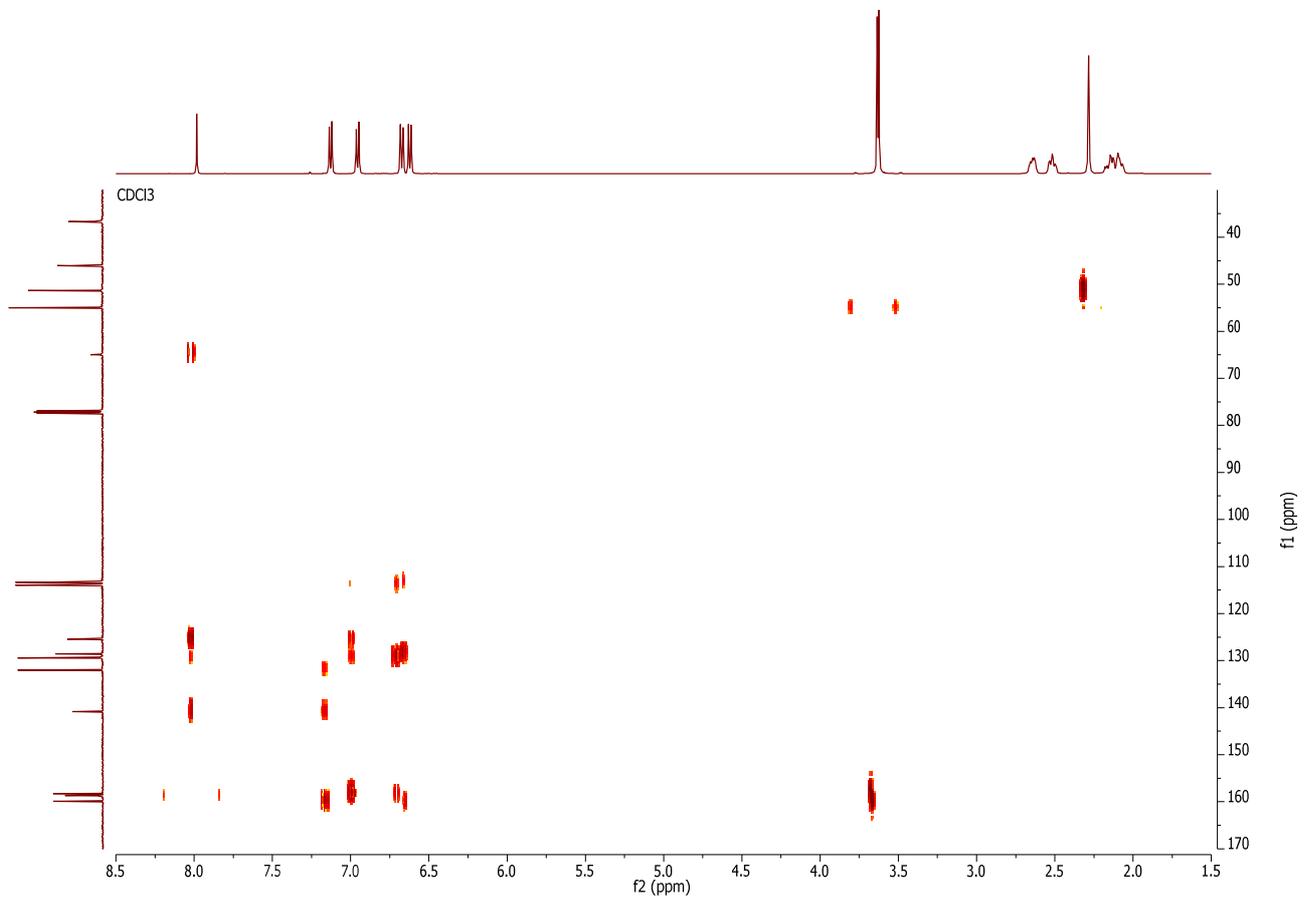
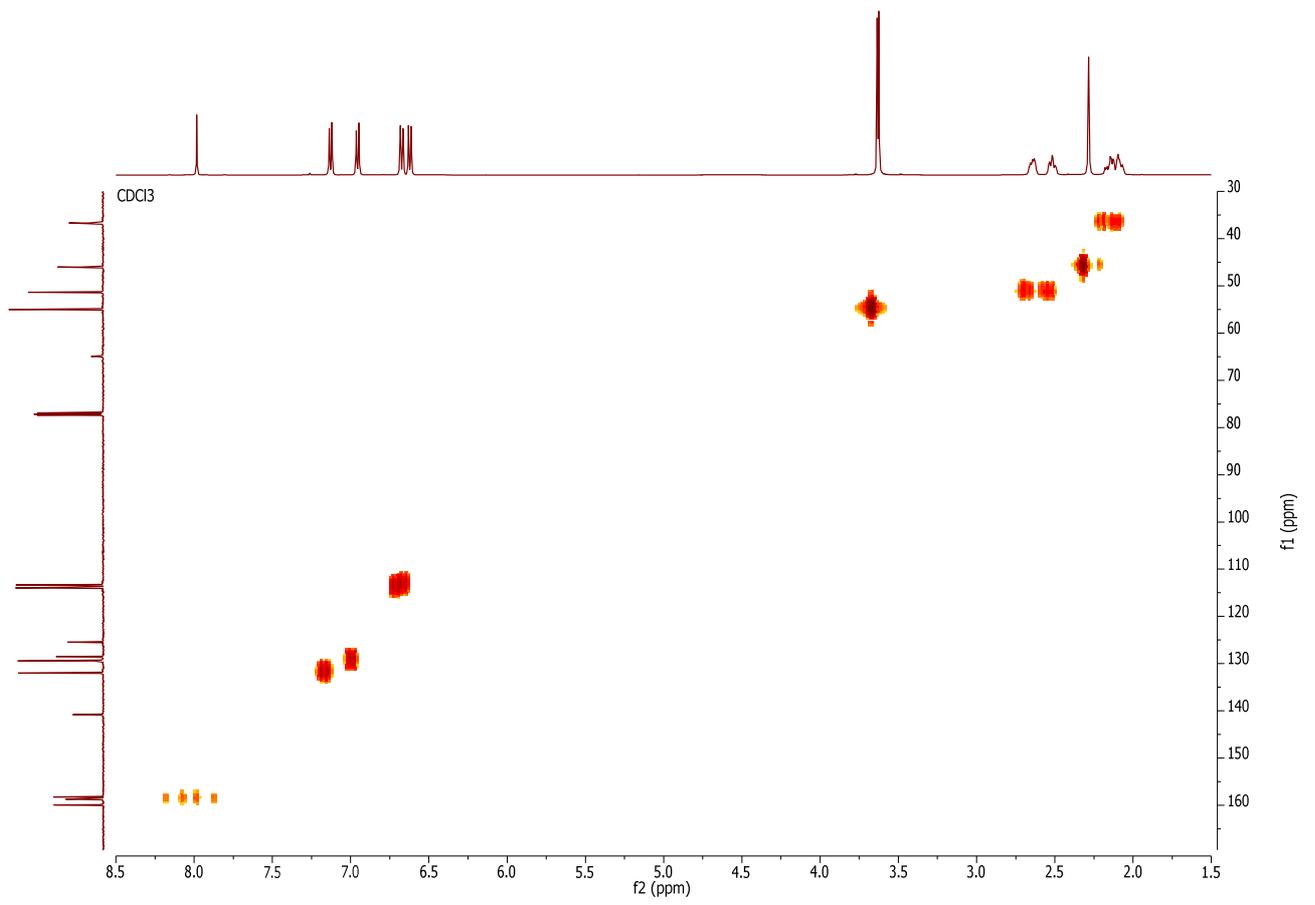
113.98
113.34

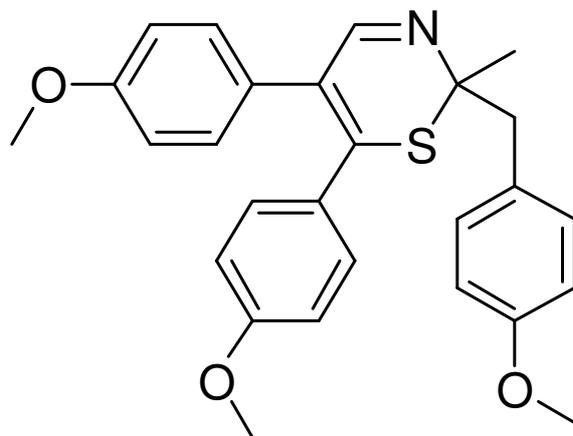
54.99
51.37

46.04

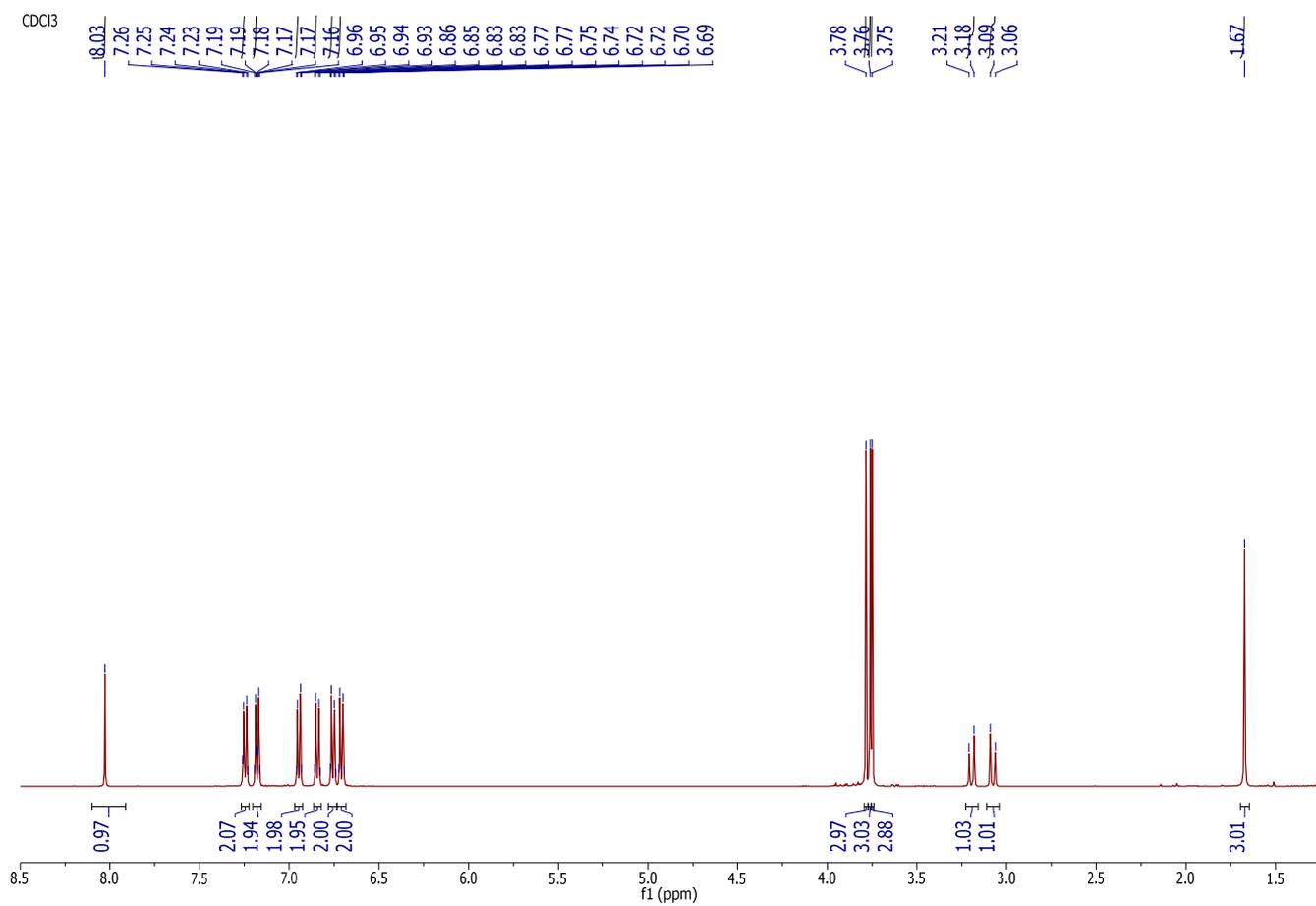
36.72

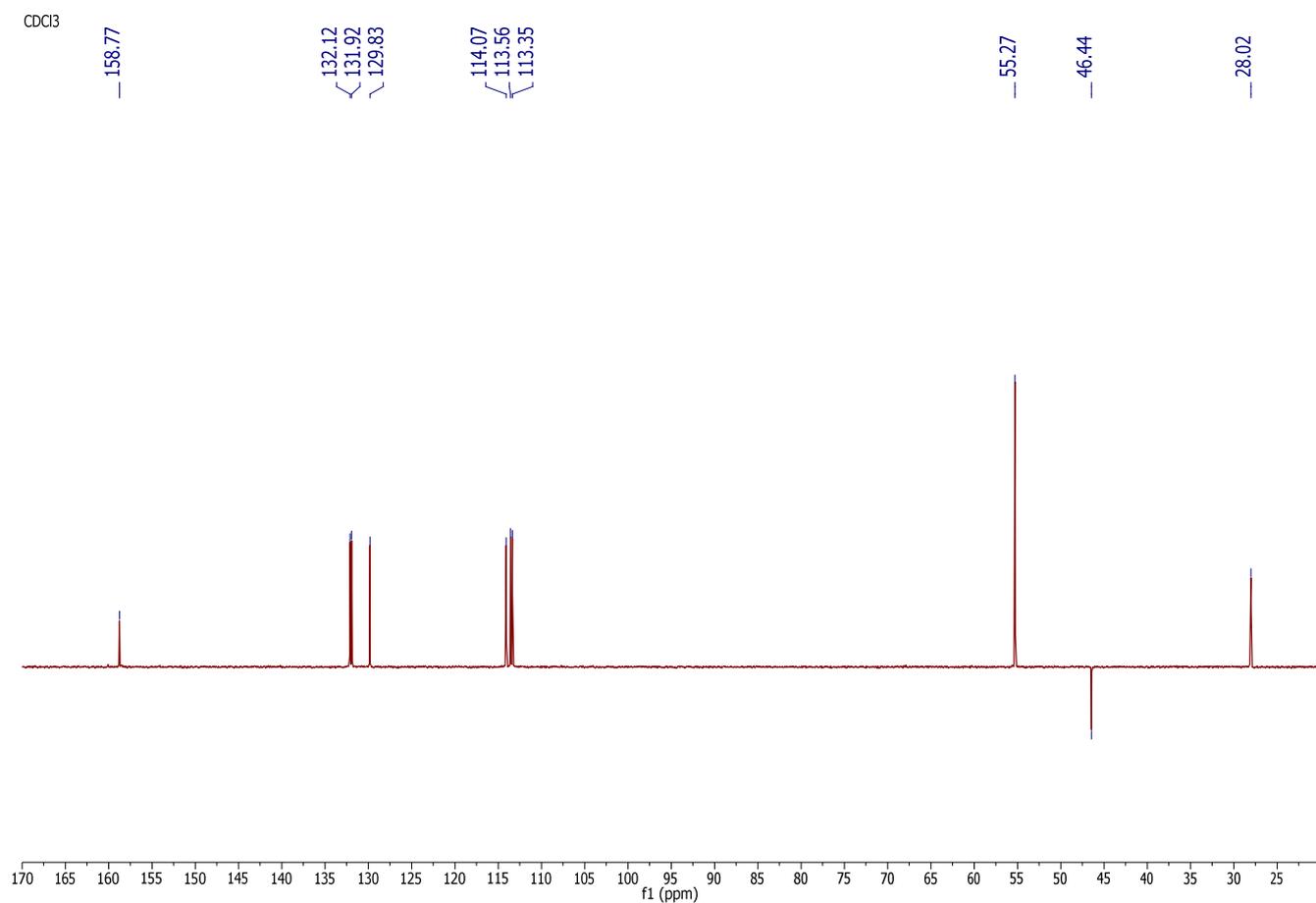
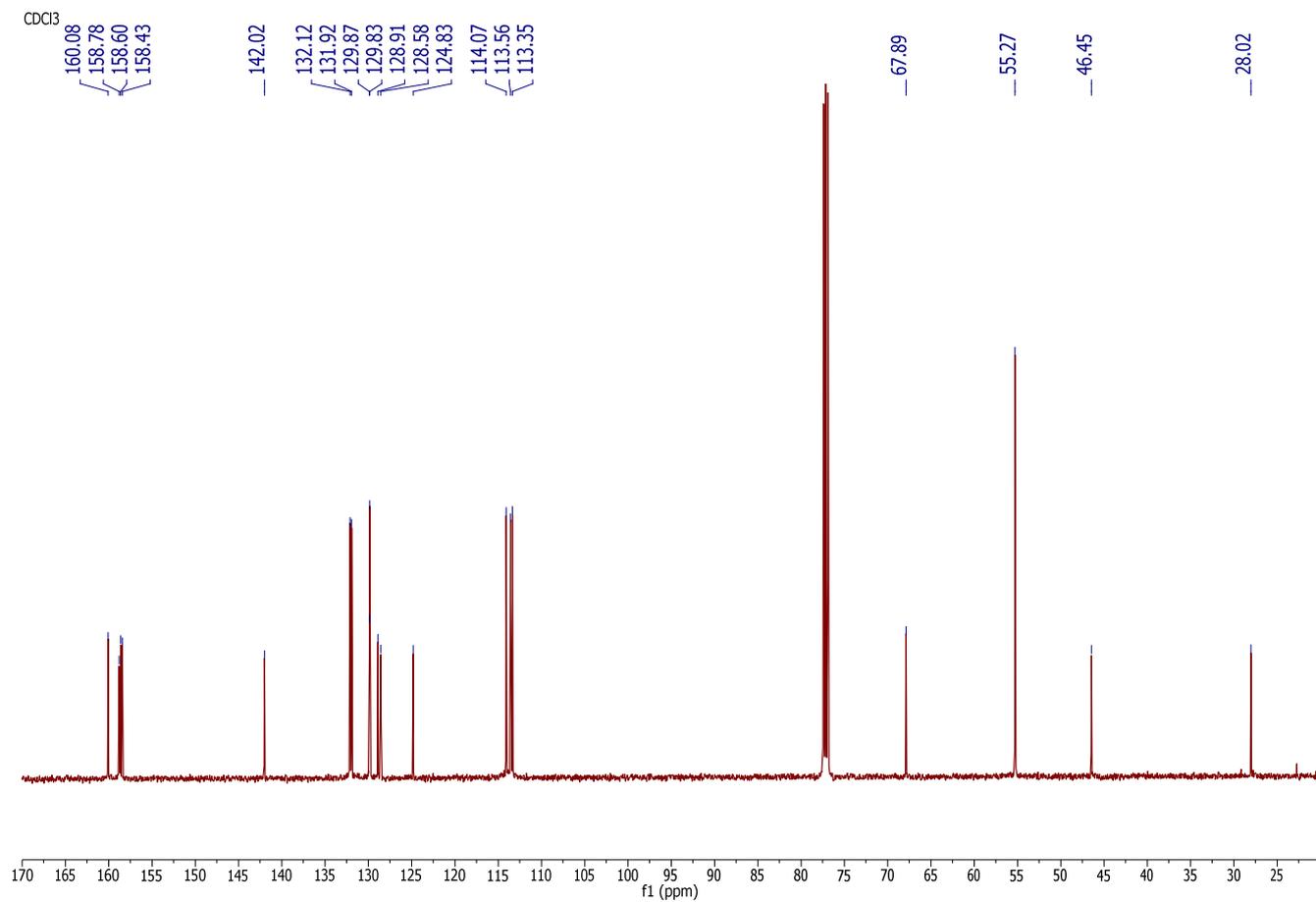


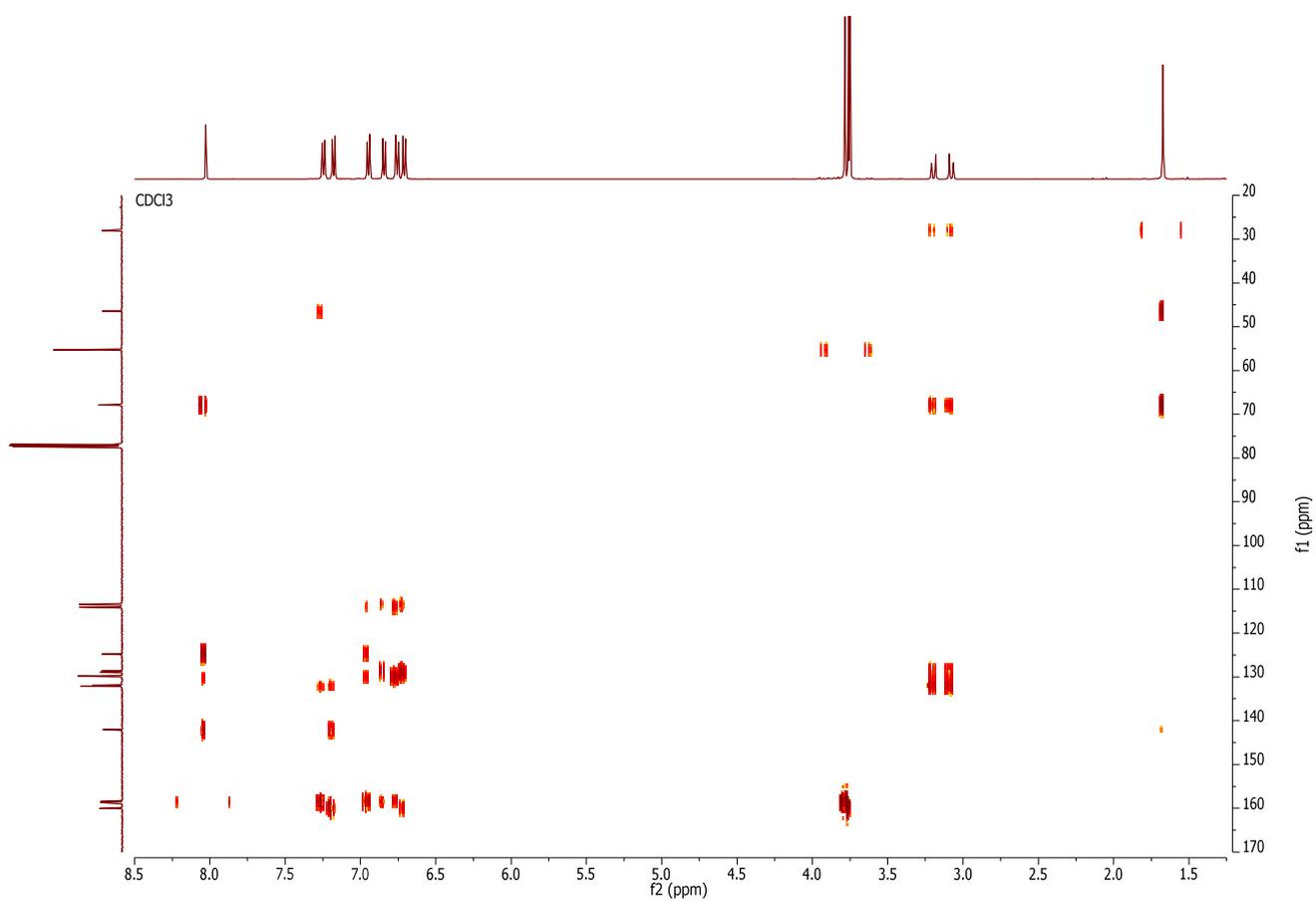
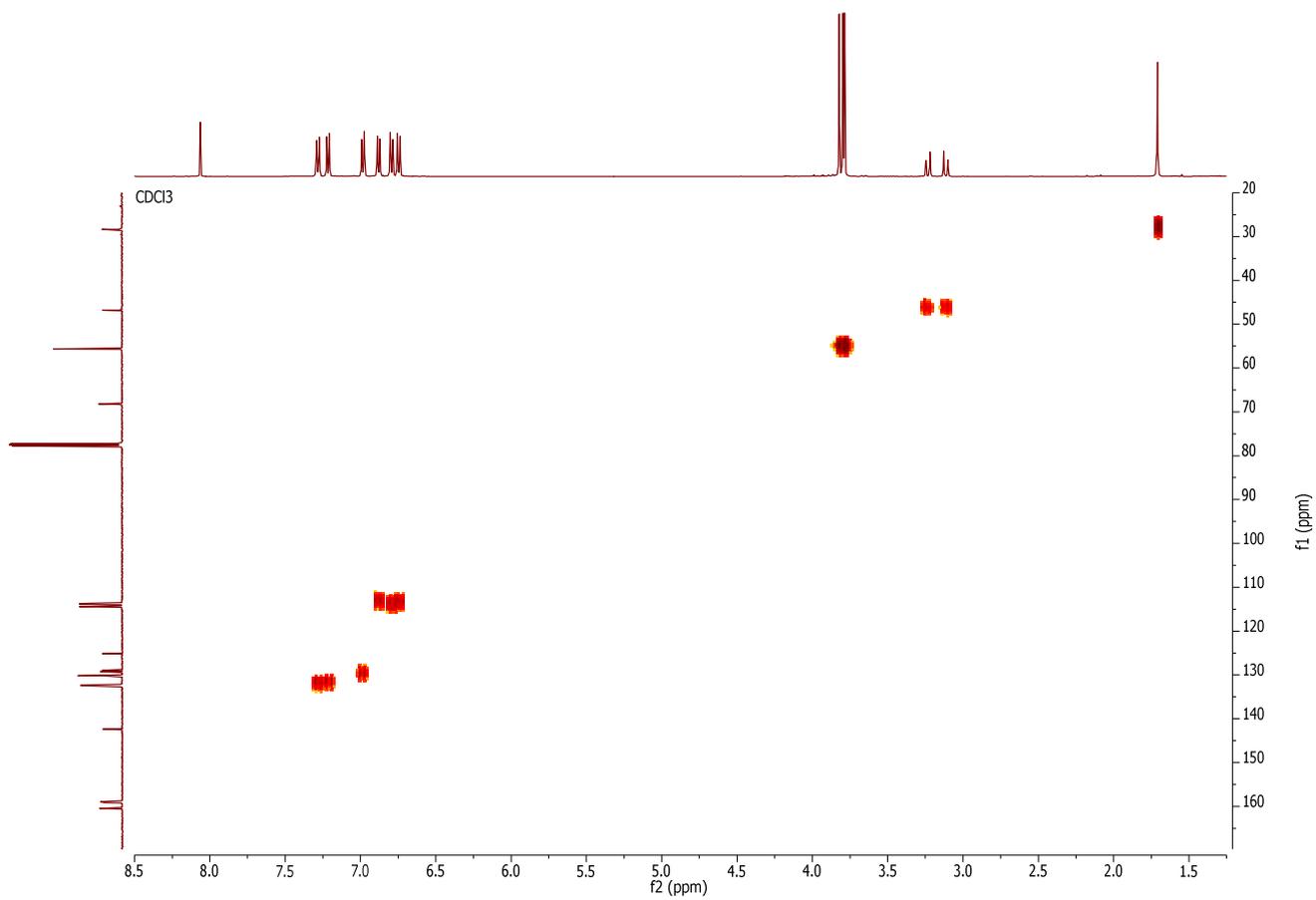


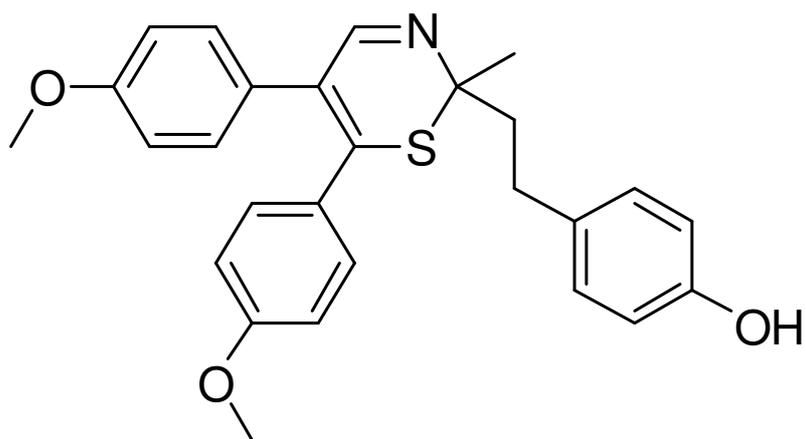


21

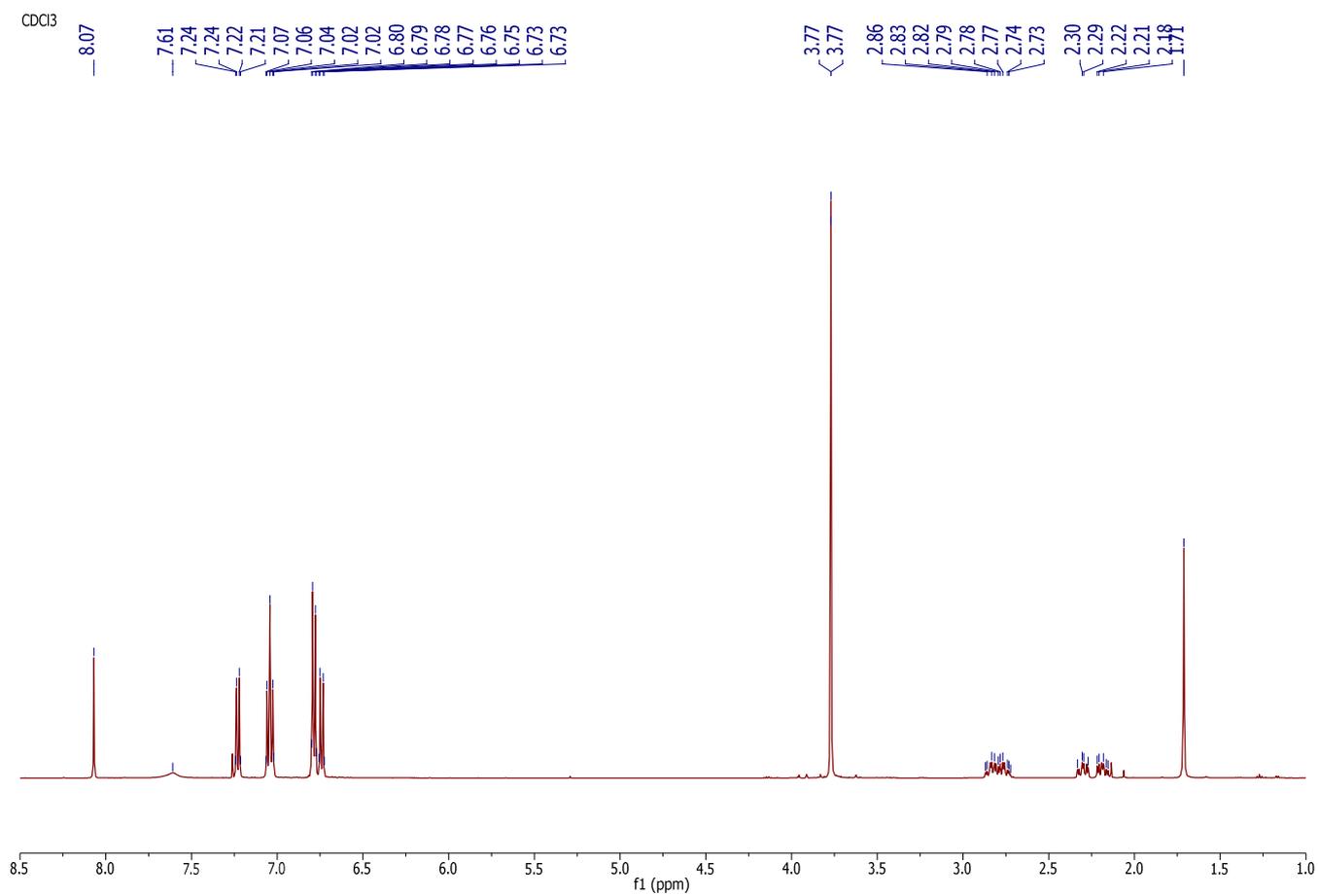








2m



CDCl₃

160.30
159.26
158.56
154.74

143.20

133.31
132.12
129.85
129.56
128.82

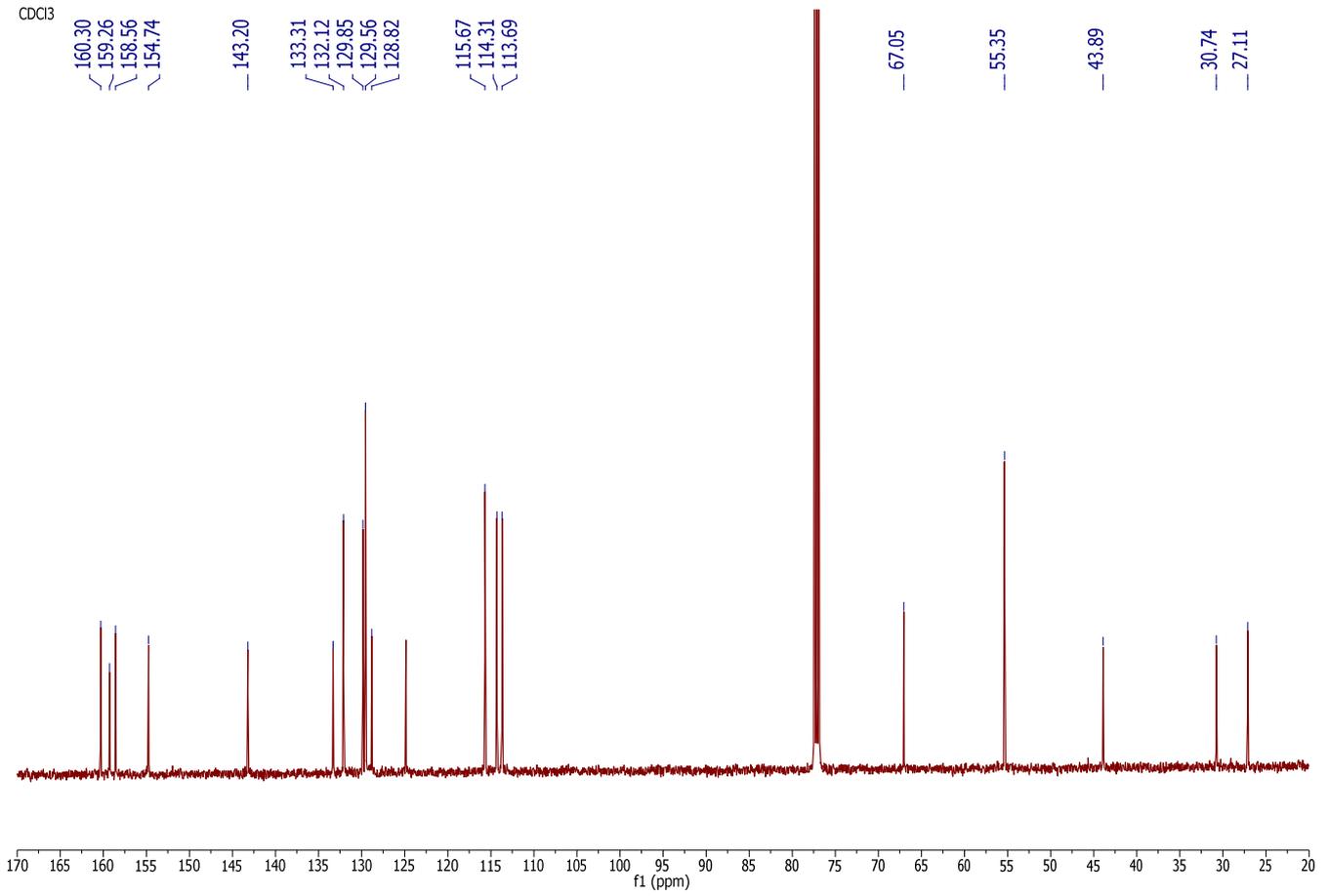
115.67
114.31
113.69

67.05

55.35

43.89

30.74
27.11



CDCl₃

160.62
159.59
158.88
155.07

143.53

133.63
132.44
130.17
129.89
129.15
125.19

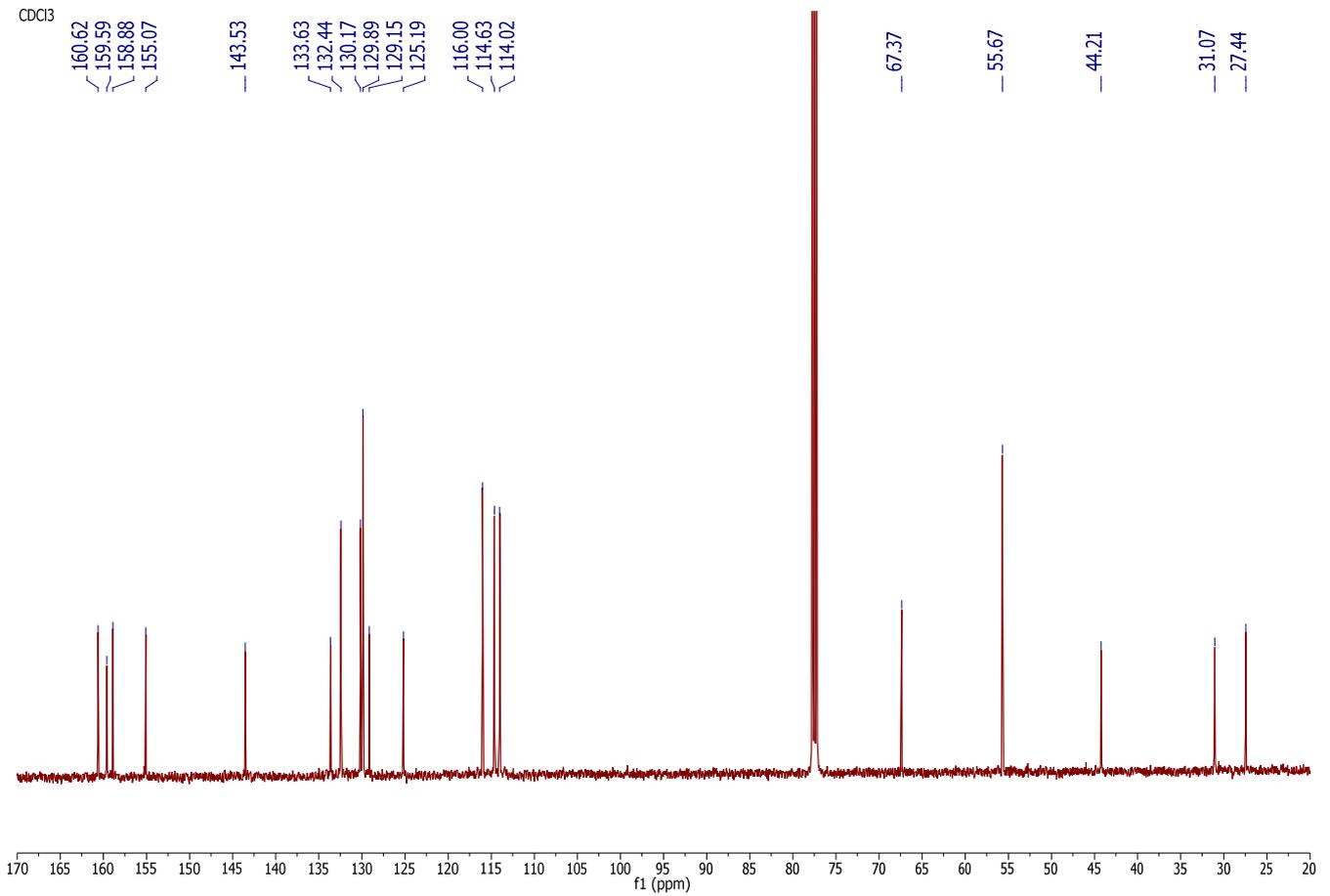
116.00
114.63
114.02

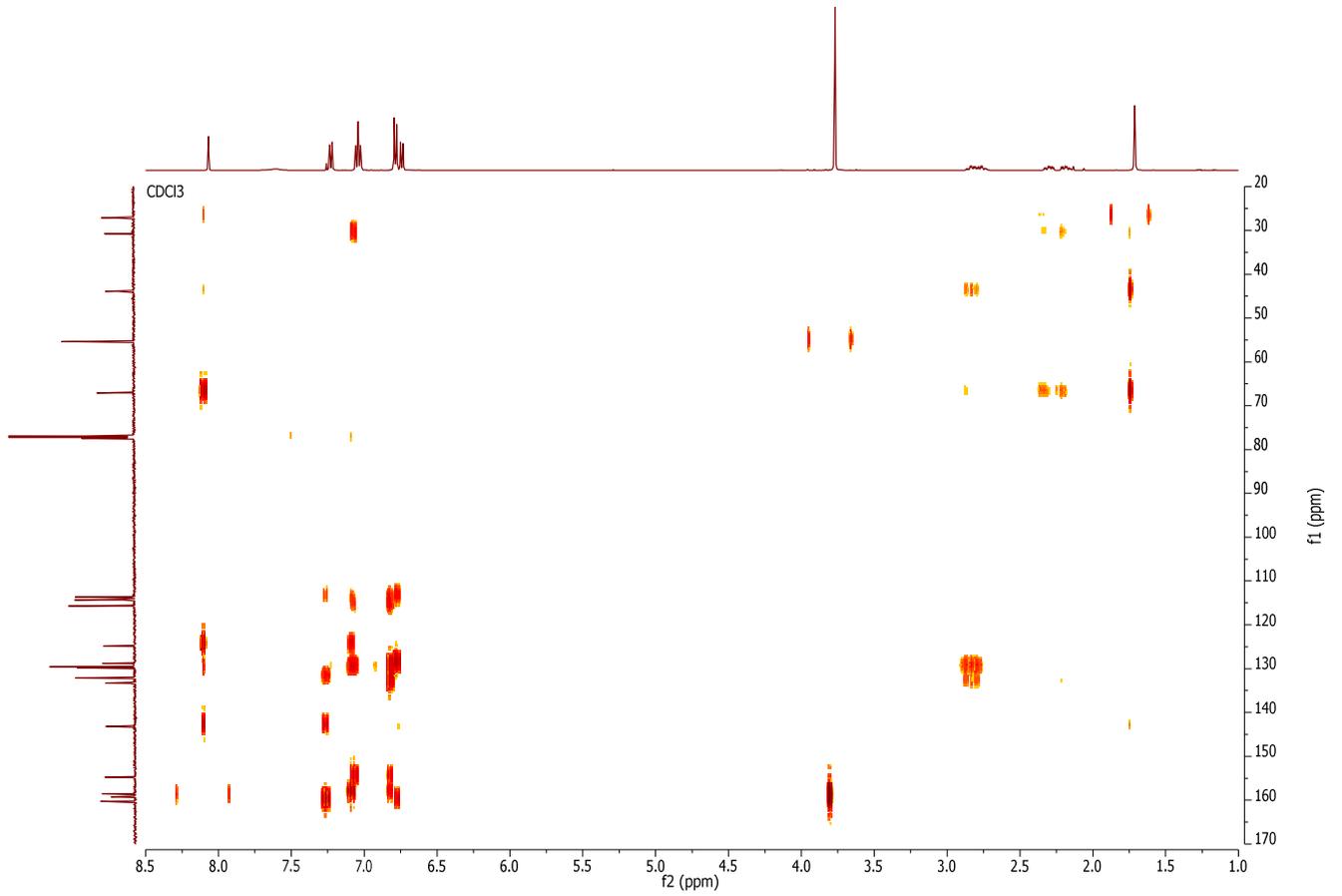
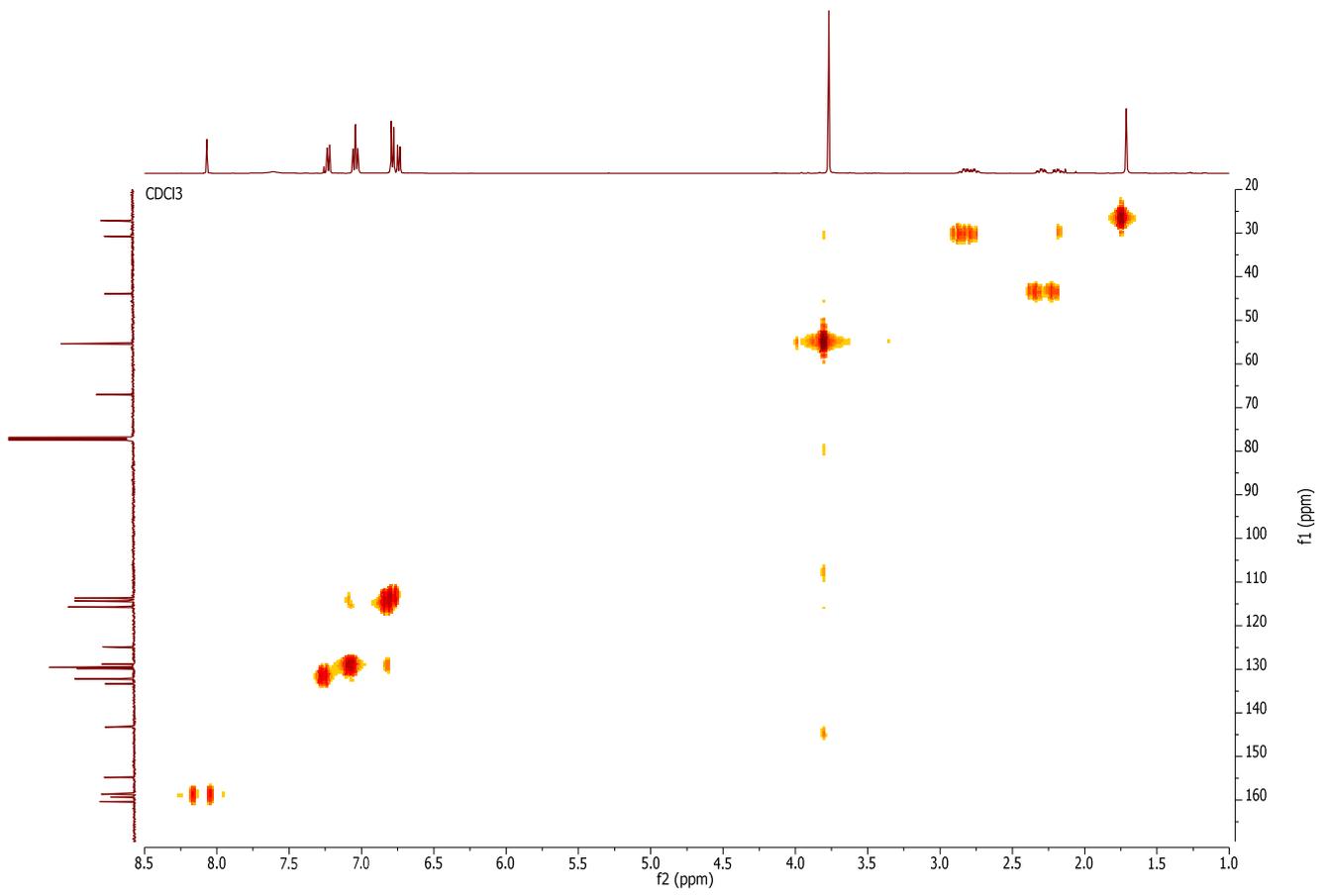
67.37

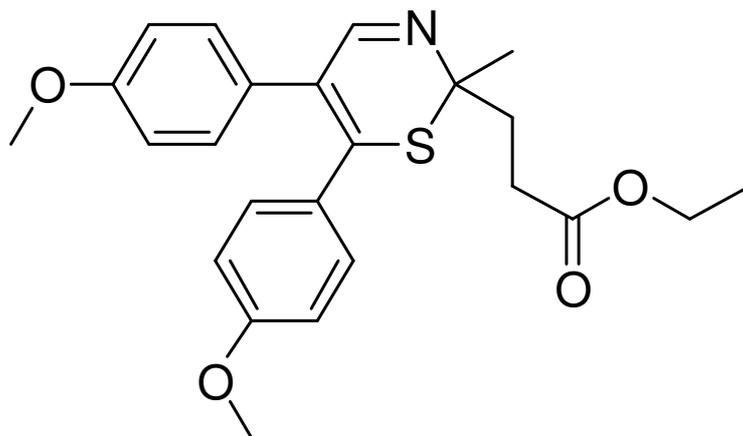
55.67

44.21

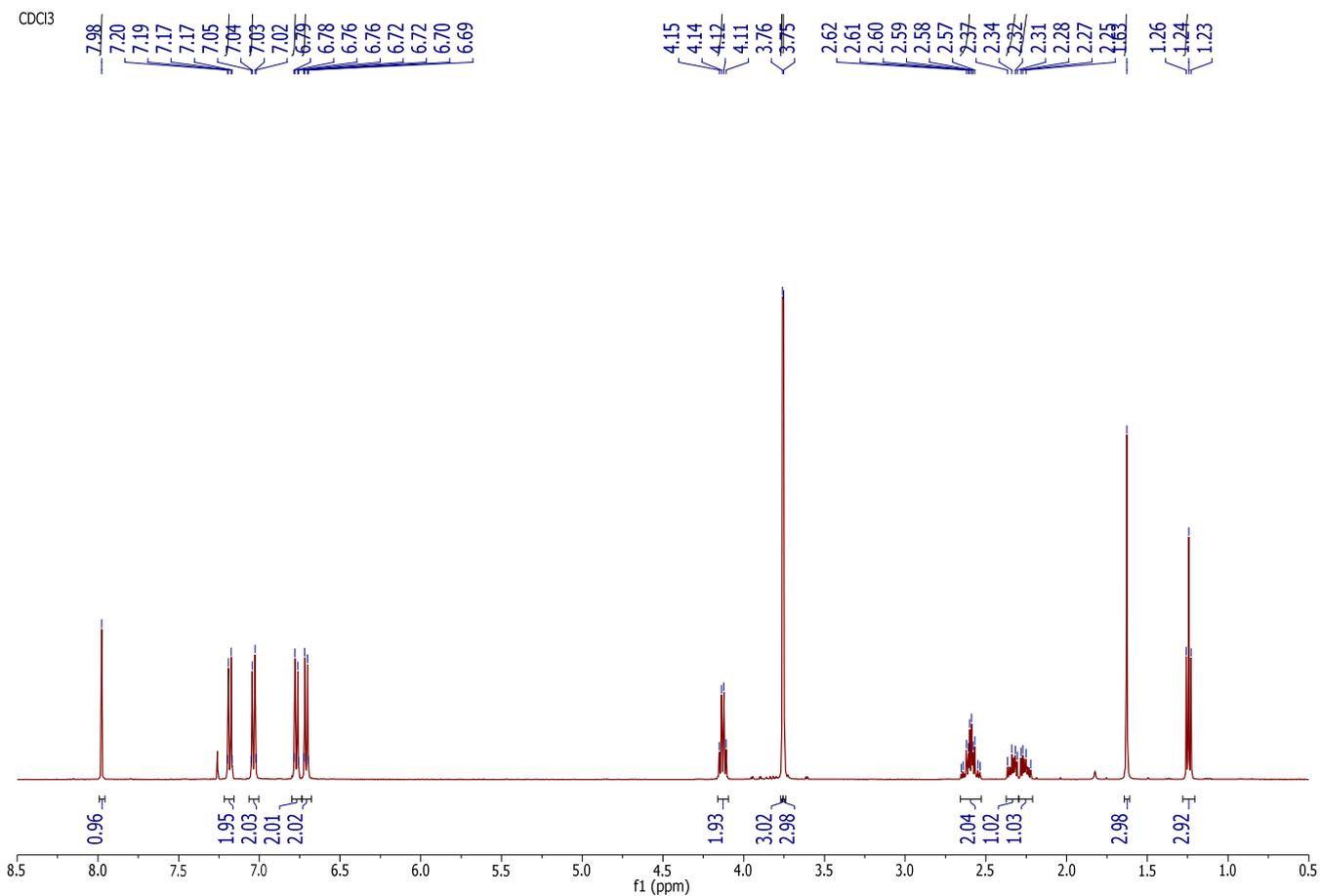
31.07
27.44

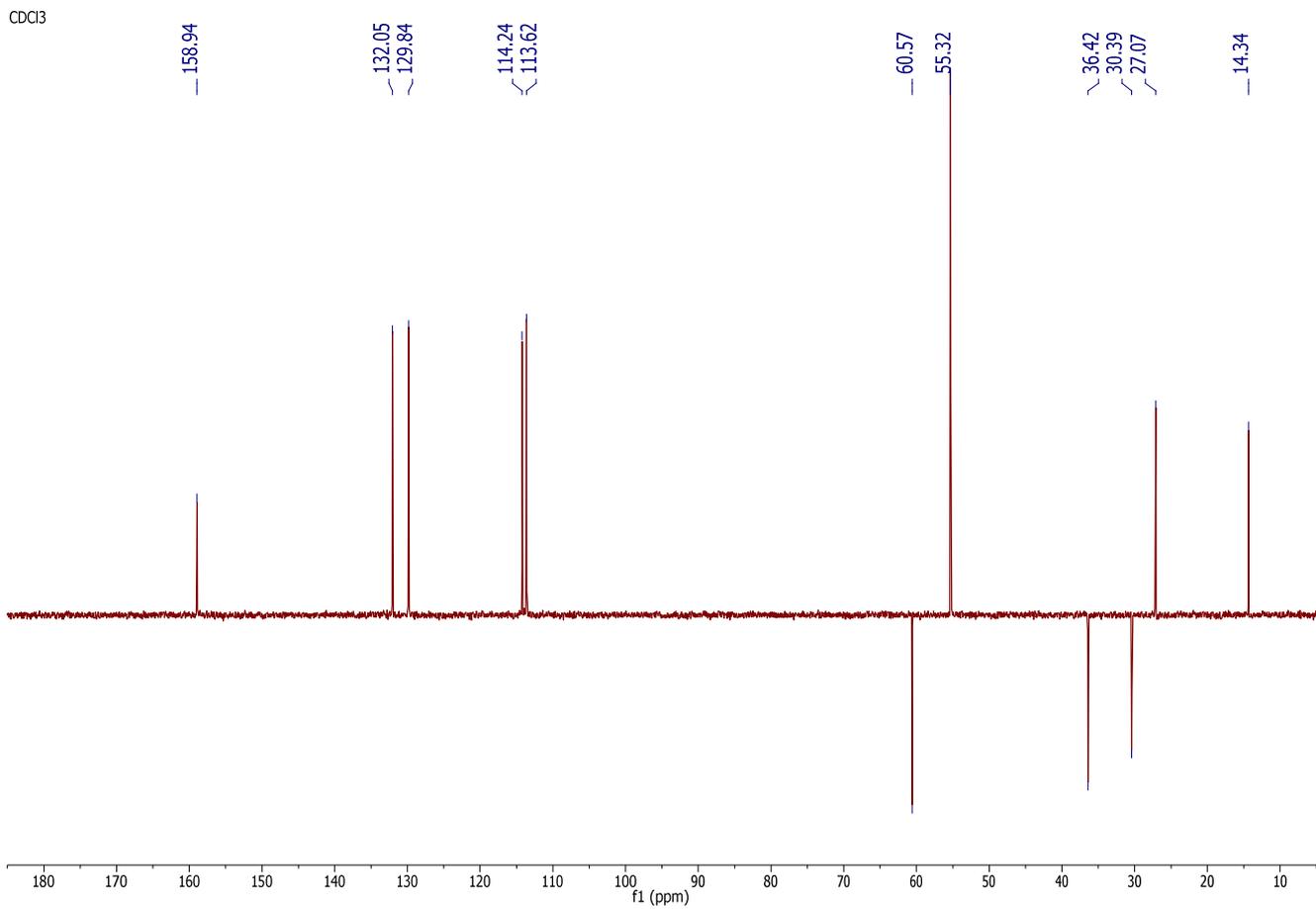
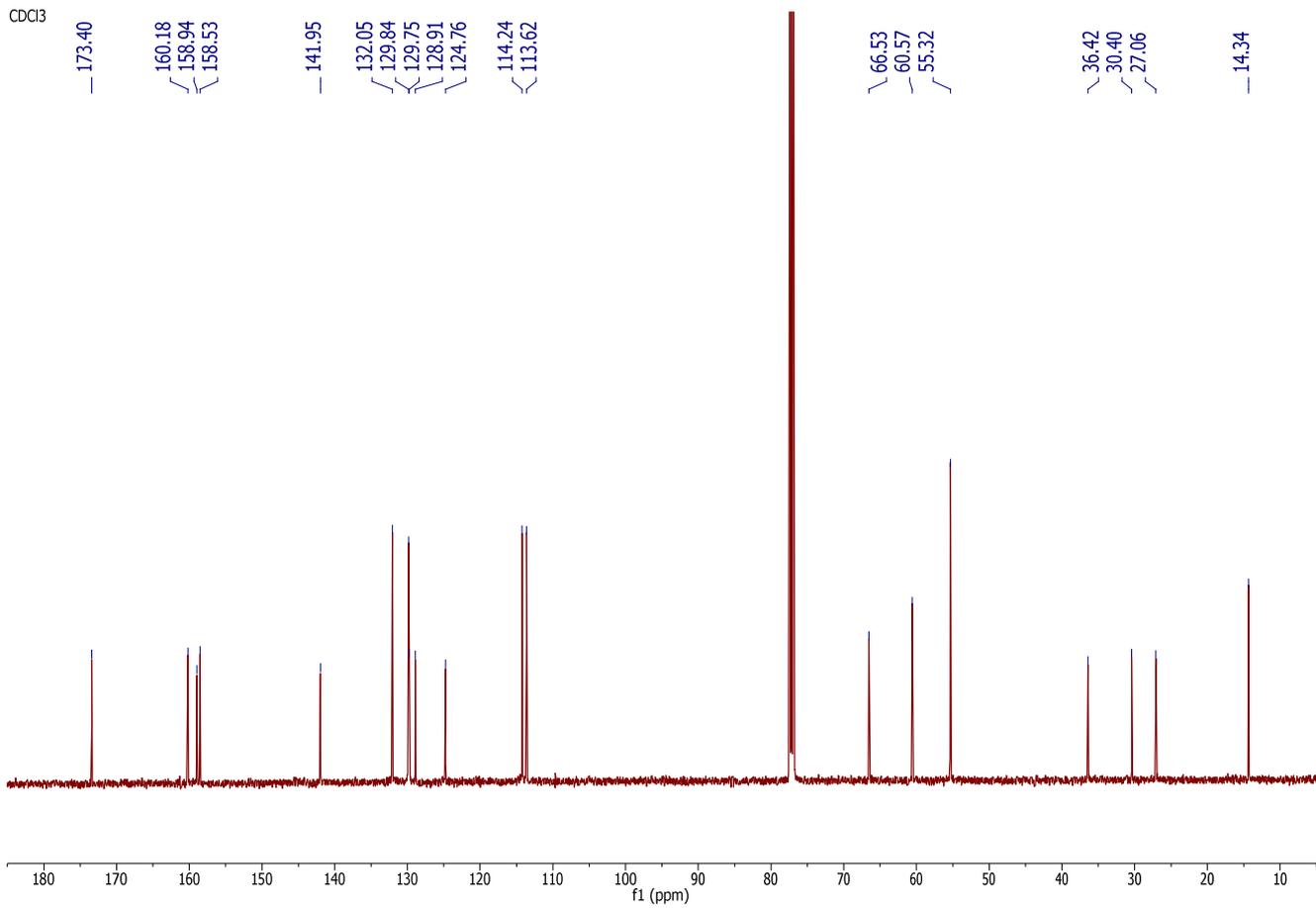


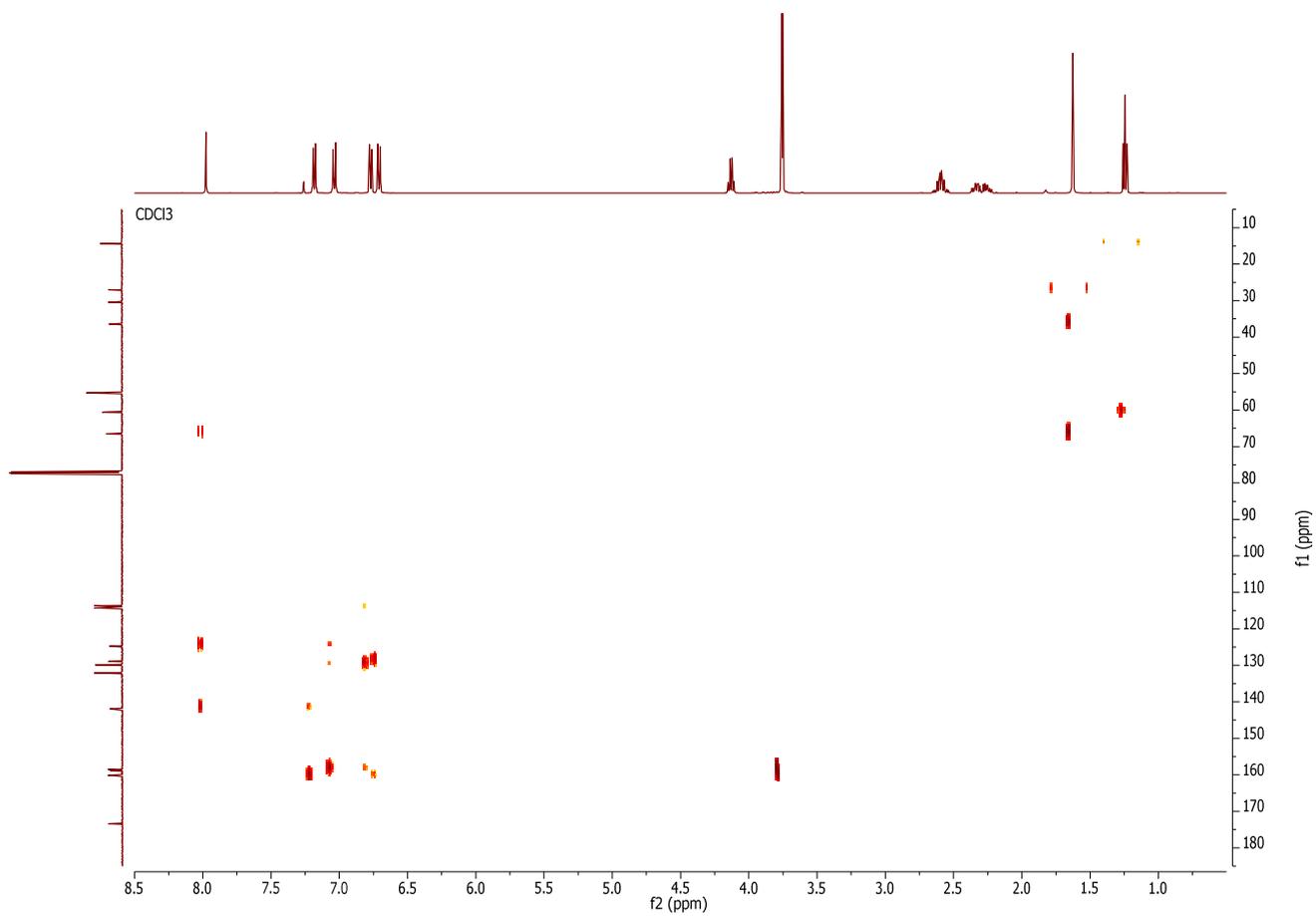
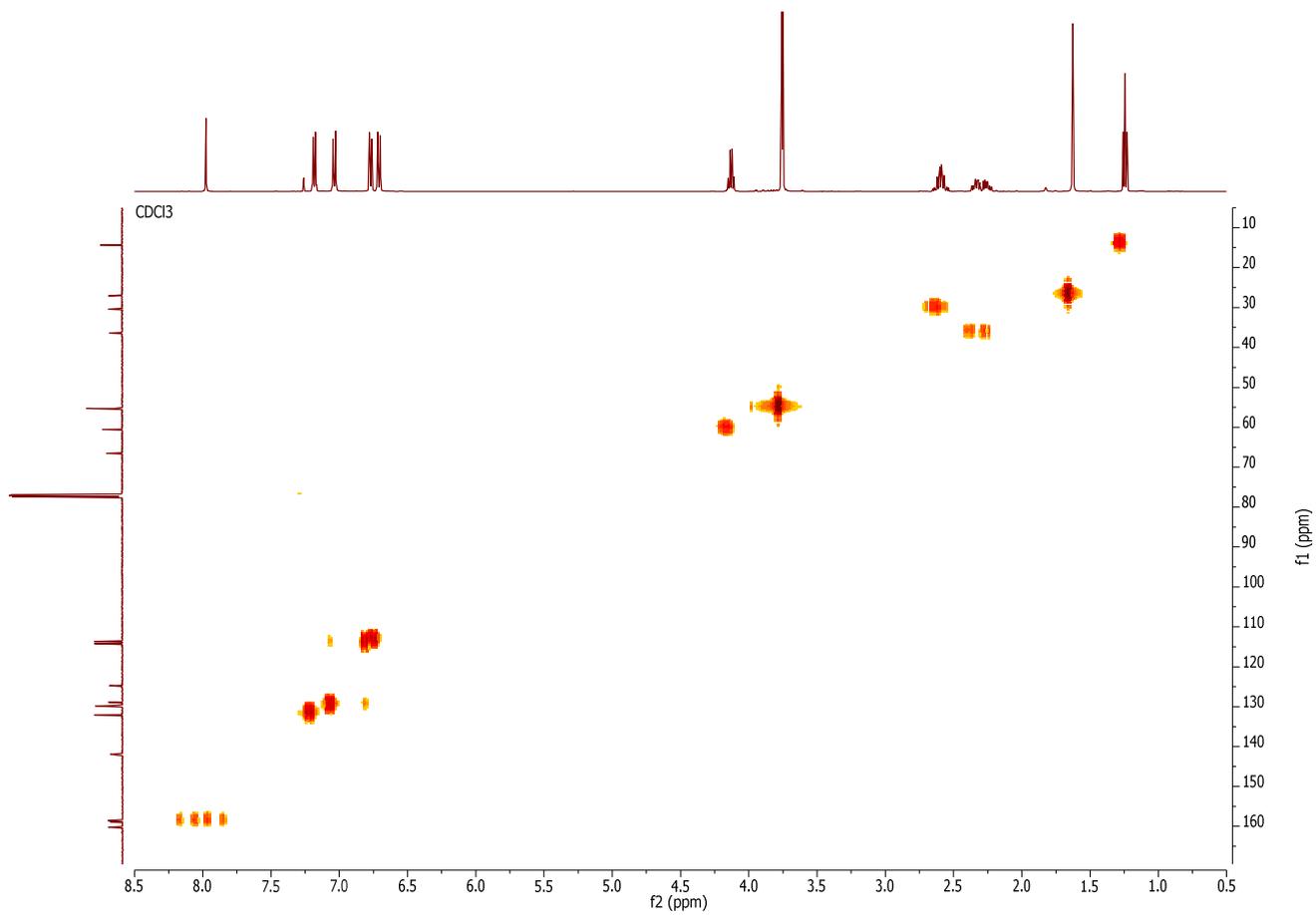


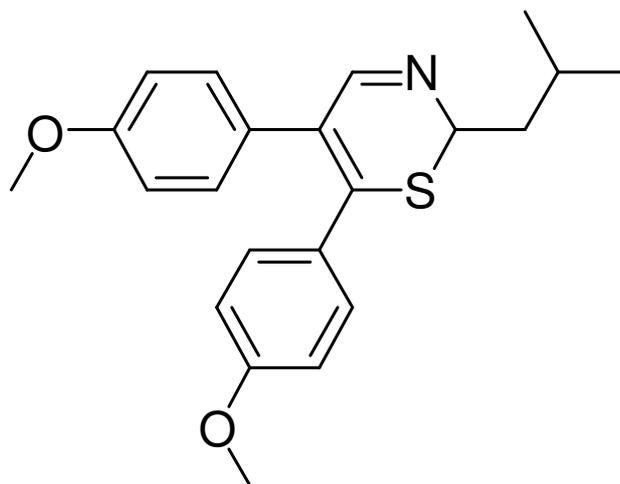


2n

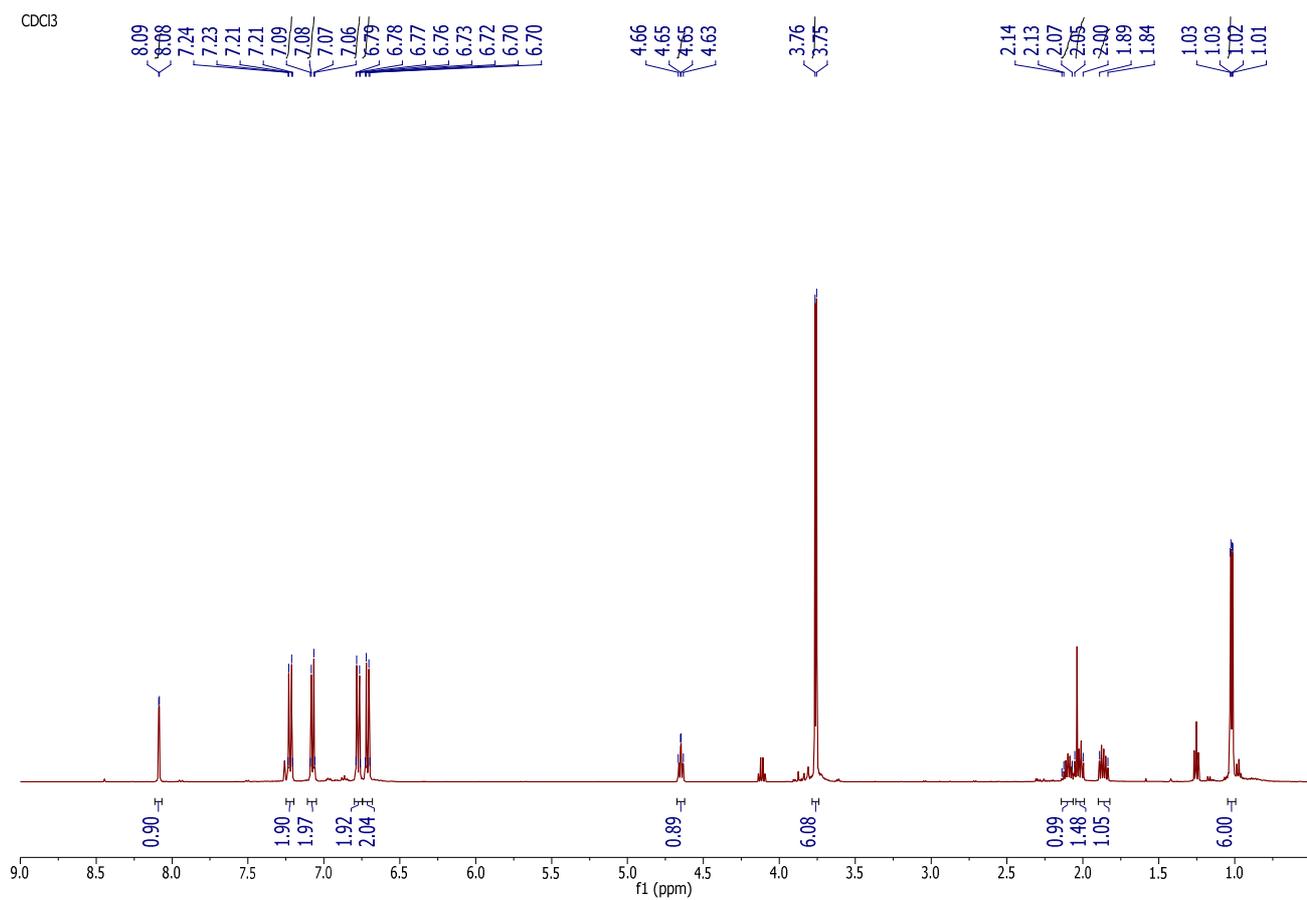


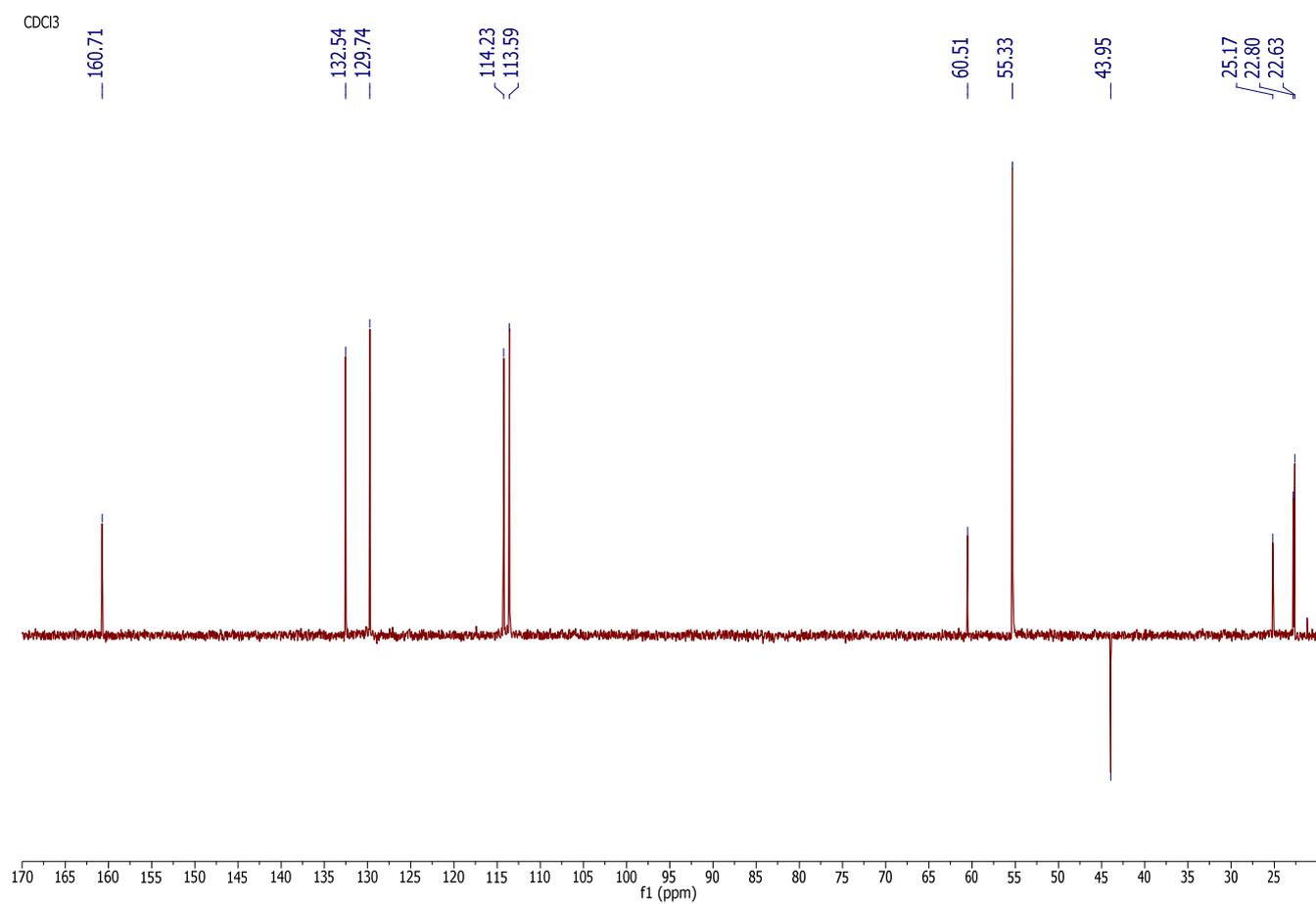
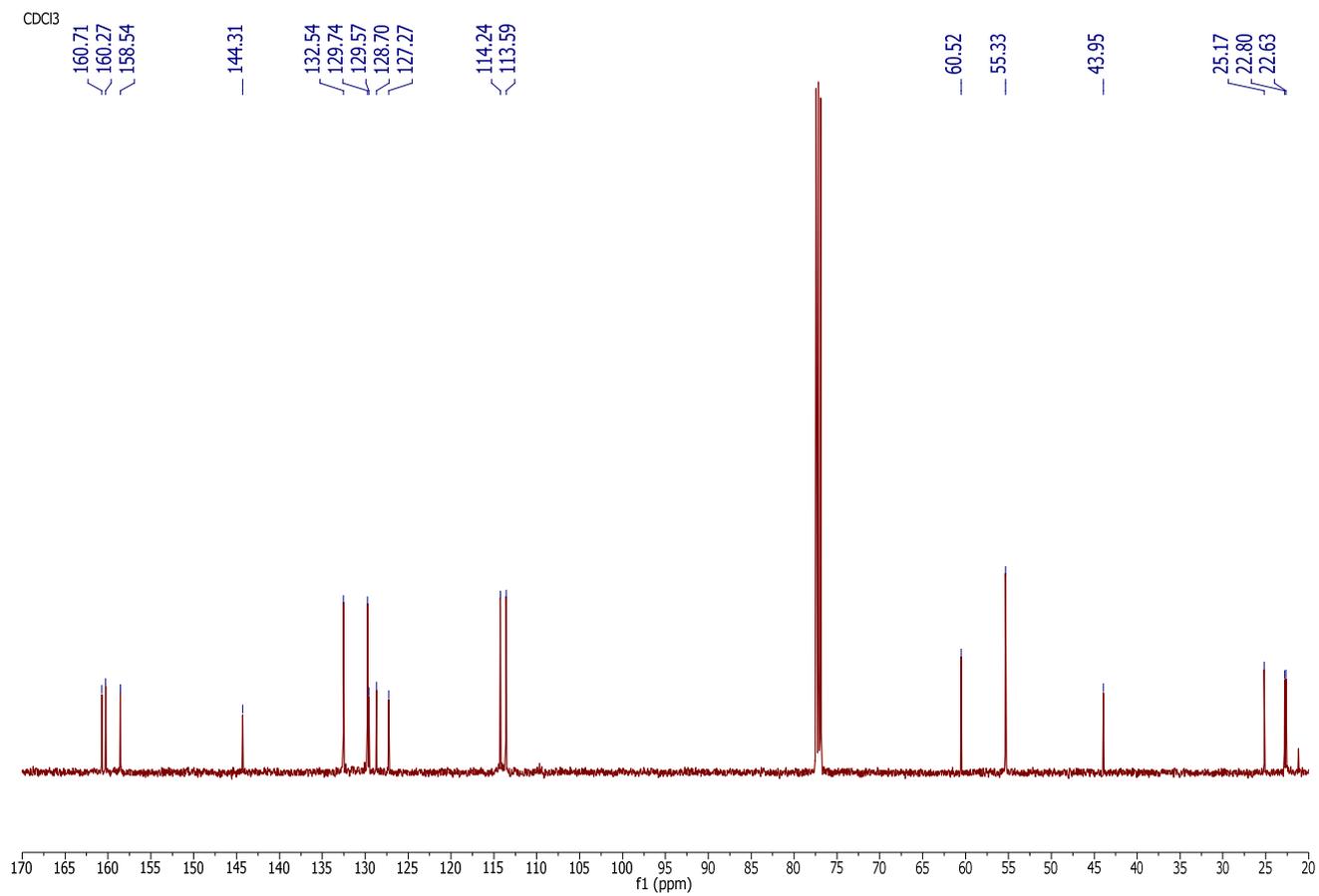


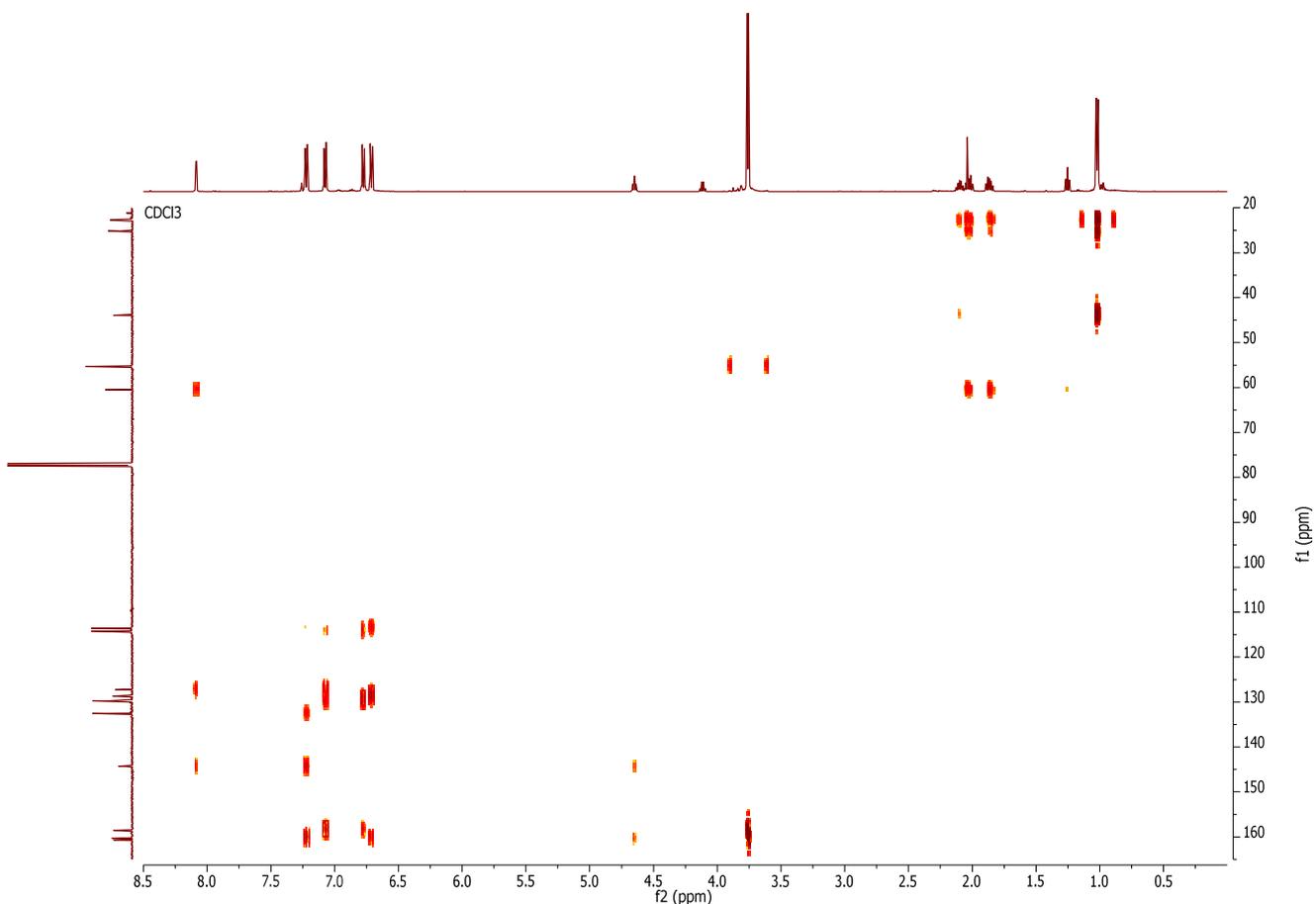
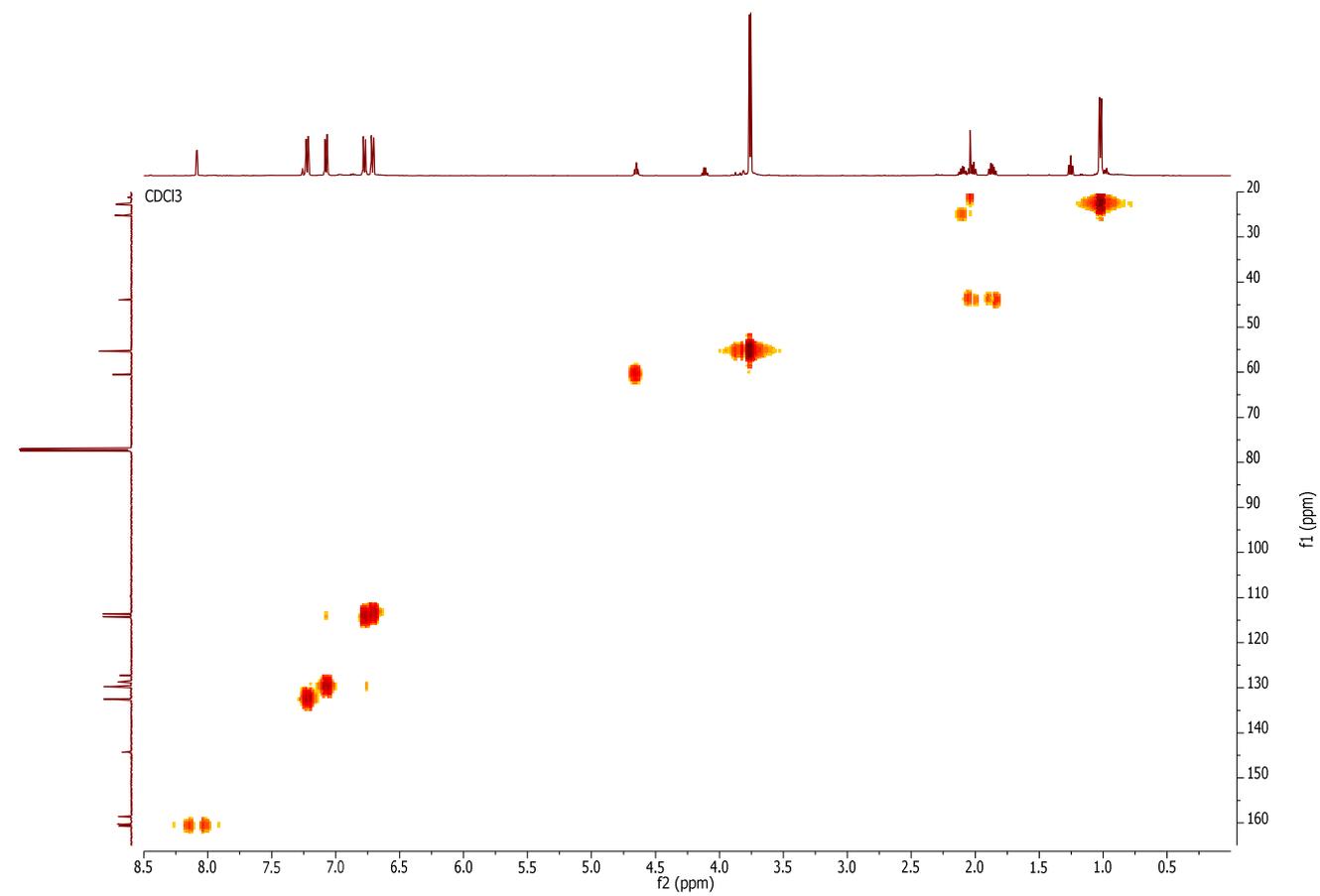


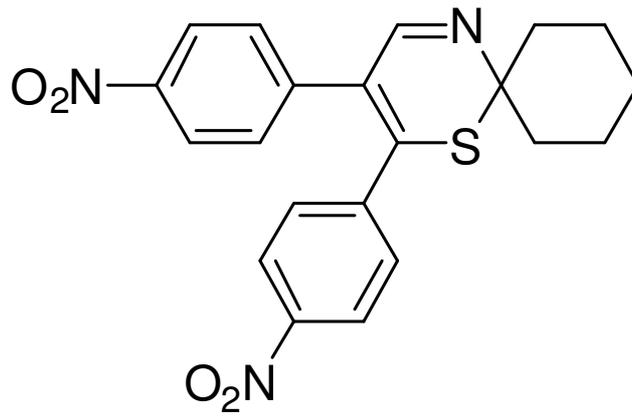


2o



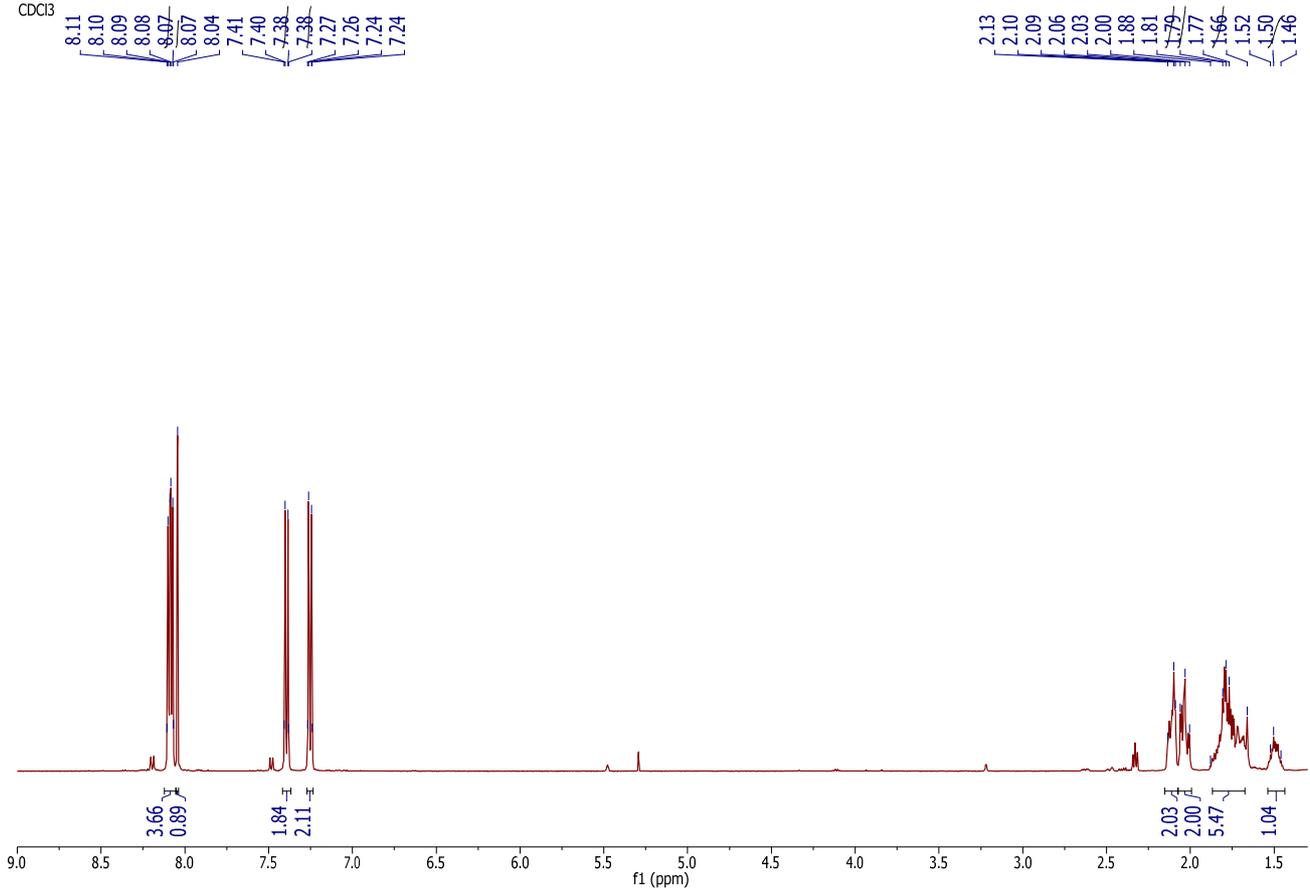




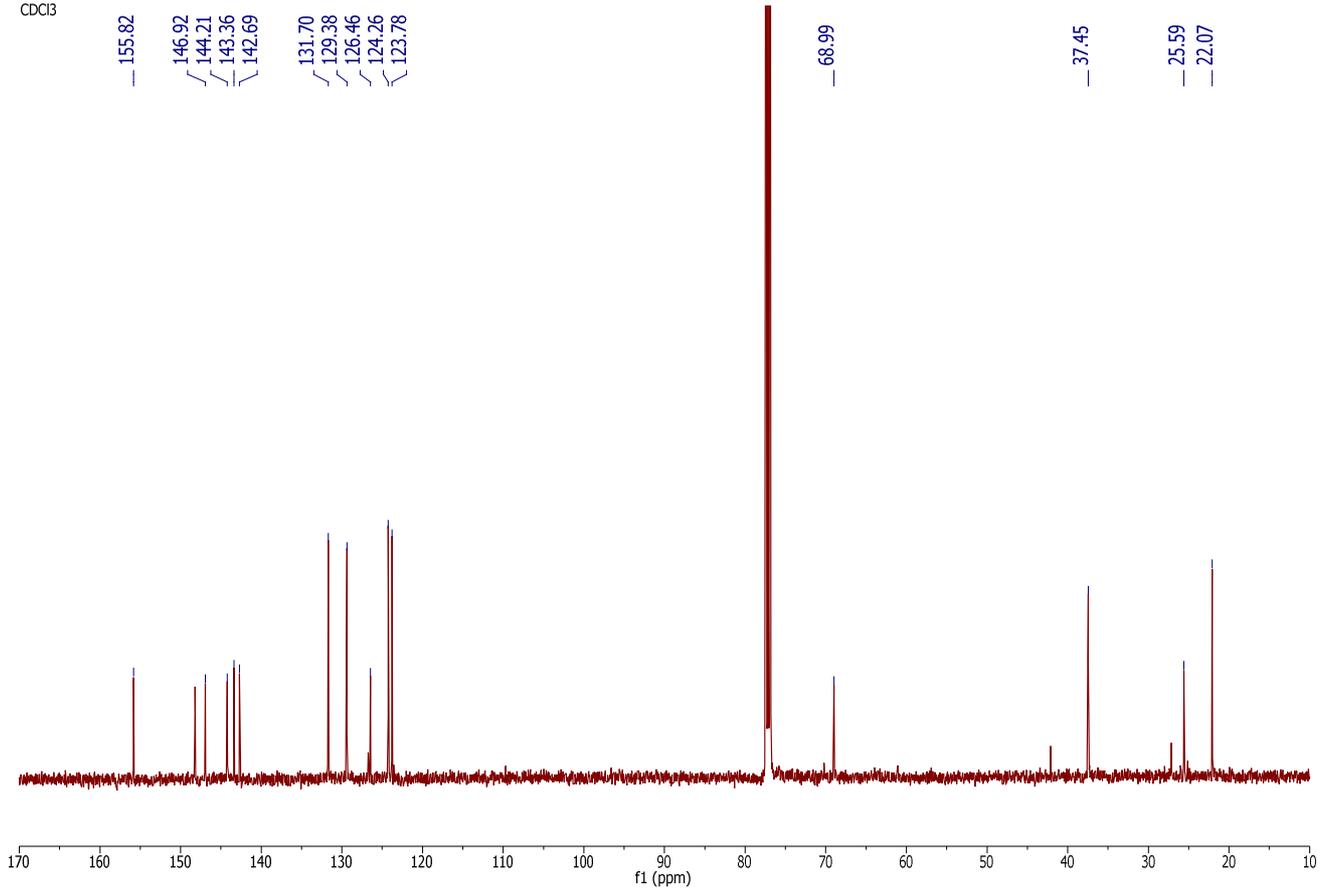


2p

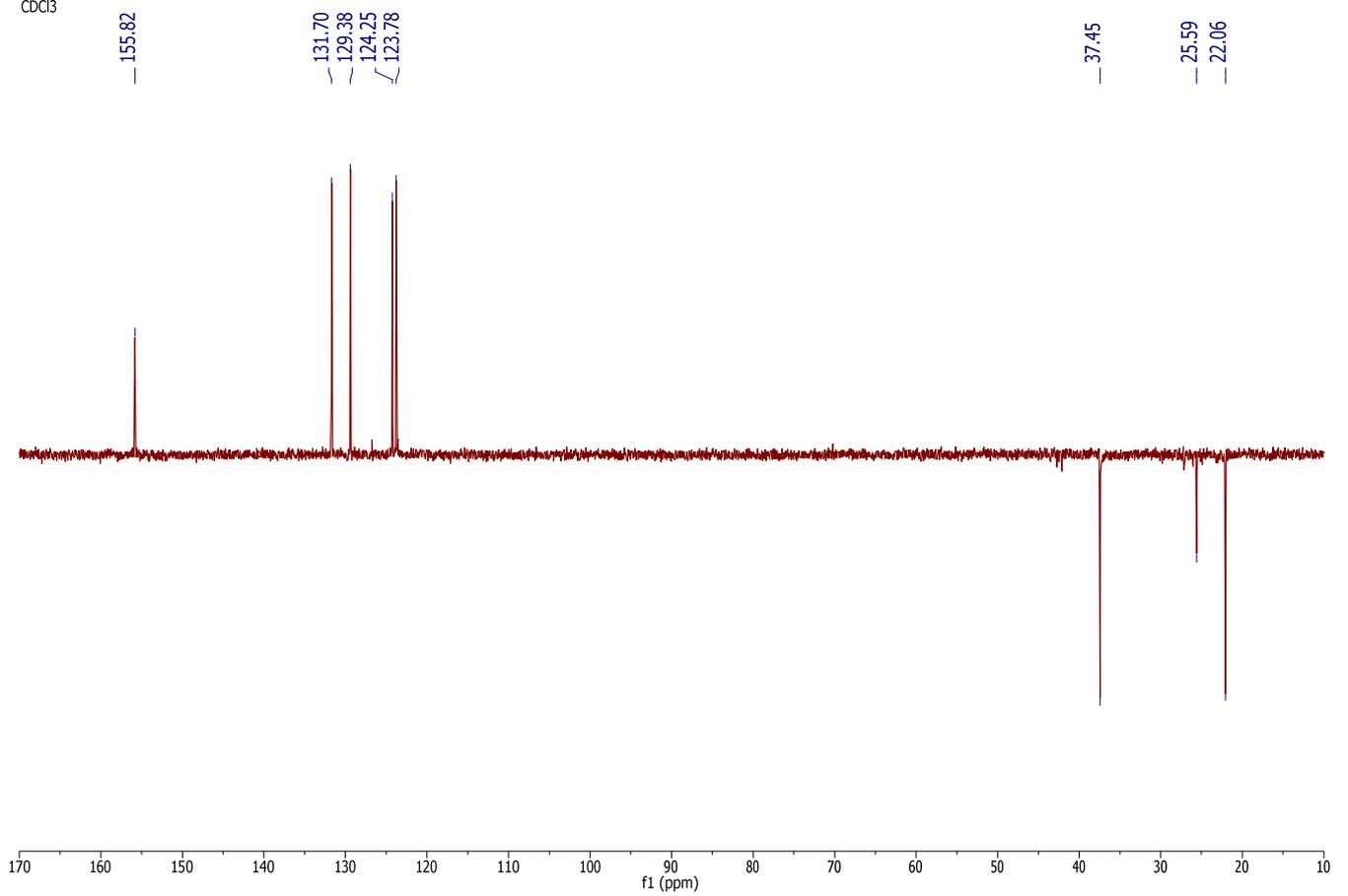
CDCl₃

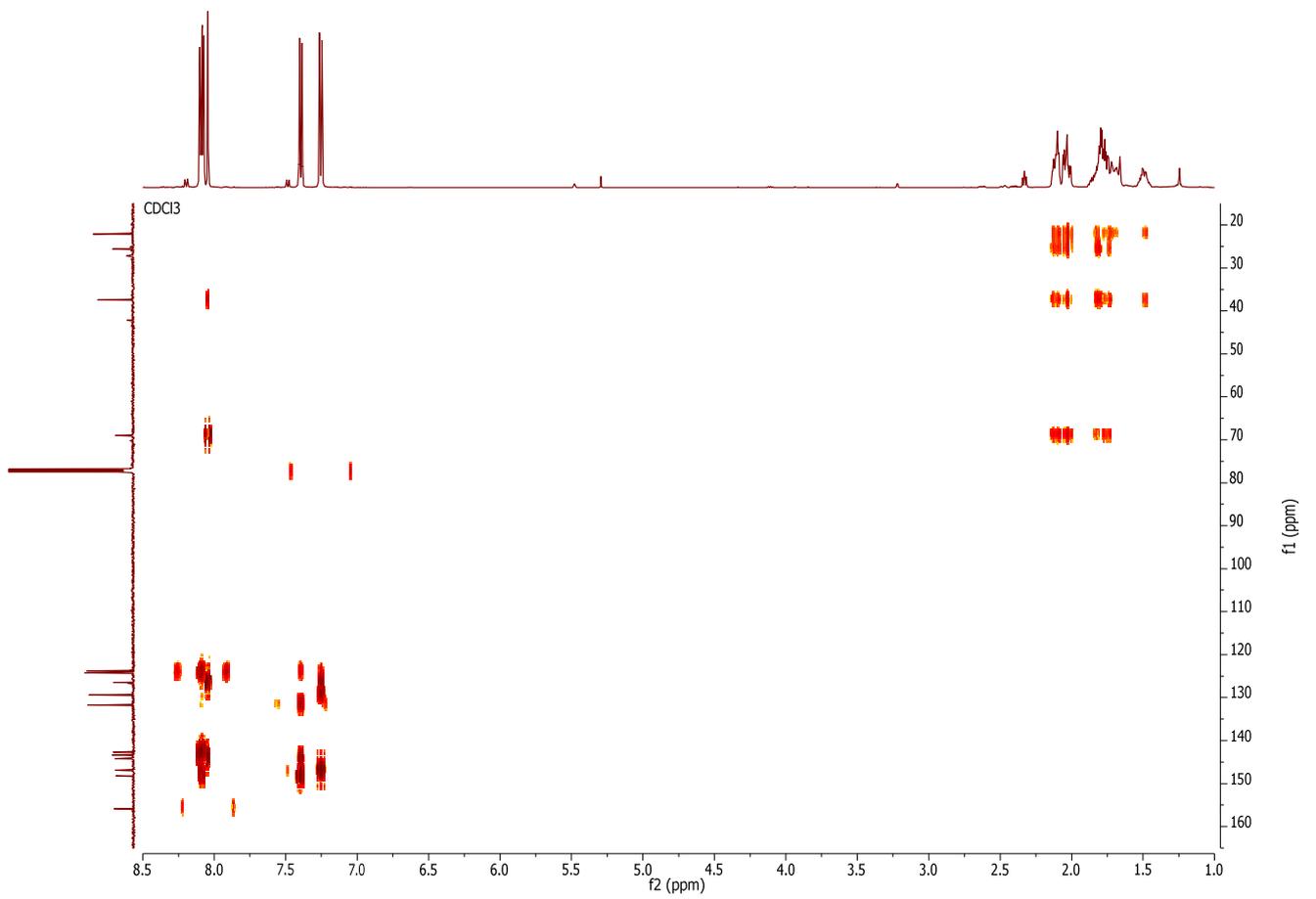
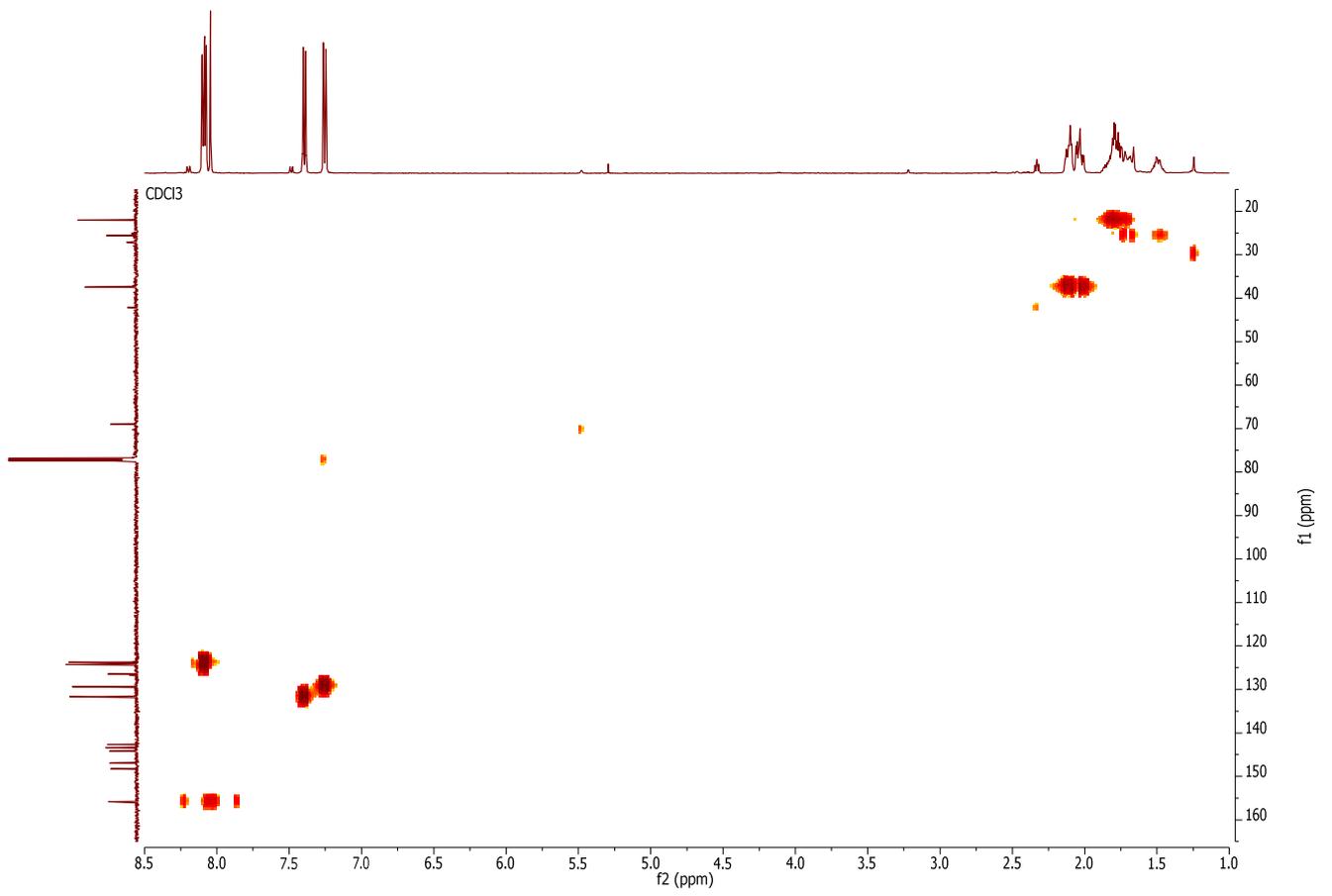


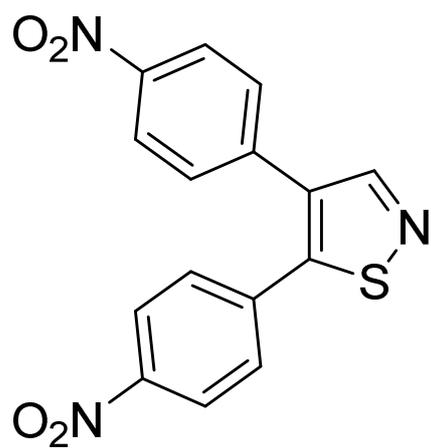
CDCl₃



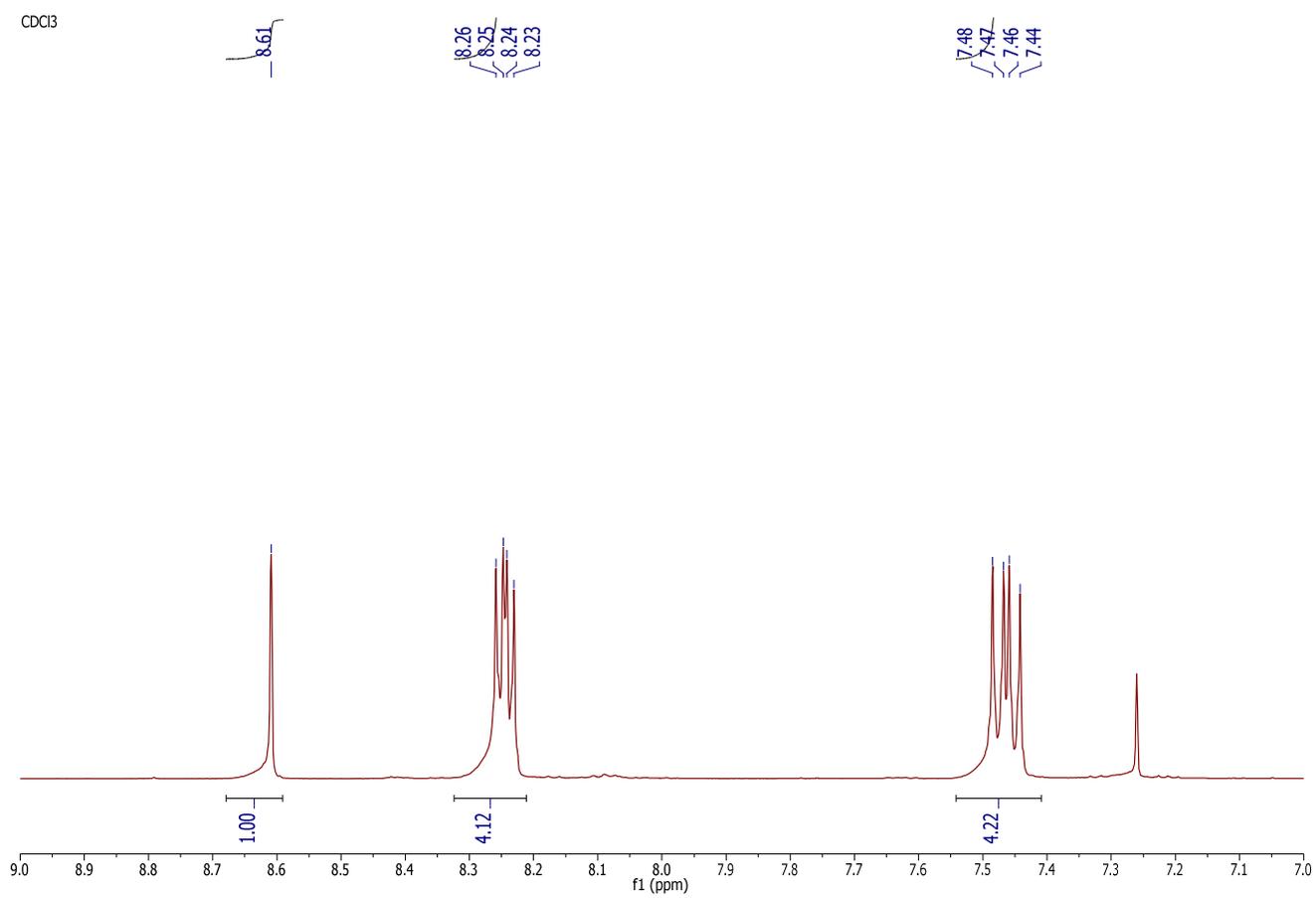
CDCl₃







3e



CDCl₃

160.86

158.70

148.44

147.69

138.68

136.30

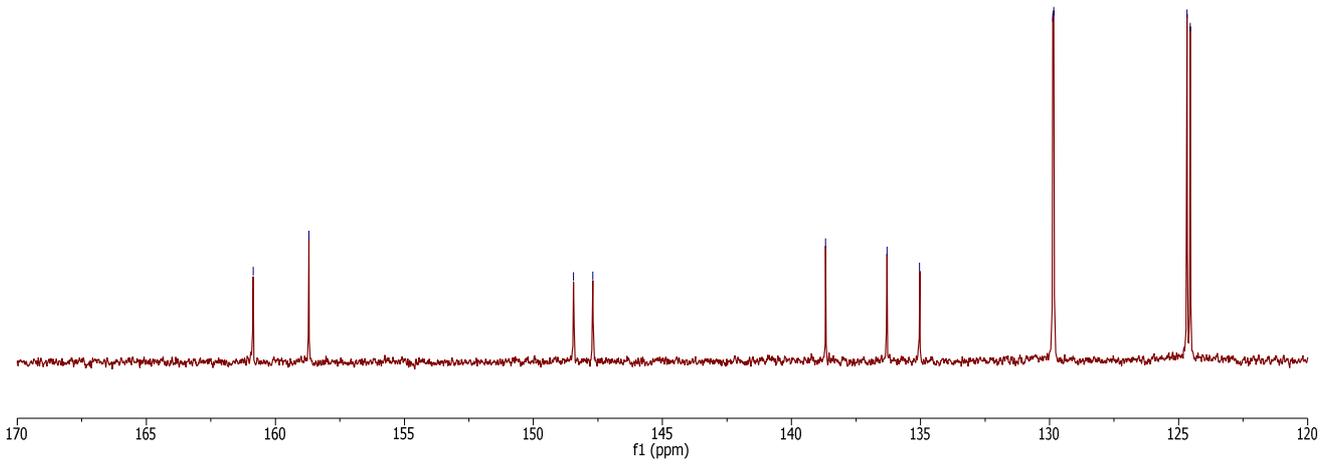
135.03

129.88

129.83

124.68

124.55



CDCl₃

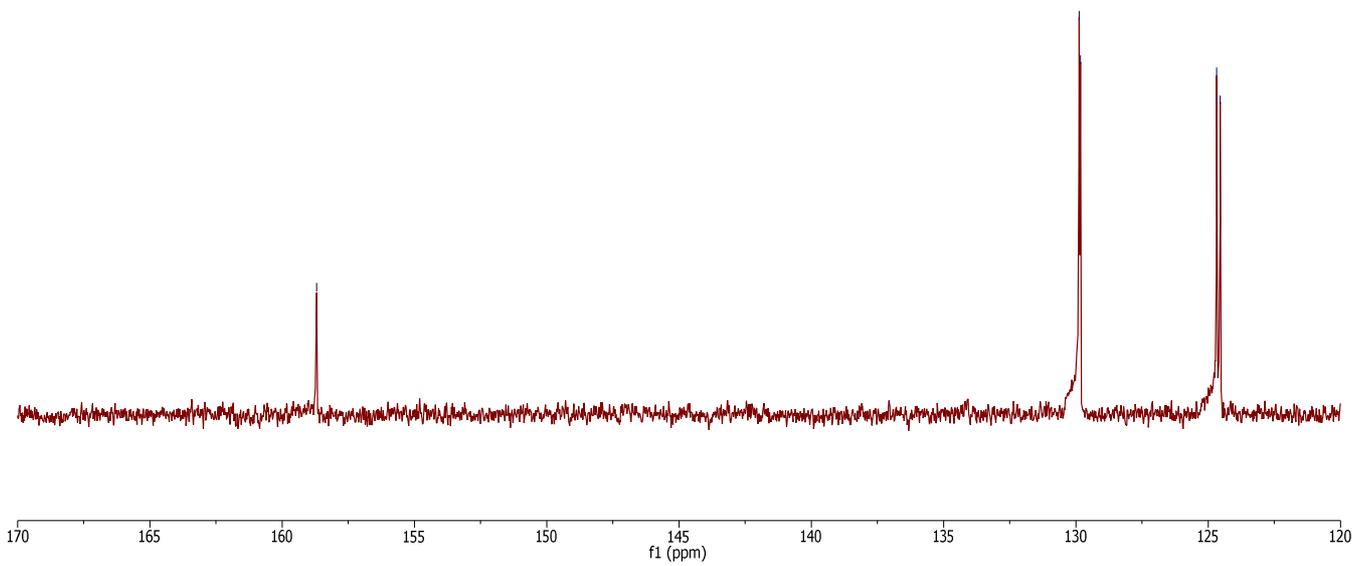
158.70

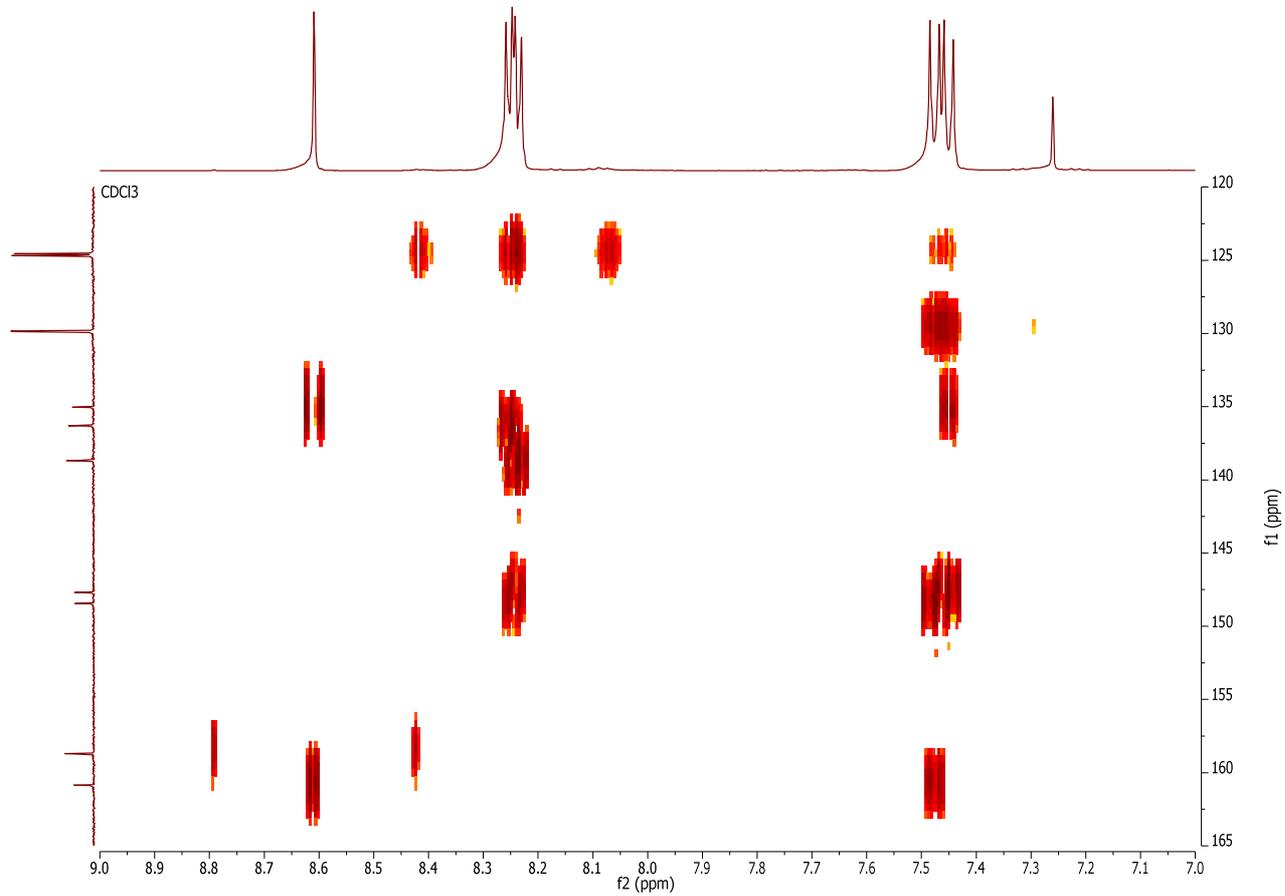
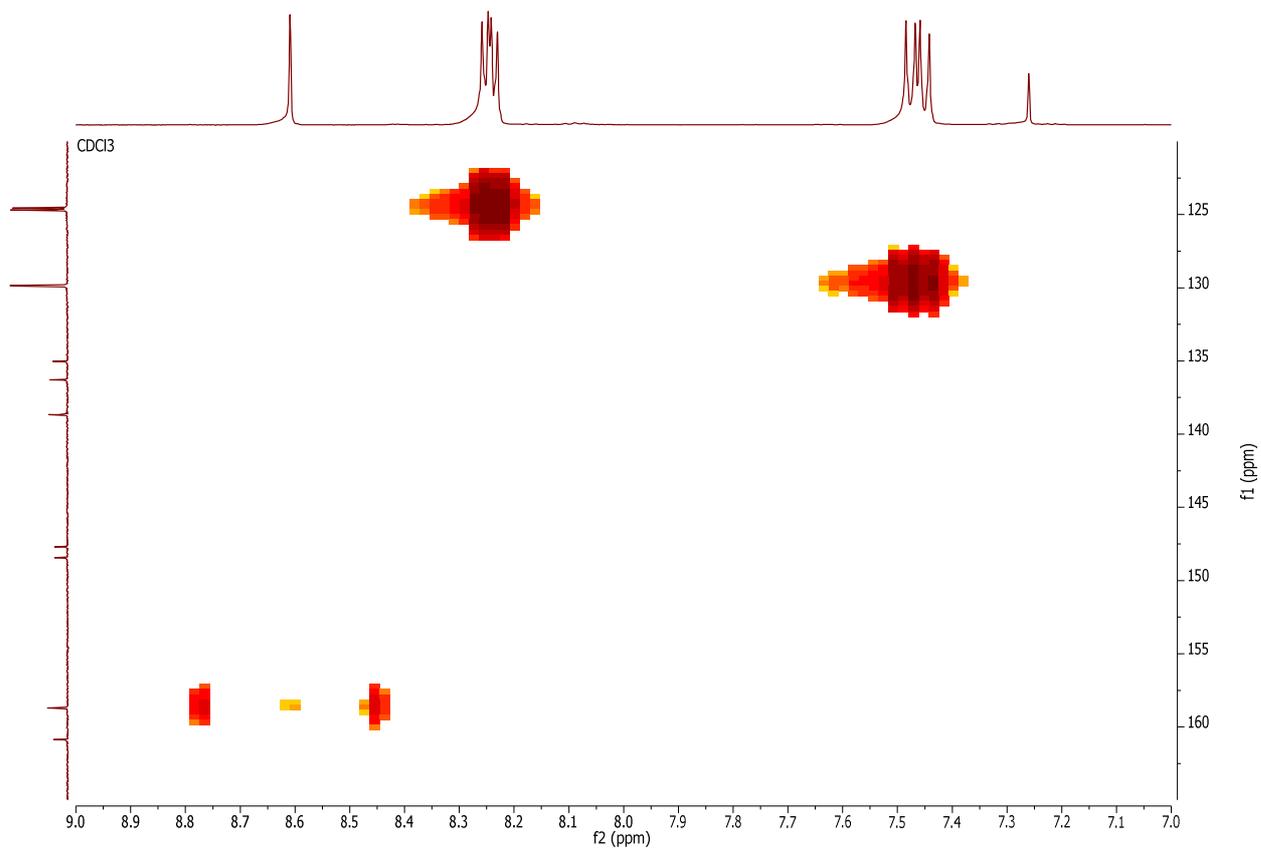
129.87

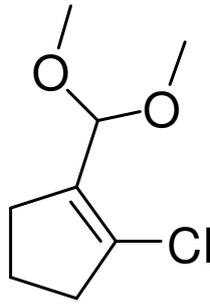
129.83

124.68

124.54

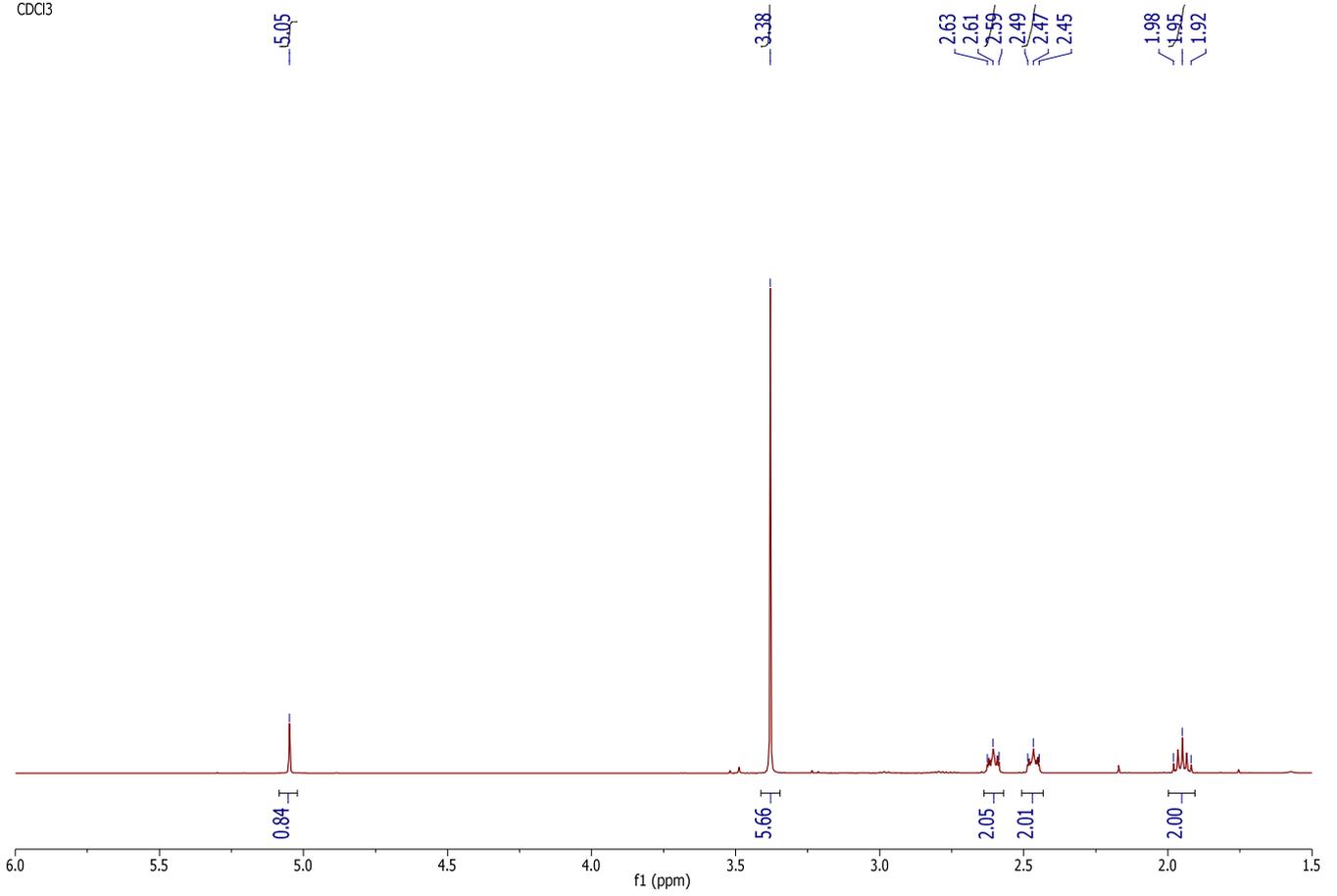




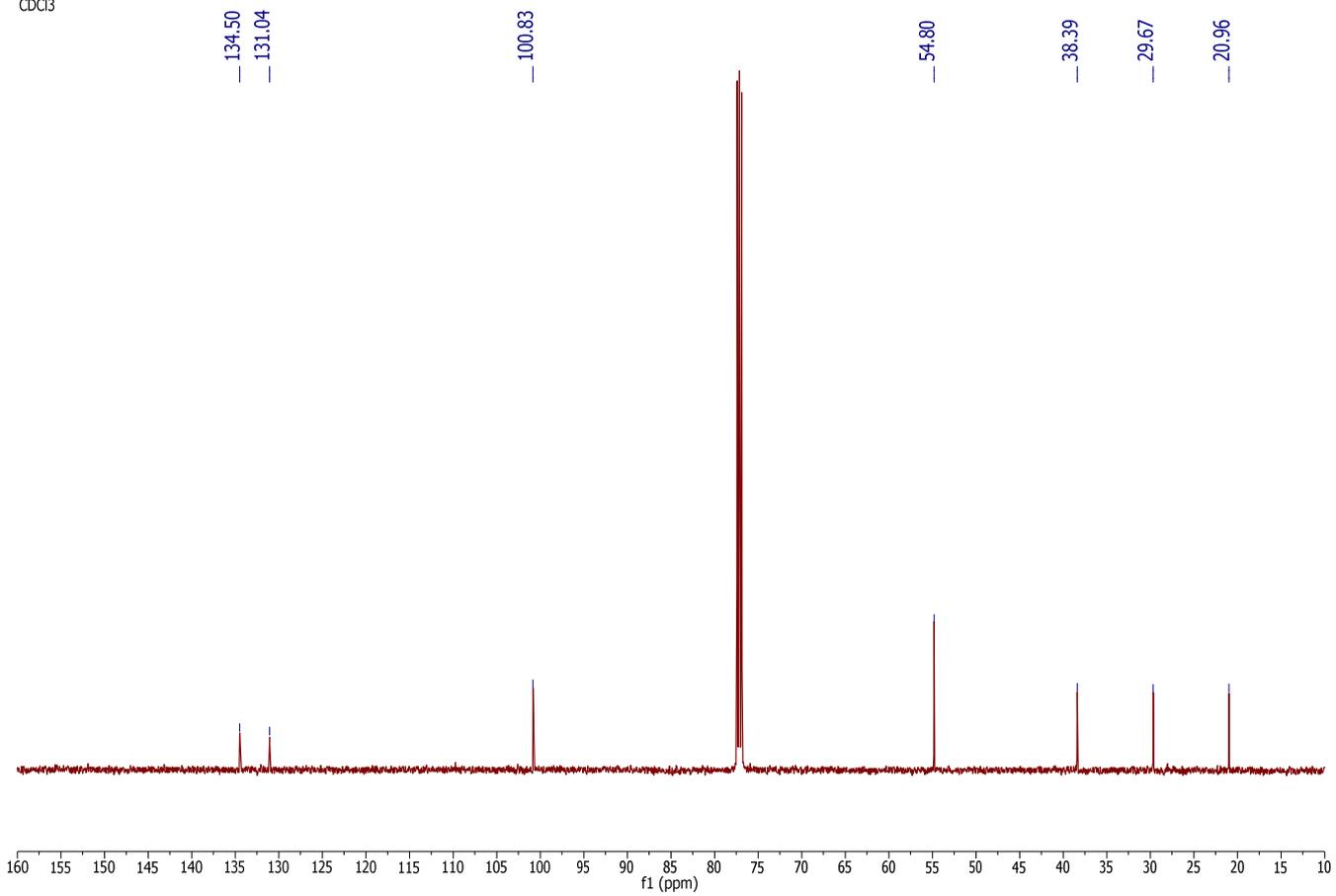


4

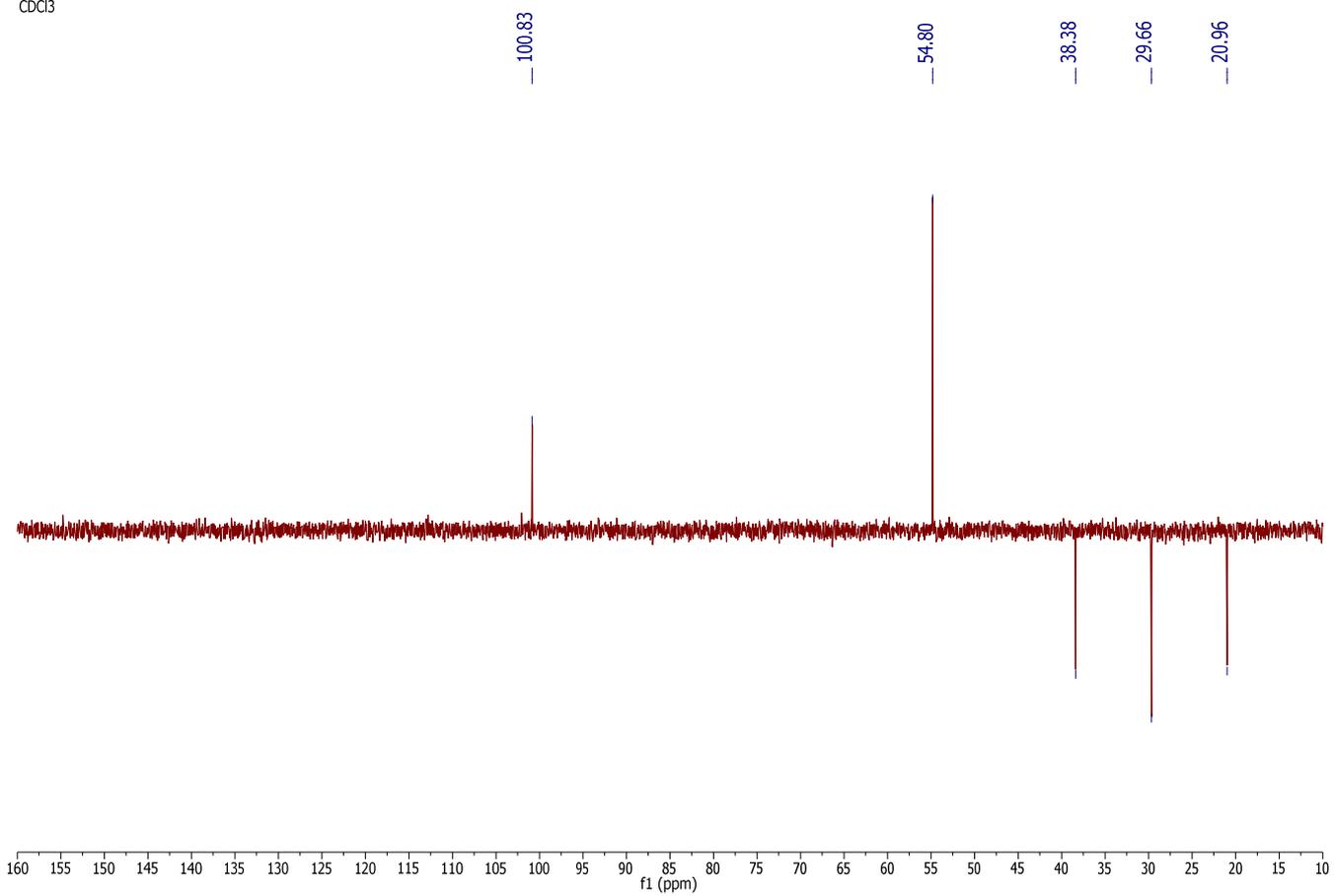
CDCl₃

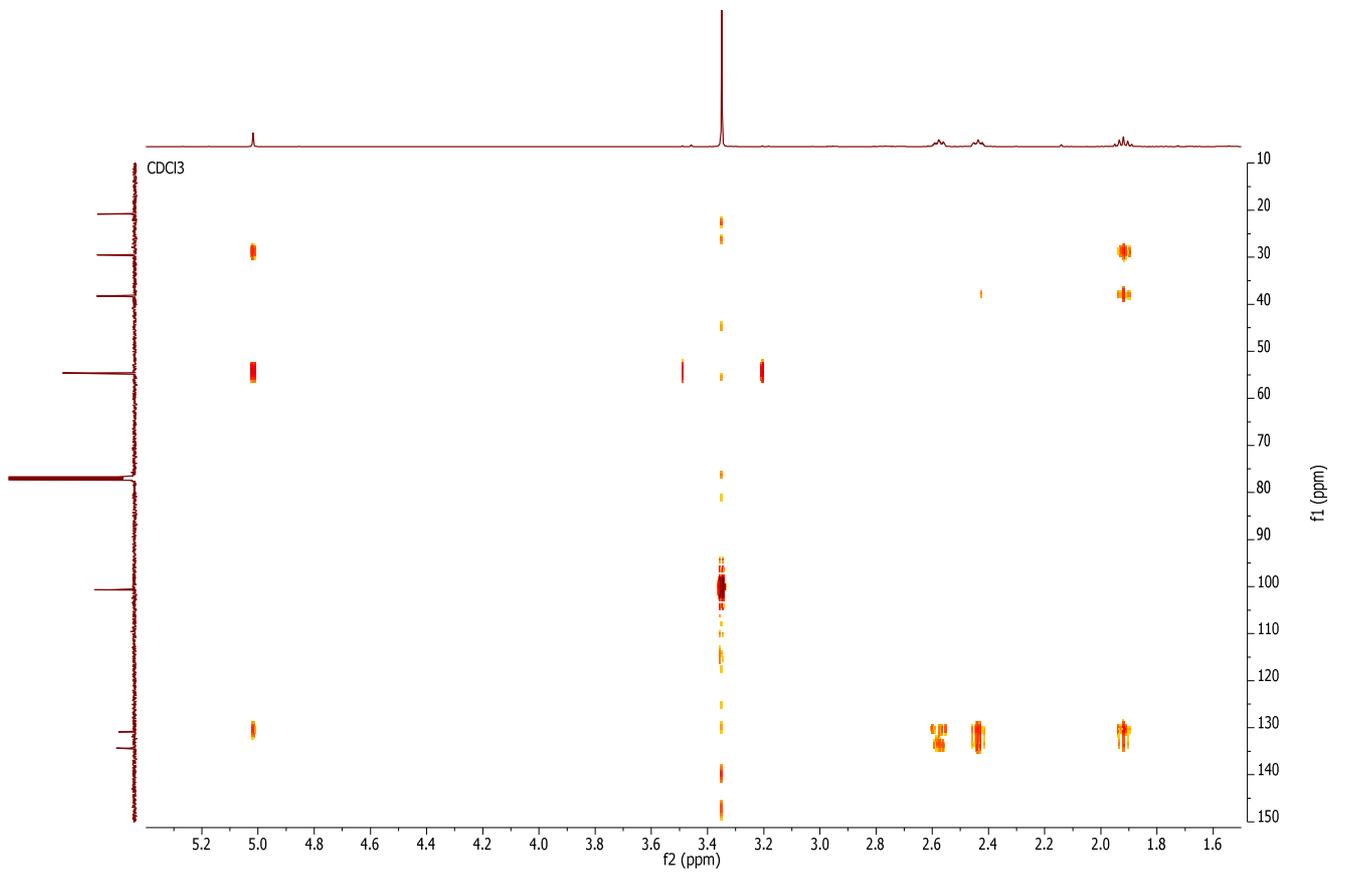
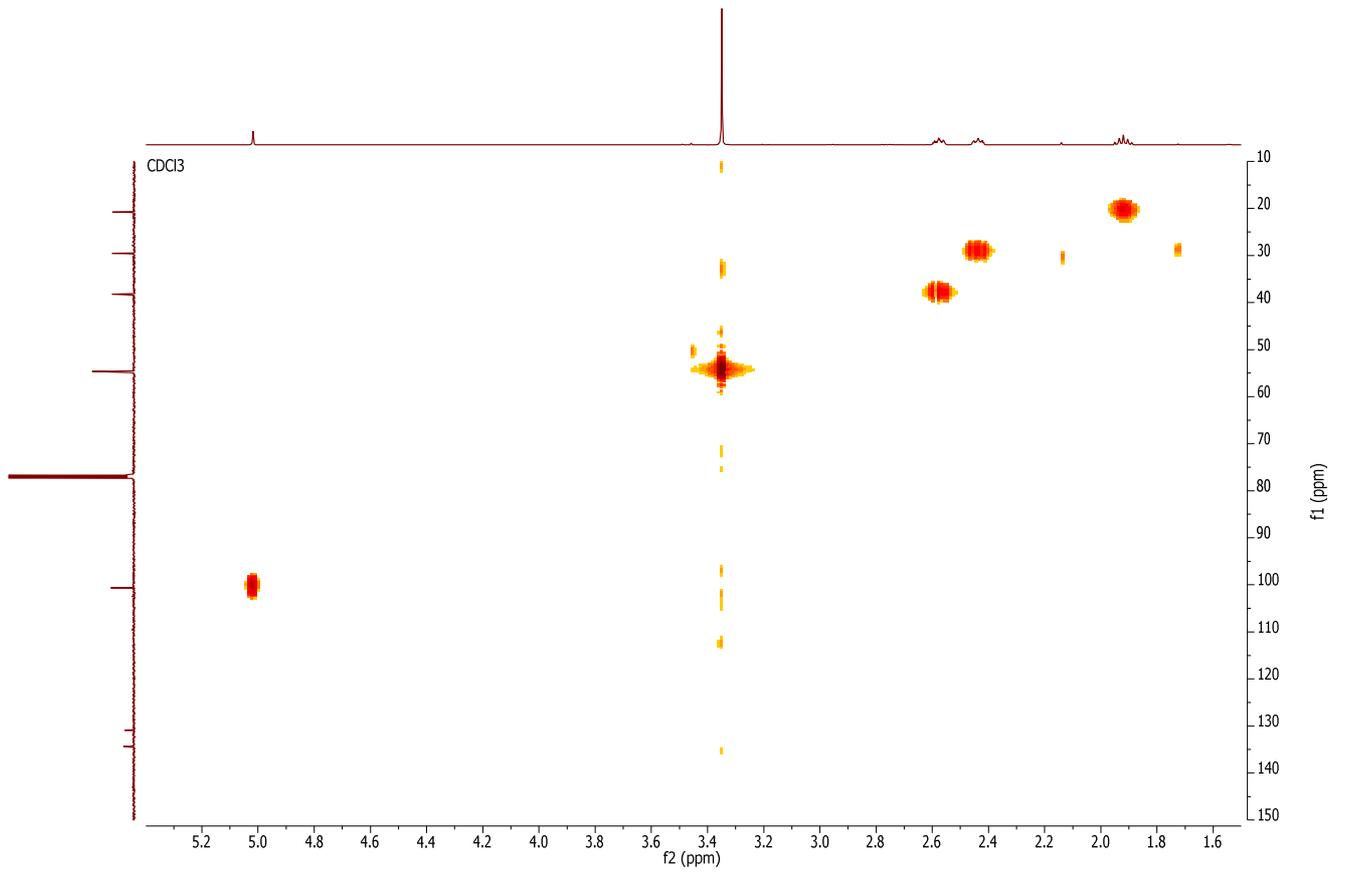


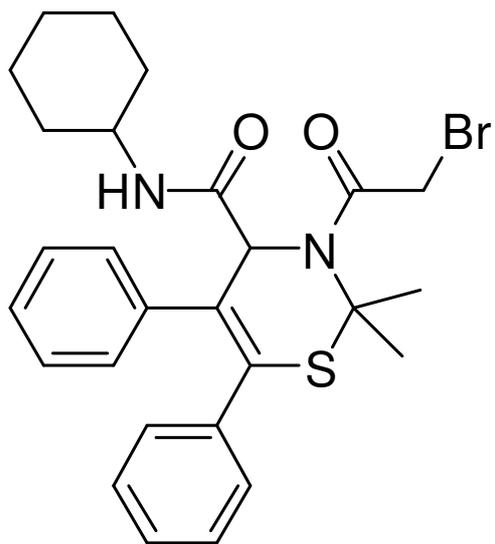
CDCl3



CDCl3







5a

CDCl₃

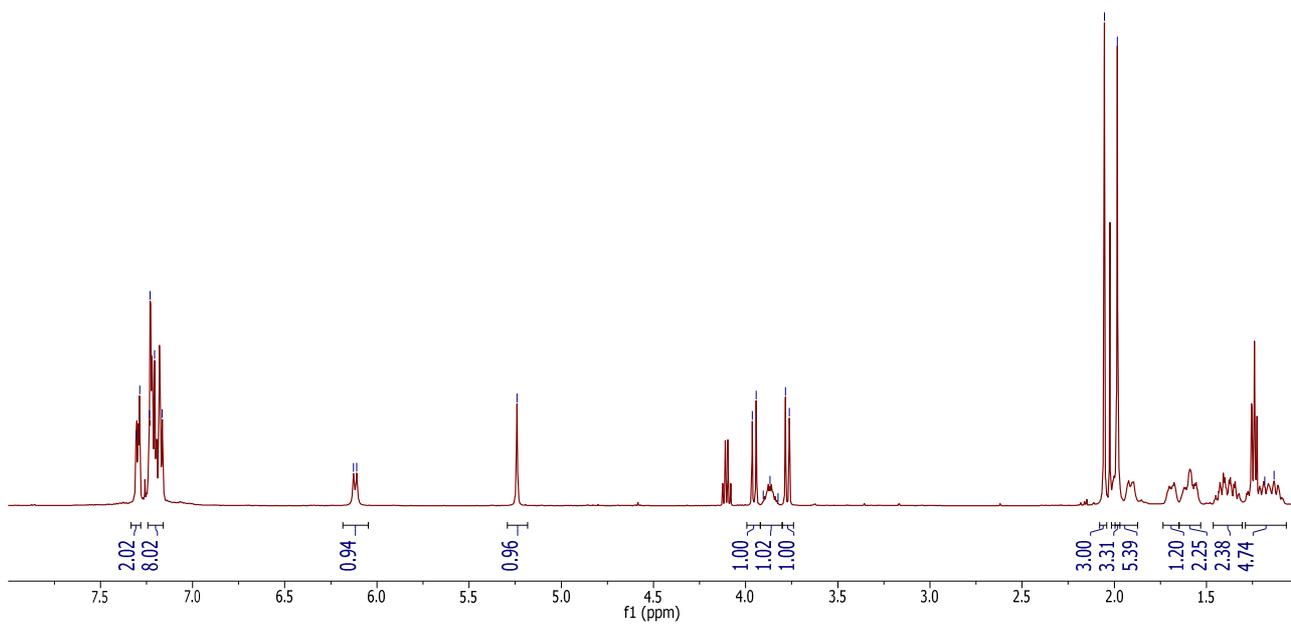
7.31
7.29
7.23
7.23
7.21
7.16

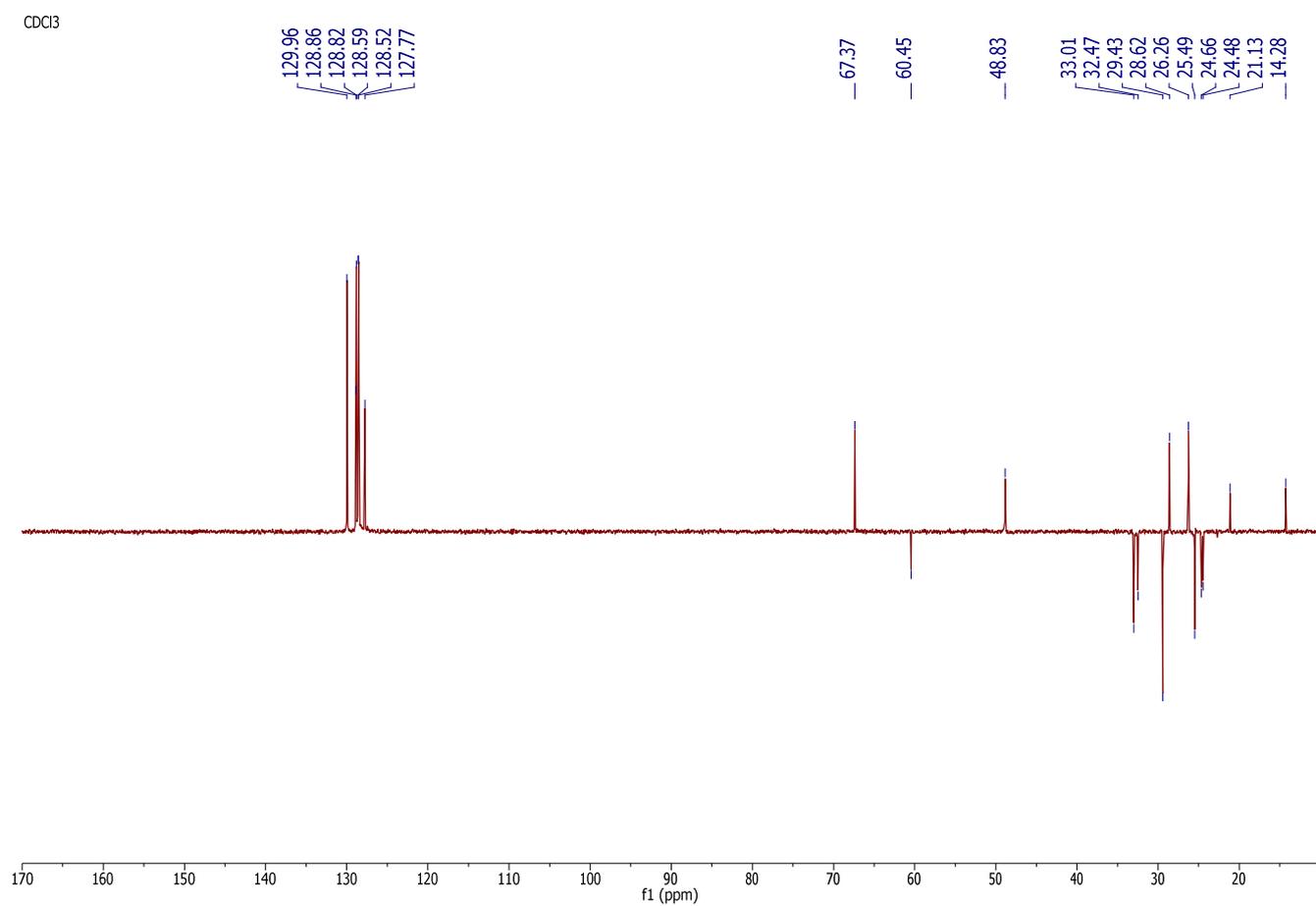
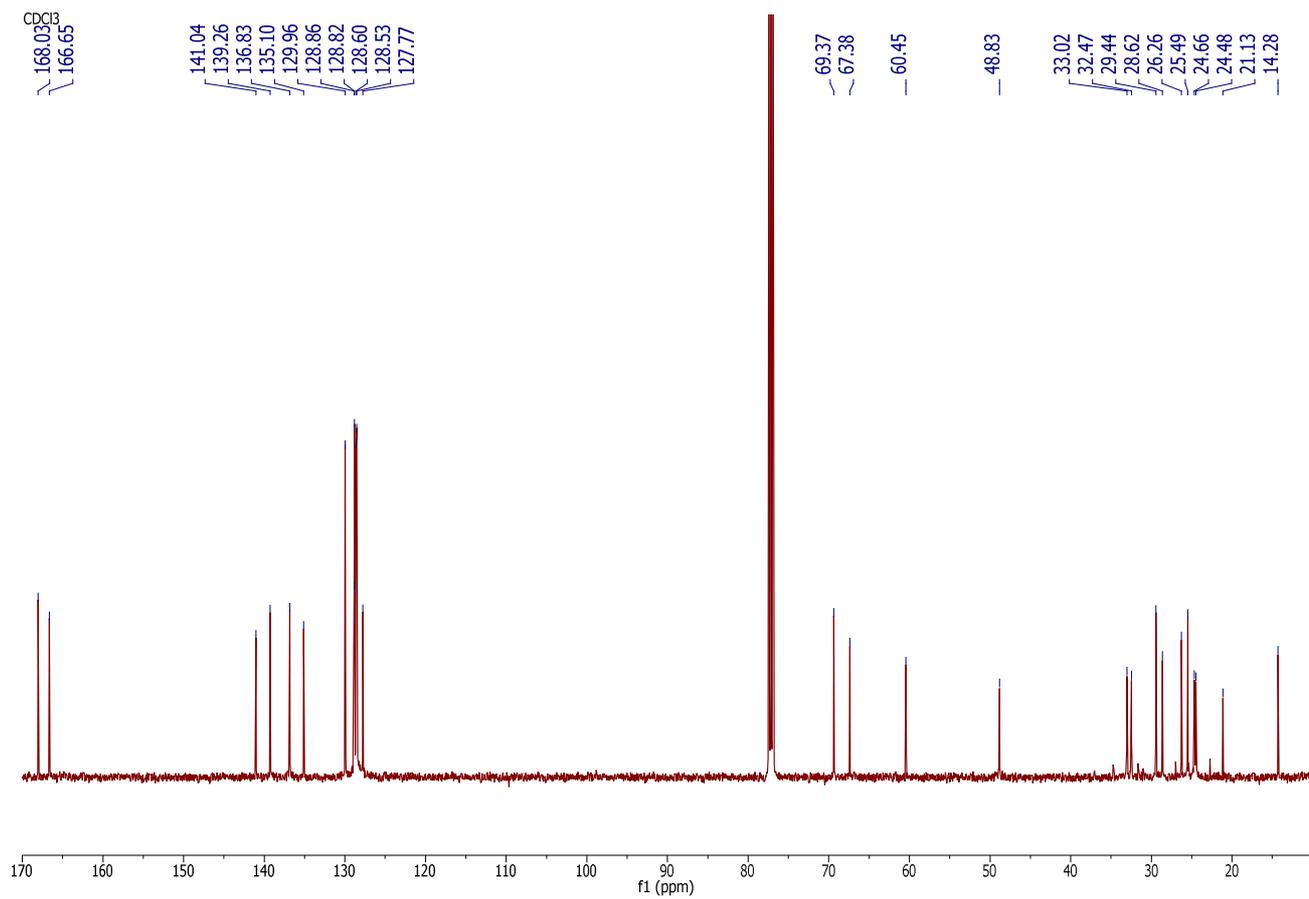
6.13
6.11

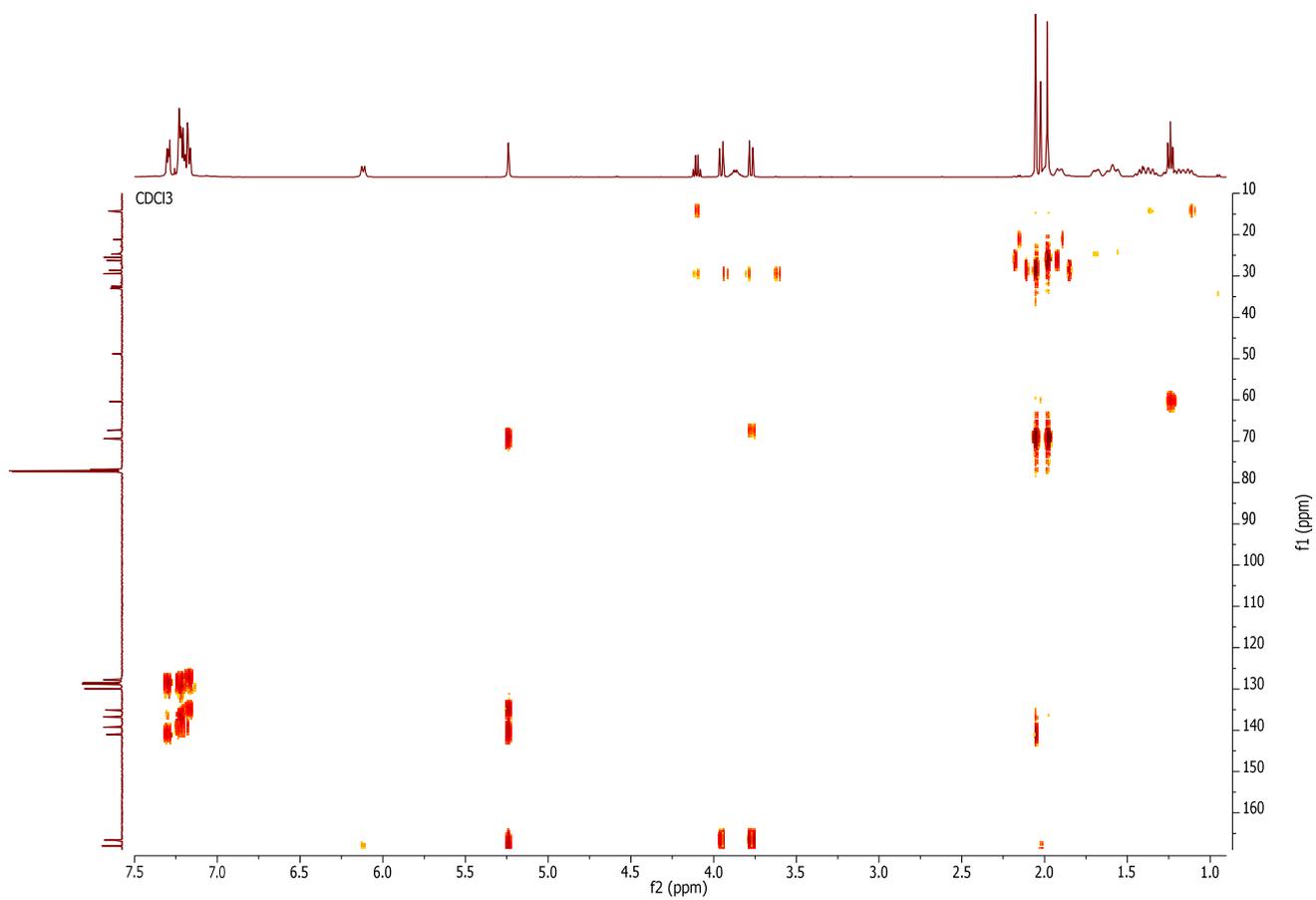
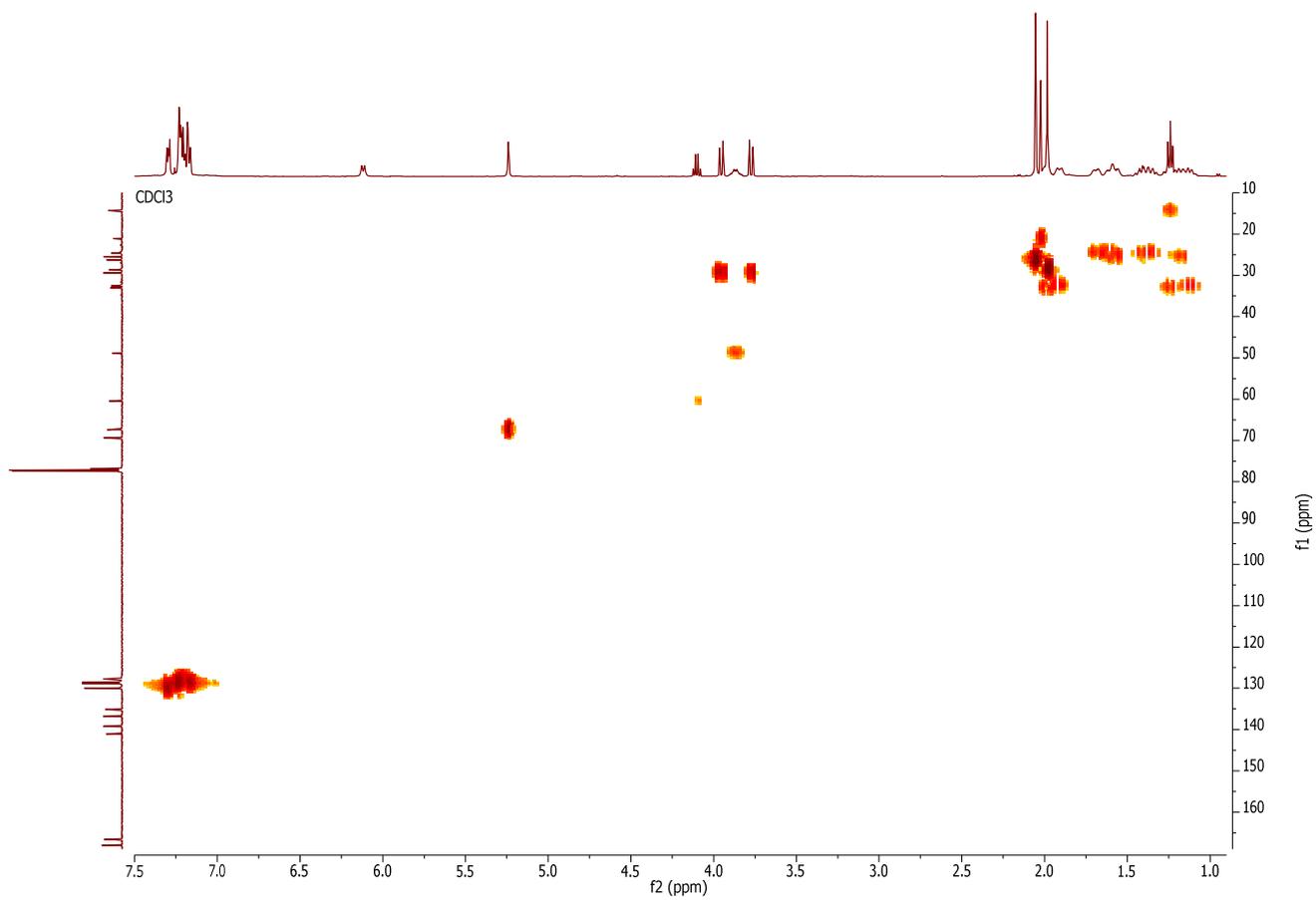
5.24

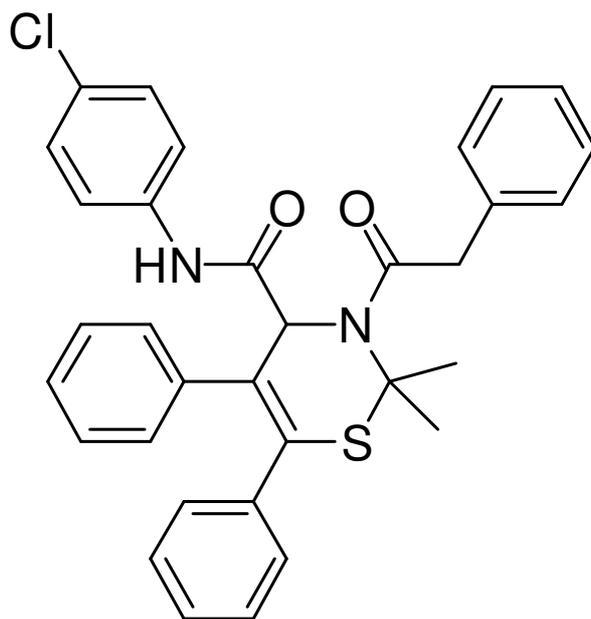
3.96
3.94
3.90
3.87
3.82
3.78
3.76

2.05
1.96
1.18
1.13

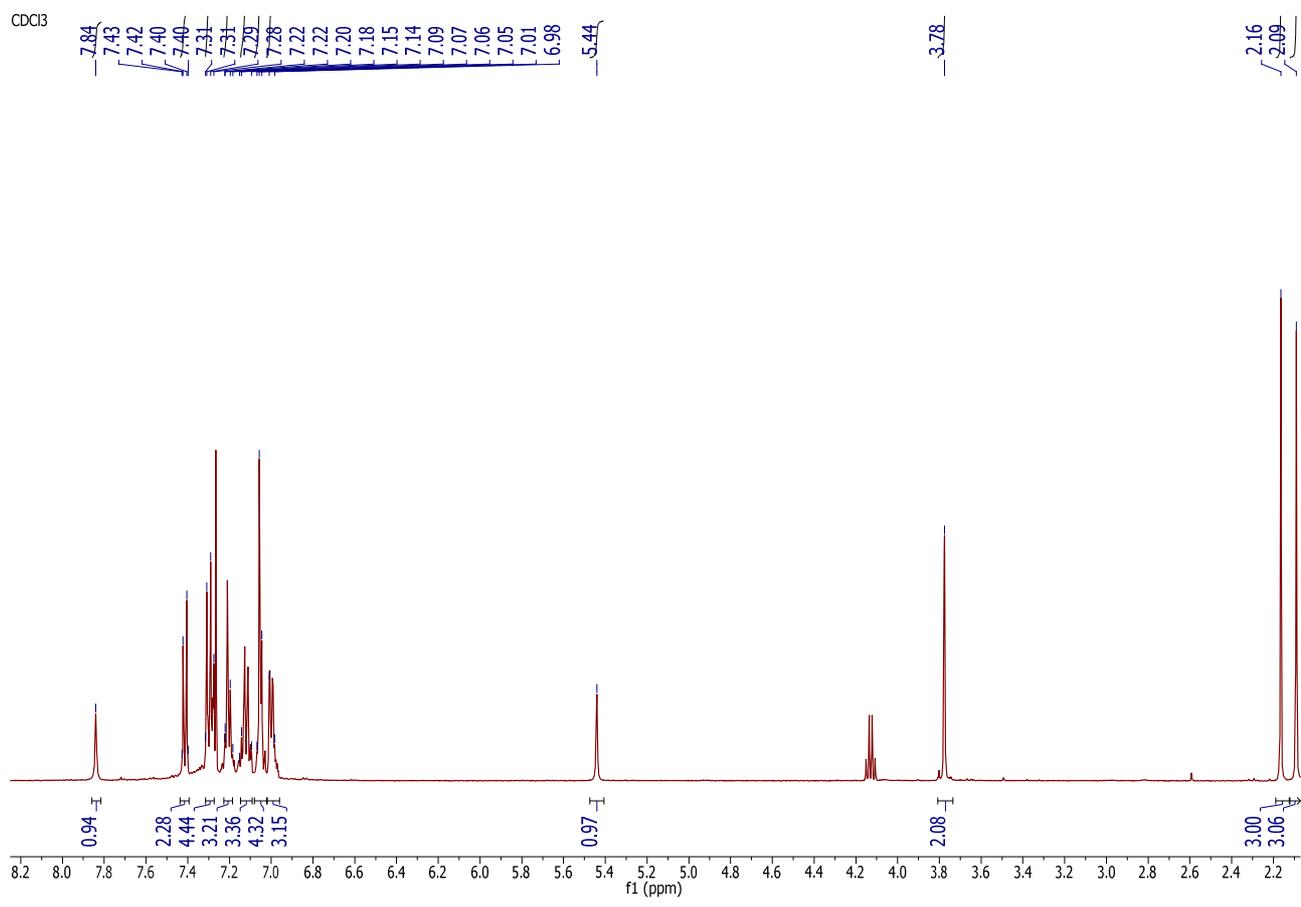


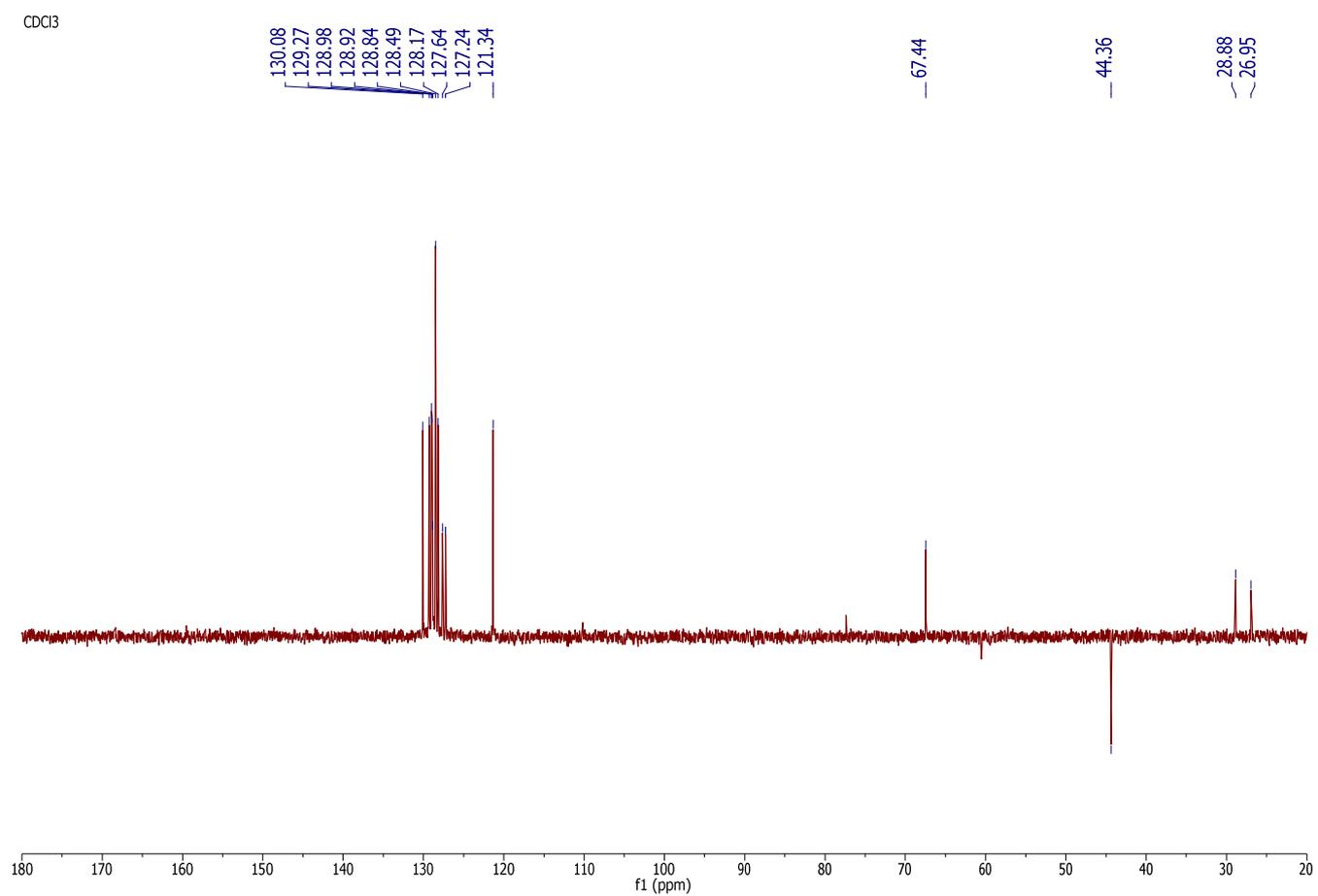
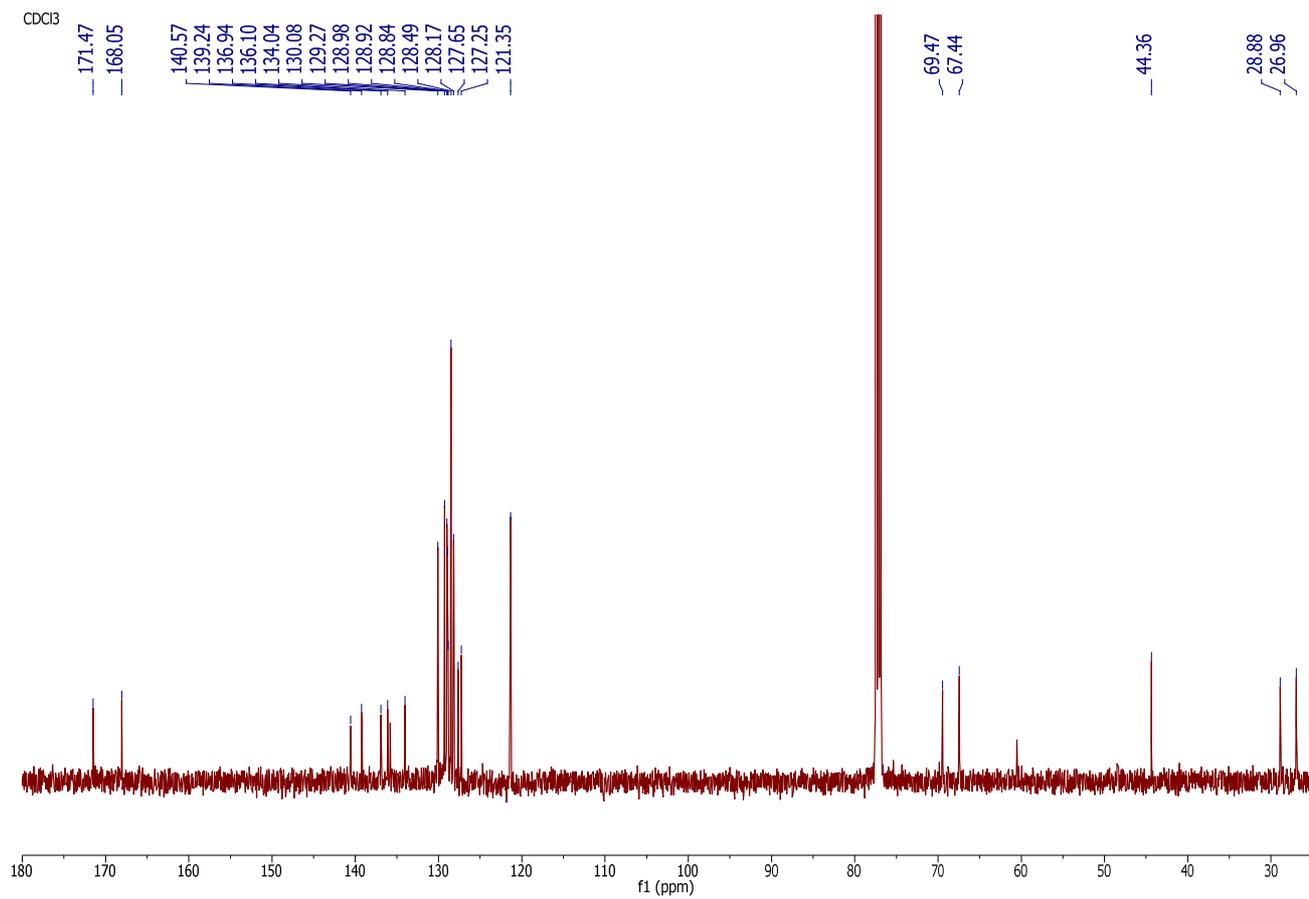


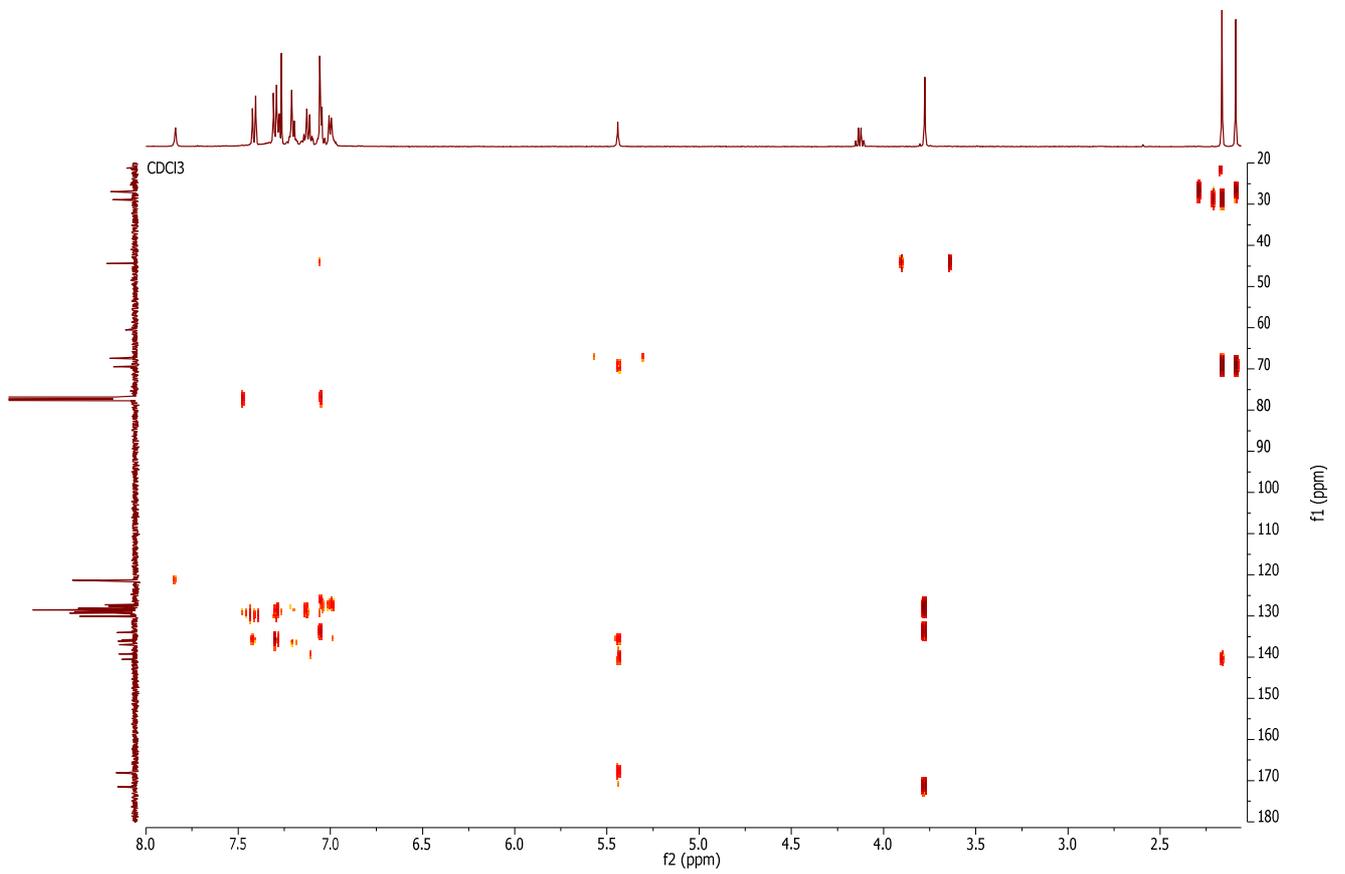
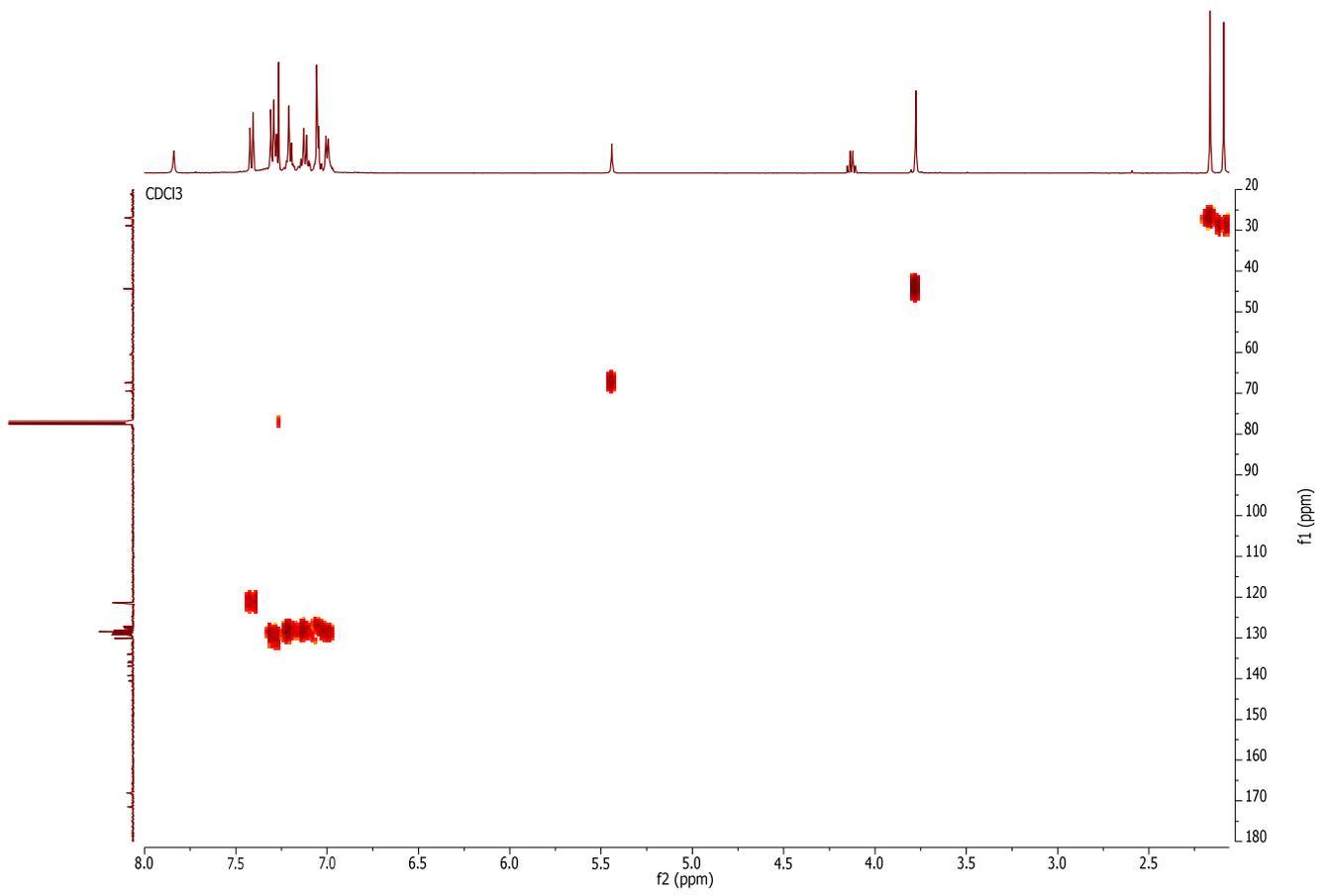


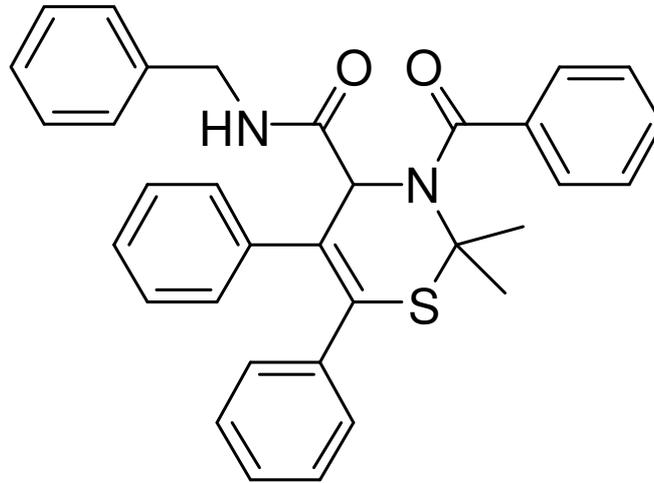


5b

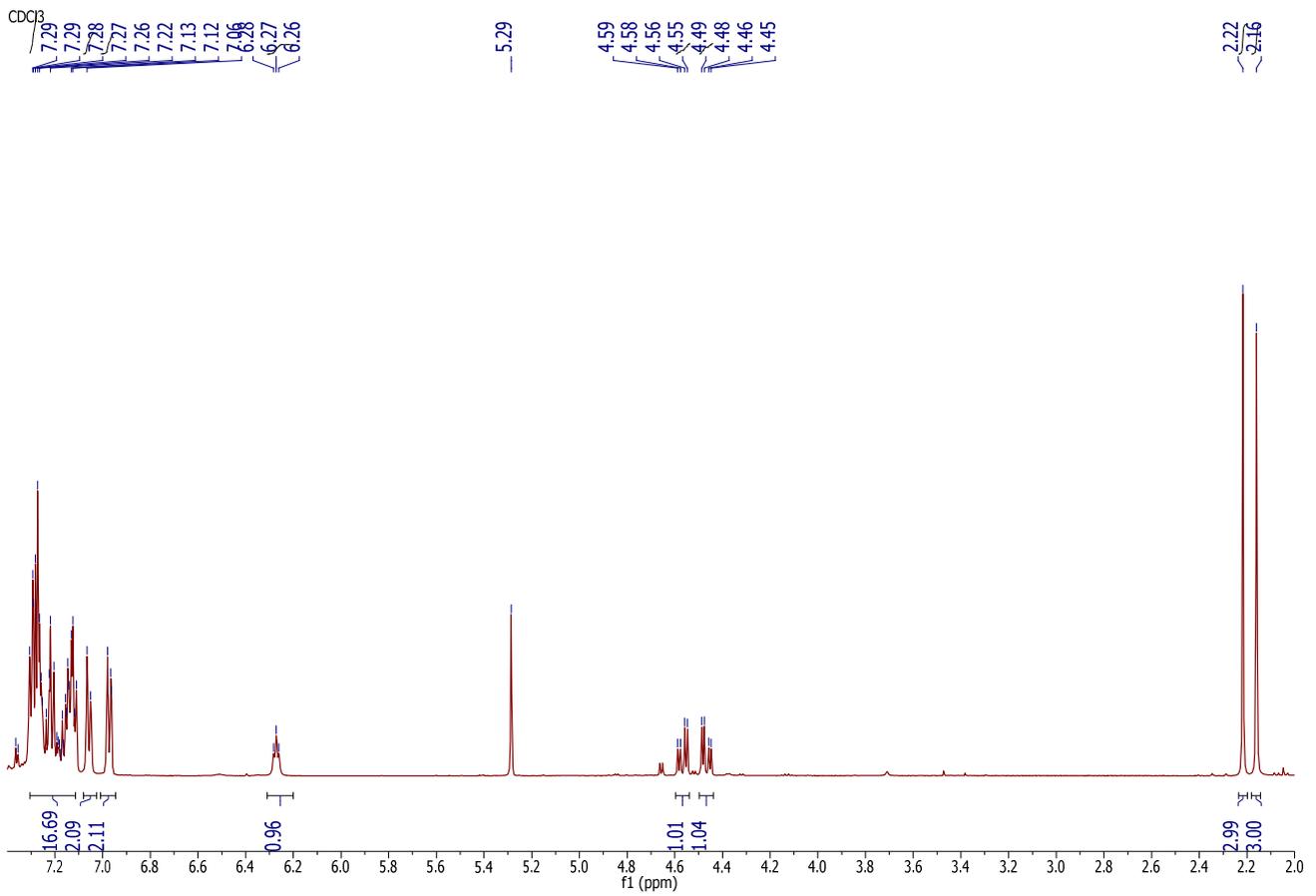








5c



CDCl₃

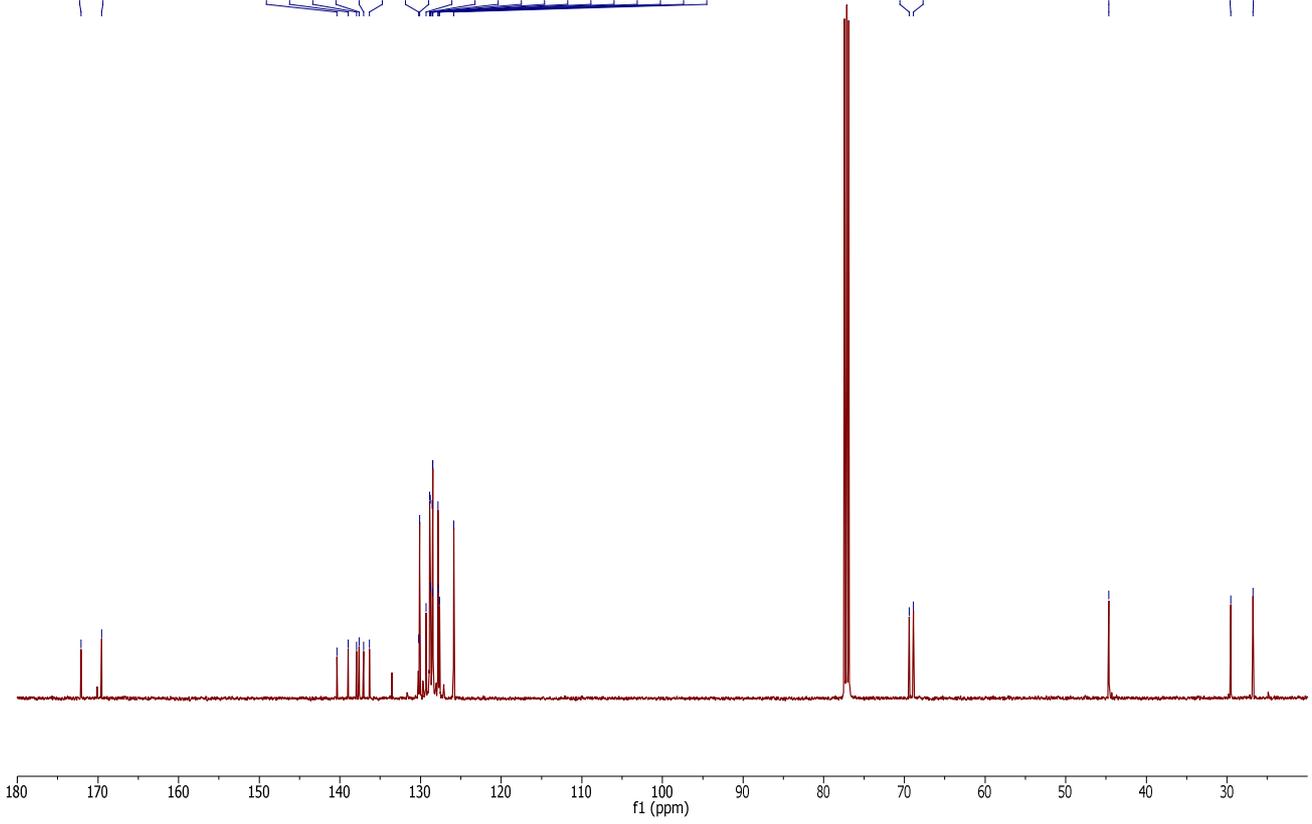
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169.55

140.37
138.97
137.93
137.62
137.06
136.33
130.24
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129.32
128.86
128.79
128.75
128.56
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127.82
127.78
127.62
125.89

69.39
68.87

44.64

29.55
26.76



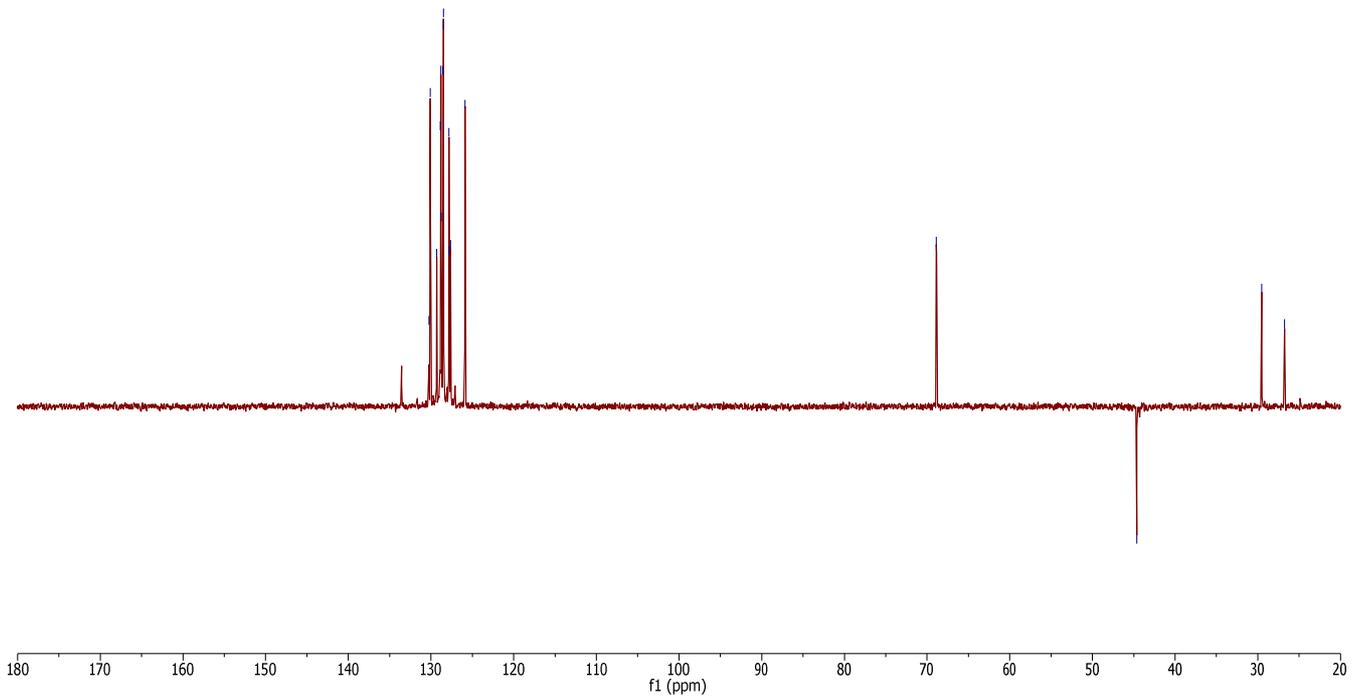
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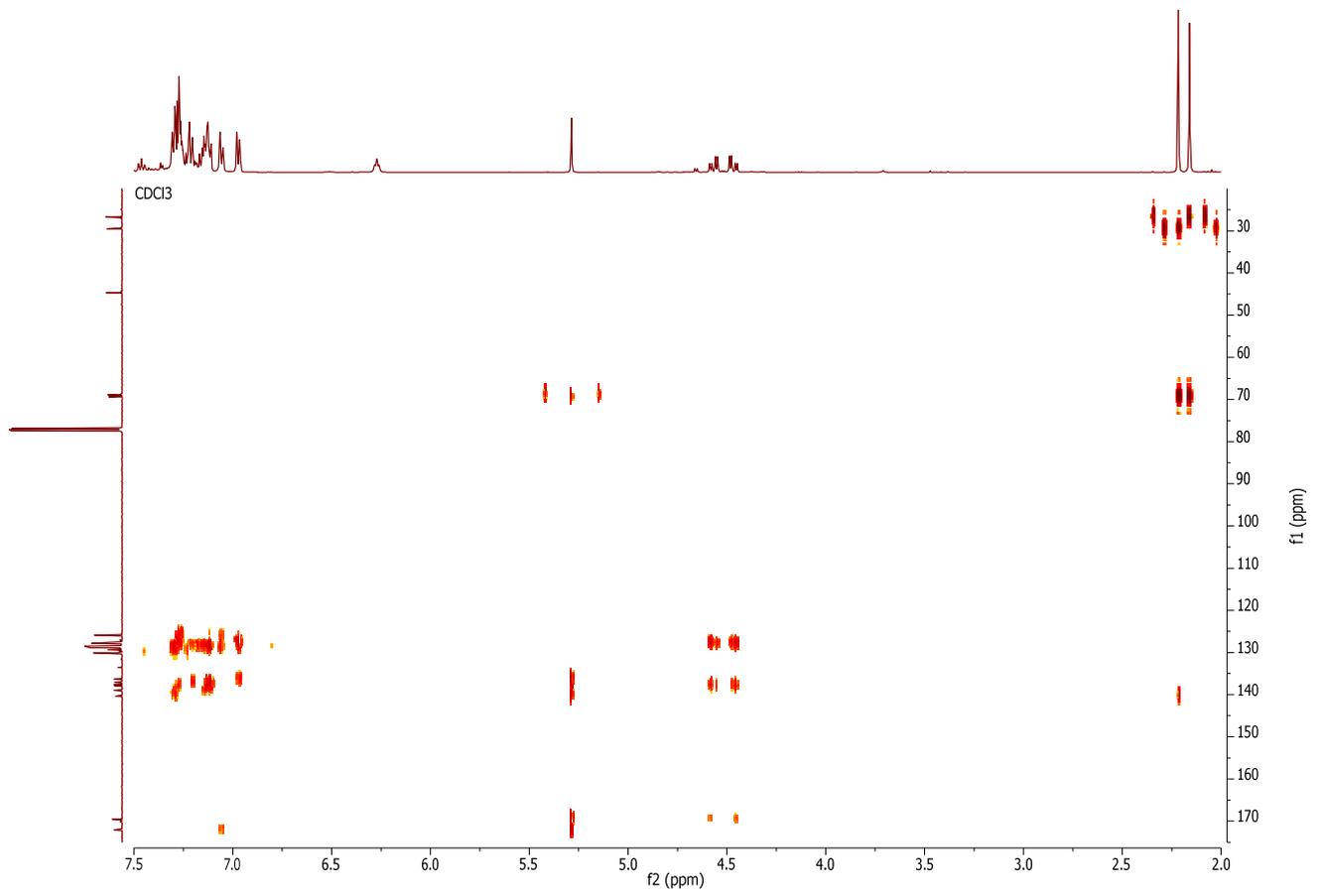
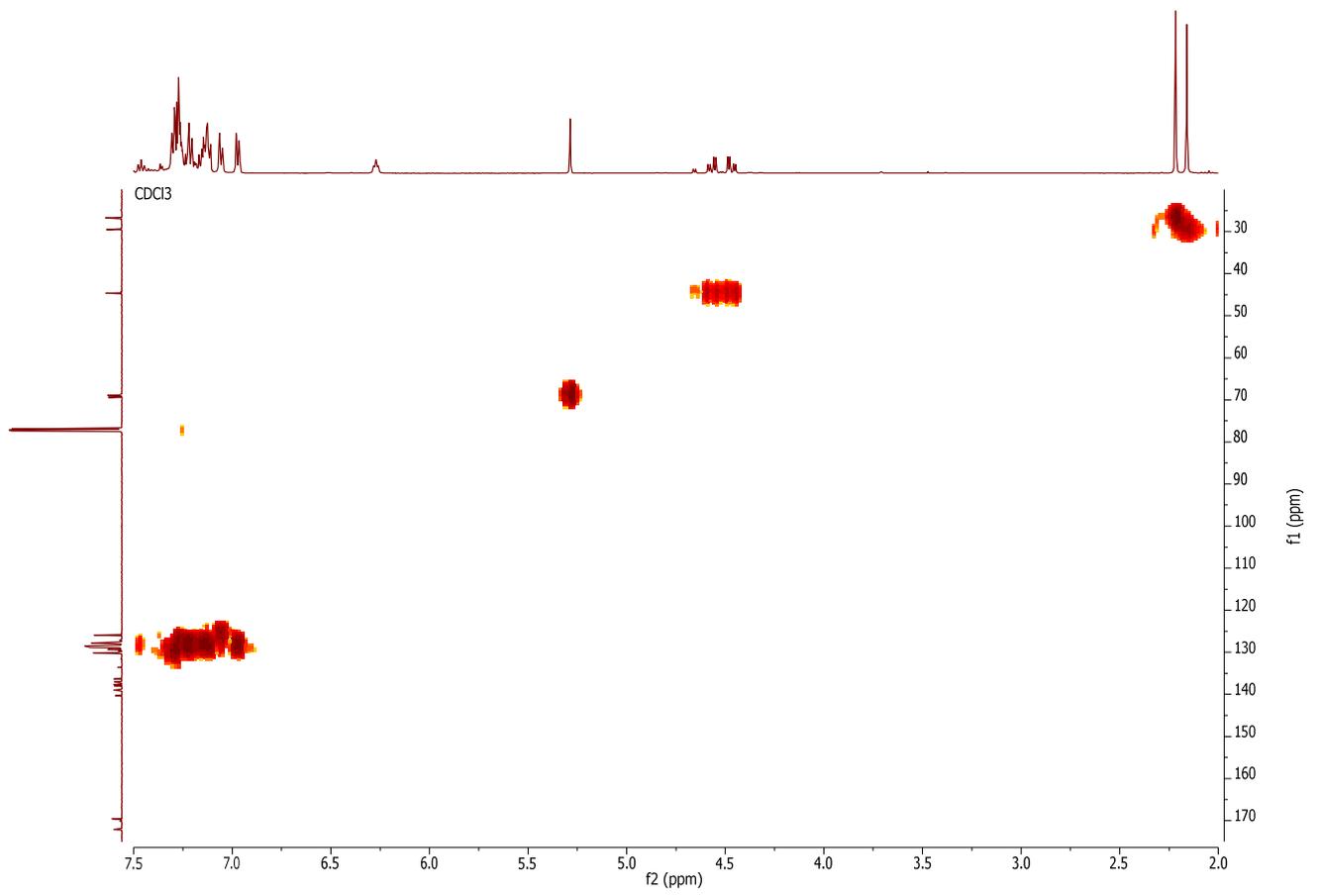
130.24
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128.55
128.49
128.48
127.82
127.77
127.62
125.88

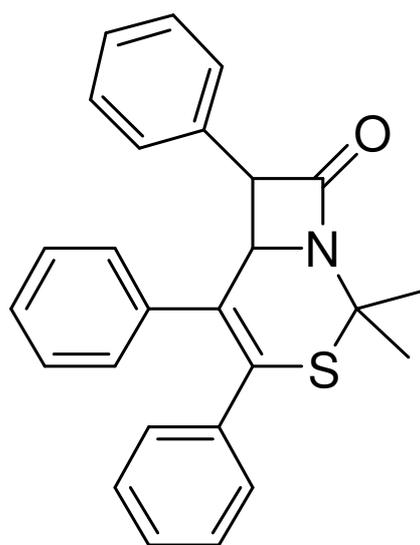
68.87

44.64

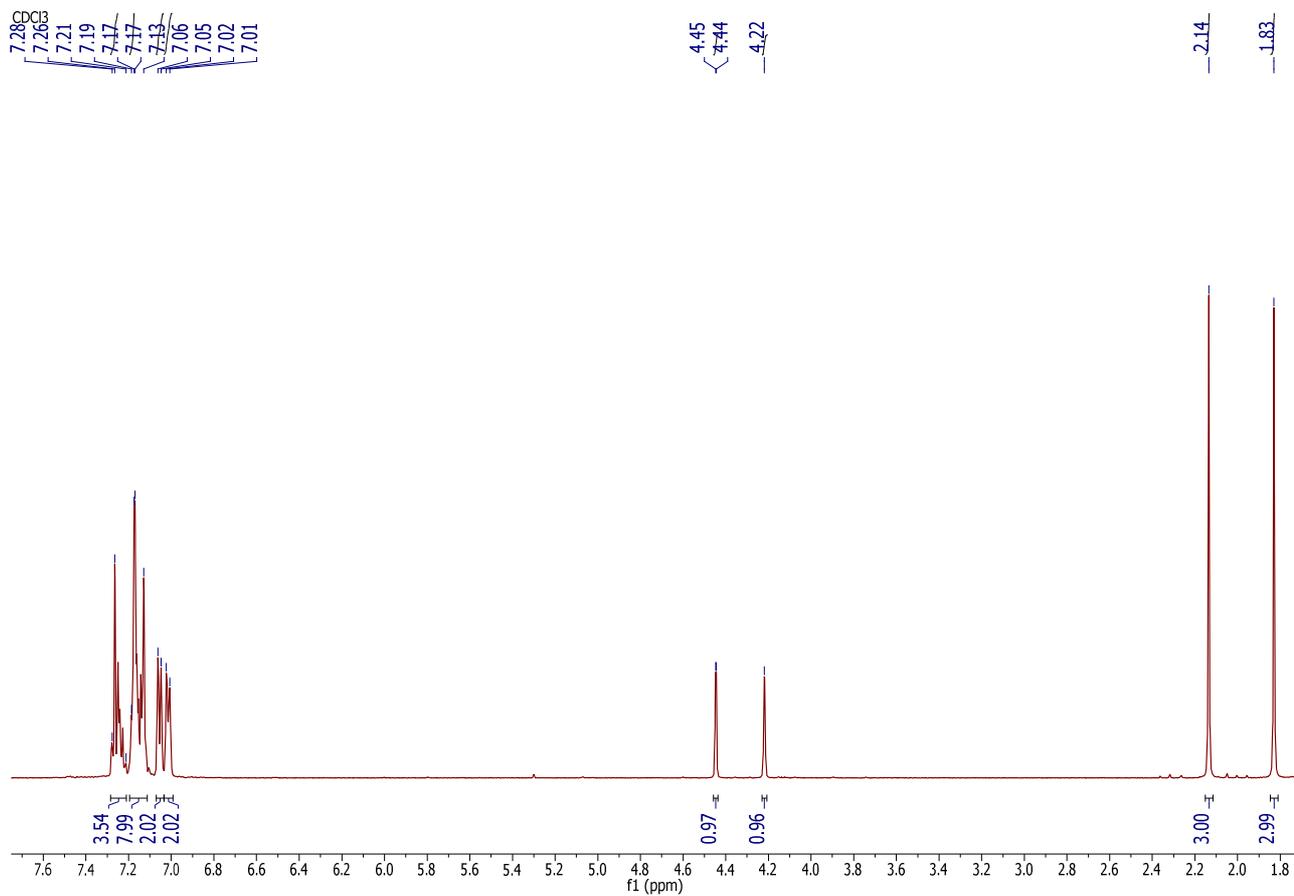
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26.75



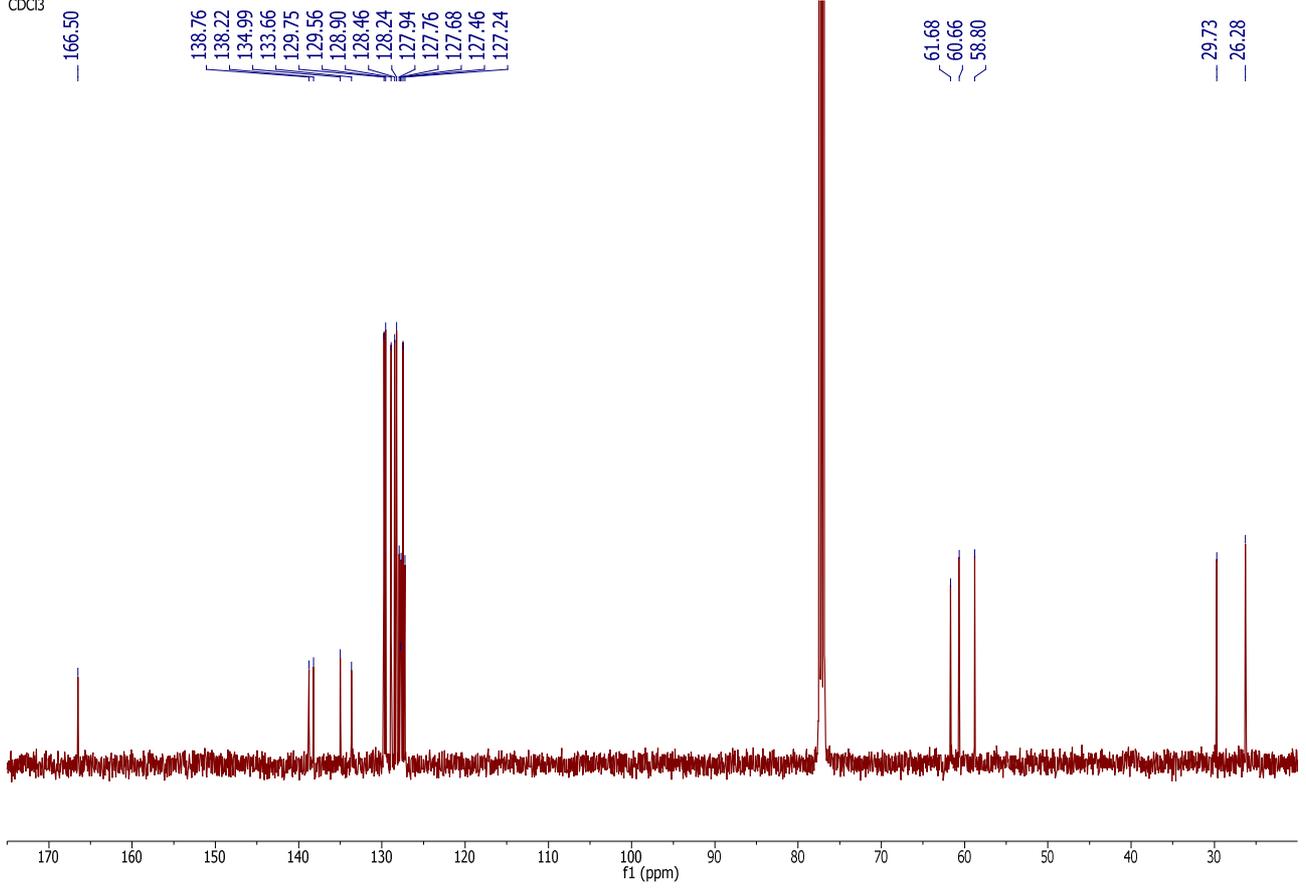




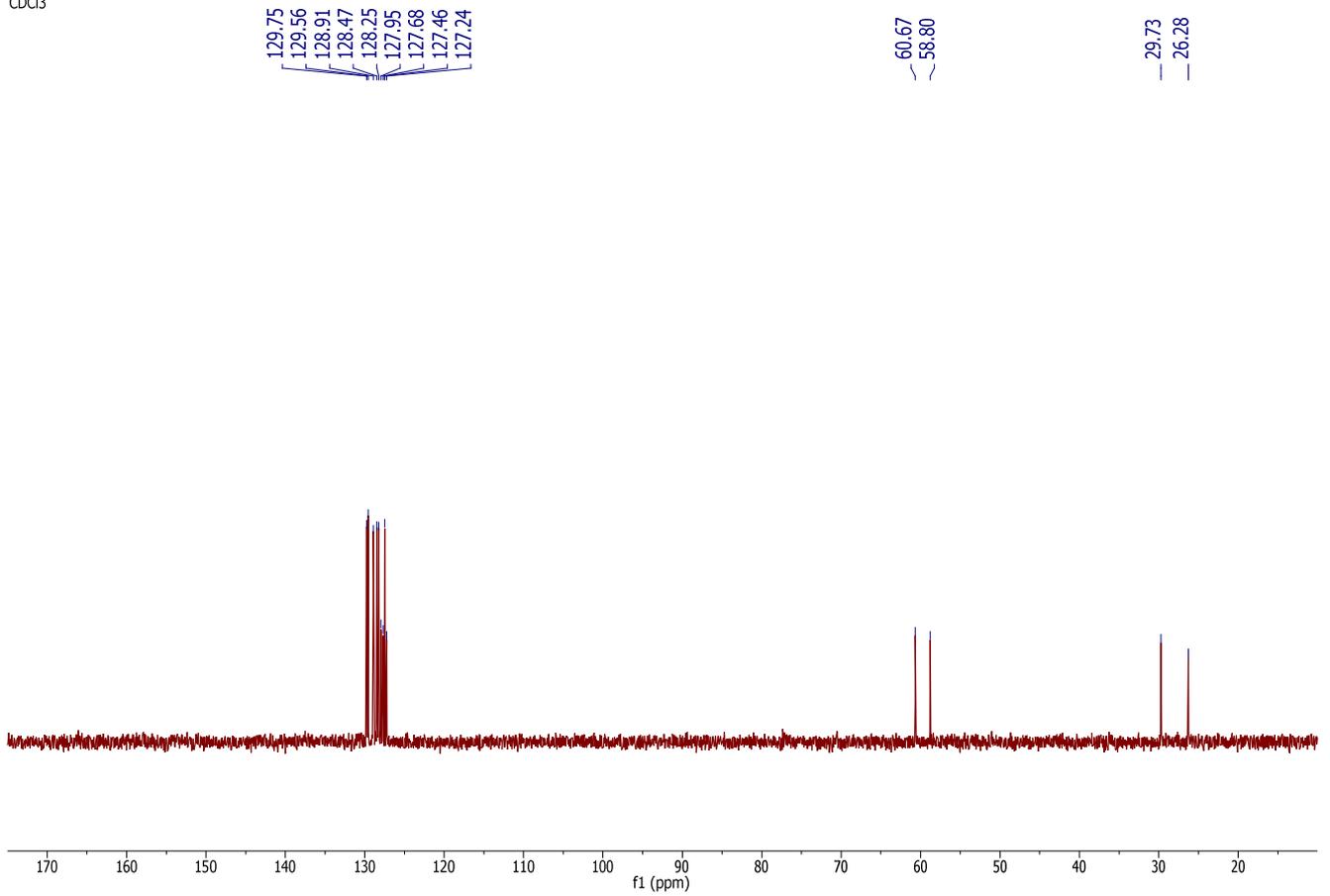
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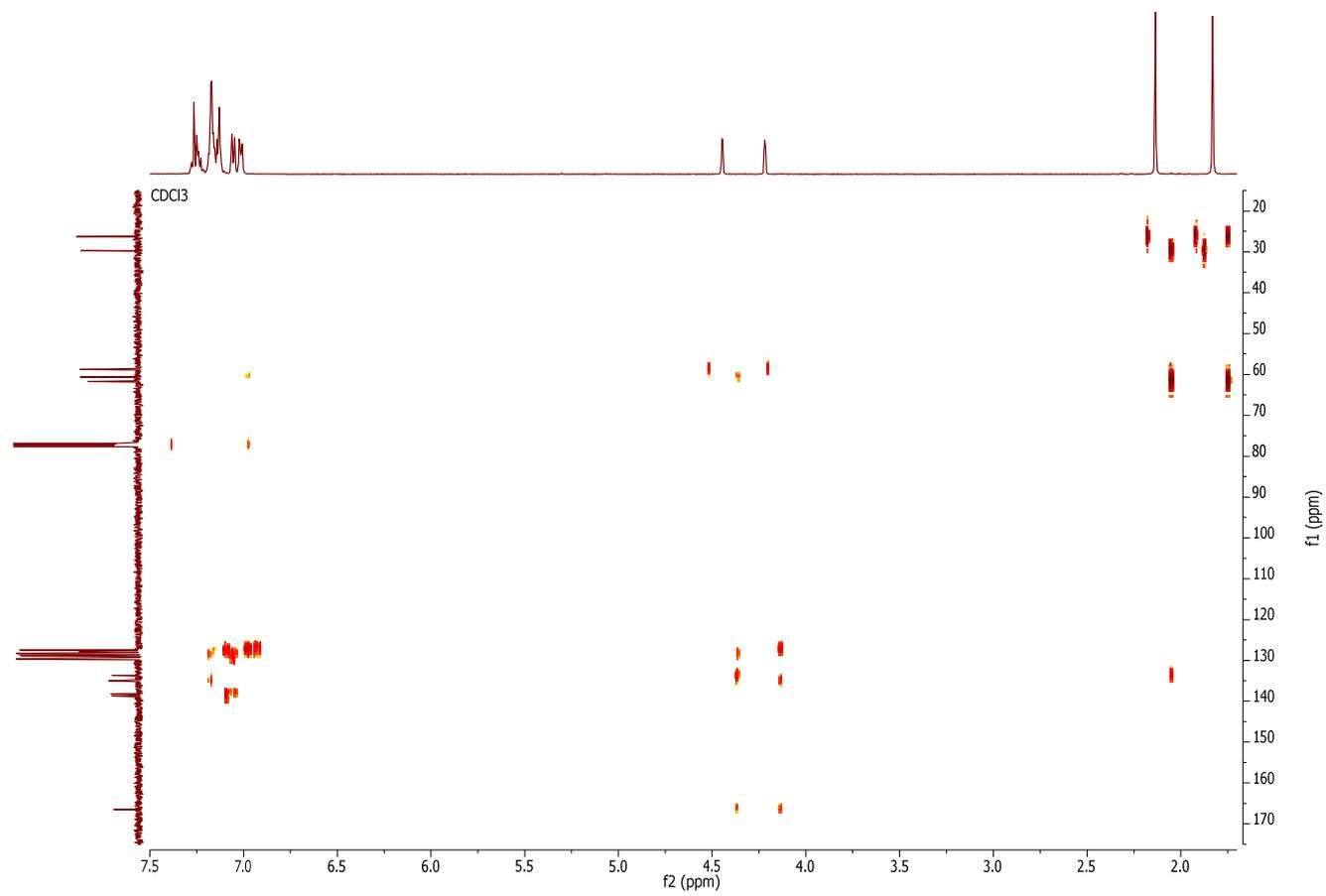
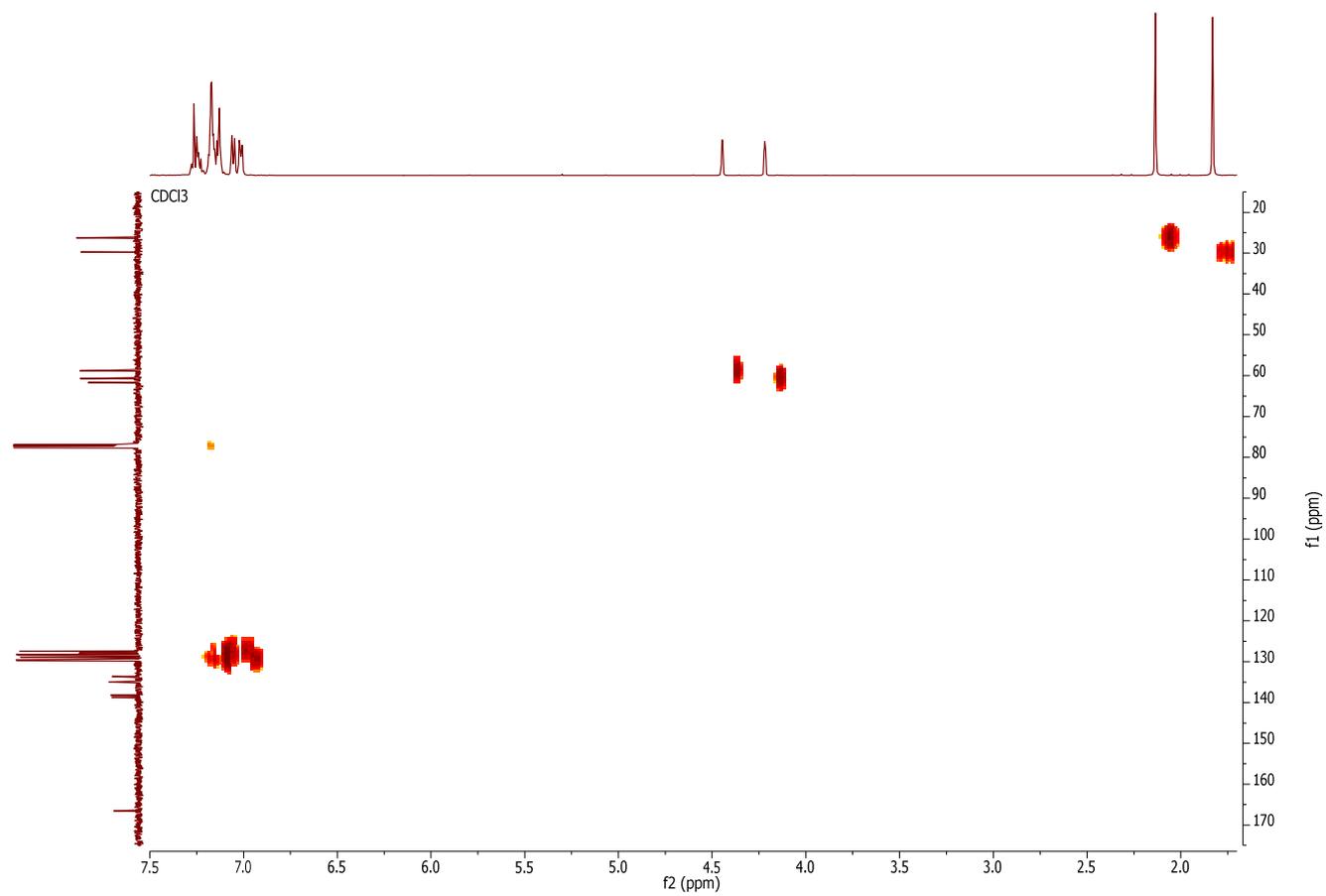


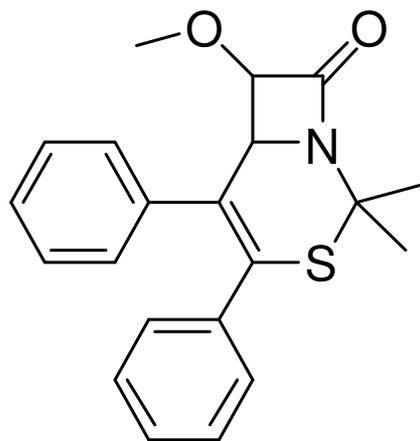
CDCl₃



CDCl₃







6b

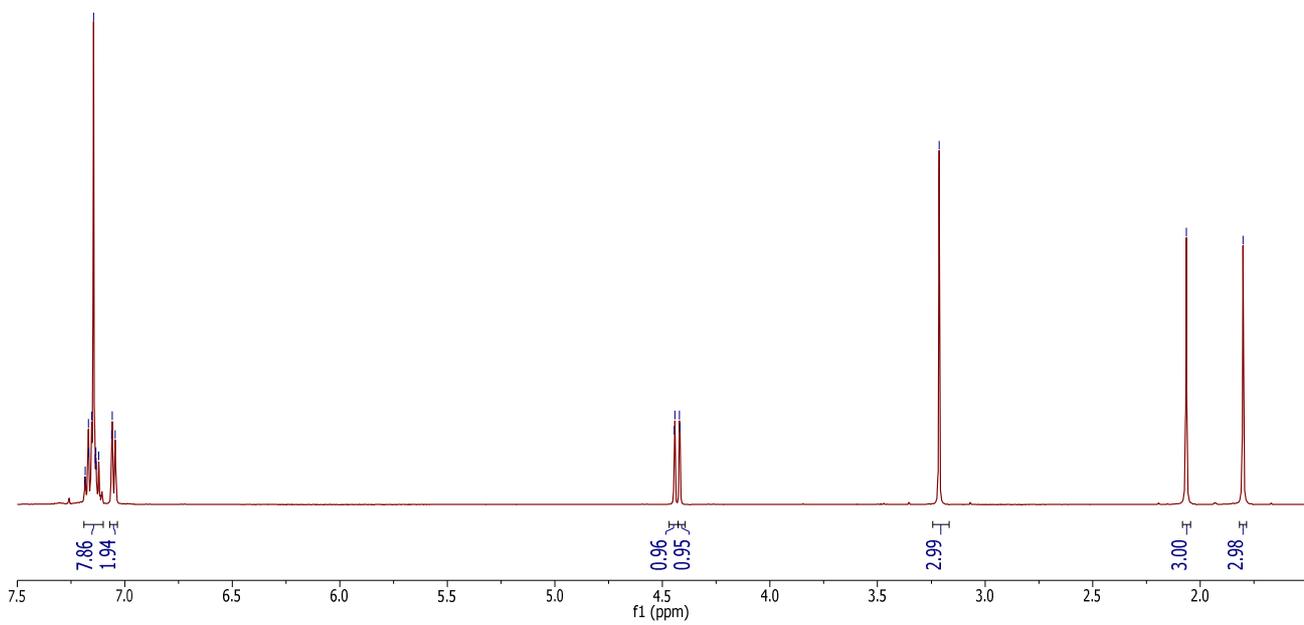
7.198
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7.17
7.15
7.15
7.14
7.14
7.13
7.12
7.06
7.06
7.04

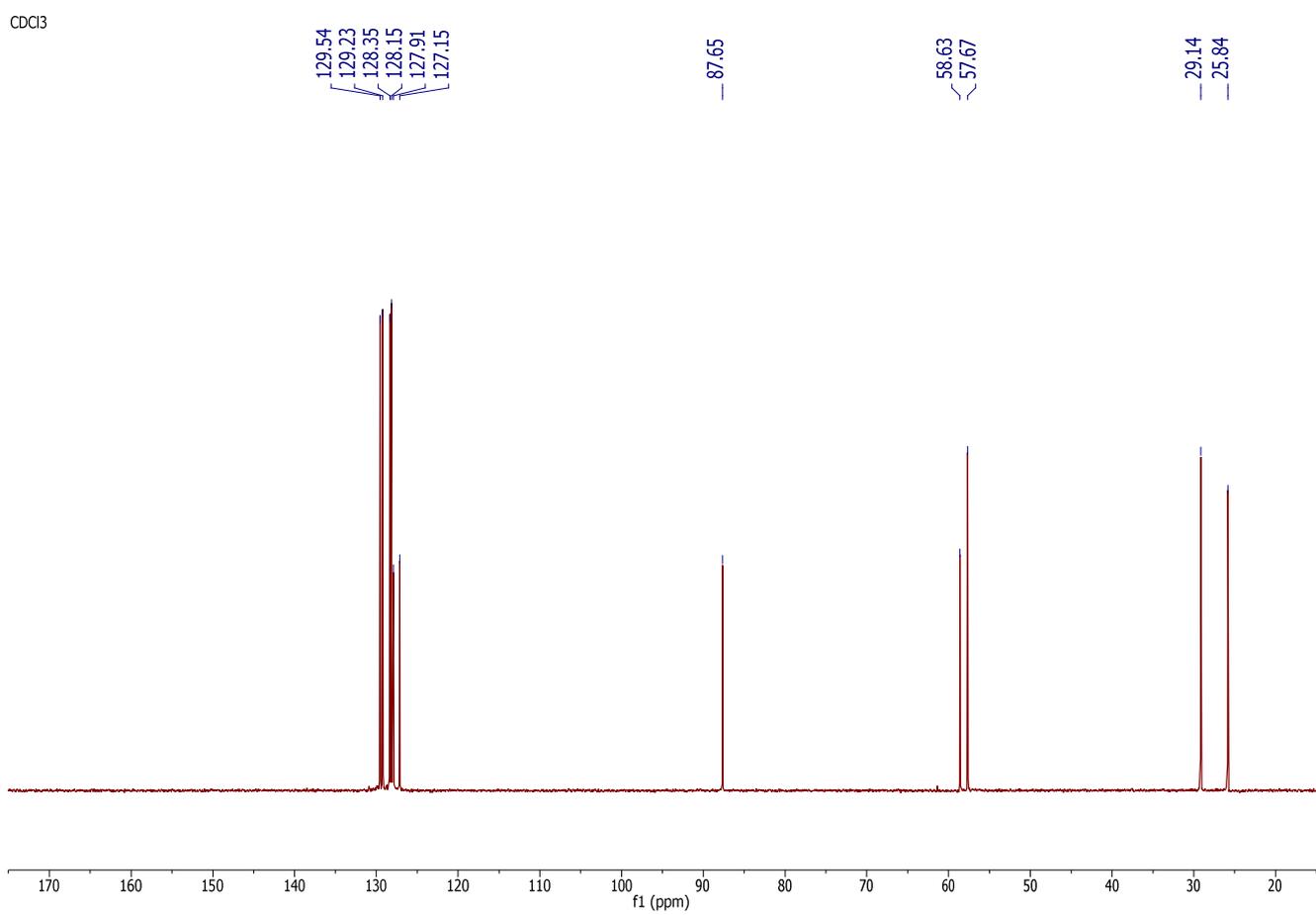
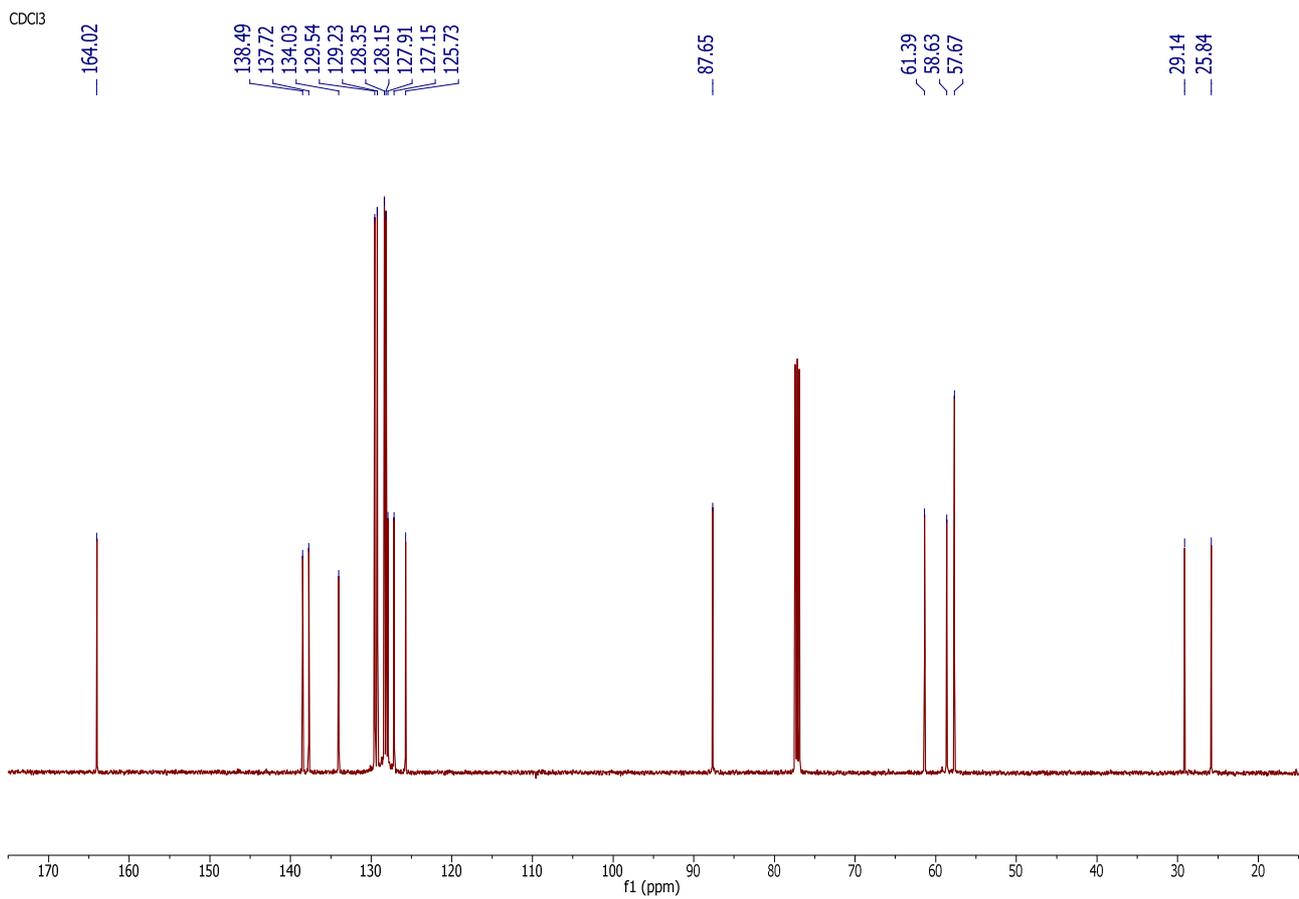
4.45
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4.42
4.42

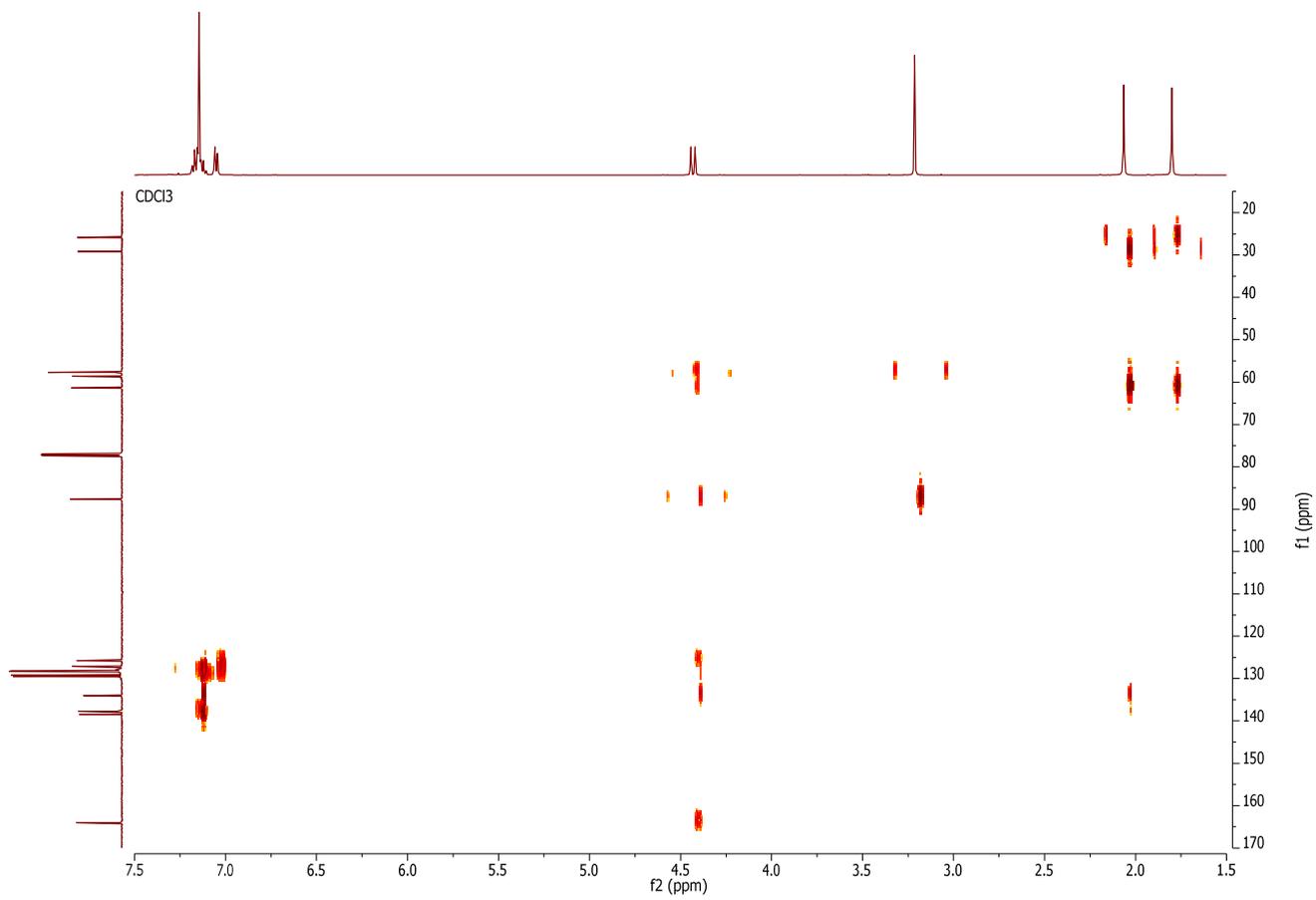
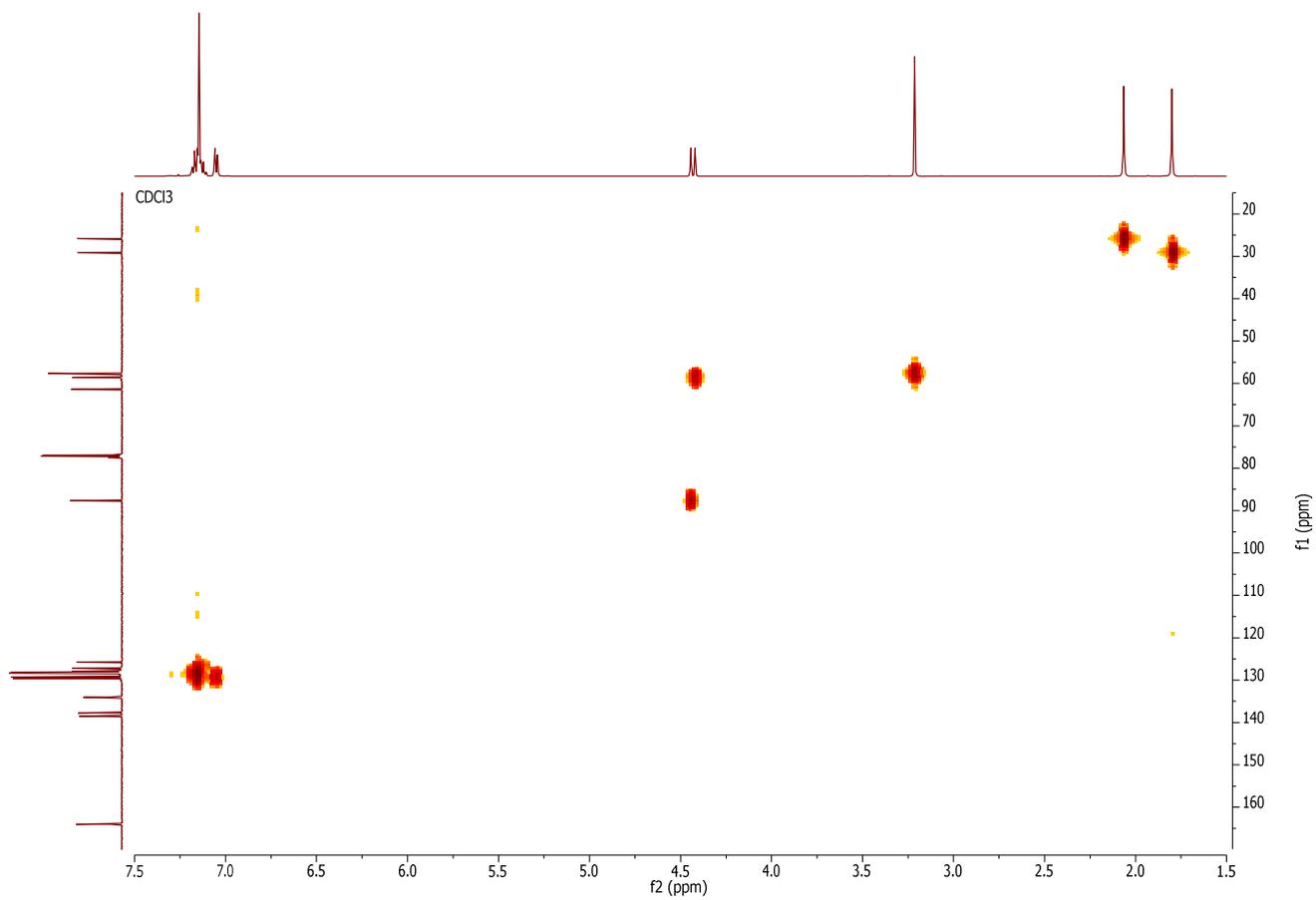
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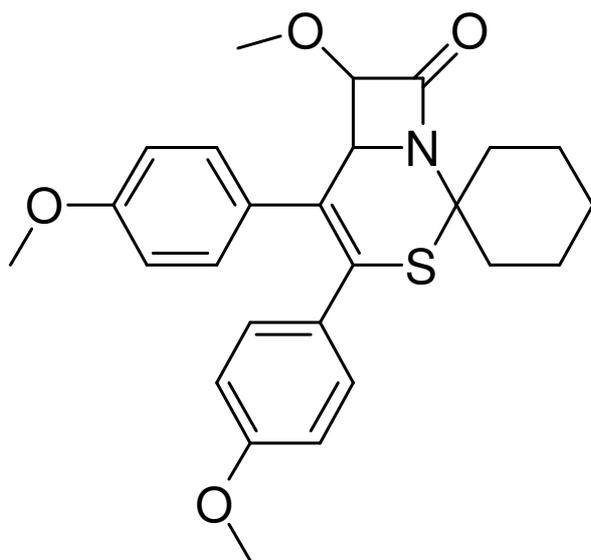
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1.80

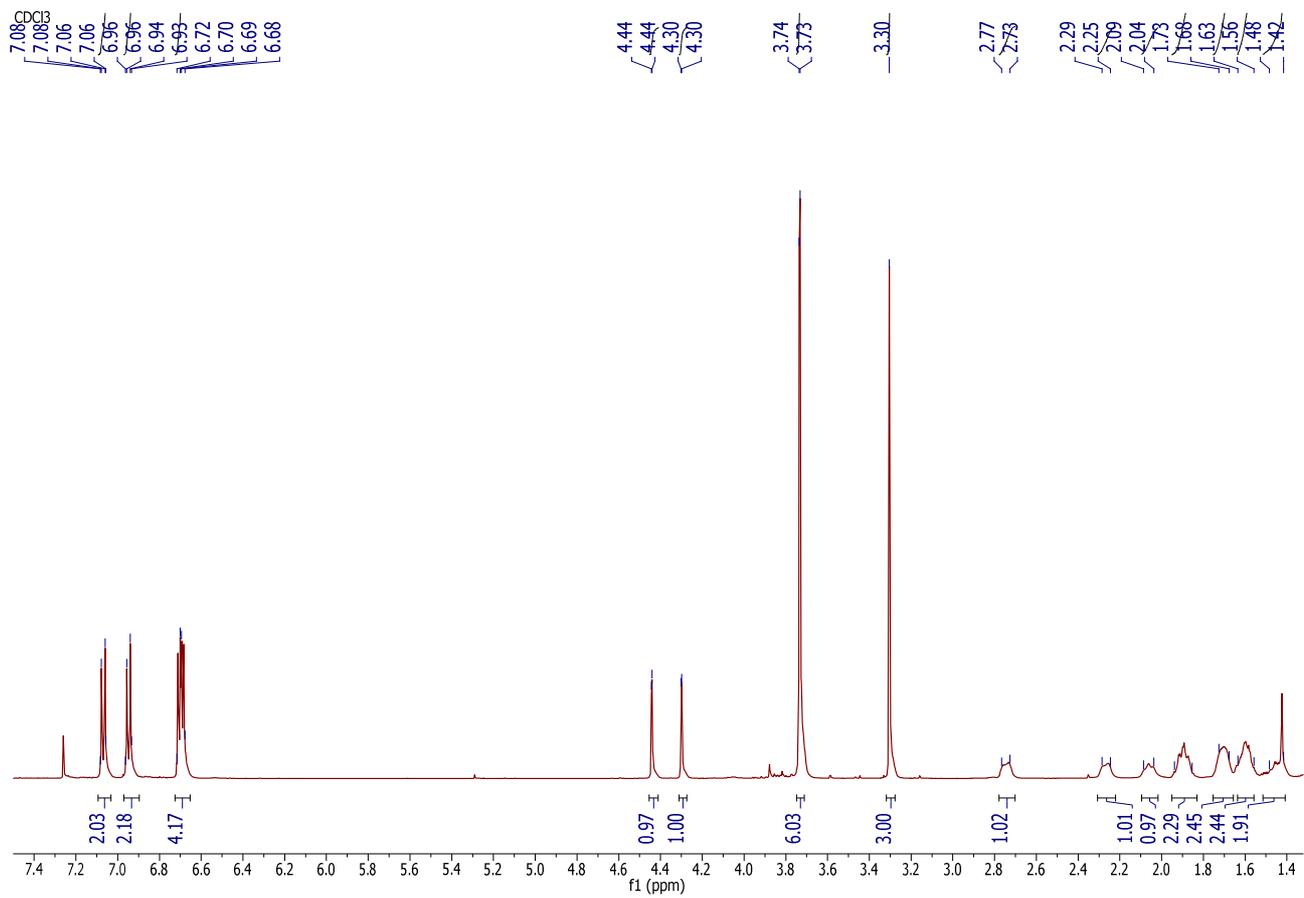


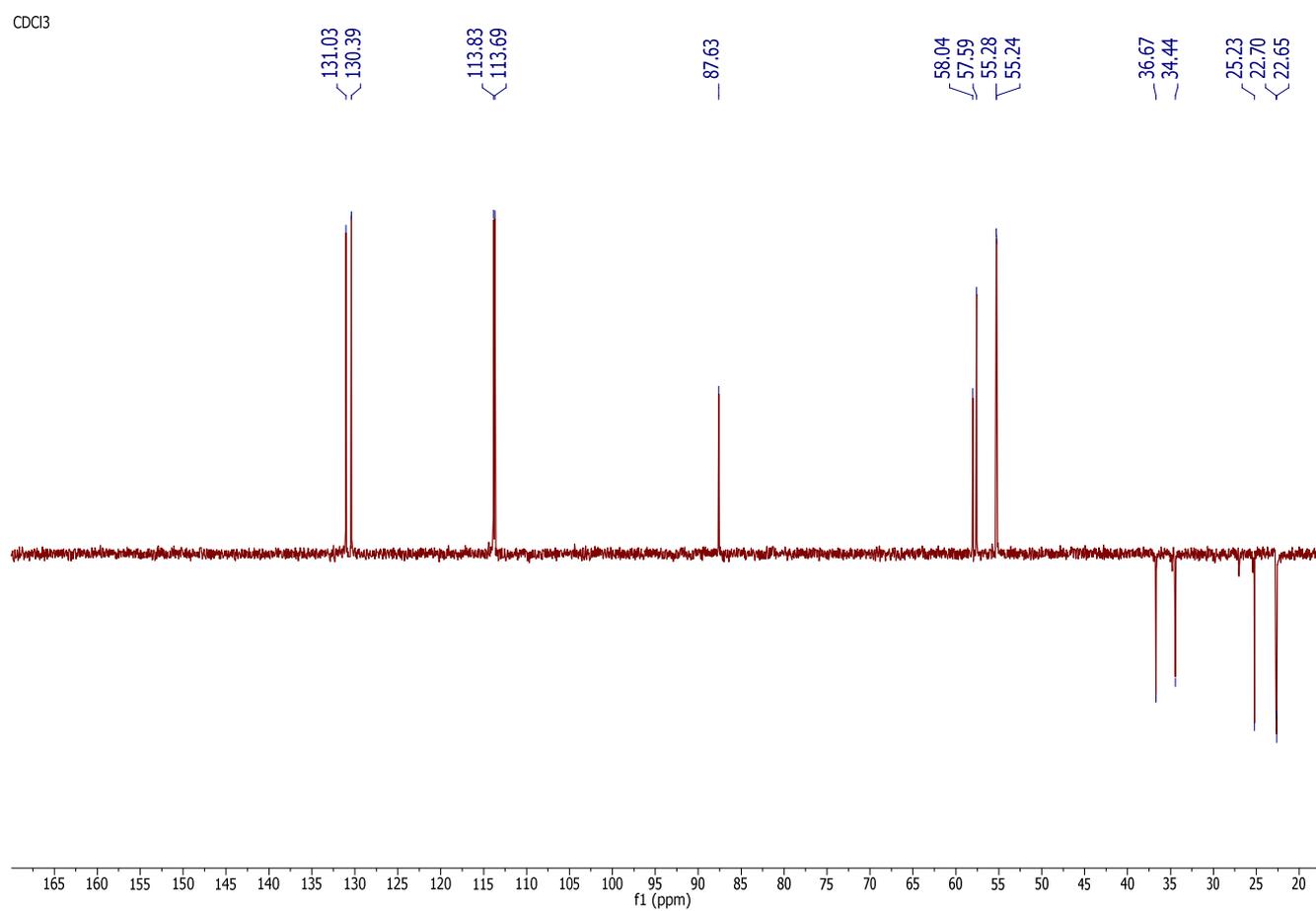
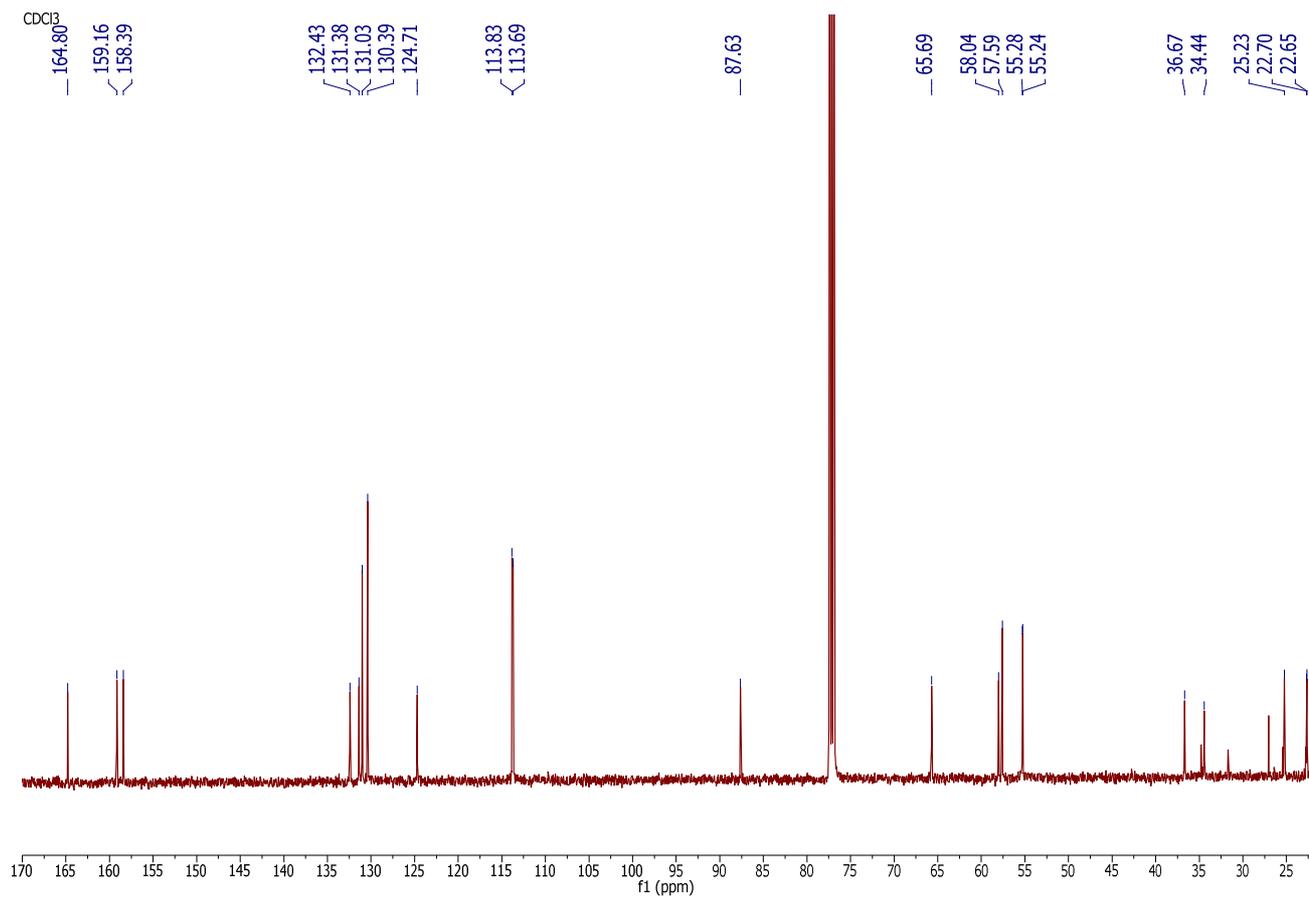


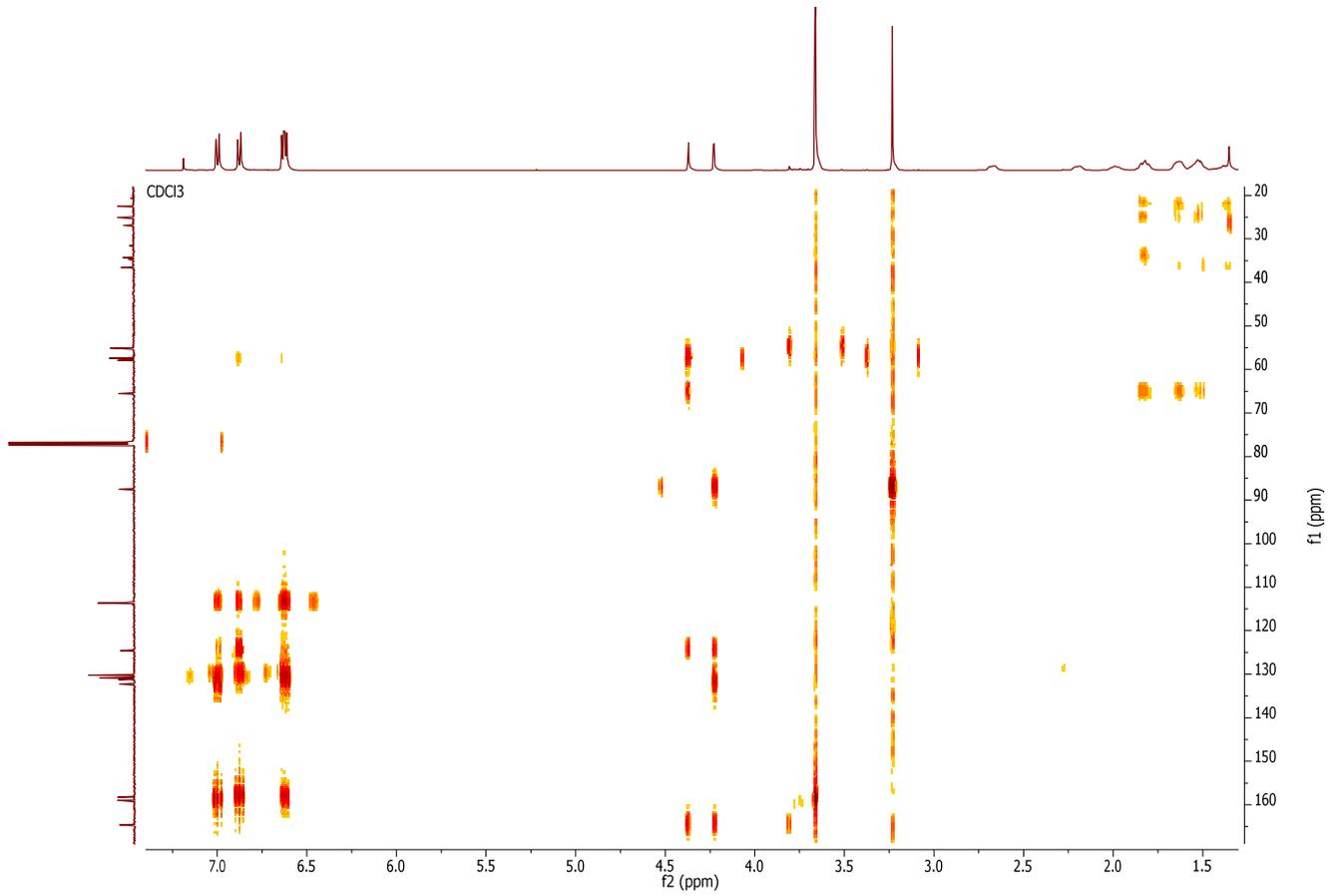
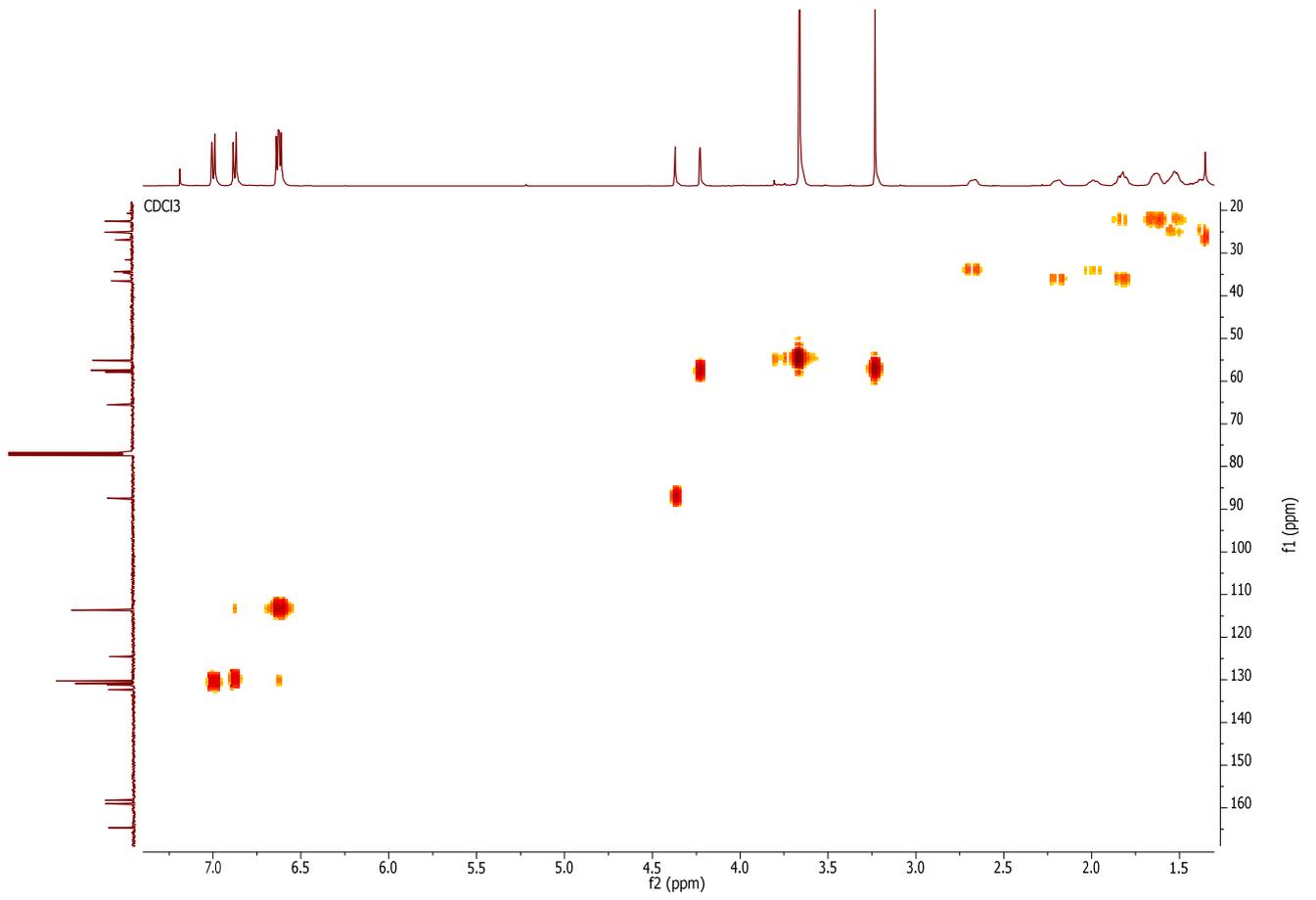


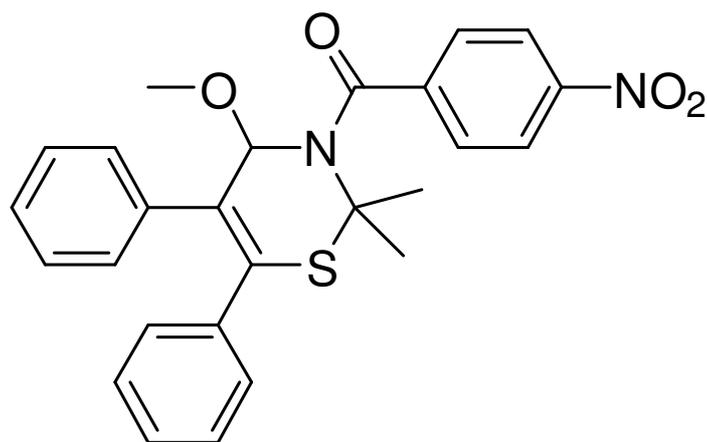


6c

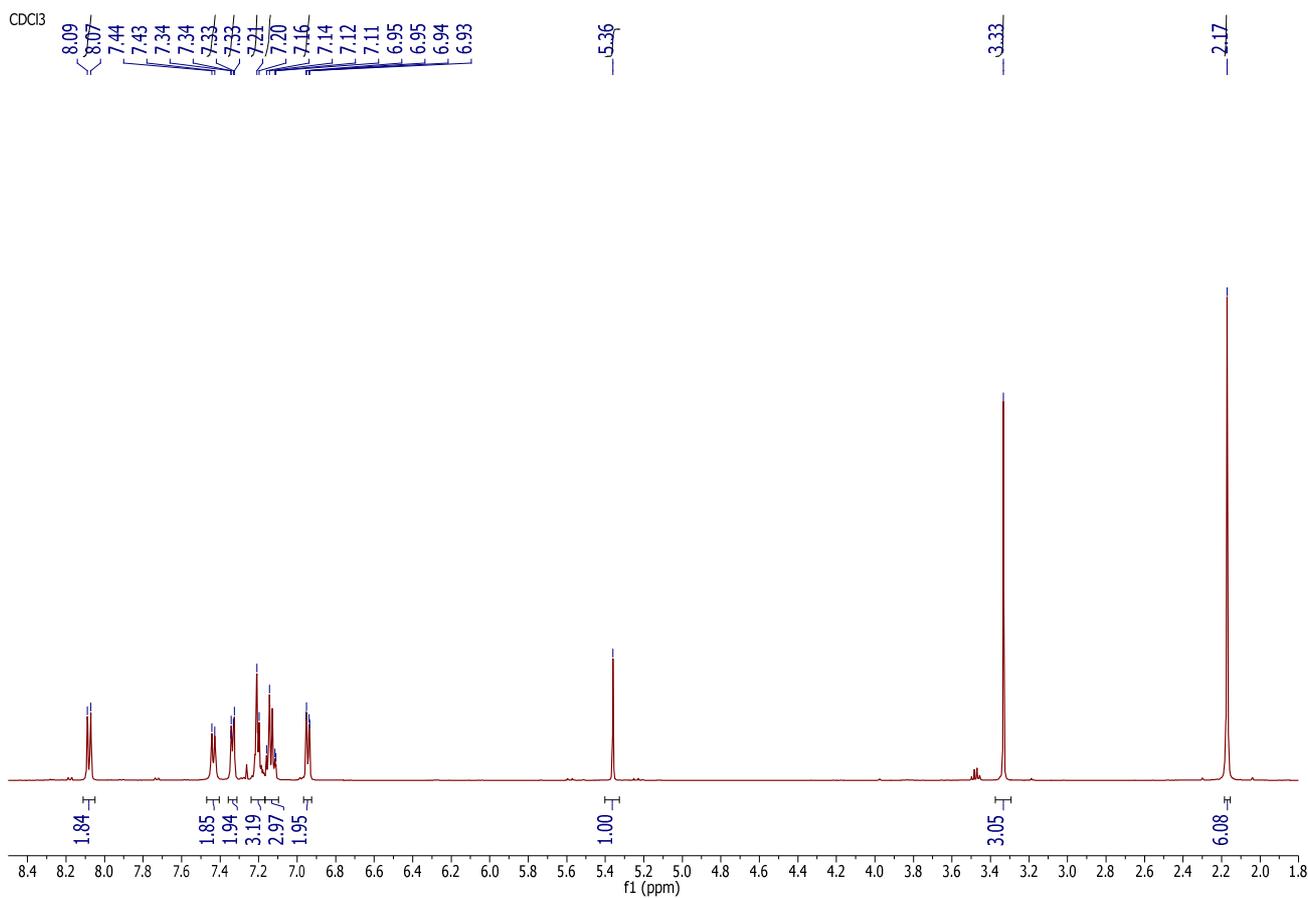


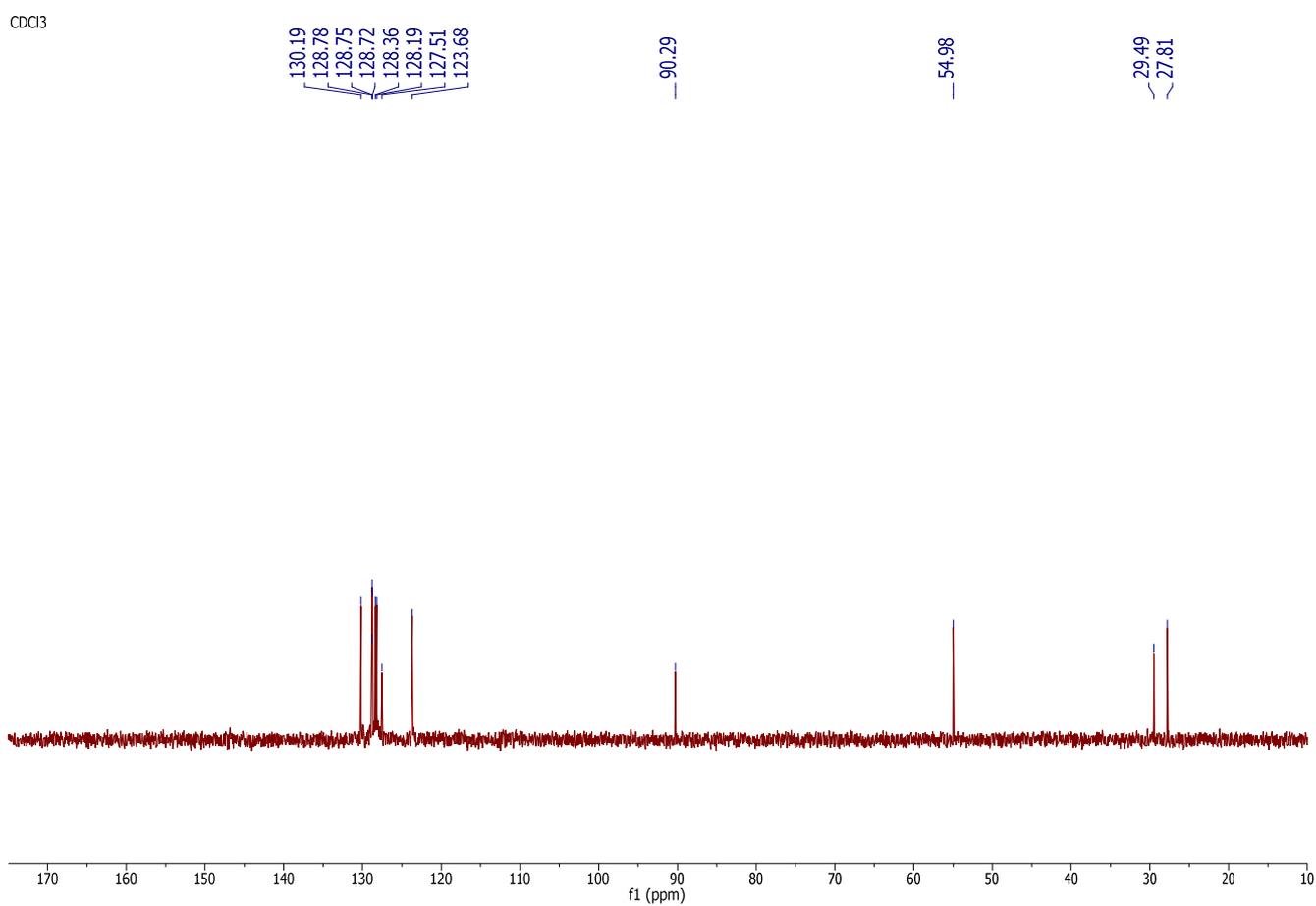
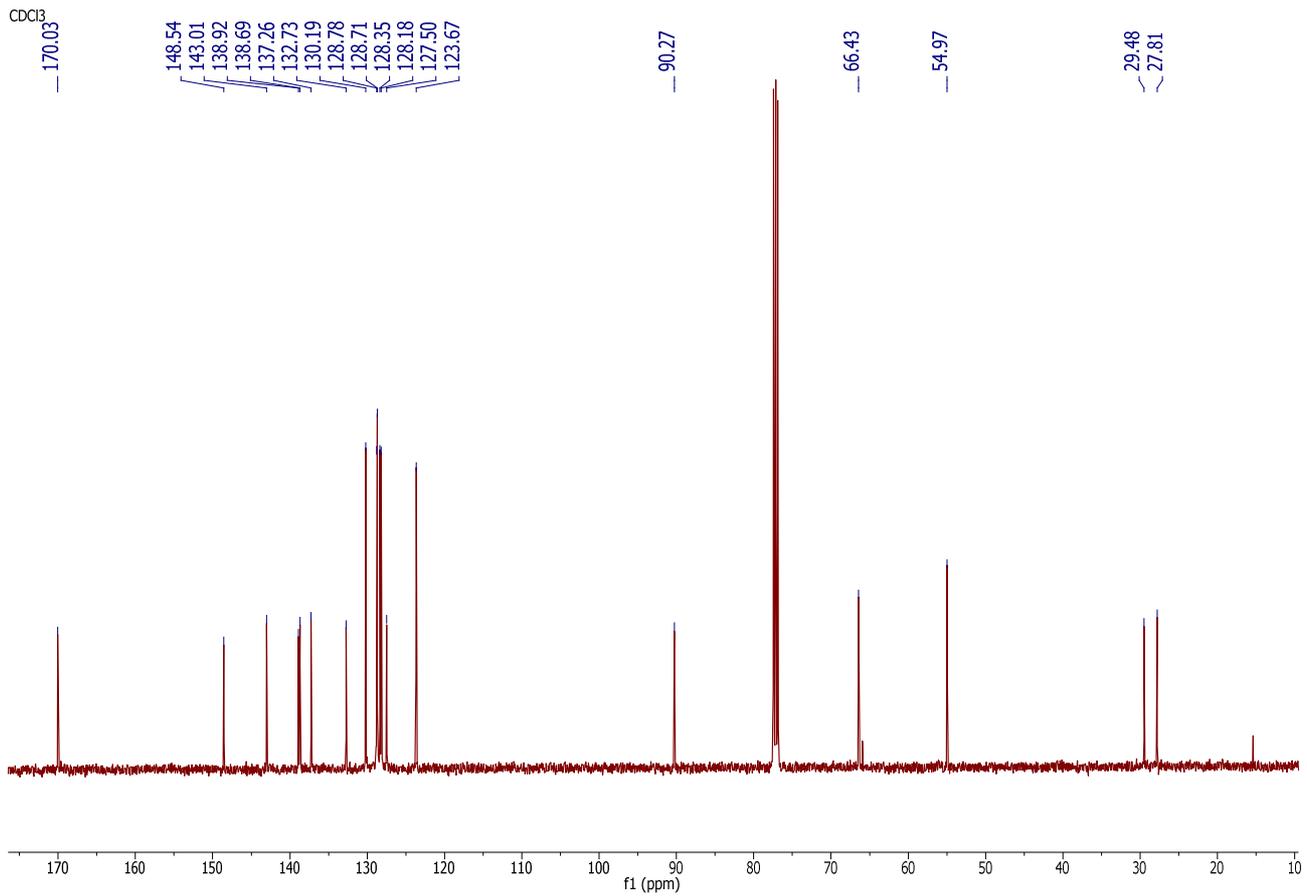


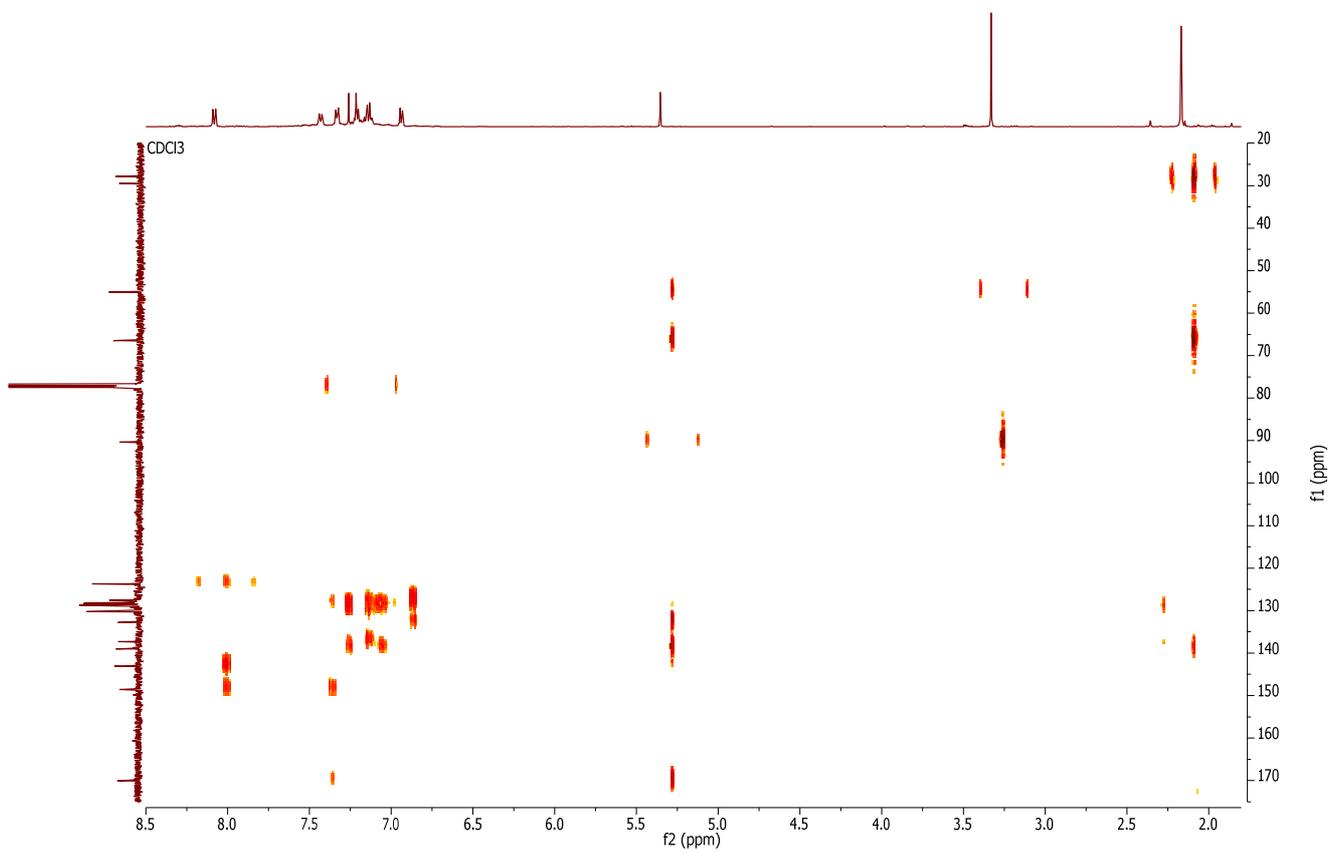
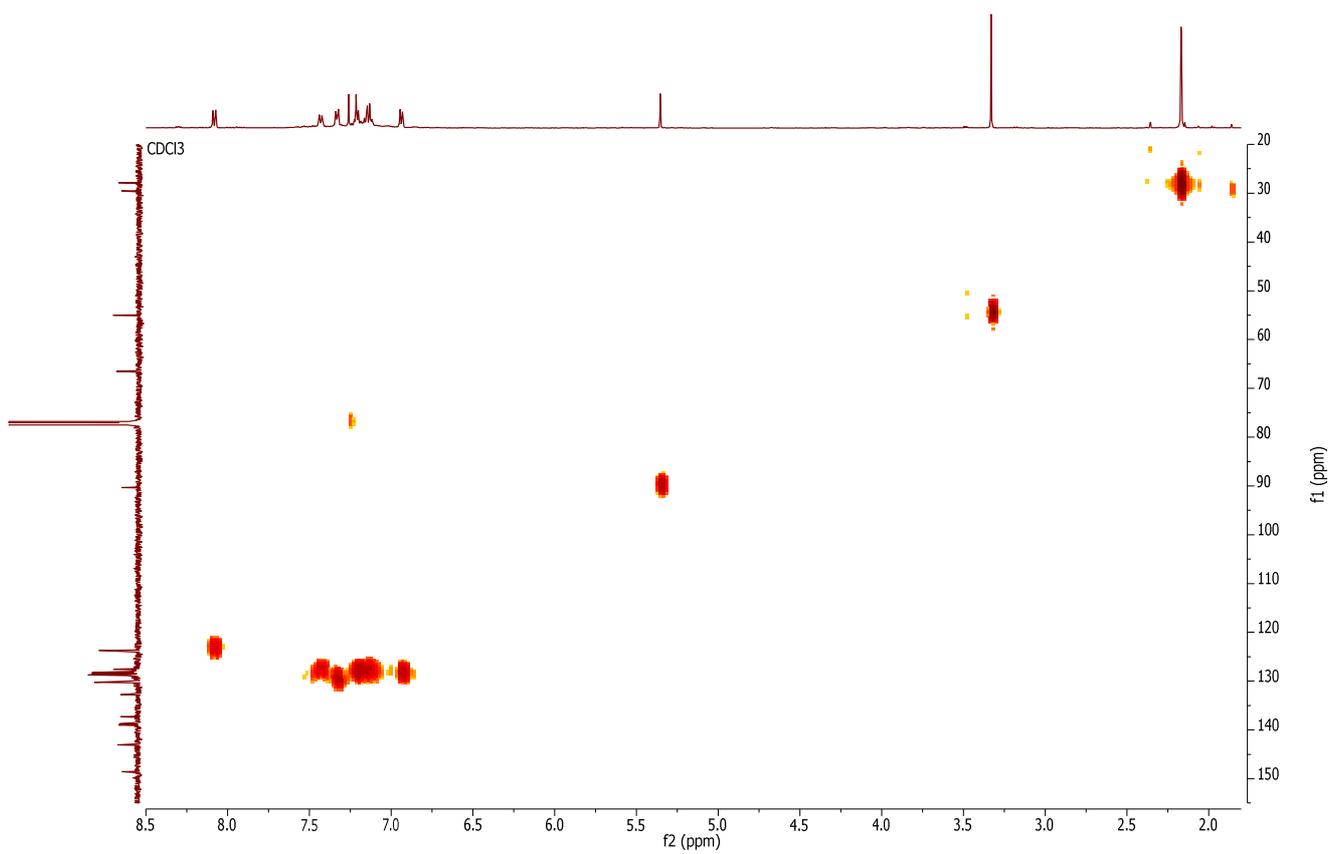


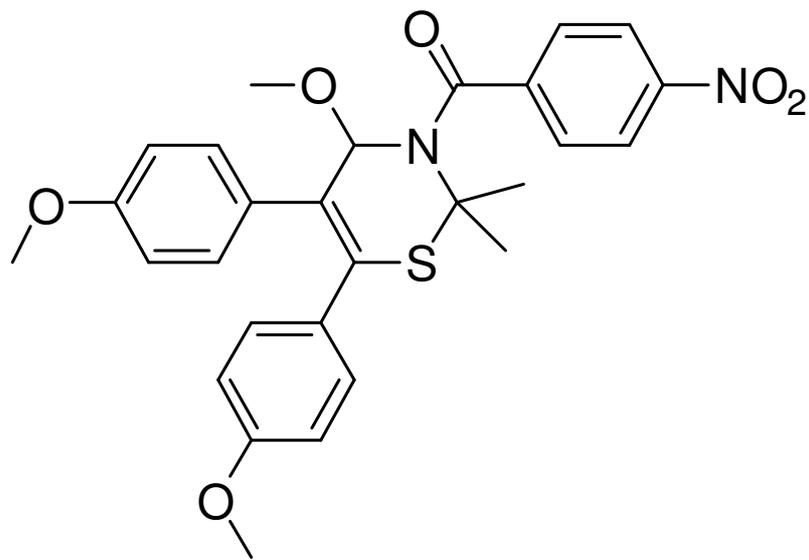


7a









7b

