

Electronic Supplementary Information

Copper-catalyzed decarboxylative and oxidative decarbonylative cross-coupling between cinnamic acids and aliphatic aldehydes

Zaigang Luo,^{*a} Xinxin Han,^a Yuyu Fang,^a Peng Liu,^b Chengtao Feng,^a Zhong Li^a and Xuemei Xu^{*a}

^a College of Chemical Engineering, Anhui University of Science and Technology, Huainan, Anhui 232001, P. R. China.

^b Guang Zhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou 510530, China.

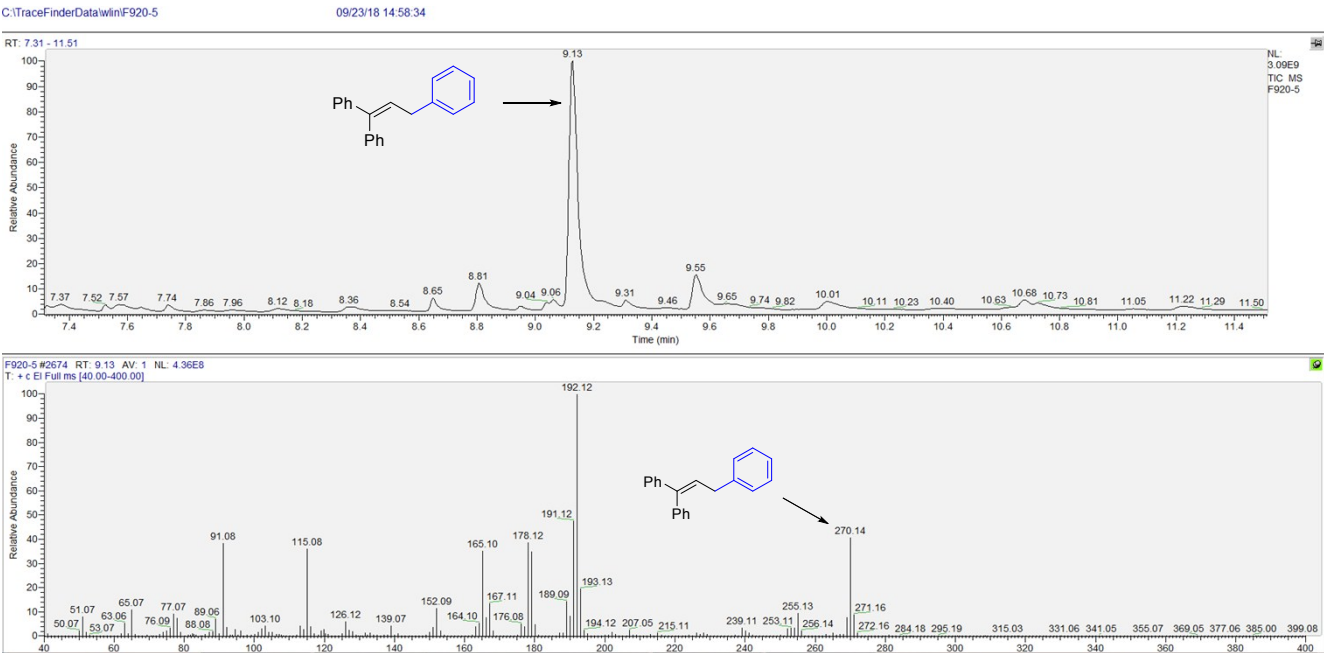
E-mail: luozi139@163.com

E-mail: littlekitty@126.com

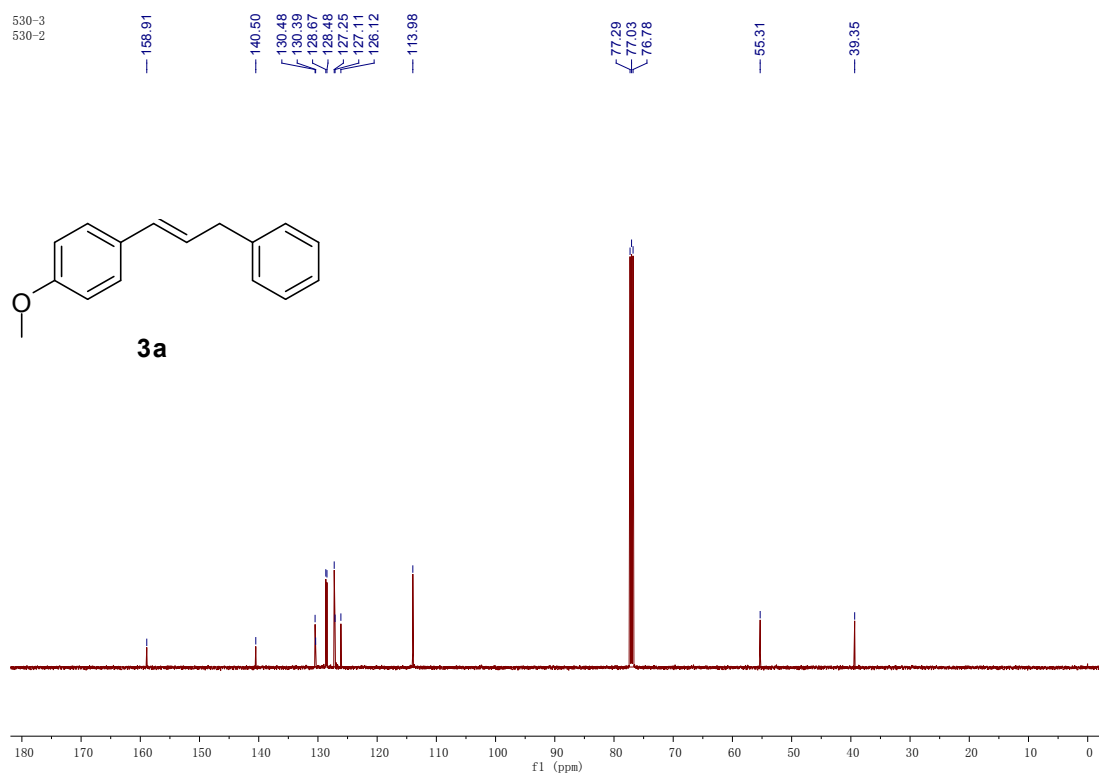
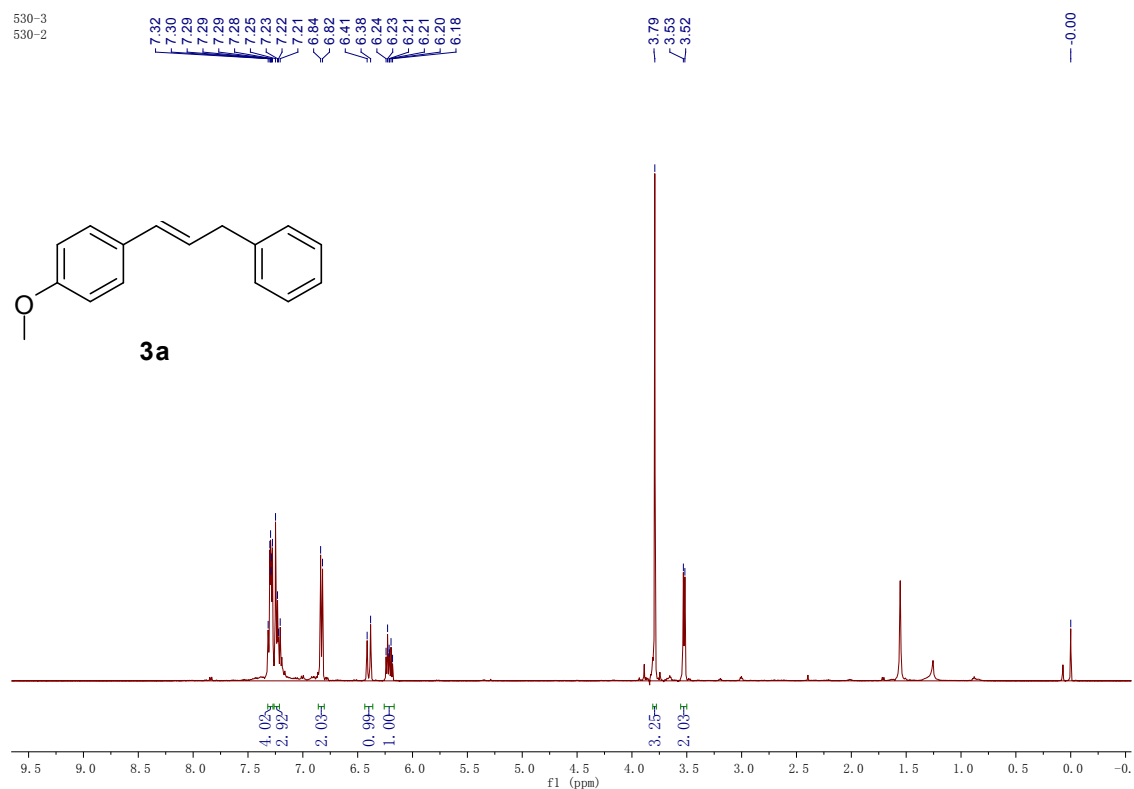
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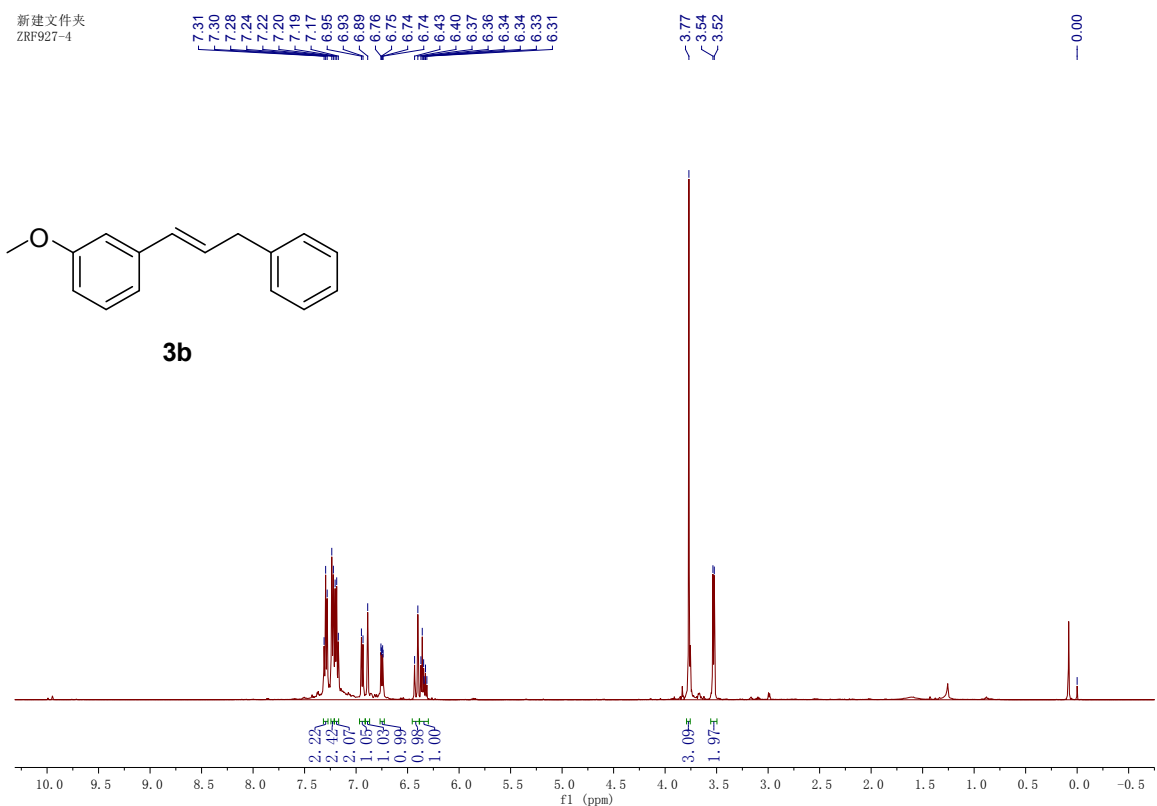
GC-Mass spectra of 8



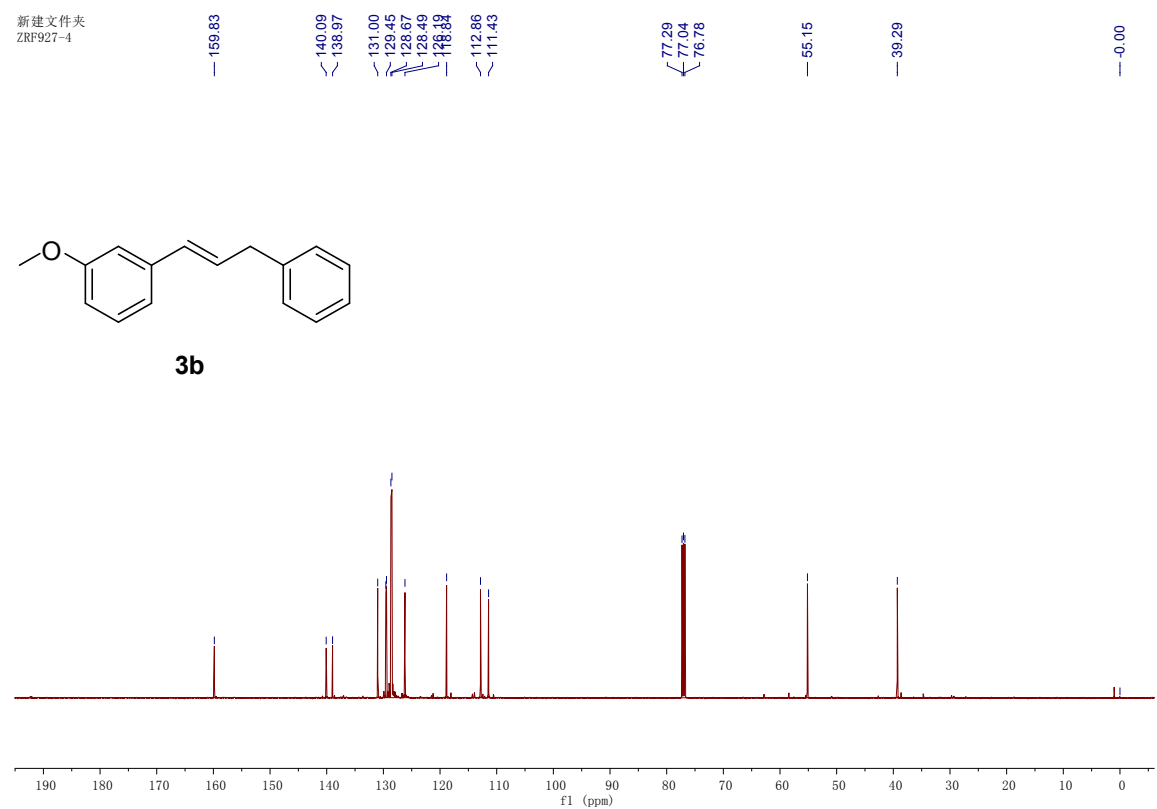
Copies of ^1H NMR and ^{13}C NMR of alkyl-substituted *E*-alkenes



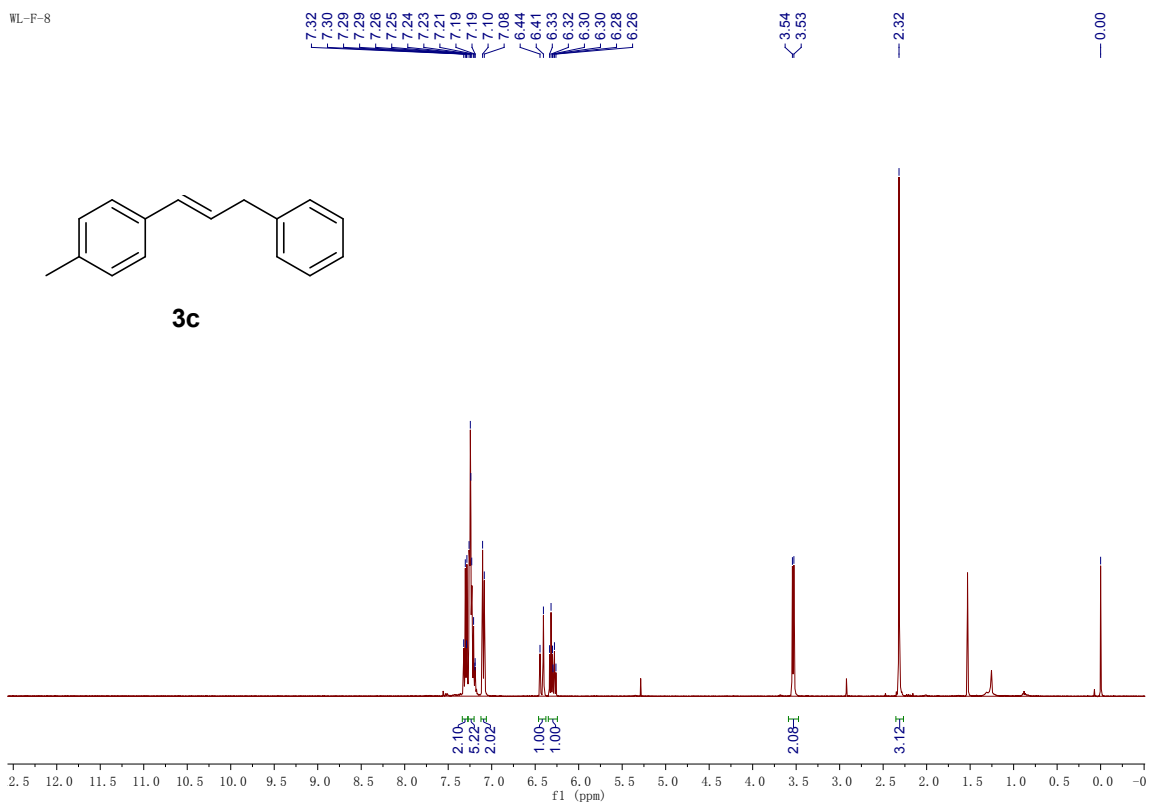
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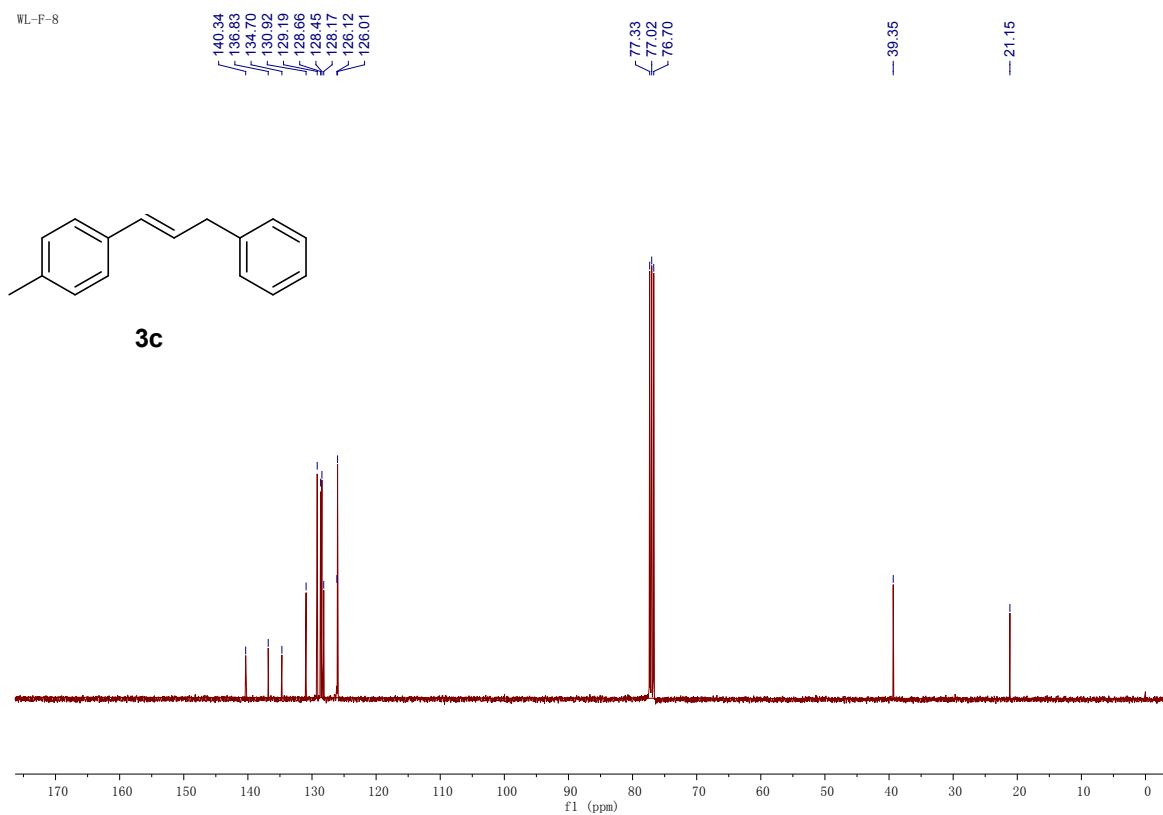
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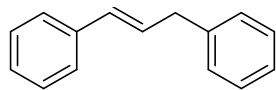
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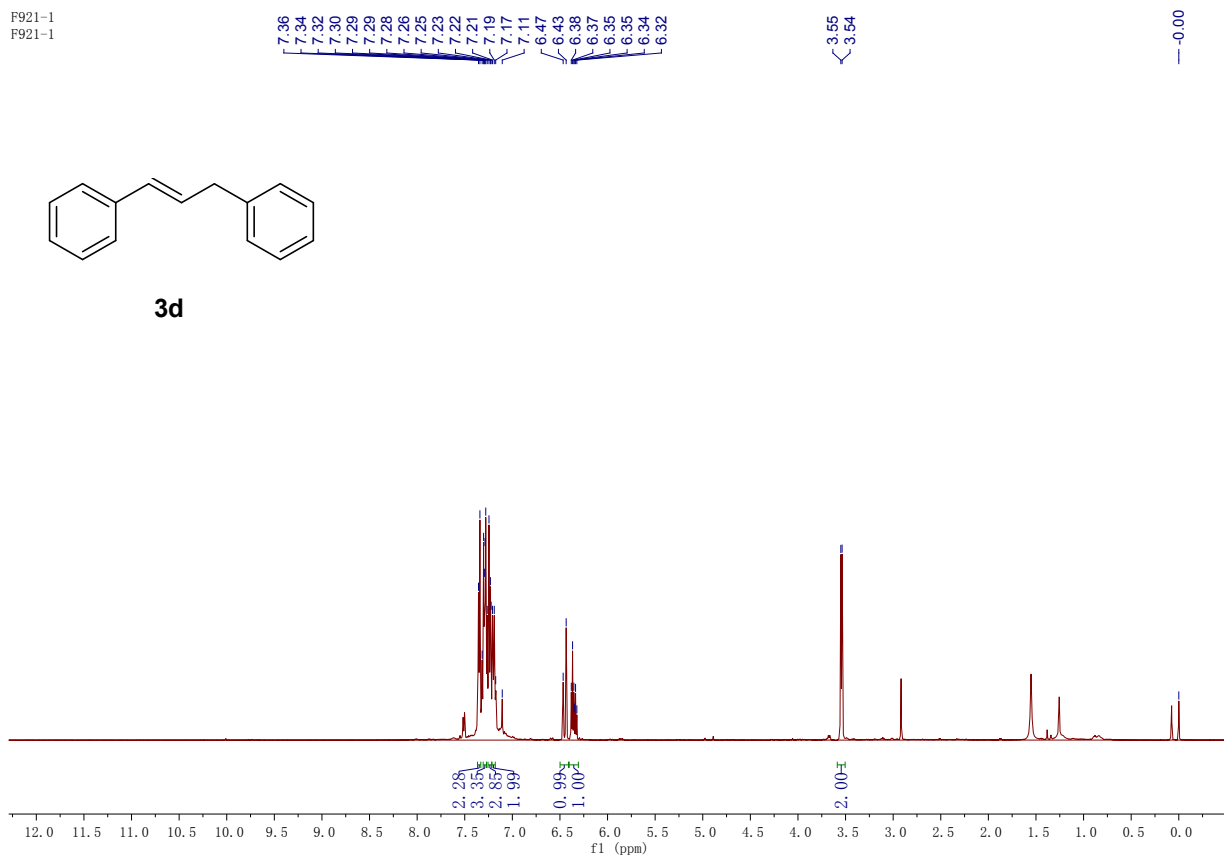
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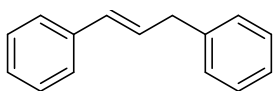
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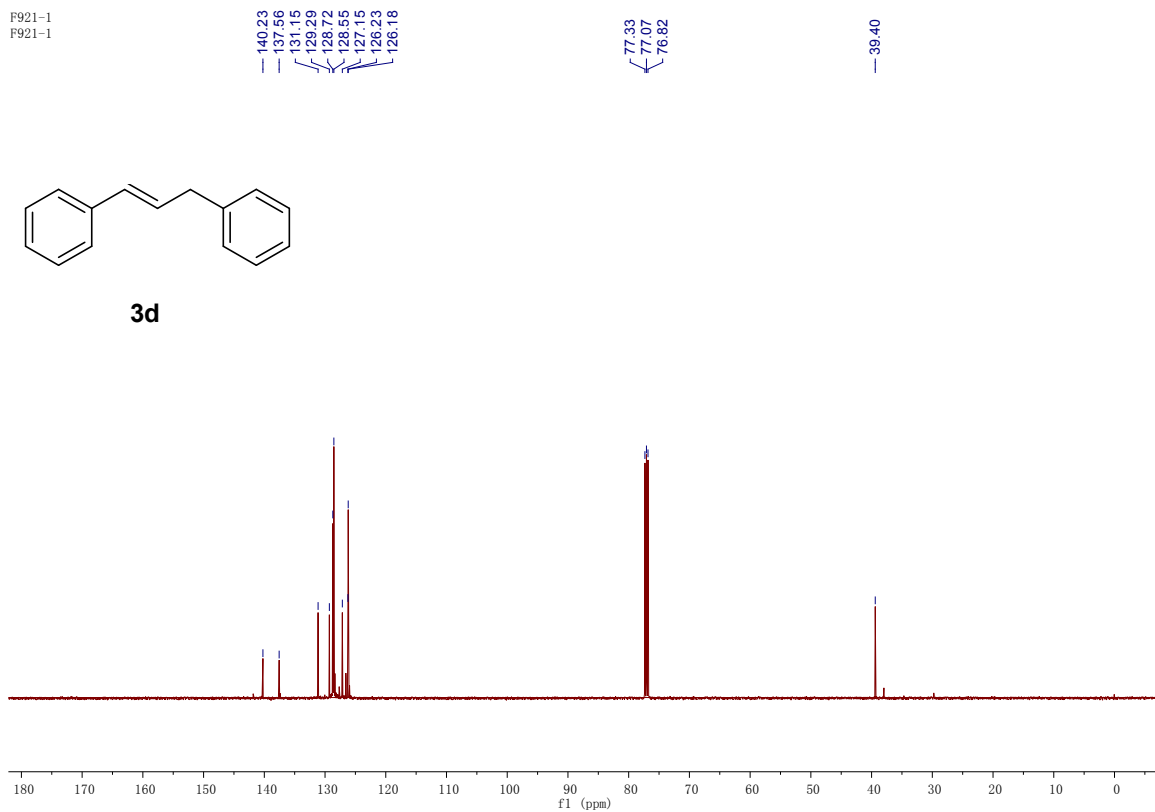
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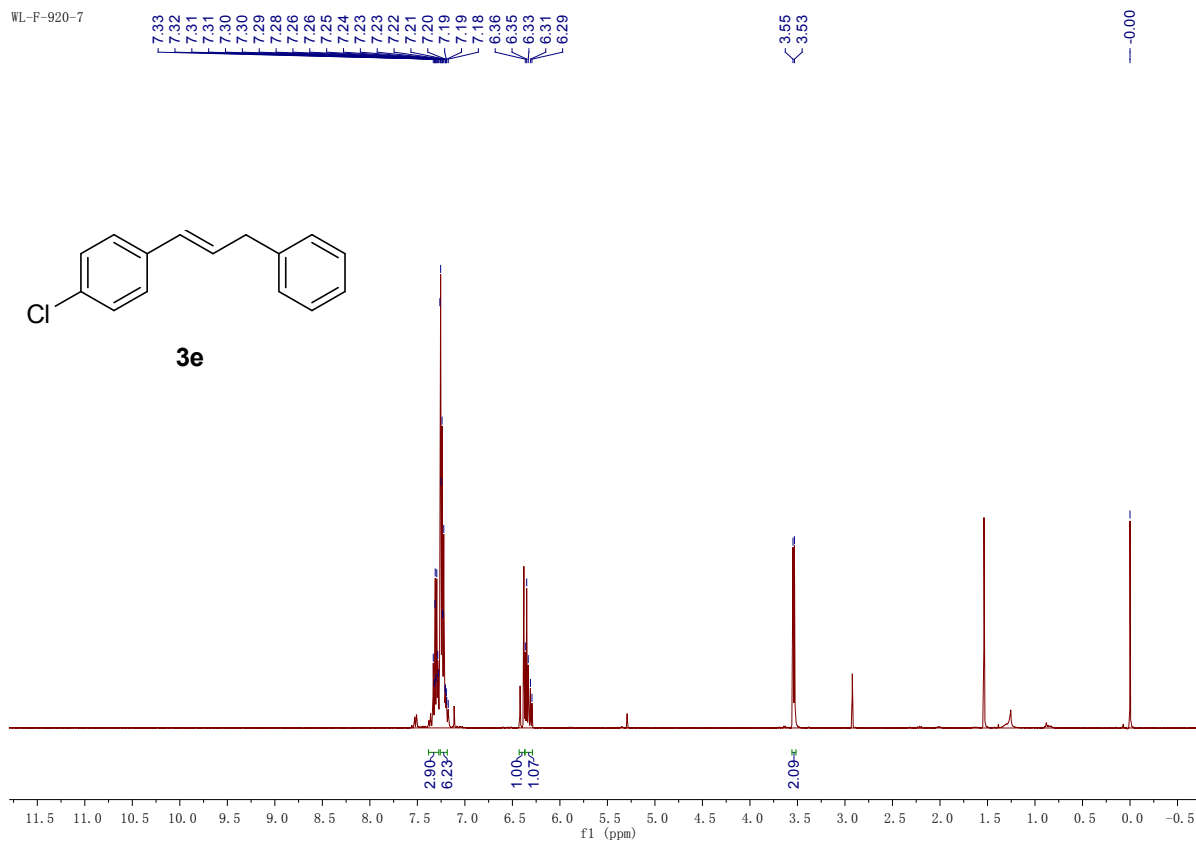
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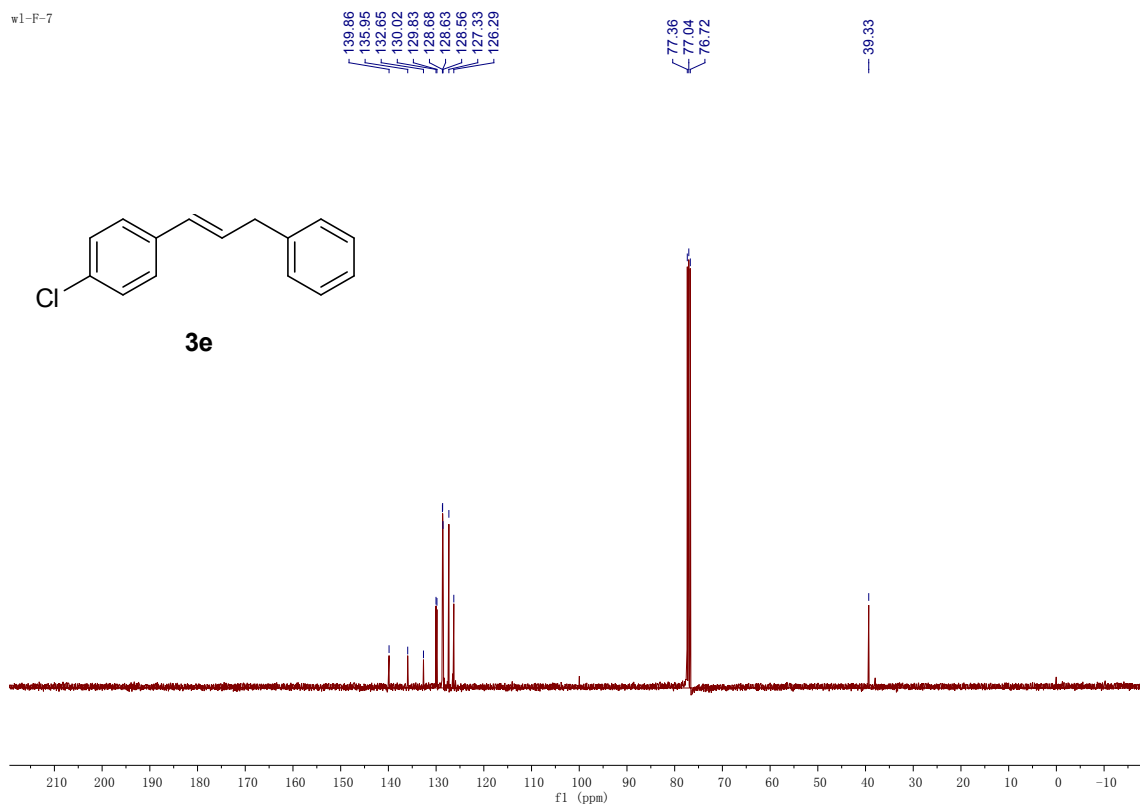
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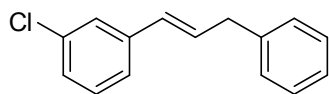
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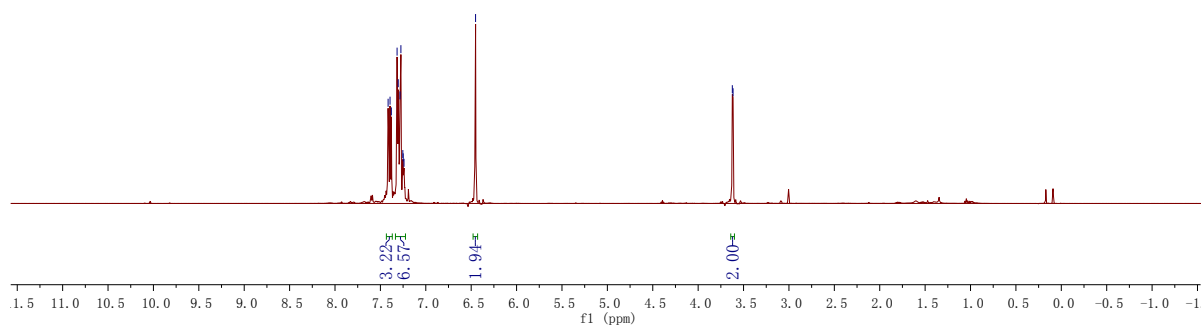
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ZRF1102-1

7.42
7.39
7.38
7.32
7.30
7.28
7.27
7.25
7.24
6.45

3.62
3.62



3f

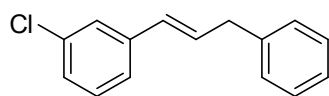


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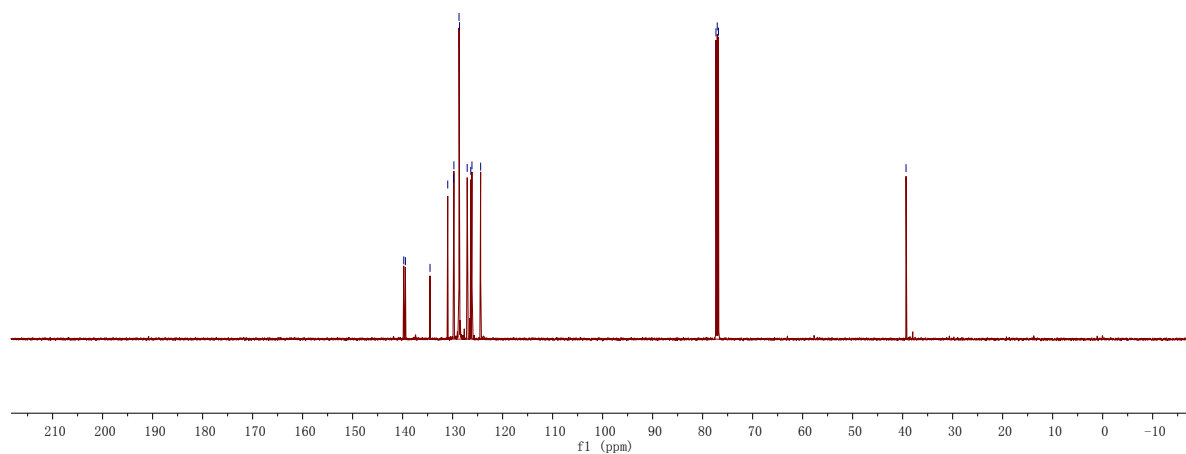
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129.75
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128.62
127.09
126.37
126.14
124.40

77.34
77.08
76.83

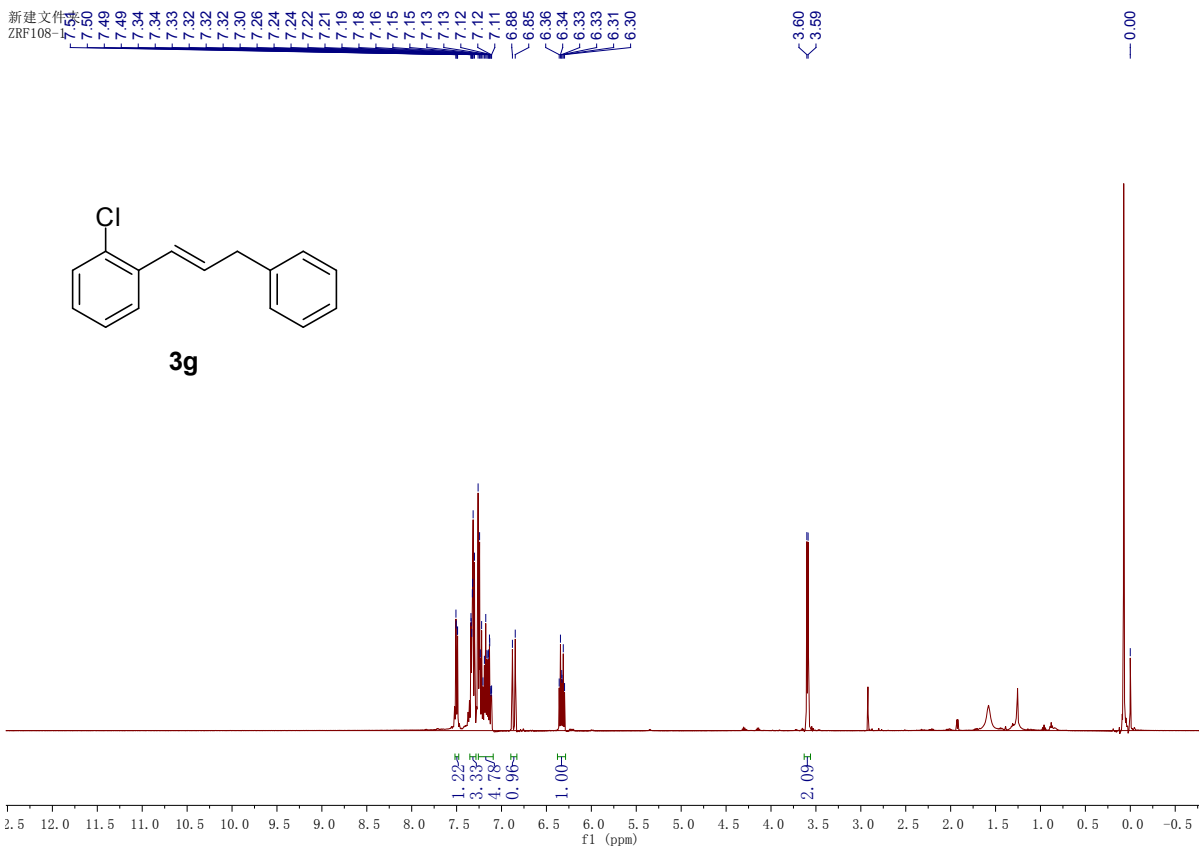
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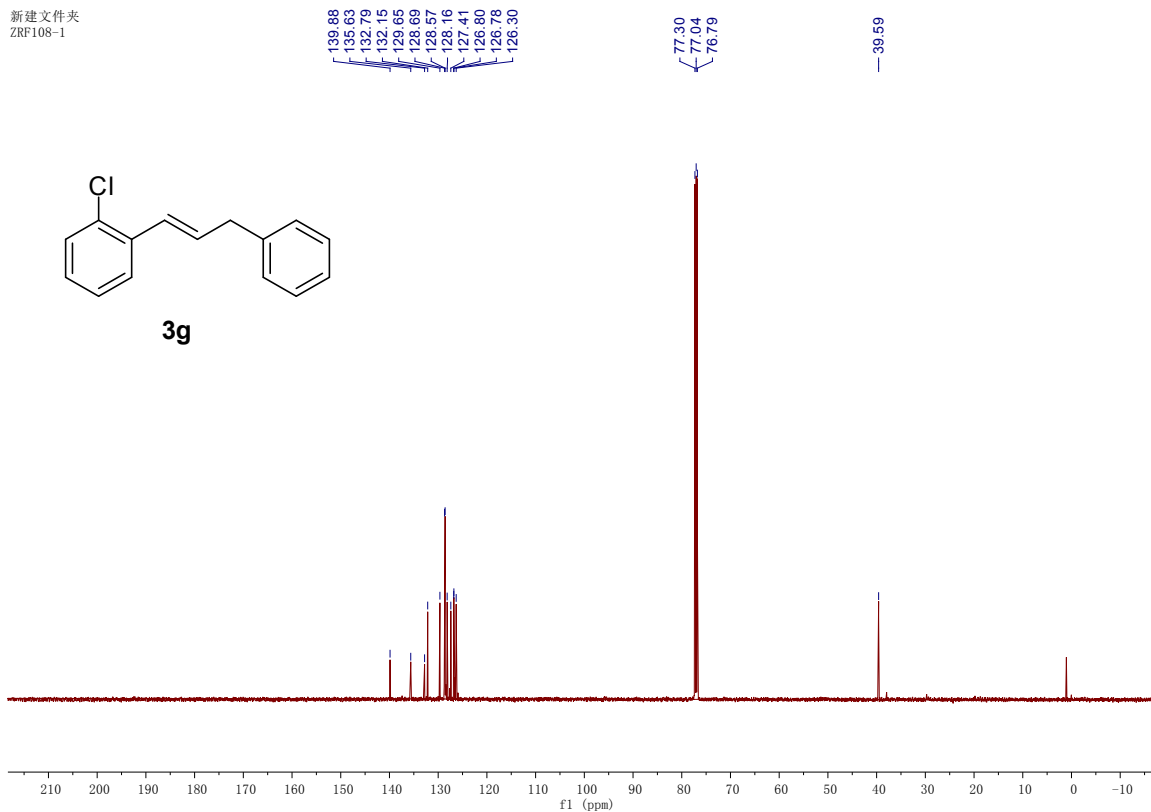
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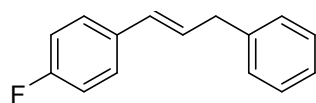


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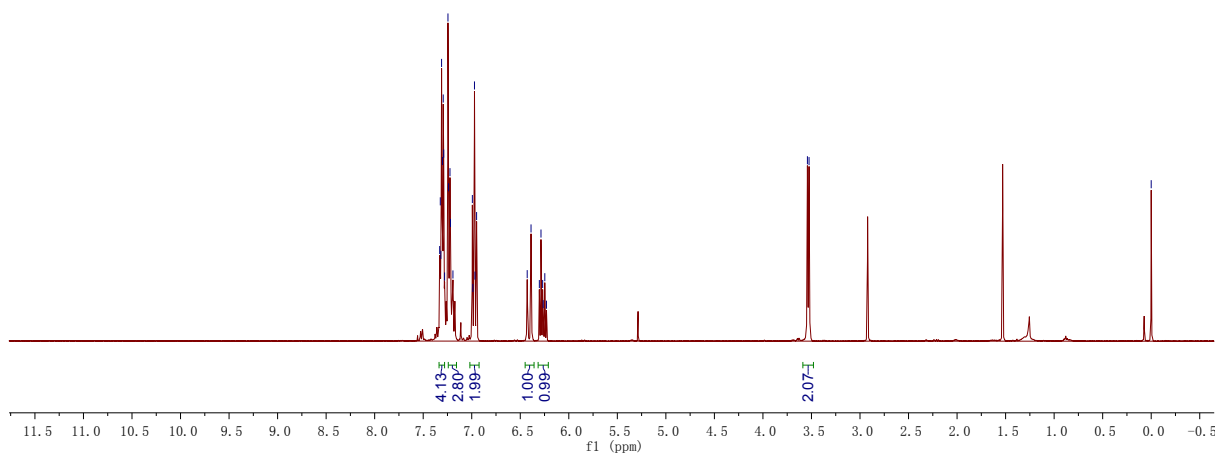
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7.32
7.32
7.31
7.30
7.29
7.28
7.28
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7.24
7.22
7.22
7.19
6.99
6.99
6.97
6.97
6.95
6.43
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6.30
6.29
6.27
6.26
6.25
6.23

3.54
3.52

0.00



3h

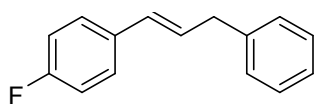


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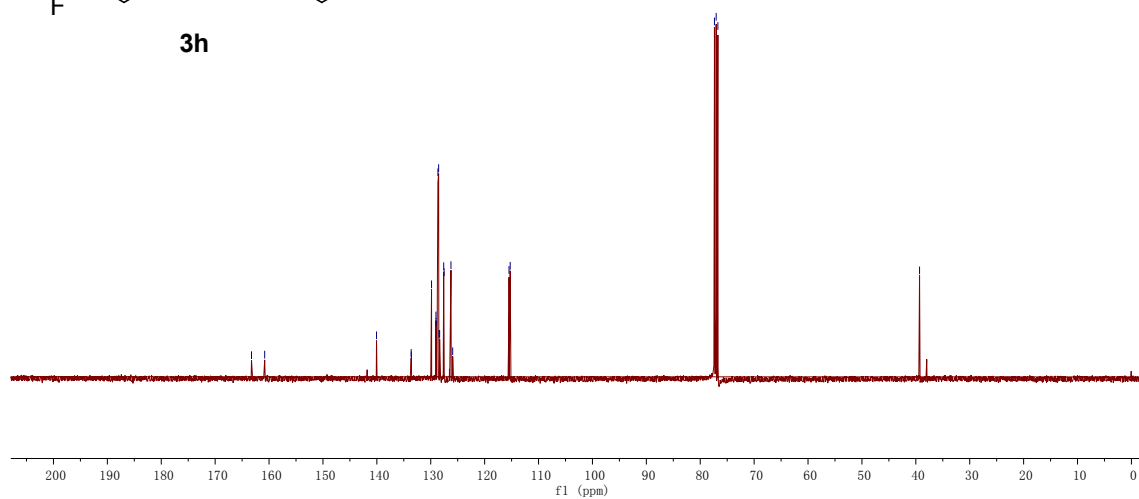
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140.06
129.85
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128.54
127.60
127.52
118.48
115.26

77.36
77.04
76.73

39.31



3h

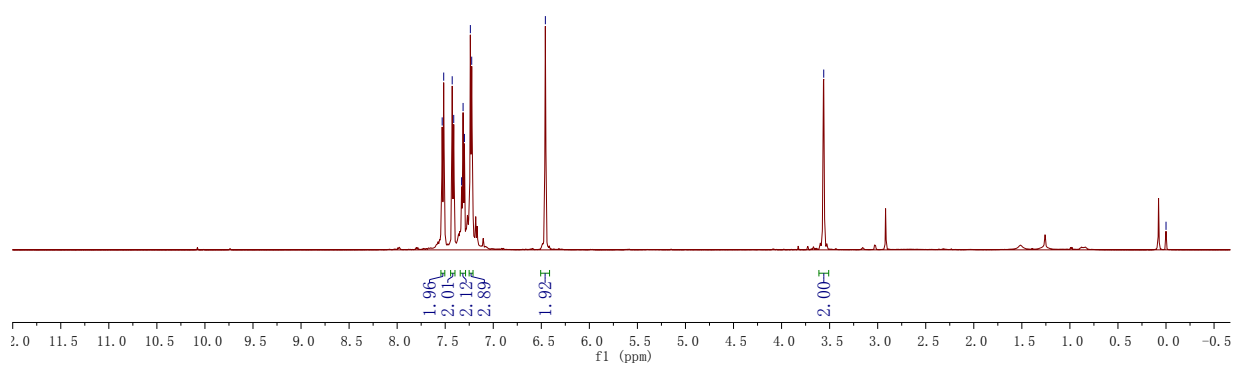
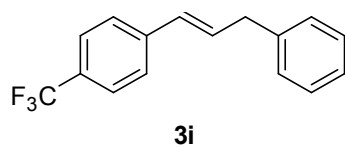


F420-2
F420-2

7.53
7.52
7.43
7.41
7.33
7.31
7.30
7.24
7.22
6.46

3.56

-0.00

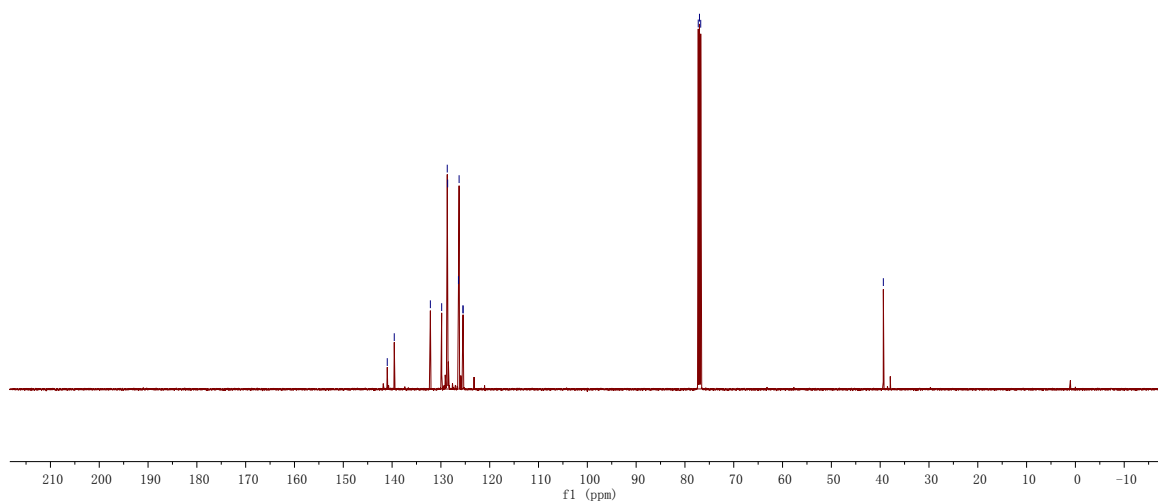
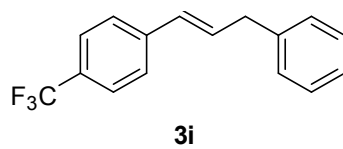


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F420-2

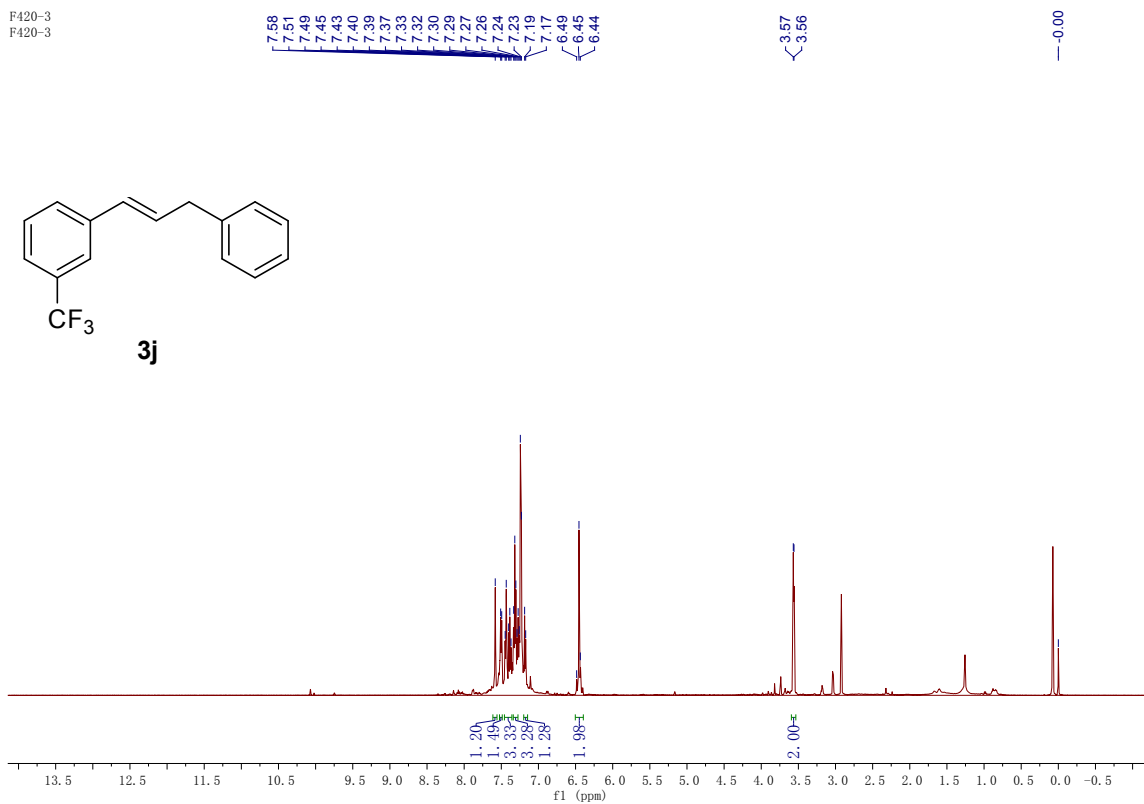
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139.56
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128.70
128.62
128.40
128.27
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128.45

77.28
77.02
76.77

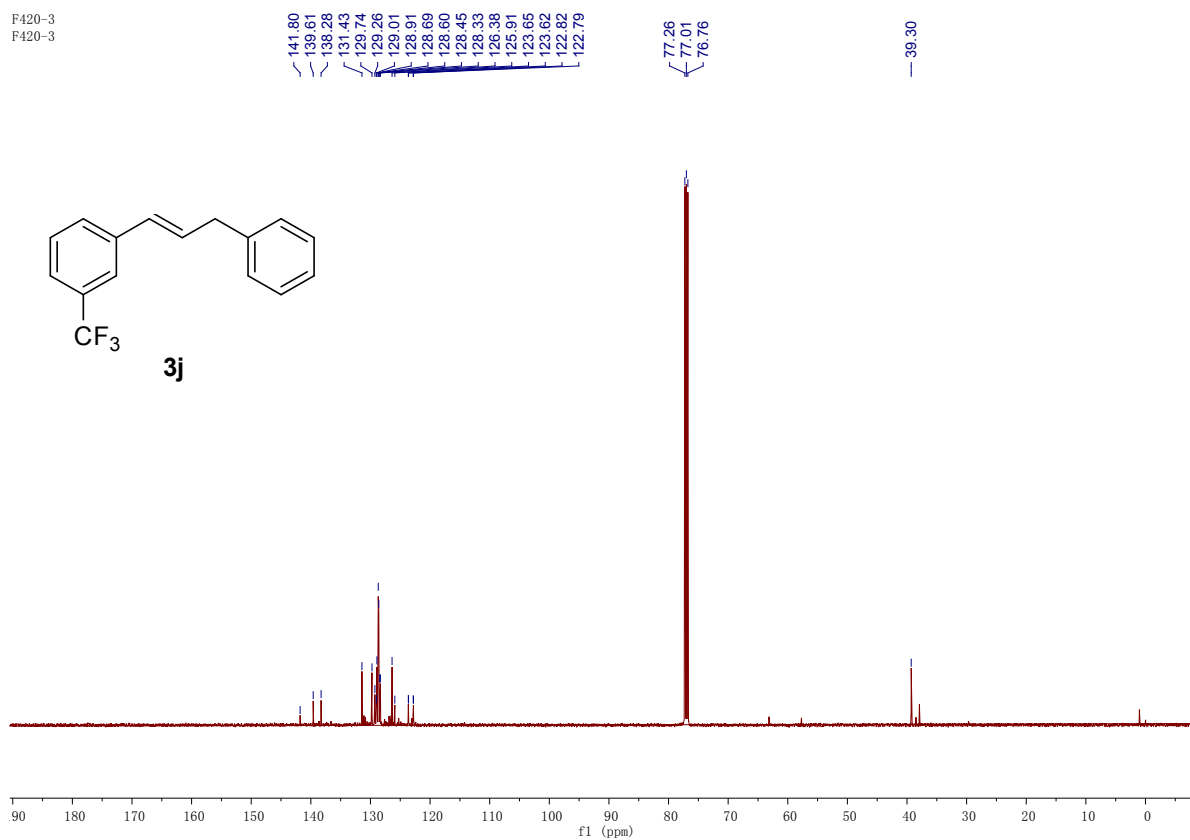
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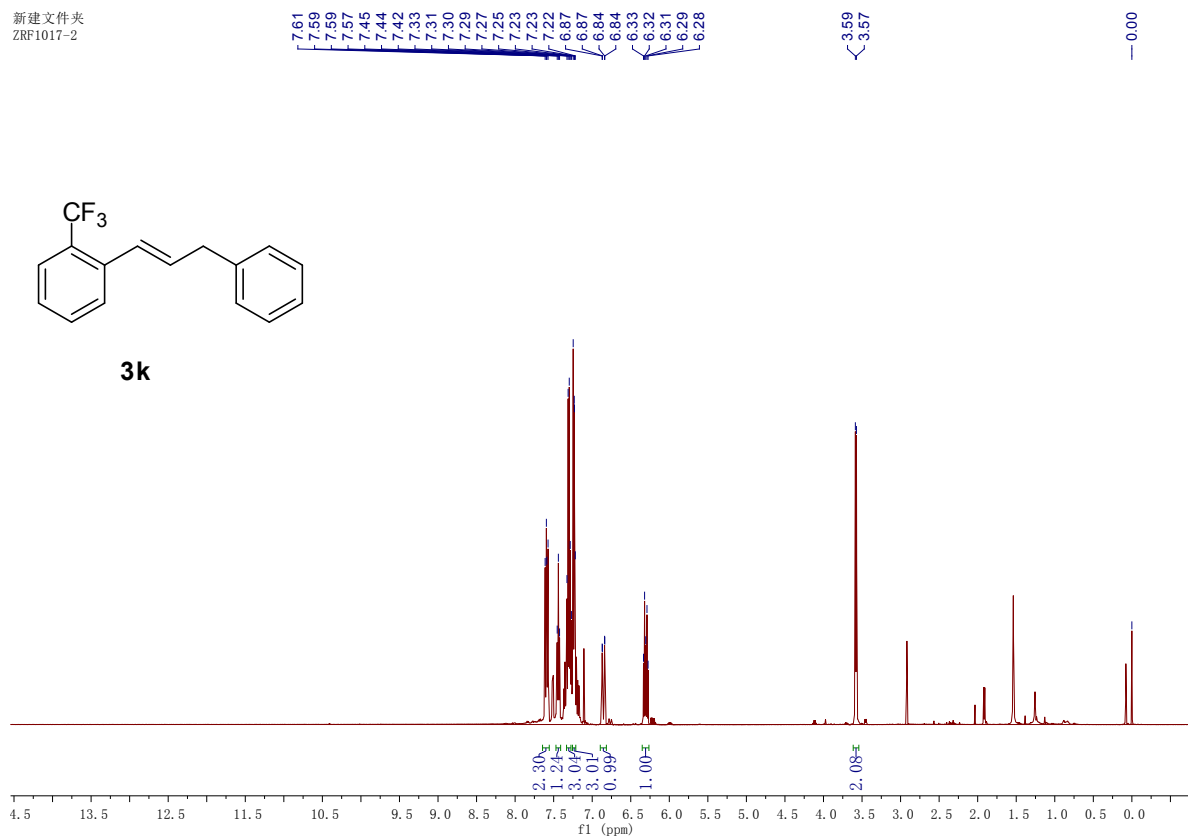
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F420-3



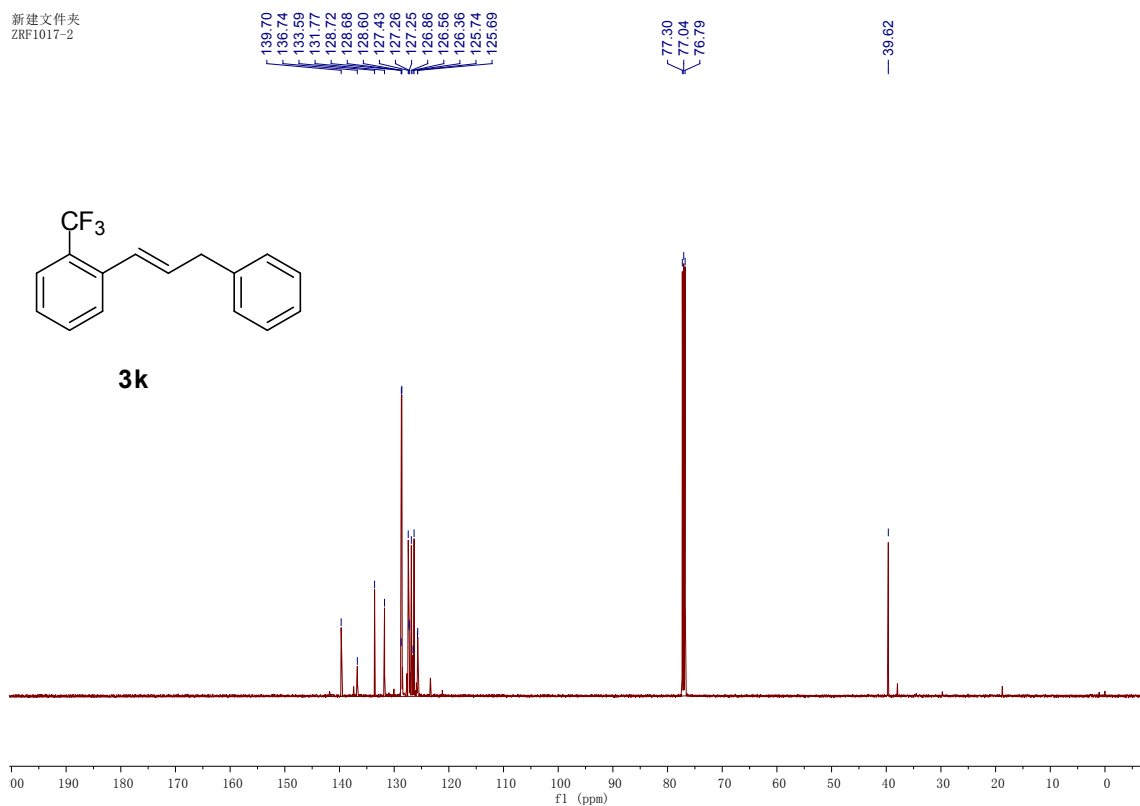
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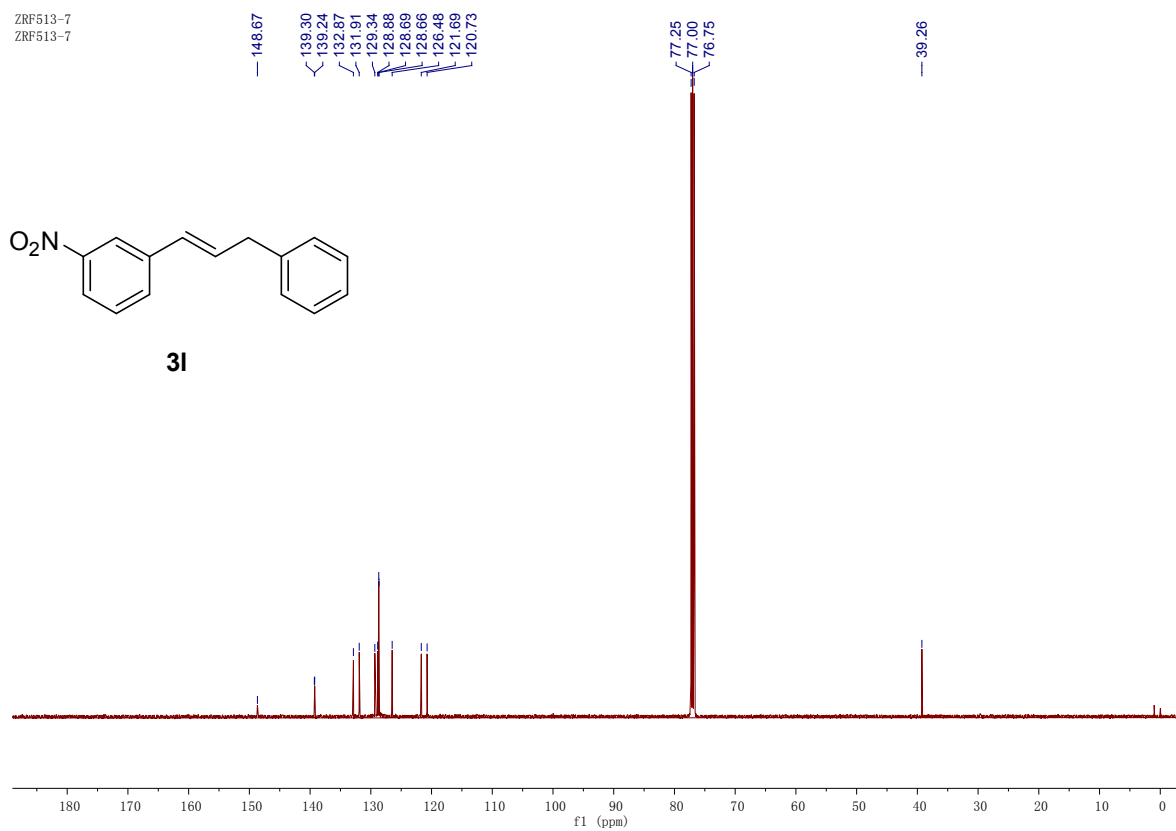
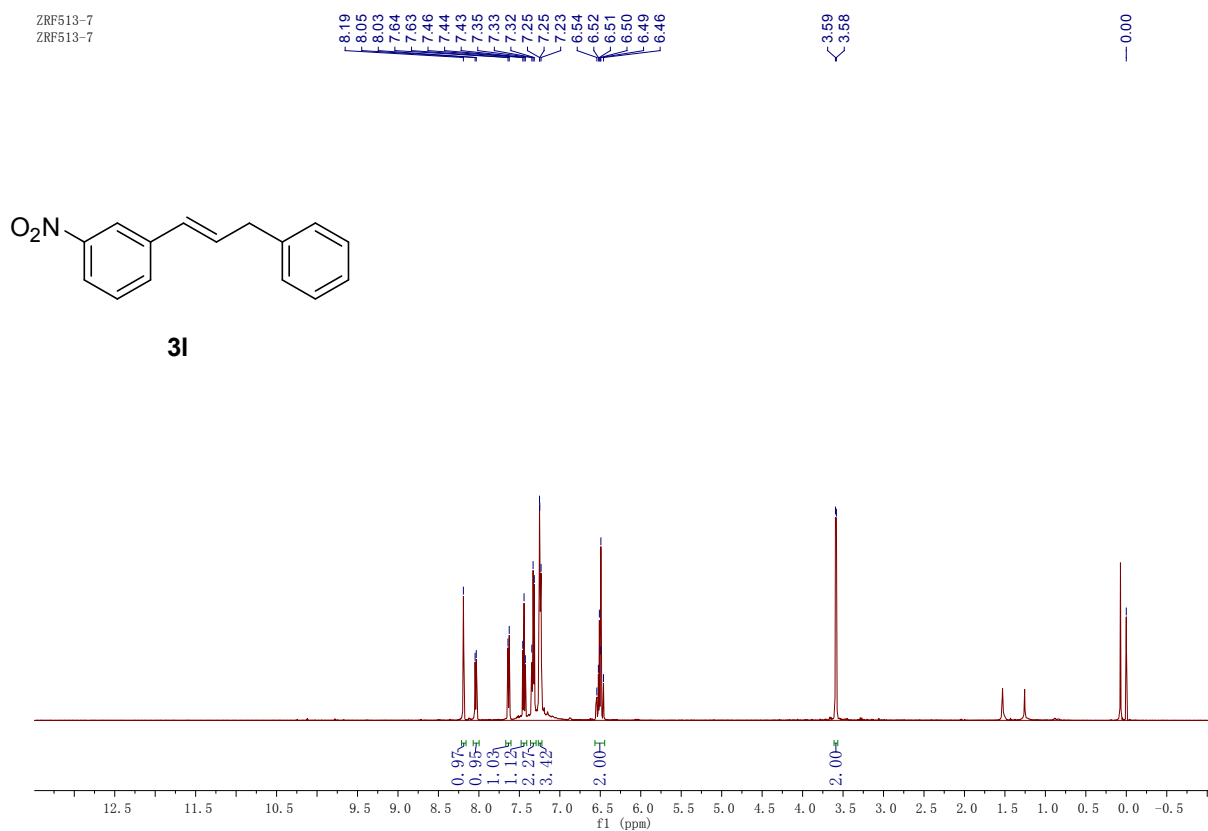


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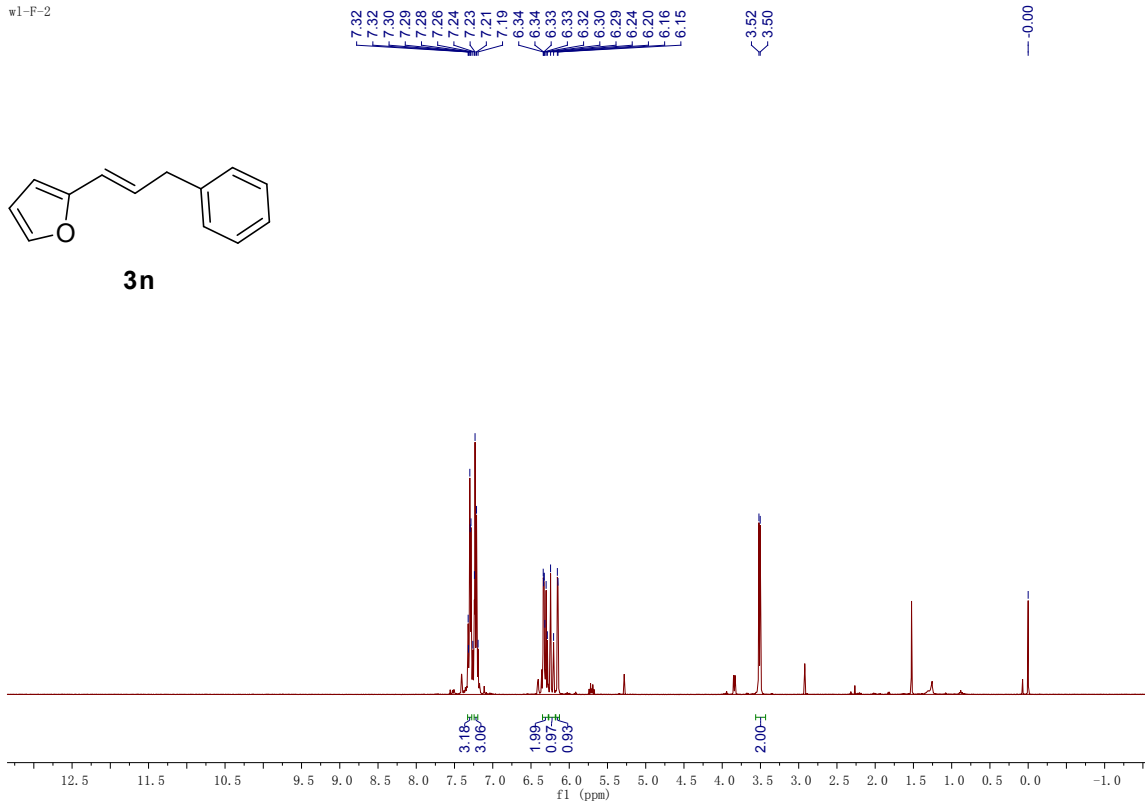


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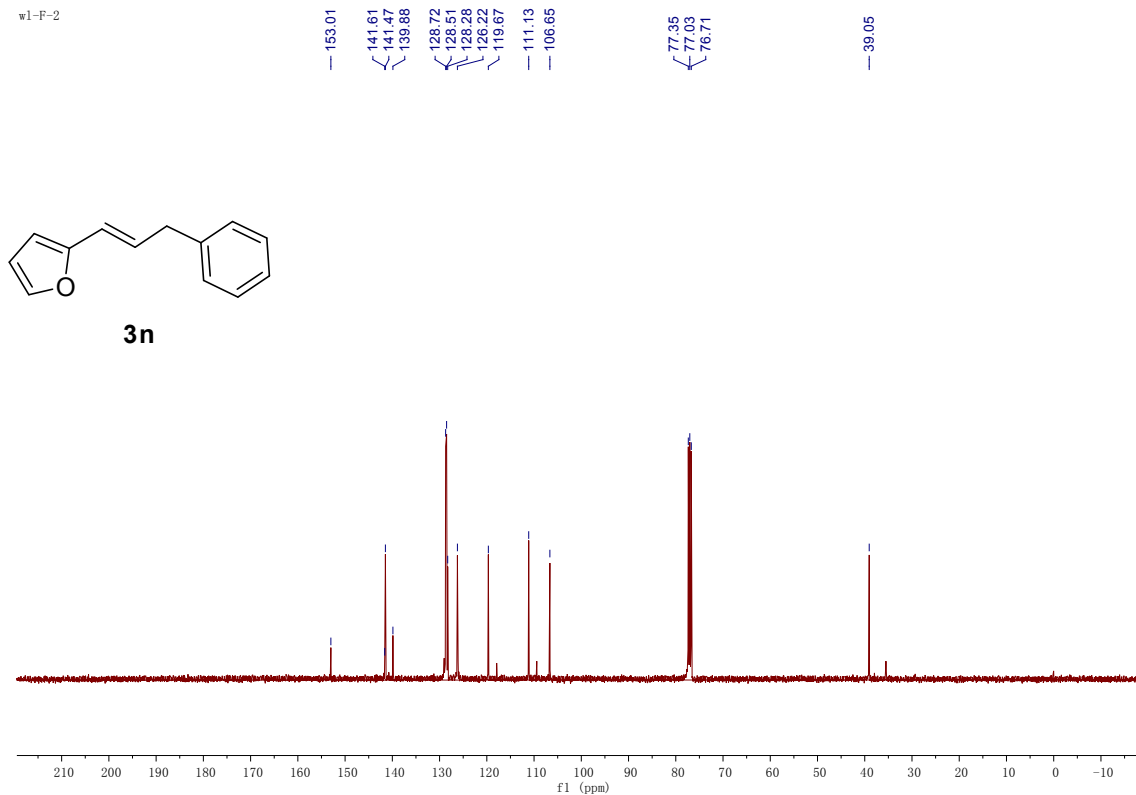




w1-F-2



w1-F-2



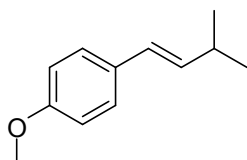
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F914-2

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7.27
7.26
6.84
6.82
6.30
6.26
6.07
6.06
6.04
6.03

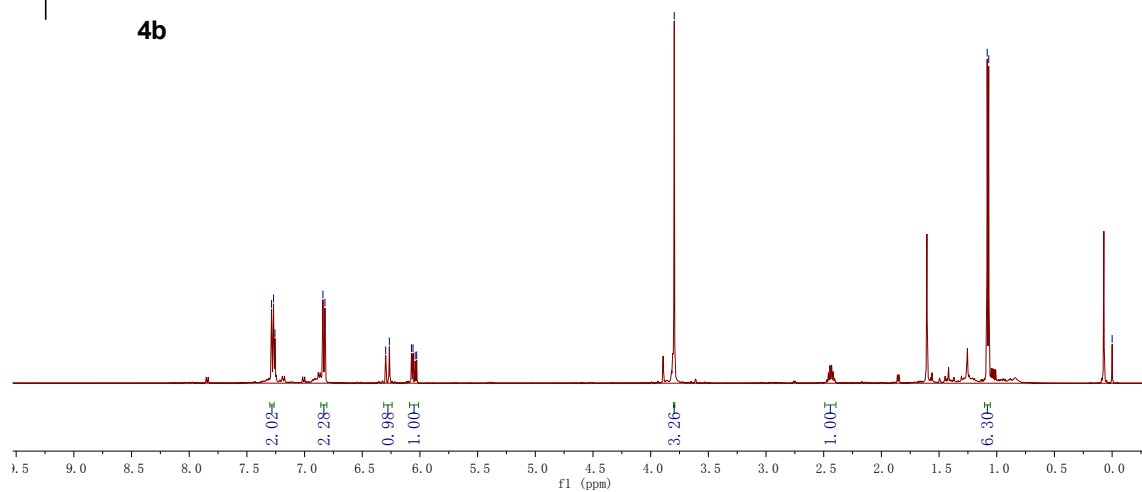
3.80

1.08
1.07

-0.00



4b



F914-2
F914-2

158.65

135.99
130.84
127.04
126.18

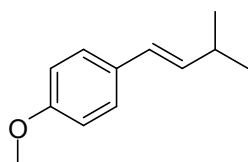
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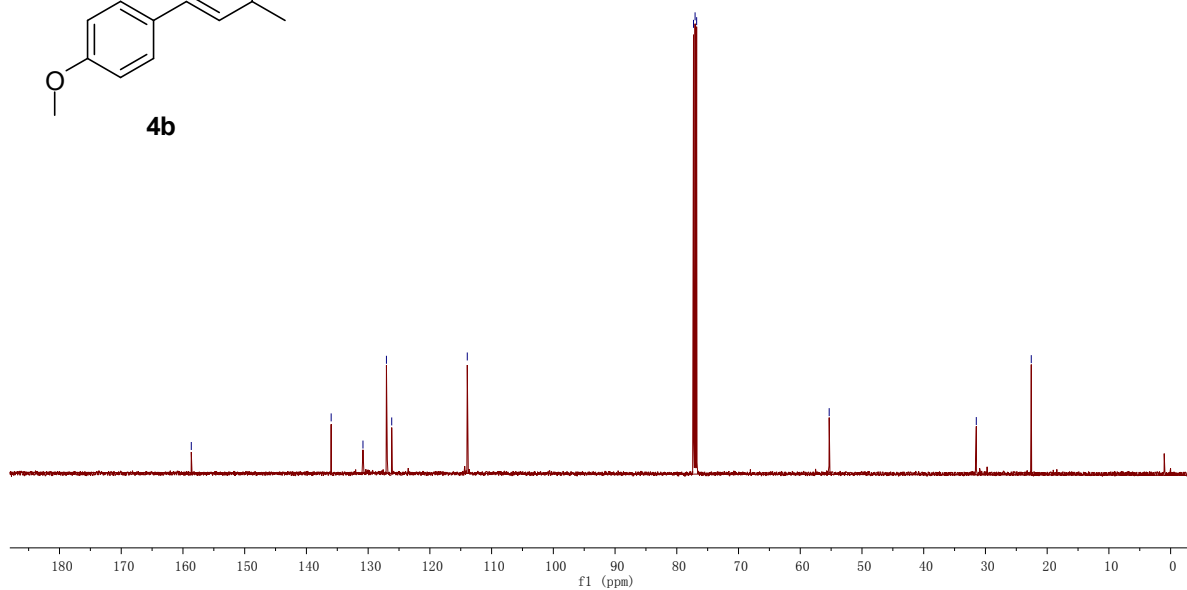
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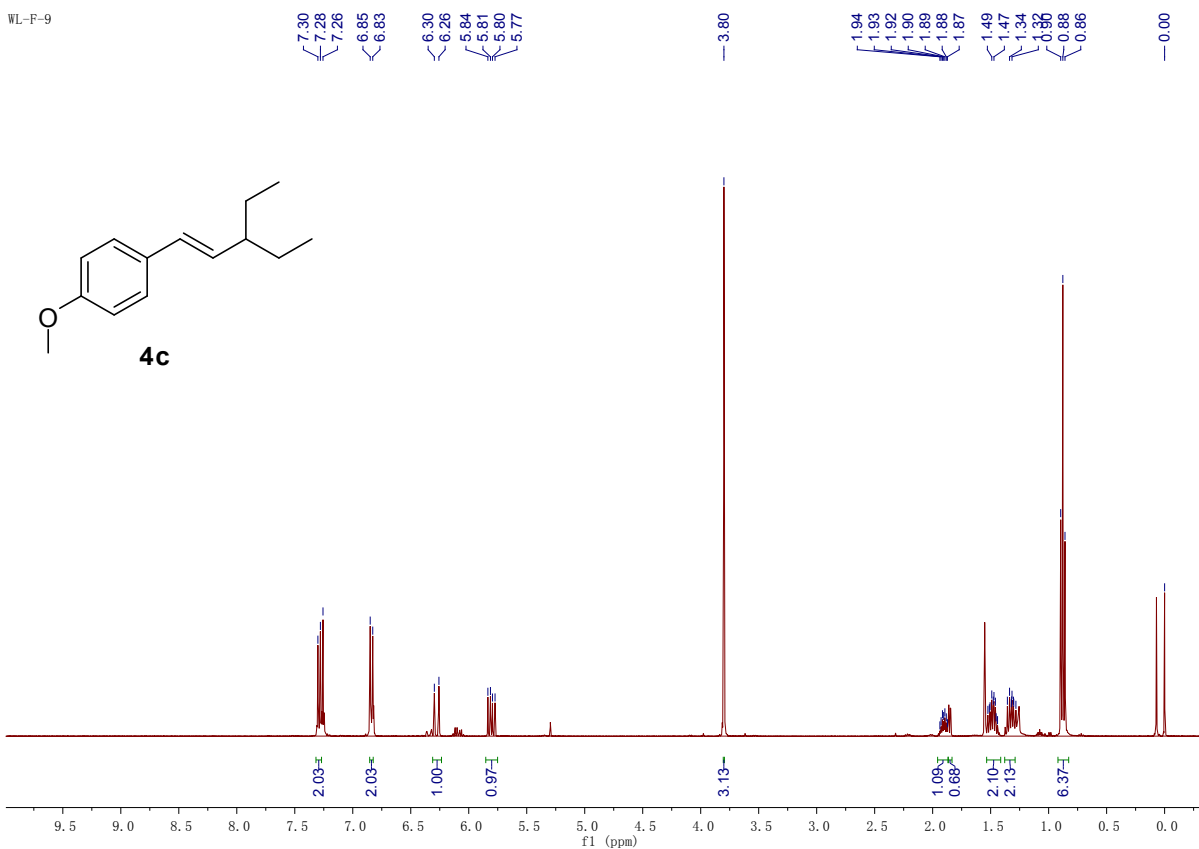
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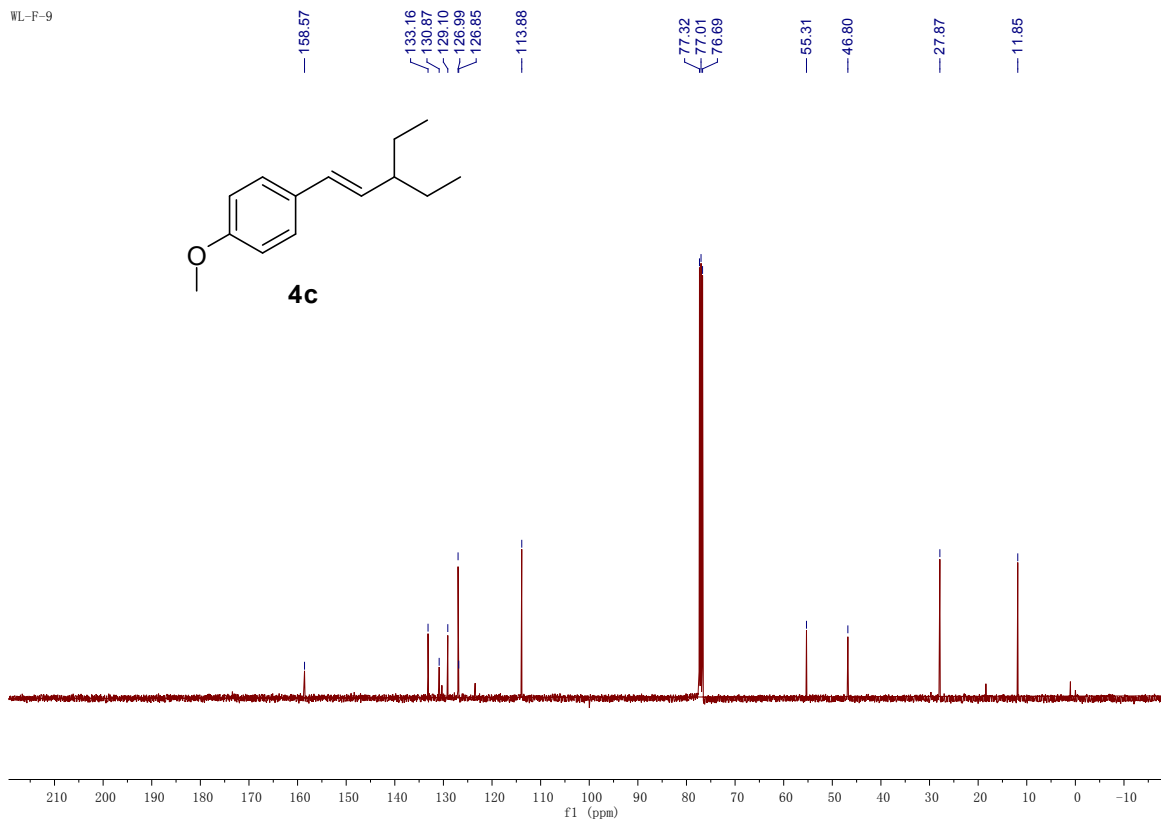
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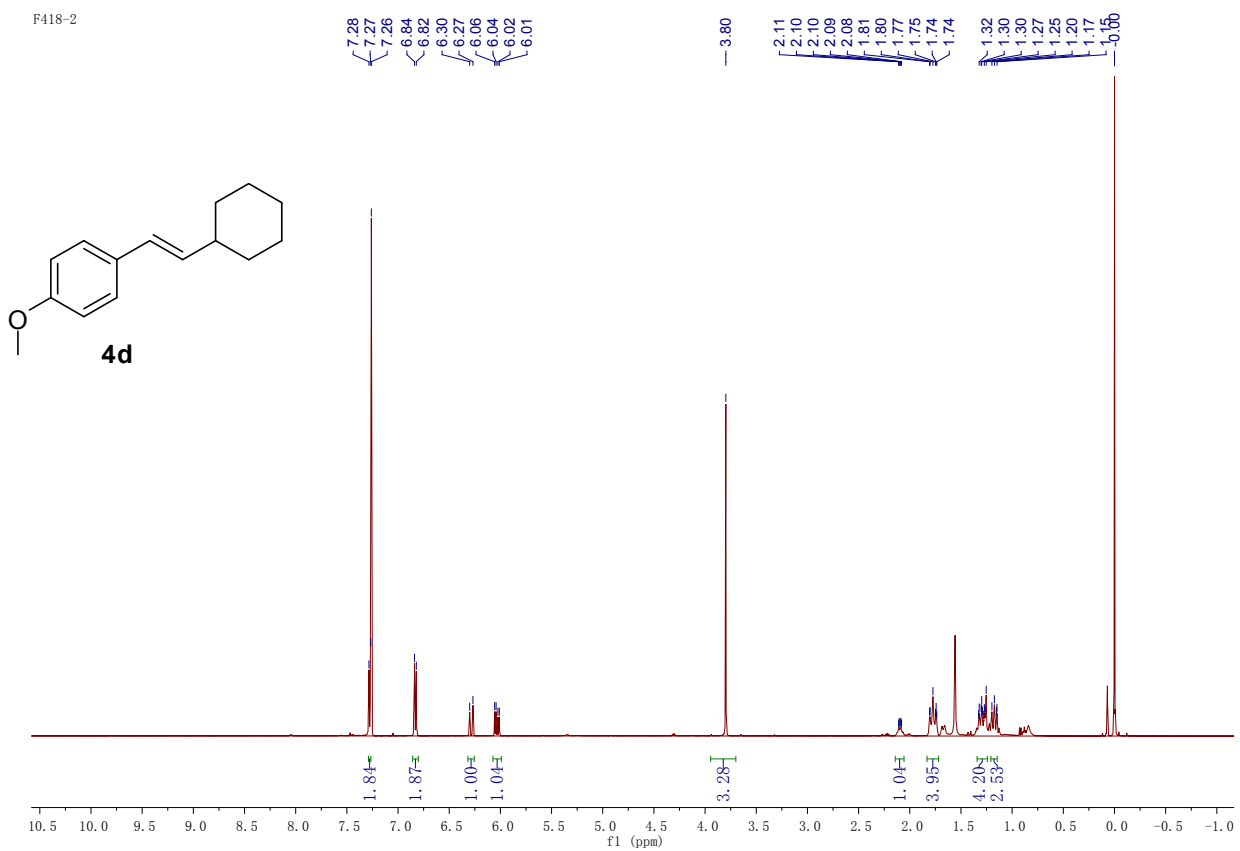
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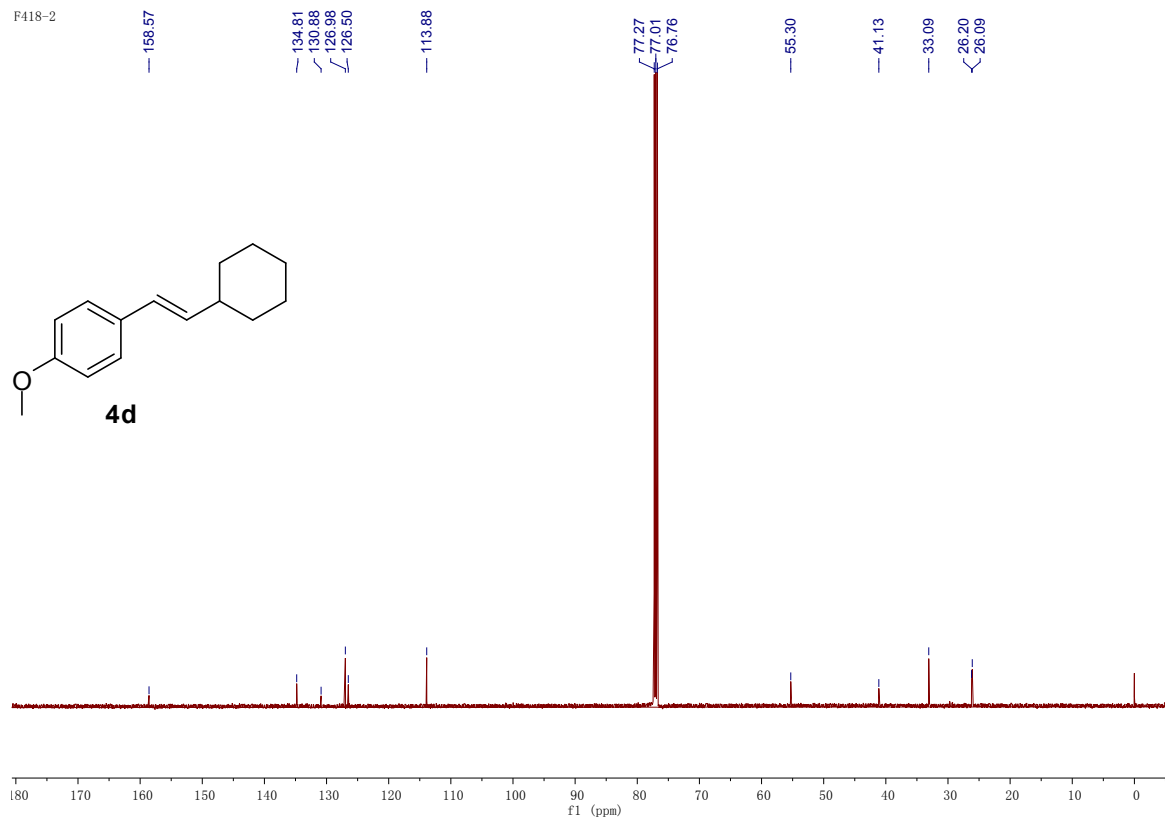
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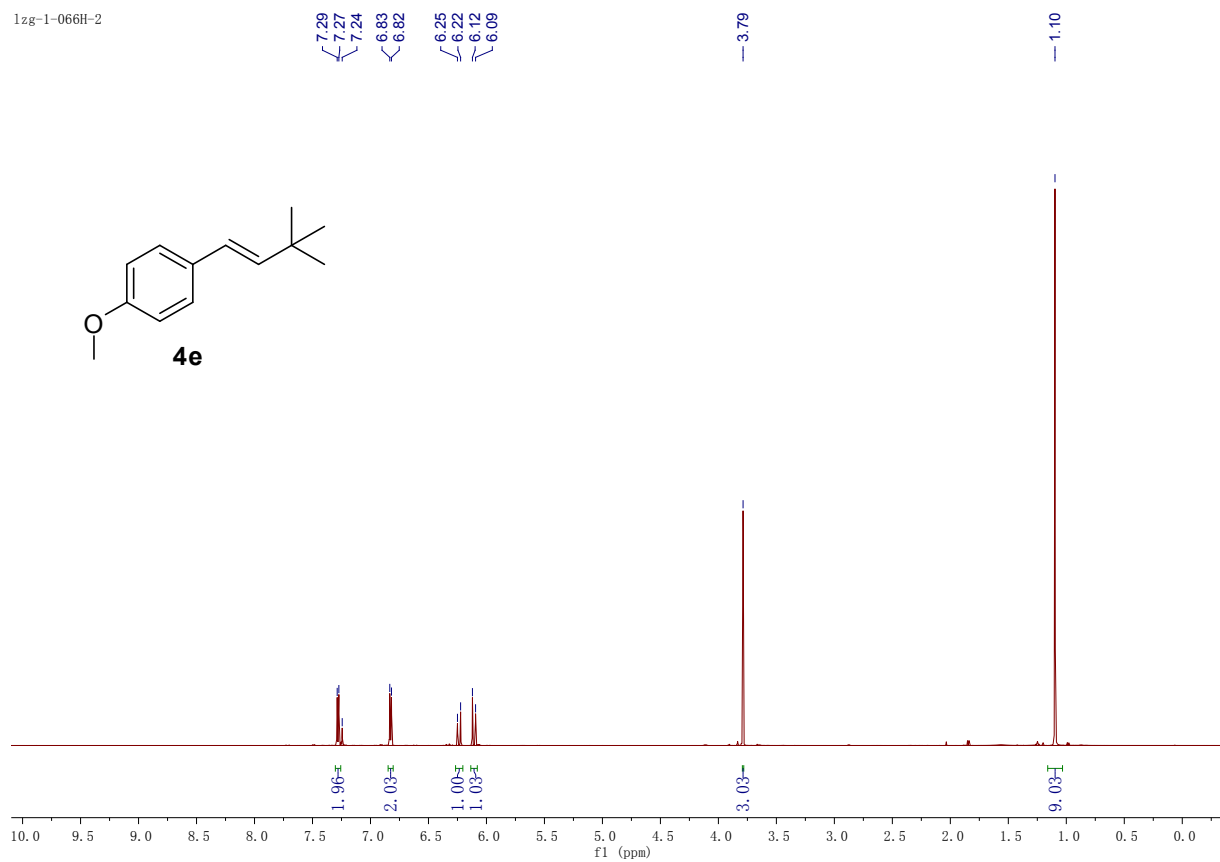
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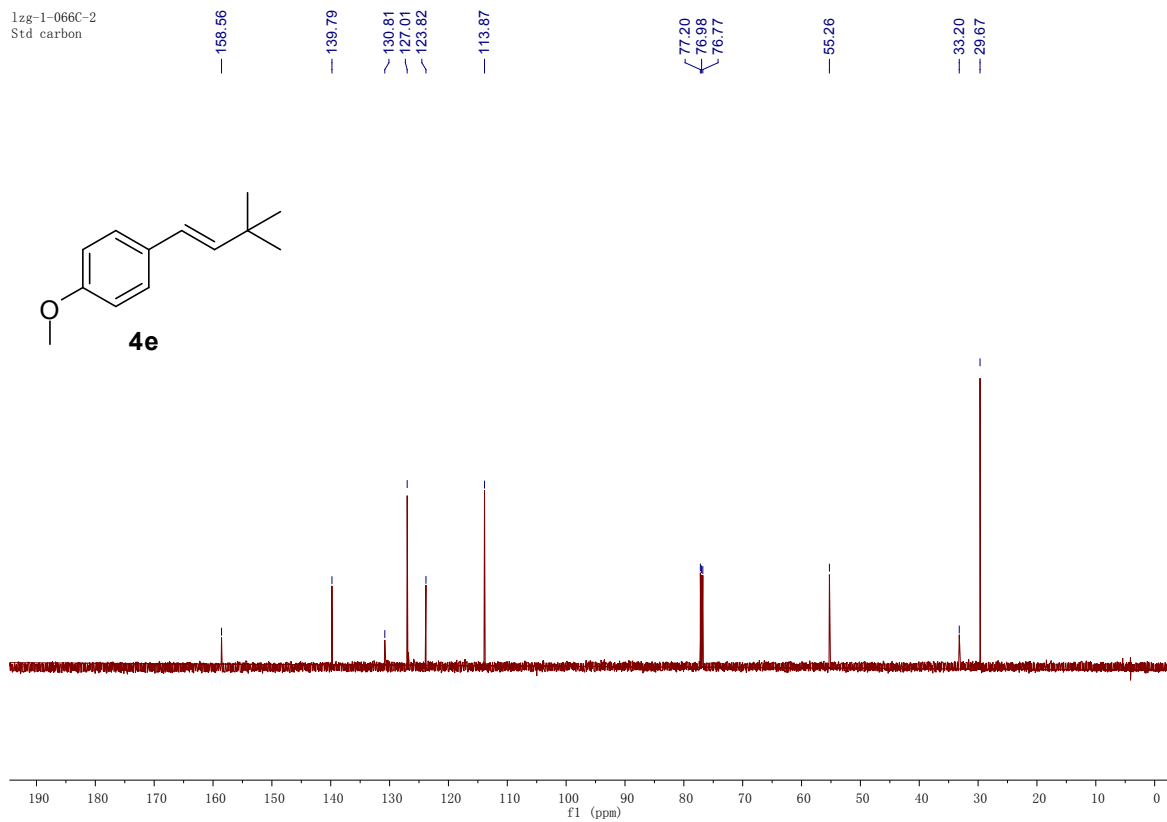
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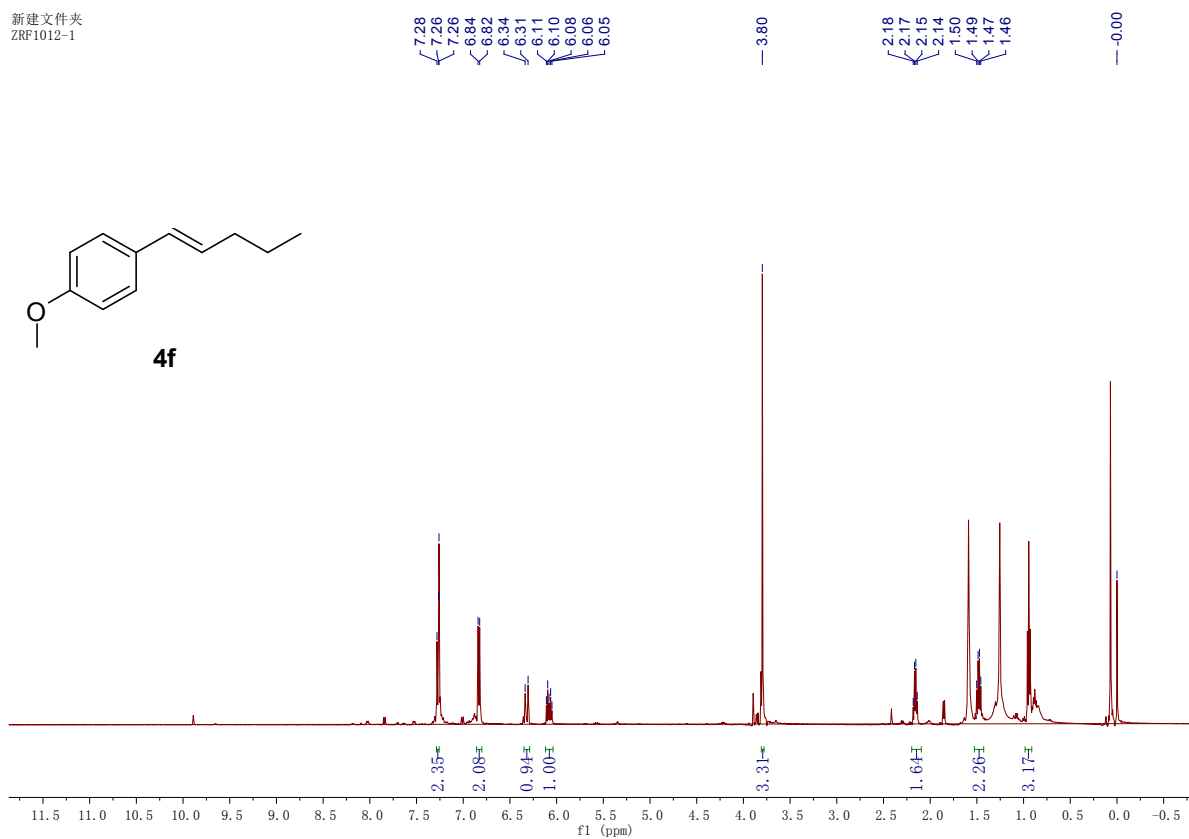
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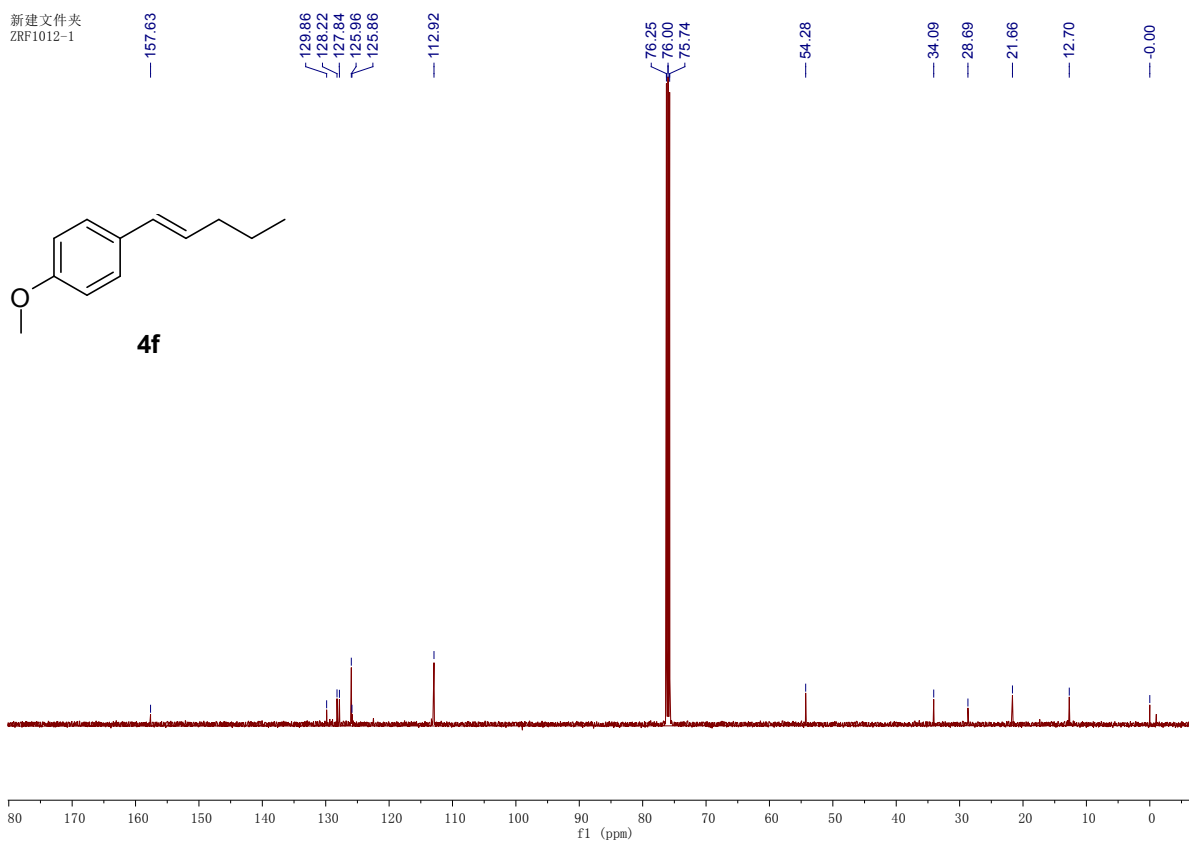
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Std carbon



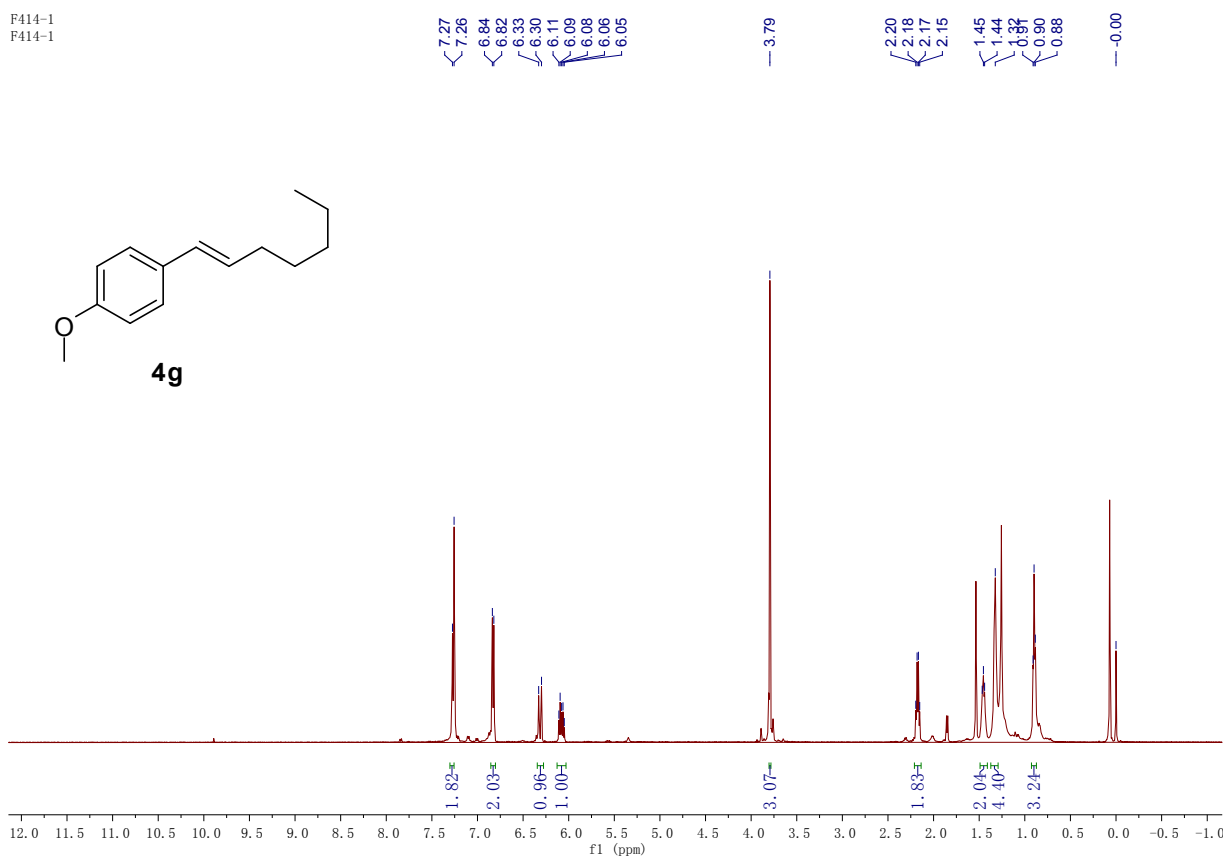
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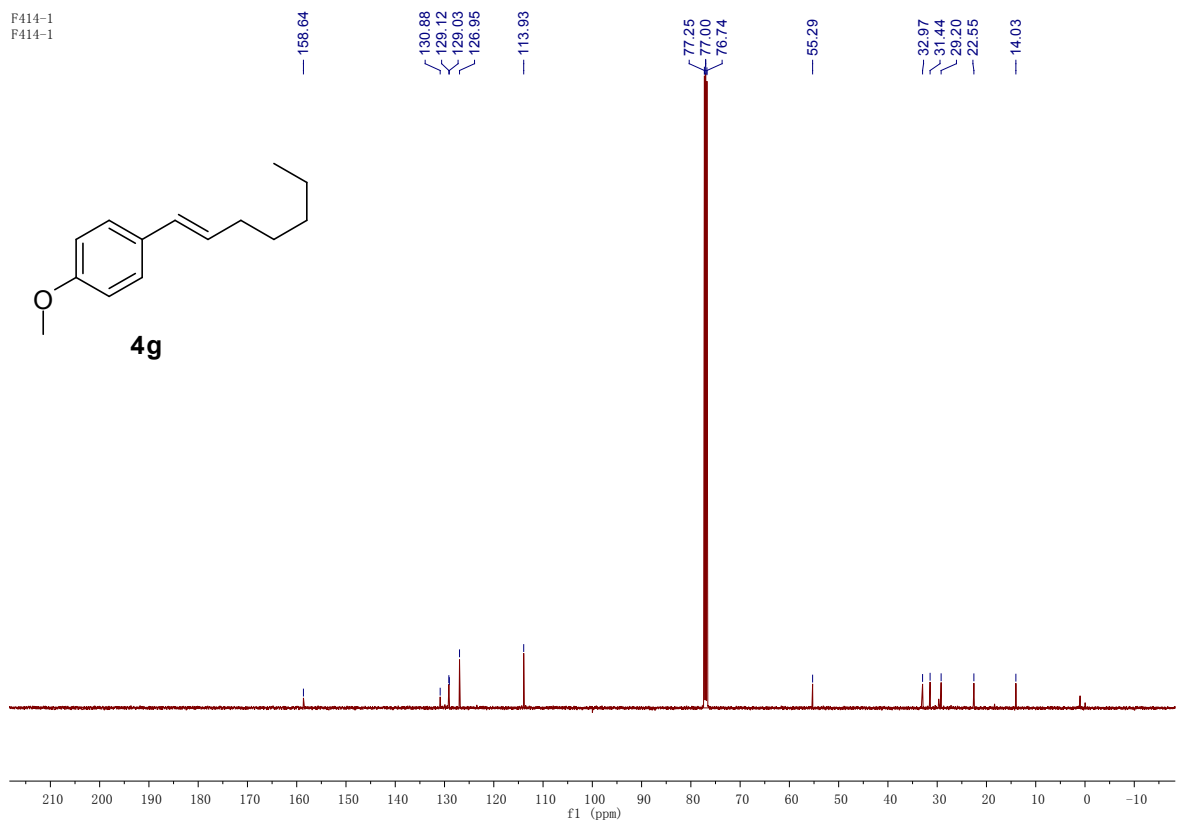
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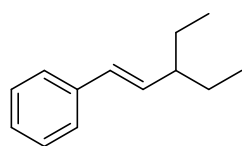
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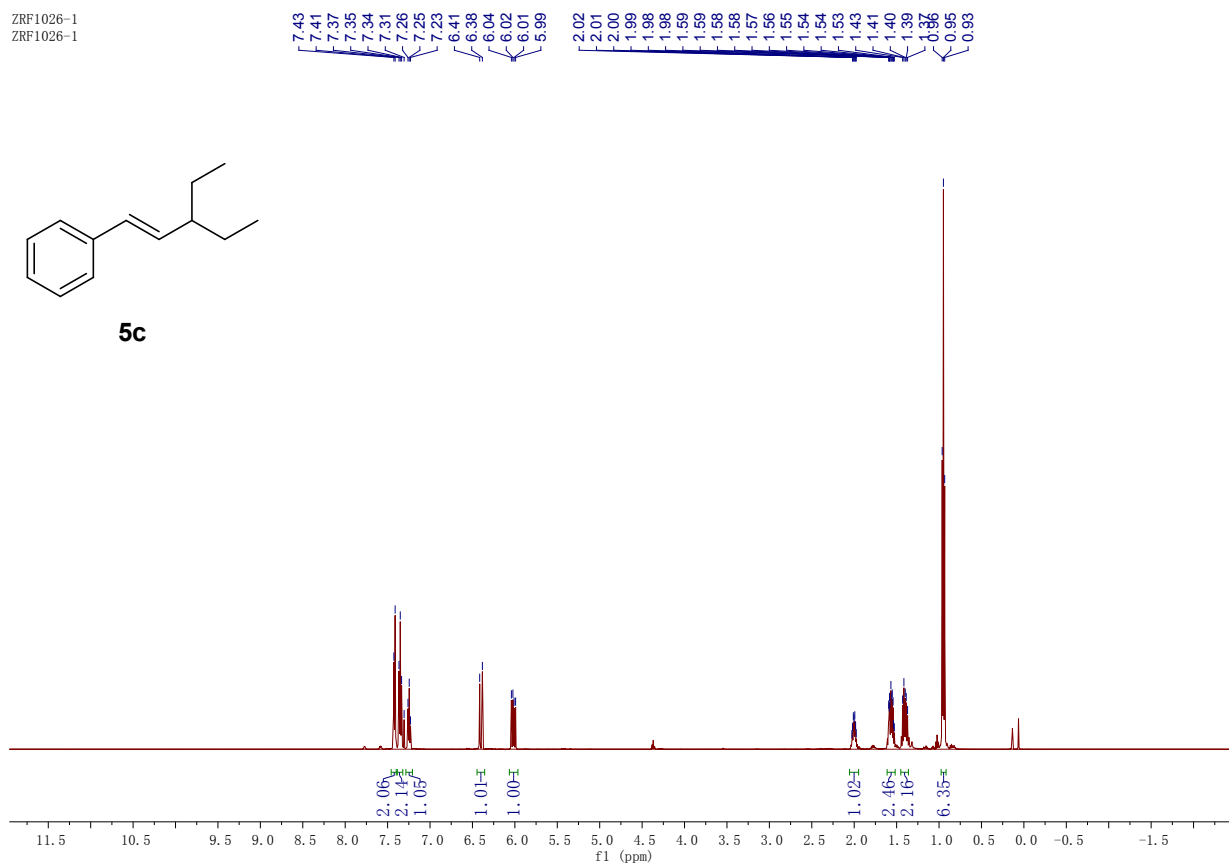
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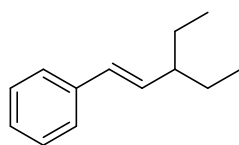
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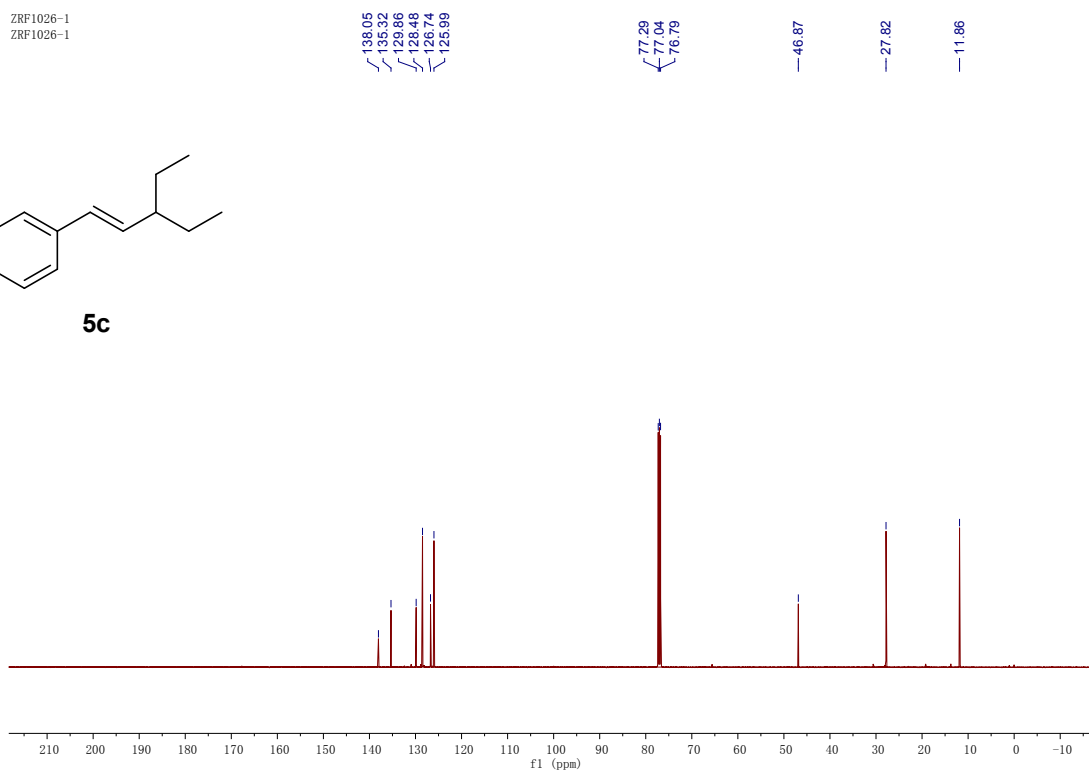
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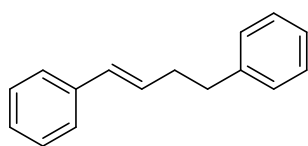
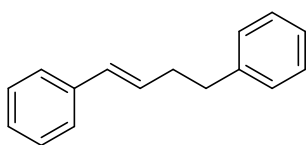
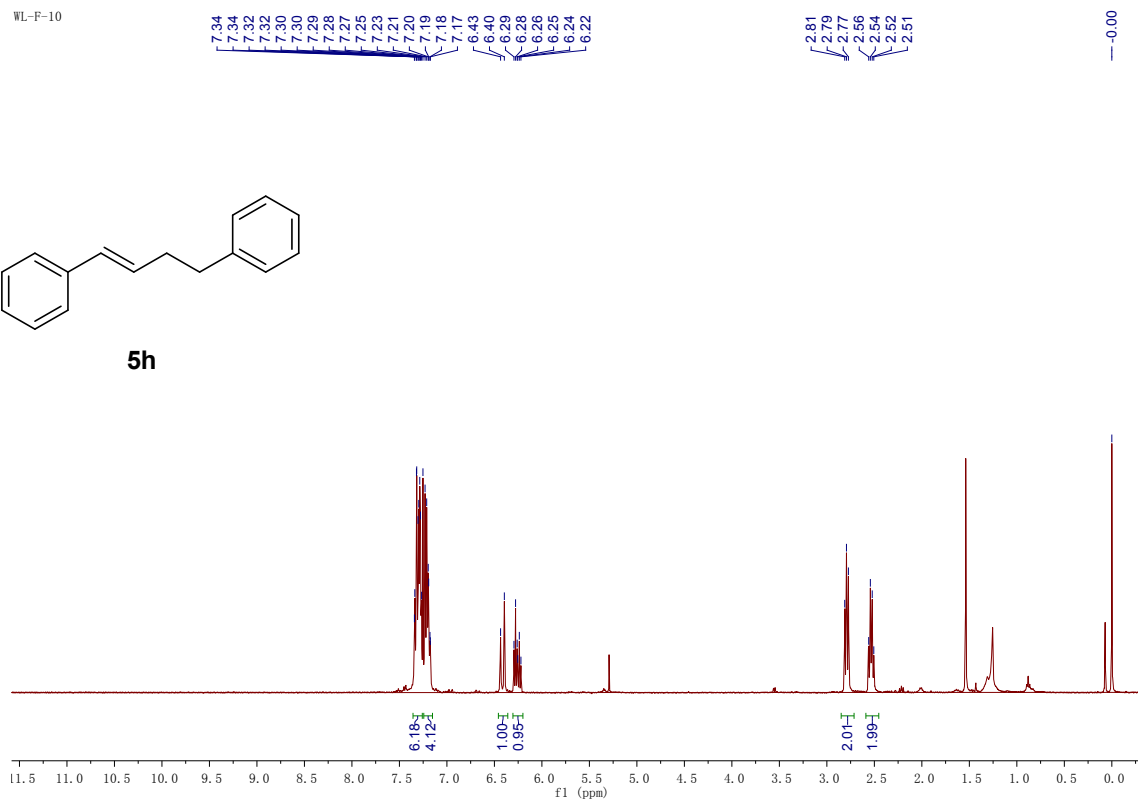
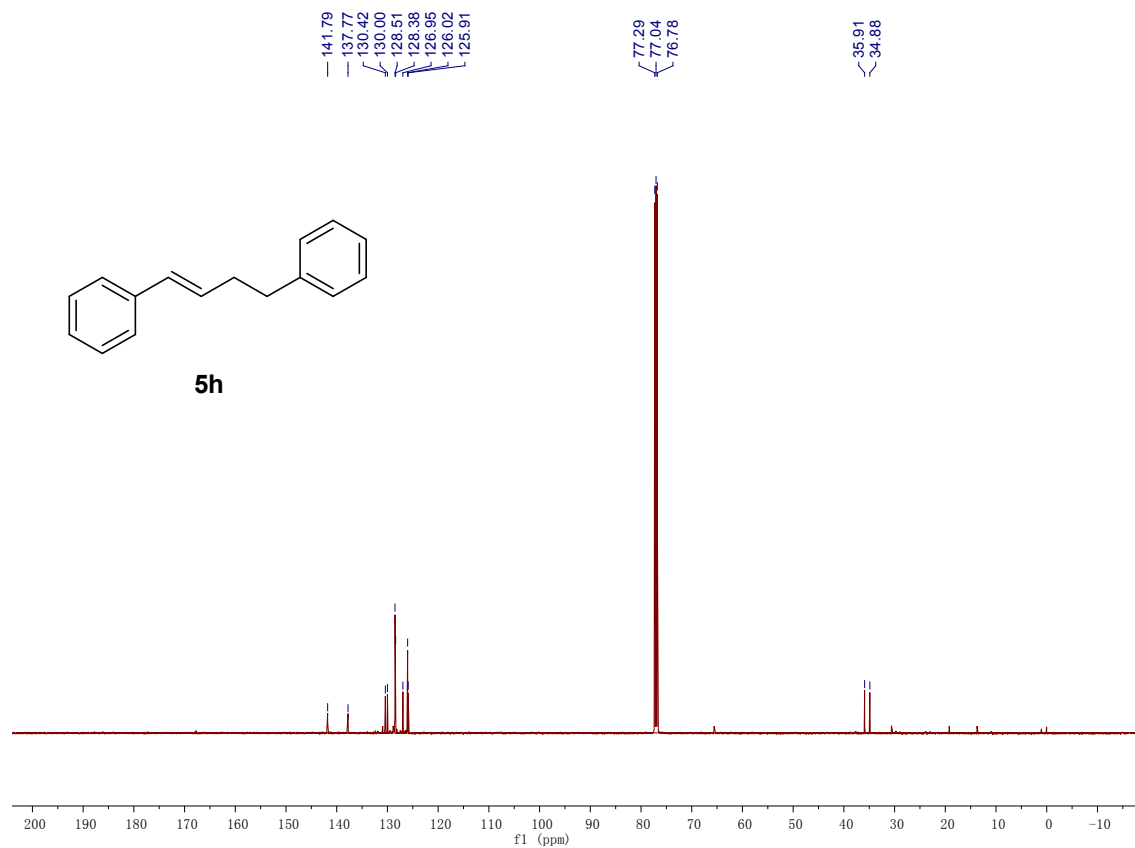


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5c



**5h****5h**

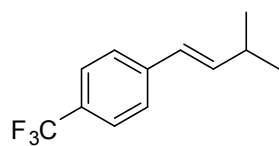
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ZRF513-5

7.35
7.33
7.29
7.28
7.26
7.25
7.19
7.18
7.16
6.35
6.32
6.21
6.20
6.18
6.17

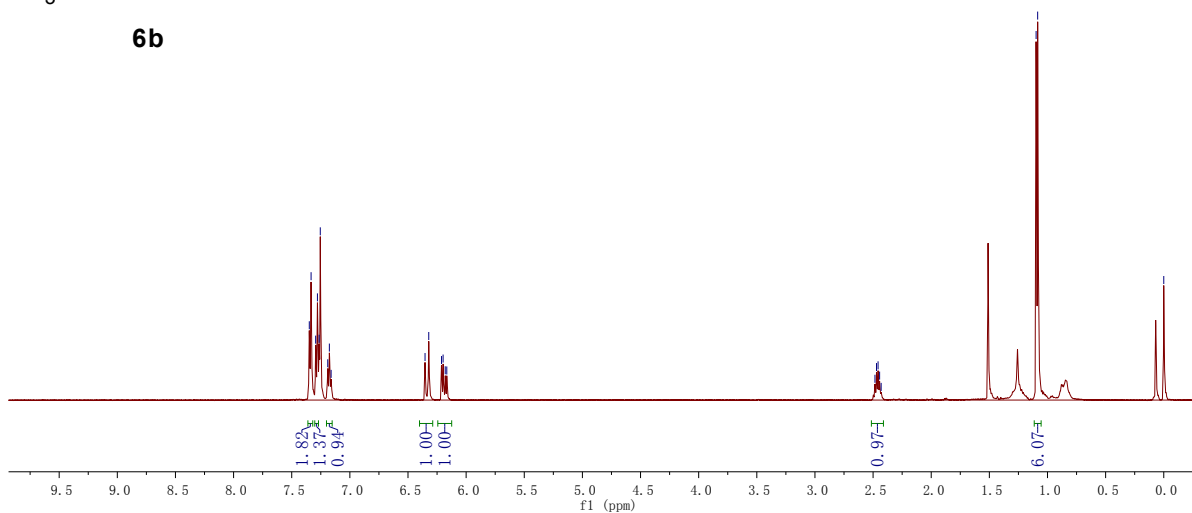
2.48
2.47
2.46
2.44
2.43

1.10
1.08

-0.00



6b



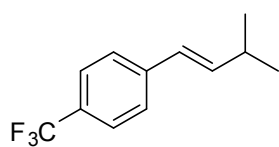
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126.87
126.73
125.96

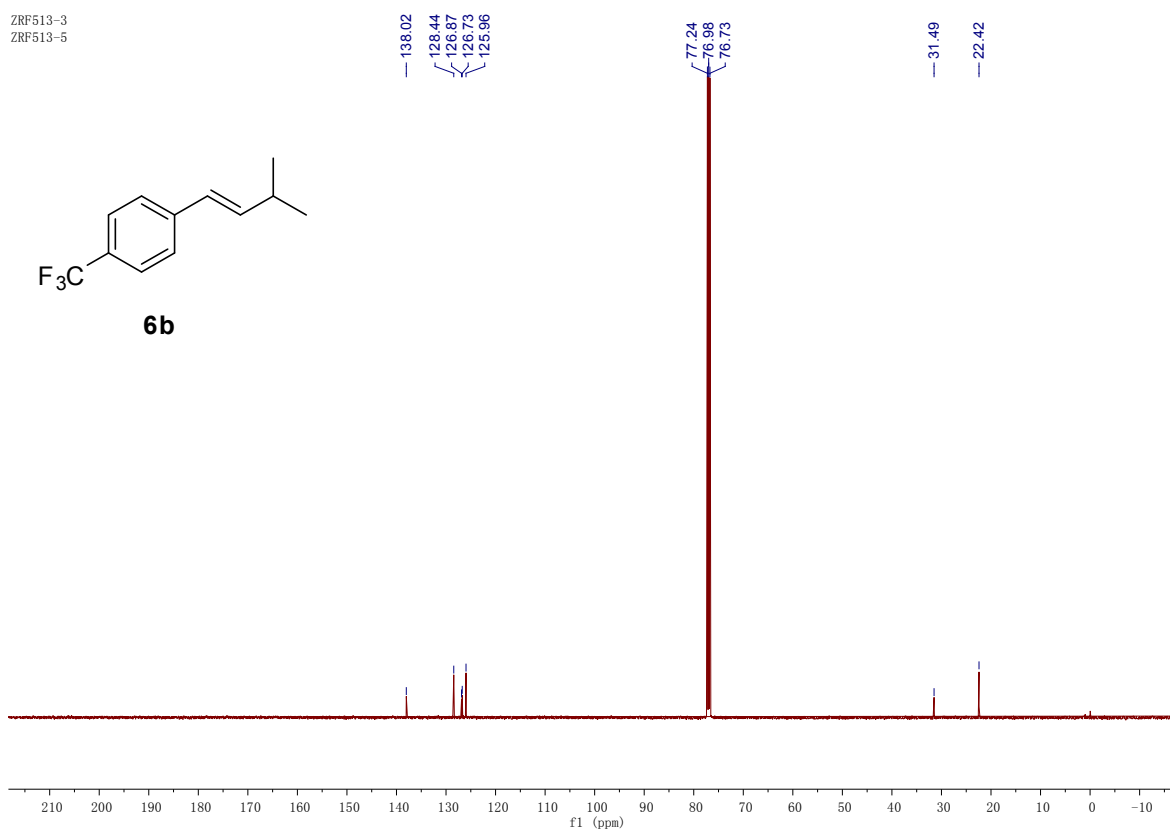
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76.73

31.49

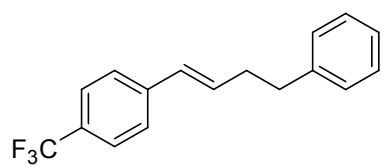
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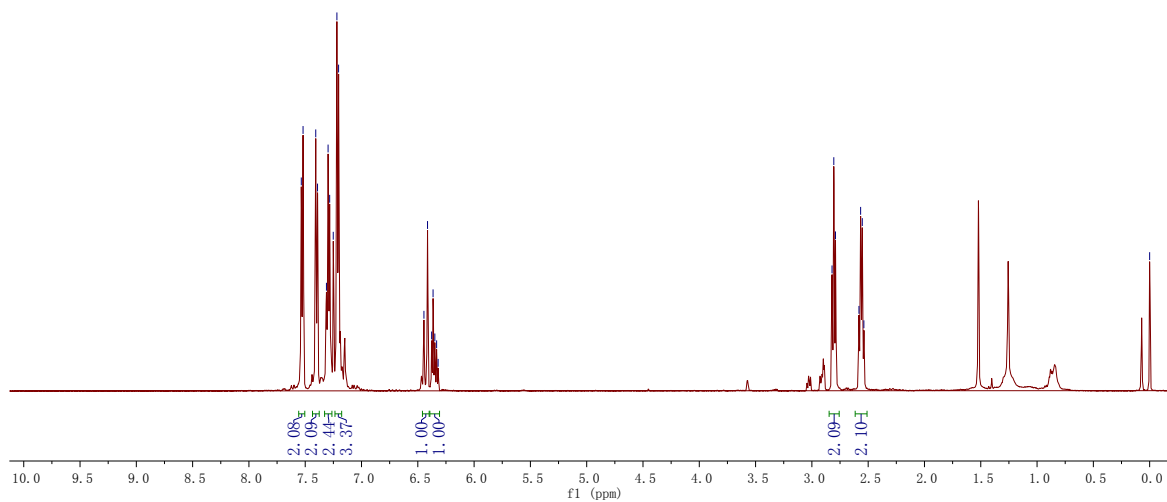
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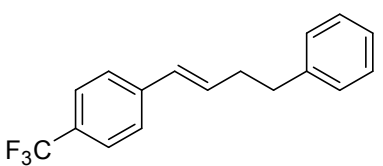
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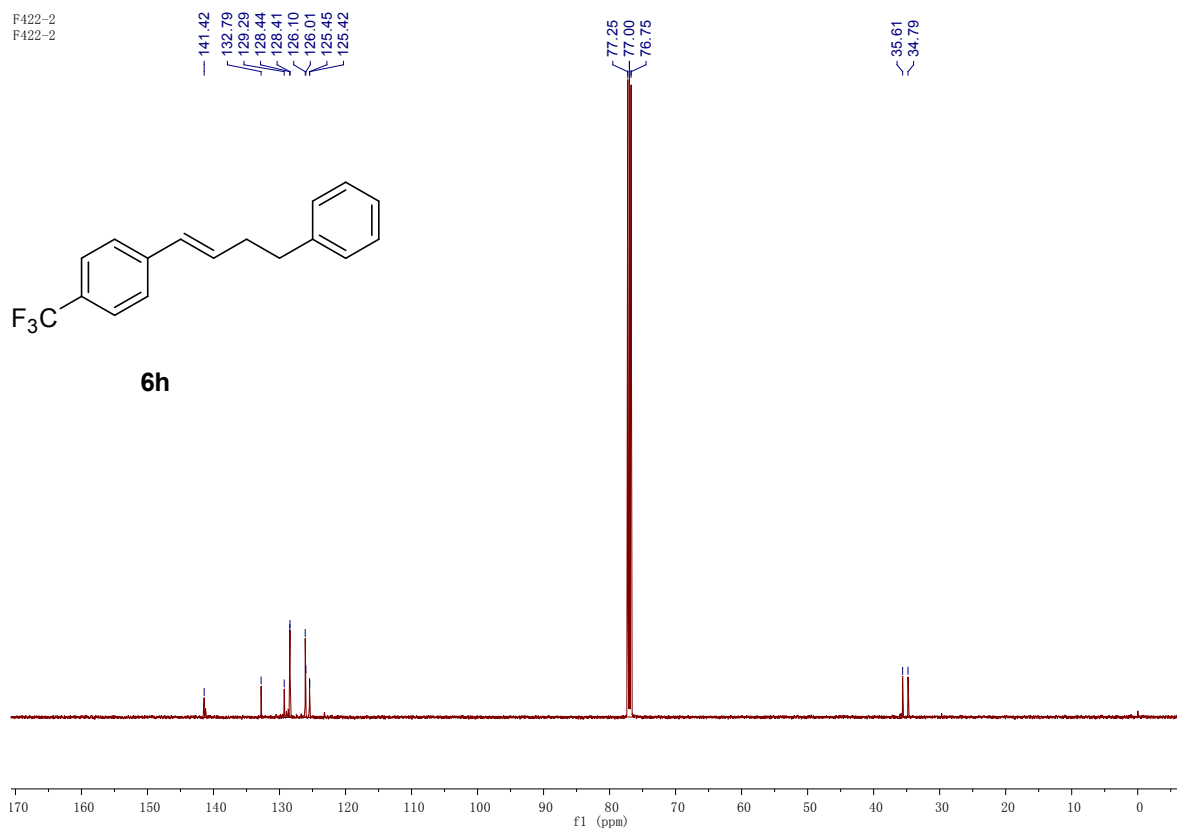
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F422-2
F422-2



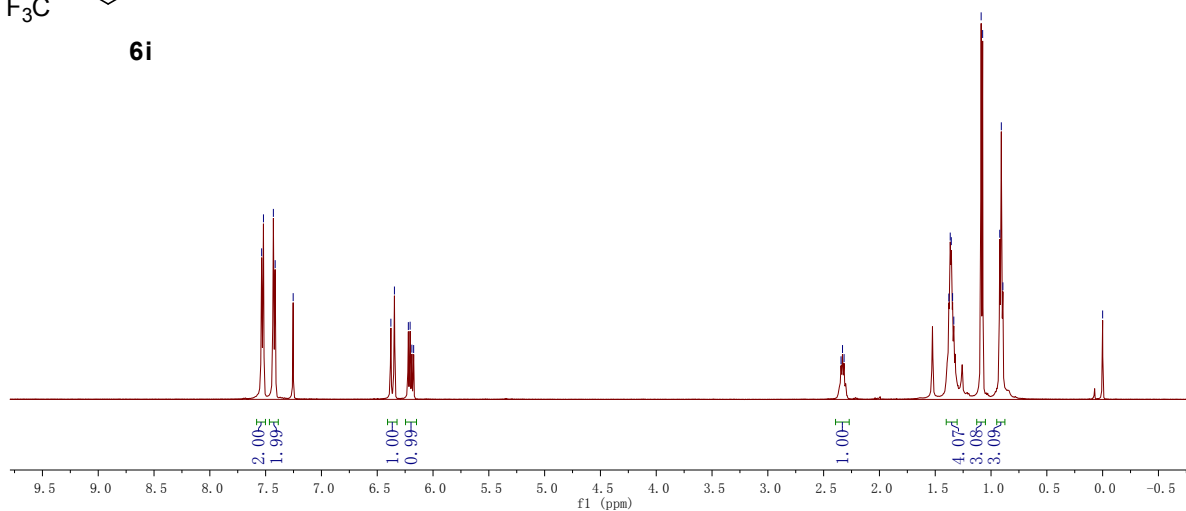
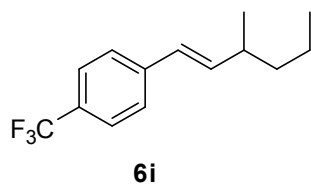
6h



Ju102-2018
F626-3

7.54
7.52
7.43
7.41
7.25
6.38
6.35
6.22
6.21
6.19
6.17

2.34
2.33
2.32
1.38
1.37
1.36
1.34
1.33
1.09
1.08
0.92
0.91
0.89
0.00



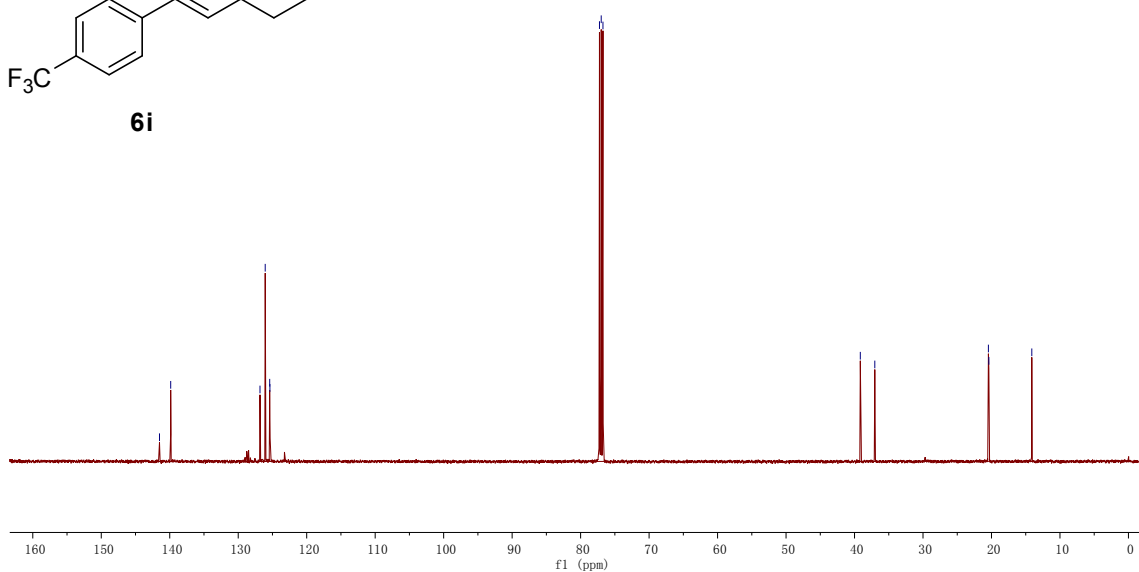
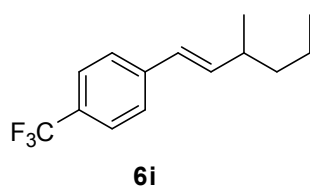
Ju102-2018
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141.50
139.86
126.82
126.06
125.40
125.37

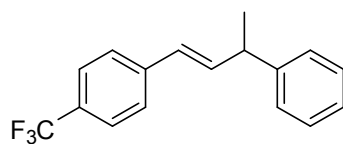
77.25
76.99
76.74

39.16
37.04

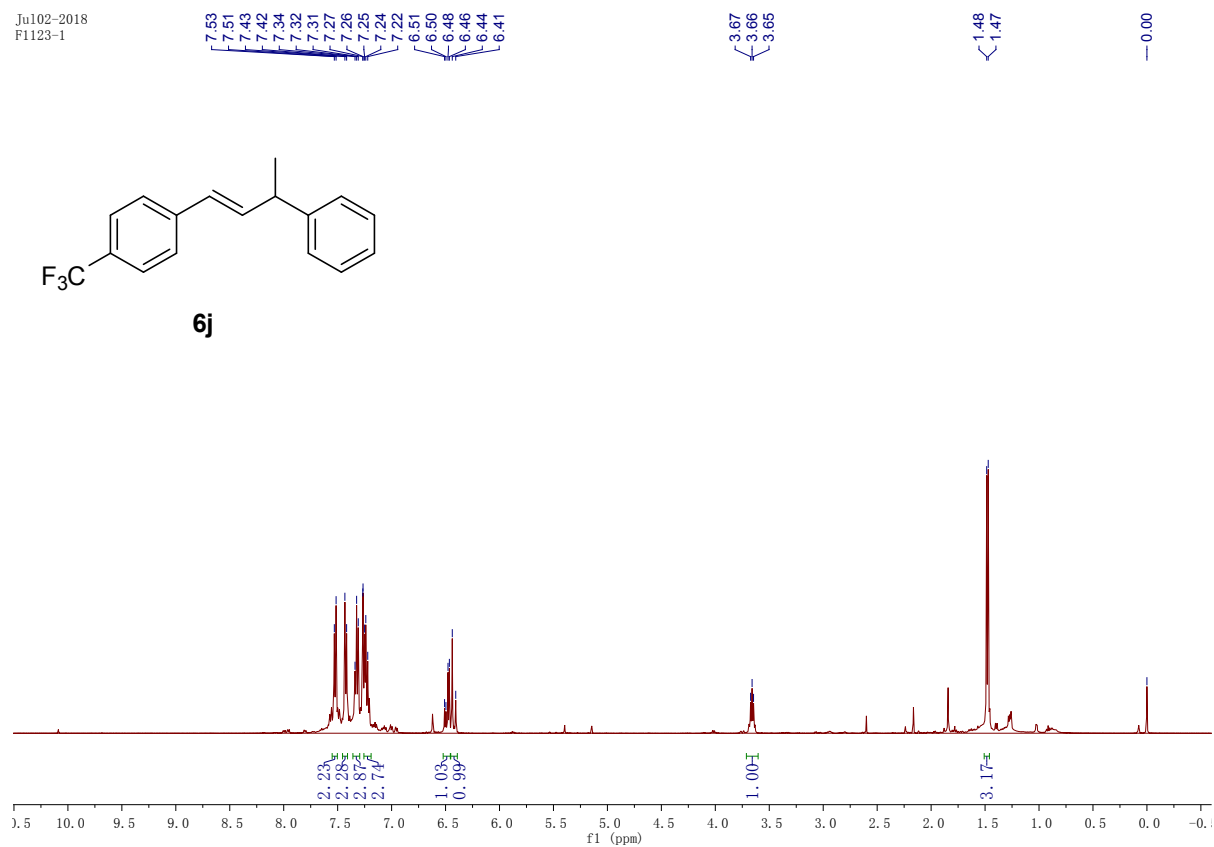
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20.39
14.11



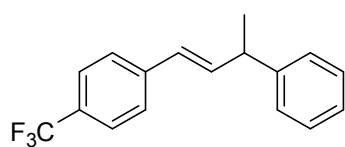
Ju102-2018
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6j



Ju102-2018
F1123-1



6j

