

Electronic Supplementary Material (ESI) for New Journal of Chemistry.

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Nickel-catalyzed regioselective C–H acylation of chelating arenes: new catalytic system for C–C bond formation via a radical process and its mechanism explorations

Ze-lin Li^a, Peng-Yu Wu^a, Kang-kang Sun^a, and Chun Cai^{*a}

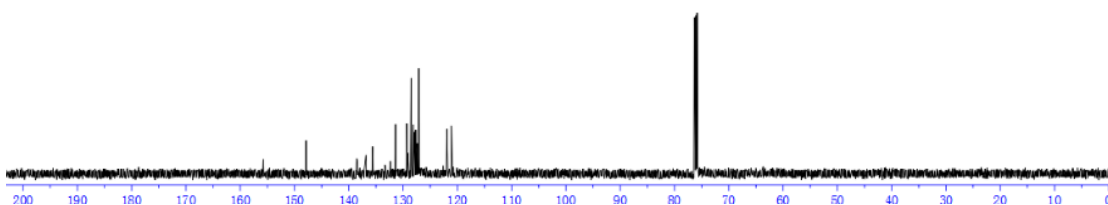
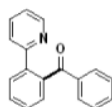
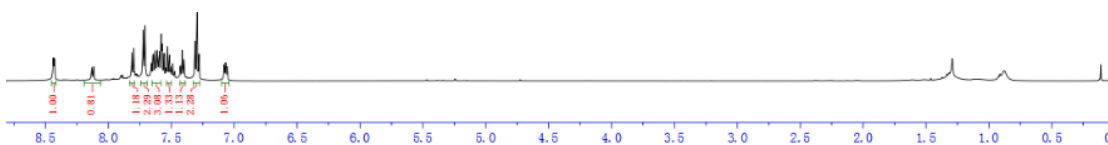
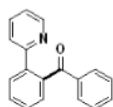
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1. NMR spectra

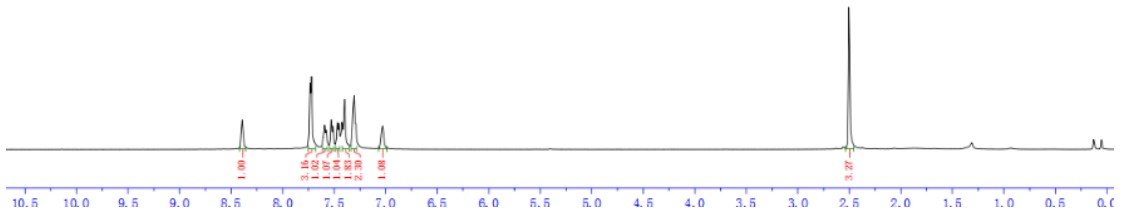
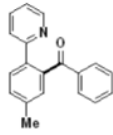
2

1. NMR spectra



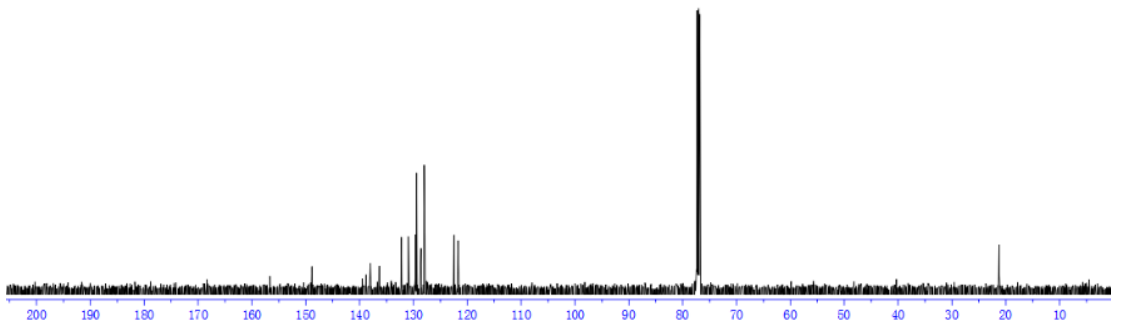
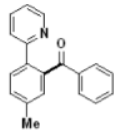
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7.577
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7.308
7.282
7.146
7.069
7.023
7.016

2.205

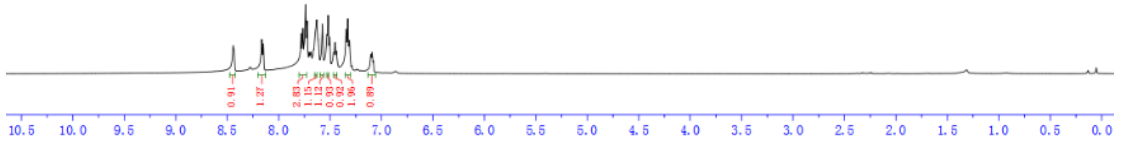
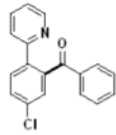


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130.85
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128.03
127.46
127.2

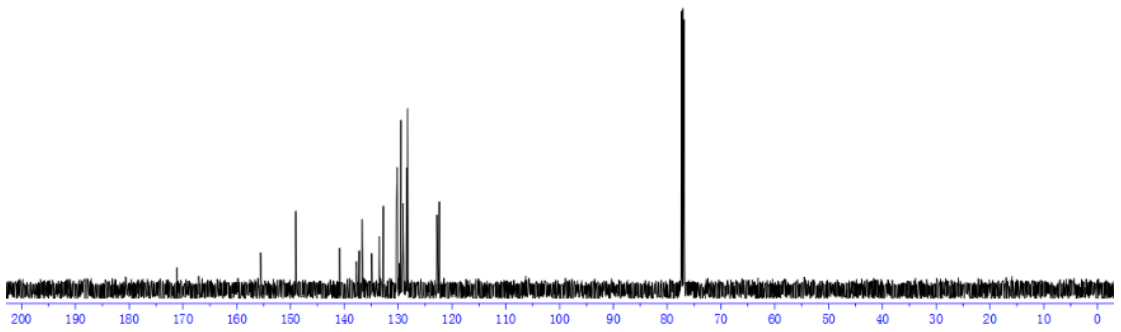
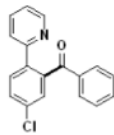
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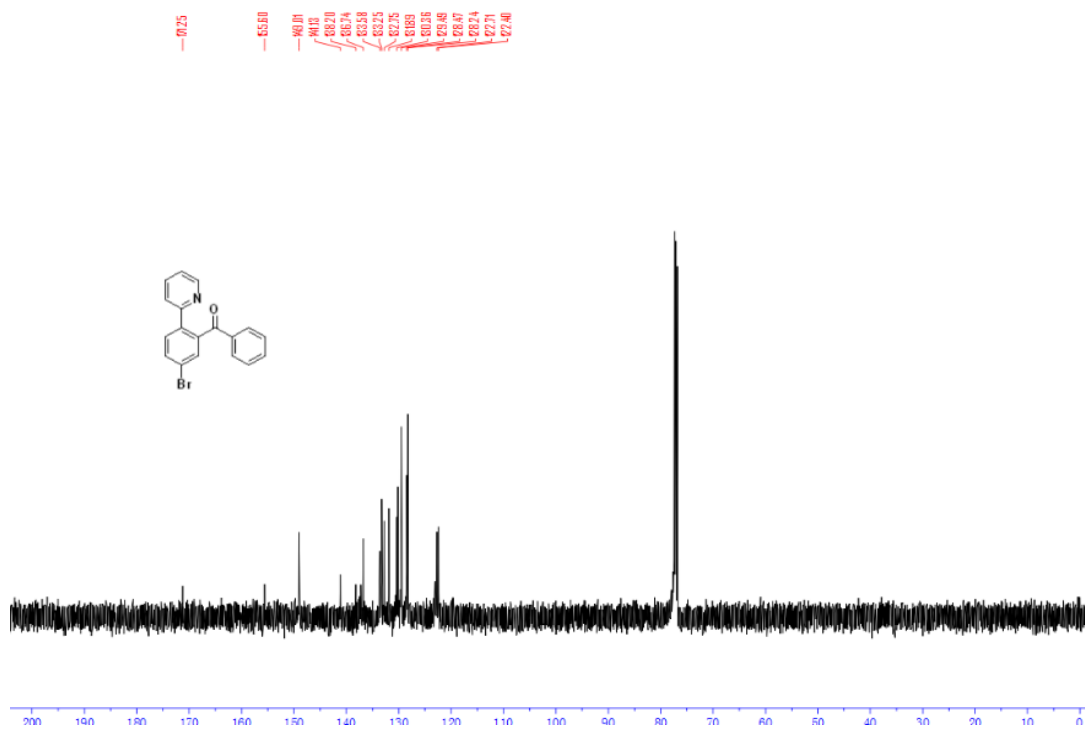
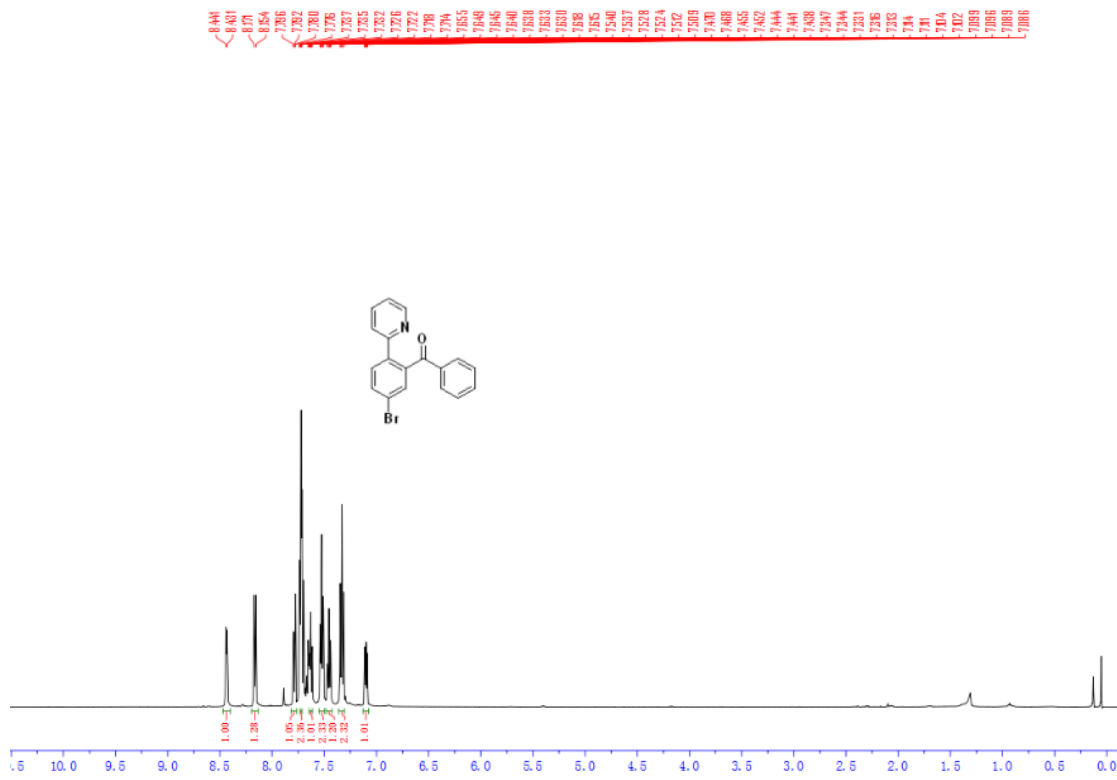


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8.949
7.887
7.861
7.846
7.834
7.826
7.819
7.815
7.571
7.532
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7.482
7.468
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7.088
7.078

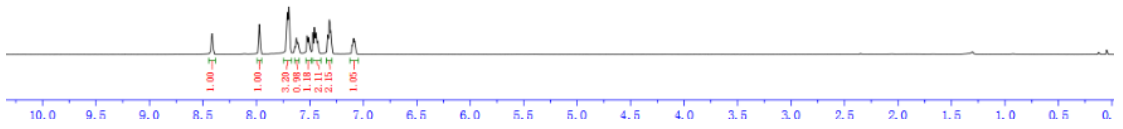
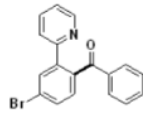


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140.90
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134.84
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129.07
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127.38
127.37

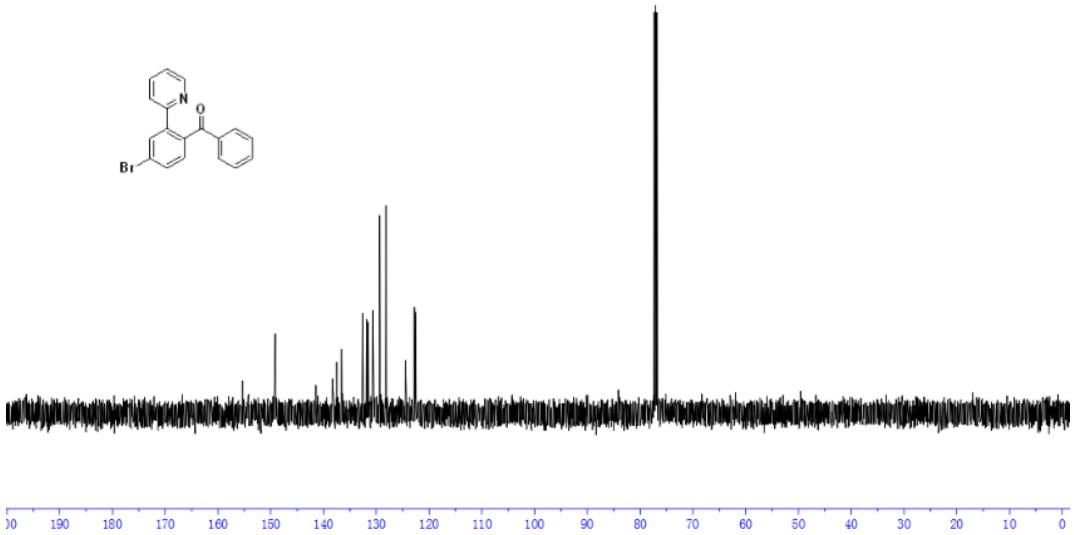
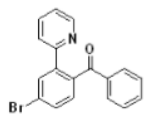


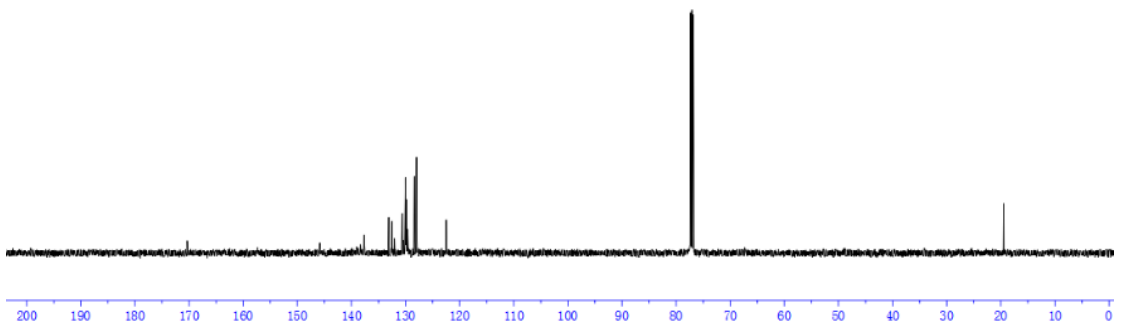
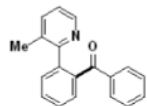
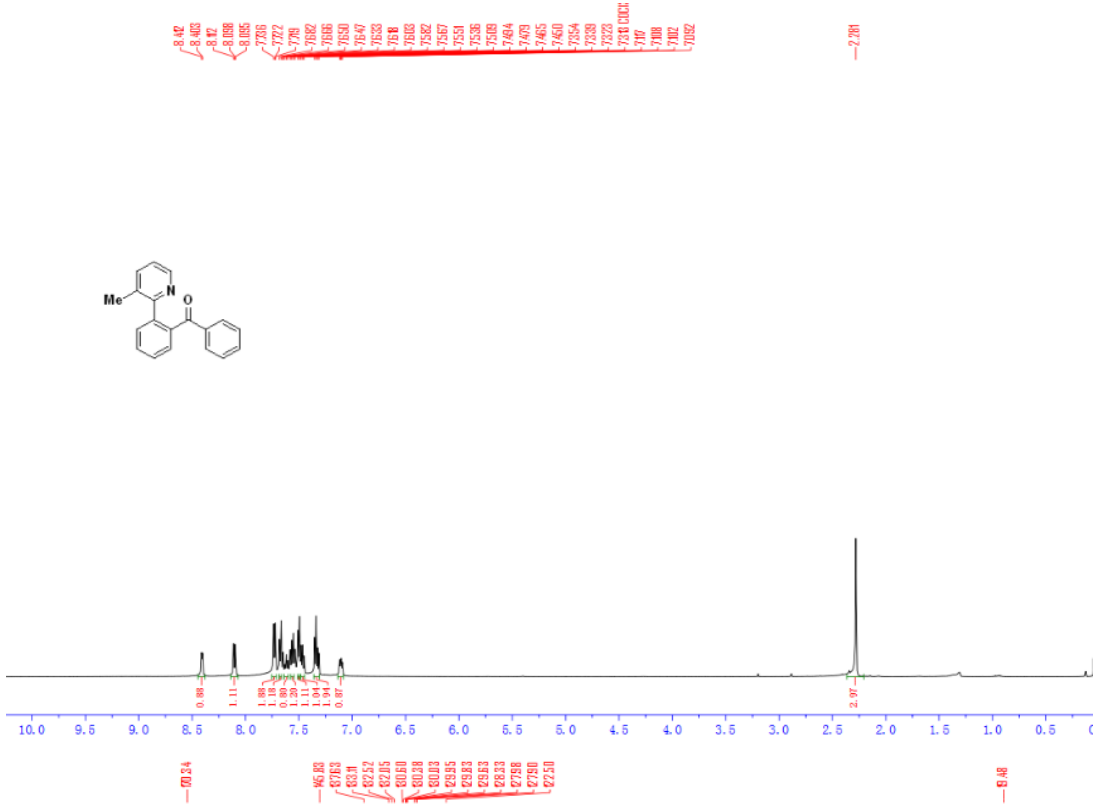
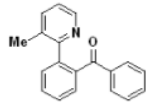


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7.965
7.775
7.770
7.762
7.759
7.754
7.753
7.694
7.693
7.691
7.690
7.688
7.684
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7.680
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7.673
7.672

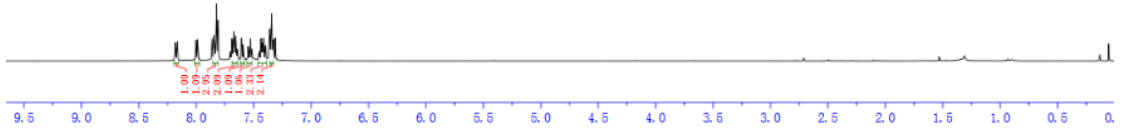
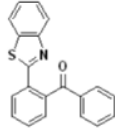


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149.45
148.27
147.50
146.60
142.62
131.79
131.55
130.67
129.42
128.89
128.07
124.47
122.78
122.51

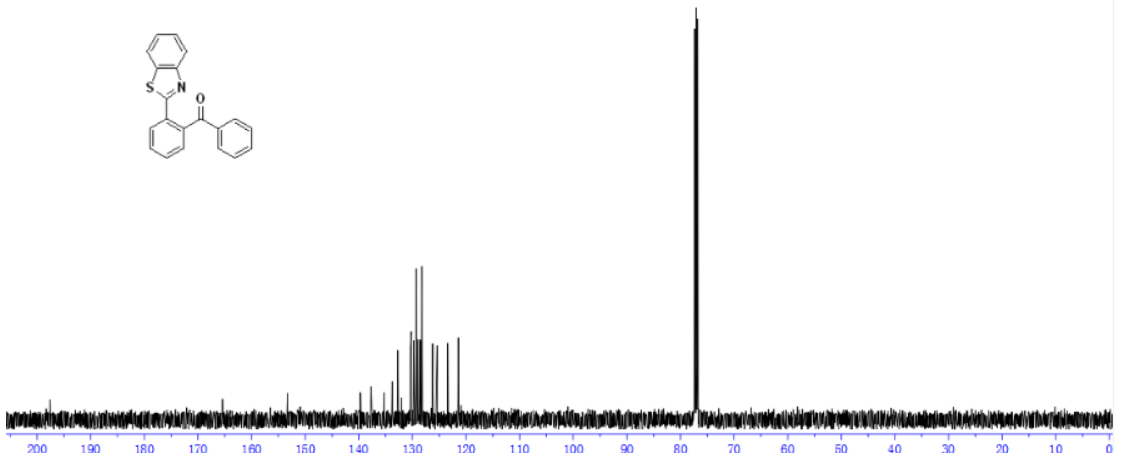
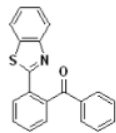




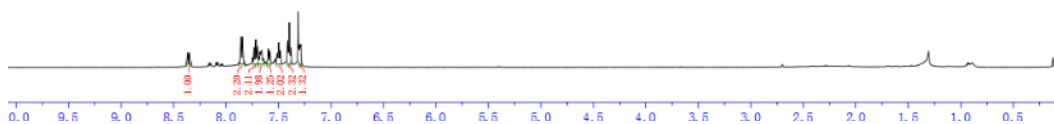
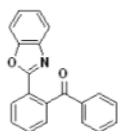
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8.001
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7.808
7.803
7.800
7.859
7.856
7.807
7.804
7.802
7.800
7.847
7.821
7.815
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7.850
7.848
7.844
7.823



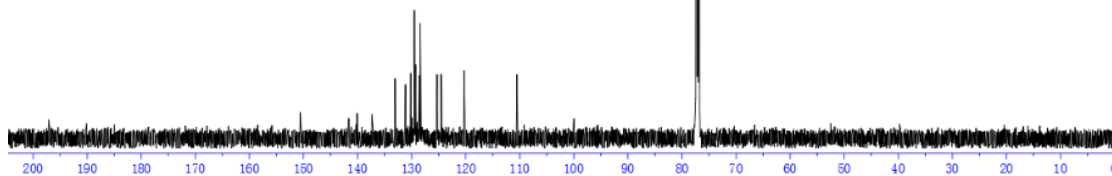
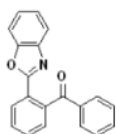
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59.74
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65.77
93.78
92.78
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13.03
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68.82
77.93
77.93
77.93
77.93
29.62
29.62



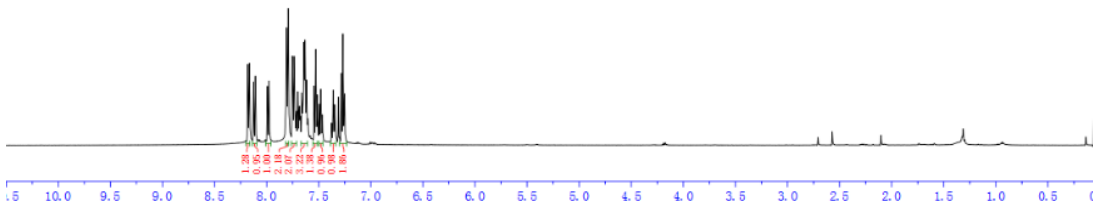
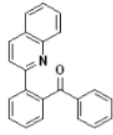
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7.688
7.686
7.677
7.670
7.667
7.653
7.658
7.651
7.646
7.646
7.636
7.635
7.581
7.566
7.553
7.550
7.498
7.494
7.494
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7.287



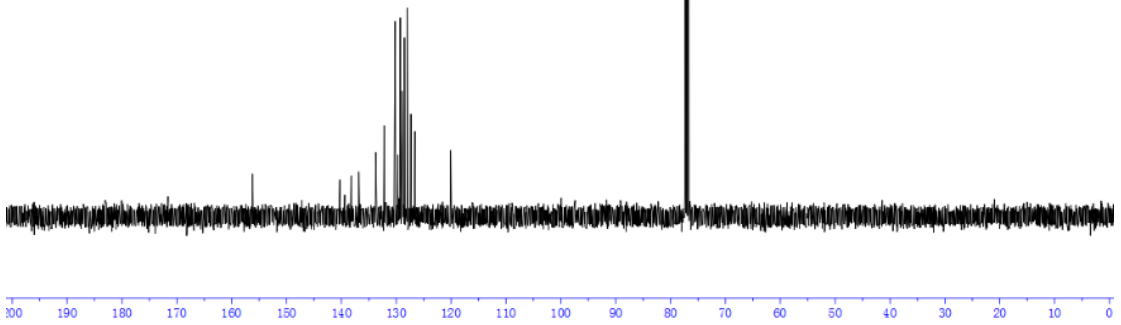
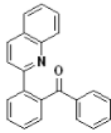
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8.098



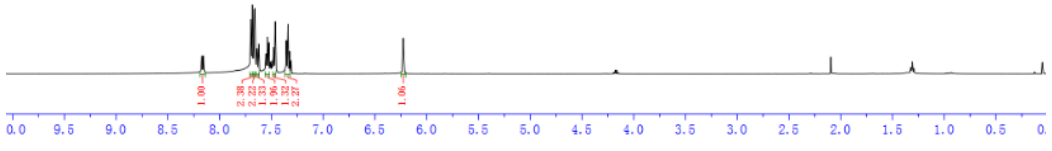
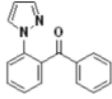
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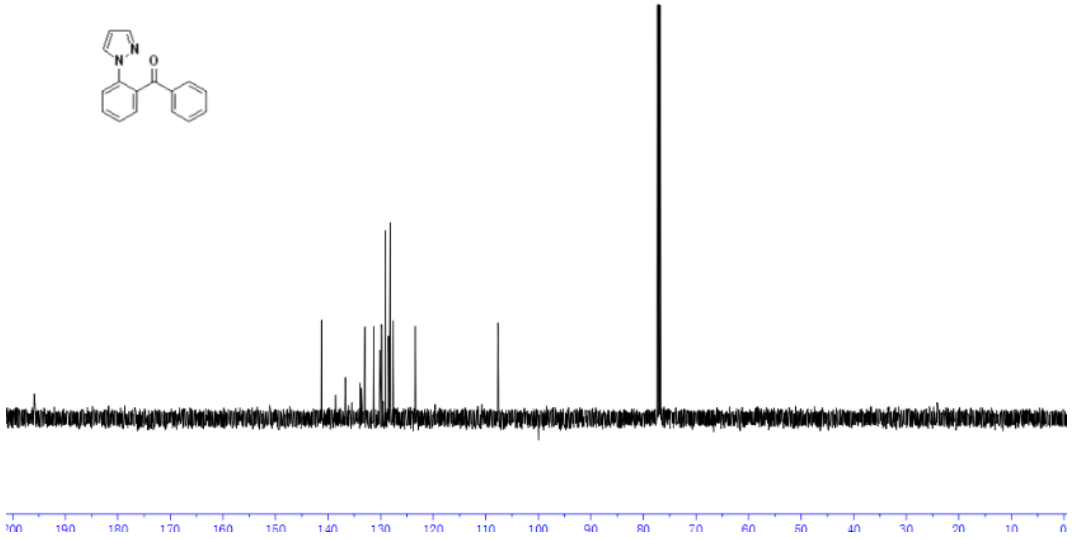
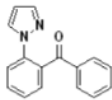
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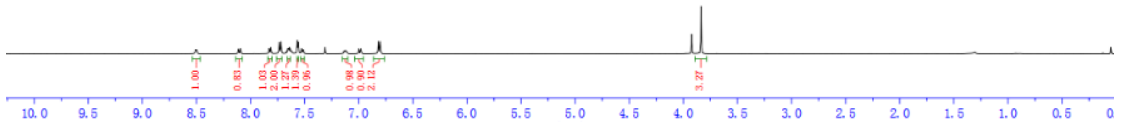
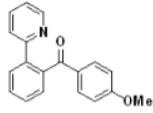
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6.226
6.222



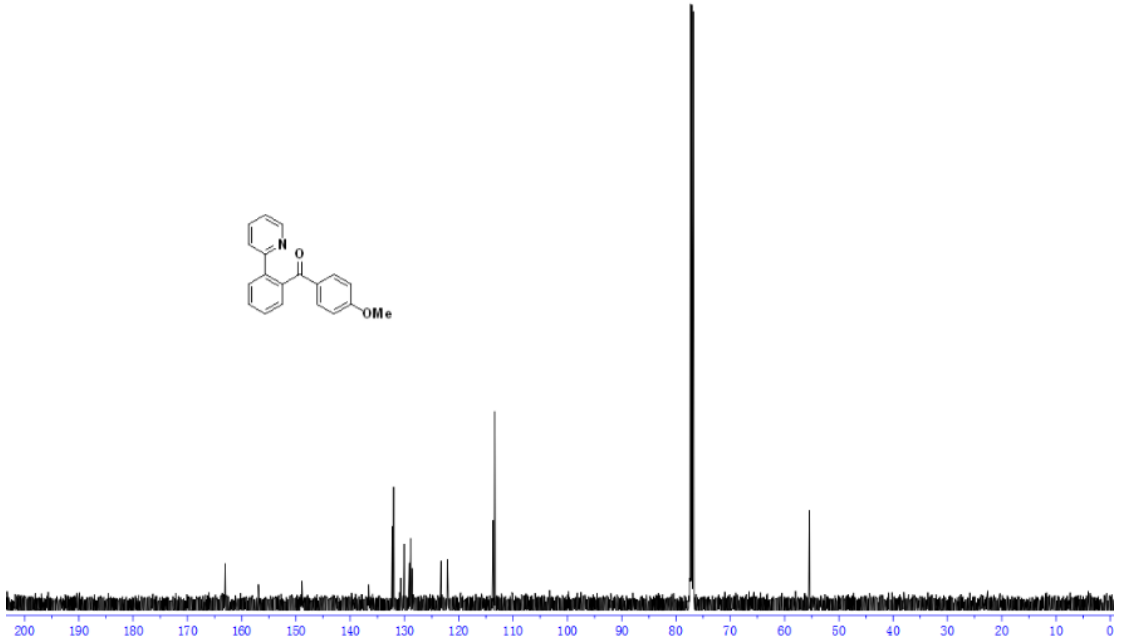
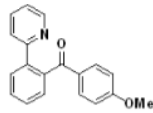
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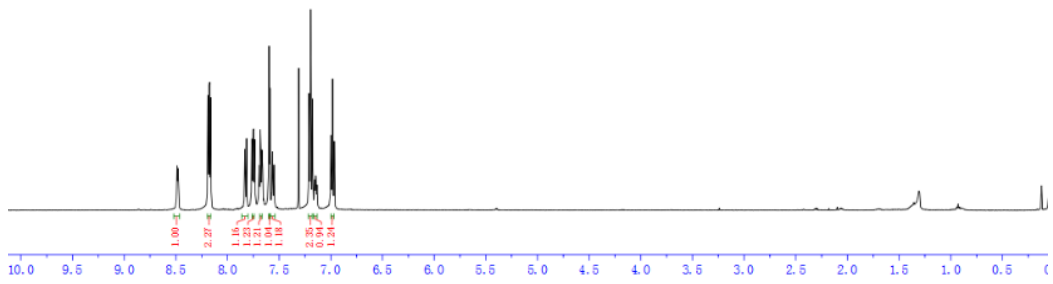
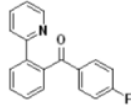
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 7.625
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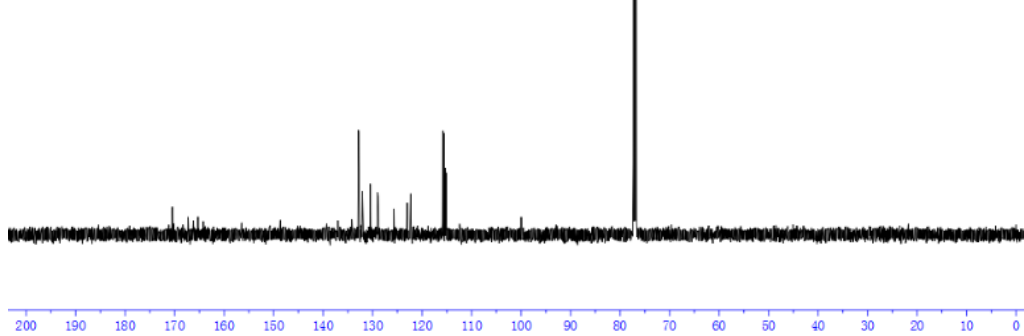
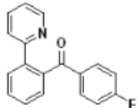
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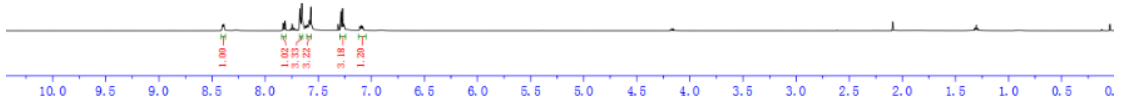
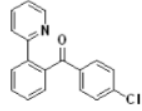
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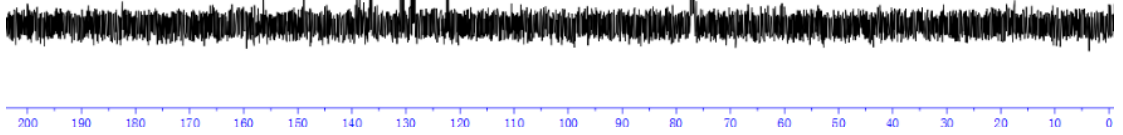
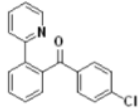
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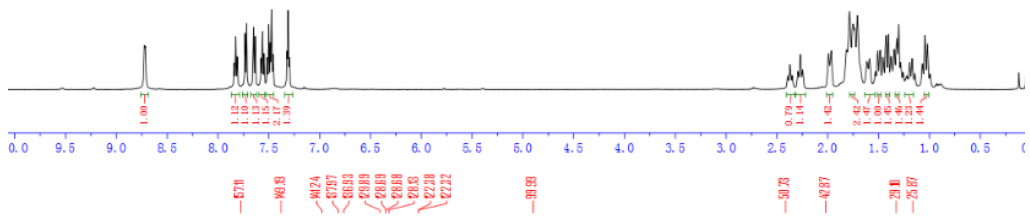
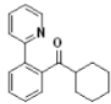
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7.568
7.287
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7.270
7.257
7.107
7.087
7.087
7.087



156.38
148.37
139.11
138.58
138.14
138.40
130.71
130.63
130.02
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129.55
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127.27



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578, 163.9, 142.4, 139.7, 135.3, 133.9, 133.9, 128.8, 122.3, 122.2, 81.99

