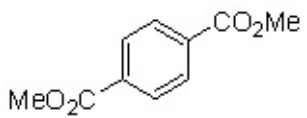
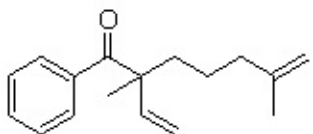
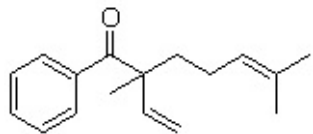


aryl ketone after distillation 29.24 mg
Dimethyl terephthalate (IS) 17.48 mg
1H NMR in CDCl₃, 500 MHz



8.12
7.87
7.87
7.86
7.47
7.45
7.40
7.38
7.37
7.28

6.22
6.20
6.18
6.16

5.27
5.25
5.21
5.04

4.67
4.62

3.96

1.96
1.95
1.79
1.64
1.62
1.47
1.40
1.39

Dimethyl terephthalate mw 194.18
Aryl ketone mw 242.362
 $(17.48/194.18) \times 1.34 \times 242.362 = 29.24$ mg
 $29.24/32.32 = 90.4\%$
Based on combined isomers

