Propose a mechanism for each step:

Br—[structure with Me, OH, Me, Ph] →

1) *t*-BuOK (2.0 eq), DMSO
   30 to 40 °C, 85%

2) HBr aq, THF
   0 °C, 85%

1) *m*CPBA (1.5 eq), NaHCO₃
   CH₂Cl₂, 0 °C, 85%

2) ZnBr₂ (4.7 eq), benzene
   reflux, 80%

→ [cyclohexene product with Me, Ph, C(=O), Br]