

Supporting information

Characteristics of graphene growth at different temperatures from the benzene ring structure in coal tar

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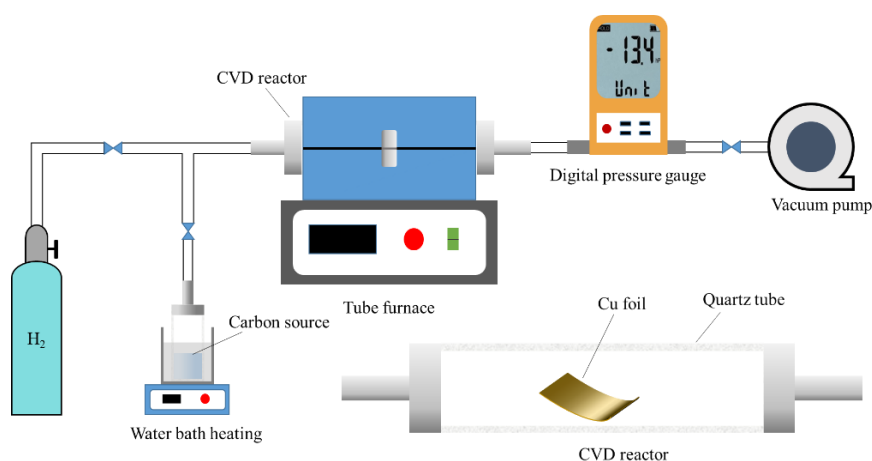


Figure S1: Experimental equipment

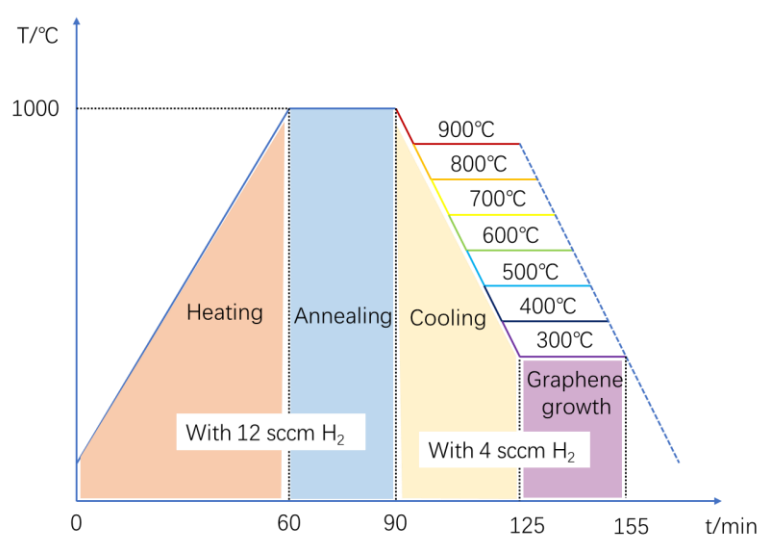
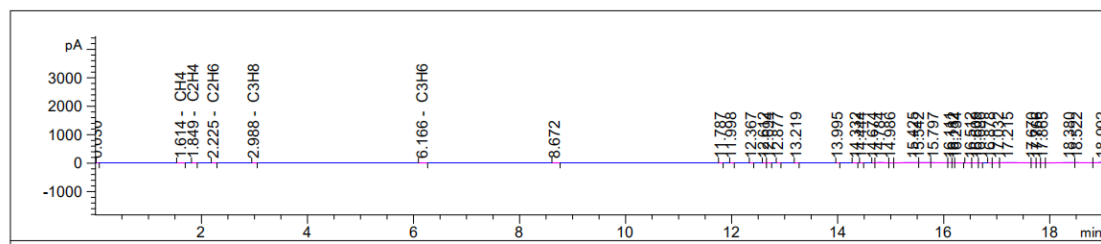
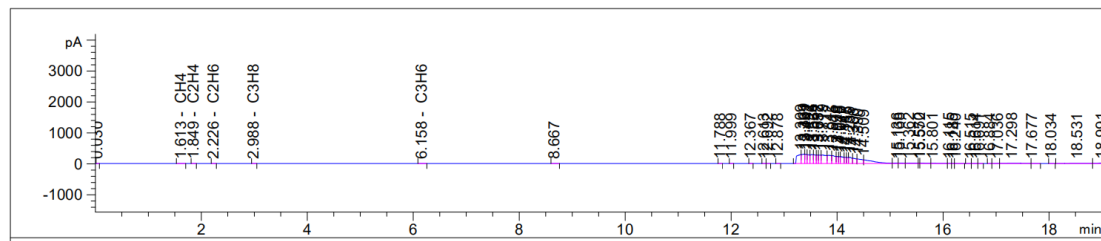


Figure S2: Details of graphene low-temperature growth experiments

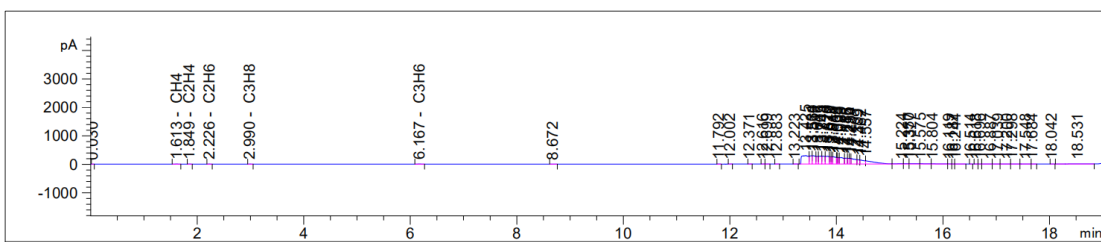
300°C



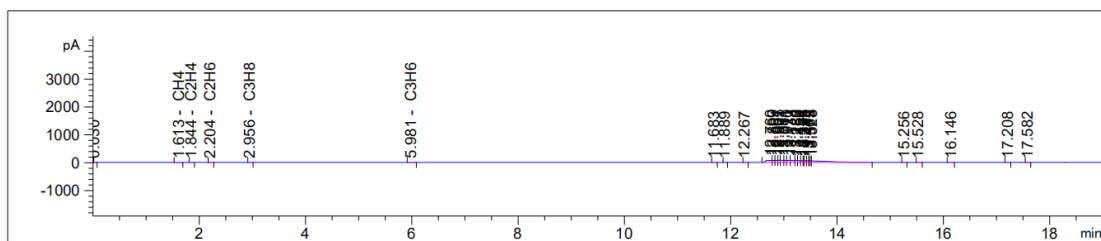
400°C



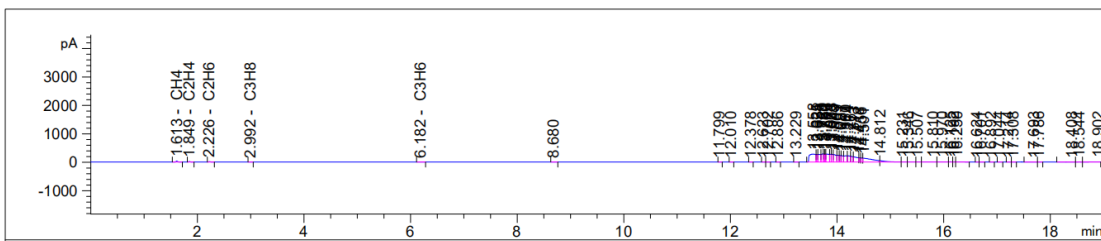
500°C



600°C



700°C



800°C

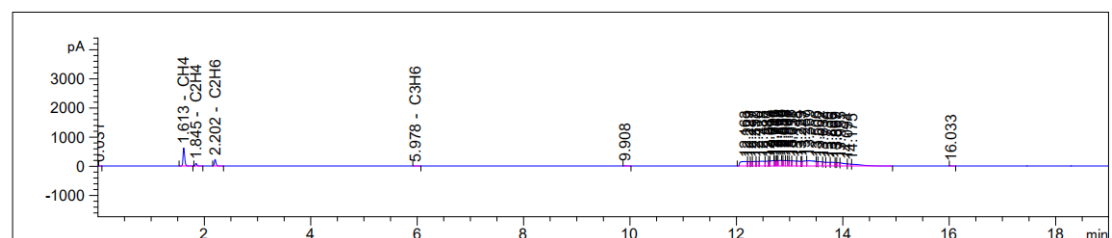
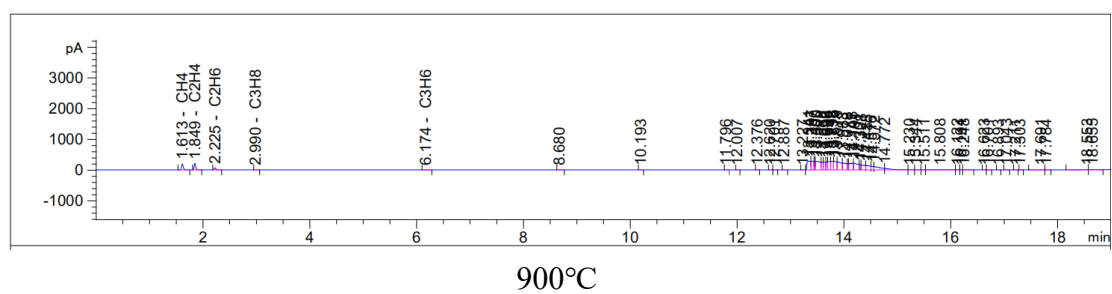


Figure S3: Gas chromatogram examples of benzene ring chemical vapor deposition on copper foil at different temperatures (300~900°C)