Temperature (C) 200 400 600 800 1000 1200 1400 Mixed volatily 20 (1300 40 60 **CDP from Susc model** Depth (km) Thermal LAB from fig3 of pollac and chapman 1977 Typical geotherm in the continental crust computed Q0 = 56.5 mWm-2 Qm = 30 mW m-2 100 hr = 10 km, and k = 3.0 W m-1 K-1. Temperature (580 C) Computed geotherms based on CDP and LAB 120 Pollack 1997 geotherms for different Q0 140 (0 0.8 0.6 0.6 0.4 0.4 LAB CDP The numbers is distance(km) from beginning of the profile Z: Zagros S: Sanandaj-Sirjan Zone B : Bijar Basin 180 0.2 C: Central Iran

SC: South Caspian Basin

100 150 200

Depth (km)

Thermal conductivity(W/m/K)

200