Supplementary information

Evolution of local conductance pathways in a single-molecule junction studied by three-dimensional dynamic probe method

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Fig. S1 **Schematic diagram showing determination of the adsorption angle.** Conformations of a BDT molecule and the $YZ$ and $XZ$ cross sections of the conductance map. $\varphi$ represents the angle between the molecule and the substrate considering the direction of the molecule. Since the direction of the molecule is different from the $X$- and $Y$-axes in general, the apparent angle obtained from the $YZ$ cross section is larger than the actual angle, which should be corrected using the relationship between the $YZ$ and $XZ$ cross sections with consideration of the angle of the molecule in the $XY$ plane.