**Supplementary Figure 1.** Representative image of the plaque shift in High lipid Burden lesion

A and C) NIRS map presents the maximal lipid cored burden index values per 4mm (LCBI4mm) pre and post stent implantation. B and D) The picture presents plaque volume (PV), and remodeling index (RI) pre and post stent implantation. The green area present lumen volume. The space between green line and yellow line presents PV. The space below the yellow line presents EEM volume.

**Supplementary Figure 2.** Representative image of the plaque shift in low lipid burden lesion

A and C) NIRS map presents the maximal lipid cored burden index values per 4mm (LCBI4mm) pre and post stent implantation. B and D) The picture presents plaque volume (PV), and remodeling index (RI) pre and post stent implantation. The green area present lumen volume. The space between green line and yellow line presents PV. The space below the yellow line presents EEM volume.

**Supplementary Table 1**. NIRS-IVUS assessment of 4mm segment located proximally to the implanted stent

**Supplementary Table 2**. NIRS-IVUS assessment of 4mm segment located distally to the implanted stent