

Response to E05-000377-1

6 Please explain how the output power is controlled for it appears that depending upon the power class that different output powers are possible.

1. No external power amplifier (PA) is implemented in the design of DUTs (F8Z901-TX and F8Z901-RX). With the internal (PA) in the Bluetooth chip, maximum of only +6dBm is physically possible. Since Bluetooth specification for Class 1 RF transmit power range is 0 to +20 dBm, the device is rated at Class 2, as the product design intended.

2. The firmware controls the RF transmit power with level control from on-chip 6-bit DAC and maintains the transmit power to be within the Bluetooth specification for class 2 RF transmit power range (-6 to +4 dBm).