Project name: 4_BARAC_0203_BTT

FCC
Federal Communications Commission

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RF exposure requirements - FCC ID: QSHEL2604

Dear Application Examiner,

The maximum measured power output is 8,36 mW (9,22 dBm), the maximum antenna gain is 2,1 dBi = numeric gain 1,62 (see also FCC test report)

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm². The distance from the EUT's transmitting antenna where the exposure level reaches the maximum permitted level is calculated using the general equation:

$$S = P*G / 4\pi R^2$$

S_{max} = 1mW/cm², P = 8,36 mW, linear power gain relative to the isotropic radiator = 2,1 dBi = 1,62 (numeric gain), R = distance in cm

Solving for R, the 1mW/cm² limit is reached in a distance of 1,04 cm to the transmitting antenna.

After installation of Baracoda "BC2604 Barcode scanner with Bluetooth support'", the minimum distance of 1,04 cm must always be ensured. During normal use of this device it is impossible that the user gets closer to the transmitting antenna.

Please contact us if you have any additional questions.

Best Regards

7layers AG