

FCC
Federal Communications Commission

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RF exposure requirements - FCC ID QSHBCM2604

Dear Application Examiner,

The maximum measured power output is 20,14 mW (13,04 dBm), the maximum antenna gain is 2,14 dBi = numeric gain 1,64 (see also FCC test report - Exhibit B)

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:

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

$S_{\max} = 1\text{mW/cm}^2$, $P = 20,14\text{ mW}$, linear power gain relative to the isotropic radiator = 2,14 dBi = 1,64 (numeric gain), R = distance in cm

Solving for R , the 1mW/cm² limit is reached in a distance of 1,4979 cm to the transmitting antenna.

The module has to be integrated in a way that the minimum distance of 1,4979 cm is ensured so a statement in the users manual is not necessary.

Please contact us if you have any additional questions.

Best Regards

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