



RF EXPOSURE ANALYSIS

<u>Product</u>	<u>FCC ID</u>
BGM13P22 BT5.0 Module	QOQBGM13P

Analysis for FCC, portable use

Standalone SAR test exclusion considerations are defined in the KDB 447498 Chapter 4.3.1. 1-g head or body SAR exclusion threshold is defined with formula

$$[(\text{max. power of channel, including tun-up tolerance, mW}) / (\text{min. separation distance, mm.})] * (\sqrt{f(\text{GHz})}) \leq 3$$

For BGM13P22 the maximum peak TX power including tolerances is 15.8 mW and maximum TX frequency is 2.48 GHz. Using separation distance of 9 mm with the formula above results

$$(15.8\text{mW}/9\text{mm}) * \text{SQRT}(2.48) = 2.76 < 3$$

Thus BGM13P22 meets the SAR exclusion criteria with 9 mm separation and SAR evaluation is not needed.

Analysis for FCC, mobile use

$$S = \text{EIRP} / (4 * \text{PI} * \text{R}^2) = 25.9\text{mW} / (4 * \text{PI} * 20^2) = 0.00515\text{mW}/\text{cm}^2$$

E.I.R.P (mW)	Evaluation distance R (cm)	Power density S at prediction frequency (mW/cm ²)	MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	Verdict
25.9	20	0.00515	1	PASS