RF Exposure evaluation for mobile use

Model: **BLE Device ZEI°**

FCC ID: **2AK5I-ZEIV1** FCC ID: **22415-ZEIV1**

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	*Power density (mW/cm²)*
300 – 1,500	f/1500
1,500 – 100,000	1.0

Equation OET bulletin 65, page 18, edition 97-01: $S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$

Where:

S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Band	Frequency (MHz)	Antenna Gain (dBi)	Output Power -conducted- (dBm)	Output Power -conducted- (mW)	IC Limit (mW/cm²)	FCC Limit (mW/cm²)	Power Density value (mW/cm²)
Bluetooth	2480	0	-0.10	0.41	0.5469	1.0000	**0.0001**

Margin to FCC Limit (mW/cm²)	Margin to IC Limit (mW/cm²)
0.9999	**0.5468**

Yours sincerely,

Dirk Bratsch