

## RF exposure Estimation

### RF Exposure Compliance Requirement

Test Method: FCC part 15 section 1.1307 (b1)  
OET Bulletin 65, Edition 01-01  
FCC ID: 2AD6LGC032435

**Results: PASS**

Systems operation under the provision of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guideline,

The EUT is considered as a mobile device according to OET Bulletin 65, Edition 01-01, therefore distance to human body of min. 20cm is determined.

Frequency Band:	5733-5866MHz
Device Category:	<input type="checkbox"/> Portable (< 20cm separation ) <input type="checkbox"/> Fixed ( >20cm separation ) <input checked="" type="checkbox"/> Others :
Exposure Classification:	<input type="checkbox"/> Occupational/ Controlled exposure <input checked="" type="checkbox"/> General Population / Uncontrolled exposure
Max. Output Power	1.7mW (90.54dBuV/m)*
Evaluation Applied:	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

Remark: “\*” According to the follow transmitter output power (Pt) formula:

$$Pt = (E \times d)^2 / (30 \times gt)$$

Pt=transmitter output power in watts

gt=numeric gain of the transmitting antenna (unitless)

E=electric field strength in V/m

d=measurement distance in meters (m)

$$Emax = 90.54dBuV/m = 0.034V/m, d=3m, gt=2$$

$$Pt = (E \times d)^2 / (30 \times gt) = 0.0017W = 1.7mW$$

MPE calculation:

The radiated (EIRP) = 1.7mW

The power density at 20cm from the antenna:  $= \text{EIRP} / 4\pi R^2$   
 $= 0.00034\text{mW} / \text{cm}^2 < 1.0\text{mW}/\text{cm}^2$

**Limits for General Population/Uncontrolled Exposure [OET Bulletin 65, Edition 01-01]:**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

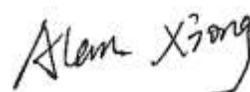
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