

# FCC ID: 2ASCB-DD021NLG

#### **Applied procedures / limit**

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

# Limits for Occupational / Controlled Exposure

Note: *f* is frequency in MHz

\* = Power density limit is applicable at frequencies greater than 100 MHz

#### Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	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)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

\* = Plane-wave equivalent power density



### MPE PREDICTION

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01  $S=PG/4\pi R^2$ 

Where: S = power density

P = power input to 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, R=0.2m

## **TEST RESULTS**

Mode	Tune up Produce	Maximum peak output	Output power to antenna	Antenna Gain	Power Density (S)	Limit (mW/ cm2)	Result
	power	power (dbm)	(11100)	(numenc)	(mvv/ cmz)		
2.4G WIFI	13±1	14	25.119	2.03	0.010144	1	Pass
				(3.07dBi)			
5.1G WIFI	10±1	11	12.589	2.04	0.005109	1	Pass
				(3.1dBi)			
5.8G WIFI	10±1	11	12.589	2.03	0.005084	1	Pass
				(3.08dBi)			
BLE	0±1	1	1.259	2.03	0.000508	1	Pass
				(3.07dBi)			
ВТ	0±1	1	1.259	2.03	0.000508	1	Pass
				(3.07dBi)			

Conclusion:

For the all Power Density≤ 1.0, compliance with FCC's RF Exposure

The Product unsupported at the same time to Transmitting.