

FCC ID: 2BEF7-KB-BC55

of 2

Page

RF Exposure Evaluation

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) | |
|--------------------------|-------------------------------------|--|--|--|--|
| A LE LING O LE | (A) Limits | for Occupational/Controlled I | Exposures | A THE OF A A | |
| 0.3–3.0 | 614 | 1,63 | *(100) | AT LAT 16 CON | |
| 3.0–30 | 1842/f | 4.89/f | *(900/f²) | CONTRACTION OF CONTRACT | |
| 30–300 | 61.4 | 0.163 | 5 ¹¹¹ 1.0 5 ¹⁰ 5 ¹¹ | NO CO 616 STIME | |
| 300–1500 | The solution | AND O CHE LINE O | f/300 | STAR 6 C TE | |
| 1500–100,000 | THE REAL MADE OF THE | Listen a contraction of the strength | of the 5th of d | A A A A A A A A A A A A A A A A A A A | |
| C C C LE LE THE C | (B) Limits for | General Population/Uncontro | lled Exposure | of the testing the of | |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 5 | |
| 1.34–30 | 824/f | 2.19/f *(180/f ²) | | STAR 30 STAR | |
| 30–300 | 27.5 | 0.073 | 0.2 | A 30 6 A | |
| 300–1500 | of the the time of | and the second s | o f/1500 | 6 A 30 C | |
| 1500–100,000 | a a chi ta the | | 5 NO 1.0 10 10 | 6 ° 30 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |

Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

Friis transmission formula: Pd = (Pout*G)/(4*pi*r²)

Where

Pd = power density in mW/cm², Pout = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, and highest channel individually.



Shenzhen QC Testing Laboratory Co., Ltd.

Test Result of RF Exposure Evaluation

Antenna gain=0.94dBi

For BT

| Test Frequency (MHz) | Minimum Separation Distance (cm) | Output Power (dBm) | Target power (dBm) | Target power (mW) | Antenna Gain (Numeric) | Power Density Limit (mW/cm ²) | Power Density At 20 cm (mW/cm ²) | Test Results |
|----------------------------|---|--------------------------|--------------------------|-------------------------|------------------------------|--|---|-----------------|
| 2402 | 20.00 | 2.4 | 2±1 | 1.995 | 1,24 | | 0.0005 | Pass |
| 2441 | 20.00 | 2.52 | 2±1 | 1.995 | 1.24 | Str P C | 0.0005 | Pass |
| 2480 | 20.00 | 2.27 | 2±1 | 1.995 | 1.24 | The Armento | 0.0005 | Pass |

For BLE

| Test Frequency (MHz) | Minimum Separation Distance (cm) | Output Power (dBm) | Target power (dBm) | Target power (mW) | Antenna Gain (Numeric) | Power Density Limit (mW/cm ²) | Power Density At 20 cm (mW/cm ²) | Test Results |
|----------------------------|---|--------------------------|--------------------------|-------------------------|------------------------------|--|---|-----------------|
| 2402 | 20.00 | 1.25 | 1#1 | 1.585 | 1.24 | | 0.0004 | Pass |
| 2440 | 20.00 | 1.45 | ° 1±₽° | 1.585 | 1.24 | A BUT O | 0.0004 | Pass |
| 2480 | 20.00 | 1.12 | 1±1 | 1.585 | 1.24 | a the star | 0.0004 | Pass |

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.

2 of 2

Page