

RF EXPOSURE REPORT

FCC ID: 2AC23-DCT12
IC: 12290A-DCT12

Applicant's name : Hui Zhou Gaoshengda Technology Co., LTD
Address : NO.75 Zhongkai Development Area, Huizhou,
Guangdong,China
Manufacturer : Hui Zhou Gaoshengda Technology Co., LTD

Equipment : WIFI+BT Module
Trade Mark : GSD
Model : DCT12R2511
Ratings : I/P: DC 5V

Testing Laboratory : DongGuan ShuoXin Electronic Technology Co., Ltd.
Address : Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China
According : FCC Guidelines for Human Exposure IEEE C95.1 &
FCC Part 2.1091

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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

Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain(dBi) | Note |
|------|-------|------------|--------------|-----------|-----------|------|
| 1 | N/A | N/A | PCB | N/A | 4 | |
| 2 | N/A | N/A | PCB | N/A | 4 | |

TEST RESULTS

| | | | |
|----------------|----------------|--------------------|------------|
| EUT : | WIFI+BT Module | Model Name : | DCT12R2511 |
| Temperature : | 25 °C | Relative Humidity: | 55 % |
| Test Voltage : | DC 5V | | |

2.4G WIFI

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3 | 1.9953 | 25.49 | 353.9973 | 0.14059 | 1 | Complies |

5G Band UNII-1

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 4 | 2.5119 | 15.73 | 37.4111 | 0.01870 | 1 | Complies |

5G Band UNII-3

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 4 | 2.5119 | 17.91 | 61.8016 | 0.03090 | 1 | Complies |

BT

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3 | 1.9953 | 9.693 | 9.3175 | 0.00370 | 1 | Complies |

LE

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3 | 1.9953 | 5.131 | 3.2591 | 0.00129 | 1 | Complies |

For 2.4G+5G simultaneous transmission MPE:

$$0.00129+0.00370+0.14059+0.03090=0.17648$$

Note: the calculated distance is 20 cm.