

## Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

Job No.: 200624005GZU FCC ID: 2AVK2-ATS58-2020

## **RF Exposure Compliance Requirement**

Calculation formula:

- E(V/m) = (30\*P\*G) 0.5/d
- E = Electric Field (V/m)
- P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between EUT and antenna (m)

Remark:  $E(V/m)=10^{X (dBUV/m)/20} \times 10^{-6}$ 

 $P=(E^*d)^2/30G$ 

in the formula above, d=3m, field strength= 90.4dBuV/m (max described by client), G=1.70 (Antenna gain=2.3dBi) so P=0.194mW

The worst case test separation distance is 5mm.

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz.

In KDB 447498 D01 v06: 4.3.1 Standalone SAR test exclusion considerations:

The SAR Test Exclusion Threshold is calculated from:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$ [Vf(GHz)]  $\leq$  3.0 for 1-g SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 17
- The result is rounded to one decimal place for comparison

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

| Transmit Frequency (GHz) | Output power<br>(mW) | SAR Test Exclusion<br>Threshold (mW) |
|--------------------------|----------------------|--------------------------------------|
| 5.860                    | 0.194                | 6.20                                 |

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v05, the SAR report is not required.

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China