

# RF EXPOSURE FCC ID :XNK-GS15

KDB447498 was used as the guidance.

#### SAR test exclusion considerations

# <u>Step.1</u> For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion threshold are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR

- Step.2 For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following
- Step.2-1 {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)· (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- Step.2-2 {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)·10]} mW, for > 1500 MHz and  $\leq$  6 GHz

#### where

f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.



## SAR test exclusion considerations

- Frequency Range: <u>2 405.377</u> MHz ~ <u>2 475.009</u> MHz

- Measured RF Maximum Output Power : 3.00 dBm

- Target Power & Tolerance 3.00 dBm & ± 1.00 dB

( Maximum : <u>4.00</u> dBm & Minimum : <u>2.00</u> dBm )

- Maximum Output Power for the Calculation: 4.00 dBm

The EUT will only be used with a separation of 5 millimeters or lesser between the antenna and the body of the The MPE calculation for this exposure is shown below.

## Power Density at the specific separation

### **RF Exposure Compliance Issue**

Therefore, EUT is not required the SAR Evaluation.