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1   RF Exposure Compliance Requirement

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. The worst case test separation distance is **5mm.**

2   SAR Evaluation

2.1   RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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 test exclusions are applicable only when the minimum test separation distance is ≤ 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 is applied to determine SAR test exclusion

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2.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 0.002 dBm in Lowest channel(2.402 GHz);

The best case gain of the antenna is 1 dBi.

EIRP= 0.002 dBm + (1 dBi) = 1.002 dBm

1.002 dBm logarithmic terms convert to numeric result is nearly 1.26 mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

[√f(GHz)]

General RF Exposure = (1.26 mW / 5 mm) x √2.402 GHz = 0.390 ①

SAR requirement:

S= 3.0   ② ;

① < ②.

So the SAR report is not required.