

FCC ID: RCT-ZM00RC01

# **RF Exposure Evaluation**

According to KDB 447498 and part 2.1093, 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 Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

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:

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

f<sub>(GHz)</sub> 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

## **Manufacturing tolerance**

GFSK							
Channel	Channel 00	Channel 39	Channel 78				
Target (dBm)	2.0	1.0	0				
Tolerance ±(dB)	1.0	1.0	1.0				
π/4DQPSK							
Channel	Channel 00	Channel 39	Channel 78				
Target (dBm)	0	-1.0	-2.0				
Tolerance ±(dB)	1.0	1.0	1.0				
8DPSK							
Channel	Channel 00	Channel 39	Channel 78				
Target (dBm)	-1.0	-2.0	-3.0				
Tolerance ±(dB)	1.0	1.0	1.0				

## **Evaluation Result**

#### For Bluetooth

Max	Max		6.8		
Power(including tune-up tolerance)	Power(including tune-up tolerance)	Frequency (MHz)	Min. distance(mm)	Calc. thresholds	limit
(dBm)	(mW)				
3.0	1.9953	2402	5	0.6185	3.0

## Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06, No SAR is required.

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