

## 1. Compliance with KDB 447409 SAR Exclusion

According to KDB 447498 D01 v05r02 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$$

The tune-up power is 3.37 dBm +/- 0dB, therefore the highest tune-up power is

3.37 dBm	(2.1727 mW)	@ 2405 MHz
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When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$(\text{2.1727mW} / \text{5mm}) * (\text{2.405GHz}^{0.5}) = \text{0.225}$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.225 < 3.0$$

**Conclusion: No SAR required**

## 2. Compliance with KDB447498

### General Information

The scope of the test program was to demonstrate the EUT is unable to transmit in any capacity while the host's radiators are in operation.

This device is a third-party after-market accessory that attaches to Android handsets using the micro USB connector, as described in user's manual.

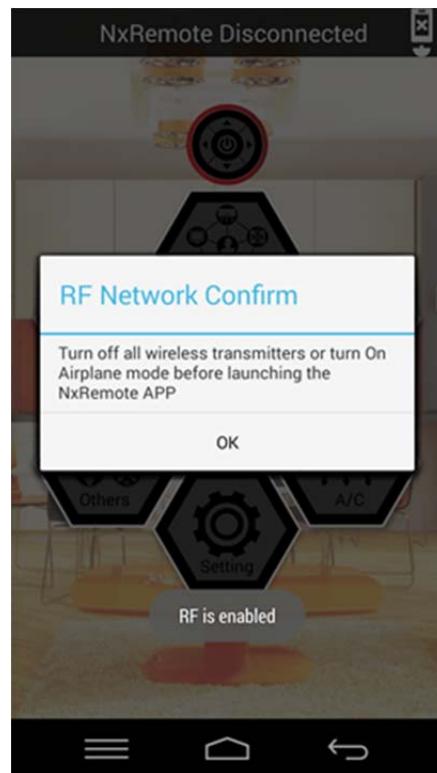
### EUT Operational Condition (RF Function)

Host phone operation status

-  WLAN
-  Bluetooth
-  Mobile data

Connect ZigBee dongle (EUT) to an Android host phone.

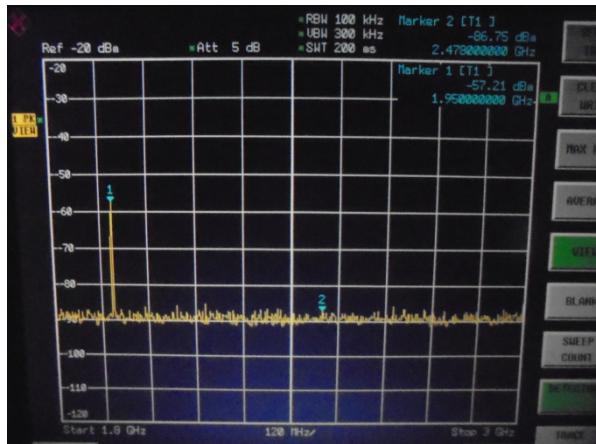
The app (NxRemote) will pop-up a the warning message and then close the app (NxRemote)



## Conclusion

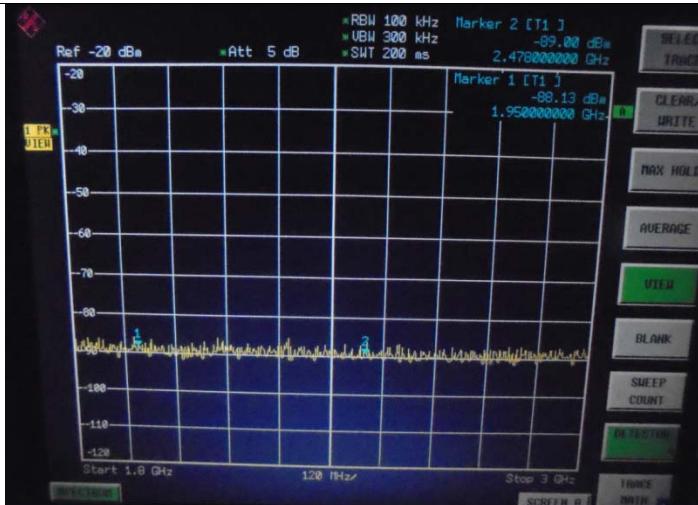
The spectrum analysis was no emission detected on frequency 2.4GHz band.

The ZigBee dongle (EUT) will not transmit.

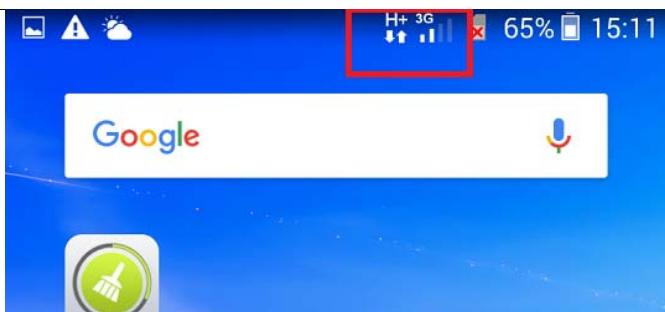


## EUT Operational Condition (Mobile Data)

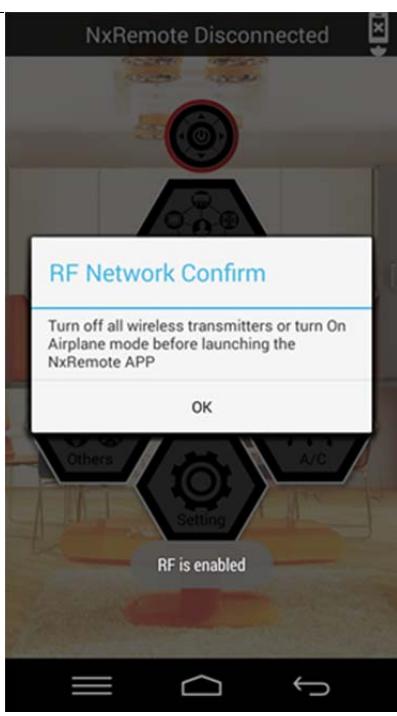
During app is staying on standby in the background. The spectrum analysis was no emission detected on frequency 2.4GHz band.



When user close airplane mode and reconnect to WWAN.



The app (NxRemote) will pop-up a the warning message and then close the app (NxRemote)



## Conclusion

**There is no case where the dongle can transmit simultaneously with a handset radiator.**

### 3. Test Equipment and Calibration Data

Test Equipment and Calibration Data						
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Next Calibration Date
Spectrum Analyzer	R&S	FSP 40	100305	9KHz~40GHz	Feb. 16, 2016	Feb. 15, 2017