

## RF Exposure Requirements

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Product Description: In-Car Entertainment System

Model No.:

A6Y2710SB, A6Y2710S, A6Y2721PB, A6Y2721P, A6Y2721PRB, A6Y2721PR-G,  
A6Y2721PRB-G, A6Y1021P, A6YTY721P, A6YTY710S, A6YVW821P, A6YVW710PB,  
A6YVW721PB, A6YVW721PRB, A6Y1021PR, A6YTY721PR, A6Y1010P

FCC ID: 2AQ49-A6Y2710SB

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

### BT Calculation Result:

Tx frequency range: 2402MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -4.97dBm(0.318mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency: 2402MHz

Result: 0.31

Limit: 3.0

Tx frequency range: 2442MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -3.63dBm(0.434mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency: 2442MHz

Result: 0.31

Limit: 3.0

Tx frequency range: 2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -4.83dBm(0.329 mW)

Tune-Up output power: 0dBm(1mW)

RF channel transmit frequency: 2480MHz

Result: 0.31

Limit: 3.0

The exclusion thresholds is  $0.31 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.

**WIFI Calculation Result:**

Tx frequency range:2412MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:9.47dBm(8.851 mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2412MHz

Result: 2.768

Limit: 3.0

Tx frequency range:2437MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:9.48dBm(8.872mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2437MHz

Result: 2.783

Limit: 3.0

Tx frequency range:2462MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:9.45dBm(8.810mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2462MHz

Result: 2.797

Limit: 3.0

The exclusion thresholds is  $2.797 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.