



2014/12/11

UL Japan, Inc.
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FCC ID: YSKW55

To whom it may concern,

We, UL Japan, Inc., hereby declare that Wireless LAN Module, model : S055WIFI-PCA
(FCC ID: YSKW55) of OLYMPUS IMAGING CORP. is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in FCC Part 2 §2.1093.

KDB 447498D01(v05r02) has the following exclusion for portable devices:

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

$$\frac{[(\text{maximum average output power with tolerance (mW)})/(\text{Minimum separation distance(mm)})] \cdot \sqrt{f \text{ (GHz)}}}{\leq 3.0 \text{ for 1g SAR and } \leq 7.5 \text{ for 10g extremity SAR where}}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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.

This device $f = 2.48$ GHz, distance = 5mm (minimum separation distance: 5 mm was used in the calculation) and the maximum average output power with tolerance was 6 mW

So for this device:

$6 \text{ mW} [\text{maximum average output power with tolerance}] / 5 \text{ mm} [\text{minimum separation distance}] \cdot (\sqrt{2.48}) = 1.9$

*This is less than 3.0, so no SAR is required.

Thank you for your attention to this matter.

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