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RF Exposure Analysis

FCC ID: YRWCRONE

Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498 D01, Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [Vf(GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR

- 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

For the Card Reader One the maximum conducted output power is +3.8dBm (2.4mW) at 2.4GHz

Applying the above data using the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

(2.4mW / 5 mm) x V2.4 GHz = 0.74

(i.e. \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR)

Conclusion

This demonstrates the Card Reader One meets the criteria for 1-g head body and 10-g extremity SAR test exemption.

Yours faithfully,

Stefan Mitov