

RF Exposure Report

Panasonic W-LAN Module

FCC ID: U6Y-M12011

Rev. A

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1. Scope

This document describes the measurements taken for SAR evaluation for the Panasonic W-LAN Module, U6Y-M12011,

2. Radio Power Calculation

Radio output power setting = 5.73dBm

Antenna Gain = 2.21dBi

$$5.73 \text{ dBm} + 2.21 \text{ dBi} = 7.94 \text{ dBm} = 3.58 \text{ mW}$$

Distance from the antenna to the outer surface is 8.4mm.

Referencing the table in Appendix A provided in 447498 D01 General RF Exposure Guidance v06 Sect. 4.3.1, and taking a worse case distance of 5mm from the chart, and the lowest power level between 5200MHz ~ 5800MHz of 6mW the calculated power level of 3.58mW is 4.36 mW lower than the max power level of 6mW allowed at 5mm.

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

3. Exemption Conclusion:

- a) At a power level of 3.58mW the module separation distance can be ≤5mm and is therefore exempt.