

RF Exposure Evaluation

FCC ID: 2AJ8TJD173G-X03

1. Client Information

Applicant : Shen Zhen JoyHong Technology Co., Ltd
Address : Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China
Manufacturer : Shen Zhen JoyHong Technology Co., Ltd
Address : Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China

2. General Description of EUT

EUT Name	:	Digital photo frame	
Models No.	:	JD173G-X03, AWDMPF117F	
Model Difference	:	All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is screen size and appearance color.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		RF Output Power:	802.11b: 8.94dBm 802.11g: 8.43dBm 802.11n (HT20): 7.95dBm
		Antenna Gain:	0.5dBi FPC Antenna
Power Supply	:	DC Voltage supplied from Switching Adapter	
Power Rating	:	AC/DC Adapter (TEKA024-1202000UK) Input: AC 100~240V, 50/60Hz, 0.7A Output: DC 12V, 2.0A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- $$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}}] \leq 3.0 \text{ for 1-g SAR}$$

- $$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
WiFi Mode(802.11b)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.94	8 ± 1	9	7.943	2.467	3.0
2.437	8.52	8 ± 1	9	7.943	2.480	3.0
2.462	8.75	8 ± 1	9	7.943	2.493	3.0
WiFi Mode(802.11g)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.43	8 ± 1	9	7.943	2.467	3.0
2.437	8.24	8 ± 1	9	7.943	2.480	3.0
2.462	8.19	8 ± 1	9	7.943	2.493	3.0
WiFi Mode(802.11n(HT20))						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.95	7 ± 1	8	6.310	1.960	3.0
2.437	7.89	7 ± 1	8	6.310	1.970	3.0
2.462	7.76	7 ± 1	8	6.310	1.980	3.0

So standalone SAR measurements are not required.

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