Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE145234

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RF Exposure Evaluation FCC ID: 2AFRF-CF101

1. Client Information

Applicant : CamFi Limited

Address: Room A1002-1, Venture Building, TsingHua Science Park, No.101

College Road, Tangjiawan, Zhuhai, PRC.

Manufacturer : CamFi Limited

Address : Room A1002-1, Venture Building, TsingHua Science Park, No.101

College Road, Tangjiawan, Zhuhai, PRC.

2. General Description of EUT

EUT Name	:	CamFi Remote Camera Controller					
Models No.		CF101					
Models Difference	:	N/A					
Product Description Power Supply		Operation Frequency: WiFi 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz Number of Channel: WiFi 802.11b/g/n(HT20):11 channels 802.11n(HT40): 7 channels 802.11b: 9.18 dBm Max Peak Output Power: 802.11g: 9.13 dBm 802.11g: 9.13 dBm 802.11g: 9.04 dBm 802.11n (HT20): 9.04 dBm 802.11n (HT40): 9.06 dBm Antenna Gain: 0.9 dBi PIFA Antenna Modulation Type: 802.11b: CCK, QPSK, BPSK					
	19		802.11g: OFDM 802.11n: OFDM cable form Host System.				
Power Rating	÷	DC power by Li-ion battery. DC 5V by USB Cable from PC system. DC 3.7V by Li-ion Battery.					
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.

TB-RF-074-1. 0

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (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:

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

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



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2. Calculation:

Test separation	n: 5mm					
TIME	NIII	Wi	iFi Mode(802.11b)	THE STATE OF	6	THE
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.18	0.9	±0.5	9.290	2.885	3.0
2.437	9.15	0.9	±0.5	9.226	2.880	3.0
2.462	9.17	0.9	±0.5	9.268	2.909	3.0
MARIE		Wi	iFi Mode(802.11g)		20	Will The
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.08	0.9	±0.5	9.078	2.820	3.0
2.437	9.13	0.9	±0.5	9.183	2.867	3.0
2.462	9.09	0.9	±0.5	9.099	2.855	3.0
A LIVE		WiFi I	Mode(802.11n(HT2	20))	11000	- AM
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.02	0.9	±0.5	8.954	2.781	3.0
2.437	8.98	0.9	±0.5	8.872	2.770	3.0
2.462	9.04	0.9	±0.5	8.995	2.823	3.0
		WiFi I	Mode(802.11n(HT4	(0))		
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	9.06	0.9	±0.5	9.036	2.813	3.0
2.437	8.99	0.9	±0.5	8.892	2.776	3.0
2.452	9.05	0.9	±0.5	9.016	2.824	3.0

So standalone SAR measurements are not required.