## Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE144280

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# RF Exposure Evaluation FCC ID: 2AEUS-A04C

#### 1. Client Information

Applicant : Shenzhen Sunshine Technology Development Co.,Ltd

Address: 4/F, block 4, HongHuaLing Industrial Park(zone 2),

Taoyuan street, Xili, Nanshan District, Shenzhen, China

Manufacturer : Shenzhen Sunshine Technology Development Co.,Ltd

**Address**: 4/F, block 4, HongHuaLing Industrial Park(zone 2),

Taoyuan street, Xili, Nanshan District, Shenzhen, China

2. General Description of EUT

<b>EUT Name</b>	:	Action camera				
Models No.		A04C, A04A, A04B				
Model Difference	•	All models are identical in the same PCB layout, interior structure and electrical circuits, the only difference is model name for commercial purpose.				
Product Description		Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)			
		Max Peak Output Power:	802.11b: 9.18 dBm 802.11g: 9.11 dBm 802.11n (HT20): 9.06dBm 802.11n (HT40): 9.07dBm			
		Antenna Gain:	2 dBi (Integral Antenna)			
		Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSk 802.11g: OFDM 802.11n: OFDM			
Power Supply		DC power supplied by AC/DC Adapter DC power by Li-ion Battery				
Power Rating		Input: AC 120V~240V 50/60Hz 0.5A. Output: 5V, 1000mA. DC 3.7V 900mAh 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					
	A HIV	Wi	Fi Mode(802.11b)		6	111.5
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	9.13	2	±0.5	9.18	2.85	3.0
2.437	9.18	2	±0.5	9.29	2.90	3.0
2.462	9.15	2	±0.5	9.23	2.90	3.0
MILLER		Wi	Fi Mode(802.11g)	CITE OF	23	Linn
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	2	±0.5	9.08	2.82	3.0
2.437	9.06	2	±0.5	9.04	2.82	3.0
2.462	9.11	2	±0.5	9.14	2.87	3.0
- WW		WiFi	Mode(802.11n(HT2	0))	11053	J HILL
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	9.06	2	±0.5	9.36	2.81	3.0
2.437	9.02	2	±0.5	8.95	2.80	3.0
2.462	9.03	2	±0.5	8.97	2.82	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	9.01	2	±0.5	8.93	2.78	3.0
2.437	9.07	2	±0.5	9.06	2.83	3.0
2.452	9.05	2	±0.5	9.02	2.82	3.0

So standalone SAR measurements are not required.