Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE144240

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RF Exposure Evaluation FCC ID: 2AEUS-A07

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

EUT Name	:	Action camera				
Models No.		A07, A01, A04, A05, A06, A07B, A07C				
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(802.11n(HT40): 7 channels see note(3)			
		Max Peak Output Power:	802.11b: 9.27 dBm 802.11g: 9.09 dBm 802.11n (HT20): 8.85 dBm 802.11n (HT40): 9.08 dBm			
		Antenna Gain:	2 dBi (FPC Antenna)			
		Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK 802.11g: OFDM 802.11n: OFDM			
Power Supply		DC power supplied by Car Charger. DC power by Li-ion Battery.				
Power Rating		Input: DC 12V~24V. Output: 5V, 1A. DC 3.7V 700mAh 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	W	iFi Mode(802.11b)		AMOR	THE STATE OF
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	2.820	3.0
2.437	9.13	2	±0.5	9.18	2.867	3.0
2.462	9.27	2	±0.5	9.48	2.976	3.0
W. College		W	iFi Mode(802.11g)		30	MAIN
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	9.04	2	±0.5	8.99	2.794	3.0
2.437	9.09	2	±0.5	9.10	2.841	3.0
2.462	9.06	2	±0.5	9.04	2.836	3.0
		WiFi I	Mode(802.11n(HT2	0))	1100	NI DI
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	8.51	2	±0.5	7.96	2.473	3.0
2.437	8.77	2	±0.5	8.45	2.639	3.0
2.462	8.85	2	±0.5	8.61	2.702	3.0
	The same of	WiFi I	Mode(802.11n(HT4	0))	Collins	
Frequency (GHz)	Power		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	9.00	2	±0.5	8.913	2.774	3.0
2.437	8.97	2	±0.5	8.851	2.763	3.0
2.452	9.08	2	±0.5	9.078	2.843	3.0

So standalone SAR measurements are not required.