

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE151502

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RF Exposure Evaluation FCC ID: 2AGUA-EXPLORERS

1. Client Information

Applicant: HK ELEPHONE COMMUNICATION TECH CO., LIMITED

Address: UNIT 04, 7/F BRIGHT WAY TOWER NO.33 MONG KOK RD KL,

HONGKONG

Manufacturer: HK ELEPHONE COMMUNICATION TECH CO., LIMITED

Address: UNIT 04, 7/F BRIGHT WAY TOWER NO.33 MONG KOK RD KL,

HONGKONG

2. General Description of EUT

EUT Name	:	Action camera				
Models No.	:	Explorer S				
Model Difference	T.	N/A				
Product Description		Operation Frequency:	: 802.11b/g/n(HT20): 2412MHz~2462MHz			
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)			
		RF Output Power:	er: 802.11b: 9.34 dBm 802.11g: 9.15 dBm 802.11n (HT20): 9.13 dBm			
		Antenna Gain:	2.11 dBi Internal Antenna			
		Modulation Type:	Type: 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)			
		Bit Rate of	802.11b:11/5.5/2/1 Mbps			
	11	Transmitter:	802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps			
Power Supply	•	DC power by USB cable. DC power by Li-ion battery.				
Power Rating	V	DC 5.0V by USB cable. DC 3.7V by 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 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:

[(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:

			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	9.34	9±0.5	9.5	8.913	2.768	3.0
2.437	9.28	9±0.5	9.5	8.913	2.783	3.0
2.462	9.31	9±0.5	9.5	8.913	2.797	3.0
المانان	A NOW		WiFi Mode(802.11g)	2 (4)	ير طنا	3 M.
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	9.12	9±0.5	9.5	8.913	2.768	3.0
2.437	9.08	9±0.5	9.5	8.913	2.783	3.0
2.462	9.15	9±0.5	9.5	8.913	2.797	3.0
	Marie Marie		The same			
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	9.09	9±0.5	9.5	8.913	2.768	3.0
2.437	9.13	9±0.5	9.5	8.913	2.783	3.0
2.462	9.06	9±0.5	9.5	8.913	2.797	3.0

So standalone SAR measurements are not required.

----END OF REPORT----