RF EXPOSURE REPORT



Report No.: 15070467-FCC-H

Applicant	Swagtek	Swagtek			
Product Name	Smart Phone				
Model No.	IS-B1102				
Serial No.	DU-1B011	В			
Test Standard	FCC 2.109	3			
Test Date	June 20 to	June 27, 2	015		
Issue Date	June 27, 20	015			
Test Result	Pass	🗖 Fail			
Equipment compl	ied with the	specificatio	n 🔽		
Equipment did no	t comply with	h the specif	ication		
Winnie Zhang David Huan			Huang		
Winnie Zhang Test Engineer			rida Huang lecked By		
	This test report may be reproduced in full only				
Test result presented in this test report is applicable to the tested sample only					

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Country/Region	Scope	
USA	EMC, RF/Wireless, SAR, Telecom	
Canada	EMC, RF/Wireless, SAR, Telecom	
Taiwan	EMC, RF, Telecom, SAR, Safety	
Hong Kong	RF/Wireless, SAR, Telecom	
Australia	EMC, RF, Telecom, SAR, Safety	
Korea	EMI, EMS, RF, SAR, Telecom, Safety	
Japan	EMI, RF/Wireless, SAR, Telecom	
Singapore	EMC, RF, SAR, Telecom	
Europe	EMC, RF, SAR, Telecom, Safety	

Accreditations for Conformity Assessment



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070467-FCC-H	NONE	Original	June 27, 2015

2. Customer information

Applicant Name	Swagtek
Applicant Add	10205 NW 19th Street, STE101, Miami, FL 33172 USA
Manufacturer	Swagtek
Manufacturer Add	10205 NW 19th Street, STE101, Miami, FL 33172 USA

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong
	China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0



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4. Equipment under Test (EUT) Information

Description of EUT:	Smart Phone
Main Model:	IS-B1102
Serial Model:	DU-1B011B
Date EUT received:	June 19, 2015
Test Date(s):	June 20 to June 27, 2015
Antenna Gain:	GSM850: 0.07 dBi PCS1900:0.58 dBi Bluetooth:0.51 dBi
Type of Modulation:	GSM / GPRS: GMSK Bluetooth: GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz Bluetooth& BLE: 2402-2480 MHz



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Number of Channels:	GSM 850: 124CH PCS1900: 299CH Bluetooth: 79CH
Port:	Power Port, Earphone Port, USB Port
Input Power:	Battery: Model: IS-B1102 Spec: 3.7V 800mAh 2.96Wh Adapter: Model: IS-B1102 Input: AC 100-240V; 50/60Hz 150mA Output: DC 5.0V; 500mA
Trade Name :	iSwag Shark , Duo Shark
GPRS/EGPRS Multi-slot class	8/10/12
FCC ID:	O55B110X2



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5. <u>FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable</u> devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission' s guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)].

- $\left[\sqrt{f_{(GHz)}}\right] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where
- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

- F= Channel frequency in GHz
- D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted Power	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
			(dBm)	(dBm)	(dBm)	(mW)		
	Low	2402	0.622	0±1	1	1.259	0.39	3
GFSK	Mid	2441	0.867	0±1	1	1.259	0.39	3
	High	2480	-0.148	0±1	1	1.259	0.40	3
π /4 DQPSK	Low	2402	2.187	2.0±1	3	1.995	0.62	3
	Mid	2441	2.504	2.0±1	3	1.995	0.62	3
	High	2480	1.439	2.0±1	3	1.995	0.63	3
8-DPSK	Low	2402	2.394	2.0±1	3	1.995	0.62	3
	Mid	2441	2.678	2.0±1	3	1.995	0.62	3
	High	2480	1.624	2.0±1	3	1.995	0.63	3

Result: Compliance

No SAR measurement is required.