# RF TEST REPORT



Report No.: 15070467-FCC-R1

Applicant	Swagtek			
Product Name	Smart Phone			
Model No.	IS-B1102			
Serial No.	DU-1B011E	3		
Test Standard	FCC Part 2	2(H),2014;	FCC Part 24(E),2	014; ANSI/TIAC603 D: 2010
Test Date	June 20 to	June 20 to June 27, 2015		
Issue Date	June 27, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie. Z	Winnie Zheng David Huang			
Winnie Zhang Test Engineer			vid Huang ecked By	

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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**

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#### **Accreditations for Conformity Assessment**

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



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### 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070467-FCC-R1	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

Equipment Category : PCE

Antenna Gain:

GSM850: 0.07 dBi

PCS1900:0.58 dBi

Bluetooth:0.51 dBi

GSM / GPRS: GMSK

Type of Modulation: Bluetooth: GFSK, π /4DQPSK, 8DPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

RF Operating Frequency (ies): PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

Bluetooth: 2402-2480 MHz



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Maximum Conducted

AV Power to Antenna:

GSM850: 32.12dBm

PCS1900: 30.24dBm

GSM850: 24.38dBm / ERP

ERP/EIRP: PCS1900: 22.74dBm / EIRP

GSM 850: 124CH

PCS1900: 299CH

Number of Channels: Bluetooth: 79CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: IS-B1102

Spec: 3.7V 800mAh 2.96Wh

Input Power: Adapter:

Model: IS-B1102

Input: AC 100-240V; 50/60Hz 150mA

Output: DC 5.0V; 500mA

iSwag Shark , Duo Shark Trade Name:

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: O55B110X2



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### 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance	
§2.1046; § 22.913(a); § 24.232(c);	DE Output Dawer	Compliance	
§ 27.50(c.10)	RF Output Power	Compliance	
§ 24.232 (d)	Peak-Average Ratio	Compliance	
§ 2.1047	Modulation Characteristics	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9, 26 dB Occupied Bandwidth	O a mana li a mana	
§ 24.238;	99% & -26 dB Occupied Bandwidth	Compliance	
§ 2.1051; § 22.917(a);	Spurious Emissions at Antonna Terminal	Compliance	
§ 24.238(a);	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Strength of Spurious Rediction	Compliance	
§ 24.238(a);	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance	
\$ 2.4055, \$ 22.255, \$ 24.225,	Frequency stability vs. temperature	Compliance	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. voltage		

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

#### **Measurement Uncertainty**

Emissions				
Test Item	Description	Uncertainty		
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB		
-	-	-		



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### 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 15070467-SAR-FCC.



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# 6.2 RF Output Power

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By:	Winnie Zhang

#### Requirement(s):

Requirement(s):	•						
Spec	Item	Item Requirement Applical					
§22.913 (a)	a)	a) ERP:38.45dBm					
§24.232 (c)	b)	EIRP:33dBm	~				
Test Setup		EUT Base Station					
	Fo	or Conducted Power:					
	-	The transmitter output port was connected to base stat	ion.				
	-	Set EUT at maximum power through base station.					
	-	- Select lowest, middle, and highest channels for each band and					
		different test mode.					
	For ERP/EIRP:						
	- The transmitter was placed on a wooden turntable, and it was						
	transmitting into a non-radiating load which was also placed on the						
Test Procedure		turntable.					
restriocedure	- The measurement antenna was placed at a distance of 3 meters						
	from the EUT. During the tests, the antenna height and						
	polarization as well as EUT azimuth were varied in order to identify						
	the maximum level of emissions from the EUT. The test was						
	performed by placing the EUT on 3-orthogonal axis.						
	- The frequency range up to tenth harmonic of the fundamental						
	frequency was investigated.						
	- Remove the EUT and replace it with substitution antenna. A signal						
		generator was connected to the substitution antenna by	y a non-				



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	radiating cable. The absolute levels of the spurious emissions were measured by the substitution.				
	- Spurious emissions in dB = 10 log (TX power in Watts/0.001) –				
	the absolute level				
	- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in				
	Watts.				
Remark					
Result	Pass				
Test Data Yes	N/A				
Test Plot Yes	(See below) V/A				



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#### **Conducted Power**

#### **GSM Mode:**

Burst Average Power (dBm);								
Band	GSM850			PCS1900				
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	31.96	32.09	32.12	32±1	30.24	29.36	29.04	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.95	32.07	32.09	32±1	30.23	29.34	29.02	30±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	30.69	30.79	30.83	30±1	28.08	27.35	26.81	27.5±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK (4 uplink),GMSK	26.37	26.51	26.53	26±1	24.25	24.47	24.03	24±1

Remark:

GPRS, CS1 coding scheme.

EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS and EGPRS mode.



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#### **ERP & EIRP**

### ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	17.83	V	6.8	0.53	24.1	38.45
824.2	15.95	Н	6.8	0.53	22.22	38.45
836.6	17.74	V	6.8	0.53	24.01	38.45
836.6	15.88	Н	6.8	0.53	22.15	38.45
848.8	18.01	V	6.9	0.53	24.38	38.45
848.8	16.15	Н	6.9	0.53	22.52	38.45

### EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	15.71	V	7.88	0.85	22.74	33
1850.2	13.96	Н	7.88	0.85	20.99	33
1880	15.54	V	7.88	0.85	22.57	33
1880	14.09	Н	7.88	0.85	21.12	33
1909.8	15.66	V	7.86	0.85	22.67	33
1909.8	13.82	Н	7.86	0.85	20.83	33



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### 6.3 Peak-Average Ratio

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By:	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	V
Test Setup	■ B	EUT Spectrum Analyzer	
Test Procedure	According with KDB 971168  1. The signal analyzer's CCDF measurement profile is enabled 2. Frequency = carrier center frequency 3. Measurement BW > Emission bandwidth of signal 4. The signal analyzer was set to collect one million samples to generate the CCDF curve 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power		
Remark			
Result	<b>▼</b> Pa	ss Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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### PCS1900

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak Average		Ratio(PAR)
1850.2	32.17	31.96	0.21
1880	32.19	32.09	0.1
1909.8	32.78	32.12	0.66



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### 6.4 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.



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### 6.5 Occupied Bandwidth

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item Requirement		Applicable	
§2.1049,	a) 99% Occupied Bandwidth(kHz)		<b>V</b>	
§22.917,				
§22.905	b)	26 dB Bandwidth(kHz)	<b>V</b>	
§24.238			_	
Test Setup	B	ase Station Spectrum Analyzer EUT		
	-	- The EUT was connected to Spectrum Analyzer and Base Station via		
Test		power divider.		
Procedure	-	The 99% and 26 dB occupied bandwidth (BW) of the mide	dle channel	
		for the highest RF powers.		
Remark				
Result	Pa	ass Fail		

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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### Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	241.7266	313.758
190	836.6	245.6333	320.545
251	848.8	246.2998	315.684

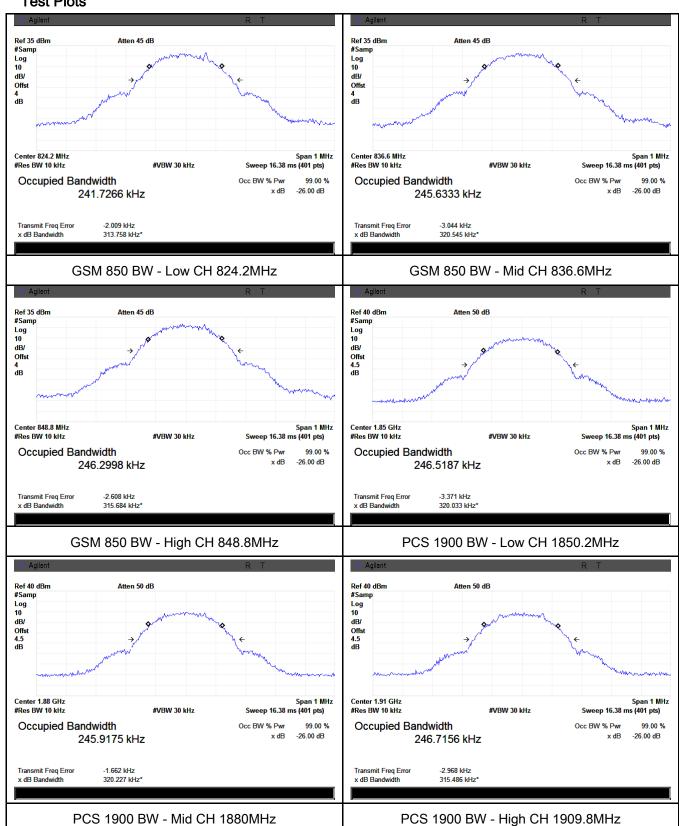
### PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.5187	320.033
661	1880.0	245.9175	320.227
810	1909.8	246.7156	315.486



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#### **Test Plots**





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### 6.6 Spurious Emissions at Antenna Terminals

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Requirement(s).			
Spec	Item	Requirement	Applicable
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	۵)	operating frequency ranges must be lower than the	
§24.238(a)	a)	transmitter power (P) by a factor of at least 43 + 10 log	
§ 27.53(h)		(P) dB	
Test Setup		Base Station Spectrum Analyzer	
Test Procedure	-	The EUT was connected to Spectrum Analyzer and Basevia power divider.  The Band Edges of low and high channels for the highest powers were measured.  Setting RBW as roughly BW/100.	
Remark			
Result	<b>☑</b> Pa	ss Fail	

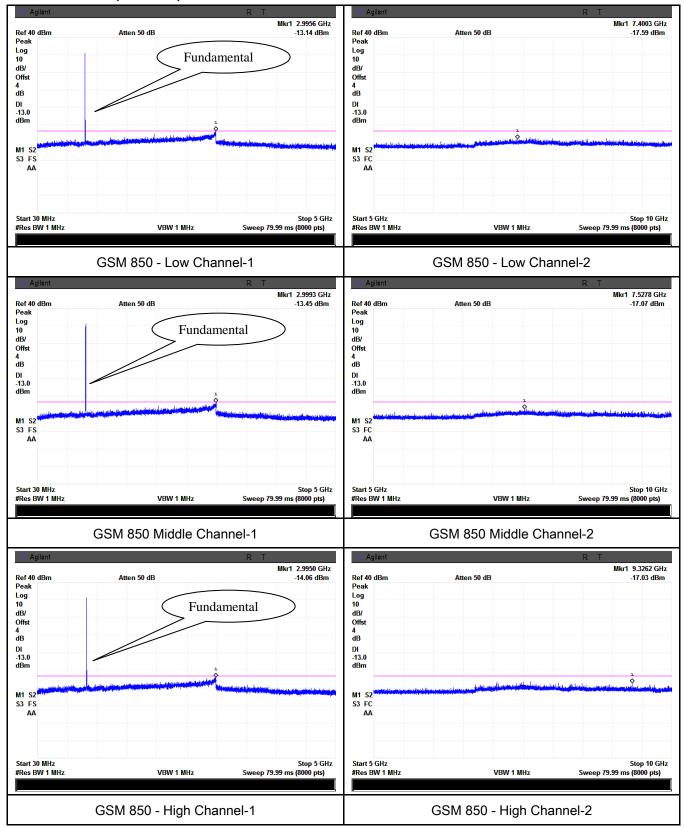
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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#### **Test Plots**

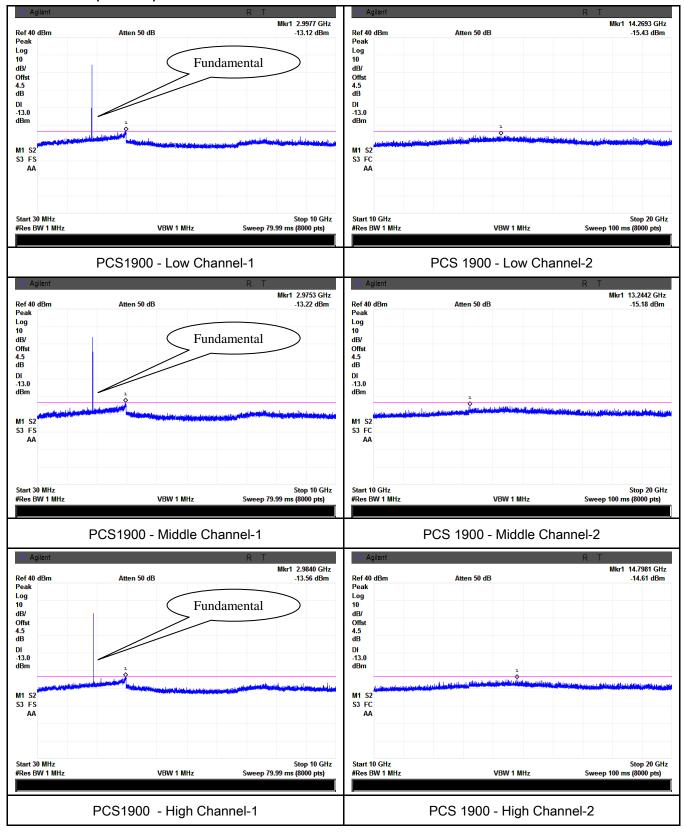
#### Cellular Band (Part 22H) result





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#### PCS Band (Part24E) result





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### 6.7 Spurious Radiated Emissions

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By:	21°C

#### Requirement(s):

Requirement(s):			
Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	
Test setup		Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver	
Test Procedure	radi 2. The Dur vari was 3. Rer con of th Sar	e transmitter was placed on a wooden turntable, and it was transmitating load which was also placed on the turntable.  It measurement antenna was placed at a distance of 3 meters from ing the tests, the antenna height and polarization as well as EUT at ed in order to identify the maximum level of emissions from the EUs performed by placing the EUT on 3-orthogonal axis.  Independent of the substitution antenna and polarization as well as EUT at each performed by placing the EUT on 3-orthogonal axis.  Independent of the substitution antenna by a non-radiating cable. The almost purious emissions were measured by the substitution.  In Field Strength = Raw Amplitude (dBµV/m) — Amplifier Gain (dEctor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)	the EUT. azimuth were  JT. The test nerator was bsolute levels
Remark			
Result	Pas	ss Fail	



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Test	Data

~	Yes
	1 63

N/A

Test Plot

\	es/	(See	below)

✓<sub>N/A</sub>

### Cellular Band (Part 22H) result

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-45.59	٧	7.95	0.78	-38.42	-13	-25.42
1648.4	-47.82	Н	7.95	0.78	-40.65	-13	-27.65
362.7	-56.47	V	6.7	0.29	-50.06	-13	-37.06
755.2	-54.92	Н	7.1	0.43	-48.25	-13	-35.25

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-45.22	V	7.95	0.78	-38.05	-13	-25.05
1673.2	-47.89	Н	7.95	0.78	-40.72	-13	-27.72
362.4	-57.01	V	6.7	0.29	-50.6	-13	-37.6
749.9	-55.23	Н	7.1	0.43	-48.56	-13	-35.56

### High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-45.82	V	7.95	0.78	-38.65	-13	-25.65
1697.6	-47.06	Η	7.95	0.78	-39.89	-13	-26.89
362.1	-56.44	V	6.7	0.29	-50.03	-13	-37.03
749.6	-55.82	Н	7.1	0.43	-49.15	-13	-36.15



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### PCS Band (Part24E) result

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-45.58	V	10.25	2.73	-38.06	-13	-25.06
3700.4	-48.16	Н	10.25	2.73	-40.64	-13	-27.64
363.3	-56.76	V	6.7	0.29	-50.35	-13	-37.35
755.5	-56.18	Н	7.1	0.43	-49.51	-13	-36.51

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-45.22	V	10.25	2.73	-37.7	-13	-24.7
3760	-46.75	Н	10.25	2.73	-39.23	-13	-26.23
363.7	-55.16	V	6.7	0.29	-48.75	-13	-35.75
756.3	-56.67	Н	7.1	0.43	-50	-13	-37

### High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-46.11	V	10.36	2.73	-38.48	-13	-25.48
3819.6	-45.87	Η	10.36	2.73	-38.24	-13	-25.24
364.2	-55.96	V	6.7	0.29	-49.55	-13	-36.55
756.6	-56.28	Н	7.1	0.43	-49.61	-13	-36.61



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### 6.8 Band Edge

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

,					
Spec	Item	Requirement	Applicable		
§22.917(a) §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.			
Test setup		Base Station Spectrum Analyzer EUT			
Procedure	-	<ul> <li>The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.</li> </ul>			
Remark					
Result	<b>☑</b> Pa	ss Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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### Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9950	-14.13	-13
849.0175	-13.62	-13

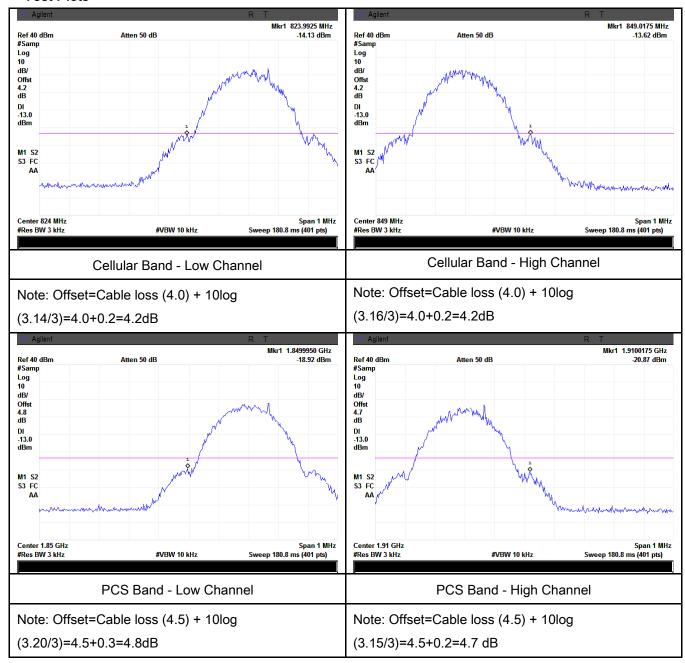
### PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9950	-18.92	-13
1910.0175	-20.87	-13



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#### **Test Plots**





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### 6.9 Frequency Stability

Temperature	20°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	June 27, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement				Applicable	
		According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:  Frequency Tolerance for Transmitters in the Public Mobile Services					
		Frequency	Base,	Mobile ≤ 3	Mobile ≤ 3		
§2.1055,		Range	fixed	watts	watts		
		(MHz)	(ppm)	(ppm)	(ppm)		
§22.355 &	a)	25 to 50	20.0	20.0	50.0		
§24.235		50 to 450	5.0	5.0	50.0		
		450 to 512	2.5	5.0	5.		
		8 1 to 896	1.5	2.5	2.5		
		928 to 29.	5.0	N/A	N/A		
		929 to 960.	1.5	N/A	N/A		
		2110 to 2220	10.0	N/A	N/A		
		According to §24.235, the frequency stability shall be sufficient to					
		ensure that the fundamental emissions stay within the authorized					
		frequency block.					
Test setup	Base Station EUT  Thermal Chamber						



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	A communication link was established between EUT and base station. The
	frequency error was monitored and measured by base station under variation
Procedure	of ambient temperature and variation of primary supply voltage.
	Limit: The frequency stability of the transmitter shall be maintained within
	±0.00025% (±2.5ppm) of the center frequency.
Remark	
Result	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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### Cellular Band (Part 22H) result

Middle Channel, f₀ = 836.6 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		13	0.0155	2.5
0		11	0.0131	2.5
10	3.7	8	0.0096	2.5
20		5	0.0060	2.5
30		7	0.0084	2.5
40		10	0.0120	2.5
50		15	0.0179	2.5
55		19	0.0227	2.5
25	4.2	10	0.0120	2.5
25	3.5	8	0.0096	2.5

### PCS Band (Part 24E) result

Middle Channel, f₀ = 1880 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		12	0.0064	2.5
0		9	0.0048	2.5
10	3.7	7	0.0037	2.5
20		5	0.0027	2.5
30		7	0.0037	2.5
40		10	0.0053	2.5
50		13	0.0069	2.5
55		15	0.0080	2.5
25	4.2	10	0.0053	2.5
25	3.5	8	0.0043	2.5



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### Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2014	09/16/2015	<u>\</u>
Power Splitter	1#	1#	09/02/2014	09/01/2015	~
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	V
Temperature/Humidity Chamber	UHL-270	001	10/10/2014	10/09/2015	<u>&lt;</u>
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	•
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	<
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	<u>\</u>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<u>&lt;</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	<u>&lt;</u>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/22/2014	09/21/2015	<u>&lt;</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/25/2014	09/24/2015	<u>&lt;</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<u>&lt;</u>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/18/2014	09/17/2015	V
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/02/2014	09/01/2015	<b>\</b>
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/02/2014	09/01/2015	V



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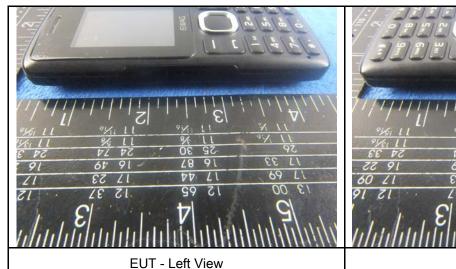
### Annex B. EUT And Test Setup Photographs

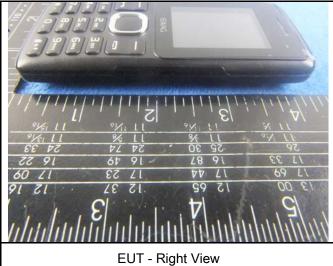
#### Annex B.i. Photograph: EUT External Photo





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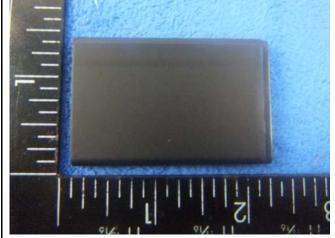
### Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1

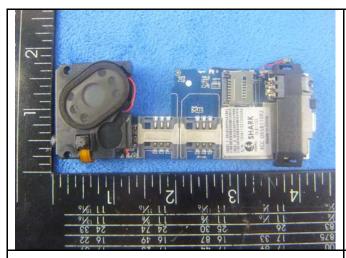
Cover Off - Top View 2



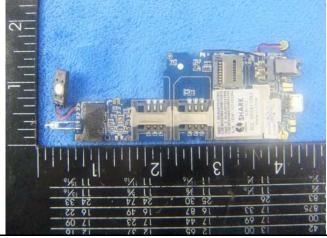


Battery - Top View

Battery - Bottom View



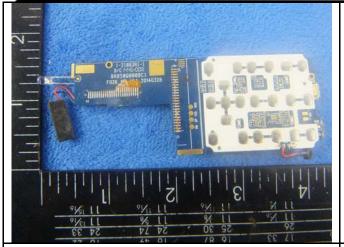
Mainborad With Shielding - Front View 1



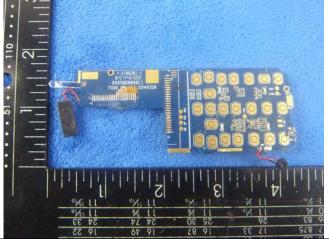
Mainborad With Shielding - Front View 2



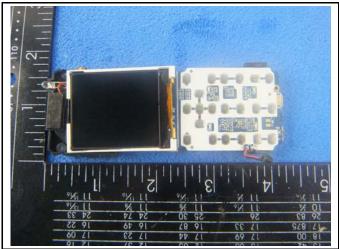
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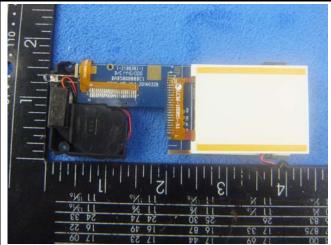
Mainborad With Shielding - rear View



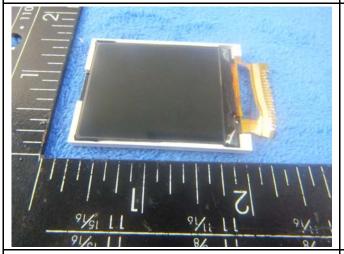
Mainborad Without Shielding - rear View



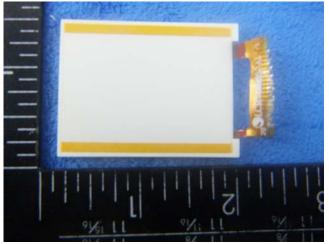
LCD - Front View 1



LCD - Rear View 1



LCD - Front View 2



LCD - Rear View 2



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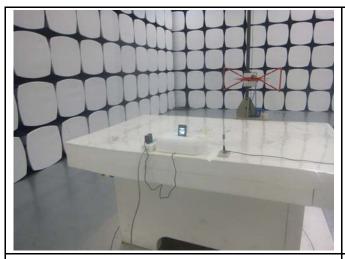
**GSM Antenna View** 

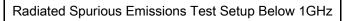
BT Antenna View



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### Annex B.iii. Photograph: Test Setup Photo







Radiated Spurious Emissions Test Setup Above 1GHz

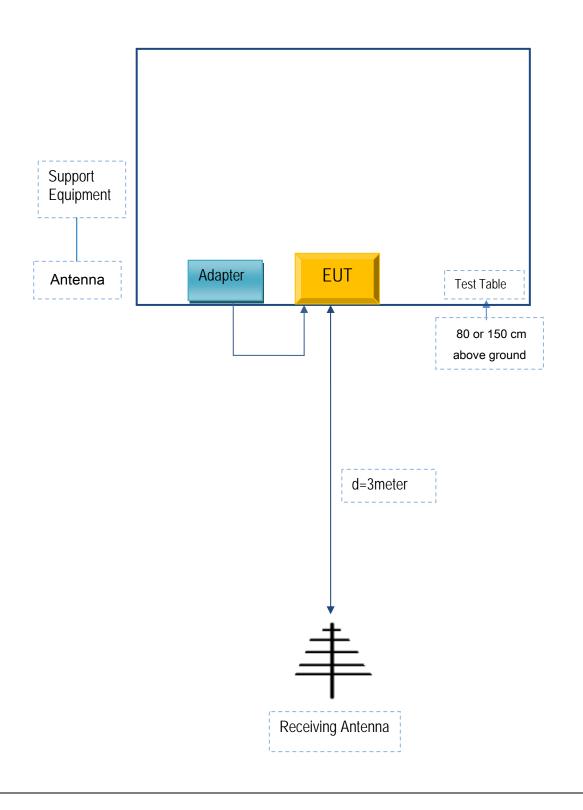


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### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

**Block Configuration Diagram for Radiated Emissions** 





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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### Annex C.ii. EUT OPERATING CONKITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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### Annex E. DECLARATION OF SIMILARITY

# Swagtek

To: 775 Montague Expressway Mlpitas, CA 95035, USA

# **Declaration Letter**

Dear Sir,

For our business issue and marketing requirement, we would like to list 2 model numbers on The FCC reports, as following:

Model No.:	Trade:	-
IS-B1102	iSwag Shark	
DU-1B011B	Duo Shark	
DO-1DOTTE		

We declare that: IS-B1102, DU-1B011B, All models the same PCB and Appearance shape, accessories the difference of these is listed as below:

Main Model No	Serial Model No	Difference
IS-B1102	DU-1B011B	IS-B1102 (Dual SIM card);
1.5 2 5 -		DU-1B011B (Single SIM card)
		DO-100110

Thank you!

Sincerely,

Client's signature:

Client's name / title : Charles Cheng/ Manager

Contact information: 1-305 421 9938

Address: 10205 NW 19th Street, STE101, Miami, FL 33172 USA