RF TEST REPORT



Report No.: 14070579-FCC-R4
Supersede Report No.: N/A

Applicant	Verykool USA Inc		
Product Name	Mobile phone		
Model No.	s5511		
Test Standard	FCC Part 15.247: 2013, ANSI C63.10: 2009		
Test Date	October 20 to October 28, 2014		
Issue Date	October 30, 2014		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Herith	sW Alex.Lin		
Herith S Test Engir	######################################		

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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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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.

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
14070579-FCC-R4	NONE	Original	October 30, 2014
			_

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
Manufacturer	HONGKONG IPRO TECHNOLOGY CO., LIMITED	
Manufacturer Add	FLAT/RM A3 9/F SILVERCORP INT TOWER 707-713 NATHAN RD MONGKOK	
	KL HONGKONG	

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	Labview of SIEMIC version 2.0	



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
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Main Model: s5511

Serial Model: N/A

Date EUT received: October 17, 2014

Test Date(s): October 20 to October 28, 2014

Equipment Category: DTS

UMTS-FDD Band V/GSM850: 2.7 dBi

UMTS-FDD Band II /PCS1900: 2.4 dBi

Antenna Gain:

Bluetooth/BLE: 1.5 dBi

WIFI: 1.5 dBi

GSM / GPRS: GMSK

EGPRS: GMSK

UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

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

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RF Operating Frequency (ies):

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz

WIFI:802.11n(40M): 2422-2452 MHz

Bluetooth& BLE: 2402-2480 MHz

ERP/EIRP: 802.11b: 8.84 dBm



Number of Channels:

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GSM 850: 124CH

PCS1900: 299CH

WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: GLORY II

Spec: 3.7V 2300mAh

Limited charger voltage: 4.2V

Input Power:

Adapter:

Model: SC050100-US

Input: AC 100-240V; 50/60Hz 0.4A

Output: DC 5.0V; 1000mA

Trade Name : verykool

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

FCC ID: WA6S5511



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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	
§15.247 (i), §2.1093	RF Exposure	Compliance	
§15.203	Antenna Requirement	Compliance	
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance	
§15.247(b)(3)	Conducted Maximum Output Power	Compliance	
§15.247(e)	Power Spectral Density	Compliance	
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted	Compliance	
	Frequency Bands		
§15.207 (a),	AC Power Line Conducted Emissions	Compliance	
§15.205, §15.209,	\$15.205, §15.209, Radiated Spurious Emissions & Unwanted Emissions		
§15.247(d)	into Restricted Frequency Bands	Compliance	

Measurement Uncertainty

Emissions			
Test Item	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

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{\text{(GHz)}}}] \le 3.0 \text{ for } 1\text{-g SAR} \text{ and } \le 7.5 \text{ for } 10\text{-g extremity SAR}, ^{16} \text{ where}$

- 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 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.

Two antennas are available for the EUT (GSM antenna, Bluetooth/WIFI/BLE antenna). The maximum average output power(turn-up power) in low channel of BLE is -2 dBm= 0.63 mW The calculation results= $0.63/5*\sqrt{2.402}=0.20<3$

The maximum average output power(turn-up power) in middle channel of BLE is -2 dBm= 0.63 mW The calculation results= $0.63/5*\sqrt{2.440}$ = 0.20< 3

The maximum average output power(turn-up power) in high channel of BLE is -2 dBm= 0.63 mW The calculation results= $0.63/5*\sqrt{2.480}$ = 0.20< 3

According to KDB 447498, no stand-alone required for BLE antenna, and no simultaneous SAR measurement is required, please refer to SAR report.

Test Result: Pass



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6.2 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas:

A PIFA antenna for Bluetooth/BLE/WIFI, the gain is 1.5 dBi for Bluetooth/BLE/WIFI.

A PIFA antenna for GSM and UMTS, the gain is 2.7 dBi for UMTS-FDD Band V/ GSM850, 2.4 dBi for UMTS-FDD Band II/PCS1900

The antenna is up to ANTENNA REQUIREMENT.

Result: Compliance.



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6.3 DTS (6 dB) Channel Bandwidth

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1005mbar
Test date :	October 24, 2014
Tested By :	Herith Shi

Spec	Item	Item Requirement Appli						
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;						
RSS Gen(4.6.1)	b)	b) 99% BW: For FCC reference only; required by IC.						
Test Setup	Spectrum Analyzer EUT							
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 ′ RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum							
Remark								
Result	Pas	ss Fail						

Test Data	Yes	□ _{N/A}	
Test Plot	Yes (See below)	□ _{N/A}	



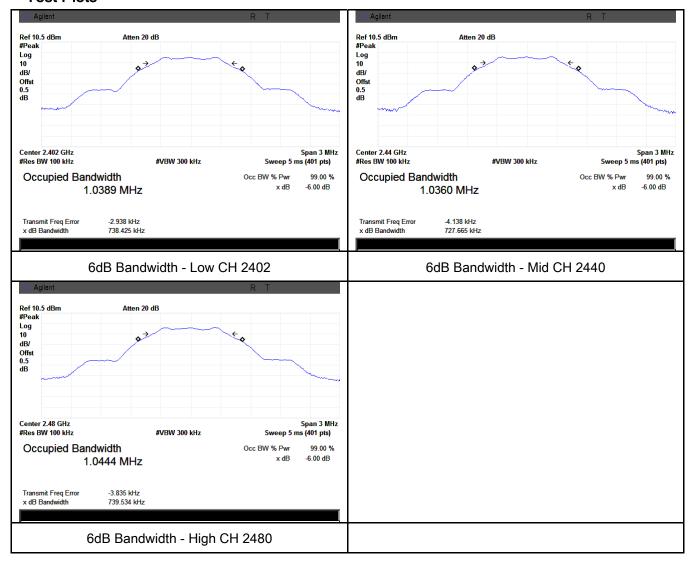
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6dB Bandwidth measurement result

Test Data

Туре	СН	Freq (MHz)	Result (MHz)	Limit (MHz)	Result
	Low	2402	738.425	≥ 0.5	Pass
6dB BW	Mid	2440	727.665	≥ 0.5	Pass
	High	2480	739.534	≥ 0.5	Pass

Test Plots





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6.4 Maximum Output Power

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1005mbar
Test date :	October 24, 2014
Tested By :	Herith Shi

Requirement(s):

Spec	Item	m Requirement				
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt				
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt				
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125				
§15.247(b)		Watt.				
(2),RSS210	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt				
(A8.4)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25				
		Watt				
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz:	V			
		≤ 1 Watt				
Test Setup	Spectrum Analyzer EUT					
	558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method					
	Maximum output power measurement procedure					
		ne RBW ≥ DTS bandwidth.				
Test	'	b) Set VBW ≥ 3 × RBW.				
Procedure	c) Set span ≥ 3 x RBW					
Frocedure	d) Sweep time = auto couple. e) Detector = peak.					
	f) Trace mode = max hold.					
	g) Allow trace to fully stabilize.					
	h) Use peak marker function to determine the peak amplitude level.					
Remark						



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Result	Pass	Fail

Test Data Yes

Test Plot
✓ Yes (See below)
✓ N/A



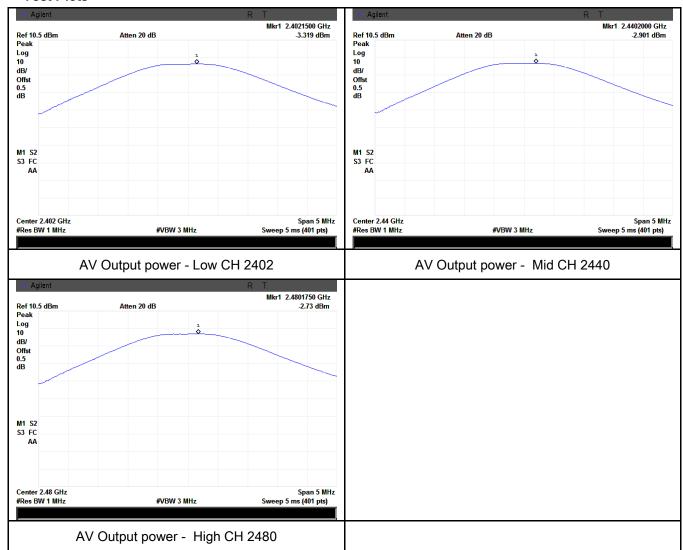
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Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.319	30	Pass
Output	Mid	2440	-2.901	30	Pass
power	High	2480	-2.730	30	Pass

Test Plots





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6.5 Power Spectral Density

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1008mbar
Test date :	October 27, 2014
Tested By :	Herith Shi

Spec	Item	Requirement	Applicable			
§15.247(e)	a)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Test Setup		Spectrum Analyzer EUT				
Test Procedure		558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. - d) Set the VBW ≥ 3 × RBW. - e) Detector = peak. - f) Sweep time = auto couple.				
Remark			·			
Result	Pas	ss Fail				

Test Data







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Test Plot

Yes (See below)

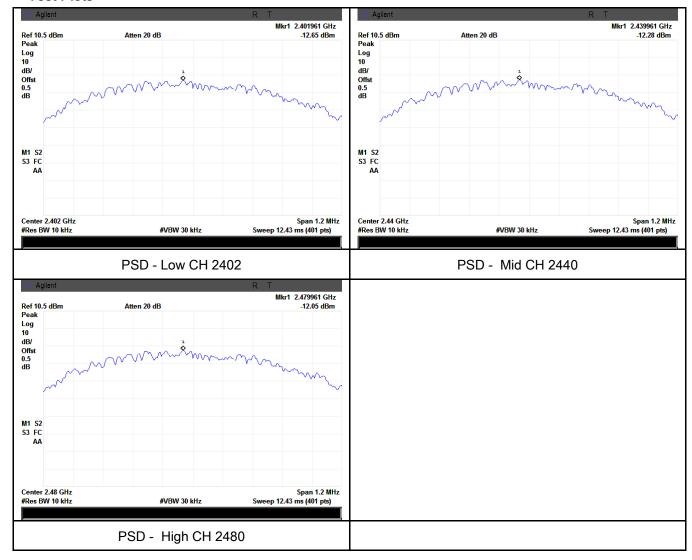


Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
PSD	Low	2402	-12.65	8	Pass
	Mid	2440	-12.28	8	Pass
	High	2480	-12.05	8	Pass

Test Plots





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6.6 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	26°C
Relative Humidity	50%
Atmospheric Pressure	1009mbar
Test date :	October 28, 2014
Tested By :	Herith Shi

Requirement(s):

Spec	Item	n Requirement Application		
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB		
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver			
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check			



Test Plot Yes (See below)

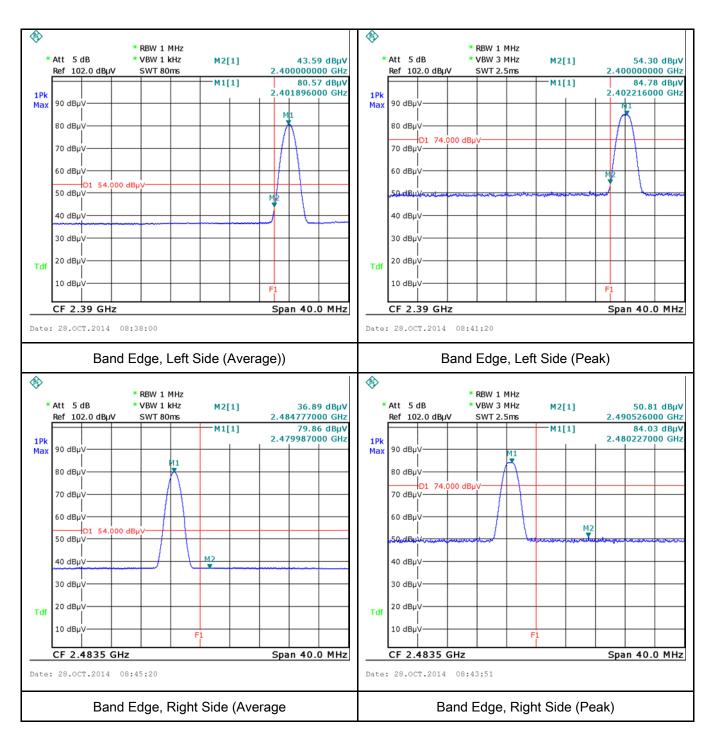
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	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth with Peak detection for Average Measurement as below at
	frequency above 1GHz.
	■ 1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
Test Data	res N/A



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Test Plots Band Edge measurement result





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6.7 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	51%
Atmospheric Pressure	1001mbar
Test date :	October 20, 2014
Tested By:	Herith Shi

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line implower limit applies at the Frequency ranges (MHz) 0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	e utility (AC) power line ed back onto the AC po es, within the band 150 the following table, as spedance stabilization r	the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The ne frequencies ranges.	
Test Setup	Vertical Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.				
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 				



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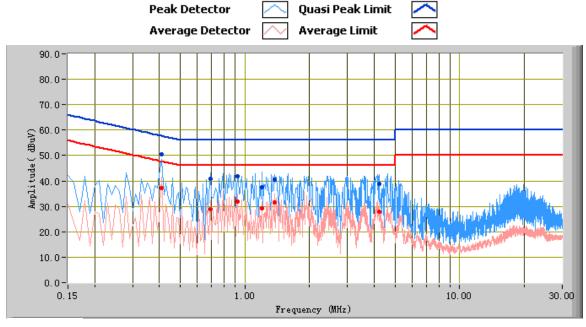
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Mode: Transmitting Mode



Test Data

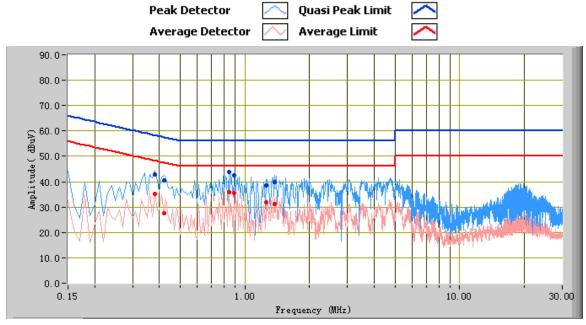
Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.41	50.45	57.65	-7.20	37.33	47.65	-10.32	10.96
1.20	37.67	56.00	-18.33	29.12	46.00	-16.88	10.30
0.69	40.96	56.00	-15.04	28.88	46.00	-17.12	10.45
0.92	41.97	56.00	-14.03	31.86	46.00	-14.14	10.34
4.22	38.81	56.00	-17.19	28.05	46.00	-17.95	10.85
1.38	40.58	56.00	-15.42	31.63	46.00	-14.37	10.33



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Test Mode: Transmitting Mode



Test Data

Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.84	43.98	56.00	-12.02	35.97	46.00	-10.03	10.37
1.38	39.70	56.00	-16.30	31.38	46.00	-14.62	10.33
0.38	42.93	58.28	-15.35	35.05	48.28	-13.23	11.08
0.89	42.48	56.00	-13.52	35.49	46.00	-10.51	10.35
0.42	40.54	57.45	-16.91	27.48	47.45	-19.97	10.91
1.25	38.50	56.00	-17.50	31.74	46.00	-14.26	10.31



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6.8 Radiated Spurious Emissions

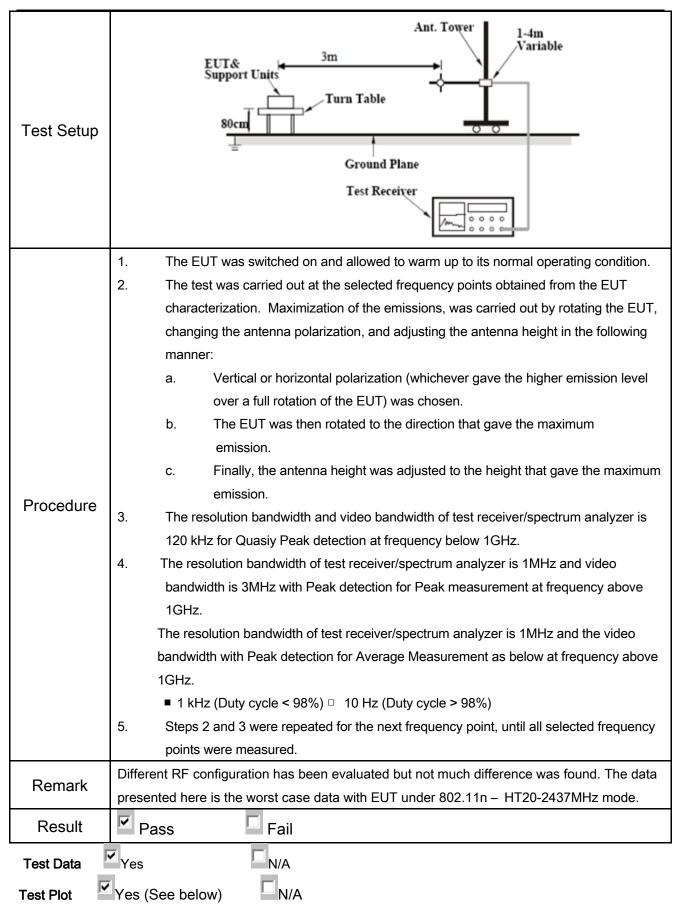
Temperature	26°C
Relative Humidity	52%
Atmospheric Pressure	1002mbar
Test date :	October 21, 2014
Tested By :	Herith Shi

Requirement(s):

Spec	Item	Requirement		Applicable
		Except higher limit as specified else		
		emissions from the low-power radio		
		exceed the field strength levels spe		
		the level of any unwanted emission		
		the fundamental emission. The tigh	ter limit applies at the band	_
	a)	edges		V
		Frequency range (MHz)	Field Strength (μV/m)	
		30 – 88	100	
		88 – 216	150	
47CFR§15.		216 960	200	
247(d),		Above 960	500	
RSS210	b)	For non-restricted band, In any 100) kHz bandwidth outside the	
		frequency band in which the spread	▽	
(A8.5)		modulated intentional radiator is op		
		power that is produced by the inten		
		20 dB or 30dB below that in the 10		
	5)	band that contains the highest leve		
		determined by the measurement m		
		used. Attenuation below the genera	al limits specified in § 15.209(a)	
		is not required		
		20 dB down 30	dB down	
	0)	or restricted band, emission must a	also comply with the radiated	
	c)	emission limits specified in 15.209		



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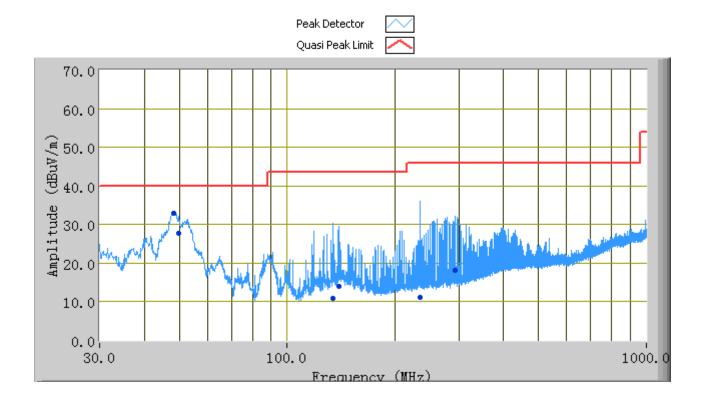




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Test Mode:	Transmitting Mode

(Below 1GHz)



Test Data

Vertical & Horizontal Polarity Plot @3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
48.24	32.91	0.00	V	102.00	-13.14	40.00	-7.09
49.85	27.72	352.00	V	125.00	-13.89	40.00	-12.28
234.57	11.09	110.00	Н	158.00	-7.62	46.00	-34.91
133.60	10.81	352.00	V	123.00	-7.28	43.52	-32.71
293.52	18.02	120.00	V	143.00	-6.77	46.00	-27.98
139.30	14.03	215.00	Н	128.00	-7.00	43.52	-29.49



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Test Mode: Transmitting Mode

(Above 1GHz)

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading	Detector (PK/AV)	Polarity (H/V)	Ant.	Cable Loss	Duty cycle Factor	Pre- Amp. Gain	Cord.	Limit (dBµV/m)	Margin (dB)
	(dBµV)			(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)		
4804	31.56	AV	٧	33.83	4.87	3.88	24	50.14	54	-3.86
4804	32.02	AV	Н	33.83	4.87	3.88	24	50.60	54	-3.40
4804	41.85	PK	V	33.83	4.87		24	56.55	74	-17.45
4804	42.19	PK	Н	33.83	4.87	_	24	56.89	74	-17.11

Duty cycle factor=20log(1/Duty cycle)=20log(1/0.64)=3.88

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Duty cycle Factor (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	32.11	AV	V	33.86	4.87	3.74	24	50.58	54	-3.42
4880	31.75	AV	Н	33.86	4.87	3.74	24	50.22	54	-3.78
4880	40.99	PK	V	33.86	4.87	_	24	55.72	74	-18.28
4880	41.02	PK	Н	33.86	4.87	_	24	55.75	74	-18.25

Duty cycle factor=20log(1/Duty cycle)=20log(1/0.65)=3.74

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Duty cycle Factor (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	31.94	AV	V	33.9	4.87	3.61	24	50.32	54	-3.68
4960	32.07	AV	Н	33.9	4.87	3.61	24	50.45	54	-3.55
4960	41.27	PK	V	33.9	4.87	_	24	56.04	74	-17.96
4960	40.76	PK	Н	33.9	4.87	_	24	55.53	74	-18.47

Duty cycle factor=20log(1/Duty cycle)=20log(1/0.66)=3.61



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Annex A. TEST INSTRUMENT

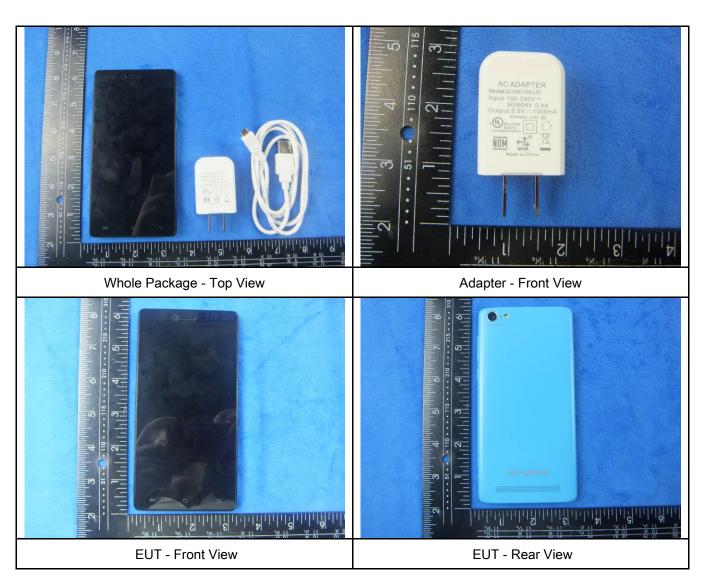
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	~
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	~
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	~
LISN	ISN T800	34373	09/26/2014	09/25/2015	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	✓
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	V
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	>
Power Splitter	1#	1#	09/02/2014	09/01/2015	>
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	~
Positioning Controller	UC3000	MF780208282	11/20/2013	11/19/2014	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	✓
Microwave Preamplifier (0.5 ~ 18GHz)	PAM-118	443008	09/02/2014	09/01/2015	>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	✓
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	V



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



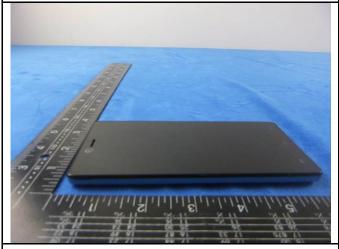


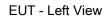
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EUT - Top View

EUT - Bottom View







EUT - Right View



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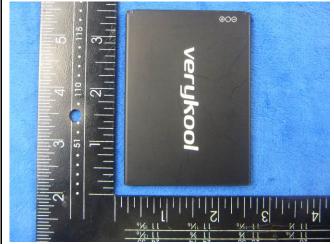
Annex B.ii. Photograph: EUT Internal Photo

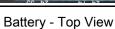




Cover Off - Top View 1

Cover Off - Top View 2







Battery - Bottom View



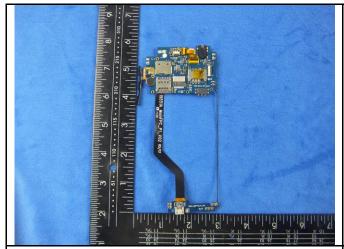
LCD - Front View



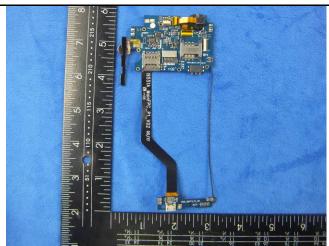
LCD - Rear View



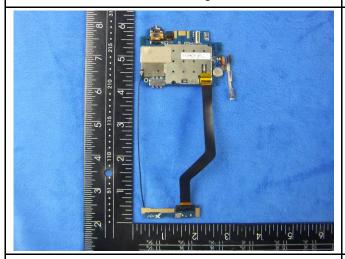
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Mainborad With Shielding - Front View



Mainborad Without Shielding - Front View



Mainborad With Shielding - Front View



Mainborad Without Shielding - Rear View



BT/BLE/WIFI Antenna View



GSM/PCS/UMTS-FDD Antenna View



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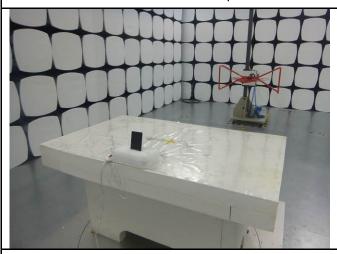
Annex B.iii. Photograph: Test Setup Photo



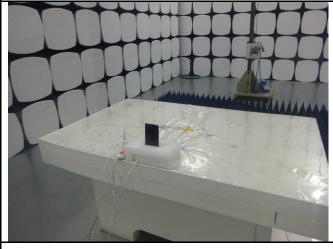
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

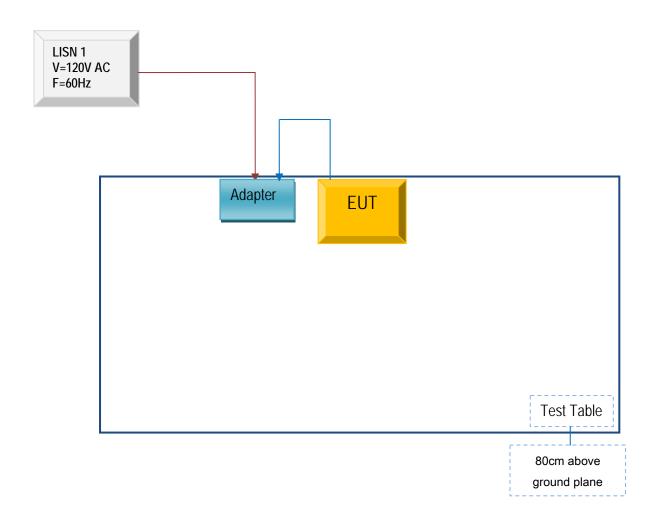


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

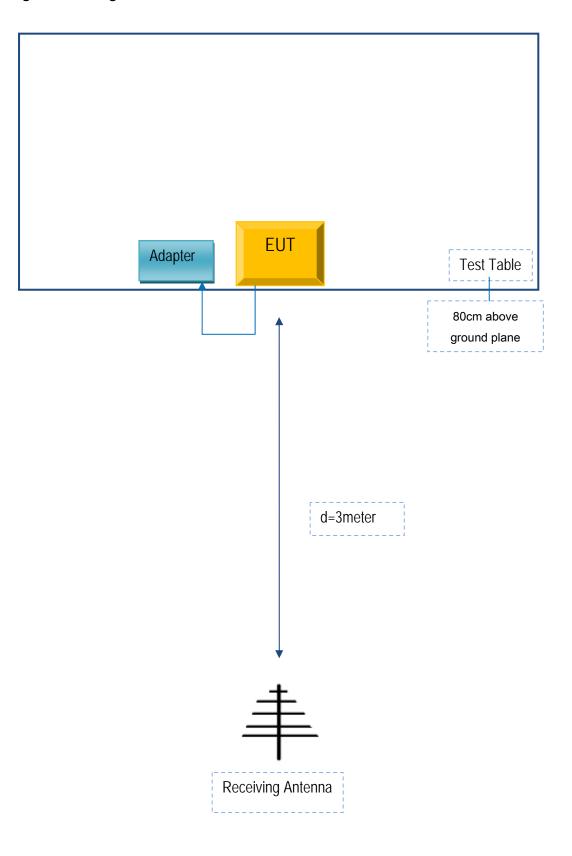
Block Configuration Diagram for AC Line Conducted Emissions





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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 D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

N/A