RF TEST REPORT



Report No.: 17070)325-FCC-R	3		
Supersede Repor	t No.: N/A			
Applicant	G-TOUCH LLC.			
Product Name	Mobile pho	Mobile phone		
Model No.	STELLA			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	2013	
Test Date	July 04 to	July 04 to July 11, 2017		
Issue Date	July 12, 20	July 12, 2017		
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did no	t comply wit	h the specification		
Loven	240	David Huang		
Loren Luo		David Huang		
Test Engir	neer	Checked By		
	This test	report may be reproduced in	full only	
Test result p	resented in t	this test report is applicable to	o the tested sample only	
		Issued by:		
	SIEMIC (SHENZHEN-CHINA) LABOR	ATORIES	
	Zone A. Floo	or 1. Building 2 Wan Ye Long Tec	hnology Park	

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108 Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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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
17070325-FCC-R3	NONE	Original	July 12, 2017

2. Customer information

Applicant Name	G-TOUCH LLC.
Applicant Add	1750 NW 107TH Avenue, STE P-411, Miami, Florida, United States
Manufacturer	G-TOUCH LLC.
Manufacturer Add	1750 NW 107TH Avenue, STE P-411, Miami, Florida, United States

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 of	Dedicted Emission Dreament To Changhan (2.0	
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	EZ EMC(ver len 0201)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	STELLA
Serial Model:	N/A
Date EUT received:	July 03, 2017
Test Date(s):	July 04 to July 11, 2017
Equipment Category :	DTS
Antenna Gain:	GSM850: -3.62dBi PCS1900: -1.22dBi UMTS-FDD Band V: -3.66dBi UMTS-FDD Band II: -1.29dBi WIFI: 0.65dBi Bluetooth/BLE: 0.65dBi GPS: -0.85dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK
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 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; 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



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GPS: 1575.42 MHz

Max. Output Power:	-2.294dBm
	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V: 102CH UMTS-FDD Band II: 277CH
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH
Port:	USB Port, Earphone Port
Trade Name :	N/A
Input Power:	Adapter: Model: STELLA Input: AC100-240V~50/60Hz,0.15A Output: DC 5.0V,800mA Battery: Model: BT015100 Spec : 3.8V,2000mAh Voltage: 4.35V
Input Power: FCC ID:	Model: STELLA Input: AC100-240V~50/60Hz,0.15A Output: DC 5.0V,800mA Battery: Model: BT015100 Spec : 3.8V,2000mAh



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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	
§15.203	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 Restricted	Compliance	
\$13.247(d)	Frequency Bands	Compliance	
§15.207 (a),	AC Power Line Conducted Emissions	Compliance	
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions		
§15.247(d)	into Restricted Frequency Bands	Compliance	

Measurement Uncertainty

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



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6. Measurements, Examination And Derived Results

6.1 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:

a. 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 3 antennas:

A permanently attached PIFA antenna for GSM /PCS/ UMTS-FDD Band V / II, the gain is -3.62dBi for GSM, the gain is -1.22dBi for PCS, the gain is -3.66dBi for UMTS-FDD Band V, the gain is -1.29dBi for UMTS-FDD Band II.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE, the gain is 0.65dBi for Bluetooth/BLE/WIFI. A permanently attached PIFA antenna for GPS, the gain is -0.85dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	24 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 05, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable		
§ 15.247(a)(2)	a)	K			
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	 Image: A second s		
Test Setup	Spectrum Analyzer				
	55807	4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth			
	6dB E	mission bandwidth measurement procedure			
	- Set RBW = 100 kHz.				
	- Set the video bandwidth (VBW) ≥ 3 RBW.				
	- Detector = Peak.				
Test Procedure	- 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				
Demort	level measured in the fundamental emission.				
Remark					
Result	Pass Fail				
Test Data Yes					
Test Plot Yes	(See b	elow)			



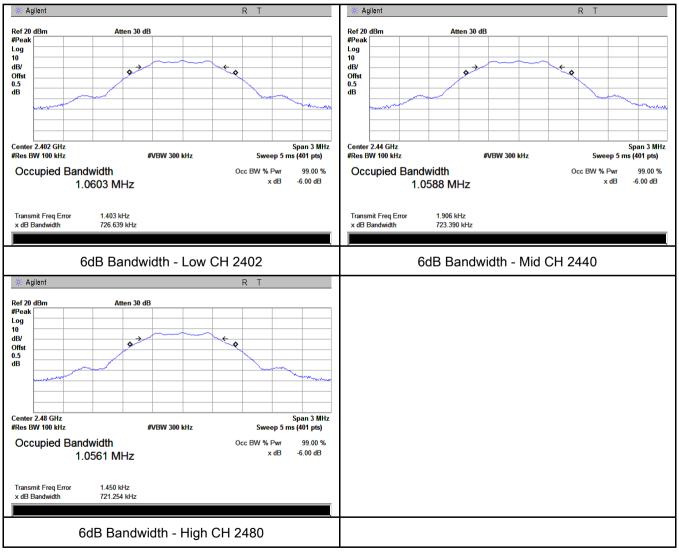
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	726.639	1.0603
Mid	2440	723.390	1.0588
High	2480	721.254	1.0561

Test Plots





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6.3 Maximum Output Power

Temperature	24 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 05, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable		
	a)	FHSS in 2400-2483.5MHz with \geq 75 channels: \leq 1 Watt			
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b) (3),RSS210	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.			
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt			
(, (0, 1))	e)	FHSS in 902-928MHz with $\geq 25 \& <50$ channels: ≤ 0.25 Watt			
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V		
Test Setup	Spectrum Analyzer EUT				
Test Procedure	 558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method Maximum output power measurement procedure a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW 				
Remark	•				
Result	Pas	s 🗖 Fail			



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Test Data	Ves	
Test Plot	Ves (

□_{N/A}

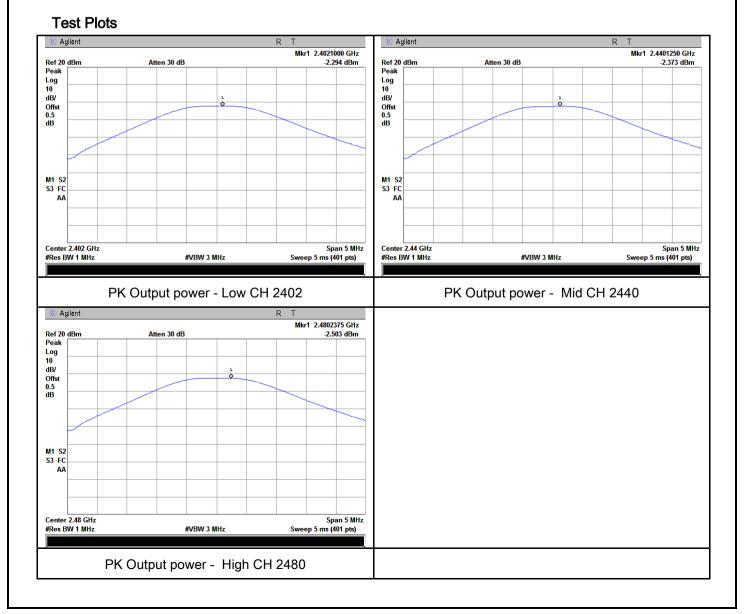
Yes (See below)

□_{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-2.294	30	Pass
Output	Mid	2440	-2.373	30	Pass
power	High	2480	-2.503	30	Pass





6.4 Power Spectral Density

Temperature	25 °C		
Relative Humidity	54%		
Atmospheric Pressure	1010mbar		
Test date :	July 06, 2017		
Tested By :	Loren Luo		

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 v03r03, 10.2 power spectral density meth 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. g) Trace mode = max hold. 						
Remark								
Result	Pas	ss Fail						
Test Data Yes N/A Test Plot Yes (See below)								



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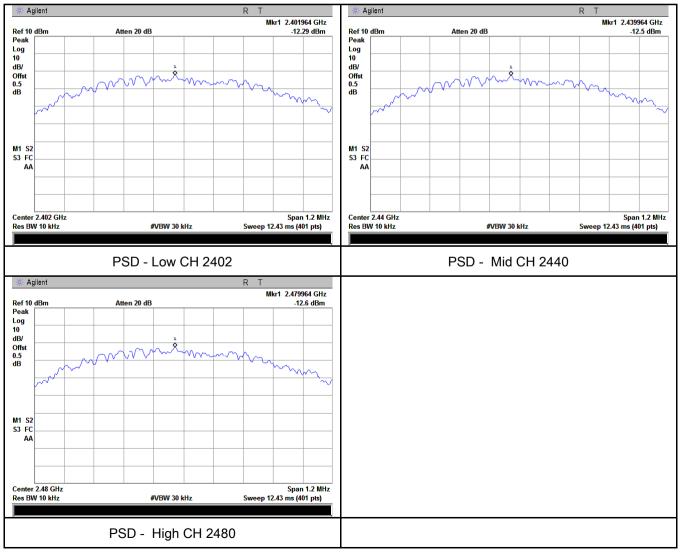
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
PSD	Low	2402	-12.29	-5.23	-17.52	8	Pass
	Mid	2440	-12.50	-5.23	-17.73	8	Pass
	High	2480	-12.60	-5.23	-17.83	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	25 °C
Relative Humidity	54%
Atmospheric Pressure	1010mbar
Test date :	July 06, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Item Requirement					
§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 below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 					
Test Setup		Peak conducted power limits.					
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								
SIFI		Test Report No.	17070325-FCC-R3					
A Bureau Veritas G		Page	17 of 50					
			of spectrum analyzer to 100 kHz with a					
	convenient frequency span including 100kHz bandwidth from band edge, check							
			n set Spectrum Analyzer as below:					
			video bandwidth of test receiver/spectrum					
	-		Peak detection at frequency below 1GHz.					
			est receiver/spectrum analyzer is 1MHz and video					
	1GHz.	s sivifiz with Peak de	etection for Peak measurement at frequency above					
	_	lution bondwidth of to	et receiver/enestrum analyzer is 1MUz and the					
			est receiver/spectrum analyzer is 1MHz and the					
		y above 1GHz.	eak detection for Average Measurement as below					
			e appearing on spectral display and set it as a					
			ith marking the highest point and edge frequency.					
			il all measured frequencies were complete.					
Remark								
Remark	_	_						
Result	Pass	🗖 Fail						
Test Data	∕es (See below)	▼ N/A						

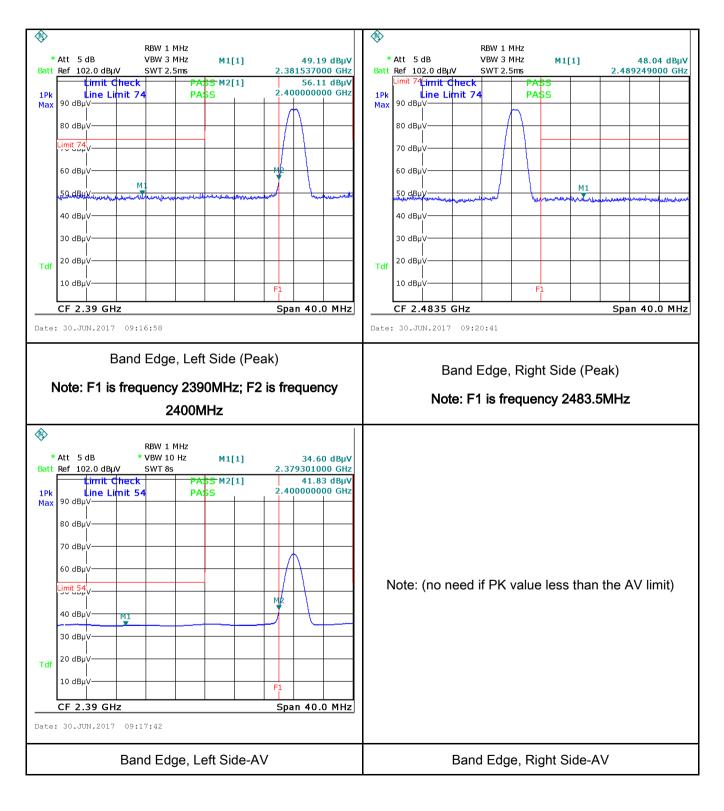


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Test Plots

Band Edge measurement result





6.6 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	54%
Atmospheric Pressure	1010mbar
Test date :	July 06, 2017
Tested By :	Loren Luo

Requirement(s):

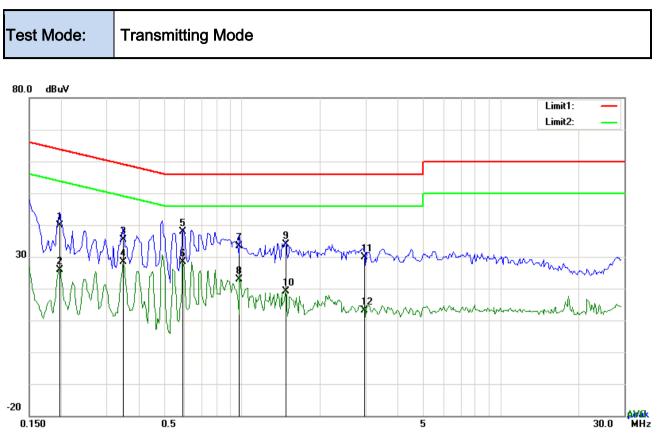
Spec	Item	Requirement			Applicable	
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	K			
Test Setup		Vertical Ground Reference Plane EUT UT Blocm UT Blocm Horizontal Ground Reference Plane Horizontal Ground Reference Plane				
Procedure	the 2. The filte	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.				

			17070205 500 02
DIE	MIC	Test Report No. Page	17070325-FCC-R3 20 of 50
A Bureau Verita	s Group Company	1 390	
	coaxial cable.		
			owered separately from another main supply.
			d to warm up to its normal operating condition.
			ne (for AC mains) or Earth line (for DC power)
			ng an EMI test receiver.
			he EMI test receiver was then tuned to the
		ies and the necessa	ry measurements made with a receiver bandwidth
	setting of 10 kHz.		
	8. Step 7 was then ro	epeated for the LIVE	line (for AC mains) or DC line (for DC power).
Remark			
Result	Pass	Fail	
Test Data	Yes Yes (See below)	N/A	



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Test Data

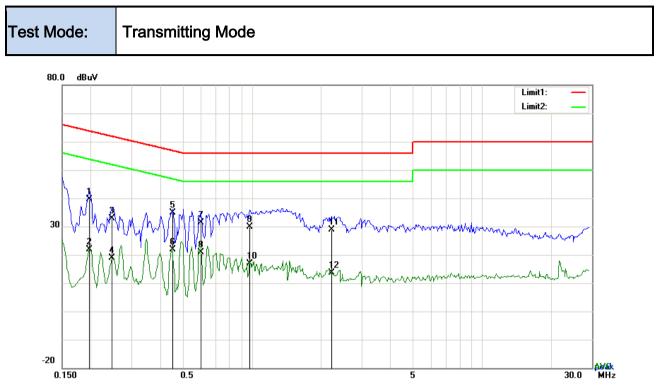
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1968	29.85	QP	10.03	39.88	63.74	-23.86
2	L1	0.1968	15.87	AVG	10.03	25.90	53.74	-27.84
3	L1	0.3465	25.23	QP	10.03	35.26	59.05	-23.79
4	L1	0.3465	18.44	AVG	10.03	28.47	49.05	-20.58
5	L1	0.5907	27.79	QP	10.03	37.82	56.00	-18.18
6	L1	0.5907	18.44	AVG	10.03	28.47	46.00	-17.53
7	L1	0.9768	23.40	QP	10.03	33.43	56.00	-22.57
8	L1	0.9768	12.85	AVG	10.03	22.88	46.00	-23.12
9	L1	1.4721	23.76	QP	10.04	33.80	56.00	-22.20
10	L1	1.4721	9.01	AVG	10.04	19.05	46.00	-26.95
11	L1	2.9658	19.77	QP	10.05	29.82	56.00	-26.18
12	L1	2.9658	3.09	AVG	10.05	13.14	46.00	-32.86



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Test Data

Phase Neutral Plot at 120Vac, 60Hz

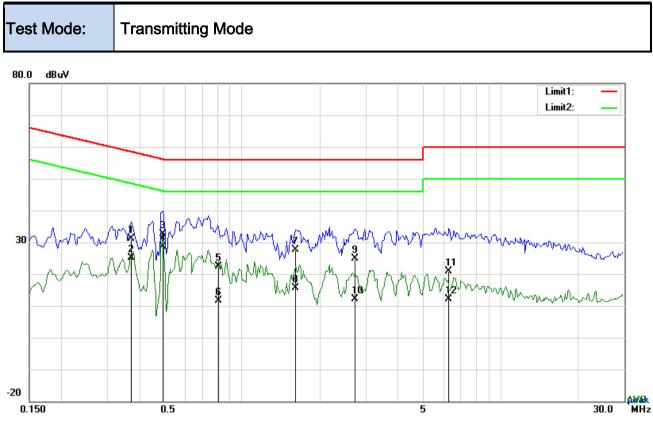
No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	Ν	0.1968	29.57	QP	10.02	39.59	63.74	-24.15
2	Ν	0.1968	11.77	AVG	10.02	21.79	53.74	-31.95
3	Ν	0.2475	22.87	QP	10.02	32.89	61.84	-28.95
4	Ν	0.2475	8.75	AVG	10.02	18.77	51.84	-33.07
5	Ν	0.4542	24.90	QP	10.02	34.92	56.80	-21.88
6	Ν	0.4542	11.83	AVG	10.02	21.85	46.80	-24.95
7	Ν	0.6024	21.36	QP	10.02	31.38	56.00	-24.62
8	Ν	0.6024	10.84	AVG	10.02	20.86	46.00	-25.14
9	Ν	0.9807	19.78	QP	10.03	29.81	56.00	-26.19
10	Ν	0.9807	6.90	AVG	10.03	16.93	46.00	-29.07
11	Ν	2.2170	18.78	QP	10.04	28.82	56.00	-27.18
12	Ν	2.2170	3.65	AVG	10.04	13.69	46.00	-32.31



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Test Data

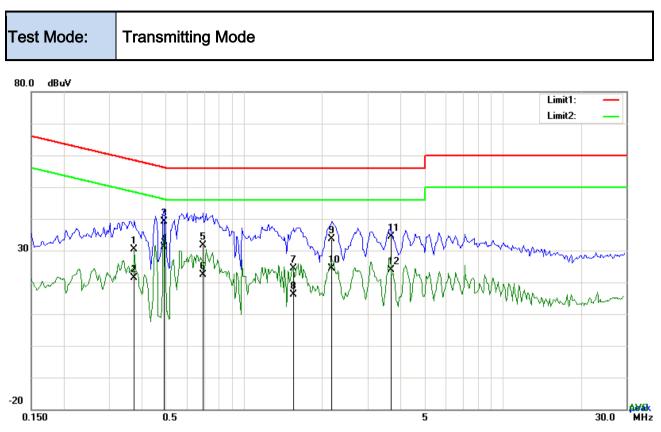
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.3723	21.12	QP	10.03	31.15	58.45	-27.30
2	L1	0.3723	15.05	AVG	10.03	25.08	48.45	-23.37
3	L1	0.4932	22.61	QP	10.03	32.64	56.11	-23.47
4	L1	0.4932	18.67	AVG	10.03	28.70	46.11	-17.41
5	L1	0.8091	12.39	QP	10.03	22.42	56.00	-33.58
6	L1	0.8091	1.50	AVG	10.03	11.53	46.00	-34.47
7	L1	1.6086	17.51	QP	10.04	27.55	56.00	-28.45
8	L1	1.6086	5.68	AVG	10.04	15.72	46.00	-30.28
9	L1	2.7318	14.71	QP	10.05	24.76	56.00	-31.24
10	L1	2.7318	2.15	AVG	10.05	12.20	46.00	-33.80
11	L1	6.3111	10.89	QP	10.10	20.99	60.00	-39.01
12	L1	6.3111	1.91	AVG	10.10	12.01	50.00	-37.99



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Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	Ν	0.3762	20.38	QP	10.02	30.40	58.36	-27.96
2	Ν	0.3762	11.34	AVG	10.02	21.36	48.36	-27.00
3	Ν	0.4893	29.03	QP	10.02	39.05	56.18	-17.13
4	Ν	0.4893	21.23	AVG	10.02 31.25		46.18	-14.93
5	Ν	0.6960	21.73	QP	10.02	31.75	56.00	-24.25
6	Ν	0.6960	12.44	AVG	10.02	22.46	46.00	-23.54
7	Ν	1.5540	14.42	QP	10.04	24.46	56.00	-31.54
8	Ν	1.5540	6.02	AVG	10.04	16.06	46.00	-29.94
9	Ν	2.1858	23.60	QP	10.04	33.64	56.00	-22.36
10	Ν	2.1858	14.34	AVG	10.04	24.38	46.00	-21.62
11	Ν	3.6942	24.22	QP	10.06	34.28	56.00	-21.72
12	Ν	3.6942	13.94	AVG	10.06	24.00	46.00	-22.00



6.7 Radiated Emissions & Restricted Band

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1012mbar
Test date :	July 10, 2017
Tested By :	Loren Luo

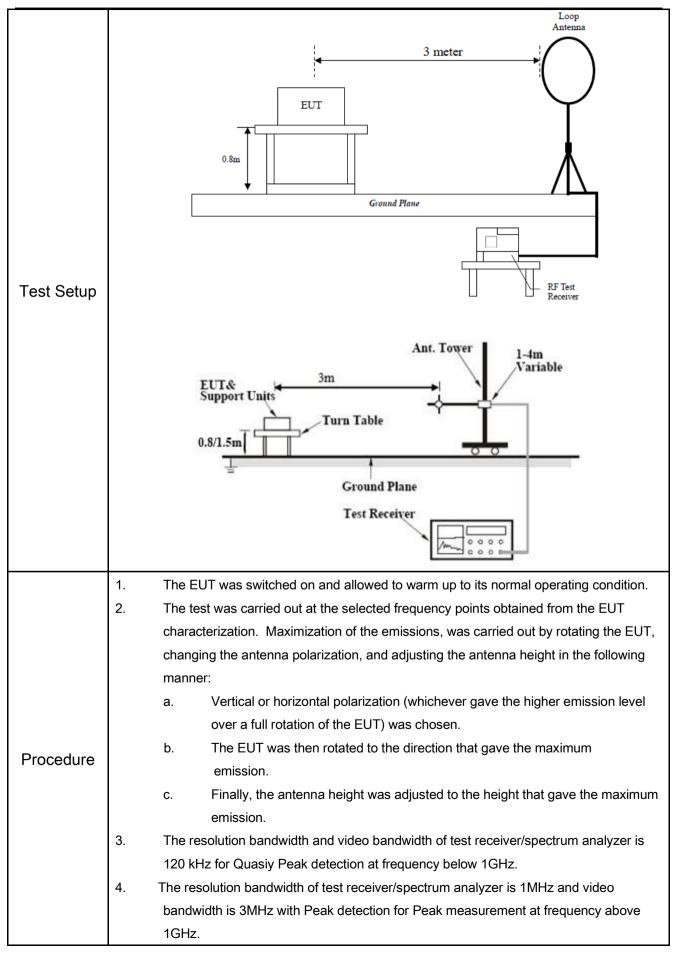
Requirement(s):

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 edges			
		Frequency range (MHz)	Field Strength (µV/m)		
	a)	0.009~0.490	2400/F(KHz)		
		0.490~1.705	24000/F(KHz)		
		1.705~30.0			
		30 - 88	100		
47CFR§15.		88 - 216	150		
247(d),		216 960			
RSS210		Above 960			
(A8.5)	b)	frequency band in which the spread modulated intentional radiator is op power that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest leve determined by the measurement m used. Attenuation below the general is not required			
	c)	or restricted band, emission must a emission limits specified in 15.209	lso comply with the radiated	V	



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3			
SIF	MIC	Test Report No.	17070325-FCC-R3
	tas Group Company	Page	27 of 50
	bandwidth is 10H frequency above	z with Peak detecti 1GHz. vere repeated for th	eiver/spectrum analyzer is 1MHz and the video on for Average Measurement as below at e next frequency point, until all selected frequency
Remark			ated but not much difference was found. The data EUT under 802.11n – HT20-2437MHz mode.
Result	Pass	Fail	
Test Data	✓ _{Yes}	N/A	

Test Plot Yes (See below)

Test Result:

Test Mode: Transmitting Mode

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

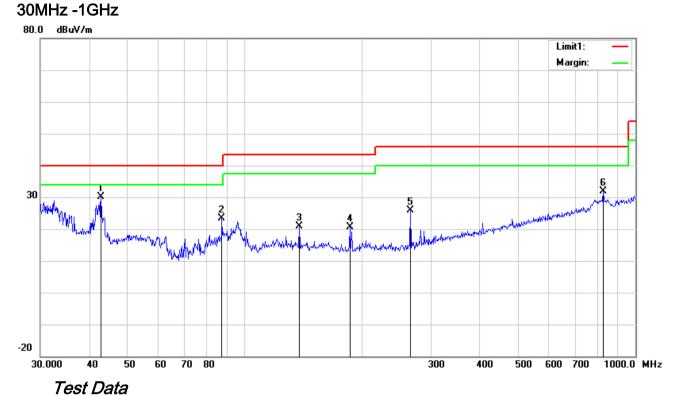
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: **Transmitting Mode**



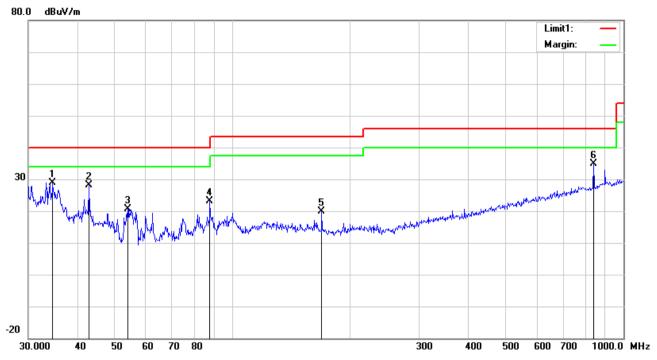
Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
				or								ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	42.8998	39.72	peak	11.99	22.29	0.77	30.19	40.00	-9.81	100	124
2	V	87.4177	36.75	peak	7.90	22.35	1.01	23.31	40.00	-16.69	100	90
3	V	137.9029	29.29	peak	12.74	22.40	1.26	20.89	43.50	-22.61	100	123
4	V	185.7882	30.04	peak	11.32	22.29	1.46	20.53	43.50	-22.97	100	164
5	V	265.6757	34.35	peak	12.09	22.29	1.73	25.88	46.00	-20.12	100	39
6	V	827.4934	28.45	peak	21.70	21.08	2.91	31.98	46.00	-14.02	100	263



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30MHz -1GHz



Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	ee ()
		((,		()	()	()	(,	(,	()	(0.1.)	()
1	Н	34.6385	32.54	peak	17.83	22.25	0.75	28.87	40.00	-11.13	100	250
2	Н	42.8998	37.62	peak	11.99	22.29	0.77	28.09	40.00	-11.91	100	217
3	н	53.8818	34.34	peak	7.97	22.39	0.78	20.70	40.00	-19.30	100	60
4	Н	87.4177	36.45	peak	7.90	22.35	1.01	23.01	40.00	-16.99	100	191
5	Н	169.0054	28.85	peak	11.88	22.26	1.36	19.83	43.50	-23.67	100	125
6	н	839.1818	31.27	peak	21.83	21.04	2.89	34.95	46.00	-11.05	200	93



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Above 1GHz

Test Mode:

Transmitting Mode

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	39.01	AV	V	33.39	7.22	48.46	31.16	54	-22.84
4804	38.37	AV	Н	33.39	7.22	48.46	30.52	54	-23.48
4804	48.97	PK	V	33.39	7.22	48.46	41.12	74	-32.88
4804	48.22	PK	Н	33.39	7.22	48.46	40.37	74	-33.63
6093	25.13	AV	V	34.81	7.21	48.35	18.8	54	-35.2
6093	24.43	AV	Н	34.81	7.21	48.35	18.1	54	-35.9
6093	40.33	PK	V	34.81	7.21	48.35	34	74	-40
6093	40.35	PK	Н	34.81	7.21	48.35	34.02	74	-39.98

Low Channel (2402 MHz)

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	39.31	AV	V	33.62	7.53	48.36	32.1	54	-21.9
4880	38.08	AV	Н	33.62	7.53	48.36	30.87	54	-23.13
4880	48.4	PK	V	33.62	7.53	48.36	41.19	74	-32.81
4880	47.22	PK	Н	33.62	7.53	48.36	40.01	74	-33.99
12805	24.46	AV	V	40.76	13.5	46.88	31.84	54	-22.16
12805	24.21	AV	Н	40.76	13.5	46.88	31.59	54	-22.41
12805	40.68	PK	V	40.76	13.5	46.88	48.06	74	-25.94
12805	40.57	PK	Н	40.76	13.5	46.88	47.95	74	-26.05



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Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.53	AV	V	33.89	7.86	48.31	31.97	54	-22.03
4960	37.91	AV	Н	33.89	7.86	48.31	31.35	54	-22.65
4960	47.83	PK	V	33.89	7.86	48.31	41.27	74	-32.73
4960	47.48	PK	Н	33.89	7.86	48.31	40.92	74	-33.08
17795	24.46	AV	V	43.21	19.44	44.4	42.71	54	-11.29
17795	24.88	AV	Н	43.21	19.44	44.4	43.13	54	-10.87
17795	40.84	PK	V	43.21	19.44	44.4	59.09	74	-14.91
17795	41.01	PK	Н	43.21	19.44	44.4	59.26	74	-14.74

High Channel (2480 MHz)

Note:

1, The testing has been conformed to 10*2480MHz=24,800MHz 2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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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	09/16/2016	09/15/2017	
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	
ISN	ISN T800	34373	09/24/2016	09/23/2017	
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	•
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	K
Power Splitter	1#	1#	08/31/2016	08/30/2017	K
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	K
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	K
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	K
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	K
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	V



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

2

30 20 40

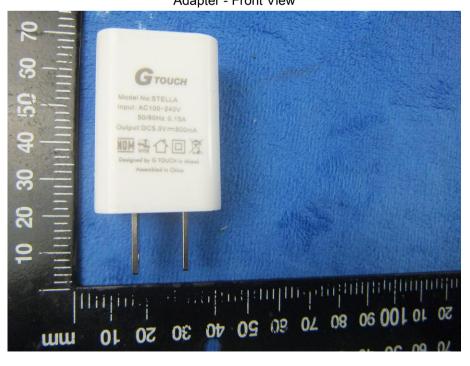
iliipo j

uw 01 50 30

Whole Package View 8 -8 2 8 Groud 50 \$ 2 8

Adapter - Front View

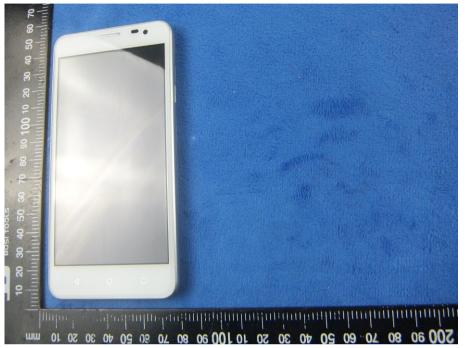
40 30 50 10 500 30 80 20 60 20 40 30 50 10 100 30 80 20 40





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EUT - Front View



EUT - Rear View





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EUT - Top View



EUT - Bottom View





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EUT - Left View



EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 2



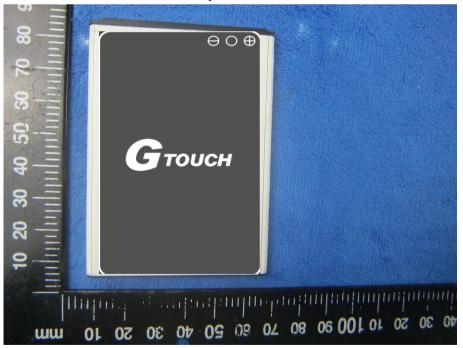


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Battery - Front View



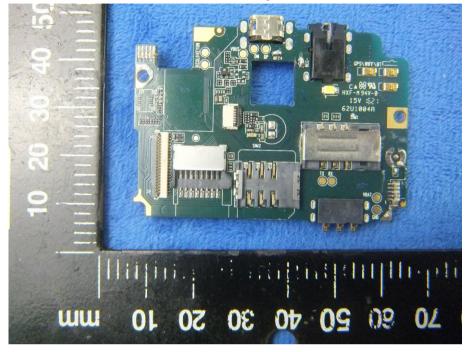
Battery - Rear View





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Mainboard with Shielding - Front View



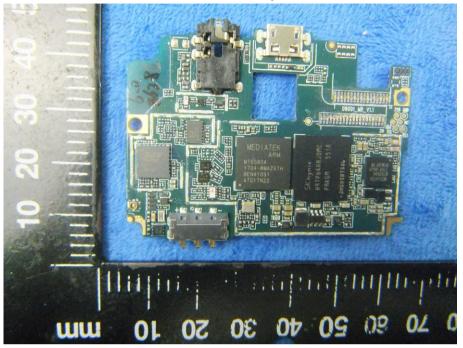
Mainboard with Shielding - Rear View



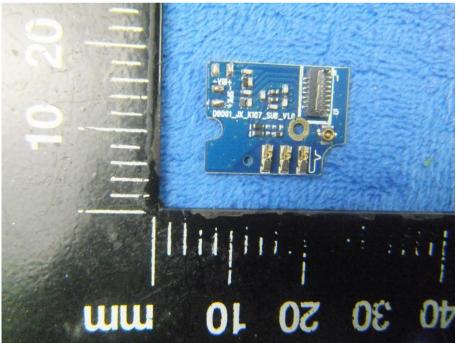


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Mainboard without Shielding - Front View



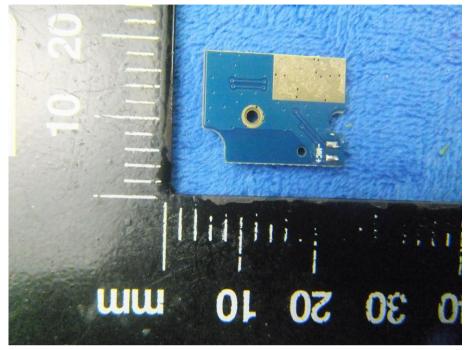
Small Mainboard - Front View





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Small Mainboard - Rear View



LCD – Front View





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LCD - Rear View



GSM/PCS/UMTS - Antenna View





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BT/WIFI - Antenna View





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Annex B.iii. Photograph: Test Setup Photo





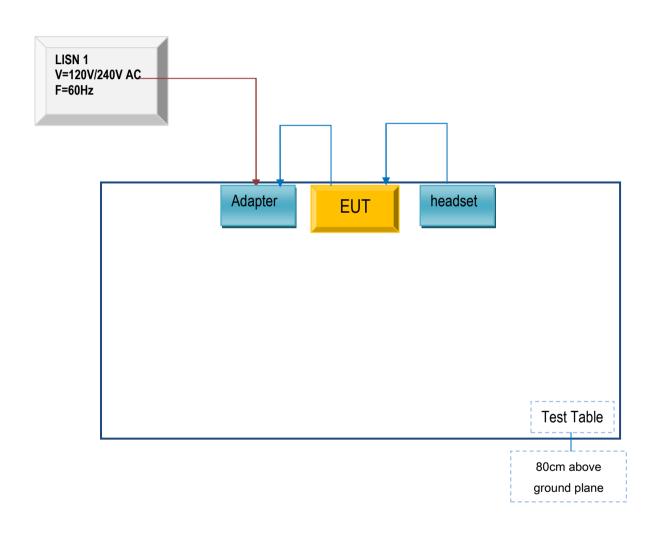
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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

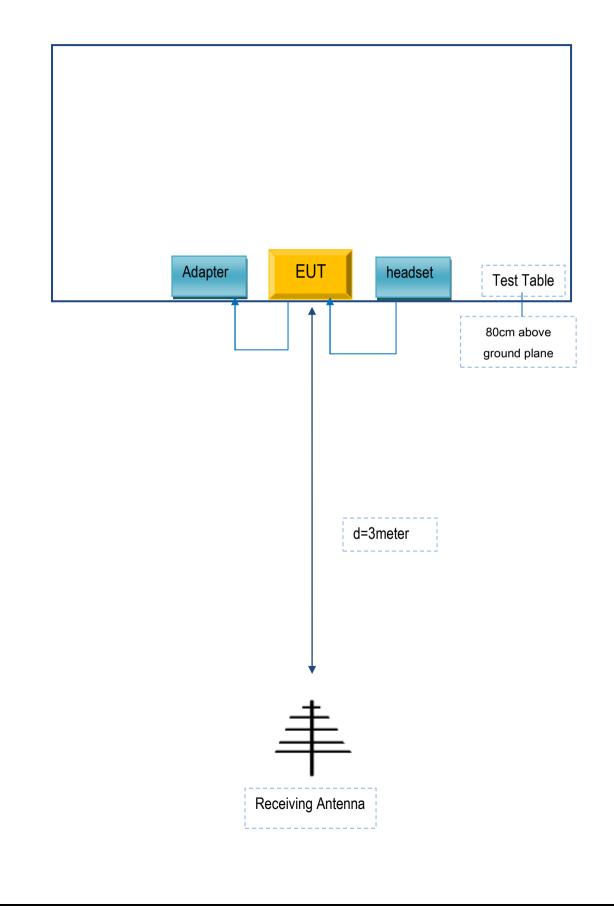
Block Configuration Diagram for AC Line Conducted Emissions





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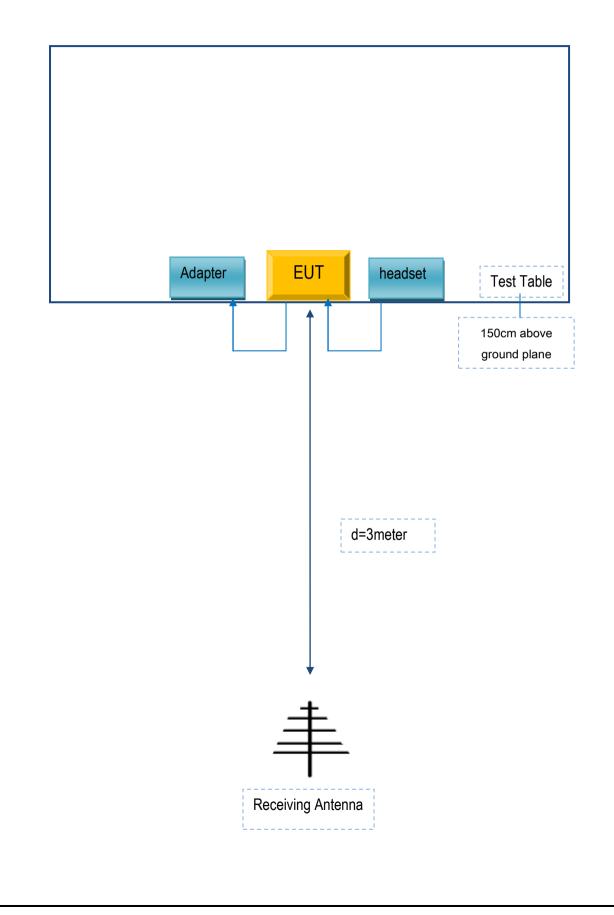
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz).





Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

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

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
G-TOUCH LLC.	Adapter	STELLA	N/A
G-TOUCH LLC.	Headset	STELLA	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A