RF TEST REPORT



Report No.: 16071296-FCC-R4
Supersede Report No.: N/A

Applicant	Posh Mobile Limited			
Product Name	Revel Max LTE			
Model No.	L551			
Serial No.	L551A,L55	1B,L551C		
Test Standard	FCC Part 1	5.247: 2015, ANSI C63.10: 2	013	
Test Date	November	November 18 to December 04, 2016		
Issue Date	December 05, 2016			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
LOVEN LUO David Huang				
Loren Luo Test Engineer		David Huang Checked 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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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
16071296-FCC-R4	NONE	Original	December 05, 2016

2. Customer information

Applicant Name	Posh Mobile Limited	
Applicant Add	1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung Street, Hung Hom,	
	Kowloon, Hong Kong	
Manufacturer	Shenzhen Posh Mobile Limited	
Manufacturer Add	Room 6H, Block C, NEO Building, Chegongmiao, Futian District, Shenzhen, P.R.	
	China	

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: Revel Max LTE

Main Model: L551

Serial Model: L551A,L551B,L551C

Date EUT received: November 17, 2016

Test Date(s): November 18 to December 04, 2016

Equipment Category: DTS

GSM850: -1.27dBi PCS1900: 0.84dBi

UMTS-FDD Band V: -1.27dBi UMTS-FDD Band IV: 0.84dBi UMTS-FDD Band II: 0.84dBi

LTE Band II: 0.54dBi

Antenna Gain: LTE Band IV: 0.84dBi

LTE Band VII: 0.9dBi LTE Band XII: -2.02dBi LTE Band XVII: -2.06dBi

WIFI: 0.87dBi

Bluetooth/BLE: 0.87dBi

GPS: 0.89dBi

Antenna Type: PIFA antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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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 IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

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

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz RF Operating Frequency (ies):

LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz

LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz

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

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

Max. Output Power: -2.276dBm

GSM 850: 124CH

PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band IV: 202CH

Number of Channels: UMTS-FDD Band II: 277CH

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: Posh



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Adapter:

Model: A88-501500

Input: AC100-240V~50/60Hz,0.35A

Input Power:
Output: DC 5.0V,1.5A

Battery:

Spec: 3.85V,2820mAh

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

FCC ID: 2AG8KL551



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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
S4E 047(4)	Band-Edge & Unwanted Emissions into Restricted	Compliance
§15.247(d)	Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209,	Radiated Spurious Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	

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 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 Bluetooth/BLE/WIFI/GPS, the gain is 0.87dBi for Bluetooth/BLE, the gain is 0.87dBi for WIFI, the gain is 0.89dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -1.27dBi for GSM850, 0.84dBi for PCS1900, -1.27dBi for UMTS-FDD Band V, 0.84dBi for UMTS-FDD Band IV, 0.84dBi for UMTS-FDD Band II. A permanently attached PIFA antenna for LTE Band II/ IV/VII/XII/XVII, the gain is 0.54dBi for LTE Band II, the gain is 0.84dBi for LTE Band IV, the gain is 0.9dBi for LTE Band VII, the gain is -2.02dBi for LTE XII, the gain is -2.06dBi for LTE Band XVII.

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	56%	
Atmospheric Pressure	1023mbar	
Test date :	November 23, 2016	
Tested By :	Loren Luo	

Spec	Item Requirement Ap		Applicable
§ 15.247(a)(2)	a) 6dB BW≥ 500kHz;		V
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V
Test Setup	Spectrum Analyzer EUT		
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 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 level measured in the fundamental emission.		
Remark			
Result	Pas	ss Fail	

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



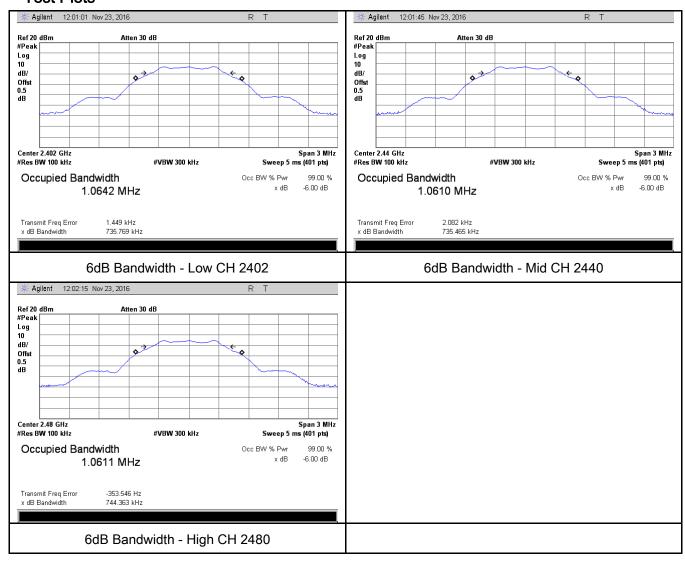
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	735.769	1.0642
Mid	2440	735.465	1.0610
High	2480	744.363	1.0611

Test Plots





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6.3 Maximum Output Power

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable			
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 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				
(7.0.1)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt				
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V			
Test Setup	Spectrum Analyzer EUT					
	558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method					
	Maximu	Maximum output power measurement procedure				
	a) Set the RBW ≥ DTS bandwidth.					
T4	b) Set VBW ≥ 3 × RBW.					
Test	c) Set span ≥ 3 x RBW					
Procedure	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						
Result	Pas	s Fail				



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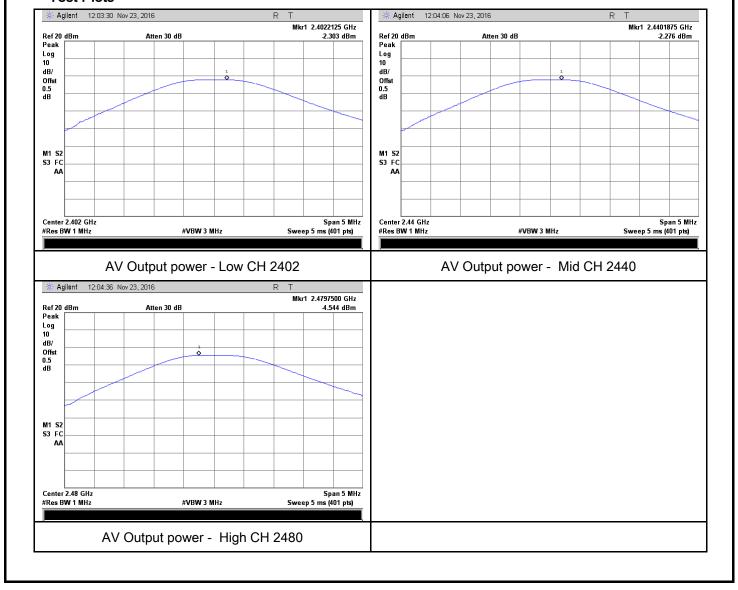
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-2.303	30	Pass
Output	Mid	2440	-2.276	30	Pass
power	High	2480	-4.544	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23, 2016
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	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 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. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.				
Remark					
Result	Pas	ss Fail			

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



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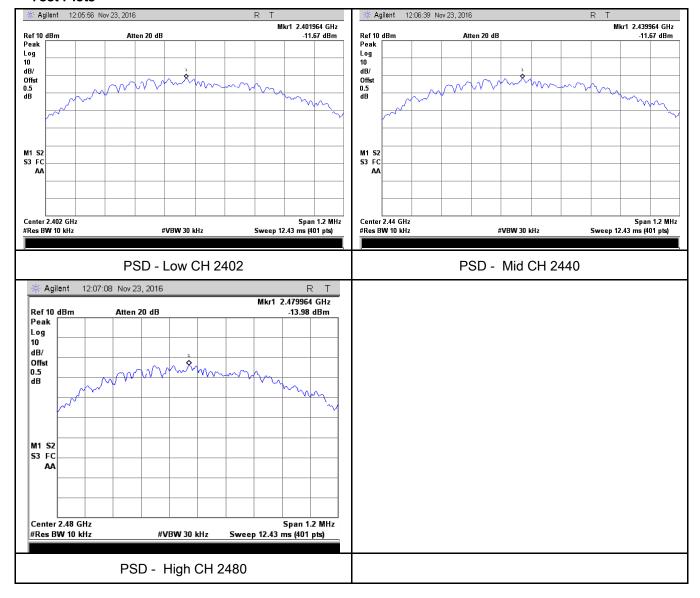
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-11.67	-5.23	-16.90	8	Pass
PSD	Mid	2440	-11.67	-5.23	-16.90	8	Pass
	High	2480	-13.98	-5.23	-19.21	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	22°C		
Relative Humidity	58%		
Atmospheric Pressure	1025mbar		
Test date :	November 25, 2016		
Tested By :	Loren Luo		

Requirement(s):

Spec	Item	Item Requirement			
§15.247(d)	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	Ant. Tower Support Units 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.				



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	- 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				
	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 is 10Hz with Peak detection for Average Measurement as below				
	at frequency above 1GHz.				
	- 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	′es M/A				

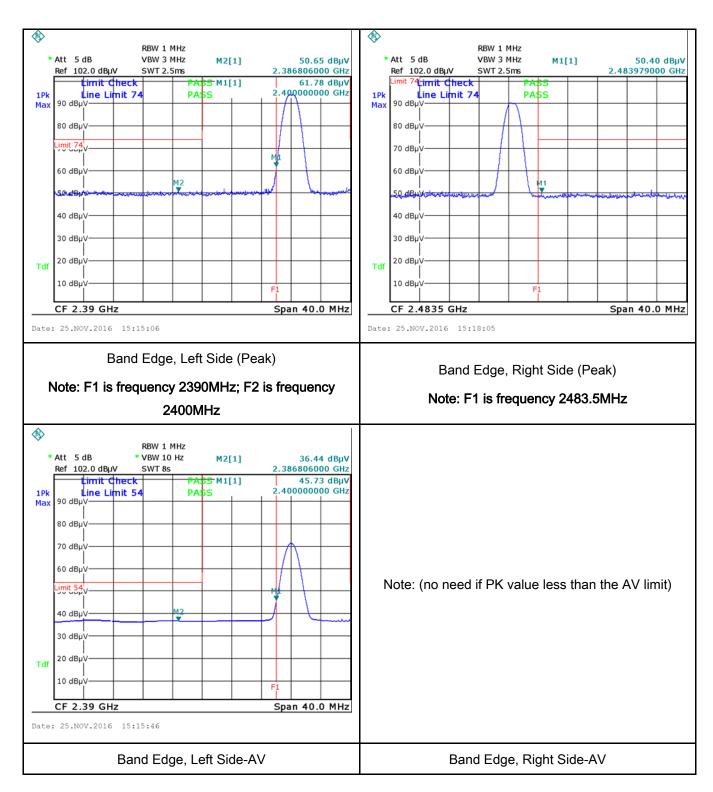
Yes (See below)

Test Plot



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Test Plots Band Edge measurement result





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6.6 AC Power Line Conducted Emissions

Temperature	22°C		
Relative Humidity	58%		
Atmospheric Pressure	1025mbar		
Test date :	November 25, 2016		
Tested By :	Loren Luo		

Requirement(s):

Spec	Item	Requirement Applical				
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges. Frequency ranges Limit (dB μ V) (MHz) QP Average 0.15 ~ 0.5 66 - 56 56 - 46				
		0.5 ~ 5 5 ~ 30	56 60	46 50		
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				
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 					



Test Plot

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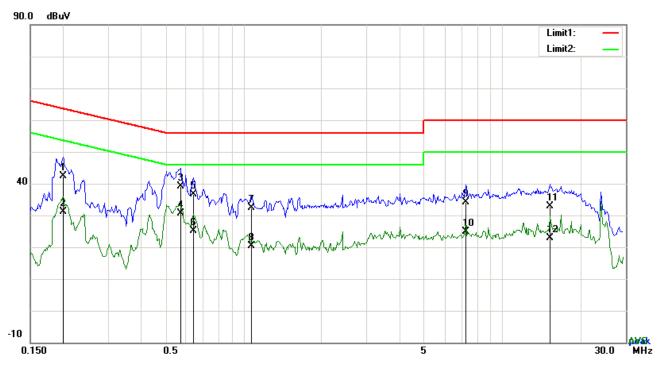
	coaxial cable.					
	4. All other supporting equipment were powered separately from another main supply.					
	5. The EUT was switched on and allowed to warm up to its normal operating condition.					
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)					
	over the required 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					

Yes (See below)



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Test Mode: Transmitting Mode



Test Data

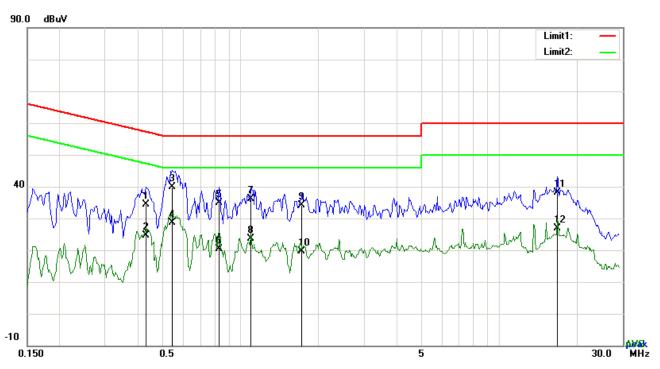
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB _µ V)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.2007	29.25	QP	13.01	42.26	63.58	-21.32
2	L1	0.2007	18.22	AVG	13.01	31.23	53.58	-22.35
3	L1	0.5712	27.24	QP	11.83	39.07	56.00	-16.93
4	L1	0.5712	18.81	AVG	11.83	30.64	46.00	-15.36
5	L1	0.6414	24.76	QP	11.76	36.52	56.00	-19.48
6	L1	0.6414	13.25	AVG	11.76	25.01	46.00	-20.99
7	L1	1.0743	20.89	QP	11.40	32.29	56.00	-23.71
8	L1	1.0743	8.88	AVG	11.40	20.28	46.00	-25.72
9	L1	7.2354	21.82	QP	12.20	34.02	60.00	-25.98
10	L1	7.2354	12.68	AVG	12.20	24.88	50.00	-25.12
11	L1	15.2772	18.77	QP	14.20	32.97	60.00	-27.03
12	L1	15.2772	8.66	AVG	14.20	22.86	50.00	-27.14



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Test Mode: Transmitting Mode



Test Data

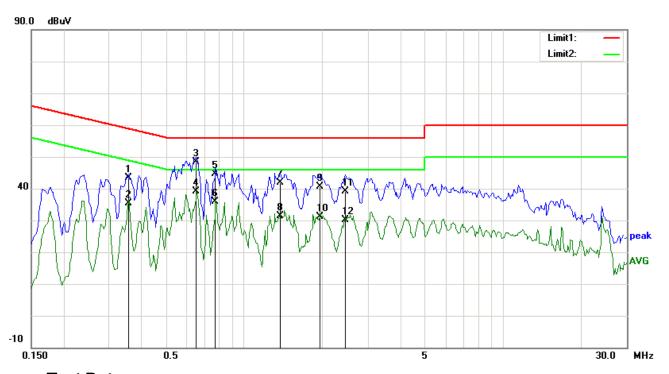
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.4308	22.21	QP	12.16	34.37	57.24	-22.87
2	Ν	0.4308	12.46	AVG	12.16	24.62	47.24	-22.62
3	Ν	0.5439	28.08	QP	11.86	39.94	56.00	-16.06
4	N	0.5439	16.80	AVG	11.86	28.66	46.00	-17.34
5	N	0.8286	23.33	QP	11.57	34.90	56.00	-21.10
6	Ν	0.8286	8.81	AVG	11.57	20.38	46.00	-25.62
7	N	1.0977	24.75	QP	11.41	36.16	56.00	-19.84
8	Ν	1.0977	12.30	AVG	11.41	23.71	46.00	-22.29
9	Ν	1.7295	22.59	QP	11.49	34.08	56.00	-21.92
10	Ν	1.7295	8.07	AVG	11.49	19.56	46.00	-26.44
11	N	16.8177	23.74	QP	14.50	38.24	60.00	-21.76
12	N	16.8177	12.31	AVG	14.50	26.81	50.00	-23.19



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Test Mode:	Transmitting Mode
	_



Test Data

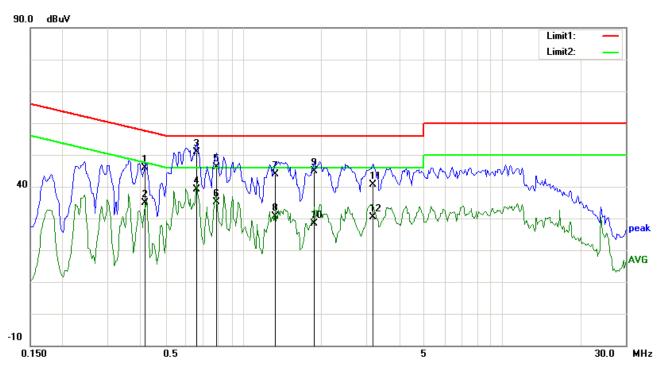
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.3567	31.05	QP	12.43	43.48	58.80	-15.32
2	L1	0.3567	23.02	AVG	12.43	35.45	48.80	-13.35
3	L1	0.6531	36.62	QP	11.75	48.37	56.00	-7.63
4	L1	0.6531	27.45	AVG	11.75	39.20	46.00	-6.80
5	L1	0.7740	33.00	QP	11.63	44.63	56.00	-11.37
6	L1	0.7740	24.24	AVG	11.63	35.87	46.00	-10.13
7	L1	1.3746	30.46	QP	11.40	41.86	56.00	-14.14
8	L1	1.3746	19.92	AVG	11.40	31.32	46.00	-14.68
9	L1	1.9596	29.15	QP	11.40	40.55	56.00	-15.45
10	L1	1.9596	19.80	AVG	11.40	31.20	46.00	-14.80
11	L1	2.4510	27.79	QP	11.40	39.19	56.00	-16.81
12	L1	2.4510	18.66	AVG	11.40	30.06	46.00	-15.94



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Test Mode:	Transmitting Mode
	_



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	N	0.4191	33.62	QP	12.20	45.82	57.47	-11.65
2	N	0.4191	22.59	AVG	12.20	34.79	47.47	-12.68
3	N	0.6609	39.19	QP	11.74	50.93	56.00	-5.07
4	N	0.6609	27.38	AVG	11.74	39.12	46.00	-6.88
5	N	0.7857	34.46	QP	11.61	46.07	56.00	-9.93
6	N	0.7857	23.58	AVG	11.61	35.19	46.00	-10.81
7	N	1.3239	32.45	QP	11.44	43.89	56.00	-12.11
8	N	1.3239	19.15	AVG	11.44	30.59	46.00	-15.41
9	N	1.8777	33.36	QP	11.51	44.87	56.00	-11.13
10	N	1.8777	16.82	AVG	11.51	28.33	46.00	-17.67
11	N	3.1638	29.08	QP	11.67	40.75	56.00	-15.25
12	N	3.1638	18.76	AVG	11.67	30.43	46.00	-15.57



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6.7 Radiated Spurious Emissions & Restricted Band

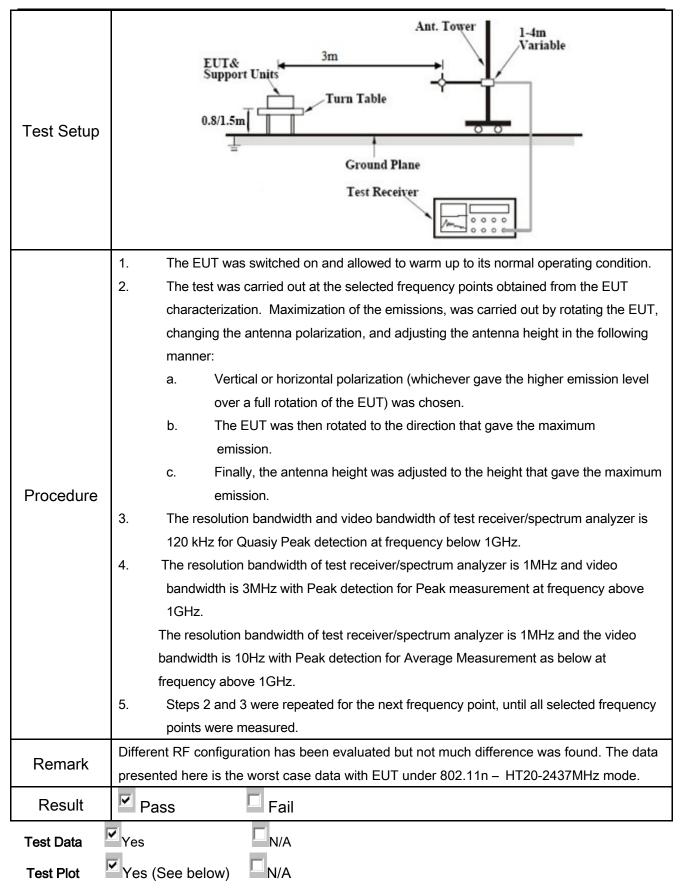
Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	November 25, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement		Applicable	
		Except higher limit as specified else emissions from the low-power radional exceed the field strength levels specified the level of any unwanted emission the fundamental emission. The tiglinedges	<u><</u>		
	a)	Frequency range (MHz)	Field Strength (µV/m)	_	
		30 - 88	100		
		88 – 216	150		
47CFR§15.		216 960	200		
247(d),		Above 960	500		
RSS210		For non-restricted band, In any 10	0 kHz bandwidth outside the		
		frequency band in which the sprea	V		
(A8.5)	b)	modulated intentional radiator is of			
		power that is produced by the intentional radiator shall be at least			
		20 dB or 30dB below that in the 10			
		band that contains the highest leve			
		determined by the measurement n			
		used. Attenuation below the gener			
		is not required			
		20 dB down 30	dB down		
	<u> </u>	or restricted band, emission must a			
	c)	emission limits specified in 15.209			



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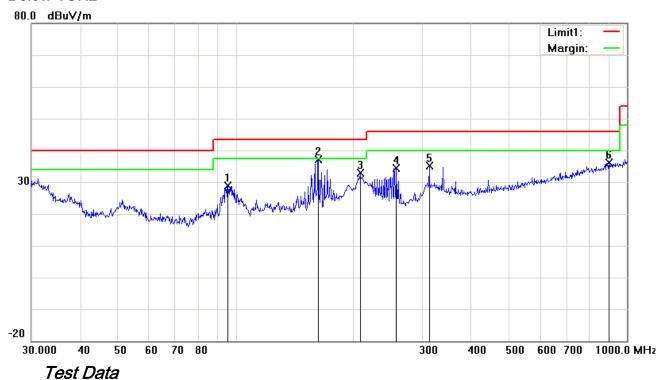




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Test Mode: Transmitting Mode

Below 1GHz



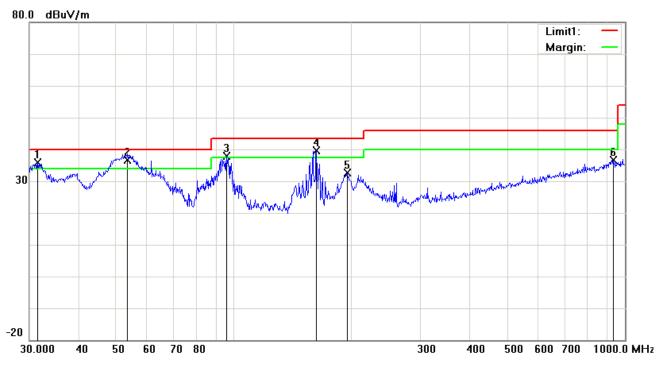
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	Н	95.4270	40.90	peak	-12.02	28.88	43.50	-14.62	100	130
2	Н	162.6106	45.55	peak	-8.50	37.05	43.50	-6.45	100	92
3	Н	207.8501	41.81	peak	-8.81	33.00	43.50	-10.50	100	139
4	Н	257.4222	43.30	peak	-8.85	34.45	46.00	-11.55	100	283
5	Н	312.1794	41.70	peak	-6.55	35.15	46.00	-10.85	100	76
6	Н	900.1474	31.37	peak	4.69	36.06	46.00	-9.94	100	59



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Below 1GHz



Test Data

Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Dete ctor	Correcte d (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	V	31.5095	37.36	QP	-1.37	35.99	40.00	-4.01	100	320
2	V	53.5052	50.16	QP	-13.59	36.57	40.00	-3.43	100	82
3	V	95.7622	49.89	QP	-11.93	37.96	43.50	-5.54	100	97
4	V	162.6106	48.16	QP	-8.50	39.66	43.50	-3.84	100	132
5	V	195.1365	41.51	peak	-8.98	32.53	43.50	-10.97	100	164
6	V	932.2715	31.56	peak	4.97	36.53	46.00	-9.47	100	285



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Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel (2402 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)
4804	37.26	AV	V	33.83	6.86	31.72	46.23	54	-7.77
4804	36.57	AV	Н	33.83	6.86	31.72	45.54	54	-8.46
4804	47.19	PK	V	33.83	6.86	31.72	56.16	74	-17.84
4804	46.37	PK	Н	33.83	6.86	31.72	55.34	74	-18.66
17814	23.18	AV	V	45.03	11.21	32.38	47.04	54	-6.96
17814	22.94	AV	Н	45.03	11.21	32.38	46.8	54	-7.2
17814	40.12	PK	V	45.03	11.21	32.38	63.98	74	-10.02
17814	39.58	PK	Н	45.03	11.21	32.38	63.44	74	-10.56

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	38.06	AV	V	33.86	6.82	31.82	46.92	54	-7.08
4880	37.52	AV	Ι	33.86	6.82	31.82	46.38	54	-7.62
4880	48.11	PK	V	33.86	6.82	31.82	56.97	74	-17.03
4880	47.62	PK	Ι	33.86	6.82	31.82	56.48	74	-17.52
17823	24.25	AV	٧	45.15	11.18	32.41	48.17	54	-5.83
17823	23.81	AV	Η	45.15	11.18	32.41	47.73	54	-6.27
17823	40.85	PK	V	45.15	11.18	32.41	64.77	74	-9.23
17823	40.32	PK	Н	45.15	11.18	32.41	64.24	74	-9.76



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High Channel (2480 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)
4960	37.68	AV	V	33.9	6.76	31.92	46.42	54	-7.58
4960	37.15	AV	Η	33.9	6.76	31.92	45.89	54	-8.11
4960	47.53	PK	V	33.9	6.76	31.92	56.27	74	-17.73
4960	47.21	PK	Ι	33.9	6.76	31.92	55.95	74	-18.05
17782	24.18	AV	٧	45.22	11.35	32.38	48.37	54	-5.63
17782	23.66	AV	Η	45.22	11.35	32.38	47.85	54	-6.15
17782	41.23	PK	V	45.22	11.35	32.38	65.42	74	-8.58
17782	40.87	PK	Н	45.22	11.35	32.38	65.06	74	-8.94

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

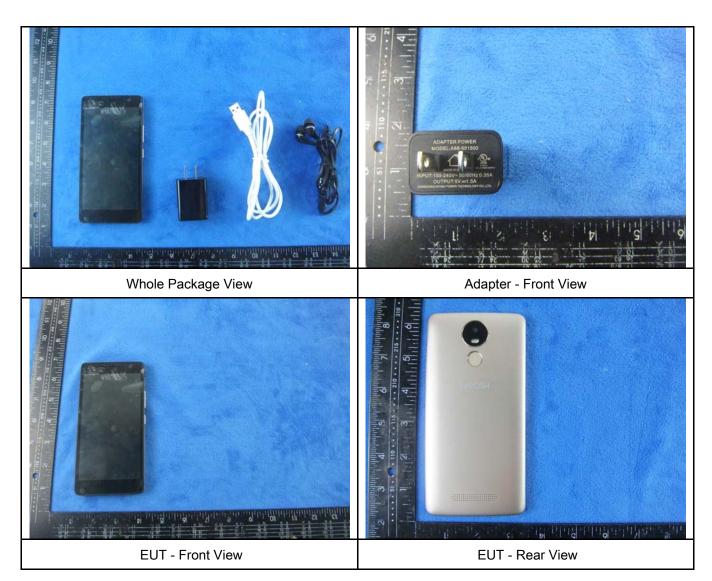
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	~
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	~
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	~
LISN	ISN T800	34373	09/24/2016	09/23/2017	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
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	~
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	✓
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	~
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





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EUT - Top View









EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo



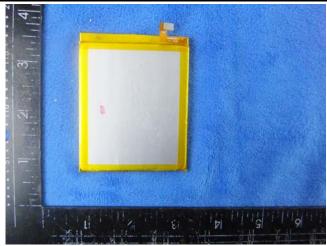
Cover Off - Top View 1



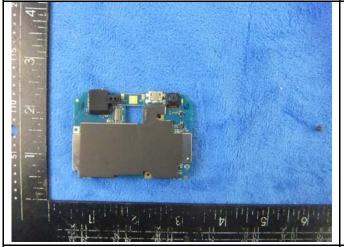
Cover Off - Top View 2



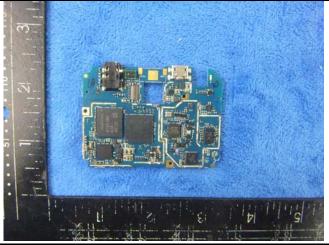
Battery - Front View



Battery - Rear View



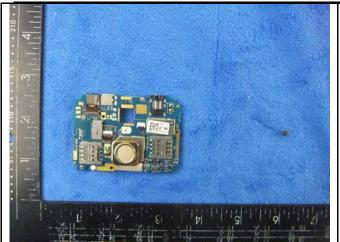
Mainboard with Shielding - Front View



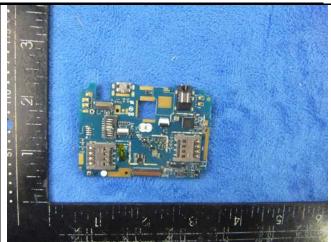
Mainboard without Shielding - Front View



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Mainboard with Shielding - Rear View



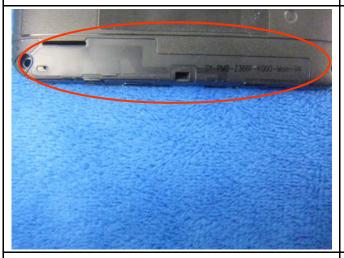
Mainboard without Shielding - Rear View



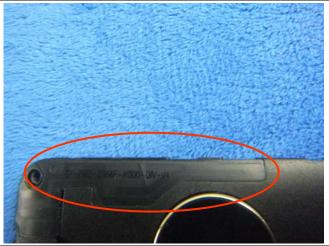
LCD - Front View



LCD - Rear View



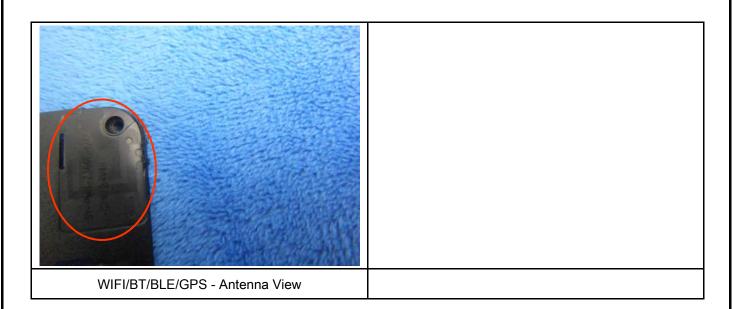
GSM/PCS/UMTS-FDD Antenna View



LTE - Antenna View



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Annex B.iii. Photograph: Test Setup Photo



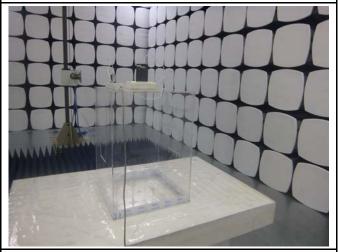
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

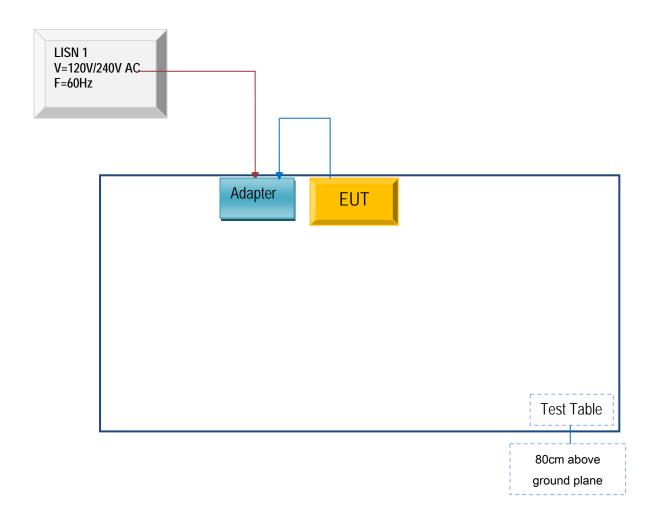


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

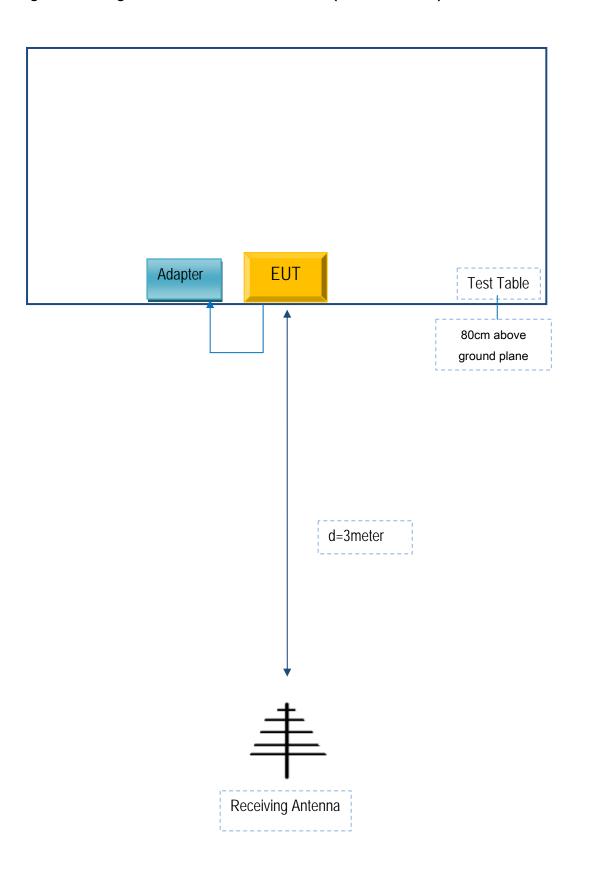
Block Configuration Diagram for AC Line Conducted Emissions





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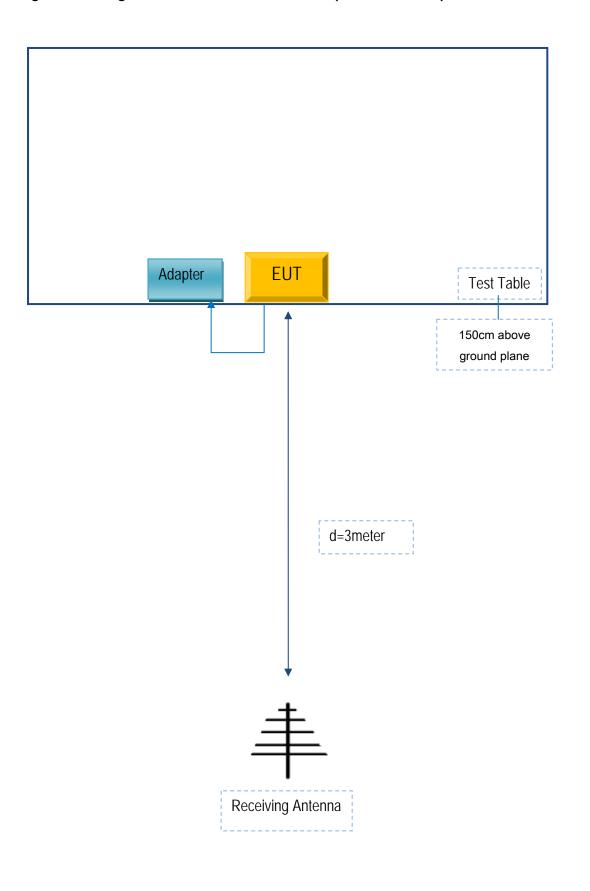
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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





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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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Posh Mobile Limited	Adapter	A88-501500	S0523DF2

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	S0523DF2



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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

Posh Mobile Limited

To: SIEMIC,775 Montague Expressway, Milpitas, CA95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 4 model numbers on the FCC certificates and reports, as following:

Model No.: L551 L551A L551B L551C

We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same.

The difference of these is listed as below:

Main Model No.	Serial Model No.	Difference
L551	L551A L551B L551C	Different model name and color

Thank you!

Signature:

Printed name/title: Warren Chan

Address: 1011A, 10/F., Harbour Centre Tower 1 No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong