# EMC TEST REPORT



Report No.: 16071169-FCC-E Supersede Report No: N/A

Applicant	Juniper Systems Inc				
Product Name	4G Tablet PC				
Model No.	CT7G				
Serial No.	N/A	N/A			
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014				
Test Date	September 21 to October 24, 2016				
Issue Date	November 08, 2016				
Test Result	Pass Fail				
Equipment complied with the specification					
Equipment did not comply with the specification					
LOVEN LUO David Huang					
Loren Luo Test Engineer			Huang ked 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

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**

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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
16071169-FCC-E	NONE	Original	October 25, 2016
40074400 FOO F		Updated the product	November 08, 2016
16071169-FCC-E	V1	equipment category	

# 2. Customer information

Applicant Name	Juniper Systems Inc	
Applicant Add	1132W 1700N, Logan, Utah 84321,United States	
Manufacturer	Juniper Systems Inc	
Manufacturer Add	1132W 1700N, Logan, Utah 84321,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, Guangdor		
	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:	4G Tablet PC

Main Model: CT7G

Serial Model: N/A

GSM850: 1.5dBi PCS1900: 1.5dBi

UMTS-FDD Band V:1.5dBi UMTS-FDD Band II:1.5dBi

Antenna Gain: LTE Band IV:1.5dBi
LTE Band V: 1.5dBi

LTE Band VII: 1.5dBi LTE Band XVII: 1.5dBi

Bluetooth/BLE/WIFI:1.5dBi

GPS:1.5dBi

Antenna Type: PIFA antenna

Battery:

Input Power: Spec: 3.7V

Equipment Category: JBC

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

Type of Modulation: LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK,  $\pi$  /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 II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

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

RF Operating Frequency (ies): LTE Band V TX: 826.5 ~ 846.5 MHz; RX: 871.5 ~ 891.5 MHz

LTE Band VII TX:  $2502.5 \sim 2567.5$  MHz; RX :  $2622.5 \sim 2687.5$  MHz LTE Band XVII TX:  $706.5 \sim 713.5$  MHz; RX :  $736.5 \sim 743.5$  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

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 : Cedar

FCC ID: VSFCT7G

Date EUT received: September 20, 2016

Test Date(s): September 21 to October 24, 2016



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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
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

#### **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 AC Power Line Conducted Emissions

Temperature	23°C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	October 14, 2016
Tested By:	Loren Luo

#### Requirement(s):

Spec	Item	Requirement Applicable				
47CFR§15. 107	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencied not exceed the limits in [mu] H/50 ohms line implower limit applies at the	c utility (AC) power line ed back onto the AC poses, within the band 150 the following table, as apedance stabilization r	the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The	<b>&gt;</b>	
107		Frequency ranges	Limit (	dBμV)		
		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup	Vertical Ground Reference Plane  EUT  ### Reference Plane    Test Receiver					
	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	<ol> <li>The EUT and supporting equipment were set up in accordance with the requirements the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to the standard on the supply for the EUT was fed through a 50Ω /50mH EUT LISN.</li> </ol>					
Procedure	The EUT and supporting equipment were set up in accordance with the received standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.					



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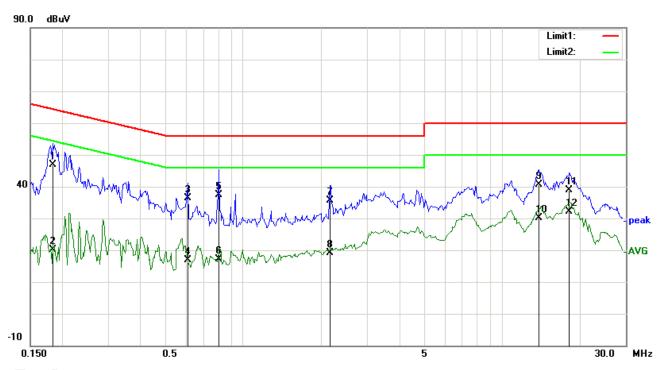
	<ol> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>All other supporting equipment were powered separately from another main supply.</li> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>A scan 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.</li> <li>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.</li> <li>Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
Remark	
Result	Pass Fail
_	Yes N/A Yes (See below)
Test Mode 1:	USB Mode
Test Mode 2:	MP4 Mode
Test Mode 3:	Camera Mode
Test Mode 4:	SD Card Mode

All modes were investigated. But only show the worst result case as below.



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## Test Mode 1 : USB Mode



#### Test Data

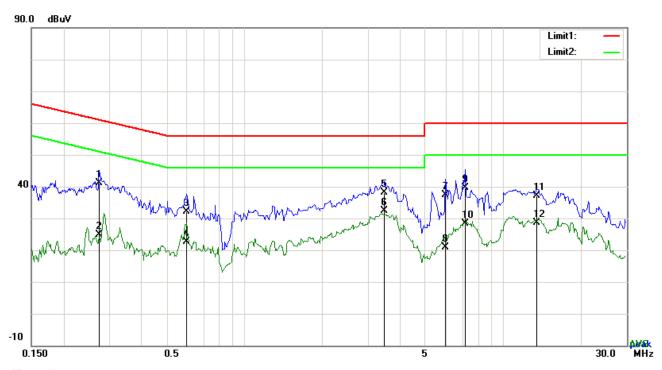
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1835	36.76	QP	10.03	46.79	64.33	-17.54
2	L1	0.1835	10.02	AVG	10.03	20.05	54.33	-34.28
3	L1	0.6102	26.26	QP	10.03	36.29	56.00	-19.71
4	L1	0.6102	6.93	AVG	10.03	16.96	46.00	-29.04
5	L1	0.8013	27.27	QP	10.03	37.30	56.00	-18.70
6	L1	0.8013	6.98	AVG	10.03	17.01	46.00	-28.99
7	L1	2.1663	25.63	QP	10.04	35.67	56.00	-20.33
8	L1	2.1663	9.02	AVG	10.04	19.06	46.00	-26.94
9	L1	13.9122	30.46	QP	10.21	40.67	60.00	-19.33
10	L1	13.9122	19.96	AVG	10.21	30.17	50.00	-19.83
11	L1	18.1749	28.55	QP	10.27	38.82	60.00	-21.18
12	L1	18.1749	21.84	AVG	10.27	32.11	50.00	-17.89



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Test Mode 1: USB Mode



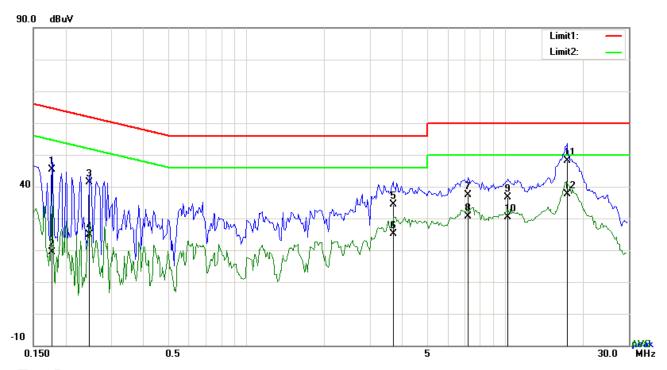
#### Test Data

#### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2748	31.02	QP	10.02	41.04	60.97	-19.93
2	Ν	0.2748	14.78	AVG	10.02	24.80	50.97	-26.17
3	N	0.5985	22.20	QP	10.02	32.22	56.00	-23.78
4	N	0.5985	12.71	AVG	10.02	22.73	46.00	-23.27
5	N	3.4602	28.16	QP	10.05	38.21	56.00	-17.79
6	N	3.4602	22.39	AVG	10.05	32.44	46.00	-13.56
7	N	5.9640	27.23	QP	10.08	37.31	60.00	-22.69
8	N	5.9640	10.78	AVG	10.08	20.86	50.00	-29.14
9	Ν	7.1028	29.46	QP	10.10	39.56	60.00	-20.44
10	Ν	7.1028	18.23	AVG	10.10	28.33	50.00	-21.67
11	N	13.4715	26.90	QP	10.18	37.08	60.00	-22.92
12	Ν	13.4715	18.52	AVG	10.18	28.70	50.00	-21.30



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Test Data

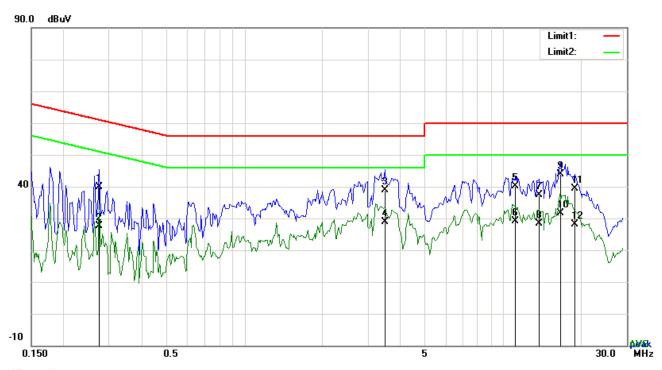
### Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1773	35.35	QP	10.03	45.38	64.61	-19.23
2	L1	0.1773	9.29	AVG	10.03	19.32	54.61	-35.29
3	L1	0.2475	31.34	QP	10.03	41.37	61.84	-20.47
4	L1	0.2475	14.88	AVG	10.03	24.91	51.84	-26.93
5	L1	3.6942	24.38	QP	10.06	34.44	56.00	-21.56
6	L1	3.6942	15.19	AVG	10.06	25.25	46.00	-20.75
7	L1	7.1886	27.20	QP	10.11	37.31	60.00	-22.69
8	L1	7.1886	20.62	AVG	10.11	30.73	50.00	-19.27
9	L1	10.2150	26.49	QP	10.15	36.64	60.00	-23.36
10	L1	10.2150	20.14	AVG	10.15	30.29	50.00	-19.71
11	L1	17.3676	37.75	QP	10.26	48.01	60.00	-11.99
12	L1	17.3676	27.27	AVG	10.26	37.53	50.00	-12.47



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Test Mode 1:	USB	Mode



#### Test Data

#### Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2748	29.83	QP	10.02	39.85	60.97	-21.12
2	N	0.2748	17.63	AVG	10.02	27.65	50.97	-23.32
3	N	3.5031	28.79	QP	10.06	38.85	56.00	-17.15
4	N	3.5031	18.77	AVG	10.06	28.83	46.00	-17.17
5	N	11.1510	29.94	QP	10.15	40.09	60.00	-19.91
6	N	11.1510	18.94	AVG	10.15	29.09	50.00	-20.91
7	N	13.7250	27.11	QP	10.18	37.29	60.00	-22.71
8	N	13.7250	18.26	AVG	10.18	28.44	50.00	-21.56
9	N	16.6851	33.76	QP	10.22	43.98	60.00	-16.02
10	N	16.6851	21.48	AVG	10.22	31.70	50.00	-18.30
11	N	18.9081	29.06	QP	10.25	39.31	60.00	-20.69
12	N	18.9081	17.84	AVG	10.25	28.09	50.00	-21.91



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## 6.2 Radiated Emissions

Temperature	23°C	
Relative Humidity	56%	
Atmospheric Pressure	1014mbar	
Test date :	October 14, 2016	
Tested By:	Loren Luo	

#### Requirement(s):

Spec	Item	Item Requirement Applicable			
47CFR§15. 109(d)	a)	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 tight edges  Frequency range (MHz)  30 - 88  88 - 216  216 960	o-frequency devices shall not cified in the following table and s shall not exceed the level of ter limit applies at the band  Field Strength (µV/m)  100  150  200	V	
Test Setup	Ant. Tower Variable  Support Units  Ground Plane Test Receiver				
Procedure	The EUT was switched on and allowed to warm up to its normal operating condition.  The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:  a. Vertical or horizontal polarization (whichever gave the higher emission level)				



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	over a full rotation of the EUT) was chosen.
	b. The EUT was then rotated to the direction that gave the maximum
	emission.
	c. Finally, the antenna height was adjusted to the height that gave the maximum
	emission.
	The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kHz for Quasiy Peak detection at frequency below 1GHz.
	4. 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.
	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%)
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency
	points were measured.
Davasada	
Remark	
Result	Pass Fail
T 1 D. 1	Yes N/A
Test Data	Yes N/A
Test Plot	Yes (See below)
Test Mode 1:	USB Mode
TOST WICKE T.	OOD WOOD
Test Mode 2:	MP4 Mode
Test Mode 3:	Camera Mode
Test Mode 4:	SD Card Mode

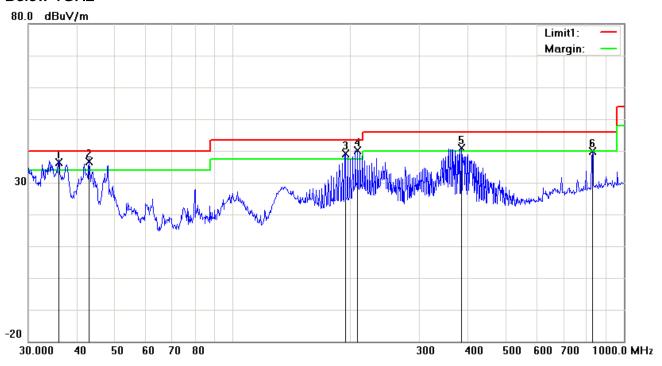
All modes were investigated. But only show the worst result case as below.



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Test Mode 1: USB Mode

#### Below 1GHz



#### Test Data

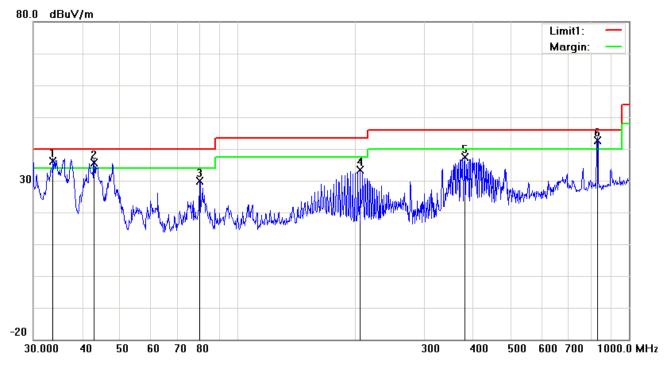
#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	( ° )
1	Н	35.8747	40.94	QP	-4.58	36.36	40.00	-3.64	100	57
2	Н	42.8998	46.08	QP	-9.53	36.55	40.00	-3.45	100	43
3	Н	193.7728	48.09	QP	-9.04	39.05	43.50	-4.45	100	112
4	Н	208.5803	49.01	QP	-8.81	40.20	43.50	-3.30	100	219
5	Н	383.9318	45.56	QP	-4.67	40.89	46.00	-5.11	100	56
6	Н	830.4002	36.25	QP	3.57	39.82	46.00	-6.18	100	135



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#### Below 1GHz



#### Test Data

### Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	(°)
1	>	33.6803	39.16	QP	-2.97	36.19	40.00	-3.81	100	323
2	٧	42.8998	45.23	QP	-9.53	35.70	40.00	-4.30	100	38
3	٧	79.8003	43.68	peak	-13.77	29.91	40.00	-10.09	100	95
4	٧	205.6751	42.12	peak	-8.79	33.33	43.50	-10.17	100	195
5	٧	381.2487	42.11	peak	-4.73	37.38	46.00	-8.62	100	289
6	V	830.4002	39.00	QP	3.57	42.57	46.00	-3.43	100	164



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#### Above 1GHz

Frequency (MHz)	Amplitude (dBµV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1552.38	50.24	88	160	V	-21.69	74	-23.76	PK
2067.45	50.47	99	122	V	-21.58	74	-23.53	PK
1686.92	50.15	66	172	V	-21.76	74	-23.85	PK
2167.48	49.33	75	166	Н	-21.48	74	-24.67	PK
2839.55	48.46	44	177	Н	-21.38	74	-25.54	PK
1889.45	50.59	81	110	Н	-21.45	74	-23.41	PK

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5\*2472MHz=12,360MHz.

Note 2: The frequency that above 3GHz is mainly from the environment noise.

Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



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# Annex A. TEST INSTRUMENT

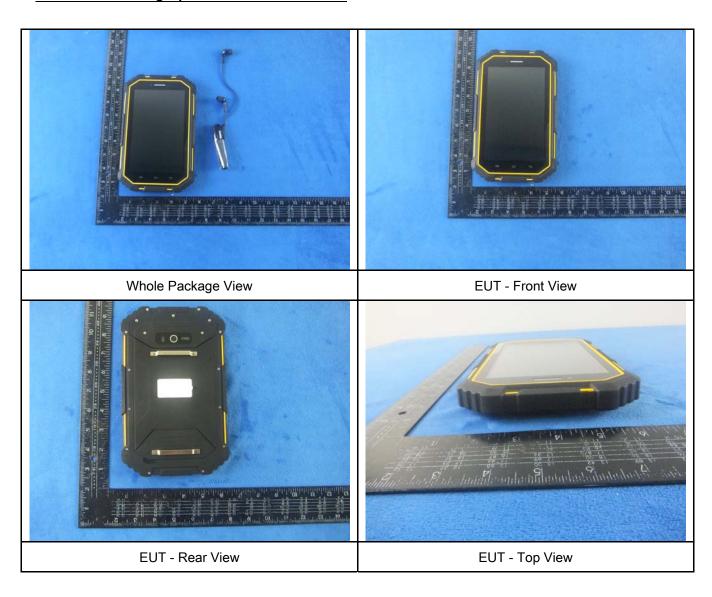
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	>
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<b>&gt;</b>
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<b>(</b>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<b>&gt;</b>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<b>\</b>
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<b>\</b>



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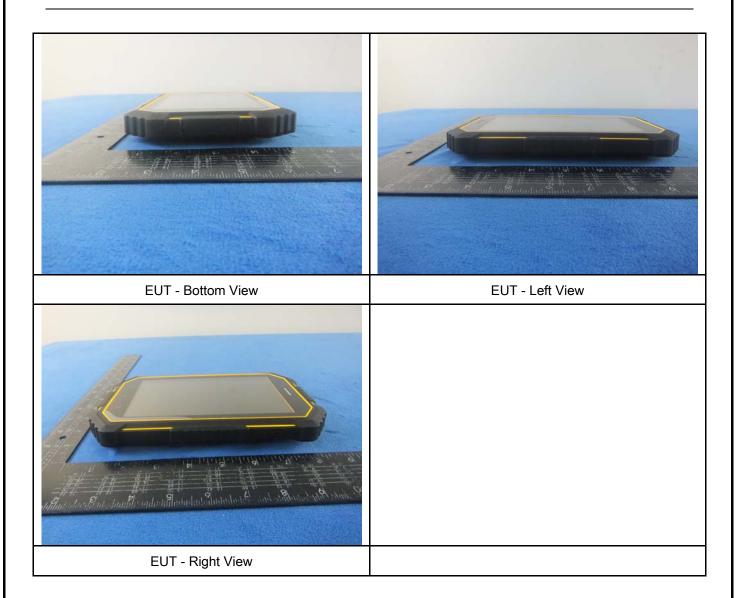
# Annex B. EUT And Test Setup Photographs

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





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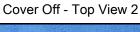
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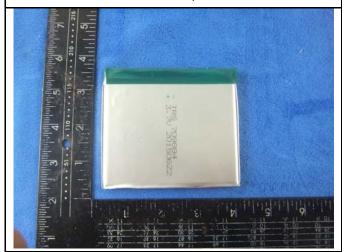
#### Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

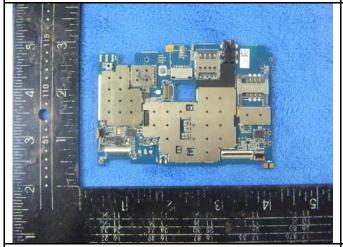








Battery - Rear View



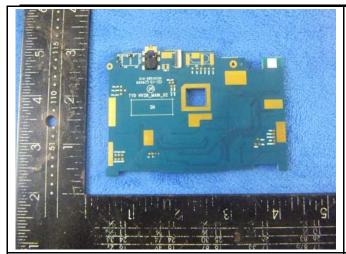
Mainboard with sheilding - Front View



Mainboard witout sheilding - Front View

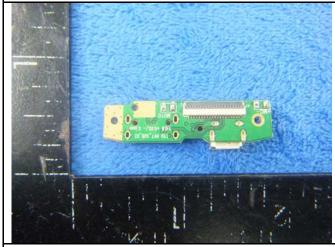


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Mainboard - Rear View

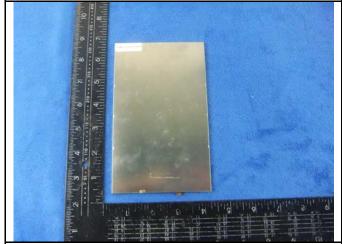
USB board - Front View





USB board - Rear View

LCD - Feont View



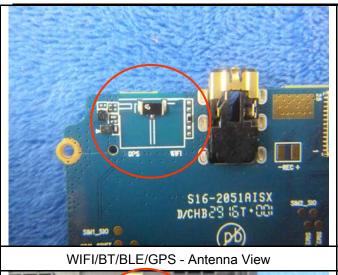


LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View



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LTE Antenna View

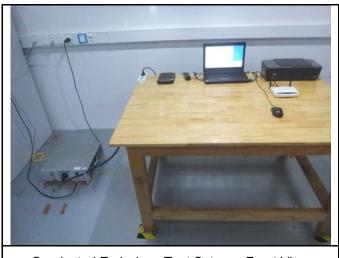


NFC - Antenna View



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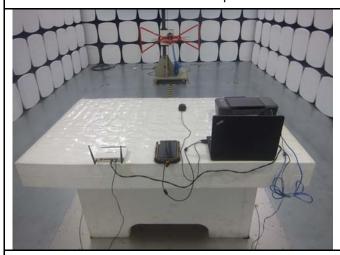
### Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



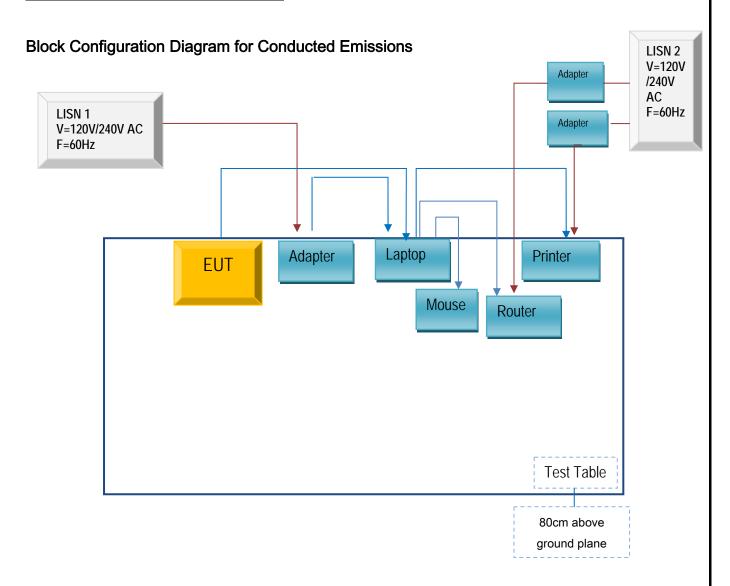
Radiated Emissions Test Setup Above 1GHz



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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

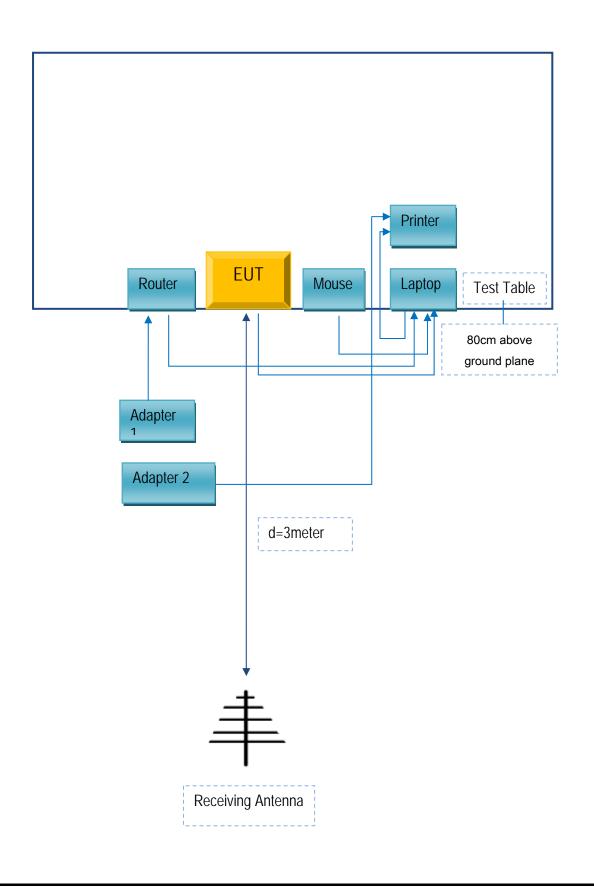
#### Annex C.ii. TEST SET UP BLOCK





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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.

#### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

#### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032



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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