RF TEST REPORT



Report No.: 15071127-FCC-R4
Supersede Report No.: N/A

Applicant	VeryKool USA Inc			
Product Name	Tablet	Tablet		
Model No.	T7442			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2014, ANSI C63.10: 2	013	
Test Date	November	November 24 to December 18, 2015		
Issue Date	December 25, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie.Zh	Winnie Zheng David Huang			
Winnie Zhang David Huang Test Engineer 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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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
15071127-FCC-R4	NONE	Original	December 21, 2015
15071127-FCC-R4	V1	Delete calibration date	December 25, 2015

2. Customer information

Applicant Name	VeryKool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer	Mikimobile
Manufacturer Add	Block 5,Hongxin industrial Park, Dabuxiang Village, Guanguang Road, Guanlan
	Town, Bao' an District,Shenzhen

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: Tablet

Main Model: T7442

Serial Model: N/A

Date EUT received: November 23,2015

Test Date(s): November 24 to December 18, 2015

Equipment Category : DTS

GSM850: -1.5dBi

PCS1900: -1.0dBi

UMTS-FDD Band V: -1.5dBi
Antenna Gain:

UMTS-FDD Band II: -1.0dBi

Bluetooth/BLE/WIFI:1.0dBi

GPS:-2.0dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

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

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

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

GPS RX:1575.42 MHz



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-2.832dBm Max. Output Power:

> 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

Battery:

Model GY-3553125PL

Standard Voltage:DC3.7V

Rated Capacity:2500mAh,9.25Wh

Input Power: Adapter:

Model:A31-501000

Input: AC100-240V; 50/60Hz; 0.2A

Output: DC 5.0V,1.0A

Port: Power Port, Earphone Port, USB Port

Trade Name: verykool

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

FCC ID: WA6T7442



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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 Comp	
§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 Com	
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted	Compliance
§15.207 (a),	Frequency Bands AC Power Line Conducted Emissions Compli	
§15.205, §15.209,	Radiated Spurious Emissions & Unwanted Emissions	
§15.247(d)	into Restricted Frequency Bands Complian	

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 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 2 antennas:

A permanently attached PIFA antenna for Bluetooth/ WIFI/BLE/GPS, the gain is 1.0dBi for Bluetooth, the gain is1.0 dBi for WIFI, he gain is1.0 dBi for BLE, the gain is -2.0dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/ UMTS, the gain is -1.5dBi for GSM850, -1.0dBi for PCS1900,-1.5dBi for UMTS-FDD Band V, -1.0dBi for UMTS-FDD Band II.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	December 16, 2015
Tested By :	Winnie Zhang

Spec	Item Requirement		Applicable		
§ 15.247(a)(2)	a)	V			
RSS Gen(4.6.1)	b)	b) 99% BW: For FCC reference only; required by IC.			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	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

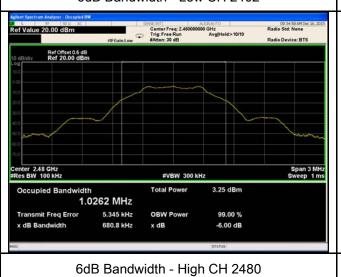
СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	684.3	1.0237
Mid	2440	681.5	1.0288
High	2480	680.8	1.0262

Test Plots





6dB Bandwidth - Low CH 2402



6dB Bandwidth - Mid CH 2440



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6.3 Maximum Output Power

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	December 16, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	tem Requirement A			
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt			
	b)	b) FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b) (3),RSS210	c)	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			
()	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}

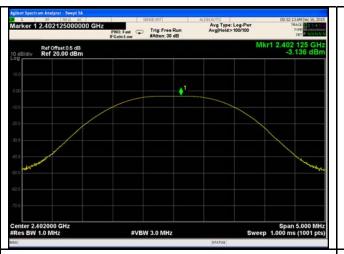
□_{N/A} Yes (See below) Test Plot

Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.136	30	Pass
Output	Mid	2440	-2.832	30	Pass
power	High	2480	-3.086	30	Pass

Test Plots





AV Output power - Low CH 2402



AV Output power - High CH 2480



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6.4 Power Spectral Density

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	December 16, 2015
Tested By :	Winnie Zhang

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 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

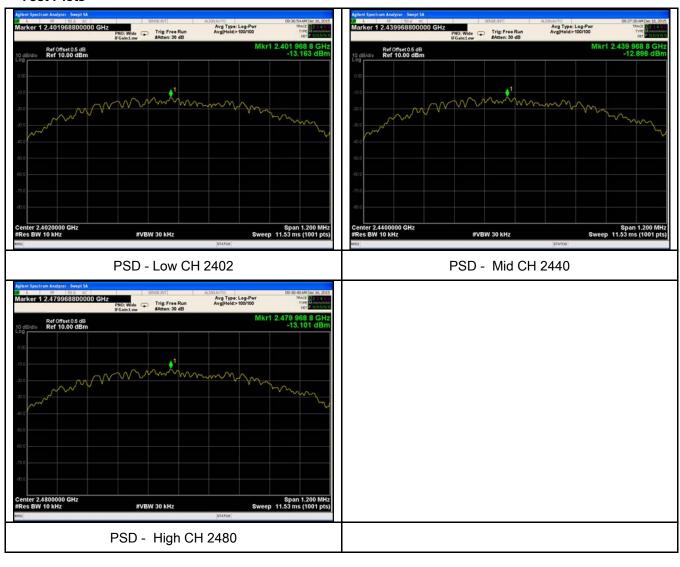
Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor(dB)	Result	Limit (dBm)	Result
	Low	2402	-13.163	-5.22	-18.383	8	Pass
PSD	Mid	2440	-12.898	-5.22	-18.118	8	Pass
	High	2480	-13.101	-5.22	-18.321	8	Pass

Note:

Factor=10log(3/10)dB=-5.22dB

Test Plots





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

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	December 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Item Requirement Applicable			
§15.247(d)	a)	Ĭ.			
Test Setup	Peak conducted power limits. 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.				



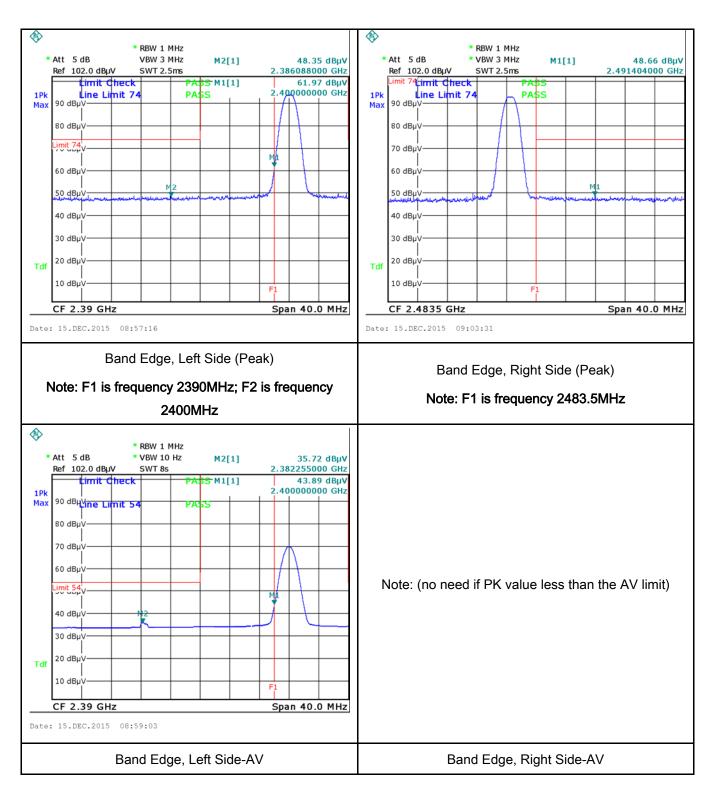
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	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a				
	convenient frequency span including 100kHz bandwidth from band edge, check				
	the emission of EUT, if pass then set Spectrum Analyzer as below:				
	a. The resolution bandwidth 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	Yes N/A				
Test Plot	Yes (See below) N/A				



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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	51%
Atmospheric Pressure	1009mbar
Test date :	December 15, 2015
Tested By :	Winnie Zhang

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 conducte frequency or frequencie not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges (MHz)				
		0.15 ~ 0.5 0.5 ~ 5	66 – 56 56	56 – 46 46		
		5 ~ 30 60 50				
Test Setup	Vertical Ground Reference Plane Bocm 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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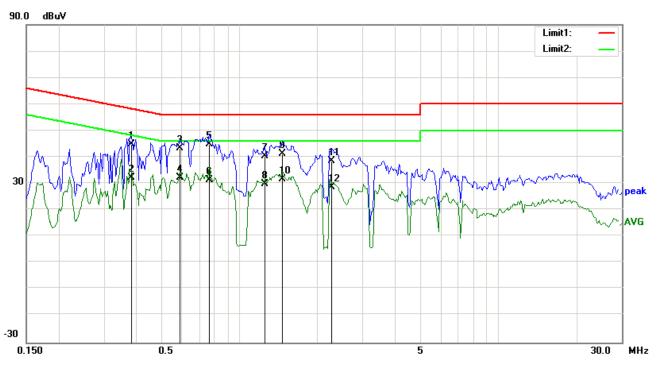
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range 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

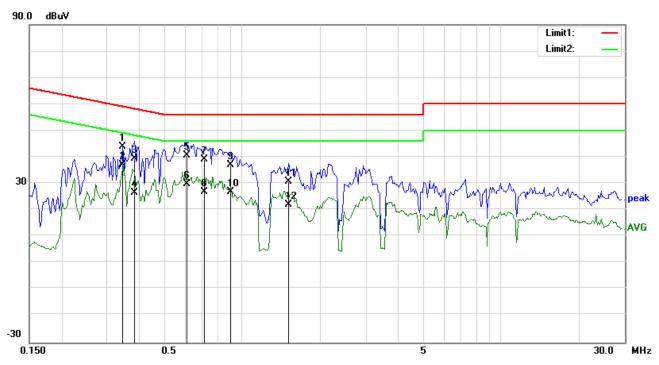
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.3840	34.96	QP	10.03	44.99	58.19	-13.20
2	L1	0.3840	22.34	AVG	10.03	32.37	48.19	-15.82
3	L1	0.5907	33.24	QP	10.03	43.27	56.00	-12.73
4	L1	0.5907	22.11	AVG	10.03	32.14	46.00	-13.86
5	L1	0.7662	34.80	QP	10.03	44.83	56.00	-11.17
6	L1	0.7662	21.36	AVG	10.03	31.39	46.00	-14.61
7	L1	1.2537	30.35	QP	10.03	40.38	56.00	-15.62
8	L1	1.2537	19.78	AVG	10.03	29.81	46.00	-16.19
9	L1	1.4682	31.28	QP	10.04	41.32	56.00	-14.68
10	L1	1.4682	21.54	AVG	10.04	31.58	46.00	-14.42
11	L1	2.2755	28.47	QP	10.05	38.52	56.00	-17.48
12	L1	2.2755	18.62	AVG	10.05	28.67	46.00	-17.33



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Test Mode: Transmitting Mode



Test Data

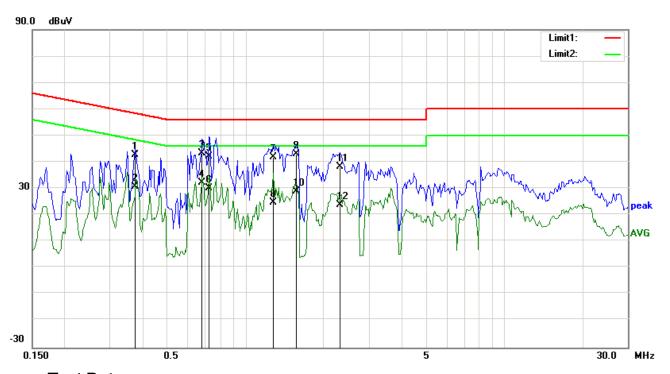
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.3450	33.88	QP	10.02	43.90	59.08	-15.18
2	Ν	0.3450	27.02	AVG	10.02	37.04	49.08	-12.04
3	Ν	0.3840	29.44	QP	10.02	39.46	58.19	-18.73
4	N	0.3840	16.65	AVG	10.02	26.67	48.19	-21.52
5	Ν	0.6102	30.76	QP	10.02	40.78	56.00	-15.22
6	Ν	0.6102	19.93	AVG	10.02	29.95	46.00	-16.05
7	Ν	0.7155	29.24	QP	10.02	39.26	56.00	-16.74
8	Ν	0.7155	16.98	AVG	10.02	27.00	46.00	-19.00
9	Ν	0.9027	27.06	QP	10.03	37.09	56.00	-18.91
10	N	0.9027	16.70	AVG	10.03	26.73	46.00	-19.27
11	N	1.5033	20.85	QP	10.04	30.89	56.00	-25.11
12	N	1.5033	12.05	AVG	10.04	22.09	46.00	-23.91



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Test Mode:	Transmitting Mode



Test Data

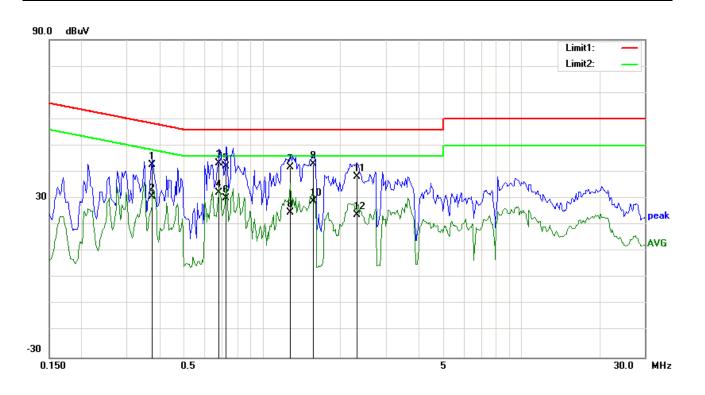
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)		
1	L1	0.3762	32.62	QP	10.03	42.65	58.36	-15.71		
2	L1	0.3762	20.85	AVG	10.03	30.88	48.36	-17.48		
3	L1	0.6804	33.38	QP	10.03	43.41	56.00	-12.59		
4	L1	0.6804	22.24	AVG	10.03	32.27	46.00	-13.73		
5	L1	0.7272	32.16	QP	10.03	42.19	56.00	-13.81		
6	L1	0.7272	20.07	AVG	10.03	30.10	46.00	-15.90		
7	L1	1.2810	31.97	QP	10.03	42.00	56.00	-14.00		
8	L1	1.2810	14.72	AVG	10.03	24.75	46.00	-21.25		
9	L1	1.5735	32.90	QP	10.04	42.94	56.00	-13.06		
10	L1	1.5735	18.90	AVG	10.04	28.94	46.00	-17.06		
11	L1	2.3106	28.06	QP	10.05	38.11	56.00	-17.89		
12	L1	2.3106	13.86	AVG	10.05	23.91	46.00	-22.09		



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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	0.3840	40.17	QP	10.02	50.19	58.19	-8.00
2	N	0.3840	29.09	AVG	10.02	39.11	48.19	-9.08
3	N	0.6336	39.31	QP	10.02	49.33	56.00	-6.67
4	N	0.6336	28.58	AVG	10.02	38.60	46.00	-7.40
5	N	0.6765	40.11	QP	10.02	50.13	56.00	-5.87
6	N	0.6765	29.01	AVG	10.02	39.03	46.00	-6.97
7	N	0.8208	29.15	QP	10.03	39.18	56.00	-16.82
8	N	0.8208	16.08	AVG	10.03	26.11	46.00	-19.89
9	N	1.3161	34.29	QP	10.03	44.32	56.00	-11.68
10	N	1.3161	20.66	AVG	10.03	30.69	46.00	-15.31
11	N	1.6125	35.47	QP	10.04	45.51	56.00	-10.49
12	N	1.6125	22.48	AVG	10.04	32.52	46.00	-13.48



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6.7 Radiated Emissions

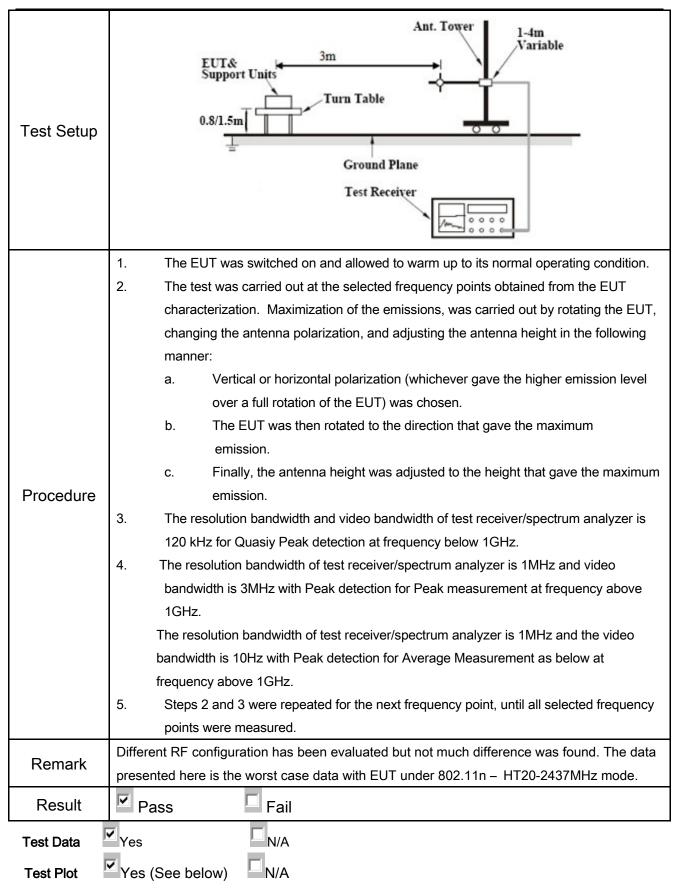
Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1003mbar
Test date :	December 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement		Applicable
47CFR§15.	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges		~
247(d), RSS210 (A8.5)	b)		and spectrum or digitally operating, the radio frequency entional radiator shall be at least 00 kHz bandwidth within the el of the desired power, method on output power to be ral limits specified in § 15.209(a) 0 dB down	V
	c)	or restricted band, emission must emission limits specified in 15.209	• •	>



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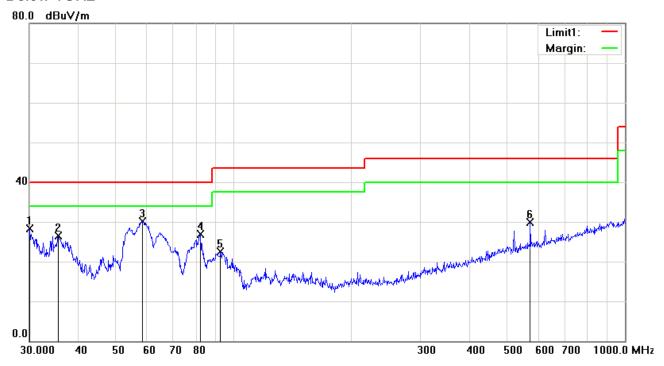




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Test Mode: Transmitting Mode

Below 1GHz



Test Data

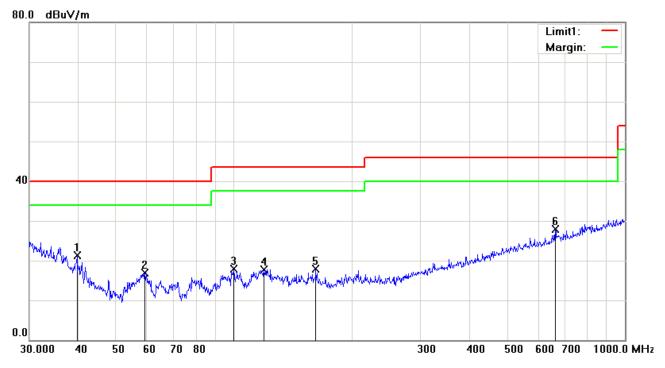
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	V	30.1054	28.61	peak	-0.34	28.27	40.00	-11.73	100	254
2	V	35.4993	30.87	peak	-4.30	26.57	40.00	-13.43	100	265
3	V	58.4074	44.33	peak	-14.17	30.16	40.00	-9.84	100	0
4	V	82.0706	40.55	peak	-13.66	26.89	40.00	-13.11	100	107
5	V	92.4624	35.28	peak	-12.76	22.52	43.50	-20.98	100	179
6	V	572.6144	30.44	peak	-0.44	30.00	46.00	-16.00	100	1



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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	Н	39.7147	28.59	peak	-7.38	21.21	40.00	-18.79	100	244
2	Н	59.2325	31.17	peak	-14.28	16.89	40.00	-23.11	100	229
3	Н	99.8777	28.64	peak	-10.83	17.81	43.50	-25.69	100	188
4	Н	119.4361	25.15	peak	-7.40	17.75	43.50	-25.75	100	341
5	Н	162.0414	26.37	peak	-8.45	17.92	43.50	-25.58	100	177
6	Н	663.4729	26.84	peak	0.97	27.81	46.00	-18.19	100	158



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Above 1GHz

Test Mode:	Transmitting Mode
------------	-------------------

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	38.59	AV	V	33.83	6.86	31.72	47.56	54	-6.44
4804	38.32	AV	Н	33.83	6.86	31.72	47.29	54	-6.71
4804	46.75	PK	V	33.83	6.86	31.72	55.72	74	-18.28
4804	46.48	PK	Н	33.83	6.86	31.72	55.45	74	-18.55

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	38.62	AV	V	33.86	6.82	31.82	47.48	54	-6.52
4880	38.27	AV	Н	33.86	6.82	31.82	47.13	54	-6.87
4880	46.59	PK	V	33.86	6.82	31.82	55.45	74	-18.55
4880	46.44	PK	Н	33.86	6.82	31.82	55.3	74	-18.7

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	38.53	AV	V	33.9	6.76	31.92	47.27	54	-6.73
4960	38.37	AV	Н	33.9	6.76	31.92	47.11	54	-6.89
4960	46.51	PK	V	33.9	6.76	31.92	55.25	74	-18.75
4960	46.49	PK	Н	33.9	6.76	31.92	55.23	74	-18.77

Note:

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



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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	09/17/2015	09/16/2016	<u><</u>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<u> </u>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	~
LISN	ISN T800	34373	09/25/2015	09/24/2016	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	~
Power Splitter	1#	1#	09/01/2015	08/31/2016	~
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<u><</u>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<u><</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<u><</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	V
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/23/2016	V



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Annex B. EUT And Test Setup Photographs

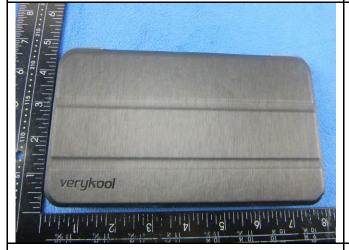
Annex B.i. Photograph: EUT External Photo



VEX. (A POSITION AND A POSITION AND

Whole Package - Top View

Adapter - Front View







Cover-Bottom View



Cover-Openning



EUT - Front View



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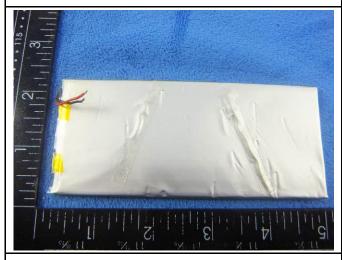
Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

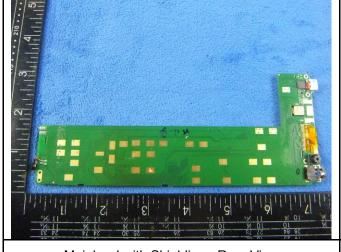
Battery - Front View



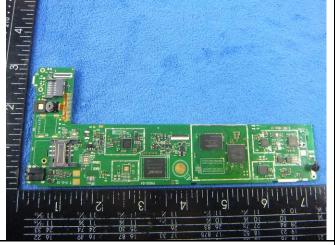




Mainbard with Shielding - Front View



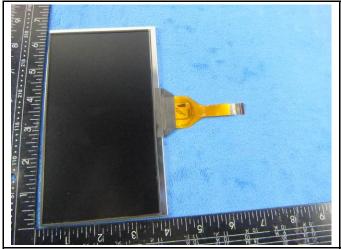
Mainbard with Shielding - Rear View



Mainboard without shielding - Front View



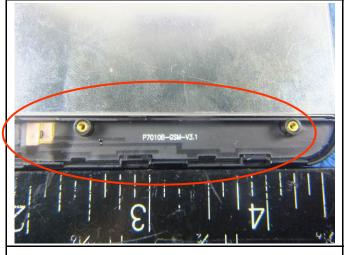
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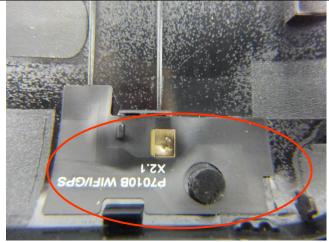


LCD - Front View

LCD - Rear View







WIFI/BT/BLE/GPS - Antenna View



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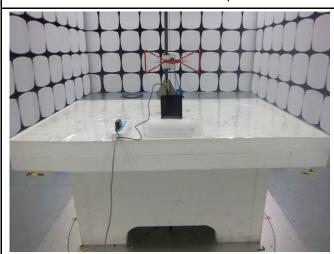
Annex B.iii. Photograph: Test Setup Photo



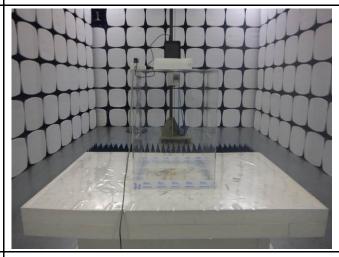
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

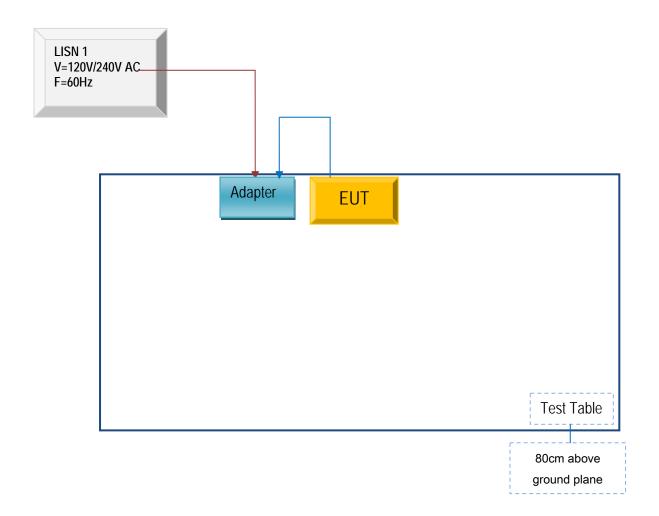


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

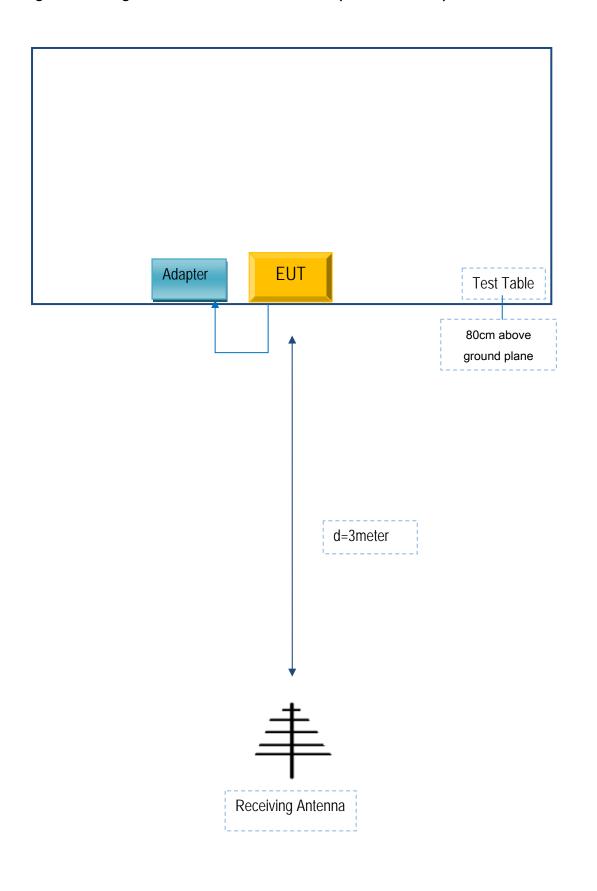
Block Configuration Diagram for AC Line Conducted Emissions





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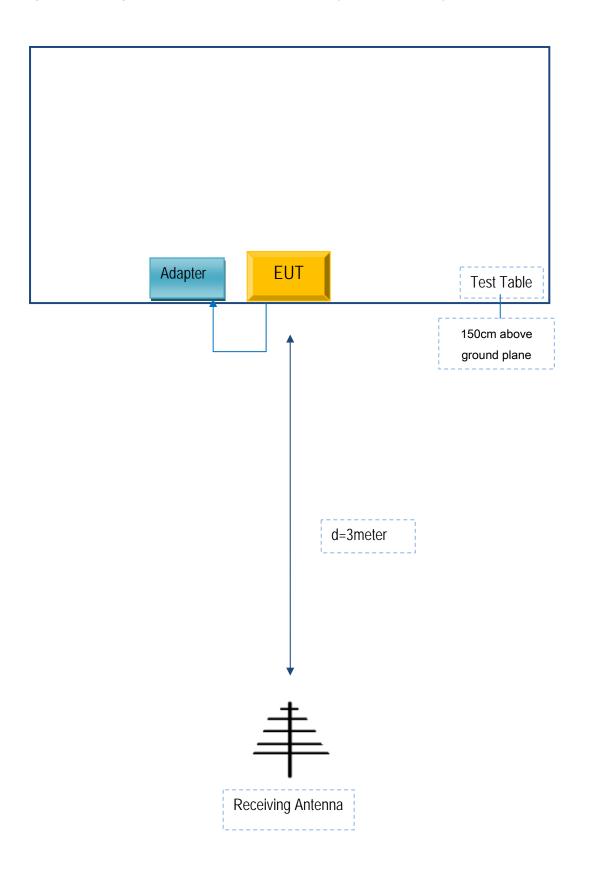
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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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.

Manufacturer	Equipment Description	Model	Serial No
Dong Guan AOHAI Power Technology co ,LTD	Adapter	A31- 501000	XB24577711

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	XB24577712



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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