

EMC TEST REPORT



Report No.: 18070621-FCC-E

Supersede Report No: N/A

Applicant	TECNO MOBILE LIMITED
Product Name	Mobile Phone
Model No.	F4
Serial No.	N/A
Test Standard	FCC Part 15 Subpart B Class B, ANSI C63.4: 2014
Test Date	June 17 to July 01, 2018
Issue Date	July 02, 2018
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Equipment complied with the specification

Equipment did not comply with the specification

<i>Evans He</i>	<i>David Huang</i>	
Evans He 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

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.

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
18070621-FCC-E	NONE	Original	July 02, 2018

2. Customer information

Applicant Name	TECNO MOBILE LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1/4/TH FLOOR,7TH FLOOR, 3RD BUILDING, PACIFIC INDUSTRIAL PARK, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN , GUANGDONG ,CHINA

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: F4

Serial Model: N/A

GSM850: -2.3dBi
PCS1900: -0.9dBi
UMTS-FDD Band V: -2.3dBi
UMTS-FDD Band II: -0.8dBi
UMTS-FDD Band IV: -0.8dBi
LTE Band II: -0.8dBi
LTE Band IV: -0.8dBi
LTE Band V: -2.3dBi
LTE Band VII: -0.6dBi
WIFI: 2dBi
Bluetooth/BLE: 2dBi
GPS: 2dBi

Antenna Type: PIFA antenna

Adapter :
Model: A8-501000
Input: AC100-240V~50/60Hz,200mA
Output: DC 5.0V, 1.0A

Input Power:
Battery :
Model: BL-30VT
Rating: 3.85V, 3000mAh/3050mAh (min/typ)
11.55Wh/11.74Wh (min/typ)
Limited charge voltage: 4.4V

Equipment Category : JBP

Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi/4$ DQPSK, 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 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 LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz LTE Band V TX: 824.7~ 848.3 MHz; RX : 869.7 ~ 893.3MHz LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 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
Number of Channels:	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH
Port:	Please refer to the user's manual
Trade Name :	TECNO

FCC ID: 2ADYY-F4

GPRS Multi-slot class 8/10/11/12

Date EUT received: June 16, 2018

Test Date(s): June 17 to July 01, 2018

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

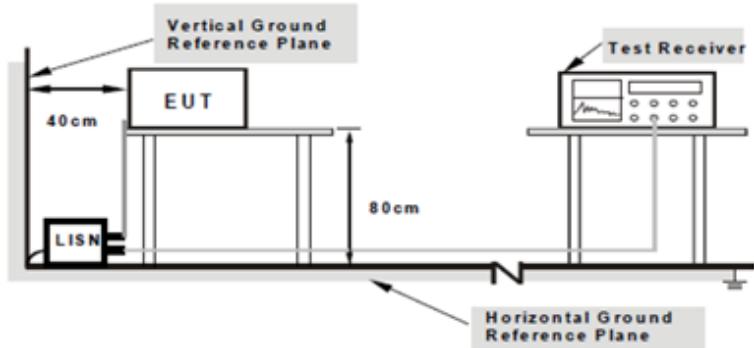
Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1014mbar
Test date :	June 20, 2018
Tested By :	Evans He

Requirement(s):

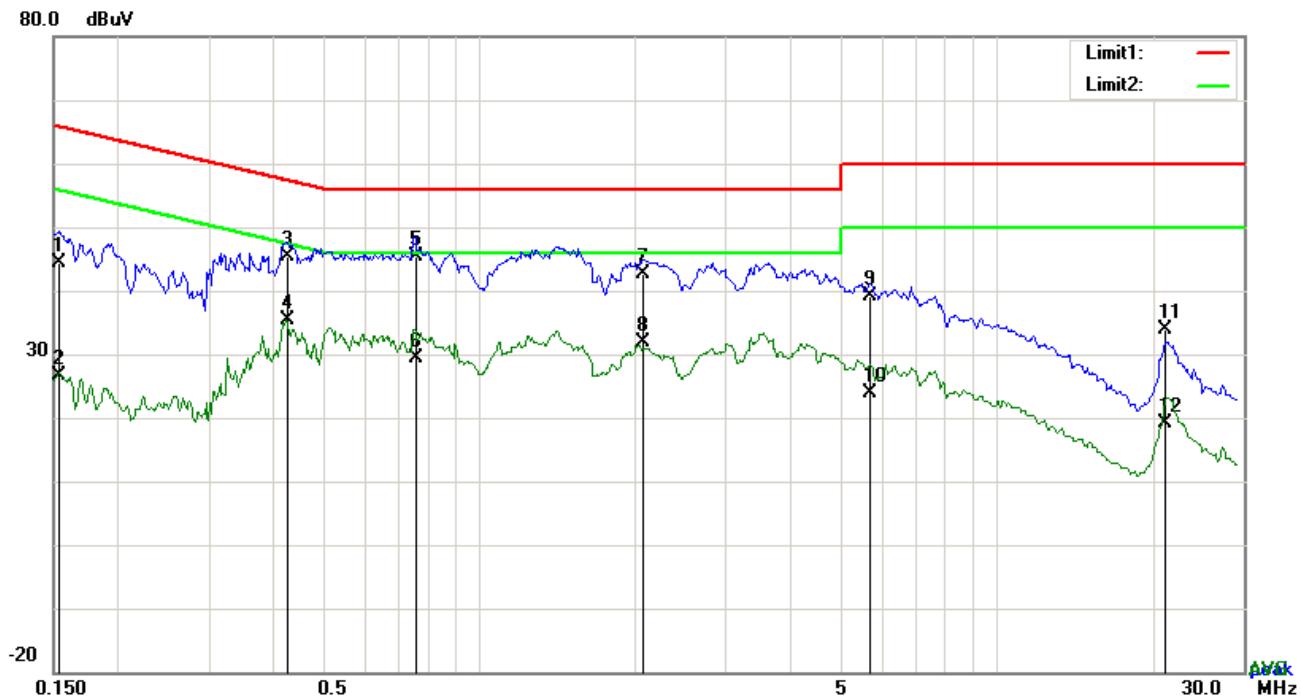
Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 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.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dB μ V)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dB μ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>The diagram illustrates the test setup for conducted emissions. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A test receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the test receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p>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.</p>																
Procedure	<ol style="list-style-type: none"> 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 50Ω /50mH EUT LISN, connected to filtered mains. 																

	<ol style="list-style-type: none"> 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 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	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode : USB Mode

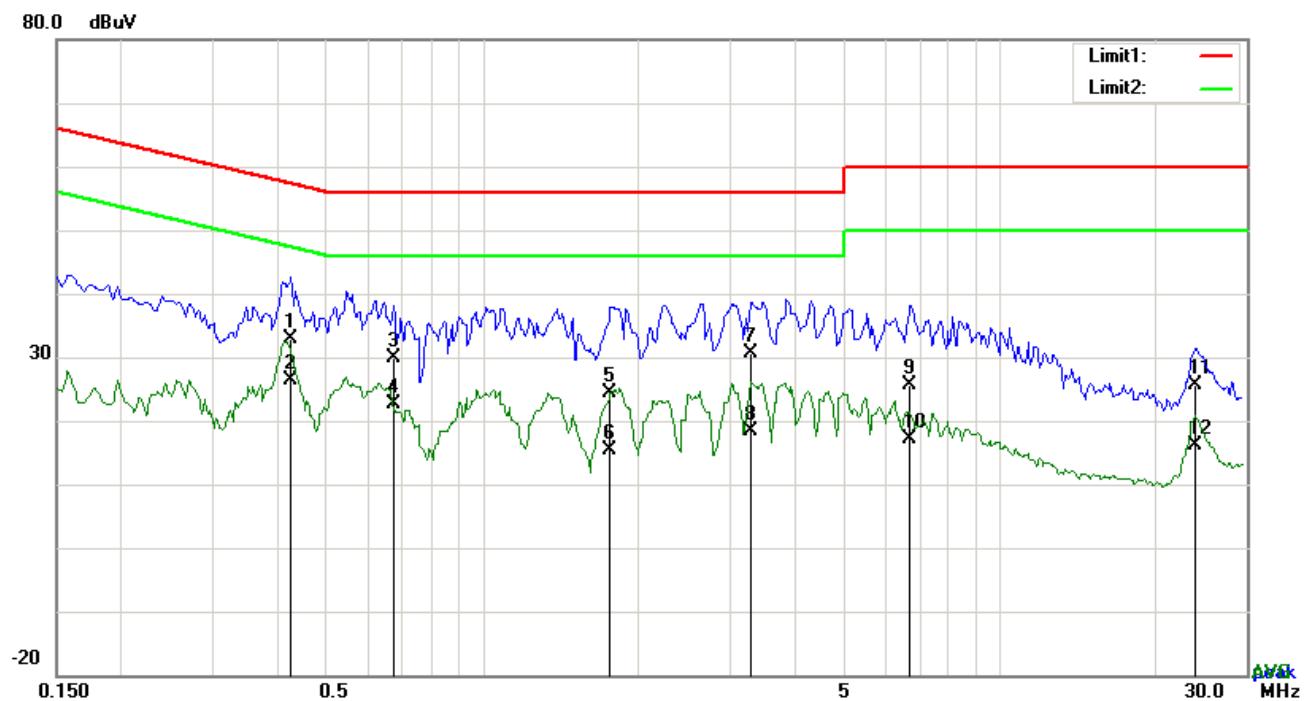


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1539	34.34	QP	10.03	44.37	65.79	-21.42
2	L1	0.1539	16.50	AVG	10.03	26.53	55.79	-29.26
3	L1	0.4260	35.34	QP	10.03	45.37	57.33	-11.96
4	L1	0.4260	25.28	AVG	10.03	35.31	47.33	-12.02
5	L1	0.7545	35.37	QP	10.03	45.40	56.00	-10.60
6	L1	0.7545	19.38	AVG	10.03	29.41	46.00	-16.59
7	L1	2.0688	32.67	QP	10.04	42.71	56.00	-13.29
8	L1	2.0688	21.88	AVG	10.04	31.92	46.00	-14.08
9	L1	5.6871	29.02	QP	10.09	39.11	60.00	-20.89
10	L1	5.6871	13.82	AVG	10.09	23.91	50.00	-26.09
11	L1	21.2208	23.49	QP	10.32	33.81	60.00	-26.19
12	L1	21.2208	8.85	AVG	10.32	19.17	50.00	-30.83

Test Mode: USB Mode

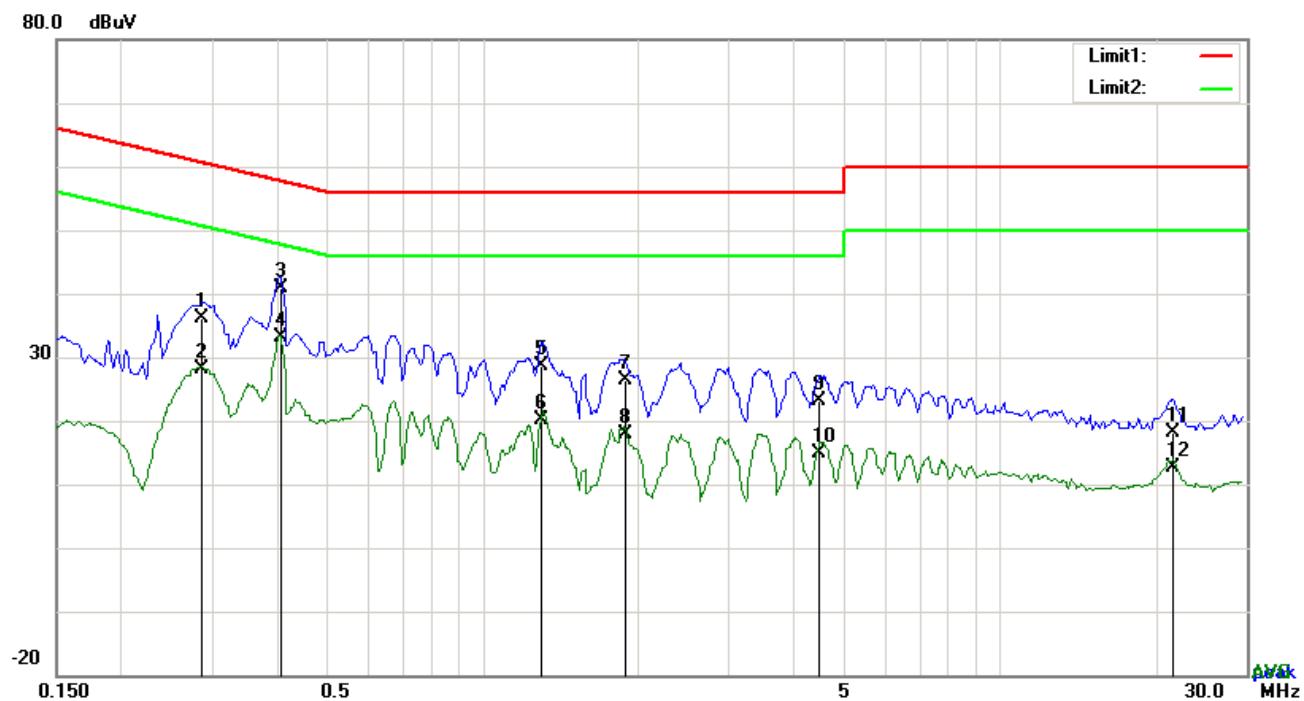


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.4269	22.86	QP	10.03	32.89	57.31	-24.42
2	N	0.4269	16.34	AVG	10.03	26.37	47.31	-20.94
3	N	0.6726	19.95	QP	10.03	29.98	56.00	-26.02
4	N	0.6726	12.56	AVG	10.03	22.59	46.00	-23.41
5	N	1.7685	14.31	QP	10.04	24.35	56.00	-31.65
6	N	1.7685	5.26	AVG	10.04	15.30	46.00	-30.70
7	N	3.2964	20.54	QP	10.06	30.60	56.00	-25.40
8	N	3.2964	8.33	AVG	10.06	18.39	46.00	-27.61
9	N	6.7245	15.48	QP	10.10	25.58	60.00	-34.42
10	N	6.7245	6.98	AVG	10.10	17.08	50.00	-32.92
11	N	23.8494	15.26	QP	10.37	25.63	60.00	-34.37
12	N	23.8494	5.69	AVG	10.37	16.06	50.00	-33.94

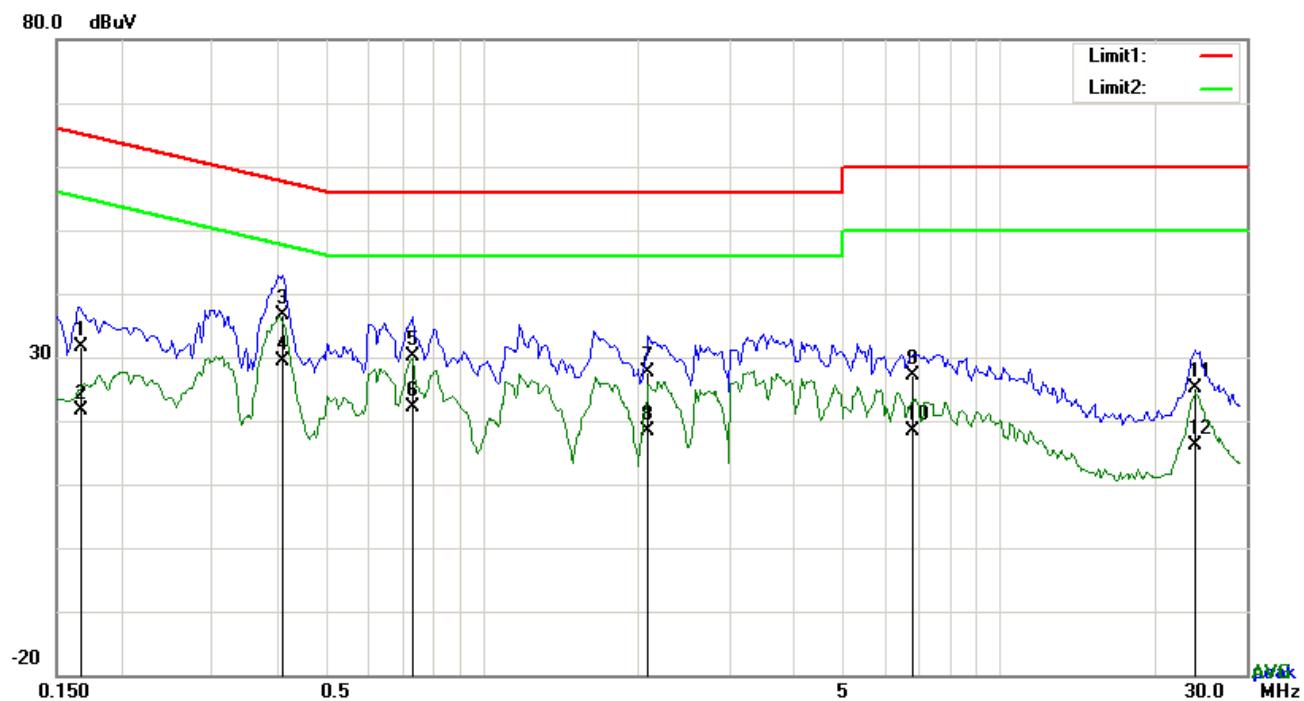
Test Mode : USB Mode



Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2865	26.00	QP	10.02	36.02	60.63	-24.61
2	L1	0.2865	18.02	AVG	10.02	28.04	50.63	-22.59
3	L1	0.4074	30.94	QP	10.02	40.96	57.70	-16.74
4	L1	0.4074	23.12	AVG	10.02	33.14	47.70	-14.56
5	L1	1.2966	18.61	QP	10.03	28.64	56.00	-27.36
6	L1	1.2966	10.03	AVG	10.03	20.06	46.00	-25.94
7	L1	1.8879	16.38	QP	10.04	26.42	56.00	-29.58
8	L1	1.8879	7.96	AVG	10.04	18.00	46.00	-28.00
9	L1	4.4820	13.09	QP	10.06	23.15	56.00	-32.85
10	L1	4.4820	4.82	AVG	10.06	14.88	46.00	-31.12
11	L1	21.6615	7.94	QP	10.29	18.23	60.00	-41.77
12	L1	21.6615	2.26	AVG	10.29	12.55	50.00	-37.45

Test Mode : USB Mode



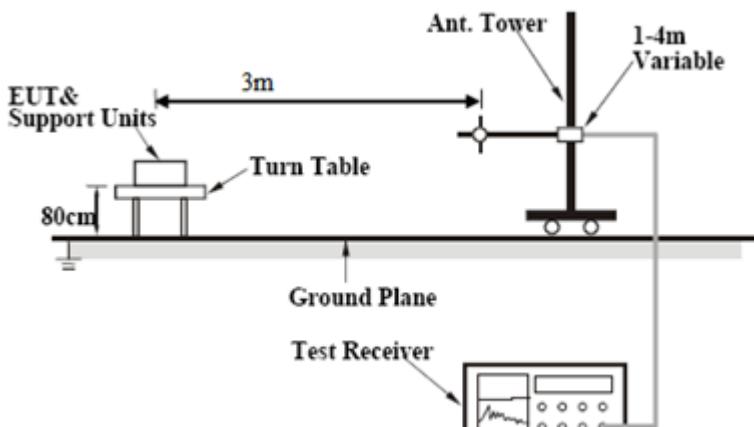
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1677	21.54	QP	10.02	31.56	65.07	-33.51
2	N	0.1677	11.70	AVG	10.02	21.72	55.07	-33.35
3	N	0.4113	26.71	QP	10.02	36.73	57.62	-20.89
4	N	0.4113	19.43	AVG	10.02	29.45	47.62	-18.17
5	N	0.7350	20.01	QP	10.02	30.03	56.00	-25.97
6	N	0.7350	12.03	AVG	10.02	22.05	46.00	-23.95
7	N	2.0961	17.53	QP	10.04	27.57	56.00	-28.43
8	N	2.0961	8.37	AVG	10.04	18.41	46.00	-27.59
9	N	6.7830	17.16	QP	10.09	27.25	60.00	-32.75
10	N	6.7830	8.26	AVG	10.09	18.35	50.00	-31.65
11	N	23.8728	14.92	QP	10.32	25.24	60.00	-34.76
12	N	23.8728	5.70	AVG	10.32	16.02	50.00	-33.98

6.2 Radiated Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1014mbar
Test date :	June 20, 2018
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15. 109(d)	a)	<p>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</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (μV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 - 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (μ V/m)	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength (μ V/m)												
30 – 88	100												
88 – 216	150												
216 - 960	200												
Above 960	500												
Test Setup		 <p>The diagram illustrates the test setup. A 'Turn Table' is positioned on a 'Ground Plane'. An 'EUT & Support Units' is mounted on the turn table at a height of 80cm. A '3m' horizontal distance separates the EUT from an 'Ant. Tower'. The 'Ant. Tower' is mounted on a vertical post and is connected to a 'Test Receiver' which is shown with a waveform display and control buttons. The antenna height is adjustable, indicated by a '1-4m Variable' label.</p>											
Procedure		<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> Vertical or horizontal polarization (whichever gave the higher emission level) 											

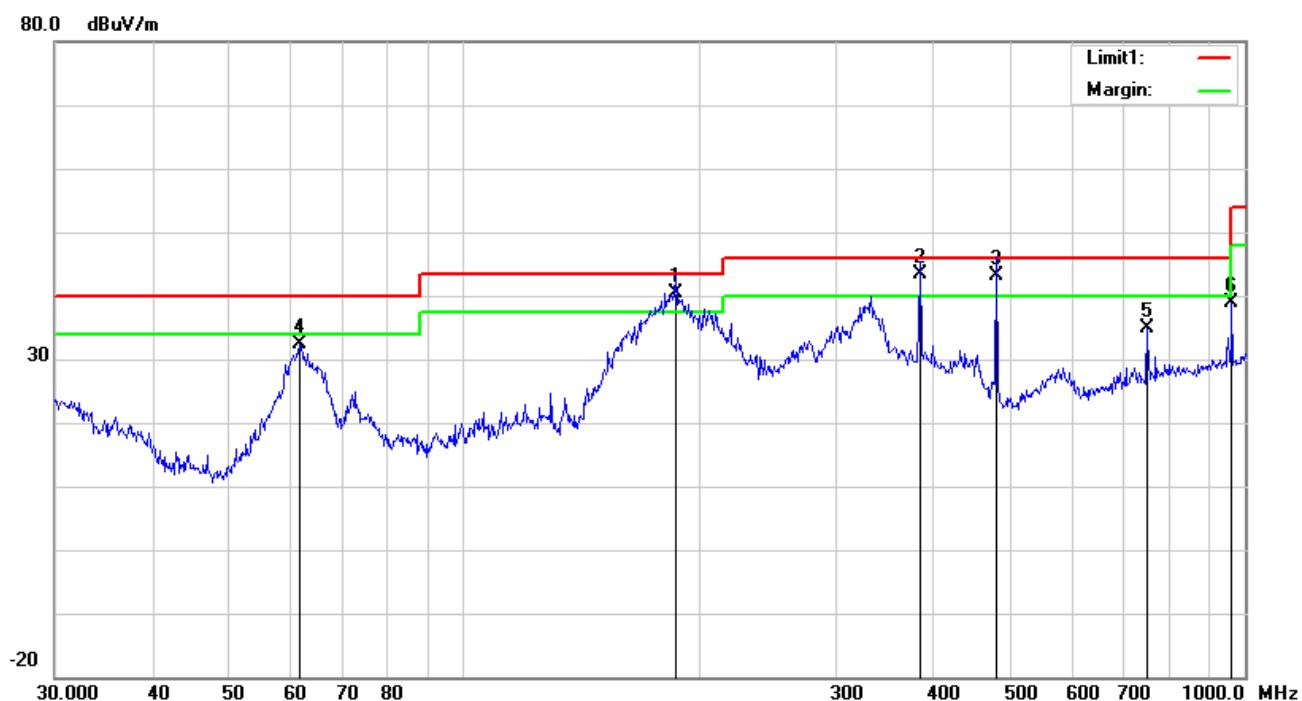
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>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.</p> <p>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.</p> <ul style="list-style-type: none"> ■ 1 kHz (Duty cycle < 98%) <input type="checkbox"/> 10 Hz (Duty cycle > 98%) <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode : USB Mode

Below 1GHz

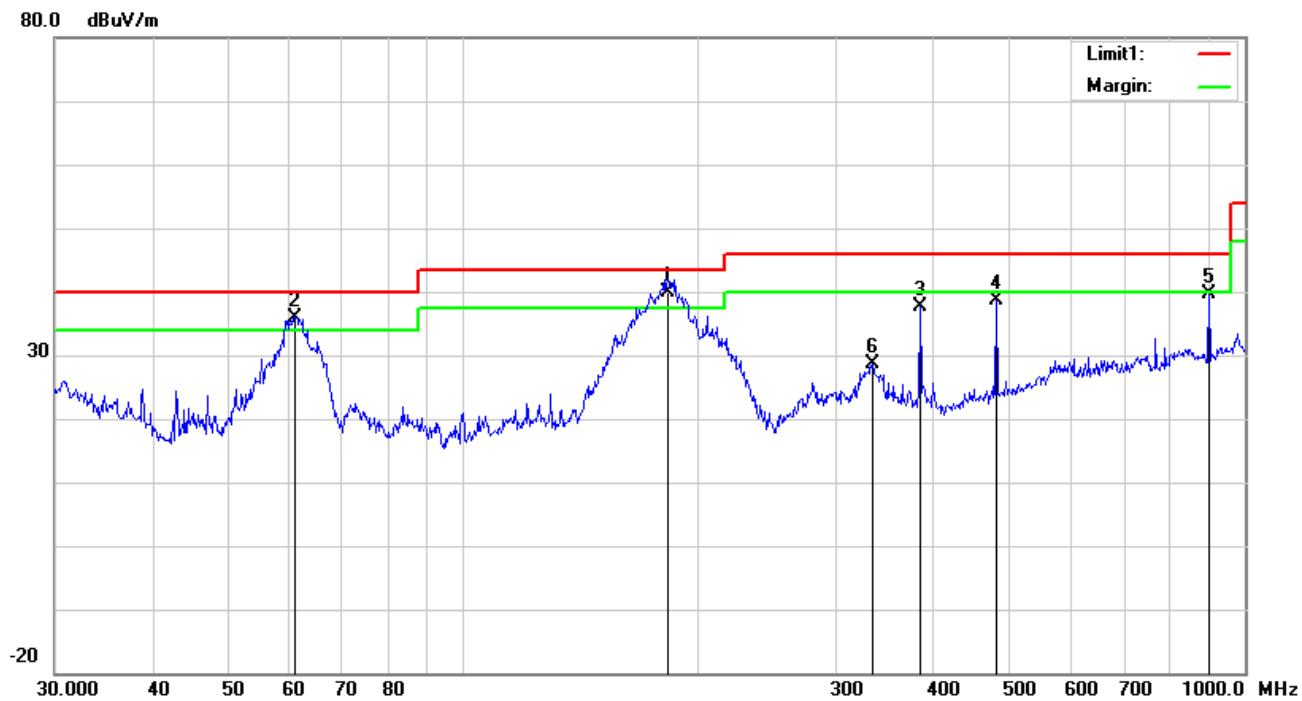


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree
1	H	187.0958	49.72	QP	11.39	22.30	1.49	40.30	43.50	-3.20	100	137
2	H	383.9318	48.10	QP	15.36	22.05	2.02	43.43	46.00	-2.57	100	125
3	H	480.5276	45.26	QP	17.31	21.85	2.31	43.03	46.00	-2.97	100	138
4	H	61.7781	46.50	peak	7.39	22.40	0.80	32.29	40.00	-7.71	100	335
5	H	750.1083	32.34	peak	20.80	21.25	2.87	34.76	46.00	-11.24	100	116
6	H	962.1623	33.51	peak	22.81	20.76	3.24	38.80	54.00	-15.20	200	220

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	182.5592	49.58	QP	11.14	22.27	1.41	39.86	43.50	-3.64	100	358
2	V	60.9176	50.29	QP	7.35	22.41	0.77	36.00	40.00	-4.00	200	181
3	V	383.9318	42.25	peak	15.36	22.05	2.02	37.58	46.00	-8.42	100	112
4	V	480.5276	40.75	peak	17.31	21.85	2.31	38.52	46.00	-7.48	100	109
5	V	900.1474	34.86	peak	22.50	20.88	3.07	39.55	46.00	-6.45	100	60
6	V	333.6867	34.44	peak	14.31	22.20	1.96	28.51	46.00	-17.49	100	249

Above 1GHz

Frequency (MHz)	Read_level (dB μ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector (PK/AV)
1659.43	67.22	110	100	V	-17.65	49.65	74	-24.35	PK
1094.58	69.97	191	100	V	-20.32	44.55	74	-29.45	PK
1557.08	65.54	165	100	V	-17.61	48.44	74	-25.56	PK
1013.72	64.49	62	100	H	-20.36	43.75	74	-30.25	PK
1870.05	63.13	249	100	H	-16	47.46	74	-26.54	PK
3600.29	61.44	34	100	H	-11.84	45.7	74	-28.3	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5*2480MHz=12,400MHz.*

Note2: 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.

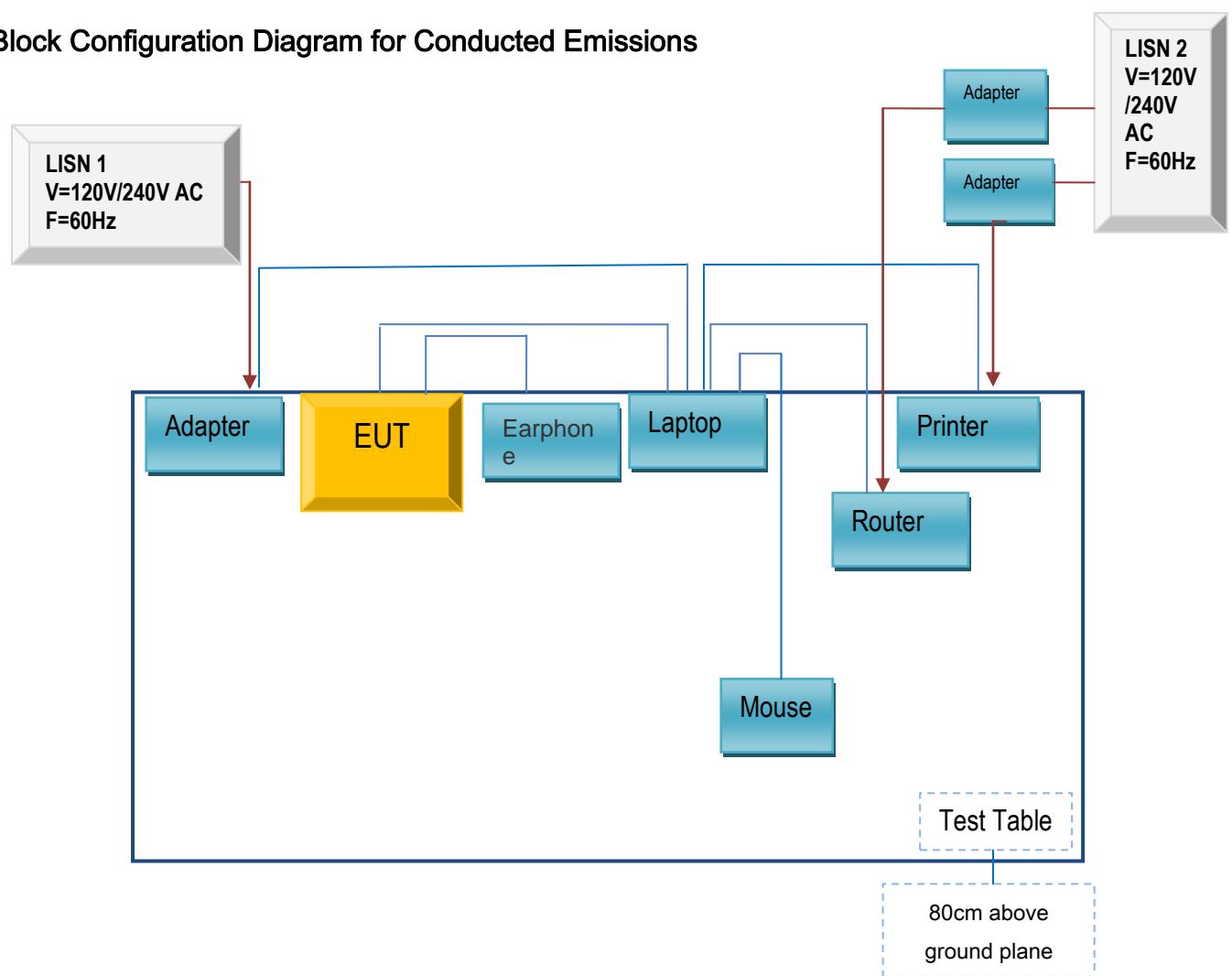
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/23/2017	09/22/2018	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	E SL6	100262	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/22/2018	03/21/2019	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	<input checked="" type="checkbox"/>

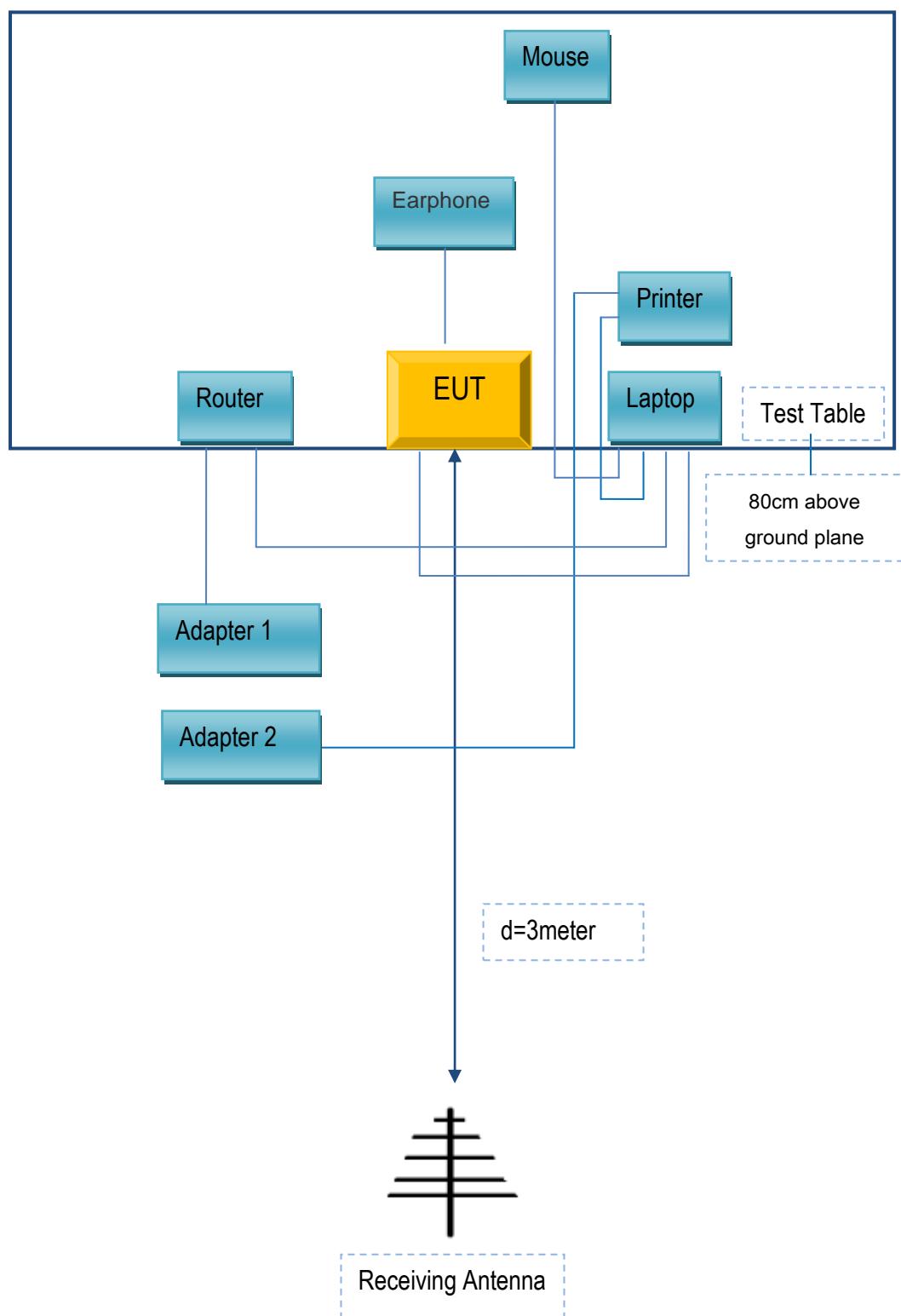
Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. 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
SAMSUNG	headset	HS330	N/A

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

**Annex C. User Manual / Block Diagram / Schematics / Partlist/
DECLARATION OF SIMILARITY**

Please see the attachment