


# EMC TEST REPORT



Report No.: 18070525-FCC-E

Supersede Report No: N/A

Applicant	TECNO MOBILE LIMITED	
Product Name	Mobile phone	
Model No.	F3	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B, ANSI C63.4: 2014	
Test Date	May 16 to 25, 2018	
Issue Date	May 26, 2018	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
<i>Evans He</i>	<i>David Huang</i>	
Evans He Test Engineer	David Huang Checked By	
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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
18070525-FCC-E	NONE	Original	May 26, 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	TECNO MOBILE LIMITED
Manufacturer Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

## 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:	F3
Serial Model:	N/A
Antenna Gain:	GSM850: -4.95dBi PCS1900: -3.87dBi UMTS-FDD Band V: -4.98dBi UMTS-FDD Band II: -4.41dBi WIFI: -3.5dBi Bluetooth/BLE: -3.5dBi GPS: -3.1dBi
Antenna Type:	PIFA antenna
Input Power:	Adapter : Model: A8-501000 Input: AC100-240V~50/60Hz,200mA Output: DC 5.0V, 1.0A Battery : Model: BL-24ET Spec: 3.8V, 2400mAh/2350mAh(typ/min), 9.12Wh/8.93Wh(typ/min) Limited charge voltage: 4.35V
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /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: 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: Please refer to the user' s manual

Trade Name : TECNO

FCC ID: 2ADYY-F3

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

Date EUT received: May 15, 2018

Test Date(s): May 16 to 25, 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



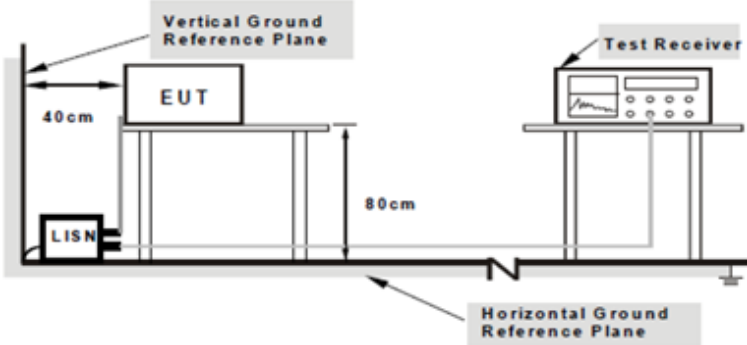
## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	May 17, 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 (dBµV)		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 (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p style="text-align: center;"> <b>Note: 1. Support units were connected to second LISN.</b>  <b>2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</b> </p>
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Procedure	<ol style="list-style-type: none"> <li>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.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>
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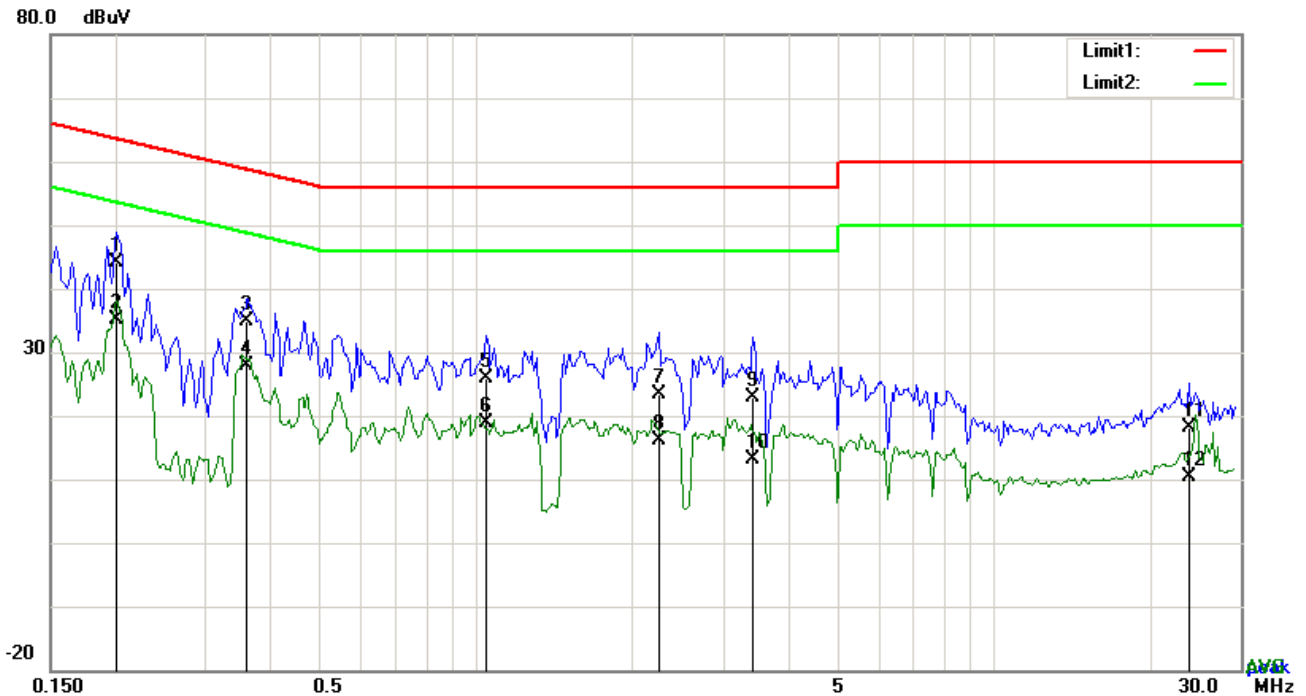
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	<ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>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.</li> <li>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.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
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**

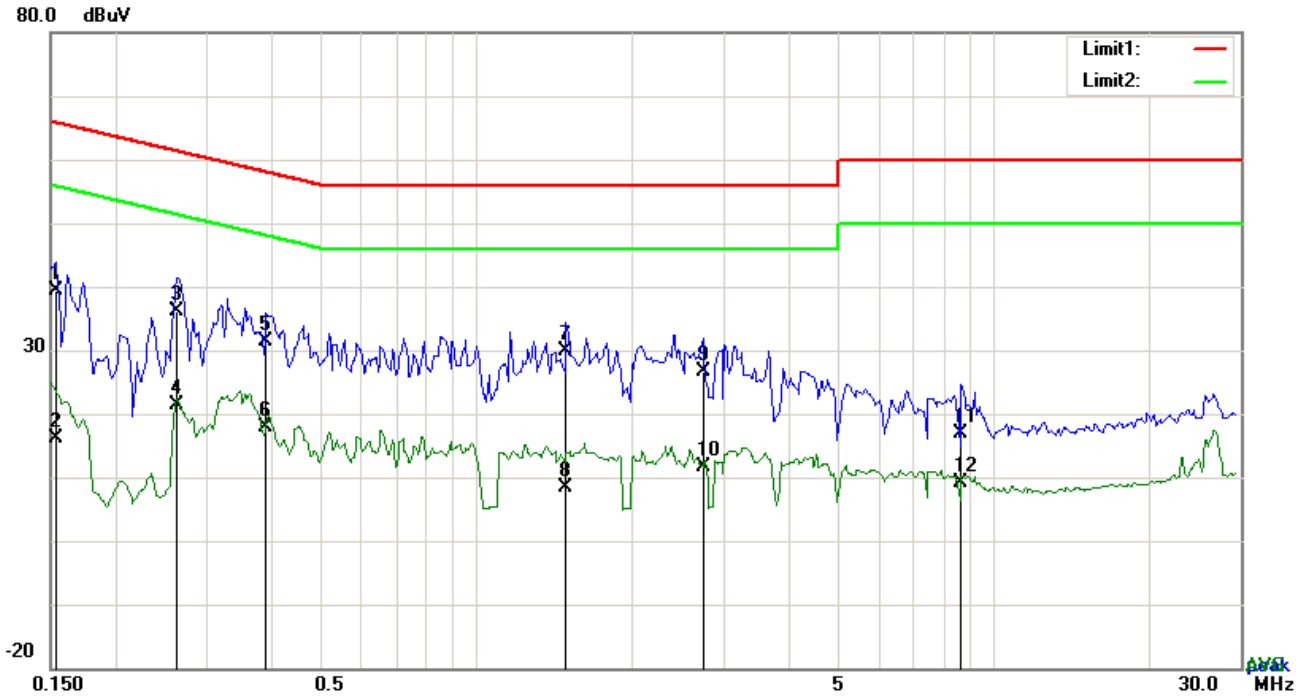


**Test Data**

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2007	34.15	QP	10.03	44.18	63.58	-19.40
2	L1	0.2007	24.99	AVG	10.03	35.02	53.58	-18.56
3	L1	0.3606	24.81	QP	10.03	34.84	58.71	-23.87
4	L1	0.3606	17.84	AVG	10.03	27.87	48.71	-20.84
5	L1	1.0470	15.85	QP	10.03	25.88	56.00	-30.12
6	L1	1.0470	8.77	AVG	10.03	18.80	46.00	-27.20
7	L1	2.2599	13.45	QP	10.05	23.50	56.00	-32.50
8	L1	2.2599	6.05	AVG	10.05	16.10	46.00	-29.90
9	L1	3.4251	12.89	QP	10.06	22.95	56.00	-33.05
10	L1	3.4251	3.16	AVG	10.06	13.22	46.00	-32.78
11	L1	23.8611	7.85	QP	10.37	18.22	60.00	-41.78
12	L1	23.8611	0.10	AVG	10.37	10.47	50.00	-39.53

<b>Test Mode:</b>	<b>USB Mode</b>
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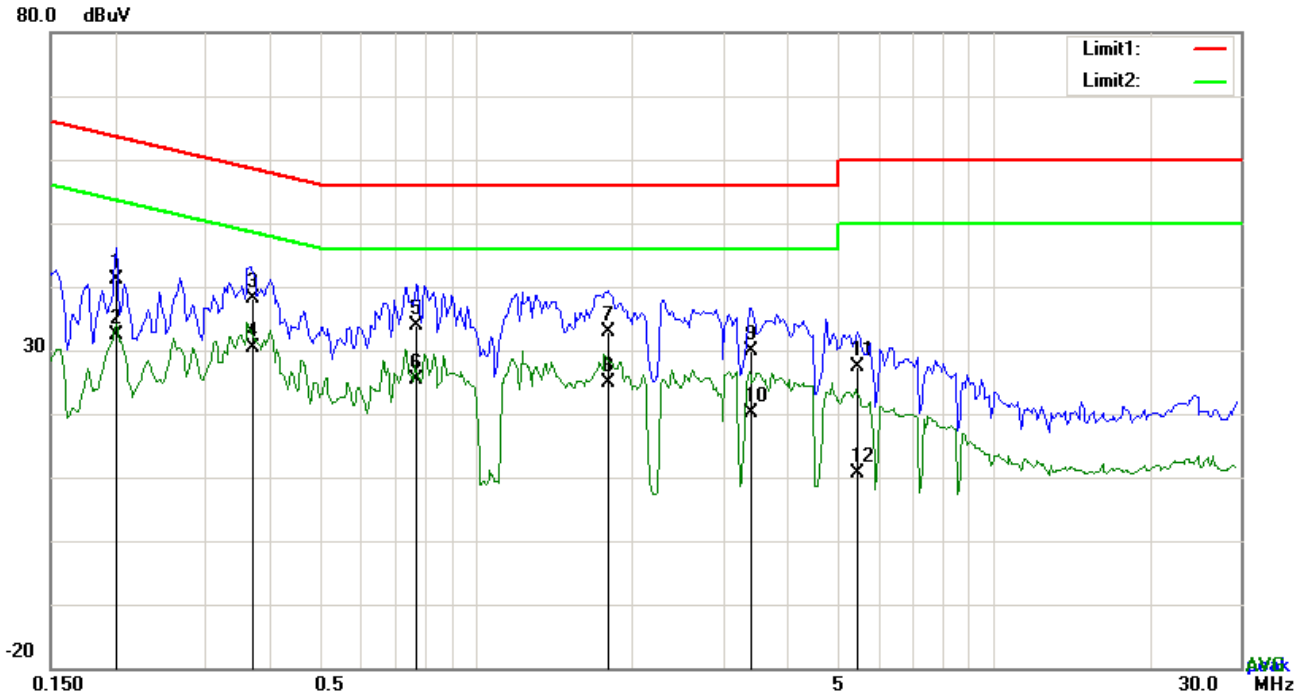


**Test Data**

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1539	29.36	QP	10.02	39.38	65.79	-26.41
2	N	0.1539	6.17	AVG	10.02	16.19	55.79	-39.60
3	N	0.2631	26.00	QP	10.02	36.02	61.33	-25.31
4	N	0.2631	11.38	AVG	10.02	21.40	51.33	-29.93
5	N	0.3918	21.33	QP	10.02	31.35	58.03	-26.68
6	N	0.3918	7.74	AVG	10.02	17.76	48.03	-30.27
7	N	1.4916	19.93	QP	10.03	29.96	56.00	-26.04
8	N	1.4916	-1.77	AVG	10.03	8.26	46.00	-37.74
9	N	2.7357	16.47	QP	10.05	26.52	56.00	-29.48
10	N	2.7357	1.57	AVG	10.05	11.62	46.00	-34.38
11	N	8.6667	6.76	QP	10.12	16.88	60.00	-43.12
12	N	8.6667	-1.05	AVG	10.12	9.07	50.00	-40.93

<b>Test Mode :</b>	<b>USB Mode</b>
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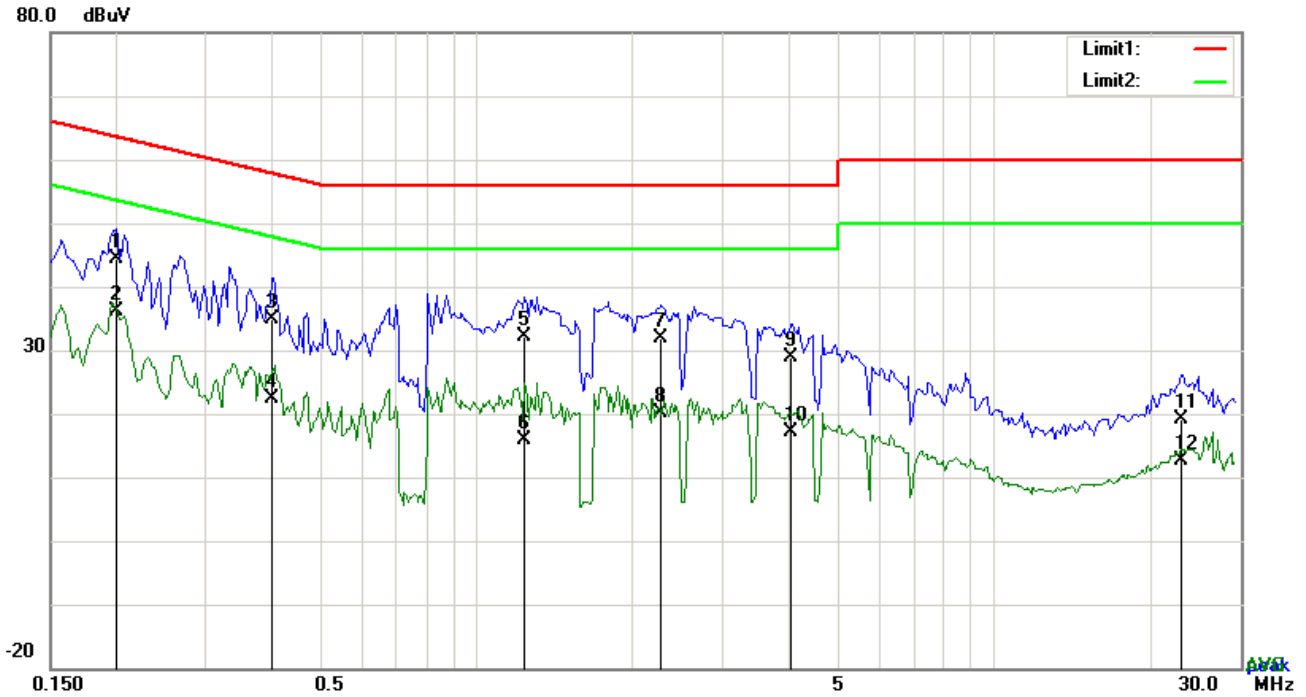


**Test Data**

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.2007	31.06	QP	10.03	41.09	63.58	-22.49
2	L1	0.2007	22.28	AVG	10.03	32.31	53.58	-21.27
3	L1	0.3692	28.00	QP	10.03	38.03	58.52	-20.49
4	L1	0.3692	20.47	AVG	10.03	30.50	48.52	-18.02
5	L1	0.7662	23.86	QP	10.03	33.89	56.00	-22.11
6	L1	0.7662	15.25	AVG	10.03	25.28	46.00	-20.72
7	L1	1.7958	22.88	QP	10.04	32.92	56.00	-23.08
8	L1	1.7958	14.84	AVG	10.04	24.88	46.00	-21.12
9	L1	3.4095	19.81	QP	10.06	29.87	56.00	-26.13
10	L1	3.4095	10.09	AVG	10.06	20.15	46.00	-25.85
11	L1	5.4609	17.30	QP	10.09	27.39	60.00	-32.61
12	L1	5.4609	0.58	AVG	10.09	10.67	50.00	-39.33

<b>Test Mode :</b>	<b>USB Mode</b>
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**Test Data**

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

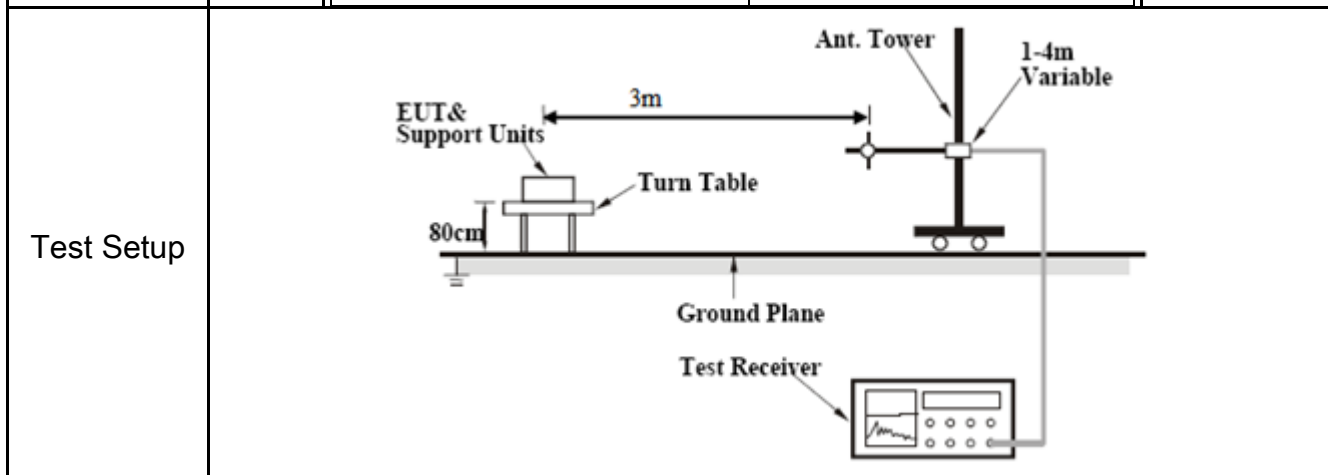
No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB}	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.2007	34.28	QP	10.02	44.30	63.58	-19.28
2	N	0.2007	26.04	AVG	10.02	36.06	53.58	-17.52
3	N	0.4035	24.83	QP	10.02	34.85	57.78	-22.93
4	N	0.4035	12.27	AVG	10.02	22.29	47.78	-25.49
5	N	1.2381	22.11	QP	10.03	32.14	56.00	-23.86
6	N	1.2381	5.84	AVG	10.03	15.87	46.00	-30.13
7	N	2.2794	21.77	QP	10.04	31.81	56.00	-24.19
8	N	2.2794	10.09	AVG	10.04	20.13	46.00	-25.87
9	N	4.0647	18.72	QP	10.06	28.78	56.00	-27.22
10	N	4.0647	7.11	AVG	10.06	17.17	46.00	-28.83
11	N	23.1240	8.86	QP	10.31	19.17	60.00	-40.83
12	N	23.1240	2.27	AVG	10.31	12.58	50.00	-37.42

## 6.2 Radiated Emissions

Temperature	25°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	May 17, 2018
Tested By :	Evans He

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	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	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu\text{V}/\text{m}</math>)</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 ( $\mu\text{V}/\text{m}$ )	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500
		Frequency range (MHz)		Field Strength ( $\mu\text{V}/\text{m}$ )									
		30 – 88		100									
		88 – 216		150									
216 - 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. 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"> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level</li> </ol> </li> </ol>
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	<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. 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 &lt; 98%) □ 10 Hz (Duty cycle &gt; 98%)</p> <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

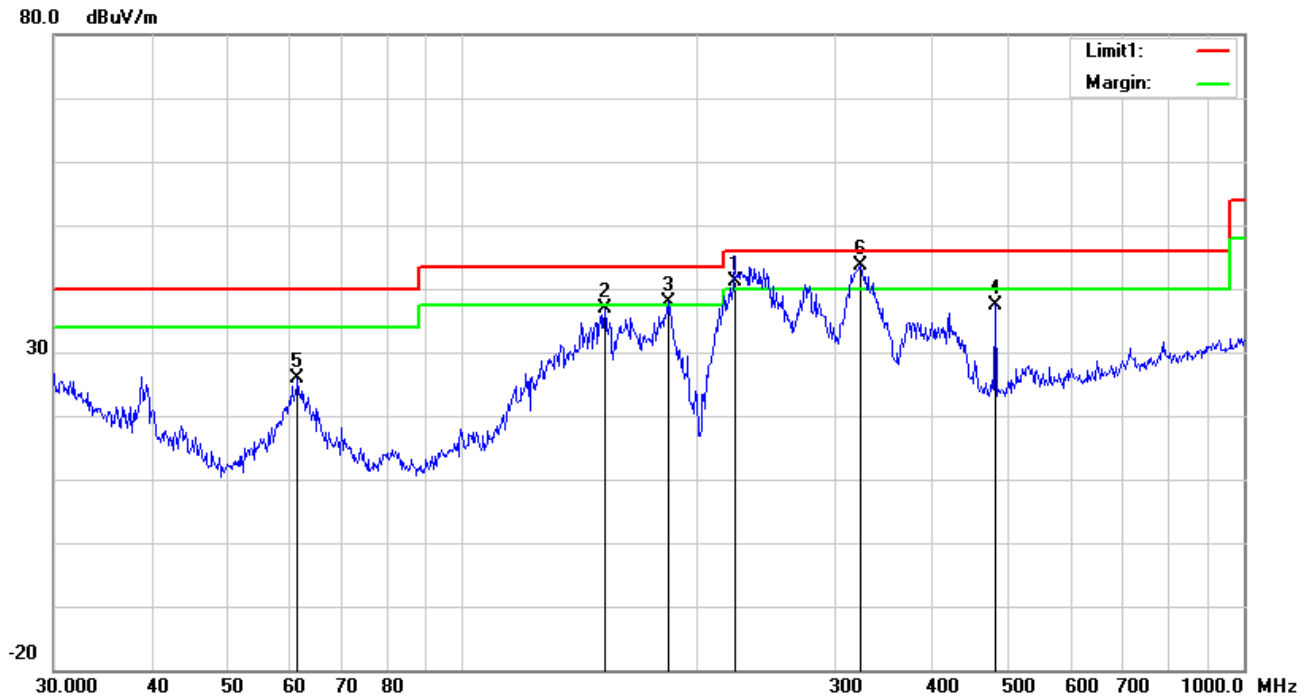
Test Data     Yes                       N/A

Test Plot     Yes (See below)             N/A



<b>Test Mode :</b>	<b>USB Mode</b>
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**Below 1GHz**

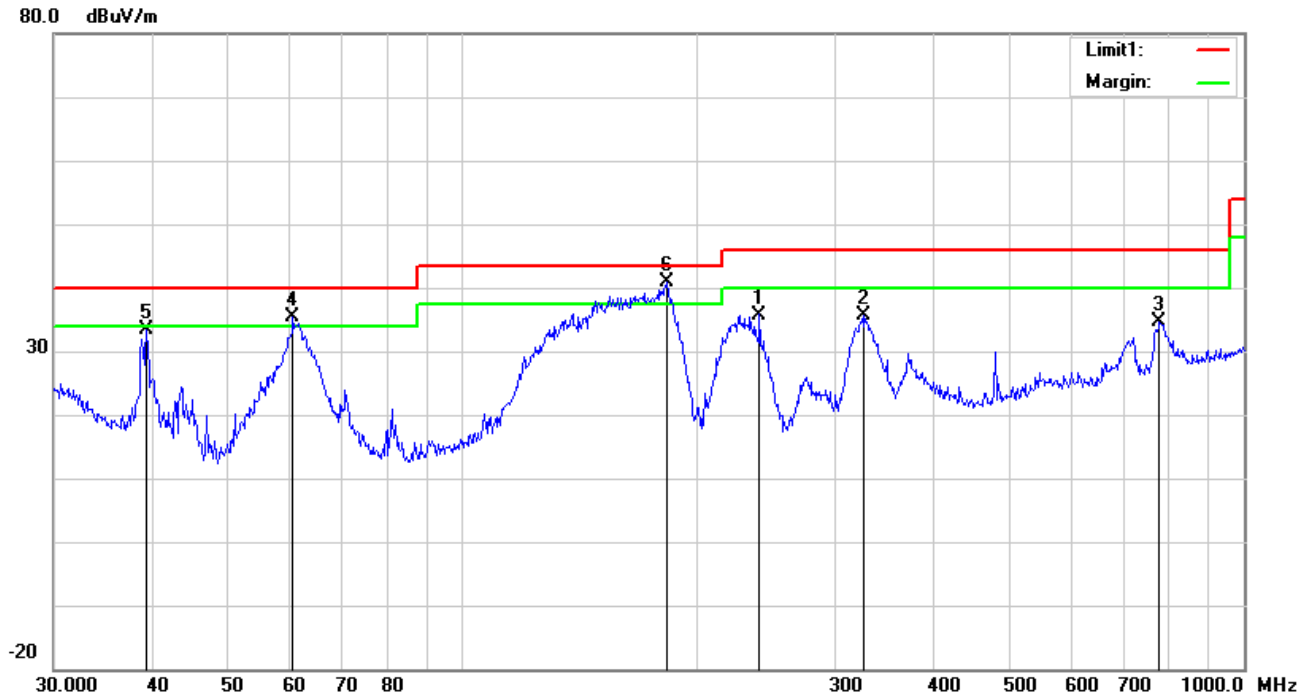


**Test Data**

**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	222.9502	50.20	QP	11.78	22.34	1.61	41.25	46.00	-4.75	100	213
2	H	152.1297	45.22	peak	12.60	22.33	1.35	36.84	43.50	-6.66	100	360
3	H	183.2005	47.53	QP	11.18	22.27	1.42	37.86	43.50	-5.64	100	263
4	H	480.5276	39.73	peak	17.31	21.85	2.31	37.50	46.00	-8.50	100	79
5	H	61.5618	40.18	peak	7.38	22.41	0.79	25.94	40.00	-14.06	100	278
6	H	323.3204	49.94	QP	14.09	22.22	1.91	43.72	46.00	-2.28	100	184

**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	239.9873	44.85	peak	11.54	22.31	1.67	35.75	46.00	-10.25	100	290
2	V	325.5958	41.78	peak	14.14	22.22	1.92	35.62	46.00	-10.38	200	360
3	V	779.6068	31.83	peak	21.16	21.19	2.92	34.72	46.00	-11.28	100	239
4	V	60.7044	49.64	QP	7.34	22.41	0.77	35.34	40.00	-4.66	100	176
5	V	39.4372	40.53	peak	14.31	22.28	0.79	33.35	40.00	-6.65	100	93
6	V	182.5592	50.60	QP	11.14	22.27	1.41	40.88	43.50	-2.62	100	61

***Above 1GHz***

Frequency (MHz)	Read_level (dBμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector (PK/AV)
1136.5	67.67	10	100	V	-19.42	48.25	74	-25.75	PK
1658.28	67.57	192	100	V	-18.22	49.35	74	-24.65	PK
2120.87	62.9	352	100	V	-14.19	48.71	74	-25.29	PK
1381.84	67.8	159	100	H	-19.37	48.43	74	-25.57	PK
1419.99	67.9	129	100	H	-19.04	48.86	74	-25.14	PK
1870.82	64.15	171	100	H	-15.39	48.76	74	-25.24	PK

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

*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.*

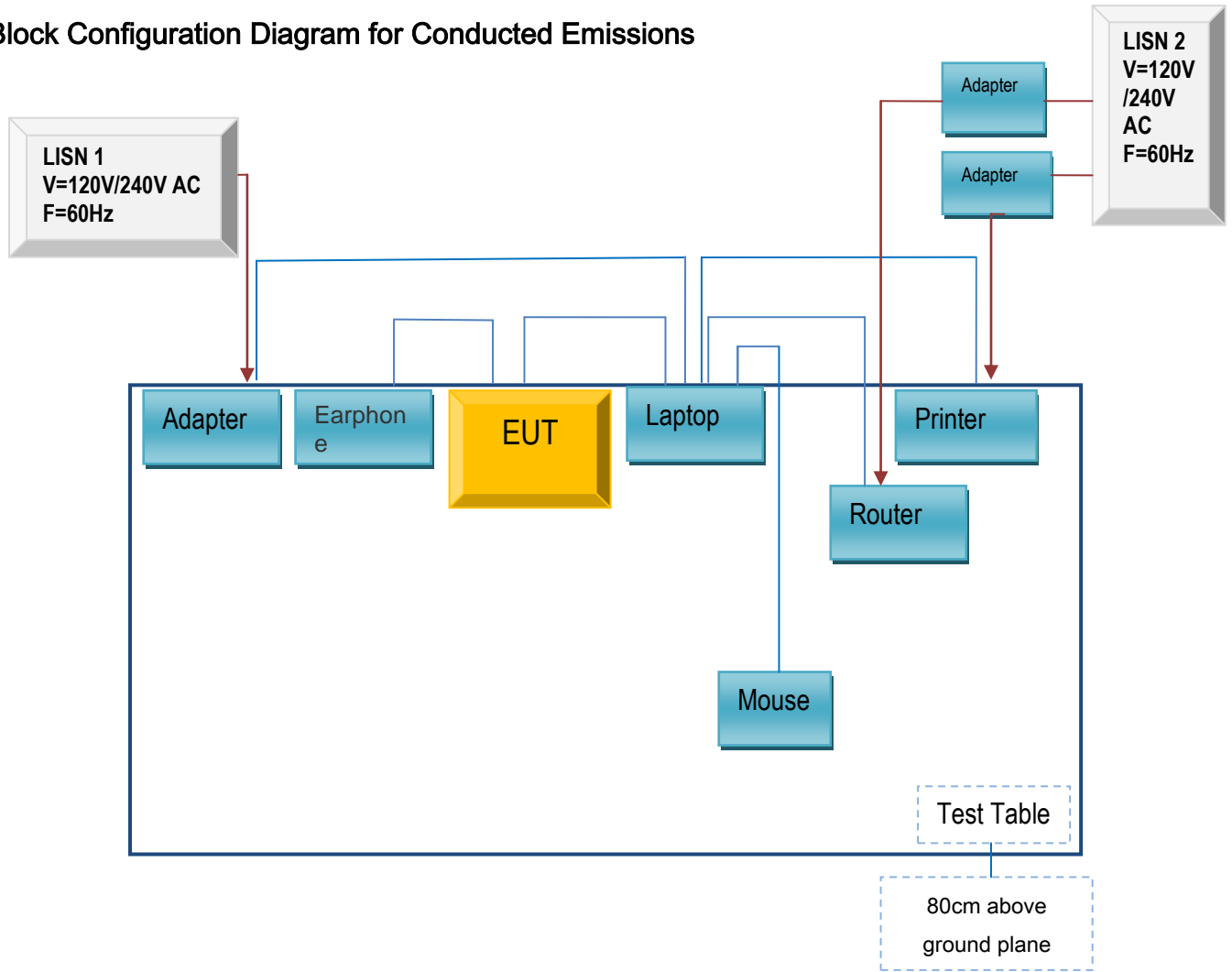
## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
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"/>
<b>Radiated Emissions</b>					
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"/>

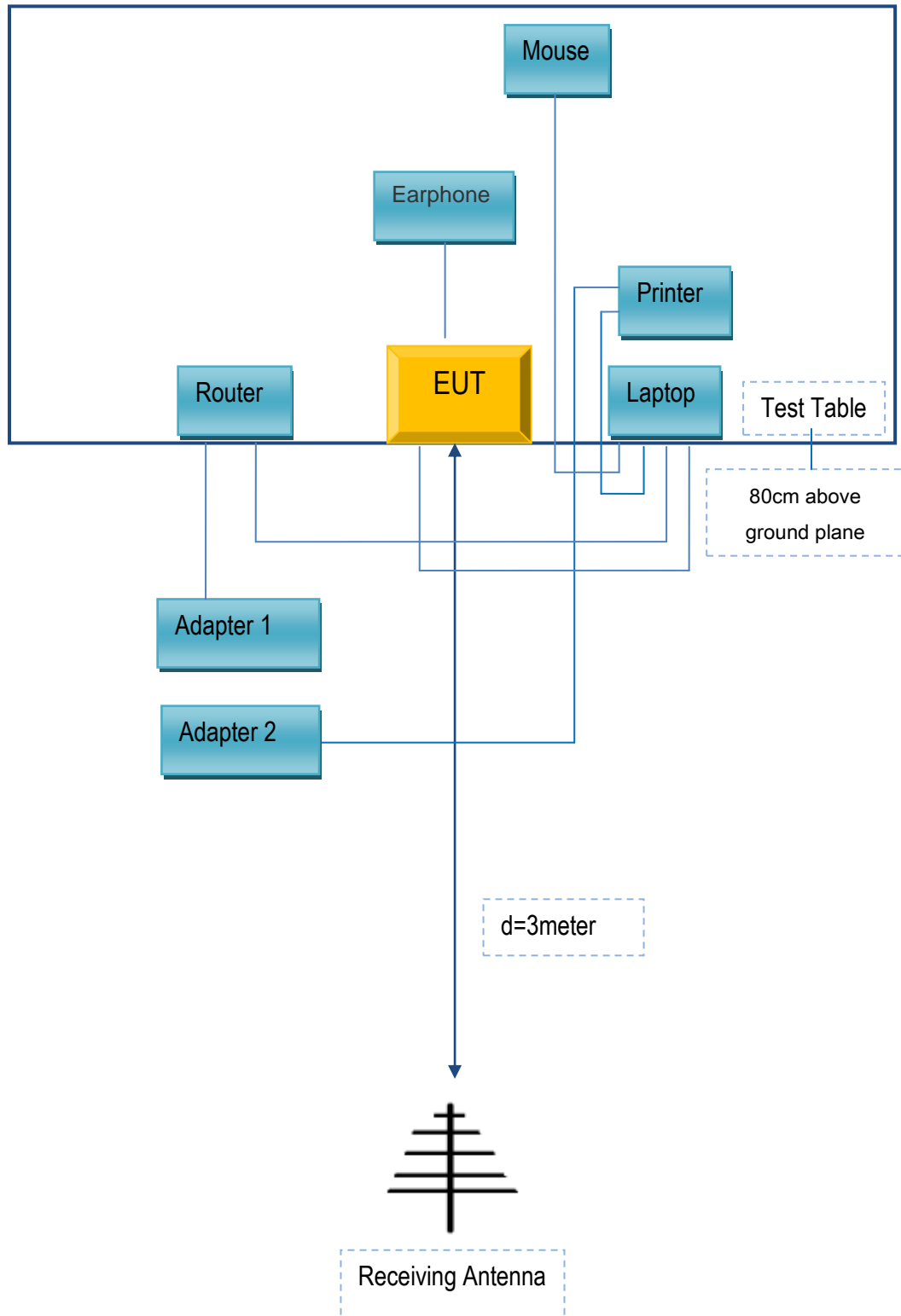
## Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex B.ii. 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

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

Please see the attachment