

# EMC TEST REPORT



Report No.: 17070925-FCC-E

Supersede Report No: N/A

Applicant	SMT TELECOMM HK LIMITED	
Product Name	Mobile Phone	
Model No.	X422A	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	September 20 to October 09, 2017	
Issue Date	October 10, 2017	
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"/>	
Evans He	David Huang	
Evans He Test Engineer	David Huang Checked By	
<p>This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only</p>		

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
17070925-FCC-E	NONE	Original	October 10, 2017

## 2. Customer information

Applicant Name	SMT TELECOMM HK LIMITED
Applicant Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer	SMT TELECOMM HK LIMITED
Manufacturer Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL

## 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: X422A

Serial Model: N/A

GSM850: -1.86dBi

PCS1900: -0.09dBi

UMTS-FDD Band V: -1.86dBi

Antenna Gain: UMTS-FDD Band IV: -0.16dBi

UMTS-FDD Band II: -0.09dBi

WIFI: 0.37dBi

Bluetooth/BLE: 0.37dBi

Antenna Type: PIFA Antenna

Adapter:

Model: PCX422

Input: AC100-240V~50/60Hz,0.15A

Input Power: Output: DC 5.0V~500mA

Battery:

Model: BPX422

Battery Capacity: 3.7V, 1300mAh

Battery Voltage Limit: 4.2V

Equipment Category : JBP

GSM / GPRS: GMSK

EGPRS: GMSK,8PSK

UMTS-FDD: QPSK

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

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

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GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz  
PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz  
UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz  
UMTS-FDD Band IV TX: 1712.4 ~ 1752.6 MHz;  
RX : 2112.4 ~ 2152.6 MHz  
UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;  
RX: 1932.4 ~ 1987.6 MHz  
WIFI: 802.11b/g/n(20M): 2412-2462 MHz  
WIFI: 802.11n(40M): 2422-2452 MHz  
Bluetooth& BLE: 2402-2480 MHz

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

Port: USB Port, Earphone Port

Trade Name : N/A

FCC ID: 2AIMEX422A

Date EUT received: September 20, 2017

Test Date(s): September 20 to October 09, 2017

## 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

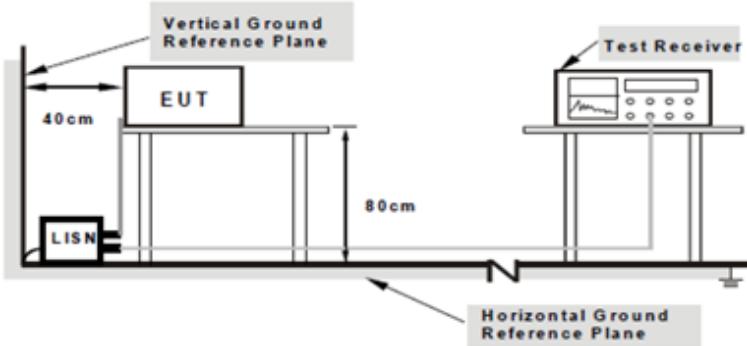
Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB

## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	September 25, 2017
Tested By :	Evans He

#### Requirement(s):

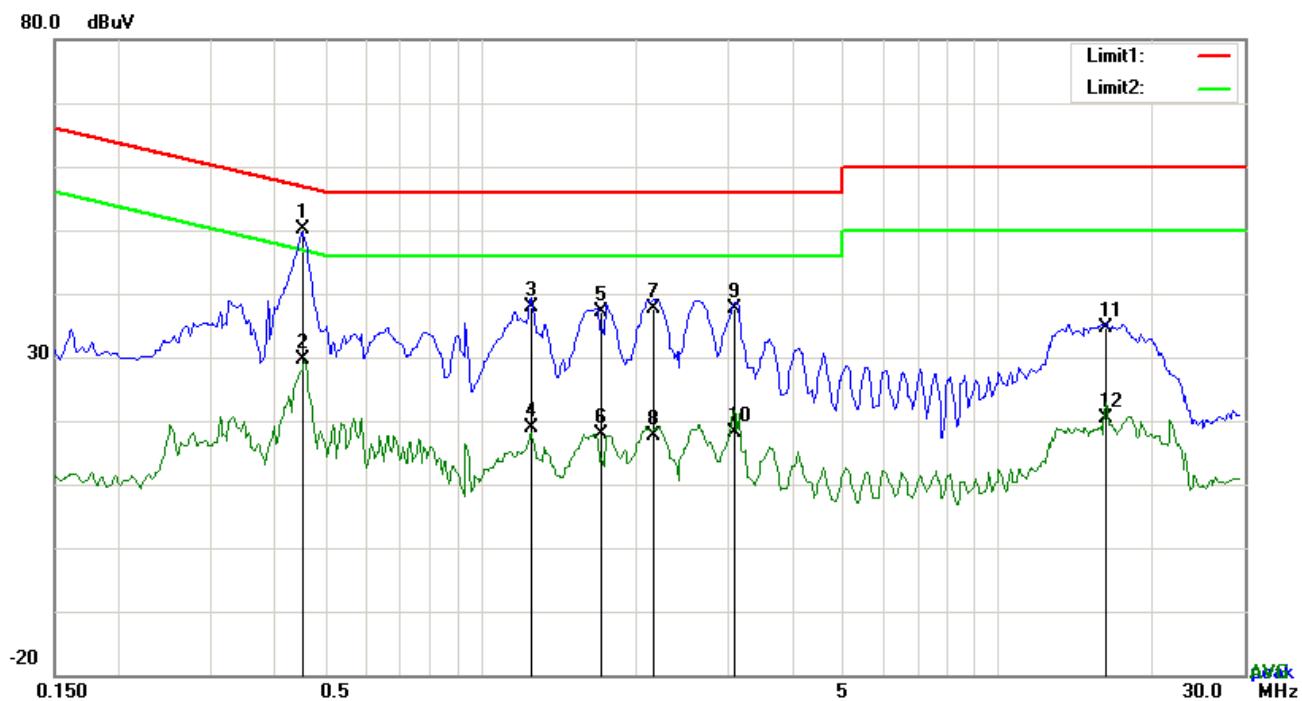
Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 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 (dB<math>\mu</math>V)</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 $\mu$ 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 $\mu$ 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. 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><b>Note:</b> 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"> <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>																

	<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

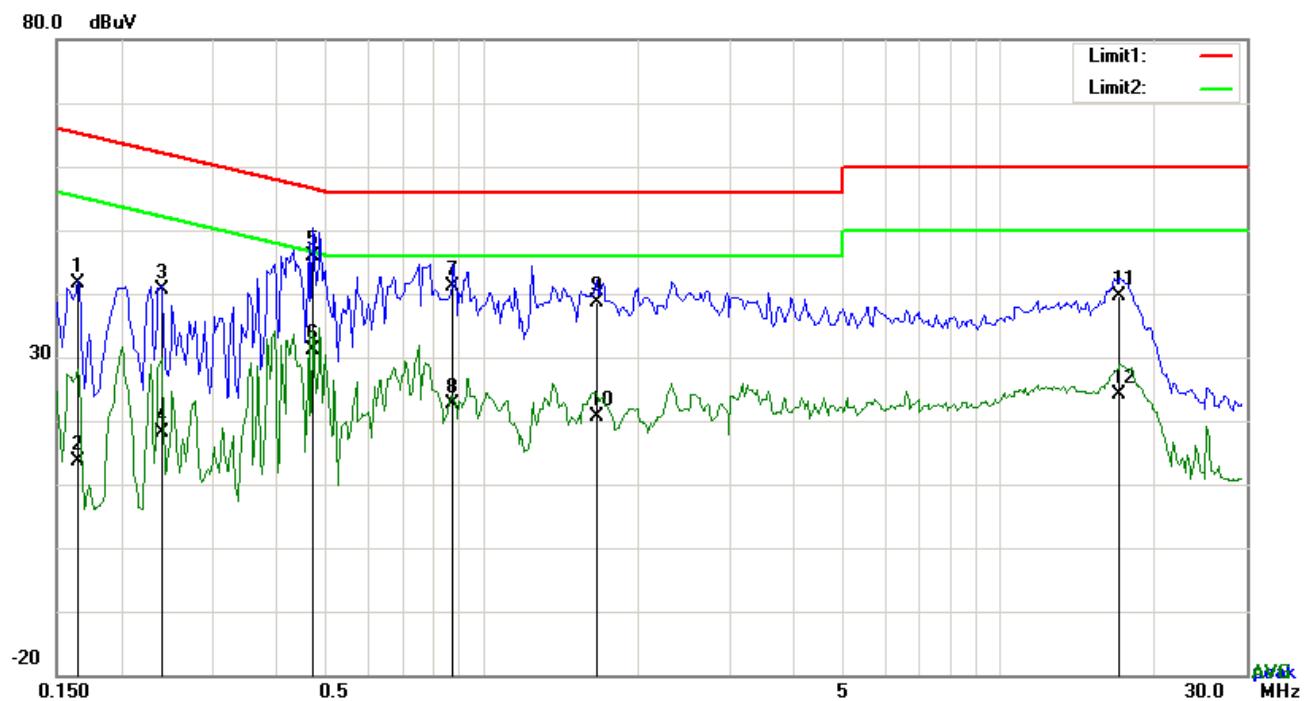
Test Mode : USB Mode



Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.4542	37.98	QP	12.07	50.05	56.80	-6.75
2	L1	0.4542	17.67	AVG	12.07	29.74	46.80	-17.06
3	L1	1.2537	26.44	QP	11.40	37.84	56.00	-18.16
4	L1	1.2537	7.39	AVG	11.40	18.79	46.00	-27.21
5	L1	1.7100	25.66	QP	11.40	37.06	56.00	-18.94
6	L1	1.7100	6.36	AVG	11.40	17.76	46.00	-28.24
7	L1	2.1663	26.11	QP	11.40	37.51	56.00	-18.49
8	L1	2.1663	6.16	AVG	11.40	17.56	46.00	-28.44
9	L1	3.1014	26.17	QP	11.40	37.57	56.00	-18.43
10	L1	3.1014	6.77	AVG	11.40	18.17	46.00	-27.83
11	L1	16.1664	20.16	QP	14.37	34.53	60.00	-25.47
12	L1	16.1664	6.02	AVG	14.37	20.39	50.00	-29.61

Test Mode: **USB Mode**

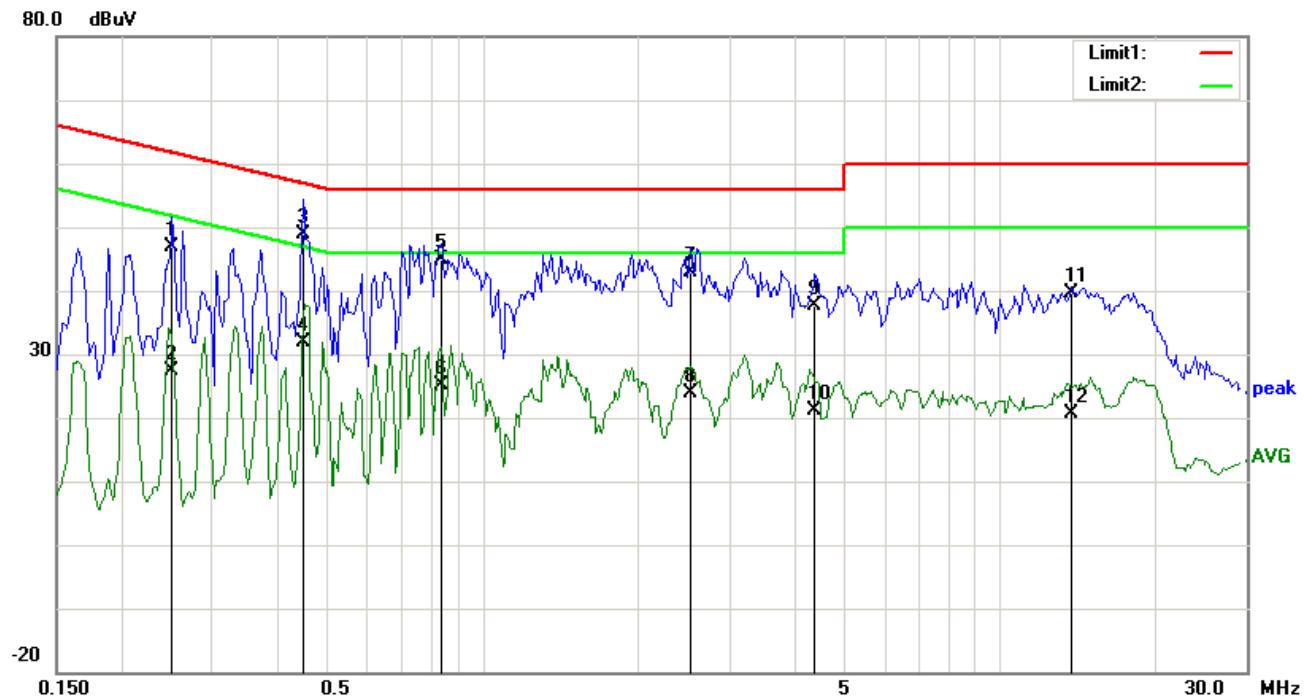


### Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1656	28.41	QP	13.14	41.55	65.18	-23.63
2	N	0.1656	0.38	AVG	13.14	13.52	55.18	-41.66
3	N	0.2397	27.68	QP	12.87	40.55	62.11	-21.56
4	N	0.2397	5.33	AVG	12.87	18.20	52.11	-33.91
5	N	0.4698	33.87	QP	12.01	45.88	56.52	-10.64
6	N	0.4698	19.11	AVG	12.01	31.12	46.52	-15.40
7	N	0.8793	29.60	QP	11.52	41.12	56.00	-14.88
8	N	0.8793	11.05	AVG	11.52	22.57	46.00	-23.43
9	N	1.6671	27.19	QP	11.40	38.59	56.00	-17.41
10	N	1.6671	9.12	AVG	11.40	20.52	46.00	-25.48
11	N	17.0205	25.14	QP	14.53	39.67	60.00	-20.33
12	N	17.0205	9.63	AVG	14.53	24.16	50.00	-25.84

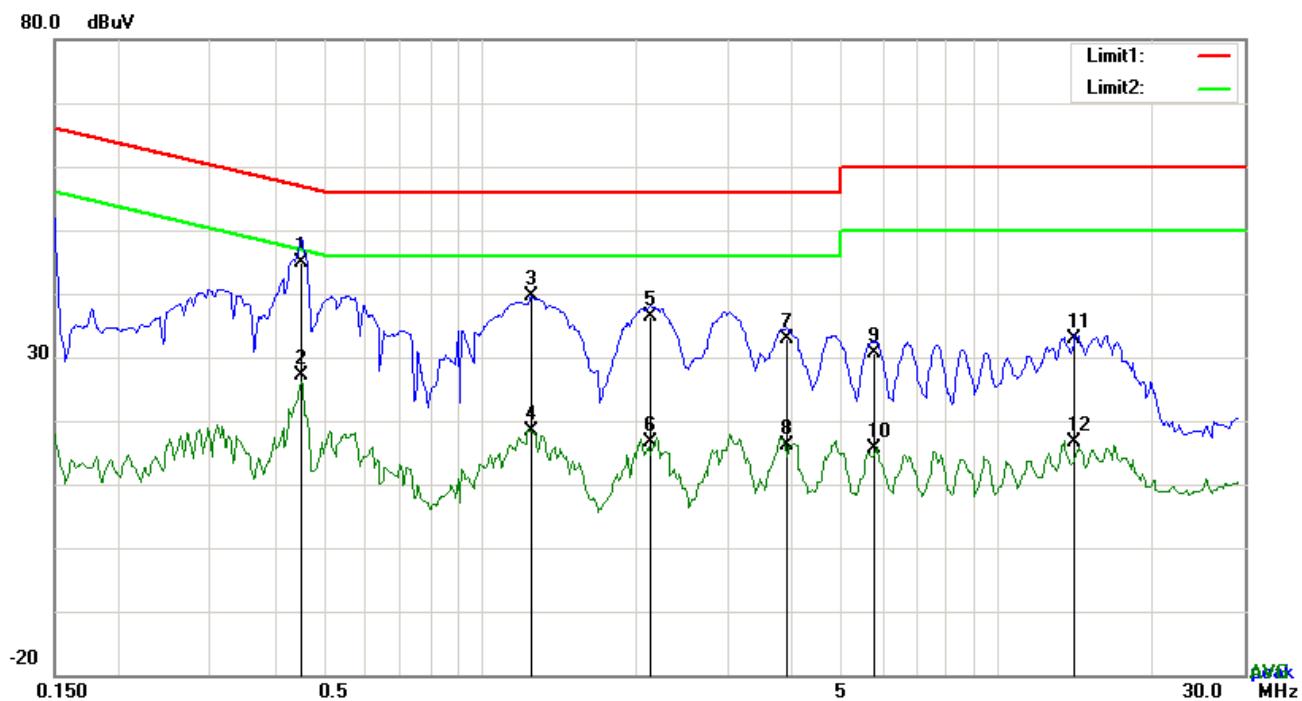
Test Mode : **USB Mode**



Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2514	34.00	QP	12.82	46.82	61.71	-14.89
2	L1	0.2514	14.52	AVG	12.82	27.34	51.71	-24.37
3	L1	0.4503	36.80	QP	12.08	48.88	56.87	-7.99
4	L1	0.4503	19.83	AVG	12.08	31.91	46.87	-14.96
5	L1	0.8325	33.39	QP	11.57	44.96	56.00	-11.04
6	L1	0.8325	13.44	AVG	11.57	25.01	46.00	-20.99
7	L1	2.5212	31.48	QP	11.40	42.88	56.00	-13.12
8	L1	2.5212	12.47	AVG	11.40	23.87	46.00	-22.13
9	L1	4.4001	26.35	QP	11.40	37.75	56.00	-18.25
10	L1	4.4001	9.61	AVG	11.40	21.01	46.00	-24.99
11	L1	13.7367	25.81	QP	13.91	39.72	60.00	-20.28
12	L1	13.7367	6.72	AVG	13.91	20.63	50.00	-29.37

Test Mode : **USB Mode**



**Test Data**

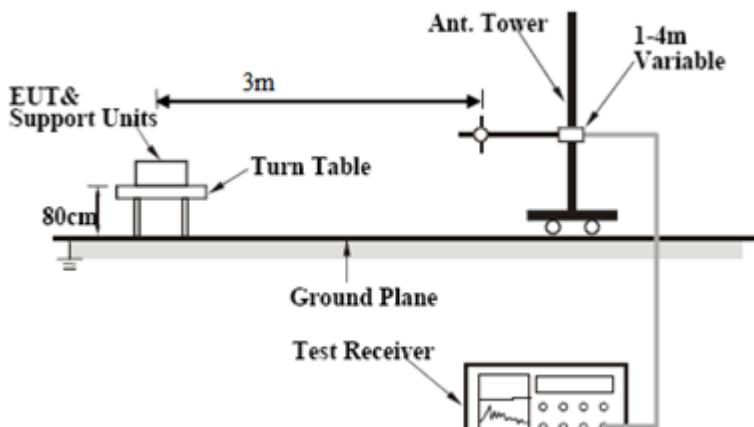
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.4503	32.69	QP	12.08	44.77	56.87	-12.10
2	N	0.4503	15.14	AVG	12.08	27.22	46.87	-19.65
3	N	1.2498	28.28	QP	11.43	39.71	56.00	-16.29
4	N	1.2498	6.94	AVG	11.43	18.37	46.00	-27.63
5	N	2.1273	24.84	QP	11.54	36.38	56.00	-19.62
6	N	2.1273	5.16	AVG	11.54	16.70	46.00	-29.30
7	N	3.9048	21.00	QP	11.76	32.76	56.00	-23.24
8	N	3.9048	4.34	AVG	11.76	16.10	46.00	-29.90
9	N	5.7885	18.50	QP	12.11	30.61	60.00	-29.39
10	N	5.7885	3.43	AVG	12.11	15.54	50.00	-34.46
11	N	14.0994	18.91	QP	13.98	32.89	60.00	-27.11
12	N	14.0994	2.71	AVG	13.98	16.69	50.00	-33.31

## 6.2 Radiated Emissions

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	September 25, 2017
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 (<math>\mu</math>V/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 ( $\mu$ V/m)	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ( $\mu$ 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 &amp; Support Units' assembly is mounted on the turn table. A vertical 'Ant. Tower' is positioned 3m away from the EUT. The antenna height is adjustable, indicated as '1-4m Variable'. A 'Test Receiver' is connected to the antenna, with its signal processed through a '1-4m Variable' section.</p>											
Procedure		<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>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>Vertical or horizontal polarization (whichever gave the higher emission level)</li> </ol> </li> </ol>											

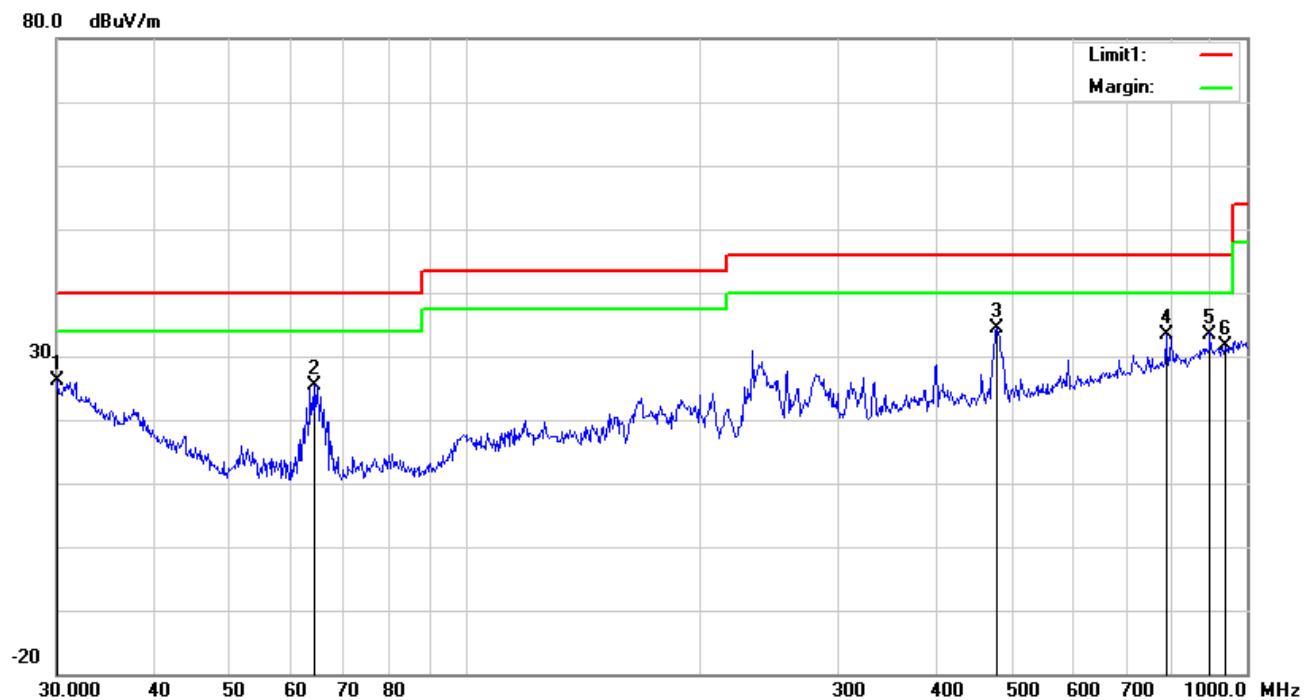
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum 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"> <li>■ 1 kHz (Duty cycle &lt; 98%) <input type="checkbox"/> 10 Hz (Duty cycle &gt; 98%)</li> </ul> <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*

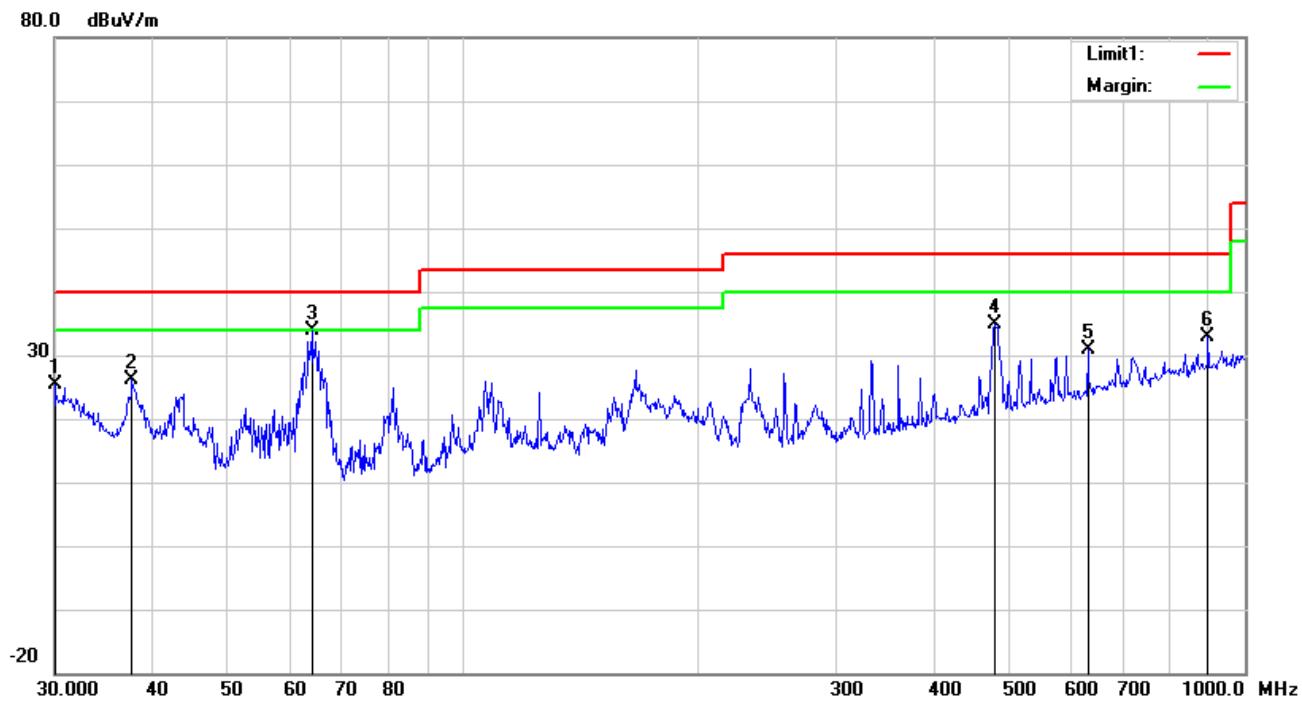


*Test Data*

Horizontal Polarity Plot @3m

No.	P/L	Frequency	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	H	30.1054	26.56	peak	21.32	22.28	0.62	26.22	40.00	-13.78	100	265
2	H	63.9828	39.54	peak	7.50	22.40	0.85	25.49	40.00	-14.51	200	29
3	H	478.8456	36.71	peak	17.28	21.85	2.30	34.44	46.00	-11.56	100	285
4	H	787.8513	30.31	peak	21.25	21.18	2.94	33.32	46.00	-12.68	100	183
5	H	896.9965	28.86	peak	22.47	20.89	3.06	33.50	46.00	-12.50	100	32
6	H	938.8326	26.55	peak	22.69	20.81	3.15	31.58	46.00	-14.42	100	284

### 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	30.0000	25.61	peak	21.40	22.28	0.62	25.35	40.00	-14.65	100	201
2	V	37.6798	32.05	peak	15.59	22.27	0.78	26.15	40.00	-13.85	100	351
3	V	63.9828	47.86	QP	7.50	22.40	0.85	33.81	40.00	-6.19	200	21
4	V	478.8456	37.26	peak	17.28	21.85	2.30	34.99	46.00	-11.01	100	165
5	V	629.4772	30.44	peak	19.42	21.52	2.57	30.91	46.00	-15.09	100	15
6	V	896.9965	28.14	peak	22.47	20.89	3.06	32.78	46.00	-13.22	100	315

### Above 1GHz

Frequency (MHz)	Read_level (dB $\mu$ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Level (dB $\mu$ V/m)	Factors (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector (PK/AV)
1429.8	62.13	134	100	V	-18.97	43.16	74	-30.84	PK
1647.3	65.37	115	100	V	-17.76	47.61	74	-26.39	PK
2106.5	58.77	208	100	V	-14.49	44.28	74	-29.72	PK
1328.9	66.7	36	100	H	-19.36	47.34	74	-26.66	PK
1751.4	63.67	305	100	H	-16.76	46.91	74	-27.09	PK
2633.8	58.59	197	100	H	-13.31	45.28	74	-28.72	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
<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 checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	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	03/23/2017	03/22/2018	<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. EUT And Test Setup Photographs

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

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

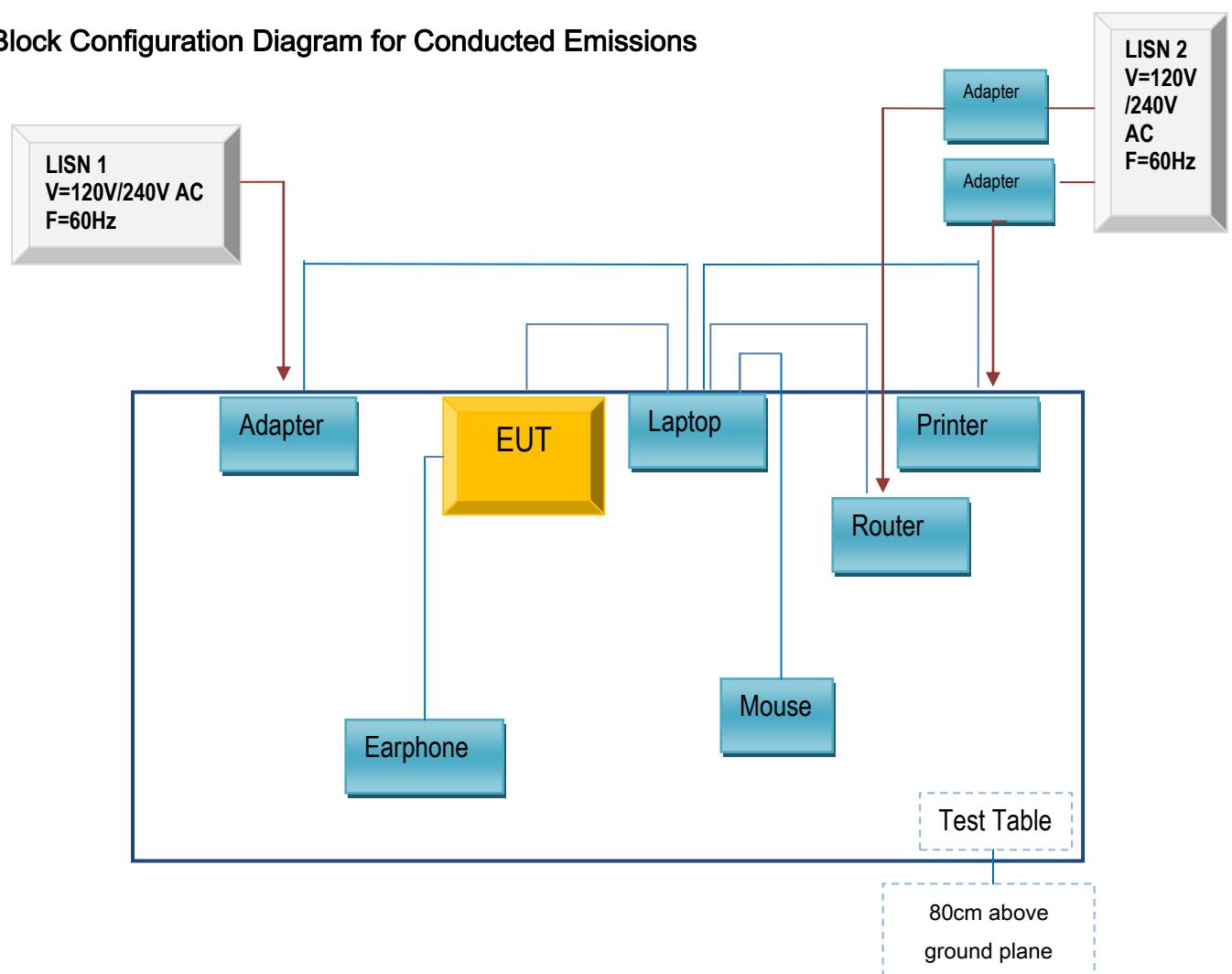
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**Annex B.iii. Photograph: Test Setup Photo**

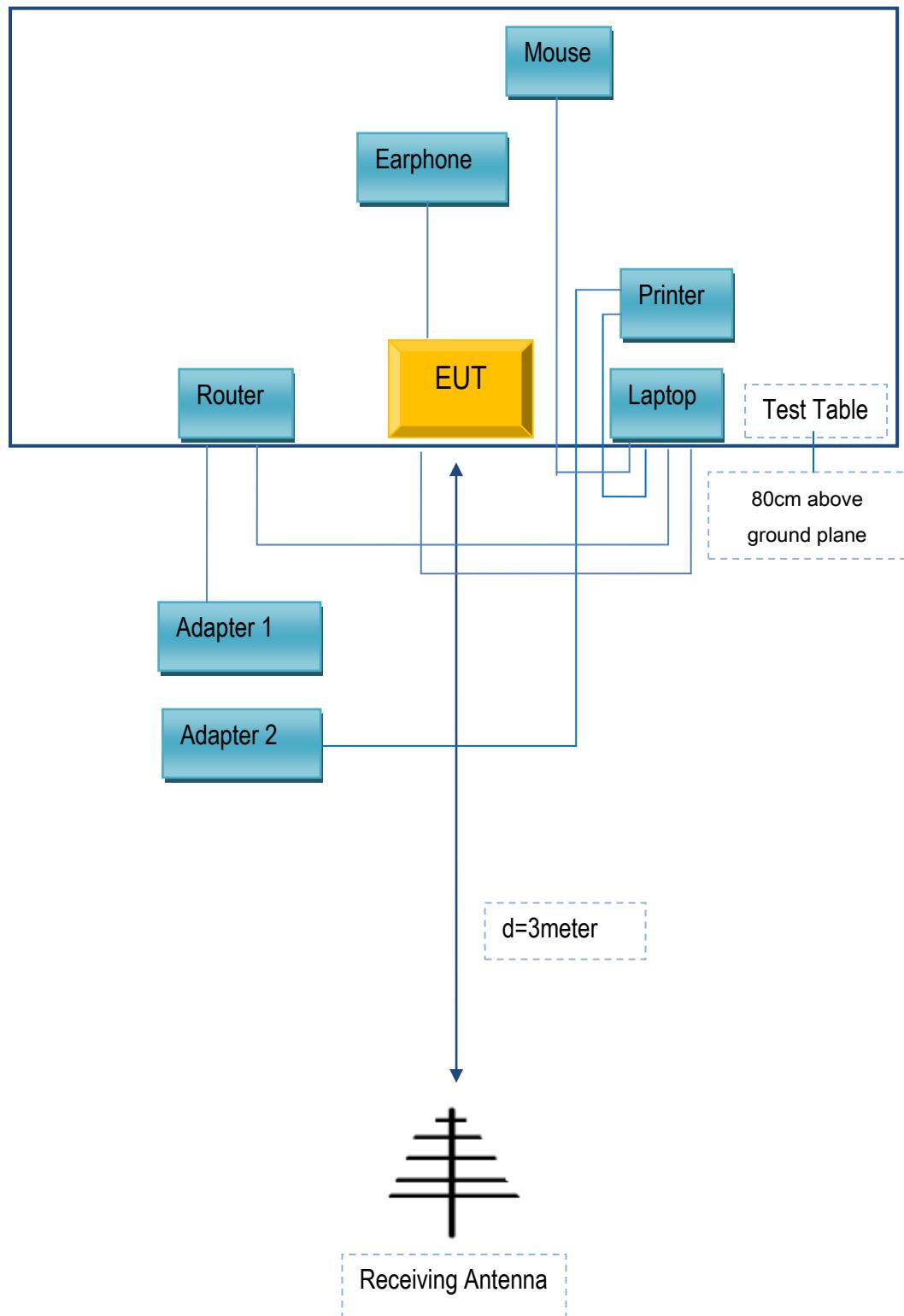
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.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
SMT TELECOMM HK LIMITED	Earphone	X422A	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 D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

## Annex E. DECLARATION OF SIMILARITY

N/A