EMC TEST REPORT



Report No.: 18070496-FCC-E
Supersede Report No: N/A

Applicant INFINIX MOBILITY LIMITED				
Product Name	Mobile phone			
Model No.	X606D			
Serial No.	N/A			
Test Standard	FCC Part 1	FCC Part 15 Subpart B Class B, ANSI C63.4: 2014		
Test Date	May 11 to 2	May 11 to 22, 2018		
Issue Date	May 23, 2018			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mas. He		David Huang		
Evans H Test Engir		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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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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
18070496-FCC-E	NONE	Original	May 23, 2018

2. Customer information

Applicant Name	INFINIX MOBILITY LIMITED	
Applicant Add	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17	
	CANTON RD TST KLN HONG KONG	
Manufacturer	INFINIX MOBILITY LIMITED	
Manufacturer Add	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17	
	CANTON RD TST KLN HONG KONG	

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.	535293	
IC Test Site No.	4842E-1	
Test Software of	Radiated Emission Program-To Shenzhen v2.0	
Radiated Emission		
Test Software of	EZ-EMC(ver.lcp-03A1)	
Conducted Emission		



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone

Main Model: X606D

Serial Model: N/A

GSM850: -3.03dBi PCS1900: -1.93dBi

UMTS-FDD Band V: -3.03dBi
UMTS-FDD Band II: -1.93dBi

Antenna Gain:

UMTS-FDD Band IV: -1.21dBi

WIFI: 1.97dBi

Bluetooth/BLE: 1.97dBi

GPS: 1.97dBi

Antenna Type: PIFA antenna

Adapter :

Model: A88-502000

Input: AC100-240V~50/60Hz,0.35A

Output: DC 5.0V, 2.0A

Input Power: Battery :

Model: BL-39HX

Rating: 3.85V, 3900mAh/4000mAh (min/typ)

15.01Wh/15.40Wh (min/typ)

Limited charge voltage: 4.4V

Equipment Category: JBP



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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 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;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 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 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 : Infinix

Number of Channels:

FCC ID: 2AIZN-X606D

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



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Test Date(s): May 11 to 22, 2018



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

Measurement Uncertainty

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



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6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	26°C
Relative Humidity	55%
Atmospheric Pressure	1016mbar
Test date :	May 15, 2018
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15.		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.			V
107		Frequency ranges	Limit (
		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Test Setup	Vertical Ground Reference Plane Test Receiver				
	Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.				
Procedure	 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. 				



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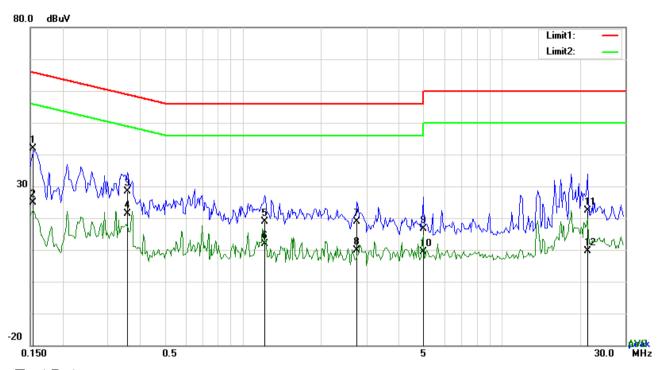
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Mode : USB Mode



Test Data

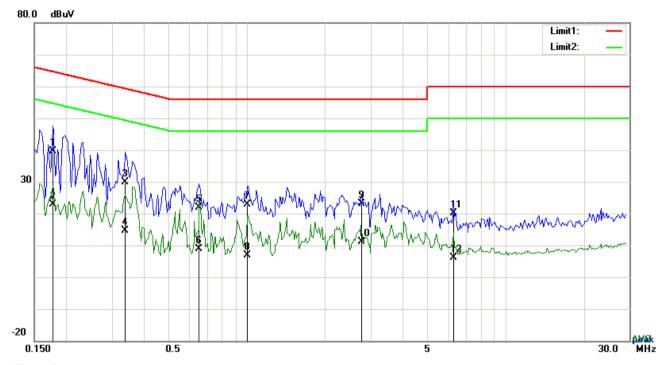
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1539	31.96	QP	10.03	41.99	65.79	-23.80
2	L1	0.1539	14.73	AVG	10.03	24.76	55.79	-31.03
3	L1	0.3567	18.44	QP	10.03	28.47	58.80	-30.33
4	L1	0.3567	11.29	AVG	10.03	21.32	48.80	-27.48
5	L1	1.2147	8.80	QP	10.03	18.83	56.00	-37.17
6	L1	1.2147	1.86	AVG	10.03	11.89	46.00	-34.11
7	L1	2.7591	8.75	QP	10.05	18.80	56.00	-37.20
8	L1	2.7591	-0.24	AVG	10.05	9.81	46.00	-36.19
9	L1	4.9656	6.67	QP	10.08	16.75	56.00	-39.25
10	L1	4.9656	-0.69	AVG	10.08	9.39	46.00	-36.61
11	L1	21.4275	11.95	QP	10.33	22.28	60.00	-37.72
12	L1	21.4275	-0.79	AVG	10.33	9.54	50.00	-40.46



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Test Mode:	USB Mode



Test Data

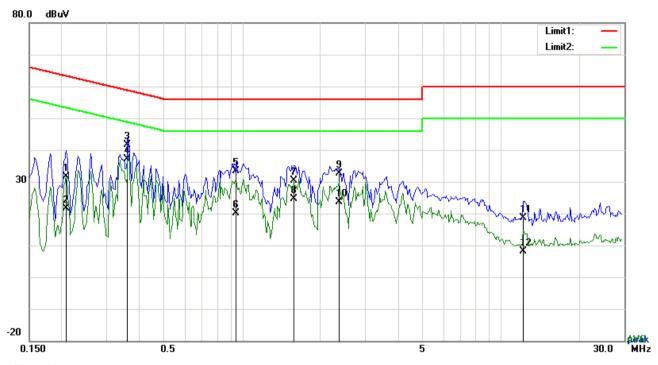
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1773	29.54	QP	10.02	39.56	64.61	-25.05
2	N	0.1773	12.87	AVG	10.02	22.89	54.61	-31.72
3	N	0.3372	19.92	QP	10.02	29.94	59.27	-29.33
4	N	0.3372	4.62	AVG	10.02	14.64	49.27	-34.63
5	N	0.6531	11.76	QP	10.02	21.78	56.00	-34.22
6	N	0.6531	-1.23	AVG	10.02	8.79	46.00	-37.21
7	N	1.0041	12.93	QP	10.03	22.96	56.00	-33.04
8	N	1.0041	-3.17	AVG	10.03	6.86	46.00	-39.14
9	N	2.7669	13.14	QP	10.05	23.19	56.00	-32.81
10	N	2.7669	1.07	AVG	10.05	11.12	46.00	-34.88
11	N	6.2838	10.10	QP	10.09	20.19	60.00	-39.81
12	N	6.2838	-4.03	AVG	10.09	6.06	50.00	-43.94



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Test Mode : USB Mode



Test Data

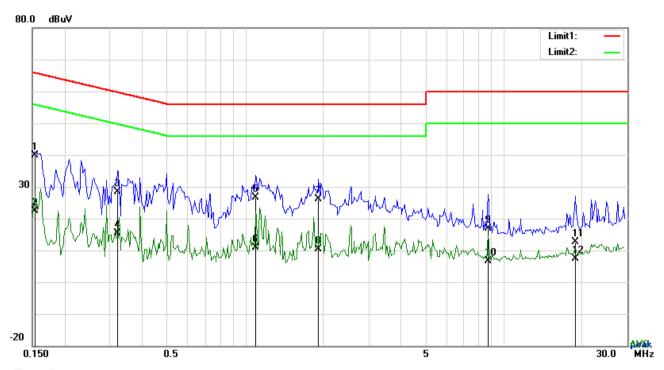
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2085	21.68	QP	10.03	31.71	63.26	-31.55
2	L1	0.2085	11.58	AVG	10.03	21.61	53.26	-31.65
3	L1	0.3606	31.50	QP	10.03	41.53	58.71	-17.18
4	L1	0.3606	27.12	AVG	10.03	37.15	48.71	-11.56
5	L1	0.9456	23.35	QP	10.03	33.38	56.00	-22.62
6	L1	0.9456	10.09	AVG	10.03	20.12	46.00	-25.88
7	L1	1.5930	20.27	QP	10.04	30.31	56.00	-25.69
8	L1	1.5930	14.55	AVG	10.04	24.59	46.00	-21.41
9	L1	2.3691	22.52	QP	10.05	32.57	56.00	-23.43
10	L1	2.3691	13.64	AVG	10.05	23.69	46.00	-22.31
11	L1	12.2001	8.48	QP	10.18	18.66	60.00	-41.34
12	L1	12.2001	-2.04	AVG	10.18	8.14	50.00	-41.86



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Test Mode : USB Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1539	29.79	QP	10.02	39.81	65.79	-25.98
2	N	0.1539	12.46	AVG	10.02	22.48	55.79	-33.31
3	N	0.3216	18.32	QP	10.02	28.34	59.67	-31.33
4	N	0.3216	5.43	AVG	10.02	15.45	49.67	-34.22
5	N	1.0977	16.55	QP	10.03	26.58	56.00	-29.42
6	N	1.0977	0.75	AVG	10.03	10.78	46.00	-35.22
7	N	1.9206	15.98	QP	10.04	26.02	56.00	-29.98
8	N	1.9206	0.30	AVG	10.04	10.34	46.00	-35.66
9	N	8.7096	6.72	QP	10.12	16.84	60.00	-43.16
10	N	8.7096	-3.60	AVG	10.12	6.52	50.00	-43.48
11	N	18.8730	2.48	QP	10.25	12.73	60.00	-47.27
12	N	18.8730	-2.85	AVG	10.25	7.40	50.00	-42.60



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6.2 Radiated Emissions

Temperature	26°C
Relative Humidity	55%
Atmospheric Pressure	1016mbar
Test date :	May 15, 2018
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement Applicable					
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz)	o-frequency devices shall not excified in the following table and s shall not exceed the level of ter limit applies at the band Field Strength (µV/m)	V			
		30 - 88 88 - 216	100 150				
		216 - 960	200				
		Above 960	500				
Test Setup		Support Units Turn Table 80cm Ground Test Ro	d Plane	-			
Procedure	2.						



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			over a full rotation of the EUT) was chosen.
		b.	The EUT was then rotated to the direction that gave the maximum
			emission.
		C.	Finally, the antenna height was adjusted to the height that gave the maximum
			emission.
	3.	The res	olution bandwidth and video bandwidth of test receiver/spectrum analyzer is
		120 kH	z for Quasiy Peak detection at frequency below 1GHz.
	4.	The reso	olution bandwidth of test receiver/spectrum analyzer is 1MHz and video
		bandwi	dth is 3MHz with Peak detection for Peak measurement at frequency above
		1GHz.	
		The re	solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
		bandw	idth with Peak detection for Average Measurement as below at frequency
		above	1GHz.
		■ 1 kH	lz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5.	Steps 2	and 3 were repeated for the next frequency point, until all selected frequency
		points v	vere measured.
Remark			
Remark			
Result	☑ Pa	ISS	Fail
	7		
Test Data	Yes		N/A
Test Plot	Yes (S	See belo	w) $\square_{N/A}$



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Test Mode : USB Mode

Below 1GHz



Test Data

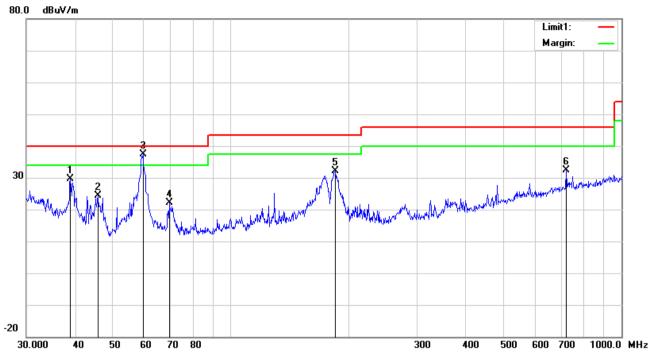
Horizontal Polarity Plot @3m

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	I	357.9287	39.36	peak	14.82	22.13	2.04	34.09	46.00	-11.91	100	244
2	Н	183.8440	37.76	peak	11.21	22.27	1.43	28.13	43.50	-15.37	200	119
3	Н	278.0669	37.04	peak	12.63	22.29	1.75	29.13	46.00	-16.87	100	27
4	Н	59.2325	37.86	peak	7.38	22.41	0.75	23.58	40.00	-16.42	100	285
5	Н	112.5244	28.13	peak	12.59	22.35	1.17	19.54	43.50	-23.96	100	147
6	Н	452.7197	32.18	peak	16.75	21.90	2.15	29.18	46.00	-16.82	100	234



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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	\	38.8879	36.39	peak	14.71	22.27	0.78	29.61	40.00	-10.39	200	114
2	٧	45.6948	35.71	peak	10.29	22.30	0.76	24.46	40.00	-15.54	100	240
3	V	59.6493	51.58	QP	7.34	22.41	0.75	37.26	40.00	-2.74	100	72
4	٧	69.6005	35.74	peak	7.78	22.38	0.97	22.11	40.00	-17.89	100	106
5	٧	185.1379	41.74	peak	11.28	22.28	1.45	32.19	43.50	-11.31	100	172
6	V	721.7259	30.54	peak	20.46	21.31	2.68	32.37	46.00	-13.63	100	112



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Above 1GHz

Frequency	Read_level	A!4l-	Height	Polarity	Factors	Level	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(PK/AV)
1044.46	69.06	317	100	V	-20.03	49.03	74	-24.97	PK
1315.52	69.42	50	100	٧	-19.69	49.73	74	-24.27	PK
1018.39	69.83	52	100	V	-20.38	49.45	74	-24.55	PK
1593.99	64.04	48	100	Н	-17.3	46.74	74	-27.26	PK
1816.99	31.37	322	100	Н	16.15	47.52	74	-26.48	PK
1692.93	67	134	100	Н	-18.05	48.95	74	-25.05	PK

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



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Annex A. TEST INSTRUMENT

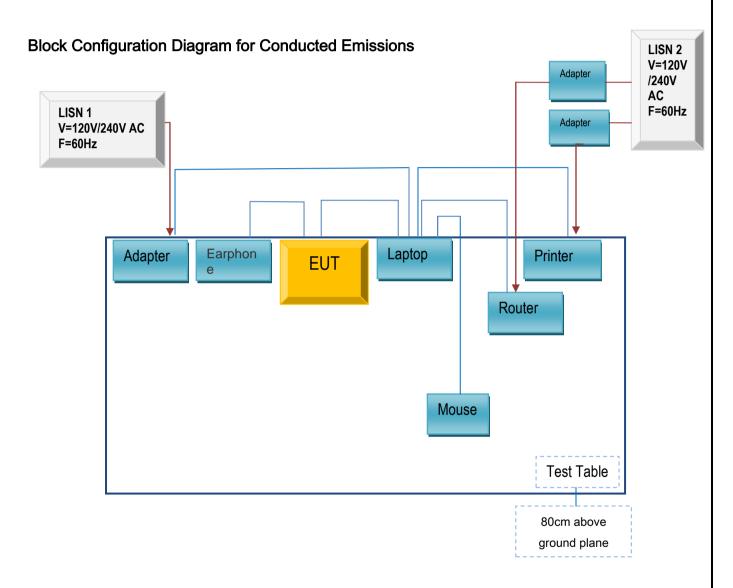
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions		,		
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	<u><</u>
Stabilization Network					
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	>
Stabilization Network					
ISN	ISN T800	34373	09/23/2017	09/22/2018	
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	>
Radiated Emissions					
EMI test receiver	E SL6	100262	09/15/2017	09/14/2018	<
OPT 010 AMPLIFIER	8447E	2727A02430	08/30/2017	08/29/2018	<u><</u>
(0.1-1300MHz)	0447E	2121A02430	08/30/2017	08/29/2018	•
Microwave Preamplifier	0440D	2000 4 02 402	02/22/2040	00/04/0040	<u><</u>
(1 ~ 26.5GHz)	8449B	3008A02402	03/22/2018	03/21/2019	•
Bilog Antenna	IDG	A 1 1 0 7 1 0	00/40/2047	00/49/2040	>
(30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	•
Double Ridge Horn	ALI 110	74250	00/22/2047	00/24/2049	<u><</u>
Antenna	AH-118	71259	09/22/2017	09/21/2018	•



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Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

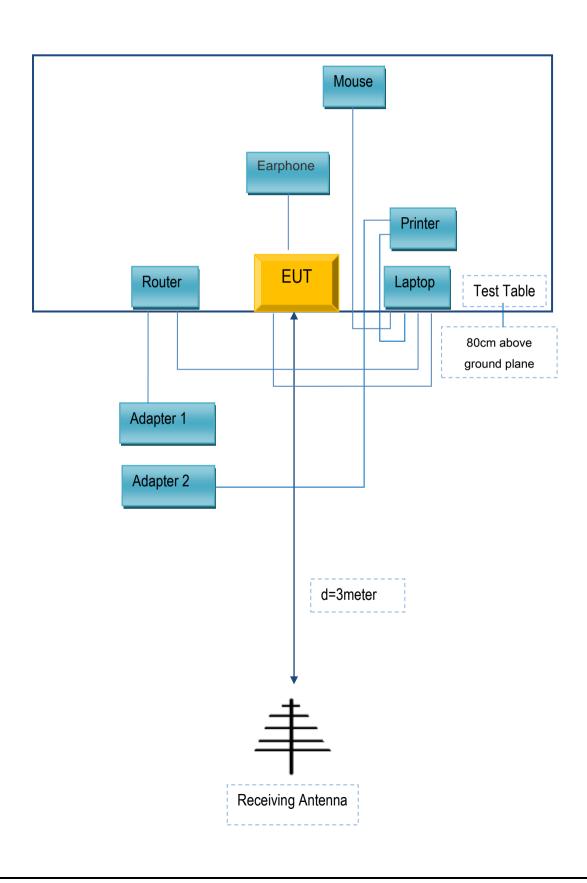
Annex B.i. TEST SET UP BLOCK





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Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

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