EMC TEST REPORT



Report No.: 17070376-FCC-E V1

Supersede Report No: N/A

Applicant	INFINIX MOBILITY LIMITED			
Product Name	Mobile phone			
Model No.	X572	X572		
Serial No.	N/A	N/A		
Test Standard	FCC Part 1	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014		
Test Date	May 19 to June 08, 2017			
Issue Date	June 20, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mas. He		David Huang		
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
17070376-FCC-	NONE	Original	June 09, 2017
		Updated the highest frequency	
17070376-FCC-E V1	V1	from " 2480" to	June 20, 2017
		" 5825" (P20)	

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	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
Manufacturer Add	1-4th 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		
	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 of	Dadiated Essissian Days were To Changebox 200		
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0		
Test Software of	E7 EMC(::en len 0244)		
Conducted Emission	EZ-EMC(ver.lcp-03A1)		



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone

Main Model: X572

Serial Model: N/A

GSM850:-3.2dBi PCS1900:-0.29dBi

UMTS-FDD Band V: -3.2dBi UMTS-FDD Band IV: -2.98dBi UMTS-FDD Band II: -0.29dBi

LTE Band II: 1.7dBi

LTE Band IV: -2.98dBi Antenna Gain:

LTE Band VII: 2.5dBi

WIFI(2.4G): 1.35dBi

WIFI(5150-5250MHz): -2.2 dBi WIFI(5250-5350MHz): -2.2 dBi WIFI(5725-5850MHz): -2.2 dBi

Bluetooth/BLE: 1.35dBi

GPS: -0.29dBi

Antenna Type: PIFA antenna

Adapter:

Model: CQ-18KX

Input: AC100-240V~50/60Hz,600mA

Output: DC 5.0V-9V,2A

DC 9V-12V,1.5A

Input Power: Battery :

Model: BL-42AX

Spec: 3.85V,4200mAh/4300mAh (min/typ)

16.17Wh/16.55Wh (min/typ)

Limited Charge Voltage: 4.4V

Equipment Category: JBP



RF Operating Frequency (ies):

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GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM

Type of Modulation: 802.11b: DSSS

802.11a/g/n20/n40: 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 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~ 1909.3 MHz; RX : 1930.7 ~ 1989.3 MHz

LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX: 2622.5 ~ 2687.5 MHz

802.11b/g: 2412-2462 MHz (TX/RX)

802.11n20: 2412-2462MHz;5180-5320 MHz;

5745-5825 MHz; (TX/RX)

802.11n40: 2422-2452 MHz (TX/RX); 5190-5310 MHz;

5755-5795 MHz; (TX/RX)

802.11 a: 5180-5320 MHz; 5745-5825 MHz (TX/RX)

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz



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GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

Number of Channels: WIFI :802.11b/g: 11CH

WIFI:802.11a: 24CH

WIFI:802.11n20: 11CH(2.4GHz); 24CH(5GHz) WIFI:802.11n40: 9CH(2.4GHz); 12CH(5GHz)

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Trade Name : Infinix

FCC ID: 2AIZN-X572

Date EUT received: May 18, 2017

Test Date(s): May 19 to June 08, 2017



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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	23°C
Relative Humidity	57%
Atmospheric Pressure	1020mbar
Test date :	May 23, 2017
Tested By:	Evans He

Requirement(s):

Spec	Item	Requirement		Applicable	
47CFR§15. 107	a)	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.		<u>></u>	
107		Frequency ranges	Limit (dBμV)	
		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Test Setup	est Setup Vertical Ground Reference Plane EUT Boom Horizontal Ground				
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. 				



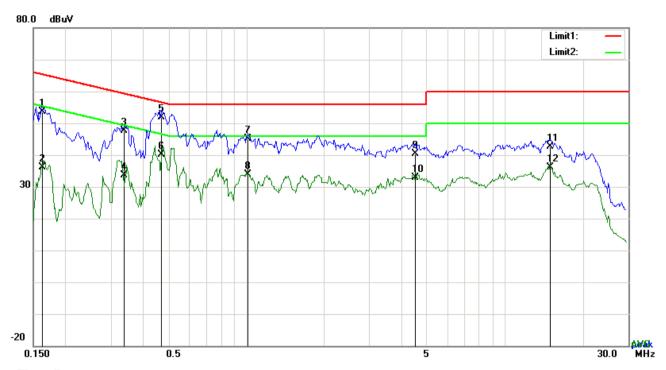
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	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal 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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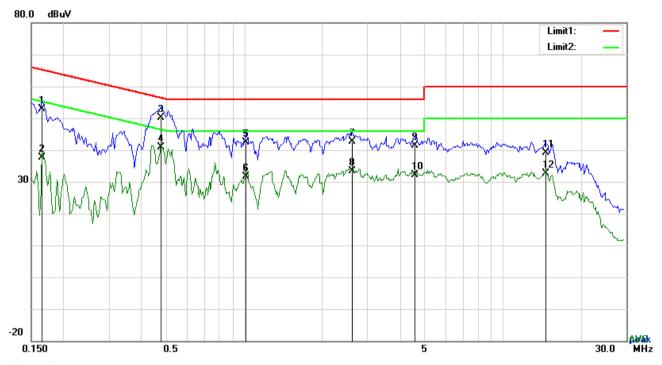
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency Reading		Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1624	43.51	QP	10.03	53.54	65.34	-11.80
2	L1	0.1624	26.09	AVG	10.03	36.12	55.34	-19.22
3	L1	0.3372	37.67	QP	10.03	47.70	59.27	-11.57
4	L1	0.3372	23.60	AVG	10.03	33.63	49.27	-15.64
5	L1	0.4698	41.91	QP	10.03	51.94	56.52	-4.58
6	L1	0.4698	30.18	AVG	10.03	40.21	46.52	-6.31
7	L1	1.0119	35.00	QP	10.03	45.03	56.00	-10.97
8	L1	1.0119	23.91	AVG	10.03	33.94	46.00	-12.06
9	L1	4.5054	30.28	QP	10.07	40.35	56.00	-15.65
10	L1	4.5054	22.69	AVG	10.07	32.76	46.00	-13.24
11	L1	14.9652	32.45	QP	10.22	42.67	60.00	-17.33
12	L1	14.9652	25.85	AVG	10.22	36.07	50.00	-13.93



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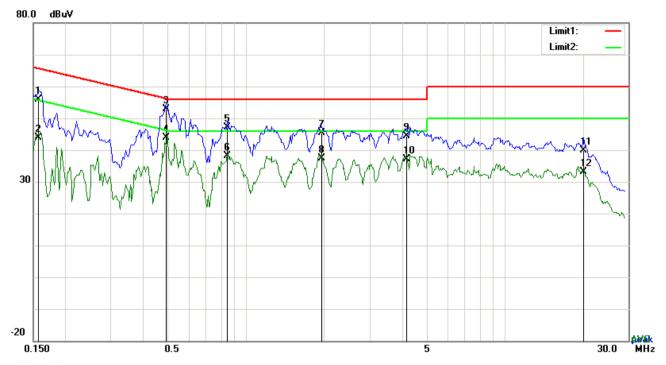
Test Data

Phase Neutral Plot at 120Vac, 60Hz

	That tradition to the first of								
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)	
1	N	0.1656	42.91	QP	10.02	52.93	65.18	-12.25	
2	N	0.1656	27.50	AVG	10.02	37.52	55.18	-17.66	
3	N	0.4776	40.20	QP	10.02	50.22	56.38	-6.16	
4	N	0.4776	30.78	AVG	10.02	40.80	46.38	-5.58	
5	N	1.0197	32.24	QP	10.03	42.27	56.00	-13.73	
6	N	1.0197	21.60	AVG	10.03	31.63	46.00	-14.37	
7	N	2.6187	32.59	QP	10.05	42.64	56.00	-13.36	
8	N	2.6187	23.42	AVG	10.05	33.47	46.00	-12.53	
9	N	4.5522	31.31	QP	10.07	41.38	56.00	-14.62	
10	N	4.5522	21.97	AVG	10.07	32.04	46.00	-13.96	
11	N	14.6610	28.81	QP	10.20	39.01	60.00	-20.99	
12	N	14.6610	22.41	AVG	10.20	32.61	50.00	-17.39	



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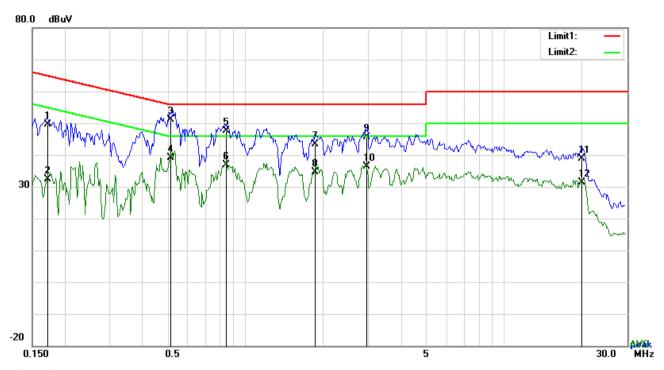
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	requency Reading		Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1578	45.82	QP	10.03	55.85	65.58	-9.73
2	L1	0.1578	33.97	AVG	10.03	44.00	55.58	-11.58
3	L1	0.4893	42.91	QP	10.03	52.94	56.18	-3.24
4	L1	0.4893	33.74	AVG	10.03	43.77	46.18	-2.41
5	L1	0.8481	37.18	QP	10.03	47.21	56.00	-8.79
6	L1	0.8481	27.98	AVG	10.03	38.01	46.00	-7.99
7	L1	1.9596	35.45	QP	10.04	45.49	56.00	-10.51
8	L1	1.9596	27.26	AVG	10.04	37.30	46.00	-8.70
9	L1	4.1622	34.24	QP	10.07	44.31	56.00	-11.69
10	L1	4.1622	26.96	AVG	10.07	37.03	46.00	-8.97
11	L1	20.1522	29.58	QP	10.30	39.88	60.00	-20.12
12	L1	20.1522	22.86	AVG	10.30	33.16	50.00	-16.84



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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	0.1722	39.62	QP	10.02	49.64	64.85	-15.21
2	N	0.1722	22.38	AVG	10.02	32.40	54.85	-22.45
3	N	0.5166	41.10	QP	10.02	51.12	56.00	-4.88
4	N	0.5166	29.10	AVG	10.02	39.12	46.00	-6.88
5	N	0.8442	37.63	QP	10.03	47.66	56.00	-8.34
6	N	0.8442	26.75	AVG	10.03	36.78	46.00	-9.22
7	N	1.8582	33.31	QP	10.04	43.35	56.00	-12.65
8	N	1.8582	24.60	AVG	10.04	34.64	46.00	-11.36
9	N	2.9580	35.67	QP	10.05	45.72	56.00	-10.28
10	N	2.9580	26.33	AVG	10.05	36.38	46.00	-9.62
11	N	20.0235	28.62	QP	10.26	38.88	60.00	-21.12
12	N	20.0235	21.06	AVG	10.26	31.32	50.00	-18.68



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6.2 Radiated Emissions

Temperature	23°C
Relative Humidity	57%
Atmospheric Pressure	1020mbar
Test date :	May 23, 2017
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 specified the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 – 88	Y		
		88 - 216 216 - 960	150 200		
		Above 960	500		
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver				
Procedure	 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: Vertical or horizontal polarization (whichever gave the higher emission level 				



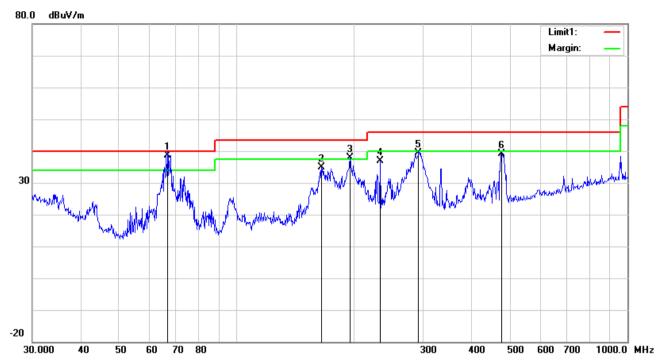
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		ove	r a full rotation of the EUT) was chosen.
	k	o. The	EUT was then rotated to the direction that gave the maximum
		emis	ssion.
		c. Fina	ally, the antenna height was adjusted to the height that gave the maximum
		emi	ssion.
	3. 7	Γhe resolution	on bandwidth and video bandwidth of test receiver/spectrum analyzer is
	1	120 kHz for	Quasiy Peak detection at frequency below 1GHz.
	4. T	he resolutio	n bandwidth of test receiver/spectrum analyzer is 1MHz and video
	t	andwidth is	3MHz with Peak detection for Peak measurement at frequency above
	1	IGHz.	
		The resolut	ion bandwidth of test receiver/spectrum analyzer is 1MHz and the video
		bandwidth v	with Peak detection for Average Measurement as below at frequency
		above 1GH	Z.
		■ 1 kHz (D	uty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. 8	Steps 2 and	3 were repeated for the next frequency point, until all selected frequency
	ŗ	oints were	measured.
Remark			
rtemant			
Result	Pass	3	Fail
l.	7		
Test Data	Yes		N/A
Test Plot	Yes (See	e below)	□ _{N/A}



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Below 1GHz



Test Data

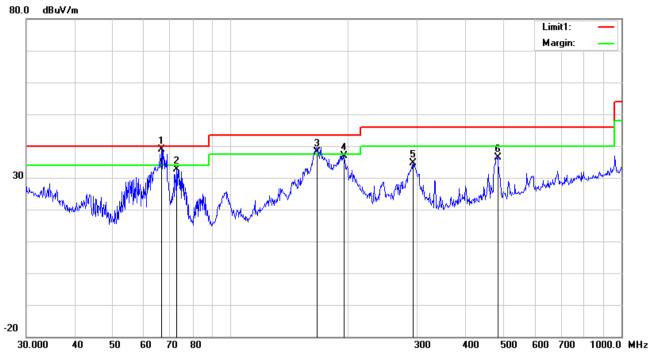
Horizontal Polarity Plot @3m

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	Τ	66.4989	52.56	QP	7.62	22.39	0.91	38.70	40.00	-1.30	100	183
2	Н	164.9075	43.46	peak	12.21	22.27	1.38	34.78	43.50	-8.72	200	22
3	Н	195.1365	46.78	QP	11.83	22.35	1.54	37.80	43.50	-5.70	100	283
4	Н	232.5318	45.98	peak	11.64	22.32	1.64	36.94	46.00	-9.06	100	65
5	Н	292.0583	46.76	QP	13.25	22.29	1.78	39.50	46.00	-6.50	100	333
6	Н	475.4991	41.49	peak	17.21	21.86	2.28	39.12	46.00	-6.88	100	109



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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	>	66.4989	52.66	QP	7.62	22.39	0.91	38.80	40.00	-1.20	100	308
2	٧	72.5917	46.35	peak	7.75	22.39	0.97	32.68	40.00	-7.32	100	153
3	٧	166.0680	46.98	QP	12.11	22.26	1.37	38.20	43.50	-5.30	100	43
4	V	195.1365	45.89	peak	11.83	22.35	1.54	36.91	43.50	-6.59	100	182
5	V	293.0842	41.85	peak	13.30	22.29	1.78	34.64	46.00	-11.36	100	339
6	٧	482.2156	38.57	peak	17.34	21.85	2.32	36.38	46.00	-9.62	100	162



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Above 1GHz

Frequency	Read_level	A - to - at-	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1529.051	57.73	108	100	V	40.88	-16.85	74	-33.12	PK
2180.197	72.1	56	100	V	57.95	-14.15	74	-16.05	PK
2909.231	72.49	115	100	V	59.79	-12.7	74	-14.21	PK
1327.235	70.03	247	200	Н	52.46	-17.57	74	-21.54	PK
1696.503	72.77	343	100	Н	56.73	-16.04	74	-17.27	PK
2484.854	72.65	94	100	Н	58.99	-13.66	74	-15.01	PK

Note1: The highest frequency of the EUT is 5825 MHz, so the testing has been conformed to 5*5825MHz=29,125MHz.

Note 2: 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	09/16/2016	09/15/2017	₹
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<u><</u>
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<u>\</u>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	(
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<u> </u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<u>S</u>

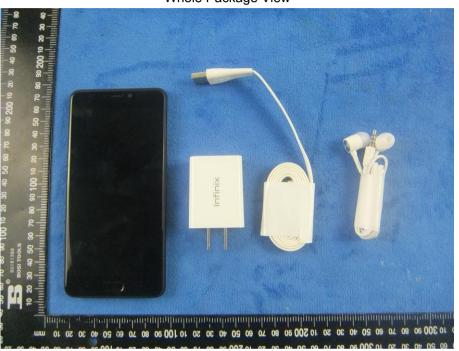


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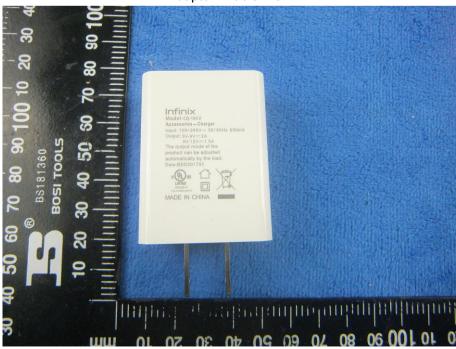
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View





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EUT - Front View



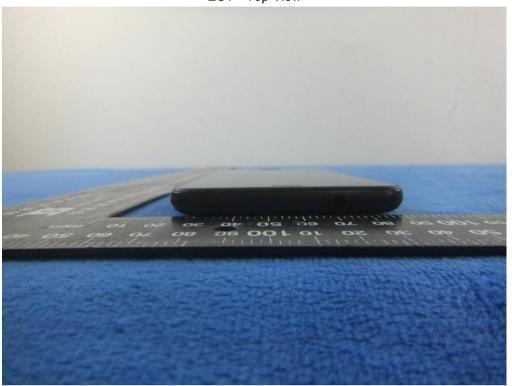
EUT - Rear View



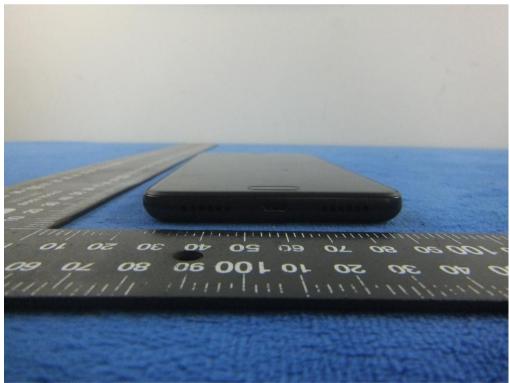


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EUT - Top View



EUT - Bottom View





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EUT - Left View



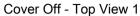
EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2





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Battery - Front View



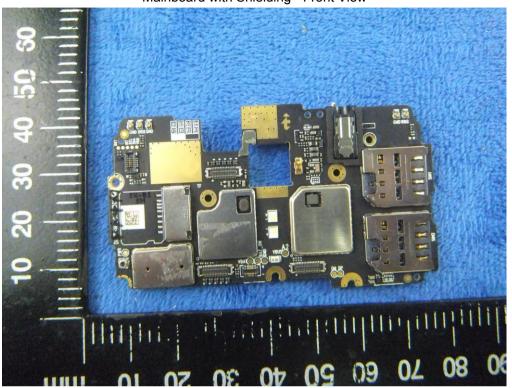
Battery - Rear View



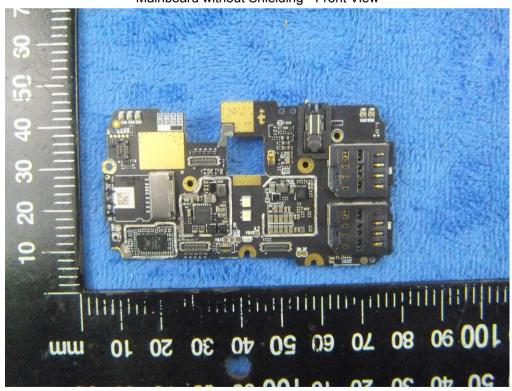


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Mainboard with Shielding - Front View



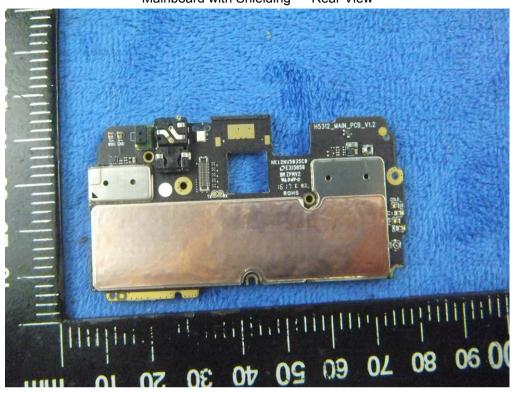
Mainboard without Shielding - Front View



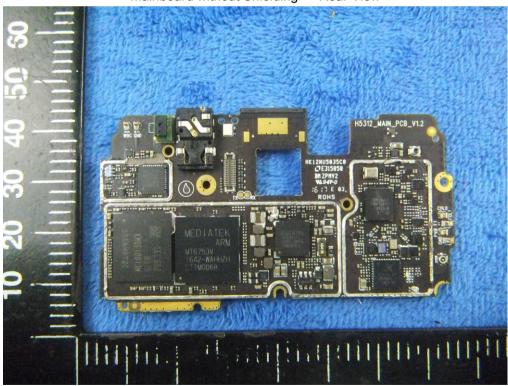


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Mainboard with Shielding - Rear View



Mainboard without Shielding - Rear View





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LCD - Front View



LCD - Rear View





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GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE - Antenna View





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LTE - Antenna View



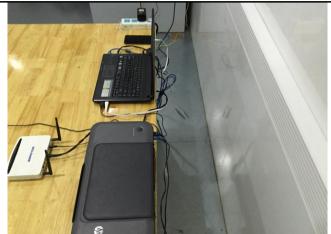


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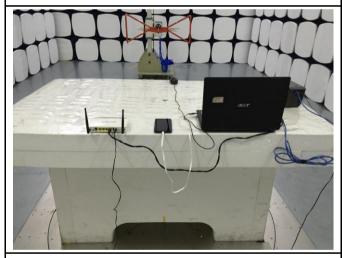
Annex B.iii. Photograph: Test Setup Photo



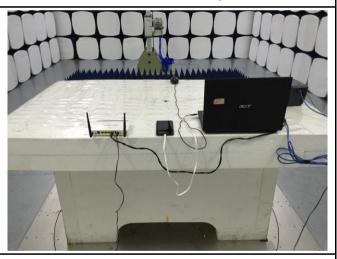
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Conducted Emissions Test Setup - Front View



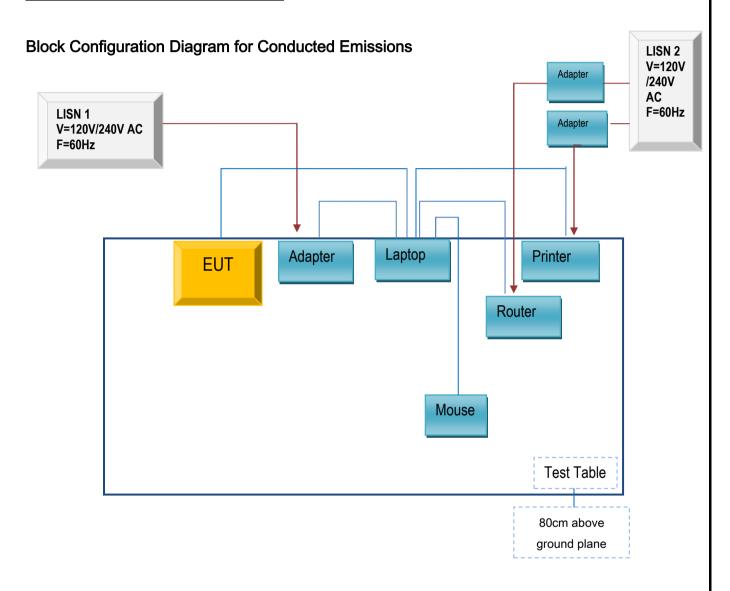
Conducted Emissions Test Setup - Side View



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

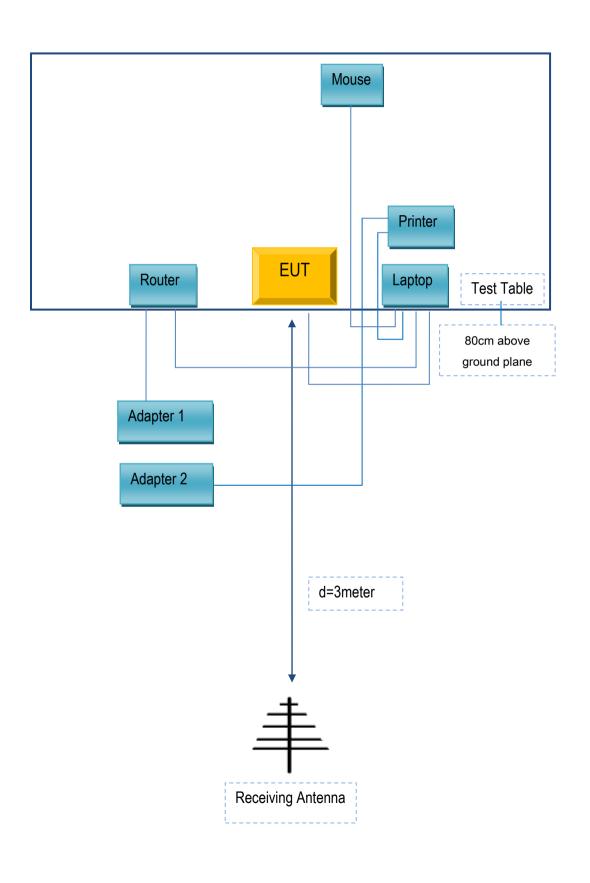
Annex C.ii. TEST SET UP BLOCK





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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

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 D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A