# EMC TEST REPORT



Report No.: 17071153-FCC-E
Supersede Report No: N/A

Applicant	MOVILTELCO TRADE, S.L			
Product Name	Mobile phone			
Model No.	M14D	M14D		
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	November 10 to 23, 2017			
Issue Date	November 24, 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		

This test report may be reproduced in full only

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
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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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.



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## **Accreditations for Conformity Assessment**

	<del>-</del>
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
17071153-FCC-E	NONE	Original	November 24, 2017

# 2. Customer information

Applicant Name	MOVILTELCO TRADE, S.L
Applicant Add	Street: ABTAO,25-1Floor A-office MADRID-SPAIN
Manufacturer	MOVILTELCO TRADE, S.L
Manufacturer Add	Street: ABTAO,25-1Floor A-office MADRID-SPAIN

# 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	Bullioted Enviroine Bossess To Obere have 200	
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	E7 FM2( 1 2244)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



Port:

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# 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	M14D
Serial Model:	N/A
Antenna Gain:	GSM850: 0.35dBi PCS1900: 0.65dBi Bluetooth: 0.35dBi
Antenna Type:	GSM: PIFA antenna BT: Monopole antenna
Input Power:	Adapter: Model: M14D Input: AC100-240V~50/60Hz,0.20A Output: DC 5.0V,500mA Battery Model: M14D Spec: 3.7V, 600mAh Charging Voltage: 4.2V
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK Bluetooth: GFSK, π /4DQPSK, 8DPSK
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 Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH Bluetooth: 79CH

USB Port, Earphone Port



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FCC ID: 2ACQKTELCO014

Date EUT received: November 09, 2017

Test Date(s): November 10 to 23, 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	54%
Atmospheric Pressure	1014mbar
Test date :	November 11, 2017
Tested By:	Evans He

#### Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 107	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				
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	Setup  Vertical Ground Reference Plane  EUT  Bocm  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 eq	m x 1m x 0.8m high, n	on-metallic table.	
		2. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.			



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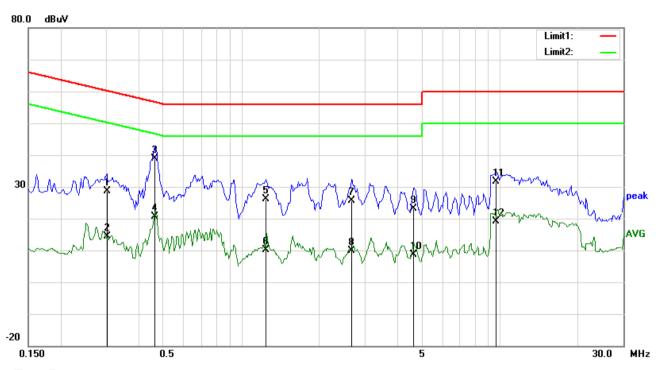
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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Test Mode : USB Mode



#### Test Data

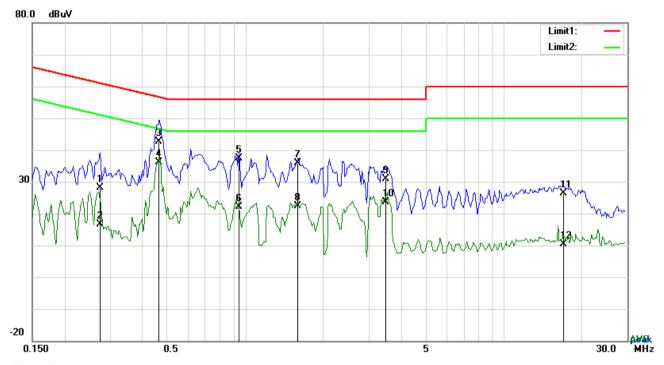
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.3021	18.62	QP	10.02	28.64	60.18	-31.54
2	L1	0.3021	4.33	AVG	10.02	14.35	50.18	-35.83
3	L1	0.4620	28.96	QP	10.02	38.98	56.66	-17.68
4	L1	0.4620	10.73	AVG	10.02	20.75	46.66	-25.91
5	L1	1.2459	16.04	QP	10.03	26.07	56.00	-29.93
6	L1	1.2459	0.02	AVG	10.03	10.05	46.00	-35.95
7	L1	2.6694	15.66	QP	10.05	25.71	56.00	-30.29
8	L1	2.6694	-0.16	AVG	10.05	9.89	46.00	-36.11
9	L1	4.6380	12.99	QP	10.07	23.06	56.00	-32.94
10	L1	4.6380	-1.33	AVG	10.07	8.74	46.00	-37.26
11	L1	9.7002	21.61	QP	10.14	31.75	60.00	-28.25
12	L1	9.7002	9.00	AVG	10.14	19.14	50.00	-30.86



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Mode: USB Mode
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#### Test Data

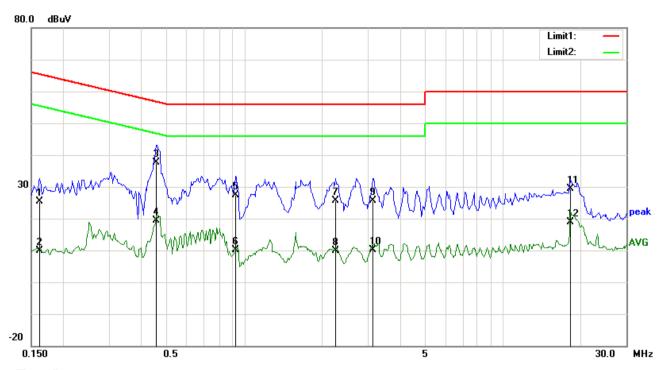
## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2748	18.14	QP	10.02	28.16	60.97	-32.81
2	N	0.2748	6.59	AVG	10.02	16.61	50.97	-34.36
3	N	0.4659	32.55	QP	10.02	42.57	56.59	-14.02
4	N	0.4659	26.18	AVG	10.02	36.20	46.59	-10.39
5	N	0.9456	27.45	QP	10.03	37.48	56.00	-18.52
6	N	0.9456	12.04	AVG	10.03	22.07	46.00	-23.93
7	N	1.6008	25.91	QP	10.04	35.95	56.00	-20.05
8	N	1.6008	12.26	AVG	10.04	22.30	46.00	-23.70
9	N	3.4992	20.77	QP	10.05	30.82	56.00	-25.18
10	N	3.4992	13.60	AVG	10.05	23.65	46.00	-22.35
11	N	17.0868	16.14	QP	10.23	26.37	60.00	-33.63
12	N	17.0868	0.11	AVG	10.23	10.34	50.00	-39.66



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Test Mode : USB Mode



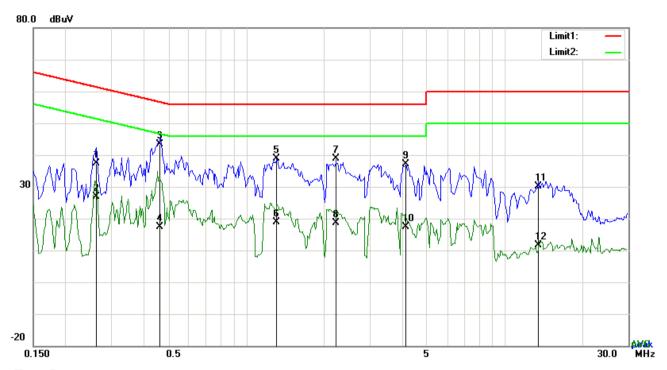
Test Data

## Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	15.45	QP	10.03	25.48	65.38	-39.90
2	L1	0.1617	-0.03	AVG	10.03	10.00	55.38	-45.38
3	L1	0.4581	27.57	QP	10.03	37.60	56.73	-19.13
4	L1	0.4581	9.41	AVG	10.03	19.44	46.73	-27.29
5	L1	0.9261	17.27	QP	10.03	27.30	56.00	-28.70
6	L1	0.9261	0.02	AVG	10.03	10.05	46.00	-35.95
7	L1	2.2521	15.62	QP	10.05	25.67	56.00	-30.33
8	L1	2.2521	-0.21	AVG	10.05	9.84	46.00	-36.16
9	L1	3.1560	15.61	QP	10.06	25.67	56.00	-30.33
10	L1	3.1560	0.12	AVG	10.06	10.18	46.00	-35.82
11	L1	18.2373	19.05	QP	10.27	29.32	60.00	-30.68
12	L1	18.2373	8.70	AVG	10.27	18.97	50.00	-31.03



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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	0.2631	27.46	QP	10.02	37.48	61.33	-23.85
2	N	0.2631	16.89	AVG	10.02	26.91	51.33	-24.42
3	N	0.4659	33.35	QP	10.02	43.37	56.59	-13.22
4	N	0.4659	7.33	AVG	10.02	17.35	46.59	-29.24
5	N	1.3161	28.76	QP	10.03	38.79	56.00	-17.21
6	N	1.3161	8.84	AVG	10.03	18.87	46.00	-27.13
7	N	2.2248	28.76	QP	10.04	38.80	56.00	-17.20
8	N	2.2248	8.67	AVG	10.04	18.71	46.00	-27.29
9	Ν	4.1544	26.99	QP	10.06	37.05	56.00	-18.95
10	Ν	4.1544	7.33	AVG	10.06	17.39	46.00	-28.61
11	N	13.5144	20.01	QP	10.18	30.19	60.00	-29.81
12	N	13.5144	1.45	AVG	10.18	11.63	50.00	-38.37



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## 6.2 Radiated Emissions

Temperature	23°C		
Relative Humidity	54%		
Atmospheric Pressure	1014mbar		
Test date :	November 11, 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 spethe level of any unwanted emission the fundamental emission. The tight edges  Frequency range (MHz)  30 - 88  88 - 216	p-frequency devices shall not ecified in the following table and s shall not exceed the level of	<b>\</b>				
		216 - 960 Above 960	200 500					
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver							
Procedure	<ol> <li>The EUT was switched on and allowed to warm up to its normal operating contained.</li> <li>The test was carried out at the selected frequency points obtained from the Experimental contained from the Experimental characterization. Maximization of the emissions, was carried out by rotating the changing the antenna polarization, and adjusting the antenna height in the following manner:         <ul> <li>Vertical or horizontal polarization (whichever gave the higher emission)</li> </ul> </li> </ol>							



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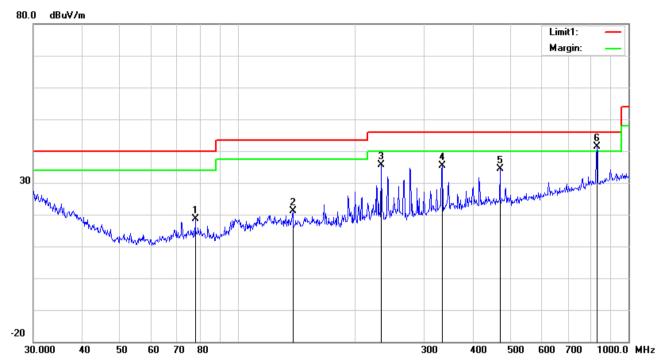
		ove	r a full rotation of the EUT) was chosen.
	k	o. The	EUT was then rotated to the direction that gave the maximum
		emis	ssion.
		c. Fina	ally, the antenna height was adjusted to the height that gave the maximum
		emi	ssion.
	3. 7	Γhe resolution	on bandwidth and video bandwidth of test receiver/spectrum 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)	□ <sub>N/A</sub>



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Test Mode : USB Mode

#### Below 1GHz



#### Test Data

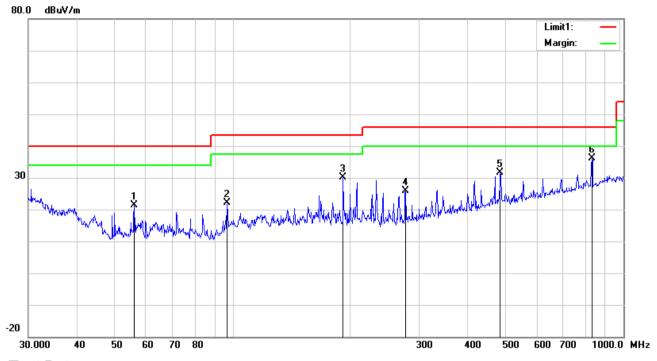
## Horizontal Polarity Plot @3m

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	Τ	77.8654	32.27	peak	7.64	22.41	1.01	18.51	40.00	-21.49	100	143
2	Ι	138.3873	29.46	peak	12.70	22.41	1.26	21.01	43.50	-22.49	100	163
3	Н	232.5318	44.68	peak	11.64	22.32	1.64	35.64	46.00	-10.36	100	290
4	Н	333.6867	41.23	peak	14.31	22.20	1.96	35.30	46.00	-10.70	100	150
5	Н	468.8762	37.03	peak	17.08	21.87	2.24	34.48	46.00	-11.52	100	329
6	Н	830.4002	37.76	peak	21.73	21.07	2.91	41.33	46.00	-4.67	100	35



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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	>	56.0007	35.17	peak	7.74	22.40	0.77	21.28	40.00	-18.72	100	92
2	٧	96.7749	33.66	peak	9.63	22.32	1.04	22.01	43.50	-21.49	100	41
3	٧	191.7450	39.24	peak	11.65	22.33	1.54	30.10	43.50	-13.40	100	112
4	V	277.0935	33.83	peak	12.59	22.29	1.75	25.88	46.00	-20.12	100	158
5	V	483.9094	33.73	peak	17.38	21.84	2.33	31.60	46.00	-14.40	100	201
6	٧	830.4002	32.56	peak	21.73	21.07	2.91	36.13	46.00	-9.87	100	107



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#### Above 1GHz

Frequency	Read_level		Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
2136	63.38	269	100	V	-15.71	47.67	74	-26.33	PK
4868.7	52.79	119	100	V	-6.53	46.26	74	-27.74	PK
5547.5	52.41	249	100	V	-4.71	47.7	74	-26.3	PK
1837.6	61.62	41	100	Н	-17.65	43.97	74	-30.03	PK
2631.5	61.23	231	100	Н	-14.25	46.98	74	-27.02	PK
3484.8	55.07	344	100	Н	-13.27	41.8	74	-32.2	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.



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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 Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	<b>(</b>
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	<b>\</b>
LISN	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	ESL6	100262	09/15/2017	09/14/2018	<
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<b>\</b>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<b>\</b>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	>
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	>



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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** 



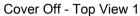
EUT - Right View





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





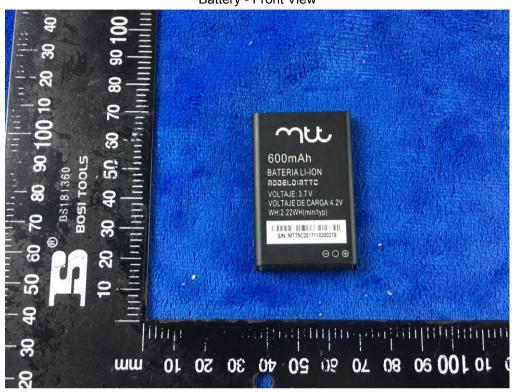
Cover Off - Top View 2



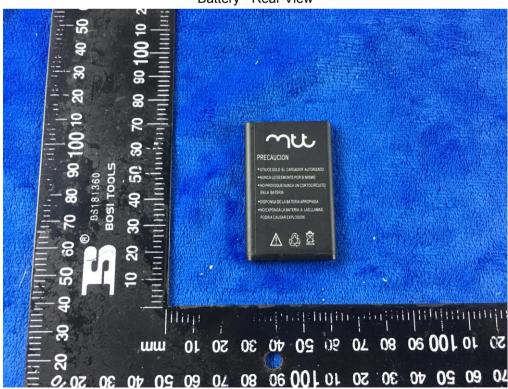


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Battery - Front View



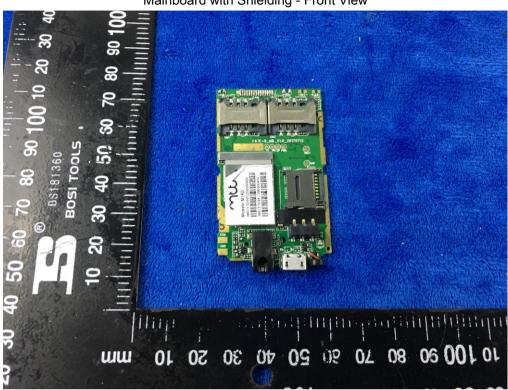
Battery - Rear View



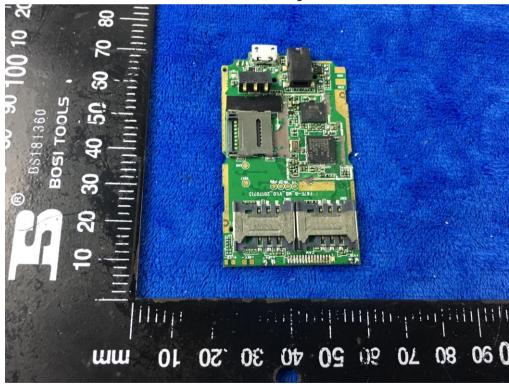


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Mainboard with Shielding - Front View



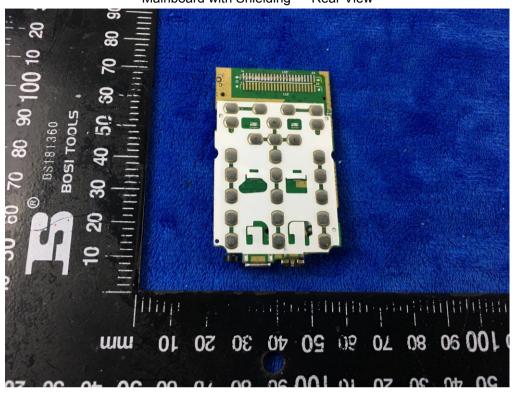
Mainboard without Shielding - Front View



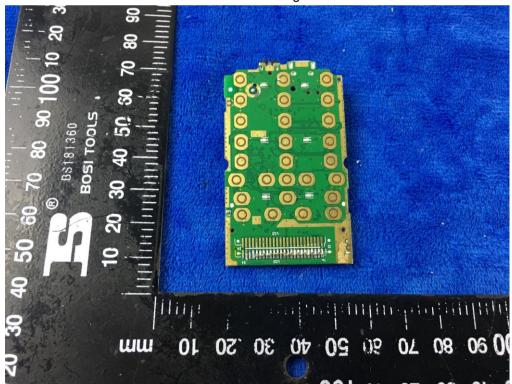


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Mainboard with Shielding - Rear View



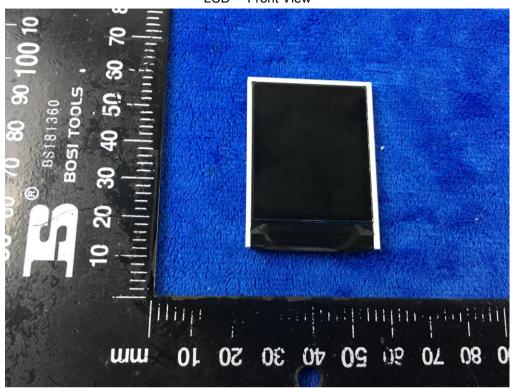
Mainboard without Shielding - Rear View





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LCD - Front View



LCD - Rear View





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#### GSM/PCS Antenna View



BT - Antenna View





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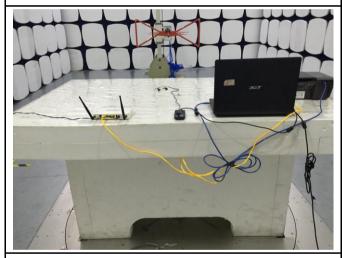
## Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



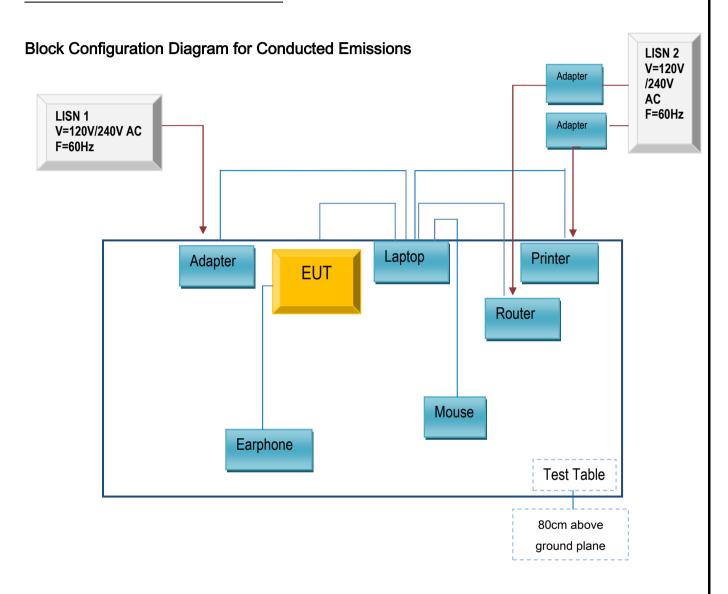
Radiated Emissions Test Setup Above 1GHz



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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

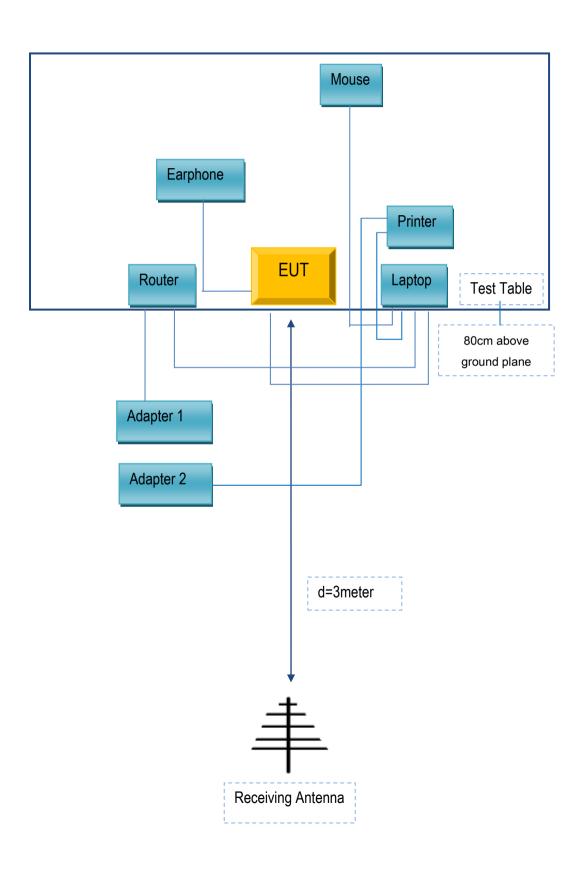
#### Annex C.ii. TEST SET UP BLOCK





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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
MOVILTELCO TRADE, S.L	Earphone	M14D	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 D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



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## Annex E. DECLARATION OF SIMILARITY

N/A