

Variant FCC Test Report

APPLICANT : Cellon Communications Technology Co., Ltd.
EQUIPMENT : GSM850/1900 mobile phone
BRAND NAME : Claro, Slider, ENSPIRE
MARKETING NAME : C1026,C1026CA,C1026EN,C1026CL
MODEL NAME : C1026
FCC ID : T38C1026
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

This is a variant report which is only valid together with the original test report. We, SPORTON INTERNATIONAL (KUNSAHN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD213102	Rev. 01	Initial issue of report	Feb. 10, 2012
FD2N1401	Rev. 01	This is a variant report. The difference between previous and current is changing the FCC ID: T38PCD1026 to T38C1026, brand name, model name and adding the market name. Since the test result is not affected by the changes, all test cases were performed on original report which can be referred to SPORTON Report Number FD213102 as Appendix A.	Nov. 16, 2012

1. General Description

1.1. Applicant

Cellon Communications Technology Co., Ltd.

11f, Skyworth C Building, Gaoxin S.Ave.1., Hi-Tech Industrial Park, Nanshan.Shenzhen

1.2. Manufacturer

Cellon Communications Technology Co., Ltd.

11f, Skyworth C Building, Gaoxin S.Ave.1., Hi-Tech Industrial Park, Nanshan.Shenzhen

1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	GSM850/1900 mobile phone
Brand Name	Claro, Slider, ENSPIRE
Marketing Name	C1026,C1026CA,C1026EN,C1026CL
Model Name	C1026
FCC ID	T38C1026
EUT supports Radios application	GSM
HW Version	V1.0
SW Version	CL114_1.0_CLARO
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Tx Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz
Rx Frequency Range	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz
Antenna Type	Fixed Internal Antenna
Type of Modulation	GMSK



Appendix A. Original Report

Please refer to Sporton report number FD213102 as below.

FCC Test Report

APPLICANT : Cellon Communications Technology Co., Ltd
EQUIPMENT : GSM850/1900 mobile phone
BRAND NAME : PCD
MODEL NAME : A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA
FCC ID : T38PCD1026
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jan. 31, 2012 and completely tested on Feb. 10, 2012. We, SPORTON INTERNATIONAL (KUNSAHN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD213102	Rev. 01	Initial issue of report	Feb. 10, 2012

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.2	AC Conducted Emission	< 15.107 limits	PASS	Under limit 6.74 dB at 0.15 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or	PASS	Under limit 8.28 dB at 594.00 MHz

1. General Description

1.1. Applicant

Cellon Communications Technology Co., Ltd

11f, Skyworth C Buuilding, Gaoxin S.Ave.1., Hi-Tech Industrial Park, Nanshan.Shenzhen

1.2. Manufacturer

Cellon Communications Technology Co., Ltd

11f, Skyworth C Buuilding, Gaoxin S.Ave.1., Hi-Tech Industrial Park, Nanshan.Shenzhen

1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	GSM850/1900 mobile phone
Brand Name	PCD
Model Name	A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA
FCC ID	T38PCD1026
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
Antenna Type	Fixed Internal Antenna
HW Version	V1.0
SW Version	CL114_1.0_CLARO
Type of Modulation	GMSK
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.
Test Site Location	No. 101, Complex Building C, Guanglong Village, Xili Town, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755-8637-9589 FAX: +86-755-8637-9595
Test Site No.	Sporton Site No. : CO01-SZ

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Test Site No.	Sporton Site No. 03CH01-KS

1.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC RSS-Gen Issue 3

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This report is intention of applying for FCC 15B certification only.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
3.	Signal Generator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
4.	PC	R&S	MT380	FCC DoC	N/A	Unshielded, 1.8 m
5.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
6.	Monitor	DELL	1707FPt	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
7.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
8.	(USB) Keyboard	DELL	L100	FCC DoC	Shielded, 1.8 m with Core	N/A
9.	(USB) Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
10.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
11.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
12.	Earphone	Eimuse	E-500MV	FCC DoC	Shielded, 2.2 m	N/A
13.	Notebook	IBM	1706	FCC DoC	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Operating Mode (EUT with earphone)	Note 1	☒	Note 1
2.	Charging Mode (EUT with adapter)	☒	☒	Note 1
3.	Data application transferred Mode (EUT with PC or notebook)	☒	☒	☒

Abbreviations:

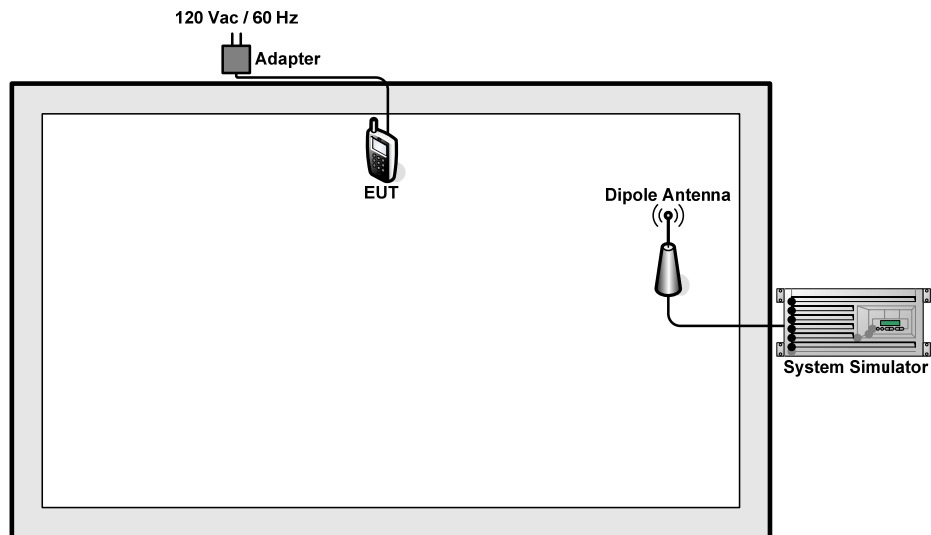
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

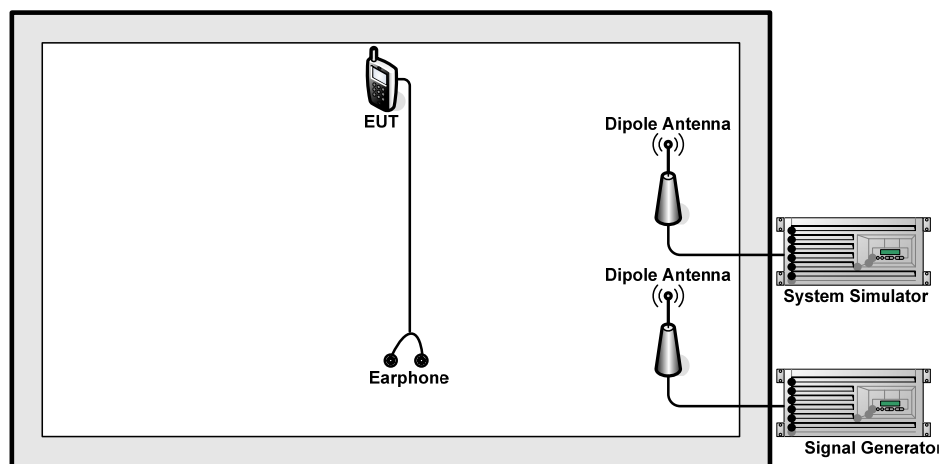
Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	2/3	Mode 1 : GSM 850 Idle + Adapter Mode 2 : GSM 1900 Idle + Adapter Mode 3 : USB Cable (Link with Notebook)
Radiated Emissions < 1GHz	1/2/3	Mode 1 : GSM 850 Idle + Earphone + FM Rx Mode 2 : GSM 1900 Idle + Adapter Mode 3 : USB Cable (Link with PC)
Radiated Emissions ≥ 1GHz	3	Mode 1 : USB Cable (Link with PC)
Remark: 1. The worst case of AC Conducted Emission is mode 2; only the test data of this mode was reported. 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported. 3. Link with PC or Notebook means data application transferred mode between DUT and PC or Notebook.		

2.2. Connection Diagram of Test System

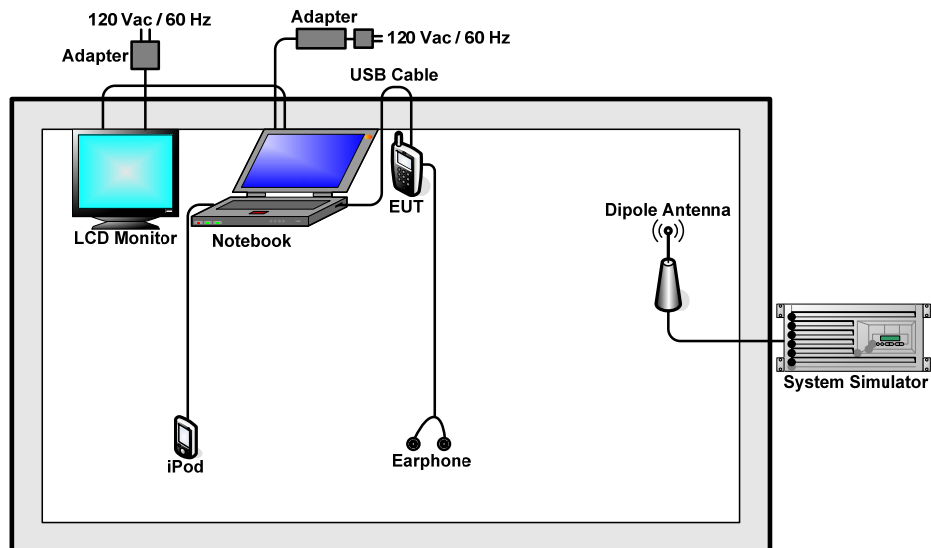
<EUT with Adapter Mode>



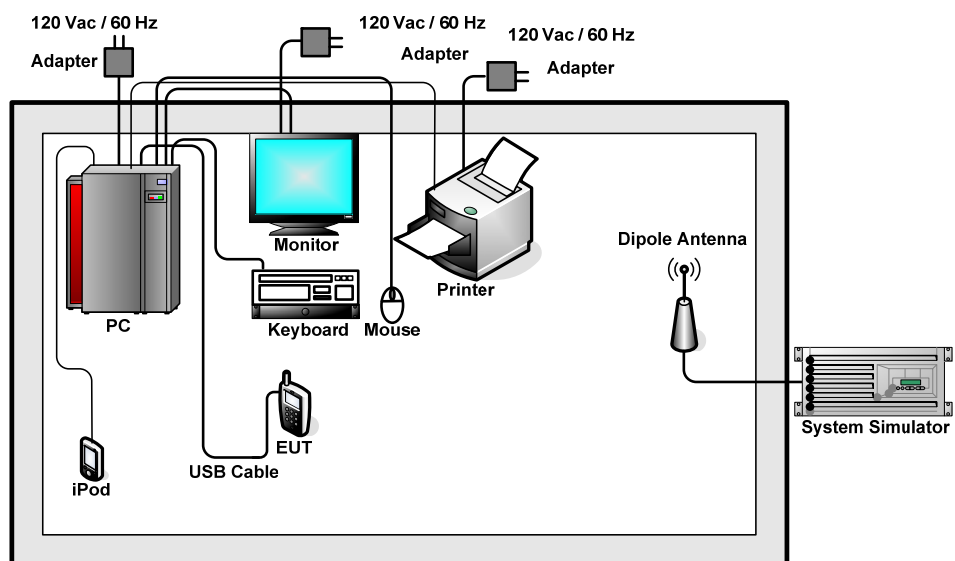
<EUT with Earphone Mode>



<EUT with USB Cable (Link with Notebook) Mode>



<EUT with USB Cable (Link with PC) Mode>



2.3. Test Software

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the following programs installed in the EUT were programmed during the test.

1. Execute the program, "Winthrax", installed in notebook or PC for active sync files transfer with EUT via USB cable / iPod.
2. Turn on FM function to keep EUT receiving signals continuously in FM Rx mode.
3. the EUT receive signals from base station continuously.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment 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.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

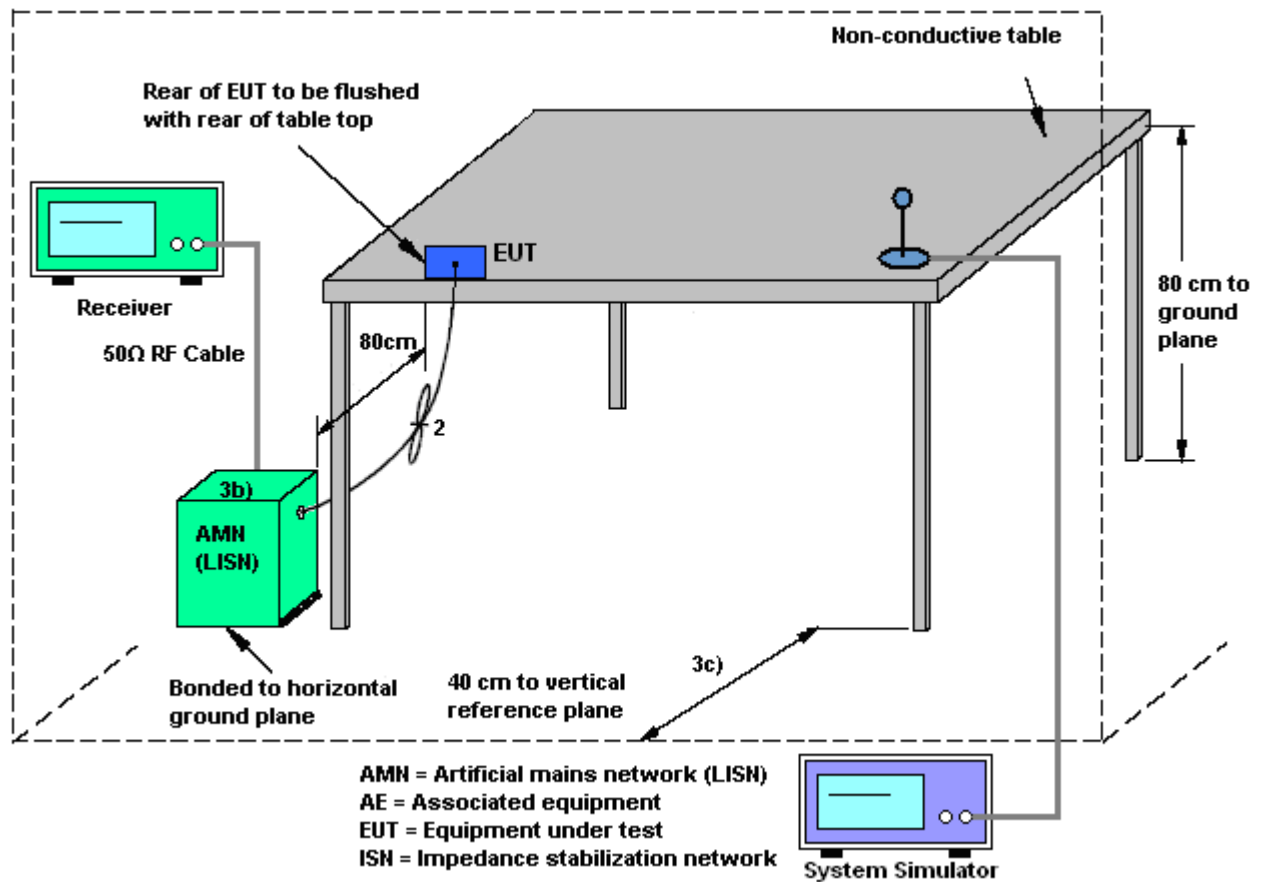
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

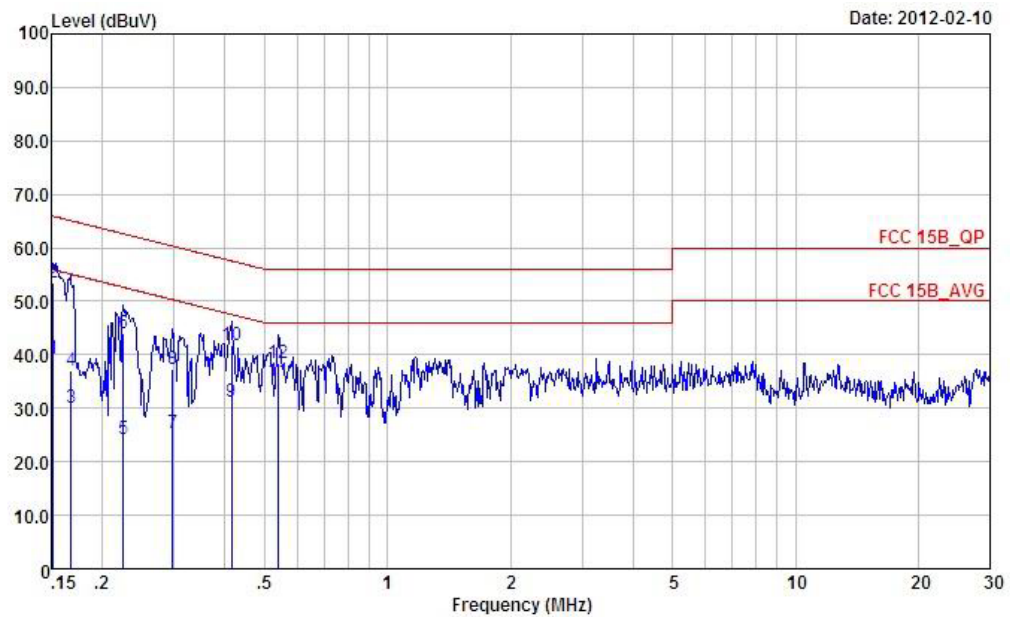
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. The EUT link with PC, connect PC to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	22~23℃
Test Engineer :	King Liu	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM 1900 Idle + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition : FCC 15B_QP LISN_L_2000601 LINE
 Project : (FD)213102
 Mode : Mode2

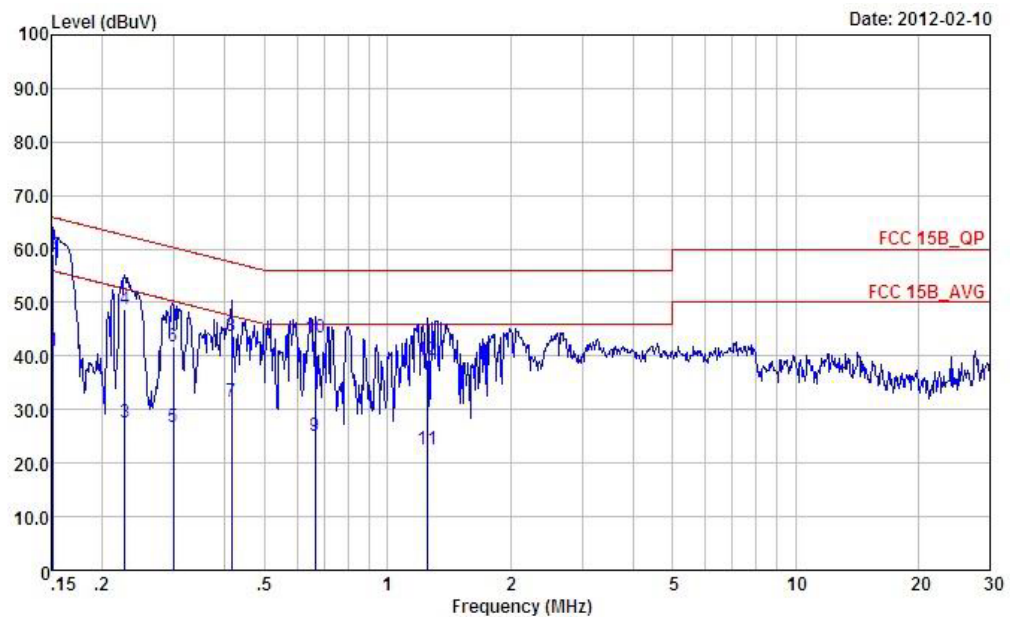
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	39.18	-16.73	55.91	29.10	0.03	10.05	Average
2	0.15	53.38	-12.53	65.91	43.30	0.03	10.05	QP
3	0.17	30.08	-25.00	55.08	20.00	0.03	10.05	Average
4	0.17	37.08	-28.00	65.08	27.00	0.03	10.05	QP
5	0.23	24.28	-28.33	52.61	14.20	0.02	10.06	Average
6	0.23	43.88	-18.73	62.61	33.80	0.02	10.06	QP
7	0.30	25.49	-24.83	50.32	15.41	0.02	10.06	Average
8	0.30	37.29	-23.03	60.32	27.21	0.02	10.06	QP
9	0.41	31.30	-16.25	47.55	21.20	0.02	10.08	Average
10	0.41	41.70	-15.85	57.55	31.60	0.02	10.08	QP
11	0.54	35.01	-10.99	46.00	24.90	0.02	10.09	Average
12	0.54	38.51	-17.49	56.00	28.40	0.02	10.09	QP



FCC Test Report

Report No. : FD213102

Test Mode :	Mode 2	Temperature :	22~23℃
Test Engineer :	King Liu	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM 1900 Idle + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition : FCC 15B_QP LISN_N_2000601 NEUTRAL
Project : (FD)213102
Mode : Mode2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	40.87	-15.04	55.91	30.80	0.02	10.05	Average
2	0.15	59.17	-6.74	65.91	49.10	0.02	10.05	QP
3	0.23	27.68	-24.89	52.57	17.60	0.02	10.06	Average
4	0.23	48.68	-13.89	62.57	38.60	0.02	10.06	QP
5	0.30	26.68	-23.60	50.28	16.60	0.02	10.06	Average
6	0.30	41.88	-18.40	60.28	31.80	0.02	10.06	QP
7	0.41	31.39	-16.16	47.55	21.29	0.02	10.08	Average
8	0.41	43.69	-13.86	57.55	33.59	0.02	10.08	QP
9	0.66	25.02	-20.98	46.00	14.90	0.02	10.10	Average
10	0.66	43.32	-12.68	56.00	33.20	0.02	10.10	QP
11	1.26	22.45	-23.55	46.00	12.31	0.02	10.12	Average
12	1.26	39.25	-16.75	56.00	29.11	0.02	10.12	QP

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

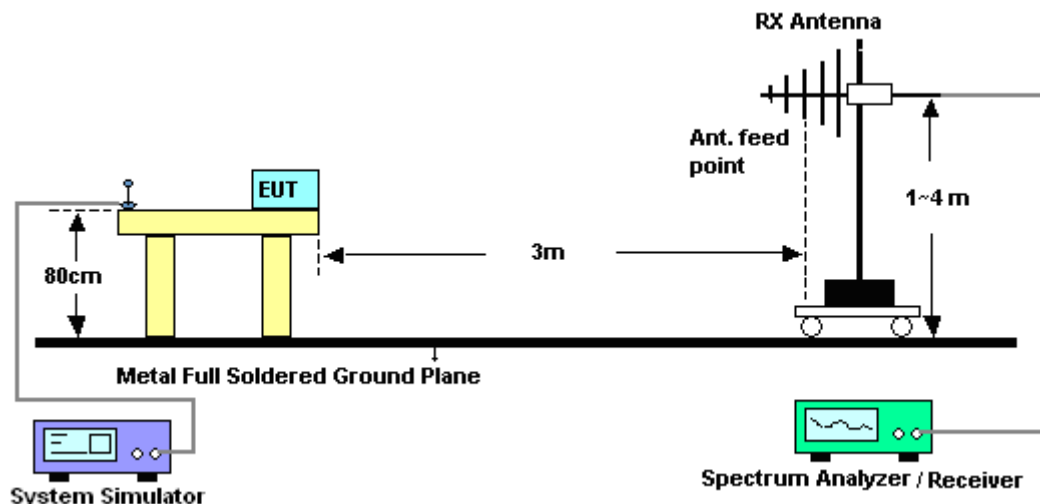
3.2.2. Measuring Instruments

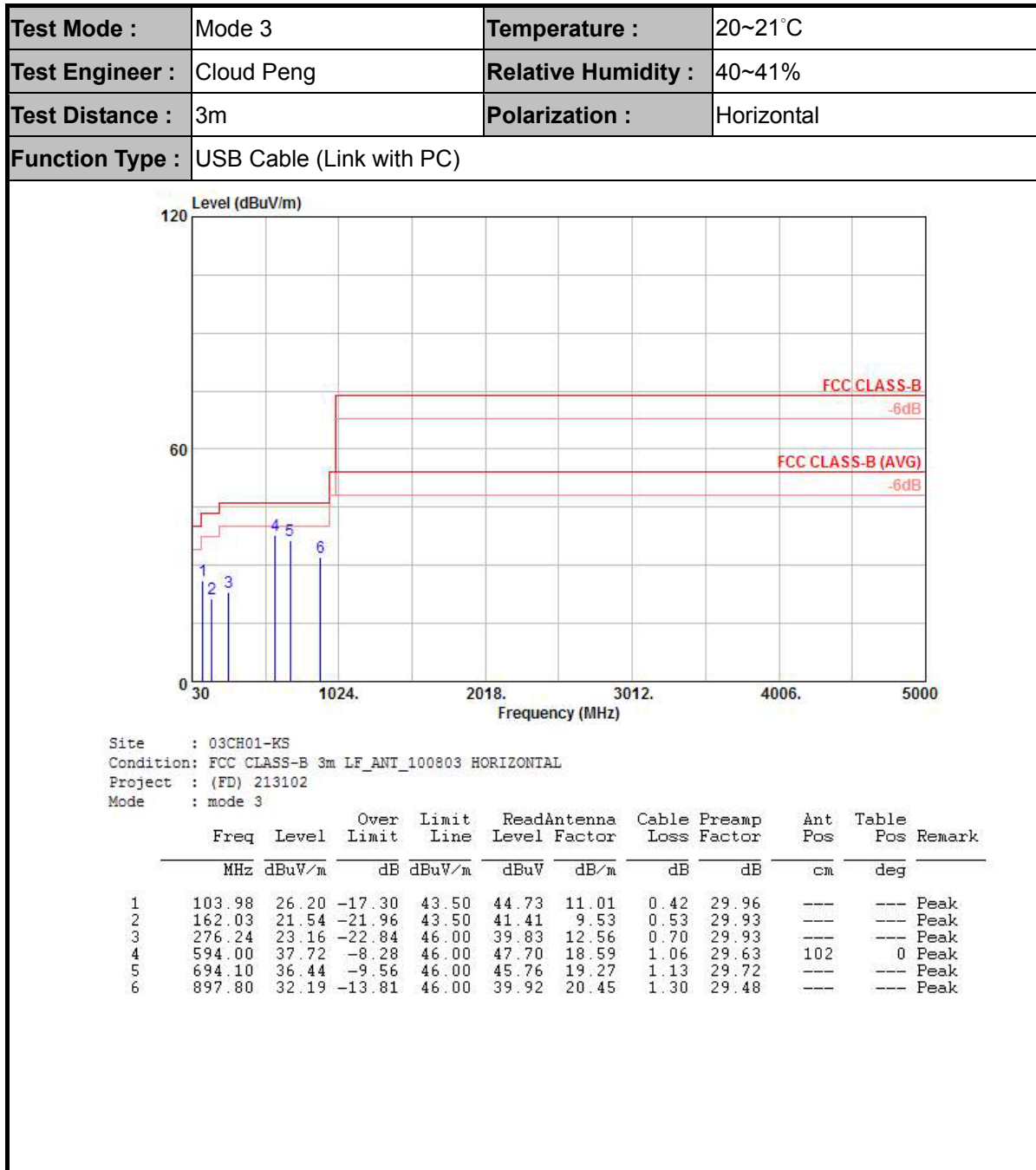
See list of measuring instruments of this test report.

3.2.3. Test Procedures

1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission



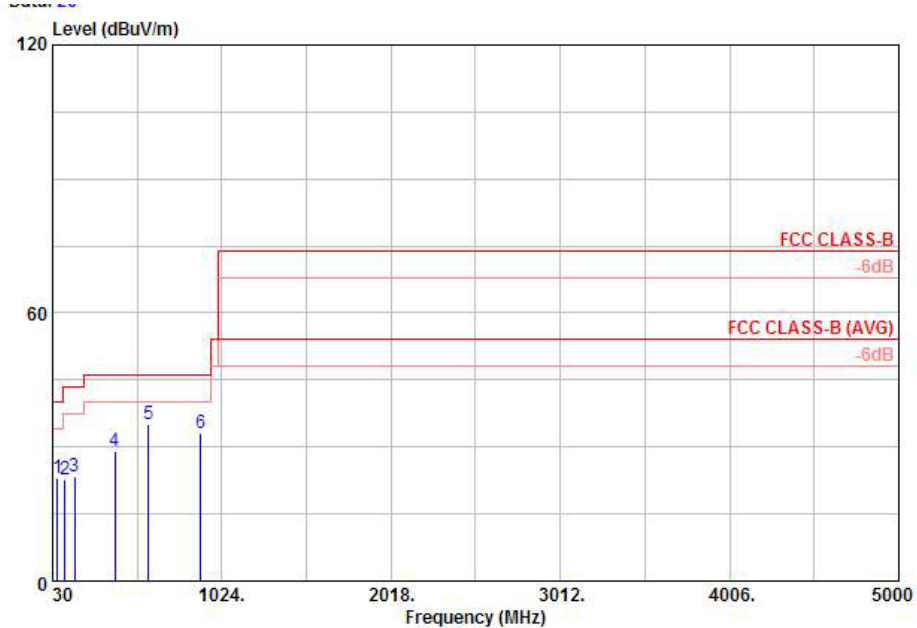
3.2.5. Test Result of Radiated Emission




FCC Test Report

Report No. : FD213102

Test Mode :	Mode 3	Temperature :	20~21°C
Test Engineer :	Cloud Peng	Relative Humidity :	40~41%
Test Distance :	3m	Polarization :	Vertical
Function Type :	USB Cable (Link with PC)		



Site : 03CH01-KS
Condition: FCC CLASS-B 3m LF_ANT_100803 VERTICAL
Project : (FD) 213102
Mode : mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	59.97	23.02	-16.98	40.00	47.55	5.30	0.31	30.14	---	Peak
2	103.71	22.80	-20.70	43.50	41.33	11.01	0.42	29.96	---	Peak
3	159.87	23.26	-20.24	43.50	43.07	9.60	0.53	29.94	---	Peak
4	398.00	28.96	-17.04	46.00	41.99	15.96	0.84	29.83	---	Peak
5	594.00	35.01	-10.99	46.00	44.99	18.59	1.06	29.63	176	318 Peak
6	897.80	33.08	-12.92	46.00	40.81	20.45	1.30	29.48	---	Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI TEST Receiver	R&S	ECSI	100724	9K-3GHz	Mar. 08, 2011	Feb. 10, 2012	Mar. 07, 2012	Conduction (CO01-SZ)
AC LISN	ETS-LINDGR EN	3816/2SH	00103912	0.1MHz~108MHz	Feb. 28, 2011	Feb. 10, 2012	Feb. 27, 2012	Conduction (CO01-SZ)
AC LISN	ETS-LINDGR EN	3816/2SH	00103892	0.1MHz~108MHz	Feb. 28, 2011	Feb. 10, 2012	Feb. 27, 2012	Conduction (CO01-SZ)
AVR	Throma	61602	616020000891N/A	/	Oct. 12, 2011	Feb. 10, 2012	Oct. 11, 2012	Conduction (CO01-SZ)
AC Filter	ETS-LINDGR EN	LRE-2030/P EN 256260	00093783	/	N/A	Feb. 10, 2012	N/A	Conduction (CO01-SZ)
AC Filter	ETS-LINDGR EN	LRE-2030/P EN 256260	00097973	/	N/A	Feb. 10, 2012	N/A	Conduction (CO01-SZ)
System Simulator	Agilent	E5515C	MY50264168	GSM/WCDMA /CDMA2000	Mar. 14, 2011	Feb. 10, 2012	Mar. 13, 2012	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Feb. 09, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Feb. 09, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Feb. 09, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/00	9 kHz~30 MHz	Jul. 28, 2011	Feb. 09, 2012	Jul. 27, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Feb. 09, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Feb. 09, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Feb. 09, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1GHz~18GHz	Nov. 07, 2011	Feb. 09, 2012	Nov. 06, 2012	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10GHz~40GHz	Dec. 30, 2011	Feb. 09, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15GHz~40GHz	Oct. 11, 2011	Feb. 09, 2012	Oct. 10, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Feb. 09, 2012	Dec. 29, 2012	Radiation (03CH01-KS)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty $U_c(y)$	1.13		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	± 0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	± 1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	± 0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site Imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP213102 as below.

1. External Photograph of EUT

Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, P
CD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN,
CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL,
PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133
PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



**2. Photograph of Accessory**

Brand Name: PCD / Model Name: A1026, PCD1133EC, P
CD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN,
CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL,
PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133
PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA

List of Accessory:

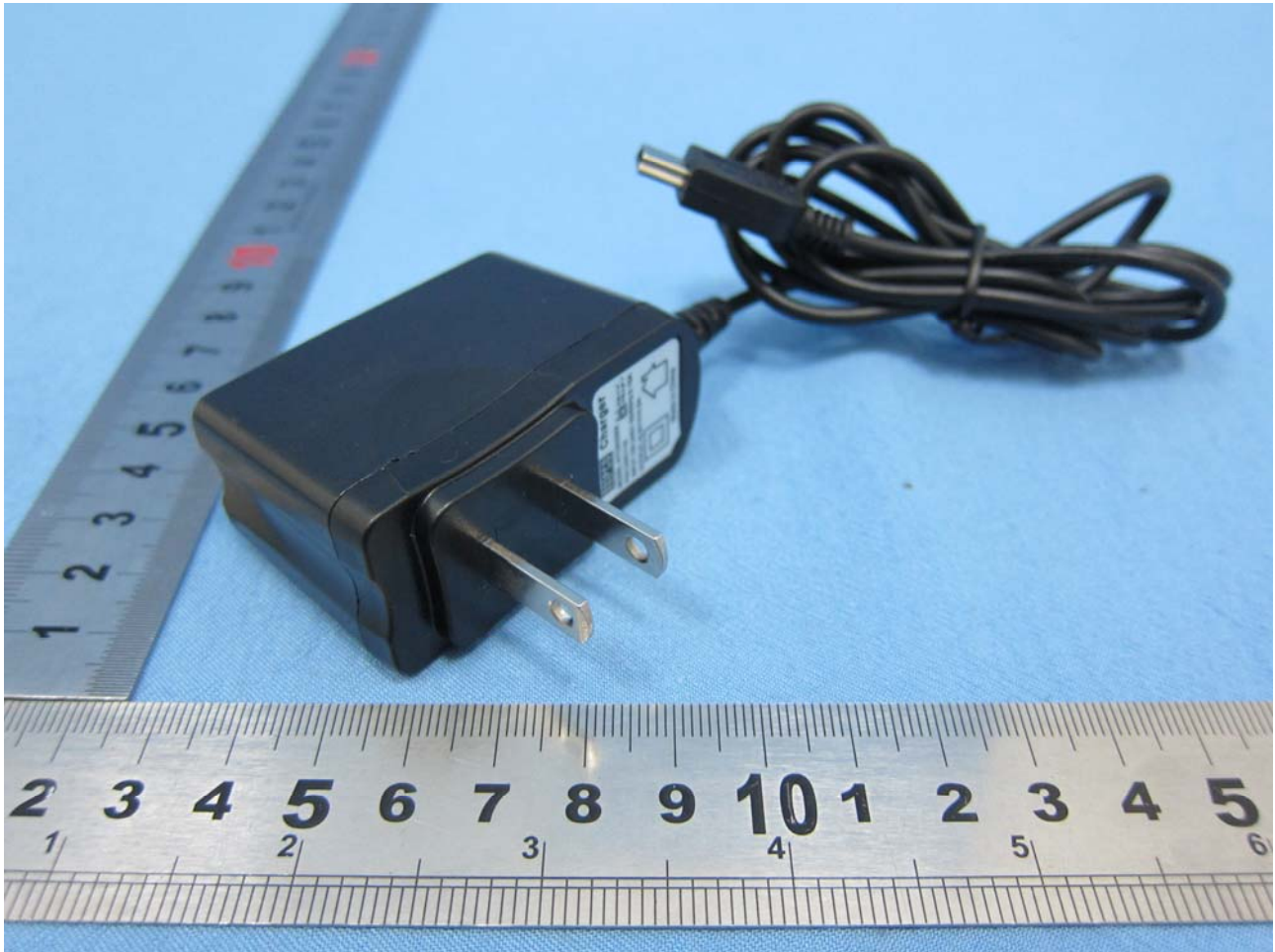
Specification of Accessory		
AC Adapter	Brand Name	PCD
	Model Name	ATC002005
Battery	Brand Name	PCD
	Model Name	BTR1031
Earphone	Type	100cm non-shielded without core

Remark: For accessories equipped with this EUT, please refer to the following photos.

Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA

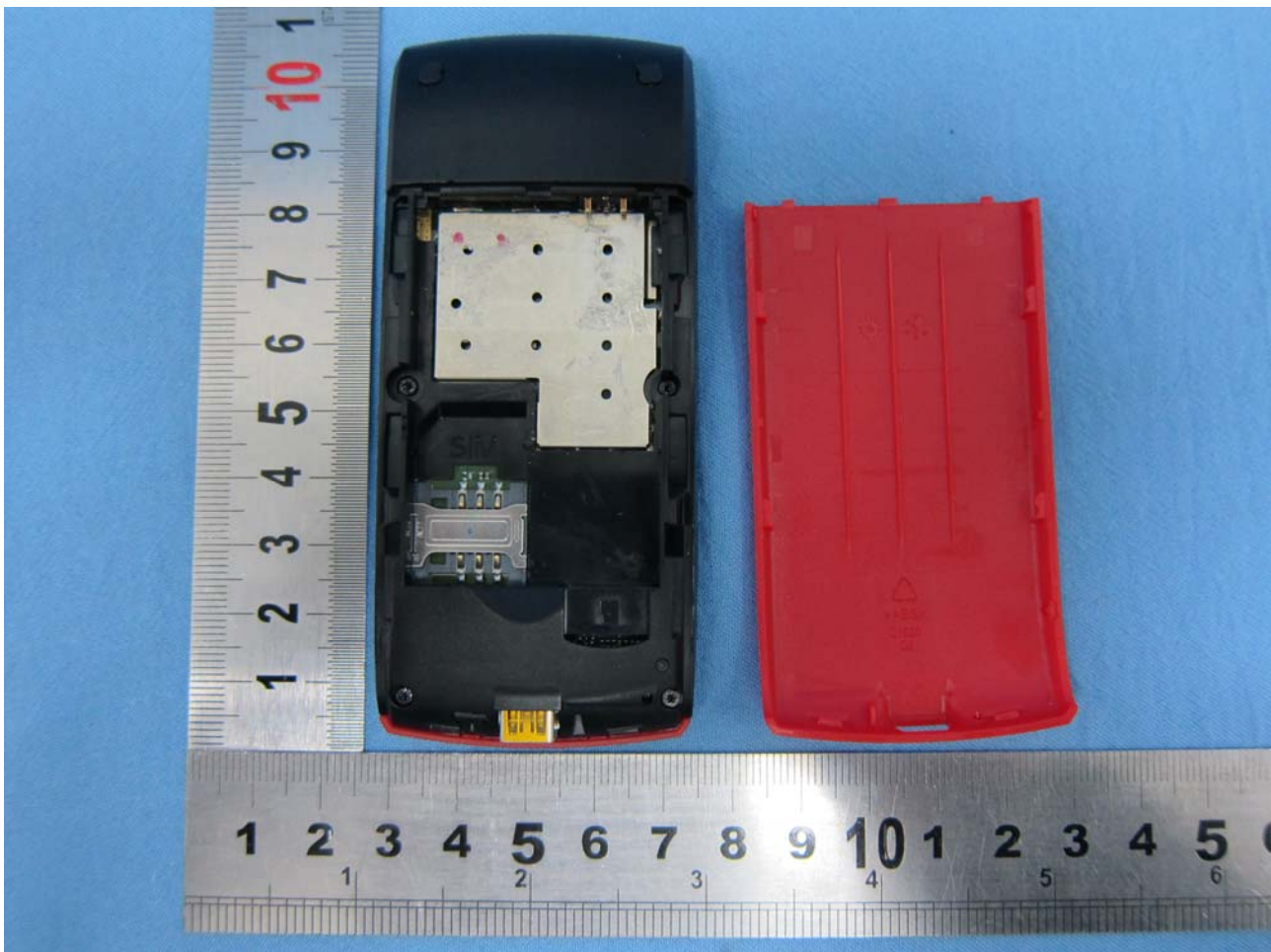


Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA

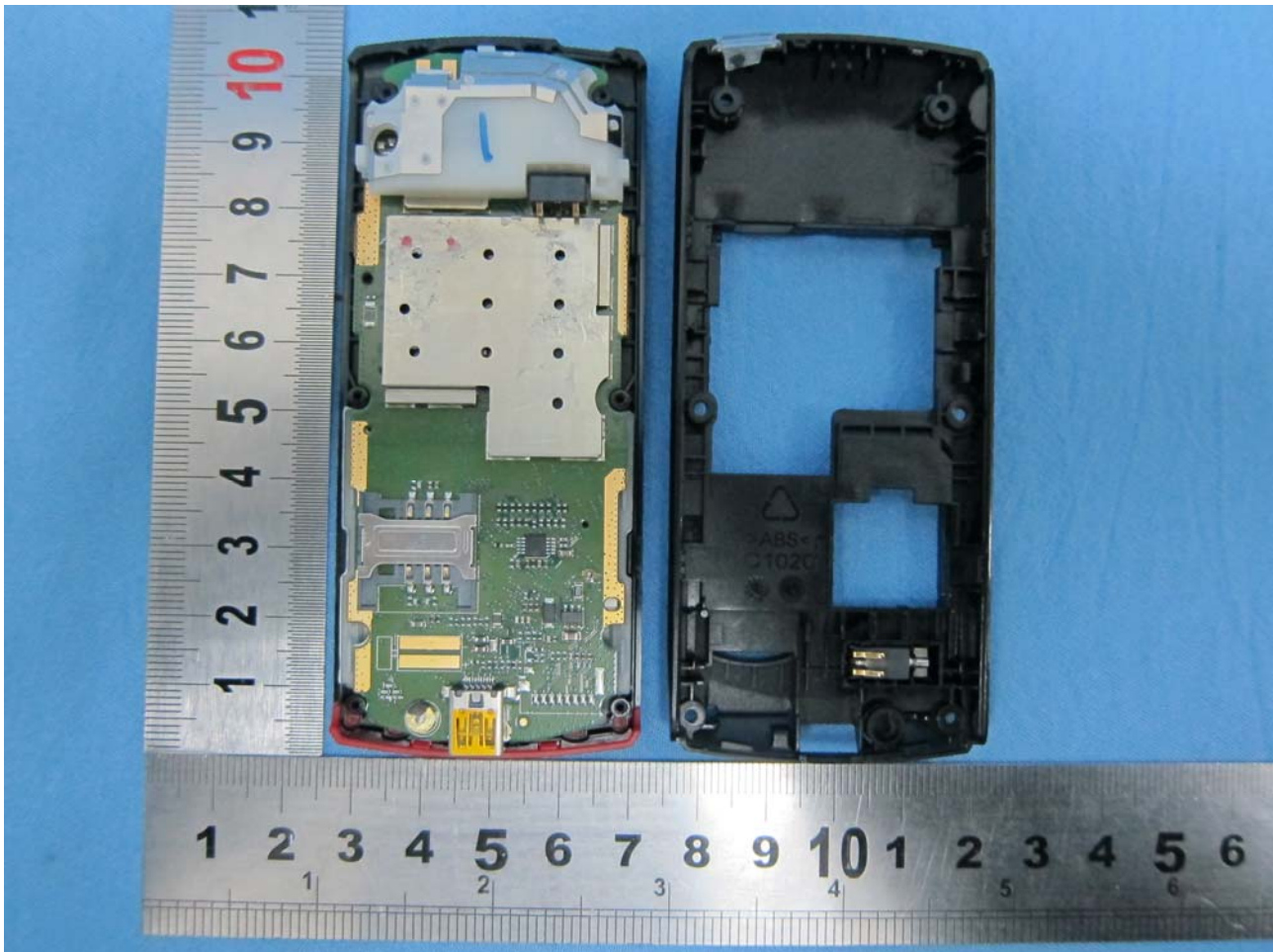


3. Internal Photograph of EUT

Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



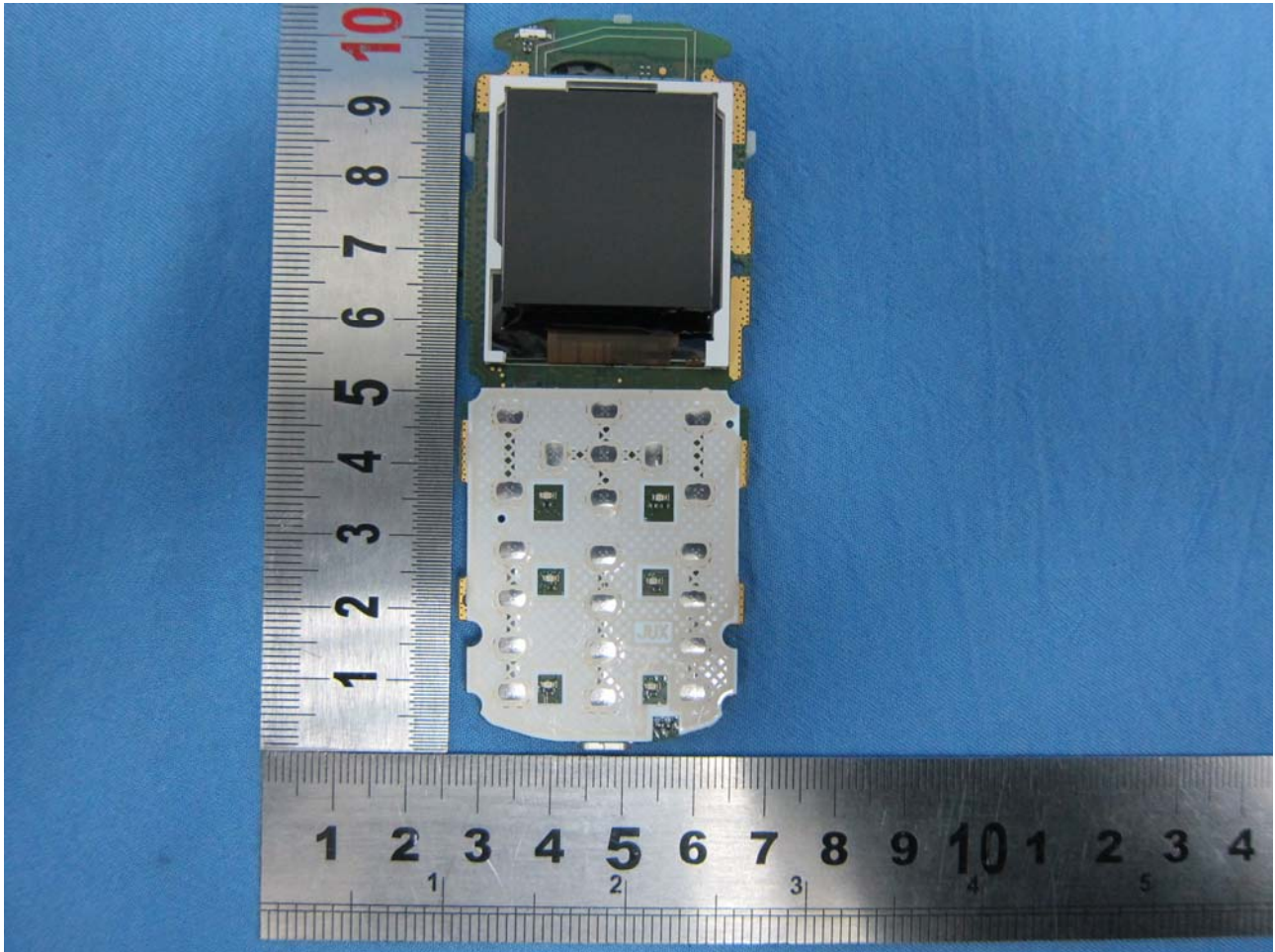
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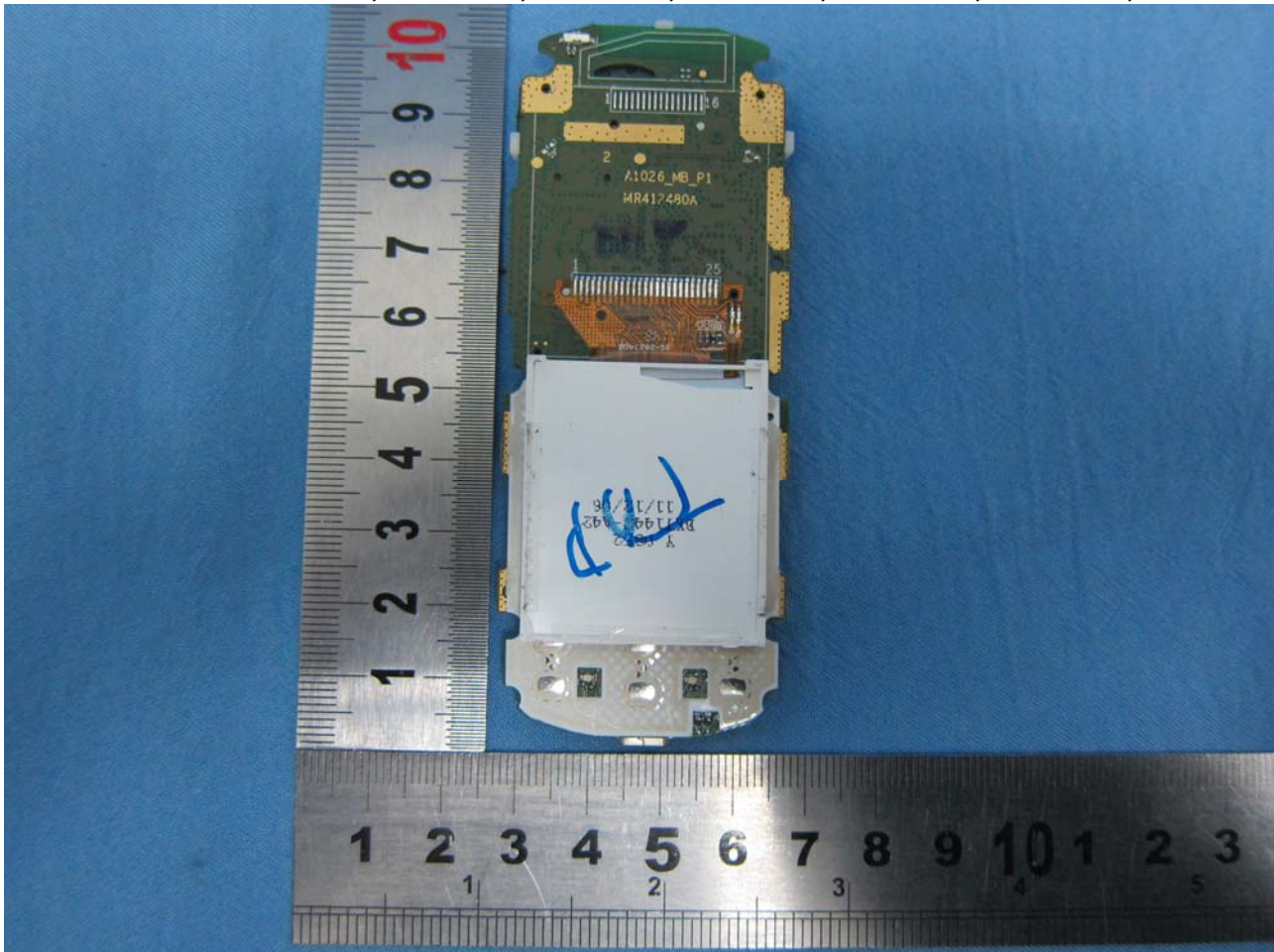
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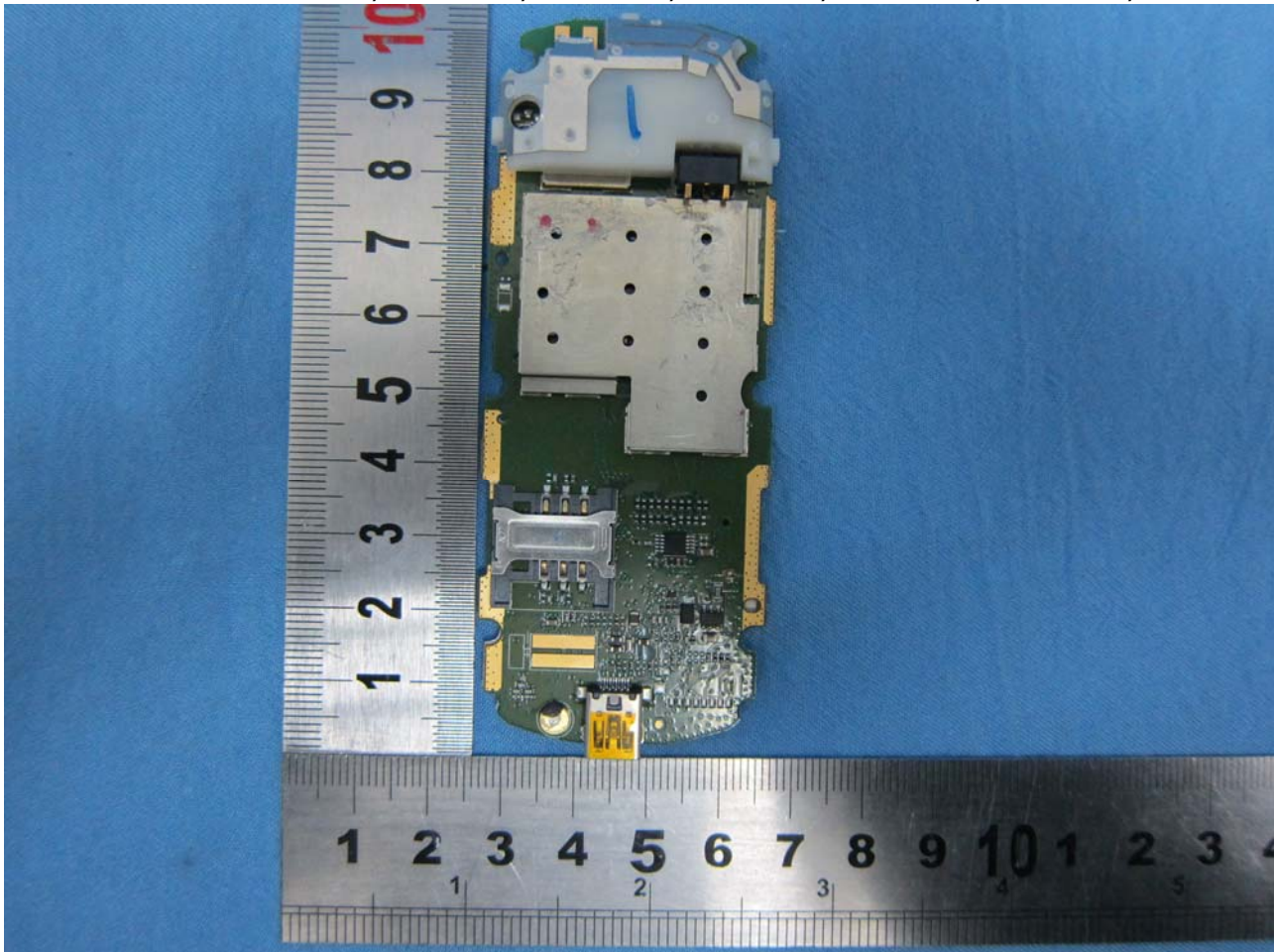
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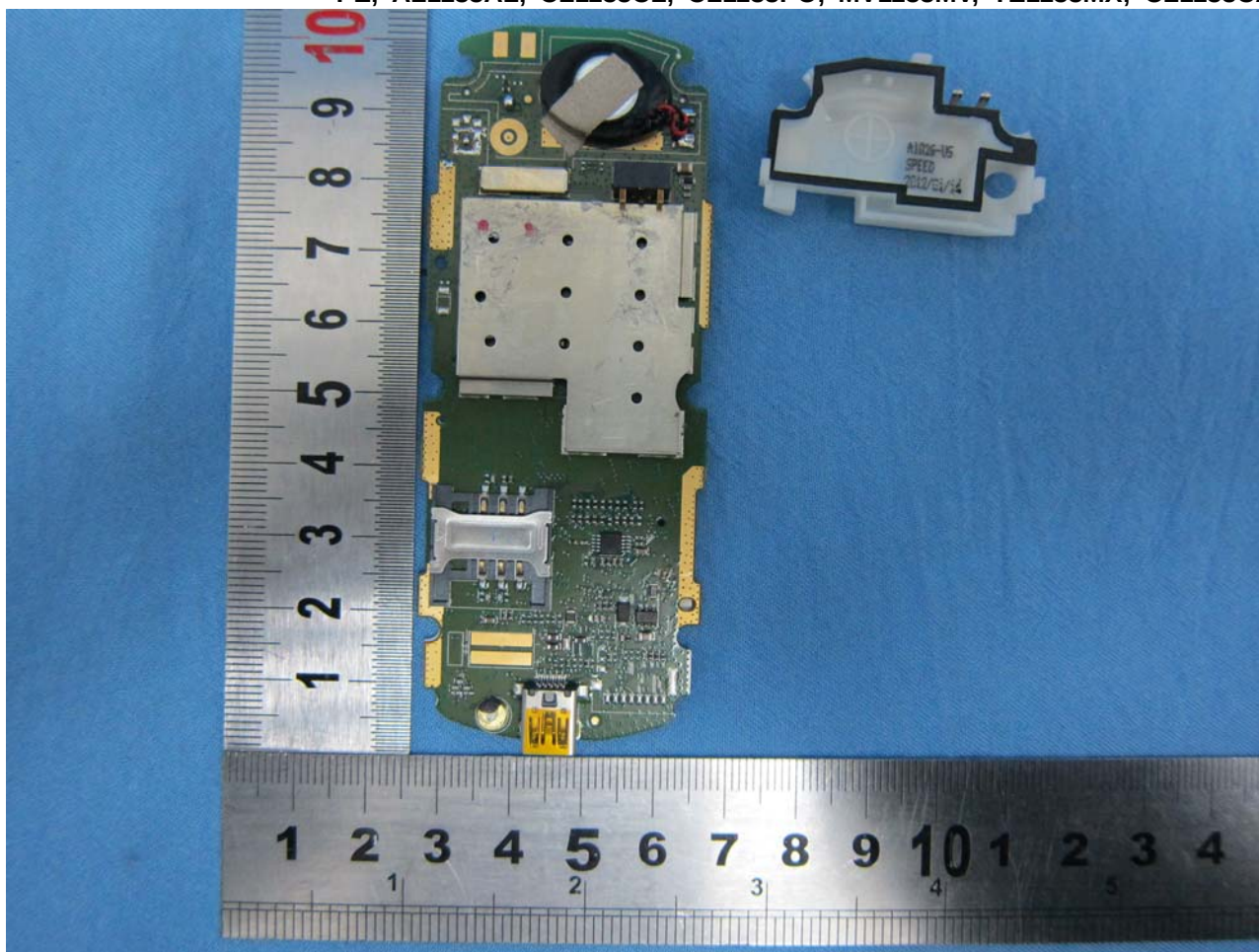
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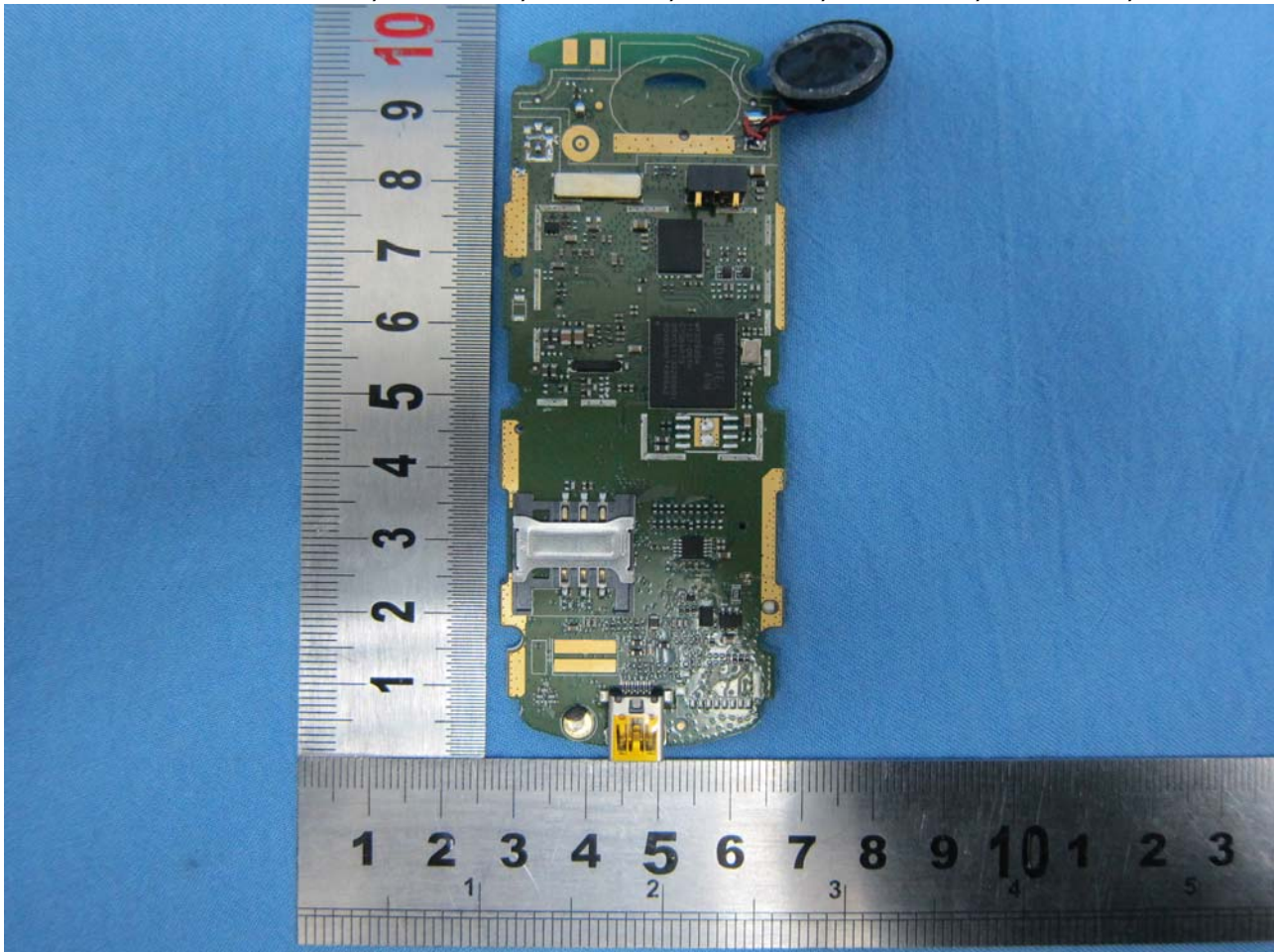
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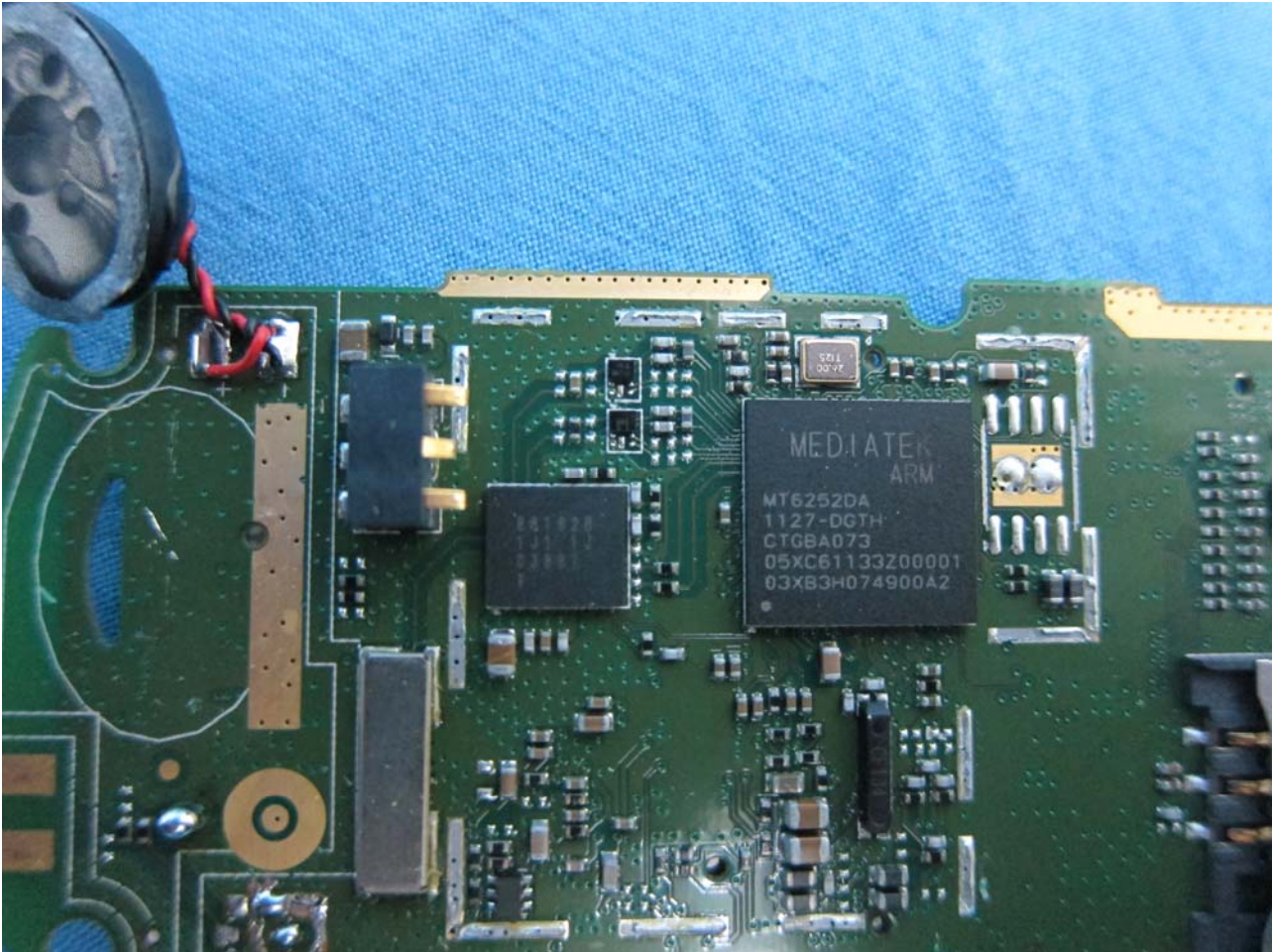
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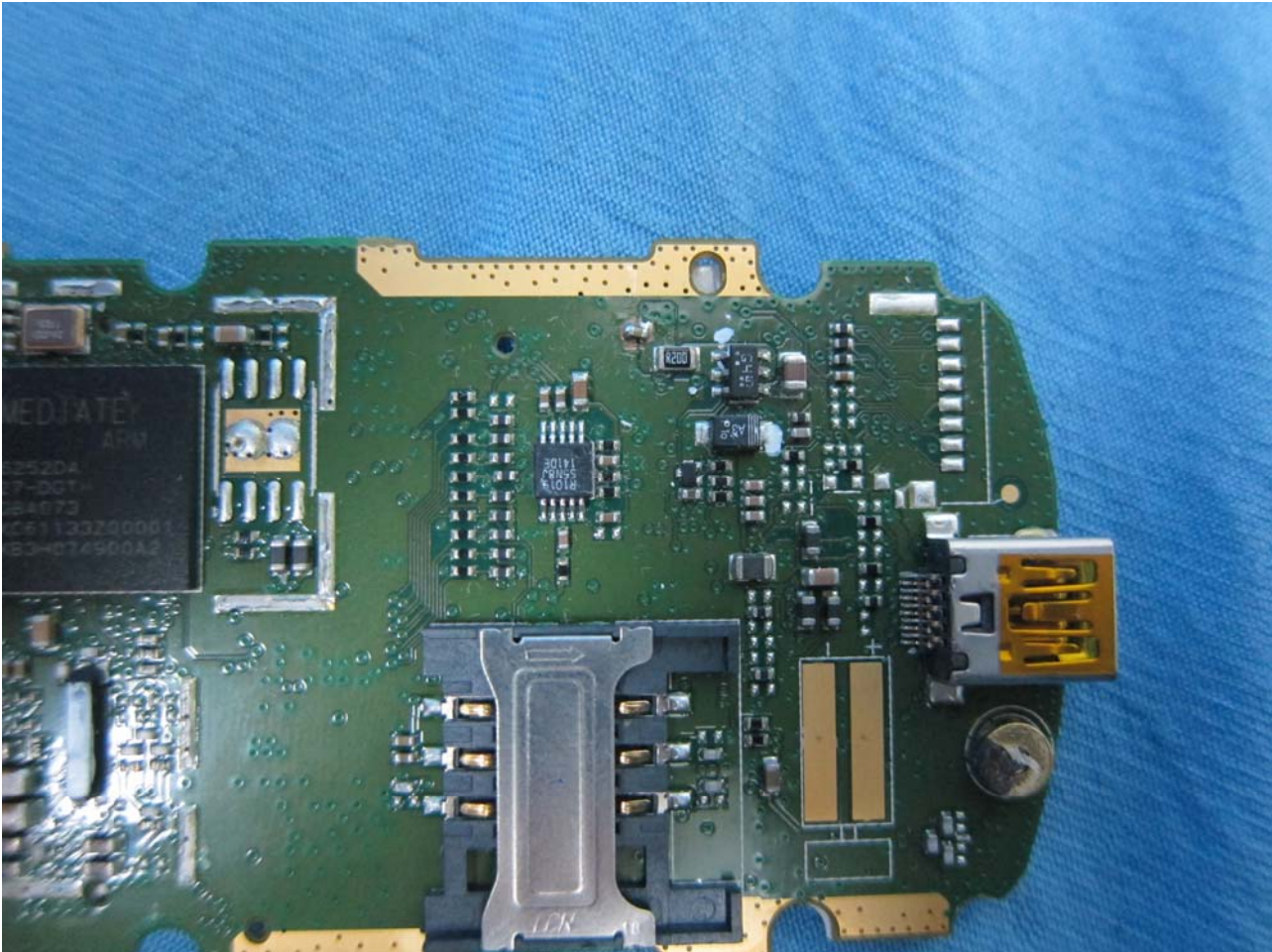
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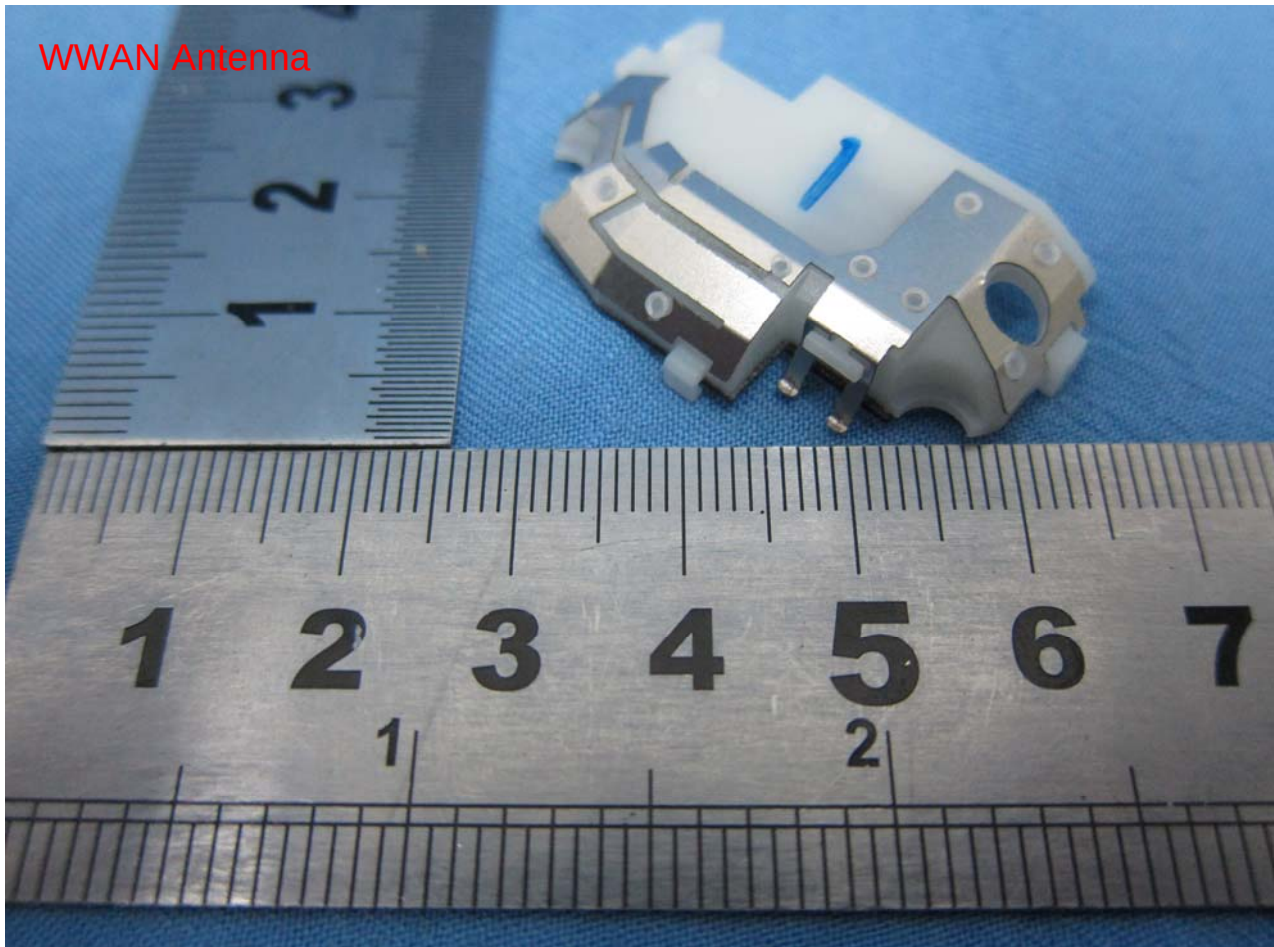
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Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133 PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA



Brand Name: PCD / Model Name: A1026, PCD1133EC, PCD1133ECR, CL1133EC, CL1133ECR, PCD1133, CL1133EN, CL1133, TE1133, PCD1133PE, PCD1133AL, PCD1133, CL, PCD1133PO, PCD1133MV, PCD1133OM, PCD1133MX, TE1133PE, AL1133AL, CL1133CL, CL1133PO, MV1133MV, TE1133MX; CL1133CA

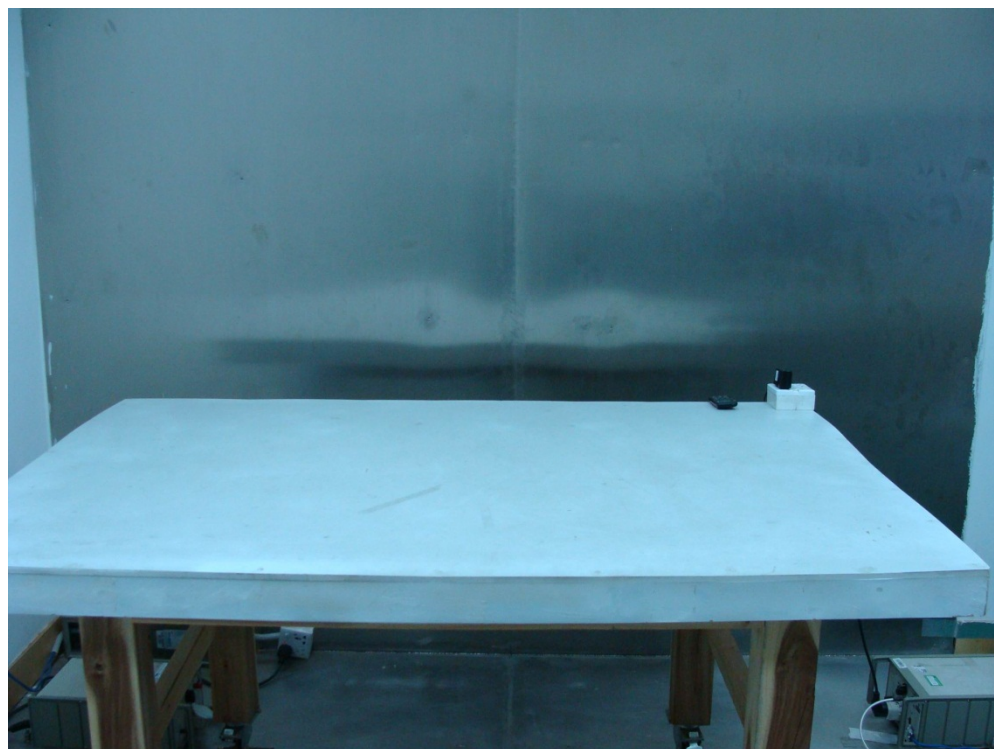


Appendix B. Setup Photographs

<Conducted Emission>

Mode 2

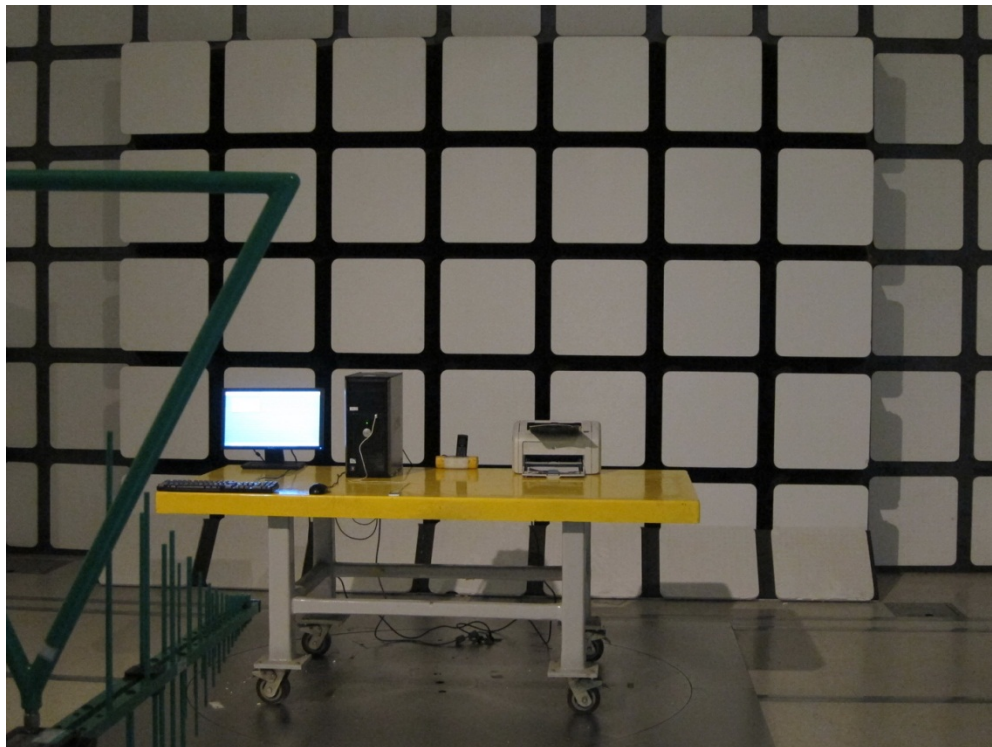
Front View



<Radiated Emission>

Mode 3

LF



HF

