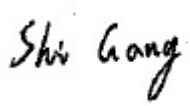
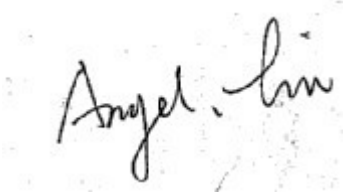
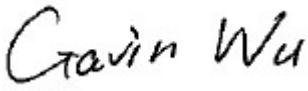
TEST REPORT

Report No.:	**EM201100418-7**	**Application No.:**	**ZJ00010987**
Client:	Mobile Devices Ingenierie		
Address:	100 avenue de Stalingrad VILLEJUIF-France		
Sample Description:	MUNIC		
Model:	D4M 35MD02		
Test Location:	**EMC Laboratory of Guangzhou GRG Metrology and Test Technology Co., Ltd.**		
Test Specification:	**Section B of FCC Part 15:2010**		
Issue Date:	2011-12-09		
Test Result:	*Pass.*		

Tested By:	**Reviewed By:**	**Approved By:**
Shi Gang / Test Engineer	Angel Liu / Technical Support	Gavin Wu / Manager
 Date:2011-12-09	 Date:2011-12-09	 Date:2011-12-09

Other Aspects:

None

Abbreviations: *ok / P = passed; fail / F = failed; n.a. / N = not applicable*

The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.

DIRECTIONS OF TEST

1. **This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**

2. **The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**

3. **If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

TABLE OF CONTENTS

1. TEST RESULT SUMMARY

Section B of FCC Part 15: 2010			
Standard	**Item**	**Rule Section**	**Result**
Section B of FCC Part 15:2010	Conducted Disturbance	FCC 15.107	Note 1
	Radiated Electromagnetic Disturbance	FCC 15.109	PASS

Note 1: Equipment with DC (battery) power supply.

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Mobile Devices Ingenierie

Address: 100 avenue de Stalingrad VILLEJUIF-France

2.2 MANFACTURER

Name: Shenzhen Longhorn Technology Co., Ltd.

Address: Longhorn Hi-tech estate Gongyeyuan Rd. Dalang Street, Bao'an Shenzhen 518109

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: MUNIC

Model No.: D4M 35MD02

Adding Model /

Trade Name:

Power Supply: DC 5V, 2000mA MAX, 7.5W

Frequency Range Bluetooth: 2402MHz~2480MHz

GPRS: TX:824.2MHz ~ 848.8MHz;RX: 869.2MHz ~ 893.8MHz

TX:1850.2MHz ~ 1909.8MHz;RX: 1930.2MHz ~ 1989.8MHz

FM Transmitter: 88.1-107.9MHz

GPS: 1575.42MHz

Type of emission FHSS;GPRS;FM

Note: /

2.4 LOCAL SUPPORTIVE INSTRUMENTS

Cable Description	Length (M)	From/Port	To
DC Cable 1	1.5	DC Power supply	EUT
DC Cable 2	1.4	Power source	DC Power supply
Serial Cable	1.2	PC	EUT

Name of Equipment	Manufacturer	Model	Serial Number
PC	Lenovo	E46L	EB22867264

3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests and measurements refer to this report were performed by EMC Laboratory of Guangzhou GRG Metrology and Test Technology Co,. Ltd.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China

Telephone: +86-20-38699959, 38699960, 38699961

Fax : +86-20-38695185

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC Listed Lab No. 688188
China	CNAS NO.L0446
China	DILAC No.DL175
Canada	Registration No.:8355A-1

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		**Frequency**	**Uncertainty**
Radiated Emission	Horizontal	30MHz～1000MHz	4.2dB
	Vertical	30MHz～1000MHz	4.4dB
Conducted Emission		9kHz～30MHz	3.1 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.4 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Emission				
Biconical Log-periodic Antenna	ETS.LINDGREN	3142C	00075971	2012-07-31
Receiver	R&S	ESU40	100106	2012-09-26
3m Semi-anechoic chamber	ETS.LINDGREN	RFD-F/A-100	3730	2012-09-14
DC power supply	HuaiAn	B32-10R	437041	2012-07-12

NOTE: The calibration interval of the above test instruments is 12 months.

4. EMISSION TEST

4.1 RADIATED ELECTROMAGNETIC DISTURBANCE MEASUREMENT

4.1.1 LIMITS

Frequency (MHz)	Quasi-peak(dBμV/m)
30 ~ 88	40
88~216	43.5
216 ~ 960	46
Above 960	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

4.1.2 TEST PROCEDURE

Test Method:

ANSI C63.4:2003; FCC 15.109

Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

• Table-top equipment is placed on a non-conductive set-up table with height 0,8 m ± 0,01 m, ANSI C63.4:2003 specifies the method to determine the impact of the non-conductive set-up table on test results.

• Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

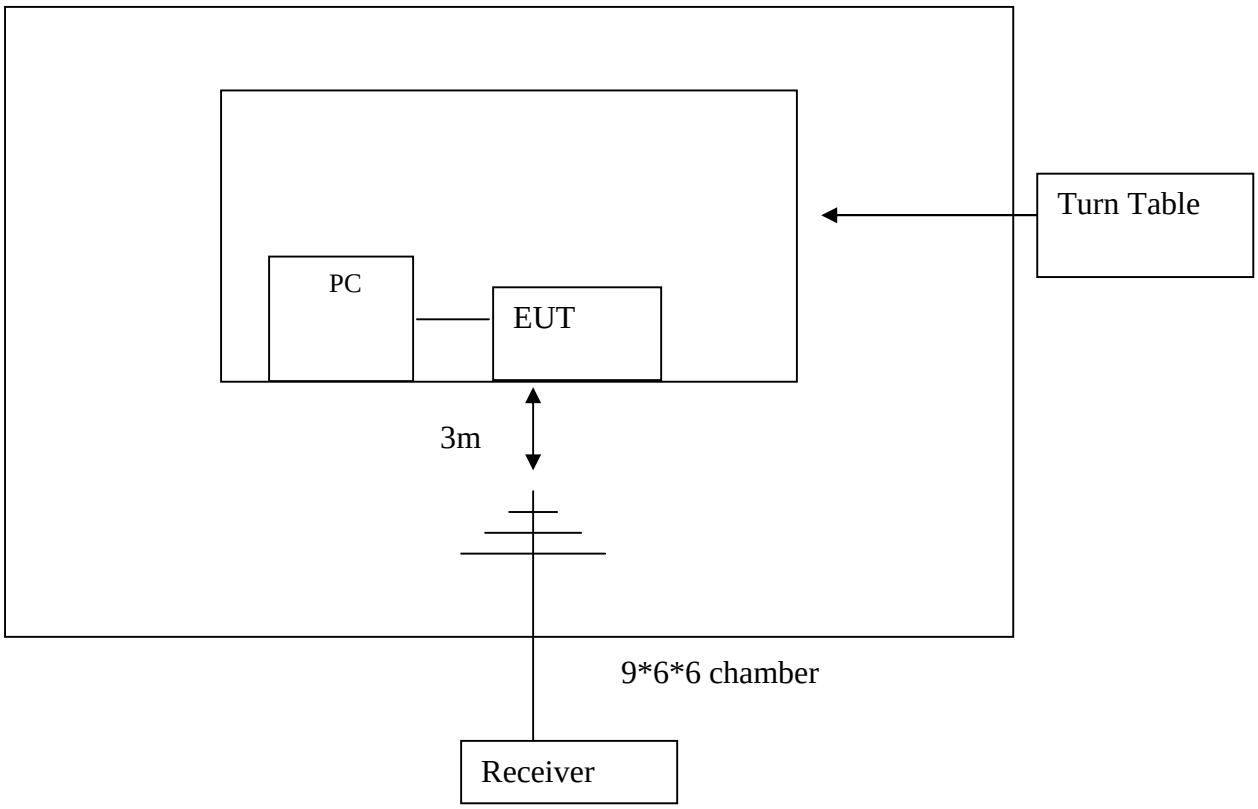
The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

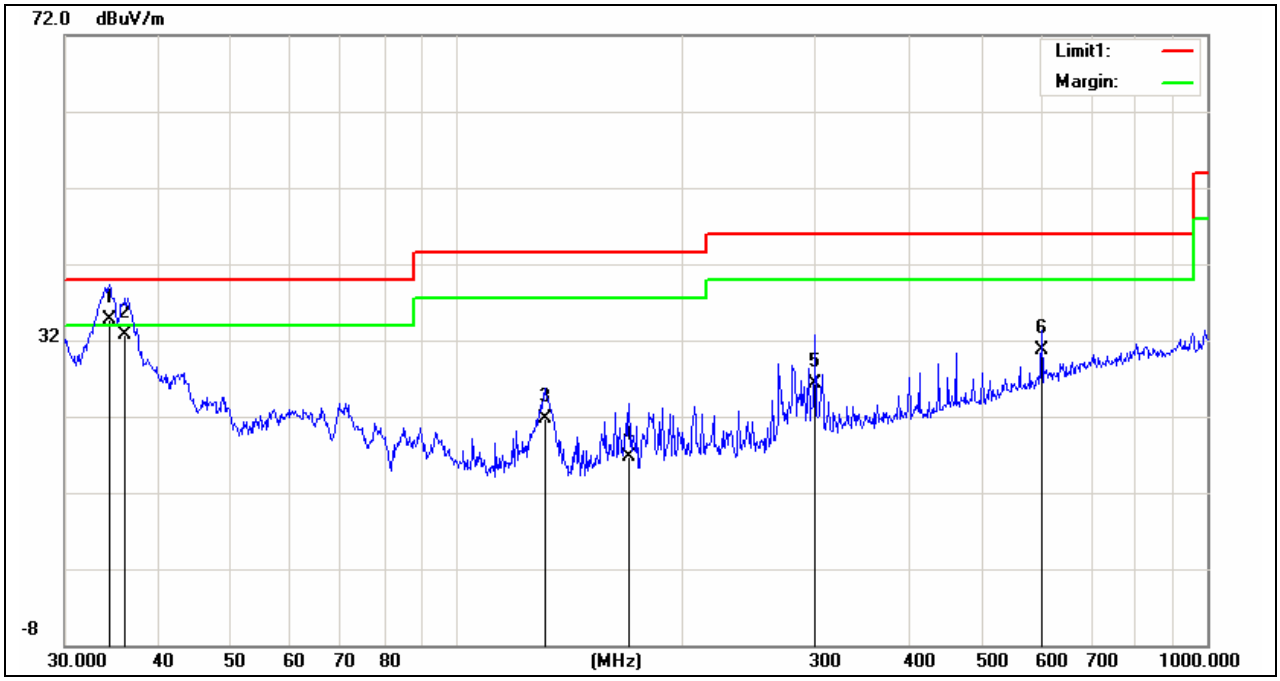
4.1.3 TEST SETUP

The EUT is connect to PC, open the EUT, Turn off the GPRS,FM,BT mode, the EUT is keep on standby mode. The test measured by the receiver or spectrum analyzer.



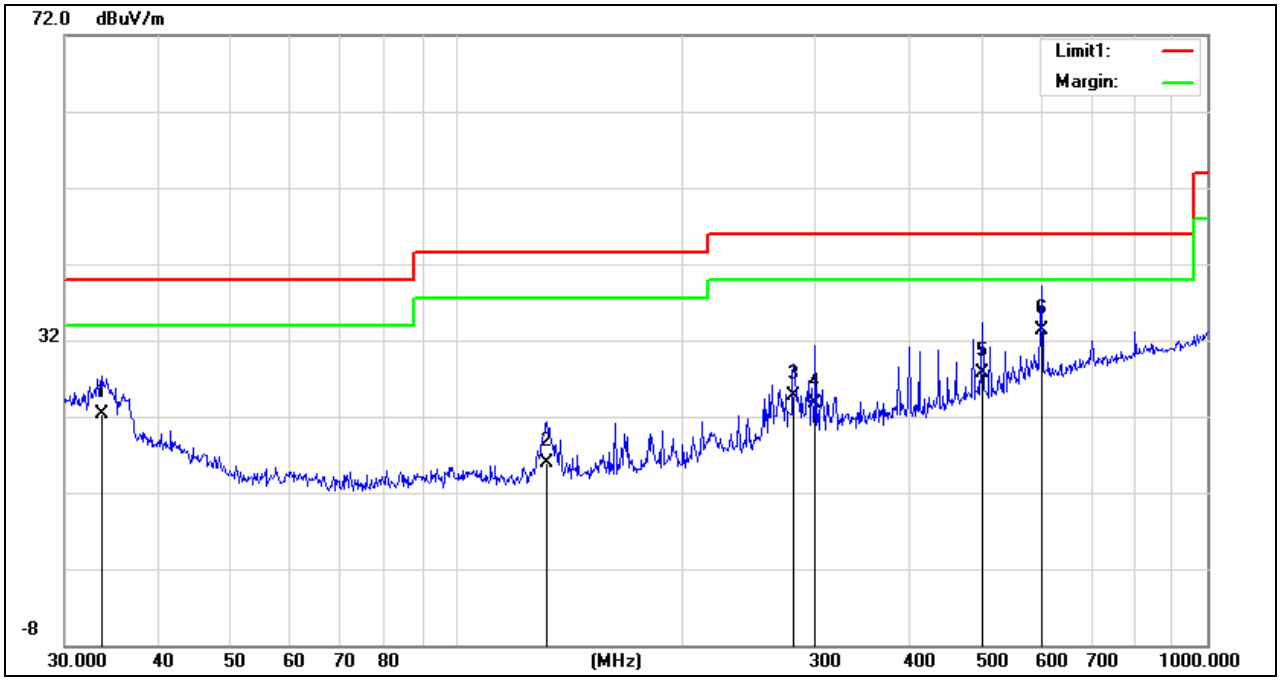
4.1.4 TEST RESULTS

Test Result:	**Pass**	**Polarization:**	**Vertical**
Standard:	**(RE)FCC PART 15 class B 3m**	**Power Source:**	**DC 12V**
Test item:	**Radiation Test**	**Date:**	**2011-11-18**
Temp./Hum.(%RH):	**25/57%RH**	**Time:**	**9:55:45**
EUT:	**MUNIC**	**Model:**	**D4M 35MD02**
Note:	**Test mode: standby**		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	34.3964	18.04	16.76	34.80	40.00	-5.20	QP
2	36.1272	17.12	15.68	32.80	40.00	-7.20	QP
3	130.8369	12.98	8.72	21.70	43.50	-21.80	QP
4	169.5990	6.28	10.52	16.80	43.50	-26.70	QP
5	300.3672	11.23	15.07	26.30	46.00	-19.70	QP
6	601.4265	8.51	22.29	30.80	46.00	-15.20	QP

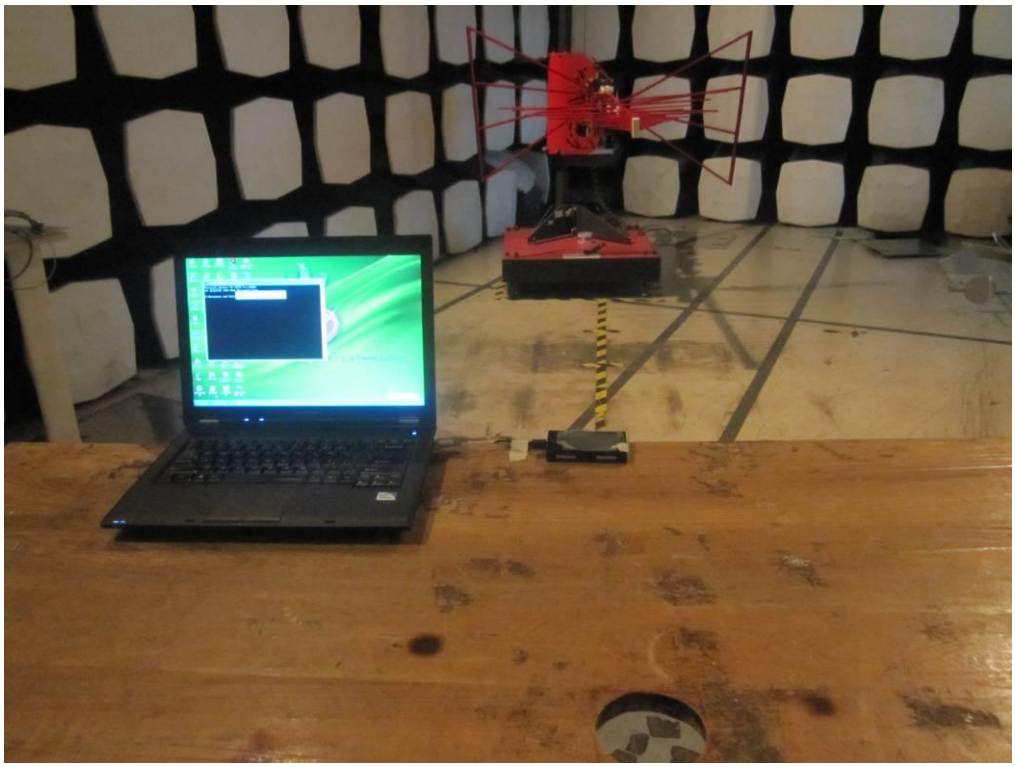
Test Result:	**Pass**	**Polarization:**	**Horizontal**
Standard:	**(RE)FCC PART 15 class B 3m**	**Power Source:**	**DC 12V**
Test item:	**Radiation Test**	**Date:**	**2011-11-18**
Temp./Hum.(%RH):	**25/57%RH**	**Time:**	**10:08:20**
EUT:	**MUNIC**	**Model:**	**D4M 35MD02**
Note:	**Test mode: standby**		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	33.6802	5.21	17.19	22.40	40.00	-17.60	QP
2	131.7577	7.24	8.76	16.00	43.50	-27.50	QP
3	281.0075	10.32	14.48	24.80	46.00	-21.20	QP
4	300.3672	8.63	15.07	23.70	46.00	-22.30	QP
5	501.1790	8.00	19.80	27.80	46.00	-18.20	QP
6	601.4265	11.00	22.29	33.29	46.00	-12.71	QP

APPENDIX A: PHOTOGRAPH OF THE TEST ARRANGEMENT

Radiated Emission



APPENDIX B: PHOTOGRAPH OF THE EUT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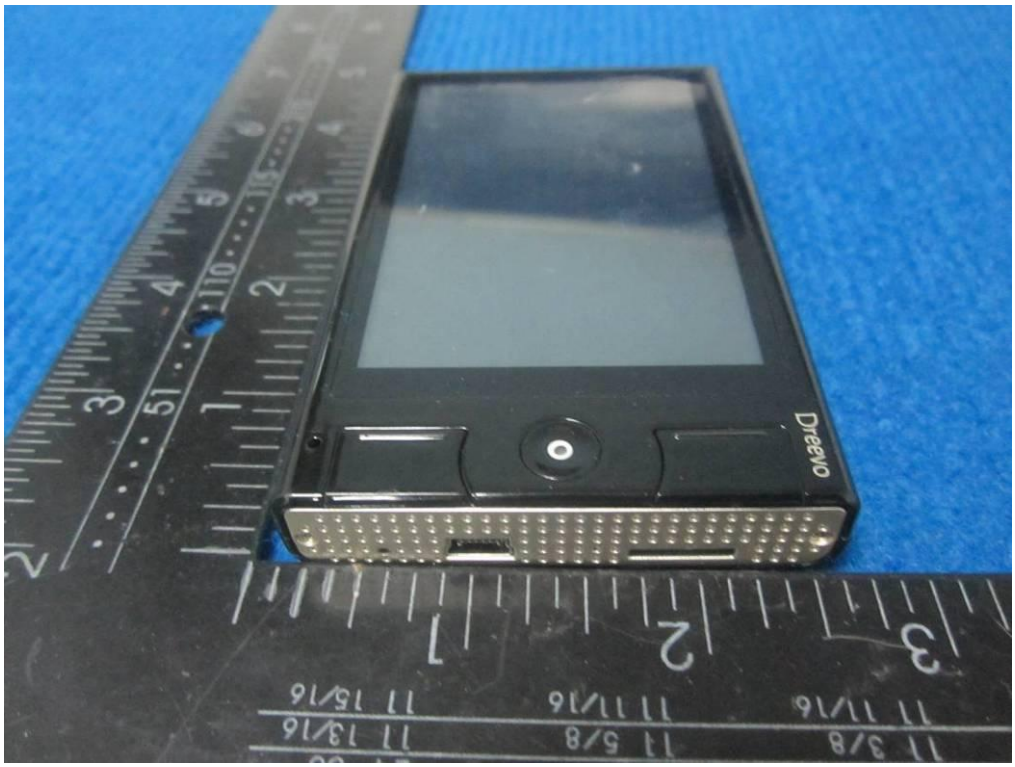
micro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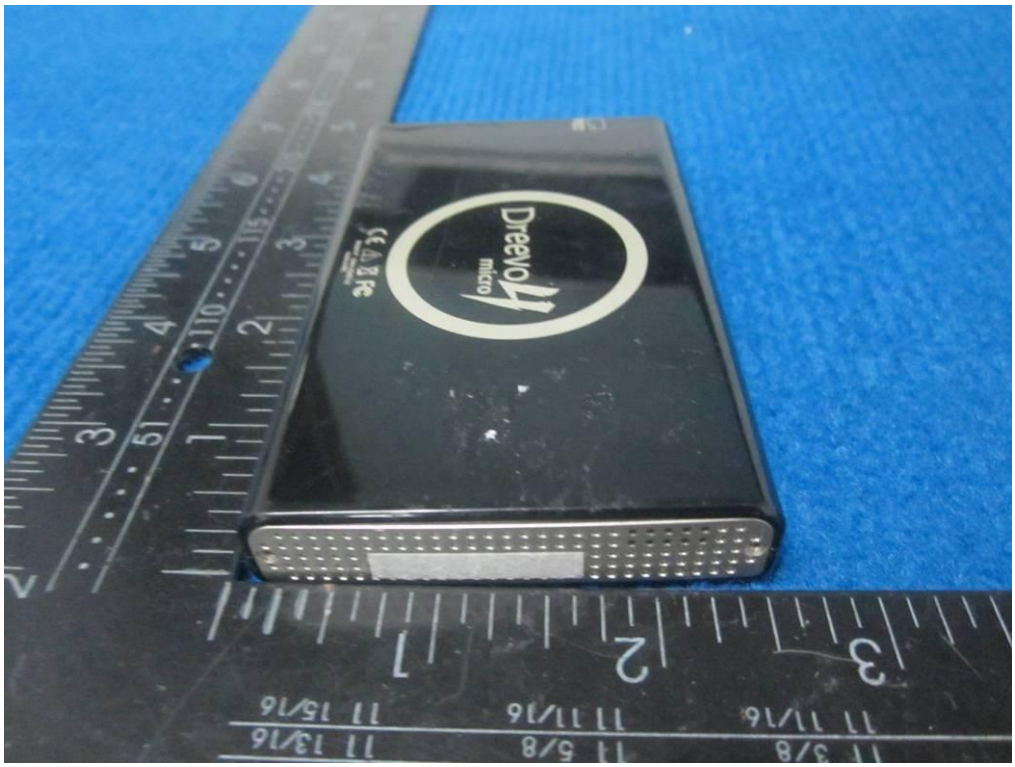
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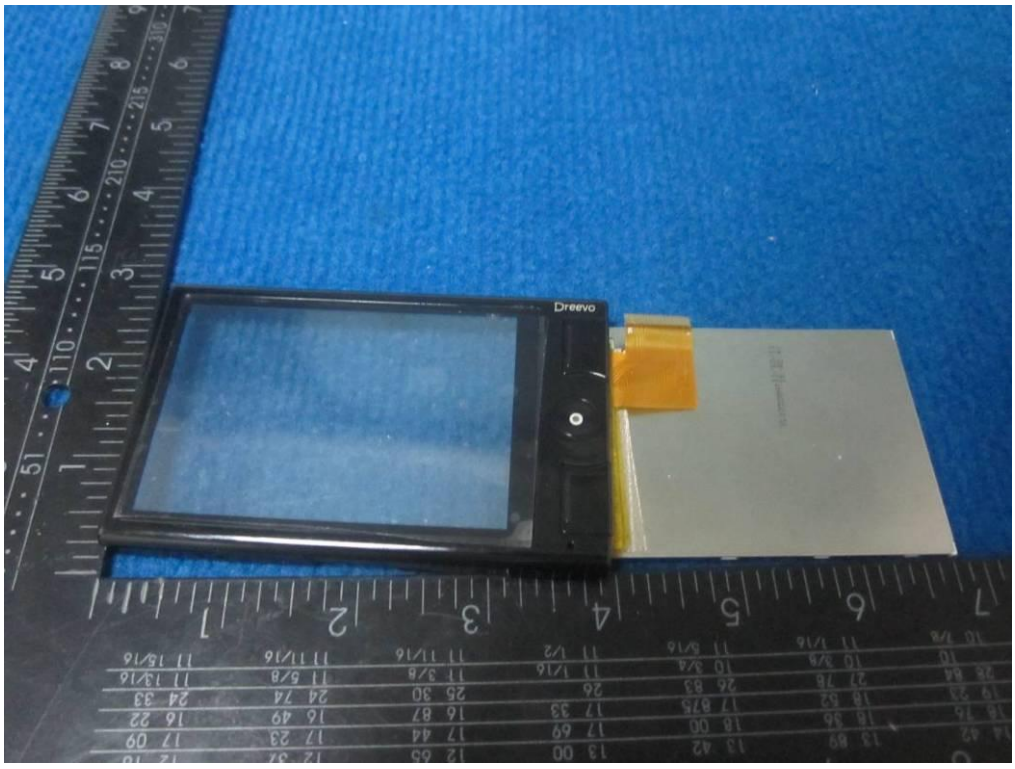

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