

ETSI EN 301 489-1 V1.9.2 (2011-09)
 ETSI EN 301 489-3 V1.6.1 (2013-08)
 ETSI EN 301 489-7 V1.3.1 (2005-11)
 ETSI EN 301 489-17 V2.2.1 (2012-09)
 ETSI EN 301 489-24 V1.5.1 (2010-10)

TEST REPORT

For

Advanced Technologies SRL

Ion Heliade Radulescu nr 26, Bucharest 021255, ROMANIA

Tested Model: Xylo Q
Multiple Model: Xylo X

Report Type: Original Report	Product Type: Smartphone Xylo
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Report Number: RSZ160309002-02	
Report Date: 2016-03-30	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Advanced Technologies SRL's* product, model number: *Xylo Q* or the "EUT" in this report was a *Smartphone Xylo*, which was measured approximately: 126.9 mm (L) × 64.1 mm (W) × 10.35 mm (H), rated with input voltage: DC 3.7V rechargeable Li-ion battery.

Note: The series product, model Xylo X and Xylo Q. Model Xylo Q was selected for fully testing, which was explained detailedly in the attached product similarity declaration letter.

**All measurement and test data in this report was gathered from production sample serial number: 1601567 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2016-03-09.*

Objective

This test report is prepared on behalf of *Advanced Technologies SRL* in accordance with ETSI EN 301 489-3 V1.6.1 (2013-08), Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Device (SRD) operating on frequencies between 9 kHz and 246 GHz. ETSI EN 301 489-7 V1.3.1 (2005-11), Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (EGSM and DCS). ETSI EN 301 489-17 V2.2.1 (2012-09), Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems. ETSI EN 301 489-24 V1.5.1 (2010-10), Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment, Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.

The objective is to determine compliance with ETSI EN 301 489-3 V1.6.1 (2013-08), ETSI EN 301 489-7 V1.3.1 (2005-11), ETSI EN 301 489-17 V2.2.1 (2012-09), and ETSI EN 301 489-24 V1.5.1 (2010-10).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 489-1 V1.9.2 (2011-09).

Test Facility

The test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FINAL

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user)

Test mode 1: GPS receiving (working with GPS generator)

Test mode 2: Bluetooth transmitting (working and monitoring with Bluetooth tester)

Test mode 3: Wi-Fi transmitting (working and monitoring with Wireless Router)

Test mode 4: GSM/DCS transmitting (working and monitoring with CMU 200 & sound analyser)

Test mode 5: WCDMA transmitting (working and monitoring with CMU 200)

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

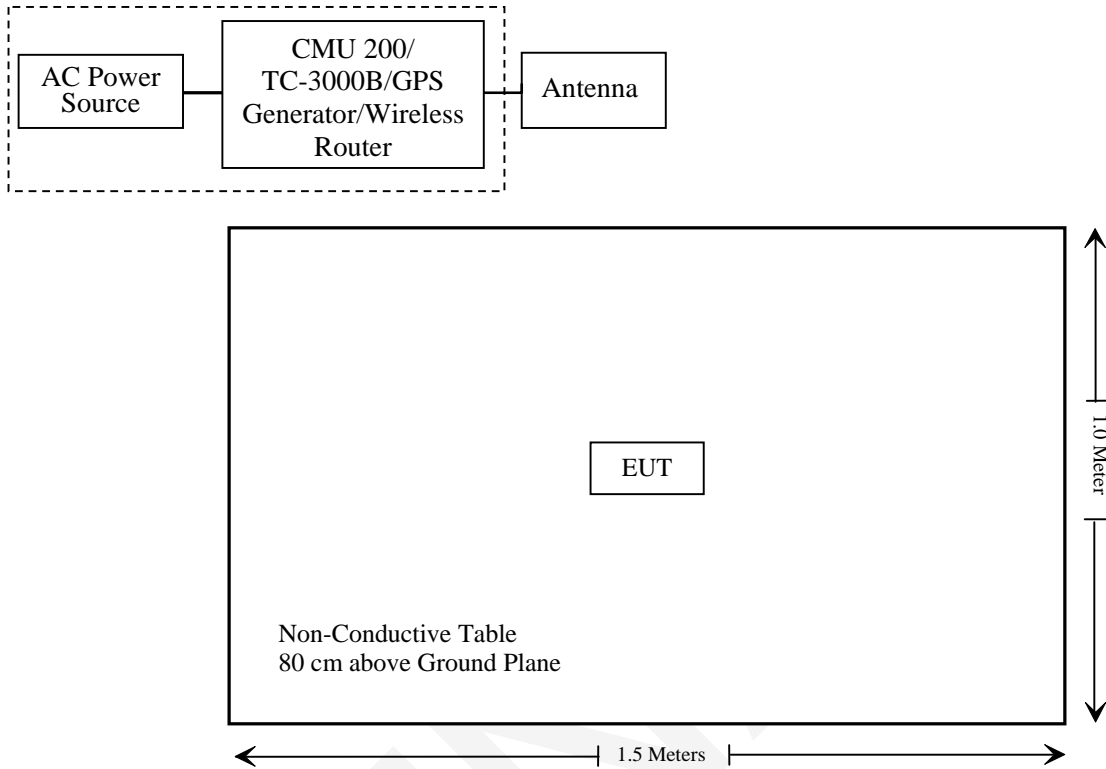
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891
TESCOM	Bluetooth Tester	TC-3000B	3000B630010
SAGEM	Wireless ADSL Router	SAGEM F@ST™ 2604 White	N/A
MEGURO	GPS Signal Generator	MSG-2050	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	To
/	/	/	/

Block Diagram of Test Setup

Test mode 1 & Test mode 2 & Test mode 3 & Test mode 4 & Test mode 5:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§7.1	Reference to clauses EN 301 489-1 §8.4 AC mains power input/output ports	Not Applicable
	Reference to clauses EN 301 489-1§8.3 DC power input/output ports	Not Applicable
	Reference to clauses EN 301 489-1 §8.2 Enclosure of ancillary equipment measured on a stand alone basis	Not Applicable
	Reference to clauses EN 301 489-1 §8.5 Harmonic current emissions (AC mains input port)	Not Applicable
	Reference to clauses EN 301 489-1 §8.6 Voltage fluctuations and flicker (AC mains input port)	Not Applicable
	Reference to clauses EN 301 489-1§8.7 Telecommunication ports	Not Applicable
§7.2	Reference to clauses EN 301 489-1 §9.2 Radio frequency electromagnetic field (80 MHz to 1 000 MHz and 1 400 MHz to 2 700 MHz)(EN 61000-4-3)	Compliance
	Reference to clauses EN 301 489-1 §9.3 Electrostatic discharge (EN 61000-4-2)	Compliance
	Reference to clauses EN 301 489-1§9.4 Fast transients, common mode (EN 61000-4-4)	Not Applicable
	Reference to clauses EN 301 489-1§9.5 Radio frequency, common mode (EN 61000-4-6)	Not Applicable
	Reference to clauses EN 301 489-1 §9.6 Transients and surges in the vehicular environment (ISO 7637-2)	Not Applicable
	Reference to clauses EN 301 489-1§9.8 Surges (EN 61000-4-5)	Not Applicable
	Reference to clauses EN 301 489-1§9.7 Voltage dips and interruptions (EN 61000-4-11)	Not Applicable

Not Applicable: The EUT is used as a portable device.

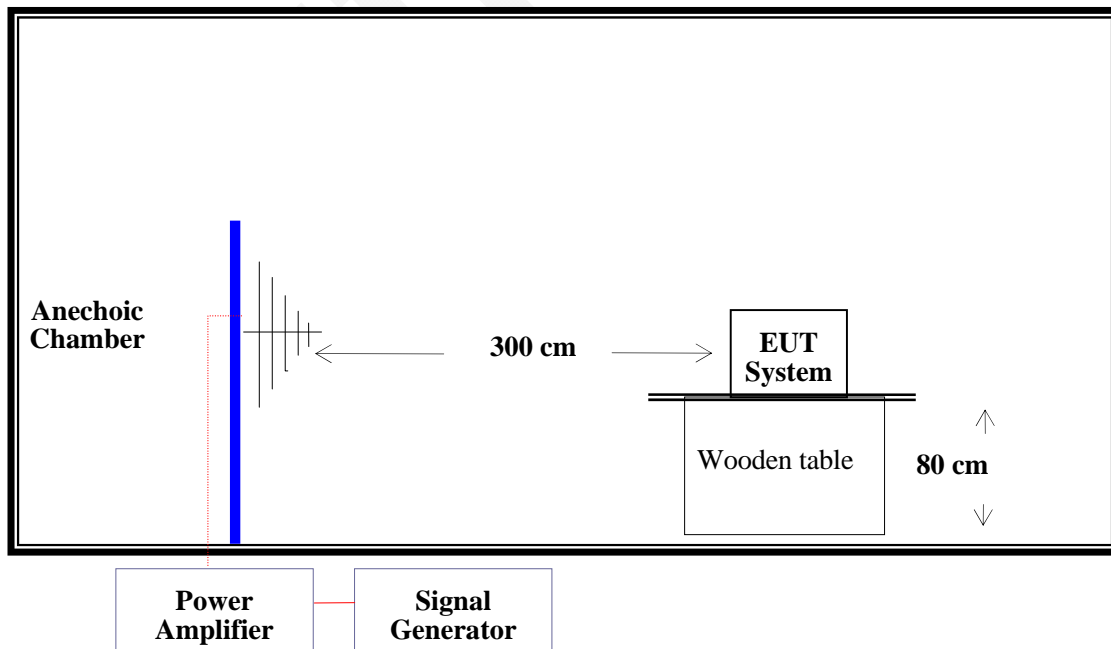
§7.2 - RF ELECTROMAGNETIC FIELD (80-1000MHz, 1400-2700 MHz)

Test Equipment

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Amplifier Research	Power Amplifier	200W1000/M2	H1004497	2015-11-03	2016-11-03
Krohn-hite	Audio Filter	3940	003096	2016-02-28	2017-02-27
HP	Signal Generator	8648C	3426A01345	2015-06-09	2016-06-09
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
HP	Signal Generator	8341B	2624A00116	2015-07-02	2016-07-01
BACL	Sound detecting Holder	N/A	N/A	NCR	NCR
BK Precision	Sound Level meter	735	0735 0087 309110025	2015-11-04	2016-11-04
HP	Communication Test Set	8920A	3325U00859	2015-06-03	2016-06-02
Rohde & Schwarz	Audio Analyzer	UPV	1146.2003K0 2-101782-XP	2015-06-02	2016-06-01

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test System Setup



Test Standard

ETSI EN 301 489-1 V1.9.2 / EN 61000-4-3:2006+A1:2008 +A2: 2010
 Test Level 2 at 3V / m
 Test Levels and Performance Criterion

Test Level

Level	Field Strength (V/m)
1.	1
2.	3
3.	10
X.	Special

Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera and artificial station are used to monitor the EUT or an artificial ear and sound level meter were used to monitor the sound pressure level.

All the scanning conditions are as follows:

Condition of Test	Remarks
-----	-----
1. Field Strength	3 V/m (Test Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 - 1000 MHz and 1400-2700 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1 Sec.

Test Data and Setup Photo**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Sonia Zhou on 2016-03-24.

Test mode 1, Test mode 2, Test mode 3, Test mode 4, Test mode 5:

Frequency Range (MHz)	Front Side (3 V/m)		Rear Side (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A
1400-2700	A	A	A	A	A	A	A	A

Performance Criterion: A

Test mode 1:

Note: "A" stand for, during test, operate as intended No loss function, and after test, operate as intended.

Test mode 2 & Test mode 3:

Note: "A" stand for, during test, operate as intended No loss function, no degradation of performance, no unintentional transmissions. and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

Test mode 4:

Note: "A" stand for, the uplink/downlink speech output level shall be at least 35 dB less than the previously recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (audio breakthrough check). The RXQUAL of the downlink is not exceeding the value of three, measured during each individual exposure in the test sequence. Or during and after the test, the apparatus continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level

Test mode 5:

Note: "A" stand for, In the data transfer mode, the BER (as referred in TS 134 109 [8]) is used, it shall not exceed 0,001 during the test sequence, in the speech mode, the performance criteria shall be that the up link and downlink speech output levels shall be at least 35 dB less than the recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz. in idle mode, the transmitter is not unintentionally operate.



Test Setup Photo

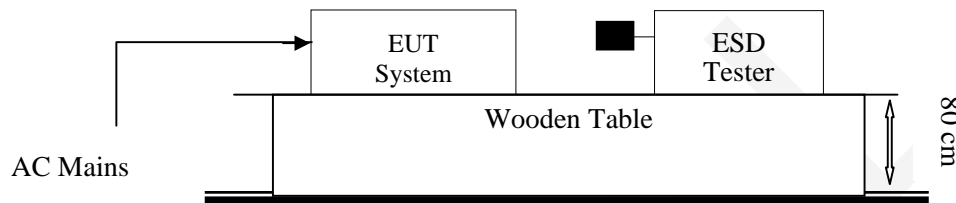
§7.2 - ELECTROSTATIC DISCHARGE

Test Equipment

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	ESD Tester	Dito	302105	2015-11-04	2016-11-04

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test System Setup



Remark: ■ is the tip of the electrode

EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

Test Standard

ETSI EN 301 489-1 V1.9.2 / EN 61000-4-2:2009

Air Discharge at $\pm 2, \text{kV} \pm 4 \text{kV}, \pm 8 \text{kV}$

Contact Discharge at $\pm 2, \text{kV} \pm 4 \text{kV}$

Test Level

Level	Test Voltage Contact Discharge ($\pm \text{kV}$)	Test Voltage Air Discharge ($\pm \text{kV}$)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

Performance criterion: B

Test Procedure

Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Contact Discharge:

All the procedure shall be same as Section 8.3.1 of EN 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

Indirect discharge for horizontal coupling plane

At least 50 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane

At least 50 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m × 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Test Data and Setup Photo

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Sonia Zhou on 2016-03-24.

Test mode 1, Test mode 2, Test mode 3, Test mode 4, Test mode 5:

Model: Xylo Q

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front (8 points)	A	A	A	A	A	A	/	/
Rear (3 points)	A	A	A	A	A	A	/	/
Left (3 points)	A	A	A	A	A	A	/	/
Right (2 points)	A	A	A	A	A	A	/	/
Top (2 points)	A	A	A	A	A	A	/	/
Bottom (2 points)	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
/	/	/	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2 Test Points Location	Test Levels							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

Model: Xylo X

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points Location		Test Levels							
		-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV
Front	(9 points)	A	A	A	A	A	A	/	/
Rear	(3 points)	A	A	A	A	A	A	/	/
Left	(2 points)	A	A	A	A	A	A	/	/
Right	(1 point)	A	A	A	A	A	A	/	/
Top	(2 points)	A	A	A	A	A	A	/	/
Bottom	(1 points)	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points Location		Test Levels							
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
/		/	/	/	/	/	/	/	/

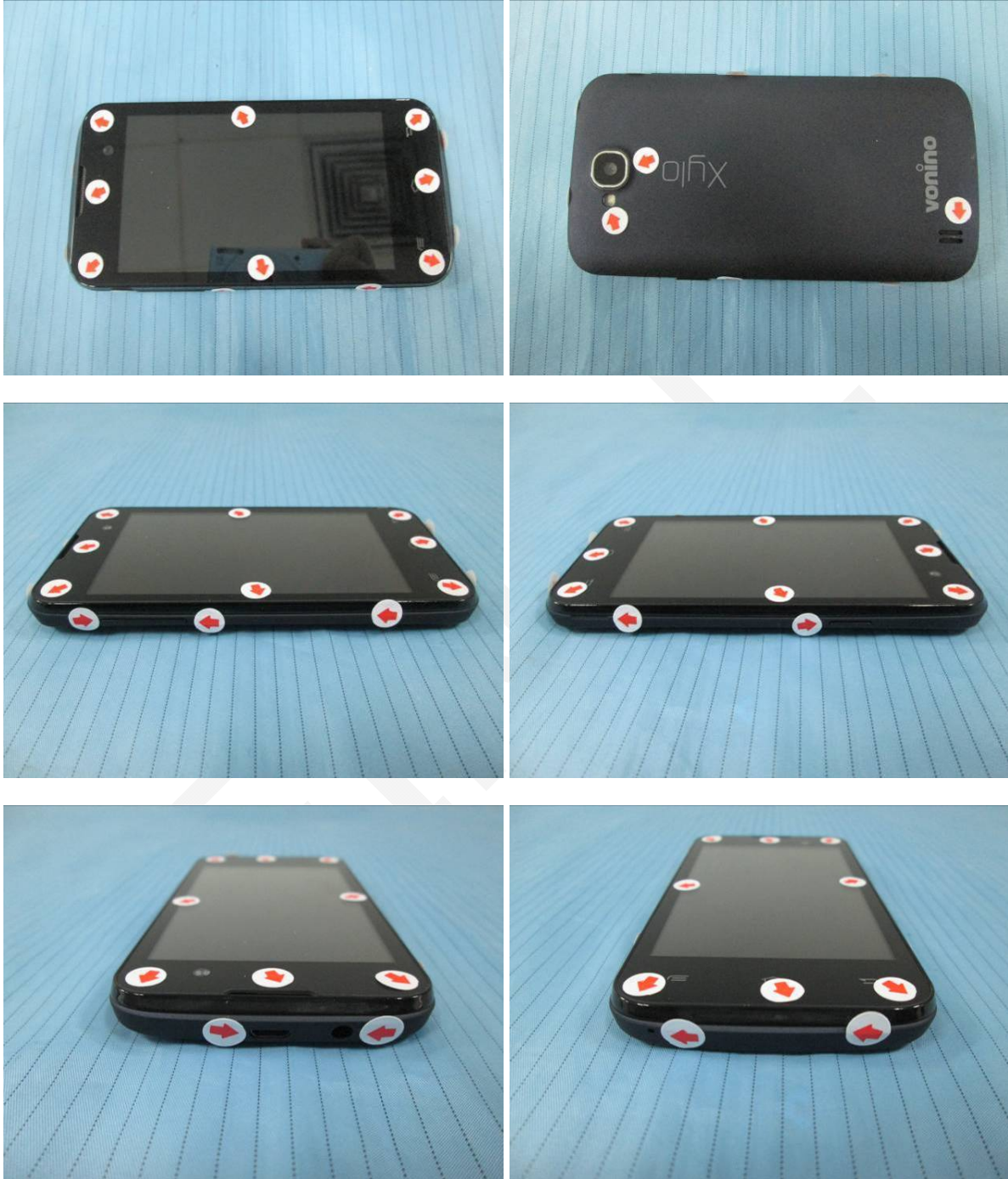
Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2 Test Points Location		Test Levels							
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side		A	A	A	A	/	/	/	/
Back Side		A	A	A	A	/	/	/	/
Left Side		A	A	A	A	/	/	/	/
Right Side		A	A	A	A	/	/	/	/

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2 Test Points Location		Test Levels							
		-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side		A	A	A	A	/	/	/	/
Back Side		A	A	A	A	/	/	/	/
Left Side		A	A	A	A	/	/	/	/
Right Side		A	A	A	A	/	/	/	/

Model: Xylo Q



Model: Xylo X



Note:  represents air discharge,  represents direct contact

Model: Xylo Q



Model: Xylo X



Test Setup Photos

EXHIBIT A - CE PRODUCT LABELING

CE Label Format

CE 1313

Specifications: The marking set out above must be affixed to the apparatus or to its data plate and have a minimum height of 5 mm. The elements should be easily readable and indelible. They may be placed anywhere on the apparatus case or in its battery compartment. No tool should be needed to view the marking.
1313: 4 digit notified body number

Note: The label should contain the below content

- ① The name of the manufacturer or the person responsible for placing the apparatus on the market
- ② Type
- ③ Batch and/or serial numbers

Proposed Label Location on EUT



Model: Xylo Q

Model: Xylo X

EXHIBIT B - EUT PHOTOGRAPHS

Model: Xylo Q

EUT – Front View



EUT – Rear View



EUT – Top View



EUT – Bottom View



EUT –Left Side View



EUT – Right Side View



EUT –Cover off View 1



EUT –Cover off View 2



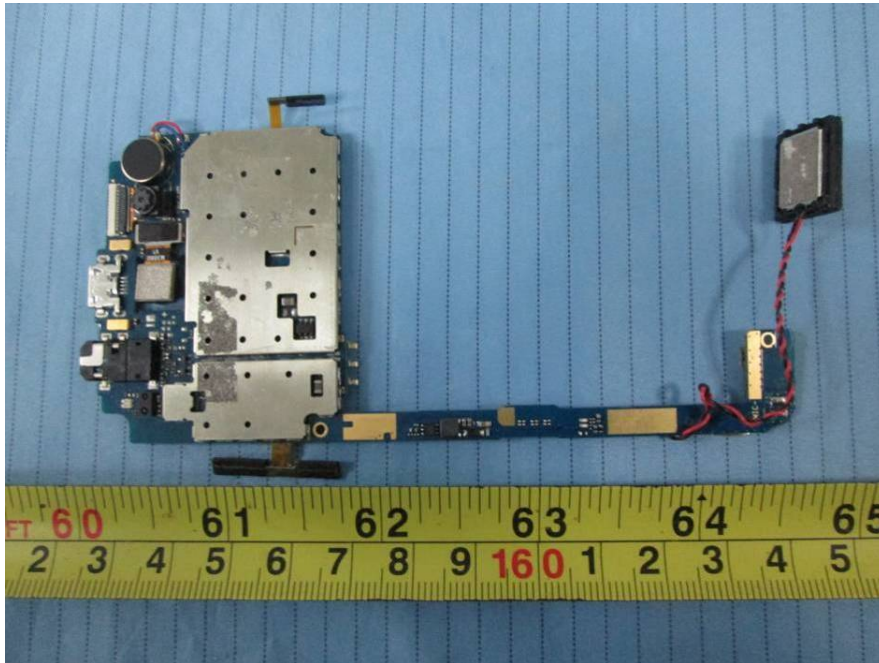
EUT –Cover off View 3



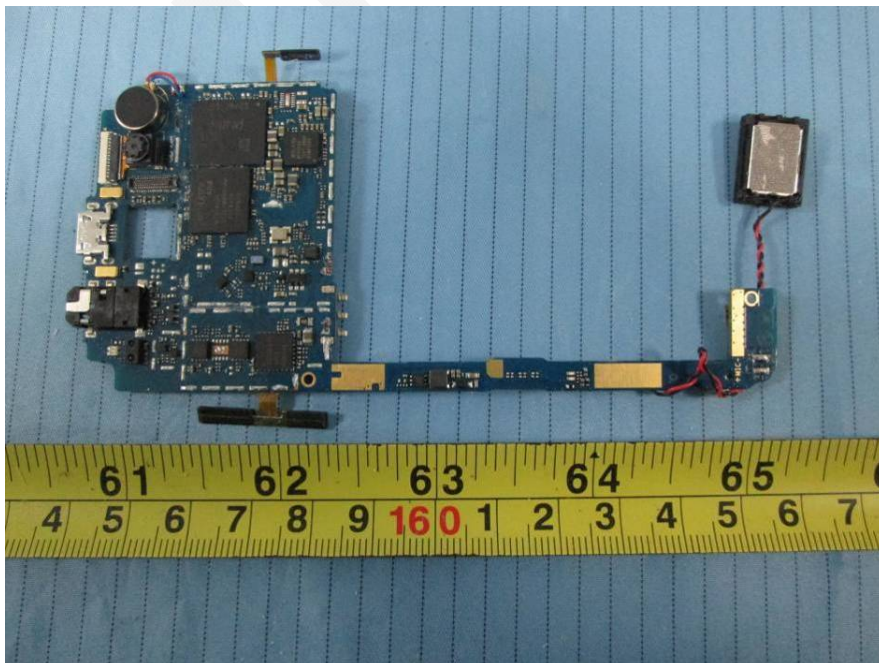
EUT –Cover off View 4



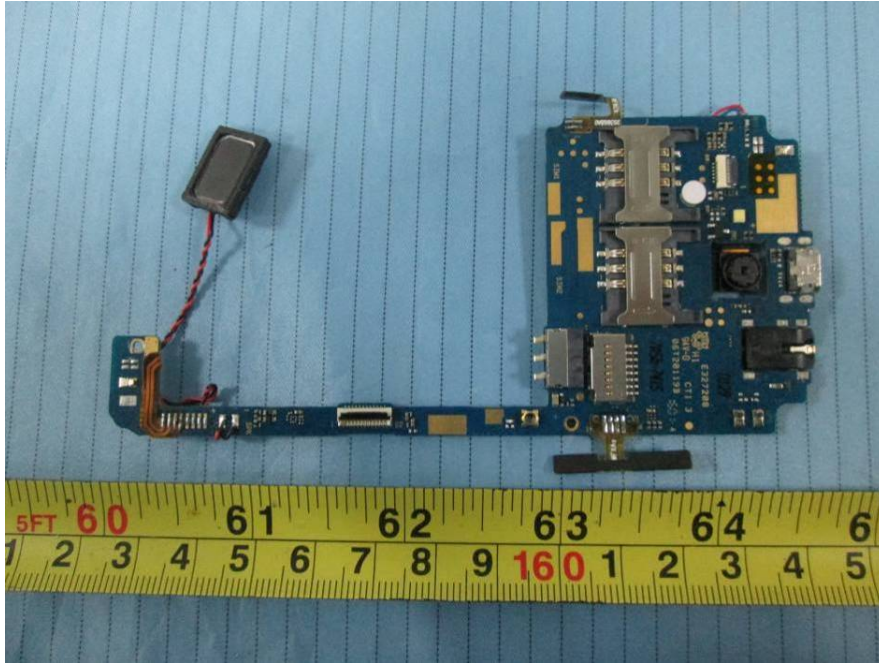
EUT – Main Board Top View



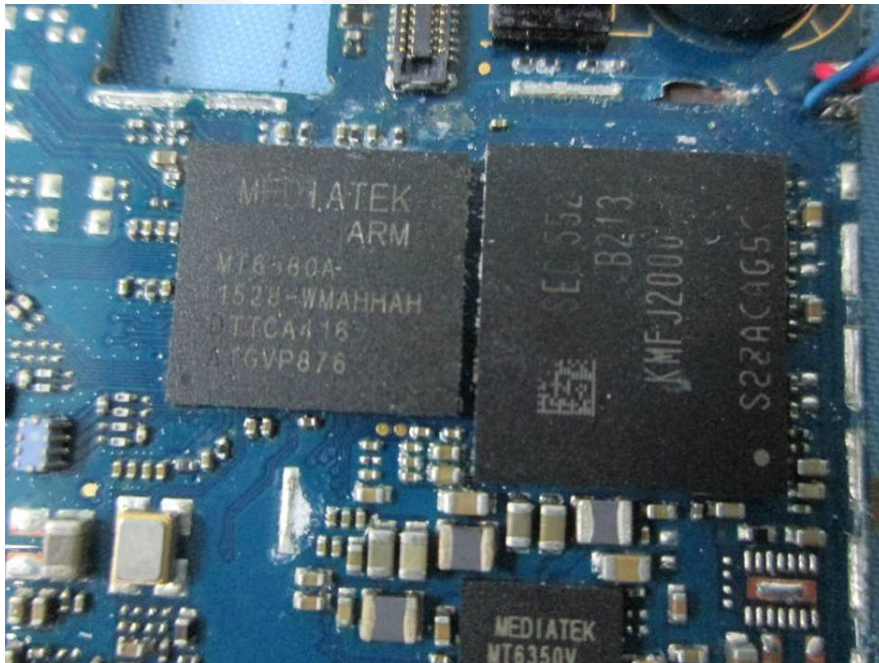
EUT – Main Board Top Shielding off View



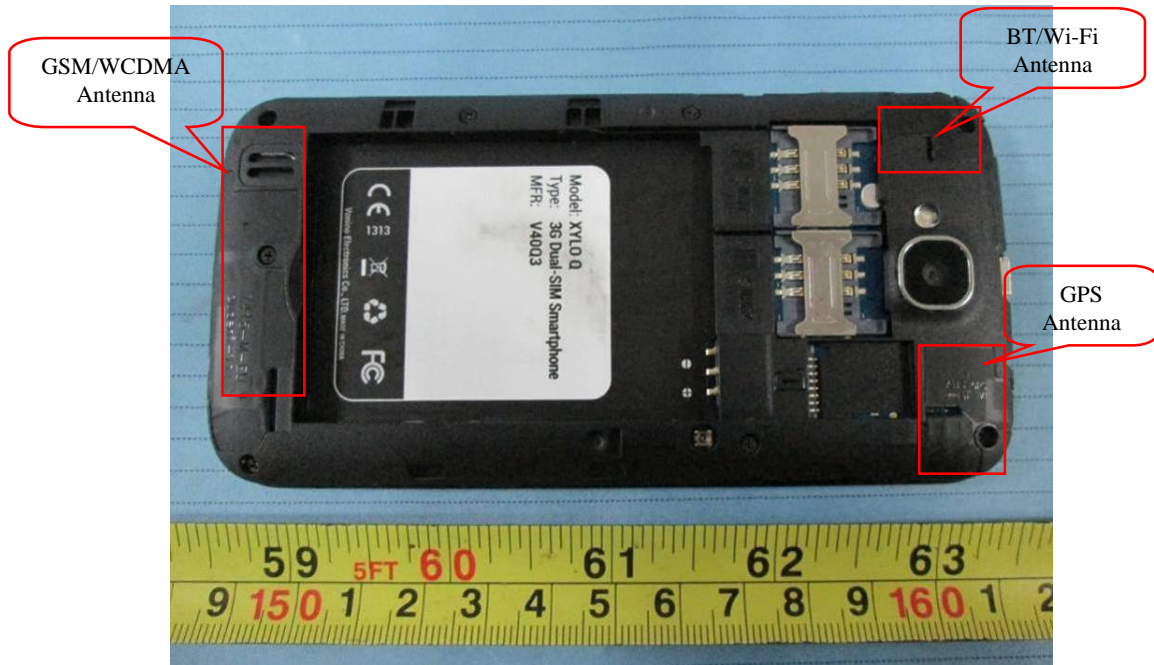
EUT – Main Board Bottom View



EUT – IC Chip View



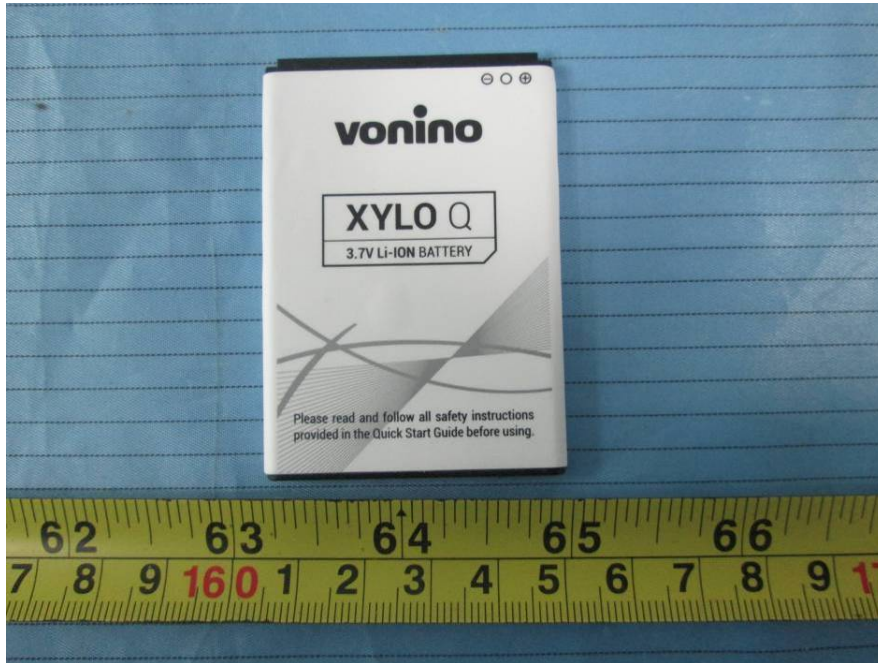
EUT – Antenna View



EUT – Battery Top View

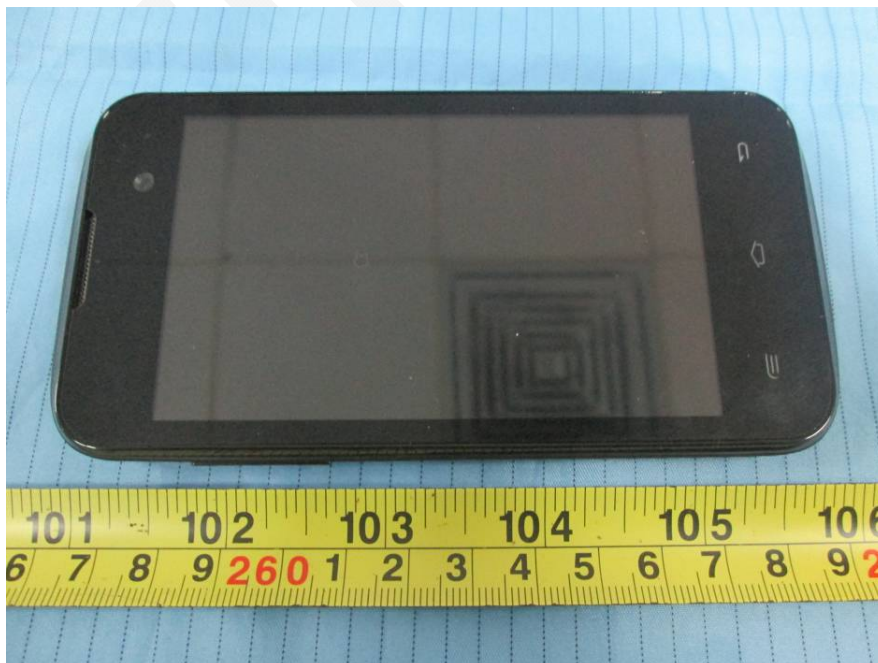


EUT – Battery Bottom View



Model: Xylo X

EUT – Front View



EUT – Rear View



EUT – Top View



EUT – Bottom View



EUT –Left Side View



EUT – Right Side View



EUT –Cover off View 1



EUT –Cover off View 2



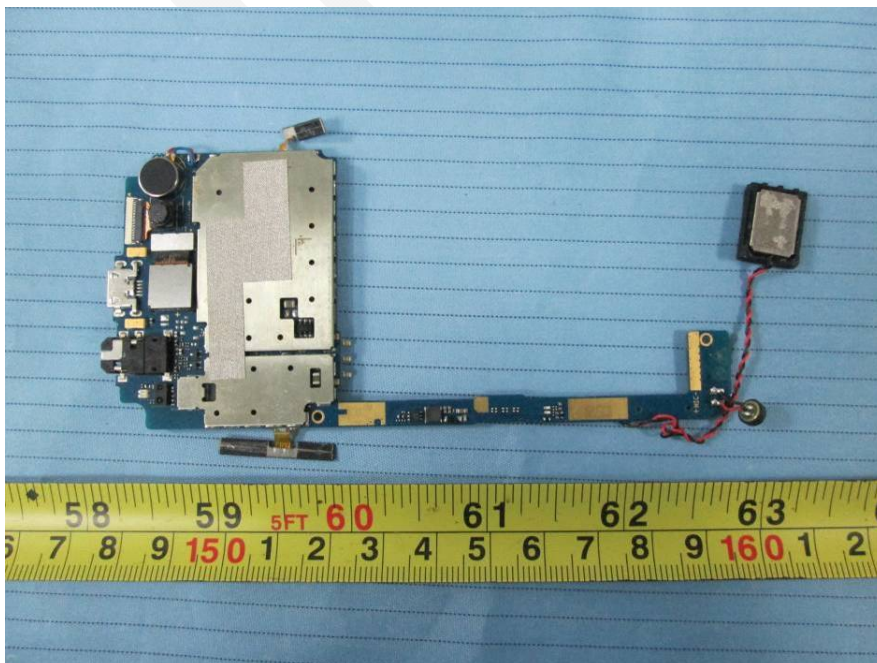
EUT –Cover off View 3



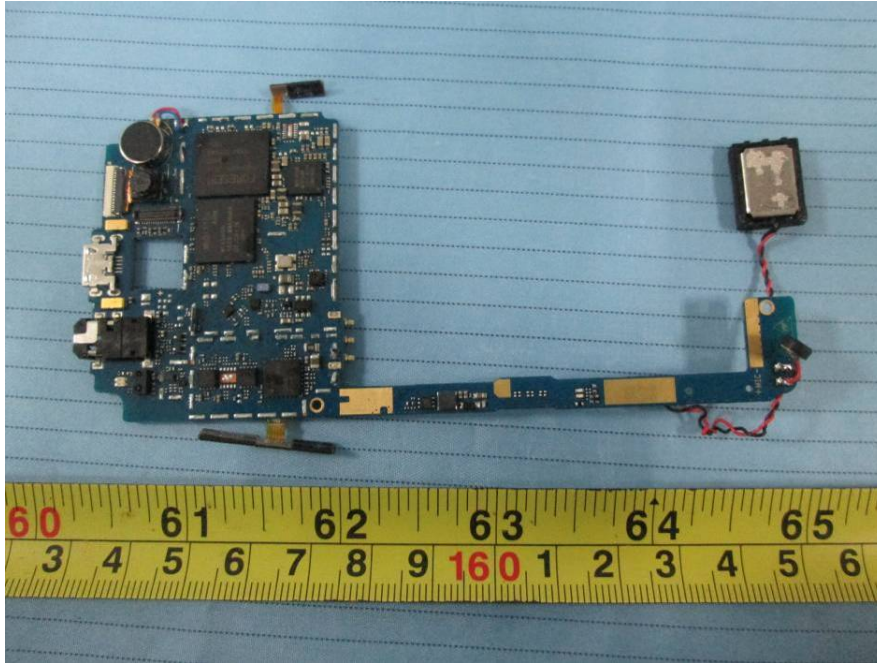
EUT –Cover off View 4



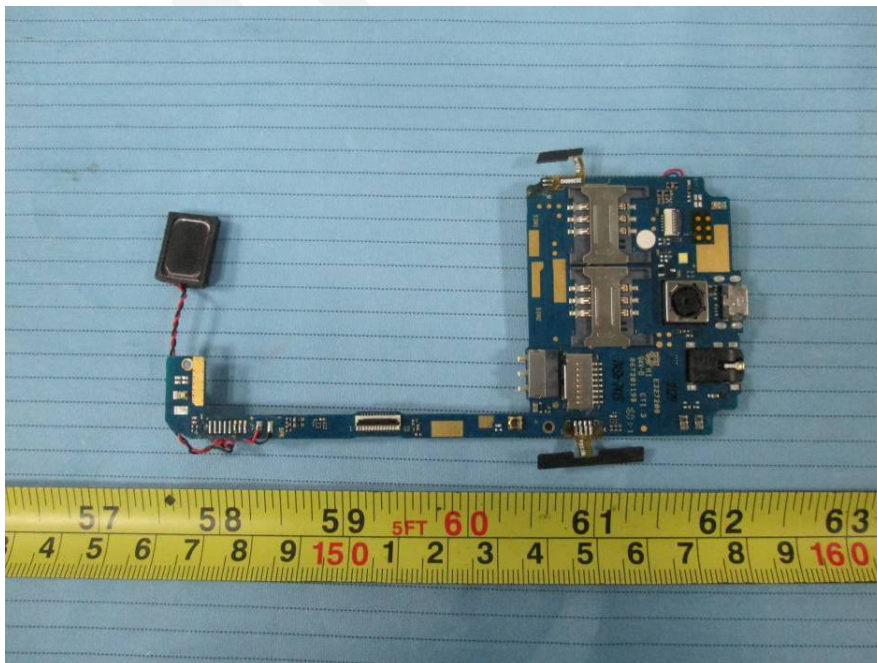
EUT – Main Board Top View



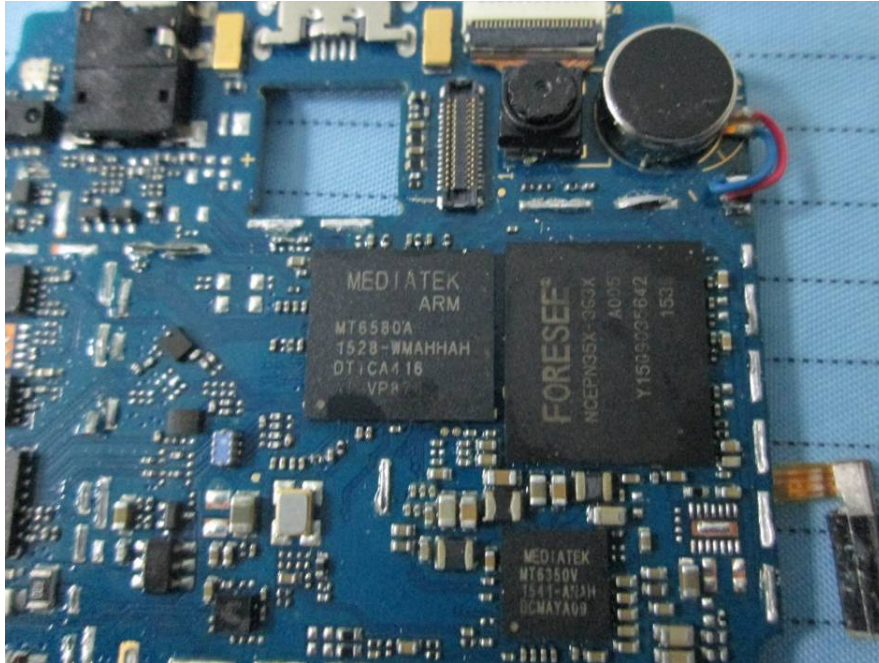
EUT – Main Board Top Shielding off View



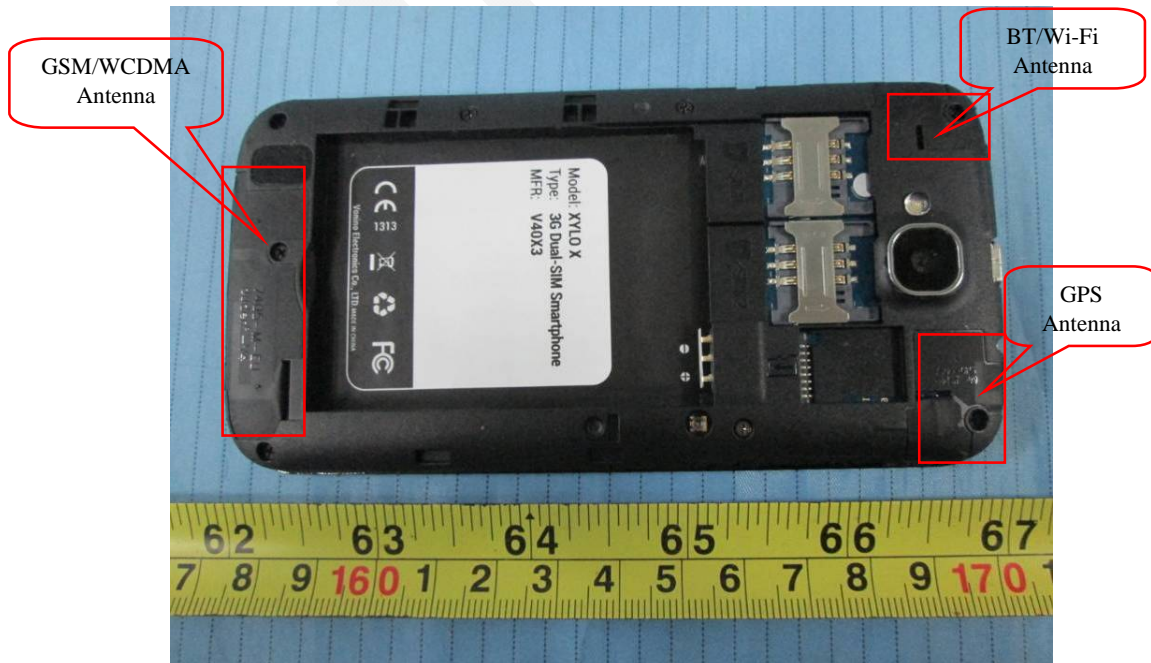
EUT – Main Board Bottom View



EUT – IC Chip View



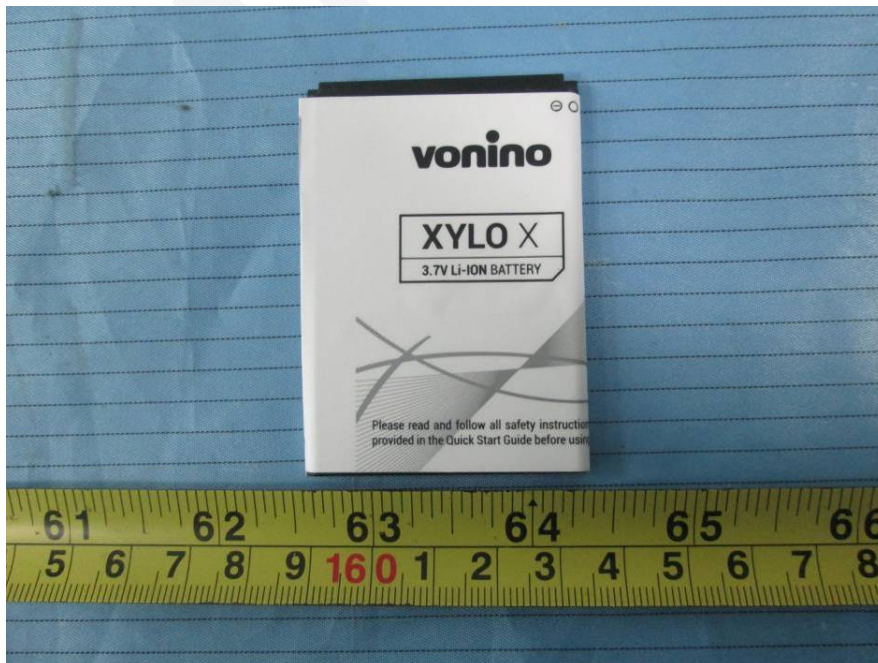
EUT – Antenna View



EUT – Battery Top View



EUT – Battery Bottom View



PRODUCT SIMILARITY DECLARATION LETTER

Advanced Technologies SRL
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E-mail: marius.chirca@advanced.ro

2016-3-30

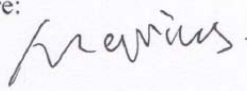
Product Similarity Declaration

To Whom It May Concern,

We, Advanced Technologies SRL, hereby declare that we have a product named as Smartphone Xylo (Model number: Xylo Q) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (Xylo X) on reports and certificate. the difference of these models is the memory of flash, since the model Xylo Q is 512M and Xylo X is 1G. The pixels of camera are different since Xylo Q is equipped with 200W and Xylo X is equipped with 500W. No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Marius 
Purchasing Manager

******* END OF REPORT *******