#### FCC TEST REPORT

On Behalf of

VISUAL LAND INC.

8inch TABLET

Model No.: ME-8Q

Prepared for : VISUAL LAND INC.

Address : 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

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Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : February 21, 2014

Number of tested samples : 1

Serial number : Prototype

Date of Test : February 21, 2014–March 18, 2014

Date of Report : March 18, 2014

#### FCC TEST REPORT

Report Reference No. .....: LCS140221511TF

Date Of Issue .....: March 18, 2014

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address ..... : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name .....: VISUAL LAND INC.

Address .....: 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

**Test Specification** 

Standard.....: FCC CFR 47 PART 15 Subpart B: 2012, ANSI C63.4-2009

Test Report Form No.....: LCSEMC-1.0

TRF Originator .....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF....: Dated 2011-03

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Test Item Description.....: 8inch TABLET

Trade Mark .....: RANGERFONE

Model/ Type Reference .....: ME-8Q

Ratings..... : DC 3.7V by Li-ion battery Recharge Voltage: DC 5V/2A

Adapter Parameters: Input AC 100~240V, 50/60Hz 0.35A

Output: DC 5V/2A

Result .....: Positive

**Supervised by: Approved by:** 

Compiled by:

Fox Zhang/ Technique principal

Gavin Liang/ Manager

# **FCC -- TEST REPORT**

Test Report No.: LCS140221511TF

March 18, 2014

Date of issue

Type / Model	: ME-8Q
EUT	: 8inch TABLET
Applicant	: VISUAL LAND INC.
Address	: 17785 Center Court Dr. Suite 670, Cerritos, CA 90703
Telephone	:/
Fax	:/
Contact	:/
Manufacturer	: MultiElements Co., Ltd.
Address	Room c, 4F, Buiding 7, Huafeng Industrial Park, Xixiang Yintian Road, Baoan District, Shenzhen
Telephone	:/
Fax	:/
Contact	:/
Factory	: MultiElements Co., Ltd.
Address	Room c, 4F, Buiding 7, Huafeng Industrial Park, Xixiang Yintian Road, Baoan District, Shenzhen
Telephone	:/
Fax	:/
Contact	:/

## **Test Result** according to the standards on page 5: **Positive**

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.

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# 1. SUMMARY OF STANDARDS AND RESULTS

# 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

	<u> </u>				
EMISSION					
Description of Test Item Standard Limits Results					
Conducted disturbance at mains terminals	FCC CFR 47 PART 15 Subpart B: 2012	Class B	PASS		
Radiated disturbance	FCC CFR 47 PART 15 Subpart B: 2012	Class B	PASS		
N/A is an abbreviation for Not Applicable.					

## 2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : 8inch TABLET

Model Number : ME-8Q

Power Supply : DC 3.7V by Li-ion battery

Recharge Voltage: DC 5V/2A

Adapter Parameters: Input AC 100~240V, 50/60Hz 0.35A

Output: DC 5V/2A

WIFI

Frequency Range : 2412-2462.00MHz

Channel Spacing : 5MHz

Channel Number : 11 Channels for 20MHz Bandwidth

7 Channels for 40MHz Bandwidth

Modulation Technology: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)

IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)

Data Rates : IEEE 802.11b: 1-11Mbps

IEEE 802.11g: 6-54Mbps

IEEE 802.11n: MCS0-MCS8

Antenna Type And Gain: Integral antenna, 2.0dBi(Max.)

# 2.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Bestgk Technology Co., Ltd	Adapter	K-E30502000U1		VOC
Lenovo	Note Book	B470		DOC

#### 2.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	1.2m, unshielded
Earphone Port	1	N/A
TF Card Slot	1	N/A

## 2.4. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012

The Certificate Registration Number. is 2011-RTL-L1-50.

## 2.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore,

component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

# 2.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		30MHz~200MHz	$\pm 2.96$ dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1000MHz~6000MHz	±4.10dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

<sup>1).</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

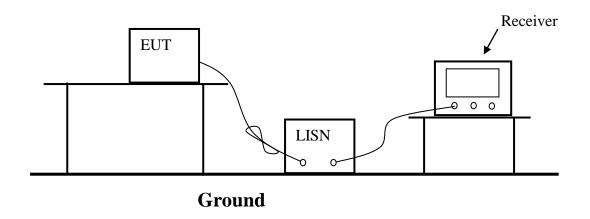
## 3. POWER LINE CONDUCTED MEASUREMENT

## 3.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	EMI Test Receiver	R & S	ESCI	101142	2013/06/18	2014/06/17
2	EMI Test Receiver	R & S	ESPI	101840	2013/06/18	2014/06/17
3	Artificial Mains	R & S	ENV216	101288	2013/06/19	2014/06/18
4	EMI Test Software	AUDIX	E3	N/A	2013/06/18	2014/06/17

## 3.2. Block Diagram of Test Setup



## 3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency of Emission	Conducted Limit (dBuV)		
(MHz)	Quasi-peak	Average	
0.15 ~ 0.50	66-56	56-46	
0.50 ~ 5.00	56	46	
5.00 ~ 30.00	60	50	

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

## 3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

## 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3.Let the EUT work in test mode (ON) and measure it.

#### 3.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2009 on Conducted Emission Measurement.

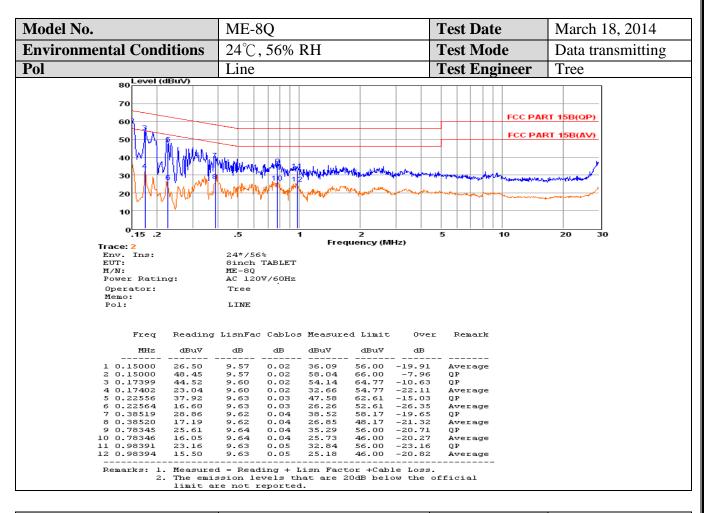
The bandwidth of test receiver is set at 9kHz.

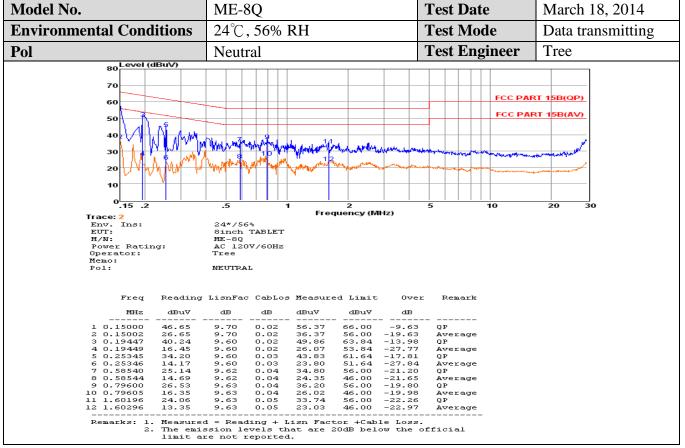
The frequency range from 150kHz to 30MHz is checked.

### 3.7. Power Line Conducted Emission Measurement Results

#### PASS.

All the scanning waveforms for Conducted Emission Measurement are refer to the next page. Only record the worst results(Data transmitting).



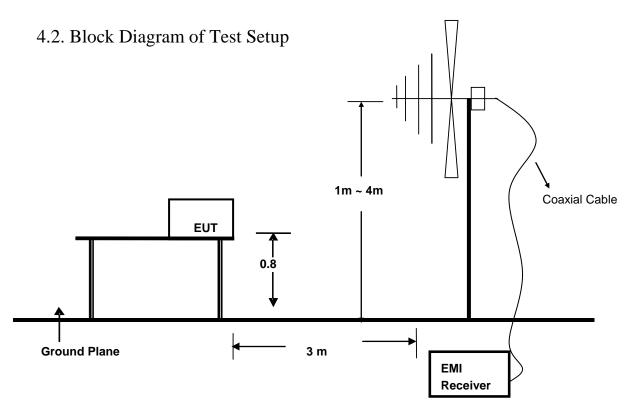


## 4. RADIATED EMISSION MEASUREMENT

# 4.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	EMI Test Receiver	R & S	ESCI	101142	2013/06/18	2014/06/17
2	EMI Test Receiver	R & S	ESPI	101840	2013/06/18	2014/06/17
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2013/06/21	2014/06/20
4	Amplifier	Compliance Direction	PAP-0102	21001	2013/06/18	2014/06/17
5	Spectrum Analyzer	Agilent	E4407B	MY41440754	2013/07/16	2014/07/15
6	Horn Antenna	ETS.LINDGREN	3115	00034771	2013/12/11	2014/12/10
7	EMI Test Software	AUDIX	E3	N/A	2013/06/18	2014/06/17



## 4.3. Radiated Emission Limit (Class B)

Limits for radiated disturbance Blow 1GHz

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT
MHz	Meters	μV/m	$dB(\mu V)/m$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54

Remark : (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 4.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2.Let the EUT work in test mode (on) and measure it.

#### 4.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

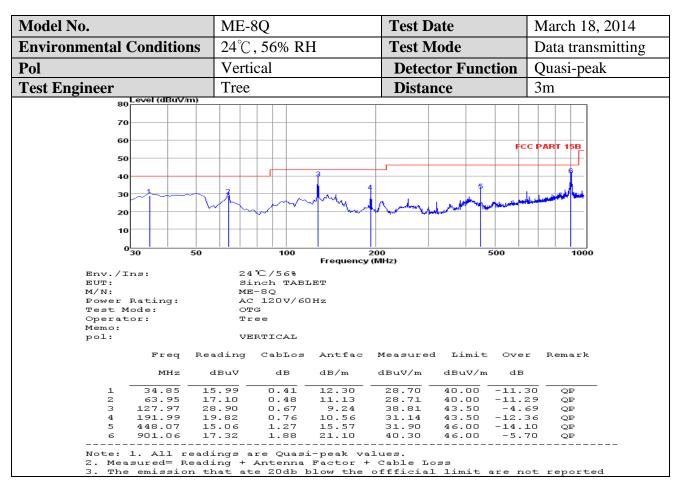
The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

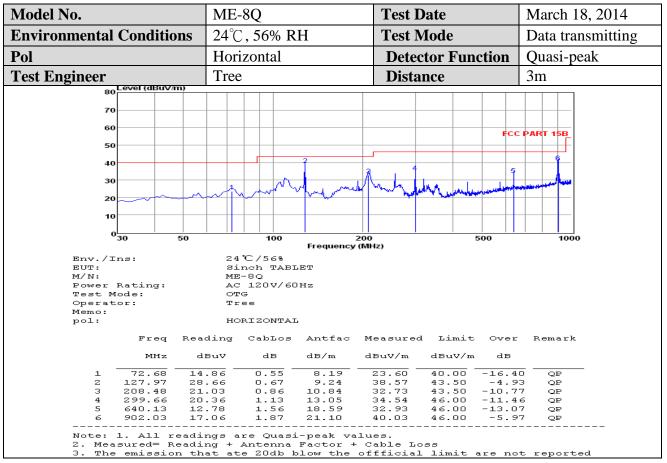
The frequency range from 30MHz to 1000MHz is checked.

#### 4.7. Radiated Emission Noise Measurement Result

#### PASS.

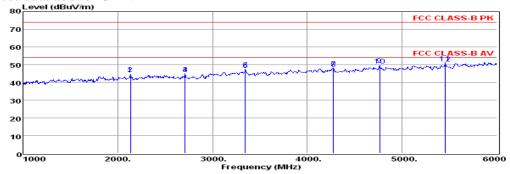
The scanning waveforms please refer to the next page. Only record the worst results. Below 30MHz the result is too low so we did not show it.





#### The test data above1GHz:

pol:

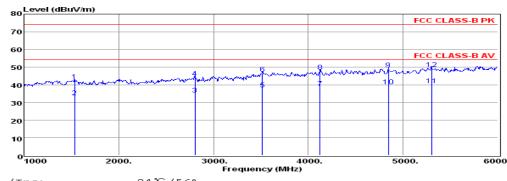


24°C/56% sinch TABLET ME-8Q Env./Ins: EUT: M/N: AC 120V/60Hz OTG Power Rating: Test Mode: Operator: Tree

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	2135.80	48.35	4.69	28.69	44.66	74.00	-29.34	Peak
2	2135.90	48.65	4.69	28.69	44.96	54.00	-9.04	Average
3	2710.50	48.21	5.49	28.30	44.92	74.00	-29.08	Peak
4	2710.70	48.07	5.49	28.30	44.78	54.00	-9.22	Average
5	3345.40	47.79	6.35	30.42	47.62	74.00	-26.38	Peak
6	3345.50	47.58	6.35	30.42	47.41	54.00	-6.59	Average
7	4275.10	44.98	7.37	32.39	48.04	74.00	-25.96	Peak
8	4275.20	44.83	7.37	32.39	47.89	54.00	-6.11	Average
9	4765.50	45.54	7.66	33.21	49.96	74.00	-24.04	Peak
10	4765.60	45.24	7.66	33.21	49.66	54.00	-4.34	Average
11	5455.40	44.58	8.30	34.94	51.18	74.00	-22.82	Peak
12	5455.50	44.26	8.30	34.94	50.86	54.00	-3.14	Average

VERTICAL

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: 24°C/56% Sinch TABLET ME-8Q AC 120V/60Hz OTG EUT: Power Rating: Test Mode: Operator: Tree Memo: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	1535.10	48.26	4.41	26.32	42.08	74.00	-31.92	Peak
2	1535.11	39.23	4.41	26.32	33.05	54.00	-20.95	Average
3	2805.30	37.24	5.63	28.62	34.43	54.00	-19.57	Average
4	2805.40	46.82	5.63	28.62	44.01	74.00	-29.99	Peak
5	3515.70	36.87	6.57	30.99	37.53	54.00	-16.47	Average
6	3515.90	45.82	6.57	30.99	46.48	74.00	-27.52	Peak
7	4125.10	35.42	7.28	32.51	38.40	54.00	-15.60	Average
8	4125.20	44.72	7.28	32.51	47.70	74.00	-26.30	Peak
9	4845.30	43.94	7.71	33.41	48.63	74.00	-25.37	Peak
10	4845.40	34.45	7.71	33.41	39.14	54.00	-14.86	Average
11	5300.00	33.60	8.13	34.55	39.71	54.00	-14.29	Average
12	5300.20	43.06	8.13 	34.55	49.17	74.00	-24.83	Peak

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

## 7. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):


Belong to the tested device:

Product description : 8inch TABLET

Model name : ME-8Q

Remark: No additional models were tested.

-----THE END OF REPORT-----