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Report No.: EBO1506012-E289  
Page: 1 of 23

## FCC REPORT

**Applicant:** VISUAL LAND INC.

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

### Equipment Under Test (EUT)

**Product Name:** 8inch TABLET

**Trade Mark:** VISUAL LAND

**Model No.:** ME-8QL

**FCC ID:** SI9PRESTIGE8QL

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

**Date of sample receipt:** June 8, 2015

**Date of Test:** June 8, 2015 To June 22, 2015

**Date of report issued:** June 22, 2015

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Kevin Yu  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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## 2 Version

Version No.	Date	Description
00	June 22, 2015	Original

Prepared By:



Date:

June 22, 2015

Project Engineer

Check By:



Date:

June 22, 2015

Reviewer

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

*N/A: not applicable.*

## 5 General Information

### 5.1 Client Information

Applicant:	VISUAL LAND INC.
Address of Applicant:	17785 Center Court Dr. Suite 670, Cerritos, CA 90703
Manufacturer:	VISUAL LAND INC.
Address of Manufacturer:	17785 Center Court Dr. Suite 670, Cerritos, CA 90703

### 5.2 General Description of EUT

Product Name:	8inch TABLET
Trade Mark:	VISUAL LAND
Model No.:	ME-8QL
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral Antenna
Antenna gain:	0.6dBi (declare by Applicant)
Power supply:	DC 5V, 2000mA Or DC 3.7V, 3500mAh Li-ion Battery Adapter: Model:K-E30502000U1 Input:100-240V~,50/60Hz,0.35A Output:5Vdc, 2000mA

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

### 5.3 Test mode

Transmitting mode	Keep the Bluetooth in continuously transmitting mode
<p><i>Remark: 1. During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i></p> <p><i>2. Worst case GFSK modulation</i></p>	

#### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	96.34	97.16	95.62

#### Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":  
Y axis (see the test setup photo)

### 5.4 Description of Support Units

None.

### 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

### 5.7 Other Information Requested by the Customer

None.

## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2014	Mar. 28 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	July 01 2014	June 30 2015
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2015	Mar. 26 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2015	Mar. 26 2016
11	Coaxial Cable	GTS	N/A	GTS210	Mar. 27 2015	Mar. 26 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2015	Mar. 26 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2015	Mar. 26 2016
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015

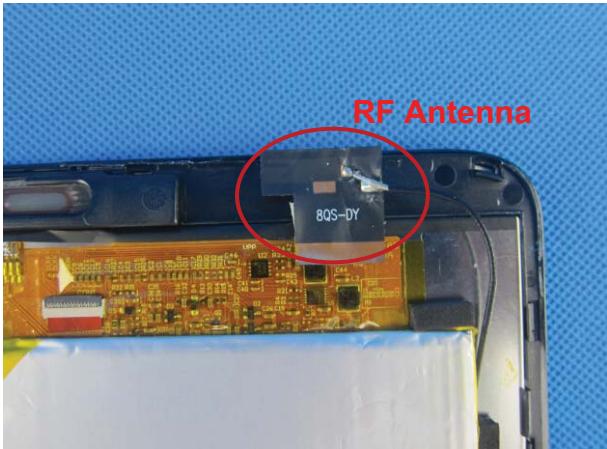
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30, 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015

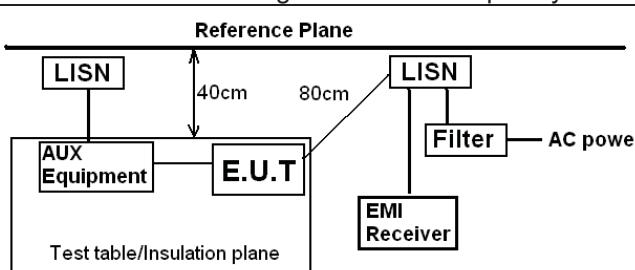
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## 7 Test results and Measurement Data

### 7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<b>15.203 requirement:</b>	
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>E.U.T Antenna:</b>	
<i>The antenna is Integral antenna, the best case gain of the antenna is 0.6dBi</i>	
	

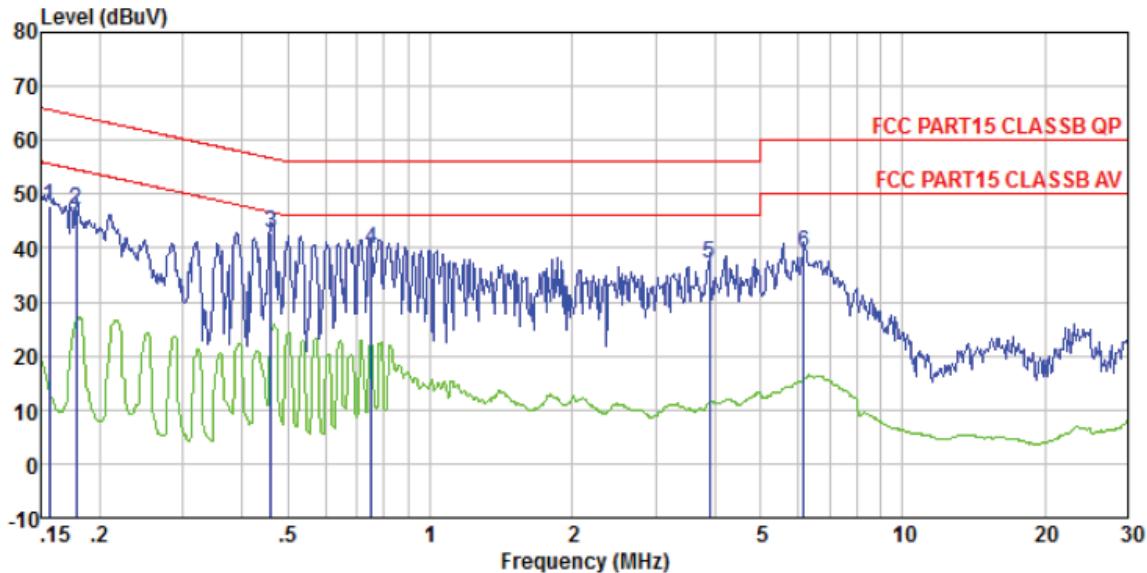
## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.4:2014																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	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.																
Test setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test procedure:	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2014 on conducted measurement.</li> </ol>																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Pass																

### Measurement data:

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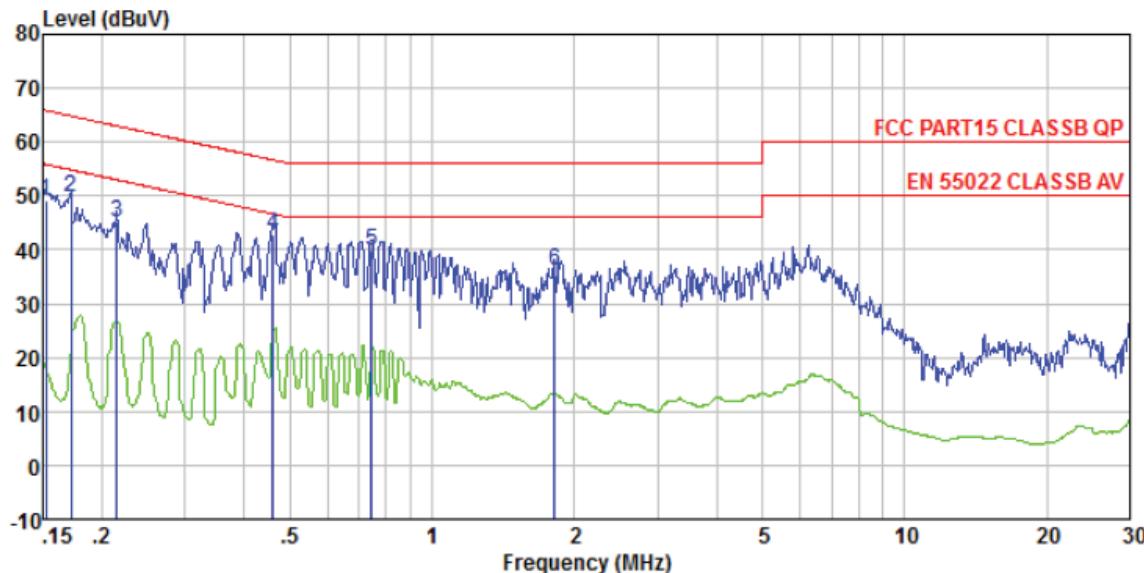
Test mode:	Bluetooth mode		LINE
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Site : Shielded room  
Condition: FCC PART15 CLASSB QP LISN-2013 LINE

	Read Freq	Cable Level	LISN Loss	Level Factor	Limit Level	Over Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	47.51	0.12	0.15	47.78	65.65	-17.87	QP
2	0.179	46.69	0.13	0.14	46.96	64.55	-17.59	QP
3	0.461	42.61	0.11	0.12	42.84	56.67	-13.83	QP
4	0.751	39.65	0.13	0.14	39.92	56.00	-16.08	QP
5	3.901	36.78	0.15	0.20	37.13	56.00	-18.87	QP
6	6.186	38.63	0.16	0.23	39.02	60.00	-20.98	QP

Test mode:	Bluetooth mode	NEUTRAL
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Site : Shielded room

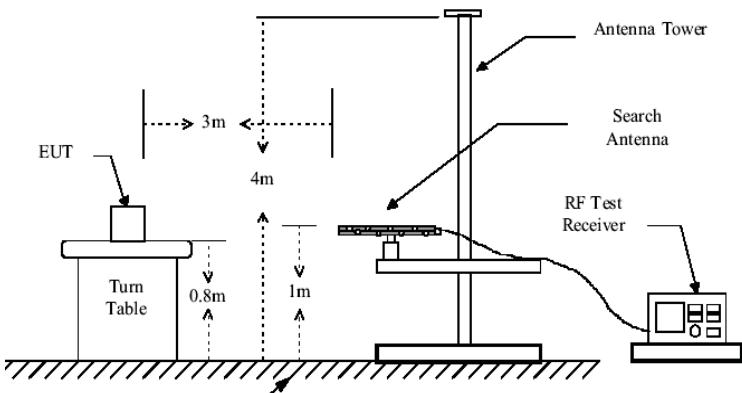
Condition: FCC PART15 CLASSB QP LISN-2013 NEUTRAL

	Read Freq	Cable Level	LISN Loss Factor	Line Level	Limit Line	Over Line Limit	Remark
	MHz	dBuV		dB	dBuV	dBuV	dB
1	0.152	48.88	0.12	0.07	49.07	65.87	-16.80 QP
2	0.172	49.71	0.12	0.07	49.90	64.86	-14.96 QP
3	0.215	44.87	0.13	0.06	45.06	63.01	-17.95 QP
4	0.461	42.55	0.11	0.06	42.72	56.67	-13.95 QP
5	0.743	39.67	0.13	0.07	39.87	56.00	-16.13 QP
6	1.819	36.00	0.14	0.09	36.23	56.00	-19.77 QP

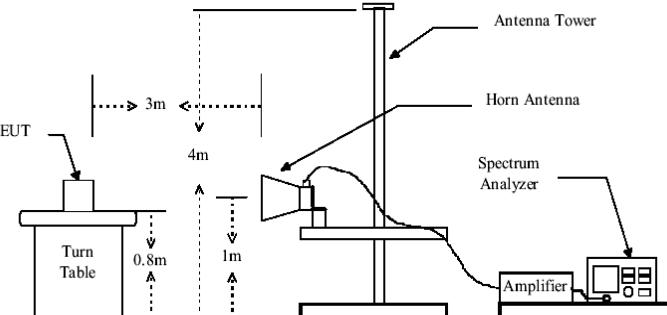
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

### 7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	30MHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
Limit: (Field strength of the fundamental signal)		Peak	1MHz	10Hz	Average Value			
Frequency	Limit (dBuV/m @3m)		Remark					
2400MHz-2483.5MHz	94.00		Average Value					
	Limit: (Spurious Emissions)		114.00		Peak Value			
Frequency	Limit (dBuV/m @3m)		Remark					
30MHz-88MHz	40.00		Quasi-peak Value					
88MHz-216MHz	43.50		Quasi-peak Value					
216MHz-960MHz	46.00		Quasi-peak Value					
960MHz-1GHz	54.00		Quasi-peak Value					
Above 1GHz	54.00		Average Value					
	Limit: (band edge)		74.00		Peak Value			
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.								
Test setup:								
							<p>Below 1GHz</p>  <p>Above 1GHz</p>	

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Test Procedure:	<ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li></ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

**Measurement data:**

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### 7.3.1 Field Strength of The Fundamental Signal

**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	92.90	27.58	5.39	30.18	95.69	114.00	-18.31	Vertical
2402.00	90.17	27.58	5.39	30.18	92.96	114.00	-21.04	Horizontal
2441.00	91.13	27.55	5.43	30.06	94.05	114.00	-19.95	Vertical
2441.00	89.15	27.55	5.43	30.06	92.07	114.00	-21.93	Horizontal
2480.00	94.10	27.52	5.47	29.93	97.16	114.00	-16.84	Vertical
2480.00	90.82	27.52	5.47	29.93	93.88	114.00	-20.12	Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	81.98	27.58	5.39	30.18	84.77	94.00	-9.23	Vertical
2402.00	79.32	27.58	5.39	30.18	82.11	94.00	-11.89	Horizontal
2441.00	80.05	27.55	5.43	30.06	82.97	94.00	-11.03	Vertical
2441.00	77.08	27.55	5.43	30.06	80.00	94.00	-14.00	Horizontal
2480.00	83.34	27.52	5.47	29.93	86.40	94.00	-7.60	Vertical
2480.00	79.95	27.52	5.47	29.93	83.01	94.00	-10.99	Horizontal

### 7.3.2 Spurious emissions

#### ■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
72.084	52.03	10.26	0.96	31.85	31.40	40.00	-8.60	Vertical
121.549	55.25	12.19	1.37	31.87	36.94	43.50	-6.56	Vertical
144.335	55.45	10.22	1.53	31.96	35.24	43.50	-8.26	Vertical
206.398	50.72	12.77	1.88	32.14	33.23	43.50	-10.27	Vertical
287.990	50.51	14.84	2.31	32.18	35.48	46.00	-10.52	Vertical
625.078	37.12	20.54	3.82	31.08	30.40	46.00	-15.60	Vertical
72.847	46.40	10.13	0.96	31.84	25.65	40.00	-14.35	Horizontal
143.830	48.73	10.22	1.53	31.96	28.52	43.50	-14.98	Horizontal
259.234	52.02	14.05	2.17	32.17	36.07	46.00	-9.93	Horizontal
289.002	51.40	14.84	2.31	32.18	36.37	46.00	-9.63	Horizontal
833.317	45.77	22.42	4.58	31.27	41.50	46.00	-4.50	Horizontal
155.364	48.19	10.48	1.60	32.00	28.27	43.50	-15.23	Horizontal

## ■ Above 1GHz

Test channel:	Lowest channel
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	35.07	31.78	8.60	32.09	43.36	74.00	-30.64	Vertical
7206.00	30.35	36.15	11.65	32.00	46.15	74.00	-27.85	Vertical
9608.00	30.15	37.95	14.14	31.62	50.62	74.00	-23.38	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	38.90	31.78	8.60	32.09	47.19	74.00	-26.81	Horizontal
7206.00	31.90	36.15	11.65	32.00	47.70	74.00	-26.30	Horizontal
9608.00	29.36	37.95	14.14	31.62	49.83	74.00	-24.17	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	24.30	31.78	8.60	32.09	32.59	54.00	-21.41	Vertical
7206.00	19.29	36.15	11.65	32.00	35.09	54.00	-18.91	Vertical
9608.00	18.50	37.95	14.14	31.62	38.97	54.00	-15.03	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.28	31.78	8.60	32.09	36.57	54.00	-17.43	Horizontal
7206.00	21.31	36.15	11.65	32.00	37.11	54.00	-16.89	Horizontal
9608.00	18.05	37.95	14.14	31.62	38.52	54.00	-15.48	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. \*\*, means this data is the too weak instrument of signal is unable to test.

Test channel:	Middle channel
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	35.87	31.85	8.67	32.12	44.27	74.00	-29.73	Vertical
7323.00	30.88	36.37	11.72	31.89	47.08	74.00	-26.92	Vertical
9764.00	30.62	38.35	14.25	31.62	51.60	74.00	-22.40	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	39.86	31.85	8.67	32.12	48.26	74.00	-25.74	Horizontal
7323.00	32.50	36.37	11.72	31.89	48.70	74.00	-25.30	Horizontal
9764.00	29.91	38.35	14.25	31.62	50.89	74.00	-23.11	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	24.96	31.85	8.67	32.12	33.36	54.00	-20.64	Vertical
7323.00	19.73	36.37	11.72	31.89	35.93	54.00	-18.07	Vertical
9764.00	18.90	38.35	14.25	31.62	39.88	54.00	-14.12	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	29.03	31.85	8.67	32.12	37.43	54.00	-16.57	Horizontal
7323.00	21.81	36.37	11.72	31.89	38.01	54.00	-15.99	Horizontal
9764.00	18.51	38.35	14.25	31.62	39.49	54.00	-14.51	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. \*\*\*, means this data is the too weak instrument of signal is unable to test.

Test channel:	Highest channel							
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.97	31.93	8.73	32.16	44.47	74.00	-29.53	Vertical
7440.00	30.94	36.59	11.79	31.78	47.54	74.00	-26.46	Vertical
9920.00	30.68	38.81	14.38	31.88	51.99	74.00	-22.01	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.98	31.93	8.73	32.16	48.48	74.00	-25.52	Horizontal
7440.00	32.58	36.59	11.79	31.78	49.18	74.00	-24.82	Horizontal
9920.00	29.97	38.81	14.38	31.88	51.28	74.00	-22.72	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.08	31.93	8.73	32.16	33.58	54.00	-20.42	Vertical
7440.00	19.81	36.59	11.79	31.78	36.41	54.00	-17.59	Vertical
9920.00	18.97	38.81	14.38	31.88	40.28	54.00	-13.72	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.17	31.93	8.73	32.16	37.67	54.00	-16.33	Horizontal
7440.00	21.90	36.59	11.79	31.78	38.50	54.00	-15.50	Horizontal
9920.00	18.59	38.81	14.38	31.88	39.90	54.00	-14.10	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. \*\*\*, means this data is the too weak instrument of signal is unable to test.

## 7.3.3 Bandedge emissions

*All of the restriction bands were tested, and only the data of worst case was exhibited.*

Test channel:	Lowest channel							
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	44.24	27.59	5.38	30.18	47.03	74.00	-26.97	Horizontal
2400.00	61.23	27.58	5.39	30.18	64.02	74.00	-9.98	Horizontal
2390.00	44.92	27.59	5.38	30.18	47.71	74.00	-26.29	Vertical
2400.00	63.41	27.58	5.39	30.18	66.20	74.00	-7.80	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.48	27.59	5.38	30.18	37.27	54.00	-16.73	Horizontal
2400.00	45.80	27.58	5.39	30.18	48.59	54.00	-5.41	Horizontal
2390.00	34.53	27.59	5.38	30.18	37.32	54.00	-16.68	Vertical
2400.00	47.58	27.58	5.39	30.18	50.37	54.00	-3.63	Vertical

Test channel:	Highest channel							
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.51	27.53	5.47	29.93	49.58	74.00	-24.42	Horizontal
2500.00	45.42	27.55	5.49	29.93	48.53	74.00	-25.47	Horizontal
2483.50	47.58	27.53	5.47	29.93	50.65	74.00	-23.35	Vertical
2500.00	46.55	27.55	5.49	29.93	49.66	74.00	-24.34	Vertical

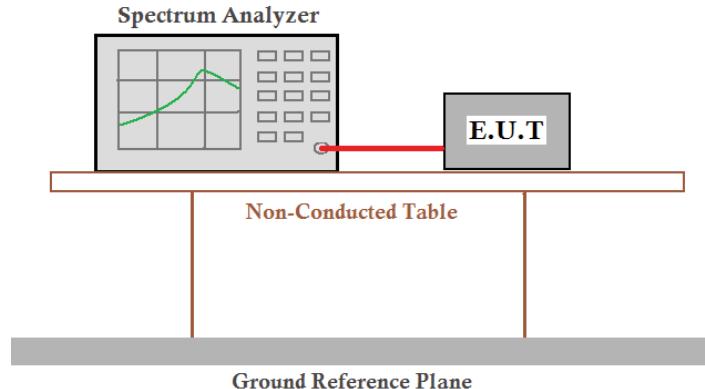
**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.33	27.53	5.47	29.93	40.40	54.00	-13.60	Horizontal
2500.00	35.13	27.55	5.49	29.93	38.24	54.00	-15.76	Horizontal
2483.50	38.65	27.53	5.47	29.93	41.72	54.00	-12.28	Vertical
2500.00	35.17	27.55	5.49	29.93	38.28	54.00	-15.72	Vertical

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

## 7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2014
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

#### Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	0.897	Pass
Middle	0.895	Pass
Highest	0.894	Pass

Test plot as follows:



Lowest channel



Middle channel



Highest channel

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## 8 Test Setup Photo

Refer to test setup photos.

## 9 EUT Constructional Details

Refer to EUT external and internal photos.

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