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Report No.: EBO1707001-E149

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FCC REPORT

Applicant: GUANGDONG SIRUI OPTICAL CO., LTD

Address of Applicant: The Third Industrial Zone, Wuguishan Town, Zhongshan City,

Guangdong, China

Equipment Under Test (EUT)

Product Name: REMOTE CONTROL TERMINAL

Model No.: BP360-01B

FCC ID: 2AMTDBP360-01B

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016

Date of sample receipt: July 3, 2017

Date of Test: July 3, 2017 to July 13, 2017

Date of report issued: July 13, 2017

Test Result: PASS *

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.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Version No.	Date	Description
00	July 13, 2017	Original

Prepared by:	Jason	Date:	July 13, 2017
	Project Engineer		
Reviewed by:	Cenyv	Date:	July 13, 2017



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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.

Remark: Test according to ANSI C63.4 2014 and ANSI C63.10 2013.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission 0.15MHz ~ 30MHz		± 3.45dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of ka	=2 and a level of confidence of	95%.



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5 General Information

5.1 Client Information

Applicant:	GUANGDONG SIRUI OPTICAL CO., LTD
Address of Applicant:	The Third Industrial Zone, Wuguishan Town, Zhongshan City, Guangdong, China
Manufacturer/Factory:	GUANGDONG SIRUI OPTICAL CO., LTD
Address of Manufacturer/Factory:	The Third Industrial Zone, Wuguishan Town, Zhongshan City, Guangdong, China

5.2 General Description of EUT

Product Name:	REMOTE CONTROL TERMINAL
Model No.:	BP360-01B
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 3.7V, 450mAh Polymer Li-ion Battery

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Operation Frequency each of channel							
Channel	Channel Frequency Channel		Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz 11		2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
. !	• !		•	• !	•	• !	•
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

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	2440MHz
The Highest channel	2480MHz



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5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, 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.

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	Х	Y	Z
Field Strength(dBuV/m)	83.14	89.45	85.02

5.4 Description of Support Units

Manufacturer Description		Model	Serial Number	
DELTA	ADAPTER	ADP-60ADT	N/A	

5.5 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly 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

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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	1 3m Semi- Anechoic Chamber ZhongYu Electron		9.2(L)*6.2(W)* 6.4(H)	250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	203	June. 29 2017	June. 28 2018	
4	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	214	June. 29 2017	June. 28 2018	
5	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	208	June. 29 2017	June. 28 2018	
6	Horn Antenna	ETS-LINDGREN	3160	217	June. 29 2017	June. 28 2018	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	213	June. 29 2017	June. 28 2018	
9	Coaxial Cable	GTS	N/A	211	June. 29 2017	June. 28 2018	
10	Coaxial cable	GTS	N/A	210	June. 29 2017	June. 28 2018	
11	Coaxial Cable	GTS	N/A	212	June. 29 2017	June. 28 2018	
12	Amplifier(100kHz- 3GHz)	HP	8347A	204	June. 29 2017	June. 28 2018	
13	Amplifier(2GHz- 20GHz)	HP	8349B	206	June. 29 2017	June. 28 2018	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	218	June. 29 2017	June. 28 2018	
15	Band filter	Amindeon	82346	219	June. 29 2017	June. 28 2018	
16	16 Constant temperature and humidity box Oregon Scientific		BA-888	248	June. 29 2017	June. 28 2018	
17	D.C. Power Supply	Instek	PS-3030	232	June. 29 2017	June. 28 2018	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	588	June. 29 2017	June. 28 2018	
19	Splitter	Agilent	11636B	237	June. 29 2017	June. 28 2018	



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Distu	rbance voltages:					
Item	tem 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)	252	Jul. 02 2017	Jul. 01 2018
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	223	Jul. 02 2017	Jul. 01 2018
3	10dB Pulse Limita	Rohde & Schwarz	N/A	224	Jul. 02 2017	Jul. 01 2018
4	Coaxial Switch	ANRITSU CORP	MP59B	225	Jul. 02 2017	Jul. 01 2018
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	226	Jul. 02 2017	Jul. 01 2018
6	Coaxial Cable	GTS	N/A	227	Jul. 02 2017	Jul. 01 2018
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Thermo meter	KTJ	TA328	233	Jul. 02 2017	Jul. 01 2018

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7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is Ceramic antenna, the best case gain of the antenna is 0dBi

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7.2 Conducted Emissions

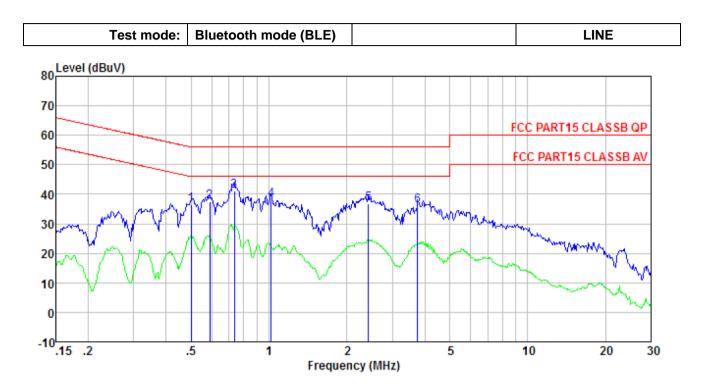
Test Requirement:	FCC Part15 C Section 15.207	7								
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	150KHz to 30MHz									
Class / Severity:	Class B									
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto								
Limit:	F	Limit (c	dBuV)							
	Frequency range (MHz)	Quasi-peak	Average							
	0.15-0.5	66 to 56*	56 to 46*							
	0.5-5 56 46									
	5-30	60	50							
	* Decreases with the logarithr	n of the frequency.								
Test setup:	Reference Plane	:	_							
Toot procedure	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m									
Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohr termination. (Please refer the photographs). 	n network (L.I.S.N.). The edance for the measuri also connected to the m/50uH coupling imped	nis provides a ing equipment. main power through a dance with 50ohm							
	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 C63.10:2013 on conducted measurement.									
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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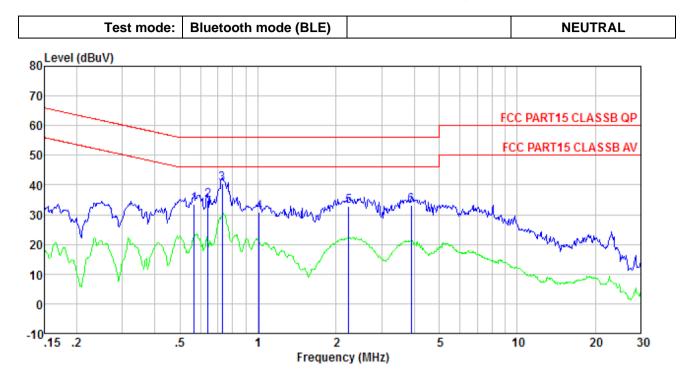
	Freq		LISN Factor			Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBu₹	dBuV	dB	
1 2 3 4 5 6		40.74 37.91 36.50	0.31 0.28 0.25 0.20	0.13 0.13	37. 40 41. 15 38. 29 36. 85	56.00 56.00 56.00 56.00	-18.60 -14.85 -17.71 -19.15	QP QP QP QP

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	Freq		LISN Factor				Over Limit	Remark
	MHz	dBu₹	dB	dB	dBuV	dBu₹	dB	
1 2 3 4 5	0.641 0.727 1.010 2.237	40.01 30.56 32.63	0.26 0.24 0.21	0.13 0.13 0.15	34. 87 40. 38 30. 90 32. 98	56.00 56.00 56.00 56.00	-21.13 -15.62 -25.10 -23.02	QP QP QP 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.

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7.3 Radiated Emission Method

7.3	Radiated Emission We	tiioa				
	Test Requirement:	FCC Part15 C S	Section 15.20	9		
	Test Method:	ANSI C63.10:20	013			
	Test Frequency Range:	30MHz to 25GH	Ηz			
	Test site:	Measurement D	Distance: 3m			
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark
		30MHz- 1GHz	Quasi-pea	k 120Kł	lz 300KHz	Quasi-peak Value
		Ab 21.2 4011-	Peak	1MH	z 3MHz	Peak Value
		Above 1GHz	Peak	1MH	z 10Hz	Average Value
	Limit:	Freque	ency	Limit (dE	uV/m @3m)	Remark
	(Field strength of the fundamental signal)	2400MHz-24	183.5MHz	g	4.00	Average Value
	Limit:	Freque	ency	uV/m @3m)	Remark	
	(Spurious Emissions)	30MHz-8	8MHz	4	0.00	Quasi-peak Value
	(0)	88MHz-2			3.50	Quasi-peak Value
		216MHz-9			6.00	Quasi-peak Value
		960MHz-	-1GHz		4.00	Quasi-peak Value
		Above 1	IGHz		4.00 4.00	Average Value Peak Value
	Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at lead	ast 50 dB belo	w bands, except for the level of the s in Section 15.209,
	Test setup:	EUT	4m 4m 0.8m		Se	arch eenna
		ADOVE TOTIZ				



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	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m Amplifier
Test Procedure:	The EUT was placed on the top of a rotating table 0.8m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 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.
	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.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.
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	90.21	27.58	5.39	34.01	89.17	114.00	-24.83	Vertical
2402.00	85.17	27.58	5.39	34.01	84.13	114.00	-29.87	Horizontal
2440.00	90.50	27.48	5.43	33.96	89.45	114.00	-24.55	Vertical
2440.00	84.60	27.48	5.43	33.96	83.55	114.00	-30.45	Horizontal
2480.00	89.59	27.52	5.47	33.92	88.66	114.00	-25.34	Vertical
2480.00	83.83	27.52	5.47	33.92	82.90	114.00	-31.10	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	80.53	27.58	5.39	34.01	79.49	94.00	-14.51	Vertical
2402.00	75.50	27.58	5.39	34.01	74.46	94.00	-19.54	Horizontal
2440.00	80.53	27.48	5.43	33.96	79.48	94.00	-14.52	Vertical
2440.00	74.00	27.48	5.43	33.96	72.95	94.00	-21.05	Horizontal
2480.00	79.55	27.52	5.47	33.92	78.62	94.00	-15.38	Vertical
2480.00	74.17	27.52	5.47	33.92	73.24	94.00	-20.76	Horizontal

Note: RBW 3MHz VBW 3MHz Peak detector is for PK value, RMS detector is for AV value

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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
37.945	32.48	12.3	0.64	30.1	15.32	40	-24.68	Vertical
95.762	31.64	11.35	1.16	29.82	14.33	43.5	-29.17	Vertical
102.36	32.79	12.1	1.21	29.79	16.31	43.5	-27.19	Vertical
185.788	35.61	9.1	1.77	29.46	17.02	43.5	-26.48	Vertical
207.123	42.18	10.49	1.88	29.45	25.1	43.5	-18.4	Vertical
219.075	33.14	10.88	1.95	29.55	16.42	46	-29.58	Vertical
42.6	27.84	12.27	0.69	30.1	10.7	40	-29.3	Horizontal
94.76	30.88	11.35	1.15	29.84	13.54	43.5	-29.96	Horizontal
98.487	32.54	11.73	1.18	29.8	15.65	43.5	-27.85	Horizontal
103.442	31.7	11.8	1.22	29.79	14.93	43.5	-28.57	Horizontal
207.123	27.58	10.49	1.88	29.45	10.5	43.5	-33	Horizontal
275.157	30.38	12.72	2.25	30.01	15.34	46	-30.66	Horizontal



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■ Above 1GHz

Test channe	l:			Low	est channel			
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	37.48	31.78	8.60	32.09	45.77	74.00	-28.23	Vertical
7206.00	31.95	36.15	11.65	32.00	47.75	74.00	-26.25	Vertical
9608.00	31.57	37.95	14.14	31.62	52.04	74.00	-21.96	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.80	31.78	8.60	32.09	50.09	74.00	-23.91	Horizontal
7206.00	33.72	36.15	11.65	32.00	49.52	74.00	-24.48	Horizontal
9608.00	31.01	37.95	14.14	31.62	51.48	74.00	-22.52	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	uo.							
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	26.26	31.78	8.60	32.09	34.55	54.00	-19.45	Vertical
7206.00	20.61	36.15	11.65	32.00	36.41	54.00	-17.59	Vertical
9608.00	19.68	37.95	14.14	31.62	40.15	54.00	-13.85	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.51	31.78	8.60	32.09	38.80	54.00	-15.20	Horizontal
7206.00	22.80	36.15	11.65	32.00	38.60	54.00	-15.40	Horizontal
9608.00	19.42	37.95	14.14	31.62	39.89	54.00	-14.11	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. "*", means this data is the too weak instrument of signal is unable to test.

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54.00

54.00

Horizontal

Horizontal

Test channel	l:			Mid	dle			
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
4880.00	36.86	31.85	8.67	32.12	45.26	74.00	-28.74	Vertical
7320.00	31.53	36.37	11.72	31.89	47.73	74.00	-26.27	Vertical
9760.00	31.20	38.35	14.25	31.62	52.18	74.00	-21.82	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.05	31.85	8.67	32.12	49.45	74.00	-24.55	Horizontal
7320.00	33.25	36.37	11.72	31.89	49.45	74.00	-24.55	Horizontal
9760.00	30.58	38.35	14.25	31.62	51.56	74.00	-22.44	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:							
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
4880.00	25.77	31.85	8.67	32.12	34.17	54.00	-19.83	Vertical
7320.00	20.28	36.37	11.72	31.89	36.48	54.00	-17.52	Vertical
9760.00	19.38	38.35	14.25	31.62	40.36	54.00	-13.64	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	29.95	31.85	8.67	32.12	38.35	54.00	-15.65	Horizontal
7320.00	22.42	36.37	11.72	31.89	38.62	54.00	-15.38	Horizontal
9760.00	19.07	38.35	14.25	31.62	40.05	54.00	-13.95	Horizontal

14640.00 Remark:

12200.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

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54.00

Horizontal

Test channel	el: Highest							
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	35.71	31.93	8.73	32.16	44.21	74.00	-29.79	Vertical
7440.00	30.78	36.59	11.79	31.78	47.38	74.00	-26.62	Vertical
9920.00	30.53	38.81	14.38	31.88	51.84	74.00	-22.16	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.68	31.93	8.73	32.16	48.18	74.00	-25.82	Horizontal
7440.00	32.39	36.59	11.79	31.78	48.99	74.00	-25.01	Horizontal
9920.00	29.80	38.81	14.38	31.88	51.11	74.00	-22.89	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:							
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	24.87	31.93	8.73	32.16	33.37	54.00	-20.63	Vertical
7440.00	19.67	36.59	11.79	31.78	36.27	54.00	-17.73	Vertical
9920.00	18.84	38.81	14.38	31.88	40.15	54.00	-13.85	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	28.92	31.93	8.73	32.16	37.42	54.00	-16.58	Horizontal
7440.00	21.74	36.59	11.79	31.78	38.34	54.00	-15.66	Horizontal
9920.00	18.44	38.81	14.38	31.88	39.75	54.00	-14.25	Horizontal
12400.00	*					54.00		Horizontal

Remark:

14880.00

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

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7.3.3 Bandedge emissions

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

Test channe	Test channel: Lowest channel							
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	41.61	27.59	5.38	30.18	44.40	74.00	-29.60	Horizontal
2400.00	44.22	27.58	5.39	30.18	47.01	74.00	-26.99	Horizontal
2390.00	42.04	27.59	5.38	30.18	44.83	74.00	-29.17	Vertical
2400.00	46.12	27.58	5.39	30.18	48.91	74.00	-25.09	Vertical
Average va	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	32.45	27.59	5.38	30.18	35.24	54.00	-18.76	Horizontal
2400.00	33.61	27.58	5.39	30.18	36.40	54.00	-17.60	Horizontal
2390.00	32.30	27.59	5.38	30.18	35.09	54.00	-18.91	Vertical
2400.00	35.14	27.58	5.39	30.18	37.93	54.00	-16.07	Vertical
Test channel:				Hiç	ghest channe	el		
Peak value:								
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	Polarization

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	43.57	27.53	5.47	29.93	46.64	74.00	-27.36	Horizontal
2500.00	42.98	27.55	5.49	29.93	46.09	74.00	-27.91	Horizontal
2483.50	44.20	27.53	5.47	29.93	47.27	74.00	-26.73	Vertical
2500.00	43.86	27.55	5.49	29.93	46.97	74.00	-27.03	Vertical

Average value:

g								
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	35.26	27.53	5.47	29.93	38.33	54.00	-15.67	Horizontal
2500.00	33.44	27.55	5.49	29.93	36.55	54.00	-17.45	Horizontal
2483.50	36.37	27.53	5.47	29.93	39.44	54.00	-14.56	Vertical
2500.00	33.26	27.55	5.49	29.93	36.37	54.00	-17.63	Vertical

Remark:

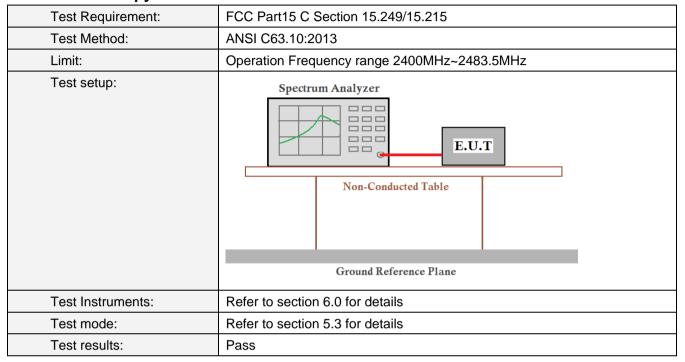
^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



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7.4 20dB Occupy Bandwidth



Measurement Data

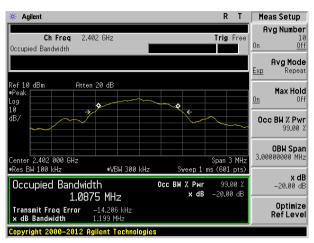
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.199	Pass
Middle	1.195	Pass
Highest	1.199	Pass

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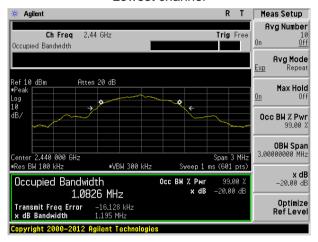


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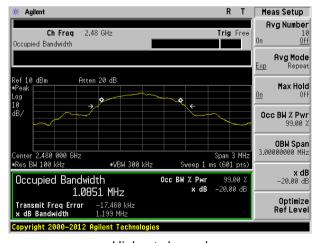
Test plot as follows:



Lowest channel



Middle channel



Highest channel



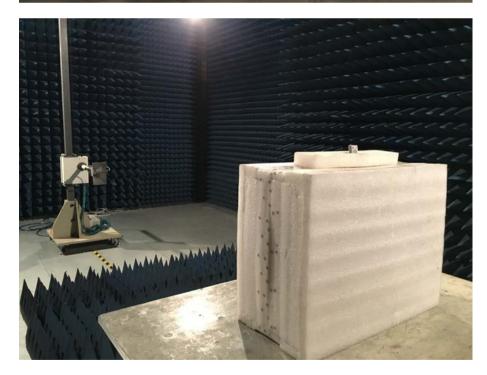
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8 Test Setup Photo

Radiated Emission







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Conducted Emission





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9 EUT Constructional Details



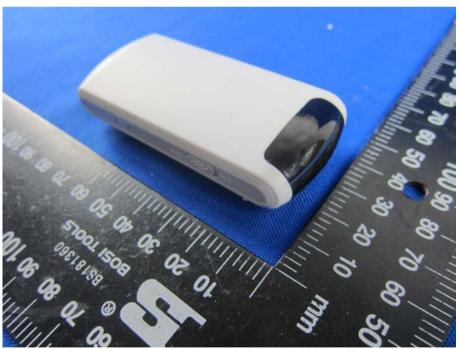




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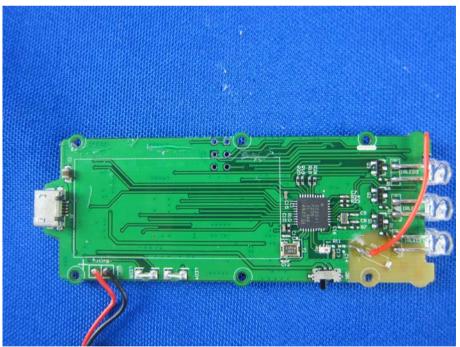




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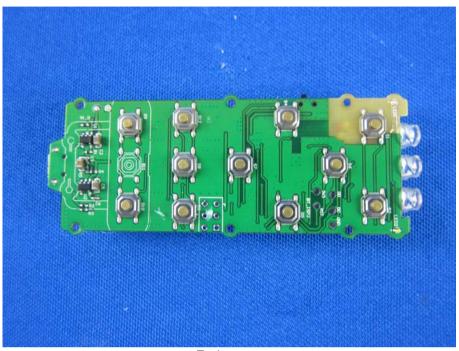






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