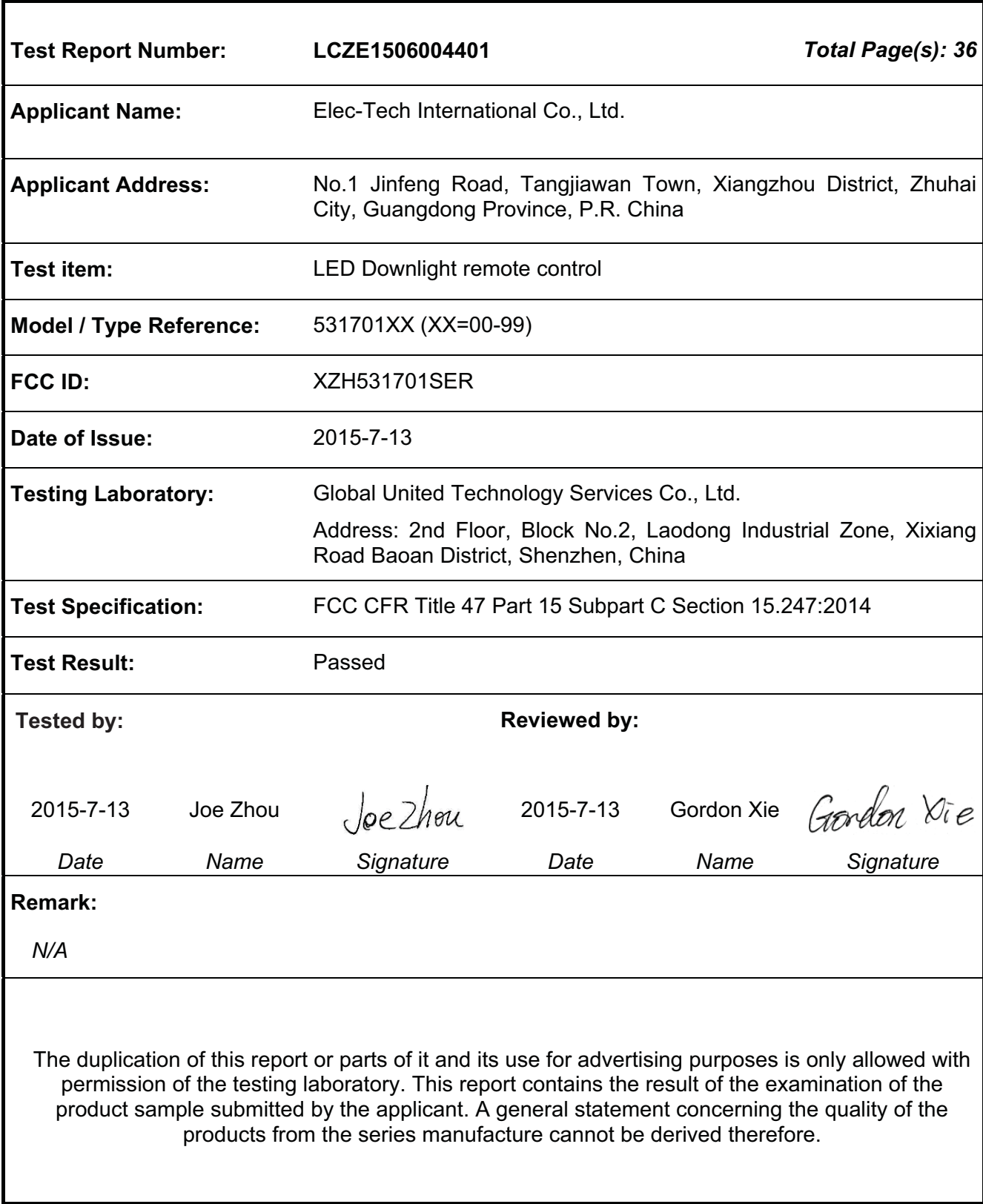




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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

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

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

4 General Information

4.1 Client Information

Applicant:	Elec-Tech International Co., Ltd.
Address of Applicant:	No.1 Jinfeng Road, Tangjiawan Town, Xiangzhou District, Zhuhai City, Guangdong Province, P.R. China
Manufacturer:	Elec-Tech International Co., Ltd.
Address of Manufacturer:	No.1 Jinfeng Road, Tangjiawan Town, Xiangzhou District, Zhuhai City, Guangdong Province, P.R. China

4.2 General Description of EUT

Product Name:	LED Downlight remote control
Model No.:	531701XX (XX=00-99)
Operation Frequency:	2405MHz~2480MHz
Channel numbers:	16
Channel separation:	5MHz
Modulation type:	O-QPSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Power supply:	AC 120V/60Hz

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2405MHz	5	2425MHz	9	2445MHz	13	2465MHz
2	2410MHz	6	2430MHz	10	2450MHz	14	2470MHz
3	2415MHz	7	2435MHz	11	2455MHz	15	2475MHz
4	2420MHz	8	2440MHz	12	2460MHz	16	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	2405MHz
The middle channel	2440MHz
The Highest channel	2480MHz

4.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: 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>	

4.4 Description of Support Units

N/A

4.5 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 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.

4.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480

Fax: 0755-27798960

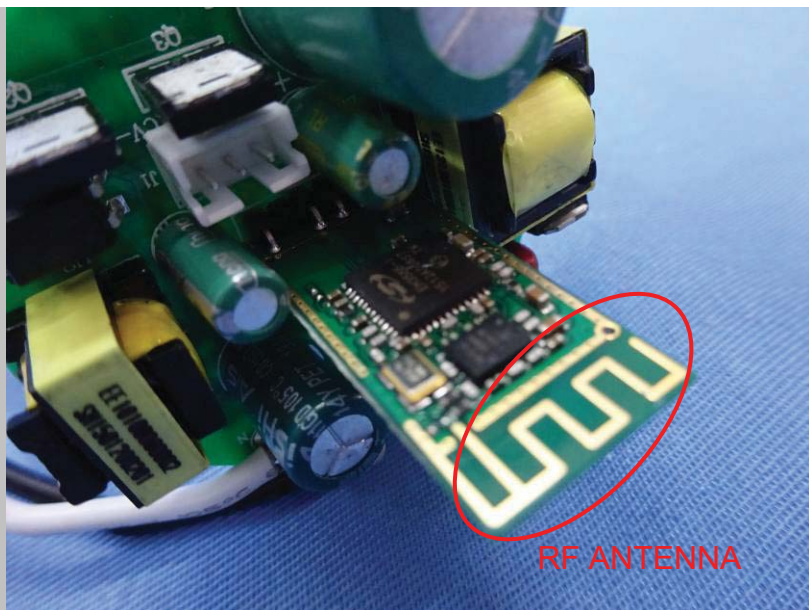
5 Test Instruments list

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. 28 2015	Mar. 27 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	Dec. 04 2014	Dec. 03 2015
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015	Jun. 29 2016
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015	Feb. 21 2016
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2015	Mar. 27 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015	Jun. 29 2016
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015	Jun. 29 2016
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016

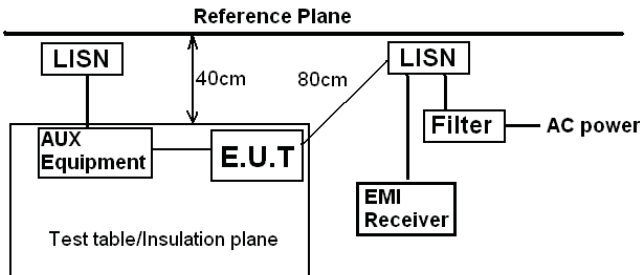
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 06 2014	Sep. 05 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement

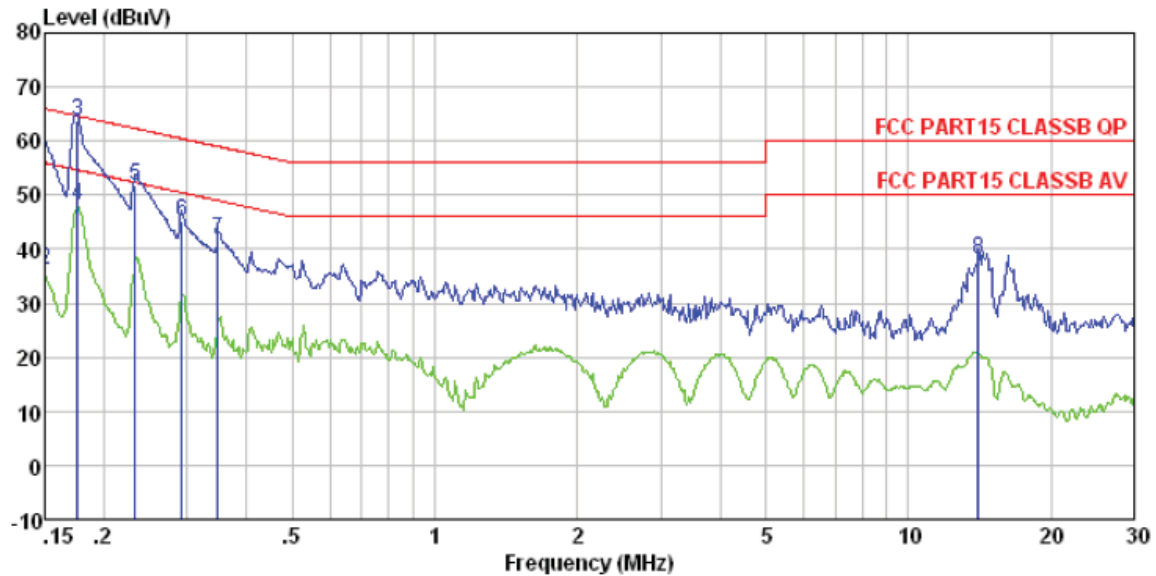
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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:	
<i>The antenna is PCB Antenna, the best case gain of the antenna is 0dBi</i> 	

6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto		
Limit:	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:			
	Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test procedure:	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. 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). 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 5.0 for details		
Test mode:	Refer to section 4.3 for details		
Test results:	Pass		

Measurement data:

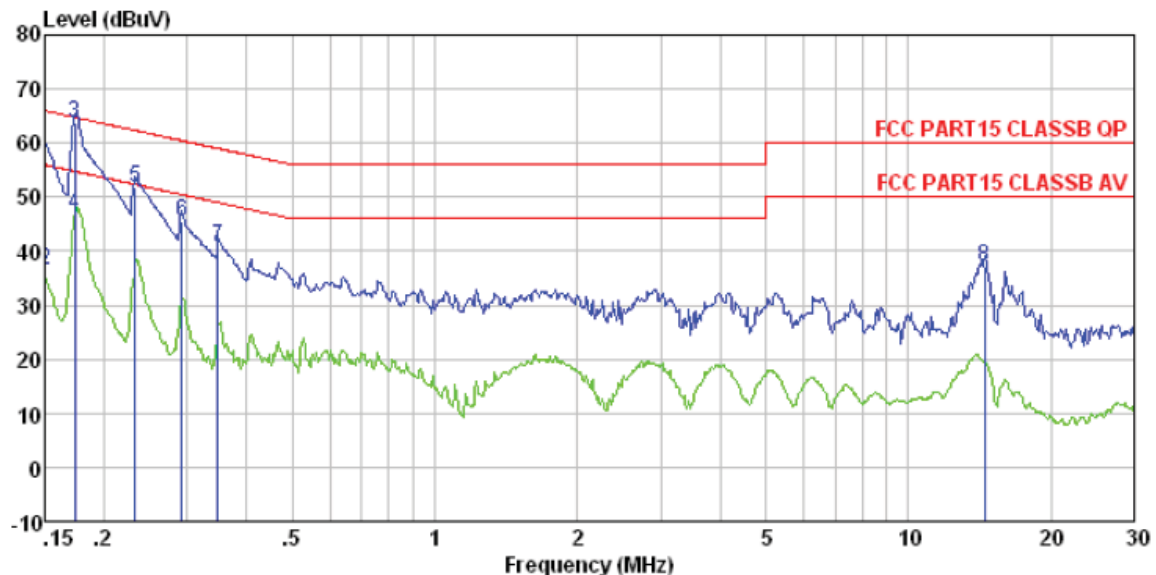
Test mode:	Transmitting mode		LINE
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Condition : FCC PART15 CLASSB QP LISN-2013 LINE
 Job No. : 1304RF
 Test mode : Transmitting mode
 Test Engineer: Song

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	57.75	0.15	0.12	58.02	66.00	-7.98	QP
2	0.150	36.02	0.15	0.12	36.29	56.00	-19.71	Average
3	0.176	63.54	0.14	0.13	63.81	64.68	-0.87	QP
4	0.176	47.78	0.14	0.13	48.05	54.68	-6.63	Average
5	0.233	51.60	0.12	0.12	51.84	62.35	-10.51	QP
6	0.292	45.07	0.11	0.10	45.28	60.46	-15.18	QP
7	0.348	41.62	0.11	0.10	41.83	59.00	-17.17	QP
8	14.063	37.65	0.29	0.22	38.16	60.00	-21.84	QP

Test mode:	Transmitting mode		NEUTRAL
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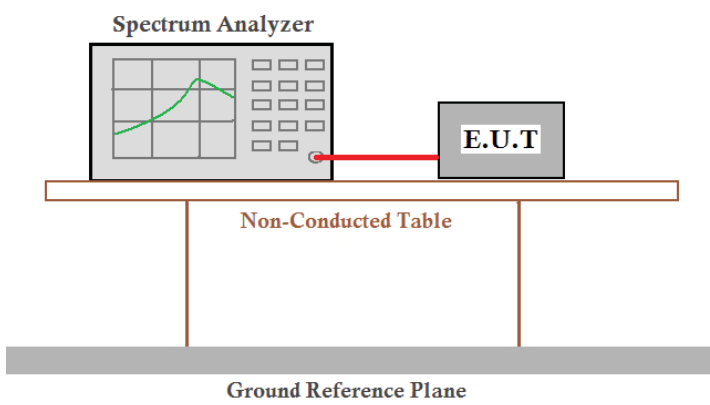
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
 Job No. : 1304RF
 Test mode : Transmitting mode
 Test Engineer: Song

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	57.96	0.07	0.12	58.15	66.00	-7.85	QP
2	0.150	36.15	0.07	0.12	36.34	56.00	-19.66	Average
3	0.174	63.57	0.07	0.13	63.77	64.77	-1.00	QP
4	0.174	46.73	0.07	0.13	46.93	54.77	-7.84	Average
5	0.233	51.53	0.06	0.12	51.71	62.35	-10.64	QP
6	0.292	45.22	0.06	0.10	45.38	60.46	-15.08	QP
7	0.348	40.61	0.06	0.10	40.77	59.00	-18.23	QP
8	14.517	36.58	0.33	0.22	37.13	60.00	-22.87	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

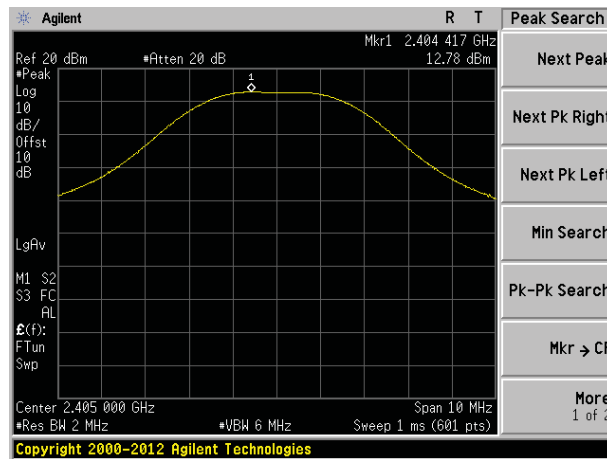
6.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

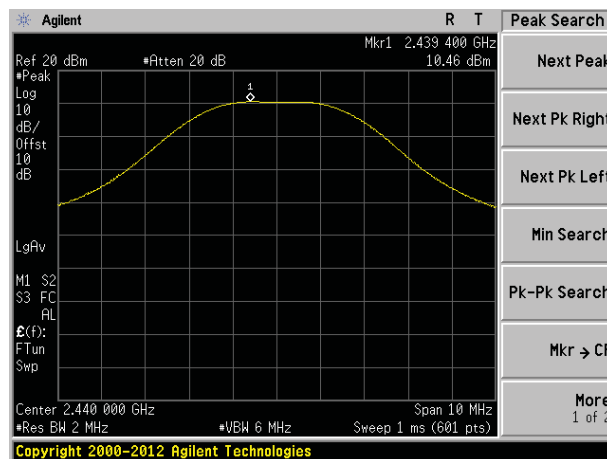
Measurement Data

Frequency (MHz)	Peak Output Power (dBm)	Limit(dBm)	Result
2405	12.78	30	PASS
2440	10.46		
2480	10.23		

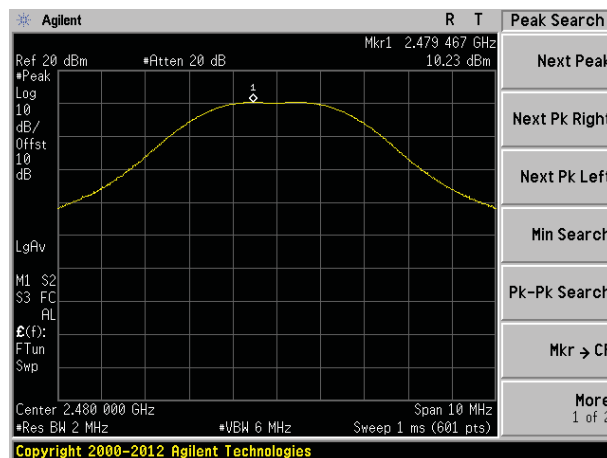
Test plot as follows:



2405MHz



2440MHz



2480MHz

LCTECH (Zhongshan) Testing Service Co.,Ltd

Add: 2/F.,Technology and Enterprise Development Center,
Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

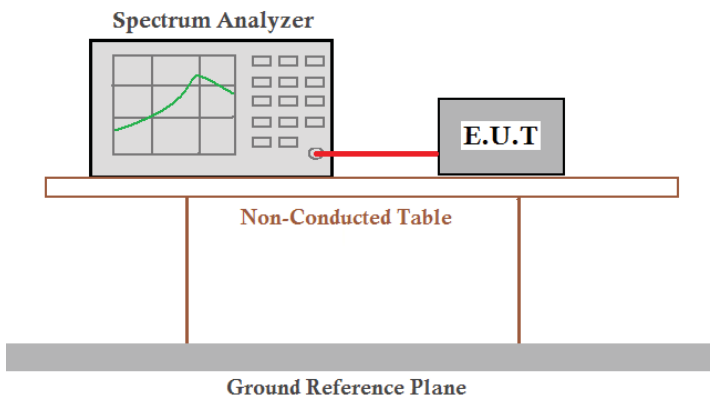
Tel:+86-760-22833366

Fax:+86-760-22833399

E-mail:Service@lccert.com

<http://www.lccert.com>

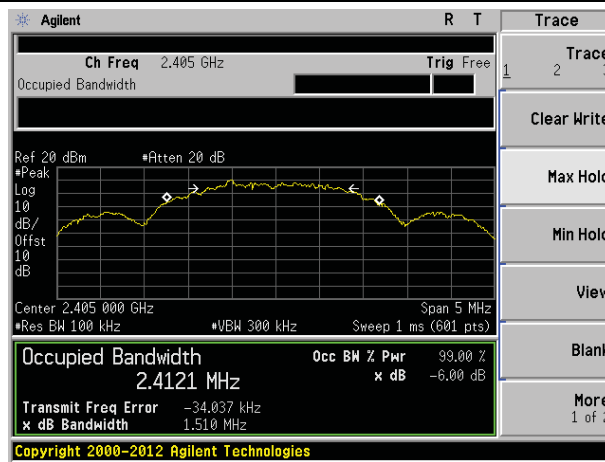
6.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

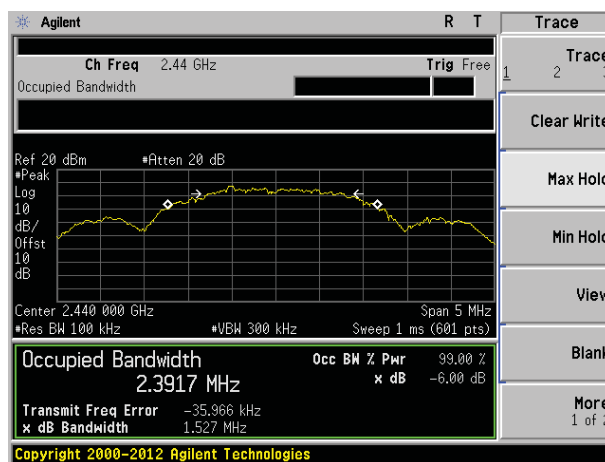
Measurement Data

Frequency (MHz)	Channel Bandwidth (MHz)	Limit(KHz)	Result
2405	1.510	>500	Pass
2440	1.527		
2480	1.522		

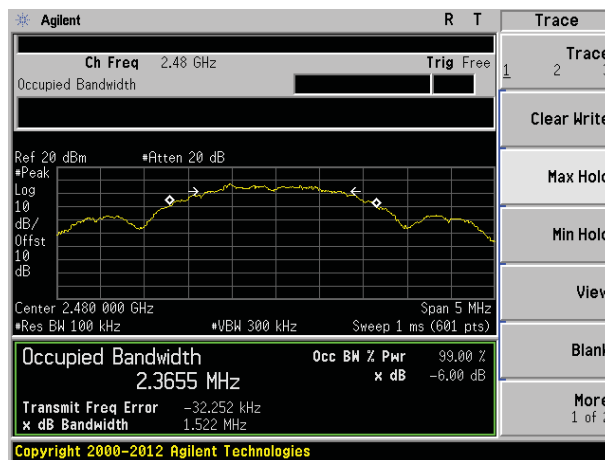
Test plot as follows:



2405MHz

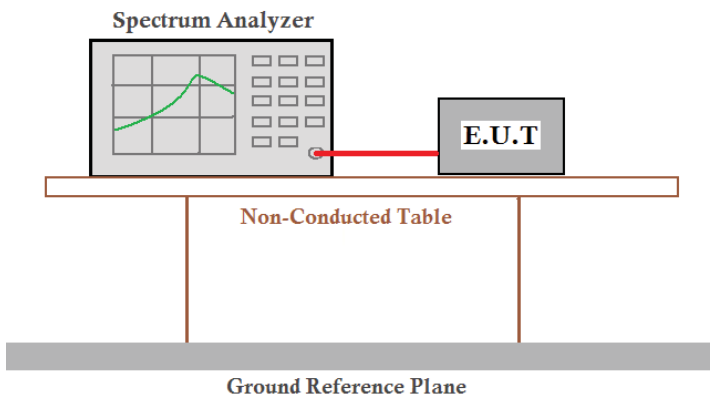


2440MHz



2480MHz

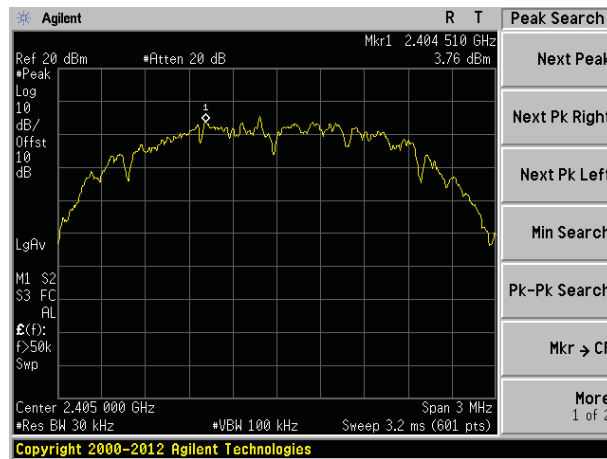
6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

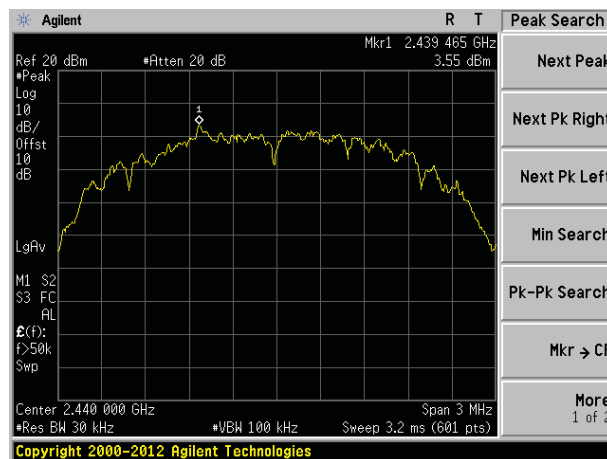
Measurement Data

Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result
2405	3.76	8.00	Pass
2440	3.55		
2480	3.28		

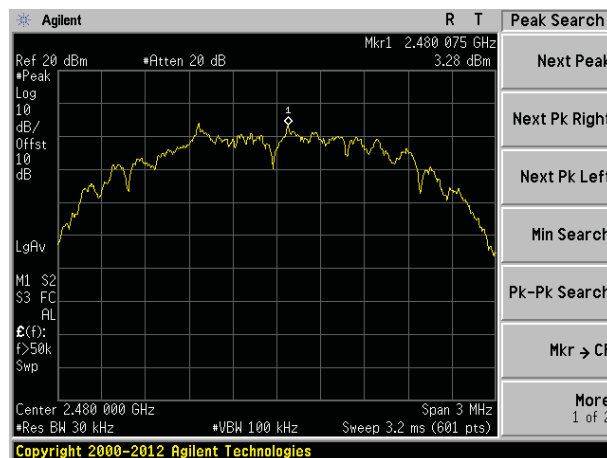
Test plot as follows:



2405MHz



2440MHz



2480MHz

LCTECH (Zhongshan) Testing Service Co.,Ltd

Add: 2/F.,Technology and Enterprise Development Center,
Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Tel:+86-760-22833366

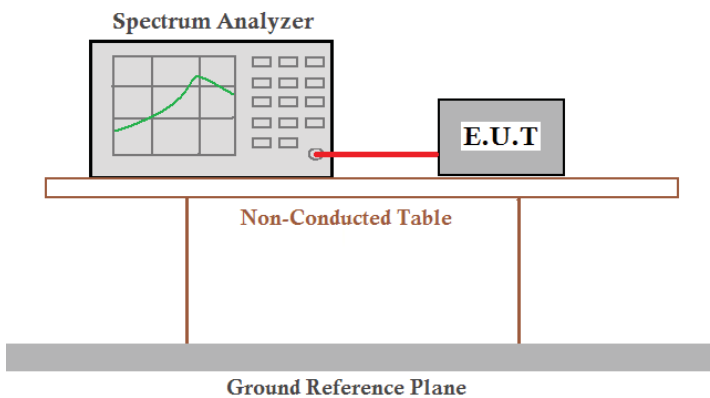
Fax:+86-760-22833399

E-mail:Service@lccert.com

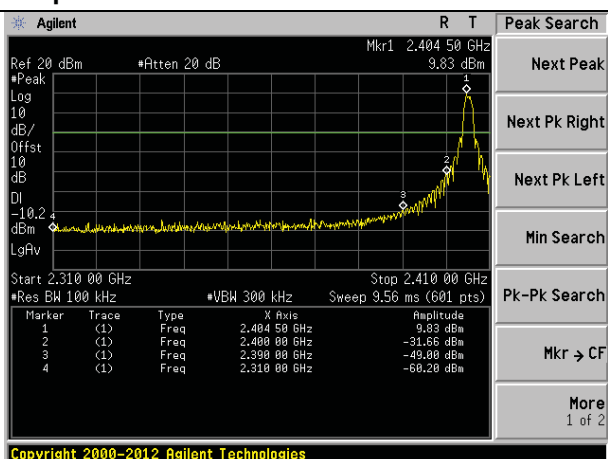
<http://www.lccert.com>

6.6 Band edges

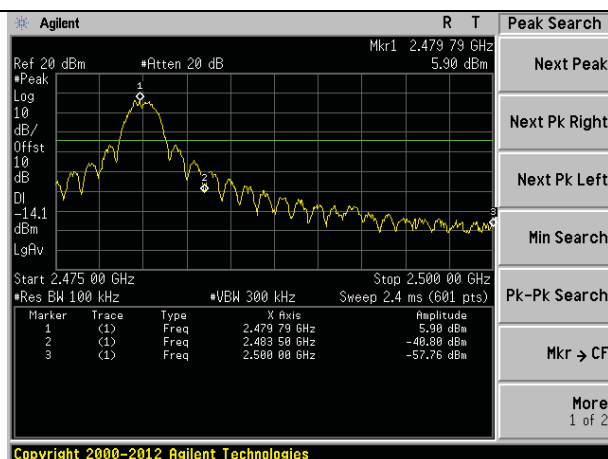
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

Test plot as follows:

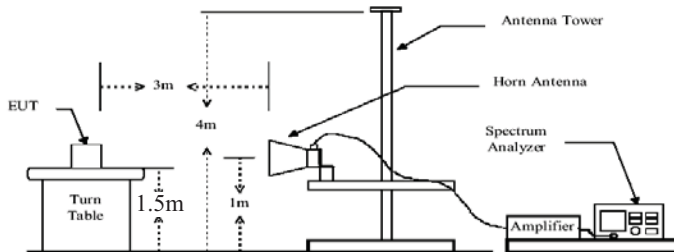


Lowest channel



Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. 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. 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. 5. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 5.0 for details				
Test mode:	Refer to section 4.3 for details				
Test results:	Pass				

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data is reported.

Test channel:	2405MHz
---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	55.51	27.91	5.30	30.37	58.35	74.00	-15.65	Horizontal
2400.00	64.88	27.59	5.38	30.18	67.67	74.00	-6.33	Horizontal
2390.00	44.39	27.91	5.30	30.37	47.23	74.00	-26.77	Vertical
2400.00	56.83	27.59	5.38	30.18	59.62	74.00	-14.38	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	44.66	27.91	5.30	30.37	47.50	54.00	-6.50	Horizontal
2400.00	49.84	27.59	5.38	30.18	52.63	54.00	-1.37	Horizontal
2390.00	34.99	27.91	5.30	30.37	37.83	54.00	-16.17	Vertical
2400.00	33.80	27.59	5.38	30.18	36.59	54.00	-17.41	Vertical

Test channel:	2480MHz
---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	61.86	27.53	5.47	29.93	64.93	74.00	-9.07	Horizontal
2500.00	45.43	27.55	5.49	29.93	48.54	74.00	-25.46	Horizontal
2483.50	68.66	27.53	5.47	29.93	71.73	74.00	-2.27	Vertical
2500.00	46.68	27.55	5.49	29.93	49.79	74.00	-24.21	Vertical

Average value:

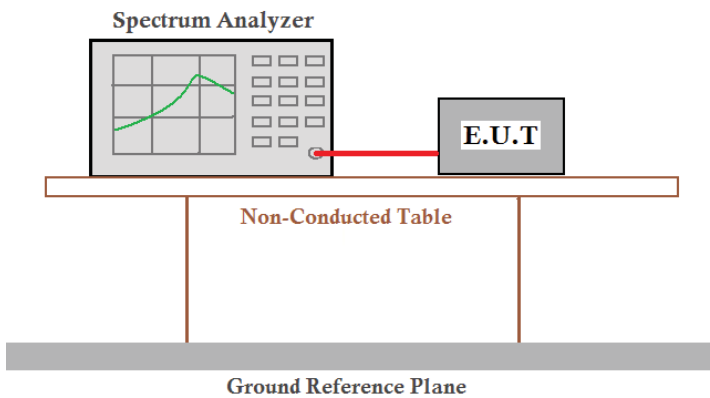
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.99	27.53	5.47	29.93	47.06	54.00	-6.94	Horizontal
2500.00	34.77	27.55	5.49	29.93	37.88	54.00	-16.12	Horizontal
2483.50	50.02	27.53	5.47	29.93	53.09	54.00	-0.91	Vertical
2500.00	34.91	27.55	5.49	29.93	38.02	54.00	-15.98	Vertical

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.

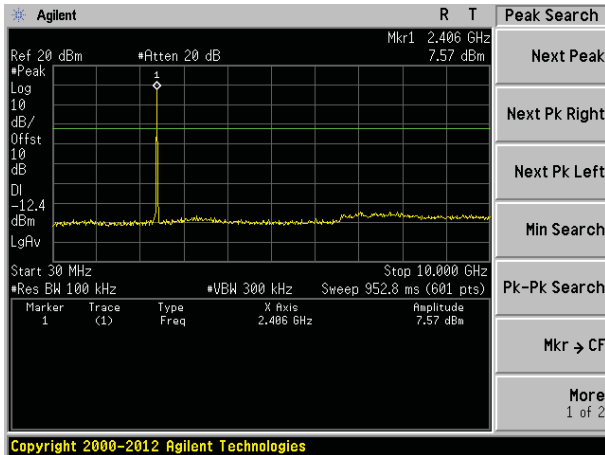
6.7 Spurious Emission

6.7.1 Conducted Emission Method

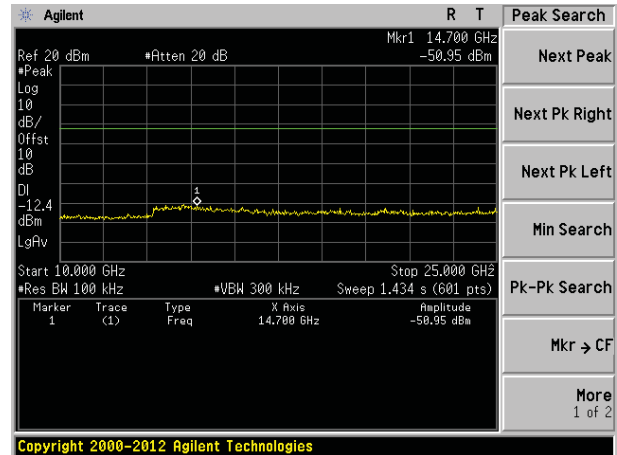
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

Test plot as follows:

Lowest channel

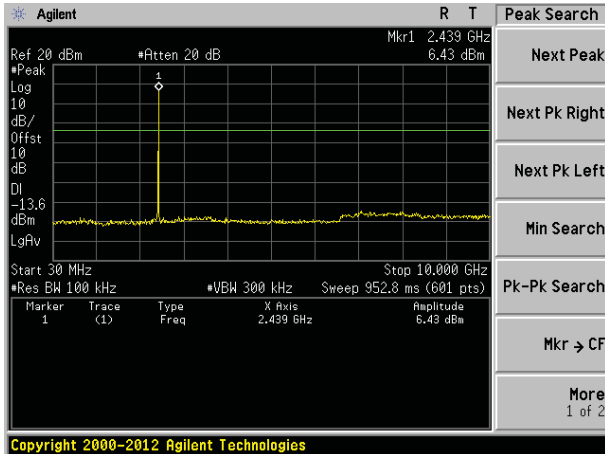


30MHz~10GHz

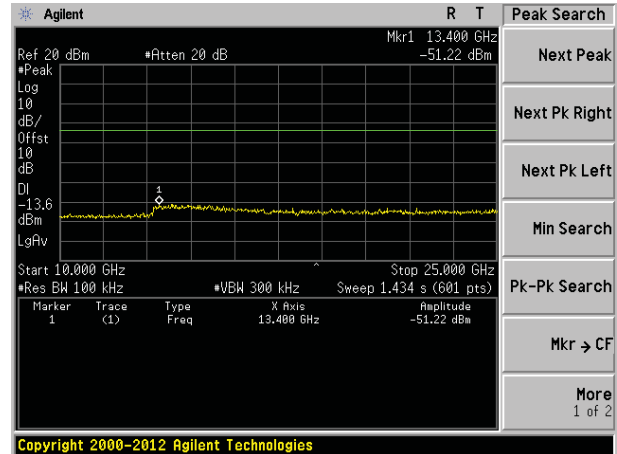


10GHz~25GHz

Middle channel

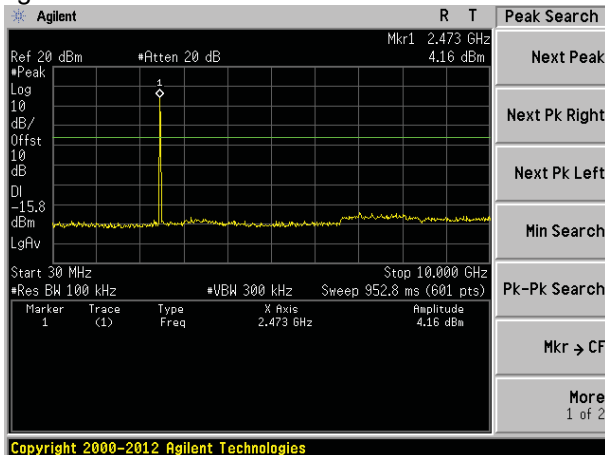


30MHz~10GHz

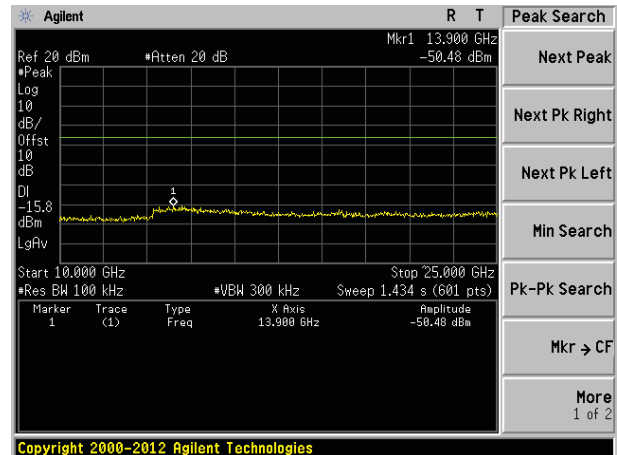


10GHz~25GHz

Highest channel

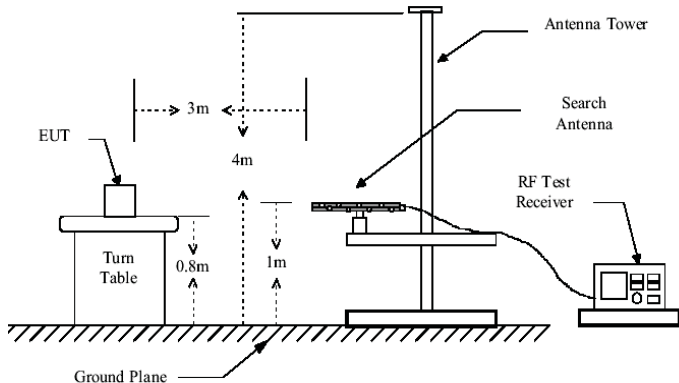


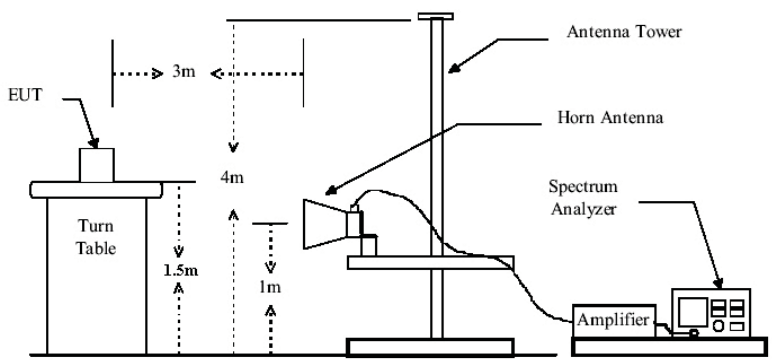
30MHz~10GHz



10GHz~25GHz

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:	Below 1GHz				
					
	Above 1GHz				

	
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5 m for above 1GHz above the ground at a 3 meter camber. 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. 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. 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. 5. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement Data
■ 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
31.84	45.94	14.32	0.57	30.09	30.74	40.00	-9.26	Vertical
35.38	43.35	14.39	0.61	30.07	28.28	40.00	-11.72	Vertical
51.48	38.05	15.19	0.79	29.99	24.04	40.00	-15.96	Vertical
109.03	42.93	14.35	1.27	29.64	28.91	43.50	-14.59	Vertical
151.60	48.76	10.32	1.58	29.40	31.26	43.50	-12.24	Vertical
434.07	34.33	17.53	3.02	29.43	25.45	46.00	-20.55	Vertical
78.69	39.72	10.37	1.02	29.80	21.31	40.00	-18.69	Horizontal
102.72	44.32	14.92	1.22	29.68	30.78	43.50	-12.72	Horizontal
109.41	45.94	14.30	1.28	29.64	31.88	43.50	-11.62	Horizontal
168.41	49.25	10.92	1.68	29.32	32.53	43.50	-10.97	Horizontal
215.27	41.16	13.03	1.93	29.35	26.77	43.50	-16.73	Horizontal
379.91	34.43	16.59	2.76	29.59	24.19	46.00	-21.81	Horizontal

■ Above 1GHz

Test channel:	Lowest
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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
4810.00	54.61	31.78	8.60	32.09	62.90	74.00	-11.10	Vertical
7215.00	31.17	36.15	11.66	31.99	46.99	74.00	-27.01	Vertical
9620.00	31.37	38.01	14.14	31.60	51.92	74.00	-22.08	Vertical
12025.00	*					74.00		Vertical
14430.00	*					74.00		Vertical
4810.00	49.01	31.78	8.60	32.09	57.30	74.00	-16.70	Horizontal
7215.00	31.49	36.15	11.66	31.99	47.31	74.00	-26.69	Horizontal
9620.00	33.30	38.01	14.14	31.60	53.85	74.00	-20.15	Horizontal
12025.00	*					74.00		Horizontal
14430.00	*					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
4810.00	43.64	31.78	8.60	32.09	51.93	54.00	-2.07	Vertical
7215.00	21.42	36.15	11.66	31.99	37.24	54.00	-16.76	Vertical
9620.00	21.59	38.01	14.14	31.60	42.14	54.00	-11.86	Vertical
12025.00	*					54.00		Vertical
14430.00	*					54.00		Vertical
4810.00	39.12	31.78	8.60	32.09	47.41	54.00	-6.59	Horizontal
7215.00	21.23	36.15	11.66	31.99	37.05	54.00	-16.95	Horizontal
9620.00	23.38	38.01	14.14	31.60	43.93	54.00	-10.07	Horizontal
12025.00	*					54.00		Horizontal
14430.00	*					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.

Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	44.88	31.85	8.67	32.12	53.28	74.00	-20.72	Vertical
7320.00	35.16	36.37	11.72	31.89	51.36	74.00	-22.64	Vertical
9760.00	30.30	38.35	14.25	31.62	51.28	74.00	-22.72	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.07	31.85	8.67	32.12	49.47	74.00	-24.53	Horizontal
7320.00	32.57	36.37	11.72	31.89	48.77	74.00	-25.23	Horizontal
9760.00	29.31	38.35	14.25	31.62	50.29	74.00	-23.71	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	42.87	31.85	8.67	32.12	51.27	54.00	-2.73	Vertical
7320.00	20.90	36.37	11.72	31.89	37.10	54.00	-16.90	Vertical
9760.00	21.13	38.35	14.25	31.62	42.11	54.00	-11.89	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	38.24	31.85	8.67	32.12	46.64	54.00	-7.36	Horizontal
7320.00	20.64	36.37	11.72	31.89	36.84	54.00	-17.16	Horizontal
9760.00	22.84	38.35	14.25	31.62	43.82	54.00	-10.18	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					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.

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	42.39	31.93	8.73	32.16	50.89	74.00	-23.11	Vertical
7440.00	37.47	36.59	11.79	31.78	54.07	74.00	-19.93	Vertical
9920.00	30.08	38.81	14.38	31.88	51.39	74.00	-22.61	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	37.70	31.93	8.73	32.16	46.20	74.00	-27.80	Horizontal
7440.00	33.41	36.59	11.79	31.78	50.01	74.00	-23.99	Horizontal
9920.00	29.81	38.81	14.38	31.88	51.12	74.00	-22.88	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

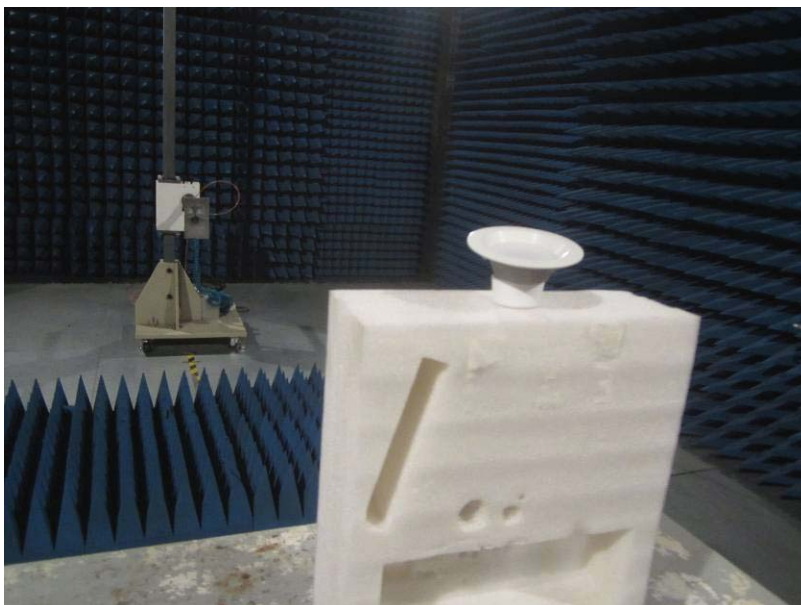
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4960.00	38.83	31.93	8.73	32.16	47.33	54.00	-6.67	Vertical
7440.00	20.57	36.59	11.79	31.78	37.17	54.00	-16.83	Vertical
9920.00	20.84	38.81	14.38	31.88	42.15	54.00	-11.85	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	35.23	31.93	8.73	32.16	43.73	54.00	-10.27	Horizontal
7440.00	20.28	36.59	11.79	31.78	36.88	54.00	-17.12	Horizontal
9920.00	22.50	38.81	14.38	31.88	43.81	54.00	-10.19	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. “*”, means this data is the too weak instrument of signal is unable to test.

7 Test Setup Photo

Radiated Emission



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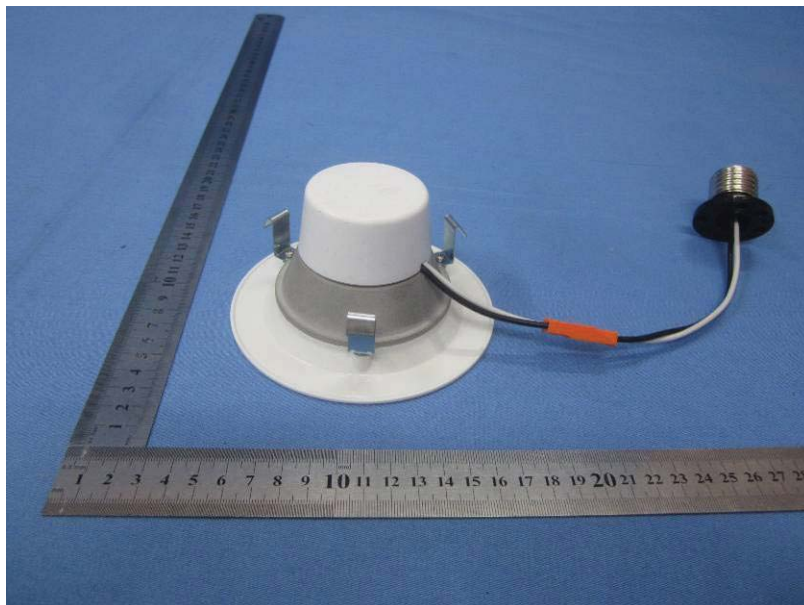
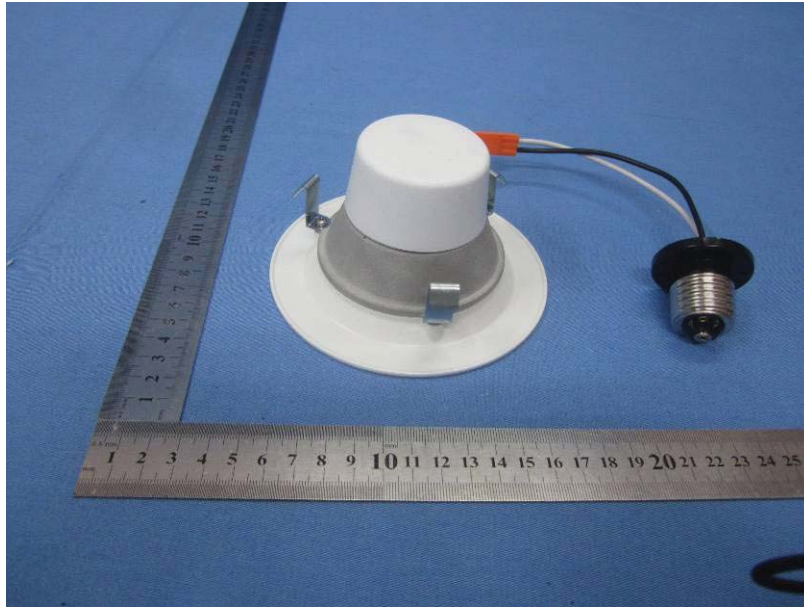
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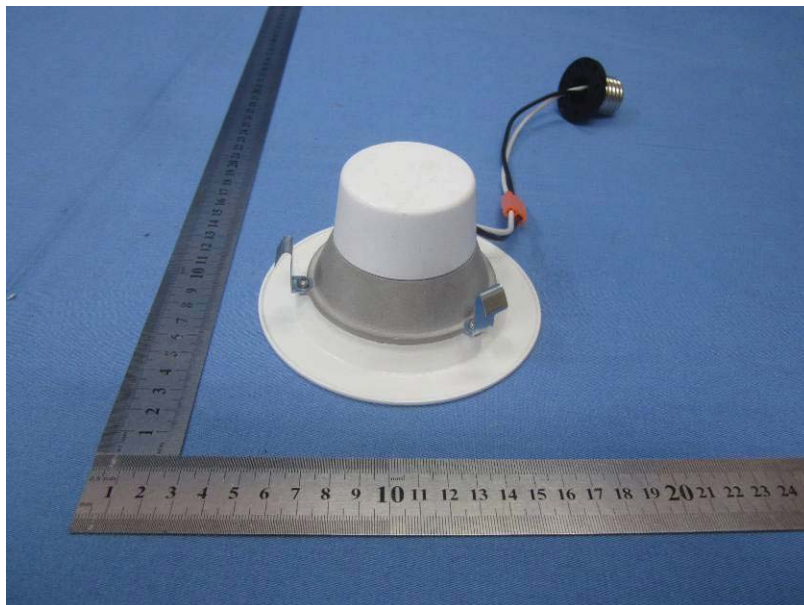
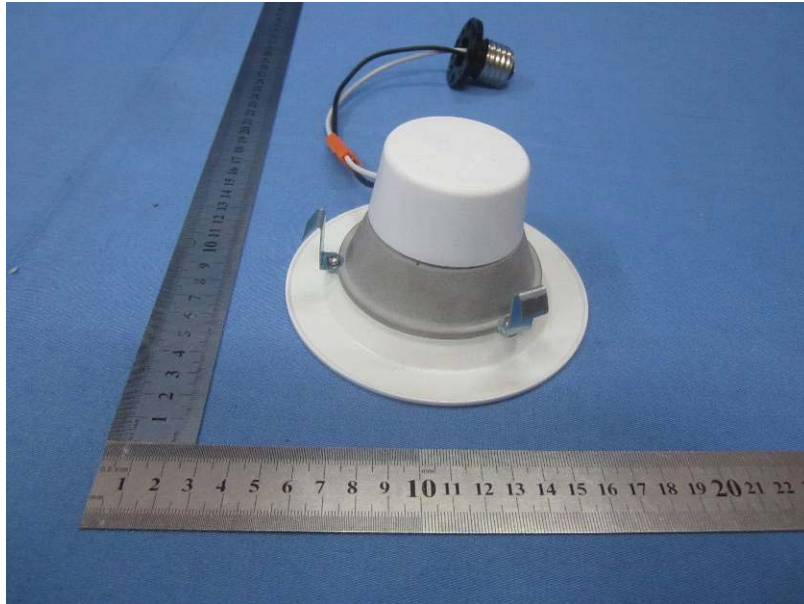
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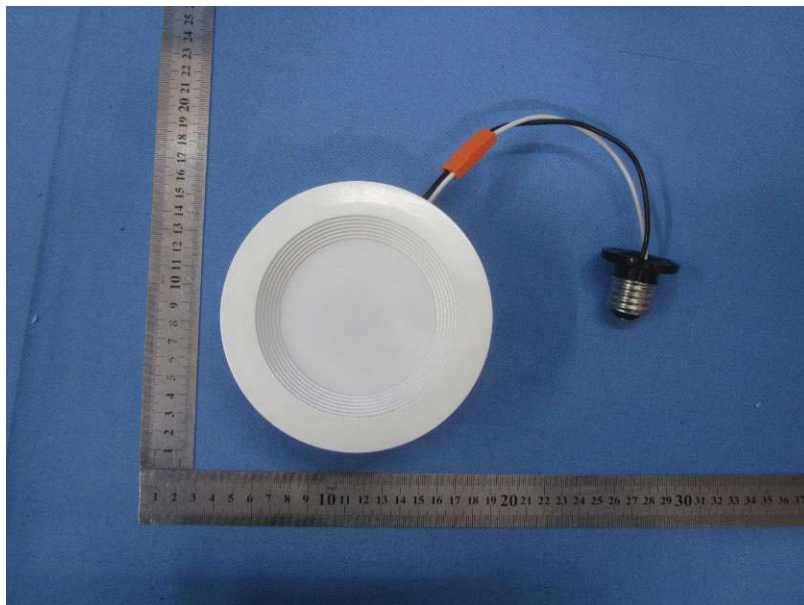
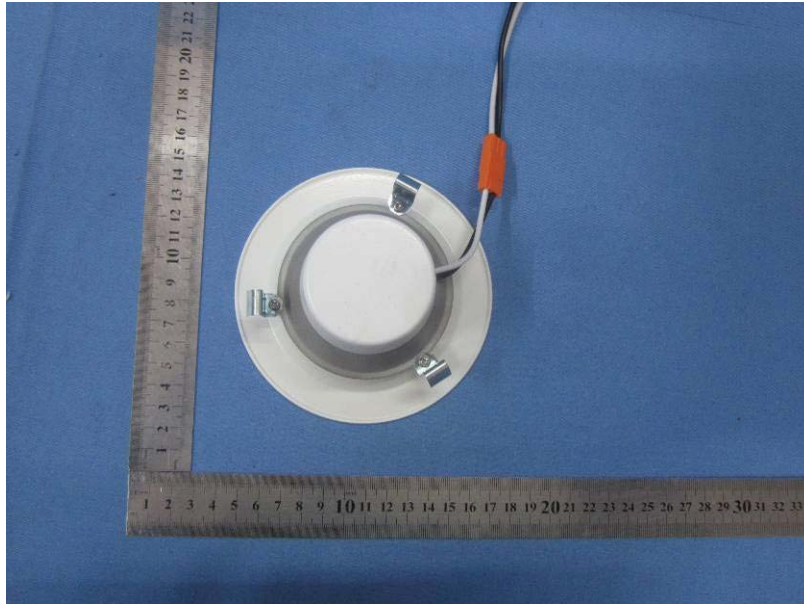
Conducted Emissions

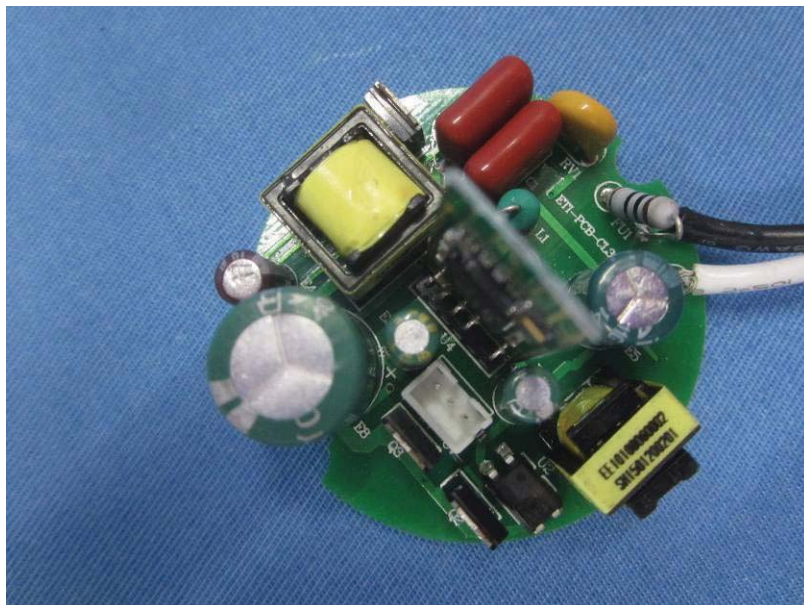
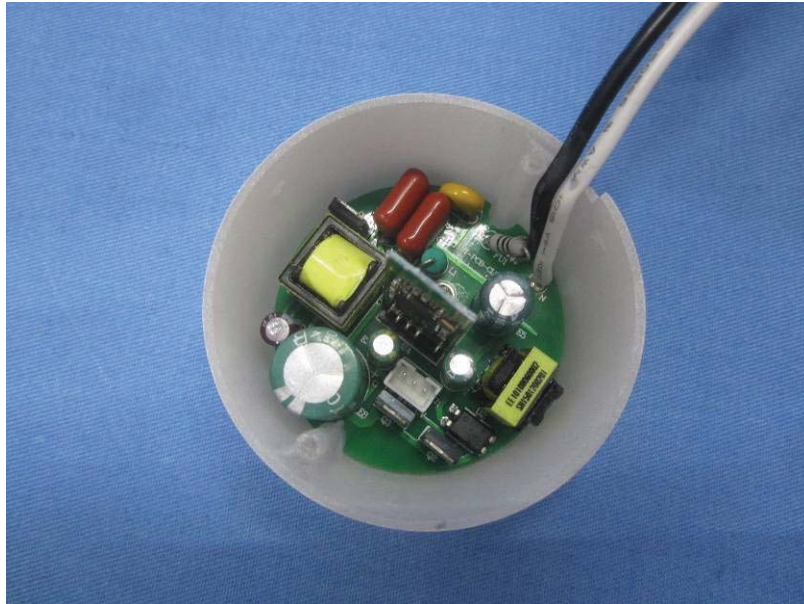


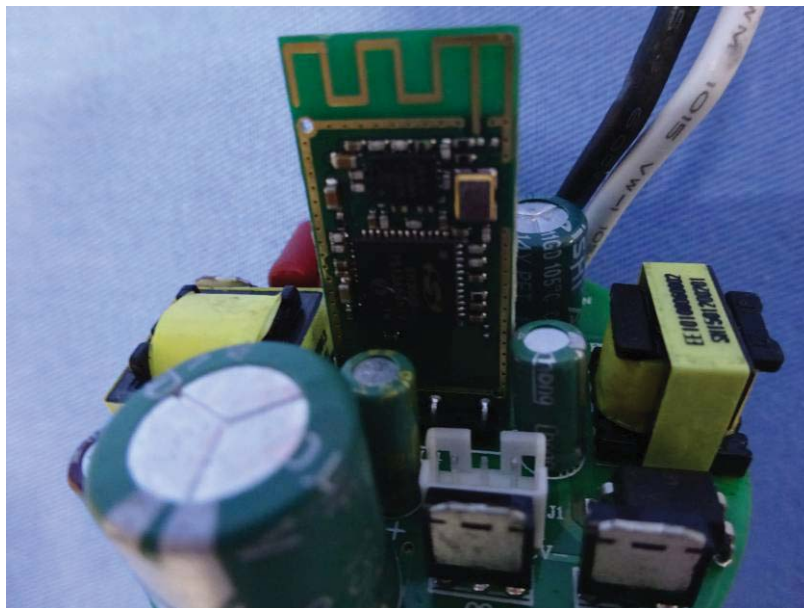
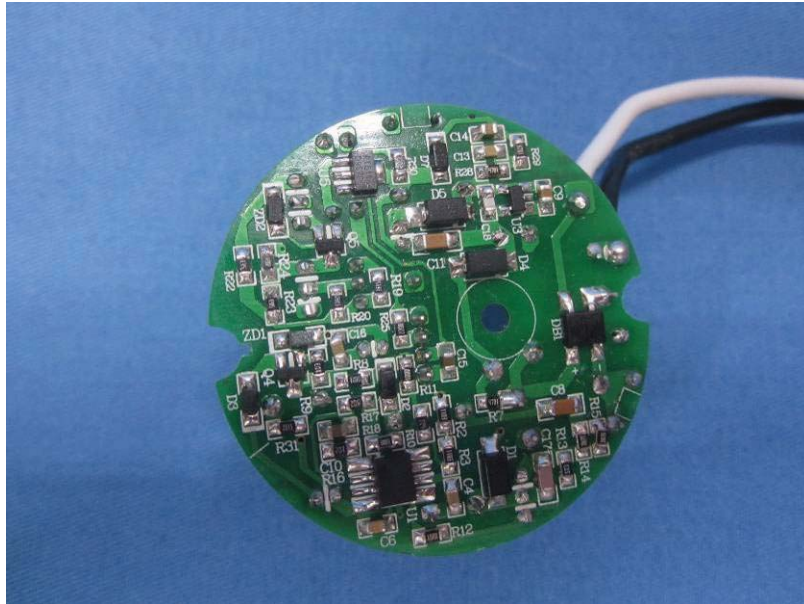
8 EUT Constructional Details

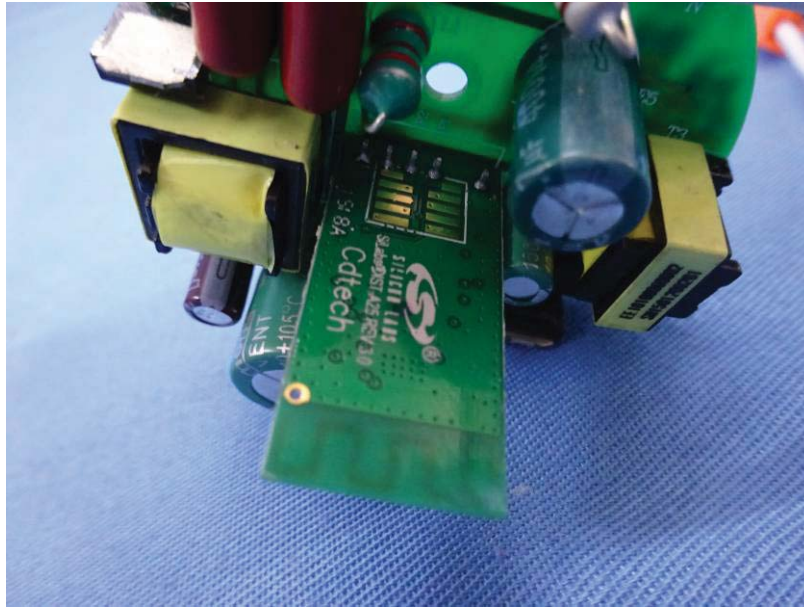












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