

TEST REPORT

Applicant:	Guangde Ledup Enterprise Inc.
Address of Applicant:	Jingtang Road, Economic Development Zone, Xuancheng, Anhui 242200, China
Manufacturer:	Guangde Ledup Enterprise Inc.
Address of Manufacturer:	Jingtang Road, Economic Development Zone, Xuancheng, Anhui 242200, China
Product name:	control box for light string
Model:	102R5-1701B1W, 51R5-1701B1
Rating(s):	I/P: 120V~ 60Hz, 0.72A (For adapter) 5Vdc (For main) O/P: 5Vdc 6A
Trademark:	LEDUP
FCC register number:	935596
IC register number:	8368A-1
FCC ID:	2AEBHR51701B1C
Standards:	FCC Part15 subpart B: 2017 ICES(Interference-Causing Equipment Standard)-003 Issue 6 June 2016
Date of Receipt:	2017-03-30
Date of Test:	2017-03-30~2017-03-31
Date of Issue:	2017-03-31
Test Result	Pass*

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

Authorized for issue by:

Test by:			Reviewed by:		
Mar. 31, 2017		Galen Yiao	Mar. 31, 2017	Pauler Li	
	Project Engir	ieer		Project Manager	
Date	Name/Position	Signature	Date	Name/Position	Signature



Testing Laboratory Name: I-Test Laboratory

Guangzhou, Guangdong Province, P.R. China

 Testing location
 : Same as above

 Tel.
 : 0086-20-32209330

 Fax
 : 0086-20-62824387

 E-mail
 : itl@i-testlab.com

Possible test case verdicts:

test case does not apply to the test object...: N/A
test object does meet the requirement.......: P (Pass)
test object does not meet the requirement ... F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:						
1						



Test Summary:

The following standards have been applied to ensure the product conforms with the protection requirements of the council directive FCC part 15B / ICES-003.

Electromagnetic Emissions								
Test Item	Test Standard	Test Method	Class/Severity	Result				
Conducted Emission(0.15-30MHz)	FCC part 15.107/ ICES-003	ANSI C63.4:2014/ ICES-003	Class B	PASS				
Radiated Emission(30-1000MHz)	FCC part 15.109/ ICES-003	ANSI C63.4:2014/ ICES-003	Class B	PASS				
Radiated Emission above 1GHz	FCC part 15.109/ ICES-003	ANSI C63.4:2014/ ICES-003	Class B	PASS				

Test Location:

All the tests were performed in I-Test Laboratory. Which is located at 1-2 floor, South Block, Building A2, No 3 Keyan Lu, Science City, Guangzhou, Guangdong Province, P.R. China

Tel: 0086-20-32209330, Fax: 0086-20-62824387

No test is subcontracted



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Section 1 General Information and Equipment Used

1.1 Client Information

Applicant: Guangde Ledup Enterprise Inc.

Address of Applicant: Jingtang Road, Economic Development Zone, Xuancheng, Anhui

242200, China

1.2 EUT General and Technical Descriptions

EUT Name: control box for light string

EUT Model: 102R5-1701B1W, 51R5-1701B1

EUT Trademark: LEDUP

Input Voltage: 120V~ (For adapter)

5Vdc (for main)

Frequency: 60Hz (For adapter)
Input Power/Current: 0.72A (For adapter)

Output rated: 5Vdc 6A

Power Cable Description: /
Other Cables Description: /
I/O Ports: /
Function(s) Description: /
Accessories information: /
Highest operating frequency: 3G

1.3 Support Equipment(s) and Test Configuration

1.3.1 Details of Support Equipment(s)

Description	Manufacturer	Model No.	Connection	Working state
	_		_	_

1.3.2 Working State of EUT

Power Supply of EUT: 5V EUT Status: RX

Report. No. 17030359-2



1.4 Equipment Used during Test

Conducted Emission								
No.	Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due		
ITL-102	EMI Test receiver	R&S	ESCI	100910	2016/06/17	2017/06/17		
ITL-103	Two-line v-network	R&S	ENV216	100120	2016/06/17	2017/06/17		
ITL-101	Shielded Room	ETS•Lindgren	8*4*3	CT09010	2015/03/09	2018/03/09		

Radiated Emission								
No.	Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due		
ITL-100	Semi-Anechoic chamber	ETS•Lindgren	FACT3 2.0	CT09015	2016/11/02	2019/11/02		
ITL-154	EMI test receiver 9kHz to 26.5GHz	R&S	ESR26	101257	2017/01/20	2018/01/20		
ITL-105	Biconilog Antenna	ETS•Lindgren	3142D	00108096	2015/01/24	2018/01/24		
ITL-116	Pre Amplifier	HP	8447F	3113A05905	2017/01/20	2018/01/20		
ITL-157	Radiation Cable 1	Sat	RE1	R001	2017/01/19	2018/01/19		
ITL-158	Radiation Cable 2	Sat	RE2	R002	2017/01/19	2018/01/19		
ITL-117	Wideband Amplifier Super Ultra	Mini-circuits	ZVA-183- S+	469101134	2017/01/19	2018/01/19		
ITL-110	Horn Antenna	A-INFOMW	JXTXLB-1 0180-N	J2031090612 133	2015/01/24	2018/01/24		

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Section 2 Emission Test Results

2.1 Conducted Emission at Mains Terminals, 150 kHz to 30MHz

Test Requirement: FCC part 15.107/ ICES-005
Test Method: ANSI C63.4:2014/ ICES-005

Test Voltage: 120V AC, 60Hz
Test Date: 2017-03-30

Frequency Range: 150 kHz to 30MHz

Detector: Peak for pre-scan

Quasi-Peak and Average at frequency with maximum peak

Report. No. 17030359-2

(9 kHz resolution bandwidth)

Uncertainty: 2Uc(V) = 2.3dB

Class / Limit: Class B

Frequency range MHz	Class B Limits dB (μV)		
	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

NOTE 1 :The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

NOTE 2: The lower limit is applicable at the transition frequency.

2.1.1 E.U.T. Operation

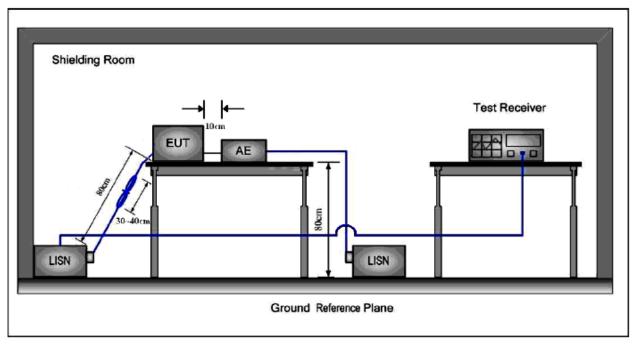
Operating Environment:

Temperature: 24.0 °C Humidity: 51 % RH Atmospheric Pressure: 101 kPa

EUT Operation: RX.



2.1.2 Test Setup and Procedure



- 1. The mains terminal disturbance voltage test was conducted in a shielded room.
- 2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH+5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

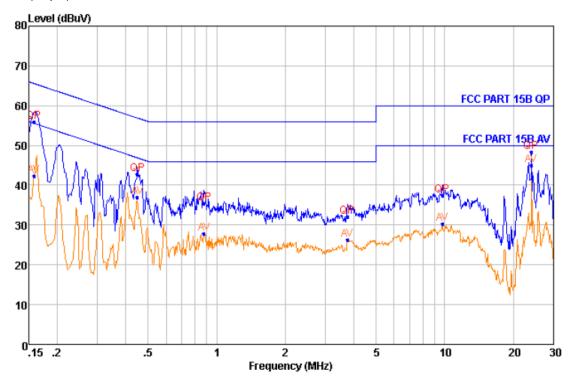
2.1.3 Measurement Data

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected. Please see the attached Quasi-peak and Average test results.



Model: 102R5-1701B1W

Live Line: Peak Scan: Level (dBµV)



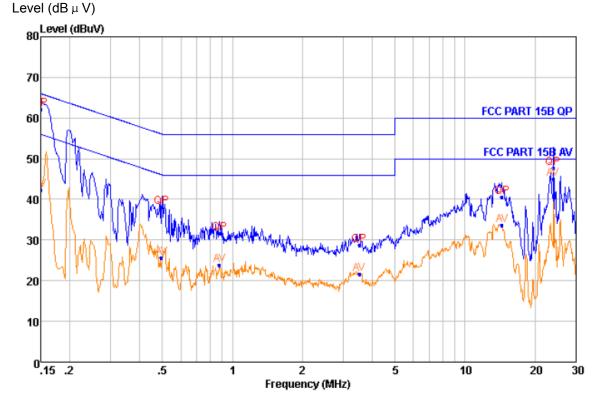
Quasi-peak and Average measurement

NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1 2 3 4 5 6 7 8 9 10	0. 158 0. 158 0. 448 0. 448 0. 878 0. 878 3. 733 3. 733 9. 741 9. 741 23. 966	55. 97 42. 37 42. 76 36. 91 35. 34 27. 86 32. 07 26. 25 37. 43 30. 39 48. 39	QP Average	9.39 9.39 9.36 9.36 9.27 9.27 9.30 9.30 9.36 9.36	0. 20 0. 20 0. 26 0. 26 0. 30 0. 30 0. 38 0. 38 0. 44 0. 44	65.56 55.56 56.91 46.91 56.00 46.00 46.00 60.00 60.00	-9.59 -13.19 -14.15 -10.00 -20.66 -18.14 -23.93 -19.75 -22.57 -19.61 -11.61
12	23.966	44.98	Average	9.72	0.49	50.00	-5.02



Neutral Line:

Peak Scan:

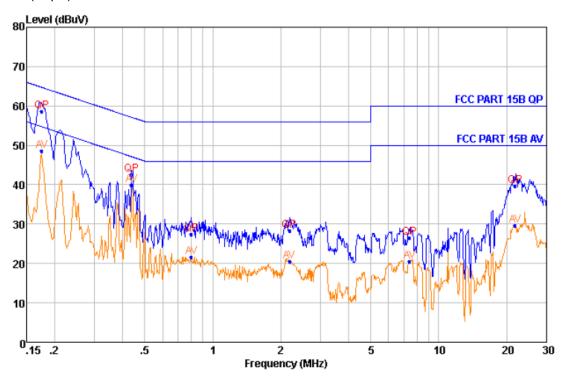


Quasi-peak and Average measurement

NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1 2	0.150 0.150	62.25 42.25	QP Average	9.38 9.38	0.20 0.20	66.00 56.00	-3.75 -13.75
3	0.496	38.21	QP	9.36	0.27	56.07	-17.86
4	0.496	25.56	Average	9.36	0.27	46.07	-20.51
5	0.878	31.69	QP	9.37	0.30	56.00	-24.31
6	0.878	23.92	Average	9.37	0.30	46.00	-22.08
7	3.520	28.78	QP	9.41	0.38	56.00	-27.22
8	3.520	21.69	Average	9.41	0.38	46.00	-24.31
9	14.403	40.55	QP	9.65	0.46	60.00	-19.45
10	14.403	33.64	Average	9.65	0.46	50.00	-16.36
11	23.966	47.64	QP	9.81	0.49	60.00	-12.36
12	23.966	45.08	Average	9.81	0.49	50.00	-4.92



Live Line: Peak Scan: Level (dBµV)



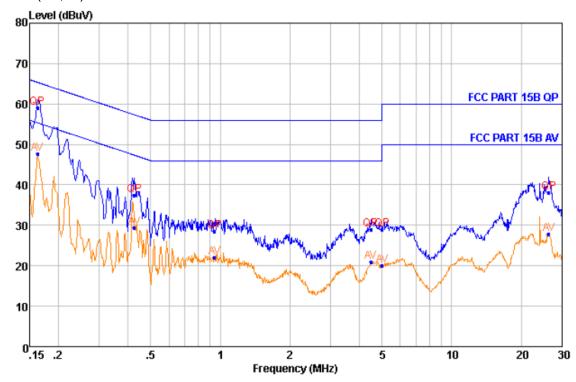
Quasi-peak and Average measurement

NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1 2 3 4 5 6 7 8 9 10	0.175 0.175 0.436 0.436 0.803 0.803 2.186 2.186 7.434 7.434 21.779	58. 63 48. 63 37. 65 39. 79 27. 31 21. 52 28. 25 20. 49 26. 42 20. 55 39. 62	QP Average	9. 46 9. 46 9. 36 9. 36 9. 27 9. 27 9. 32 9. 32 9. 31 9. 31 9. 74	0. 21 0. 21 0. 26 0. 26 0. 29 0. 29 0. 35 0. 35 0. 42 0. 42	64. 72 54. 72 57. 13 47. 13 56. 00 46. 00 56. 00 46. 00 60. 00 50. 00	-6. 09 -6. 09 -19. 48 -7. 34 -28. 69 -24. 48 -27. 75 -25. 51 -33. 58 -29. 45 -20. 38
12	21.779	29.54	Average	9.74	0.48	50.00	-20.46



Neutral Line:

Peak Scan: Level (dB μ V)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1	0.162	59.01	QP	9.38	0.20	65.34	-6.33
2	0.162	47.64	Average	9.38	0.20	55.34	-7.70
3	0.425	37.54	QP	9.36	0.26	57.35	-19.81
4	0.425	29.32	Average	9.36	0.26	47.35	-18.03
5	0.946	28.58	QP	9.37	0.30	56.00	-27.42
6	0.946	22.03	Average	9.37	0.30	46.00	-23.97
7	4.467	29.07	QP	9.43	0.39	56.00	-26.93
8	4.467	20.99	Average	9.43	0.39	46.00	-25.01
9	5.000	29.04	QP	9.43	0.40	56.00	-26.96
10	5.000	20.09	Average	9.43	0.40	46.00	-25.91
11	26.225	38.02	QP	9.83	0.49	60.00	-21.98
12	26.225	27.78	Average	9.83	0.49	50.00	-22.22



2.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC part 15.109/ ICES-005
Test Method: ANSI C63.4:2014/ ICES-005

Test Voltage: 120V AC, 60Hz
Test Date: 2017-03-30
Frequency Range: 30MHz to 1GHz

Measurement Distance 3m

Detector: Peak for pre-scan

Quasi-Peak if maximised peak within 6dB of limit

Report. No. 17030359-2

(120 kHz resolution bandwidth)

Uncertainty: 2Uc(V) = 3.35dB

Class / Limit: Class B

Frequency range	Quasi-peak limits
MHz	dB (μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
960 to 1000	54
At transitional frequencies the lower limit applies	

2.2.1 E.U.T. Operation

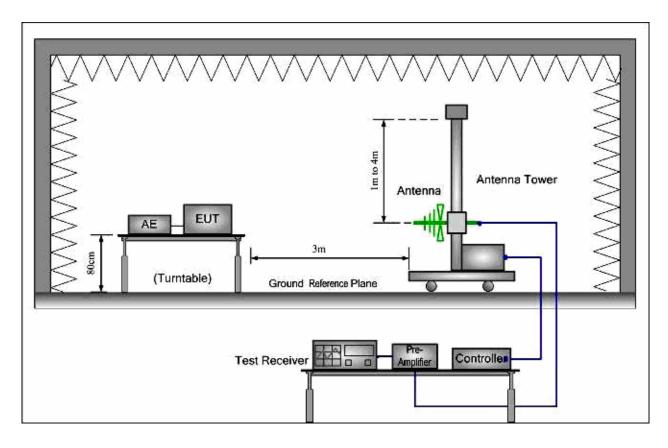
Operating Environment:

Temperature: 24.0 °C Humidity: 50 % RH Atmospheric Pressure: 101 kPa

EUT Operation: RX.



2.2.2 Test Setup and Procedure



- The radiated emissions test was conducted in a semi-anechoic chamber.
- 2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

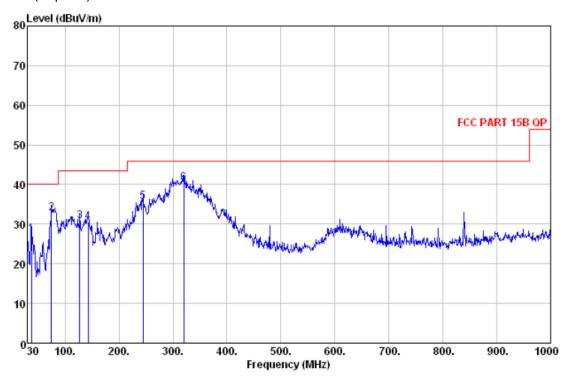
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2.2.3 Measurement Data

Model: 102R5-1701B1W

Horizontal: Peak scan Level (dBµV/m)



Quasi-peak measurement

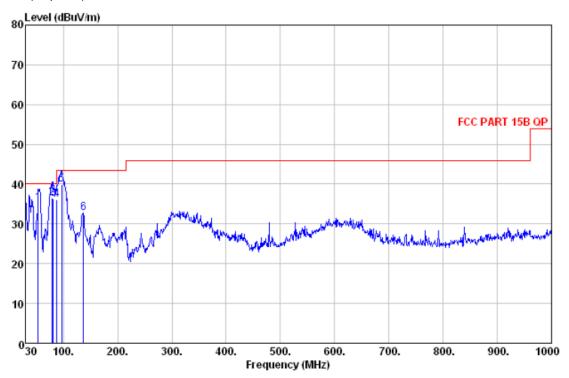
No. Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB		Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1 37.760	41.41	13.57	0.70	28.32	27.36	40.00	-12.64	HORIZONTAL	QP
2 74.620	52.76	7.28	1.01	28.20	32.85	40.00	-7.15	HORIZONTAL	QP
3 127.000	50.38	7.48	1.34	28.43	30.77	43.50	-12.73	HORIZONTAL	QP
4 142.520	50.02	7.35	1.42	28.30	30.49	43.50	-13.01	HORIZONTAL	QP
5 244.370	49.97	11.04	1.90	27.24	35.67	46.00	-10.33	HORIZONTAL	QP
6 320.030	51.82	13.80	2.19	27.52	40.29	46.00	-5.71	HORIZONTAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Vertical:

Peak scan Level (dBµV/m)

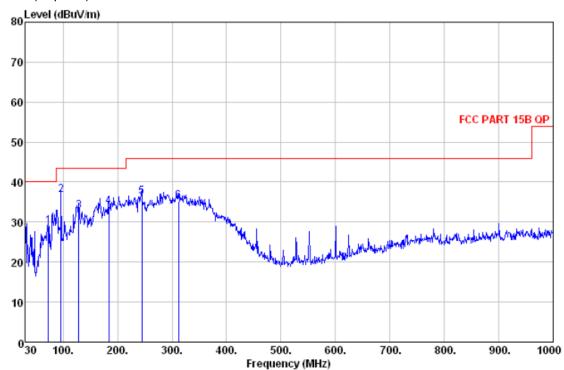


Quasi-peak measurement

	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB		Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
2 7 3 8 4 8 5 9	3. 280 8. 500 1. 410 8. 000 6. 930 6. 700	55.00 56.51 56.20 55.30 58.90 52.27	7.92 7.23 7.31 7.96 8.45 7.40	0.83 1.03 1.05 1.09 1.15 1.39	28. 46 28. 13 28. 14 28. 34 28. 68 28. 26	35. 29 36. 64 36. 42 36. 01 39. 82 32. 80	40.00 40.00 40.00 40.00 43.50 43.50	-4.71 -3.36 -3.58 -3.99 -3.68 -10.70	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL	QP QP QP QP QP QP
Lowel	-Pood	Lorel +	tnt anna	Factor	+ Cabl	a Logg	- Proper	Factor		



Horizontal: Peak scan Level (dBµV/m)



Quasi-peak measurement

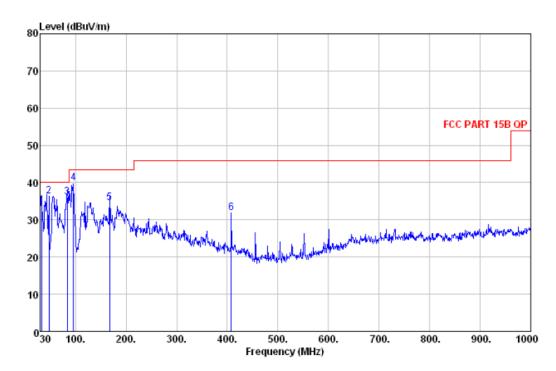
No. Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1 72.680	49.14	7.16	1.00	28.24	29.06	40.00	-10.94	HORIZONTAL	QP
2 95.960	56.00	8.38	1.14	28.64	36.88	43.50	-6.62	HORIZONTAL	QP
3 128.940	52.44	7.36	1.35	28.41	32.74	43.50	-10.76	HORIZONTAL	QP
4 184.230	51.62	8.37	1.63	27.71	33.91	43.50	-9.59	HORIZONTAL	QP
5 244.370	50.54	11.04	1.90	27.24	36.24	46.00	-9.76	HORIZONTAL	QP
6 312.270	47.02	13.57	2.17	27.55	35.21	46.00	-10.79	HORIZONTAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Vertical:

Peak scan Level (dBµV/m)



Quasi-peak measurement

No. Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB		Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1 32.910	44.99	16.51	0.66	28.56	33.60	40.00	-6.40	VERTICAL	QP
2 47.460	54.33	9.76	0.78	28.55	36.32	40.00	-3.68	VERTICAL	QP
3 83.350	55.87	7.47	1.06	28.20	36.20	40.00	-3.80	VERTICAL	QP
4 95.960	59.00	8.38	1.14	28.64	39.88	43.50	-3.62	VERTICAL	QP
5 167.740	53.37	7.94	1.55	28.41	34.45	43.50	-9.05	VERTICAL	QP
6 408.300	41.74	15.88	2.48	28.17	31.93	46.00	-14.07	VERTICAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

ITL

2.3 Radiated Emissions above 1 GHz

Test Requirement: FCC part 15.109/ ICES-005
Test Method: ANSI C63.4:2014/ ICES-005

Test Voltage: 120V AC, 60Hz
Test Date: 2017-03-30
Frequency Range: 1GHz to 18GHz

Measurement Distance 3m

Detector: Peak for pre-scan

Quasi-Peak if maximised peak within 6dB of limit

Report. No. 17030359-2

(120 kHz resolution bandwidth)

Uncertainty: 2Uc(V) = 3.37dB

Class / Limit: Class B

Frequency range	Peak limits	AV limits
GHz	dΒ (μV/m)	dB (μV/m)
1 to 18	74	54

2.3.1 E.U.T. Operation

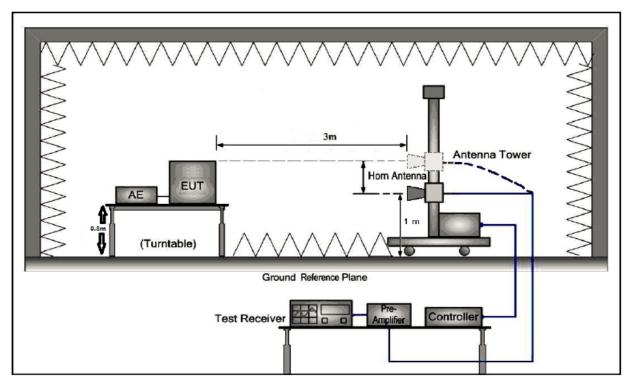
Operating Environment:

Temperature: 24°C Humidity: 52 % RH Atmospheric Pressure: 101 kPa

EUT Operation: RX.



2.3.2Test Setup and Procedure



- 1. The radiated emissions test was conducted in a fully-anechoic chamber.
- 2. Horn antenna was used for the frequency above 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



For the radiated emission test above 1GHz:

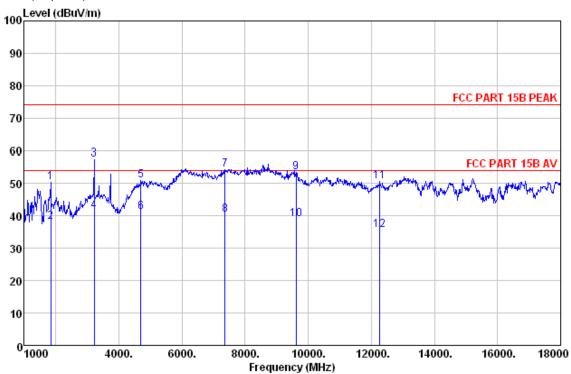
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.



2.3.3 Measurement Data

Model: 102R5-1701B1W

Horizontal: Peak scan Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz 	dBuV/m 		_dB/m	dB 	dBu_V/m	dB		deg
1 2	1850.000 1850.000	50.35 38.27	Peak Average	28.05 28.05	5.59 5.59	74.00 54.00	-23.65 -15.73	100 100	57 57
3 4 5	3210.000 3210.000 4689.000	57.52 41.41 51.02	Peak Average Peak	31.52 31.52 34.19	7.61 7.61 9.45	74.00 54.00 74.00	-16.48 -12.59 -22.98	100 100 100	125 125 235
6 7 8	4689.000 7358.000	41.11 54.45	Average Peak	34.19 35.28	9.45 12.28	54.00 74.00	-12.89 -19.55	100 203	235 110
9 10 11	7358.000 9619.000 9619.000 12254.000 12254.000	40.47 53.61 38.87 50.59 35.59	Average Peak Average Peak Average	35.28 37.76 37.76 38.37 38.37	12.28 14.41 14.41 16.57 16.57	54.00 74.00 54.00 74.00 54.00	-13.53 -20.39 -15.13 -23.41 -18.41	203 203 203 203 203	110 256 256 203 203

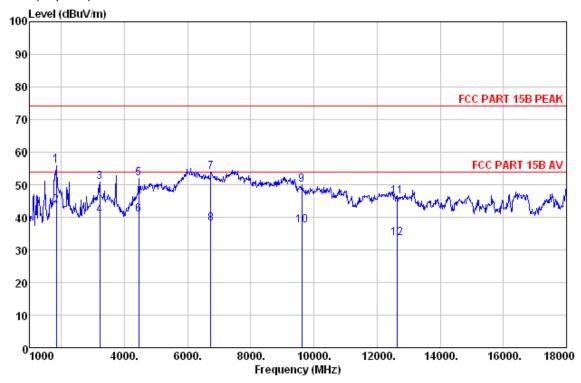
Level=Read Level + Antenna Factor + Cable Loss

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Vertical:

Peak scan Level (dBµV/m)



Quasi-peak measurement

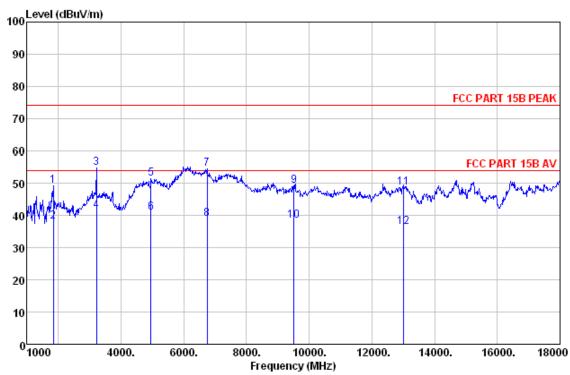
No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV/m		dB/m	B	dBuV/m	dB	cm	deg
1	1850.000	56.03	Peak	28.05	5.59	74.00	-17.97	100	193
2	1850.000	43.67	Average	28.05	5.59	54.00	-10.33	100	193
3	3210.000	50.92	Peak	31.52	7.61	74.00	-23.08	100	253
4	3210.000	40.62	Average	31.52	7.61	54.00	-13.38	100	253
5	4451.000	52.08	Peak	33.36	9.17	74.00	-21.92	100	144
6	4451.000	40.95	Average	33.36	9.17	54.00	-13.05	100	144
7	6729.000	54.10	Peak	34.35	11.65	74.00	-19.90	100	336
8	6729.000	38.18	Average	34.35	11.65	54.00	-15.82	100	336
9	9619.000	50.03	Peak	37.76	14.41	74.00	-23.97	200	152
10	9619.000	37.58	Average	37.76	14.41	54.00	-16.42	200	152
11	12611.000	46.46	Peak	39.94	16.87	74.00	-27.54	200	302
12	12611.000	33.73	Average	39.94	16.87	54.00	-20.27	200	302

Level=Read Level + Antenna Factor + Cable Loss

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Horizontal: Peak scan Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV/m		dB/m	dB	dBu∜/m	dB	cm	deg
1	1850.000	49.17	Peak	28.05	5.59	74.00	-24.83	100	256
2	1850.000	38.26	Average	28.05	5.59	54.00	-15.74	100	256
3	3210.000	54.89	Peak	31.52	7.61	74.00	-19.11	100	286
4	3210.000	41.63	Average	31.52	7.61	54.00	-12.37	100	286
5	4944.000	51.39	Peak	34.44	9.74	74.00	-22.61	100	179
6	4944.000	40.91	Average	34.44	9.74	54.00	-13.09	100	179
7	6746.000	54.53	Peak	34.31	11.67	74.00	-19.47	203	330
8	6746.000	39.04	Average	34.31	11.67	54.00	-14.96	203	330
9	9517.000	49.44	Peak	37.97	14.35	74.00	-24.56	203	325
10	9517.000	38.34	Average	37.97	14.35	54.00	-15.66	203	325
11	12985.000	48.64	Peak	42.11	17.17	74.00	-25.36	203	285
12	12985.000	36.45	Average	42.11	17.17	54.00	-17.55	203	285

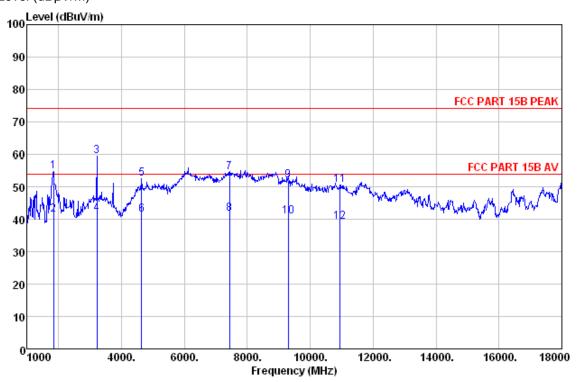
Level=Read Level + Antenna Factor + Cable Loss

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Vertical:

Peak scan Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV/m		dB/m	dB	dBuV/m	dB	cm	deg
1	1850.000	54.79	Peak	28.05	5.59	74.00	-19.21	100	124
2	1850.000	41.56	Average	28.05	5.59	54.00	-12.44	100	124
3	3210.000	59.24	Peak	31.52	7.61	74.00	-14.76	100	253
4	3210.000	41.81	Average	31.52	7.61	54.00	-12.19	100	253
5	4638.000	52.61	Peak	34.14	9.39	74.00	-21.39	100	175
6	4638.000	41.39	Average	34.14	9.39	54.00	-12.61	100	175
7	7443.000	54.61	Peak	35.65	12.36	74.00	-19.39	200	286
8	7443.000	41.88	Average	35.65	12.36	54.00	-12.12	200	286
9	9313.000	52.00	Peak	37.66	14.17	74.00	-22.00	200	356
10	9313.000	40.95	Average	37.66	14.17	54.00	-13.05	200	356
11	10928.000	50.70	Peak	38.51	15.51	74.00	-23.30	200	286
12	10928.000	39.32	Average	38.51	15.51	54.00	-14.68	200	286

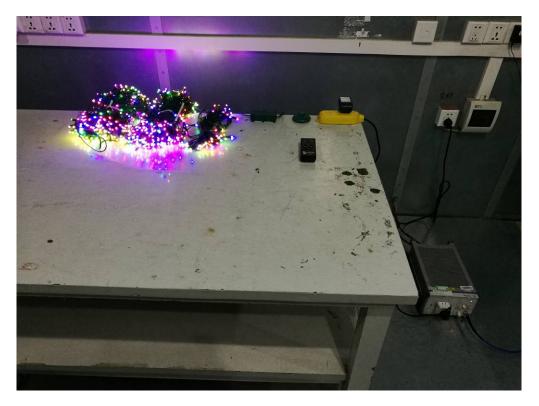
Level=Read Level + Antenna Factor + Cable Loss

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Section 3 Photographs

3.1 Conducted Emissions Mains Terminals Test Setup



3.2 Radiated Emissions, 30MHz to 1GHz Test Setup





3.3 Radiated Emissions, above 1GHz Test Setup



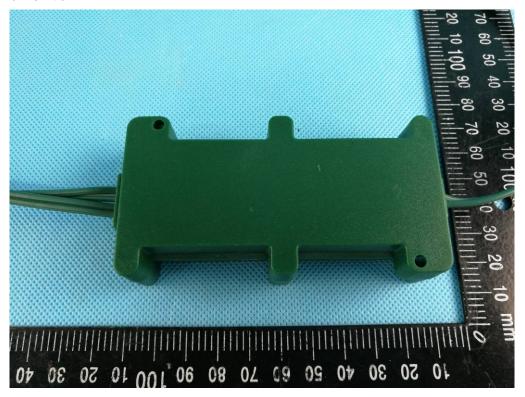
3.4 EUT Constructional Details

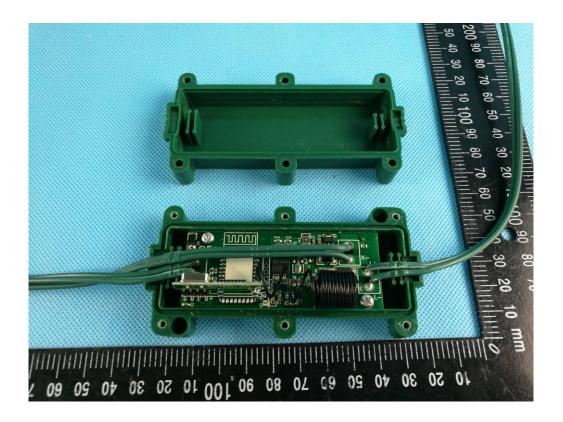
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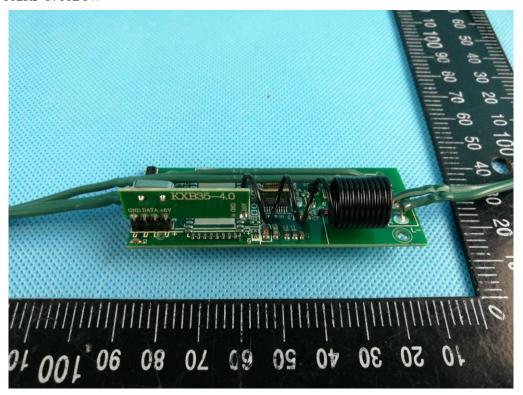
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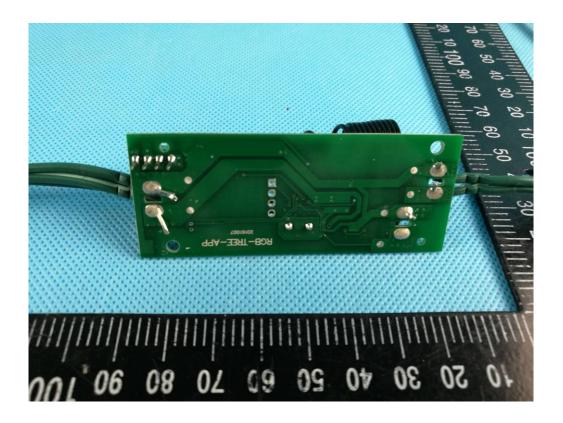




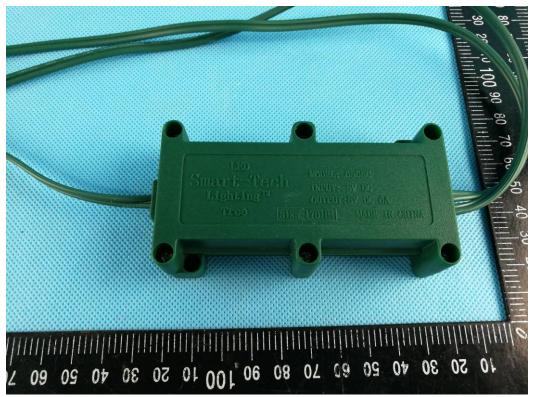


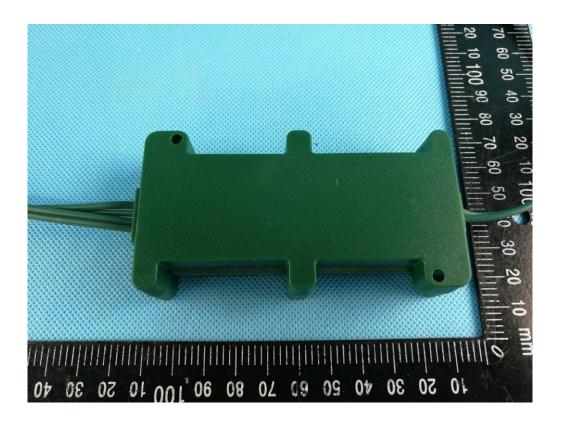
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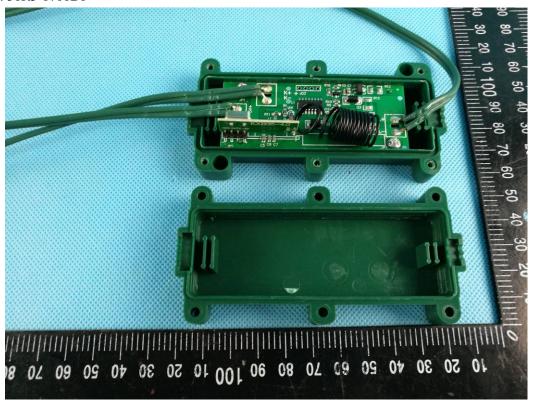


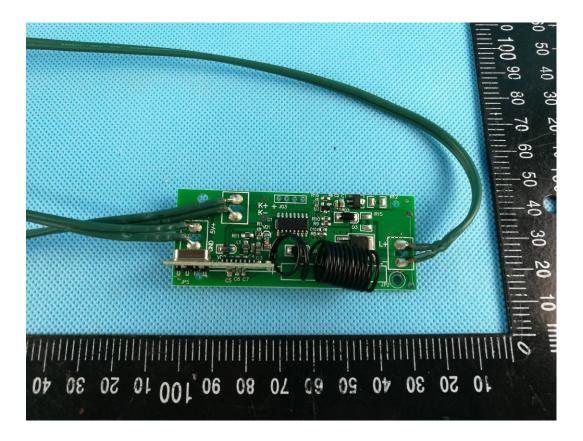


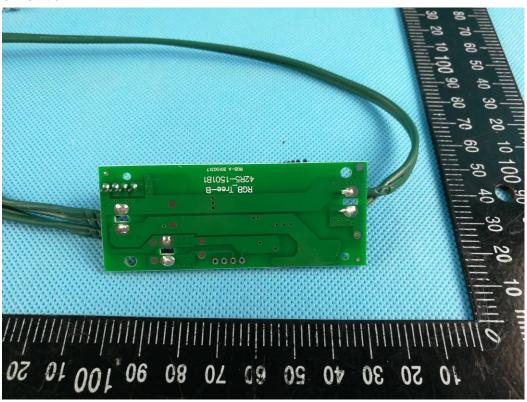


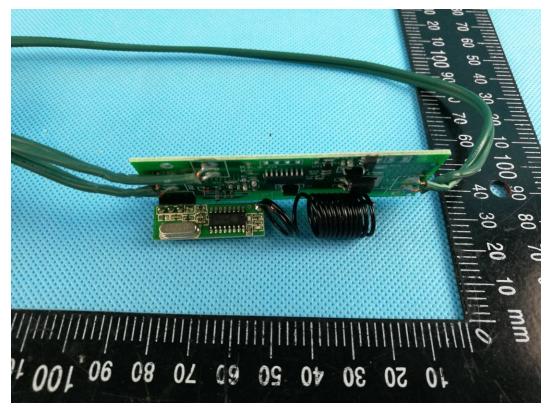












END OF THE TEST REPORT