

FCC TEST REPORT

For

LZHOME INC

LED Garage Light

Test Model: LZ-ZC-DK-CKD-W, LZ-W-8H-CKD

Additional Model No: Refer to Model list

Prepared for : LZHOME INC
Address : 10500 E 54TH AVE UNIT F DENVER, CO 80239

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : September 09, 2025
Number of tested samples : 1
Serial number : Prototype
Sample No. : C250901060
Date of Test : September 09, 2025 to September 15, 2025
Date of Report : September 16, 2025

TEST REPORT**Report No.** : **LCSC09015027E**

Date of Issue..... : September 16, 2025

Testing Laboratory Name..... : **Guangzhou LCS Compliance Testing Laboratory Ltd.**

Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Testing Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **LZHOME INC**

Address..... : 10500 E 54TH AVE UNIT F DENVER, CO 80239

Test SpecificationStandard..... : FCC 47 CFR Part 15, Subpart B
ANSI C63.4-2014

Test Report Form No..... : TRF-4-E-010 A/0

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

Master TRF..... : Dated 2011-03

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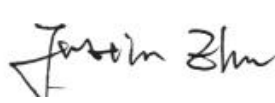
Test Item Description..... : **LED Garage Light**

Trade Mark..... : N/A

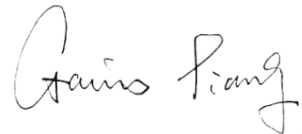
Test Model..... : LZ-ZC-DK-CKD-W, LZ-W-8H-CKD

Result..... : **Pass****Compiled by:**

Lifeng Le/ Administrator

Supervised by:

Justin Zhu/ Technique principal

Approved by:

Gavin Liang/ Manager

TEST REPORT

Test Report No.: LCSC09015027E	<u>September 16, 2025</u> Date of issue
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Test Model	: LZ-ZC-DK-CKD-W, LZ-W-8H-CKD
EUT.....	: LED Garage Light
Applicant	: LZHOME INC
Address.....	: 10500 E 54TH AVE UNIT F DENVER, CO 80239
Telephone.....	: /
Fax.....	: /
Manufacturer	: Shenzhen qichen lighting co., LTD
Address.....	: floor 2, Building A1, Zhongtai Industrial Park, Dezheng Road, Shilong Community, Shiyan Street, Baoan District
Telephone.....	: /
Fax.....	: /
Factory	: Shenzhen qichen lighting co., LTD
Address.....	: floor 2, Building A1, Zhongtai Industrial Park, Dezheng Road, Shilong Community, Shiyan Street, Baoan District
Telephone.....	: /
Fax.....	: /

Test Result	Pass
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	September 16, 2025	Initial Issue	/

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1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

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

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass

1.2 Description of Test Modes

No	Title	Description
TM1	Working(AC 120V/60Hz)	Record

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: LED Garage Light
Test Model	: LZ-ZC-DK-CKD-W, LZ-W-8H-CKD
Additional Model	: See Model List as below
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	: 100-277Vac, 50/60Hz, 18W
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < F_x \leq 108\text{MHz}$	1GHz
$108\text{MHz} < F_x \leq 500\text{MHz}$	2GHz
$500\text{MHz} < F_x \leq 1000\text{MHz}$	5GHz
$F_x > 1\text{GHz}$	5 x Fx up to a maximum of 40GHz

Model List:

Declared by applicant as follows:

- All models of drives use the same circuit and PCB layout.
- All models have similar appearance and structure except power.
- This report after information review and verification, the model "LZ-ZC-DK-CKD-W" were chosen as the representative model to perform all the tests.

Model	Input voltage	Input wattage of one lamp	Length	Note
LZ-ZC-DK-CKD-W	100-277Vac, 50/60Hz	18W	1.2 meters	-
LM-W-5H-CKD		9W	0.4 meters	All models are identical, except model name.
LZ-W-2H-CKD		9W	0.4 meters	
ZC-LZ-W-3H-CKD		9W	0.4 meters	
LZ-W-8H-CKD		9W	0.4 meters	

2.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
/	/	/	/	/

2.3 Description of Test Facility

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	± 2.35 dB
Radiated Emission (30MHz to 1000MHz)	± 3.48 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	N/A	N/A
Artificial Mains	R&S	ENV216	101288	2025-05-23	2026-05-22
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2025-05-23	2026-05-22
EMI Test Receiver	R&S	ESR3	102312	2025-03-06	2026-03-05

Radiated emissions (Below 1GHz) (Above 1GHz)

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	AUDIX	E3	/	N/A	N/A
By-log Antenna	SCHWARZBECK	VULB9163	01143	2024-07-20	2027-07-19
Horn Antenna	SCHWARZBECK	3115	EABF-018	2024-07-20	2027-07-19
EMI Test Receiver	R&S	ESR3	102311	2025-05-23	2026-05-22
Broadband Preamplifier	/	BBV9745	00317	2024-11-08	2025-11-07
EMI Test Receiver	R&S	ESCI7	101173	2024-10-08	2025-10-07
By-log Antenna	SchwarzZBECK	VULB9163	01565	2024-07-13	2027-07-12
EMI Test Software	Farad	EZ	/	N/A	N/A

4. EMISSION TEST RESULTS (EMI)

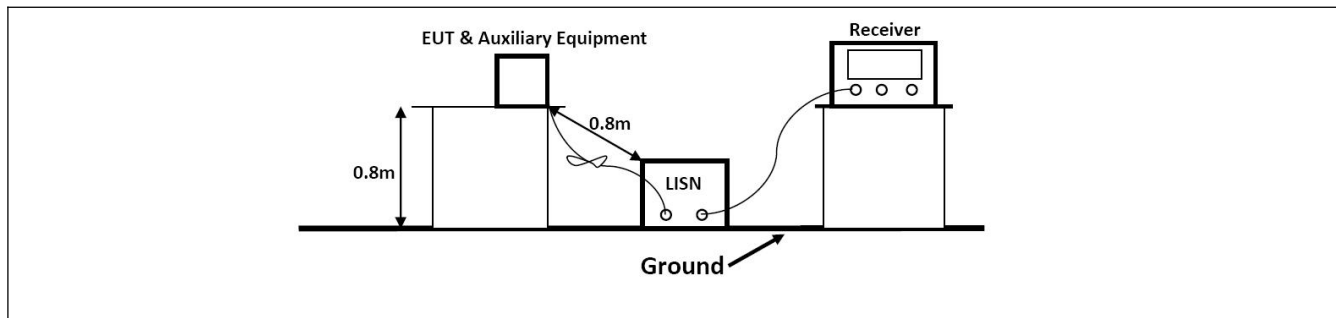
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

4.1.1 E.U.T. Operation:

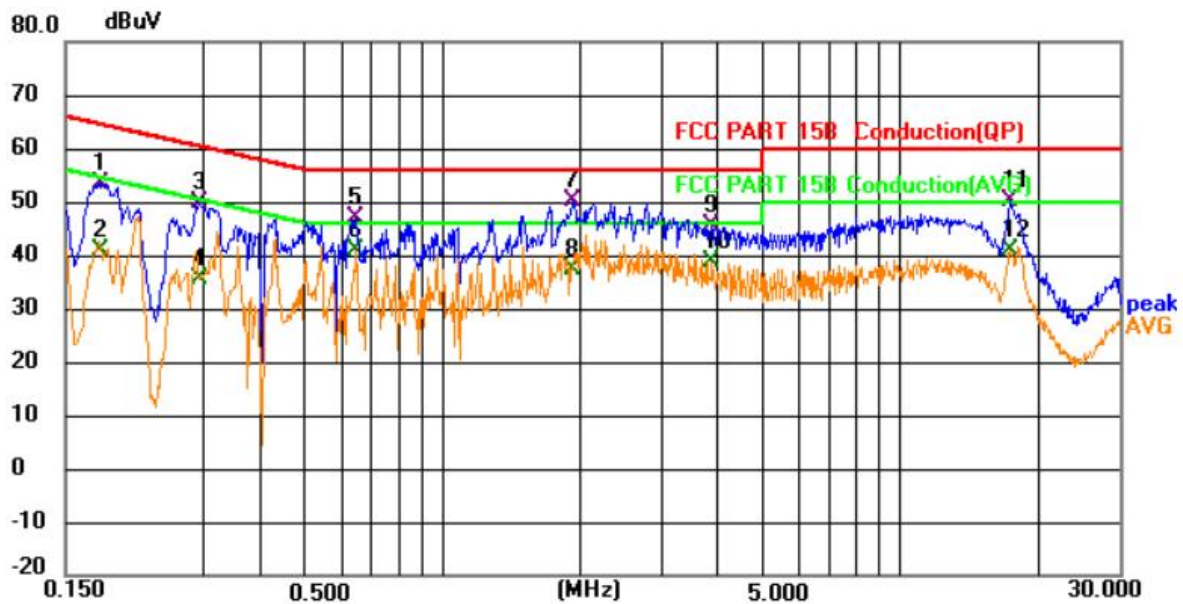
Operating Environment:			
Temperature:	22.5 °C	Humidity:	53.7 %
Pre test mode:	TM1		
Final test mode:	TM1		

4.1.2 Test Setup Diagram:



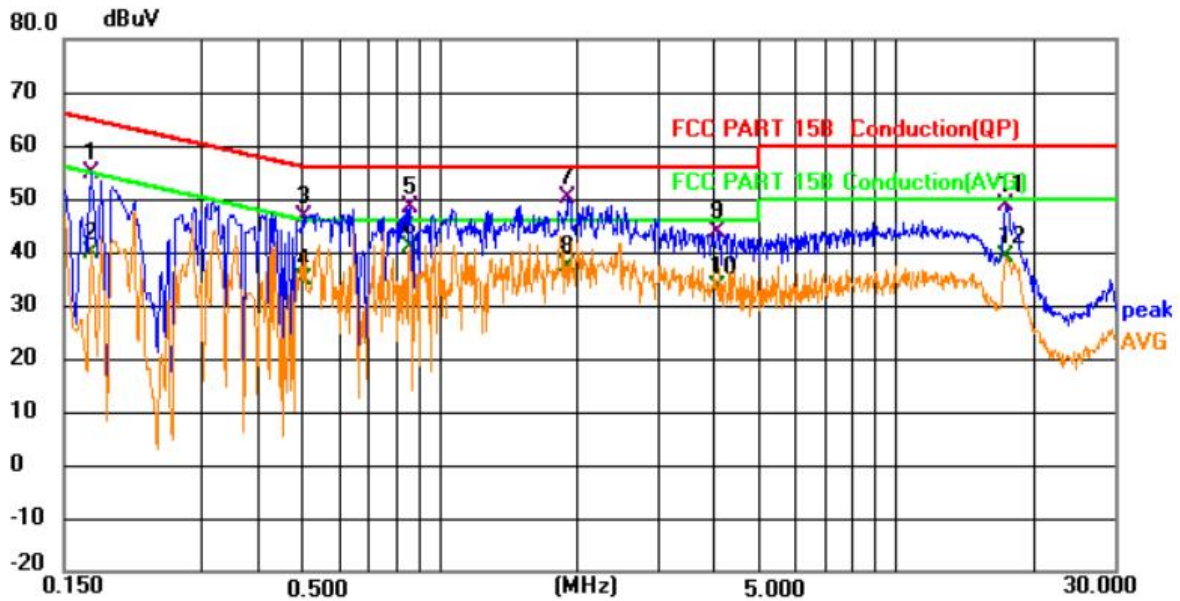
4.1.3 Test Data: LZ-ZC-DK-CKD-W

TM1 / Line: Line



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.180	33.79	19.74	53.53	64.49	-10.96	QP	
2	0.180	21.31	19.74	41.05	54.49	-13.44	AVG	
3	0.294	30.08	19.80	49.88	60.41	-10.53	QP	
4	0.294	15.60	19.80	35.40	50.41	-15.01	AVG	
5	0.649	27.56	19.38	46.94	56.00	-9.06	QP	
6 *	0.649	21.55	19.38	40.93	46.00	-5.07	AVG	
7	1.927	31.29	18.95	50.24	56.00	-5.76	QP	
8	1.927	18.46	18.95	37.41	46.00	-8.59	AVG	
9	3.876	26.26	19.17	45.43	56.00	-10.57	QP	
10	3.876	19.61	19.17	38.78	46.00	-7.22	AVG	
11	17.466	30.75	19.52	50.27	60.00	-9.73	QP	
12	17.466	21.31	19.52	40.83	50.00	-9.17	AVG	

TM1 / Line: Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.172	35.29	19.67	54.96	64.86	-9.90	QP	
2	0.172	20.00	19.67	39.67	54.86	-15.19	AVG	
3	0.501	27.35	19.38	46.73	56.00	-9.27	QP	
4	0.501	15.49	19.38	34.87	46.00	-11.13	AVG	
5	0.861	29.29	18.99	48.28	56.00	-7.72	QP	
6 *	0.861	22.04	18.99	41.03	46.00	-4.97	AVG	
7	1.914	31.05	19.12	50.17	56.00	-5.83	QP	
8	1.914	18.25	19.12	37.37	46.00	-8.63	AVG	
9	4.069	24.63	18.97	43.60	56.00	-12.40	QP	
10	4.069	14.59	18.97	33.56	46.00	-12.44	AVG	
11	17.354	29.32	19.41	48.73	60.00	-11.27	QP	
12	17.354	19.70	19.41	39.11	50.00	-10.89	AVG	

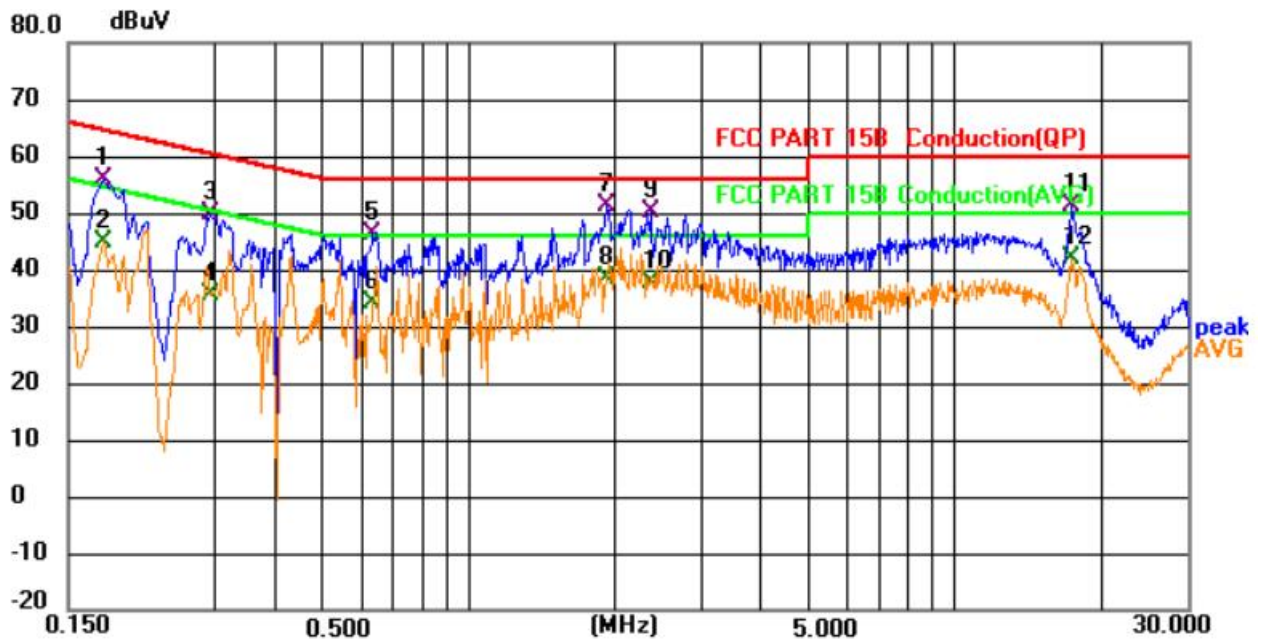
***Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor-Limit

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter

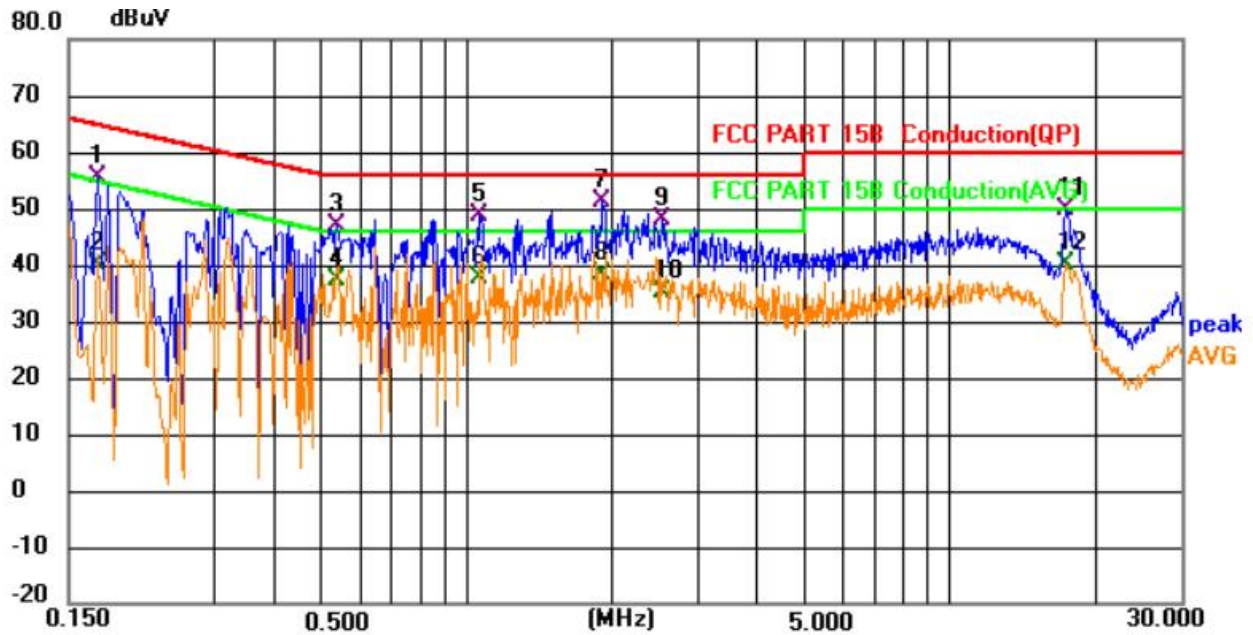
Test Data: LZ-W-8H-CKD

TM1 / Line: Line



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.177	36.14	19.76	55.90	64.63	-8.73	QP	
2	0.177	25.19	19.76	44.95	54.63	-9.68	AVG	
3	0.294	30.08	19.80	49.88	60.41	-10.53	QP	
4	0.294	15.60	19.80	35.40	50.41	-15.01	AVG	
5	0.636	26.67	19.42	46.09	56.00	-9.91	QP	
6	0.636	14.66	19.42	34.08	46.00	-11.92	AVG	
7 *	1.927	32.29	18.95	51.24	56.00	-4.76	QP	
8	1.927	19.46	18.95	38.41	46.00	-7.59	AVG	
9	2.360	31.08	19.05	50.13	56.00	-5.87	QP	
10	2.360	18.67	19.05	37.72	46.00	-8.28	AVG	
11	17.466	31.75	19.52	51.27	60.00	-8.73	QP	
12	17.466	22.31	19.52	41.83	50.00	-8.17	AVG	

TM1 / Line: Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.172	35.79	19.67	55.46	64.86	-9.40	QP	
2	0.172	20.50	19.67	40.17	54.86	-14.69	AVG	
3	0.537	27.47	19.41	46.88	56.00	-9.12	QP	
4	0.537	17.80	19.41	37.21	46.00	-8.79	AVG	
5	1.068	29.85	18.82	48.67	56.00	-7.33	QP	
6	1.068	19.01	18.82	37.83	46.00	-8.17	AVG	
7 *	1.914	32.05	19.12	51.17	56.00	-4.83	QP	
8	1.914	19.25	19.12	38.37	46.00	-7.63	AVG	
9	2.553	28.90	19.06	47.96	56.00	-8.04	QP	
10	2.553	16.08	19.06	35.14	46.00	-10.86	AVG	
11	17.354	30.32	19.41	49.73	60.00	-10.27	QP	
12	17.354	20.70	19.41	40.11	50.00	-9.89	AVG	

***Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor-Limit

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter

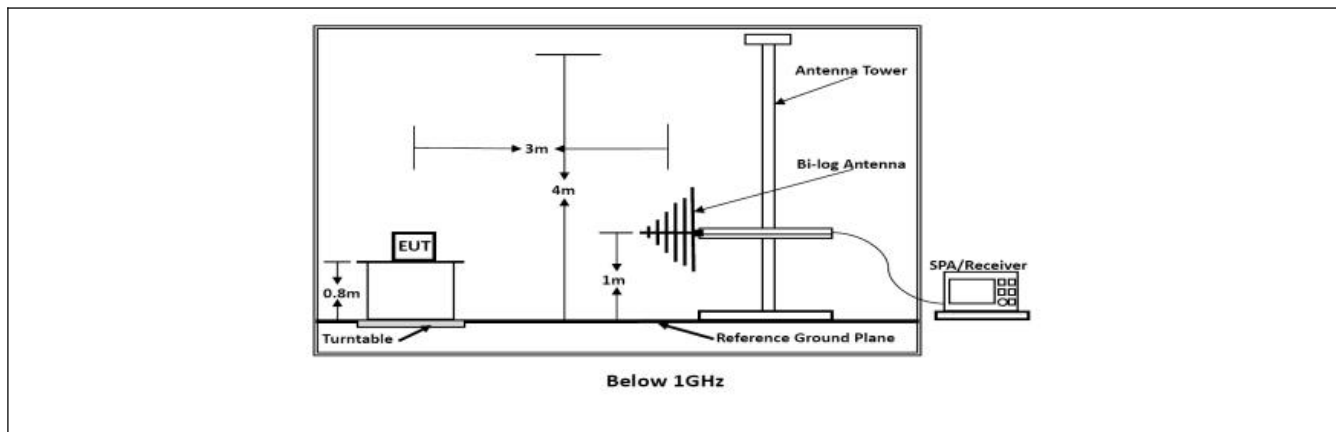
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B																																
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values: <table border="1"> <thead> <tr> <th rowspan="2">Frequency of emission (MHz)</th><th colspan="2">Field strength @3m</th><th colspan="2">Field strength @10m</th></tr> <tr> <th>(uV/m)</th><th>(dBuV/m)</th><th>(uV/m)</th><th>(dBuV/m)</th></tr> </thead> <tbody> <tr> <td>30 – 88</td><td>100</td><td>40</td><td>30</td><td>29.5</td></tr> <tr> <td>88 – 216</td><td>150</td><td>43.5</td><td>45</td><td>33.1</td></tr> <tr> <td>216 – 960</td><td>200</td><td>46</td><td>60</td><td>35.6</td></tr> <tr> <td>Above 960</td><td>500</td><td>54</td><td>150</td><td>43.5</td></tr> </tbody> </table>				Frequency of emission (MHz)	Field strength @3m		Field strength @10m		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)	30 – 88	100	40	30	29.5	88 – 216	150	43.5	45	33.1	216 – 960	200	46	60	35.6	Above 960	500	54	150	43.5
Frequency of emission (MHz)	Field strength @3m		Field strength @10m																														
	(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)																													
30 – 88	100	40	30	29.5																													
88 – 216	150	43.5	45	33.1																													
216 – 960	200	46	60	35.6																													
Above 960	500	54	150	43.5																													
Test Method:	ANSI C63.4-2014																																
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor																																

4.2.1 E.U.T. Operation:

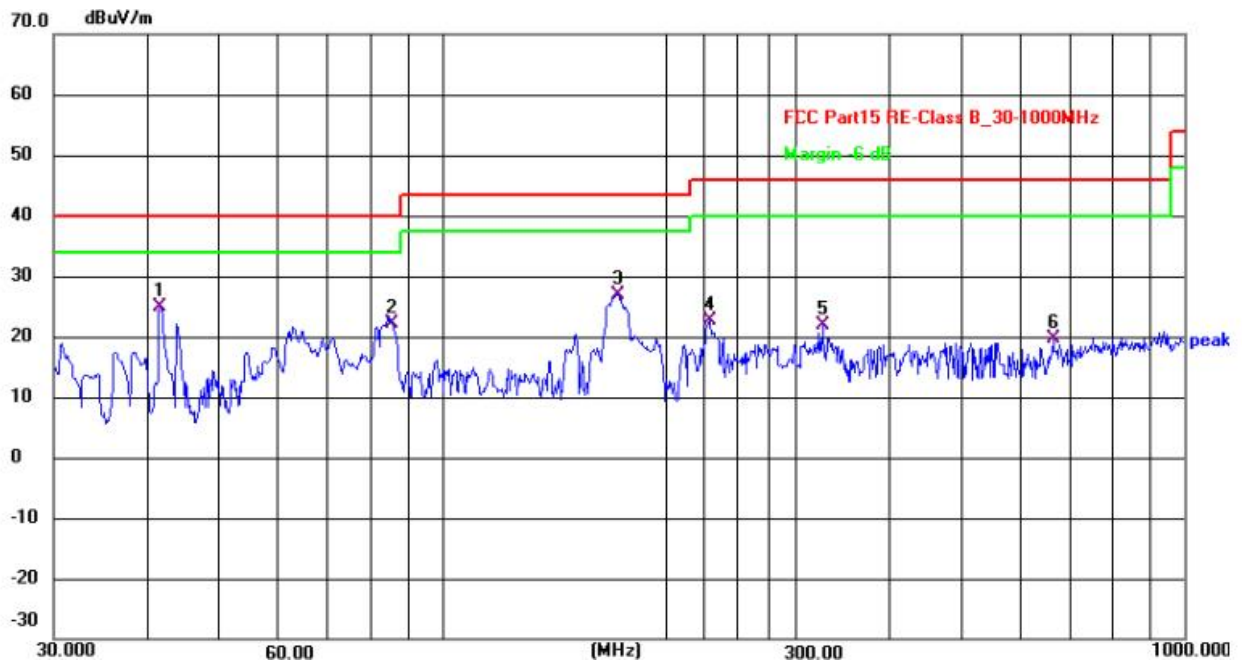
Operating Environment:			
Temperature:	23.8 °C	Humidity:	52.3 %
Pre test mode:	TM1		
Final test mode:	TM1		

4.2.2 Test Setup Diagram:



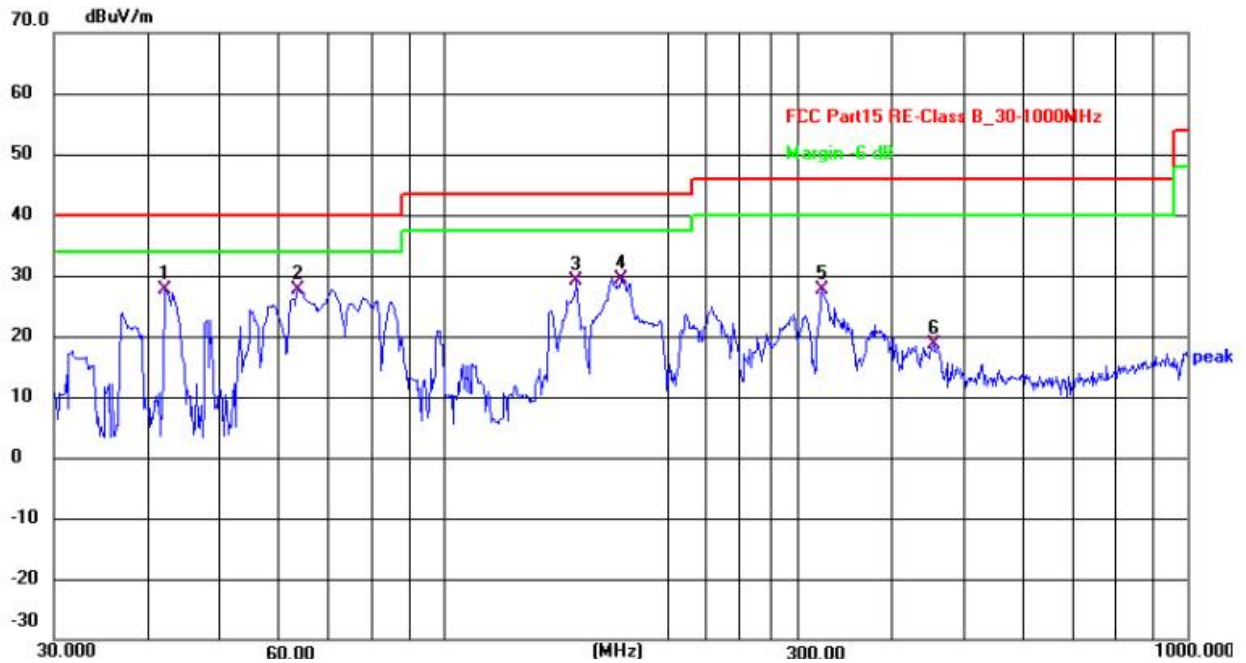
4.2.3 Test Data: LZ-ZC-DK-CKD-W

TM1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	41.7129	42.30	-17.32	24.98	40.00	-15.02	QP	
2		85.5973	41.57	-19.32	22.25	40.00	-17.75	QP	
3		172.5987	46.31	-19.31	27.00	43.50	-16.50	QP	
4		229.2930	39.29	-16.55	22.74	46.00	-23.26	QP	
5		325.5957	36.15	-14.21	21.94	46.00	-24.06	QP	
6		665.8034	30.70	-11.06	19.64	46.00	-26.36	QP	

TM1 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	42.3021	44.98	-17.24	27.74	40.00	-12.26	QP	
2		63.7588	46.80	-19.09	27.71	40.00	-12.29	QP	
3		151.0663	48.97	-19.81	29.16	43.50	-14.34	QP	
4		173.2050	48.71	-19.26	29.45	43.50	-14.05	QP	
5		323.3201	41.83	-14.28	27.55	46.00	-18.45	QP	
6		455.9057	33.00	-14.45	18.55	46.00	-27.45	QP	

Note:1).Pre-Scan all mode, Thus record worse case mode result in this report.

2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor

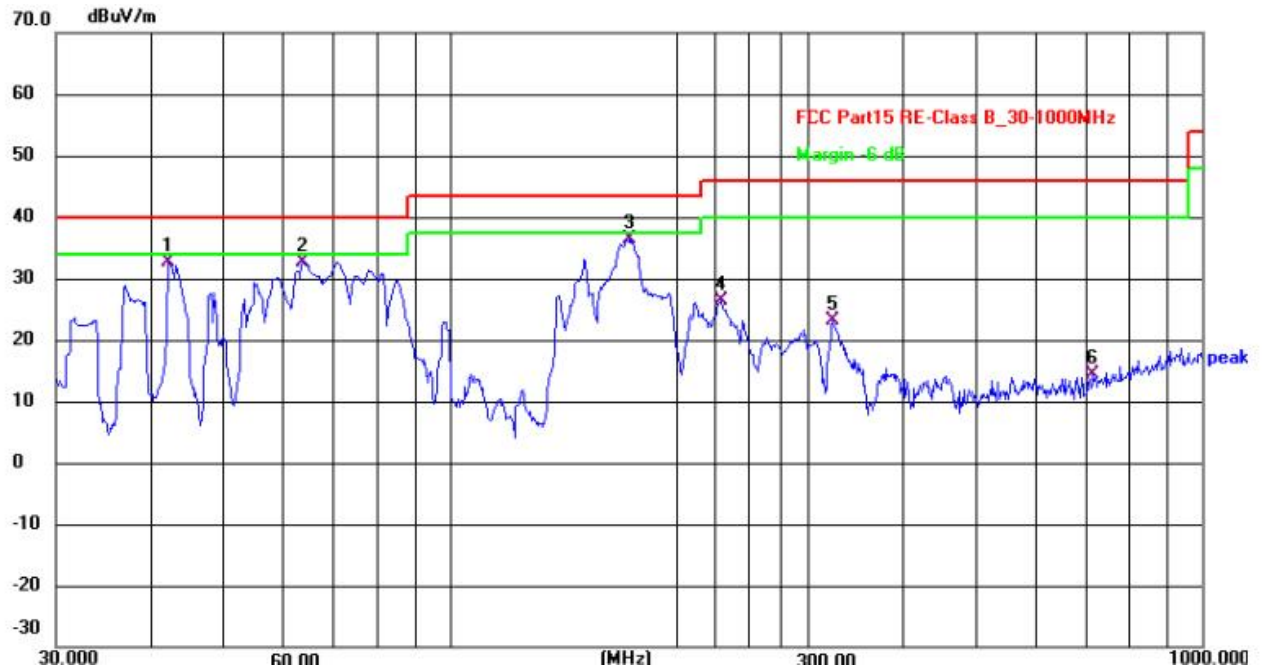
Test Data: LZ-W-8H-CKD

TM1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	41.7129	49.80	-17.32	32.48	40.00	-7.52	QP	
2		85.2980	51.29	-19.35	31.94	40.00	-8.06	QP	
3		172.5987	53.31	-19.31	34.00	43.50	-9.50	QP	
4		229.2930	42.79	-16.55	26.24	46.00	-19.76	QP	
5		346.8091	32.19	-14.78	17.41	46.00	-28.59	QP	
6		938.8324	26.86	-8.06	18.80	46.00	-27.20	QP	

TM1 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		42.3021	49.98	-17.24	32.74	40.00	-7.26	QP	
2		63.7588	51.80	-19.09	32.71	40.00	-7.29	QP	
3	*	173.2050	55.71	-19.26	36.45	43.50	-7.05	QP	
4		230.0985	42.91	-16.52	26.39	46.00	-19.61	QP	
5		323.3201	37.33	-14.28	23.05	46.00	-22.95	QP	
6		716.6820	25.14	-10.66	14.48	46.00	-31.52	QP	

Note:1).Pre-Scan all mode, Thus record worse case mode result in this report.

2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor

5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSC09015027E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSC09015027E.docx

--- End of Report ---