

Prüfbericht-Nr.: <i>Test report No.:</i>	50355260 001	Auftrags-Nr.: <i>Order No.:</i>	168155818	Seite 1 von 20 <i>Page 1 of 20</i>	
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	10.03.2020		
Auftraggeber: <i>Client:</i>	LEEDARSON LIGHTING CO., LTD. Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China				
Prüfgegenstand: <i>Test item:</i>	Fan & Light Switch (Red Series)				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	LZW36-S				
Auftrags-Inhalt: <i>Order content:</i>	FCC&IC approval				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Section 2.1091 FCC KDB Publication 447498 D01 v06				
Wareneingangsdatum: <i>Date of receipt:</i>	12.03.2020	Please refer to photo documents			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A001073099-001 to 016				
Prüfzeitraum: <i>Testing period:</i>	30.03.2020 - 08.04.2020				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
 28.05.2020 Alex Lan / Senior Project Engineer		 28.05.2020 Winnie Hou / Technical Certifier			
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
FCC ID: 2AB2QLZW36-S					
IC: 10256A-LZW36S, HVIN: LZW36-S					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FUNDAMENTAL & HARMONICS RADIATED EMISSION

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 99% BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION & BAND EDGE

RESULT: Pass

5.1.6 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

Contents

1	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS.....	4
2	TEST SITES.....	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	7
2.4	CALIBRATION.....	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	7
2.7	STATUS OF FACILITY USED FOR TESTING	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE	8
3.2	RATINGS AND SYSTEM DETAILS.....	8
3.3	INDEPENDENT OPERATION MODES.....	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES.....	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	14
5.1.1	<i>Antenna Requirement.....</i>	<i>14</i>
5.1.2	<i>Fundamental & Harmonics Radiated Emission</i>	<i>15</i>
5.1.3	<i>20dB Bandwidth</i>	<i>16</i>
5.1.4	<i>99% Bandwidth.....</i>	<i>17</i>
5.1.5	<i>Radiated Spurious Emission & Band Edge</i>	<i>18</i>
5.1.6	<i>Conducted Emission on AC Mains.....</i>	<i>19</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	20
7	LIST OF TABLES.....	20

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing (TS8997)					
Equip. No.	Equipment	Manufacturer	Model	Serial No.	Cal. until
1825795	Signal Analyzer	R&S	FSV 40	101441	20.08.2020
1825798	OSP	R&S	OSP 150	101017	17.12.2020
1825799	Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
1825800	Test Software	R&S	WMS32 (V10.50.10)	N/A	N/A
1825801	Power Meter	R&S	NRP2	107105	17.12.2020
1825802	Wideband Power Sensor	R&S	NRP-Z81	105350	17.12.2020
1826431	Shielding Room 8#	Albatross	SR8	APC17151-SR8	23.07.2020
Unwanted Emission Testing (TS9975)					
Equip. No.	Equipment	Manufacturer	Model	Serial No.	Cal. until
1826021	EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
1826023	Signal Analyzer	R&S	FSV 40	101439	21.08.2020
1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A
1826025	Filterbank	R&S	Wlan	100759	21.08.2020
1826026	OSP	R&S	OSP 120	102040	N/A
1826028	Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
1826029	Amplifier	R&S	SCU-18F	180070	20.08.2020
1826030	Amplifier	R&S	SCU40A	100475	20.09.2020
1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	02.09.2020
1826032	Double-Ridged Antenna (1 - 18 GHz)	ETS-LINDGREN	3117	00218717	02.09.2020
1826033	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	02.09.2020
1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
1826035	Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2020
1826036	Test software	R&S	EMC32 (V10.50.40)	N/A	N/A
1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	06.07.2020

Conducted Emission on AC Mains

Equip. No.	Equipment	Manufacturer	Model	Serial No.	Cal. until
1822625	EMI Test Receiver	R&S	ESR3	102428	03.09.2020
1822627	Artificial Mains Network	R&S	ENV216	102333	19.08.2020
1822626	Artificial Mains Network	R&S	ENV432	101411	19.08.2020
1822629	Attenuator	R&S	ESH2Z31	100300	19.08.2020
1825090	EMC32 test software	R&S	EMC32(Ver.10.5 0.01)	N/A	N/A

Radiated Emission (3m chamber)

Equip. No.	Equipment	Manufacturer	Model No.	Serial No.	Cali. until
1822620	3m SAC	ETS	SAC3	CT001632-Q1362	23.08.2021
1825044	EMI Test Receiver	R&S	ESR7	102111	04.01.2021
1825004	Horn Antenna	R&S	HF907	102706	01.09.2020
1825005	Preamplifier	FIT	SCU-18F	180077	19.08.2020
1825006	Active magnetic loop antenna	SCHWARZBEC K	FMZB1519B	00080	20.08.2020
1825042	Trilog-Broadband antenna	SCHWARZBEC K	VULB9168	0945	12.09.2020
1825072	Switching Controller Interface	R&S	OSP 120	102039	N/A
1825090	EMC32 test software	R&S	EMC32(Ver.10.5 0.01)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is Fan & Light Switch (Red Series), it supports Z-wave and general 2.4GHz wireless technologies.

For details, refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Fan & Light Switch (Red Series)
Type Designation	LZW36-S
FCC ID	2AB2QLZW36-S
IC:	10256A-LZW36S
HVIN:	LZW36-S
Operating Voltage	AC 120V, 60Hz
Testing Voltage	AC 120V, 60Hz
Technical Specification of Z-Wave	
Operating Frequency Band	902-928MHz
Operating Frequency Channel	908.42MHz, 908.42MHz, 916MHz
Channel Number	3 channel
Type of Modulation	FSK for 908.42MHz, 908.42MHz GFSK for 916MHz
Antenna Type	Monopole antenna
Antenna number	1
Antenna Gain	0.8 dBi Max
Technical Specification of General 2.4GHz	
Operating Frequency Band	2400-2483.5MHz
Operating Frequency Channel	2403-2478MHz
Channel Number	78 channel
Channel Space	1MHz
Type of Modulation	GFSK
Antenna Type	IFA antenna
Antenna number	1
Antenna Gain	-5 dBi Max

Table 3: RF Channel and Frequency, General 2.4GHz

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2403	19	2422	38	2441	57	2460
1	2404	20	2423	39	2442	58	2461
2	2405	21	2424	40	2443	59	2462
3	2406	22	2425	41	2444	60	2463
4	2407	23	2426	42	2445	61	2464
5	2408	24	2427	43	2446	62	2465
6	2409	25	2428	44	2447	63	2466
7	2410	26	2429	45	2448	64	2467
8	2411	27	2430	46	2449	65	2468
9	2412	28	2431	47	2450	66	2469
10	2413	29	2432	48	2451	67	2470
11	2414	30	2433	49	2452	68	2471
12	2415	31	2434	50	2453	69	2472
13	2416	32	2435	51	2454	70	2473
14	2417	33	2436	52	2455	71	2474
15	2418	34	2437	53	2456	72	2475
16	2419	35	2438	54	2457	73	2476
17	2420	36	2439	55	2458	74	2477
18	2421	37	2440	56	2459	75	2478

Test frequencies are lowest channel: 2403 MHz, middle channel: 2440 MHz and highest channel: 2478 MHz

Table 4: RF Channel and Frequency, Z-Wave

RF Channel	Frequency (MHz)
0	908.4
1	908.42
2	916

Test frequencies are lowest channel: 908 MHz, middle channel: 908.42 MHz and highest channel: 916 MHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, General 2.4GHz Transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Z-Wave Transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- C. On, Normal Running mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-----------------|
| - Application Form | - Schematics |
| - Operation Description | - Block Diagram |
| - ID Label and Location Info | - User Manual |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

4.3 Special Accessories and Auxiliary Equipment

N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

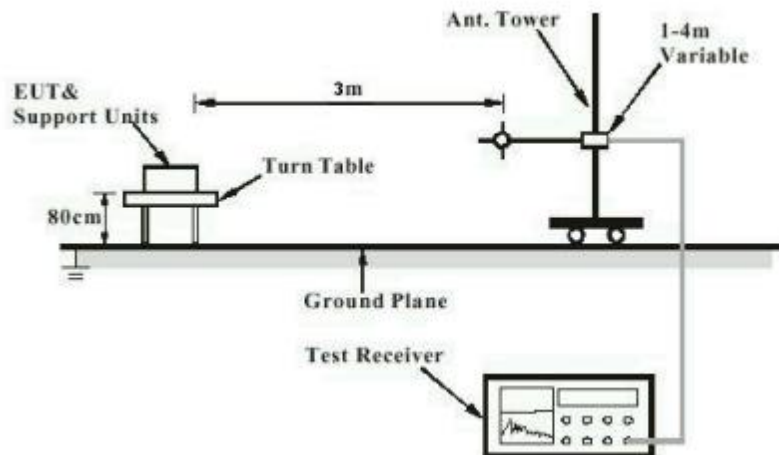


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

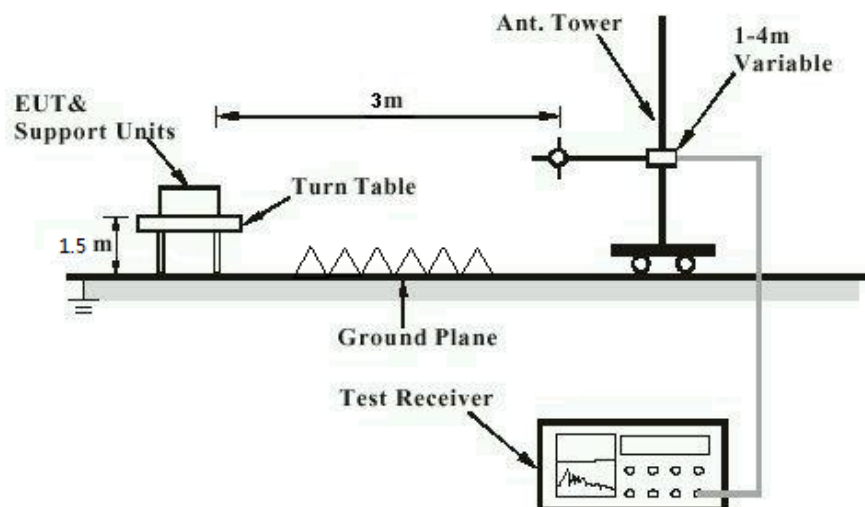


Diagram of Measurement Configuration for Mains Conduction Measurement

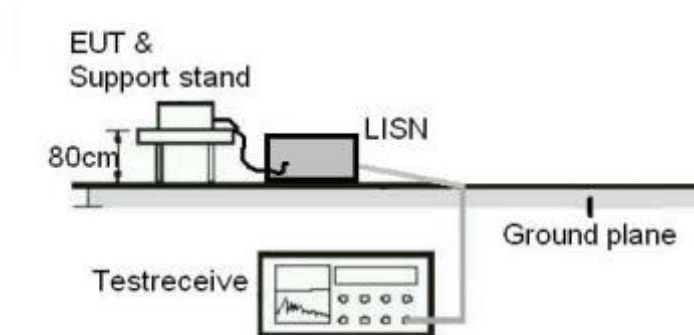
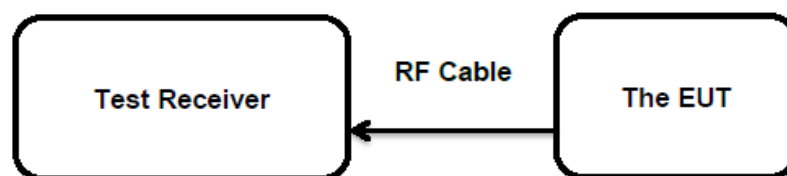


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has two internal antenna, the directional gain of antenna are 0.8 dBi for Z-Wave and -5dBi for General 2.4GHz, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Fundamental & Harmonics Radiated Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249(a), RSS-210
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to FCC Part 15.209(a) RSS-210 Annex B.10(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 30.03.2020
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 42 %
Atmospheric pressure	: 100 kPa

For the measurement records, refer to the appendix B.

5.1.3 20dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.215
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 01.04.2020
Input voltage : AC 120V, 60Hz
Operation mode : A, B
Ambient temperature : 23 °C
Relative humidity : 42 %
Atmospheric pressure : 100 kPa

For the measurement records, refer to the appendix B.

5.1.4 99% Bandwidth**RESULT:****Pass****Test Specification**

Test standard : RSS-Gen Section 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 01.04.2020
Input voltage : AC 120V, 60Hz
Operation mode : A, B
Ambient temperature : 23 °C
Relative humidity : 42 %
Atmospheric pressure : 100 kPa

For the measurement records, refer to the appendix B.

5.1.5 Radiated Spurious Emission & Band Edge

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249 (d) & FCC Part 15.205 RSS-210 Annex B.10(b)
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.249(d) RSS-Gen Clause 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 30.03.2020
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B, A+B
Ambient temperature	: 24 °C
Relative humidity	: 45 %
Atmospheric pressure	: 100 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

5.1.6 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 02.04.2020
Input voltage	: AC 120V/60Hz
Operation mode	: C
Earthing	: Not connected
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Technical Specification of EUT.....	8
Table 3: RF Channel and Frequency, General 2.4GHz	9
Table 4: RF Channel and Frequency, Z-Wave.....	9

Appendix B: Test Results

APPENDIX B: TEST RESULTS	1
For Z-Wave	2
For General 2.4GHz	14
APPENDIX B.2: TEST RESULTS OF 20dB BANDWIDTH	26
Test Result of 20dB Bandwidth, Z-Wave	26
Test Result of 20dB Bandwidth, General 2.4GHz	28
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	30
Test Result of 99% Bandwidth, Z-Wave	30
Test Result of 99% Bandwidth, General 2.4GHz	32
APPENDIX B.4: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	34
For General 2.4GHz	34
APPENDIX B.5: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	38

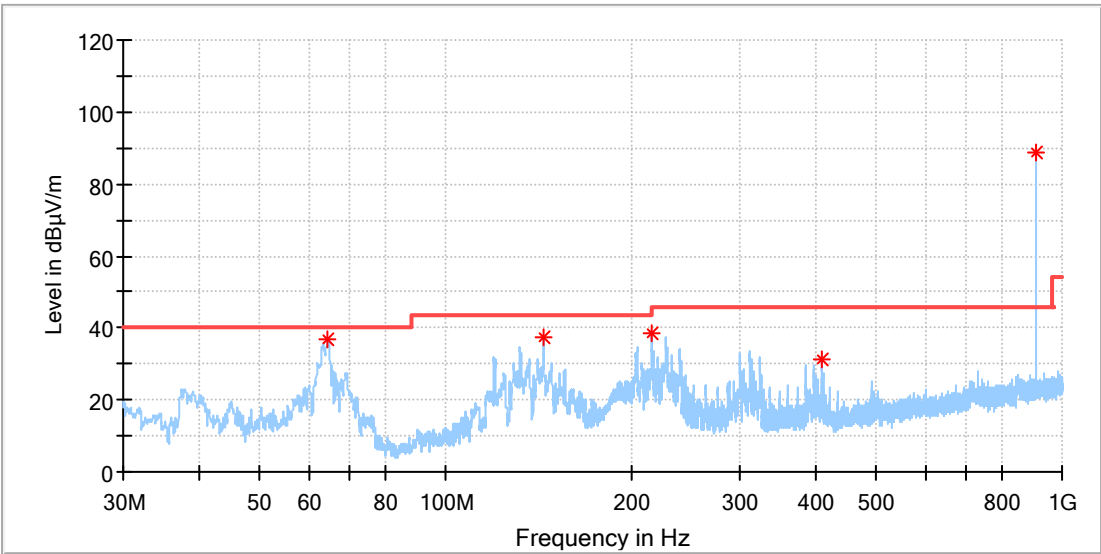
Note: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, therefore only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Fundamental & Harmonics Radiated Emission

For Z-Wave

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



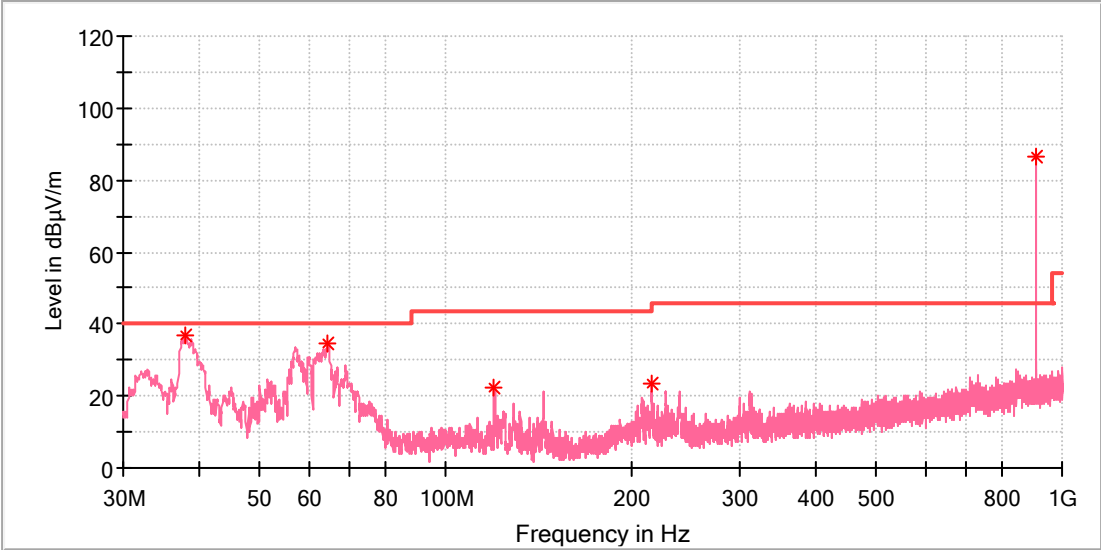
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
64.483500	36.80	---	40.00	3.20	100.0	H	330.0	-20.3
144.120500	37.16	---	43.50	6.34	100.0	H	94.0	-22.6
215.852000	38.78	---	43.50	4.72	100.0	H	4.0	-19.0
407.960500	31.43	---	46.00	14.57	100.0	H	77.0	-14.0
908.383500	88.78	---	94.00	5.22	100.0	H	304.0	-5.3

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



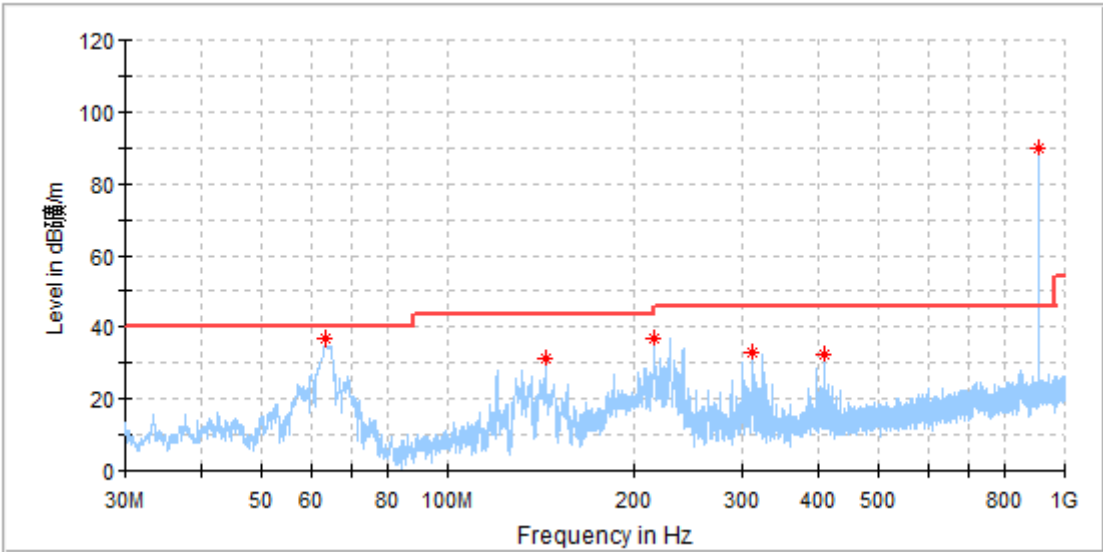
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.905500	36.94	---	40.00	3.06	100.0	V	0.0	-21.1
64.532000	34.45	---	40.00	5.55	100.0	V	290.0	-20.3
120.064500	22.44	---	43.50	21.06	100.0	V	339.0	-21.1
216.143000	23.63	---	46.00	22.37	100.0	V	298.0	-19.0
908.383500	86.70	---	94.00	7.70	100.0	V	281.0	-5.3

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



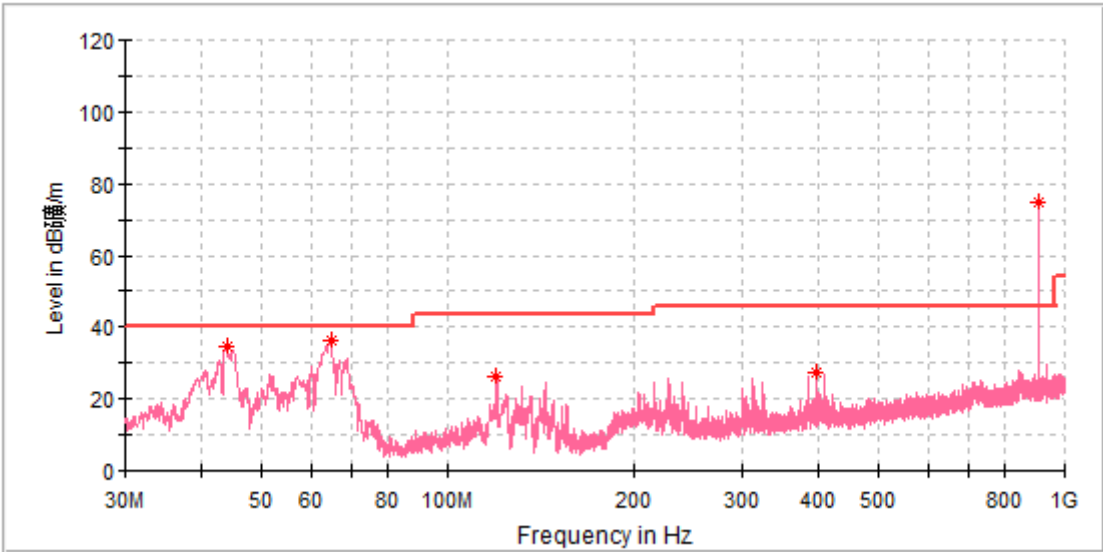
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.416500	36.99	---	40.00	3.01	100.0	H	0.0	-20.1
143.975000	31.41	---	43.50	12.09	100.0	H	321.0	-22.6
216.337000	37.01	---	46.00	8.99	100.0	H	0.0	-19.0
312.076000	33.20	---	46.00	12.80	100.0	H	0.0	-16.3
407.766500	32.61	---	46.00	13.39	100.0	H	270.0	-14.0
908.432000	89.79	---	94.00	4.21	100.0	H	346.0	-5.3

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

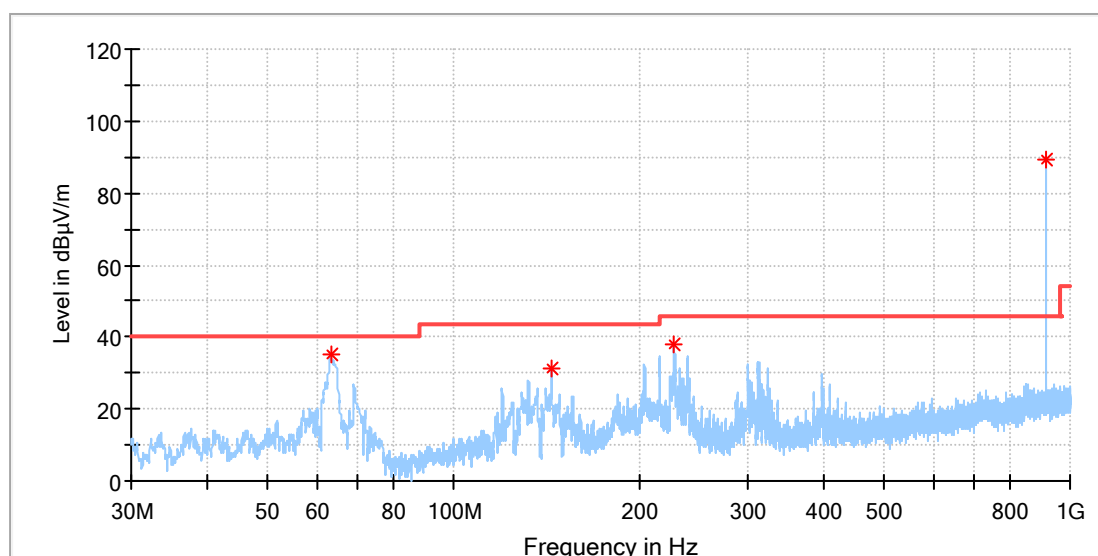


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.774000	34.55	---	40.00	5.45	100.0	V	170.0	-19.4
64.629000	36.29	---	40.00	3.71	100.0	V	234.0	-20.3
119.967500	26.17	---	43.50	17.33	100.0	V	178.0	-21.1
395.981000	27.10	---	46.00	18.90	100.0	V	63.0	-14.2
908.480500	74.91	---	94.00	19.09	100.0	V	307.0	-5.3

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Test Mode: TX_High Channel
Test Voltage:: AC 120V/60Hz
Remark: Temp 23 Humi:42%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



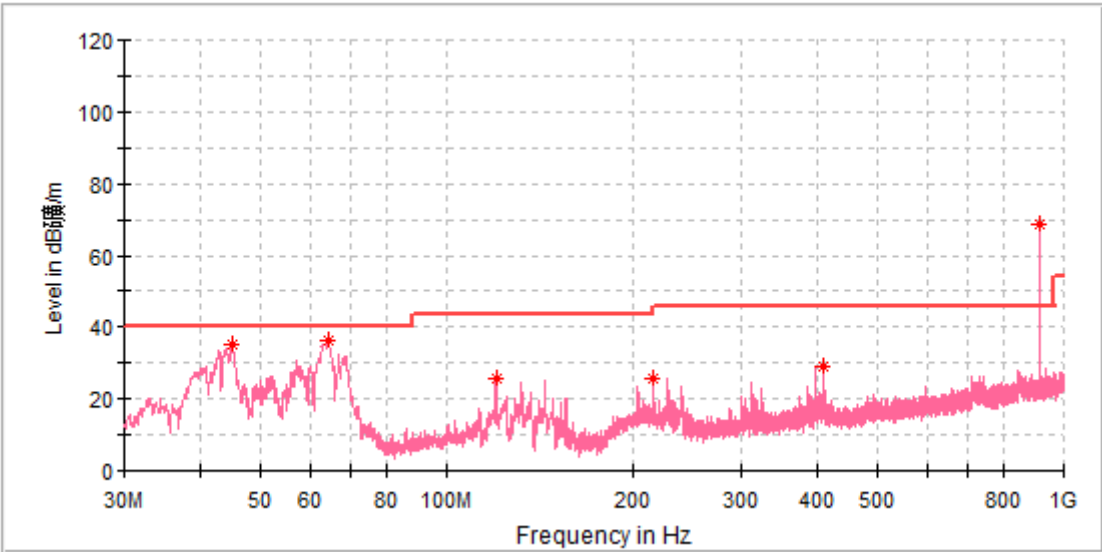
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.271000	35.00	---	40.00	5.00	100.0	H	191.0	-20.0
144.217500	31.17	---	43.50	12.33	100.0	H	269.0	-22.6
228.074000	37.70	---	46.00	8.30	100.0	H	209.0	-18.5
915.998000	89.45	---	94.00	4.55	100.0	H	270.0	-5.3

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



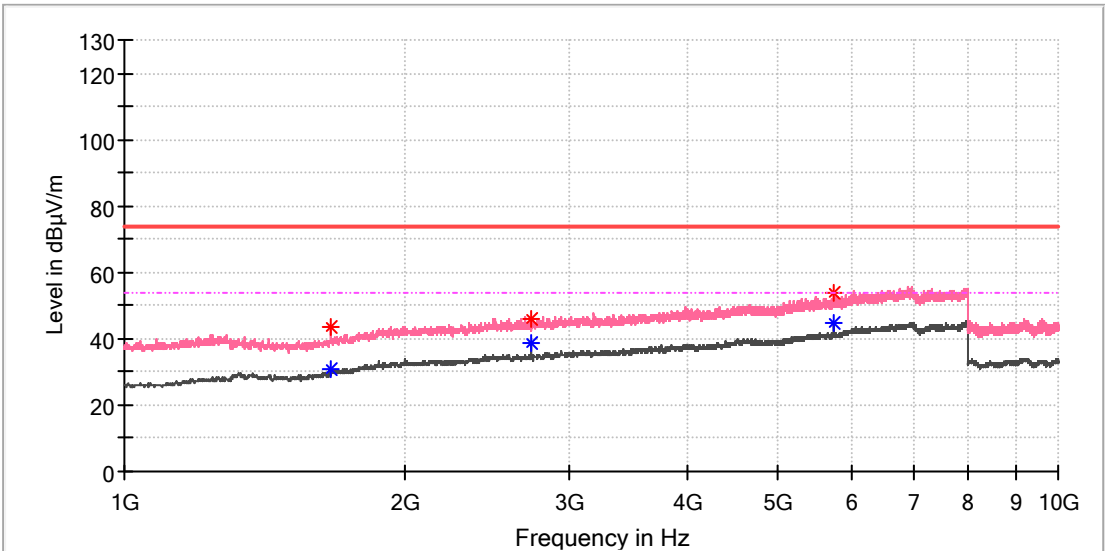
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.938000	34.93	---	40.00	5.07	100.0	V	125.0	-19.2
64.532000	36.34	---	40.00	3.66	100.0	V	257.0	-20.3
120.355500	25.83	---	43.50	17.67	100.0	V	175.0	-21.1
216.385500	25.65	---	46.00	20.35	100.0	V	314.0	-19.0
408.542500	29.02	---	46.00	16.98	100.0	V	108.0	-13.9
916.046500	68.87	---	94.00	25.13	100.0	V	29.0	-5.3

Produkte
Products

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Test Mode: TX_Low Channel
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:42%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

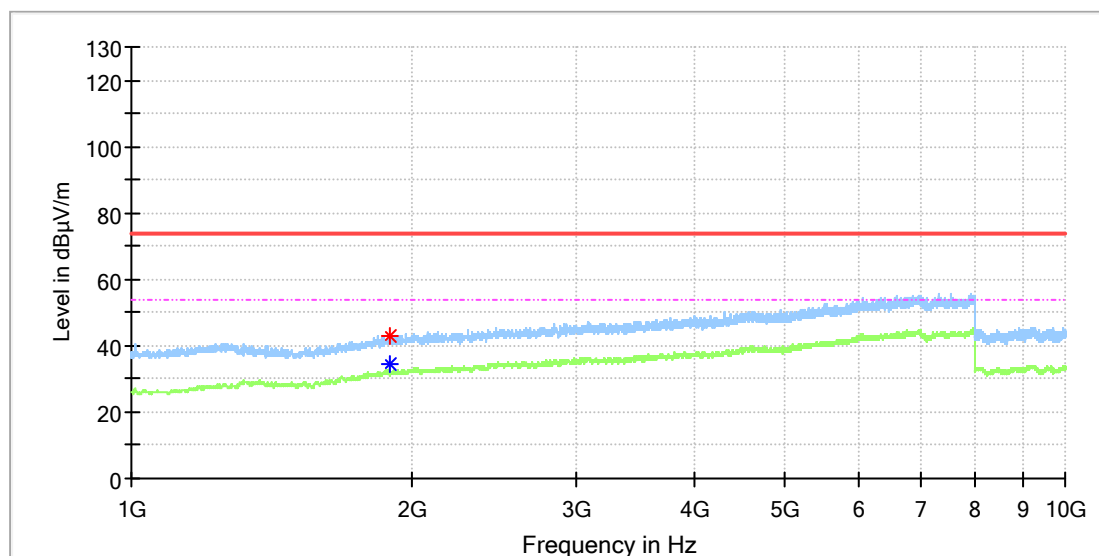


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1664.312500	---	30.91	54.00	23.09	100.0	V	223.0	2.8
1664.312500	43.38	---	74.00	30.62	100.0	V	223.0	2.8
2724.587500	---	38.90	54.00	15.10	100.0	V	53.0	7.7
2729.612500	46.22	---	74.00	27.78	100.0	V	53.0	7.7
5747.125000	---	45.04	54.00	8.96	100.0	V	204.0	13.9
5747.125000	53.89	---	74.00	20.11	100.0	V	204.0	13.9

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Test Mode: TX_Low Channel
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:42%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

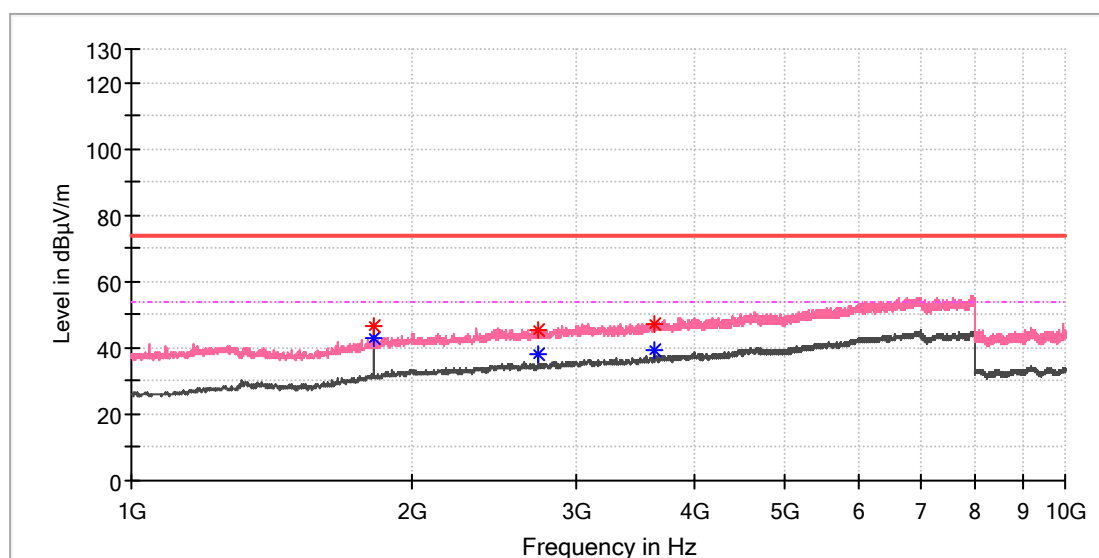


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1889.600000	---	34.19	54.00	19.81	100.0	H	41.0	5.5
1895.462500	43.21	---	74.00	30.79	100.0	H	154.0	5.5

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



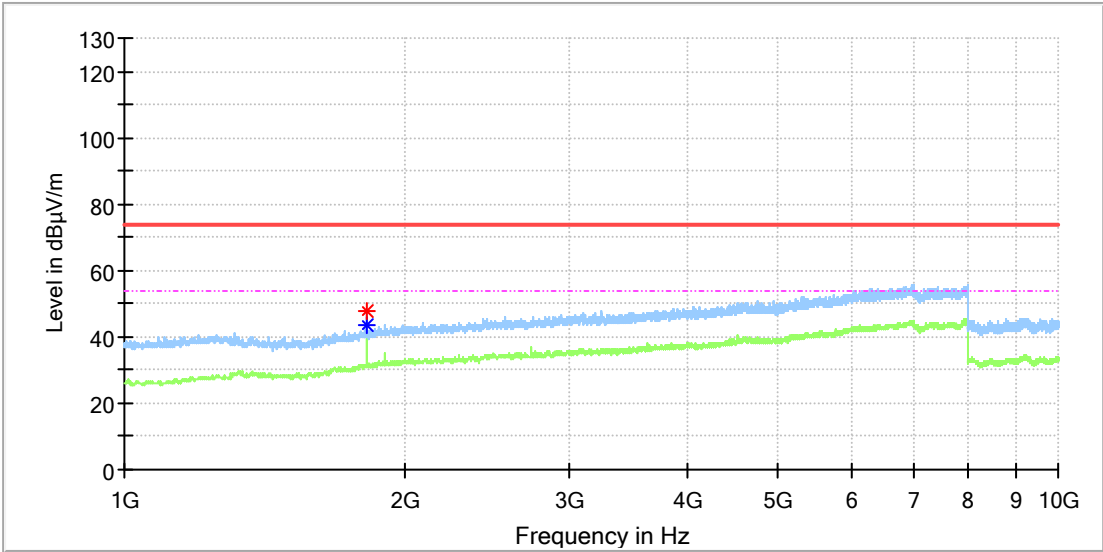
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1816.737500	46.60	---	74.00	27.40	100.0	V	111.0	4.8
1816.737500	---	43.07	54.00	10.93	100.0	V	111.0	4.8
2725.425000	45.06	---	74.00	28.94	100.0	V	26.0	7.7
2725.425000	---	38.27	54.00	15.73	100.0	V	26.0	7.7
3633.275000	46.95	---	74.00	27.05	100.0	V	26.0	9.4
3633.275000	---	39.37	54.00	14.63	100.0	V	26.0	9.4

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

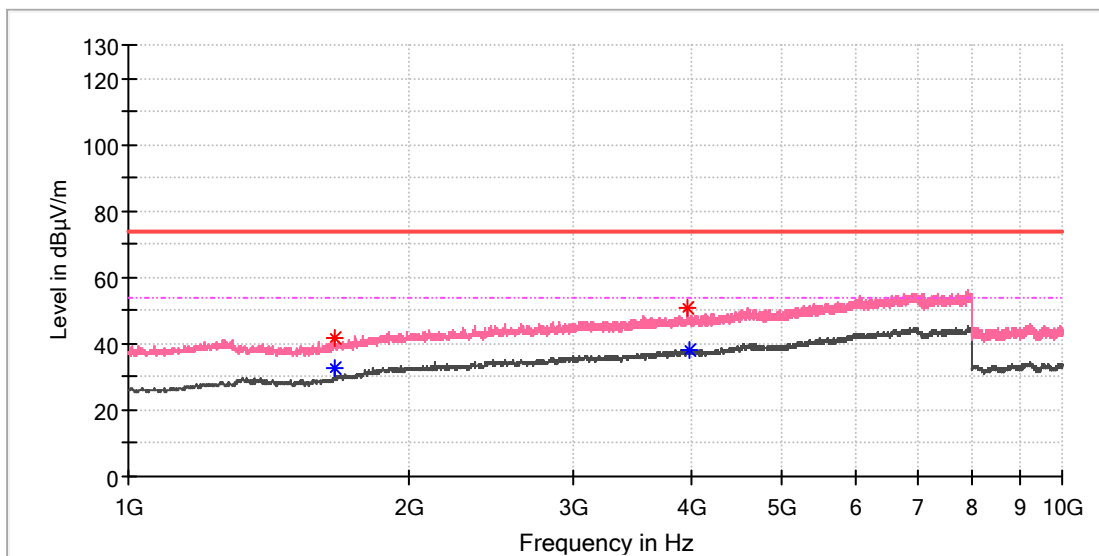


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1815.900000	47.79	---	74.00	26.21	100.0	H	32.0	4.8
1816.737500	---	43.80	54.00	10.20	100.0	H	32.0	4.8

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Test Mode: TX_High Channel
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:42%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



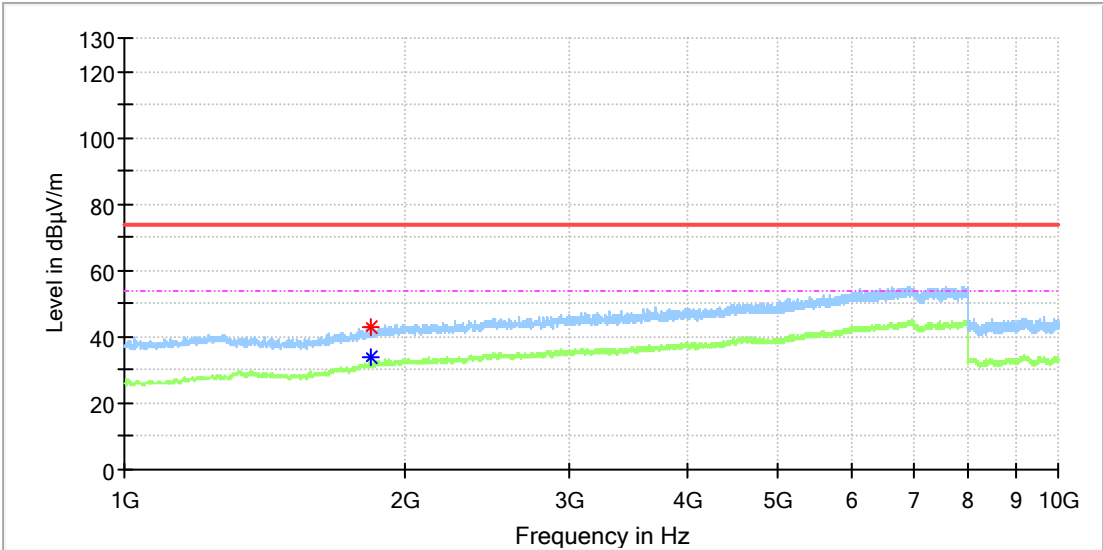
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1664.312500	41.76	---	74.00	32.24	100.0	V	183.0	2.8
1664.312500	---	32.36	54.00	21.64	100.0	V	183.0	2.8
3967.437500	50.97	---	74.00	23.03	100.0	V	164.0	10.1
3982.512500	---	38.13	54.00	15.87	100.0	V	312.0	10.1

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



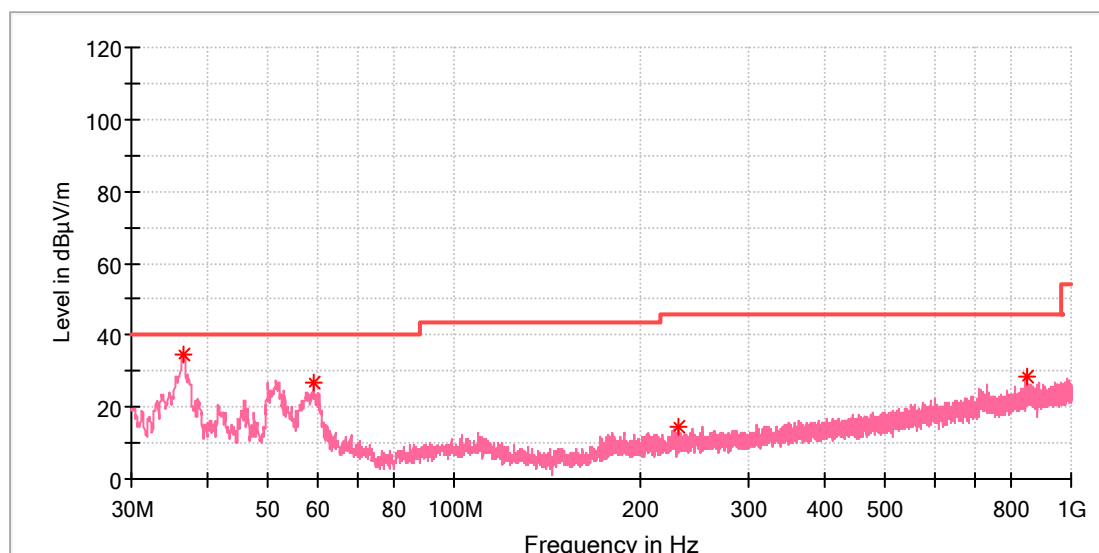
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1831.812500	---	33.60	54.00	20.40	100.0	H	177.0	4.9
1836.837500	42.67	---	74.00	31.33	100.0	H	158.0	4.9

For General 2.4GHz

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

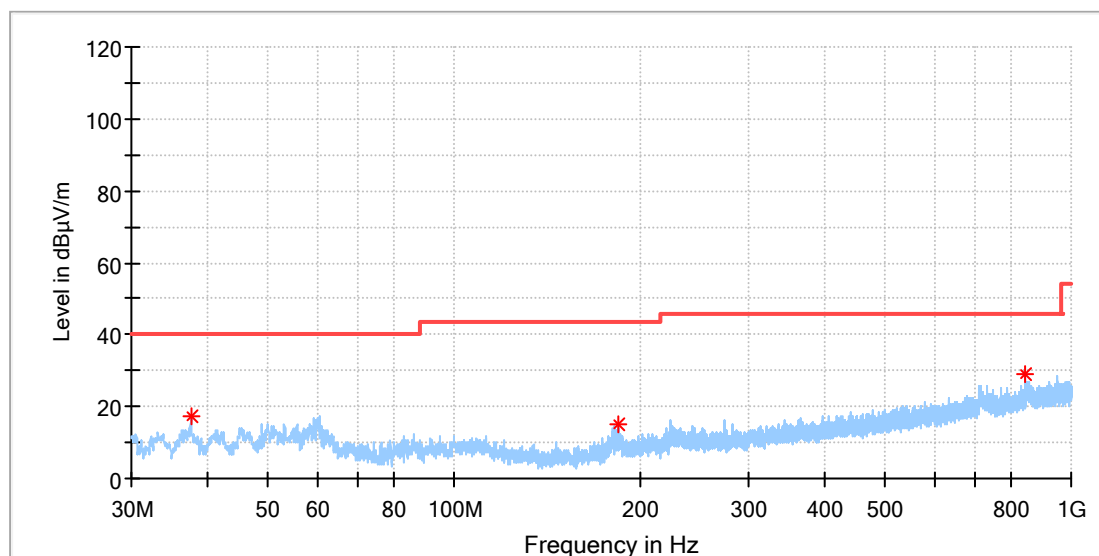


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.499000	34.53	---	40.00	5.47	100.0	V	329.0	-21.6
59.342500	26.84	---	40.00	13.16	100.0	V	102.0	-19.2
230.208000	14.54	---	46.00	31.46	100.0	V	353.0	-18.4
846.400500	28.33	---	46.00	17.67	100.0	V	247.0	-6.0

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Test Mode: TX_Low Channel
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:42%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



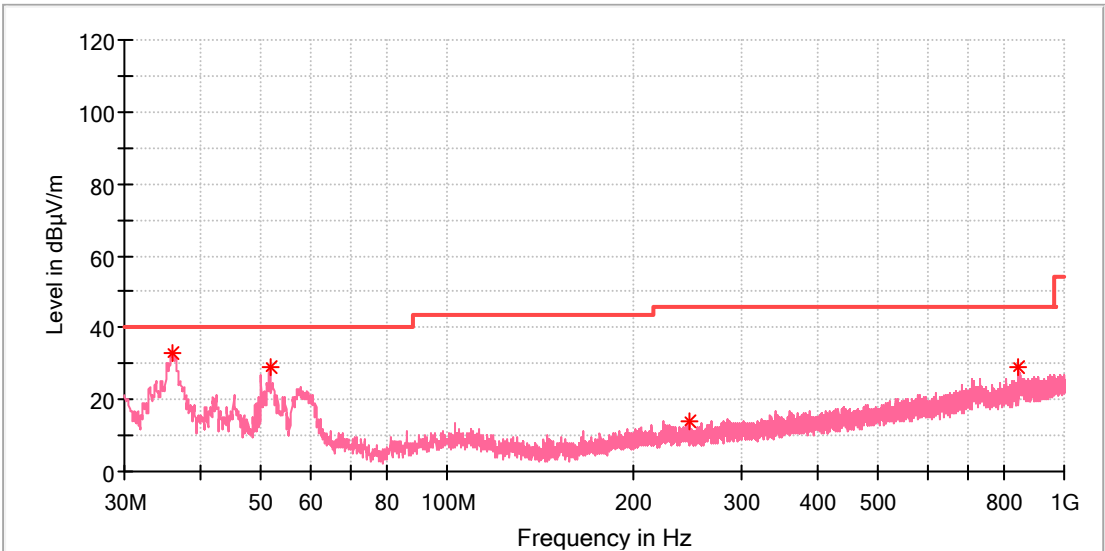
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	17.31	---	40.00	22.69	100.0	H	203.0	-21.3
184.424000	14.96	---	43.50	28.54	100.0	H	162.0	-20.4
844.848500	28.83	---	46.00	17.17	100.0	H	324.0	-6.0

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



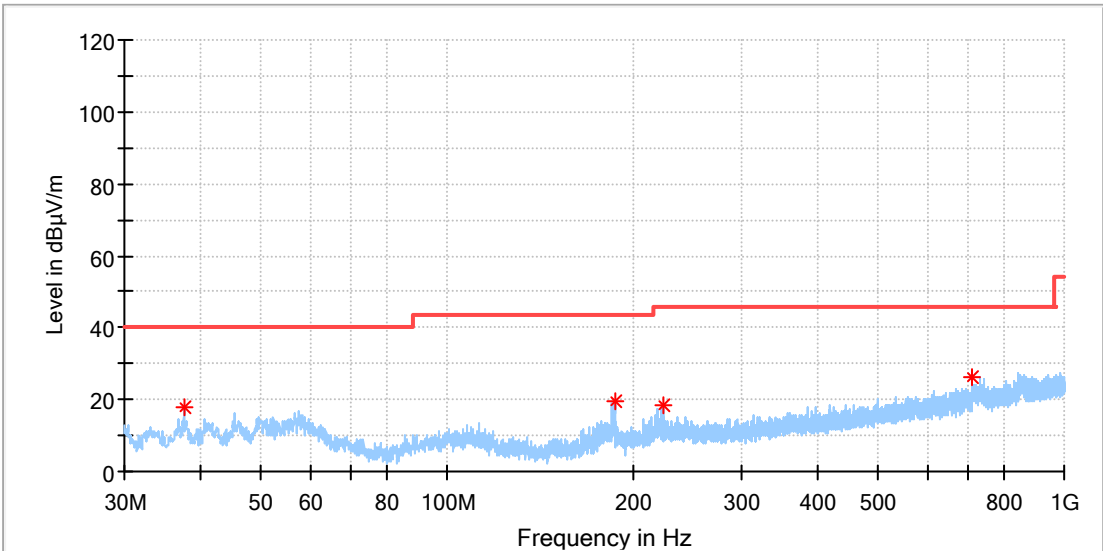
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.868500	33.19	---	40.00	6.81	100.0	V	0.0	-21.9
51.631000	28.93	---	40.00	11.07	100.0	V	178.0	-18.6
247.474000	14.16	---	46.00	31.84	100.0	V	145.0	-17.8
845.091000	28.90	---	46.00	17.10	100.0	V	96.0	-6.0

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

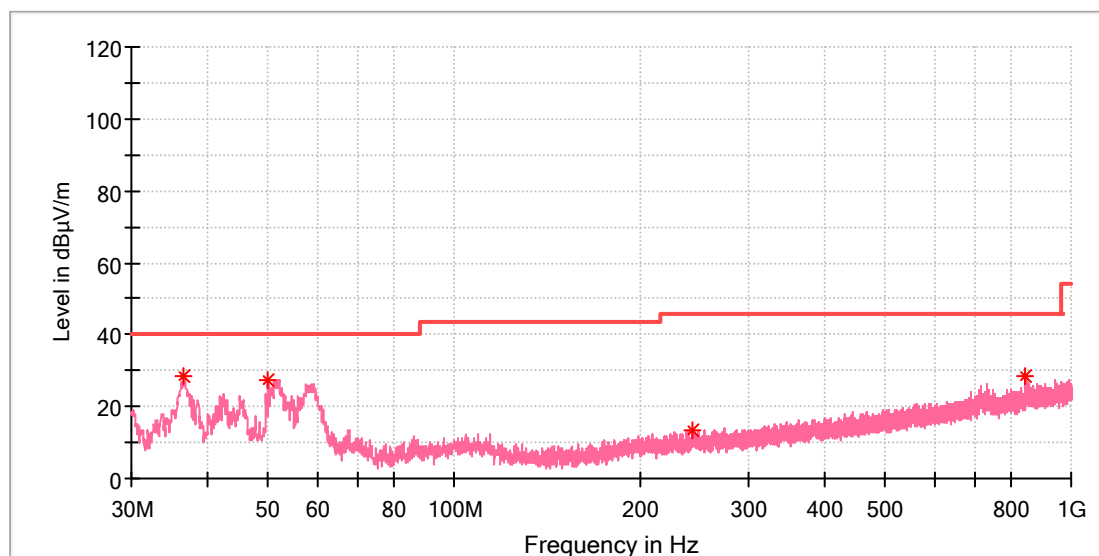


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	17.77	---	40.00	22.23	100.0	H	182.0	-21.3
186.800500	19.29	---	43.50	24.21	100.0	H	124.0	-20.2
223.515000	18.25	---	46.00	27.75	100.0	H	329.0	-18.7
709.048500	26.10	---	46.00	19.90	100.0	H	0.0	-8.3

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

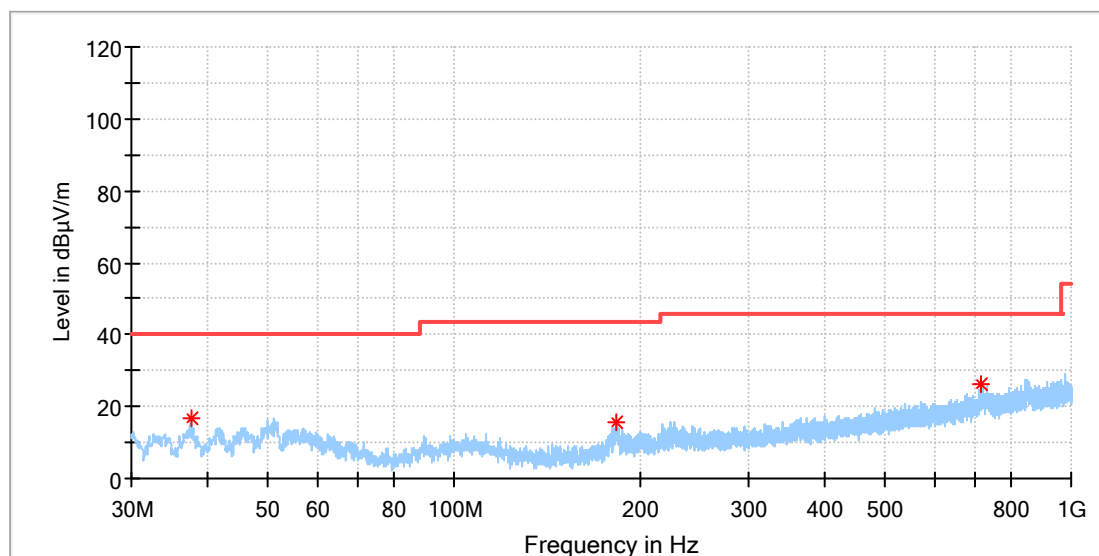


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.450500	28.44	---	40.00	11.56	100.0	V	20.0	-21.7
49.982000	27.46	---	40.00	12.54	100.0	V	70.0	-18.6
243.400000	13.45	---	46.00	32.55	100.0	V	193.0	-17.9
844.848500	28.67	---	46.00	17.33	100.0	V	0.0	-6.0

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

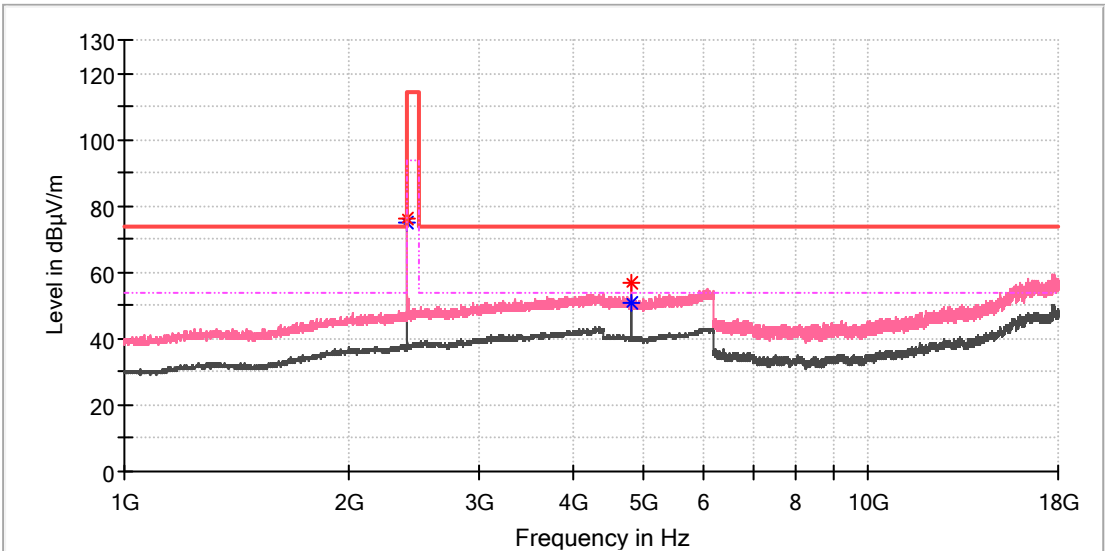


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	16.90	---	40.00	23.10	100.0	H	338.0	-21.3
183.696500	15.89	---	43.50	27.61	100.0	H	118.0	-20.5
714.044000	26.47	---	46.00	19.53	100.0	H	346.0	-8.2

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

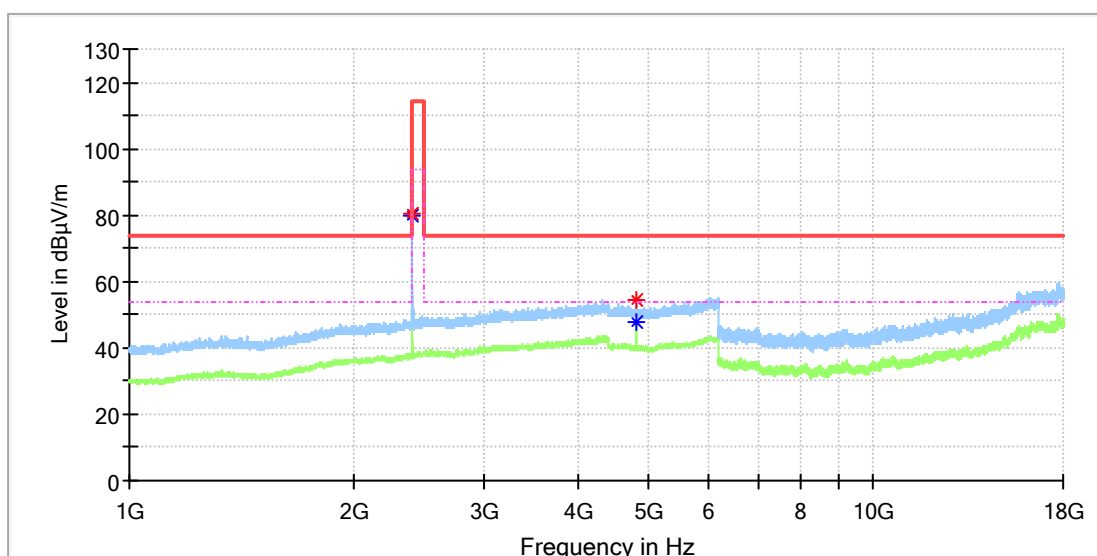


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	76.20	---	114.00	37.80	100.0	V	292.0	7.0
2403.000000	---	75.16	94.00	18.84	100.0	V	292.0	7.0
4805.000000	---	50.67	54.00	3.33	100.0	V	177.0	13.6
4805.500000	57.11	---	74.00	16.89	100.0	V	177.0	13.6

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



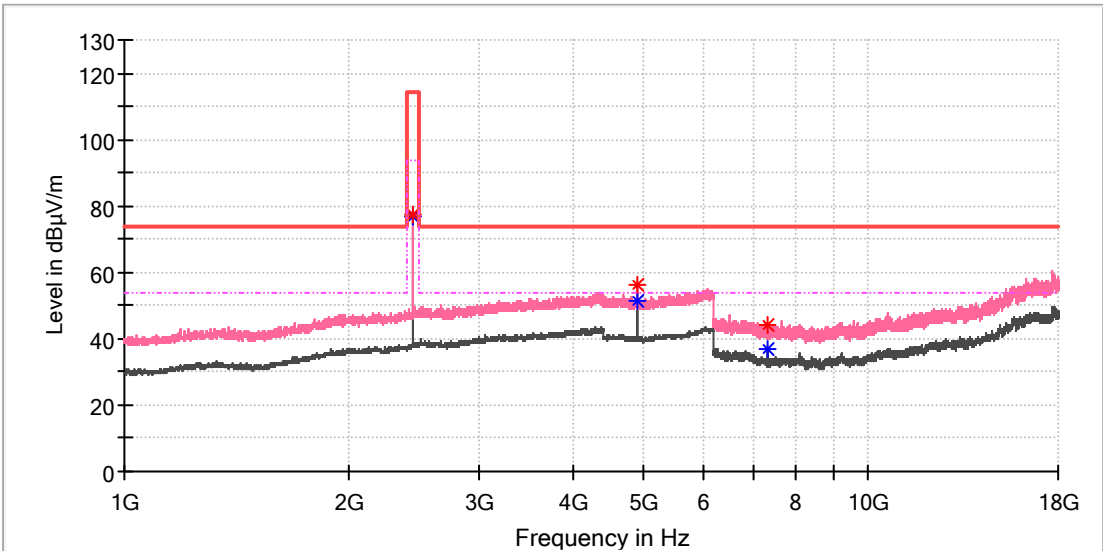
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2403.000000	---	79.86	94.00	14.14	100.0	H	110.0	7.0
2403.000000	80.54	---	114.00	33.46	100.0	H	110.0	7.0
4805.500000	54.13	---	74.00	19.88	100.0	H	95.0	13.6
4806.000000	---	48.06	54.00	5.94	100.0	H	358.0	13.6

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



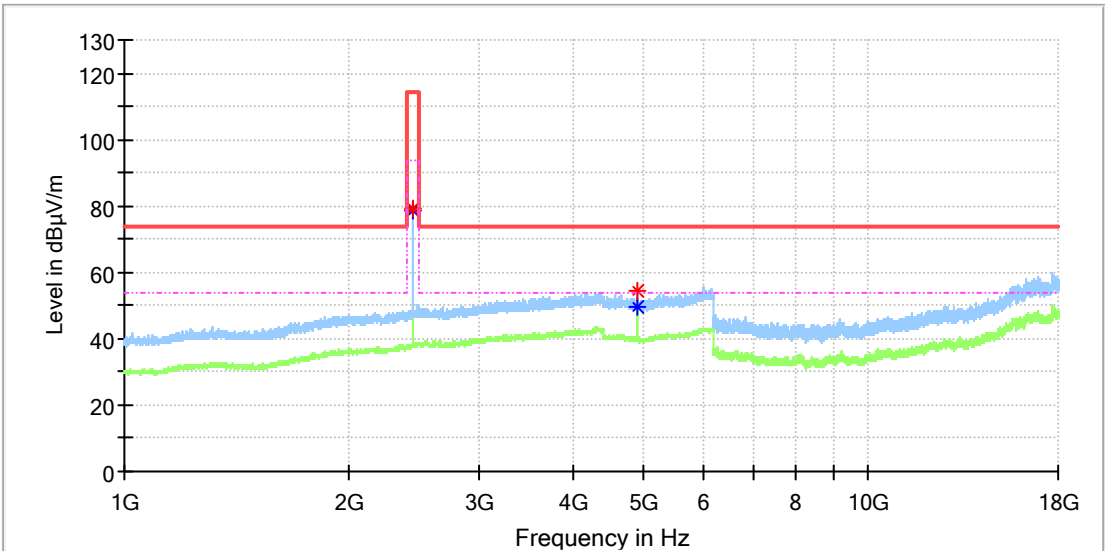
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.500000	77.55	---	114.00	36.45	100.0	V	32.0	7.4
2440.000000	---	76.50	94.00	17.50	100.0	V	32.0	7.4
4879.500000	55.94	---	74.00	18.06	100.0	V	315.0	13.4
4880.000000	---	51.12	54.00	2.88	100.0	V	315.0	13.4
7319.033333	44.06	---	74.00	29.94	100.0	V	29.0	8.2
7319.033333	---	36.79	54.00	17.21	100.0	V	29.0	8.2

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Mid Channel
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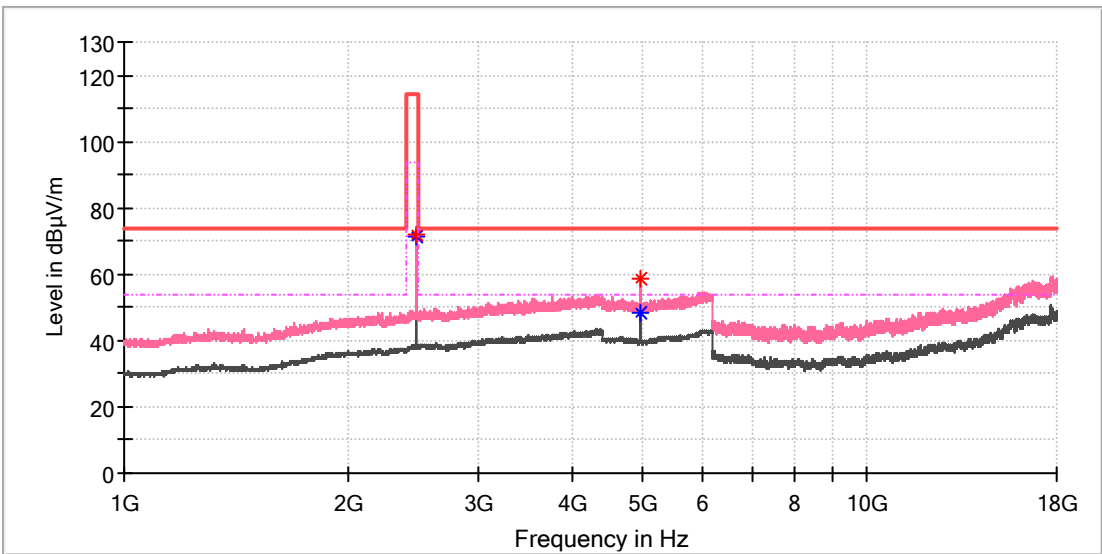
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.000000	---	78.64	94.00	15.36	100.0	H	226.0	7.4
2440.000000	78.99	---	114.00	35.01	100.0	H	226.0	7.4
4879.500000	---	49.78	54.00	4.22	100.0	H	0.0	13.4
4879.500000	54.38	---	74.00	19.62	100.0	H	0.0	13.4

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

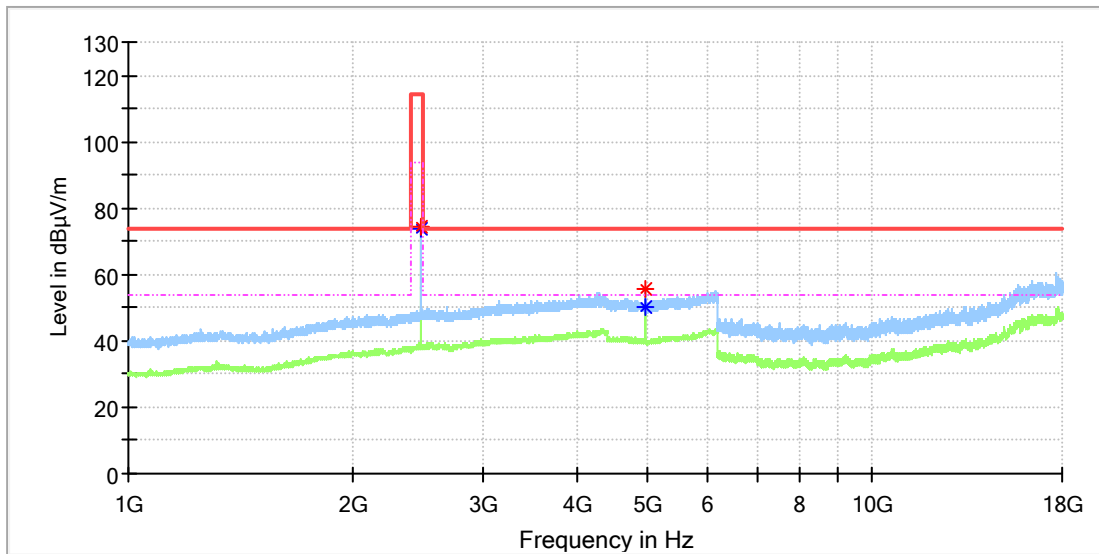


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2478.000000	---	71.46	94.00	22.54	100.0	V	0.0	7.4
2478.000000	71.96	---	114.00	42.04	100.0	V	0.0	7.4
4955.500000	58.45	---	74.00	15.55	100.0	V	126.0	13.2
4956.500000	---	48.10	54.00	5.90	100.0	V	126.0	13.2

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
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Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
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Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

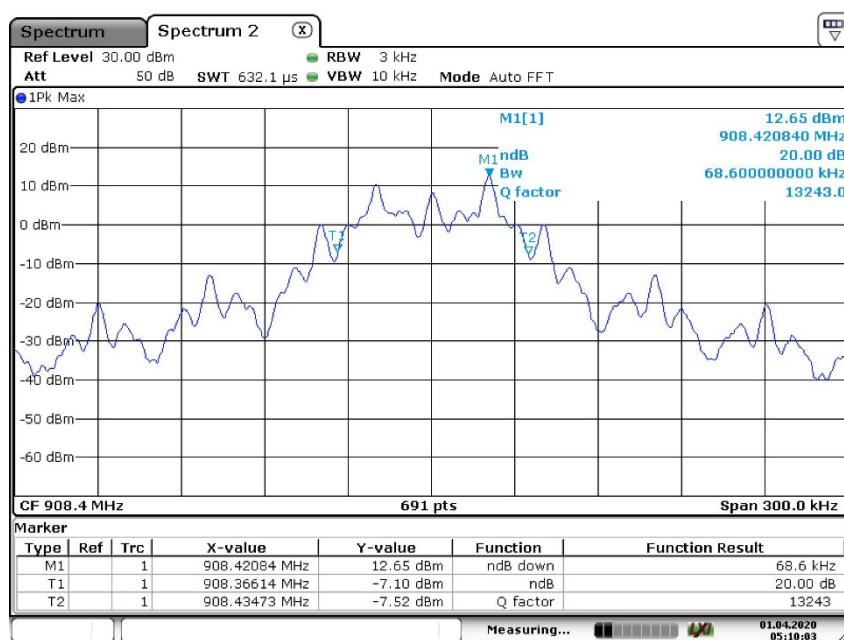
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2477.500000	74.41	---	114.00	39.59	100.0	H	101.0	7.4
2478.000000	---	73.51	94.00	20.49	100.0	H	101.0	7.4
4955.500000	55.56	---	74.00	18.44	100.0	H	322.0	13.2
4955.500000	---	50.48	54.00	3.52	100.0	H	322.0	13.2

Appendix B.2: Test Results of 20dB Bandwidth

Test Result of 20dB Bandwidth, Z-Wave

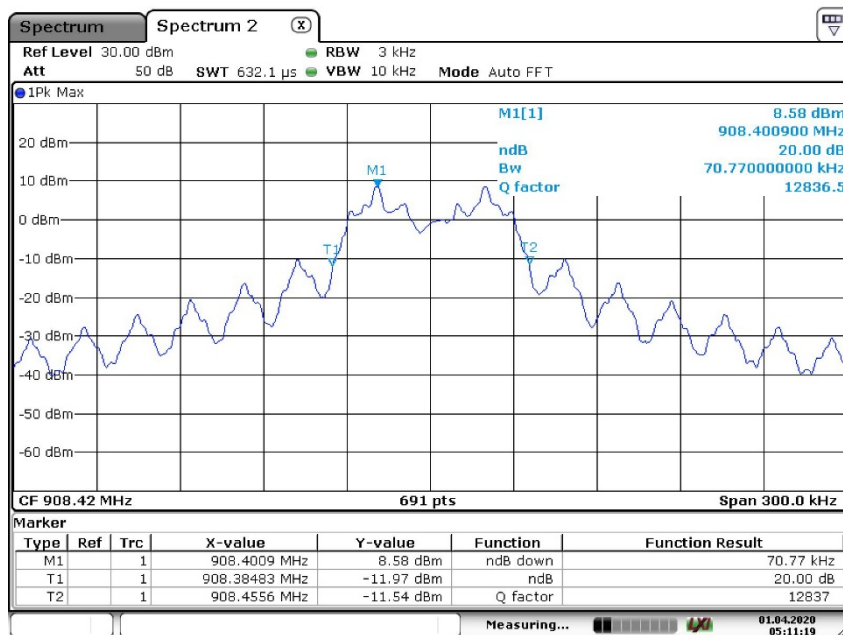
Test Mode Test Channel (MHz)	20dB Bandwidth (kHz)
908.4	68.60
908.42	70.77
916	114.18

Low Channel



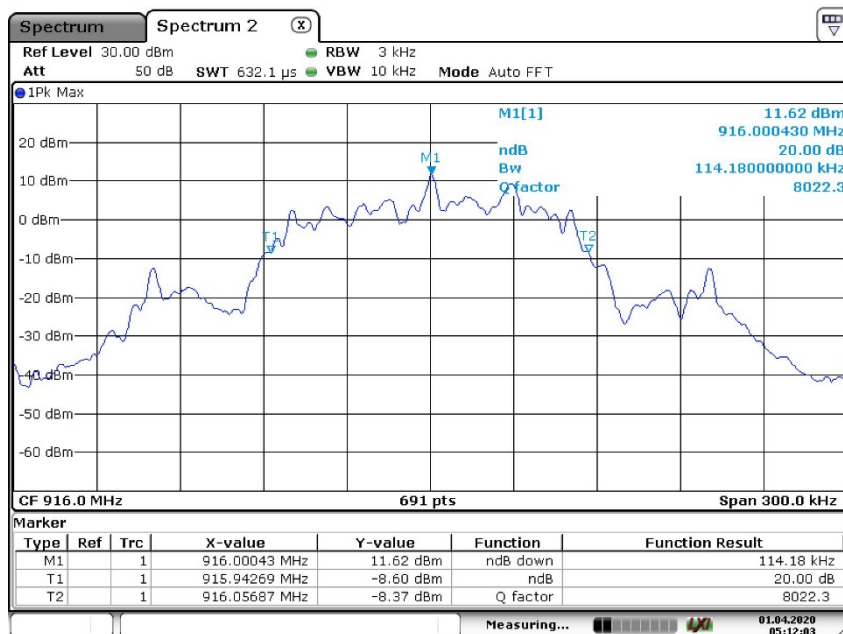
Date: 1.APR.2020 05:10:03

Middle Channel



Date: 1.APR.2020 05:11:20

High Channel

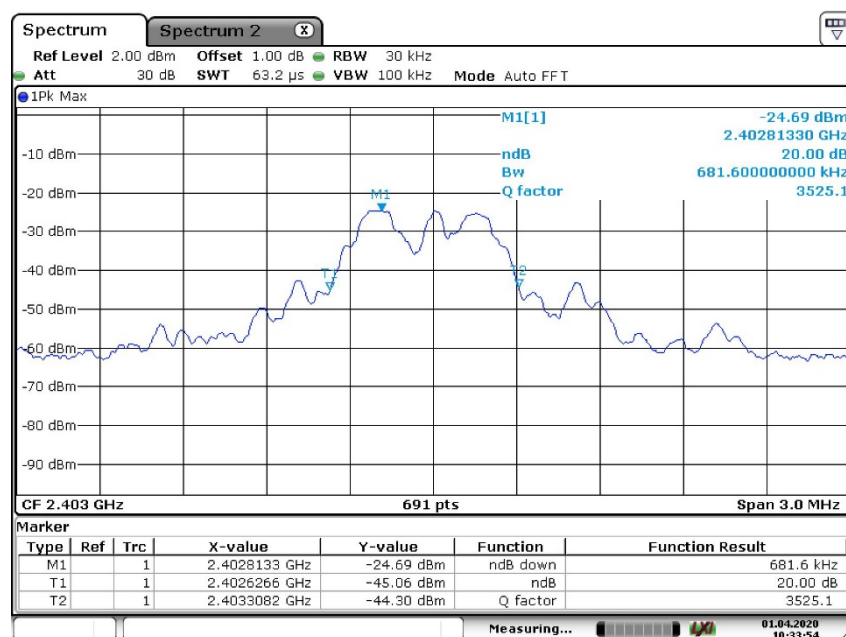


Date: 1.APR.2020 05:12:03

Test Result of 20dB Bandwidth, General 2.4GHz

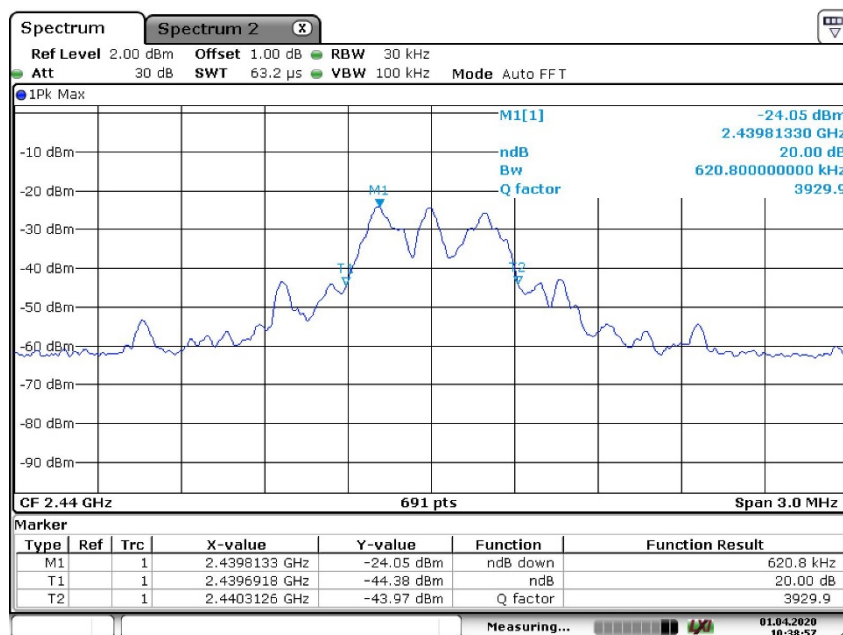
Test Mode Test Channel (MHz)	20dB Bandwidth (kHz)
2403	681.6
2440	620.8
2478	625.2

Low Channel



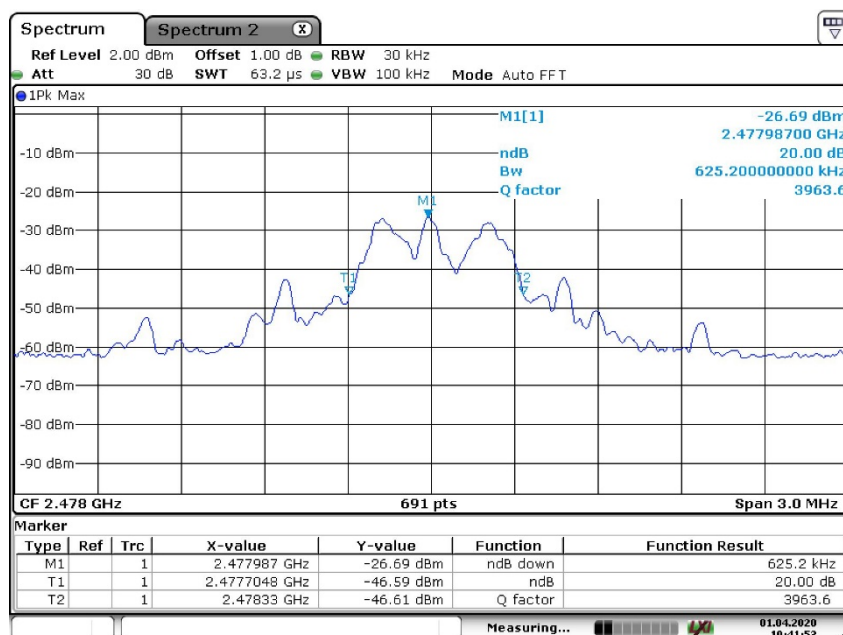
Date: 1.APR.2020 10:33:54

Middle Channel



Date: 1.APR.2020 10:38:57

High Channel



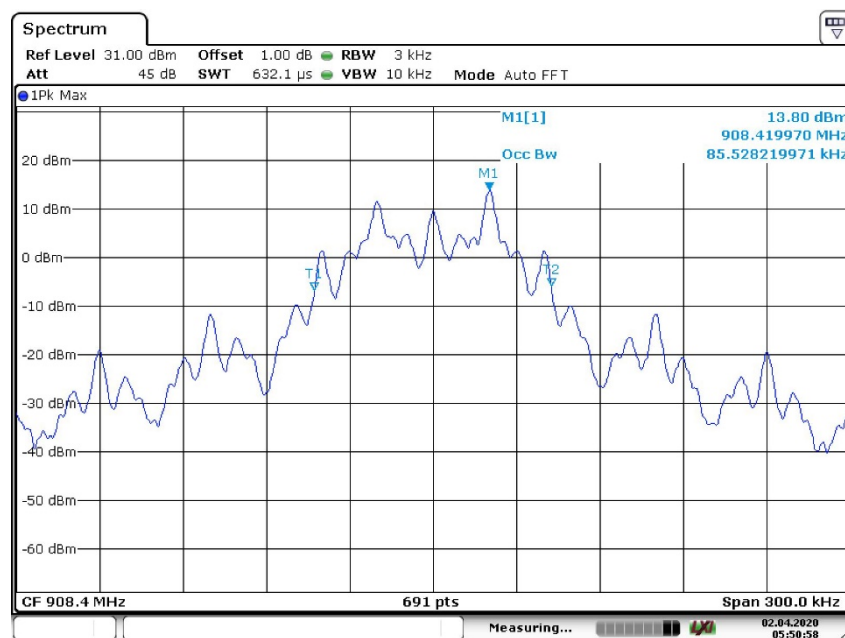
Date: 1.APR.2020 10:41:53

Appendix B.3: Test Results of 99% Bandwidth

Test Result of 99% Bandwidth, Z-Wave

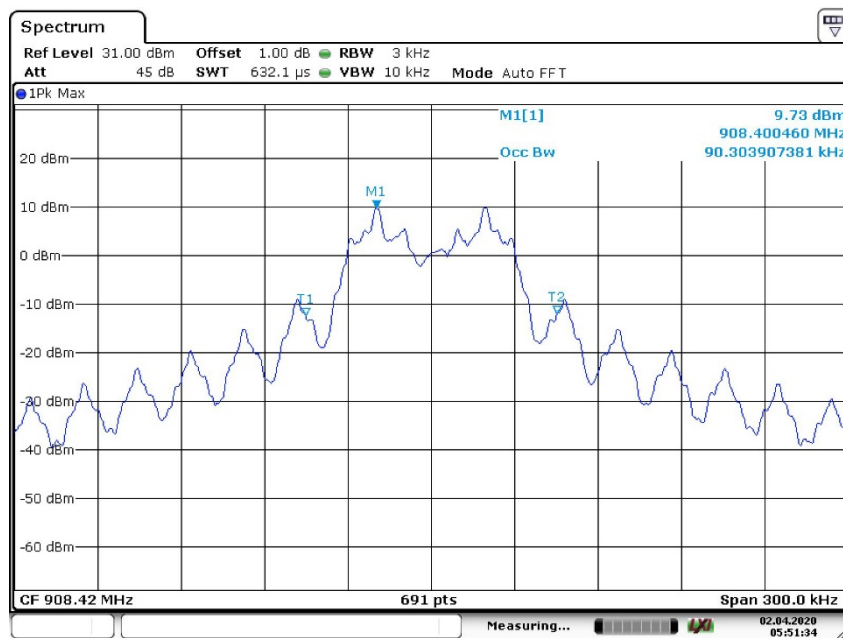
Test Mode Test Channel (MHz)	99% Bandwidth (kHz)
908.4	85.53
908.42	90.30
916	111.58

Low Channel



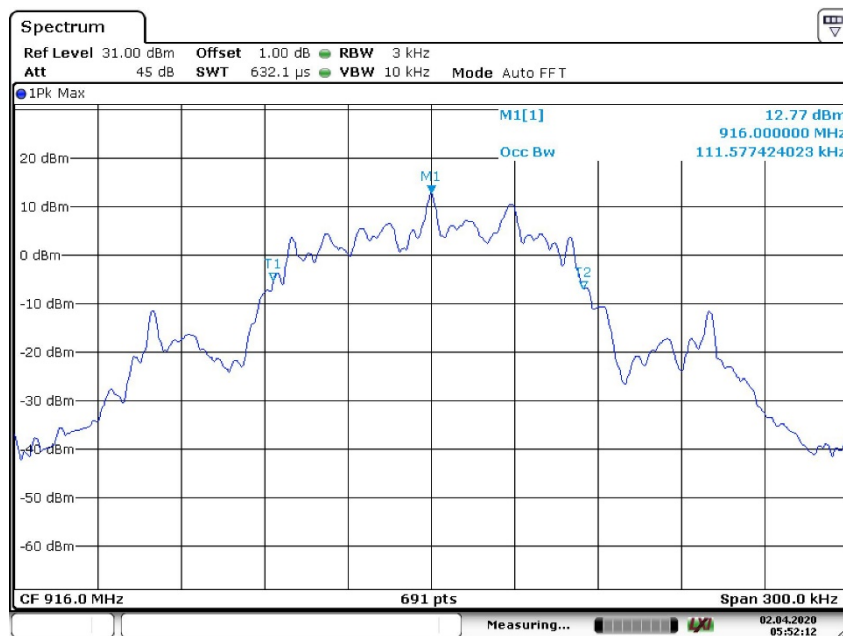
Date: 2.APR.2020 05:50:58

Middle Channel



Date: 2.APR.2020 05:51:34

High Channel

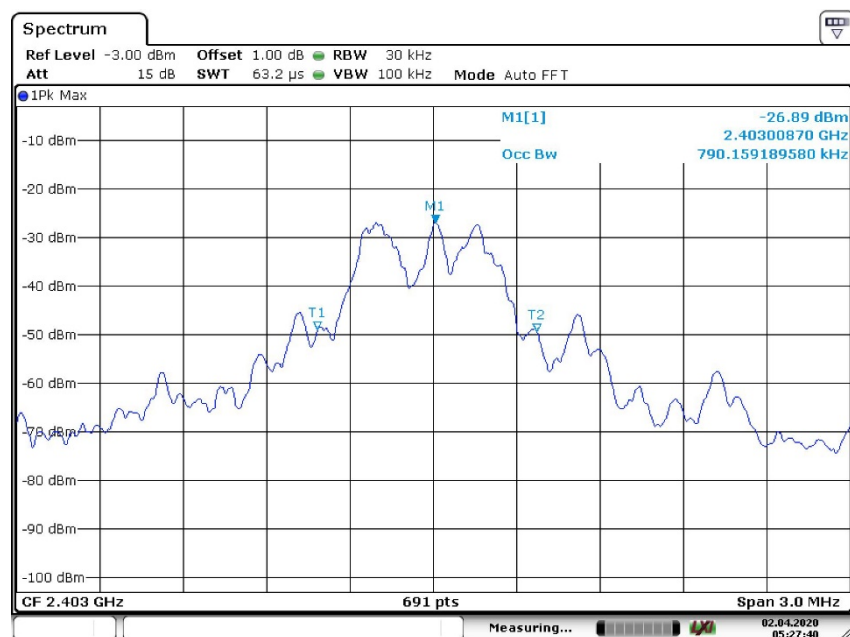


Date: 2.APR.2020 05:52:13

Test Result of 99% Bandwidth, General 2.4GHz

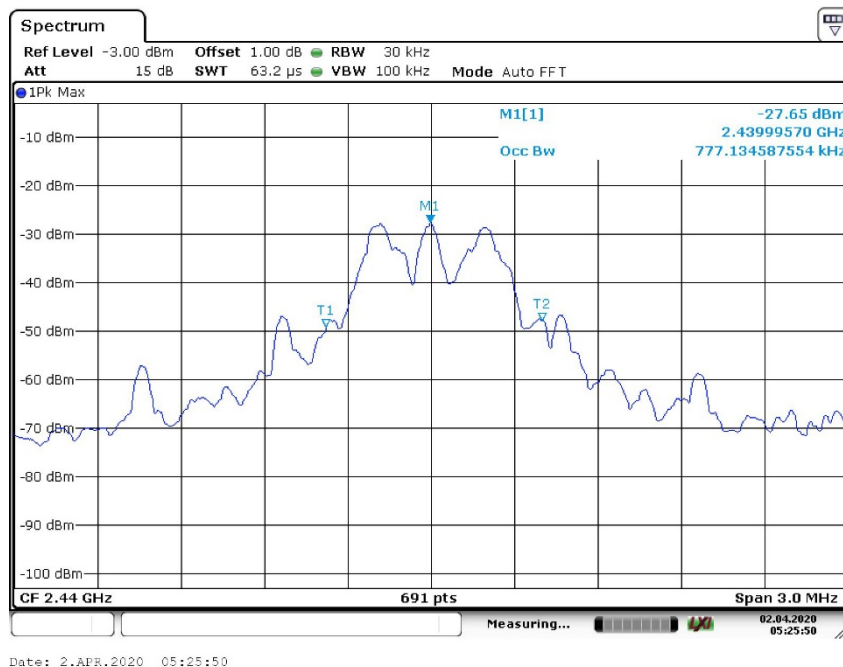
Test Mode Test Channel (MHz)	99% Bandwidth (kHz)
2403	790.16
2440	777.13
2478	1007.24

Low Channel

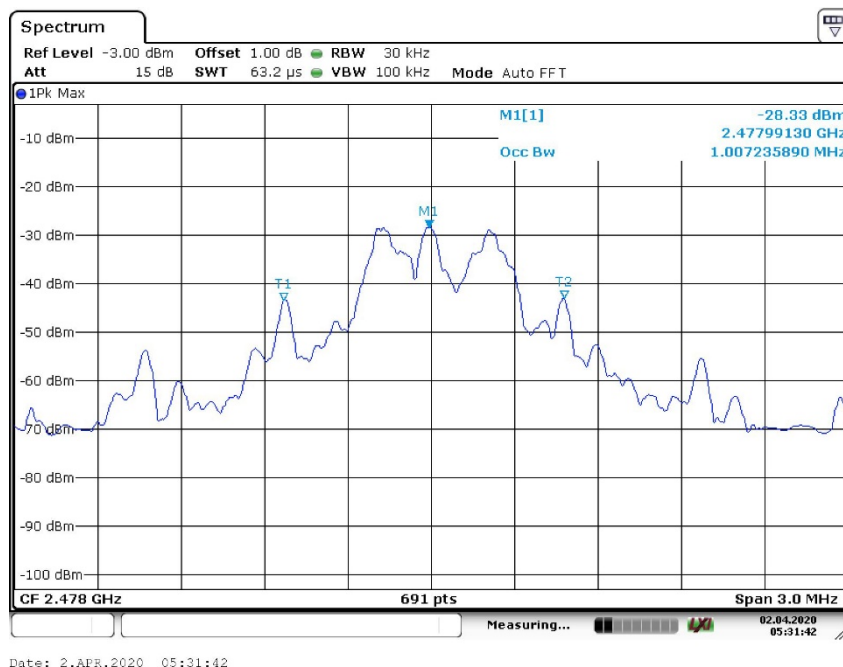


Date: 2.APR.2020 05:27:40

Middle Channel



High Channel

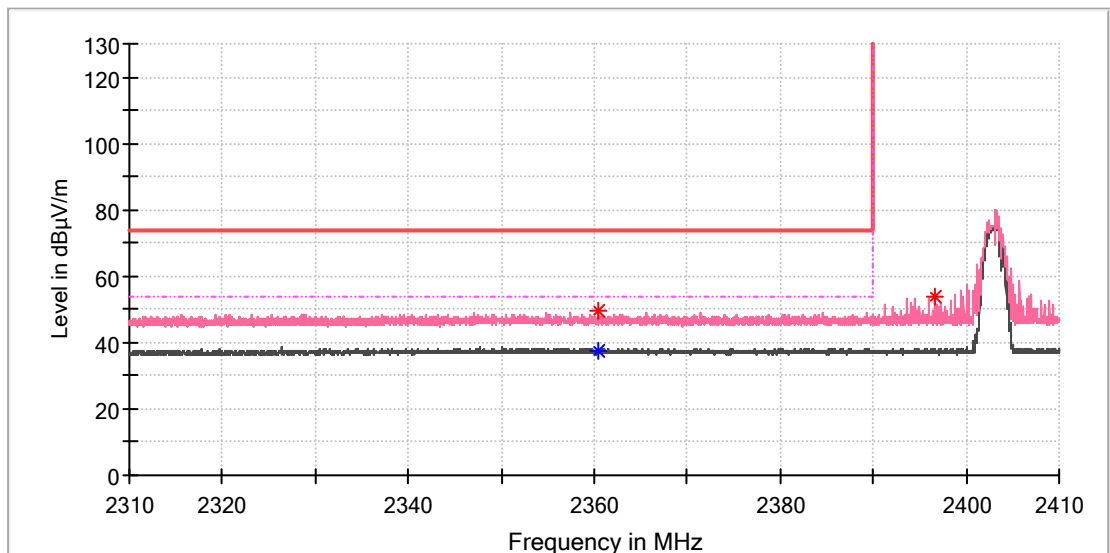


Appendix B.4: Test Results of Radiated Emissions in Restricted Bands

For General 2.4GHz

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



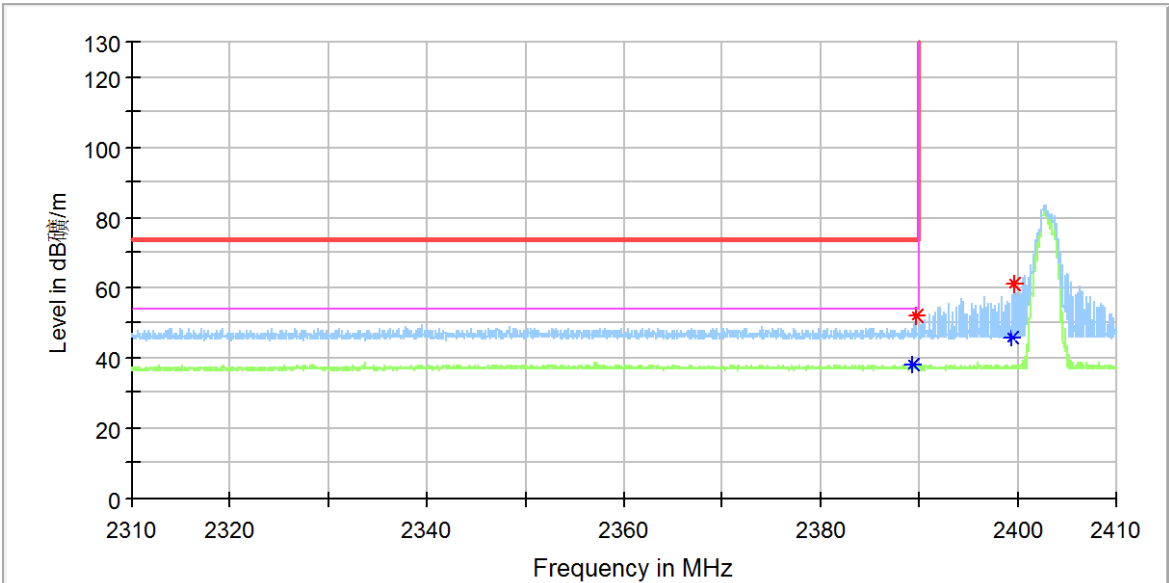
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2360.426471	---	37.58	54.00	16.42	100.0	V	21.0	6.9
2360.426471	49.44	---	74.00	24.56	100.0	V	21.0	6.9
2396.720588	53.97	---	74.00	20.03	100.0	V	7.0	7.0

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



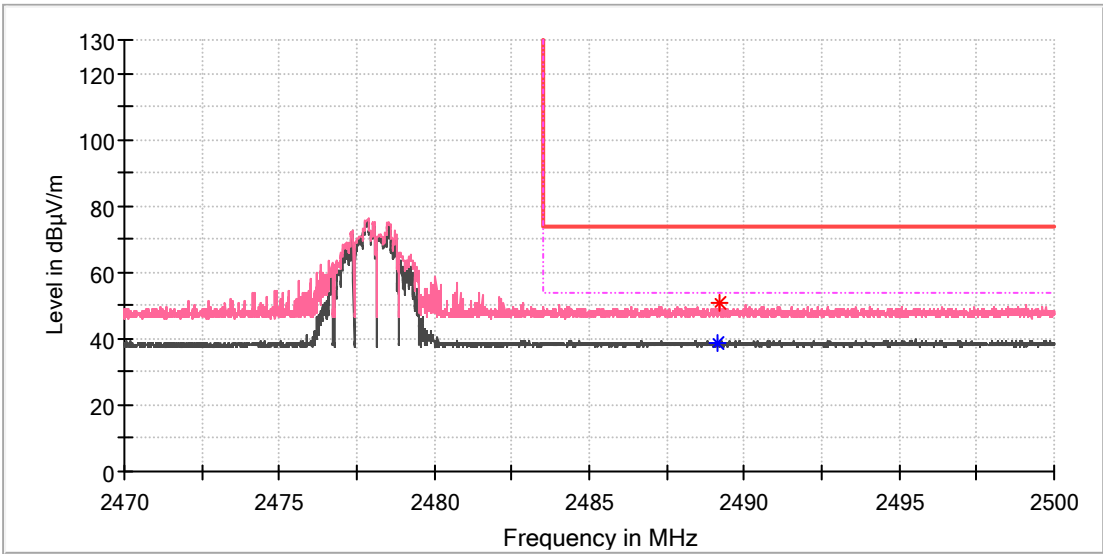
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	---	38.04	54.00	15.96	100.0	H	359.0	7.0
2389.823529	51.93	---	74.00	22.07	100.0	H	261.0	7.0
2399.588235	60.98	---	74.00	13.02	100.0	H	240.0	7.0
2399.588235		47.53	54.00	6.47	100.0	H	301.0	7.0

Produkte
Products

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

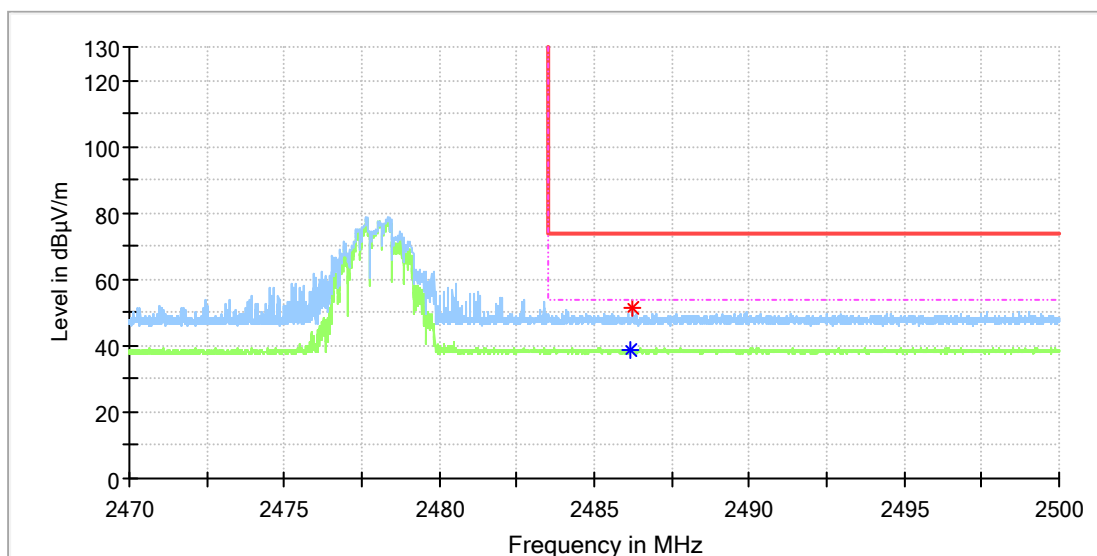


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.138235	---	38.59	54.00	15.41	100.0	V	332.0	7.4
2489.195588	50.54	---	74.00	23.46	100.0	V	304.0	7.4

EUT Information

EUT Name:	Fan & Light Switch (Red Series)
Model:	LZW36-S
Test Mode:	TX_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



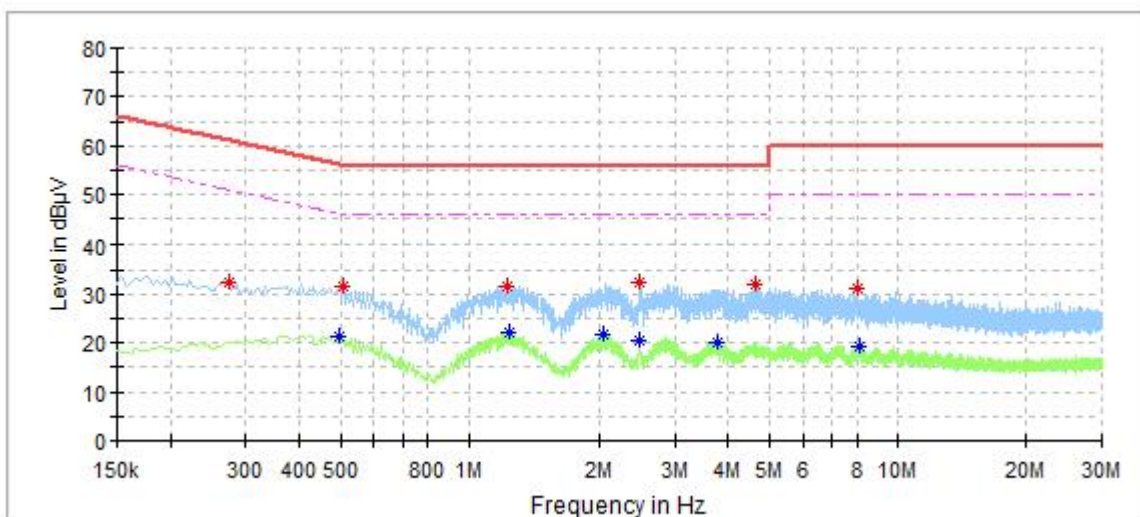
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.147059	---	38.45	54.00	15.55	100.0	H	148.0	7.4
2486.208824	51.15	---	74.00	22.85	100.0	H	224.0	7.4

Appendix B.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Fan & Light Switch (Red Series)
Model: LZW36-S
Order No.: 168155818 50
Test Mode: Running
Test Voltage: AC 120V/60Hz
Test By: Shower.Dai
Review By: Gary Chen
Remark:

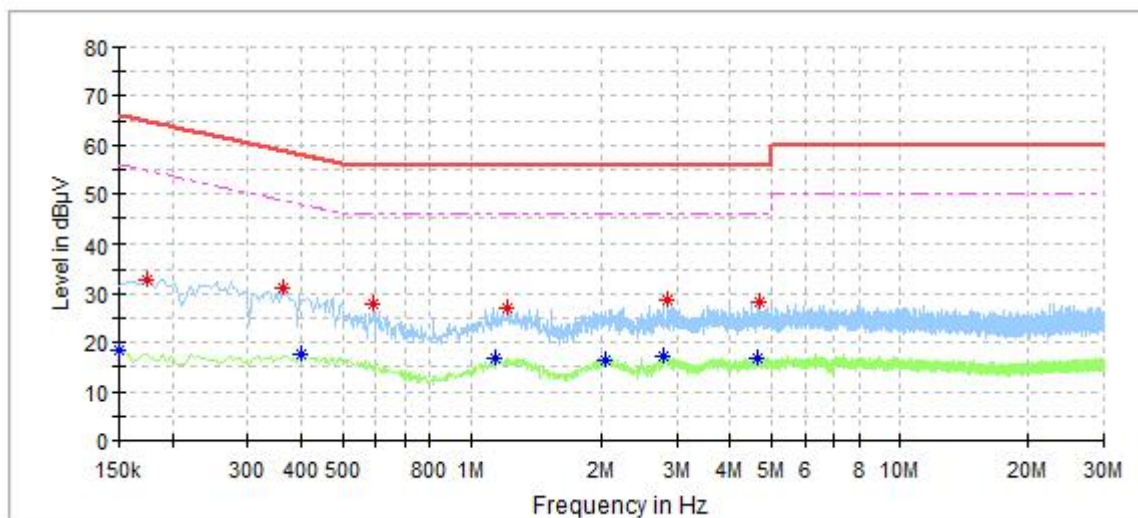


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.274000	32.50	---	61.00	28.50	L1	9.6
0.498000	---	21.16	46.03	24.87	L1	9.7
0.508000	31.67	---	56.00	24.33	L1	9.7
1.236000	31.79	---	56.00	24.21	L1	9.7
1.248000	---	21.98	46.00	24.02	L1	9.7
2.048000	---	21.70	46.00	24.30	L1	9.7
2.488000	32.51	---	56.00	23.49	L1	9.8
2.488000	---	20.38	46.00	25.62	L1	9.8
3.780000	---	20.26	46.00	25.74	L1	9.8
4.628000	31.84	---	56.00	24.16	L1	9.9
8.064000	31.13	---	60.00	28.87	L1	10.0
8.144000	---	19.45	50.00	30.55	L1	10.0

EUT Information

EUT Name: Fan & Light Switch (Red Series)
 Model: LZW36-S
 Order No.: 168155818 50
 Test Mode: Running
 Test Voltage: AC 120V/60Hz
 Test By: Shower.Dai
 Review By: Gary Chen
 Remark:



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	18.61	56.00	37.39	N	9.6
0.174000	32.95	---	64.77	31.82	N	9.6
0.362000	31.24	---	58.68	27.45	N	9.7
0.402000	---	17.56	47.81	30.25	N	9.7
0.592000	27.82	---	56.00	28.18	N	9.7
1.136000	---	16.81	46.00	29.19	N	9.7
1.220000	27.27	---	56.00	28.73	N	9.7
2.040000	---	16.43	46.00	29.57	N	9.7
2.804000	---	17.06	46.00	28.94	N	9.8
2.864000	28.52	---	56.00	27.48	N	9.8
4.636000	---	16.62	46.00	29.38	N	9.9
4.664000	28.23	---	56.00	27.77	N	9.9