

FCC
RF
TEST REPORT

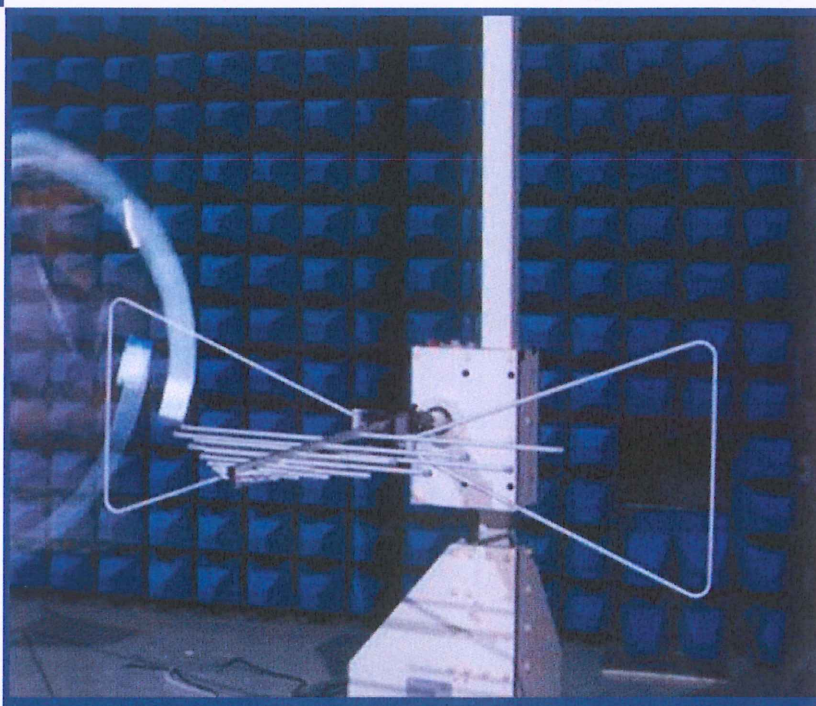
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Wireless Charger

ISSUED TO
Westcharge Private Limited

1113 Arunachal Building, Barakhamba Road, New Delhi 110001, India



Tested by: Xia Long
Xia Long
(Engineer)

Date: Nov. 11, 2019

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date: Nov. 11, 2019

Report No.: BL-SZ1980154-402
EUT Name: Wireless Charger
Model Name: W1SOB (refer to section 2.4)
Brand Name: WestCharge
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: 2AUPS-W1XXX

Test Conclusion: Pass
Test Date: Aug. 12, 2019 ~ Aug. 19, 2019
Date of Issue: Nov. 11, 2019

NOTE: This test report of test results only related to testing samples, which can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. Any objections should be raised within thirty days from the date of issue. To validate the report, please contact us.

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 11, 2019</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	Factory Information	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Ancillary Equipment	6
2.6	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Verdict	7
3.3	Test Uncertainty	7
4	GENERAL TEST CONFIGURATIONS	8
4.1	Test Environments	8
4.2	Test Equipment List	8
4.3	Test Setups	9
5	TEST ITEMS	11
5.1	Emission Tests	11
ANNEX A	TEST RESULTS	15
A.1	Radiated Emission	15
A.2	Conducted Emission	21
A.3	20 dB Bandwidth	25

ANNEX B	TEST SETUP PHOTOS	27
ANNEX C	EUT EXTERNAL PHOTOS	27
ANNEX D	EUT INTERNAL PHOTOS	27

1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025. The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report refer to the BALUN report mode v6.7.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Westcharge Private Limited
Address	1113 Arunachal Building, Barakhamba Road, New Delhi 110001, India

2.2 Manufacturer Information

Manufacturer	Westcharge Private Limited
Address	1113 Arunachal Building, Barakhamba Road, New Delhi 110001, India

2.3 Factory Information

Factory	Dongguan Wisetronics Telecom Equipment Co., Ltd.
Address	Elite Industrial Area, Meilin District, Dalingshan Town, Dongguan, Guangdong, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Wireless Charger
Model Name Under Test	W1SOB
Series Model Name	W1SU, W1SOG, W1SOC, W1FU, W1FOG, W1FOB, W1FOC
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only different on appearance color.
Hardware Version	1.0
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment	USB Cable	
	Length (Approx.)	2.0 m

2.6 Technical Information

Network and Wireless connectivity	WIFI, QI
-----------------------------------	----------

The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	111 kHz~205kHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type	Coil Antenna
About Product	The EUT only support the QI technology.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-17 Edition)	Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.209,15.215(b)	Pass	Annex A.1
2	Conducted Emission, AC Ports	15.207	Pass	Annex A.2
3	20 dB Bandwidth	15.215(c)	Pass	Annex A.3

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.23 dB
Radiated emissions (30 MHz-1 GHz)	4.30 dB
Radiated emissions (1 GHz-18 GHz)	4.81 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

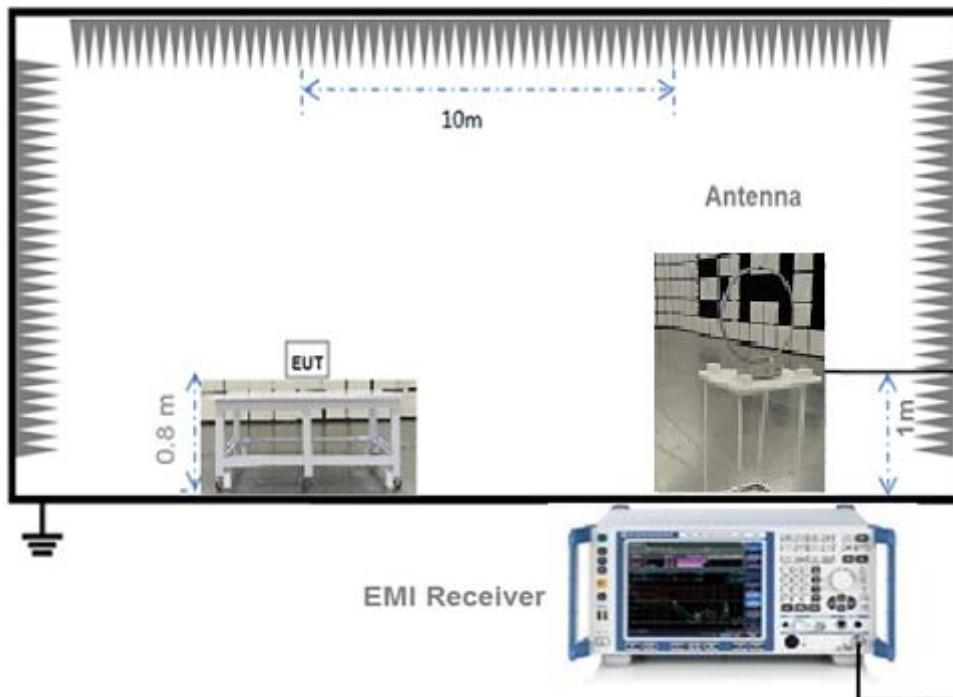
Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	DC 12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2019.07.04	2020.07.03
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.07	2019.11.08
Test Antenna- Bi-Log(30 MHz- 3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	N/A	2018.08.08	2020.08.07
EMI Receiver	KEYSIGHT	N9010B	MY5711030 9	2019.06.13	2020.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2019.07.04	2020.07.03
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A
Test Software	BALUN	BL410_E	V19.419	--	--

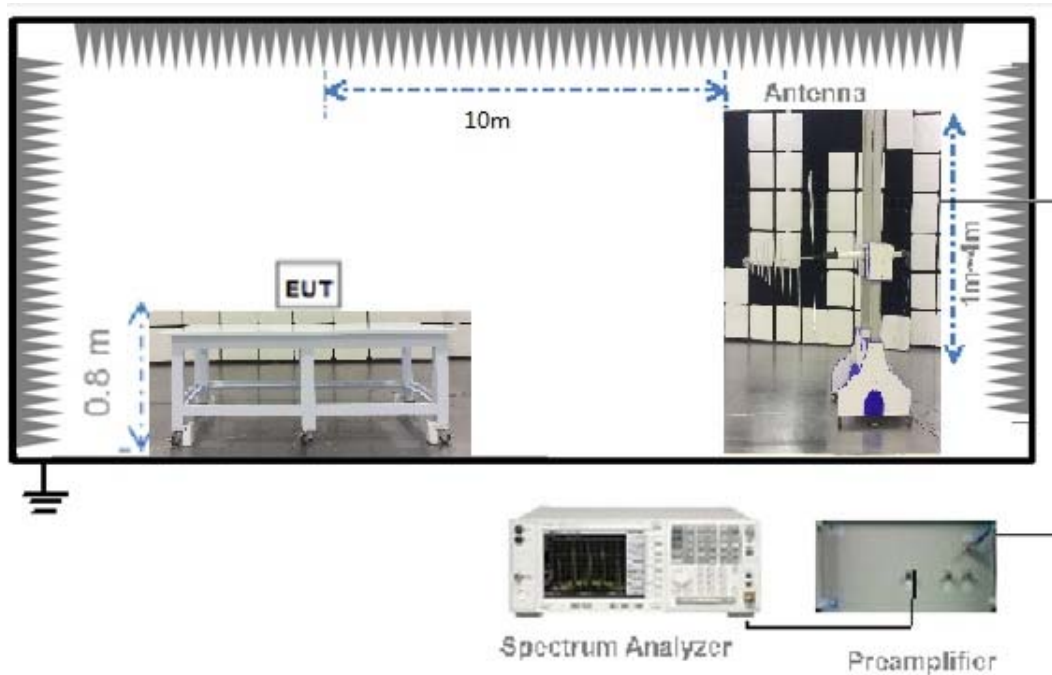
4.3 Test Setups

Test Setup 1



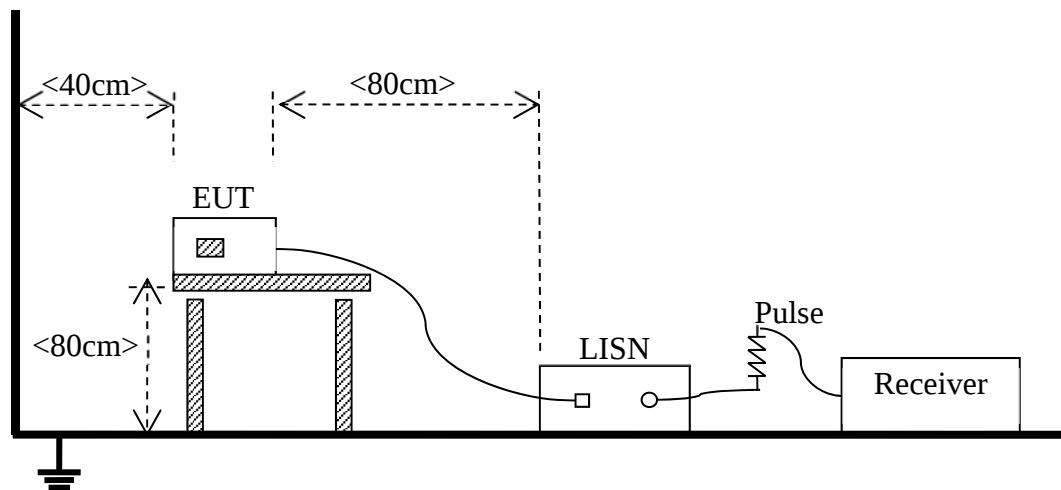
For Radiated Emission Test (Below 30 MHz))

Test Setup 2



(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 dB $\mu\text{V/m}$ @3 m (AV) and 74 dB $\mu\text{V/m}$ @3 m (PK)
- 4) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). For example, at the frequency 9 kHz, limit @10m = $20 \cdot \log (2400/f) + 40 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 300m, dmeasure=10m. limit @10m = $20 \cdot \log (2400/9) + 40 \log (300/10) = 107.5$ (dB $\mu\text{V/m}$).
- 5) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided, When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements). For example, at the frequency 30 MHz, limit @10m = $20 \cdot \log (100) + 20 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 3m, dmeasure=10m. limit @10m = $20 \cdot \log (100) + 20 \log (3/10) = 29.5$ (dB $\mu\text{V/m}$).

5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

5.1.3 20 dB Bandwidth

5.1.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth ($10 \cdot \log 1\% = 20$ dB) taking the total RF output power.

5.1.3.2 Test Setup

Refer to 4.3 section test (test setup 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.1.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq$ 1% of the 20 dB bandwidth

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.1.3.4 Test Result

Please refer to ANNEX A.3.

ANNEX A TEST RESULTS

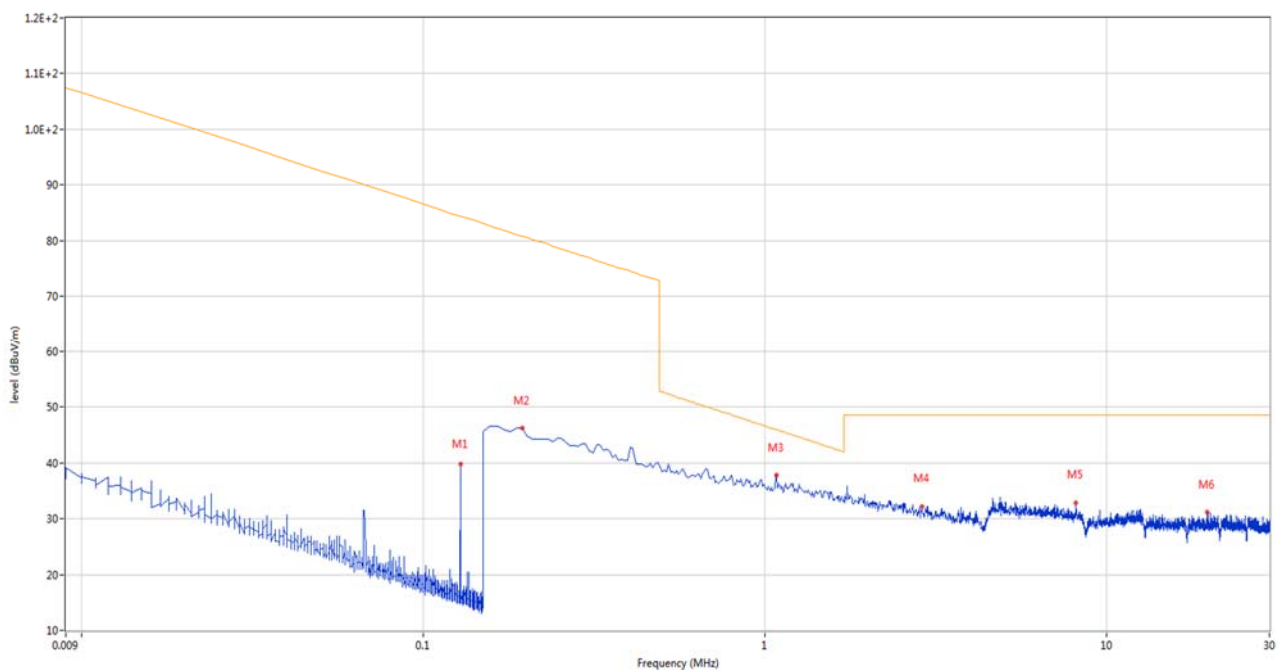
A.1 Radiated Emission

Note 1: The symbol of “--” in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

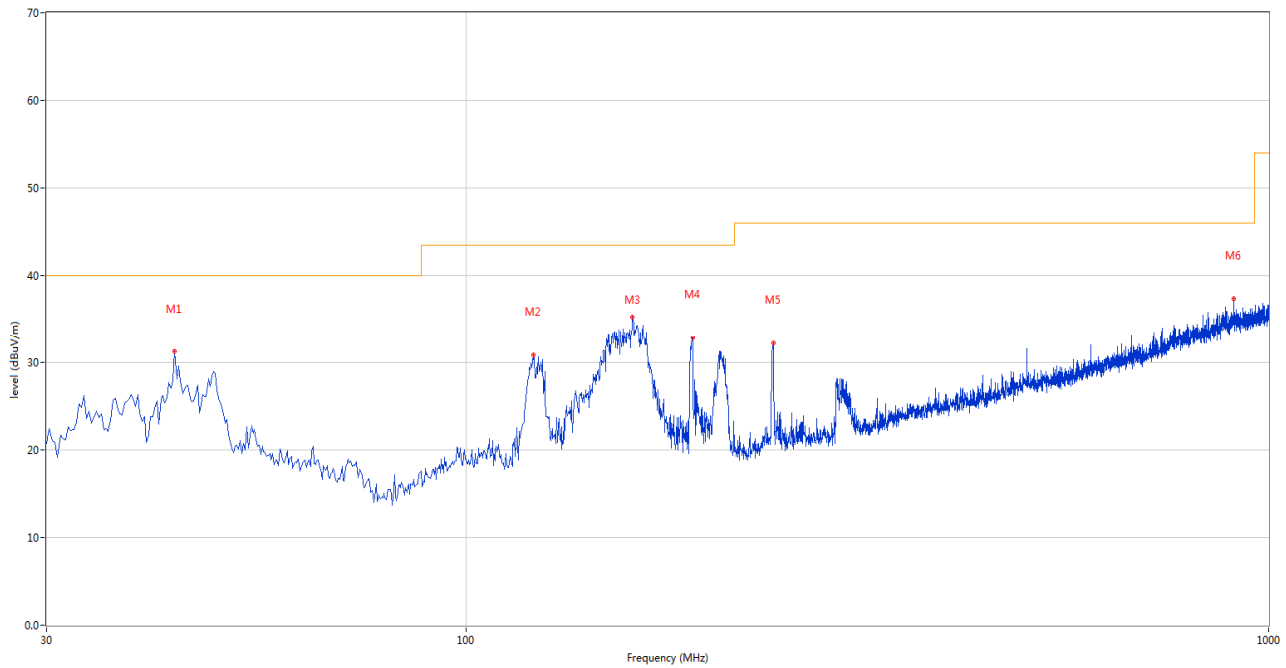
Mode 1 Test Data and Plots

A.1.1 Test Antenna Vertical, 9 kHz –30 MHz



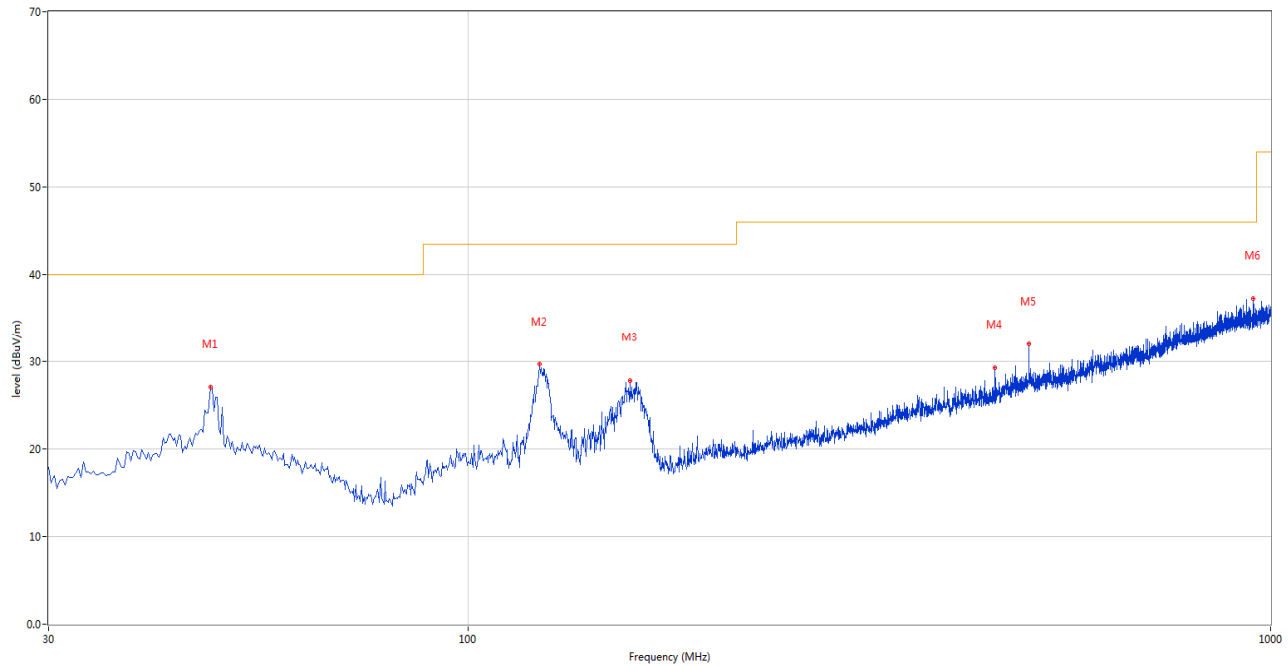
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.129	39.97	20.15	84.4	-44.43	Peak	356.00	100	Vertical	N/A
2	0.195	46.16	20.10	80.8	-34.64	Peak	132.00	100	Vertical	Pass
3	1.083	37.73	20.57	45.9	-8.17	Peak	326.00	100	Vertical	Pass
4	2.881	32.23	20.49	48.5	-16.27	Peak	61.00	100	Vertical	Pass
5	8.140	32.86	20.83	48.5	-15.64	Peak	317.00	100	Vertical	Pass
6	19.682	31.16	21.13	48.5	-17.34	Peak	255.00	100	Vertical	Pass

A.1.2 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.337	31.23	-23.55	40.0	-8.77	Peak	289.00	100	Vertical	Pass
2	121.180	30.86	-26.76	43.5	-12.64	Peak	298.80	100	Vertical	Pass
3	161.193	35.30	-27.45	43.5	-8.20	Peak	156.60	100	Vertical	Pass
4	191.505	32.85	-25.10	43.5	-10.65	Peak	125.80	100	Vertical	Pass
5	241.460	32.22	-23.37	46.0	-13.78	Peak	240.30	100	Vertical	Pass
6	904.940	37.34	-10.38	46.0	-8.66	Peak	111.60	200	Vertical	Pass

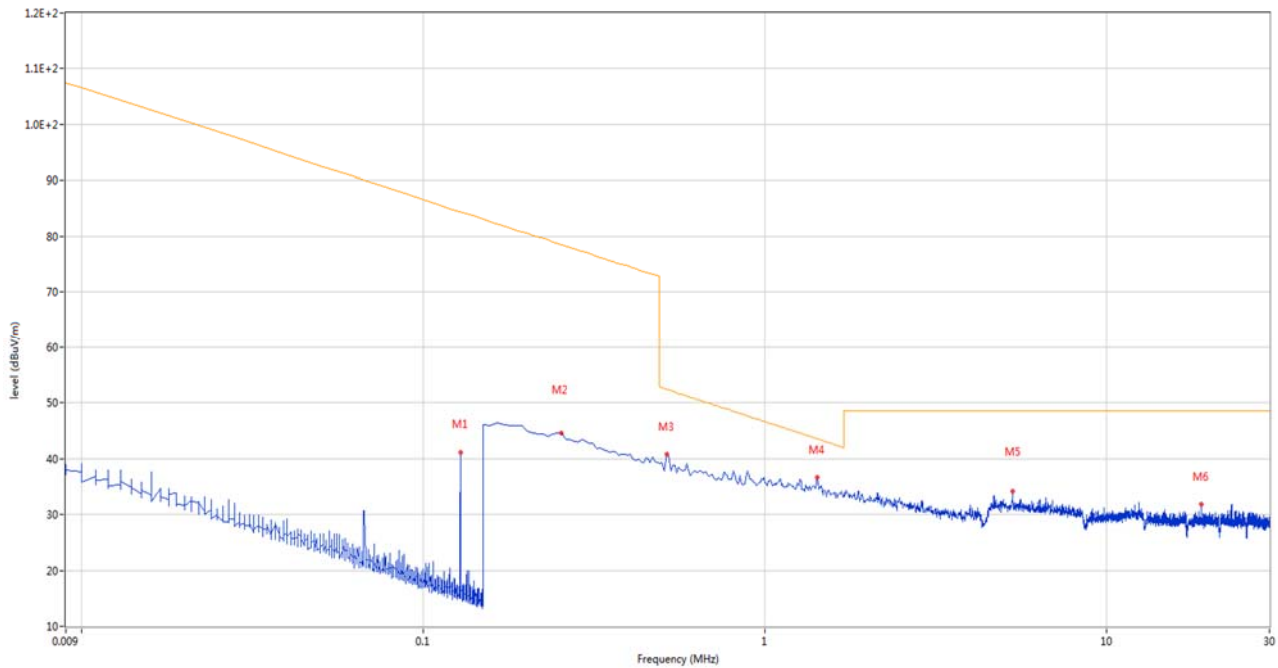
A.1.3 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	47.703	27.02	-23.39	40.0	-12.98	Peak	203.40	200	Horizontal	Pass
2	122.878	29.66	-26.82	43.5	-13.84	Peak	360.00	200	Horizontal	Pass
3	159.010	27.80	-27.74	43.5	-15.70	Peak	32.40	200	Horizontal	Pass
4	453.647	29.29	-18.17	46.0	-16.71	Peak	130.90	200	Horizontal	Pass
5	499.965	32.00	-16.97	46.0	-14.00	Peak	56.50	100	Horizontal	Pass
6	951.015	37.24	-9.75	46.0	-8.76	Peak	360.00	200	Horizontal	Pass

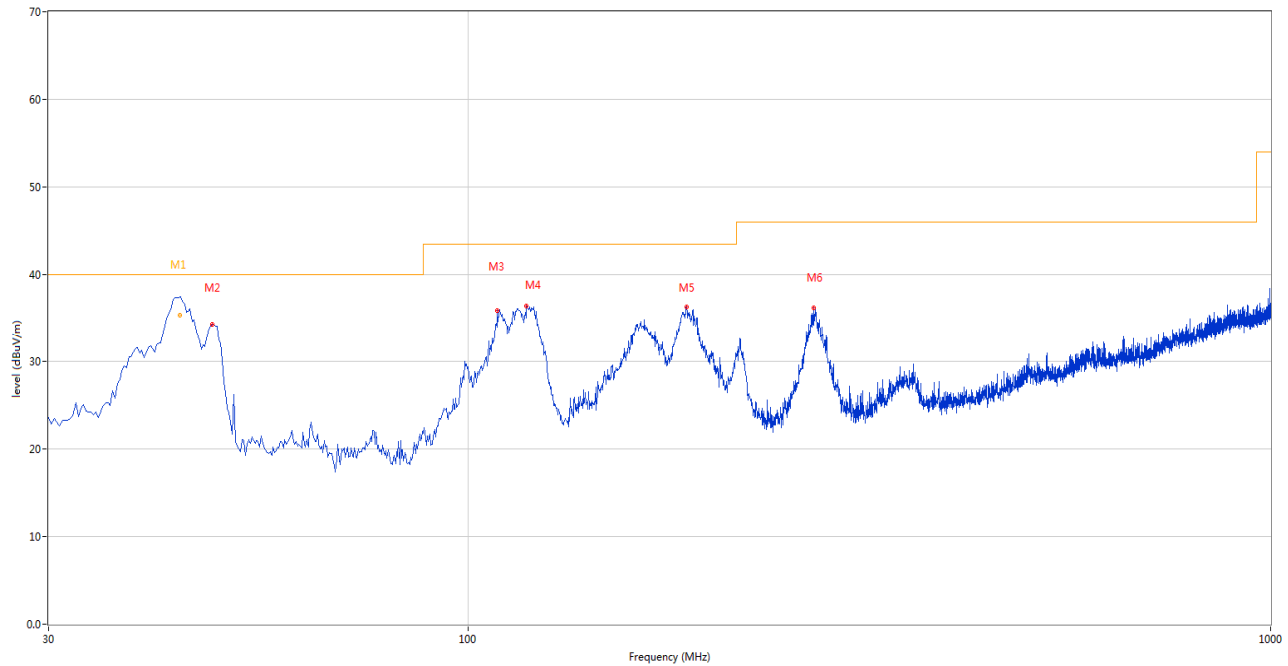
Mode 2 Test Data and Plots

A.1.4 Test Antenna Vertical, 9 kHz –30 MHz



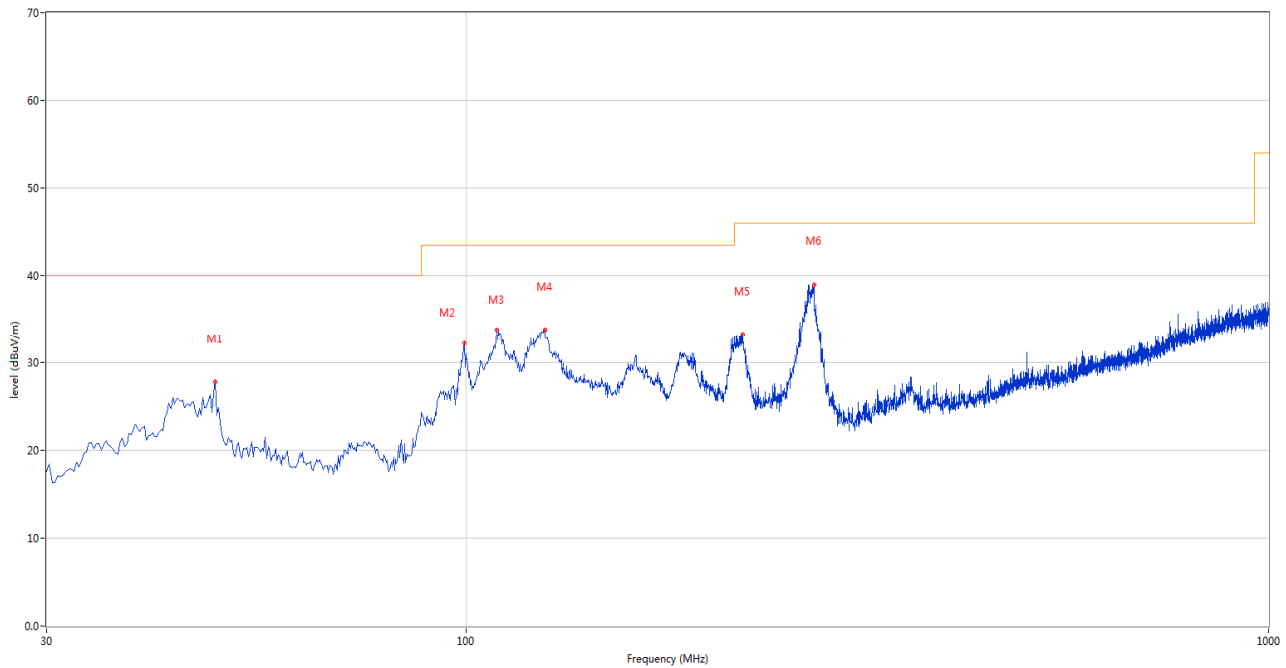
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.129	41.23	20.15	84.4	-43.17	Peak	360.00	100	Vertical	N/A
2	0.254	44.56	20.13	78.5	-33.94	Peak	27.00	100	Vertical	Pass
3	0.516	40.72	20.27	52.4	-11.68	Peak	168.00	100	Vertical	Pass
4	1.426	36.64	20.52	43.5	-6.86	Peak	159.00	100	Vertical	Pass
5	5.313	34.17	20.80	48.5	-14.33	Peak	150.00	100	Vertical	Pass
6	18.921	31.78	21.05	48.5	-16.72	Peak	194.00	100	Vertical	Pass

A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.715	38.33	-23.50	40.0	-1.67	Peak	332.80	103	Vertical	N/A
1*	43.715	35.40	-23.50	40.0	-4.60	QP	332.80	103	Vertical	Pass
2	47.945	34.27	-23.36	40.0	-5.73	Peak	350.50	100	Vertical	Pass
3	108.812	35.91	-24.71	43.5	-7.59	Peak	359.90	100	Vertical	Pass
4	118.270	36.45	-26.15	43.5	-7.05	Peak	0.00	100	Vertical	Pass
5	187.140	36.30	-25.59	43.5	-7.20	Peak	190.10	100	Vertical	Pass
6	269.347	36.17	-22.61	46.0	-9.83	Peak	56.70	100	Vertical	Pass

A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



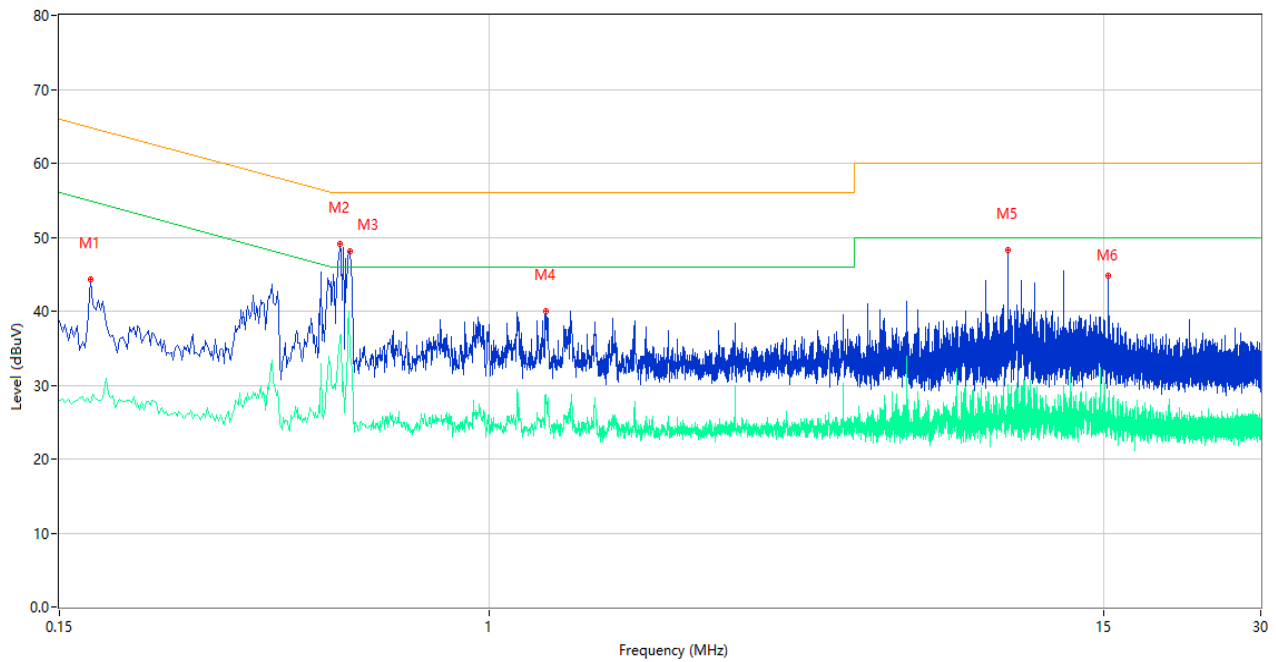
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.672	27.75	-23.30	40.0	-12.25	Peak	193.60	200	Horizontal	Pass
2	99.598	32.19	-24.78	43.5	-11.31	Peak	0.00	200	Horizontal	Pass
3	109.298	33.75	-24.73	43.5	-9.75	Peak	352.20	200	Horizontal	Pass
4	125.302	33.82	-27.02	43.5	-9.68	Peak	0.60	200	Horizontal	Pass
5	221.090	33.22	-24.30	46.0	-12.78	Peak	171.60	100	Horizontal	Pass

A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

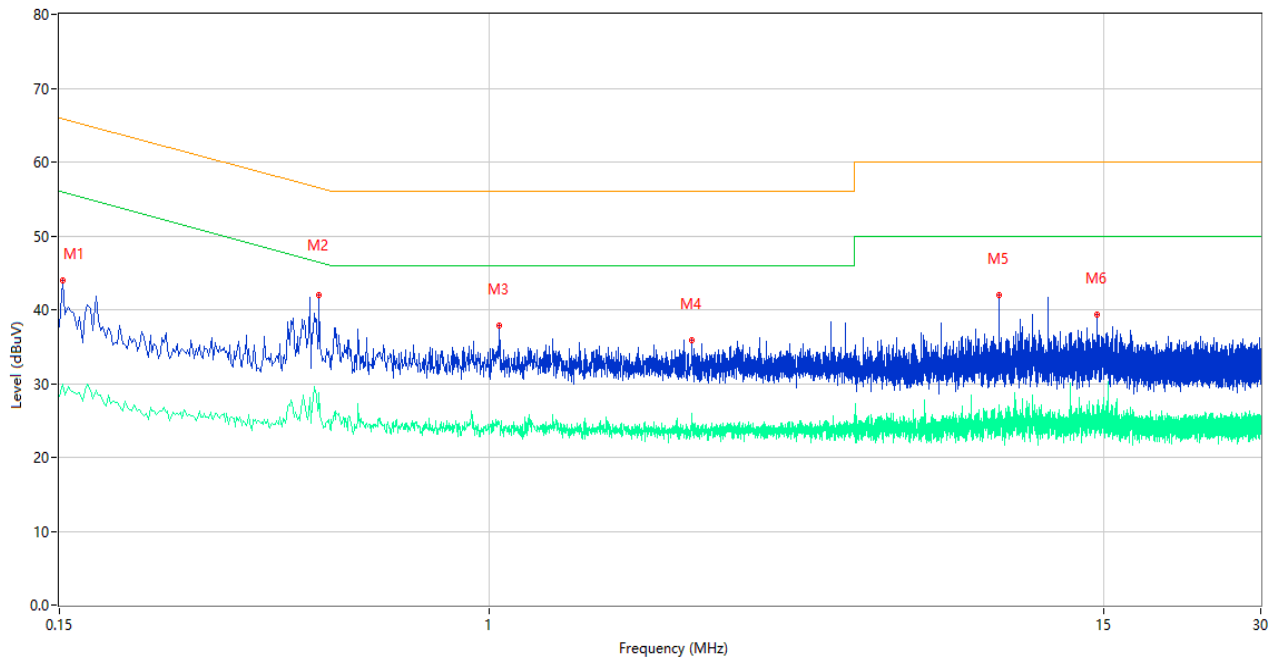
Mode 1 Test Data and Plots

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	44.24	10.40	64.86	-20.62	Peak	L	Pass
1**	0.172	27.67	10.40	54.86	-27.19	AV	L	Pass
2	0.518	49.11	10.30	56.00	-6.89	Peak	L	Pass
2**	0.518	36.72	10.30	46.00	-9.28	AV	L	Pass
3	0.540	48.17	10.29	56.00	-7.83	Peak	L	Pass
3**	0.540	39.95	10.29	46.00	-6.05	AV	L	Pass
4	1.280	40.00	10.25	56.00	-16.00	Peak	L	Pass
4**	1.280	28.69	10.25	46.00	-17.31	AV	L	Pass
5	9.838	48.28	10.37	60.00	-11.72	Peak	L	Pass
5**	9.838	25.38	10.37	50.00	-24.62	AV	L	Pass
6	15.284	44.77	10.42	60.00	-15.23	Peak	L	Pass
6**	15.284	28.06	10.42	50.00	-21.94	AV	L	Pass

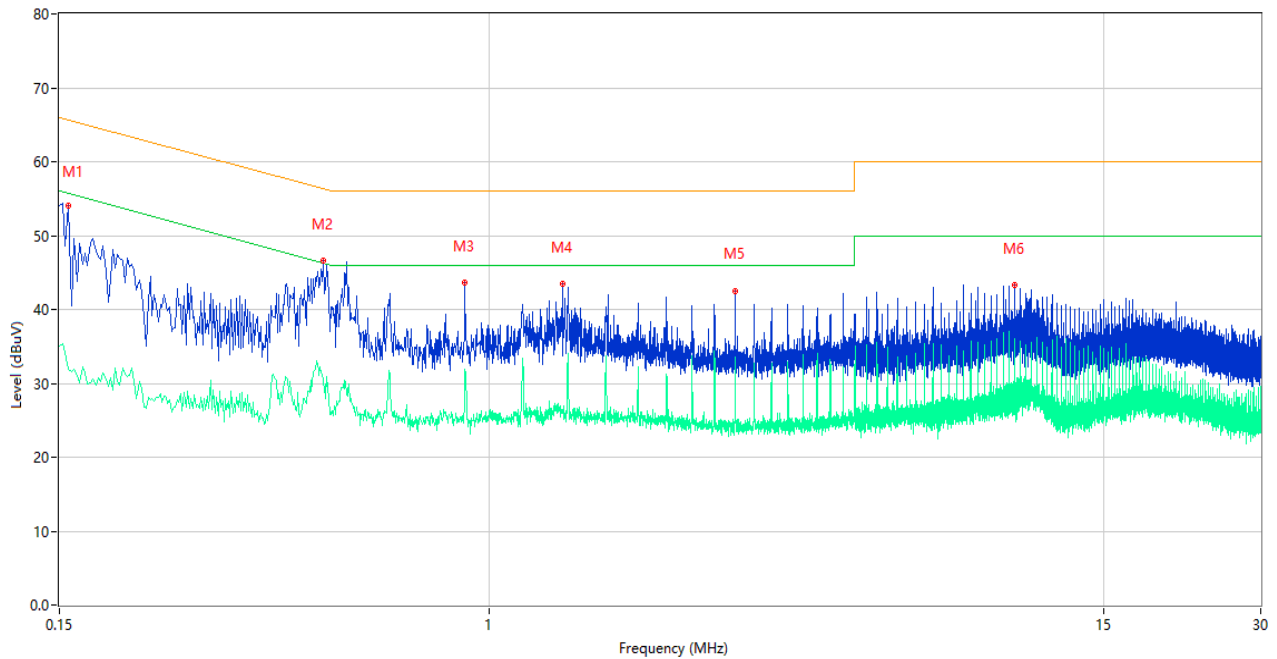
A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	44.04	10.41	65.89	-21.85	Peak	N	Pass
1**	0.152	29.85	10.41	55.89	-26.04	AV	N	Pass
2	0.472	42.04	10.30	56.48	-14.44	Peak	N	Pass
2**	0.472	28.73	10.30	46.48	-17.75	AV	N	Pass
3	1.044	37.89	10.23	56.00	-18.11	Peak	N	Pass
3**	1.044	24.63	10.23	46.00	-21.37	AV	N	Pass
4	2.442	35.88	10.25	56.00	-20.12	Peak	N	Pass
4**	2.442	26.01	10.25	46.00	-19.99	AV	N	Pass
5	9.456	41.99	10.36	60.00	-18.01	Peak	N	Pass
5**	9.456	27.06	10.36	50.00	-22.94	AV	N	Pass
6	14.568	39.29	10.40	60.00	-20.71	Peak	N	Pass
6**	14.568	25.30	10.40	50.00	-24.70	AV	N	Pass

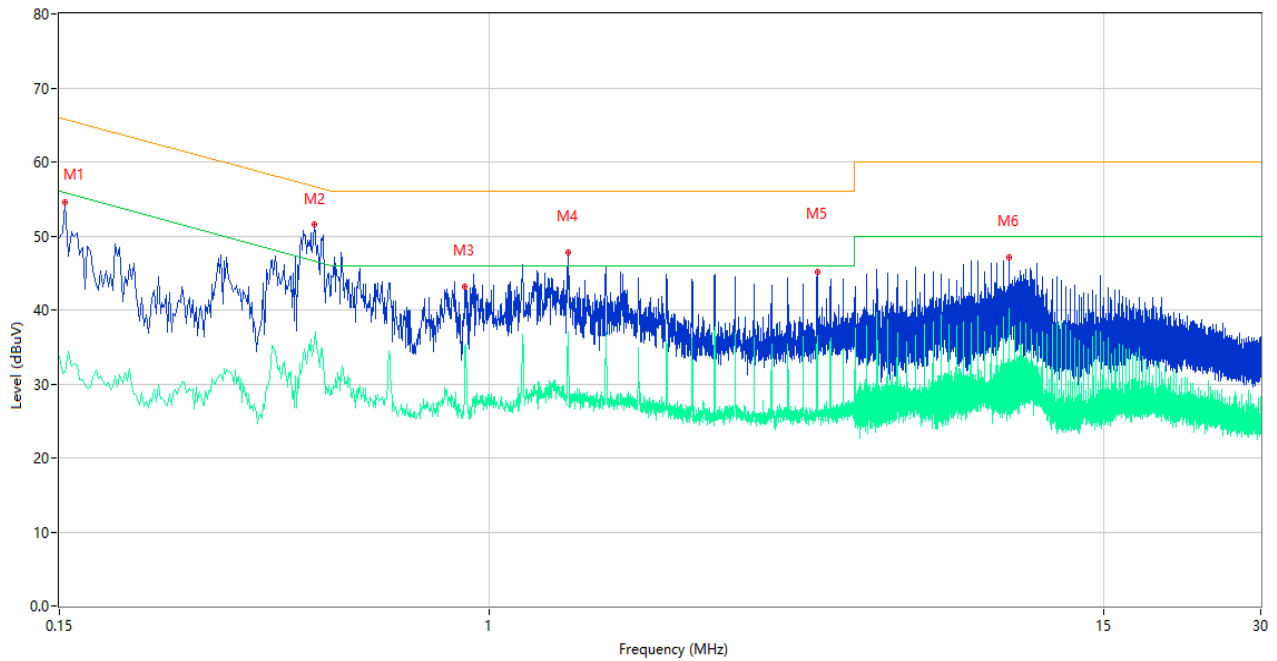
Mode 2 Test Data and Plots

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	54.13	10.41	65.67	-11.54	Peak	L	Pass
1**	0.156	31.92	10.41	55.67	-23.75	AV	L	Pass
2	0.480	46.58	10.29	56.34	-9.76	Peak	L	Pass
2**	0.480	30.73	10.29	46.34	-15.61	AV	L	Pass
3	0.896	43.56	10.24	56.00	-12.44	Peak	L	Pass
3**	0.896	29.55	10.24	46.00	-16.45	AV	L	Pass
4	1.378	43.54	10.25	56.00	-12.46	Peak	L	Pass
4**	1.378	26.43	10.25	46.00	-19.57	AV	L	Pass
5	2.954	42.55	10.27	56.00	-13.45	Peak	L	Pass
5**	2.954	33.58	10.27	46.00	-12.42	AV	L	Pass
6	10.156	43.24	10.37	60.00	-16.76	Peak	L	Pass
6**	10.156	33.11	10.37	50.00	-16.89	AV	L	Pass

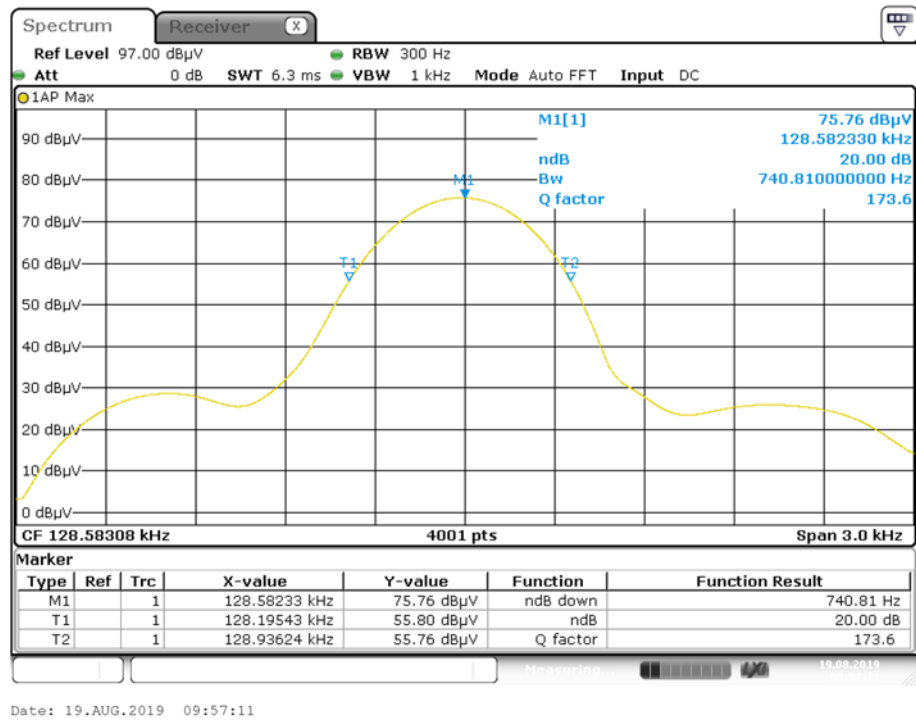
A.2.4 N Phase



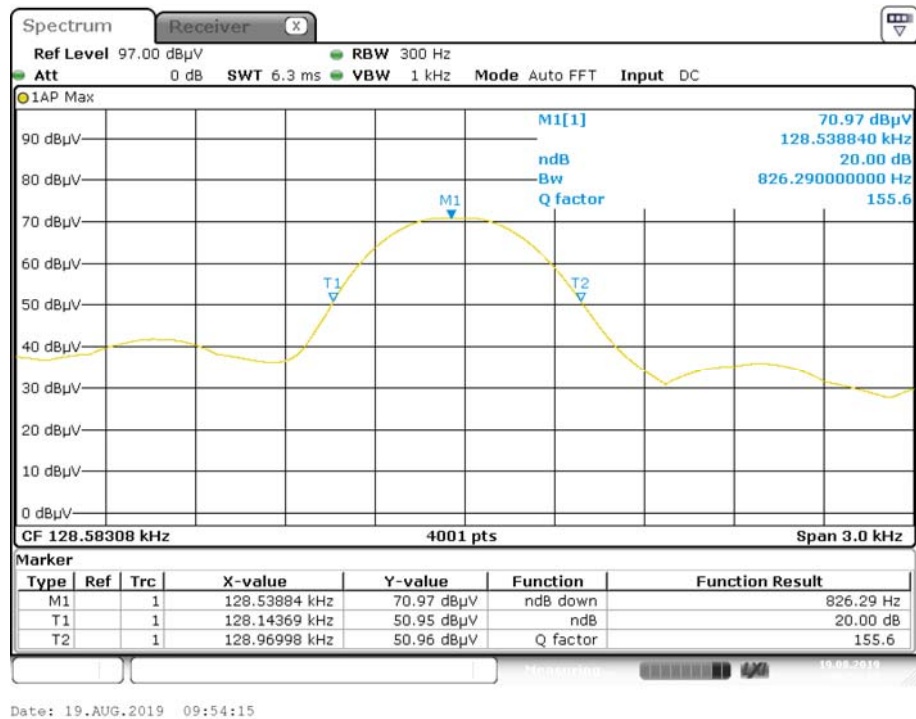
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.154	54.63	10.41	65.78	-11.15	Peak	N	Pass
1**	0.154	31.65	10.41	55.78	-24.13	AV	N	Pass
2	0.462	51.61	10.30	56.66	-5.05	Peak	N	Pass
2**	0.462	35.90	10.30	46.66	-10.76	AV	N	Pass
3	0.898	43.09	10.24	56.00	-12.91	Peak	N	Pass
3**	0.898	34.83	10.24	46.00	-11.17	AV	N	Pass
4	1.412	47.69	10.25	56.00	-8.31	Peak	N	Pass
4**	1.412	36.47	10.25	46.00	-9.53	AV	N	Pass
5	4.240	45.12	10.31	56.00	-10.88	Peak	N	Pass
5**	4.240	36.12	10.31	46.00	-9.88	AV	N	Pass
6	9.892	47.19	10.37	60.00	-12.81	Peak	N	Pass
6**	9.892	32.77	10.37	50.00	-17.23	AV	N	Pass

A.3 20 dB Bandwidth

Mode 1 Test Data and Plots

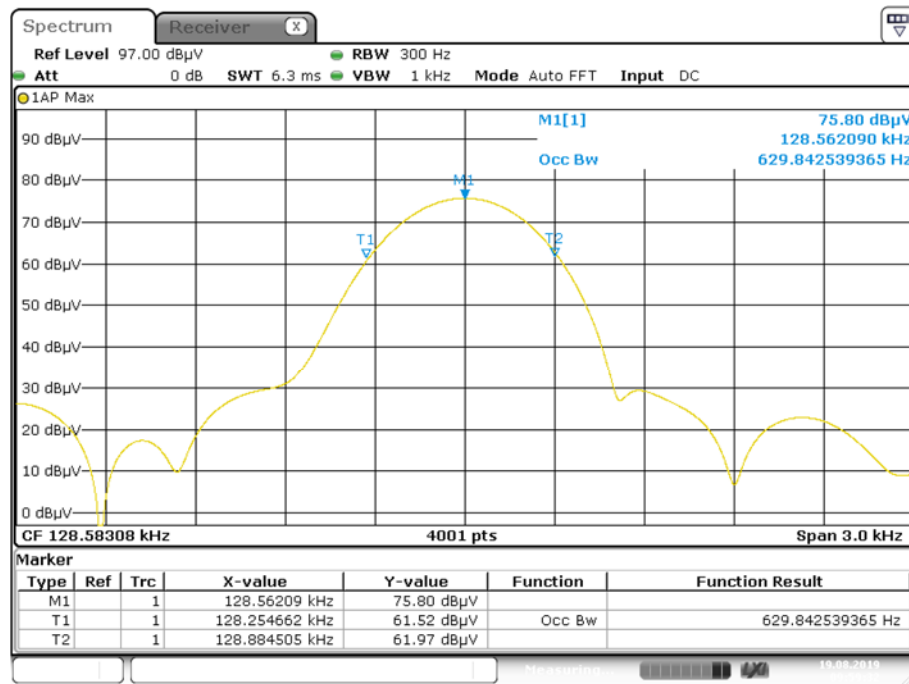


Mode 2 Test Data and Plots

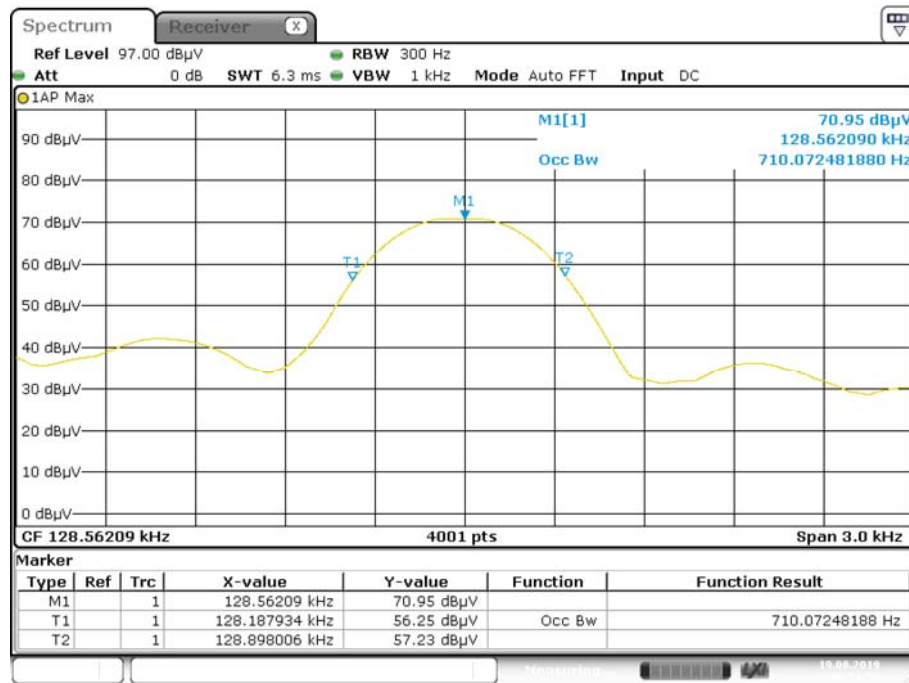


99% Occupied Bandwidth

Mode 1 Test Data and Plots



Mode 2 Test Data and Plots



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ1980154-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ980154-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ1980154-AI.PDF”.

--END OF REPORT--