

FCC

RF

TEST REPORT

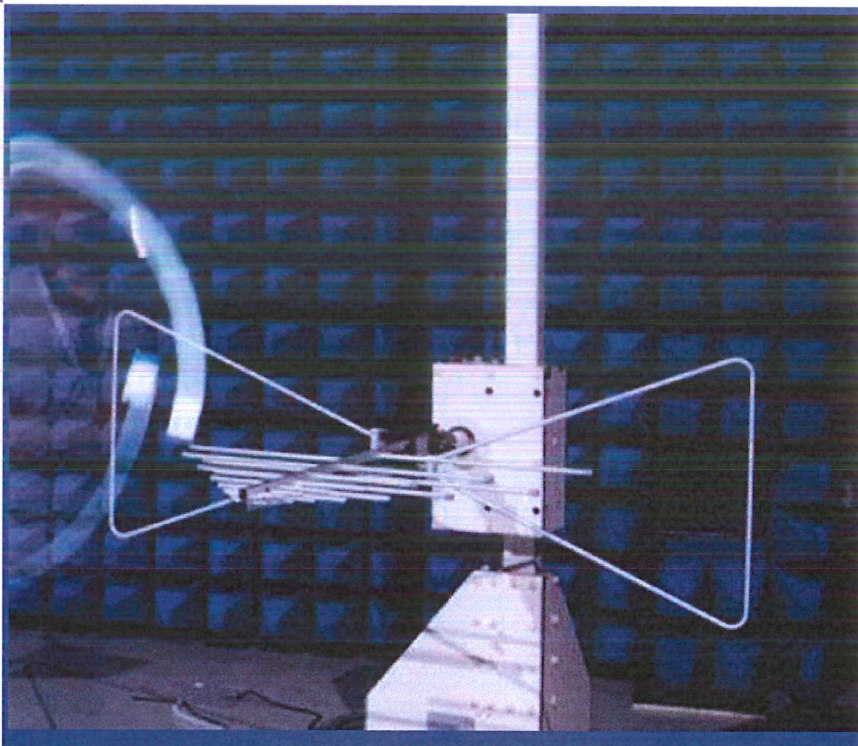
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
wireless charger

ISSUED TO
Hong chuang shen zi (shen zhen) Technology Co., Ltd

4B76 No. 93, Qianjin 2nd Road, Area 81, Hexi Community, Xixiang
Street, Baoan District, Shenzhen



Tested by: Xiong Chong
Xiong Chong

Date Sep. 28, 2020

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date Sep. 28, 2020

Report No.: BL-SZ2080333-402

EUT Name: wireless charger

Model Name: HX263 (refer section 2.4)

Brand Name: HALCURT

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: 2AW7C-HX263-1

Test Conclusion: Pass

Test Date: Aug. 17, 2020 ~ Aug. 31, 2016

Date of Issue: Sep. 28, 2020

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>Sep. 18, 2020</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Sep. 27, 2020</u>	<u>Updated Section 2.6 Technical Information</u>
<u>Rev. 03</u>	<u>Sep. 28, 2020</u>	<u>Added EUT Serial Number in section 2.4</u>

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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 reference to the report template version v2.7.
- (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.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Hong chuang shen zi (shen zhen) Technology Co., Ltd
Address	4B76 No. 93, Qianjin 2nd Road, Area 81, Hexi Community, Xixiang Street, Baoan District, Shenzhen

2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	wireless charger
Model Name Under Test	HX263, HX263-1, HX263-2, HX356, XH343
Series Model Name	N/A
Description of Model name differentiation	The model changed for different market and customer, the others are the same.
Series Number	H02070263001
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Adapter	
	Brand Name	wirezon
	Model No.	CH100
	Serial No.	N/A
	Rated Input	100-240 V~, 0.5 A, 50/60 Hz
	Rated Output	5 V= 3 A, 9 V= 2 A, 12 V= 1.5 A
Ancillary Equipment 2	USB Cable	
	Model No.	N/A
	Length (Approx.)	0.8 m

2.6 Technical Information

Network and Wireless connectivity	Qi
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The requirement for the following technical information of the EUT was tested in this report:

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-19 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
Note: The EUT have three work modes: Mode1: EUT + USB Cable + Adapter Mode2: EUT + USB Cable + Adapter + Watch Mode3: EUT + USB Cable + Adapter + Phone				

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)	2.96 dB
Radiated emissions (30 MHz-1 GHz)	3.66 dB
Radiated emissions (1 GHz-18 GHz)	5.57 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

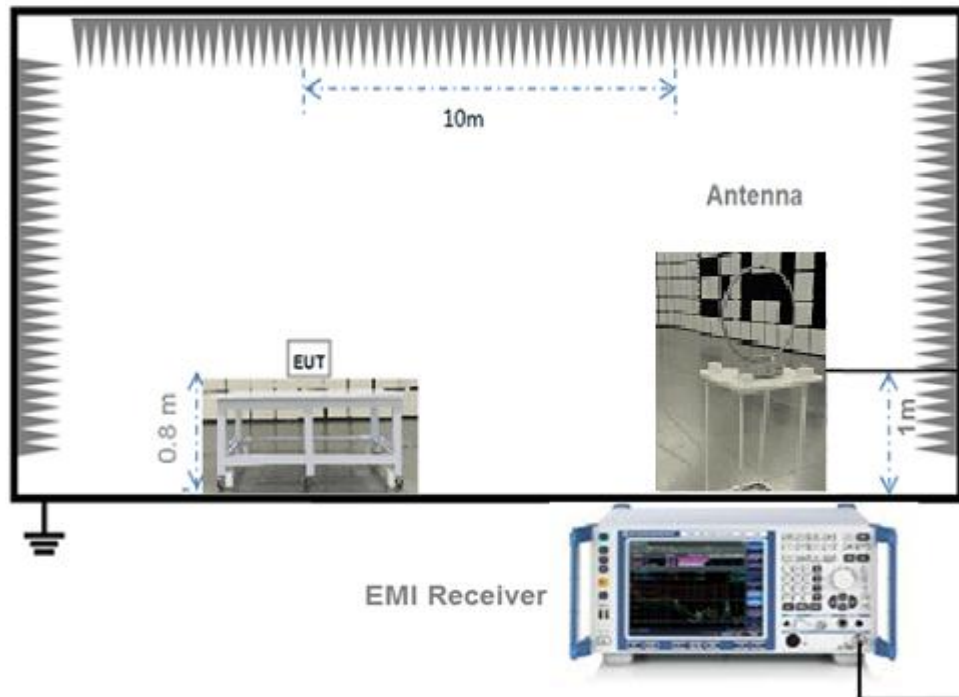
Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	AC 120 V/60 Hz

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2020.06.09	2021.06.08
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2019.10.29	2021.10.28
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	N/A	2018.08.08	2021.08.07
EMI Receiver	KEYSIGHT	N9010B	MY5711030 9	2020.06.09	2021.06.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2. 8m	N/A	2018.08.16	2021.08.15
Test Software	BALUN	BL410_E	V19.918	--	--
Watch	N/A	N/A	N/A	N/A	N/A
Phone	N/A	N/A	N/A	N/A	N/A

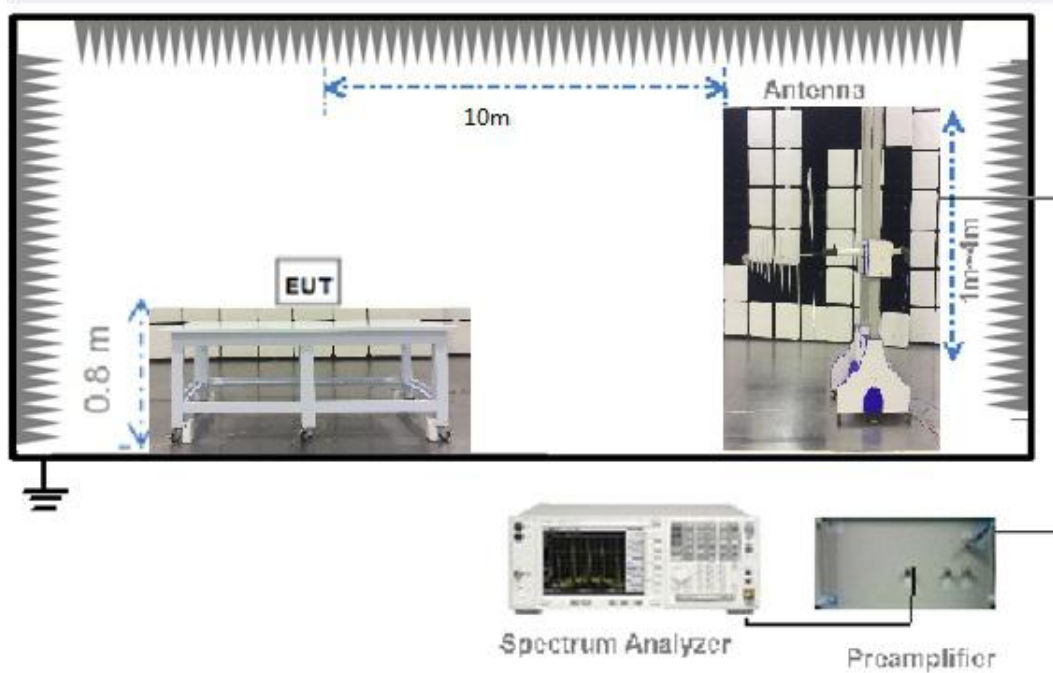
4.3 Test Setups

Test Setup 1



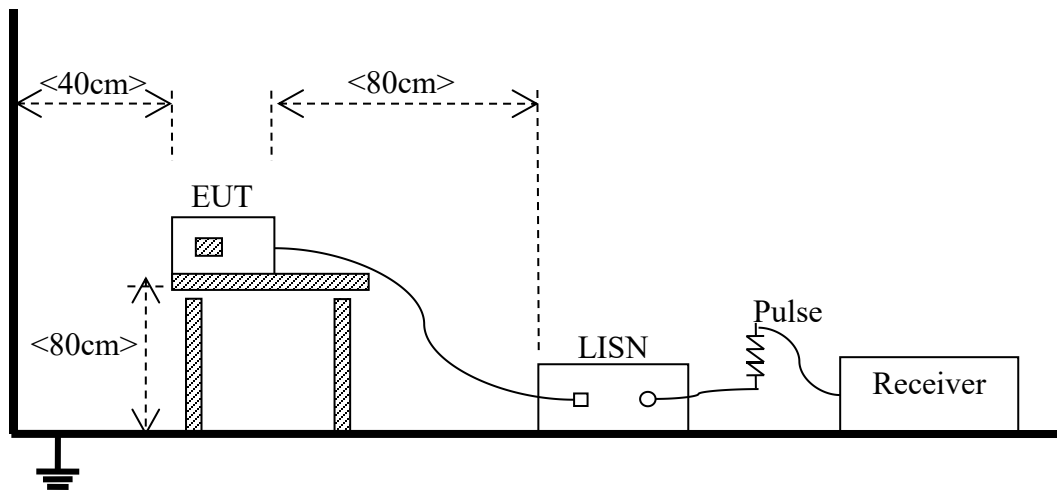
For Radiated Emission Test (Below 30 MHz))

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 ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 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 $\text{dB}\mu\text{V/m}@3\text{ m (AV)}$ and 74 $\text{dB}\mu\text{V/m}@3\text{ m (PK)}$
- 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, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \cdot \log (2400/9) + 40 \log (300/10) = 107.5$ ($\text{dB}\mu\text{V/m}$).
- 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, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \cdot \log (100) + 20 \log (3/10) = 29.5$ ($\text{dB}\mu\text{V/m}$).

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

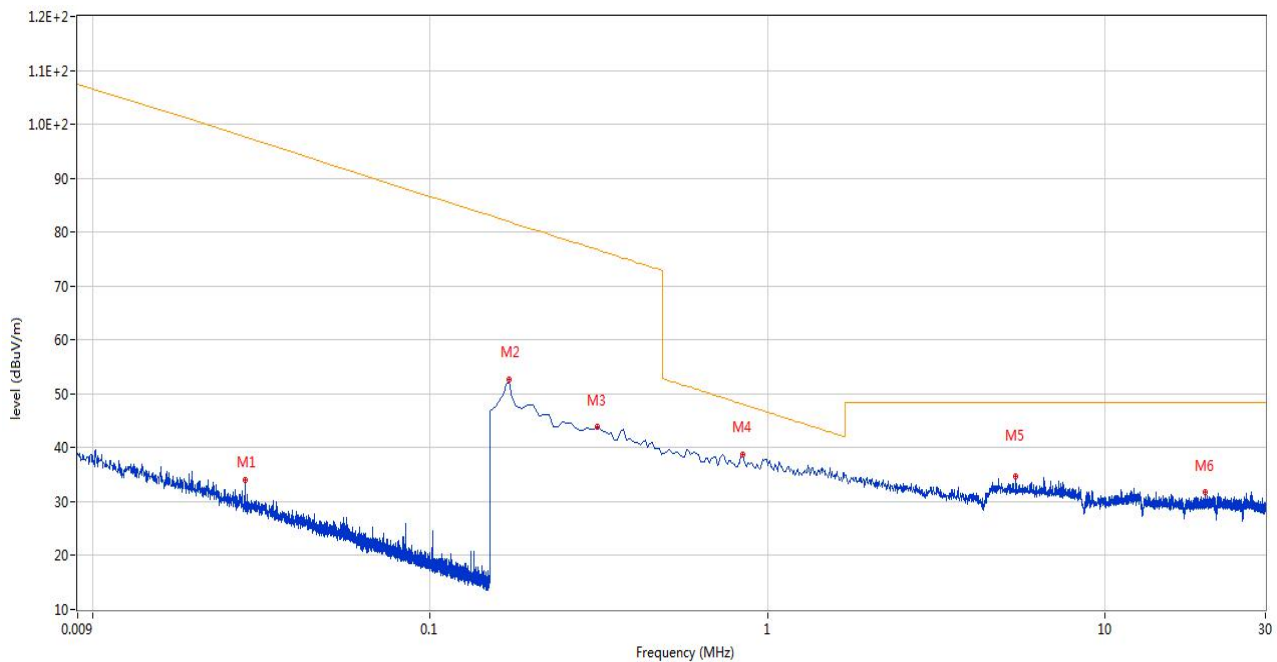
A.1 Radiated Emission

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.

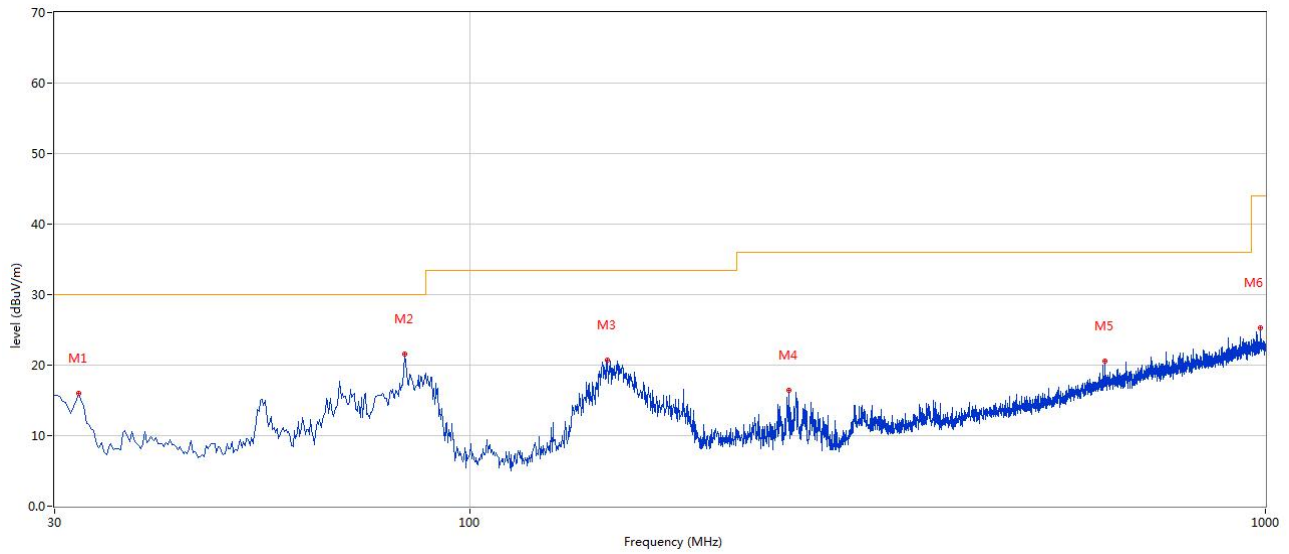
QI Test Data and Plots(mode 1)

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



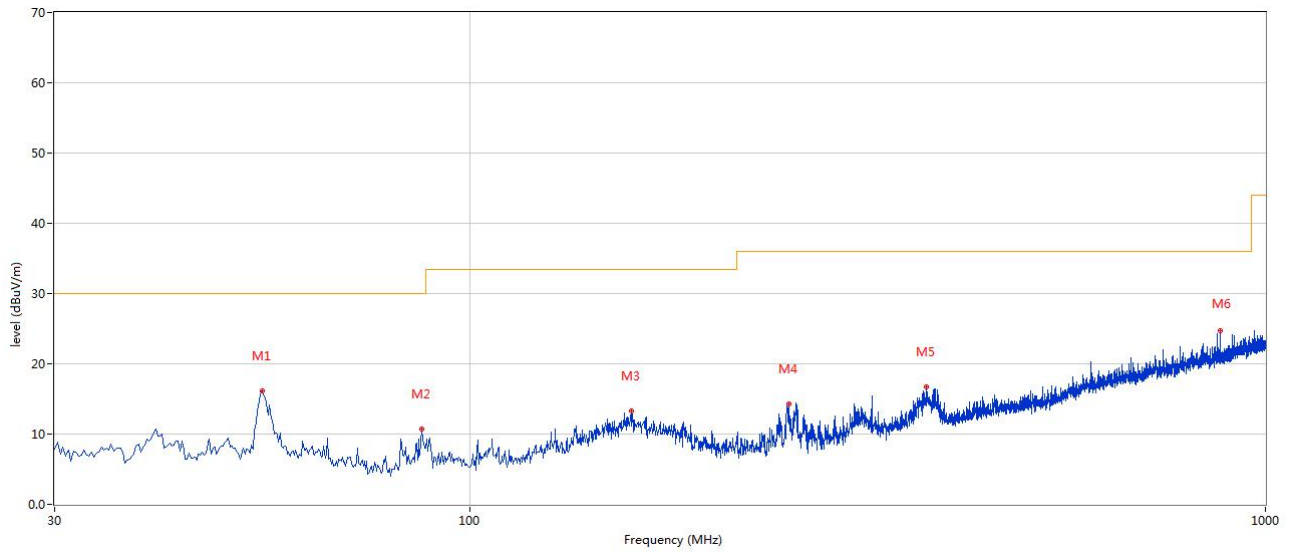
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.028	34.03	20.15	97.6	-63.57	Peak	176.00	100	Vertical	Pass
2	0.172	52.35	20.10	81.9	-29.57	Peak	299.00	100	Vertical	N/A
3	0.314	43.89	20.15	76.7	-32.81	Peak	25.00	100	Vertical	Pass
4	0.844	38.83	20.50	48.1	-9.27	Peak	360.00	100	Vertical	Pass
5	5.462	34.64	20.81	48.5	-13.86	Peak	299.00	100	Vertical	Pass
6	19.824	31.81	21.14	48.5	-16.69	Peak	149.00	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 (Degree)	Height (cm)	Antenna	Verdict
1	32.182	15.98	-27.46	30.0	-14.02	Peak	265.00	200	Vertical	Pass
2	82.609	21.60	-31.29	30.0	-8.40	Peak	295.00	200	Vertical	Pass
3	148.795	20.65	-25.94	33.5	-12.85	Peak	130.00	100	Vertical	Pass
4	251.590	16.44	-27.33	36.0	-19.56	Peak	360.00	200	Vertical	Pass
5	627.613	20.60	-17.19	36.0	-15.40	Peak	285.00	200	Vertical	Pass
6	986.423	25.29	-11.10	44.0	-18.71	Peak	236.00	100	Vertical	Pass

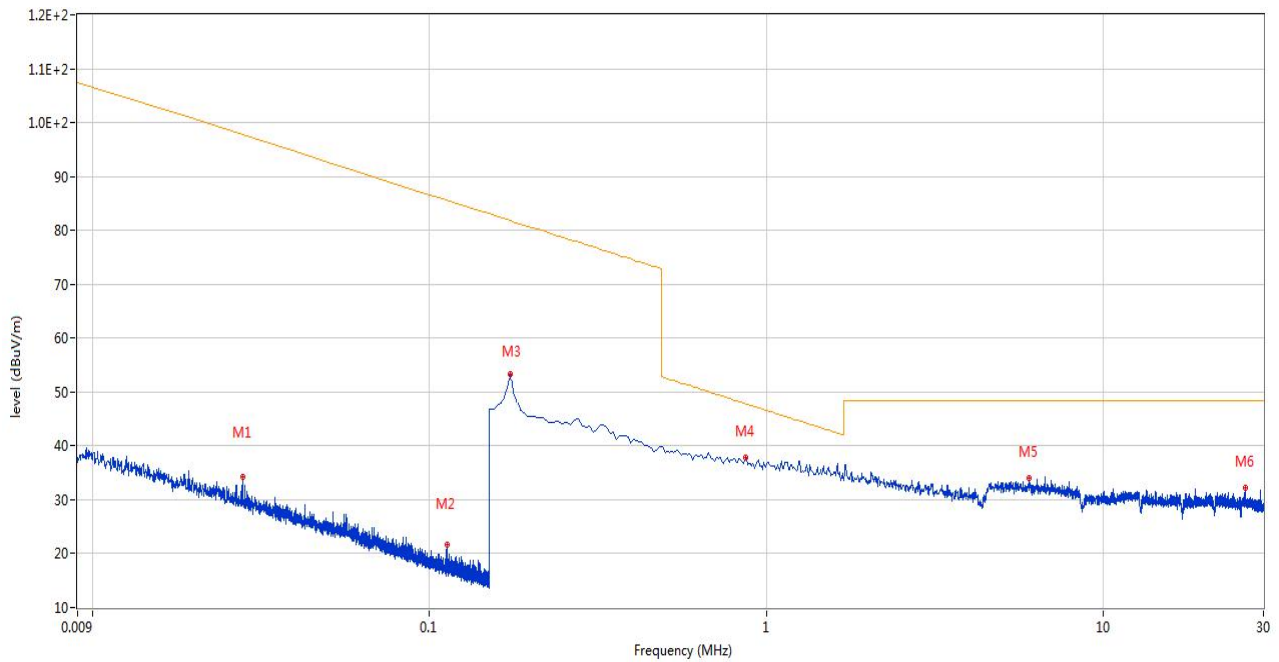
A.1.3 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.729	16.21	-27.54	30.0	-13.79	Peak	236.00	300	Horizontal	Pass
2	86.973	10.72	-31.07	30.0	-19.28	Peak	174.00	400	Horizontal	Pass
3	159.220	13.25	-25.83	33.5	-20.25	Peak	351.00	400	Horizontal	Pass
4	251.590	14.35	-27.33	36.0	-21.65	Peak	45.00	300	Horizontal	Pass
5	374.991	16.76	-23.84	36.0	-19.24	Peak	360.00	400	Horizontal	Pass
6	878.053	24.74	-12.85	36.0	-11.26	Peak	186.00	300	Horizontal	Pass

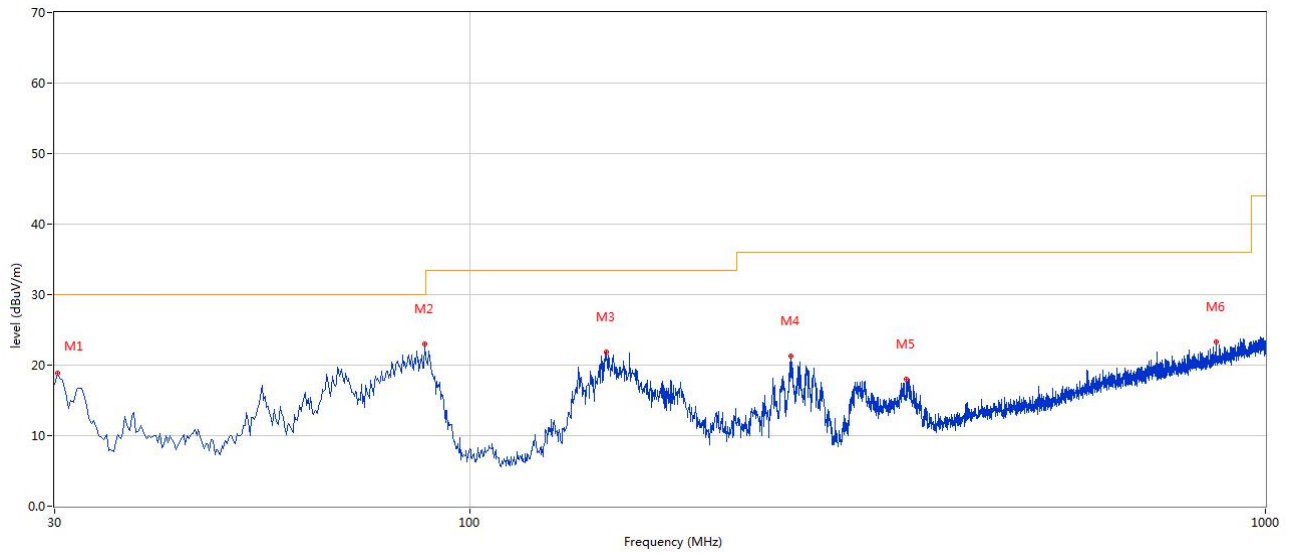
QI Test Data and Plots(mode 2)

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



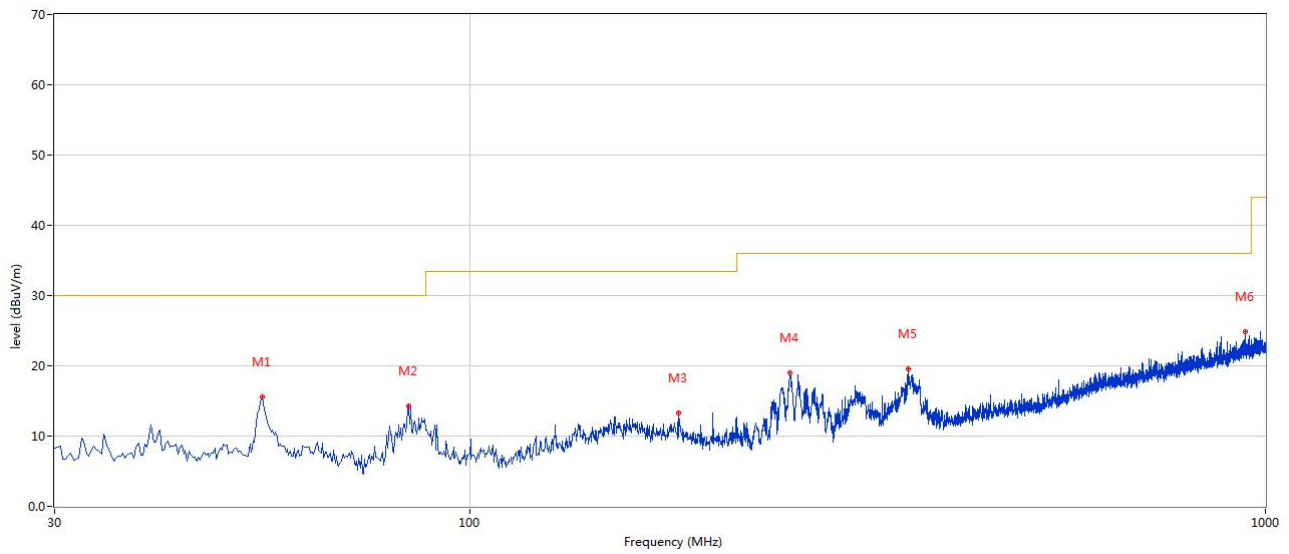
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.028	33.71	20.17	97.8	-64.09	Peak	326.00	100	Vertical	Pass
2	0.115	21.64	20.17	85.4	-63.76	Peak	247.00	100	Vertical	Pass
3	0.172	53.21	20.10	81.9	-28.69	Peak	334.00	100	Vertical	N/A
4	0.866	37.85	20.50	47.8	-9.95	Peak	96.00	100	Vertical	Pass
5	6.051	33.99	20.82	48.5	-14.51	Peak	350.00	100	Vertical	Pass
6	26.531	32.27	21.21	48.5	-16.23	Peak	210.00	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 (Degree)	Height (cm)	Antenna	Verdict
1	30.242	18.91	-27.46	30.0	-11.09	Peak	179.00	200	Vertical	Pass
2	87.701	23.02	-31.07	30.0	-6.98	Peak	120.00	100	Vertical	Pass
3	148.310	21.93	-25.94	33.5	-11.57	Peak	135.00	100	Vertical	Pass
4	253.287	21.27	-27.22	36.0	-14.73	Peak	181.00	100	Vertical	Pass
5	353.899	18.03	-24.24	36.0	-17.97	Peak	211.00	100	Vertical	Pass
6	866.901	23.23	-12.84	36.0	-12.77	Peak	341.00	200	Vertical	Pass

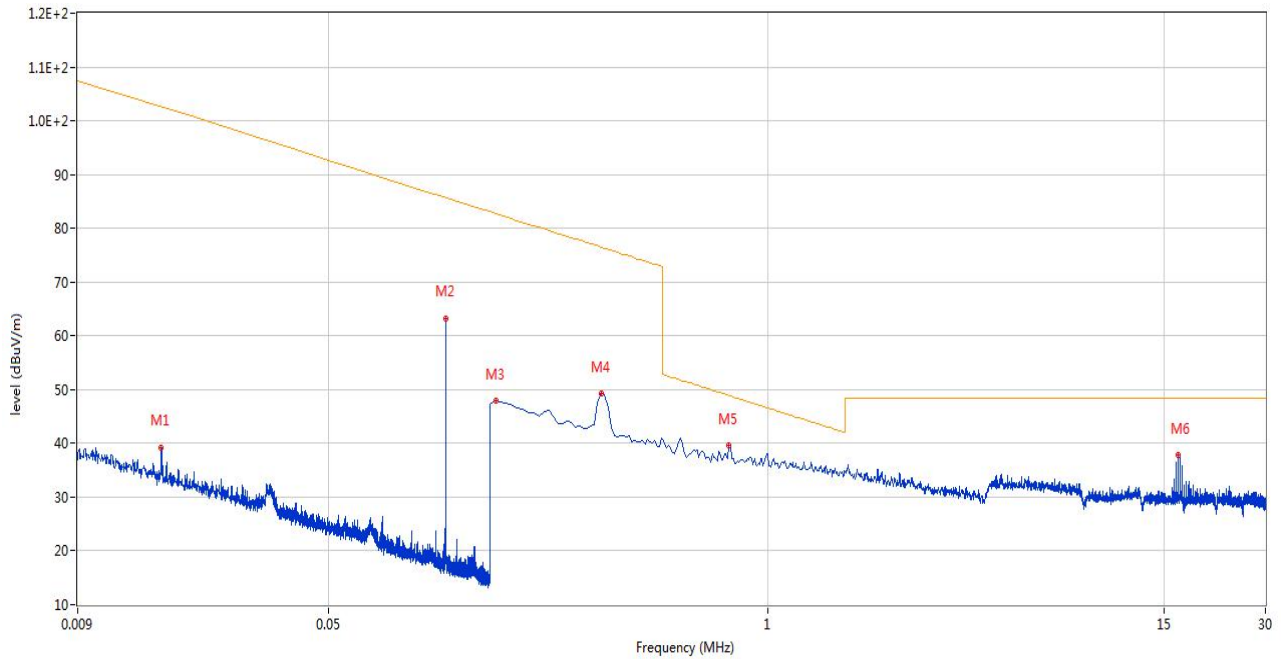
A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.729	15.58	-27.54	30.0	-14.42	Peak	215.00	400	Horizontal	Pass
2	83.579	14.31	-31.28	30.0	-15.69	Peak	159.00	400	Horizontal	Pass
3	182.979	13.26	-28.27	33.5	-20.24	Peak	53.00	400	Horizontal	Pass
4	252.074	19.03	-27.30	36.0	-16.97	Peak	236.00	300	Horizontal	Pass
5	355.354	19.61	-24.08	36.0	-16.39	Peak	166.00	300	Horizontal	Pass
6	943.027	24.91	-11.48	36.0	-11.09	Peak	246.00	300	Horizontal	Pass

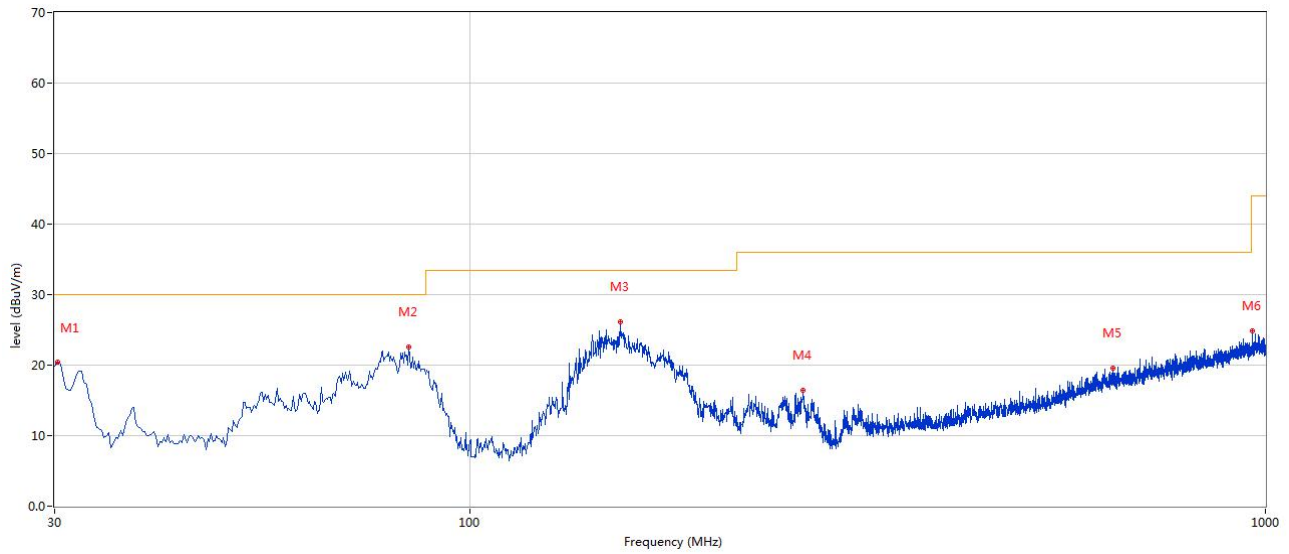
QI Test Data and Plots(mode 3)

A.1.7 Test Antenna Vertical, 9 kHz –30 MHz



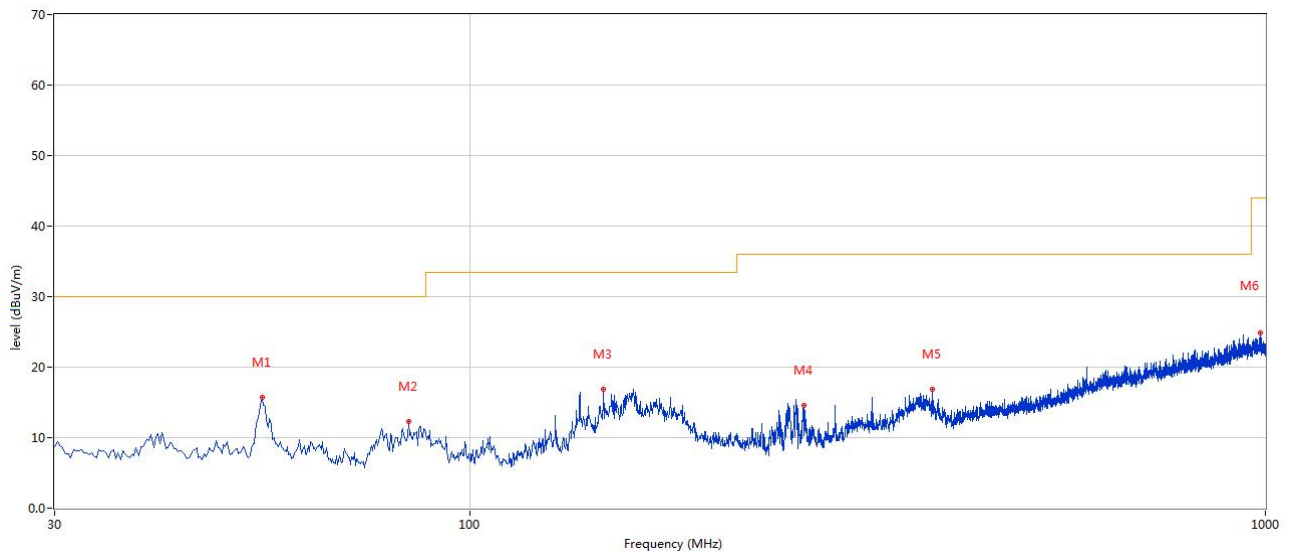
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.016	39.16	20.13	102.6	-63.44	Peak	325.00	100	Vertical	Pass
2	0.111	63.27	20.17	85.7	-22.43	Peak	157.00	100	Vertical	N/A
3	0.157	47.86	20.10	82.7	-34.84	Peak	167.00	100	Vertical	Pass
4	0.322	49.27	20.15	76.4	-27.13	Peak	141.00	100	Vertical	Pass
5	0.769	39.73	20.45	48.9	-9.17	Peak	167.00	100	Vertical	Pass
6	16.541	37.80	20.92	48.5	-10.70	Peak	327.00	100	Vertical	Pass

A.1.8 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	19.91	-27.47	30.0	-10.09	Peak	260.00	200	Vertical	Pass
2	83.579	22.54	-31.28	30.0	-7.46	Peak	225.00	200	Vertical	Pass
3	154.371	26.11	-25.77	33.5	-7.39	Peak	55.00	100	Vertical	Pass
4	262.014	16.49	-27.06	36.0	-19.51	Peak	161.00	100	Vertical	Pass
5	643.129	19.55	-16.99	36.0	-16.45	Peak	211.00	100	Vertical	Pass
6	961.937	24.83	-11.41	44.0	-19.17	Peak	150.00	100	Vertical	Pass

A.1.9 Test Antenna Horizontal, 30 MHz – 1 GHz



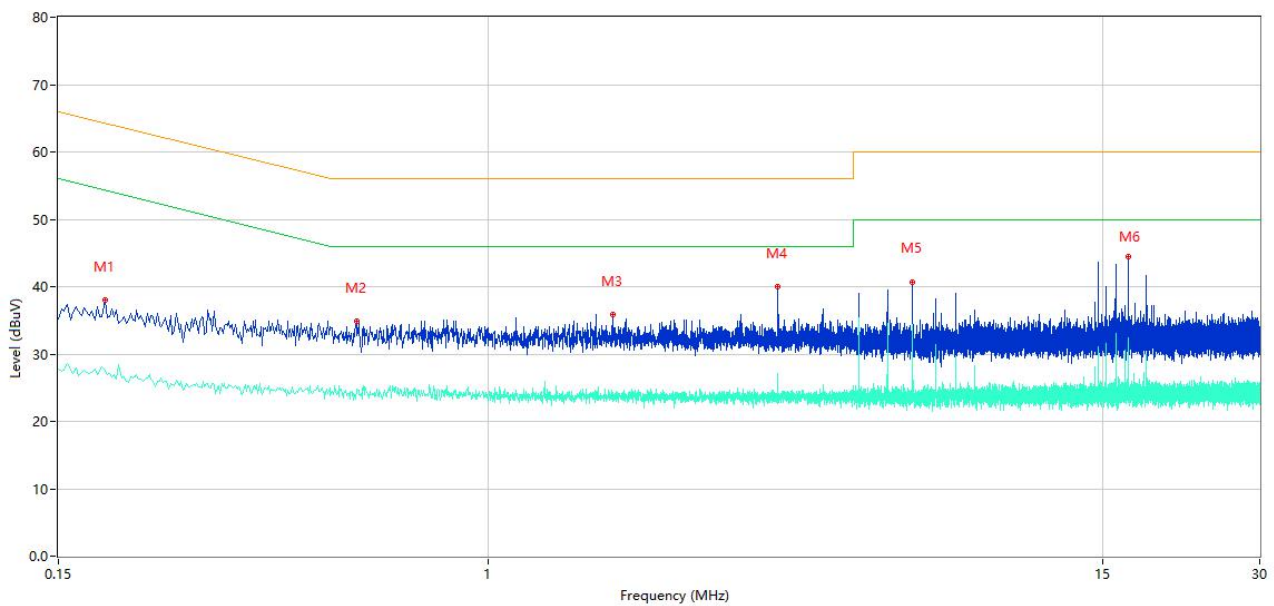
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.729	15.66	-27.54	30.0	-14.34	Peak	0.00	400	Horizontal	Pass
2	83.579	12.33	-31.28	30.0	-17.67	Peak	145.00	400	Horizontal	Pass
3	147.098	16.87	-25.94	33.5	-16.63	Peak	105.00	400	Horizontal	Pass
4	262.984	14.60	-27.09	36.0	-21.40	Peak	221.00	400	Horizontal	Pass
5	381.537	16.88	-23.54	36.0	-19.12	Peak	23.00	300	Horizontal	Pass
6	985.939	24.80	-11.11	44.0	-19.20	Peak	360.00	300	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.

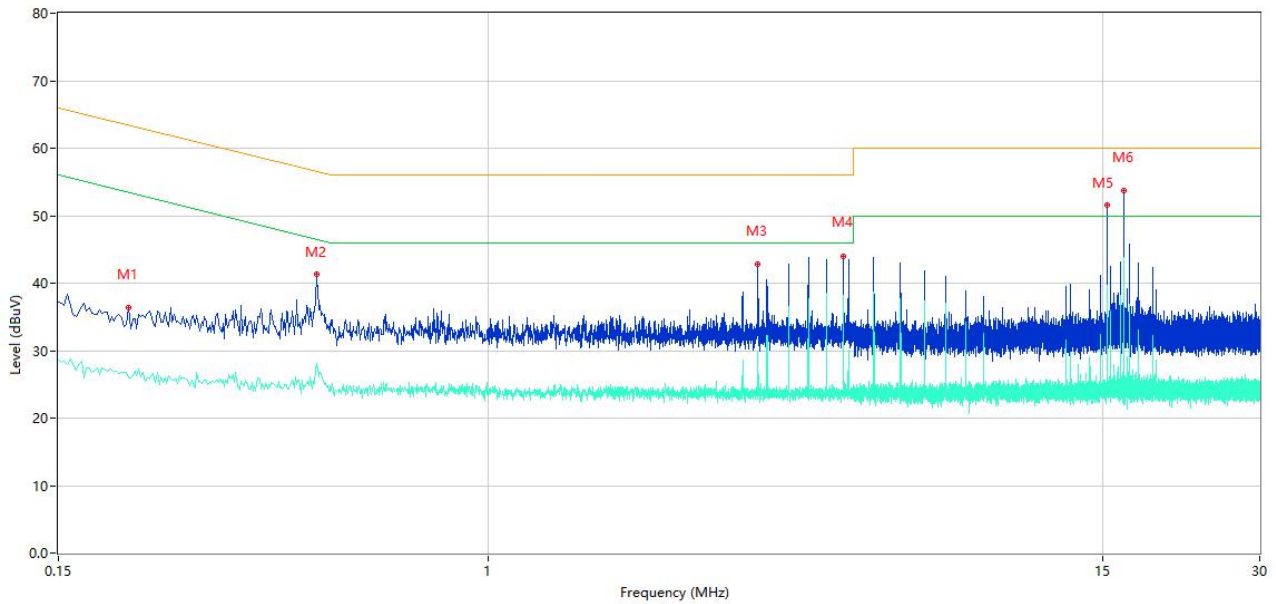
QI Test Data and Plots(mode 1)

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.184	37.98	10.39	64.30	-26.32	Peak	L	Pass
1**	0.184	27.56	10.39	54.30	-26.74	AV	L	Pass
2	0.558	34.84	10.28	56.00	-21.16	Peak	L	Pass
2**	0.558	24.69	10.28	46.00	-21.31	AV	L	Pass
3	1.730	35.84	10.26	56.00	-20.16	Peak	L	Pass
3**	1.730	23.88	10.26	46.00	-22.12	AV	L	Pass
4	3.572	39.99	10.29	56.00	-16.01	Peak	L	Pass
4**	3.572	27.09	10.29	46.00	-18.91	AV	L	Pass
5	6.494	40.62	10.34	60.00	-19.38	Peak	L	Pass
5**	6.494	34.44	10.34	50.00	-15.56	AV	L	Pass
6	16.798	44.43	10.46	60.00	-15.57	Peak	L	Pass
6**	16.798	28.24	10.46	50.00	-21.76	AV	L	Pass

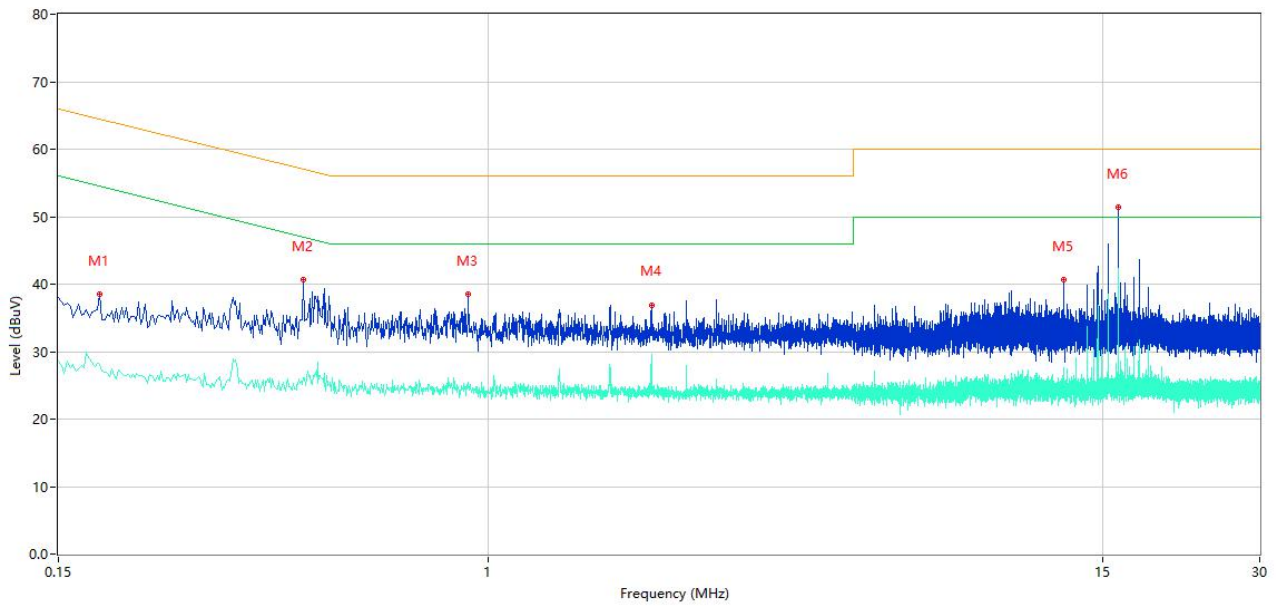
A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.204	36.33	10.38	63.45	-27.12	Peak	N	Pass
1**	0.204	25.88	10.38	53.45	-27.57	AV	N	Pass
2	0.468	41.36	10.30	56.55	-15.19	Peak	N	Pass
2**	0.468	28.02	10.30	46.55	-18.53	AV	N	Pass
3	3.284	42.78	10.29	56.00	-13.22	Peak	N	Pass
3**	3.284	29.88	10.29	46.00	-16.12	AV	N	Pass
4	4.784	43.98	10.31	56.00	-12.02	Peak	N	Pass
4**	4.784	38.22	10.31	46.00	-7.78	AV	N	Pass
5	15.304	51.56	10.42	60.00	-8.44	Peak	N	Pass
5**	15.304	39.68	10.42	50.00	-10.32	AV	N	Pass
6	16.450	53.75	10.44	60.00	-6.25	Peak	N	Pass
6**	16.450	39.18	10.44	50.00	-10.82	AV	N	Pass

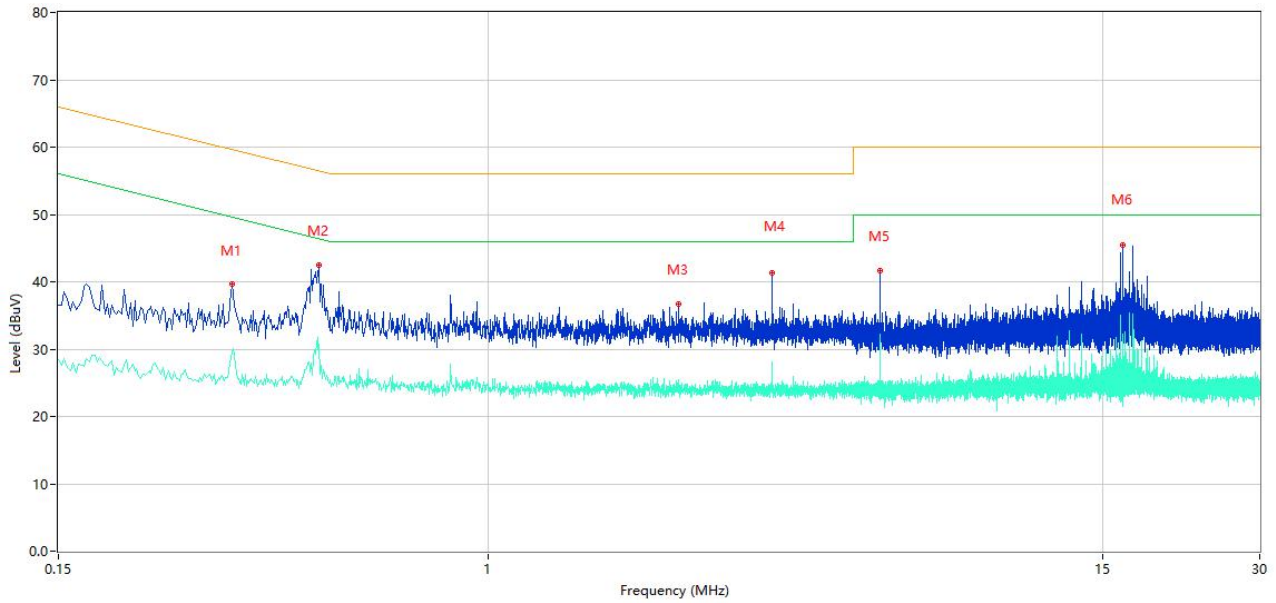
QI Test Data and Plots(mode 2)

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.180	38.53	10.39	64.49	-25.96	Peak	L	Pass
1**	0.180	28.10	10.39	54.49	-26.39	AV	L	Pass
2	0.442	40.58	10.31	57.02	-16.44	Peak	L	Pass
2**	0.442	26.08	10.31	47.02	-20.94	AV	L	Pass
3	0.916	38.49	10.24	56.00	-17.51	Peak	L	Pass
3**	0.916	24.81	10.24	46.00	-21.19	AV	L	Pass
4	2.050	36.94	10.27	56.00	-19.06	Peak	L	Pass
4**	2.050	29.52	10.27	46.00	-16.48	AV	L	Pass
5	12.636	40.59	10.39	60.00	-19.41	Peak	L	Pass
5**	12.636	25.39	10.39	50.00	-24.61	AV	L	Pass
6	16.054	51.39	10.43	60.00	-8.61	Peak	L	Pass
6**	16.054	38.47	10.43	50.00	-11.53	AV	L	Pass

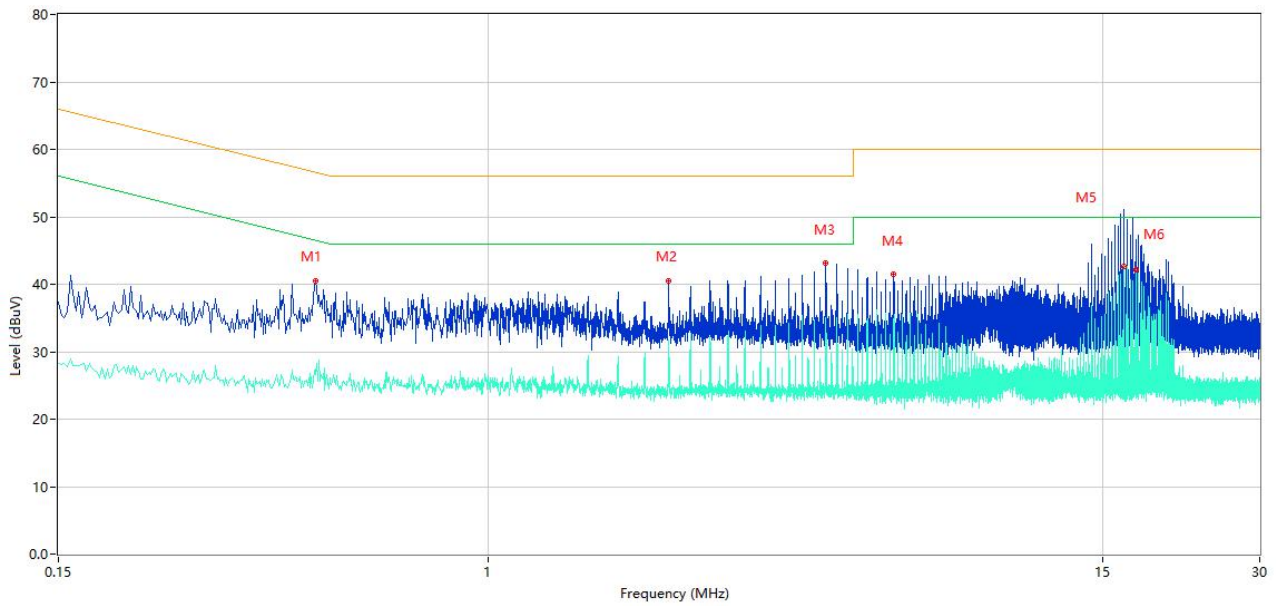
A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.322	39.69	10.33	59.66	-19.97	Peak	N	Pass
1**	0.322	29.57	10.33	49.66	-20.09	AV	N	Pass
2	0.474	42.55	10.30	56.44	-13.89	Peak	N	Pass
2**	0.474	30.78	10.30	46.44	-15.66	AV	N	Pass
3	2.312	36.65	10.27	56.00	-19.35	Peak	N	Pass
3**	2.312	23.49	10.27	46.00	-22.51	AV	N	Pass
4	3.488	41.35	10.29	56.00	-14.65	Peak	N	Pass
4**	3.488	28.07	10.29	46.00	-17.93	AV	N	Pass
5	5.620	41.71	10.32	60.00	-18.29	Peak	N	Pass
5**	5.620	32.25	10.32	50.00	-17.75	AV	N	Pass
6	16.412	45.46	10.45	60.00	-14.54	Peak	N	Pass
6**	16.412	23.85	10.45	50.00	-26.15	AV	N	Pass

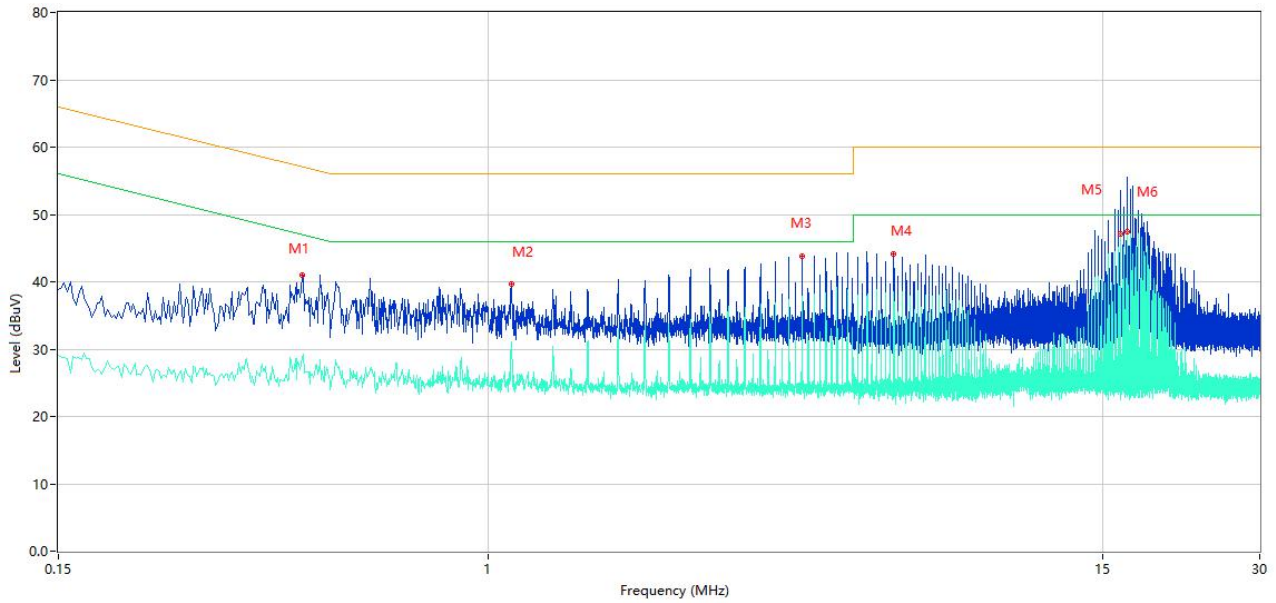
QI Test Data and Plots(mode 3)

A.2.5 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.466	40.45	10.30	56.58	-16.13	Peak	L	Pass
1**	0.466	26.66	10.30	46.58	-19.92	AV	L	Pass
2	2.214	40.48	10.27	56.00	-15.52	Peak	L	Pass
2**	2.214	31.74	10.27	46.00	-14.26	AV	L	Pass
3	4.428	43.14	10.31	56.00	-12.86	Peak	L	Pass
3**	4.428	35.02	10.31	46.00	-10.98	AV	L	Pass
4	5.976	41.45	10.33	60.00	-18.55	Peak	L	Pass
4**	5.976	34.96	10.33	50.00	-15.04	AV	L	Pass
5	16.496	51.07	10.45	60.00	-8.93	Peak	L	Pass
5**	16.496	42.71	10.45	50.00	-7.29	AV	L	Pass
6	17.380	46.53	10.47	60.00	-13.47	Peak	L	Pass
6**	17.380	42.11	10.47	50.00	-7.89	AV	L	Pass

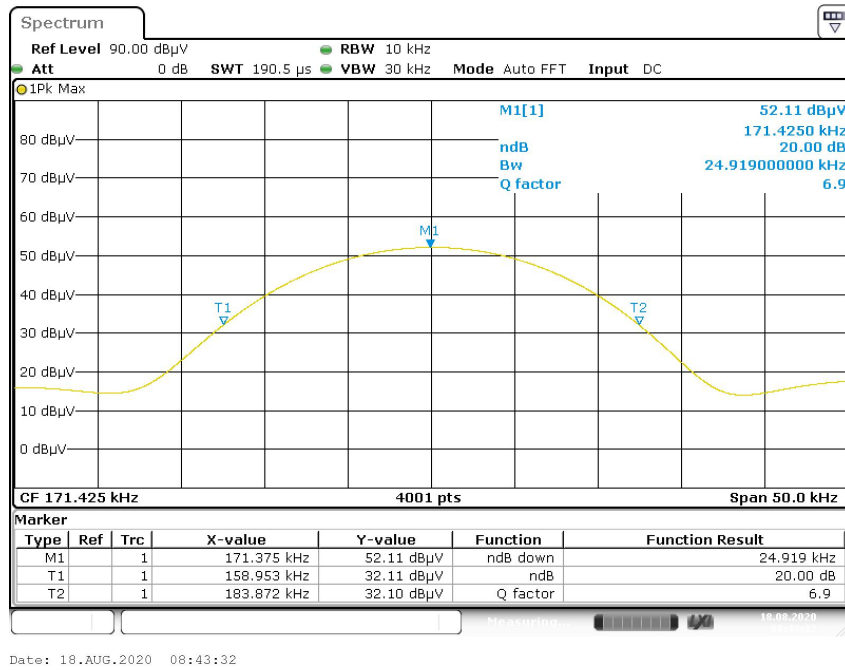
A.2.6 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.440	41.04	10.31	57.06	-16.02	Peak	N	Pass
1**	0.440	28.80	10.31	47.06	-18.26	AV	N	Pass
2	1.106	39.62	10.24	56.00	-16.38	Peak	N	Pass
2**	1.106	31.07	10.24	46.00	-14.93	AV	N	Pass
3	3.984	43.80	10.30	56.00	-12.20	Peak	N	Pass
3**	3.984	37.85	10.30	46.00	-8.15	AV	N	Pass
4	5.976	44.18	10.33	60.00	-15.82	Peak	N	Pass
4**	5.976	38.45	10.33	50.00	-11.55	AV	N	Pass
5	16.272	53.61	10.45	60.00	-6.39	Peak	N	Pass
5**	16.272	47.04	10.45	50.00	-2.96	AV	N	Pass
6	16.716	55.48	10.45	60.00	-4.52	Peak	N	Pass
6**	16.716	47.36	10.45	50.00	-2.64	AV	N	Pass

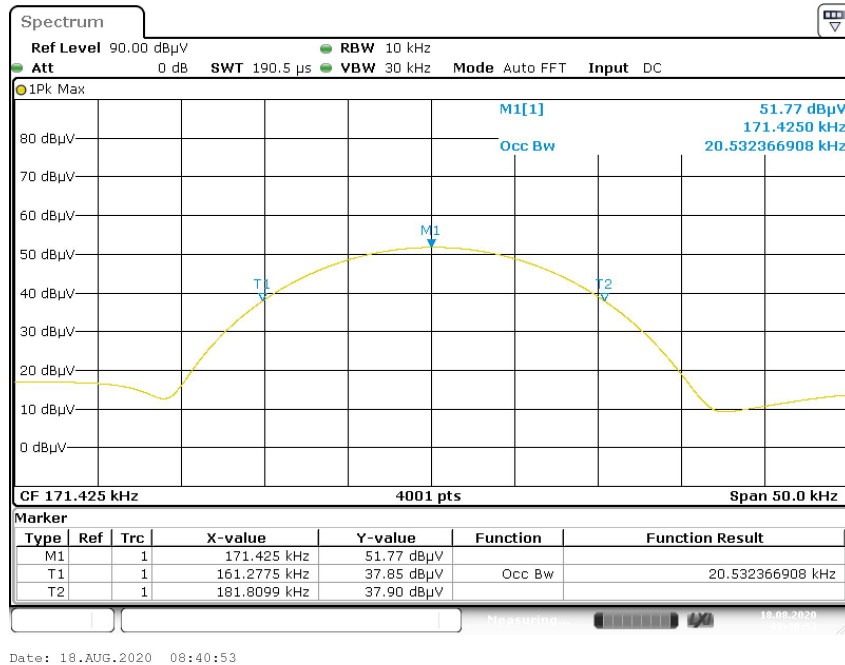
A.3 20 dB Bandwidth

QI Test Data and Plots (Mode 1)

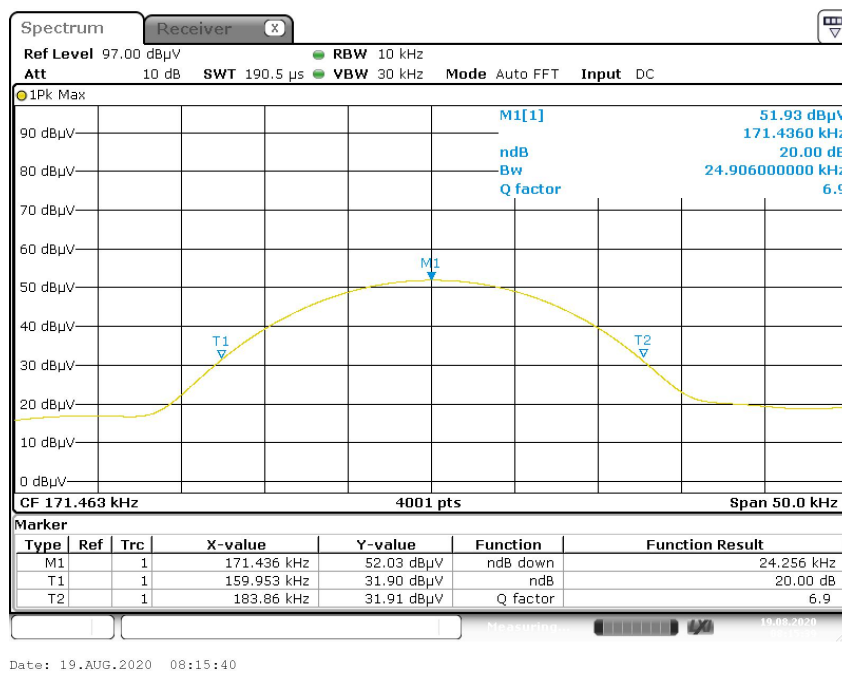


99% Occupied Bandwidth

QI Test Data and Plots (Mode 1)

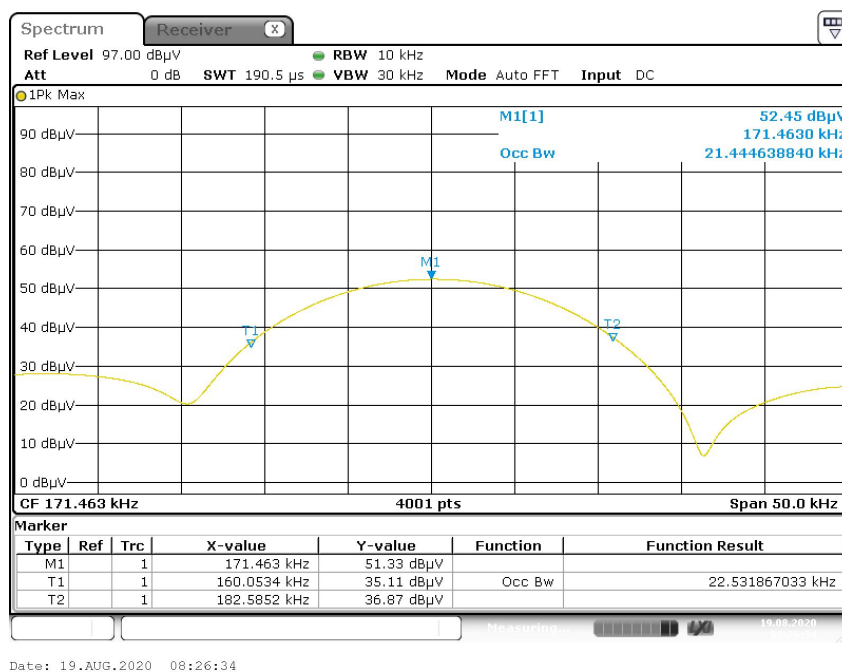


QI Test Data and Plots (Mode 2)

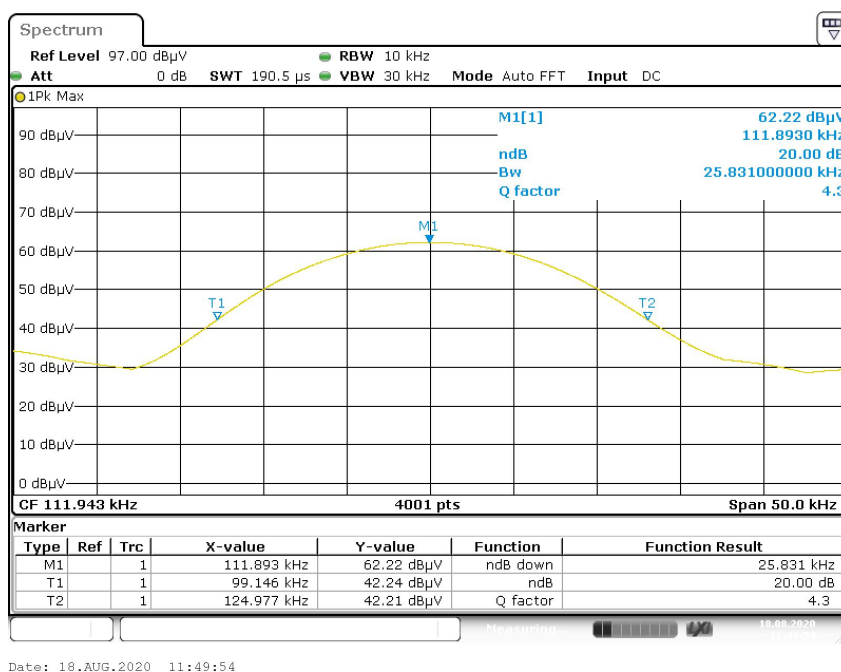


99% Occupied Bandwidth

QI Test Data and Plots (Mode 2)

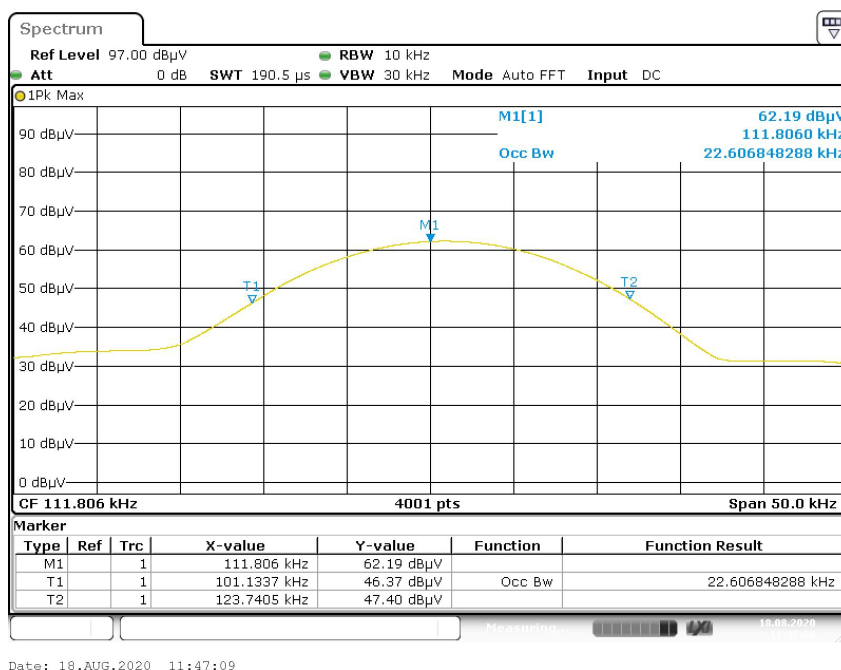


QI Test Data and Plots (Mode 3)



99% Occupied Bandwidth

QI Test Data and Plots (Mode 3)



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2080333-AE-2.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2080333-AW-2.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2080333-AI-2.PDF”.

--END OF REPORT--