

FCC

EMC

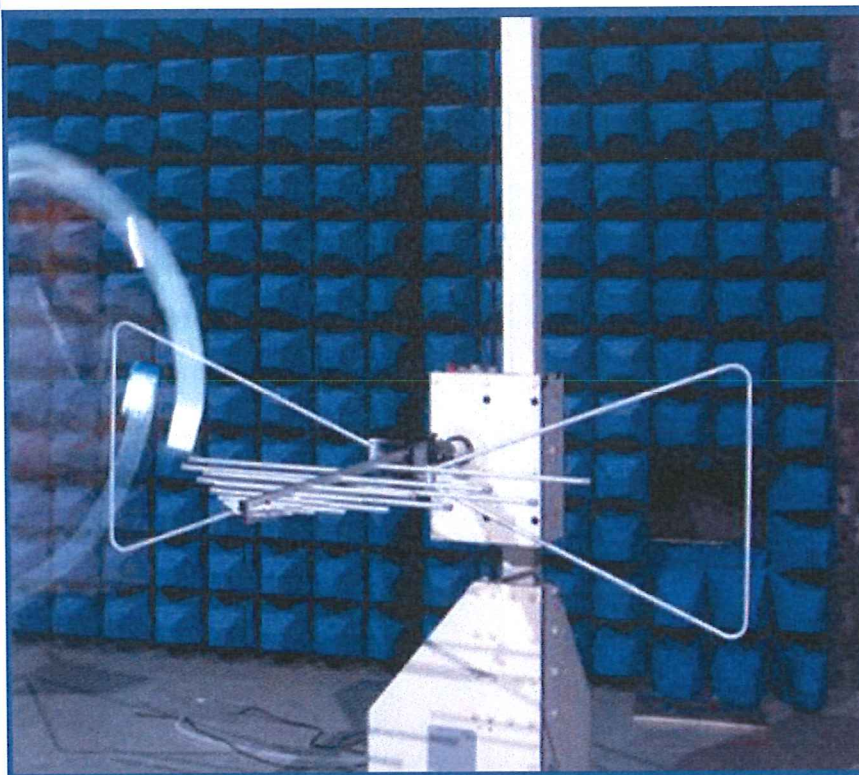
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile Phone

ISSUED TO
Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.



Tested by: Liu Zhenxiang

Liu Zhenxiang

Date: Feb. 04, 2021

Approved by: Liao Jianming

Liao Jianming
(Technical Director)

Date: Feb. 04, 2021

Report No.: BL-SZ2120002-401

EUT Name: Mobile Phone

Model Name: RMX2155

Brand Name: realme

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AU5FRMX2155

Test Conclusion: Pass

Test Date: Feb. 02, 2021 ~ Feb. 03, 2021

Date of Issue: Feb. 04, 2021

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Feb. 04, 2021</u>	<u>Initial Issue</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
Fax Number	+86 755 6182 4271

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
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 v6.8.
- (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	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.

2.3 Factory Information

N/A	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX2155
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V4
Software Version	realme UI1.0
Dimensions (Approx.)	162.35*75.46*9.45mm
Weight (Approx.)	198g

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery	
	Brand Name	realme
	Model No.	BLP807
	Serial No.	N/A
	Capacitance	Rated: 4900mAh/18.96Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	TWS Technology (Guangzhou) Limited
Ancillary Equipment 2	Li-Polymer Battery (alternative) 2	
	Brand Name	realme
	Model No.	BLP807
	Serial No.	N/A
	Capacitance	Rated: 4900mAh/18.96Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	NAVITASYS TECHNOLOGY LIMITED
Ancillary Equipment 3	Power Supply Unit 1	
	Brand Name	realme
	Model No.	VC56JAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 1.2A
	Rated Output	5.0VDC 2A or 5.0VDC 6A (US Plug)
Ancillary Equipment 4	Power Supply Unit(alternative) 2	
	Brand Name	realme
	Model No.	VC56HAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 1.2A
	Rated Output	5.0VDC 2A or 5.0VDC 6A (US Plug)
Ancillary Equipment 5	Power Supply Unit(alternative) 3	
	Brand Name	realme
	Model No.	VC56HBUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 1.2A
	Rated Output	5.0VDC 2A or 5.0VDC 6A (US Plug)
Ancillary Equipment 5	USB Cable	
	Model No.	DL129
	Length (Approx.)	1.0 m
Note 1: Letter in () means plug type.		
Note 2: All batteries are tested, only the worst data of BLP807 (NAVITASYS TECHNOLOGY LIMITED) shown in this report.		

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+/DC-HSDPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7 TDD LTE Band 38/41 Bluetooth 5.0 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, NFC
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	2.05 GHz
About the Product	The equipment is Mobile Phone, intended for used with information technology equipment.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-18 Edition)	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2
Note 1: The only difference between the EUT (test samples in this report) and testing sample of report BL-SZ2070204-401, which was issued by Shenzhen BALUN Technology Co., Ltd. on Jul. 31, 2020 are: 1. Update FCC ID to 2AUYFRMX2155 2. Add alternative power adapter VC56HBUH 3. Change EUT model name to RMX2155 All items were retest in this report, but only the worst data was shown in this report.				

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
Radiated emissions (18 GHz-40 GHz)	6.12 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	23°C to 25°C	AC 120 V/60 Hz or DC 3.87 V from Battery	50% to 55%	100 kPa to 102 kPa

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (10 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2020.06.09	2021.06.08	☐
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-0883	2020.05.11	2022.05.10	☐
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.08.08	2021.08.07	☐
Test Software	BALUN	BL410_E	V19.918	--	--	☐

Radiated Emission Test For Frequency Below 1 GHz (3 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2019.10.29	2020.10.28	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01	☒
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.27	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

Radiated Emission Test For Frequency 1 GHz-18 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2019.10.29	2020.10.28	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2021.07.01	☒
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

Radiated Emission Test For Frequency Above 18 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE & SCHWARZ	FSV40	101544	2020.02.19	2021.02.18	☒
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2019.01.05	2021.01.04	☒
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	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	--	--	☒

4.3 Test Enclosure list

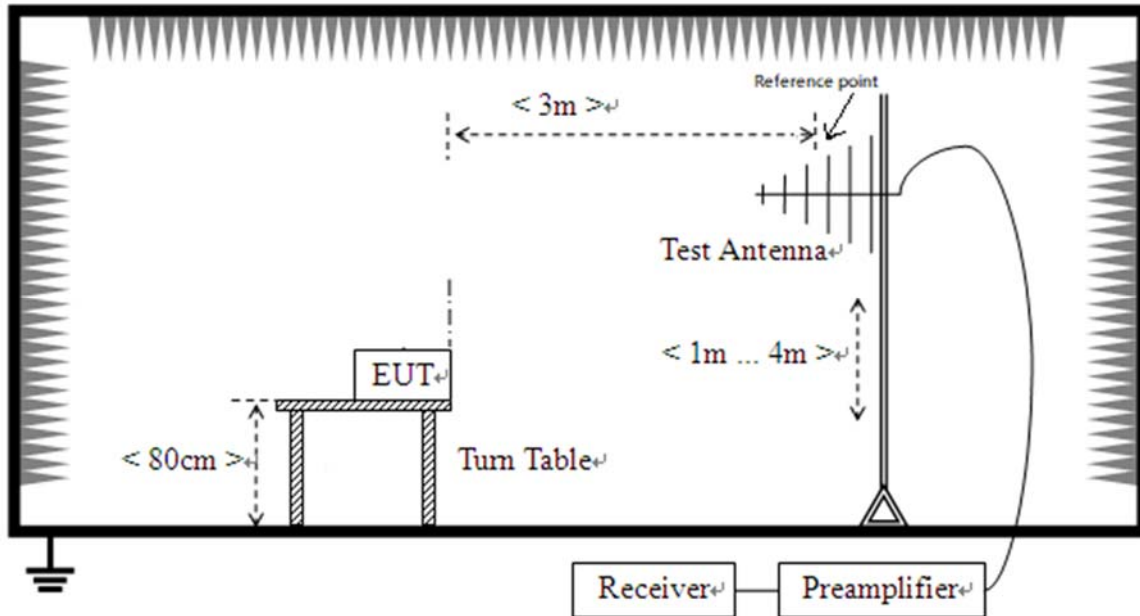
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	☐
Laptop	Apple	A1465	N/A	N/A	N/A	☒
Printer	HP	DESKJET 1000	N/A	N/A	N/A	☐
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	☐
Mouse	Logitech	M100	N/A	N/A	N/A	☐
USB disk	Kingston	N/A	N/A	N/A	N/A	☐
TF Card	Kingston	N/A	N/A	N/A	N/A	☒
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	☐
iPhone	Apple	A1586	N/A	N/A	N/A	☐
Phone	MI	M4	N/A	N/A	N/A	☐
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	☐
Wireless Communication s Test Set	R&S	CMW500	142028	N/A	Cal. Due 2021.06.08	☐
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	☐
Earphone	N/A	OPPO	N/A	1.1 m	N/A	☒
Car Battery	Camel	55530	N/A	N/A	12 V/55 Ah	☐
Artificial load	N/A	N/A	N/A	N/A	2.5 Ω /100 W	☐
Artificial load	N/A	N/A	N/A	N/A	5 Ω /100 W	☐
Electronic Load	ITECH	IT8511	N/A	N/A	N/A	☐
USB Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
DC Power Supply	ITECH	IT6863A	60001401068 7210006	N/A	N/A	☐
LCD Monitor	SAMSUNG	UA32C4000P	N/A	N/A	N/A	☐
LCD Monitor	Dell	U241HB	N/A	N/A	N/A	☐
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone + TF Card
TC02	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone + TF Card
TC03	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop+ Earphone + TF Card

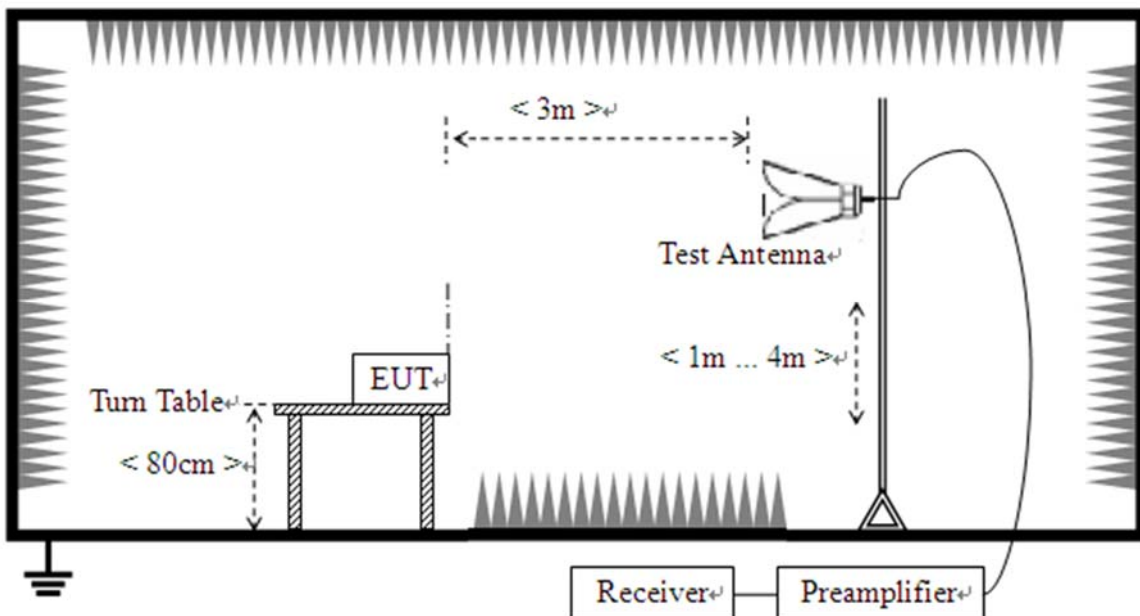
4.5 Test Setups

Test Setup 1



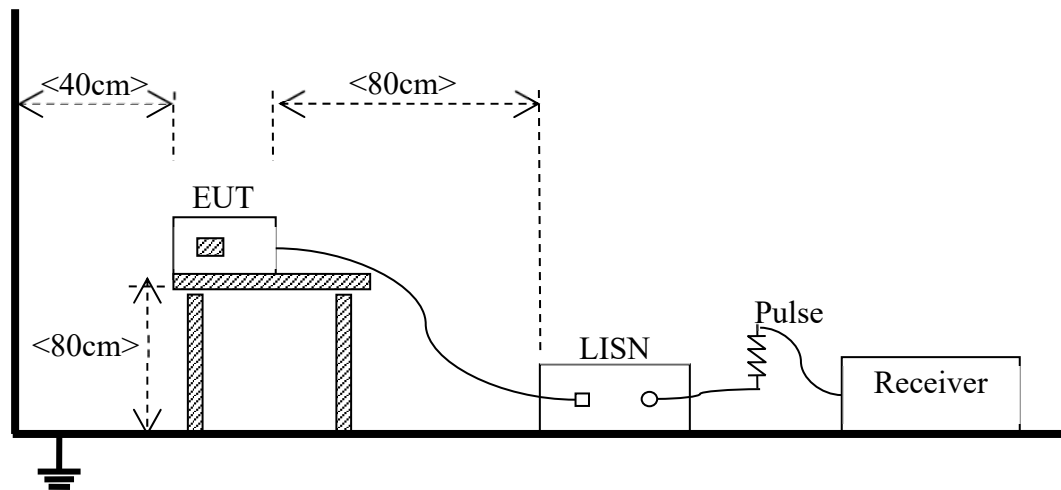
(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 2



(For Radiated Emission Test (above 1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Env.	NTNV
	Test Setup	Test Setup 1&2
	Test Configuration	TC01~TC03 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC03 ^{Note}
Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Camera Test Mode is the worst mode in this report.		

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class B (at 10 m)	Class A (at 10 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.

5.1.1.2 Test Setup

Refer to 4.5 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 (dB $\mu\text{V/m}$) = Reading (dB μV) + 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)	Class A	
	Quasi-peak (dBμV)	Average (dBμV)
0.15 - 0.50	79	66
0.50 - 30	73	60

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

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) 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 4.5 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:

$$1. \text{ Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)}$$

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

$$2. \text{ Factor = Insertion loss + Cable loss}$$

$$3. \text{ Over limit = Results – Limit.}$$

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.

Note 3: The spurious from 18G-40G is noise only, do not show on the report.

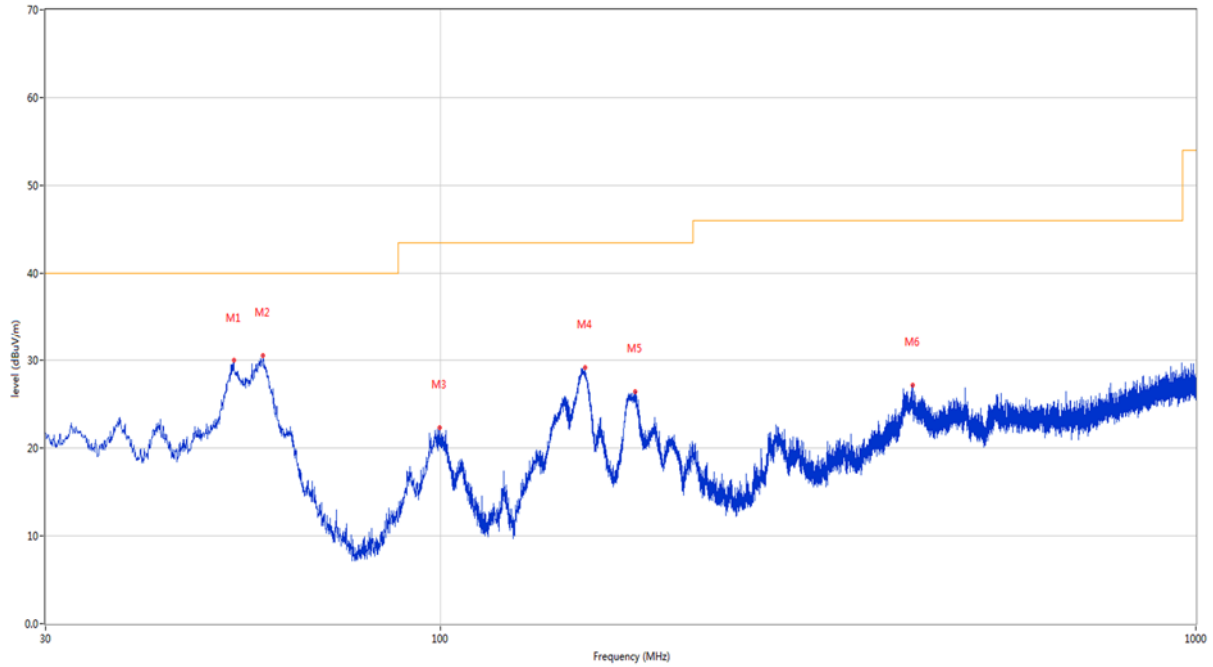
Note 4: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note 5: The differences of adapters only influence the results of Radiated Emission below 1GHz, so we only test the model VC56HBUH (US) adapter above 1GHz.

Test Data and Plots

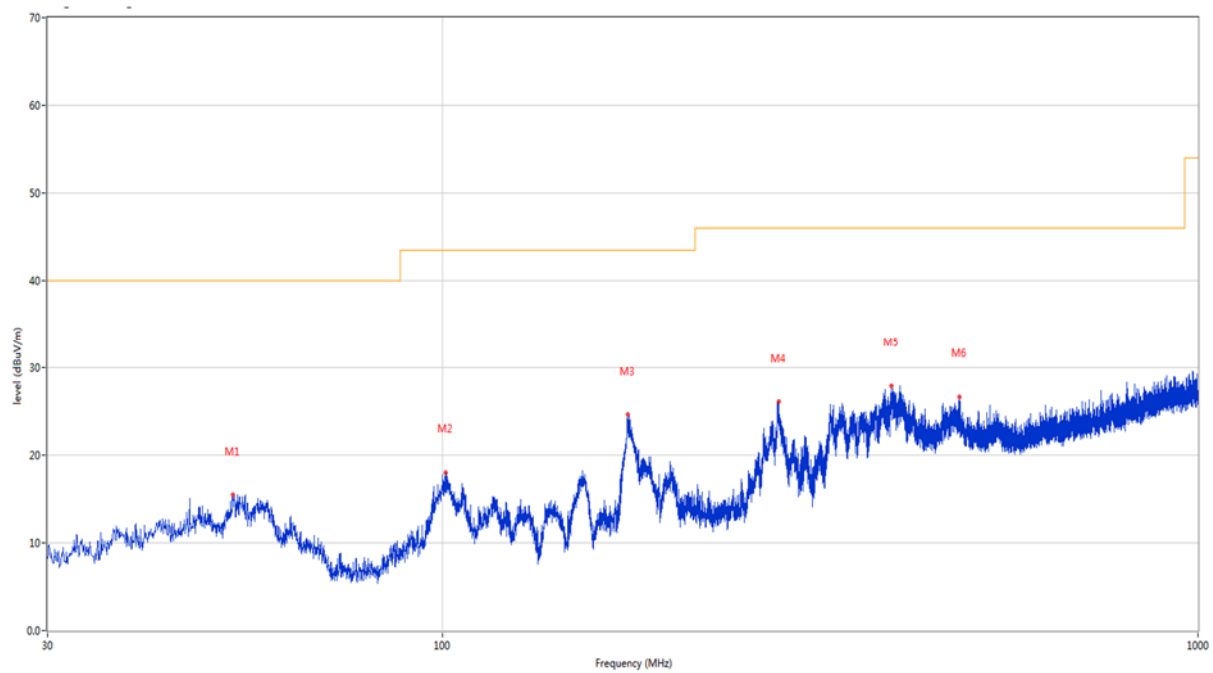
The Camera Test Mode

A.1.1 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	53.231	30.01	-22.96	40.0	-9.99	Peak	309.70	100	Vertical	Pass
2	58.227	30.48	-24.09	40.0	-9.52	Peak	236.80	100	Vertical	Pass
3	99.646	22.27	-24.79	43.5	-21.23	Peak	135.00	100	Vertical	Pass
4	155.227	29.20	-27.34	43.5	-14.30	Peak	249.70	100	Vertical	Pass
5	180.835	26.43	-25.95	43.5	-17.07	Peak	44.60	100	Vertical	Pass
6	421.541	27.16	-18.15	46.0	-18.84	Peak	14.60	100	Vertical	Pass

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

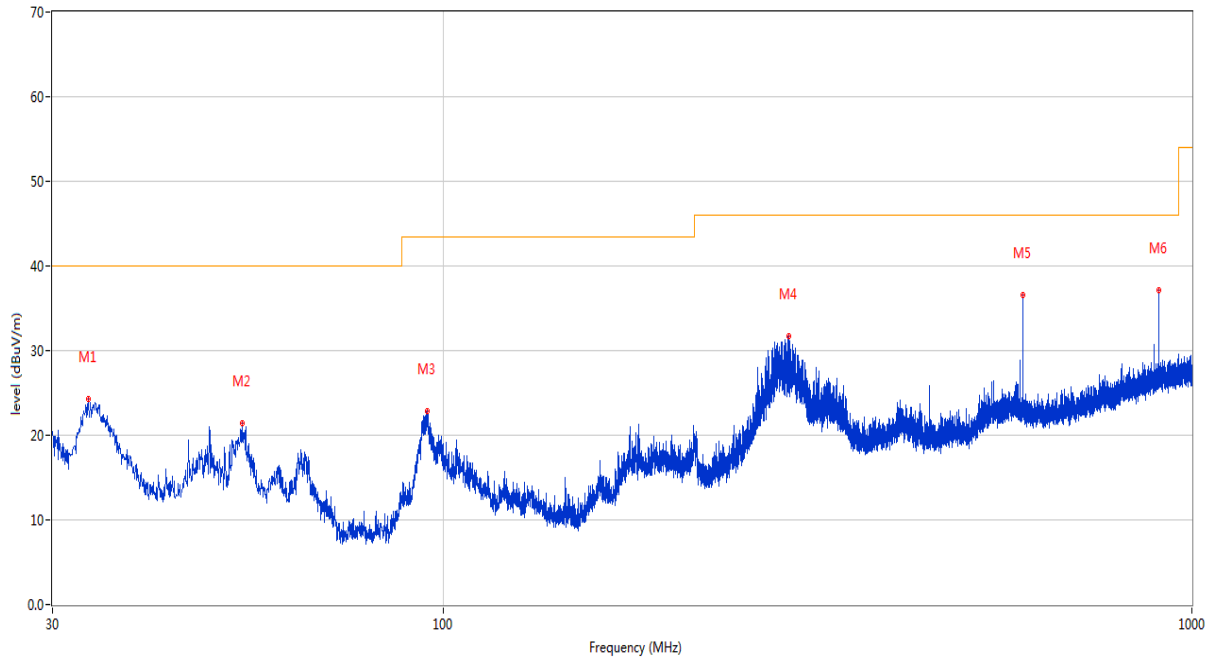


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.795	15.52	-23.04	40.0	-24.48	Peak	159.40	200	Horizontal	Pass
2	100.955	17.98	-24.66	43.5	-25.52	Peak	44.00	200	Horizontal	Pass
3	175.985	24.65	-26.37	43.5	-18.85	Peak	108.40	200	Horizontal	Pass
4	278.417	26.10	-21.89	46.0	-19.90	Peak	257.60	100	Horizontal	Pass
5	392.877	27.94	-19.03	46.0	-18.06	Peak	79.20	100	Horizontal	Pass
6	483.135	26.68	-17.12	46.0	-19.32	Peak	112.30	200	Horizontal	Pass

Test Date and Plots

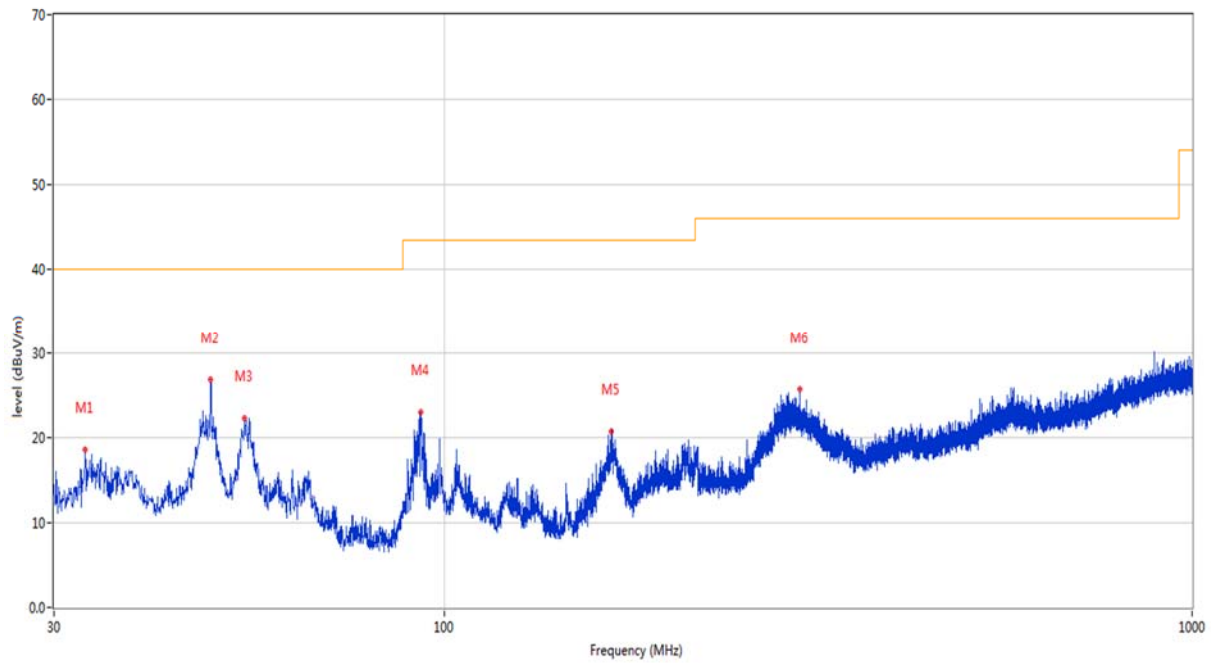
The USB Test Mode

A.1.3 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	33.492	24.33	-26.20	40.0	-15.67	Peak	268.40	100	Vertical	Pass
2	53.862	21.42	-22.96	40.0	-18.58	Peak	57.30	100	Vertical	Pass
3	94.941	22.81	-25.03	43.5	-20.69	Peak	1.00	200	Vertical	Pass
4	289.572	31.74	-21.86	46.0	-14.26	Peak	16.90	200	Vertical	Pass
5	593.958	36.57	-14.68	46.0	-9.43	Peak	229.10	100	Vertical	Pass
6	903.242	37.17	-9.52	46.0	-8.83	Peak	103.20	200	Vertical	Pass

A.1.4 Test Antenna Horizontal, 30 MHz – 1 GHz



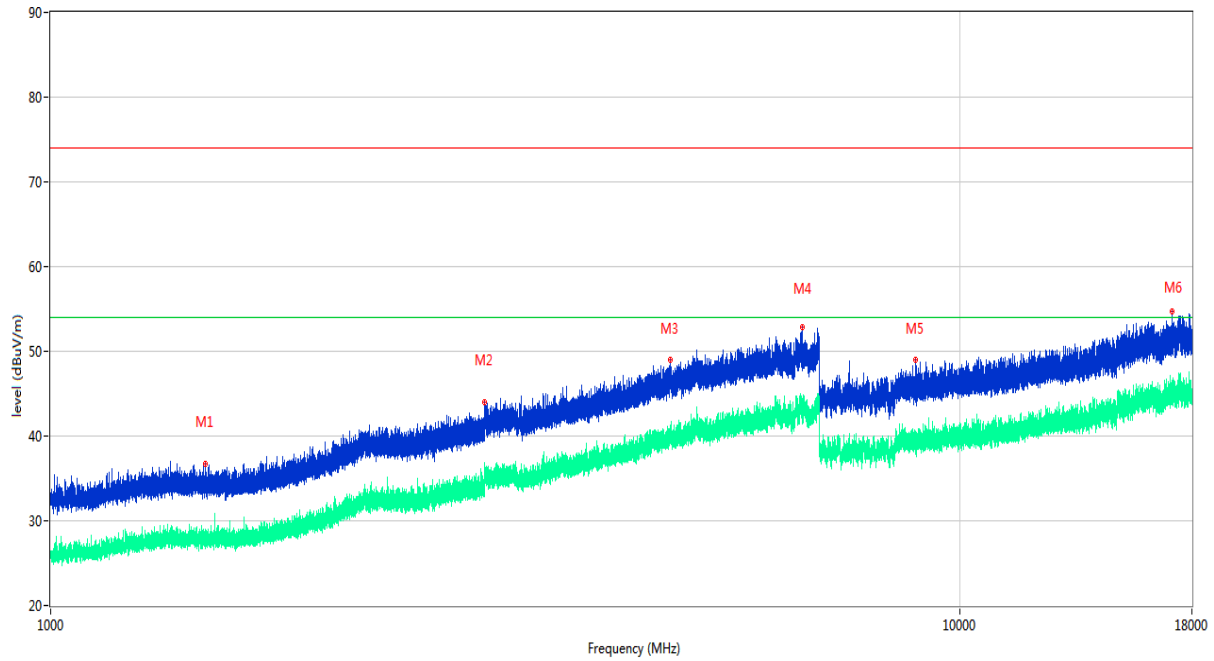
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.056	18.63	-26.36	40.0	-21.37	Peak	0.50	100	Vertical	Pass
2	48.624	26.91	-22.51	40.0	-13.09	Peak	360.00	200	Vertical	Pass
3	53.959	22.26	-22.97	40.0	-17.74	Peak	0.50	100	Vertical	Pass
4	92.905	23.00	-25.51	43.5	-20.50	Peak	278.50	100	Vertical	Pass
5	166.867	20.66	-26.91	43.5	-22.84	Peak	0.50	100	Vertical	Pass
6	298.302	25.70	-21.51	46.0	-20.30	Peak	19.40	200	Vertical	Pass

A.1.5 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.200	37.22	-17.59	74.0	-36.78	Peak	360.00	150	Vertical	Pass
1**	1510.200	27.19	-17.59	54.0	-26.81	AV	360.00	150	Vertical	Pass
2	2305.900	41.81	-12.76	74.0	-32.19	Peak	346.00	150	Vertical	Pass
2**	2305.900	33.11	-12.76	54.0	-20.89	AV	346.00	150	Vertical	Pass
3	4046.200	47.02	-4.82	74.0	-26.98	Peak	113.00	150	Vertical	Pass
3**	4046.200	37.15	-4.82	54.0	-16.85	AV	113.00	150	Vertical	Pass
4	6283.000	51.85	-0.22	74.0	-22.15	Peak	145.00	150	Vertical	Pass
4**	6283.000	43.58	-0.22	54.0	-10.42	AV	145.00	150	Vertical	Pass
5	11762.725	51.23	1.27	74.0	-22.77	Peak	197.00	150	Vertical	Pass
5**	11762.725	40.76	1.27	54.0	-13.24	AV	197.00	150	Vertical	Pass
6	17432.474	55.34	3.36	74.0	-18.66	Peak	335.00	150	Vertical	Pass
6**	17432.474	45.81	3.36	54.0	-8.19	AV	335.00	150	Vertical	Pass

A.1.6 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1479.400	36.67	-17.54	74.0	-37.33	Peak	57.00	150	Horizontal	Pass
1**	1479.400	27.63	-17.54	54.0	-26.37	AV	57.00	150	Horizontal	Pass
2	3000.800	43.94	-8.16	74.0	-30.06	Peak	0.00	150	Horizontal	Pass
2**	3000.800	35.13	-8.16	54.0	-18.87	AV	0.00	150	Horizontal	Pass
3	4799.200	49.05	-2.55	74.0	-24.95	Peak	23.00	150	Horizontal	Pass
3**	4799.200	40.73	-2.55	54.0	-13.27	AV	23.00	150	Horizontal	Pass
4	6710.400	52.87	-1.14	74.0	-21.13	Peak	0.00	150	Horizontal	Pass
4**	6710.400	41.71	-1.14	54.0	-12.29	AV	0.00	150	Horizontal	Pass
5	8938.613	48.96	-0.53	74.0	-25.04	Peak	324.00	150	Horizontal	Pass
5**	8938.613	39.40	-0.53	54.0	-14.60	AV	324.00	150	Horizontal	Pass
6	17135.849	54.65	2.20	74.0	-19.35	Peak	68.00	150	Horizontal	Pass
6**	17135.849	45.57	2.20	54.0	-8.43	AV	68.00	150	Horizontal	Pass

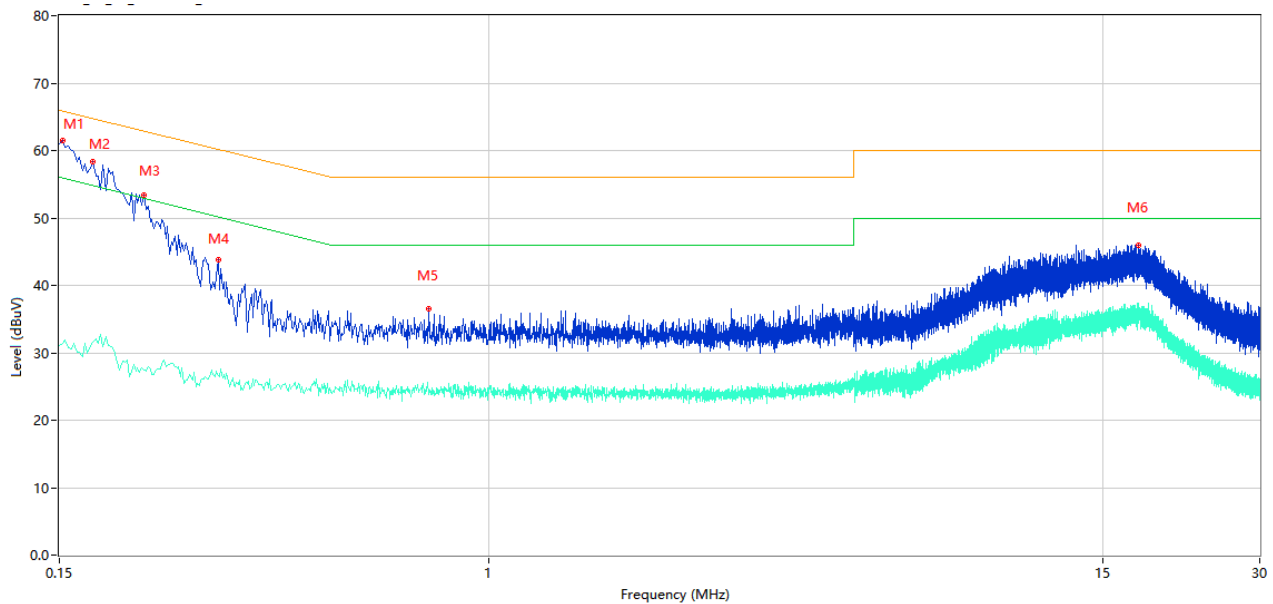
A.2 Conducted Emission

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.

Test Data and Plots

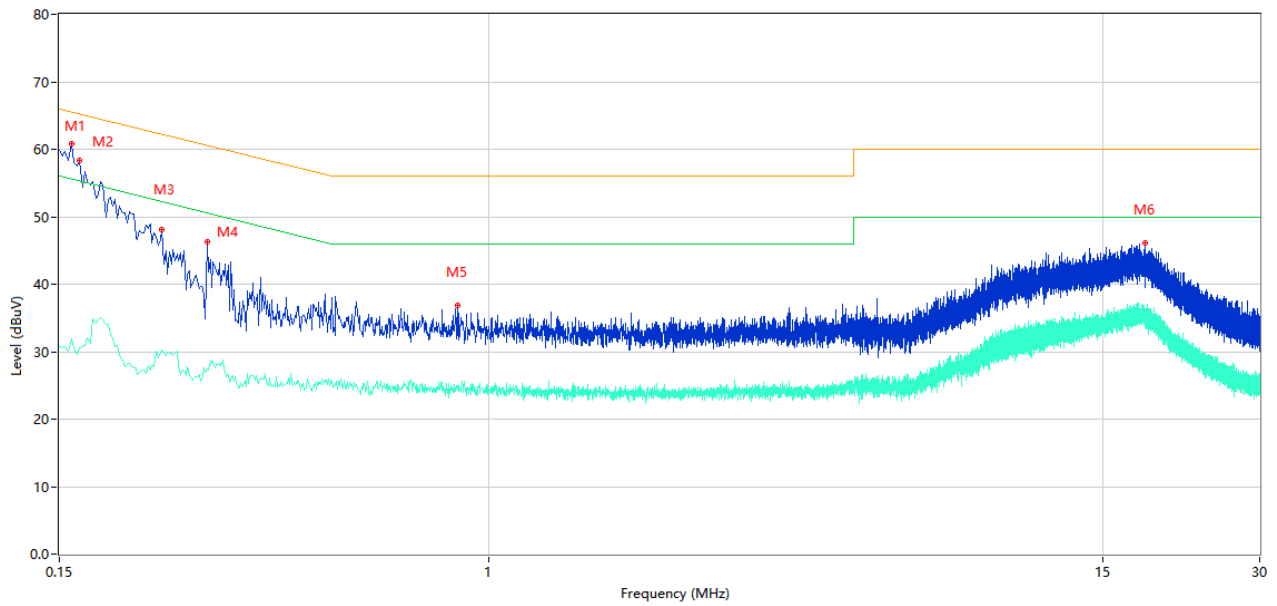
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	64.97	10.41	65.89	-0.92	Peak	L	N/A
1*	0.152	57.67	10.41	65.89	-8.22	QP	L	Pass
1**	0.152	31.44	10.41	55.89	-24.45	AV	L	Pass
2	0.174	58.34	10.39	64.77	-6.43	Peak	L	Pass
2**	0.174	31.53	10.39	54.77	-23.24	AV	L	Pass
3	0.218	53.40	10.37	62.89	-9.49	Peak	L	Pass
3**	0.218	27.40	10.37	52.89	-25.49	AV	L	Pass
4	0.302	43.74	10.33	60.19	-16.45	Peak	L	Pass
4**	0.302	26.66	10.33	50.19	-23.53	AV	L	Pass
5	0.764	36.54	10.26	56.00	-19.46	Peak	L	Pass
5**	0.764	23.79	10.26	46.00	-22.21	AV	L	Pass
6	17.604	45.89	10.48	60.00	-14.11	Peak	L	Pass
6**	17.604	35.32	10.48	50.00	-14.68	AV	L	Pass

A.2.2 N Phase

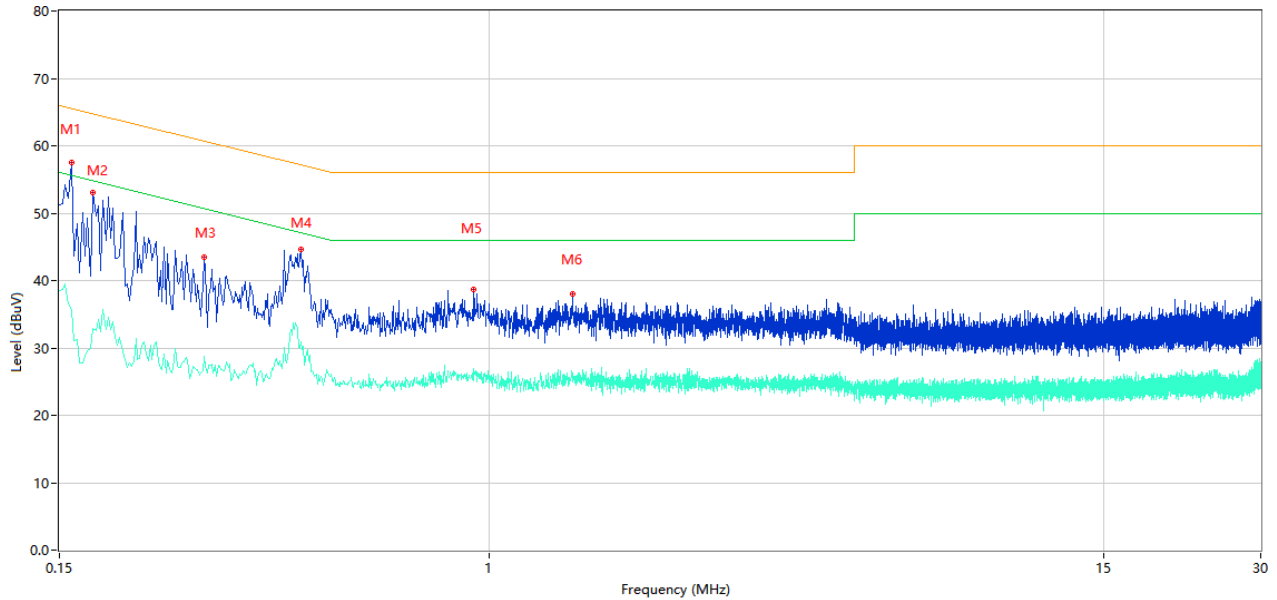


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	64.20	10.40	65.57	-1.37	Peak	N	N/A
1*	0.158	56.32	10.40	65.57	-9.25	QP	N	Pass
1**	0.158	31.91	10.40	55.57	-23.66	AV	N	Pass
2	0.164	58.40	10.40	65.26	-6.86	Peak	N	Pass
2**	0.164	30.60	10.40	55.26	-24.66	AV	N	Pass
3	0.236	48.16	10.35	62.24	-14.08	Peak	N	Pass
3**	0.236	30.32	10.35	52.24	-21.92	AV	N	Pass
4	0.288	46.27	10.34	60.58	-14.31	Peak	N	Pass
4**	0.288	27.40	10.34	50.58	-23.18	AV	N	Pass
5	0.872	36.85	10.25	56.00	-19.15	Peak	N	Pass
5**	0.872	24.50	10.25	46.00	-21.50	AV	N	Pass
6	18.074	46.17	10.49	60.00	-13.83	Peak	N	Pass
6**	18.074	36.34	10.49	50.00	-13.66	AV	N	Pass

Test Data and Plots

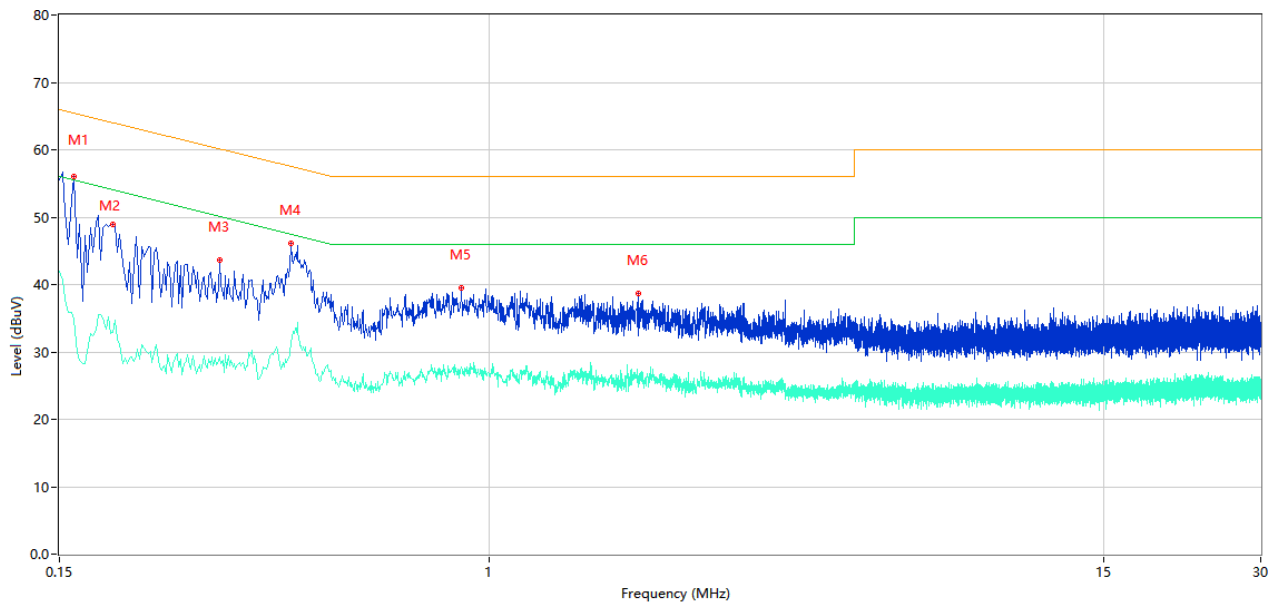
The USB Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	57.59	10.40	65.57	-7.98	Peak	L	Pass
1**	0.158	35.78	10.40	55.57	-19.79	AV	L	Pass
2	0.174	53.02	10.39	64.77	-11.75	Peak	L	Pass
2**	0.174	32.81	10.39	54.77	-21.96	AV	L	Pass
3	0.284	43.41	10.34	60.70	-17.29	Peak	L	Pass
3**	0.284	28.71	10.34	50.70	-21.99	AV	L	Pass
4	0.436	44.69	10.31	57.14	-12.45	Peak	L	Pass
4**	0.436	30.92	10.31	47.14	-16.22	AV	L	Pass
5	0.934	38.75	10.24	56.00	-17.25	Peak	L	Pass
5**	0.934	26.96	10.24	46.00	-19.04	AV	L	Pass
6	1.440	37.95	10.25	56.00	-18.05	Peak	L	Pass
6**	1.440	26.34	10.25	46.00	-19.66	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	56.10	10.40	65.46	-9.36	Peak	N	Pass
1**	0.160	34.91	10.40	55.46	-20.55	AV	N	Pass
2	0.190	48.93	10.38	64.04	-15.11	Peak	N	Pass
2**	0.190	32.84	10.38	54.04	-21.20	AV	N	Pass
3	0.304	43.58	10.33	60.13	-16.55	Peak	N	Pass
3**	0.304	29.27	10.33	50.13	-20.86	AV	N	Pass
4	0.416	46.07	10.31	57.53	-11.46	Peak	N	Pass
4**	0.416	31.54	10.31	47.53	-15.99	AV	N	Pass
5	0.884	39.45	10.25	56.00	-16.55	Peak	N	Pass
5**	0.884	27.63	10.25	46.00	-18.37	AV	N	Pass
6	1.932	38.66	10.25	56.00	-17.34	Peak	N	Pass
6**	1.932	25.96	10.25	46.00	-20.04	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2120002-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2120002-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2120002-AI.PDF”.

--END OF REPORT--