

TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Mobile Phone
Model Name: 22111317PG
Brand Name: POCO
FCC ID: 2AFZZ1317PG
Test Standard: 47 CFR Part 15 Subpart B
Test Date: Oct. 08, 2022 ~ Oct. 12, 2022
Date of Issue: Nov. 10, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Sijie Zheng

Checked by: Xia Long

Approved by: Liao Jianming
(Technical Director)

Sijie Zheng

Xia Long

Liao Jianming

Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 10, 2022</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	22111317PG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P2
Software Version	MIUI 13
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Please refer the document “BL-SZ2290498-AW EUT external photo.pdf”.

2.6 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8</p> <p>4G Network FDD LTE Band 1/2/3/4/5/7/8/20/28/66 TDD LTE Band 38/40/41</p> <p>CA Uplink (UL): CA_3C, CA_7C, CA_38C, CA_40C</p> <p>5G Network</p> <p>SA: NR n1/n3/n5/n7/n8/n20/n28/38/n40/n41/n77/n78</p> <p>NSA(EN-DC): DC_1A_n3A, DC_1A_n5A, DC_1A_n7A, DC_1A_n8A, DC_1A_n28A, DC_1A_n38A, DC_1A_n40A, DC_1A_n41A, DC_1A_n77A, DC_1A_n78A, DC_2A_n78A, DC_3A_n1A, DC_3A_n5A, DC_3A_n7A, DC_3A_n28A, DC_3A_n38A, DC_3A_n40A, DC_3A_n41A, DC_3A_n77A, DC_3A_n78A, DC_5A_n40A, DC_5A_n78A, DC_7A_n1A, DC_7A_n3A, DC_7A_n5A, DC_7A_n8A, DC_7A_n28A, DC_7A_n78A, DC_8A_n1A, DC_8A_n3A, DC_8A_n40A, DC_8A_n41A, DC_8A_n77A, DC_8A_n78A, DC_20A_n1A, DC_20A_n3A, DC_20A_n7A, DC_20A_n78A, DC_28A_n1A, DC_28A_n3A, DC_28A_n7A, DC_28A_n40A, DC_28A_n41A, DC_28A_n77A, DC_28A_n78A, DC_38A_n78A, DC_41A_n78A</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, NFC, FM receiver</p>
RAM & Storage	6G+128G, 8G+256G
IMEI	<p>S39: IMEI1#: 866051060046725; IMEI2#: 866051060046733</p> <p>S07: IMEI1#: 866051060055684; IMEI2#: 866051060055692</p> <p>S15: IMEI1#: 866051060055205; IMEI2#: 866051060055213</p>

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	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

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)	3.22 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.80 dB
Radiated emissions (30 MHz-1 GHz)-3m	4.76 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.88 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments, Test Date and Test Engineer

Test items	Voltage	Temperature	Relative Humidity	Ambient Pressure	Test Date	Test Engineer
Radiated Emission	AC 120V/60Hz DC 3.87V(battery)	23.5℃	46%	101kPa	Oct. 10, 2022	Zheng Chuanzheng
Conducted Emission	AC 240V/50Hz AC 120V/60Hz	23.5℃	46%		Oct. 12, 2022	Zheng Chuanzheng
		24.3℃	47%			Ye Guangqi

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	Agilent	N9038A	MY55330120	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	N.A	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V19.918		<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency Above 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	Agilent	N9038A	MY55330120	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40	101544	2022.01.04	2023.01.03	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Amplifier (0.8- 21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Amplifier (18-40GHz)	COM-MV	KA_LNA18- 40G-01	18050001	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	1917	2022.06.09	2025.06.08	<input checked="" type="checkbox"/>
Test Antenna- Horn	A-INFOMW	LB- 180400KF	J211060273	2021.07.02	2024.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	N.A	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V19.918		<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2022.06.01	2023.05.31	<input checked="" type="checkbox"/>
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2022.02.19	2025.02.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V19.918		<input checked="" type="checkbox"/>

4.3 Test Enclosure list

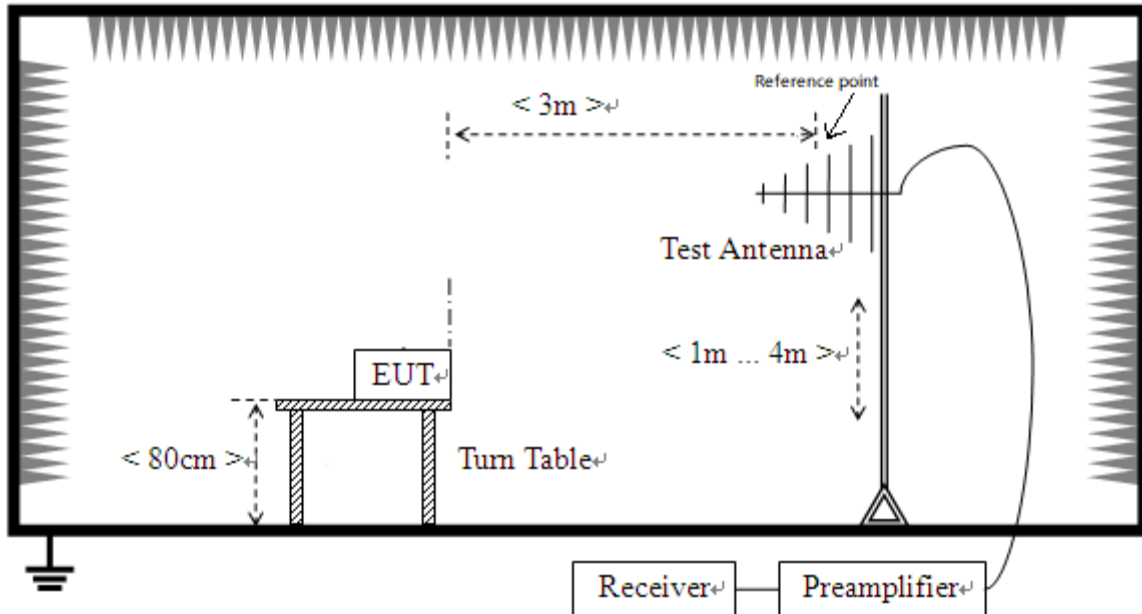
Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW200	121487	N/A	Cal. Due 2023.01.03	<input checked="" type="checkbox"/>
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2023.01.03	<input checked="" type="checkbox"/>
5G Wireless Test Platform	StarPoint	SP9500E	25103	N/A	Cal. Due 2023.03.28	<input checked="" type="checkbox"/>
Laptop	HONOR	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Laptop	Apple	A1465	N/A	N/A	N/A	<input checked="" type="checkbox"/>
TF Card	Kingston	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Headset	xiaomi	EM023	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Digital Headset	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The GSM 850 MHz RX Test Mode</u> GSM 850 MHz RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC02	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC03	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC04	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC05	<u>The N5 RX Test Mode</u> N5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC06	<u>The FM RX Test Mode</u> FM RX + EUT +Adapter + USB Cable + Battery + TF Card + Headset
TC07	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
TC08	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
TC09	<u>The USB transmission Test Mode</u> EUT + USB Cable + Battery + Laptop+ Headset + TF Card
TC10	<u>The Digital Headset Test Mode</u> EUT + Battery + Digital Headset +TF Card

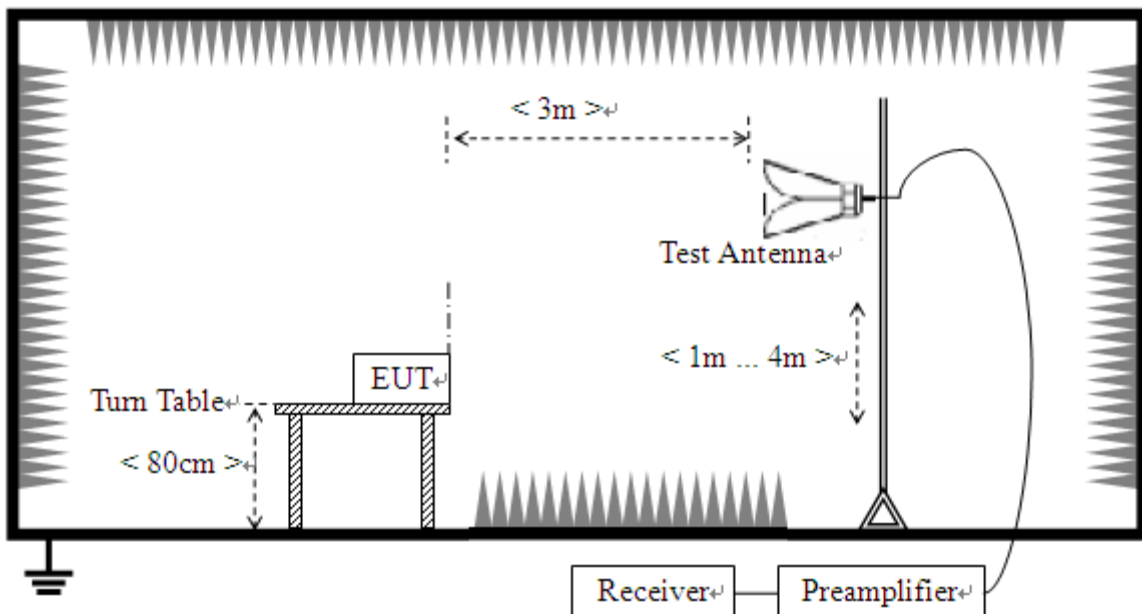
4.5 Test Setups

Test Setup 1



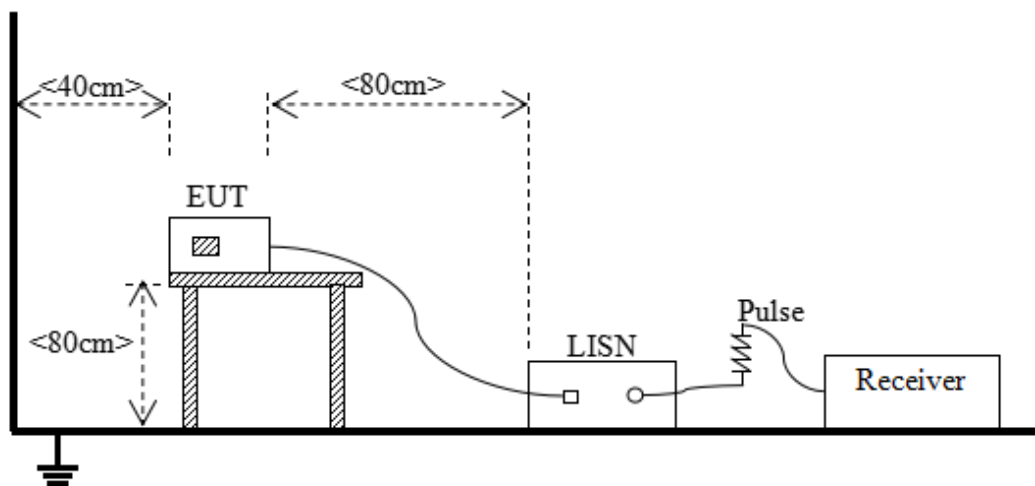
(For Radiated Emission Test (30 MHz-1 GHz))

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 Setup	Test Setup 1&2
	Test Configuration	TC01~TC10 ^{Note}
Conducted Emission, AC Ports	Test Setup	Test Setup 3
	Test Configuration	TC01~TC09 ^{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 ($\text{dB}\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)
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 ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log$ [Field Strength ($\mu\text{V/m}$)].
- 2) The lower limit shall apply at the transition frequency.

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.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak for $f < 1$ GHz, peak & RMS Average for $f \geq 1$ GHz

Trace = max hold

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V/m) + 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 (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)
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 transition frequency..
- 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 μ H 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.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW \geq RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dB μ V) = Reading (dB μ V) + Factor (dB)

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.

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.

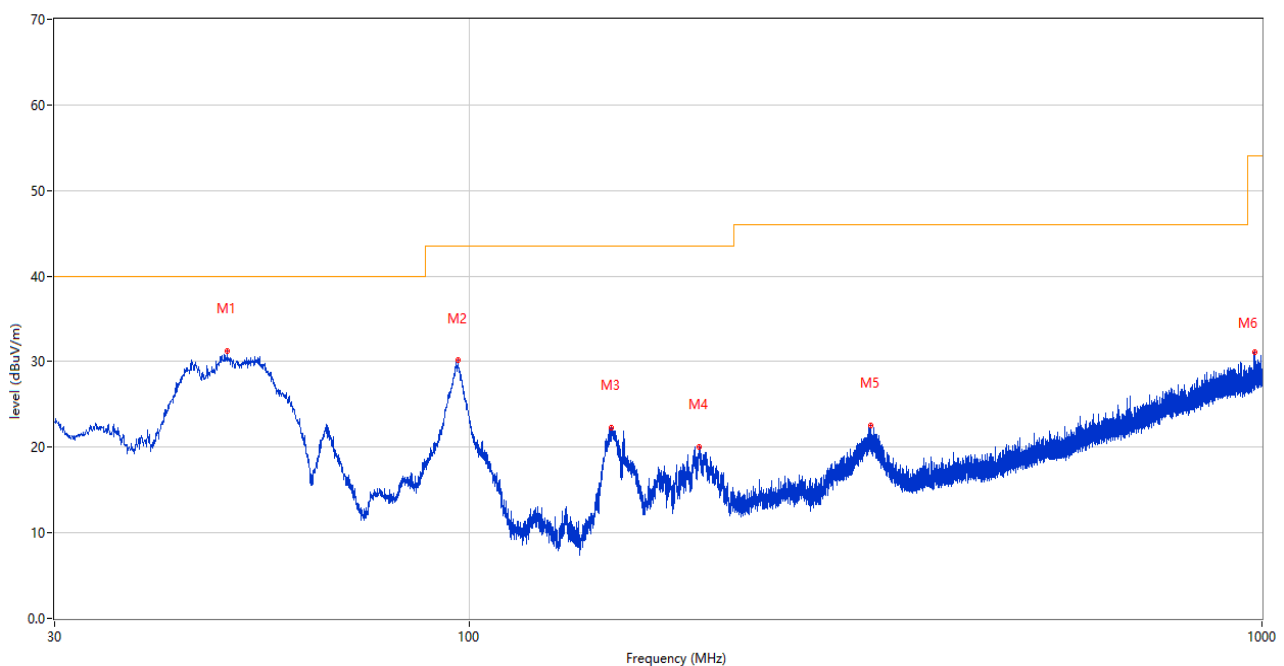
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

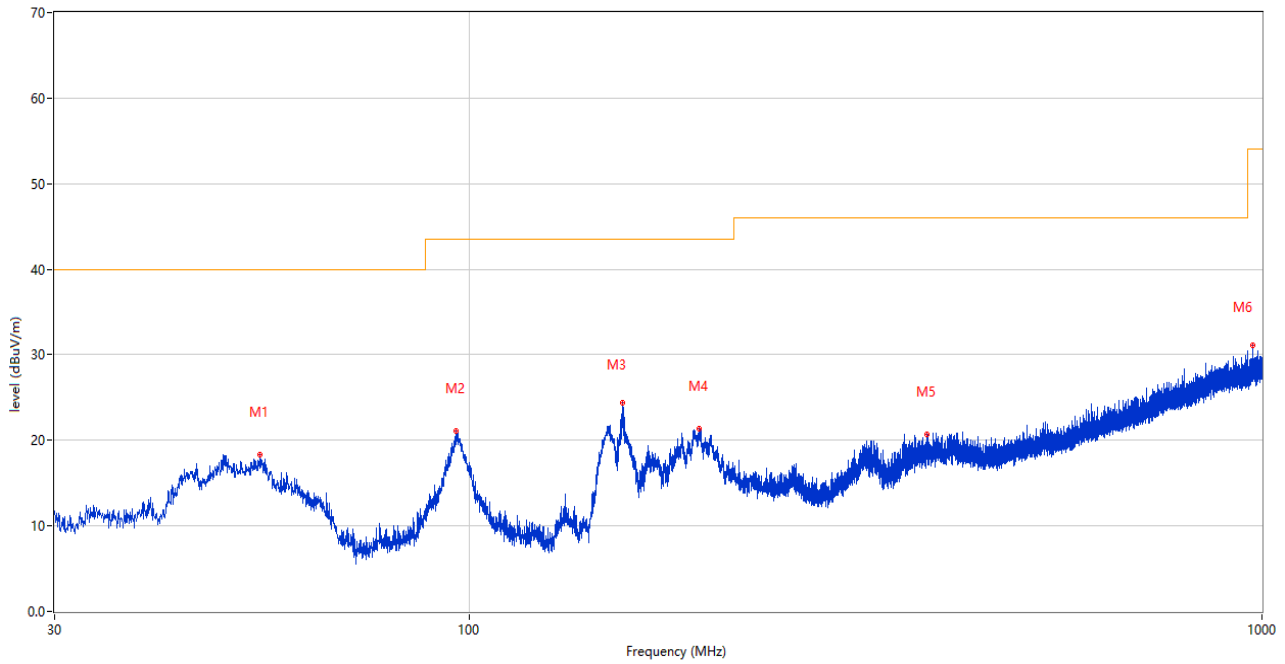
The Camera Test Mode

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



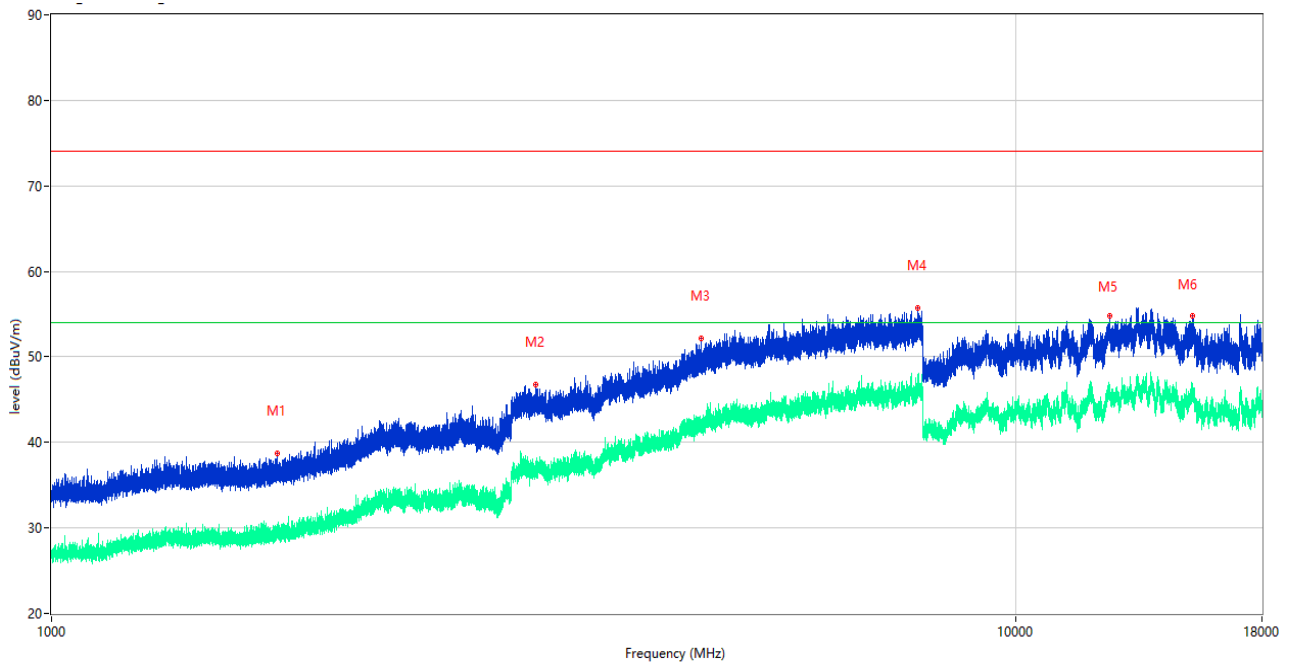
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.545	31.24	-25.53	40.0	-8.76	Peak	245.00	100	Vertical	Pass
2	96.882	30.12	-27.22	43.5	-13.38	Peak	317.00	100	Vertical	Pass
3	151.056	22.29	-30.10	43.5	-21.21	Peak	294.00	100	Vertical	Pass
4	195.288	20.09	-26.89	43.5	-23.41	Peak	308.00	100	Vertical	Pass
5	321.194	22.57	-23.11	46.0	-23.43	Peak	216.00	200	Vertical	Pass
6	979.775	31.11	-8.62	54.0	-22.89	Peak	202.00	200	Vertical	Pass

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



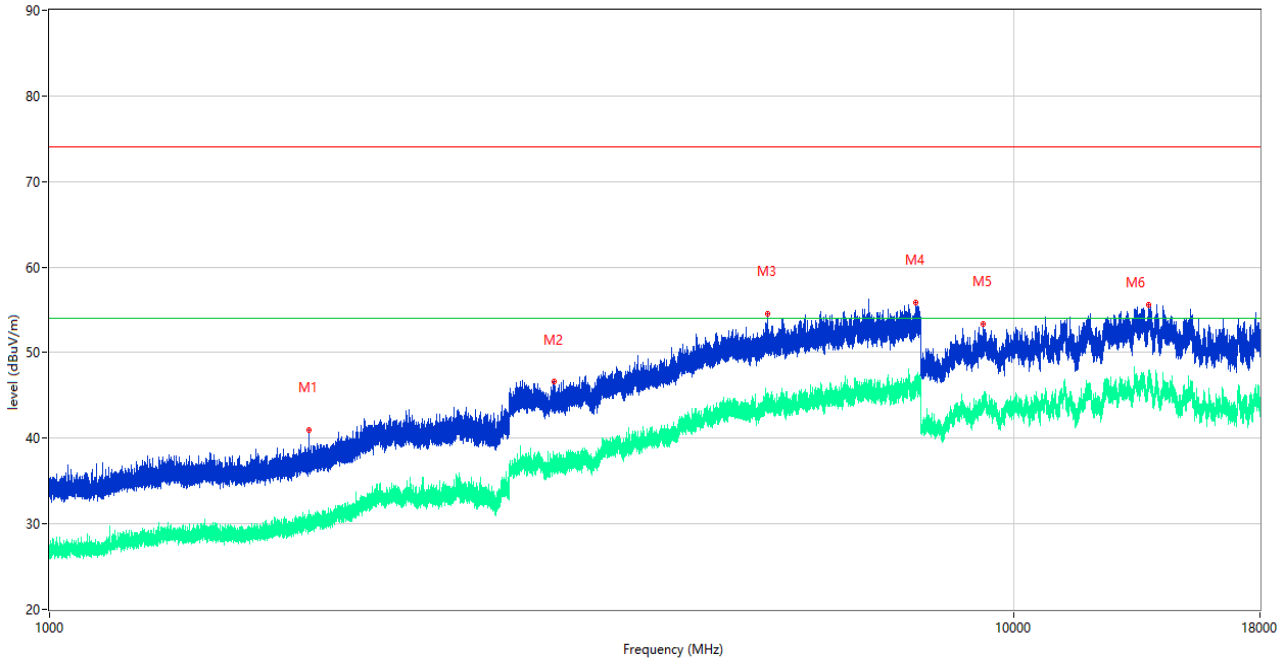
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.444	18.33	-25.59	40.0	-21.67	Peak	267.00	100	Horizontal	Pass
2	96.348	21.12	-27.31	43.5	-22.38	Peak	193.00	200	Horizontal	Pass
3	156.052	24.38	-29.77	43.5	-19.12	Peak	349.00	200	Horizontal	Pass
4	195.094	21.38	-26.86	43.5	-22.12	Peak	252.00	200	Horizontal	Pass
5	378.230	20.65	-21.55	46.0	-25.35	Peak	28.00	100	Horizontal	Pass
6	972.500	31.17	-8.90	54.0	-22.83	Peak	74.00	200	Horizontal	Pass

A.1.3 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	1712.500	38.77	-16.46	74.0	-35.23	Peak	234.00	100	Vertical	Pass
1**	1712.500	29.57	-16.46	54.0	-24.43	AV	234.00	100	Vertical	Pass
2	3181.500	46.71	-4.93	74.0	-27.29	Peak	31.00	100	Vertical	Pass
2**	3181.500	36.82	-4.93	54.0	-17.18	AV	31.00	100	Vertical	Pass
3	4714.000	52.22	-0.84	74.0	-21.78	Peak	174.00	100	Vertical	Pass
3**	4714.000	41.24	-0.84	54.0	-12.76	AV	174.00	100	Vertical	Pass
4	7921.250	55.67	3.01	74.0	-18.33	Peak	259.00	100	Vertical	Pass
4**	7921.250	46.69	3.01	54.0	-7.31	AV	259.00	100	Vertical	Pass
5	12515.000	54.82	2.88	74.0	-19.18	Peak	119.00	100	Vertical	Pass
5**	12515.000	45.22	2.88	54.0	-8.78	AV	119.00	100	Vertical	Pass
6	15245.000	54.86	3.37	74.0	-19.14	Peak	84.00	100	Vertical	Pass
6**	15245.000	45.28	3.37	54.0	-8.72	AV	84.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz

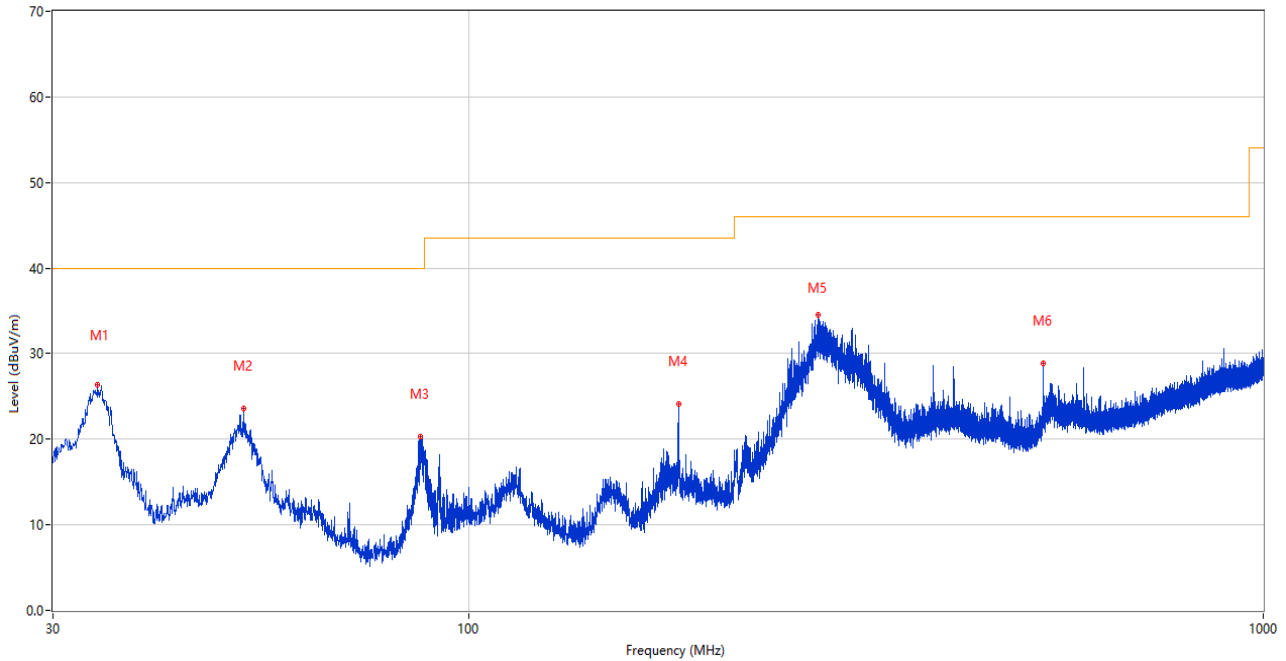


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1859.100	40.92	-15.62	74.0	-33.08	Peak	140.00	100	Horizontal	Pass
1**	1859.100	29.75	-15.62	54.0	-24.25	AV	140.00	100	Horizontal	Pass
2	3336.250	46.57	-5.70	74.0	-27.43	Peak	52.00	100	Horizontal	Pass
2**	3336.250	36.28	-5.70	54.0	-17.72	AV	52.00	100	Horizontal	Pass
3	5554.250	54.52	0.74	74.0	-19.48	Peak	244.00	100	Horizontal	Pass
3**	5554.250	44.24	0.74	54.0	-9.76	AV	244.00	100	Horizontal	Pass
4	7917.500	55.88	2.88	74.0	-18.12	Peak	207.00	100	Horizontal	Pass
4**	7917.500	46.01	2.88	54.0	-7.99	AV	207.00	100	Horizontal	Pass
5	9295.500	53.31	2.13	74.0	-20.69	Peak	171.00	100	Horizontal	Pass
5**	9295.500	44.00	2.13	54.0	-10.00	AV	171.00	100	Horizontal	Pass
6	13806.000	55.60	5.74	74.0	-18.40	Peak	329.00	100	Horizontal	Pass
6**	13806.000	47.42	5.74	54.0	-6.58	AV	329.00	100	Horizontal	Pass

Test Data and Plots

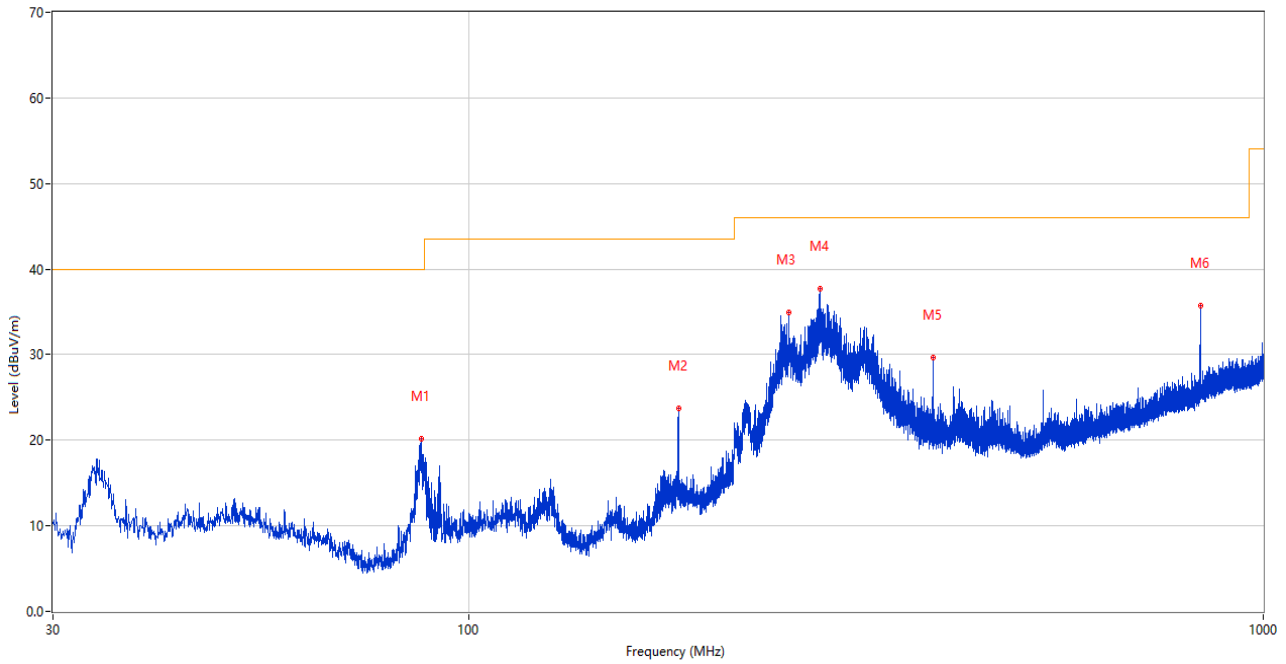
The USB transmission Test Mode

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



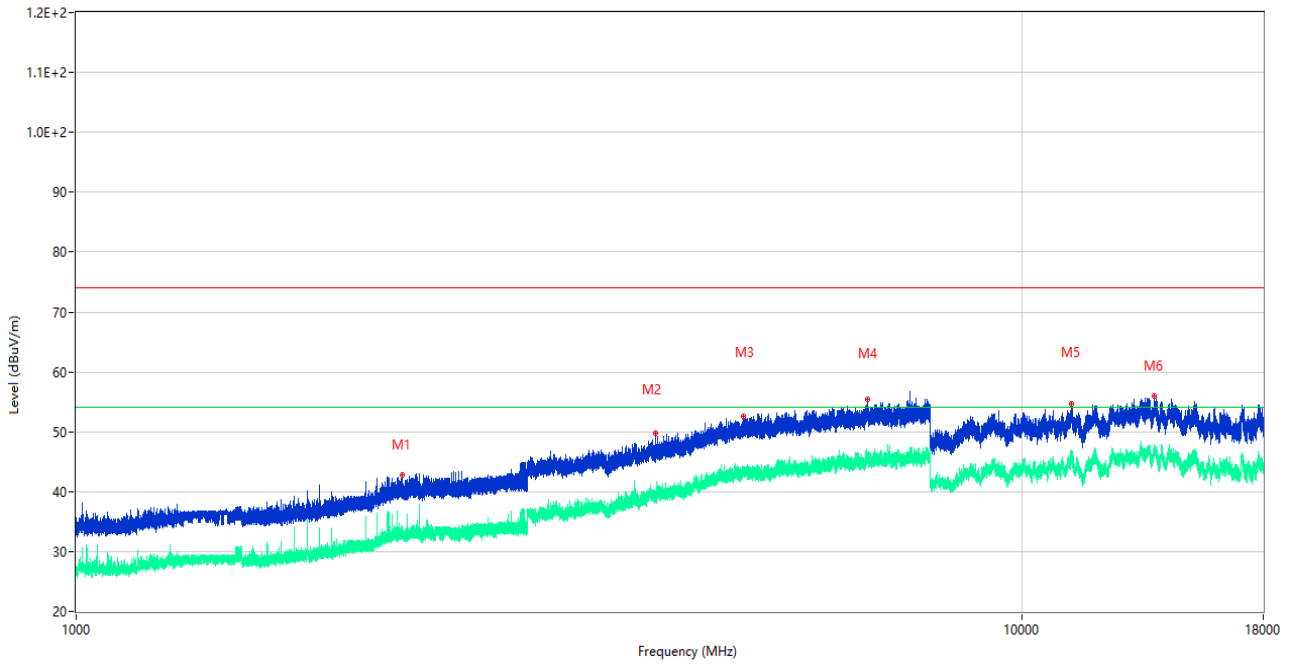
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.123	26.42	-28.75	40.0	13.58	Peak	208.00	100	Vertical	Pass
2	52.116	23.59	-25.44	40.0	16.41	Peak	56.00	100	Vertical	Pass
3	86.939	20.28	-29.42	40.0	19.72	Peak	49.00	100	Vertical	Pass
4	183.794	24.14	-28.13	43.5	19.36	Peak	182.00	100	Vertical	Pass
5	275.701	34.55	-24.42	46.0	11.45	Peak	19.00	200	Vertical	Pass
6	527.998	28.89	-17.95	46.0	17.11	Peak	346.00	100	Vertical	Pass

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



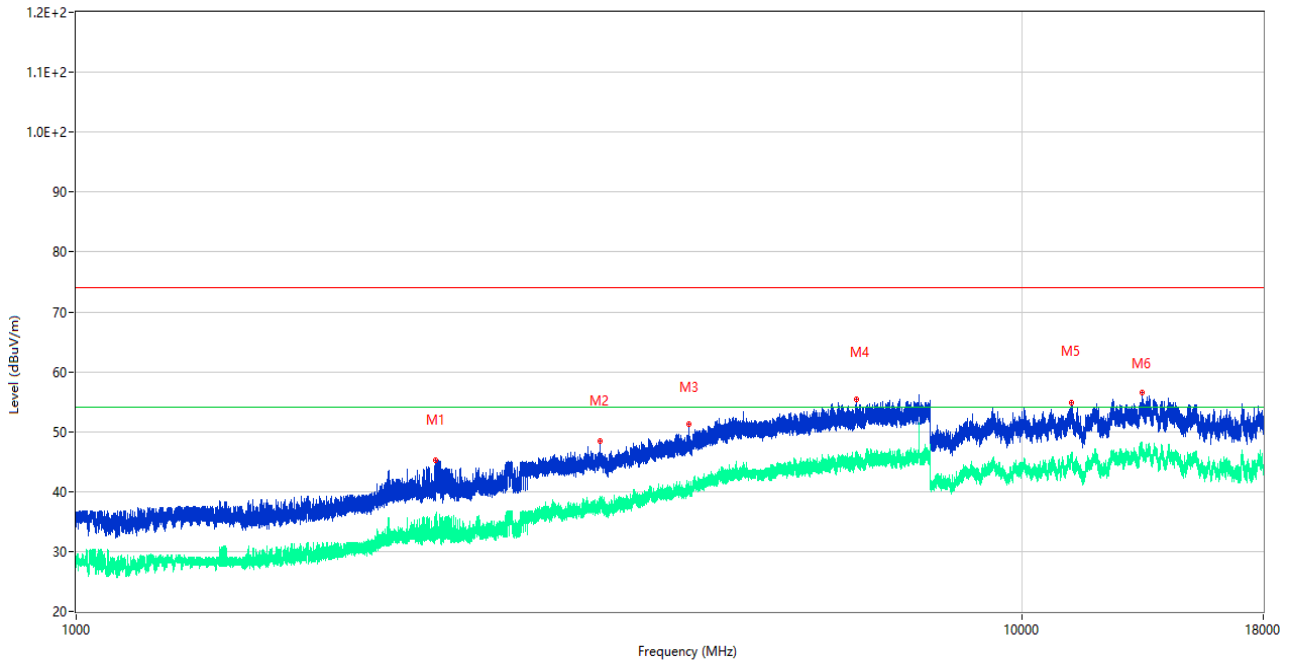
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	87.230	20.18	-29.34	40.0	19.82	Peak	227.00	200	Horizontal	Pass
2	183.696	23.71	-28.12	43.5	19.79	Peak	230.00	100	Horizontal	Pass
3	253.197	34.98	-24.82	46.0	11.02	Peak	135.00	100	Horizontal	Pass
4	277.010	37.72	-24.34	46.0	8.28	Peak	103.00	100	Horizontal	Pass
5	384.002	29.61	-21.41	46.0	16.39	Peak	100.00	100	Horizontal	Pass
6	833.548	35.70	-11.15	46.0	10.30	Peak	202.00	100	Horizontal	Pass

A.1.7 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	2211.800	42.83	-12.05	74.0	31.17	Peak	76.00	100	Vertical	Pass
1**	2211.800	32.12	-12.05	54.0	21.88	AV	76.00	100	Vertical	Pass
2	4099.500	49.71	-2.72	74.0	24.29	Peak	273.00	100	Vertical	Pass
2**	4099.500	39.14	-2.72	54.0	14.86	AV	273.00	100	Vertical	Pass
3	5080.500	52.49	0.42	74.0	21.51	Peak	352.00	100	Vertical	Pass
3**	5080.500	43.00	0.42	54.0	11.00	AV	352.00	100	Vertical	Pass
4	6864.000	55.35	1.89	74.0	18.65	Peak	172.00	100	Vertical	Pass
4**	6864.000	46.27	1.89	54.0	7.73	AV	172.00	100	Vertical	Pass
5	11270.500	54.64	2.04	74.0	19.36	Peak	161.00	100	Vertical	Pass
5**	11270.500	45.18	2.04	54.0	8.82	AV	161.00	100	Vertical	Pass
6	13804.000	55.99	5.76	74.0	18.01	Peak	360.00	100	Vertical	Pass
6**	13804.000	47.28	5.76	54.0	6.72	AV	360.00	100	Vertical	Pass

A.1.8 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	2399.400	45.17	-12.05	74.0	28.83	Peak	54.00	100	Horizontal	Pass
1**	2399.400	36.41	-12.05	54.0	17.59	AV	54.00	100	Horizontal	Pass
2	3583.500	48.40	-5.28	74.0	25.60	Peak	123.00	100	Horizontal	Pass
2**	3583.500	37.90	-5.28	54.0	16.10	AV	123.00	100	Horizontal	Pass
3	4447.750	51.19	-2.18	74.0	22.81	Peak	262.00	100	Horizontal	Pass
3**	4447.750	40.27	-2.18	54.0	13.73	AV	262.00	100	Horizontal	Pass
4	6679.750	55.47	1.55	74.0	18.53	Peak	85.00	100	Horizontal	Pass
4**	6679.750	45.68	1.55	54.0	8.32	AV	85.00	100	Horizontal	Pass
5	11273.000	54.87	2.07	74.0	19.13	Peak	328.00	100	Horizontal	Pass
5**	11273.000	45.34	2.07	54.0	8.66	AV	328.00	100	Horizontal	Pass
6	13400.001	56.51	4.90	74.0	17.49	Peak	12.00	100	Horizontal	Pass
6**	13400.001	47.11	4.90	54.0	6.89	AV	12.00	100	Horizontal	Pass

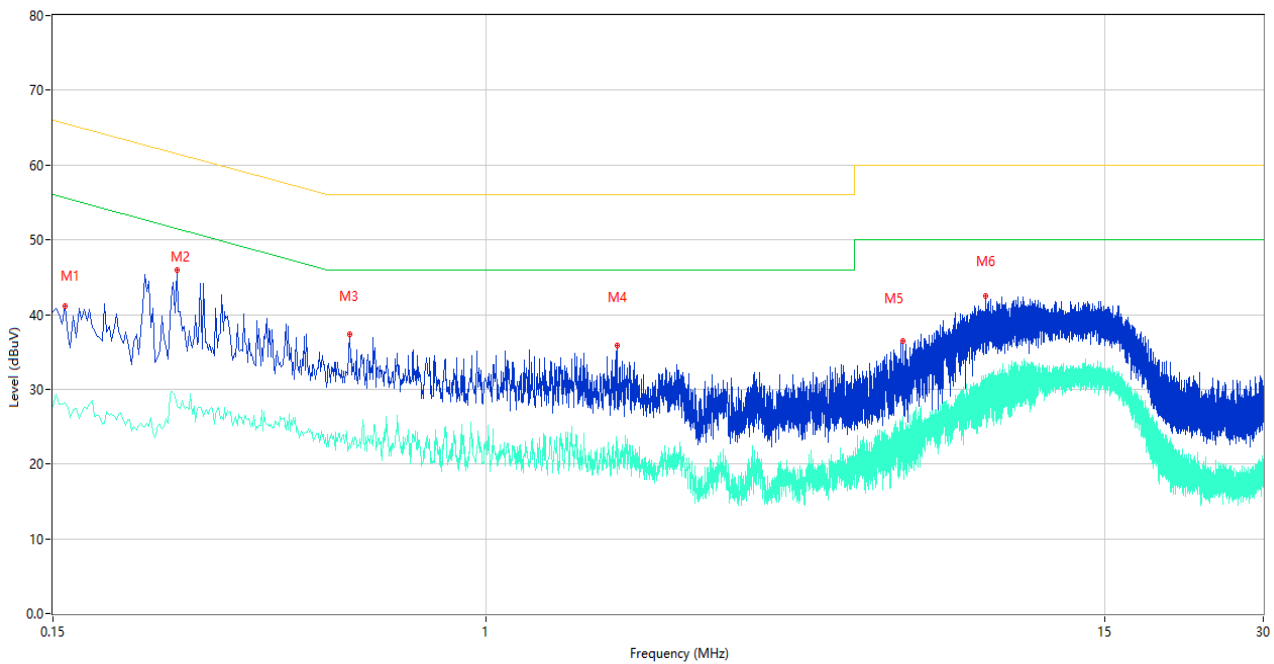
A.2 Conducted Emission

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.

Test Data and Plots

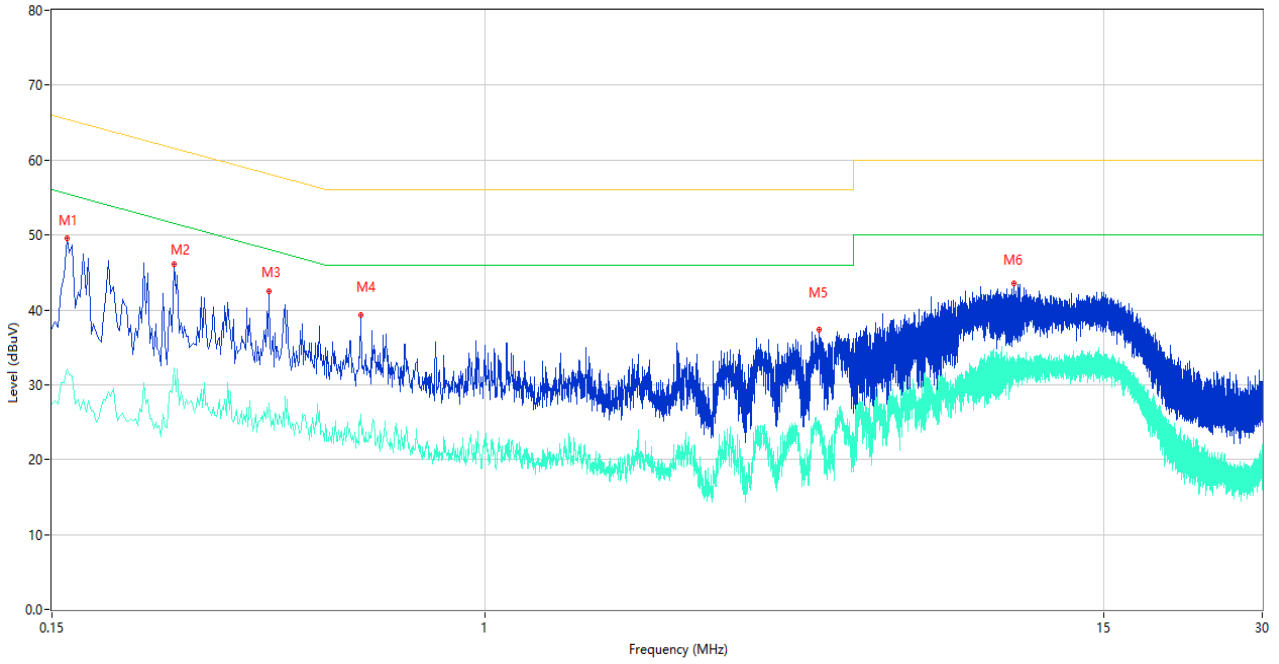
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	41.11	10.18	65.57	-24.46	Peak	L	Pass
1**	0.158	28.19	10.18	55.57	-27.38	AV	L	Pass
2	0.258	45.92	10.07	61.50	-15.58	Peak	L	Pass
2**	0.258	27.89	10.07	51.50	-23.61	AV	L	Pass
3	0.550	37.42	10.41	56.00	-18.58	Peak	L	Pass
3**	0.550	22.81	10.41	46.00	-23.19	AV	L	Pass
4	1.770	35.90	10.27	56.00	-20.10	Peak	L	Pass
4**	1.770	22.99	10.27	46.00	-23.01	AV	L	Pass
5	6.208	36.40	10.38	60.00	-23.60	Peak	L	Pass
5**	6.208	26.03	10.38	50.00	-23.97	AV	L	Pass
6	8.892	42.53	10.62	60.00	-17.47	Peak	L	Pass
6**	8.892	31.66	10.62	50.00	-18.34	AV	L	Pass

A.2.2 N Phase

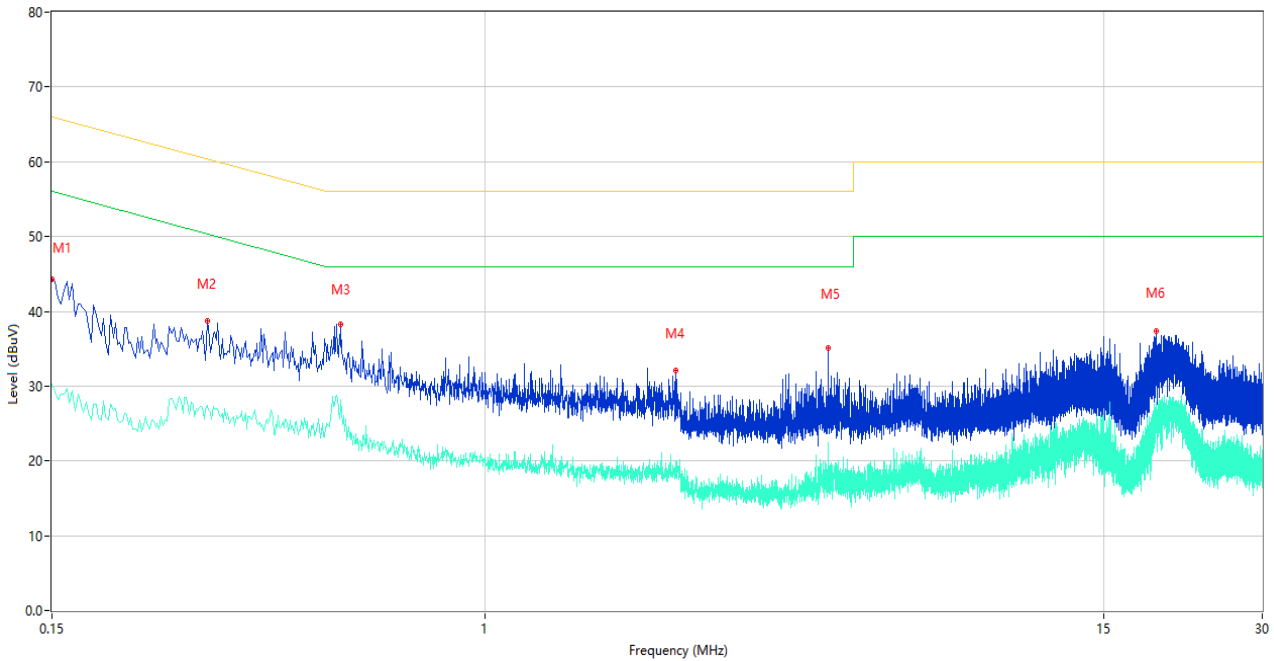


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	49.54	10.17	65.46	-15.92	Peak	N	Pass
1**	0.160	32.15	10.17	55.46	-23.31	AV	N	Pass
2	0.256	46.13	10.07	61.56	-15.43	Peak	N	Pass
2**	0.256	32.24	10.07	51.56	-19.32	AV	N	Pass
3	0.388	42.45	10.46	58.11	-15.66	Peak	N	Pass
3**	0.388	27.62	10.46	48.11	-20.49	AV	N	Pass
4	0.580	39.35	10.53	56.00	-16.65	Peak	N	Pass
4**	0.580	26.11	10.53	46.00	-19.89	AV	N	Pass
5	4.314	37.31	10.27	56.00	-18.69	Peak	N	Pass
5**	4.314	23.66	10.27	46.00	-22.34	AV	N	Pass
6	10.138	43.48	10.50	60.00	-16.52	Peak	N	Pass
6**	10.138	32.87	10.50	50.00	-17.13	AV	N	Pass

Test Data and Plots

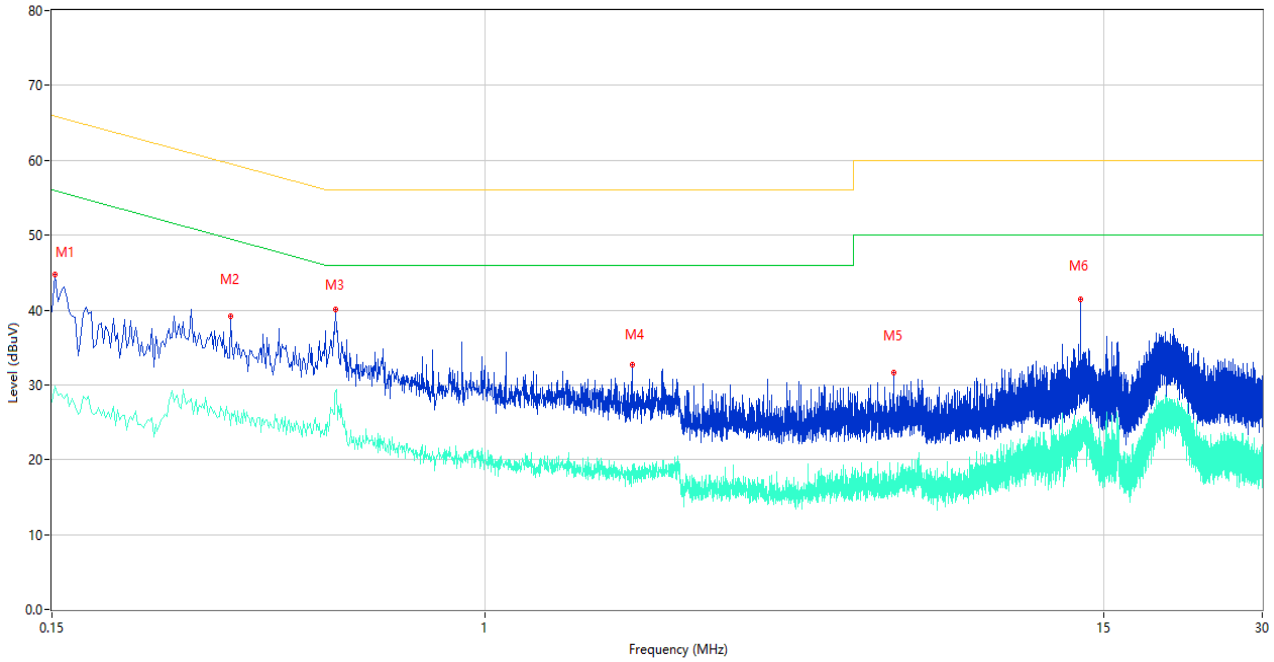
The USB transmission Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	44.27	10.19	66.00	-21.73	Peak	L	Pass
1**	0.150	30.34	10.19	56.00	-25.66	AV	L	Pass
2	0.296	38.76	10.05	60.35	-21.59	Peak	L	Pass
2**	0.296	27.35	10.05	50.35	-23.00	AV	L	Pass
3	0.532	38.34	10.36	56.00	-17.66	Peak	L	Pass
3**	0.532	28.13	10.36	46.00	-17.87	AV	L	Pass
4	2.306	32.04	10.40	56.00	-23.96	Peak	L	Pass
4**	2.306	20.06	10.40	46.00	-25.94	AV	L	Pass
5	4.484	35.16	10.12	56.00	-20.84	Peak	L	Pass
5**	4.484	20.07	10.12	46.00	-25.93	AV	L	Pass
6	18.860	37.37	10.79	60.00	-22.63	Peak	L	Pass
6**	18.860	26.72	10.79	50.00	-23.28	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	44.70	10.19	65.89	-21.19	Peak	N	Pass
1**	0.152	29.88	10.19	55.89	-26.01	AV	N	Pass
2	0.328	39.14	9.99	59.50	-20.36	Peak	N	Pass
2**	0.328	24.54	9.99	49.50	-24.96	AV	N	Pass
3	0.520	40.13	10.33	56.00	-15.87	Peak	N	Pass
3**	0.520	29.22	10.33	46.00	-16.78	AV	N	Pass
4	1.900	32.67	10.12	56.00	-23.33	Peak	N	Pass
4**	1.900	18.89	10.12	46.00	-27.11	AV	N	Pass
5	5.988	31.61	10.24	60.00	-28.39	Peak	N	Pass
5**	5.988	16.13	10.24	50.00	-33.87	AV	N	Pass
6	13.546	41.48	10.18	60.00	-18.52	Peak	N	Pass
6**	13.546	22.93	10.18	50.00	-27.07	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2290498-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2290498-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2290498-AI.PDF”.

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--END OF REPORT--