

TEST REPORT

Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Type: Mobile Phone
Model Name: RMX3785
Brand Name: realme
FCC ID: 2AUYFRMX3785
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 30, 2023
Test Date: Jul. 07, 2023 - Jul. 18, 2023
Date of Issue: Jul. 21, 2023

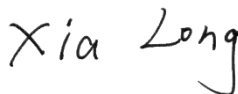
ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi



Checked by: Xia Long



Approved by: Liao Jianming
(Technical Director)



Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 21, 2023</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	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

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3785
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 4.0
Dimensions (Approx.)	165.66*75.98*7.94mm
Weight (Approx.)	189.2 g
EUT ID	S02, S05, S06
IMEI Number	S02: IMEI1: 860541060020635, IMEI2: 860541060020627 S05: IMEI1: 860541060020650, IMEI2: 860541060020643 S06: IMEI1: 860541060020478, IMEI2: 860541060020460

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacity	Rated Capacity: 4880mAh/18.88Wh Typical Capacity: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limit Charge Voltage	4.45V
	Manufacturer	COSMX
Ancillary Equipment 2	Battery 2	
	Brand Name	SUPERVOOC
	Model No.	BLP923
	Serial No.	N/A
	Capacity	Rated Capacity: 4880mAh/18.88Wh Typical Capacity: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limit Charge Voltage	4.45V
	Manufacturer	NVT
Ancillary Equipment 3	Adapter 1	
	Brand Name	SUPERVOOC
	Model No.	VCB3JFUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz 1.2A
	Rated Output	5.0 Vdc 2A, 5.0-11.0 Vdc 3A(Max)
	Manufacturer	Chenyang
Ancillary Equipment 4	Adapter 2	
	Brand Name	SUPERVOOC
	Model No.	VCB3JFUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz 1.2A
	Rated Output	5.0 Vdc 2A, 5.0-11.0 Vdc 3A(Max)
	Manufacturer	Huntkey
Ancillary Equipment 5	Adapter 3	
	Brand Name	SUPERVOOC
	Model No.	VCB3HDUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz 1.2A
	Rated Output	5.0 Vdc 2A, 5.0-11.0 Vdc 3A(Max)
	Manufacturer	Golden lake
Ancillary Equipment 6	Adapter 4	
	Brand Name	SUPERVOOC

	Model No.	VCB3HDUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz 1.2A
	Rated Output	5.0 Vdc 2A, 5.0-11.0 Vdc 3A(Max)
	Manufacturer	Golden lake
Ancillary Equipment 7	USB Cable	
	Model No.	DL129
	Length (Approx.)	1m
<p>Note 1: Letter in () means plug type.</p> <p>Note 2: All adapters are tested, only the worst data of VCB3JFUH (Chenyang) shown in this report.</p> <p>Note 3: All batteries are tested, only the worst data of BLP923 (COSMX) Limited.) shown in this report.</p>		

2.6 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE 850/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5</p> <p>4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41</p> <p>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C</p> <p>5G Network</p> <p>SA: NR n5/n7/n38/n41/n66</p> <p>NSA(EN-DC): DC_2A_n7A, DC_2A_n38A, DC_2A_n41A, DC_2A_n66A, DC_4A_n7A, DC_4A_n38A, DC_5A_n7A, DC_5A_n38A, DC_5A_n66A, DC_7A_n66A, DC_26A_n41A, DC_41A_n41A, DC_66A_n5A, DC_66A_n7A, DC_66A_n38A, DC_66A_n41A</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40</p> <p>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, NFC</p>
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The requirement for the following technical information of the EUT was tested in this report:

The highest internal frequency of EUT	5.8GHz
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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)	23.4℃	54%	101kPa	Jul. 07, 2023	Gu Shuaizhen
	Jul. 18, 2023					
Conducted Emission	AC 230V/50Hz AC 120V/60Hz DC 3.87V(battery)	23.9℃	59%		Jul. 14, 2023	Tian Hengzhao

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	Keysight	N9038A	MY55330120	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.12.07	2023.12.06	<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	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		<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	Keysight	N9038A	MY55330120	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		<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	2023.05.16	2024.05.15	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2022.11.11	2023.11.10	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	<input 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		V22.930		<input checked="" type="checkbox"/>

4.3 Test Enclosure list

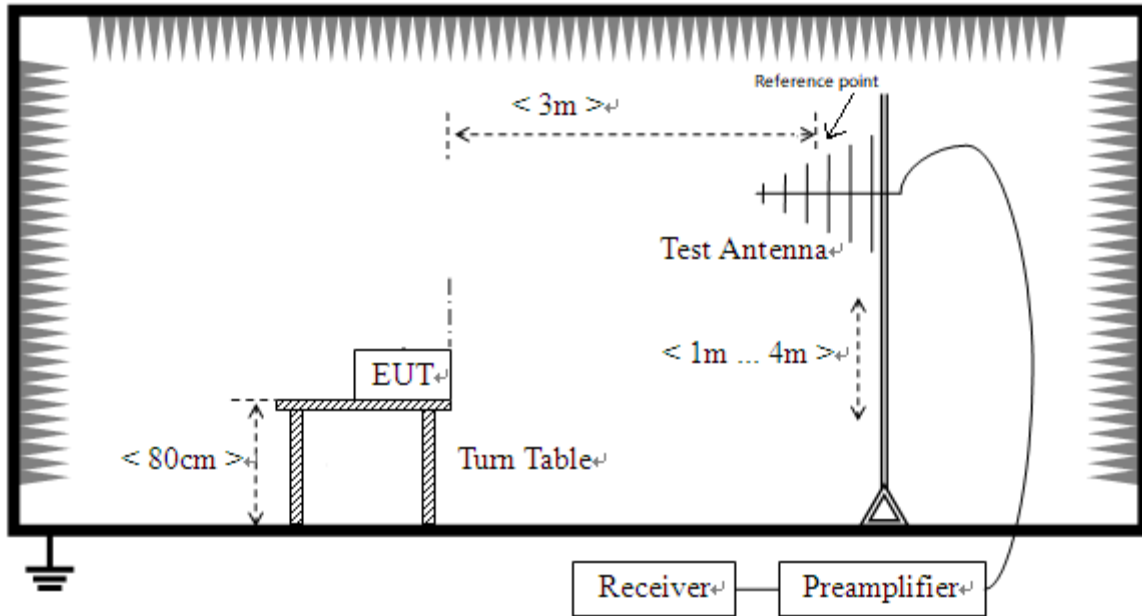
Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2023.12.27	<input checked="" type="checkbox"/>
Laptop	Lenovo	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Data connector	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB disk	Sandisk	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
TC02	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC03	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery
TC04	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery
TC05	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT +Adapter + USB Cable + Battery
TC06	<u>The FDD LTE Band 13 RX Test Mode</u> LTE Band 13 RX + EUT +Adapter + USB Cable + Battery
TC07	<u>The FDD LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT +Adapter + USB Cable + Battery
TC08	<u>The FDD LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT +Adapter + USB Cable + Battery
TC09	<u>The n5 Test Mode</u> n5 RX + EUT + Adapter + USB Cable + Battery
TC10	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
TC11	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery
TC12	<u>The Data transmission Test Mode</u> EUT + USB Cable + Battery + Laptop
TC13	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk
TC14	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery

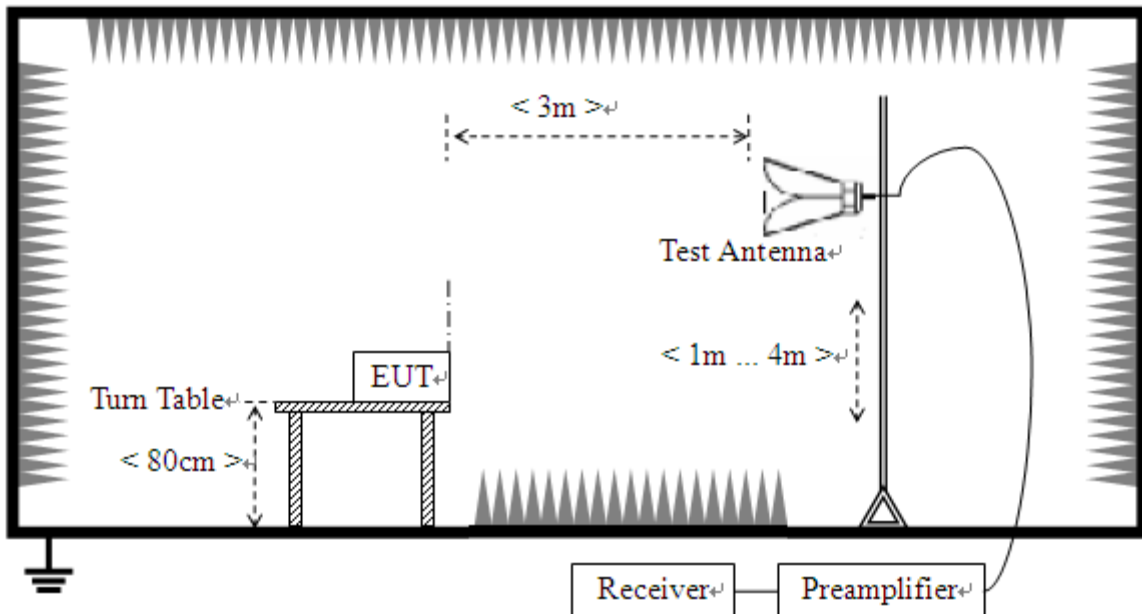
4.5 Test Setups

Test Setup 1



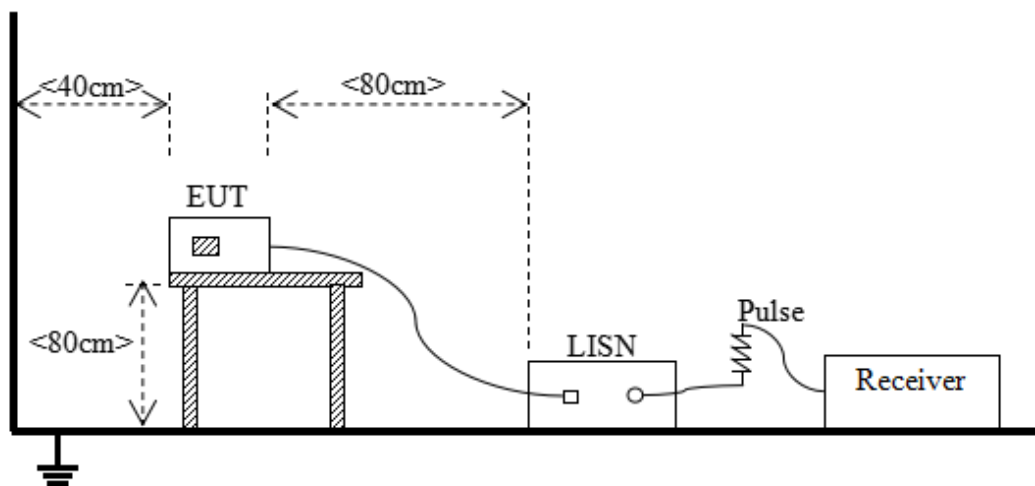
(For Radiated Emission Test (30 MHz-1 GHz))

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~TC14 ^{Note}
Conducted Emission, AC Ports	Test Setup	Test Setup 3
	Test Configuration	TC01~TC14 ^{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) 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.

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 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 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.

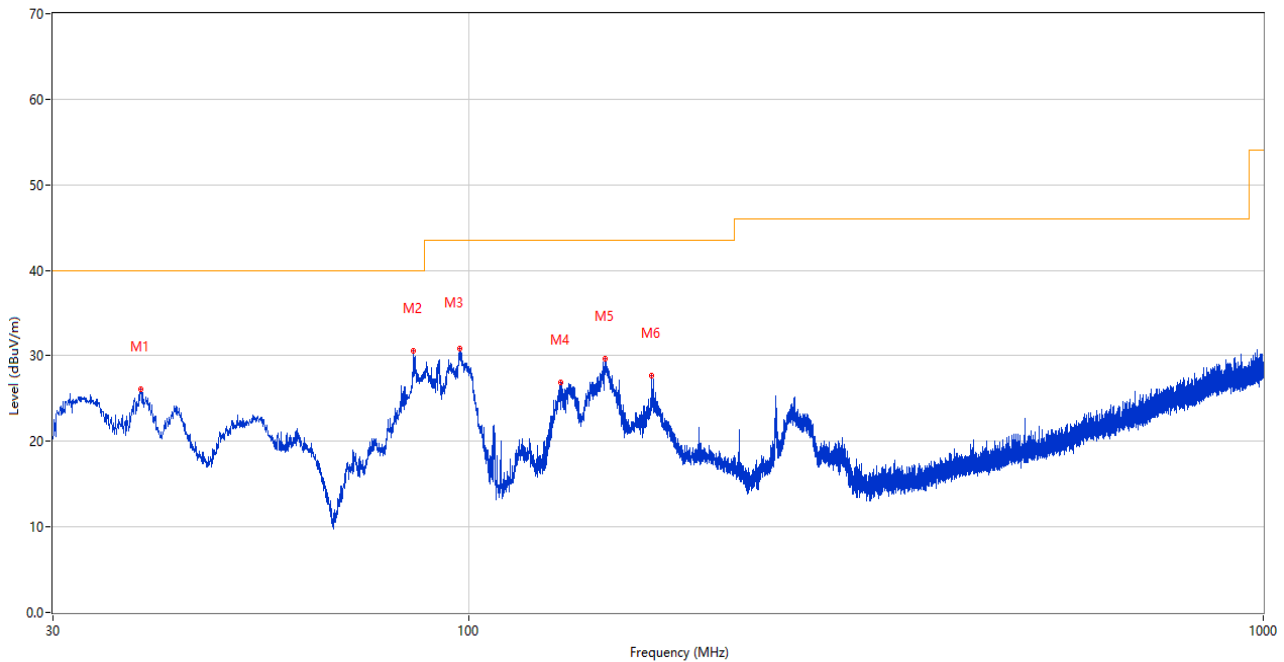
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

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

Test Data and Plots

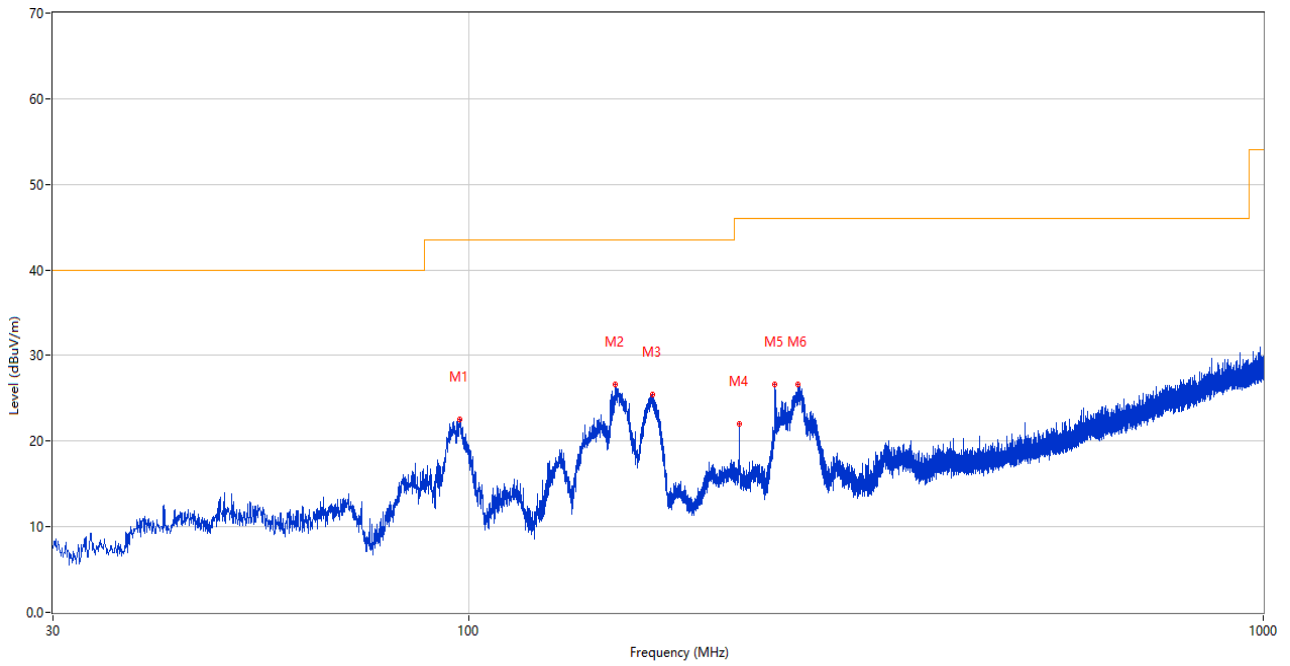
The Camera Test Mode

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



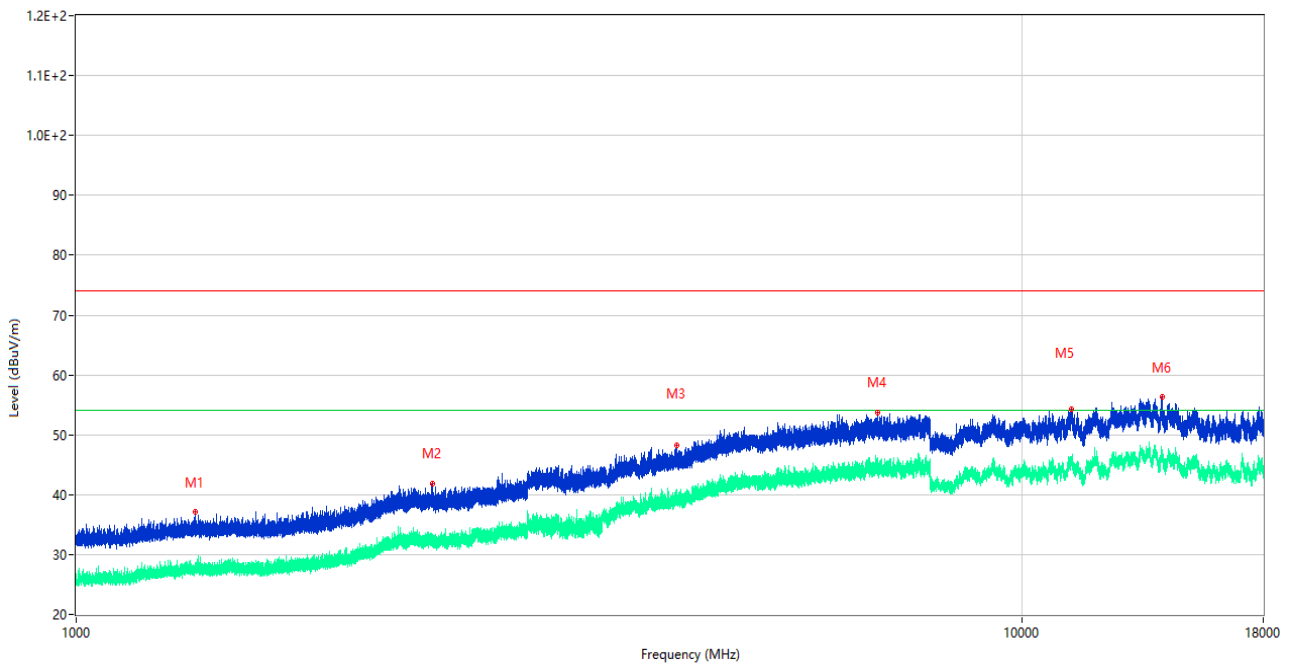
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.730	26.12	-27.04	40.0	13.88	Peak	327.00	100	Vertical	Pass
2	85.290	30.55	-29.89	40.0	9.45	Peak	36.00	100	Vertical	Pass
3	97.367	30.83	-27.17	43.5	12.67	Peak	314.00	100	Vertical	Pass
4	130.443	26.86	-29.77	43.5	16.64	Peak	354.00	100	Vertical	Pass
5	148.437	29.72	-30.11	43.5	13.78	Peak	338.00	100	Vertical	Pass
6	169.971	27.65	-29.18	43.5	15.85	Peak	48.00	100	Vertical	Pass

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



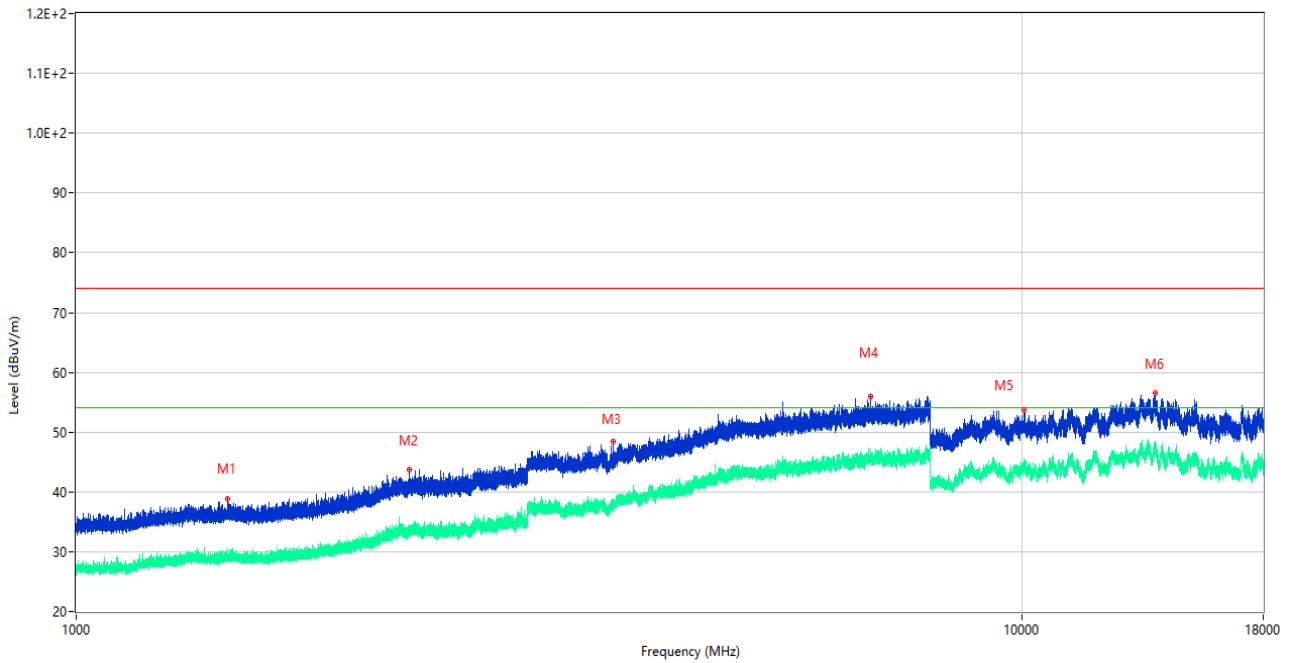
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	97.415	22.52	-27.16	43.5	20.98	Peak	228.00	200	Horizontal	Pass
2	152.850	26.62	-29.91	43.5	16.88	Peak	57.00	200	Horizontal	Pass
3	170.504	25.44	-29.17	43.5	18.06	Peak	257.00	200	Horizontal	Pass
4	219.441	22.07	-26.23	46.0	23.93	Peak	21.00	100	Horizontal	Pass
5	242.576	26.62	-25.05	46.0	19.38	Peak	221.00	100	Horizontal	Pass
6	259.745	26.58	-24.60	46.0	19.42	Peak	234.00	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1337.800	37.06	-16.57	74.0	36.94	Peak	192.00	100	Vertical	Pass
1**	1337.800	27.36	-16.57	54.0	26.64	AV	192.00	100	Vertical	Pass
2	2382.700	41.91	-11.54	74.0	32.09	Peak	342.00	100	Vertical	Pass
2**	2382.700	32.80	-11.54	54.0	21.20	AV	342.00	100	Vertical	Pass
3	4315.500	48.24	-2.20	74.0	25.76	Peak	44.00	100	Vertical	Pass
3**	4315.500	39.04	-2.20	54.0	14.96	AV	44.00	100	Vertical	Pass
4	7038.750	53.72	1.41	74.0	20.28	Peak	108.00	100	Vertical	Pass
4**	7038.750	45.07	1.41	54.0	8.93	AV	108.00	100	Vertical	Pass
5	11293.000	54.36	2.32	74.0	19.64	Peak	78.00	100	Vertical	Pass
5**	11293.000	45.09	2.32	54.0	8.91	AV	78.00	100	Vertical	Pass
6	14062.500	56.30	5.07	74.0	17.70	Peak	226.00	100	Vertical	Pass
6**	14062.500	46.76	5.07	54.0	7.24	AV	226.00	100	Vertical	Pass

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

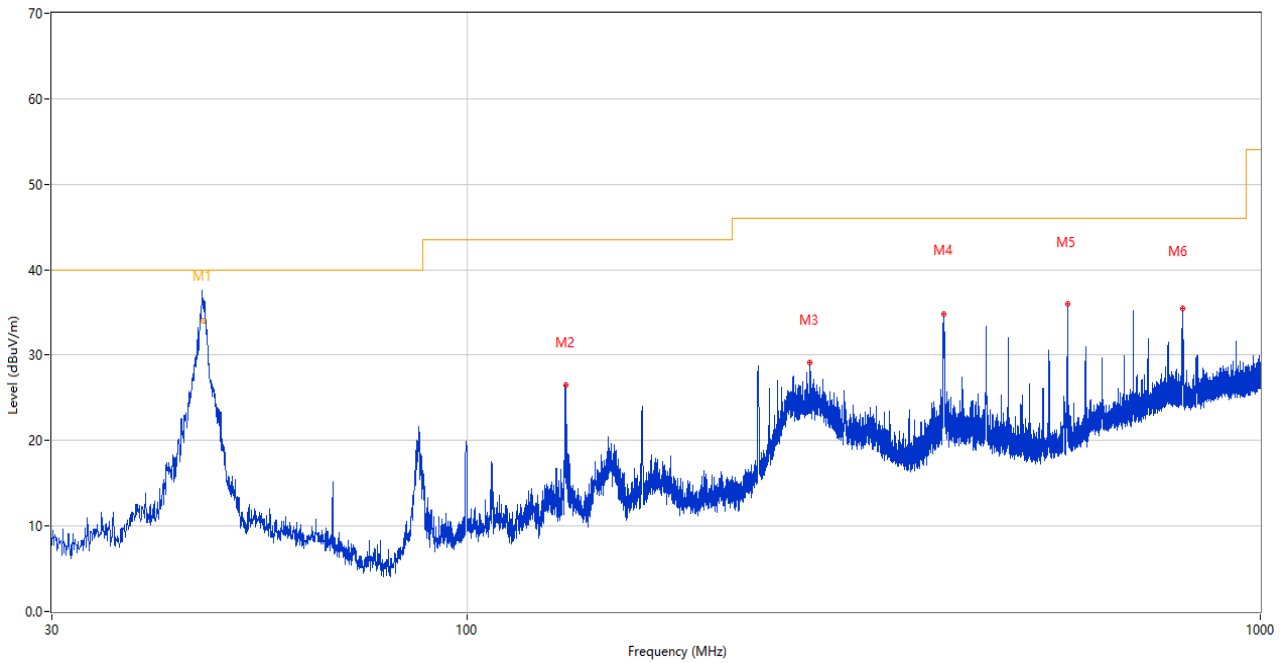


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.800	38.88	-16.70	74.0	35.12	Peak	238.00	100	Horizontal	Pass
1**	1445.800	28.77	-16.70	54.0	25.23	AV	238.00	100	Horizontal	Pass
2	2249.100	43.71	-11.95	74.0	30.29	Peak	296.00	100	Horizontal	Pass
2**	2249.100	33.76	-11.95	54.0	20.24	AV	296.00	100	Horizontal	Pass
3	3698.500	48.40	-4.52	74.0	25.60	Peak	182.00	100	Horizontal	Pass
3**	3698.500	37.03	-4.52	54.0	16.97	AV	182.00	100	Horizontal	Pass
4	6923.000	55.93	1.78	74.0	18.07	Peak	81.00	100	Horizontal	Pass
4**	6923.000	45.72	1.78	54.0	8.28	AV	81.00	100	Horizontal	Pass
5	10062.000	53.65	2.28	74.0	20.35	Peak	176.00	100	Horizontal	Pass
5**	10062.000	44.87	2.28	54.0	9.13	AV	176.00	100	Horizontal	Pass
6	13826.000	56.50	5.48	74.0	17.50	Peak	110.00	100	Horizontal	Pass
6**	13826.000	47.02	5.48	54.0	6.98	AV	110.00	100	Horizontal	Pass

Test Data and Plots

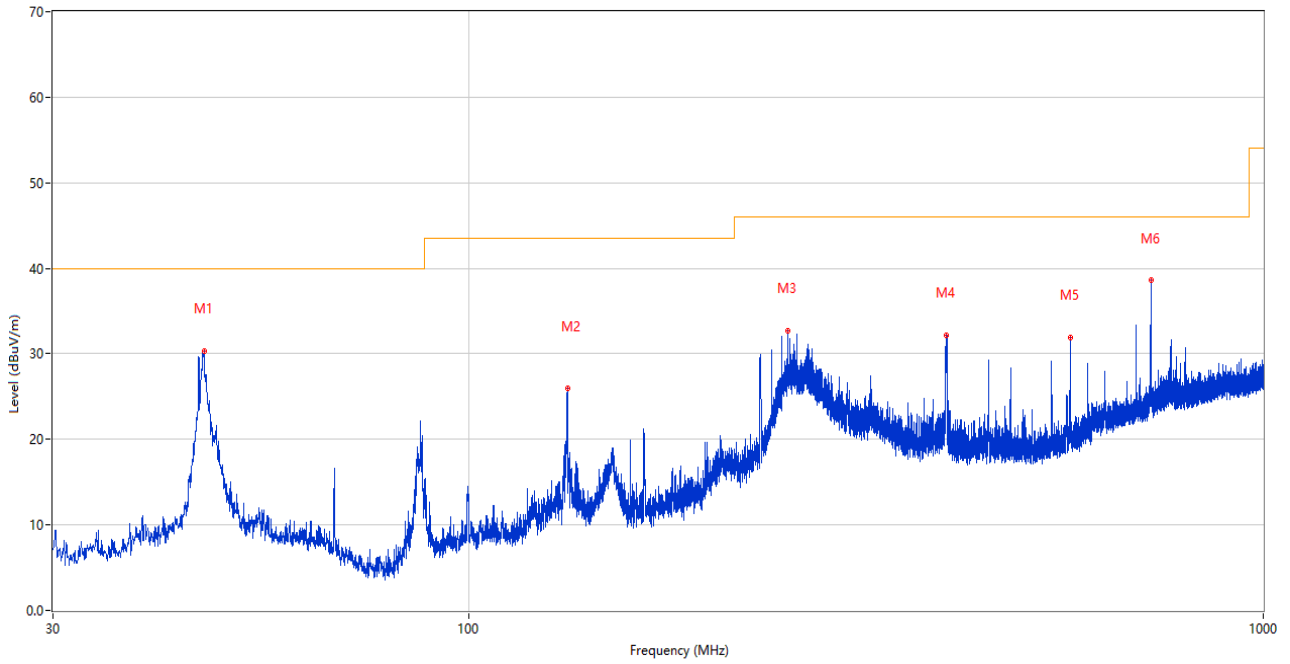
The Data transmission Test Mode

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



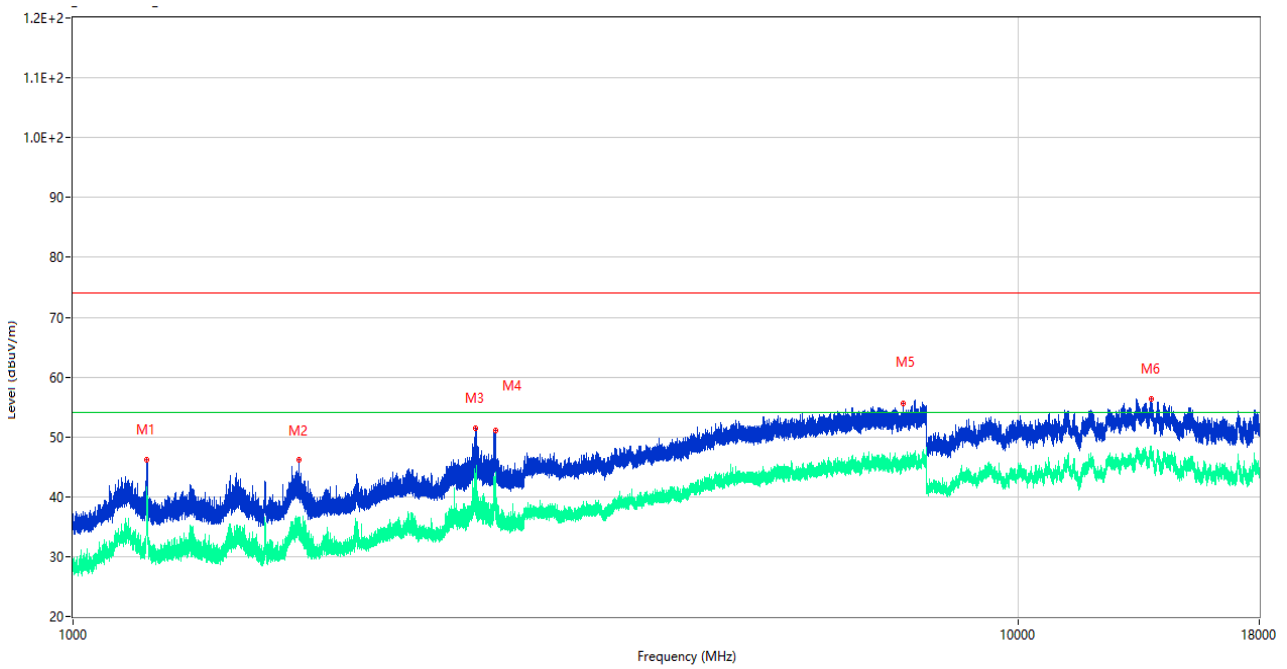
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.521	44.50	-25.56	40.0	-4.50	Peak	262.00	106	Vertical	N/A
1*	46.521	33.99	-25.56	40.0	6.01	QP	262.00	106	Vertical	Pass
2	133.160	26.48	-29.98	43.5	17.02	Peak	228.00	100	Vertical	Pass
3	270.948	29.08	-24.40	46.0	16.92	Peak	161.00	200	Vertical	Pass
4	398.842	34.85	-20.99	46.0	11.15	Peak	162.00	100	Vertical	Pass
5	571.987	36.04	-16.98	46.0	9.96	Peak	63.00	100	Vertical	Pass
6	797.270	35.47	-11.95	46.0	10.53	Peak	191.00	200	Vertical	Pass

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



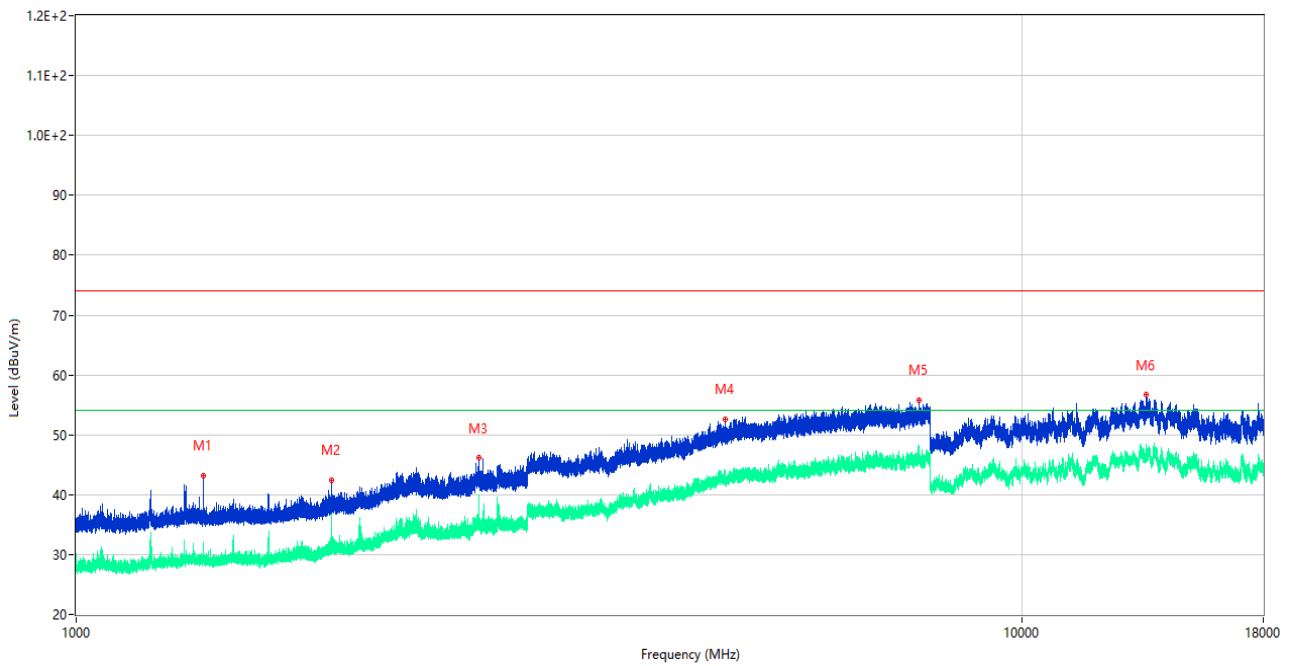
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.490	30.32	-25.56	40.0	9.68	Peak	153.00	200	Horizontal	Pass
2	133.208	25.93	-29.99	43.5	17.57	Peak	57.00	200	Horizontal	Pass
3	252.033	32.74	-24.82	46.0	13.26	Peak	265.00	100	Horizontal	Pass
4	399.328	32.21	-20.97	46.0	13.79	Peak	188.00	100	Horizontal	Pass
5	571.551	31.88	-17.00	46.0	14.12	Peak	232.00	200	Horizontal	Pass
6	721.901	38.56	-13.57	46.0	7.44	Peak	248.00	100	Horizontal	Pass

A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.700	46.24	-17.28	74.0	27.76	Peak	220.00	100	Vertical	Pass
1**	1197.700	38.31	-17.28	54.0	15.69	AV	220.00	100	Vertical	Pass
2	1732.700	46.11	-16.56	74.0	27.89	Peak	147.00	100	Vertical	Pass
2**	1732.700	33.78	-16.56	54.0	20.22	AV	147.00	100	Vertical	Pass
3	2664.900	51.51	-9.37	74.0	22.49	Peak	165.00	100	Vertical	Pass
3**	2664.900	41.53	-9.37	54.0	12.47	AV	165.00	100	Vertical	Pass
4	2797.800	51.05	-8.77	74.0	22.95	Peak	161.00	100	Vertical	Pass
4**	2797.800	38.65	-8.77	54.0	15.35	AV	161.00	100	Vertical	Pass
5	7553.250	55.59	2.51	74.0	18.41	Peak	253.00	100	Vertical	Pass
5**	7553.250	44.92	2.51	54.0	9.08	AV	253.00	100	Vertical	Pass
6	13828.500	56.34	5.45	74.0	17.66	Peak	15.00	100	Vertical	Pass
6**	13828.500	46.53	5.45	54.0	7.47	AV	15.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1363.100	43.20	-16.78	74.0	30.80	Peak	82.00	100	Horizontal	Pass
1**	1363.100	29.40	-16.78	54.0	24.60	AV	82.00	100	Horizontal	Pass
2	1861.700	42.42	-15.65	74.0	31.58	Peak	250.00	100	Horizontal	Pass
2**	1861.700	32.98	-15.65	54.0	21.02	AV	250.00	100	Horizontal	Pass
3	2665.000	46.15	-9.39	74.0	27.85	Peak	135.00	100	Horizontal	Pass
3**	2665.000	36.38	-9.39	54.0	17.62	AV	135.00	100	Horizontal	Pass
4	4851.250	52.51	0.51	74.0	21.49	Peak	151.00	100	Horizontal	Pass
4**	4851.250	42.55	0.51	54.0	11.45	AV	151.00	100	Horizontal	Pass
5	7777.250	55.79	3.20	74.0	18.21	Peak	198.00	100	Horizontal	Pass
5**	7777.250	47.20	3.20	54.0	6.80	AV	198.00	100	Horizontal	Pass
6	13549.000	56.66	4.72	74.0	17.34	Peak	279.00	100	Horizontal	Pass
6**	13549.000	46.81	4.72	54.0	7.19	AV	279.00	100	Horizontal	Pass

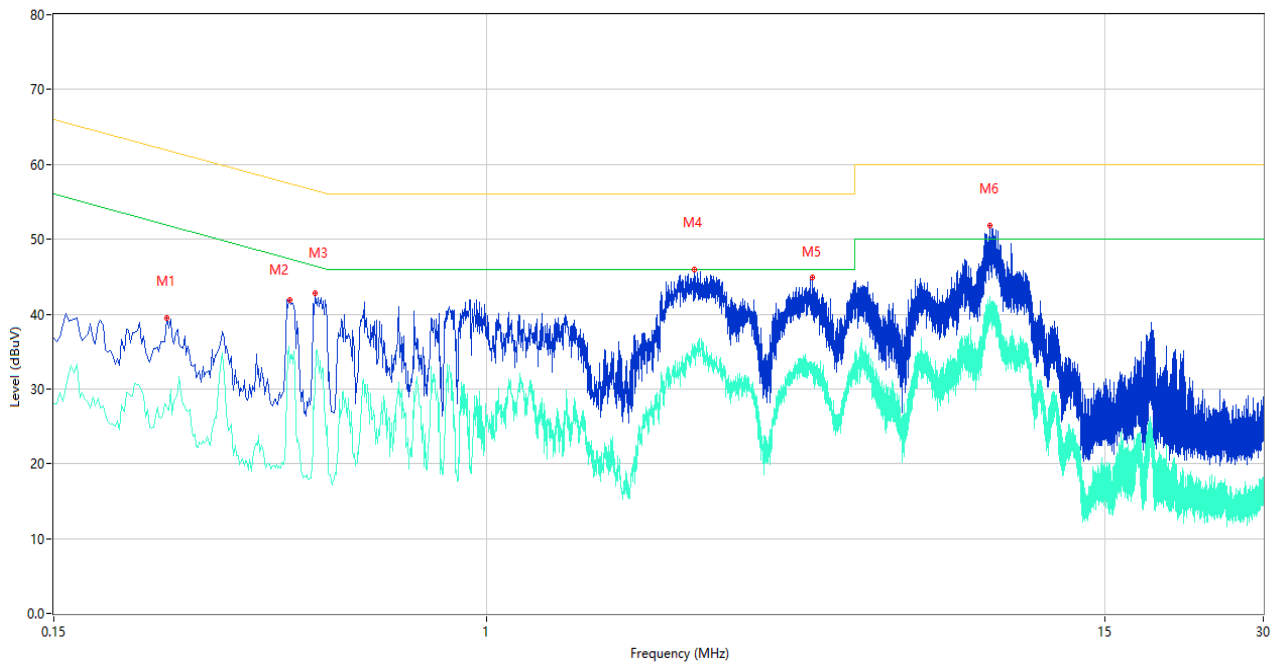
A.2 Conducted Emission

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

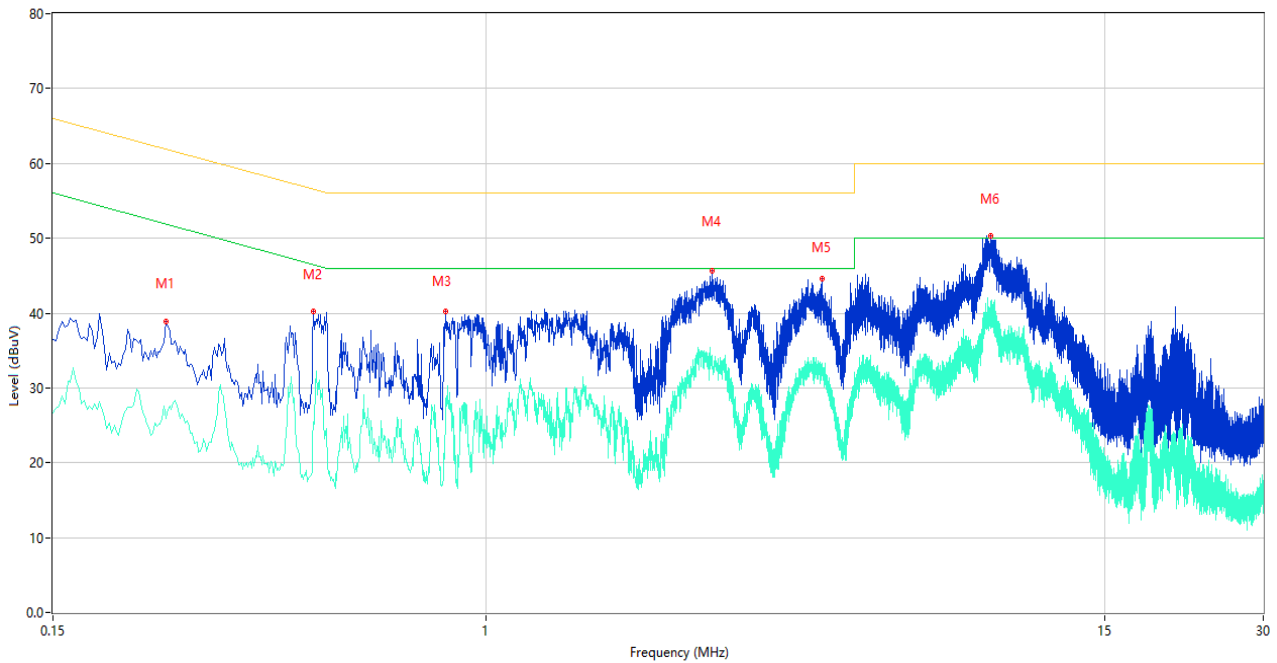
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.246	39.48	9.79	61.89	22.41	Peak	L	Pass
1**	0.246	27.55	9.79	51.89	24.34	AV	L	Pass
2	0.422	41.94	10.35	57.41	15.47	Peak	L	Pass
2**	0.422	33.43	10.35	47.41	13.98	AV	L	Pass
3	0.472	42.81	10.20	56.48	13.67	Peak	L	Pass
3**	0.472	30.89	10.20	46.48	15.59	AV	L	Pass
4	2.486	46.01	9.98	56.00	9.99	Peak	L	Pass
4**	2.486	34.44	9.98	46.00	11.56	AV	L	Pass
5	4.160	44.96	10.23	56.00	11.04	Peak	L	Pass
5**	4.160	33.09	10.23	46.00	12.91	AV	L	Pass
6	9.074	51.79	10.31	60.00	8.21	Peak	L	Pass
6**	9.074	40.38	10.31	50.00	9.62	AV	L	Pass

A.2.2 N Phase

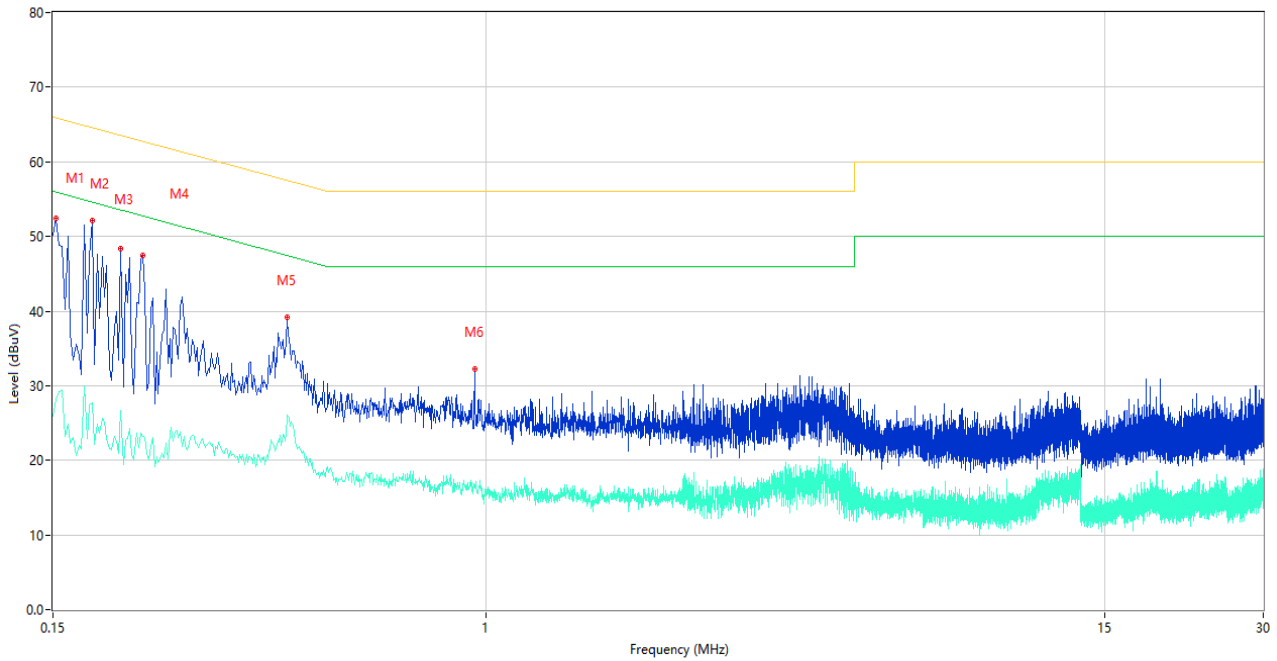


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.246	38.92	9.79	61.89	22.97	Peak	N	Pass
1**	0.246	25.91	9.79	51.89	25.98	AV	N	Pass
2	0.470	40.18	10.21	56.51	16.33	Peak	N	Pass
2**	0.470	25.53	10.21	46.51	20.98	AV	N	Pass
3	0.836	40.20	10.14	56.00	15.80	Peak	N	Pass
3**	0.836	26.98	10.14	46.00	19.02	AV	N	Pass
4	2.684	45.65	10.14	56.00	10.35	Peak	N	Pass
4**	2.684	34.28	10.14	46.00	11.72	AV	N	Pass
5	4.344	44.54	10.46	56.00	11.46	Peak	N	Pass
5**	4.344	33.09	10.46	46.00	12.91	AV	N	Pass
6	9.098	50.32	10.36	60.00	9.68	Peak	N	Pass
6**	9.098	41.56	10.36	50.00	8.44	AV	N	Pass

Test Data and Plots

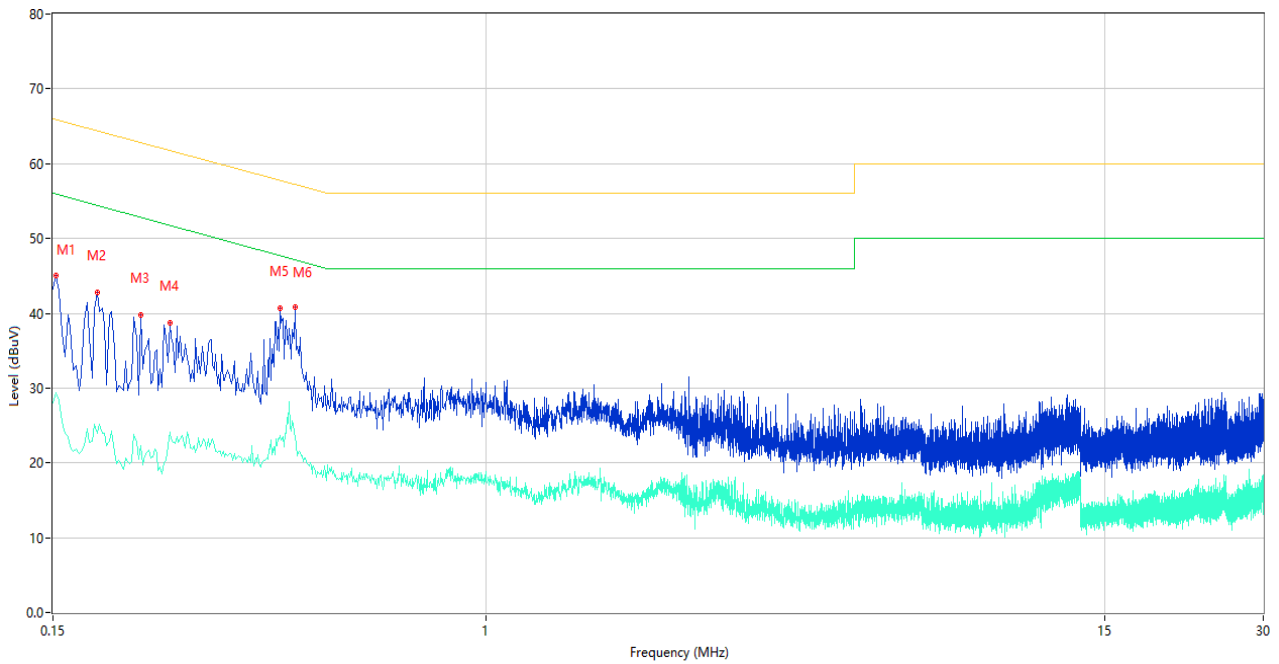
The Data transmission Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	52.40	9.84	65.89	13.49	Peak	L	Pass
1**	0.152	28.11	9.84	55.89	27.78	AV	L	Pass
2	0.178	52.17	9.81	64.58	12.41	Peak	L	Pass
2**	0.178	27.74	9.81	54.58	26.84	AV	L	Pass
3	0.202	48.38	9.78	63.53	15.15	Peak	L	Pass
3**	0.202	26.70	9.78	53.53	26.83	AV	L	Pass
4	0.222	47.41	9.78	62.74	15.33	Peak	L	Pass
4**	0.222	23.27	9.78	52.74	29.47	AV	L	Pass
5	0.418	39.20	10.36	57.49	18.29	Peak	L	Pass
5**	0.418	26.08	10.36	47.49	21.41	AV	L	Pass
6	0.950	32.17	10.72	56.00	23.83	Peak	L	Pass
6**	0.950	16.29	10.72	46.00	29.71	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	45.06	9.84	65.89	20.83	Peak	N	Pass
1**	0.152	29.31	9.84	55.89	26.58	AV	N	Pass
2	0.182	42.79	9.80	64.39	21.60	Peak	N	Pass
2**	0.182	23.89	9.80	54.39	30.50	AV	N	Pass
3	0.220	39.71	9.78	62.82	23.11	Peak	N	Pass
3**	0.220	22.36	9.78	52.82	30.46	AV	N	Pass
4	0.250	38.65	9.79	61.76	23.11	Peak	N	Pass
4**	0.250	24.05	9.79	51.76	27.71	AV	N	Pass
5	0.406	40.70	10.37	57.73	17.03	Peak	N	Pass
5**	0.406	23.63	10.37	47.73	24.10	AV	N	Pass
6	0.434	40.89	10.33	57.18	16.29	Peak	N	Pass
6**	0.434	23.48	10.33	47.18	23.70	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2361029-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2361029-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2361029-AI.PDF”.

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--END OF REPORT--