

FCC

EMC

TEST REPORT

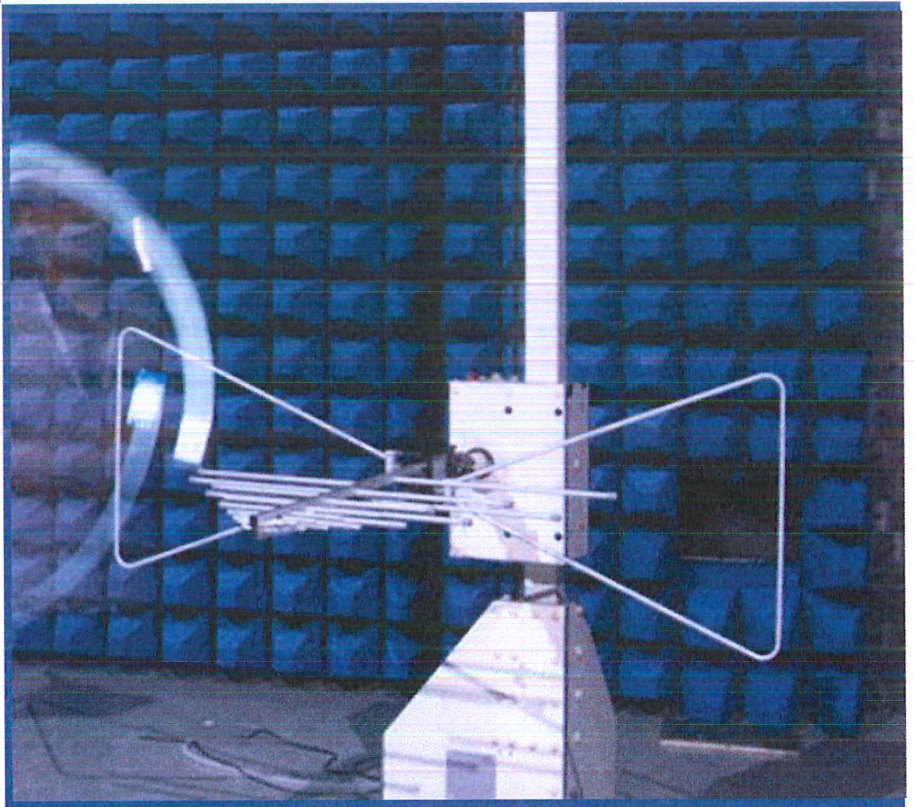
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile phone

ISSUED TO
Realfit(Shenzhen) Intelligent Technology Co., Ltd

Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen



Tested by: Xiong Chong
Xiong Chong

Date Feb. 24, 2021

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date Feb. 24, 2021

Report No.: BL-SZ2110678-401

EUT Name: Mobile phone

Model Name: DH2001

Brand Name: DIZO

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AYPPDH2001

Test Conclusion: Pass

Test Date: Feb. 01, 2021 ~ Feb. 20, 2021

Date of Issue: Feb. 24, 2021

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Feb. 24, 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 v7.0.
- (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	Realfit(Shenzhen) Intelligent Technology Co., Ltd
Address	Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen

2.2 Manufacturer Information

Manufacturer	Realfit(Shenzhen) Intelligent Technology Co., Ltd
Address	Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen

2.3 Factory Information

Factory	Sichuan Suge Communication Technology Co., Ltd.
Address	No.31, West gangyuan Road, Yibin Lingang Economic and Technological Development Zone, Yibin, Sichuan

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile phone
Model Name Under Test	DH2001
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V0.2
Software Version	dizo_DH2001_V1.6.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	DIZO
	Model No.	DH2001
	Serial No.	N/A
	Capacity	2475 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V
Ancillary Equipment 2	Adapter	
	Brand Name	DIZO
	Model No.	PA-5V550mA-005
	Serial No.	N/A
	Rated Input	100-240 V~, 0.15 A, 50/60 Hz
	Rated Output	5 V= 0.55 A

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM 850/1900 MHz
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	N/A
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3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-19 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

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)	3.67 dB
Radiated emissions (1 GHz-18 GHz)	3.57 dB
Radiated emissions (18 GHz-40 GHz)	5.16 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 3.7 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	<input type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-0883	2020.05.11	2022.05.10	<input type="checkbox"/>
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.08.08	2021.08.07	<input type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input type="checkbox"/>

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	2020.09.18	2021.09.17	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.27	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency 1 GHz-18 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2020.09.18	2021.09.17	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2021.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2021.01.05	2023.01.04	<input type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	<input type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2020.06.08	2021.06.07	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08	<input checked="" type="checkbox"/>
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2.8m	N/A	2018.08.16	2021.08.15	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

4.3 Test Enclosure list

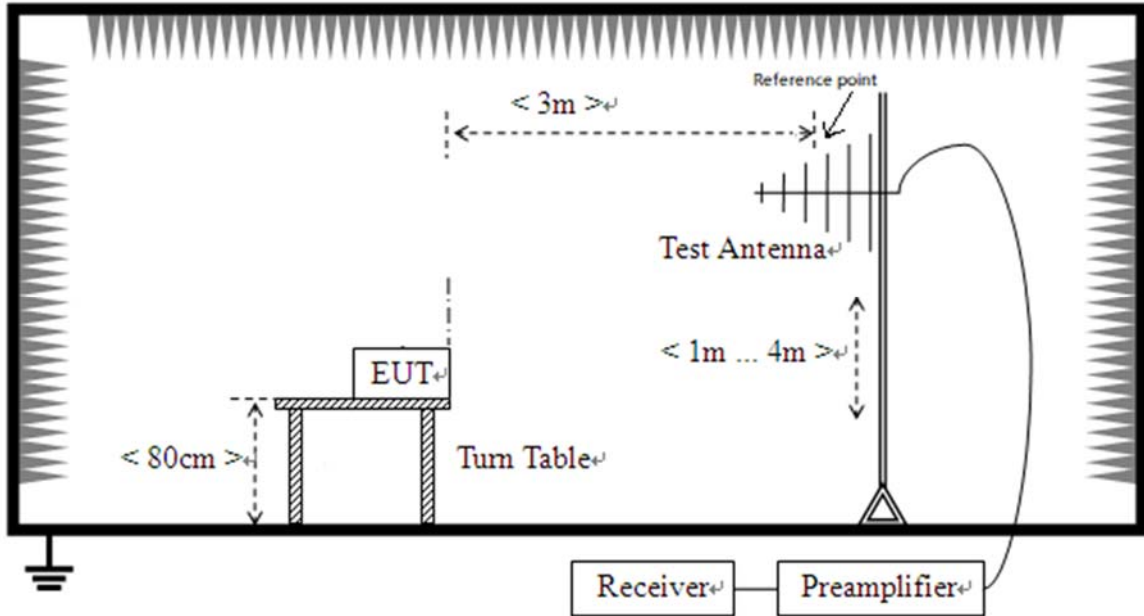
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	<input type="checkbox"/>
Laptop	Apple	A1465	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input type="checkbox"/>
Mouse	Logitech	M100	N/A	N/A	N/A	<input type="checkbox"/>
USB disk	Kingston	N/A	N/A	N/A	N/A	<input type="checkbox"/>
TF Card	Kingston	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	<input type="checkbox"/>
iPhone	Apple	A1586	N/A	N/A	N/A	<input type="checkbox"/>
Phone	MI	M4	N/A	N/A	N/A	<input type="checkbox"/>
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	<input type="checkbox"/>
Wireless Communications Test Set	R&S	CMW500	142028	N/A	Cal. Due 2021.06.08	<input type="checkbox"/>
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	<input type="checkbox"/>
Earphone	N/A	OPPO	N/A	1.1 m	N/A	<input checked="" type="checkbox"/>
Car Battery	Camel	55530	N/A	N/A	12 V/55 Ah	<input type="checkbox"/>
Artificial load	N/A	N/A	N/A	N/A	2.5 Ω/100 W	<input type="checkbox"/>
Artificial load	N/A	N/A	N/A	N/A	5 Ω/100 W	<input type="checkbox"/>
Electronic Load	ITECH	IT8511	N/A	N/A	N/A	<input type="checkbox"/>
USB Cable	N/A	N/A	N/A	1.0 m	Shielded with core	<input checked="" type="checkbox"/>
DC Power Supply	ITECH	IT6863A	60001401068 7210006	N/A	N/A	<input type="checkbox"/>
LCD Monitor	SAMSUNG	UA32C4000P	N/A	N/A	N/A	<input type="checkbox"/>
LCD Monitor	Dell	U241HB	N/A	N/A	N/A	<input type="checkbox"/>
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The Camera Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone
TC02	<u>The Video Play Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone
TC03	<u>The FM RX Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone + FM RX
TC04	<u>The GSM 850 RX Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone + GSM 850 RX
TC05	<u>The USB Test Mode</u> EUT + Battery + TF Card + Earphone + USB Cable + Laptop

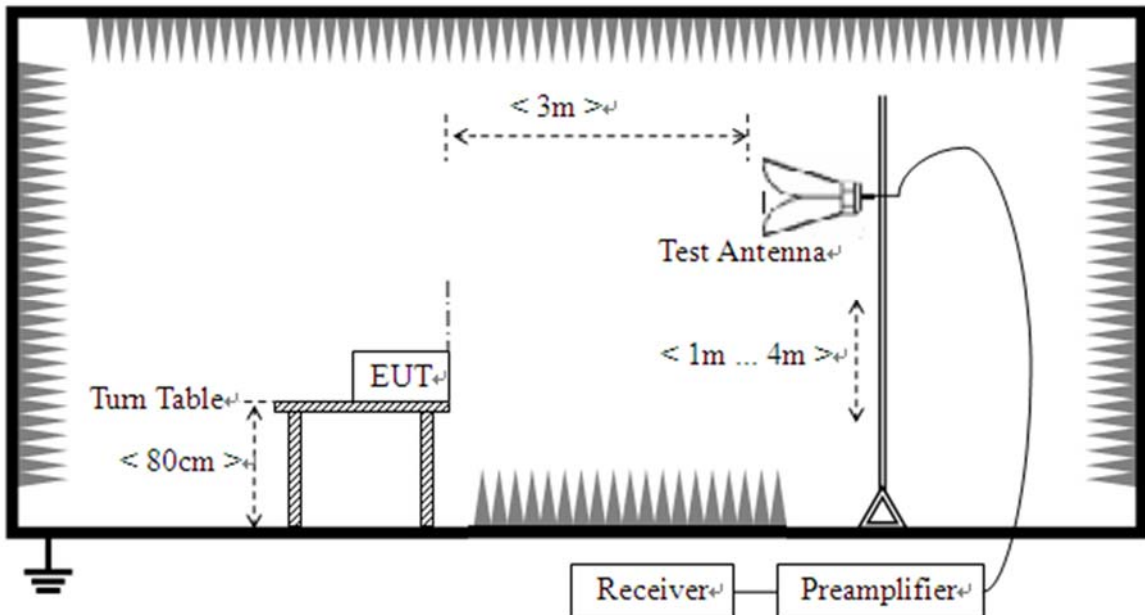
4.5 Test Setups

Test Setup 1



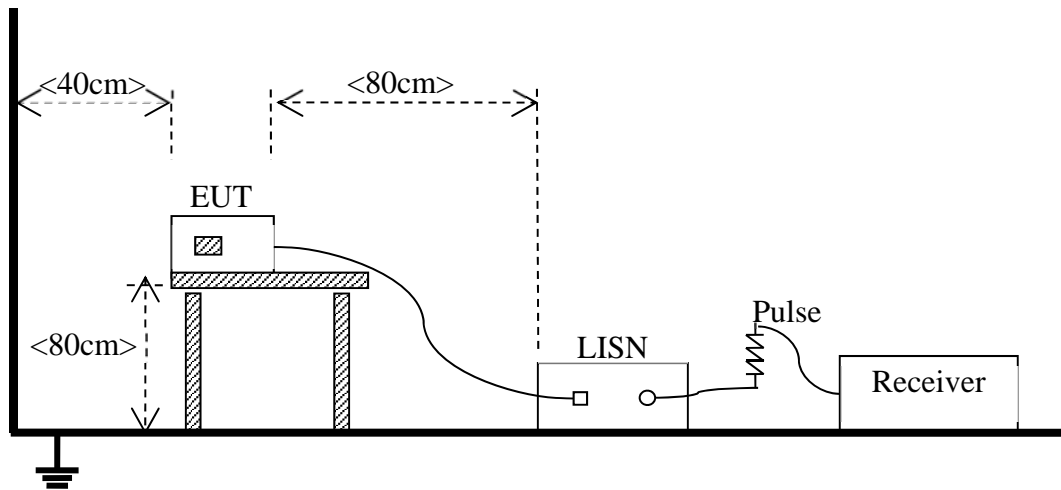
(For Radiated Emission Test (30 MHz-1 GHz))

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~TC05 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC05 ^{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 and The USB Test Mode are 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.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

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

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

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

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

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

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

ANNEX A TEST RESULTS

A.1 Radiated Emission

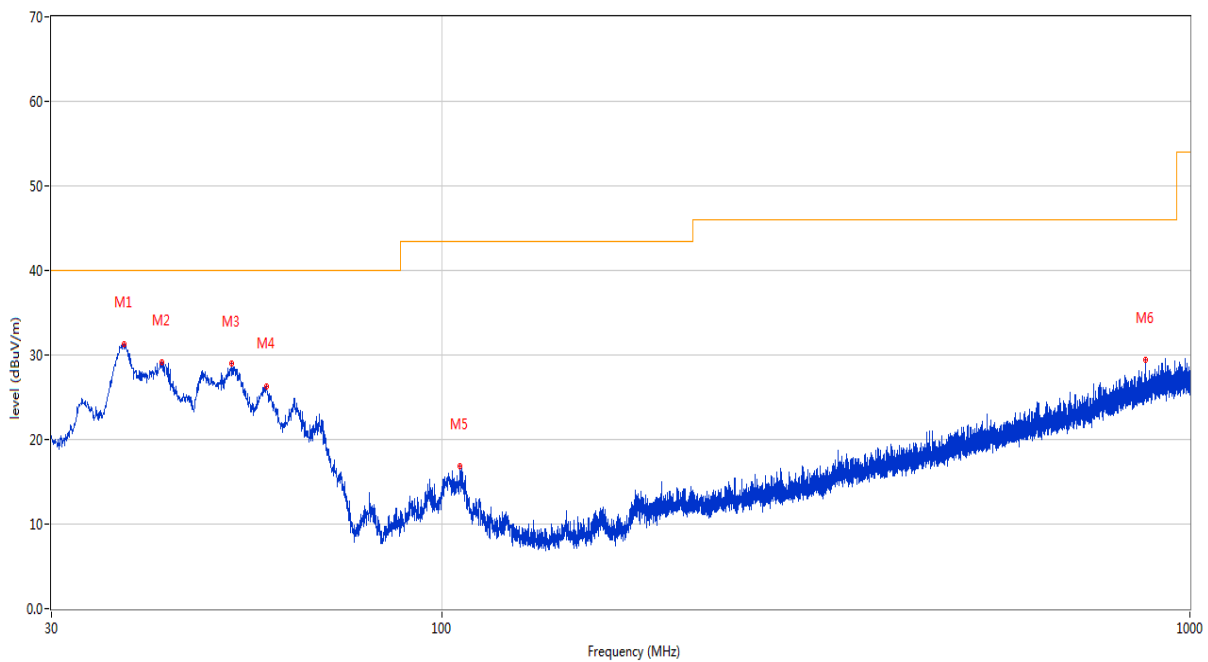
Note 1: The symbol of "--" in the table which means not application.

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.

Test Data and Plots

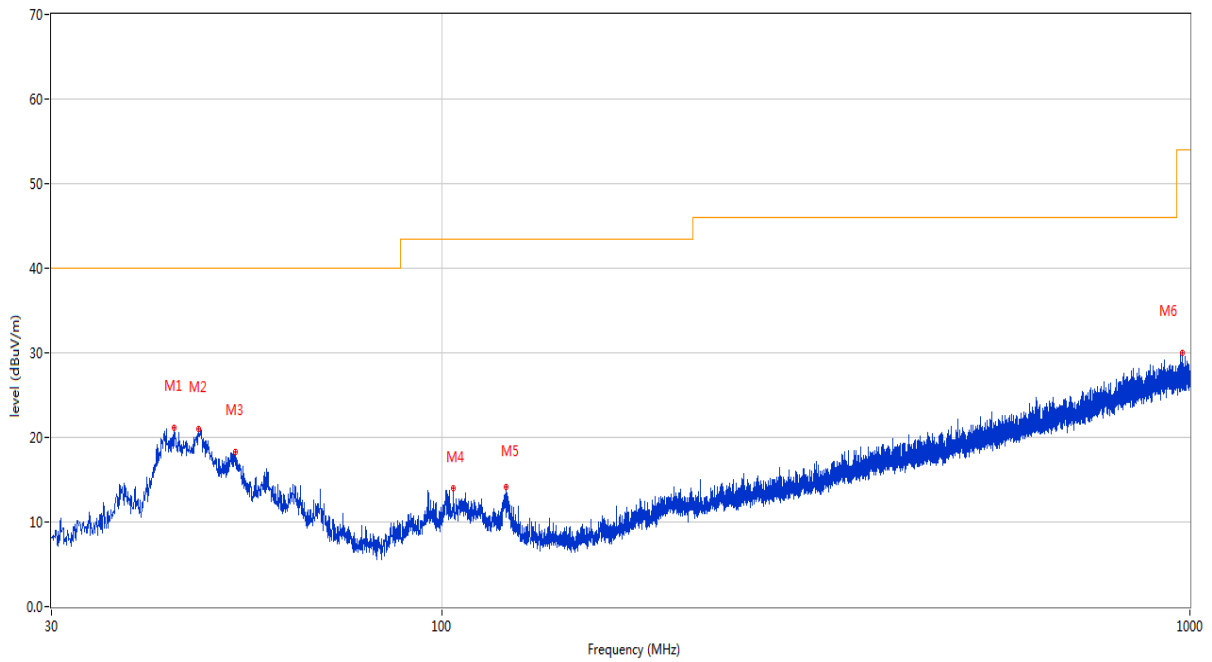
The Camera Test Mode

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



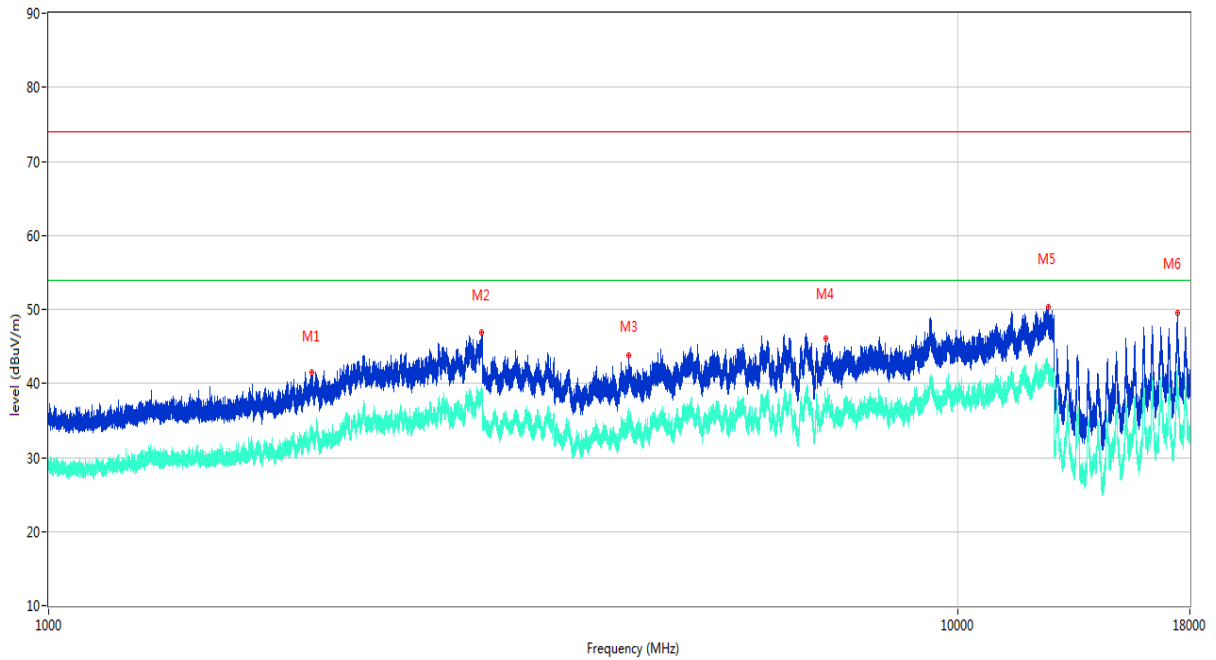
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.469	31.26	-24.56	40.0	-8.74	Peak	215.60	100	Vertical	Pass
2	42.125	29.08	-23.45	40.0	-10.92	Peak	296.20	100	Vertical	Pass
3	52.261	28.97	-23.13	40.0	-11.03	Peak	0.50	100	Vertical	Pass
4	58.130	26.22	-24.10	40.0	-13.78	Peak	224.20	100	Vertical	Pass
5	105.660	16.80	-24.21	43.5	-26.70	Peak	168.90	100	Vertical	Pass
6	873.124	29.37	-10.30	46.0	-16.63	Peak	16.20	100	Vertical	Pass

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



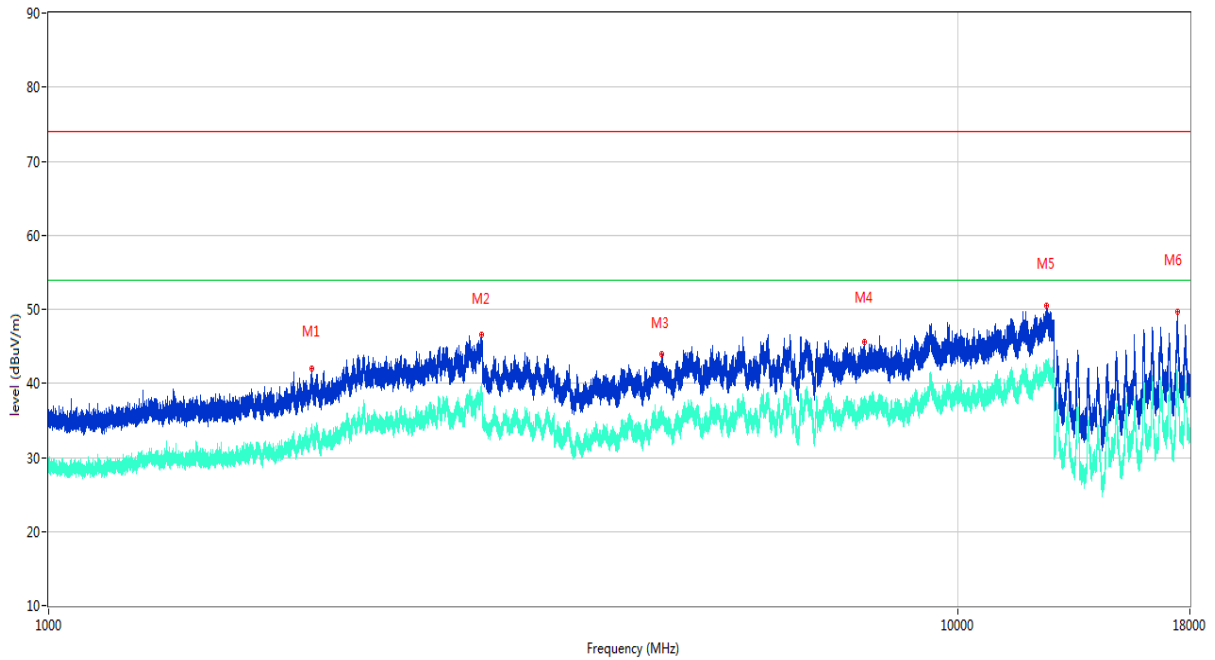
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.725	21.14	-23.32	40.0	-18.86	Peak	163.00	200	Horizontal	Pass
2	47.218	21.02	-22.83	40.0	-18.98	Peak	133.70	200	Horizontal	Pass
3	52.795	18.27	-23.04	40.0	-21.73	Peak	113.50	100	Horizontal	Pass
4	103.429	13.96	-24.42	43.5	-29.54	Peak	266.50	200	Horizontal	Pass
5	121.520	14.18	-25.83	43.5	-29.32	Peak	211.90	100	Horizontal	Pass
6	976.332	30.04	-8.61	54.0	-23.96	Peak	164.70	100	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	1945.400	41.44	-11.93	74.0	-32.56	Peak	169.70	100	Vertical	Pass
1**	1945.400	33.02	-11.93	54.0	-20.98	AV	169.70	100	Vertical	Pass
2	2990.300	46.86	-5.14	74.0	-27.14	Peak	60.80	100	Vertical	Pass
2**	2990.300	37.86	-5.14	54.0	-16.14	AV	60.80	100	Vertical	Pass
3	4348.000	43.81	-4.09	74.0	-30.19	Peak	326.10	100	Vertical	Pass
3**	4348.000	34.59	-4.09	54.0	-19.41	AV	326.10	100	Vertical	Pass
4	7153.238	46.05	15.99	74.0	-27.95	Peak	228.40	100	Vertical	Pass
4**	7153.238	37.33	15.99	54.0	-16.67	AV	228.40	100	Vertical	Pass
5	12570.888	50.40	22.09	74.0	-23.60	Peak	60.50	100	Vertical	Pass
5**	12570.888	42.08	22.09	54.0	-11.92	AV	60.50	100	Vertical	Pass
6	17450.324	49.45	26.30	74.0	-24.55	Peak	134.30	100	Vertical	Pass
6**	17450.324	41.31	26.30	54.0	-12.69	AV	134.30	100	Vertical	Pass

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

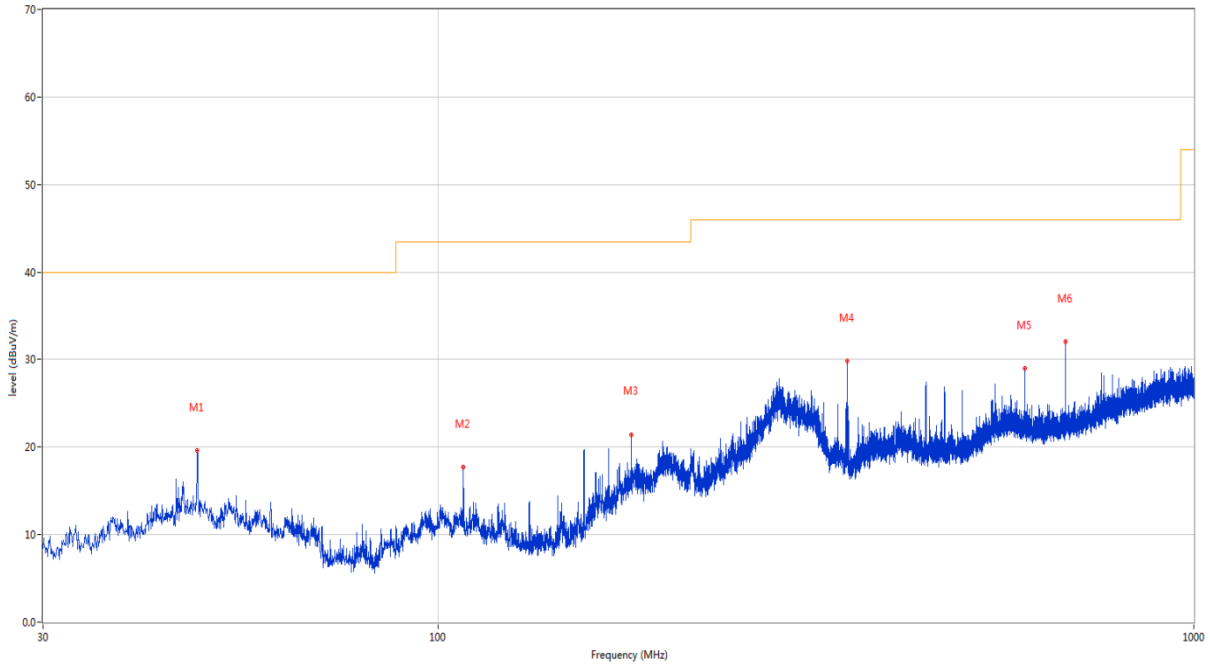


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1946.500	42.08	-11.88	74.0	-31.92	Peak	240.70	100	Horizontal	Pass
1**	1946.500	33.42	-11.88	54.0	-20.58	AV	240.70	100	Horizontal	Pass
2	2991.400	46.51	-5.28	74.0	-27.49	Peak	339.00	100	Horizontal	Pass
2**	2991.400	38.09	-5.28	54.0	-15.91	AV	339.00	100	Horizontal	Pass
3	4721.000	43.95	-3.86	74.0	-30.05	Peak	22.30	100	Horizontal	Pass
3**	4721.000	34.54	-3.86	54.0	-19.46	AV	22.30	100	Horizontal	Pass
4	7903.612	45.52	17.31	74.0	-28.48	Peak	35.40	100	Horizontal	Pass
4**	7903.612	35.95	17.31	54.0	-18.05	AV	35.40	100	Horizontal	Pass
5	12529.487	50.57	21.63	74.0	-23.43	Peak	178.40	100	Horizontal	Pass
5**	12529.487	43.05	21.63	54.0	-10.95	AV	178.40	100	Horizontal	Pass
6	17434.313	49.59	25.74	74.0	-24.41	Peak	157.40	100	Horizontal	Pass
6**	17434.313	40.96	25.74	54.0	-13.04	AV	157.40	100	Horizontal	Pass

Test Data and Plots

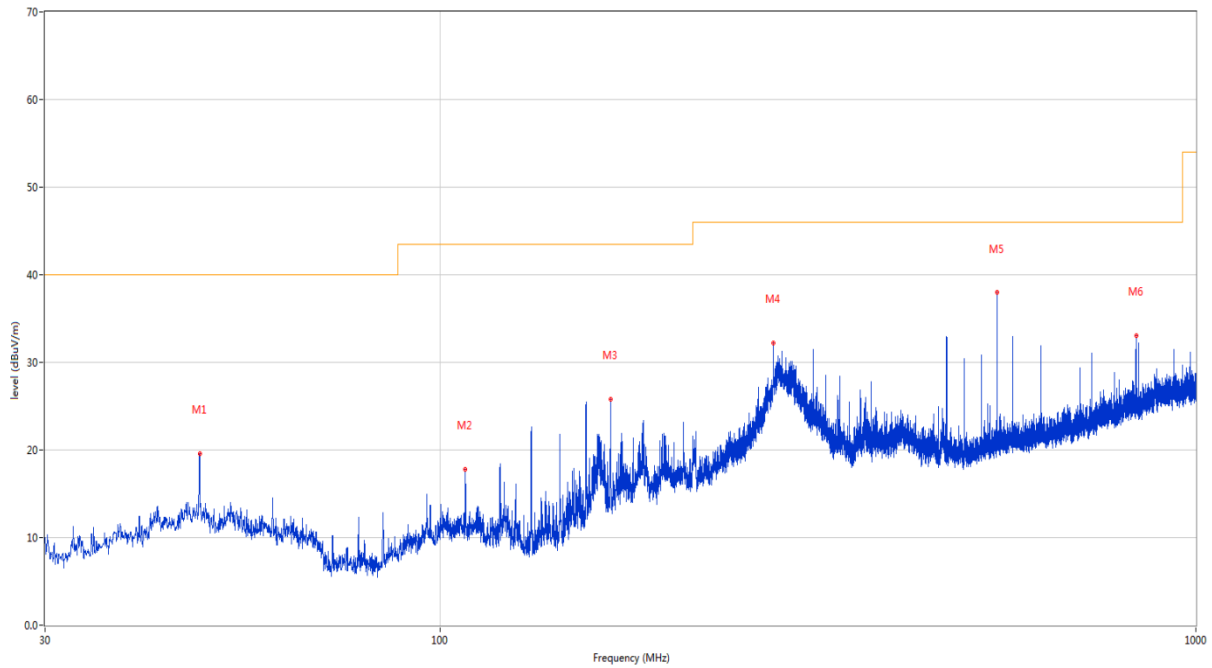
The USB Test Mode

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



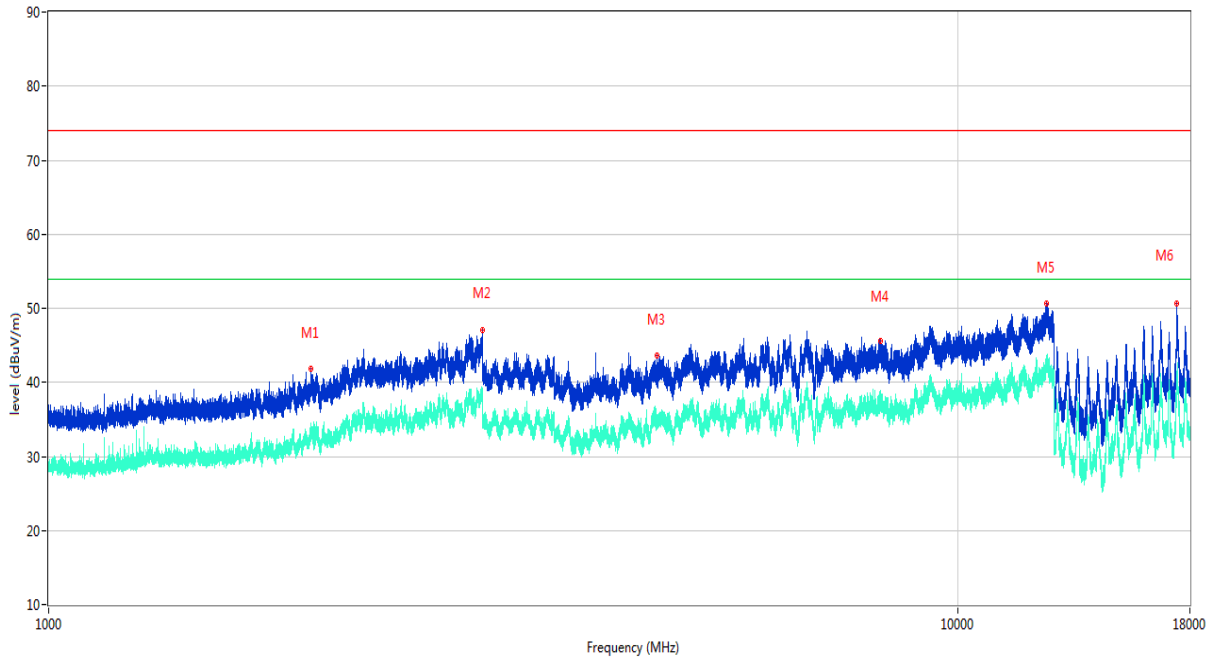
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.993	19.59	-22.64	40.0	-20.41	Peak	17.40	100	Vertical	Pass
2	108.036	17.66	-24.35	43.5	-25.84	Peak	275.80	200	Vertical	Pass
3	180.059	21.40	-26.04	43.5	-22.10	Peak	164.50	100	Vertical	Pass
4	348.014	29.83	-19.88	46.0	-16.17	Peak	0.00	200	Vertical	Pass
5	597.984	28.97	-14.46	46.0	-17.03	Peak	44.00	200	Vertical	Pass
6	676.020	32.04	-13.27	46.0	-13.96	Peak	298.60	100	Vertical	Pass

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



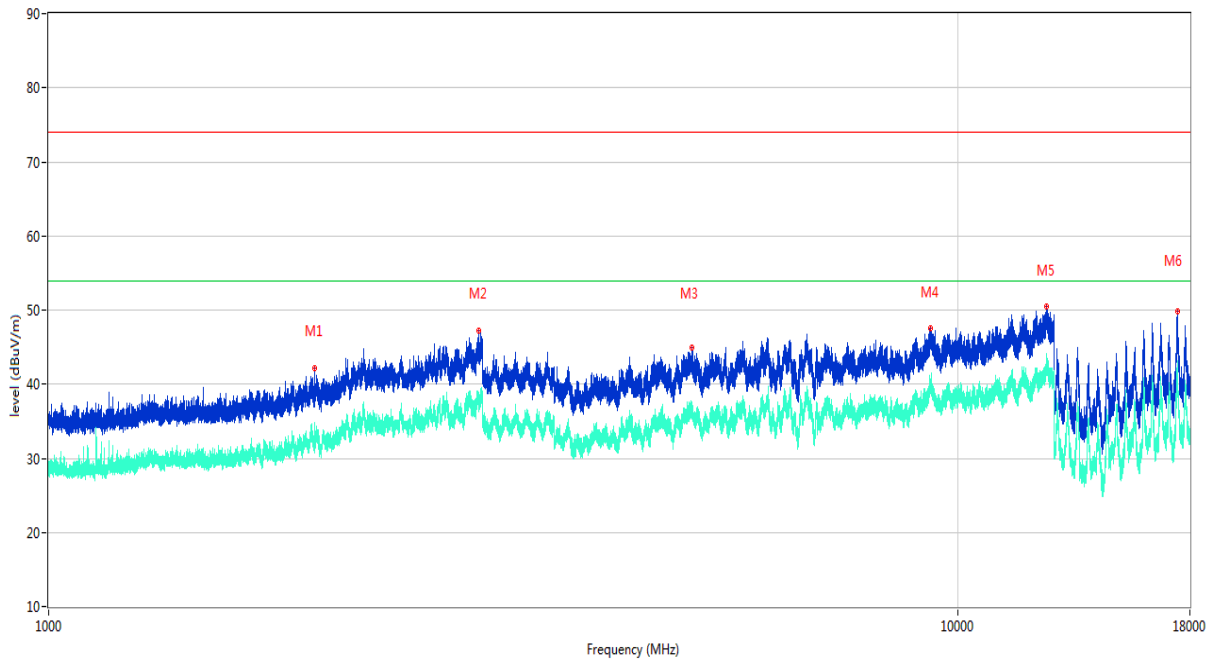
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.042	19.56	-22.63	40.0	-20.44	Peak	0.00	200	Horizontal	Pass
2	107.988	17.80	-24.34	43.5	-25.70	Peak	171.30	200	Horizontal	Pass
3	167.982	25.82	-27.17	43.5	-17.68	Peak	0.00	200	Horizontal	Pass
4	276.041	32.26	-22.08	46.0	-13.74	Peak	235.60	100	Horizontal	Pass
5	545.991	38.03	-15.37	46.0	-7.97	Peak	282.60	200	Horizontal	Pass
6	833.596	33.05	-11.21	46.0	-12.95	Peak	91.10	200	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	1944.600	41.78	-11.96	74.0	-32.22	Peak	222.10	100	Vertical	Pass
1**	1944.600	32.91	-11.96	54.0	-21.09	AV	222.10	100	Vertical	Pass
2	3000.000	47.14	-6.42	74.0	-26.86	Peak	170.00	100	Vertical	Pass
2**	3000.000	37.49	-6.42	54.0	-16.51	AV	170.00	100	Vertical	Pass
3	4671.800	43.62	-4.24	74.0	-30.38	Peak	274.90	100	Vertical	Pass
3**	4671.800	34.36	-4.24	54.0	-19.64	AV	274.90	100	Vertical	Pass
4	8219.575	45.58	17.29	74.0	-28.42	Peak	121.10	100	Vertical	Pass
4**	8219.575	37.40	17.29	54.0	-16.60	AV	121.10	100	Vertical	Pass
5	12510.800	50.58	21.28	74.0	-23.42	Peak	52.20	100	Vertical	Pass
5**	12510.800	42.61	21.28	54.0	-11.39	AV	52.20	100	Vertical	Pass
6	17427.489	50.67	25.70	74.0	-23.33	Peak	327.50	100	Vertical	Pass
6**	17427.489	40.57	25.70	54.0	-13.43	AV	327.50	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	1961.100	42.18	-13.03	74.0	-31.82	Peak	4.40	100	Horizontal	Pass
1**	1961.100	34.34	-13.03	54.0	-19.66	AV	4.40	100	Horizontal	Pass
2	2969.300	47.21	-5.61	74.0	-26.79	Peak	92.70	100	Horizontal	Pass
2**	2969.300	37.08	-5.61	54.0	-16.92	AV	92.70	100	Horizontal	Pass
3	5102.000	44.87	-3.46	74.0	-29.13	Peak	173.50	100	Horizontal	Pass
3**	5102.000	35.89	-3.46	54.0	-18.11	AV	173.50	100	Horizontal	Pass
4	9321.850	47.54	20.39	74.0	-26.46	Peak	34.80	100	Horizontal	Pass
4**	9321.850	39.88	20.39	54.0	-14.12	AV	34.80	100	Horizontal	Pass
5	12529.200	50.41	21.62	74.0	-23.59	Peak	219.50	100	Horizontal	Pass
5**	12529.200	42.61	21.62	54.0	-11.39	AV	219.50	100	Horizontal	Pass
6	17450.588	49.77	26.30	74.0	-24.23	Peak	76.60	100	Horizontal	Pass
6**	17450.588	41.28	26.30	54.0	-12.72	AV	76.60	100	Horizontal	Pass

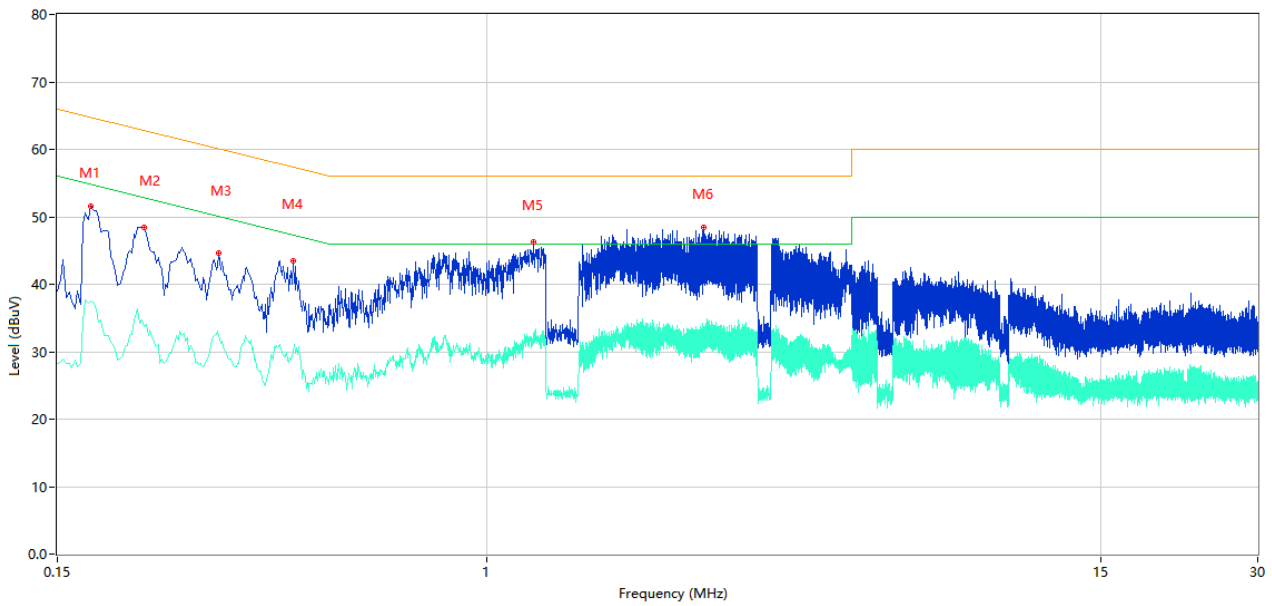
A.2 Conducted Emission

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

Test Data and Plots

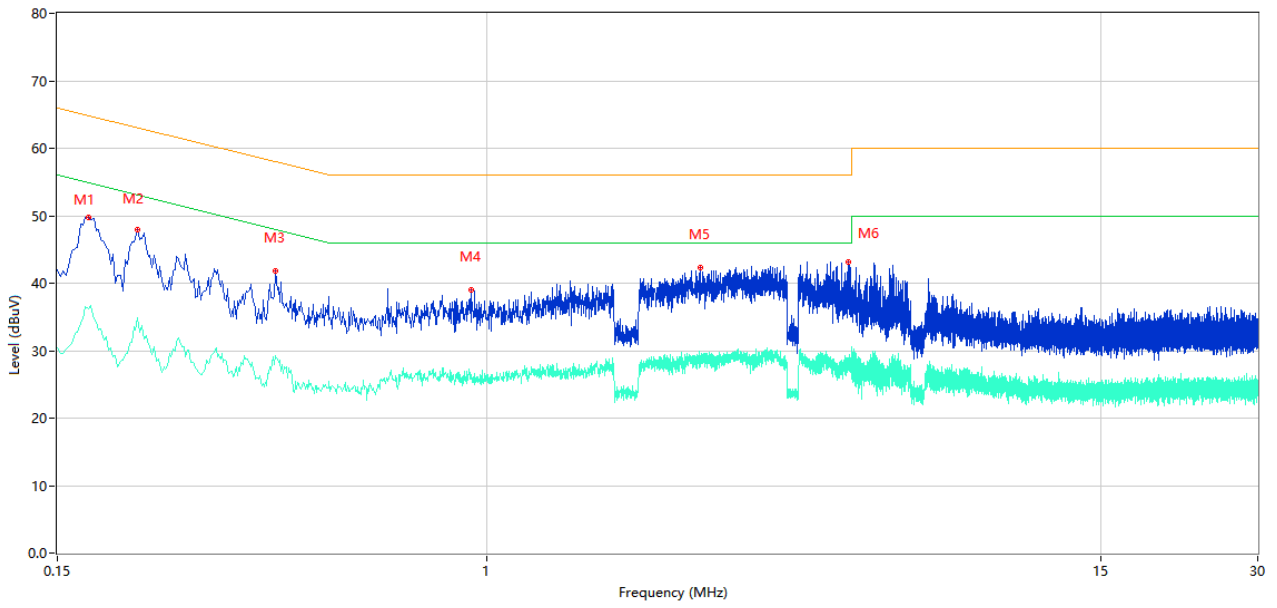
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.174	51.55	10.39	64.77	-13.22	Peak	L	Pass
1**	0.174	37.54	10.39	54.77	-17.23	AV	L	Pass
2	0.220	48.40	10.37	62.82	-14.42	Peak	L	Pass
2**	0.220	33.78	10.37	52.82	-19.04	AV	L	Pass
3	0.306	44.59	10.33	60.08	-15.49	Peak	L	Pass
3**	0.306	32.33	10.33	50.08	-17.75	AV	L	Pass
4	0.424	43.53	10.31	57.37	-13.84	Peak	L	Pass
4**	0.424	29.85	10.31	47.37	-17.52	AV	L	Pass
5	1.224	46.23	10.25	56.00	-9.77	Peak	L	Pass
5**	1.224	31.22	10.25	46.00	-14.78	AV	L	Pass
6	2.598	48.39	10.28	56.00	-7.61	Peak	L	Pass
6**	2.598	33.68	10.28	46.00	-12.32	AV	L	Pass

A.2.2 N Phase

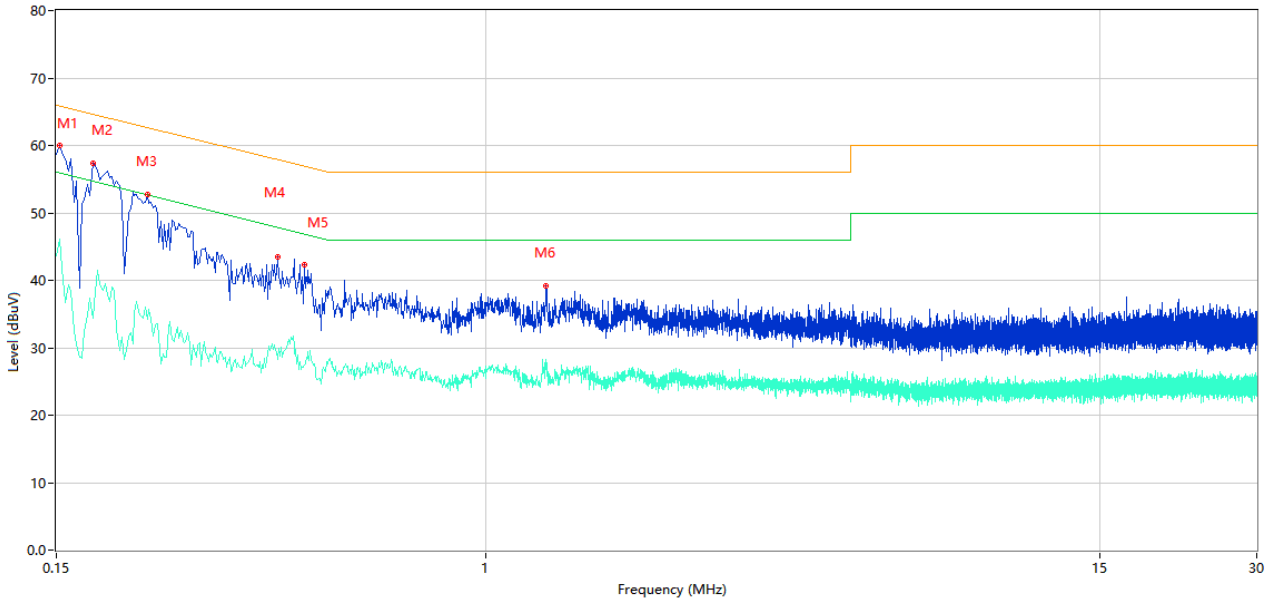


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	49.71	10.40	64.86	-15.15	Peak	N	Pass
1**	0.172	36.13	10.40	54.86	-18.73	AV	N	Pass
2	0.214	47.95	10.38	63.05	-15.10	Peak	N	Pass
2**	0.214	34.89	10.38	53.05	-18.16	AV	N	Pass
3	0.392	41.80	10.30	58.02	-16.22	Peak	N	Pass
3**	0.392	29.30	10.30	48.02	-18.72	AV	N	Pass
4	0.930	39.04	10.24	56.00	-16.96	Peak	N	Pass
4**	0.930	26.19	10.24	46.00	-19.81	AV	N	Pass
5	2.558	42.34	10.27	56.00	-13.66	Peak	N	Pass
5**	2.558	29.21	10.27	46.00	-16.79	AV	N	Pass
6	4.916	43.09	10.31	56.00	-12.91	Peak	N	Pass
6**	4.916	28.42	10.31	46.00	-17.58	AV	N	Pass

Test Data and Plots

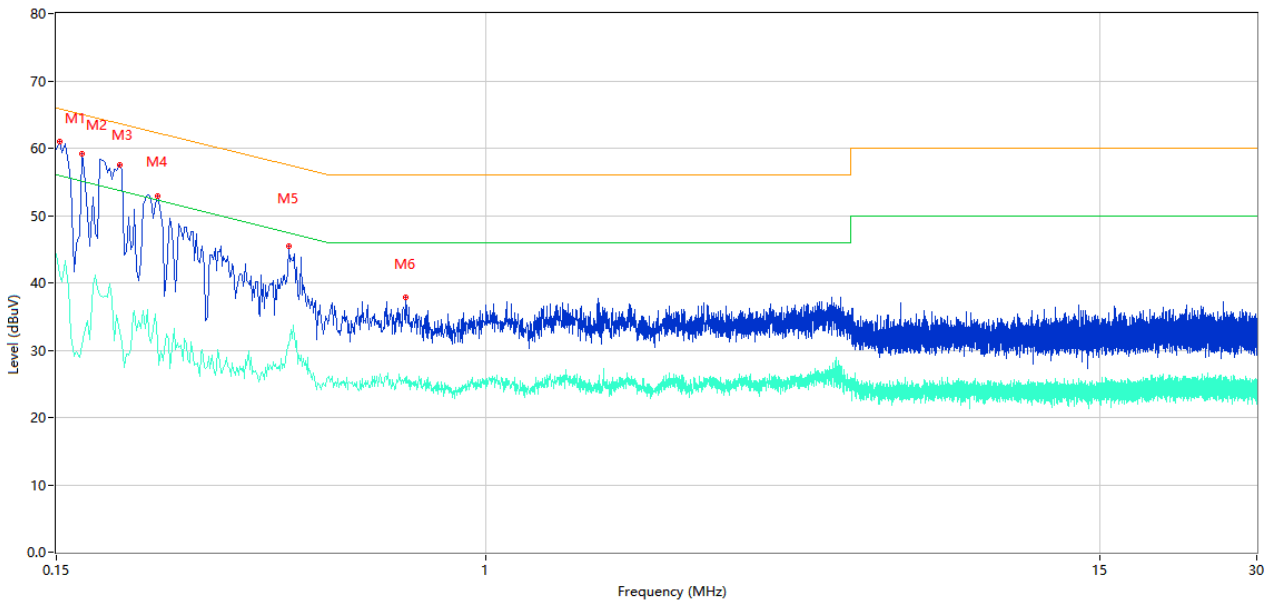
The USB Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	60.03	10.41	65.89	-5.86	Peak	L	Pass
1**	0.152	46.13	10.41	55.89	-9.76	AV	L	Pass
2	0.176	57.34	10.39	64.67	-7.33	Peak	L	Pass
2**	0.176	34.38	10.39	54.67	-20.29	AV	L	Pass
3	0.224	52.73	10.37	62.67	-9.94	Peak	L	Pass
3**	0.224	34.25	10.37	52.67	-18.42	AV	L	Pass
4	0.398	43.42	10.31	57.90	-14.48	Peak	L	Pass
4**	0.398	28.31	10.31	47.90	-19.59	AV	L	Pass
5	0.448	42.25	10.30	56.91	-14.66	Peak	L	Pass
5**	0.448	27.51	10.30	46.91	-19.40	AV	L	Pass
6	1.304	39.17	10.25	56.00	-16.83	Peak	L	Pass
6**	1.304	28.23	10.25	46.00	-17.77	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	60.98	10.41	65.89	-4.91	Peak	N	Pass
1**	0.152	41.16	10.41	55.89	-14.73	AV	N	Pass
2	0.168	59.15	10.40	65.06	-5.91	Peak	N	Pass
2**	0.168	30.73	10.40	55.06	-24.33	AV	N	Pass
3	0.198	57.56	10.38	63.69	-6.13	Peak	N	Pass
3**	0.198	32.70	10.38	53.69	-20.99	AV	N	Pass
4	0.234	52.87	10.35	62.31	-9.44	Peak	N	Pass
4**	0.234	31.30	10.35	52.31	-21.01	AV	N	Pass
5	0.418	45.47	10.31	57.49	-12.02	Peak	N	Pass
5**	0.418	30.82	10.31	47.49	-16.67	AV	N	Pass
6	0.702	37.87	10.26	56.00	-18.13	Peak	N	Pass
6**	0.702	25.87	10.26	46.00	-20.13	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2110678-AE.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2110678-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2110678-AI.PDF".

--END OF REPORT--