

FCC

EMC

TEST REPORT

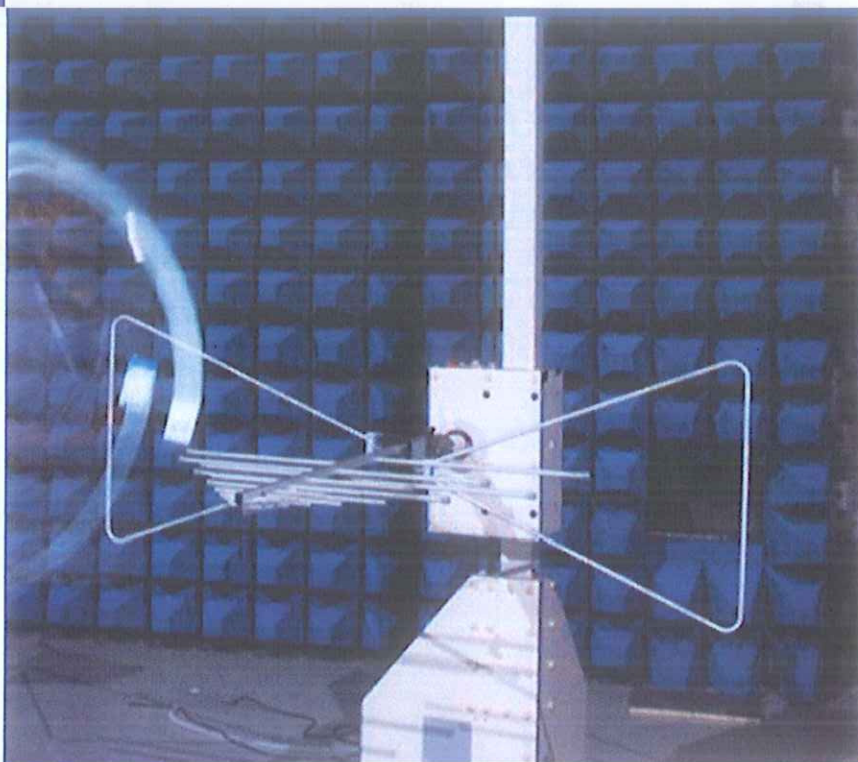
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Rugged PDA

ISSUED TO
Winmate Inc.

9F, No. 111-6, Shing-De Road, San-Chung District, New Taipei City
24158, Taiwan



Tested by: Zhang Yanqing

Zhang Yanqing
(Engineer)

Date Jan. 17, 2017

Approved by: Wei Yanquan

Wei Yanquan
(Chief Engineer)

Date Jan. 17, 2017



Report No.: BL-SZ16B0008-401

EUT Name: Rugged PDA

Model Name: E500RM8, E500XXXXXXXXXX

Brand Name: Winmate

Test Standard: 47 CFR Part 15 Subpart B

Test Conclusion: Pass

Test Date: Dec. 14, 2016 ~ Dec. 15, 2016

Date of Issue: Jan. 19, 2017

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jan. 19, 2017</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	Factory Information	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Ancillary Equipment	6
2.6	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Verdict	7
3.3	Test Uncertainty	7
4	GENERAL TEST CONFIGURATIONS	8
4.1	Test Environments	8
4.2	Test Equipment List	8
4.3	Test Enclosure list	9
4.4	Test Configurations	10
4.5	Test Setups	11
4.6	Test Conditions	13
5	TEST ITEMS	14
5.1	Emission Tests	14
ANNEX A	TEST RESULTS	16

A.1 Radiated Emission 16

A.2 Conducted Emission 20

ANNEX B TEST SETUP PHOTOS 22

ANNEX C EUT EXTERNAL PHOTOS 22

ANNEX D EUT INTERNAL PHOTOS 22

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
Accreditation Certificate	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
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~25°C
Ambient Relative Humidity	45% - 55%
Ambient Pressure	100 kPa - 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v5.3.
- (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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Winmate Inc.
Address	9F, No. 111-6, Shing-De Road, San-Chung District, New Taipei City 24158, Taiwan

2.2 Manufacturer Information

Manufacturer	Winmate Inc.
Address	9F, No. 111-6, Shing-De Road, San-Chung District, New Taipei City 24158, Taiwan

2.3 Factory Information

Factory	Winmate Inc.
Address	9F, No. 111-6, Shing-De Road, San-Chung District, New Taipei City 24158, Taiwan

2.4 General Description for Equipment under Test (EUT)

EUT Name	Rugged PDA
Model Name Under Test	E500RM8
Series Model Name	E500RM8, E500XXXXXXXXXX
Description of Model name differentiation	The Circuit, PCB Layout, Electrical Parts and Outlook of E500XXXXXXXXXX are identical to E500RM8. E500XXXXXXXXXX(X=A-Z, 0-9, a-z, "-", "/", "\" or blank for marketing purpose only, and no impact safety related constructions or critical components such as PCB, circuit and so on).
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
The Highest Speed of Processor	N/A
Network and Wireless connectivity	Bluetooth, WIFI, GPS

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	Winmate Inc.
	Model No.	E430
	Capacitance	3900 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V
Ancillary Equipment 2	Adapter	
	Brand Name	ENG
	Model Name	6A-181WP05
	Rated Input	100-240 V~, 50/60 Hz, 0.6 A
	Rated Output	5 V $\overline{-}$, 3.0 A
Ancillary Equipment 3	USB Cable	
	Length	1.2 m
Ancillary Equipment 4	TF Card	

2.6 Technical Information

N/A

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-15 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)	3.23 dB
Radiated emissions (9 kHz-30 MHz)	3.97 dB
Radiated emissions (30 MHz-1 GHz)	4.30 dB
Radiated emissions (1 GHz-18 GHz)	4.81 dB
Radiated emissions (18 GHz-26.5 GHz)	5.71 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~26°C	AC 120 V/60 Hz	50%-55%	100 to 102 kPa

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHW ARZ	ESRP	101036	2016.07.05	2017.07.04	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	9163-977	2016.07.19	2018.07.18	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21	<input type="checkbox"/>
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60* 7.35m	N/A	2016.08.09	2018.08.08	<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency Above 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2016.09.09	2017.09.08	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21	<input type="checkbox"/>
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2015.02.28	2017.02.27	<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2016.07.05	2017.07.04	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2016.07.05	2017.07.04	<input checked="" type="checkbox"/>
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A	<input checked="" type="checkbox"/>

4.3 Test Enclosure list

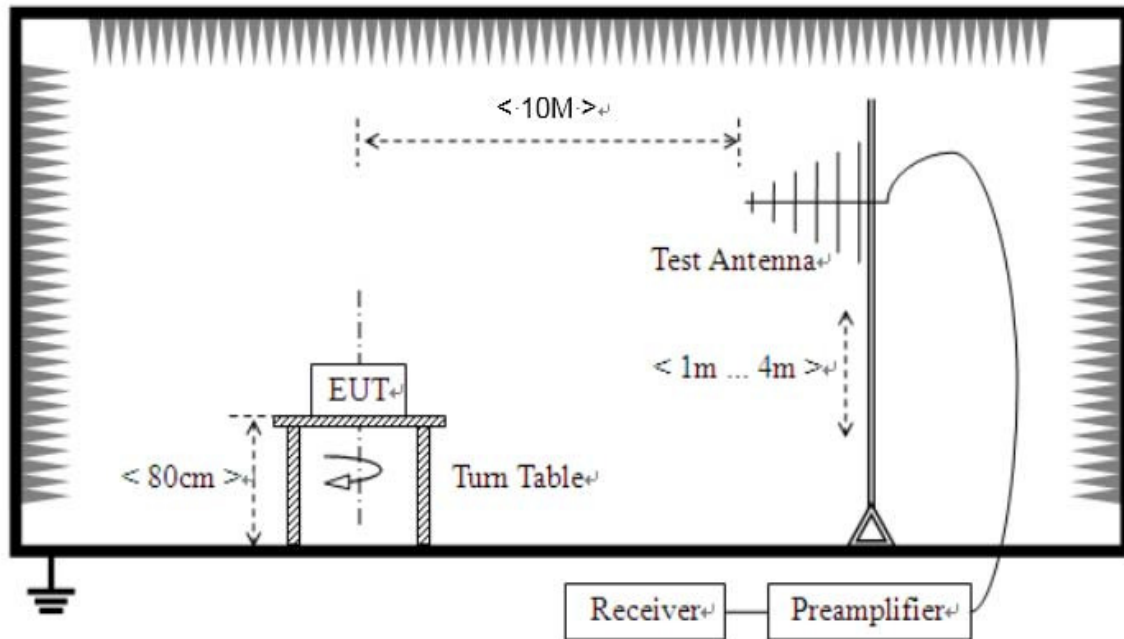
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	<input type="checkbox"/>
Laptop	Apple	A1465	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input 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 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 checked="" type="checkbox"/>
GPS/GLONASS Vector signal generator	R&S	N5172B EXG	N/A	N/A	N/A	<input checked="" type="checkbox"/>
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Earphone	N/A	OPPO	N/A	1.1 m	N/A	<input 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	1.5 m	Shielded with core	<input 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"/>
Smart Card	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 Data Transmission and Video Record test mode</u> EUT + Battery + TF Card + Adapter + USB Cable + Laptop + BT Link + WIFI Link + GPS RX
TC02	<u>The Video Play and Barcode Reader test mode</u> EUT + Battery + TF Card + Adapter + Barcode Reader ON + BT Link + WIFI Link + GPS RX
TC03	<u>The Smart Card Reader test mode</u> EUT + Battery + TF Card + Adapter + Smart Card
TC04	<u>The Idle test mode</u> EUT + Battery + TF Card+ Adapter

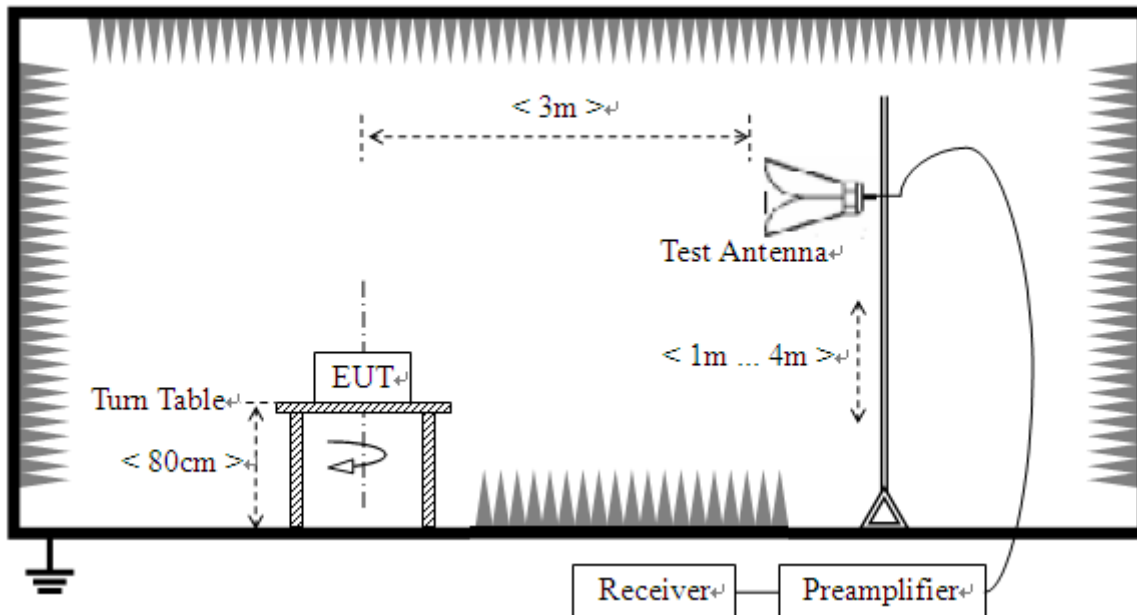
4.5 Test Setups

Test Setup 1



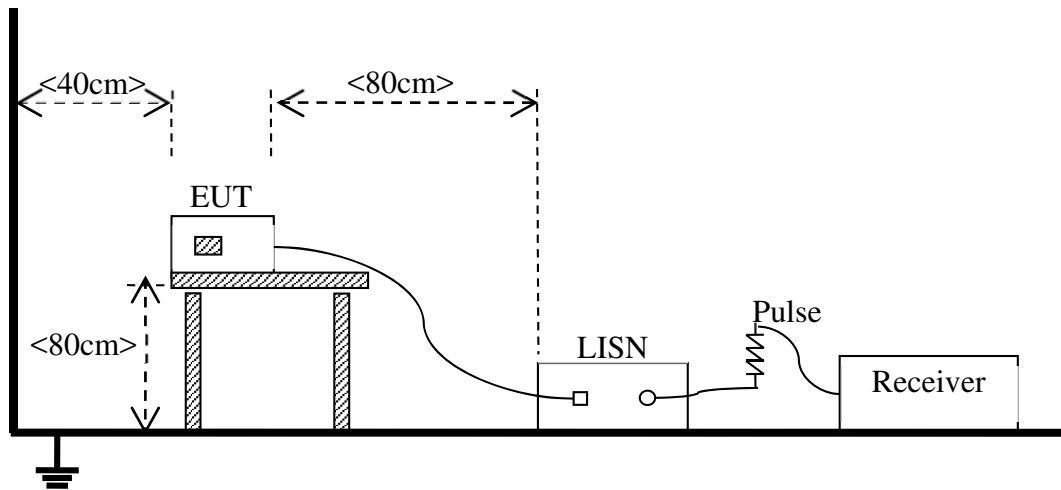
(For Radiated Emission Test (30 MHz-1 GHz))

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~TC04 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC04 ^{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 Data Transmission and Video Record 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 (MHz)	Field Strength ($\mu\text{V/m}$) at 3 m	Field Strength ($\mu\text{V/m}$) at 10 m
30 - 88	100	90
88 - 216	150	150
216 - 960	200	210
Above 960	500	300

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.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 $\text{dBuV/m}@3\text{ m}$ (AV) and 74 $\text{dBuV/m}@3\text{ m}$ (PK)

5.1.1.2 Test Setup

Refer to 4.5 section (test setups1 to test setups2) 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.

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.

ANNEX A TEST RESULTS

A.1 Radiated Emission

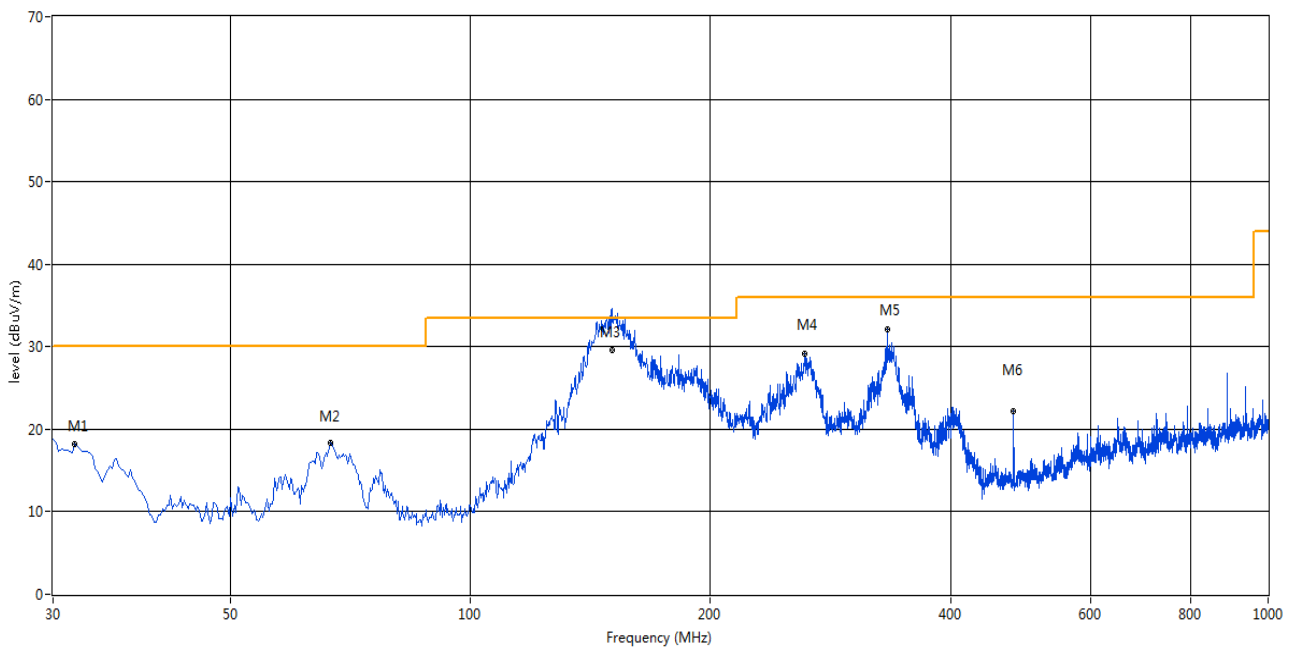
Note 1: The symbol of "--" in the table which means not application.

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

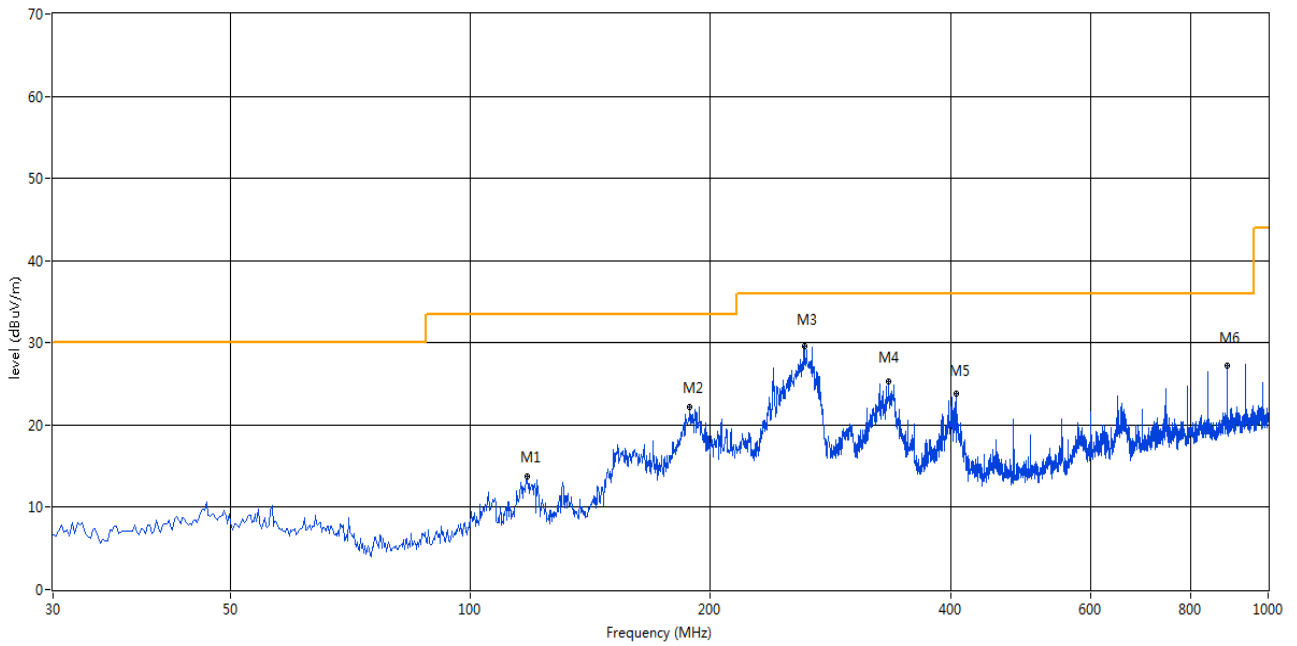
The Data Transmission and Video Record test mode

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



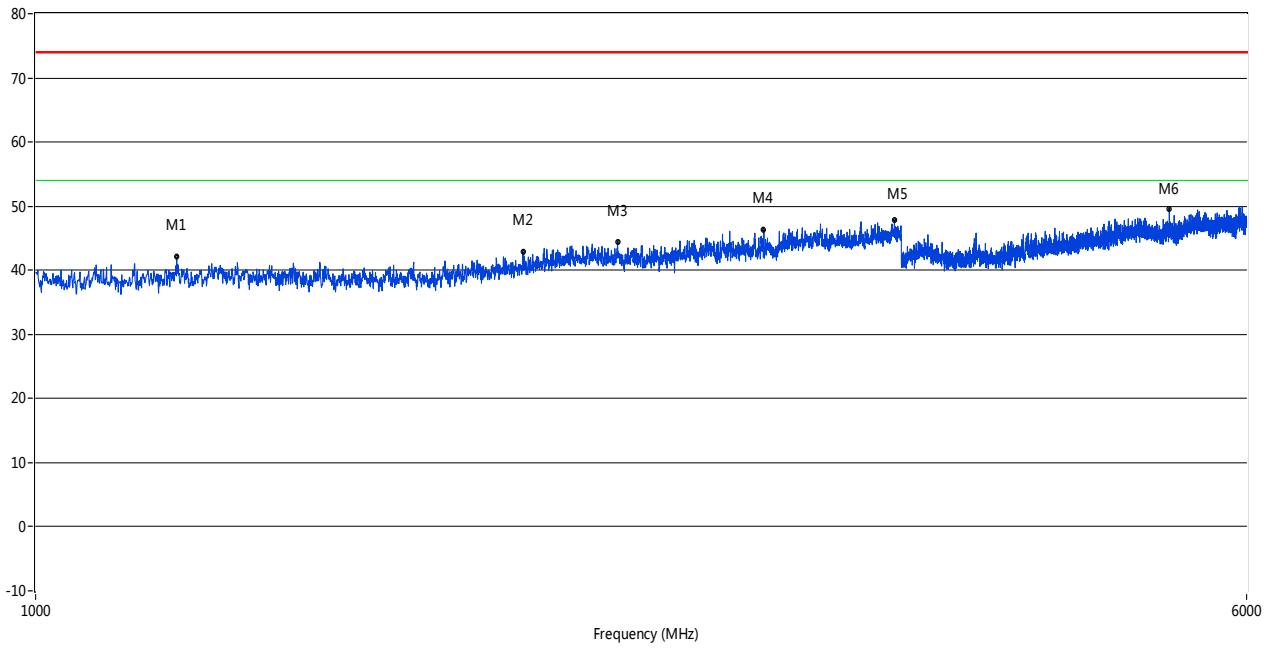
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	31.940	18.14	-16.92	30.0	11.86	Peak	128.00	300	Vertical	Pass
2	66.851	18.35	-16.93	30.0	11.65	Peak	291.00	200	Vertical	Pass
3	150.690	35.79	-19.58	33.5	-2.29	Peak	288.0	141.00	Vertical	N/A
3*	150.690	29.56	-19.58	33.5	3.94	QP	288.00	141.00	Vertical	Pass
4	262.499	29.17	-14.27	36.0	6.83	Peak	205.00	200	Vertical	Pass
5	333.292	32.06	-12.43	36.0	3.94	Peak	326.00	100	Vertical	Pass
6	479.968	22.18	-9.69	36.0	13.82	Peak	22.00	100	Vertical	Pass

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



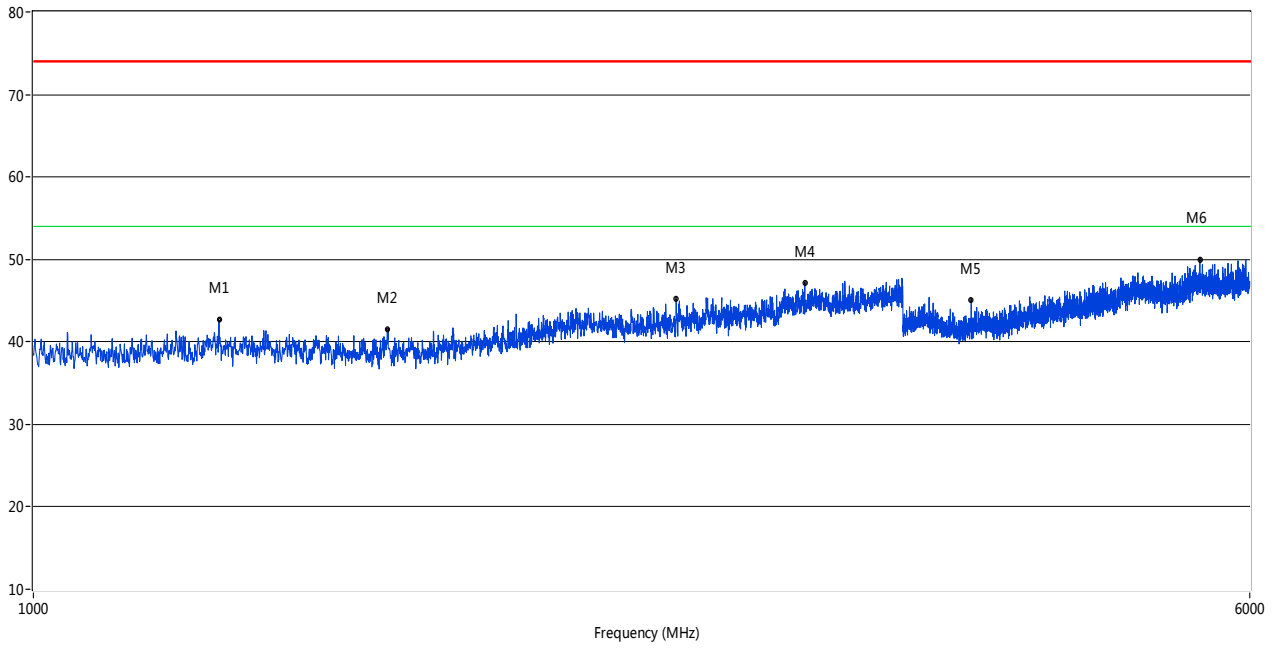
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	118.005	13.83	-17.45	33.5	19.67	Peak	0.00	400	Horizontal	Pass
2	188.313	22.15	-16.87	33.5	11.35	Peak	358.00	100	Horizontal	Pass
3	262.257	29.67	-14.31	36.0	6.33	Peak	360.00	100	Horizontal	Pass
4	334.504	25.34	-12.32	36.0	10.66	Peak	113.00	100	Horizontal	Pass
5	406.023	23.89	-10.60	36.0	12.11	Peak	120.00	100	Horizontal	Pass
6	887.751	27.18	-2.76	36.0	8.82	Peak	229.00	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1232.050	42.06	-3.20	74.0	31.94	Peak	360.00	100	Vertical	Pass
2	2056.250	42.89	-0.09	74.0	31.11	Peak	335.20	100	Vertical	Pass
3	2365.650	44.43	1.91	74.0	29.57	Peak	139.60	100	Vertical	Pass
4	2937.000	46.32	4.08	74.0	27.68	Peak	82.00	100	Vertical	Pass
5	3563.600	47.83	5.37	74.0	26.17	Peak	220.00	100	Vertical	Pass
6	5352.600	49.56	11.78	74.0	24.44	Peak	152.90	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1314.600	42.65	-2.11	74.0	31.35	Peak	48.30	100	Horizontal	Pass
2	1684.450	41.57	-0.71	74.0	32.43	Peak	222.30	100	Horizontal	Pass
3	2578.200	45.16	2.18	74.0	28.84	Peak	222.30	100	Horizontal	Pass
4	3115.100	47.21	4.67	74.0	26.79	Peak	210.70	100	Horizontal	Pass
5	3981.000	45.12	8.23	74.0	28.88	Peak	199.70	100	Horizontal	Pass
6	5575.200	49.95	11.68	74.0	24.05	Peak	358.50	100	Horizontal	Pass

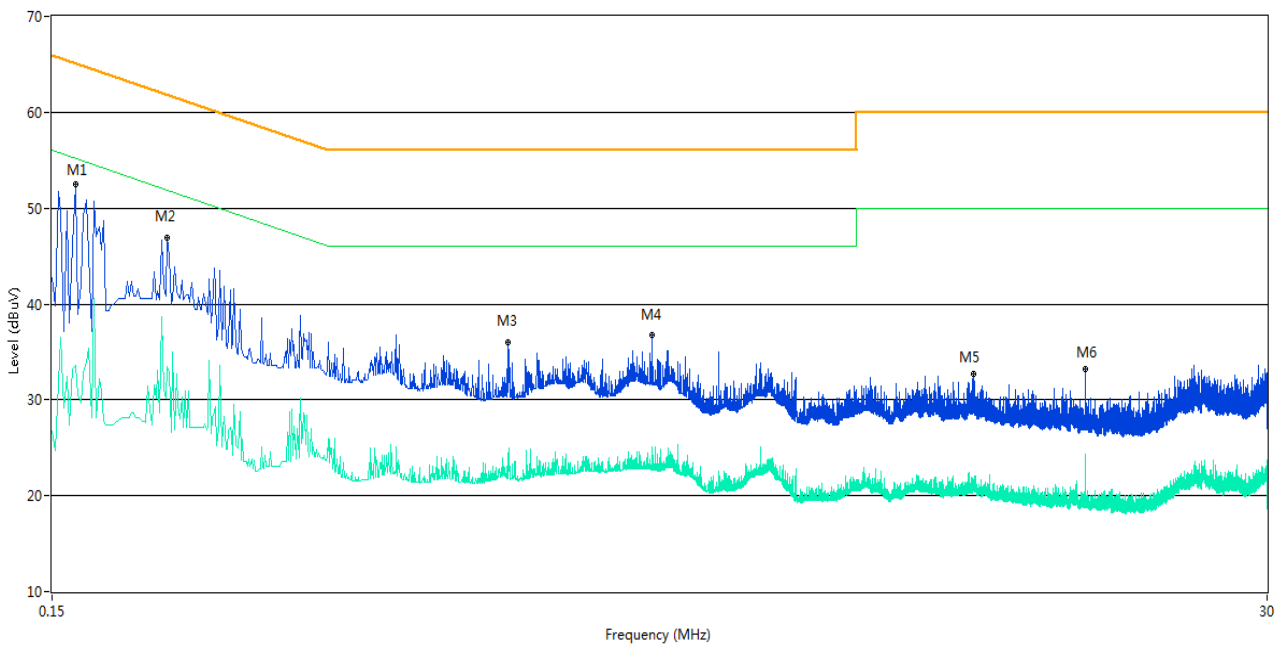
A.2 Conducted Emission

Test Data and Plots

The Data Transmission and Video Record test mode

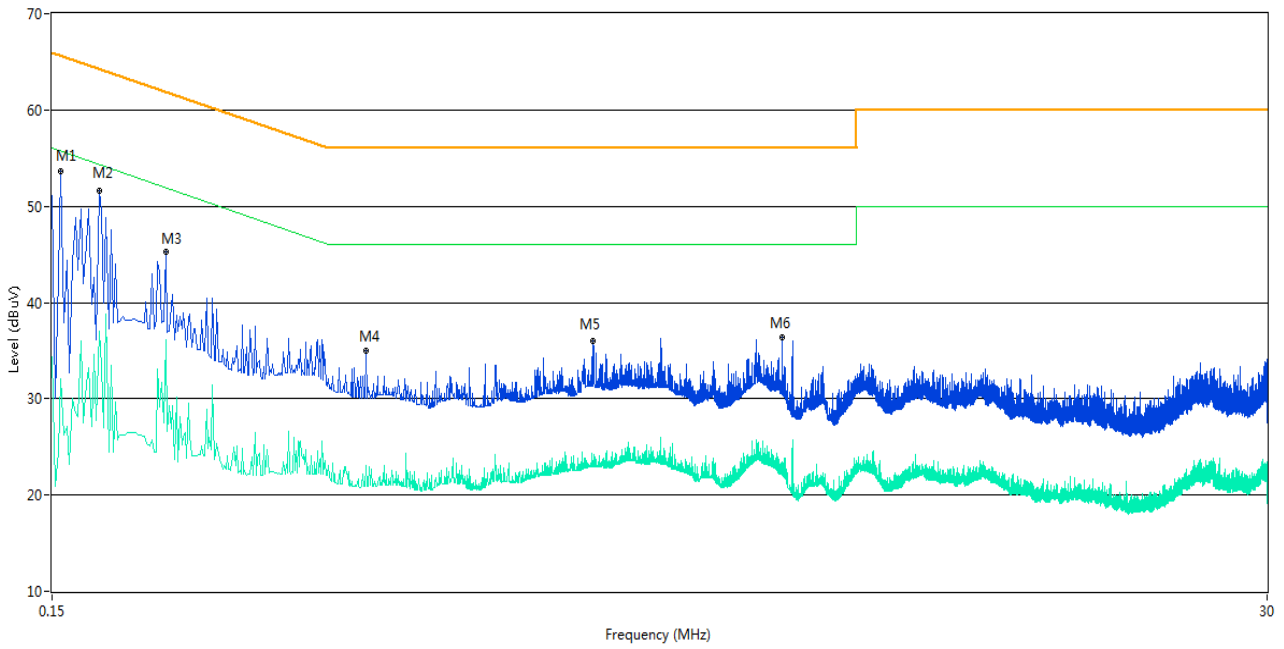
Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst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

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	52.5	11.00	65.2	12.70	Peak	L Line	Pass
1**	0.166	33.6	11.00	55.2	21.60	AV	L Line	Pass
2	0.248	46.9	11.00	61.8	14.90	Peak	L Line	Pass
2**	0.248	33.5	11.00	51.8	18.30	AV	L Line	Pass
3	1.096	36.0	11.00	56.0	20.00	Peak	L Line	Pass
3**	1.096	24.0	11.00	46.0	22.00	AV	L Line	Pass
4	2.052	36.7	11.00	56.0	19.30	Peak	L Line	Pass
4**	2.052	25.0	11.00	46.0	21.00	AV	L Line	Pass
5	8.350	32.7	11.00	60.0	27.30	Peak	L Line	Pass
5**	8.350	19.7	11.00	50.0	30.30	AV	L Line	Pass
6	13.610	33.2	11.00	60.0	26.80	Peak	L Line	Pass
6**	13.610	24.4	11.00	50.0	25.60	AV	L Line	Pass

A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	53.7	11.00	65.7	12.00	Peak	N Line	Pass
1**	0.156	32.1	11.00	55.7	23.60	AV	N Line	Pass
2	0.184	51.6	11.00	64.3	12.70	Peak	N Line	Pass
2**	0.184	37.0	11.00	54.3	17.30	AV	N Line	Pass
3	0.246	45.2	11.00	61.9	16.70	Peak	N Line	Pass
3**	0.246	36.1	11.00	51.9	15.80	AV	N Line	Pass
4	0.590	35.0	11.00	56.0	21.00	Peak	N Line	Pass
4**	0.590	23.0	11.00	46.0	23.00	AV	N Line	Pass
5	1.586	36.0	11.00	56.0	20.00	Peak	N Line	Pass
5**	1.586	23.5	11.00	46.0	22.50	AV	N Line	Pass
6	3.620	36.4	11.00	56.0	19.60	Peak	N Line	Pass
6**	3.620	23.4	11.00	46.0	22.60	AV	N Line	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ16B0008-AE.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ16B0008-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ16B0008-AI.PDF".

--END OF REPORT--