

FCC

EMC

TEST REPORT

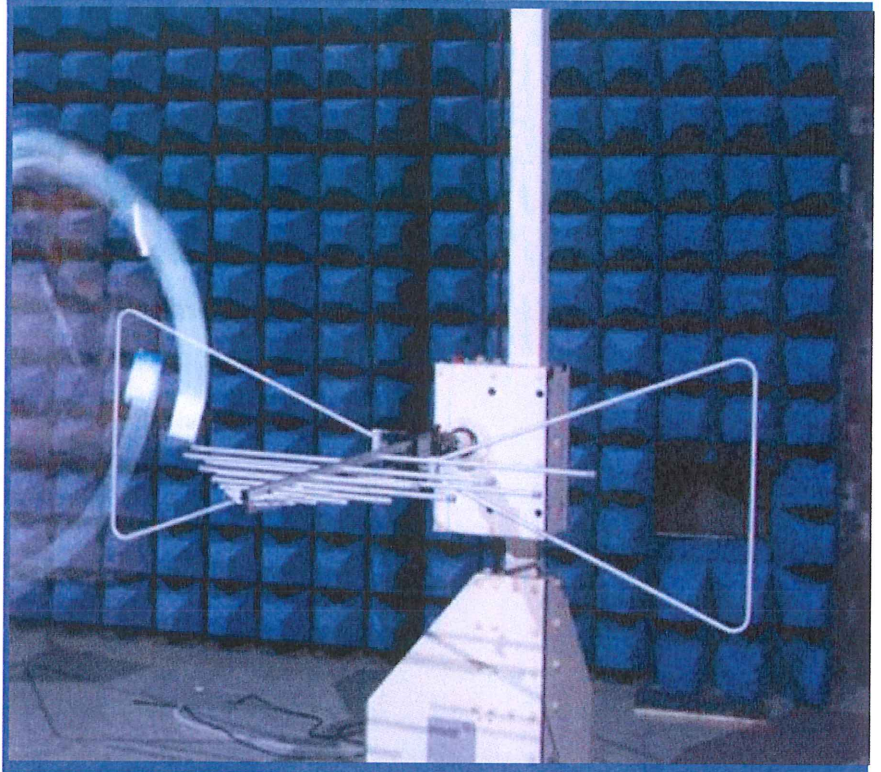
ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**OTE940**

ISSUED TO  
GN Audio A/S

Lautrupbjerg 7, 2750 Ballerup, Denmark



Tested by: Xia Long  
Xia Long  
(Engineer)

Date: 10.26.11.2018

Approved by: Wei Yanquan  
Wei Yanquan  
(Chief Engineer)

Date: Oct. 11, 2018

Report No.: BL-SZ1850488-401  
EUT Name: OTE940  
Model Name: OTE940  
Brand Name: BlueParrott  
Test Standard: 47 CFR Part 15 Subpart B

Test Conclusion: Pass  
Test Date: Jun. 20, 2018 ~ Jun. 29, 2018  
Date of Issue: Oct. 11, 2018

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### Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jul. 25, 2018</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Oct. 11, 2018</u>	<u>Added the USB test mode in section 4.4 Test Configurations and data in ANNEX A TEST RESULTS.</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
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 is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01.</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 to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

## 1.4 Announce

- (1) The test report refer to the BALUN report mode v6.6.
- (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	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark

### 2.2 Manufacturer Information

Manufacturer	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark

### 2.3 Factory Information

Factory	Wata Electronics Co., Ltd.
Address	No.142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong Province, P.R.China

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	OTE940
Model Name Under Test	OTE940
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	CSR8670
Software Version	ADK 4.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

### 2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	PL602030
	Serial No.	N/A
	Capacity	300 mAh
	Rated Voltage	3.7 V
Ancillary Equipment 2	Limit Charge Voltage	4.2 V
	USB Cable	
	Length (Approx.)	0.8 m

### 2.6 Technical Information

Network and Wireless connectivity	Bluetooth, NFC
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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 (10-1-16 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 (30 MHz-1 GHz)	4.30 dB
Radiated emissions (1 GHz-18 GHz)	4.81 dB
Radiated emissions (18 GHz-40 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 to 25°C	DC 3.7 V from Battery or DC 5 V from Laptop	50% to 55%	100 kPa 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&SCHWARZ	ESRP	101036	2018.06.13.	2019.06.12	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-977	2017.07.22	2019.07.21	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1600	2018.07.11	2020.07.10	<input type="checkbox"/>
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20	<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	2017.11.08	2018.11.07	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2017.07.22	2019.07.21	<input type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10	<input checked="" type="checkbox"/>
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20	<input checked="" type="checkbox"/>

Conducted Emission Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2018.06.13.	2019.06.12	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2018.06.13.	2019.06.12	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NNLK 8129	8129-462	2017.11.08	2018.11.07	<input type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-509	2018.06.13.	2019.06.12	<input type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-510	2018.06.13.	2019.06.12	<input type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2017.12.05	2018.12.04	<input 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 checked="" type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Mouse	Logitech	M100	N/A	N/A	N/A	<input checked="" 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 checked="" type="checkbox"/>
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	<input type="checkbox"/>
Wireless Communication s Test Set	R&S	CMW500	142028	N/A	Cal. Due 2018.06.11	<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 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"/>
Display Screen	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Computer	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>

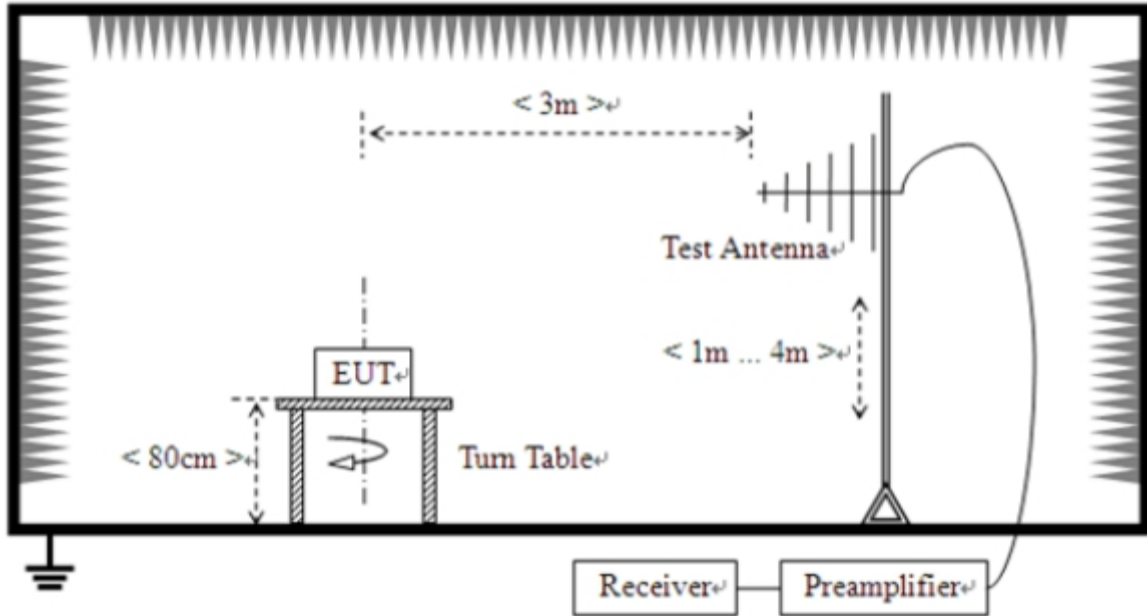


## 4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The BT Audio Play Test Mode</u> EUT + Battery + Phone + BT Link
TC02	<u>The Charging Test Mode</u> EUT + Battery + USB Cable + Laptop
TC03	<u>The NFC Test Mode</u> EUT + Battery + Phone + NFC Link
TC04	<u>The USB Test Mode</u> EUT+USB Cable + Battery + Mouse + Keyboard + Computer + Display Screen + Printer

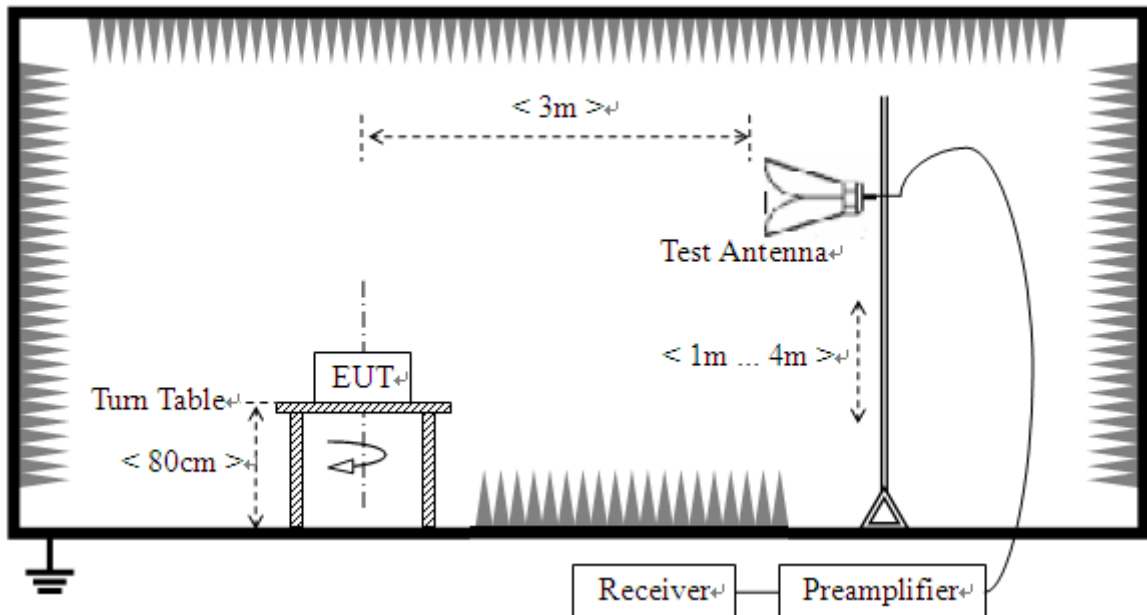
## 4.5 Test Setups

### Test Setup 1

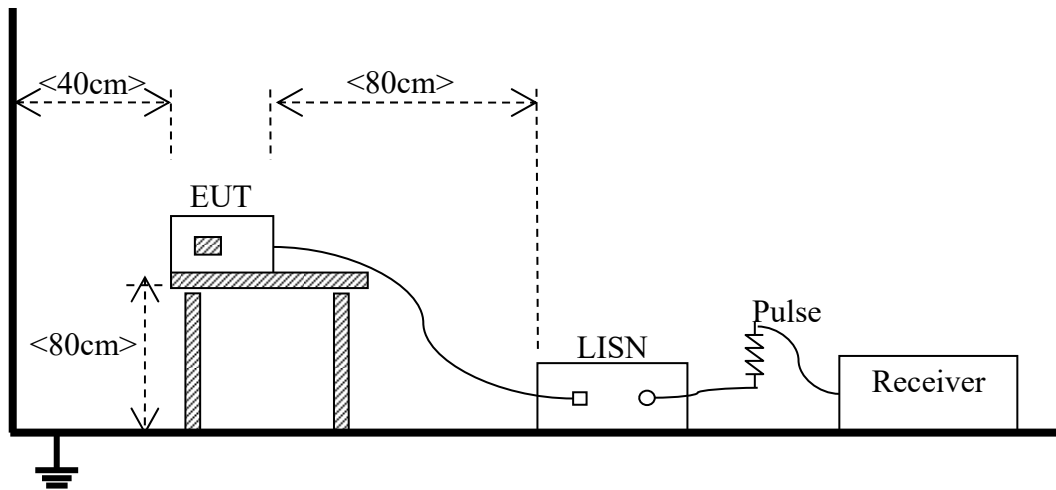


(For Radiated Emission Test (30 MHz-1 GHz))

### 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 <sup>Note</sup>
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC04 <sup>Note</sup>

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 Charging test mode and The USB 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.

##### 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 $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ 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  $\Omega$ /50  $\mu$ 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

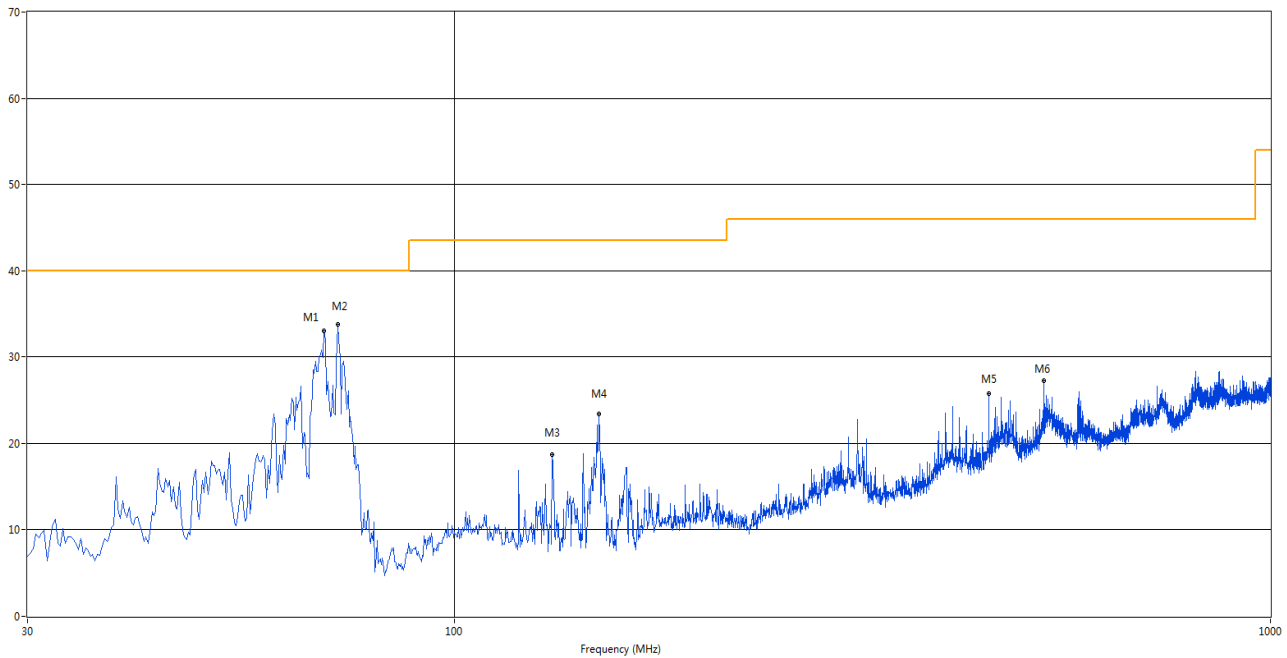
Note 1: The symbol of "--" in the table which means not application.

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

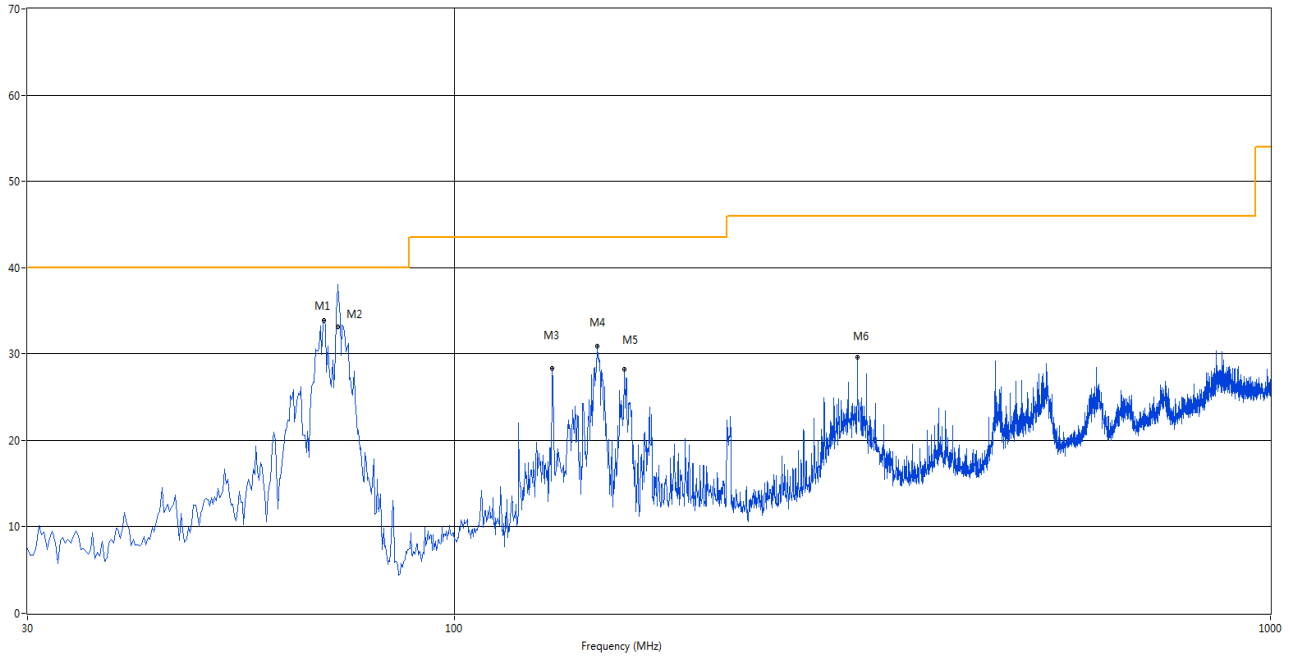
#### The Charging Test Mode

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



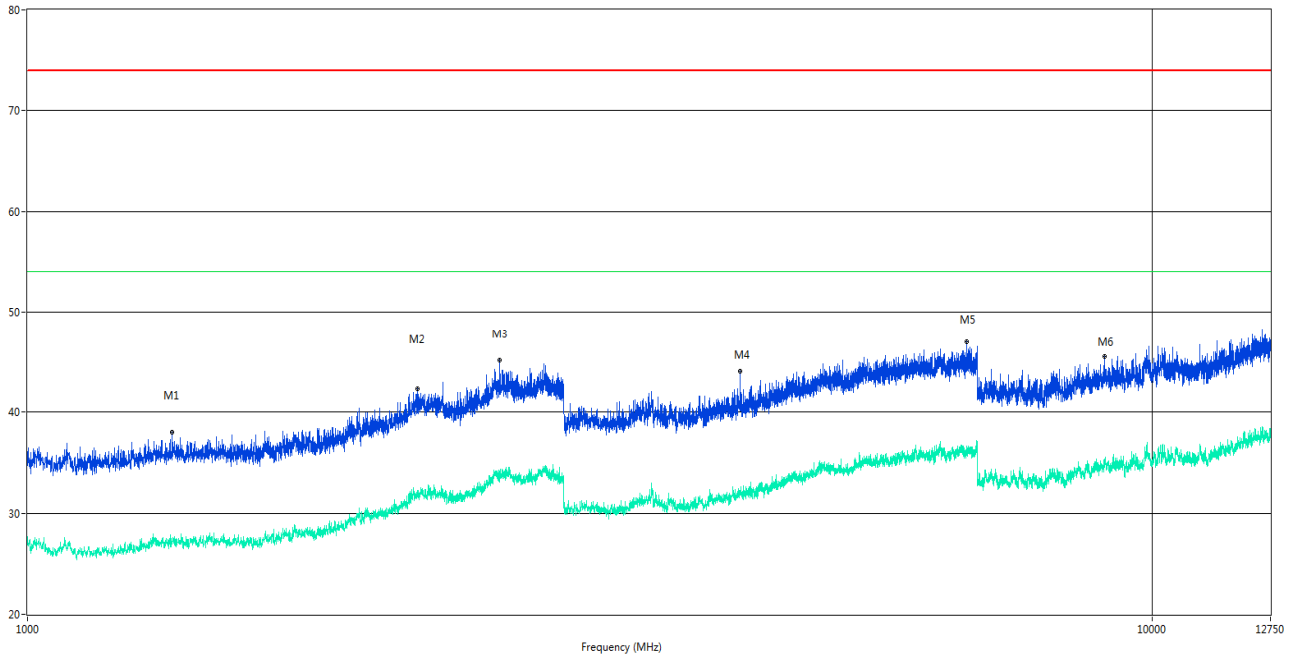
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	69.285	33.12	-26.79	40.0	6.88	Peak	249.00	100	Vertical	Pass
2	71.952	33.79	-27.88	40.0	6.21	Peak	34.30	200	Vertical	Pass
3	131.850	18.68	-27.51	43.5	24.82	Peak	71.70	100	Vertical	Pass
4	150.523	23.36	-27.75	43.5	20.14	Peak	289.20	100	Vertical	Pass
5	451.950	25.74	-17.41	46.0	20.26	Peak	0.00	100	Vertical	Pass
6	528.095	27.22	-15.80	46.0	18.78	Peak	138.50	100	Vertical	Pass

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



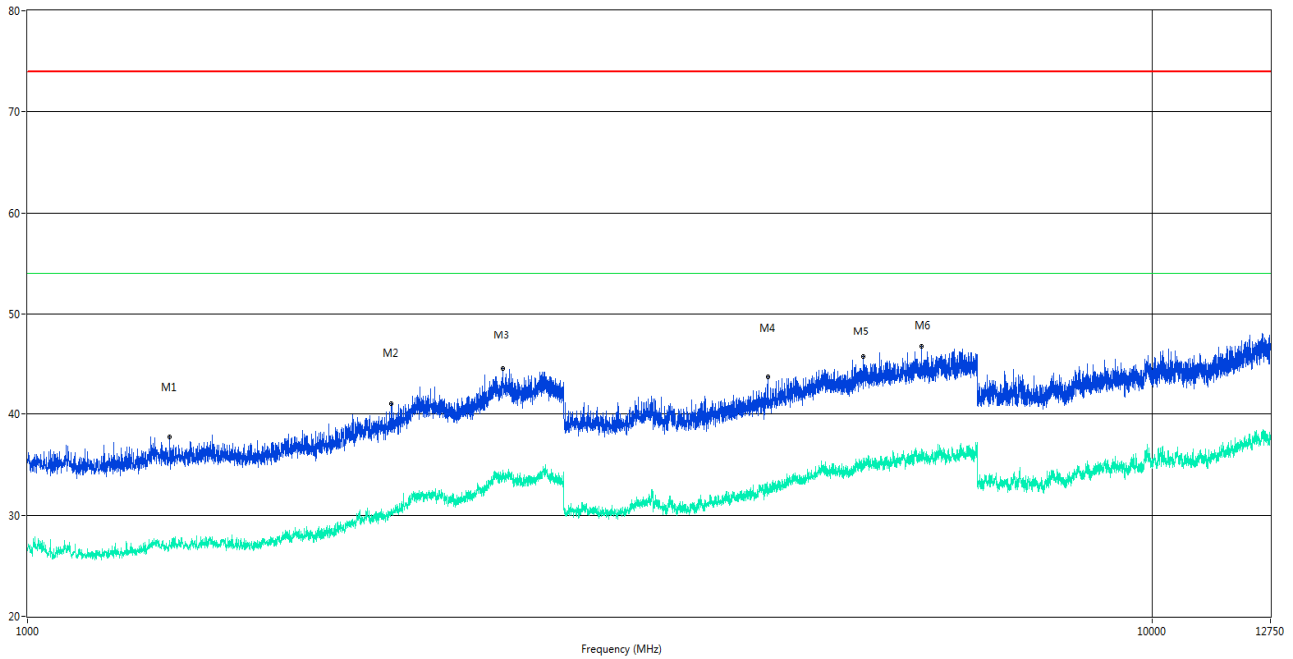
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	69.285	33.93	-26.79	40.0	6.07	Peak	7.40	200	Horizontal	Pass
2	71.998	39.89	-27.88	40.0	0.11	Peak	20.80	198	Horizontal	N/A
2*	71.998	33.17	-27.88	40.0	6.83	QP	20.80	198	Horizontal	Pass
3	131.850	28.30	-27.51	43.5	15.20	Peak	360.00	200	Horizontal	Pass
4	149.553	30.88	-27.81	43.5	12.62	Peak	360.00	200	Horizontal	Pass
5	161.678	28.13	-27.15	43.5	15.37	Peak	360.00	200	Horizontal	Pass
6	312.027	29.51	-21.10	46.0	16.49	Peak	332.20	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1345.000	27.2	-12.83	54.0	26.80	AV	352.60	100	Vertical	Pass
1	1345.000	38.06	-12.83	74.0	35.94	Peak	352.60	100	Vertical	Pass
2**	2221.500	31.8	-8.58	54.0	22.20	AV	334.20	100	Vertical	Pass
2	2221.500	42.30	-8.58	74.0	31.70	Peak	334.20	100	Vertical	Pass
3**	2630.500	33.9	-5.68	54.0	20.10	AV	113.30	100	Vertical	Pass
3	2630.500	45.17	-5.68	74.0	28.83	Peak	113.30	100	Vertical	Pass
4**	4301.000	32.0	-6.71	54.0	22.00	AV	0.00	100	Vertical	Pass
4	4301.000	44.06	-6.71	74.0	29.94	Peak	0.00	100	Vertical	Pass
5**	6843.000	36.6	-1.32	54.0	17.40	AV	156.30	100	Vertical	Pass
5	6843.000	47.01	-1.32	74.0	26.99	Peak	156.30	100	Vertical	Pass
6**	9084.375	35.3	14.98	54.0	18.70	AV	105.50	100	Vertical	Pass
6	9084.375	45.51	14.98	74.0	28.49	Peak	105.50	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 12.75 GHz



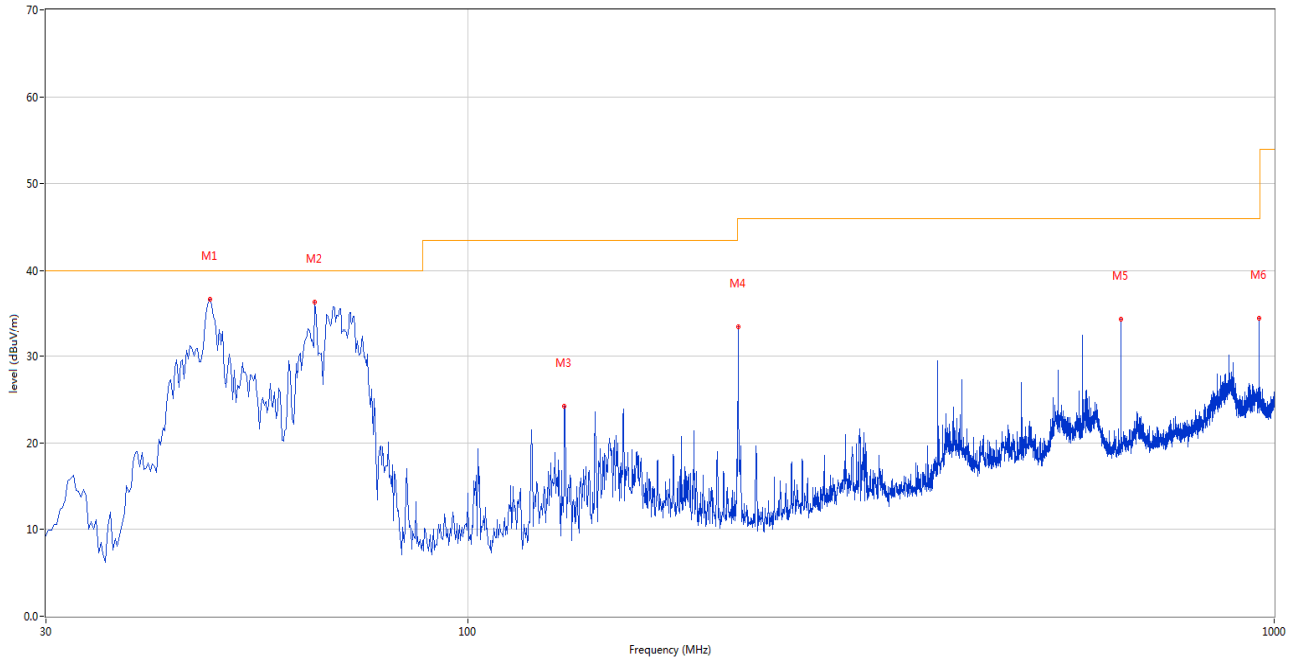
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1337.000	27.5	-12.87	54.0	26.50	AV	360.00	100	Horizontal	Pass
1	1337.000	37.72	-12.87	74.0	36.28	Peak	360.00	100	Horizontal	Pass
2**	2106.500	30.6	-10.29	54.0	23.40	AV	78.10	100	Horizontal	Pass
2	2106.500	41.06	-10.29	74.0	32.94	Peak	78.10	100	Horizontal	Pass
3**	2647.000	34.0	-6.02	54.0	20.00	AV	150.20	100	Horizontal	Pass
3	2647.000	44.48	-6.02	74.0	29.52	Peak	150.20	100	Horizontal	Pass
4**	4558.000	32.3	-6.28	54.0	21.70	AV	136.10	100	Horizontal	Pass
4	4558.000	43.66	-6.28	74.0	30.34	Peak	136.10	100	Horizontal	Pass
5**	5542.000	35.2	-3.31	54.0	18.80	AV	253.20	100	Horizontal	Pass
5	5542.000	45.70	-3.31	74.0	28.30	Peak	253.20	100	Horizontal	Pass
6**	6237.000	36.2	-1.67	54.0	17.80	AV	47.70	100	Horizontal	Pass
6	6237.000	46.73	-1.67	74.0	27.27	Peak	47.70	100	Horizontal	Pass



Test Data and Plots

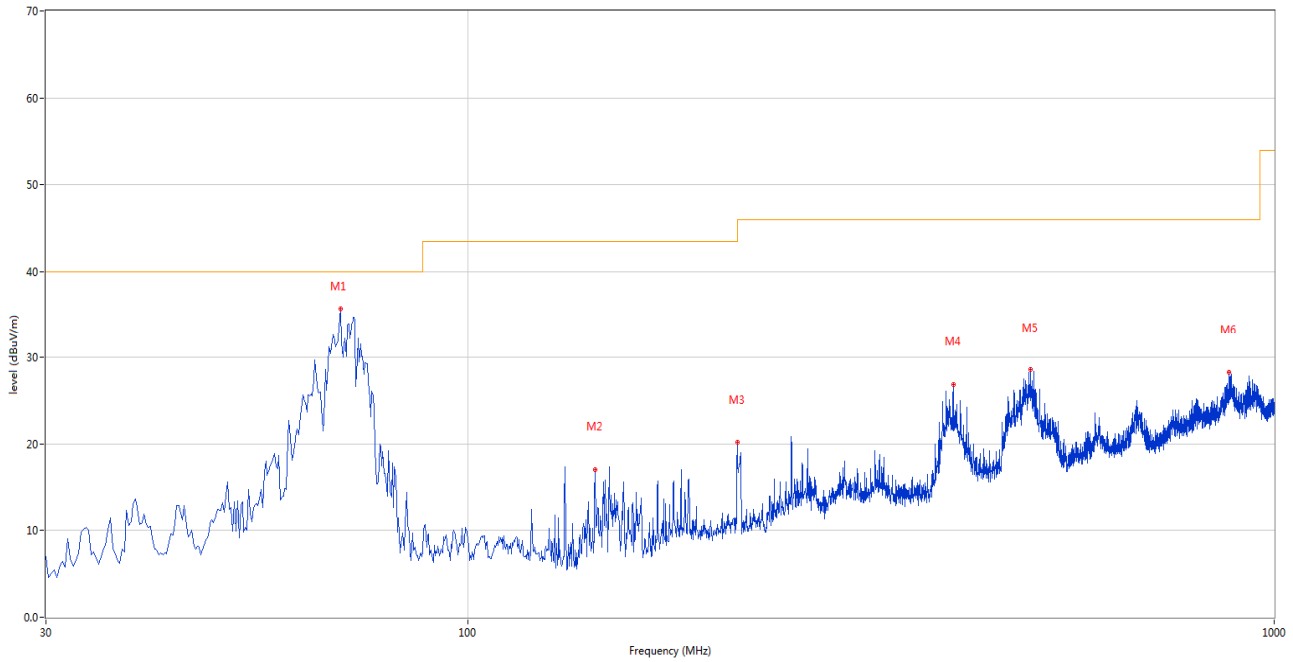
The USB Test Mode

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



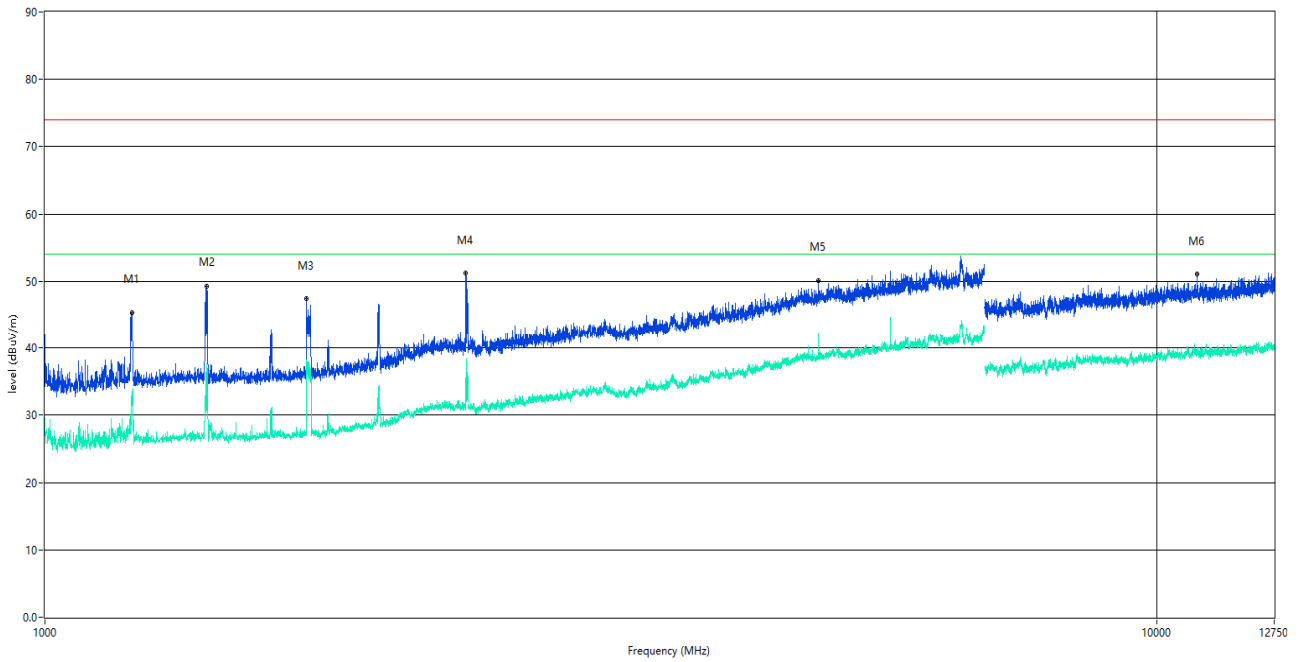
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	47.945	36.71	-23.43	40.0	-3.29	Peak	203.40	100	Vertical	Pass
2	64.677	36.42	-25.25	40.0	-3.58	Peak	60.20	100	Vertical	Pass
3	131.850	24.30	-27.75	43.5	-19.20	Peak	78.30	200	Vertical	Pass
4	216.482	33.54	-24.52	46.0	-12.46	Peak	281.70	100	Vertical	Pass
5	645.222	34.44	-14.41	46.0	-11.56	Peak	281.70	100	Vertical	Pass
6	957.078	34.52	-9.67	46.0	-11.48	Peak	281.70	200	Vertical	Pass

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



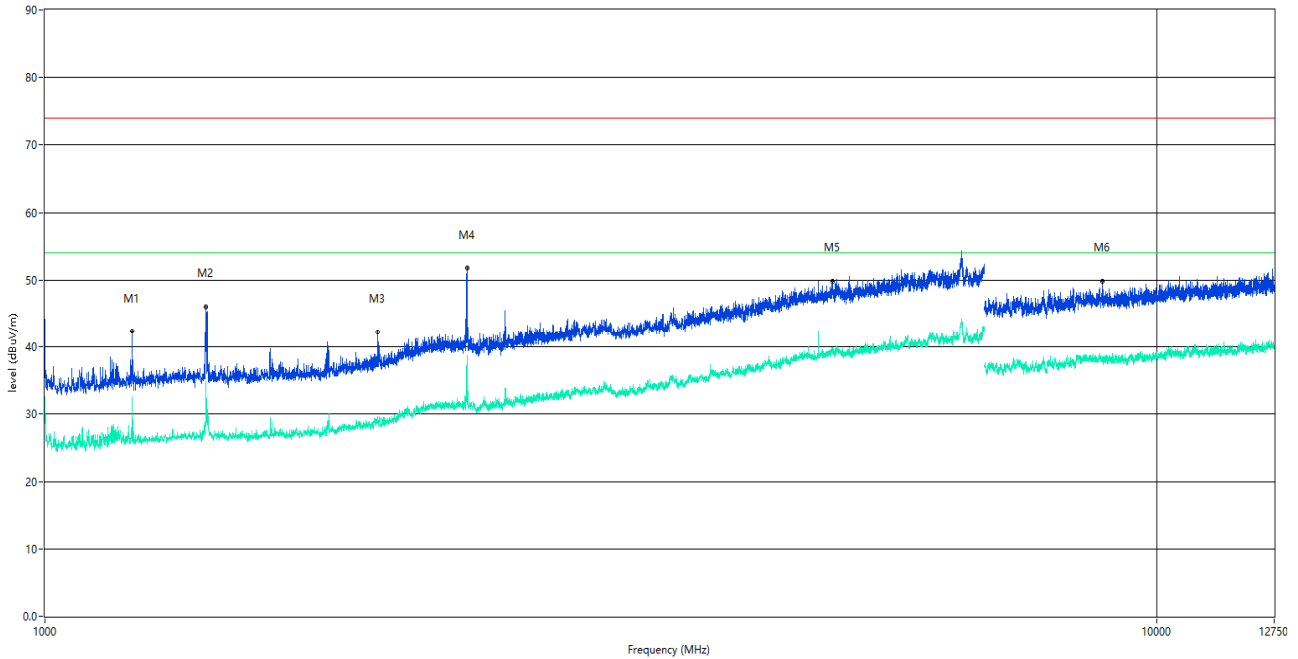
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	69.527	35.74	-27.21	40.0	-4.26	Peak	0.00	200	Horizontal	Pass
2	143.975	17.02	-28.16	43.5	-26.48	Peak	67.20	100	Horizontal	Pass
3	215.998	20.17	-24.49	43.5	-23.33	Peak	83.10	200	Horizontal	Pass
4	400.055	26.91	-19.38	46.0	-19.09	Peak	12.20	200	Horizontal	Pass
5	498.510	28.57	-17.03	46.0	-17.43	Peak	137.20	100	Horizontal	Pass
6	878.508	28.32	-10.79	46.0	-17.68	Peak	13.70	100	Horizontal	Pass

A.1.7 Test Antenna Vertical, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1197.000	31.52	-17.50	54.0	-22.48	AV	89.00	100	Vertical	Pass
1	1197.000	45.34	-17.50	74.0	-28.66	Peak	89.00	100	Vertical	Pass
2**	1397.500	31.36	-16.81	54.0	-22.64	AV	0.00	100	Vertical	Pass
2	1397.500	49.27	-16.81	74.0	-24.73	Peak	0.00	100	Vertical	Pass
3**	1717.500	26.99	-16.62	54.0	-27.01	AV	38.00	100	Vertical	Pass
3	1717.500	47.40	-16.62	74.0	-26.60	Peak	38.00	100	Vertical	Pass
4**	2391.500	31.96	-11.30	54.0	-22.04	AV	115.00	100	Vertical	Pass
4	2391.500	51.18	-11.30	74.0	-22.82	Peak	115.00	100	Vertical	Pass
5**	4959.000	38.55	-2.61	54.0	-15.45	AV	111.00	100	Vertical	Pass
5	4959.000	50.17	-2.61	74.0	-23.83	Peak	111.00	100	Vertical	Pass
6**	10864.000	38.88	0.52	54.0	-15.12	AV	15.00	100	Vertical	Pass
6	10864.000	51.04	0.52	74.0	-22.96	Peak	15.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 12.75 GHz



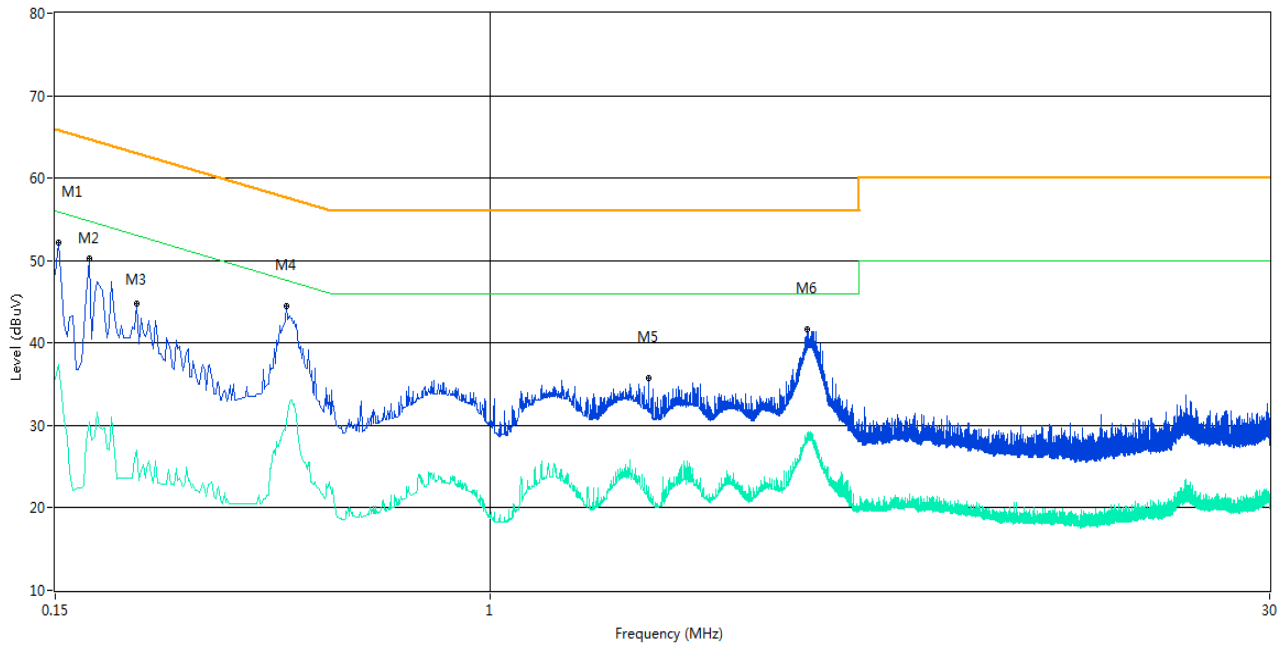
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1198.000	29.14	-17.47	54.0	-24.86	AV	42.00	100	Horizontal	Pass
1	1198.000	42.38	-17.47	74.0	-31.62	Peak	42.00	100	Horizontal	Pass
2**	1395.500	29.78	-16.72	54.0	-24.22	AV	94.00	100	Horizontal	Pass
2	1395.500	46.04	-16.72	74.0	-27.96	Peak	94.00	100	Horizontal	Pass
3**	1991.000	28.97	-14.93	54.0	-25.03	AV	94.00	100	Horizontal	Pass
3	1991.000	42.31	-14.93	74.0	-31.69	Peak	94.00	100	Horizontal	Pass
4**	2398.000	37.25	-11.52	54.0	-16.75	AV	94.00	100	Horizontal	Pass
4	2398.000	51.78	-11.52	74.0	-22.22	Peak	94.00	100	Horizontal	Pass
5**	5106.000	39.47	-2.41	54.0	-14.53	AV	0.00	100	Horizontal	Pass
5	5106.000	49.85	-2.41	74.0	-24.15	Peak	0.00	100	Horizontal	Pass
6**	8936.313	38.22	0.01	54.0	-15.78	AV	334.00	100	Horizontal	Pass
6	8936.313	49.89	0.01	74.0	-24.11	Peak	334.00	100	Horizontal	Pass

## A.2 Conducted Emission

### Test Data and Plots

#### The Charging Test Mode

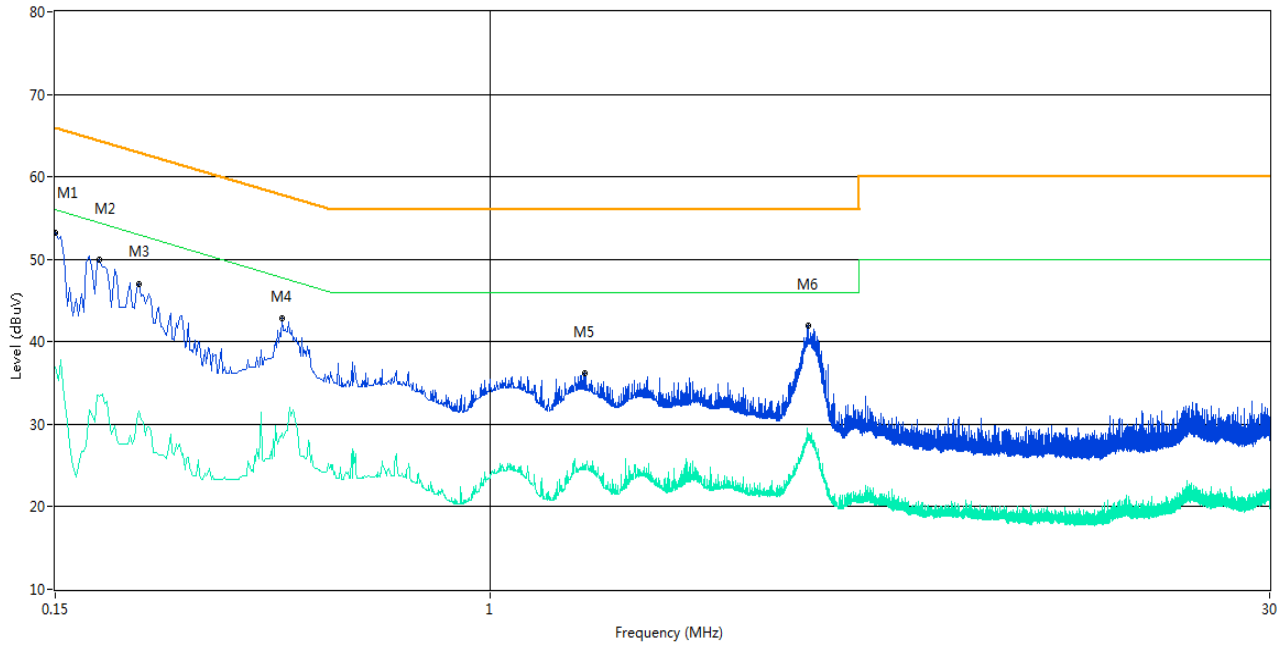
##### A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	52.2	10.04	65.9	13.70	Peak	L Line	Pass
1**	0.152	37.4	10.04	55.9	18.50	AV	L Line	Pass
2	0.174	50.3	10.04	64.8	14.50	Peak	L Line	Pass
2**	0.174	30.5	10.04	54.8	24.30	AV	L Line	Pass
3	0.214	44.7	10.04	63.0	18.30	Peak	L Line	Pass
3**	0.214	27.0	10.04	53.0	26.00	AV	L Line	Pass
4	0.412	44.4	10.04	57.6	13.20	Peak	L Line	Pass
4**	0.412	30.5	10.04	47.6	17.10	AV	L Line	Pass
5	1.996	35.7	10.09	56.0	20.30	Peak	L Line	Pass
5**	1.996	22.6	10.09	46.0	23.40	AV	L Line	Pass
6	3.982	41.6	10.14	56.0	14.40	Peak	L Line	Pass
6**	3.982	28.6	10.14	46.0	17.40	AV	L Line	Pass



## A.2.2 N Phase

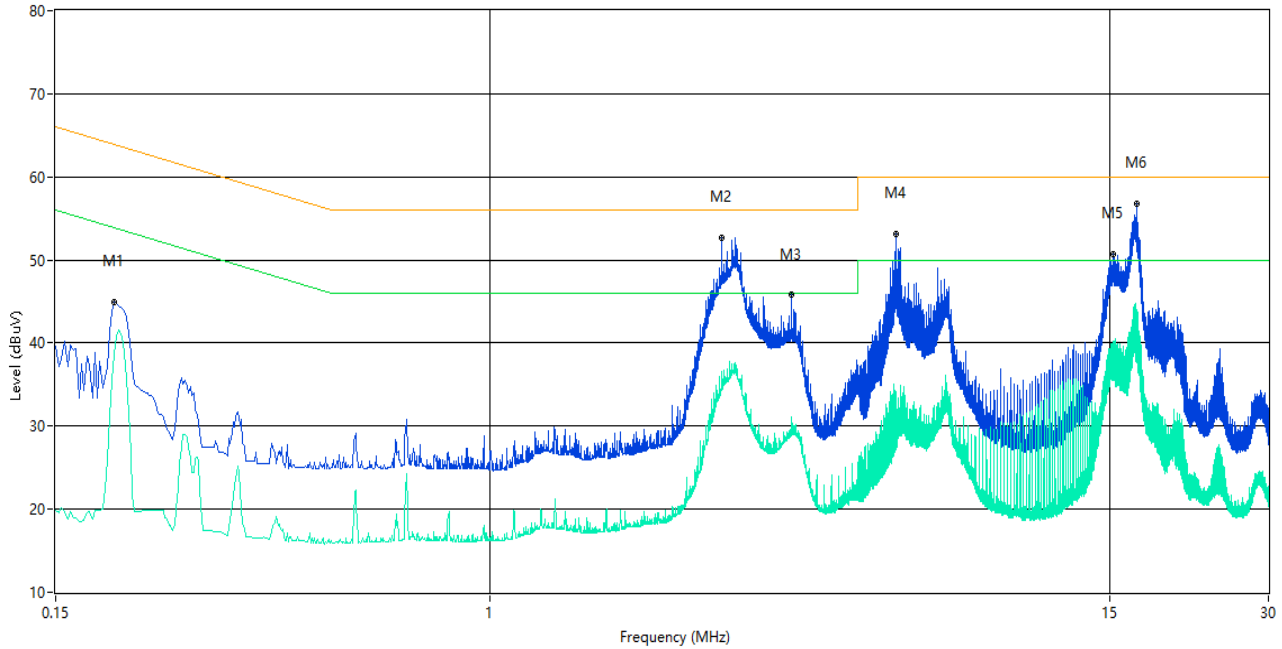


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	53.2	10.04	66.0	12.80	Peak	N Line	Pass
1**	0.150	36.9	10.04	56.0	19.10	AV	N Line	Pass
2	0.182	50.0	10.04	64.4	14.40	Peak	N Line	Pass
2**	0.182	33.4	10.04	54.4	21.00	AV	N Line	Pass
3	0.216	47.0	10.04	63.0	16.00	Peak	N Line	Pass
3**	0.216	31.5	10.04	53.0	21.50	AV	N Line	Pass
4	0.404	42.8	10.04	57.8	15.00	Peak	N Line	Pass
4**	0.404	28.9	10.04	47.8	18.90	AV	N Line	Pass
5	1.514	36.1	10.07	56.0	19.90	Peak	N Line	Pass
5**	1.514	24.9	10.07	46.0	21.10	AV	N Line	Pass
6	4.002	41.9	10.14	56.0	14.10	Peak	N Line	Pass
6**	4.002	28.8	10.14	46.0	17.20	AV	N Line	Pass

## Test Data and Plots

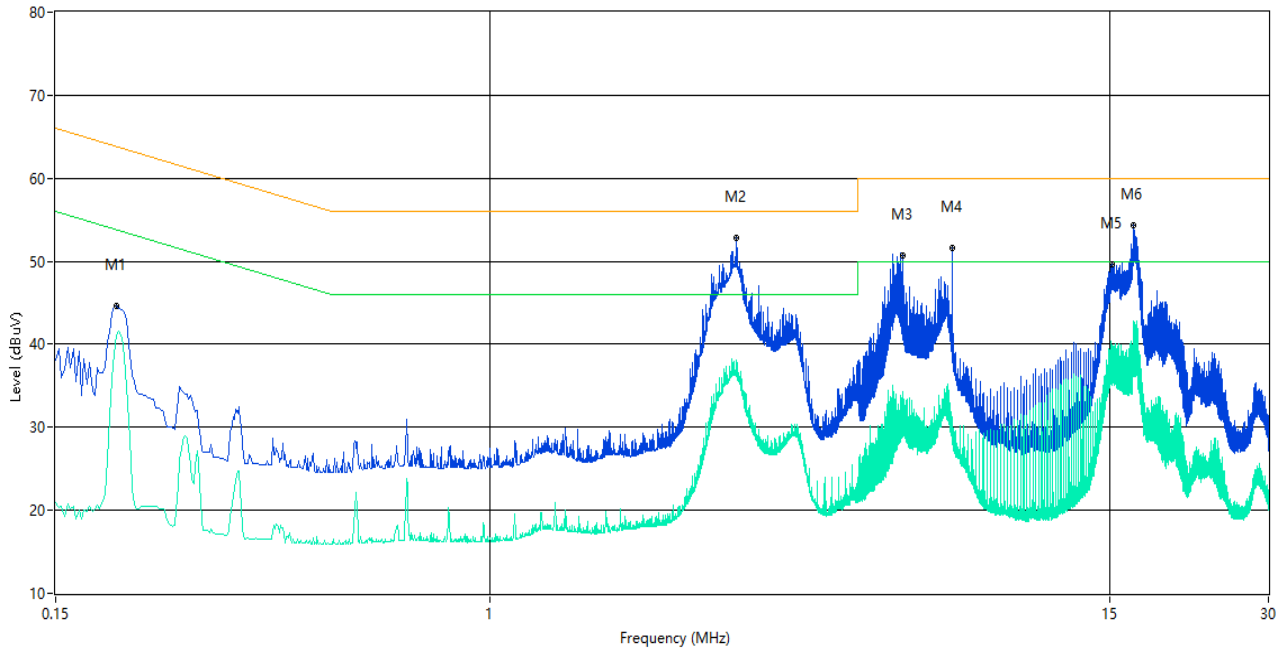
### The USB Test Mode

#### A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.194	44.9	10.01	63.9	-19.00	Peak	L Line	Pass
1**	0.194	38.8	10.01	53.9	-15.10	AV	L Line	Pass
2	2.752	52.7	10.08	56.0	-3.30	Peak	L Line	Pass
2**	2.752	36.1	10.08	46.0	-9.90	AV	L Line	Pass
3	3.738	45.8	10.09	56.0	-10.20	Peak	L Line	Pass
3**	3.738	31.1	10.09	46.0	-14.90	AV	L Line	Pass
4	5.910	53.2	10.13	60.0	-6.80	Peak	L Line	Pass
4**	5.910	29.6	10.13	50.0	-20.40	AV	L Line	Pass
5	15.200	50.7	10.21	60.0	-9.30	Peak	L Line	Pass
5**	15.200	40.2	10.21	50.0	-9.80	AV	L Line	Pass
6	16.876	56.8	10.22	60.0	-3.20	Peak	L Line	Pass
6**	16.876	43.5	10.22	50.0	-6.50	AV	L Line	Pass

## A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.196	44.6	10.01	63.8	-19.20	Peak	N Line	Pass
1**	0.196	41.2	10.01	53.8	-12.60	AV	N Line	Pass
2	2.940	52.9	10.07	56.0	-3.10	Peak	N Line	Pass
2**	2.940	37.2	10.07	46.0	-8.80	AV	N Line	Pass
3	6.084	50.7	10.13	60.0	-9.30	Peak	N Line	Pass
3**	6.084	30.8	10.13	50.0	-19.20	AV	N Line	Pass
4	7.554	51.6	10.14	60.0	-8.40	Peak	N Line	Pass
4**	7.554	29.9	10.14	50.0	-20.10	AV	N Line	Pass
5	15.148	49.7	10.21	60.0	-10.30	Peak	N Line	Pass
5**	15.148	34.7	10.21	50.0	-15.30	AV	N Line	Pass
6	16.656	54.4	10.22	60.0	-5.60	Peak	N Line	Pass
6**	16.656	35.8	10.22	50.0	-14.20	AV	N Line	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document "BL-SZ1850488-AE.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document "BL-SZ1850488-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document "BL-SZ1850488-AI.PDF".

--END OF REPORT--