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# FCC Test Report

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Report No.: AGC09626231001FE01

**FCC ID** : Q9SCMB307

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Two-way radio

**BRAND NAME** : bemoreco

**MODEL NAME** : CMR-307B, CMR-307

**APPLICANT** : Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications

**DATE OF ISSUE** : Dec. 19, 2023

**STANDARD(S)** : FCC Part 15 Subpart B

**REPORT VERSION** : V 1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 07, 2023	Invalid	Initial Release
V1.1	1 <sup>st</sup>	Dec. 19, 2023	Valid	Changed the model name

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## TABLE OF CONTENTS

<b>1. GENERAL INFORMATION .....</b>	<b>4</b>
<b>2. PRODUCT INFORMATION .....</b>	<b>5</b>
2.1 PRODUCT TECHNICAL DESCRIPTION .....	5
2.2 AUXILIARY SURROUNDING DESCRIPTION .....	5
2.3 TEST METHODOLOGY .....	6
2.4 DEFINITION OF DEVICE CLASSIFICATION .....	6
2.5 DESCRIPTION OF TEST MODES.....	6
<b>3. TEST ENVIRONMENT .....</b>	<b>7</b>
3.1 ADDRESS OF THE TEST LABORATORY .....	7
3.2 TEST FACILITY .....	7
3.3 ENVIRONMENTAL CONDITIONS.....	8
3.4 MEASUREMENT UNCERTAINTY .....	8
3.5 LIST OF EQUIPMENTS USED .....	9
<b>4. SUMMARY OF TEST RESULTS.....</b>	<b>10</b>
<b>5. RADIATED EMISSION MEASUREMENTS .....</b>	<b>11</b>
5.1 PROVISIONS APPLICABLE.....	11
5.2 MEASUREMENT SETUP .....	11
5.3 MEASUREMENT PROCEDURE.....	12
5.4 MEASUREMENT RESULT .....	14
<b>6. CONDUCTED EMISSION MEASUREMENTS.....</b>	<b>18</b>
6.1 PROVISIONS APPLICABLE.....	18
6.2 MEASUREMENT SETUP .....	18
6.3 MEASUREMENT PROCEDURE.....	19
6.4 MEASUREMENT RESULT .....	20
<b>APPENDIX I: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>22</b>
<b>APPENDIX II: PHOTOGRAPHS OF TEST EUT.....</b>	<b>22</b>

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### 1. GENERAL INFORMATION

Applicant	Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications
Address	20809 Kensington Blvd. Lakeville MN 55044 United States Of America
Manufacturer	Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications
Address	20809 Kensington Blvd. Lakeville MN 55044 United States Of America
Factory	Shenzhen Surwave Technologies Co., LTD
Address	Huolibao Building West, No31, Gaoxinbei Rd.6, Hi-Tech Industrial Park, Nanshan
Product Designation	Two-way radio
Brand Name	bemoreco
Test Model	CMR-307B
Series Model	CMR-307
Difference Description	The color and model names are different
Date of receipt of test item	Oct. 27, 2023
Date of Test	Oct. 27, 2023~Nov. 07, 2023
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCTR-ER-FCC-SDOC V1.0

The above equipment was tested by Attestation Of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	_____	
	Bibo Zhang (Project Engineer)	Dec. 19, 2023
Reviewed By		
	_____	
	Calvin Liu (Reviewer)	Dec. 19, 2023
Approved By		
	_____	
	Max Zhang Authorized Officer	Dec. 19, 2023

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## 2. PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

Housing Type	Plastic and metal
Highest Operating Frequency	Greater than 108MHz
Equipment Type	Table-Top
Communication Type	Voice / Tone only
Modulation	FM
RX Frequency Range	462.5625 - 462.7125MHz (1~7 channel) 467.5625 - 467.7125MHz (8~14 channel) 462.5500 - 462.7250MHz (15~22 channel)
Hardware Version	V15F
Software Version	FCRE02
Power Supply	DC 3.7 V 1820mAh by battery or DC 5V by adapter

### I/O Port Information (Applicable Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Earphone Port	1	-	1
Type C Port	1	0.8m Unshielded	1

### 2.2 AUXILIARY SURROUNDING DESCRIPTION

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- Test Accessories Come From The Laboratory  
 Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Adapter	AWSC-4000	N/A	Input: AC 100-240V 50/60Hz, 0.2A Output: DC 5.9V 0.8A	1.0m unshielded
2	Battery	AWB-4002	N/A	DC 3.7V 1820mAh	N/A
3	Charger	N/A	N/A	Input: DC 5.9V 0.8A	N/A
4	Back Clip	N/A	N/A	N/A	N/A

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### 2.3 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 15	Radio Frequency Devices
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

### 2.4 DEFINITION OF DEVICE CLASSIFICATION

Unintentional radiator:

A device which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment.

Class B Digital Device:

A digital device which is marketed for use by the general public or in a residential environment.

Note:

A manufacturer may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

### 2.5 DESCRIPTION OF TEST MODES

No.	Test Mode	Remark
1	Receiving at low channel of 462.5500 MHz to 462.7250 MHz	Worst
2	Receiving at middle channel of 462.5500 MHz to 462.7250 MHz	--
3	Receiving at high channel of 462.5500 MHz to 462.7250 MHz	--
4	Receiving at low channel of 462.5625 MHz to 462.7125 MHz	--
5	Receiving at middle channel of 462.5625 MHz to 462.7125 MHz	--
6	Receiving at high channel of 462.5625 MHz to 462.7125 MHz	--
7	Receiving at low channel of 467.5625 MHz to 467.7125 MHz	--
8	Receiving at middle channel of 467.5625 MHz to 467.7125 MHz	--
9	Receiving at high channel of 467.5625 MHz to 467.7125 MHz	--

**Note:** Only the result of the worst case was recorded in the report.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

### 3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission	$U_c = \pm 2.9$ dB
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9$ dB
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9$ dB

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### 3.5 LIST OF EQUIPMENTS USED

● Radiated Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023/02/18	2024/02/17
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023/06/03	2024/06/02
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023/05/11	2025/05/10
<input checked="" type="checkbox"/>	AGC-EM-E029	Horn Antenna	ETS	3117	00034609	2023/03/23	2024/03/22
<input checked="" type="checkbox"/>	AGC-EM-E096	Pre-amplifier	ETS	3117-PA	00246148	2022/08/04	2024/08/03
<input type="checkbox"/>	AGC-EM-S003	Test Software	FARA	V.RA-03A	N/A	N/A	N/A
<input checked="" type="checkbox"/>	AGC-EM-S004	Test Software	Tonscend	4.0.0.0	N/A	N/A	N/A

● Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023/06/03	2024/06/02
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023/06/03	2024/06/02
<input checked="" type="checkbox"/>	AGC-EM-S001	Test Software	R&S	ES-K1 (Ver.V1.71)	N/A	N/A	N/A

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#### 4. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Class/Severity	Result
1	Section 15.107	Radiated Emission	Class B	Pass
2	Section 15.109	Conducted Emission	Class B	Pass

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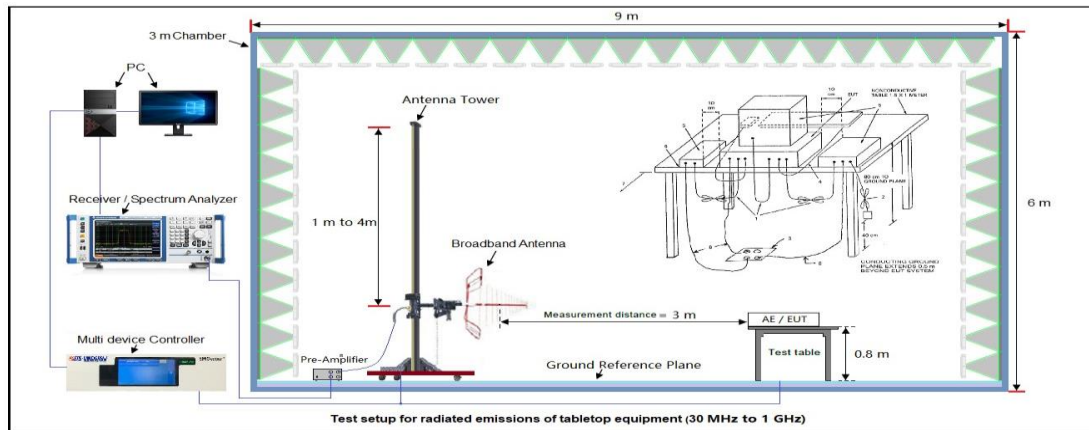
## 5. RADIATED EMISSION MEASUREMENTS

### 5.1 PROVISIONS APPLICABLE

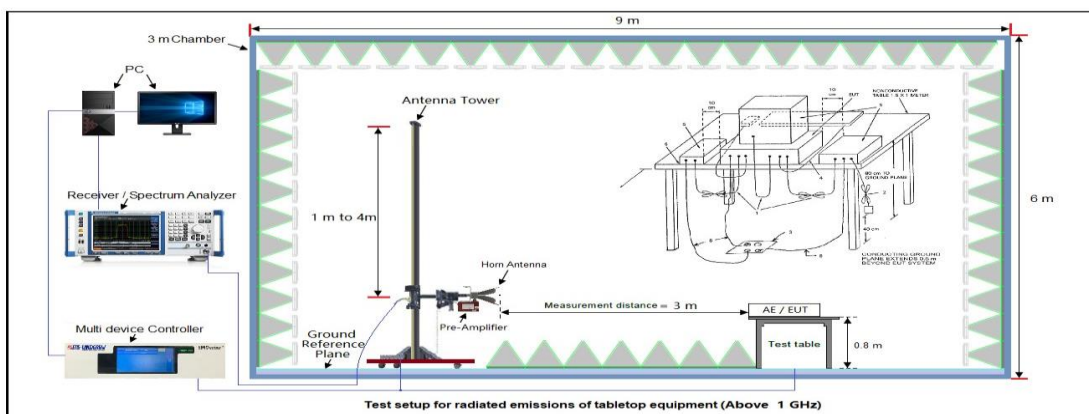
FCC CFR Title 47 Part 15 Subpart B Section 15.109:

Frequency Range	Class B Limit (dBuV/m @3m)	Class A Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	50.00	Quasi-peak
88MHz-216MHz	43.50	53.50	Quasi-peak
216MHz-960MHz	46.00	56.00	Quasi-peak
960MHz-1GHz	54.00	64.00	Quasi-peak
Above 1GHz	54.00	64.00	Average
	74.00	84.00	Peak

### 5.2 MEASUREMENT SETUP



(Radiated Emission Measurements Test Setup for 30MHz to 1GHz)



(Radiated Emission Measurements Test Setup for above 1GHz)

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### 5.3 MEASUREMENT PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received power by AC 120V/60Hz.
5. The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
6. The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
7. The test mode(s) were scanned during the test:
8. Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW $\geq$ 3RBW for QP reading.
9. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
10. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
11. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
12. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
13. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
14. The test data of the worst case condition (mode 1) was reported on the following Data page.

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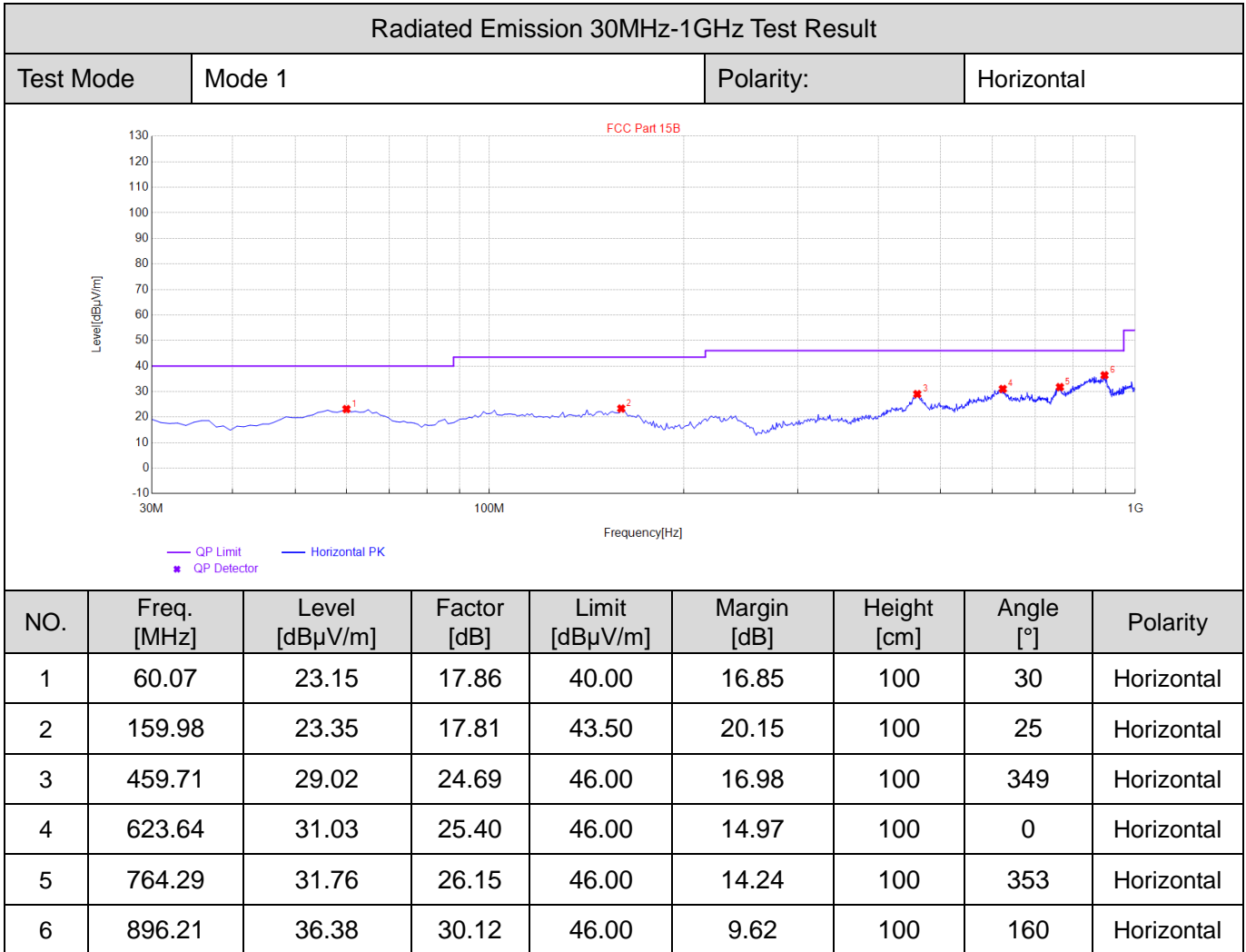
**EMI TEST RECEIVER SETUP:**

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

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### 5.4 MEASUREMENT RESULT

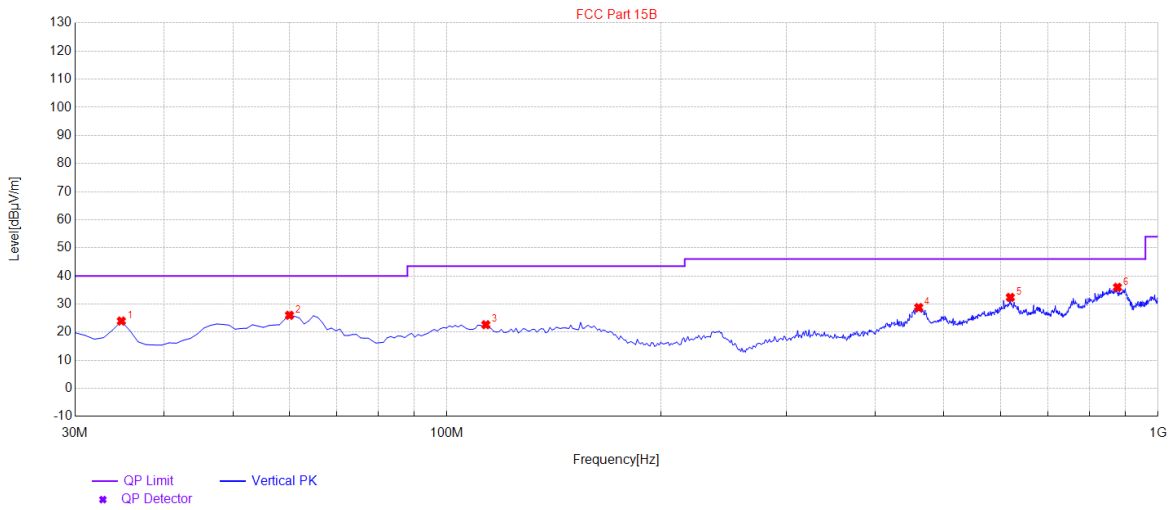


**RESULT: PASS**

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**Radiated Emission 30MHz-1GHz Test Result**

<b>Test Mode</b>	Mode 1	<b>Polarity:</b>	Vertical
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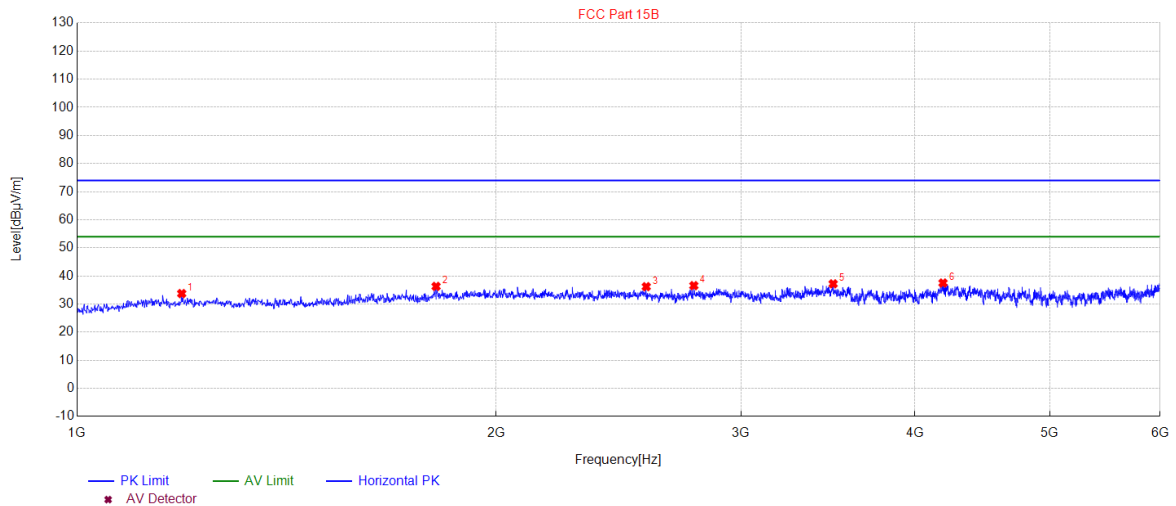
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	23.96	11.82	40.00	16.04	100	180	Vertical
2	60.07	26.01	17.86	40.00	13.99	100	212	Vertical
3	113.42	22.65	16.23	43.50	20.85	100	61	Vertical
4	460.68	28.77	24.60	46.00	17.23	100	171	Vertical
5	619.76	32.37	25.90	46.00	13.63	100	298	Vertical
6	876.81	35.96	29.44	46.00	10.04	100	1	Vertical

**RESULT: PASS**

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**Radiated Emission Above 1GHz Test Result**

Test Mode	Mode 1	Polarity:	Horizontal
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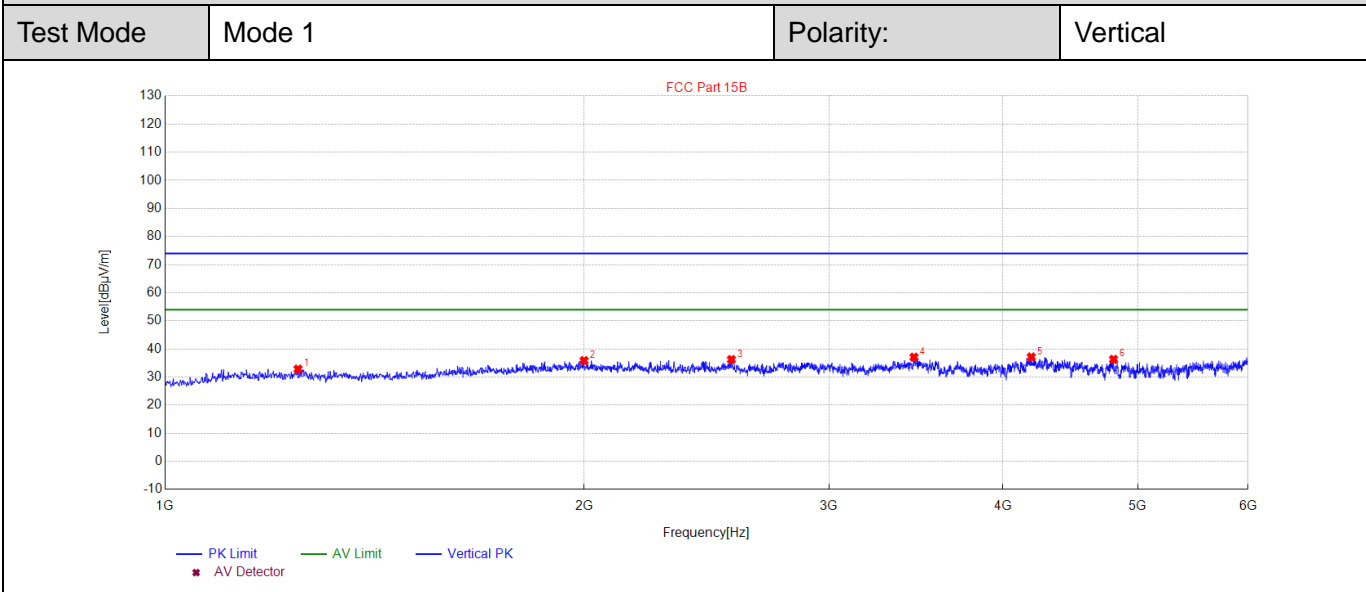
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1189.0378	33.74	-18.04	74.00	40.26	100	340	Horizontal
2	1811.1622	36.29	-14.97	74.00	37.71	100	280	Horizontal
3	2564.3129	36.19	-12.17	74.00	37.81	100	310	Horizontal
4	2774.3549	36.56	-12.07	74.00	37.44	100	100	Horizontal
5	3493.4987	37.20	-10.66	74.00	36.80	100	300	Horizontal
6	4189.6379	37.50	-9.18	74.00	36.50	100	30	Horizontal

**RESULT: PASS**

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**Radiated Emission Above 1GHz Test Result**



<b>Peak Data List</b>								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1246.0492	32.83	-17.95	74.00	41.17	100	190	Vertical
2	2000.2	35.85	-13.41	74.00	38.15	100	250	Vertical
3	2552.3105	36.24	-12.18	74.00	37.76	100	230	Vertical
4	3452.4905	37.07	-10.77	74.00	36.93	100	260	Vertical
5	4191.6383	37.14	-9.17	74.00	36.86	100	90	Vertical
6	4802.7606	36.30	-7.81	74.00	37.70	100	140	Vertical

**RESULT: PASS**

**Note:**

1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.
2. The “Factor” value can be calculated automatically by software of measurement system.

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## 6. CONDUCTED EMISSION MEASUREMENTS

### 6.1 PROVISIONS APPLICABLE

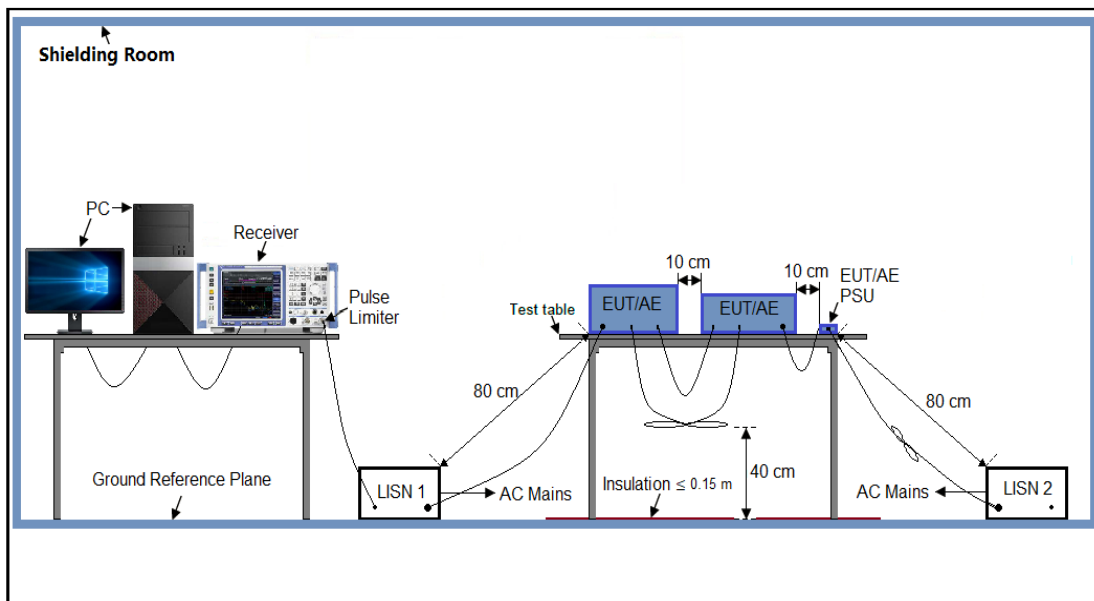
FCC CFR Title 47 Part 15 Subpart B Section 15.107:  
For Class B Limits:

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

For Class A Limits:

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	79	66
500kHz~30MHz	73	60

### 6.2 MEASUREMENT SETUP



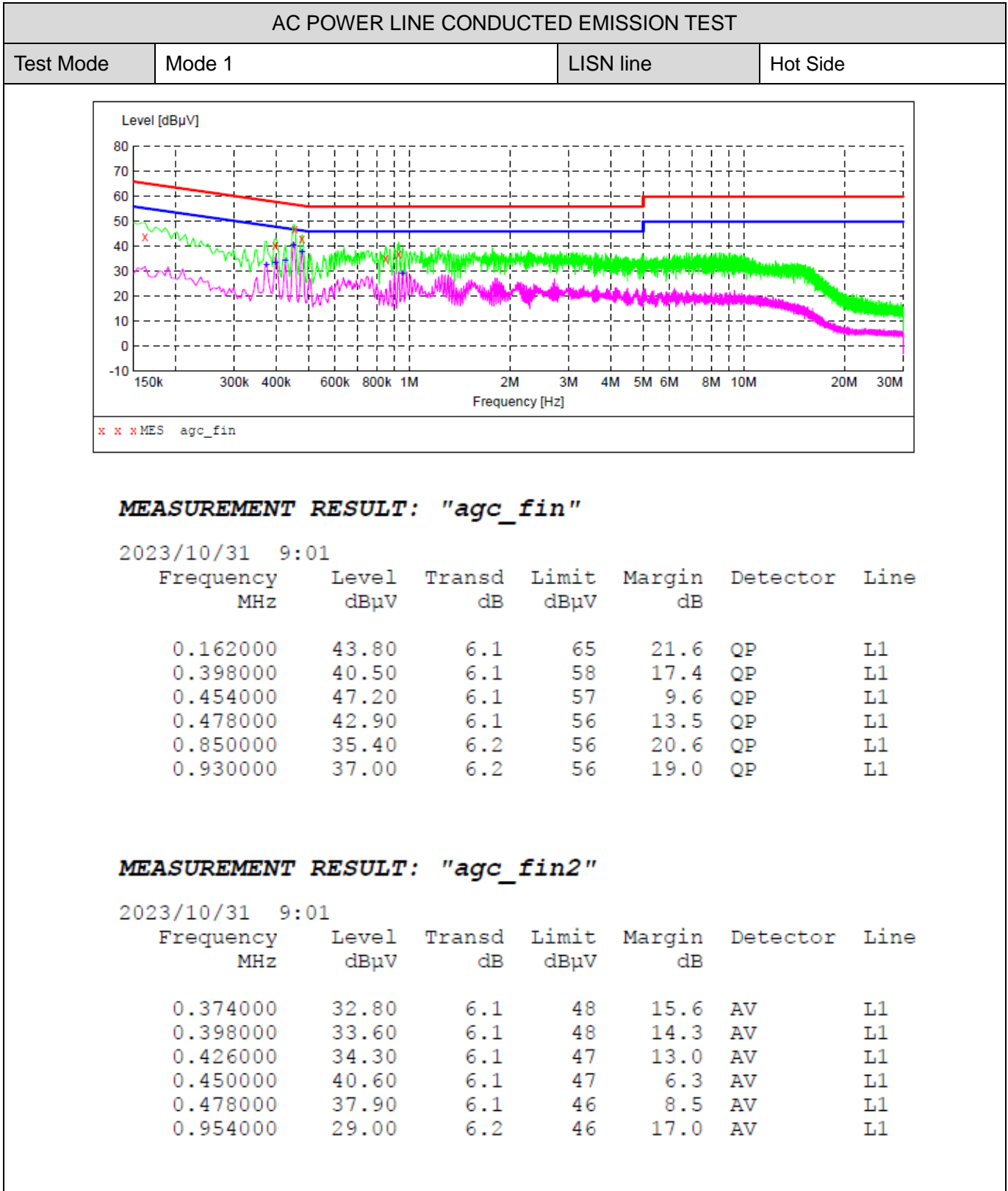
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### 6.3 MEASUREMENT PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test data of the worst case condition (Mode 1) was reported on the following Data page.

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### 6.4 MEASUREMENT RESULT

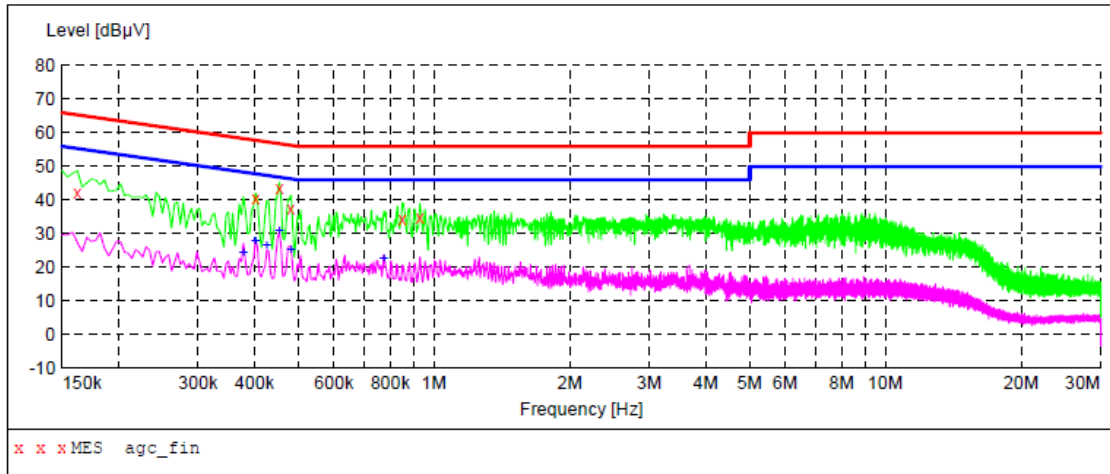


**RESULT: PASS**

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AC POWER LINE CONDUCTED EMISSION TEST

Test Mode	Mode 1	LISN line	Neutral Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/10/31 9:04

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000	42.40	6.1	65	23.0	QP	N
0.402000	40.40	6.1	58	17.4	QP	N
0.454000	43.30	6.1	57	13.5	QP	N
0.482000	37.60	6.1	56	18.7	QP	N
0.850000	34.60	6.2	56	21.4	QP	N
0.930000	35.00	6.2	56	21.0	QP	N

**MEASUREMENT RESULT: "agc\_fin2"**

2023/10/31 9:04

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.378000	24.60	6.1	48	23.7	AV	N
0.402000	27.80	6.1	48	20.0	AV	N
0.426000	26.80	6.1	47	20.5	AV	N
0.454000	30.80	6.1	47	16.0	AV	N
0.482000	25.10	6.1	46	21.2	AV	N
0.774000	22.60	6.2	46	23.4	AV	N

**RESULT: PASS**

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**APPENDIX I: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC09626231001AP03

**APPENDIX II: PHOTOGRAPHS OF TEST EUT**

Refer to the Report No.: AGC09626231001AP02

**-----END OF REPORT-----**

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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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