


# TEST REPORT

**Application No.:** GZCR2206000830AT  
**Applicant:** New Audio LLC  
**Address of Applicant:** 132 W. 31st 7th Floor New York, 10001 United States  
**Manufacturer:** New Audio LLC  
**Address of Manufacturer:** 132 W. 31st 7th Floor New York, 10001 United States  
**Factory:** Shenzhen Everplus Technology Co., Ltd  
**Address of Factory:** AC501 of NCBC Industrial Zone, No.3 Baolong Road 6, Baolong Community, Baolong Street, Longgang District, Shenzhen 518116

**Equipment Under Test (EUT):**

**EUT Name:** Wireless Charge Pad and Headphone Stand  
**Model No.:** MC300  
**Trade Mark:** 

**Standard(s) :** 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022-06-23  
**Date of Test:** 2022-06-24 to 2022-07-05  
**Date of Issue:** 2022-07-08

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-08		Original

<b>Authorized for issue by</b>			
			
		<hr/> <b>Curry Wu/Project Engineer</b>	
			
		<hr/> <b>Ricky Liu/Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Restricted band		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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### 3 Contents

	Page
<b>1 Cover Page</b> .....	<b>1</b>
<b>2 Test Summary</b> .....	<b>3</b>
<b>3 Contents</b> .....	<b>4</b>
<b>4 General Information</b> .....	<b>6</b>
4.1 Details of E.U.T. ....	6
4.2 Description of Support Units .....	6
4.3 Measurement Uncertainty .....	7
4.4 Test Location .....	8
4.5 Test Facility .....	8
4.6 Deviation from Standards .....	9
4.7 Abnormalities from Standard Conditions .....	9
<b>5 Equipment List</b> .....	<b>10</b>
<b>6 Radio Spectrum Technical Requirement</b> .....	<b>12</b>
6.1 Antenna Requirement .....	12
6.1.1 Test Requirement: .....	12
6.1.2 Conclusion .....	12
<b>7 Radio Spectrum Matter Test Results</b> .....	<b>13</b>
7.1 20dB Bandwidth .....	13
7.1.1 E.U.T. Operation .....	13
7.1.2 Test Mode Description .....	13
7.1.3 Test Setup Diagram .....	13
7.1.4 Measurement Procedure and Data .....	14
7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz) .....	15
7.2.1 E.U.T. Operation .....	15
7.2.2 Test Mode Description .....	15
7.2.3 Test Setup Diagram .....	15
7.2.4 Measurement Procedure and Data .....	16
7.3 Radiated Emissions (30MHz-1GHz) .....	19
7.3.1 E.U.T. Operation .....	19
7.3.2 Test Mode Description .....	19
7.3.3 Test Setup Diagram .....	20
7.3.4 Measurement Procedure and Data .....	20
7.4 Radiated Emissions (9kHz-30MHz) .....	27
7.4.1 E.U.T. Operation .....	28
7.4.2 Test Mode Description .....	28
7.4.3 Test Setup Diagram .....	28
7.4.4 Measurement Procedure and Data .....	28
7.5 Restricted band .....	33
7.5.1 E.U.T. Operation .....	33
7.5.2 Test Mode Description .....	33
7.5.3 Test Setup Diagram .....	33
7.5.4 Measurement Procedure and Data .....	34



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**8 Test Setup Photo.....35**

**9 EUT Constructional Details (EUT Photos).....35**



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Input: 9V/3.5A  
Output: Wireless Base 10W, USB-C out port 15W  
Inputs: 5V/3A, 9V/2A  
Output: Wireless Base 5W, USB-C out port 10W

Cable(s): DC Output cable:20cm unshielded  
DC Input cable:100cm unshielded

Operation frequency: 112.2kHz to 148.4kHz

Modulation Type: Load modulation

Antenna Type: Loop antenna

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Resistor	HUAXUN	2A30	RI01
Resistor	HUAXUN	8A12	RI03
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF
True Wireless Stereo Bluetooth Earphone	New Audio LLC	MW08 Sport	N/A
Adapter	Customer by Provide	CW20A	N/A



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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	+/-3%
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	±2.76dB
Radiated Emissions (30MHz-1GHz)	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m)
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Restricted band	± 3%
<p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{cispri}</math> (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> <li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li> <li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li> </ul>	



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

#### 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-08-08	2022-08-07
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19



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<b>Radiated Emissions (9kHz-30MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19

<b>Restricted band</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Please refer to internal photos.



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## 7 Radio Spectrum Matter Test Results

### 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215  
 Test Method: ANSI C63.10 (2013) Section 6.9.2

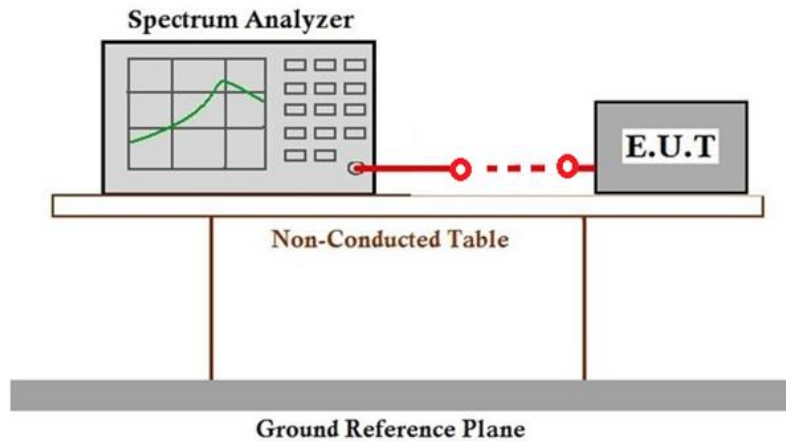
#### 7.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1003 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W)
Pre-scan	01	Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W)
Pre-scan	02	Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W)
Final test	03	Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (10W) and discharging(15W)

#### 7.1.3 Test Setup Diagram



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### 7.1.4 Measurement Procedure and Data

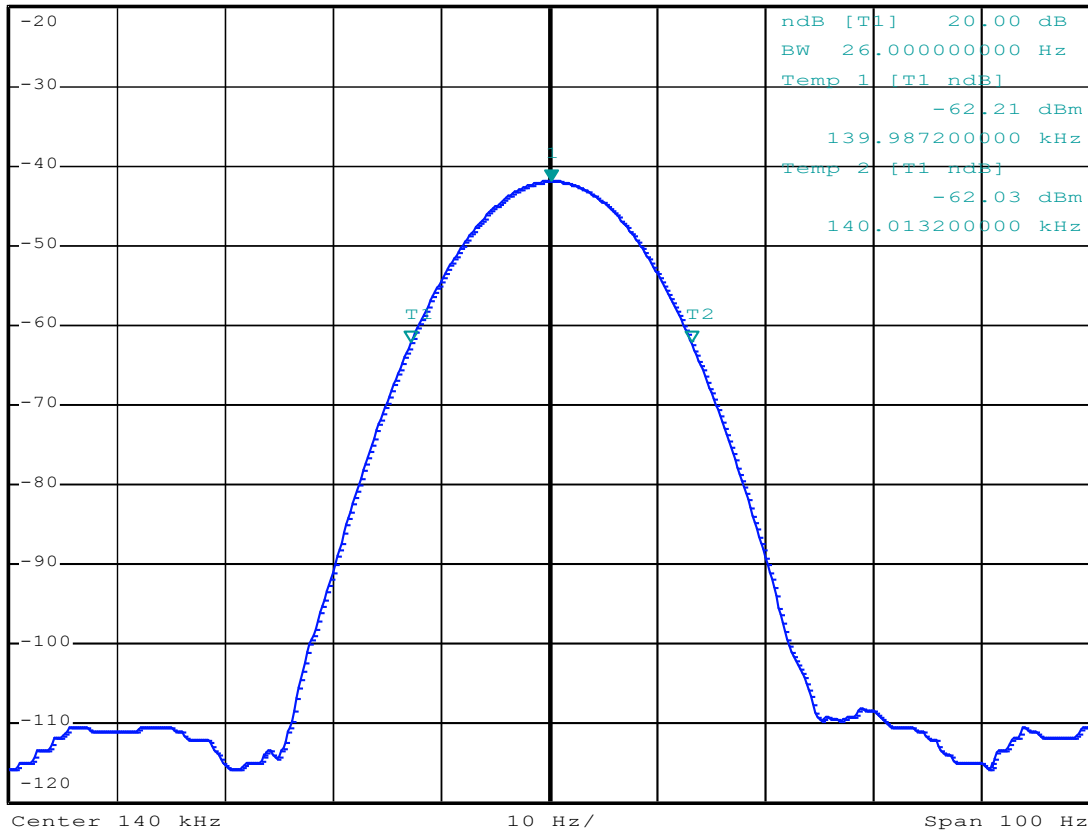
Mode 03:

Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
140.0	0.026	N/A	Pass



\* RBW 10 Hz      Marker 1 [T1]      -41.95 dBm  
\* VBW 30 Hz  
 Ref -20 dBm      Att 10 dB      SWT 1 s      140.00020000 kHz

1 PK  
VIEW



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**7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

**7.2.1 E.U.T. Operation**

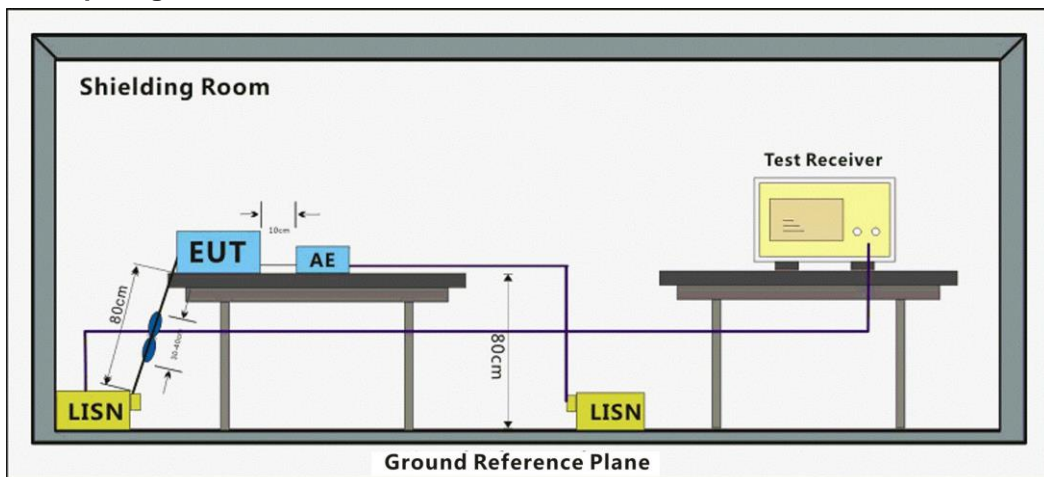
Operating Environment:

Temperature: 21.5 °C Humidity: 52.8 % RH Atmospheric Pressure: 1003 mbar

**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W)
Pre-scan	01	Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W)
Pre-scan	02	Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W)
Final test	03	Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (10W) and discharging(15W)

**7.2.3 Test Setup Diagram**



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**7.2.4 Measurement Procedure and Data**

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

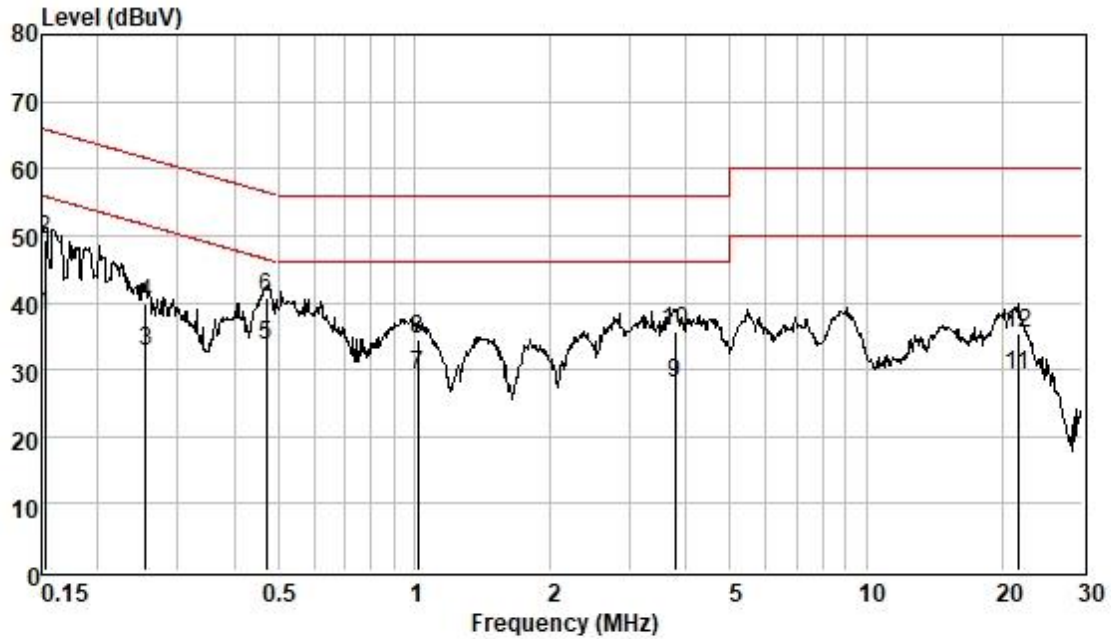
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 03; Line: Live line



Pol :LINE  
Mode :  
Model :

	Freque <sub>nc</sub> MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	28.56	0.06	9.54	38.16	55.87	-17.71	Average
2	0.152	39.71	0.06	9.54	49.31	65.87	-16.56	QP
3	0.255	23.04	0.06	9.57	32.67	51.60	-18.93	Average
4	0.255	30.18	0.06	9.57	39.81	61.60	-21.79	QP
5	0.471	23.96	0.07	9.59	33.62	46.49	-12.87	Average
6	0.471	31.12	0.07	9.59	40.78	56.49	-15.71	QP
7	1.021	19.55	0.07	9.60	29.22	46.00	-16.78	Average
8	1.021	24.96	0.07	9.60	34.63	56.00	-21.37	QP
9	3.779	18.07	0.16	9.63	27.86	46.00	-18.14	Average
10	3.779	25.80	0.16	9.63	35.59	56.00	-20.41	QP
11	21.600	18.86	0.38	9.82	29.06	50.00	-20.94	Average
12	21.600	25.09	0.38	9.82	35.29	60.00	-24.71	QP

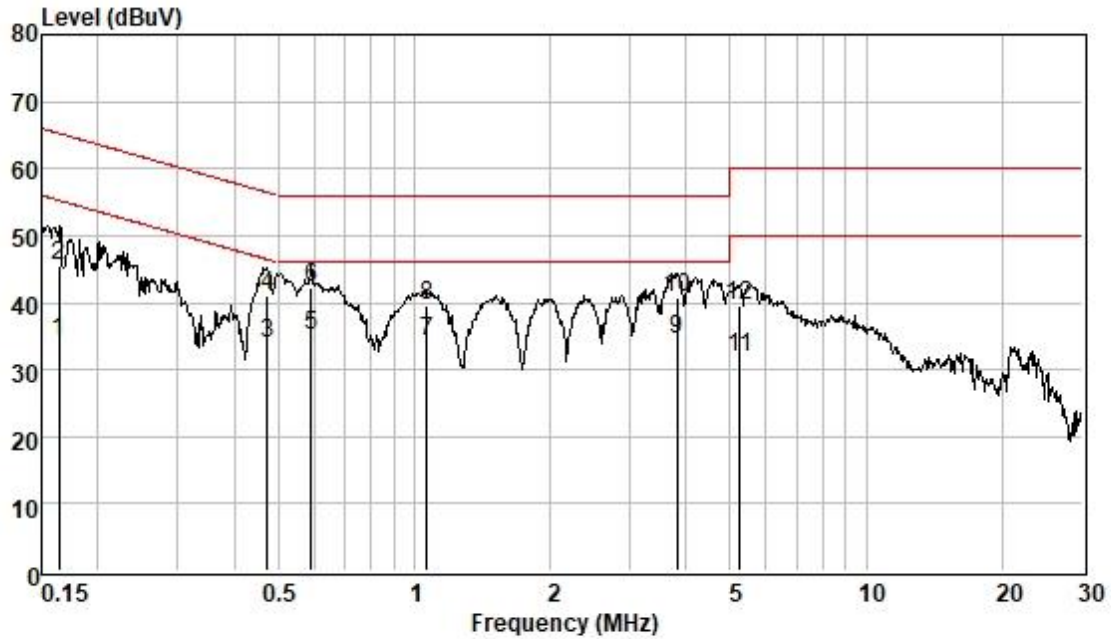


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Test Mode: 03; Line: Neutral Line



Pol : NEUTRAL  
Mode :  
Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.164	24.46	0.06	9.54	34.06	55.25	-21.19	Average
2	0.164	35.81	0.06	9.54	45.41	65.25	-19.84	QP
3	0.474	24.17	0.07	9.58	33.82	46.45	-12.63	Average
4	0.474	31.25	0.07	9.58	40.90	56.45	-15.55	QP
5	0.592	25.58	0.07	9.58	35.23	46.00	-10.77	Average
6	0.592	32.62	0.07	9.58	42.27	56.00	-13.73	QP
7	1.065	24.67	0.07	9.59	34.33	46.00	-11.67	Average
8	1.065	29.99	0.07	9.59	39.65	56.00	-16.35	QP
9	3.820	24.63	0.16	9.63	34.42	46.00	-11.58	Average
10	3.820	31.08	0.16	9.63	40.87	56.00	-15.13	QP
11	5.249	21.88	0.19	9.67	31.74	50.00	-18.26	Average
12	5.249	29.80	0.19	9.67	39.66	60.00	-20.34	QP



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**7.3 Radiated Emissions (30MHz-1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 22.5 °C Humidity: 52.9 % RH Atmospheric Pressure: 1003 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W)
Final test	01	Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W)
Pre-scan	02	Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W)
Final test	03	Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (10W) and discharging(15W)

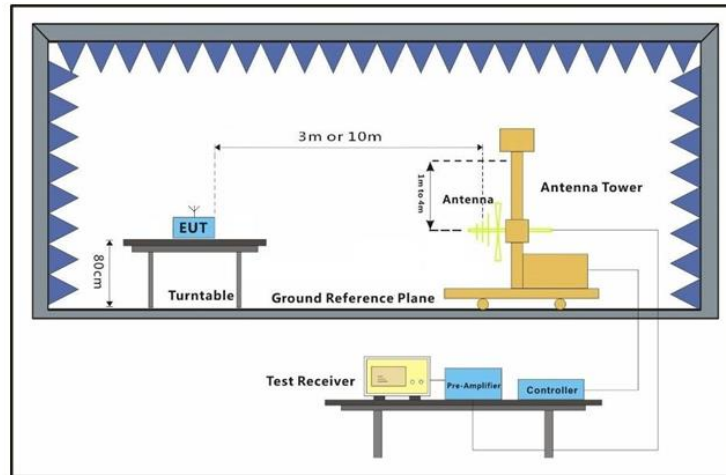


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### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

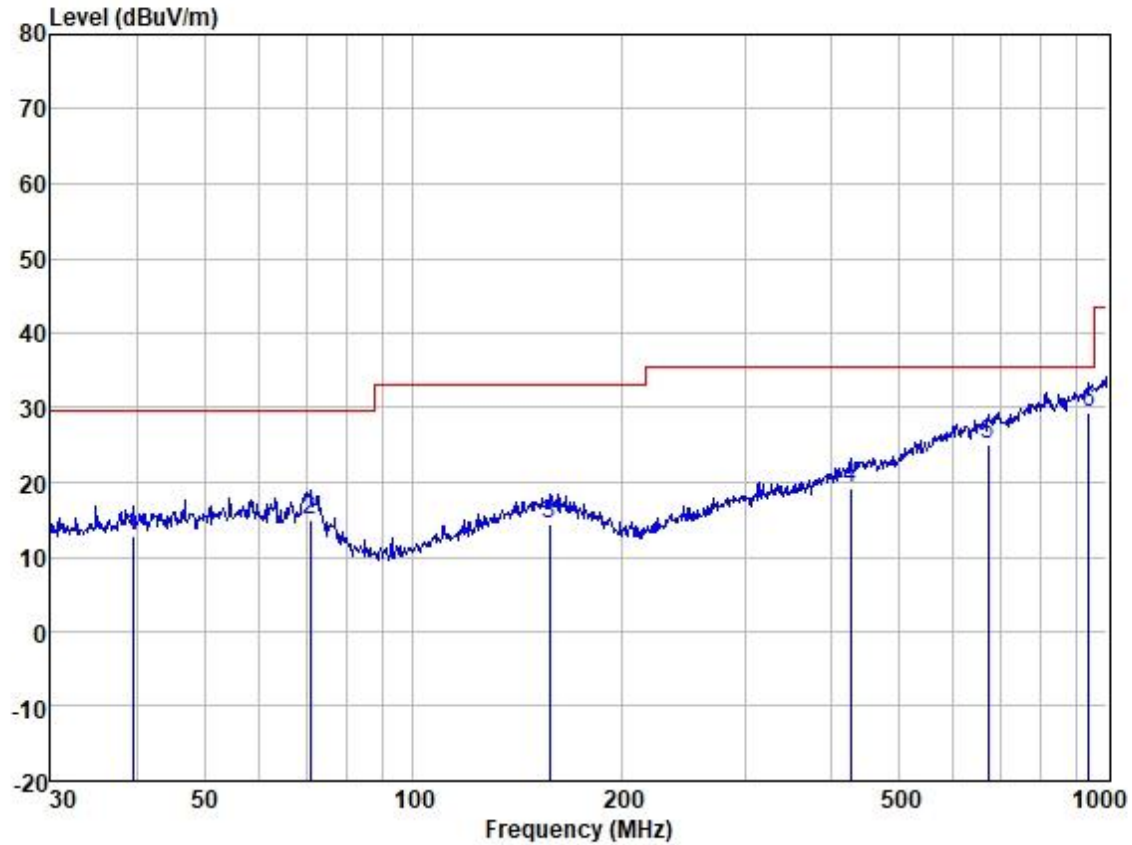
Remark: Level=Read Level+Cable Loss+Antenna Factor-Preamp Factor



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Test Mode: 01; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging

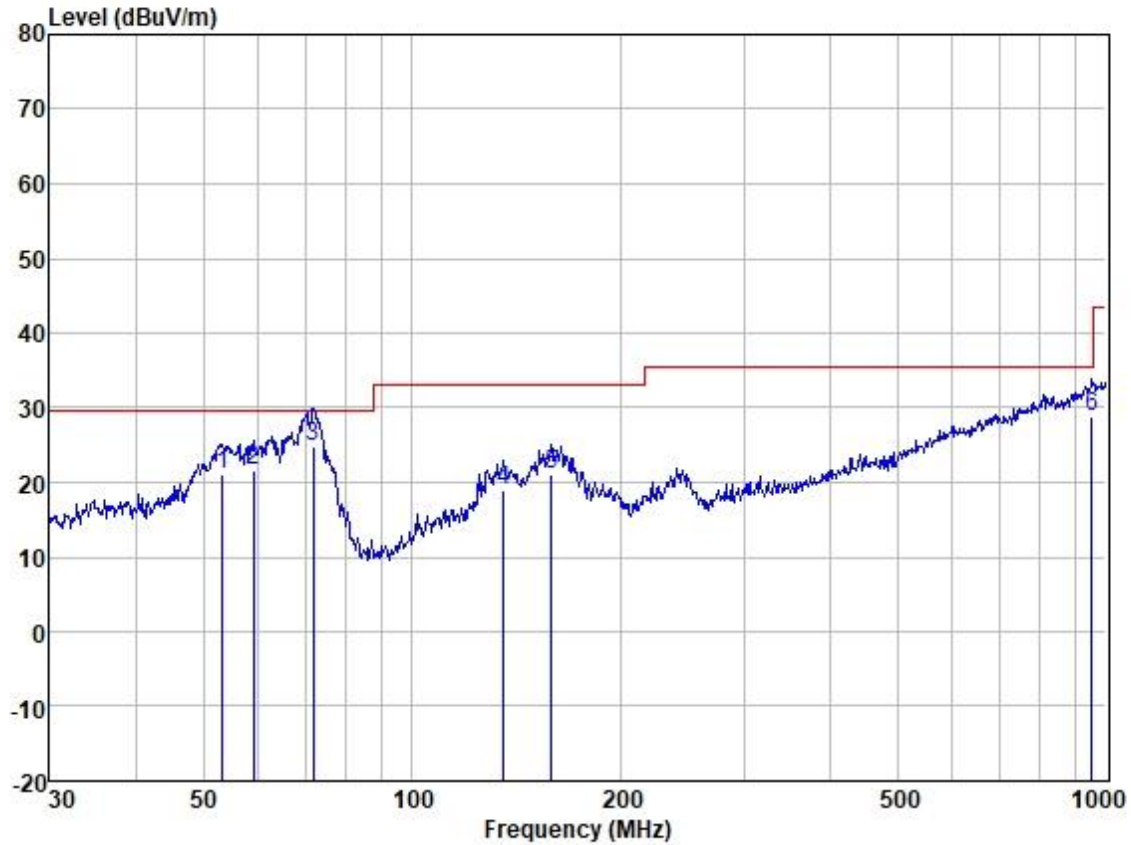
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	39.437	25.39	13.50	1.10	27.10	12.89	29.50	-16.61	HORIZONTAL	QP
2	71.080	29.04	11.46	1.41	27.05	14.86	29.50	-14.64	HORIZONTAL	QP
3	157.007	25.04	13.62	2.31	26.69	14.28	33.10	-18.82	HORIZONTAL	QP
4	426.521	26.11	16.31	4.07	27.34	19.15	35.60	-16.45	HORIZONTAL	QP
5	672.845	26.80	20.81	5.65	28.12	25.14	35.60	-10.46	HORIZONTAL	QP
6	942.131	25.95	23.99	7.12	27.61	29.45	35.60	-6.15	HORIZONTAL	QP



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Test Mode: 01; Polarity: Vertical



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	53.318	33.01	13.90	1.17	27.10	20.98	29.50	-8.52	VERTICAL	QP
2	59.025	34.06	13.45	1.24	27.09	21.66	29.50	-7.84	VERTICAL	QP
3	71.996	39.30	11.22	1.43	27.04	24.91	29.50	-4.59	VERTICAL	QP
4	135.506	31.05	12.79	2.03	26.86	19.01	33.10	-14.09	VERTICAL	QP
5	158.668	31.75	13.67	2.33	26.68	21.07	33.10	-12.03	VERTICAL	QP
6	952.094	25.05	24.26	7.18	27.59	28.90	35.60	-6.70	VERTICAL	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m

D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
39.437	12.89	4.41	14.70	23.35	40	-16.65	H
71.080	14.86	5.53	18.45	25.32	40	-14.68	H
157.007	14.28	5.18	17.25	24.74	43.5	-18.76	H
426.521	19.15	9.07	30.23	29.61	46	-16.39	H
672.845	25.14	18.07	60.24	35.60	46	-10.40	H
942.131	29.45	29.68	98.94	39.91	46	-6.09	H
53.318	20.98	11.19	37.31	31.44	40	-8.56	V
59.025	21.66	12.11	40.35	32.12	40	-7.88	V
71.996	24.91	17.60	58.66	35.37	40	-4.63	V
135.506	19.01	8.92	29.74	29.47	43.5	-14.03	V
158.668	21.07	11.31	37.70	31.53	43.5	-11.97	V
952.094	28.90	27.86	92.87	39.36	46	-6.64	V

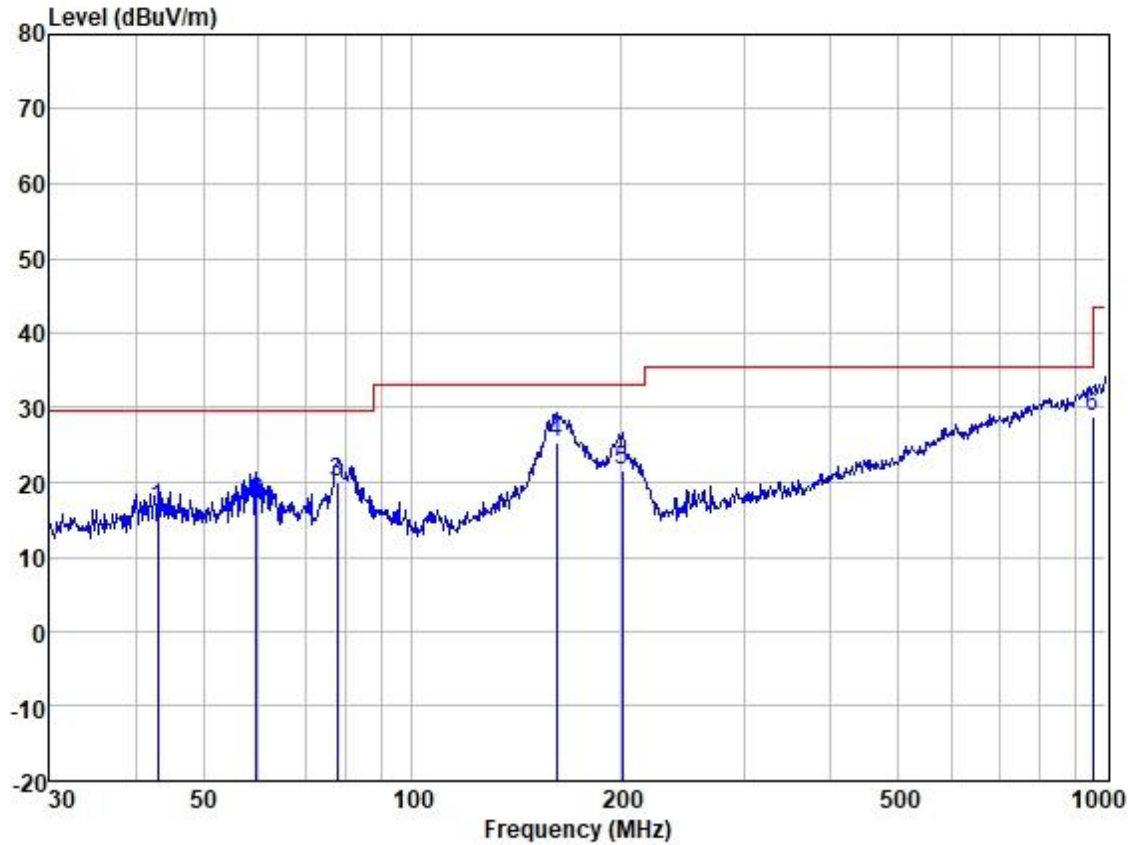


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Test Mode: 03; Polarity: Horizontal



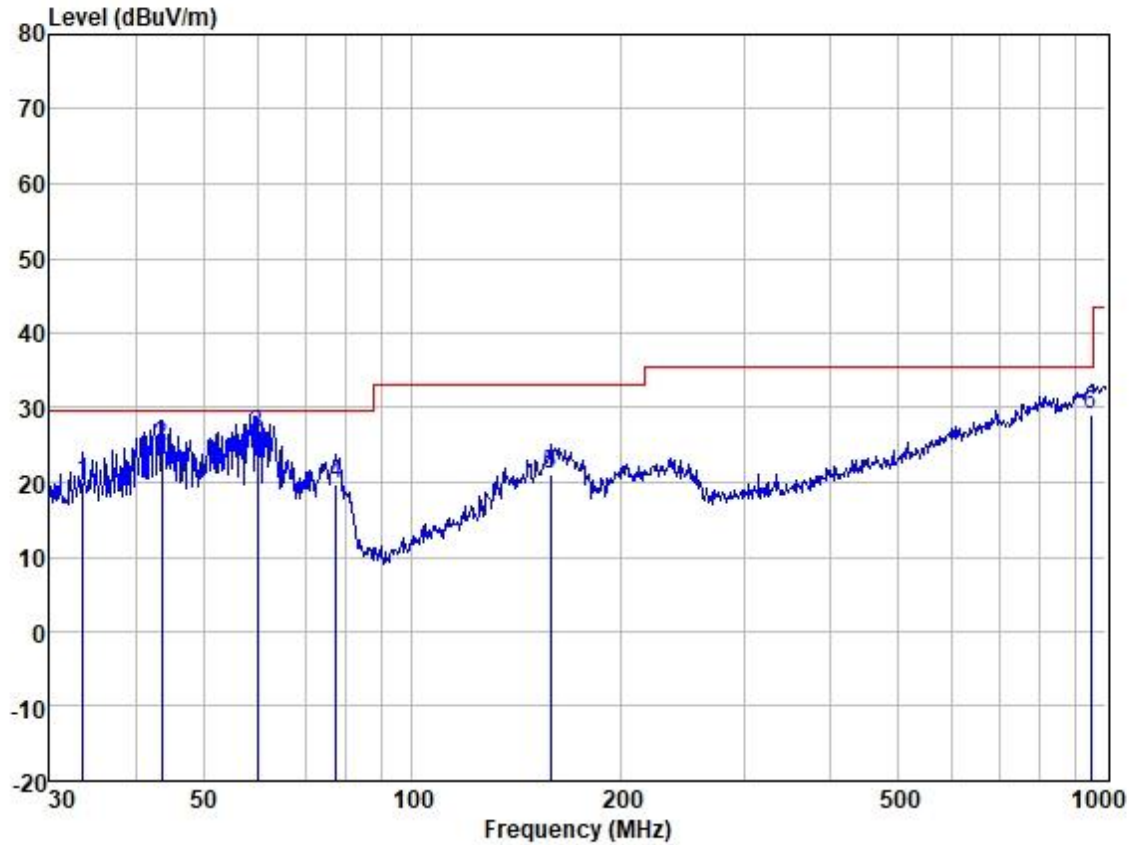
Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging+discharging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	42.900	28.66	13.75	1.11	27.10	16.42	29.50	-13.08	HORIZONTAL	QP
2	59.649	29.92	13.33	1.25	27.09	17.41	29.50	-12.09	HORIZONTAL	QP
3	77.865	35.97	9.61	1.46	27.02	20.02	29.50	-9.48	HORIZONTAL	QP
4	161.474	36.11	13.56	2.34	26.67	25.34	33.10	-7.76	HORIZONTAL	QP
5	200.688	35.72	10.06	2.53	26.60	21.71	33.10	-11.39	HORIZONTAL	QP
6	955.438	25.00	24.31	7.18	27.58	28.91	35.60	-6.69	HORIZONTAL	QP



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Test Mode: 03; Polarity: Vertical



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging+discharging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	33.562	33.21	12.90	1.06	27.10	20.07	29.50	-9.43	VERTICAL	QP
2	43.480	36.90	13.82	1.12	27.10	24.74	29.50	-4.76	VERTICAL	QP
3	59.798	38.97	13.33	1.26	27.09	26.47	29.50	-3.03	VERTICAL	QP
4	77.593	35.71	9.61	1.46	27.02	19.76	29.50	-9.74	VERTICAL	QP
5	158.112	31.74	13.64	2.31	26.68	21.01	33.10	-12.09	VERTICAL	QP
6	948.761	25.44	24.19	7.12	27.59	29.16	35.60	-6.44	VERTICAL	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m

D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
42.900	16.42	6.62	22.07	26.88	40	-13.12	H
59.649	17.41	7.42	24.74	27.87	40	-12.13	H
77.865	20.02	10.02	33.41	30.48	40	-9.52	H
161.474	25.34	18.49	61.64	35.80	43.5	-7.70	H
200.688	21.71	12.18	40.59	32.17	43.5	-11.33	H
955.438	28.91	27.89	92.98	39.37	46	-6.63	H
33.562	20.07	10.08	33.60	30.53	40	-9.47	V
43.480	24.74	17.26	57.53	35.20	40	-4.80	V
59.798	26.47	21.06	70.21	36.93	40	-3.07	V
77.593	19.76	9.73	32.42	30.22	40	-9.78	V
158.112	21.01	11.23	37.44	31.47	43.5	-12.03	V
948.761	29.16	28.71	95.69	39.62	46	-6.38	V



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**7.4 Radiated Emissions (9kHz-30MHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.4  
 Measurement Distance: 3m  
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where  $f_{MHz}$  is the frequency of the emission being measured in MHz.



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**7.4.1 E.U.T. Operation**

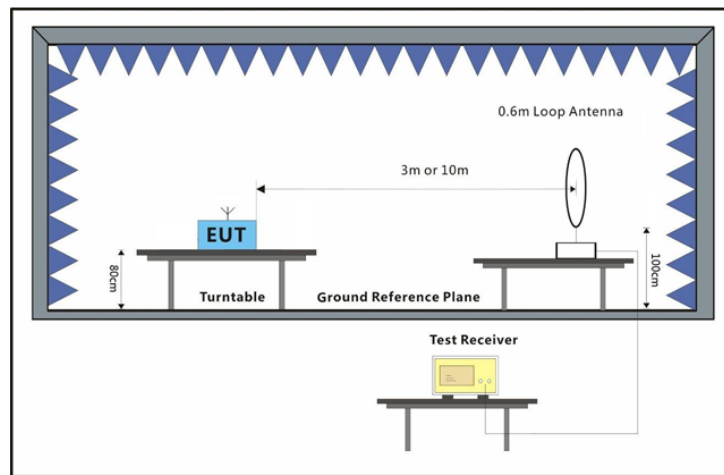
Operating Environment:

Temperature: 22.5 °C Humidity: 52.9 % RH Atmospheric Pressure: 1003 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W)
Final test	01	Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W)
Pre-scan	02	Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W)
Final test	03	Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (10W) and discharging(15W)

**7.4.3 Test Setup Diagram**



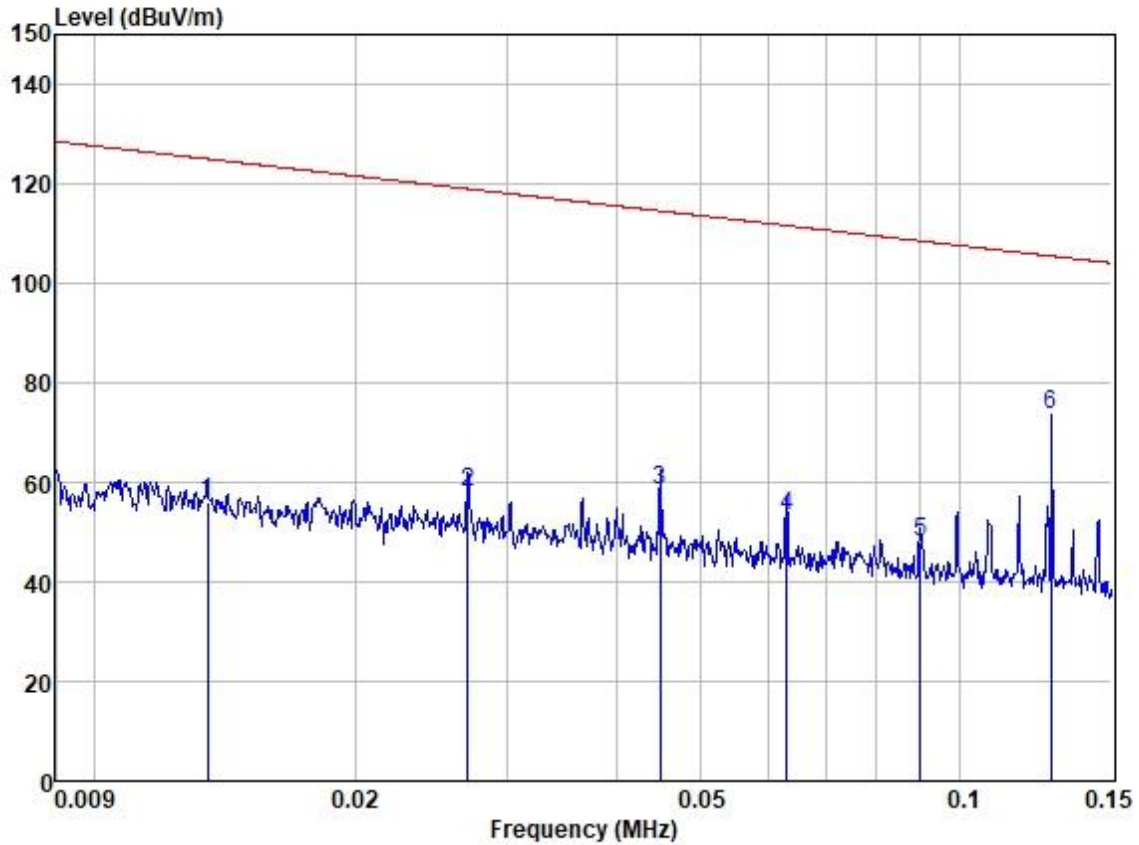
**7.4.4 Measurement Procedure and Data**

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.



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Test Mode: 01; Polarity: Horizontal



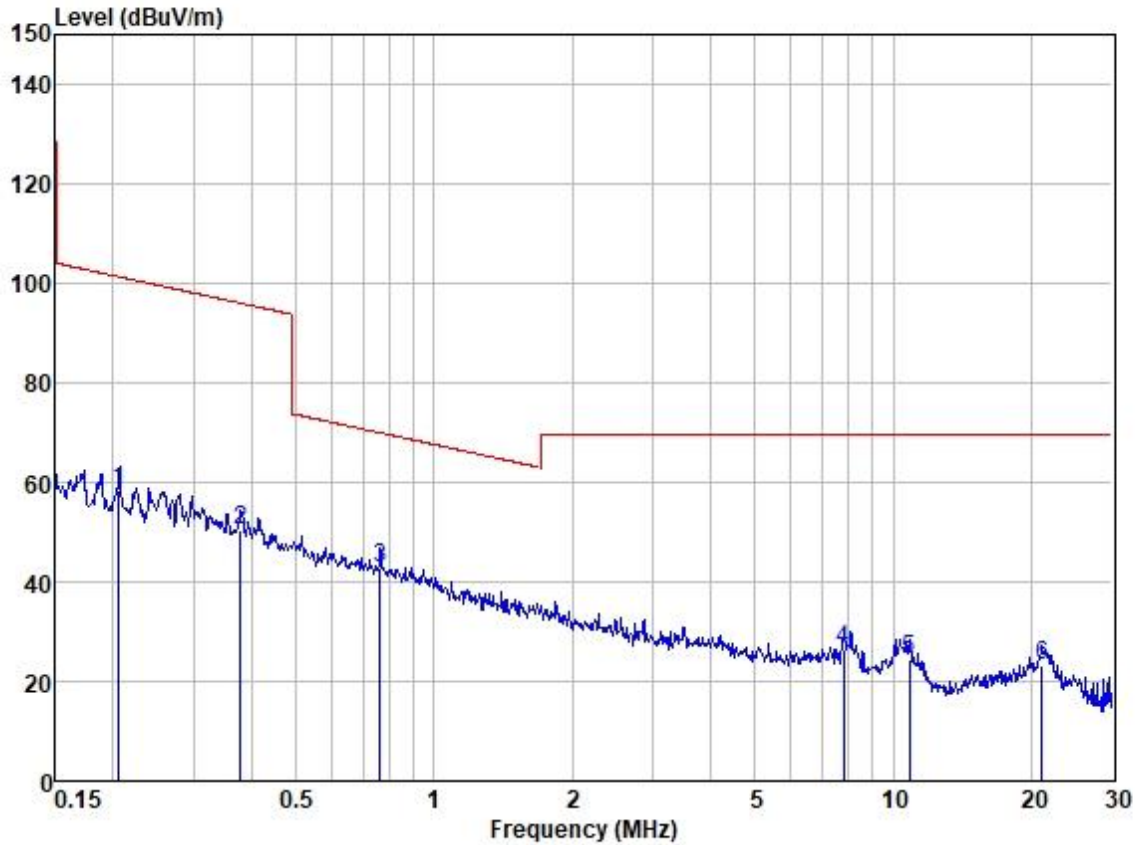
Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging+discharging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.013	67.89	16.46	0.05	28.38	56.02	125.00	-68.98	HORIZONTAL	Average
2	0.027	73.26	13.18	0.05	28.68	57.81	118.99	-61.18	HORIZONTAL	Average
3	0.045	75.40	12.32	0.05	29.21	58.56	114.54	-55.98	HORIZONTAL	Average
4	0.063	70.54	12.08	0.05	29.31	53.36	111.61	-58.25	HORIZONTAL	Average
5	0.090	65.23	11.96	0.05	29.38	47.86	108.53	-60.67	HORIZONTAL	Average
6	0.128	91.15	11.92	0.05	29.40	73.72	105.49	-31.77	HORIZONTAL	Average



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Test Mode: 01; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging+discharging

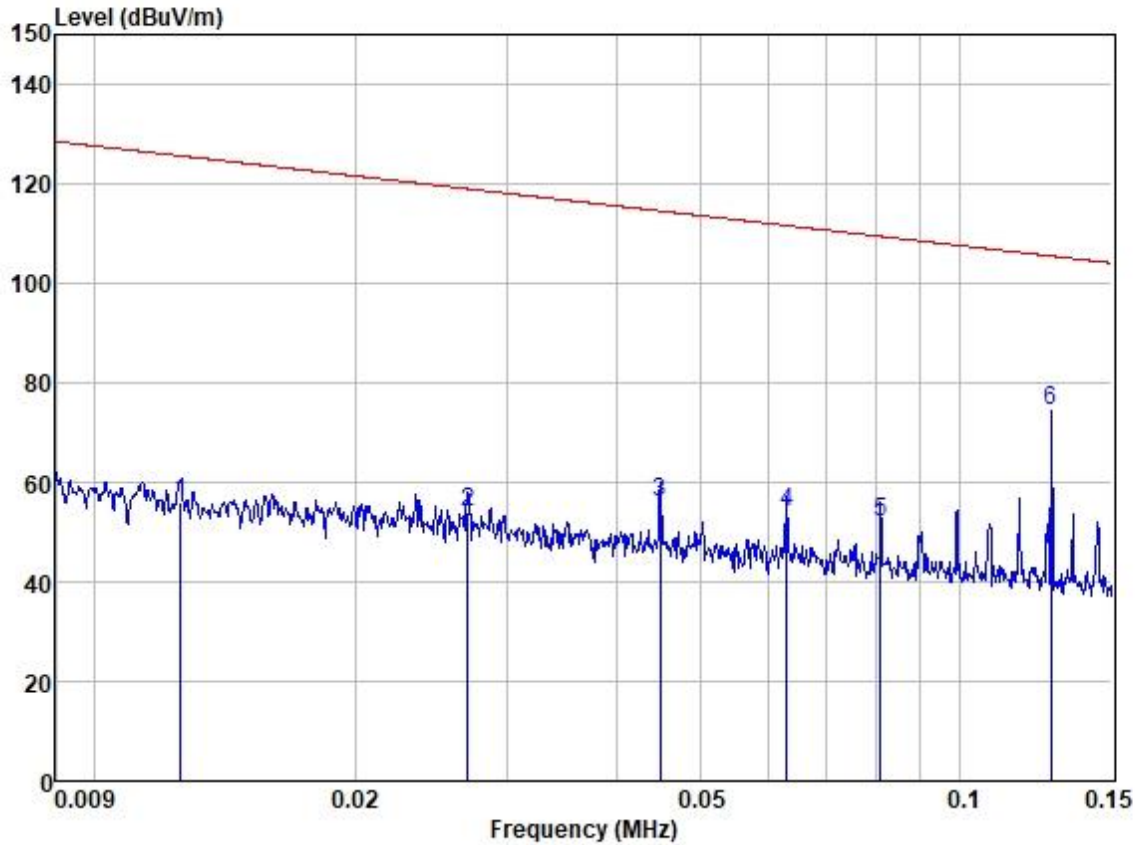
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.206	75.70	11.85	0.05	29.40	58.20	101.32	-43.12	HORIZONTAL	Average
2	0.379	67.72	11.86	0.06	29.40	50.24	96.03	-45.79	HORIZONTAL	Average
3	0.763	60.26	11.83	0.12	29.40	42.81	69.95	-27.14	HORIZONTAL	QP
4	7.810	43.40	11.75	0.47	29.30	26.32	69.54	-43.22	HORIZONTAL	QP
5	10.847	42.83	10.43	0.53	29.29	24.50	69.54	-45.04	HORIZONTAL	QP
6	21.147	43.03	8.51	0.77	29.18	23.13	69.54	-46.41	HORIZONTAL	QP



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Test Mode: 05; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging

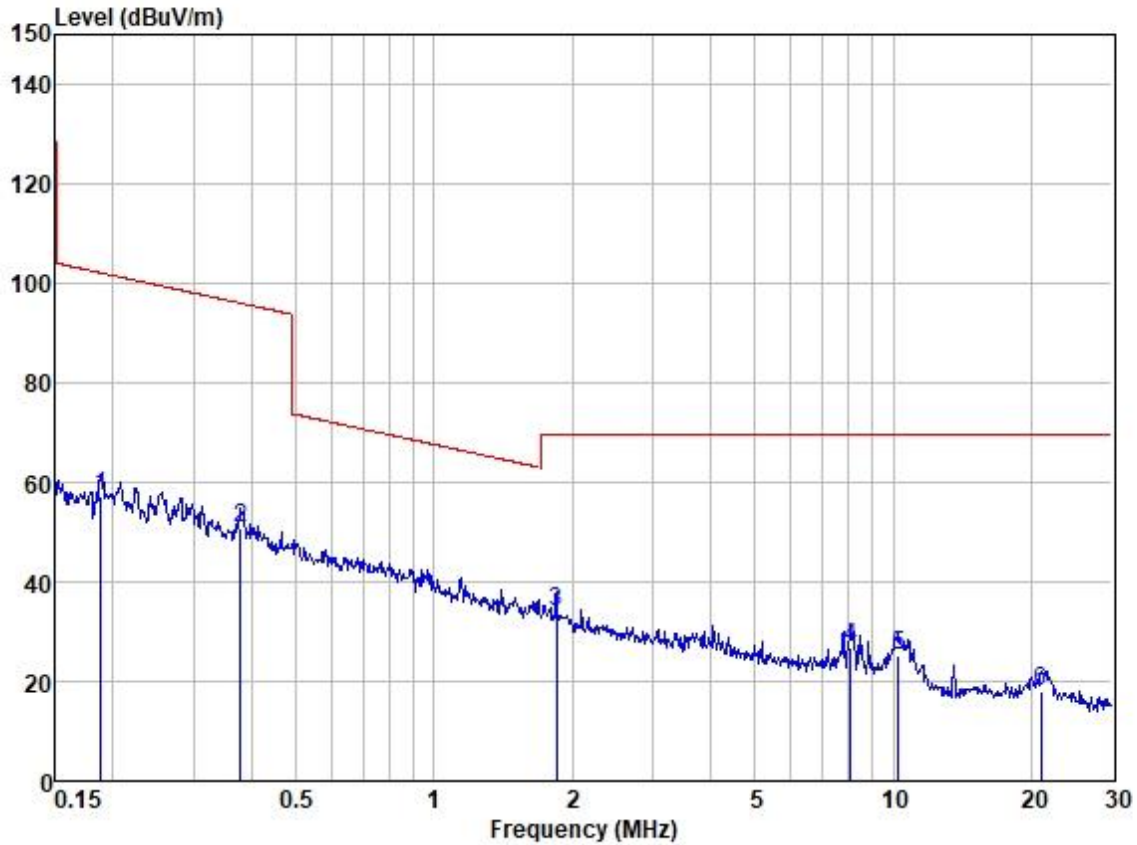
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.013	67.03	17.37	0.05	28.36	56.09	125.64	-69.55	HORIZONTAL	Average
2	0.027	69.45	13.18	0.05	28.68	54.00	118.99	-64.99	HORIZONTAL	Average
3	0.045	72.82	12.32	0.05	29.21	55.98	114.54	-58.56	HORIZONTAL	Average
4	0.063	71.18	12.08	0.05	29.31	54.00	111.61	-57.61	HORIZONTAL	Average
5	0.081	69.22	11.98	0.05	29.36	51.89	109.43	-57.54	HORIZONTAL	Average
6	0.128	91.76	11.92	0.05	29.40	74.33	105.49	-31.16	HORIZONTAL	Average



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Test Mode: 05; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Wireless charging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.188	74.67	11.85	0.05	29.40	57.17	102.10	-44.93	HORIZONTAL	Average
2	0.379	68.31	11.86	0.06	29.40	50.83	96.03	-45.20	HORIZONTAL	Average
3	1.848	51.18	11.84	0.19	29.40	33.81	69.54	-35.73	HORIZONTAL	QP
4	8.062	43.84	11.67	0.48	29.30	26.69	69.54	-42.85	HORIZONTAL	QP
5	10.288	43.38	10.50	0.52	29.30	25.10	69.54	-44.44	HORIZONTAL	QP
6	21.035	38.05	8.54	0.77	29.18	18.18	69.54	-51.36	HORIZONTAL	QP



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### 7.5 Restricted band

Test Requirement 47 CFR Part 15, Subpart C 15.205  
 Test Method: ANSI C63.10 (2013) Section 6.10.5  
 Limit:

The fundamental wave can not fall in the restricted band 90KHz-110KHz

#### 7.5.1 E.U.T. Operation

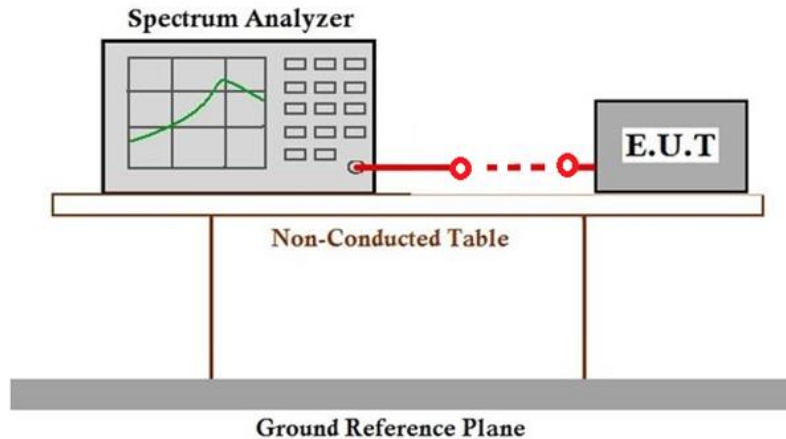
Operating Environment:

Temperature: 23.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1003 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W)
Pre-scan	01	Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W)
Pre-scan	02	Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W)
Final test	03	Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (10W) and discharging(15W)

#### 7.5.3 Test Setup Diagram



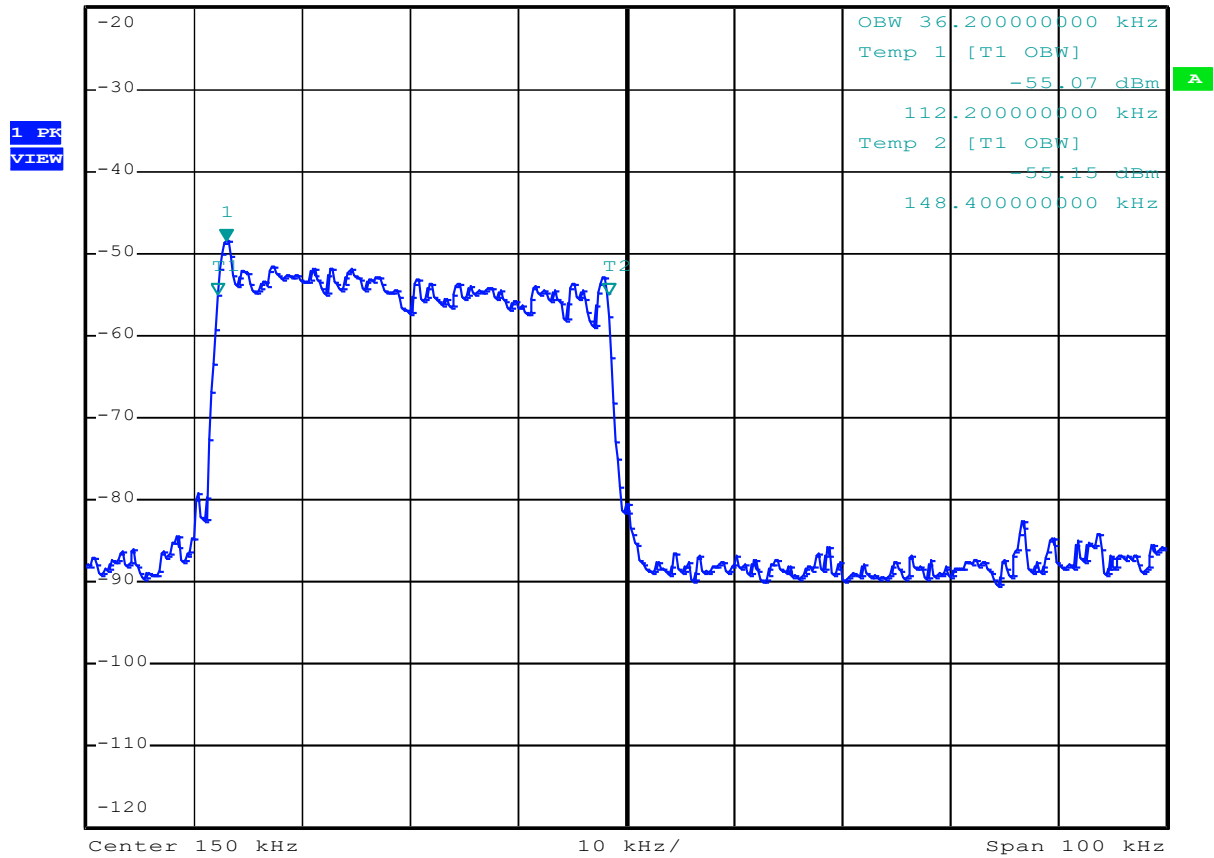
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### 7.5.4 Measurement Procedure and Data

Mode 03



\*RBW 1 kHz      Marker 1 [T1 ]  
\*VBW 3 kHz      -48.40 dBm  
Ref -20 dBm      Att 10 dB      SWT 100 ms      113.00000000 kHz



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2206000830AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2206000830AT

- End of the Report -



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