

TEST REPORT

Application No.: GZCR2406000590LM
Applicant: Luxottica Group S.p.A
Address of Applicant: One Icon, Foothill Ranch, California, 92610, United States
Manufacturer: Luxottica Group S.p.A
Address of Manufacturer: One Icon, Foothill Ranch, California, 92610, United States
Product Name: Nuance Audio Charging pad
Model No.: AAW0001EL
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2024-06-03
Date of Test: 2024-10-15 to 2024-10-16 for test report GZCR240600059002
 2024-10-22 to 2024-11-04 for test report GZCR240600059008
Date of Issue: 2024-12-03

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Ricky Liu

Ricky Liu
Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR240600059002	2024-09-27	Original
02	GZCR240600059008	2024-12-03	Amendment report: Modification of Nuance Audio Charging pad

Authorized for issue by:				
		Jim Li		
		Jim Li/Project Engineer		
		Vico Cui		
		Vico Cui/Reviewer		



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	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.

♣Remark for report GZCR240600059008:

This report GZCR240600059008 was an amendment report copied from the GZCR240600059002 original report, in which there are 2 option modifications without any change in RF parts were made in the charging pad refer to the External Photo and Internal Photo. Sample M5 and A5 belonged to option 2, while Sample A4 and A6 belonged to option 1.

Considering the change of the EUT, the tests Radiated Emissions (9kHz-30MHz) and Radiated Emissions (30MHz-1GHz) were performed on the normal EUTs (sample number: M5 & A4), and performed Conducted Emissions at Mains Terminals (150kHz-30MHz) on the EUTs removed the loop antenna (sample number: A5 & A6) in this report and original data is copied from original report GZCR240600059002.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V, 500mA, 2.5W
Cable(s):	Type C changing ports with 1m unshielded cables
Test Voltage:	AC 120 V, 60 Hz
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Integral Antenna
Antenna Number:	2

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	ANKER	A2322	AFCRX50D43312315
Glasses	LUXOTTICA	AW5002	SM3SP21G8N0010
Type C power cables	Offered by applicant	1m, unshielded	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 2.76\text{dB}$
20dB Bandwidth	$\pm 3\%$
Emission Mask	$\pm 3.12\text{dB}$ (below 30 MHz)
Frequency tolerance	$\pm 7.25 \text{ E-8}$
Radiated Emissions (9kHz-30MHz)	$\pm 3.12\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.00\text{dB}$ (30MHz-1GHz):3m; $\pm 4.38\text{dB}$ (30MHz-1GHz):10m

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{cisp/etsi}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

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No tests were sub-contracted.



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4.5 Test Facility

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

- **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.

- **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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

For test report GZCR240600059003

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2024-02-20	2025-02-19
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13

Frequency tolerance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2024-06-17	2025-06-16
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2024-02-20	2025-02-19
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01

For test report GZCR240600059008

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2024-09-02	2025-09-01
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-05-13	2025-05-12
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A



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Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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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

15.203 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 uses a unique coupling to the intentional radiator, 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.

EUT Antenna:

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

Antenna location: Refer to Internal photos

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

Frequency range (MHz)	Limit (dBuV)	
	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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 53.6 % RH

Atmospheric Pressure: 1001 mbar

7.1.2 Test Mode Description

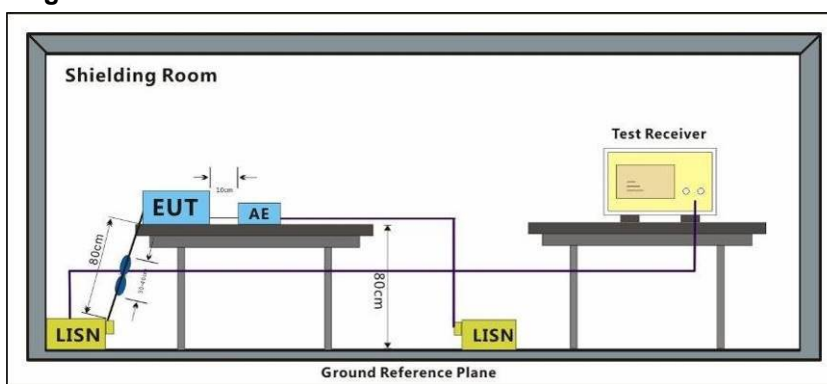
Pre-scan / Mode Description

Final test Code

Final test 03 Wireless charging mode (13.56MHz)

Remark: The EUT is removed the antenna and connected a dummy load in this test item according to Q5 of KDB 174176 D01 Line Conducted FAQ v01r01

7.1.3 Test Setup Diagram



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



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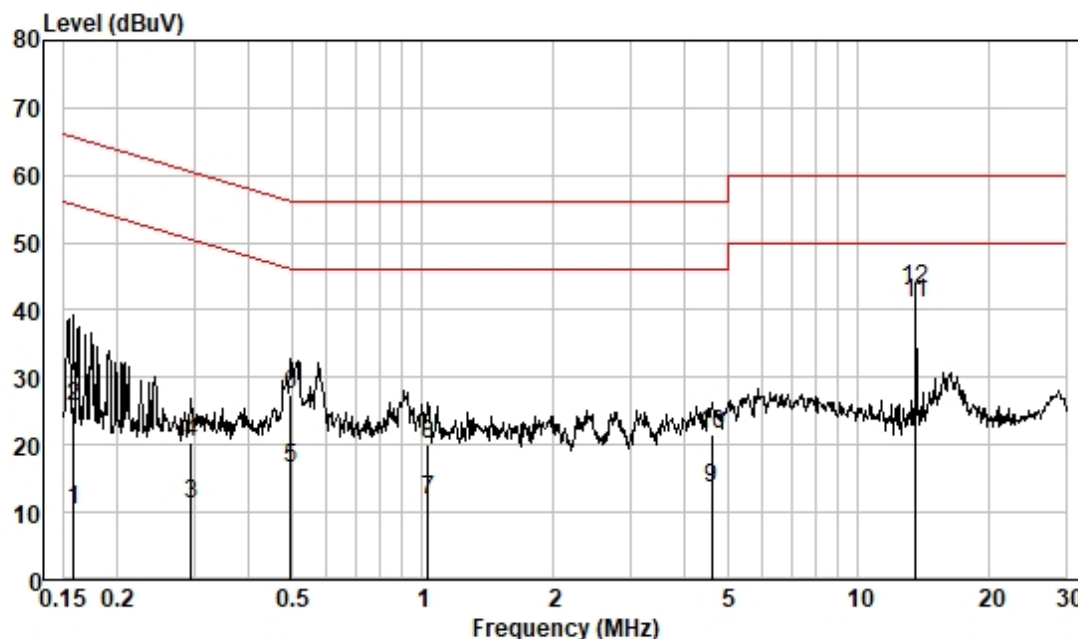
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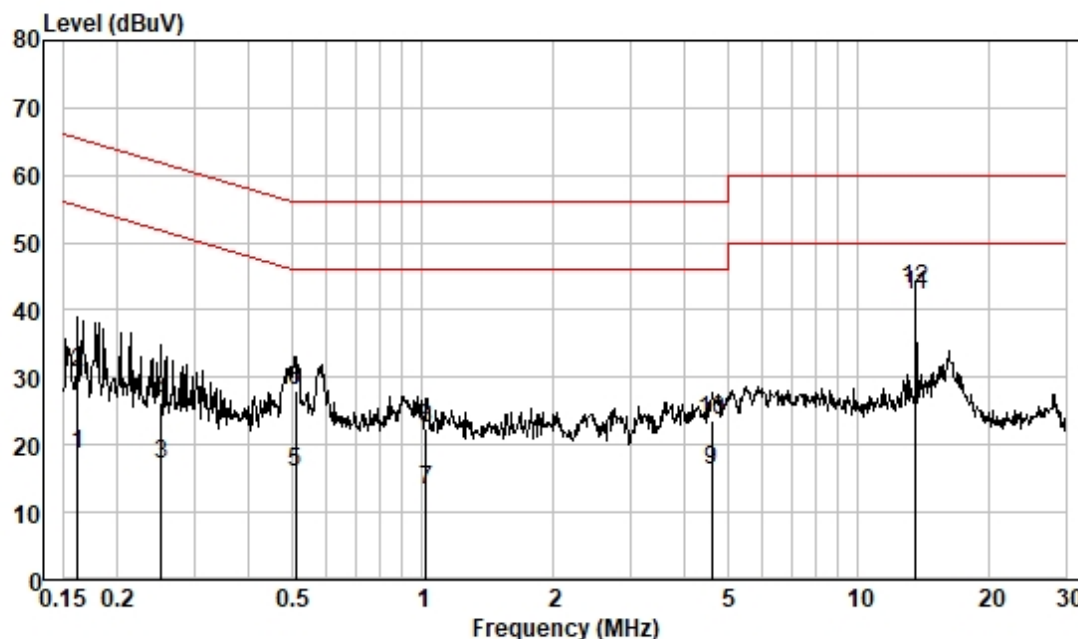
Test Mode: 03; Line: Live line for A5



Pol :LINE
Mode :RT
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.158	0.83	0.04	9.56	10.43	55.56	-45.13	Average
2	0.158	15.94	0.04	9.56	25.54	65.56	-40.02	QP
3	0.294	1.68	0.04	9.55	11.27	50.41	-39.14	Average
4	0.294	10.91	0.04	9.55	20.50	60.41	-39.91	QP
5	0.499	6.80	0.05	9.59	16.44	46.01	-29.57	Average
6	0.499	17.89	0.05	9.59	27.53	56.01	-28.48	QP
7	1.032	2.33	0.07	9.54	11.94	46.00	-34.06	Average
8	1.032	10.48	0.07	9.54	20.09	56.00	-35.91	QP
9	4.598	3.75	0.19	9.61	13.55	46.00	-32.45	Average
10	4.598	11.84	0.19	9.61	21.64	56.00	-34.36	QP
11	13.551	30.94	0.31	9.81	41.06	50.00	-8.94	Average
12	13.551	32.94	0.31	9.81	43.06	60.00	-16.94	QP

Test Mode: 03; Line: Neutral Line for A5



Pol : NEUTRAL
Mode : RT
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.162	8.91	0.04	9.53	18.48	55.38	-36.90	Average
2	0.162	21.21	0.04	9.53	30.78	65.38	-34.60	QP
3	0.252	7.59	0.04	9.53	17.16	51.69	-34.53	Average
4	0.252	16.69	0.04	9.53	26.26	61.69	-35.43	QP
5	0.513	6.32	0.05	9.58	15.95	46.00	-30.05	Average
6	0.513	18.35	0.05	9.58	27.98	56.00	-28.02	QP
7	1.021	3.73	0.07	9.56	13.36	46.00	-32.64	Average
8	1.021	12.85	0.07	9.56	22.48	56.00	-33.52	QP
9	4.598	6.33	0.19	9.63	16.15	46.00	-29.85	Average
10	4.598	13.71	0.19	9.63	23.53	56.00	-32.47	QP
11	13.551	31.97	0.31	9.87	42.15	50.00	-7.85	Average
12	13.551	32.97	0.31	9.87	43.15	60.00	-16.85	QP



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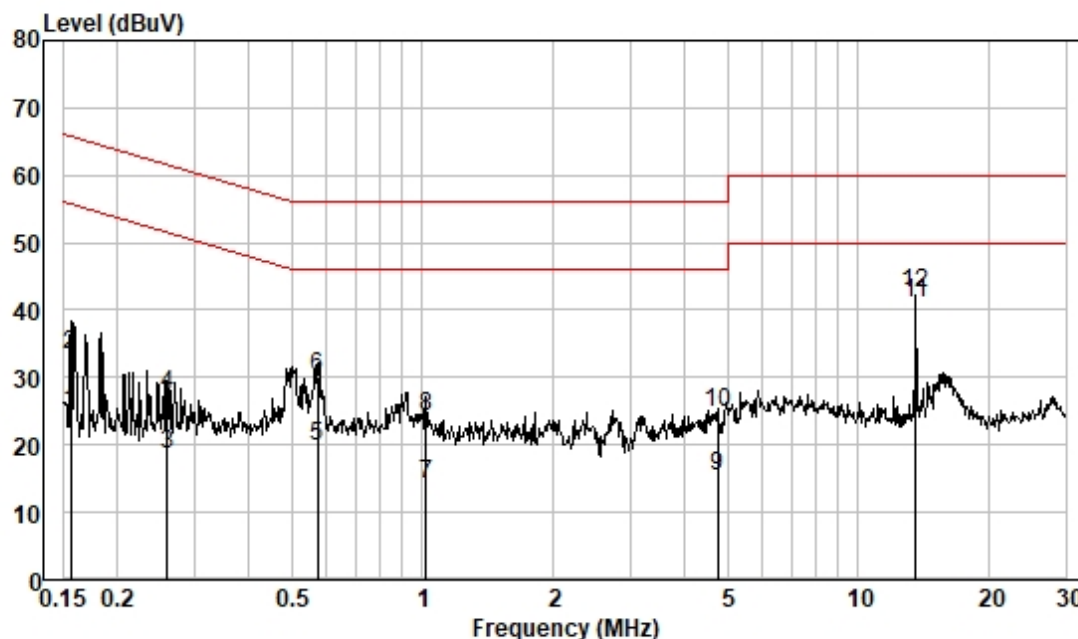
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Test Mode: 03; Line: Live line for A6



Pol :LINE
Mode :RT
Model :
Power :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	15.24	0.04	9.56	24.84	55.69	-30.85	Average
2	0.156	23.69	0.04	9.56	33.29	65.69	-32.40	QP
3	0.260	9.01	0.04	9.59	18.64	51.42	-32.78	Average
4	0.260	17.85	0.04	9.59	27.48	61.42	-33.94	QP
5	0.573	10.30	0.05	9.55	19.90	46.00	-26.10	Average
6	0.573	20.56	0.05	9.55	30.16	56.00	-25.84	QP
7	1.021	4.63	0.07	9.54	14.24	46.00	-31.76	Average
8	1.021	14.46	0.07	9.54	24.07	56.00	-31.93	QP
9	4.746	5.45	0.19	9.61	15.25	46.00	-30.75	Average
10	4.746	14.89	0.19	9.61	24.69	56.00	-31.31	QP
11	13.560	30.81	0.31	9.81	40.93	50.00	-9.07	Average
12	13.560	32.41	0.31	9.81	42.53	60.00	-17.47	QP



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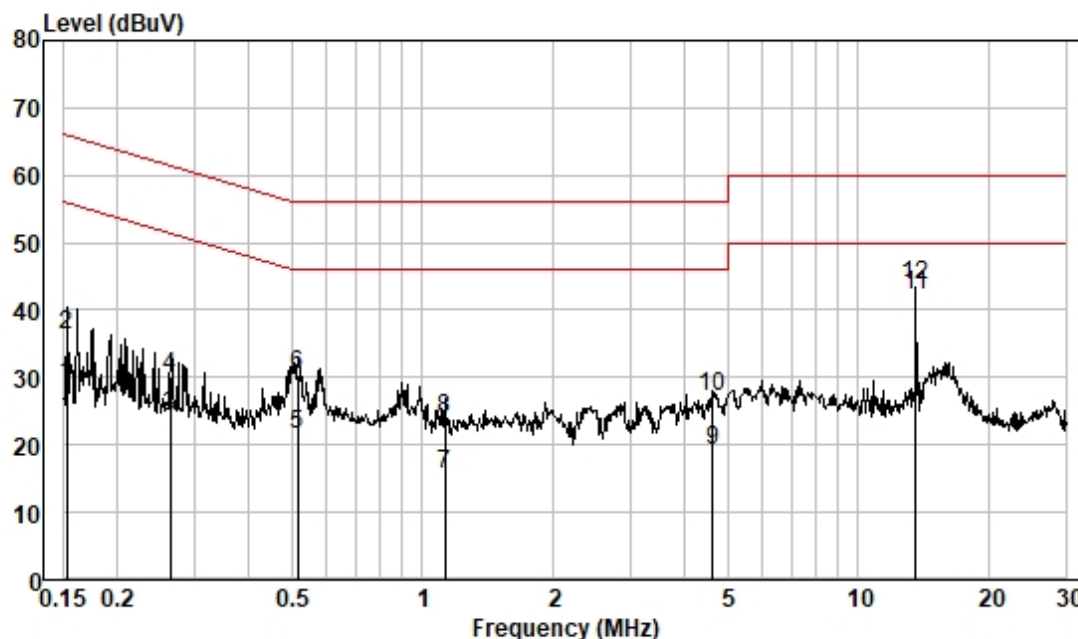
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Test Mode: 03; Line: Neutral Line for A6



Pol : NEUTRAL
Mode : RT
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	19.41	0.04	9.51	28.96	55.87	-26.91	Average
2	0.152	26.85	0.04	9.51	36.40	65.87	-29.47	QP
3	0.264	14.53	0.04	9.53	24.10	51.29	-27.19	Average
4	0.264	20.66	0.04	9.53	30.23	61.29	-31.06	QP
5	0.518	11.94	0.05	9.58	21.57	46.00	-24.43	Average
6	0.518	20.78	0.05	9.58	30.41	56.00	-25.59	QP
7	1.123	6.00	0.08	9.56	15.64	46.00	-30.36	Average
8	1.123	14.20	0.08	9.56	23.84	56.00	-32.16	QP
9	4.622	9.29	0.19	9.63	19.11	46.00	-26.89	Average
10	4.622	17.24	0.19	9.63	27.06	56.00	-28.94	QP
11	13.560	32.07	0.31	9.87	42.25	50.00	-7.75	Average
12	13.560	33.57	0.31	9.87	43.75	60.00	-16.25	QP



7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

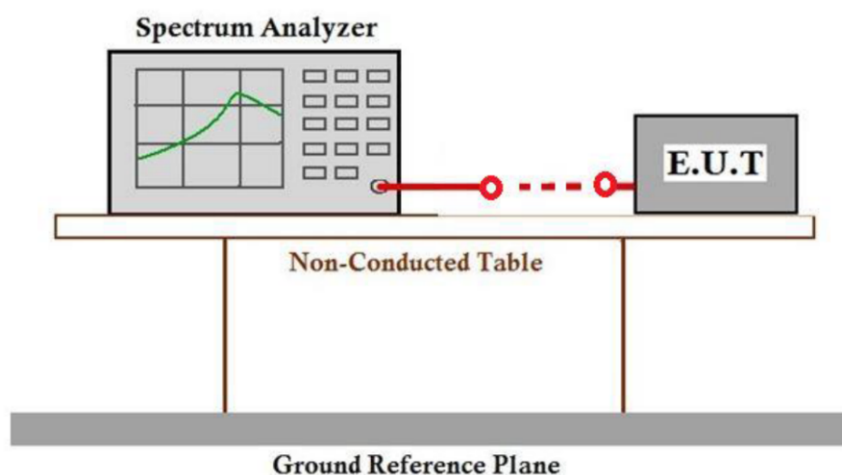
Humidity: 64.3 % RH

Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 03	Two antennas are transmitting (13.56MHz) simultaneously

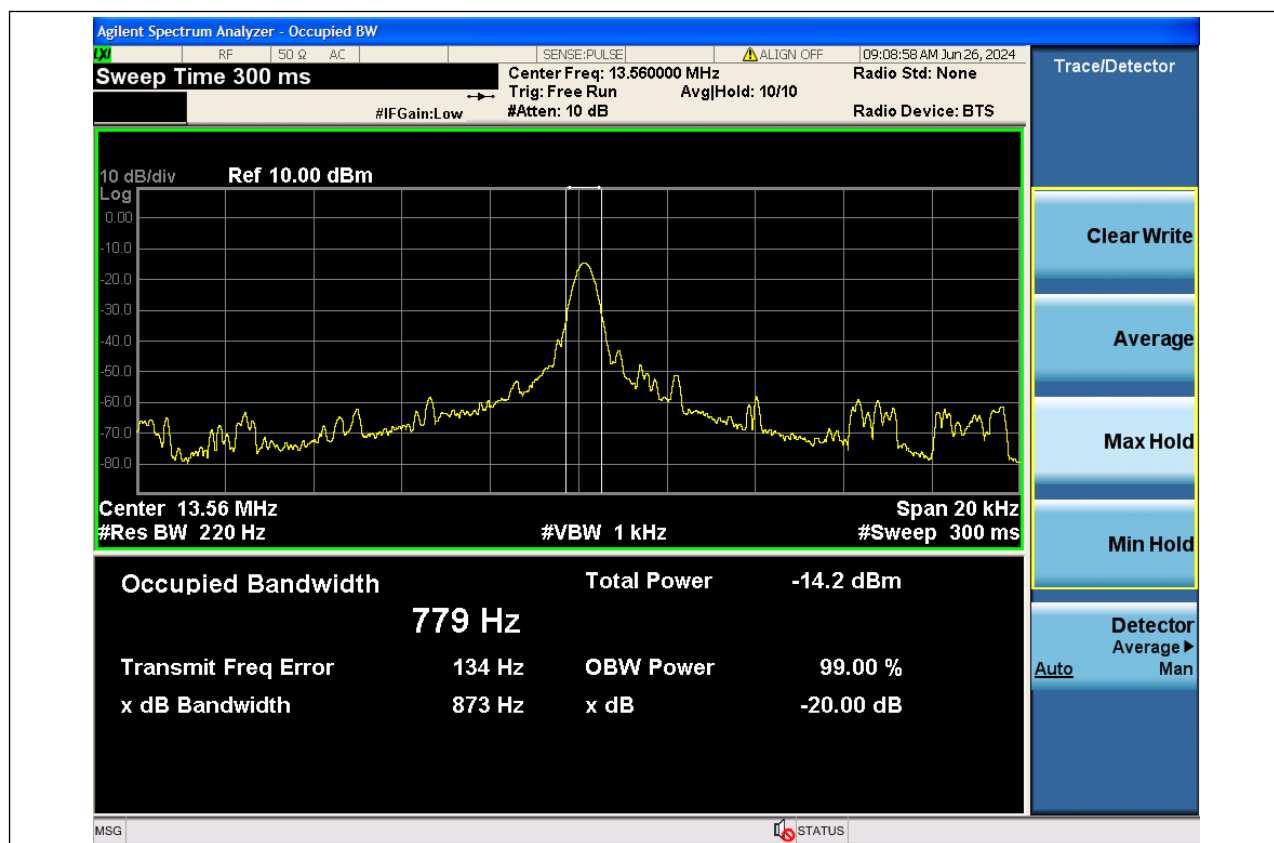
7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

operating frequency	20dB Bandwidth	Limit	Result
13.560 MHz	0.873kHz	---	Pass



Remark: The setting of RBW was the minimum for the spectrum.

7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(c)

Test Method: ANSI C63.10 (2013) Section 6.4

Limit:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The test was performed at a 3m test site.

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBμV/m at 30 meters.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

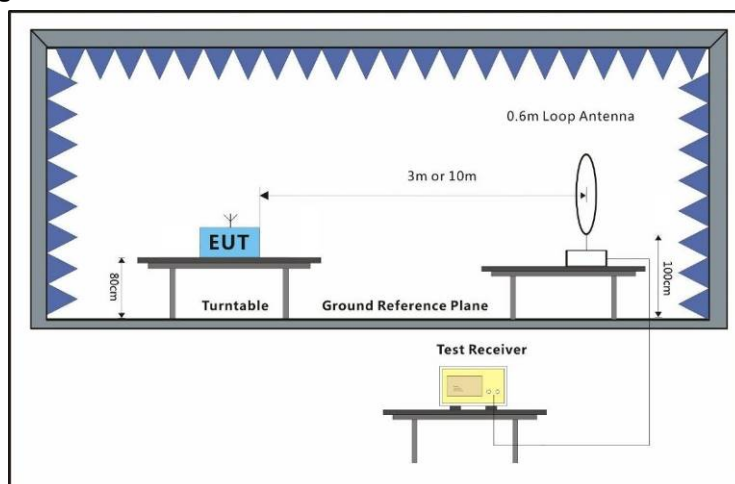
Pre-scan /	Mode	Description
Final test	Code	
Final test	03	Wireless charging mode (13.56MHz)



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

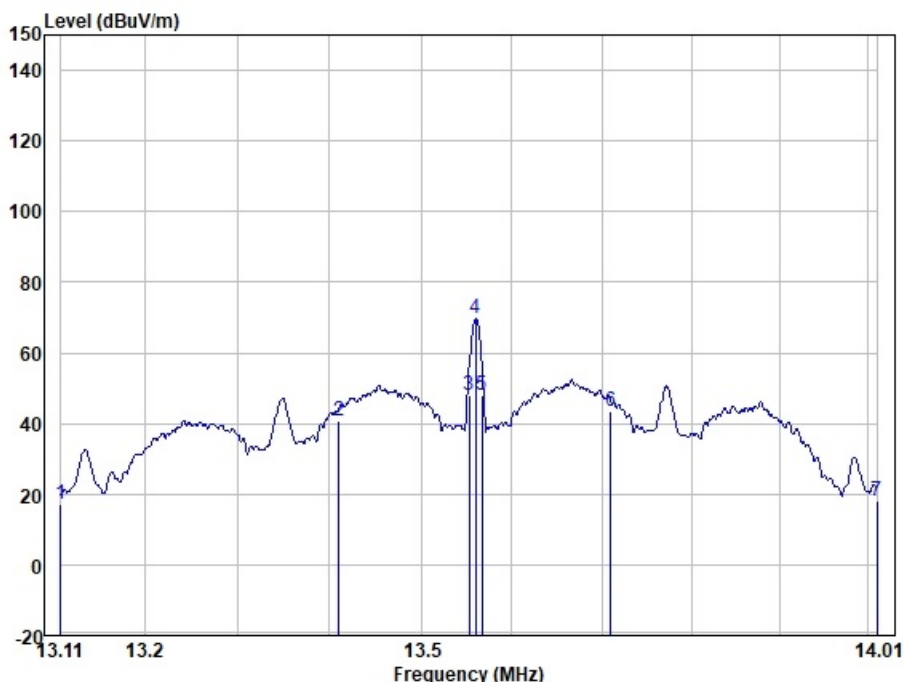
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated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

Axial:X denotes perpendicular.

Axial:Y denotes parallel

Axial:Z denotes ground-parallel

Test Mode: 02; Axial:Y



Site : 966 Chamber
Job : Y
Model :
Power :
Test Mode :

	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	13.110	38.97	10.61	0.19	32.80	16.97				QP
2	13.410	62.91	10.54	0.19	32.80	40.84				QP
3	13.553	70.16	10.51	0.20	32.81	48.06				QP
4	13.560	91.82	10.51	0.20	32.81	69.72				QP
5	13.567	70.02	10.51	0.20	32.81	47.92				QP
6	13.710	65.50	10.49	0.20	32.81	43.38				QP
7	14.010	40.44	10.43	0.20	32.81	18.26				QP

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Over limit (dB)
13.11	16.97	29.54	40	-23.03	-52.57
13.41	40.84	40.51	40	0.84	-39.67
13.55	48.06	50.47	40	8.06	-42.41
13.56	69.72	84	40	29.72	-54.28
13.57	47.92	50.47	40	7.92	-42.55
13.71	43.38	40.51	40	3.38	-37.13
14.01	18.26	29.54	40	-21.74	-51.28



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7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)
 Test Method: ANSI C63.10 (2013) Section 6.8
 Limit: Within $\pm 0.01\%$ of the operating frequency

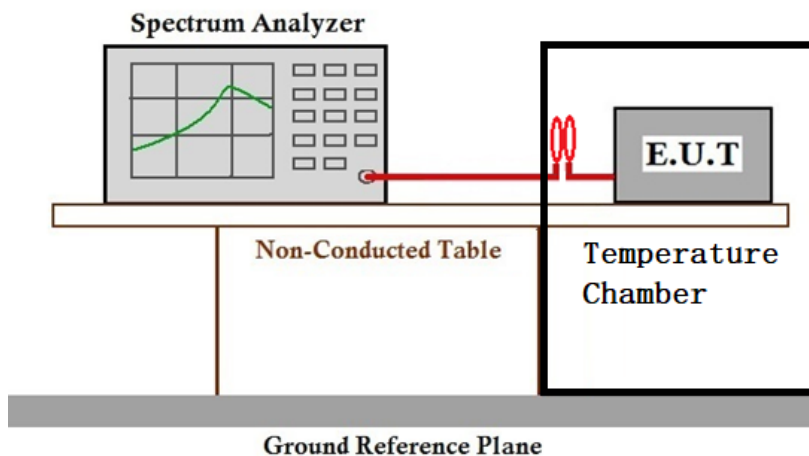
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 64.3 % RH Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 03	Two antennas are transmitting (13.56MHz) simultaneously

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

At startup:

Limit: $\pm 0.01\%$

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
V _{norm} : 120	-20	13.561023	0.0075%	Pass
	-10	13.571219	0.0827%	Pass
	0	13.571075	0.0817%	Pass
	10	13.571033	0.0814%	Pass
	T _{normal} : +20	13.570448	0.0771%	Pass
	30	13.571072	0.0817%	Pass
	40	13.57112	0.0820%	Pass
	50	13.571283	0.0832%	Pass
V _{max} : 132	T _{normal} : +20	13.57114	0.0822%	Pass
V _{min} : 108		13.571273	0.0831%	Pass

At 2 minutes later:

Limit: $\pm 0.01\%$

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
V _{norm} : 120	-20	13.560103	0.0008%	Pass
	-10	13.572519	0.0923%	Pass
	0	13.573075	0.0964%	Pass
	10	13.572133	0.0895%	Pass
	T _{normal} : +20	13.571448	0.0844%	Pass
	30	13.573072	0.0964%	Pass
	40	13.57282	0.0945%	Pass
	50	13.572483	0.0921%	Pass
V _{max} : 132	T _{normal} : +20	13.57314	0.0969%	Pass
V _{min} : 108		13.572573	0.0927%	Pass



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At 5 minutes later:

Limit: $\pm 0.01\%$

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
V _{norm} : 120	-20	13.56033	0.0024%	Pass
	-10	13.572919	0.0953%	Pass
	0	13.572675	0.0935%	Pass
	10	13.572233	0.0902%	Pass
	T _{normal} : +20	13.571648	0.0859%	Pass
	30	13.572572	0.0927%	Pass
	40	13.57222	0.0901%	Pass
	50	13.572683	0.0935%	Pass
V _{max} : 132	T _{normal} : +20	13.57274	0.0940%	Pass
V _{min} : 108		13.573173	0.0971%	Pass

At 10 minutes later:

Limit: $\pm 0.01\%$

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
V _{norm} : 120	-20	13.560723	0.0053%	Pass
	-10	13.572319	0.0908%	Pass
	0	13.572075	0.0890%	Pass
	10	13.572733	0.0939%	Pass
	T _{normal} : +20	13.571548	0.0852%	Pass
	30	13.572772	0.0942%	Pass
	40	13.57312	0.0968%	Pass
	50	13.573283	0.0980%	Pass
V _{max} : 132	T _{normal} : +20	13.57214	0.0895%	Pass
V _{min} : 108		13.572873	0.0949%	Pass



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7.5 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Test Distance: 3 m

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	30	30

Below 30MHz

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.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

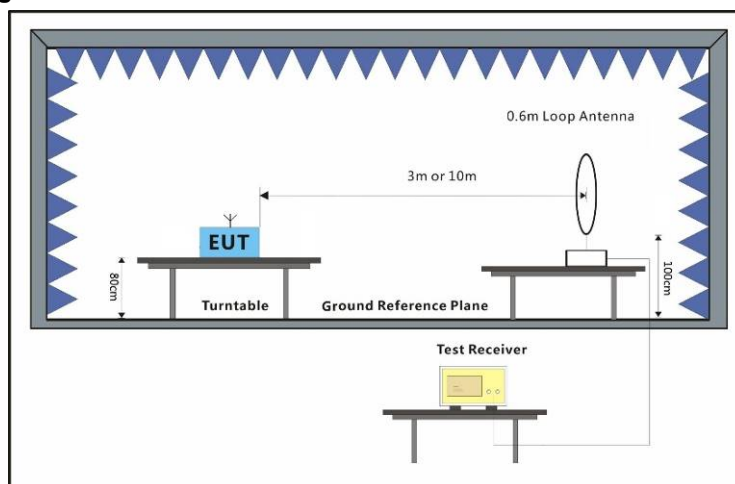
Humidity: 52.7 % RH

Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 03	Two antennas are transmitting (13.56MHz) simultaneously

7.5.3 Test Setup Diagram



7.5.4 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. Only the worst position of vertical was shown in the report.

Axial:X denotes perpendicular. Axial:Y denotes parallel. Axial:Z denotes ground-parallel



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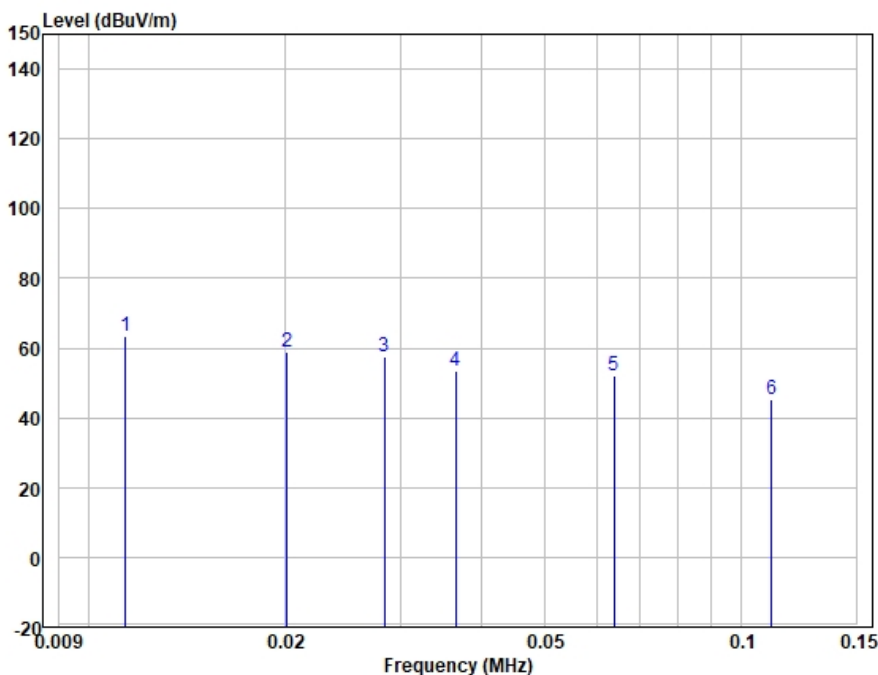
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Test Mode: 03; Axial:Y for M5



loop :
Test Mode:
Model :

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dBs/m	Preamplifier Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
0.011	75.10	0.01	20.94	32.84	63.21			
0.020	74.86	0.01	17.00	32.84	59.03			
0.028	74.35	0.01	15.83	32.84	57.35			
0.037	70.75	0.01	15.30	32.84	53.22			
0.064	69.99	0.01	14.82	32.84	51.98			
0.111	63.59	0.01	14.74	32.84	45.50			

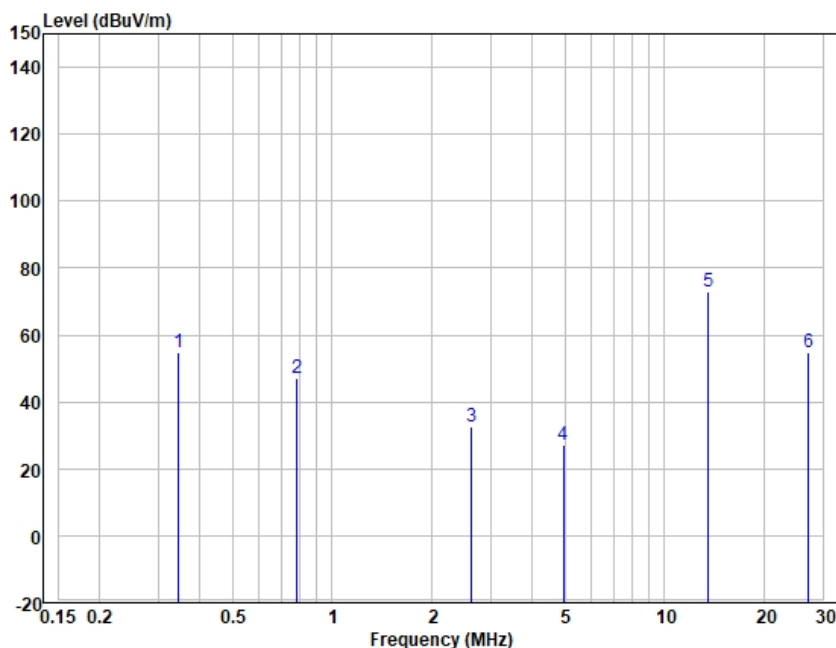
Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.011	63.21	46.78	80	-16.79	-63.57	AV
0.020	59.03	41.58	80	-20.97	-62.55	AV
0.028	57.35	38.66	80	-22.65	-61.31	AV
0.037	53.22	36.24	80	-26.78	-63.02	AV
0.064	51.98	31.48	80	-28.02	-59.50	AV
0.111	45.50	26.70	80	-34.50	-61.20	AV



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Test Mode: 03; Axial:Y for M5



loop :
Test Mode:
Model :

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dBs/m	Preamplifier Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
0.345	72.89	0.01	14.60	32.84	54.66			
0.783	66.03	0.05	13.95	32.83	47.20			
2.622	51.90	0.07	13.61	32.82	32.76			
4.952	47.50	0.10	12.55	32.82	27.33			
13.560	94.99	0.20	10.51	32.81	72.89			
27.127	80.91	0.28	6.23	32.83	54.59			

Remark: Point 5th was the fundamental frequency of the EUT.

Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.345	54.66	16.85	80	-25.34	-42.19	AV
Frequency (MHz)	Level @3m (dBuV/m)	Limit @30m (dBuV/m)	Convert Factor (dB)	Level @ 30m (dBuV/m)	Over limit (dB)	Remark
0.783	47.20	29.73	40	7.20	-22.53	QP
2.622	32.76	29.54	40	-7.24	-36.78	QP
4.952	27.33	29.54	40	-12.67	-42.21	QP
27.127	54.56	29.54	40	14.56	-14.98	QP



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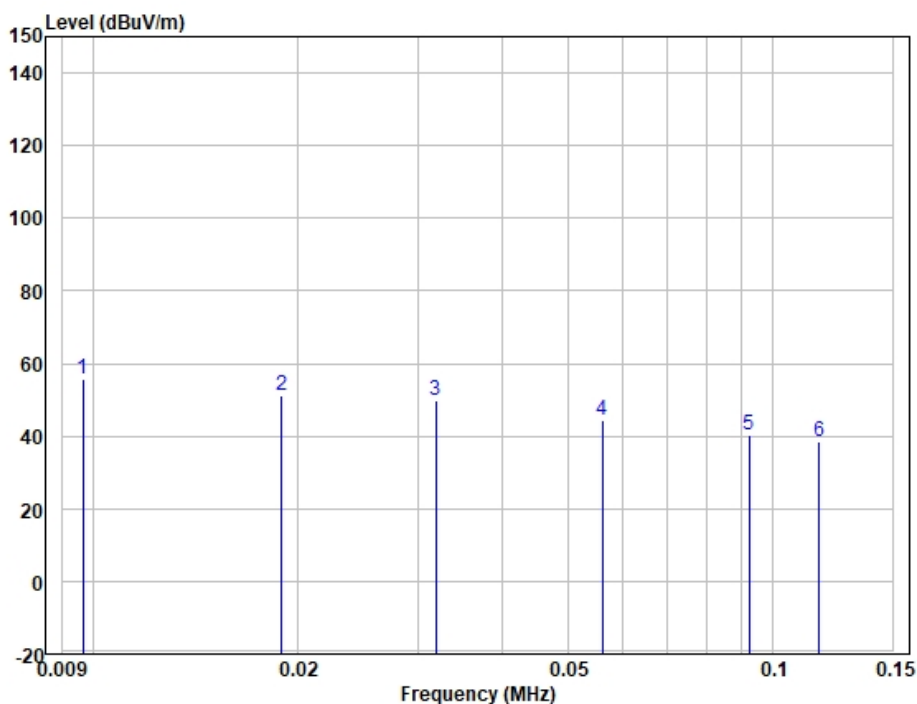
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Test Mode: 03; Axial:Y for A4



loop :
Test Mode:
Model :

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dBs/m	Preamplifier Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
0.010	66.83	0.01	21.63	32.84	55.63			
0.019	67.04	0.01	17.16	32.84	51.37			
0.032	66.83	0.01	15.64	32.84	49.64			
0.056	62.25	0.01	14.86	32.84	44.28			
0.092	58.66	0.01	14.48	32.84	40.31			
0.117	56.35	0.01	14.74	32.84	38.26			

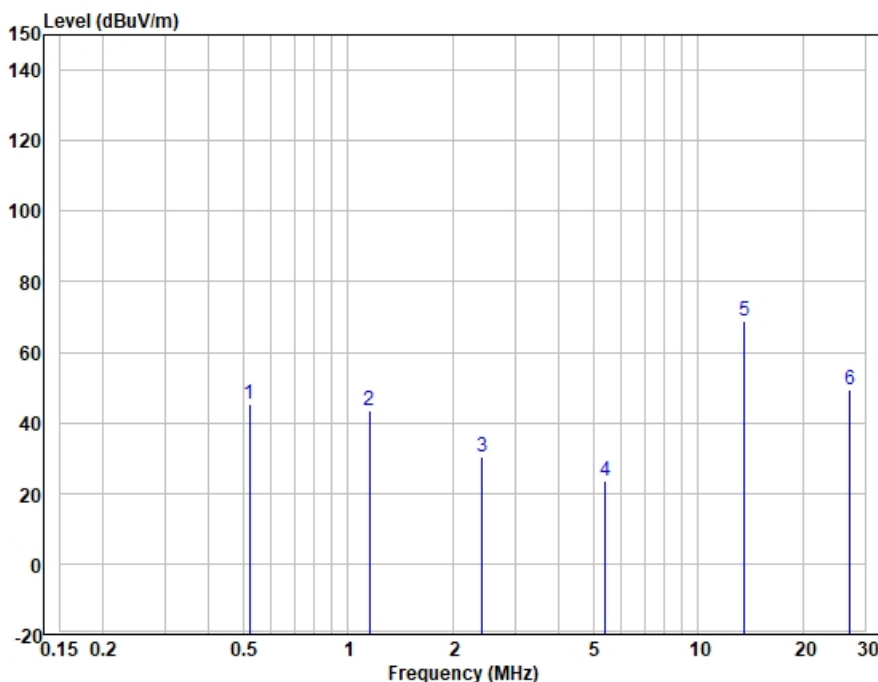
Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.010	55.63	47.60	80	-24.37	-71.97	AV
0.019	51.37	42.03	80	-28.63	-70.66	AV
0.032	49.64	37.50	80	-30.36	-67.86	AV
0.056	44.28	32.64	80	-35.72	-68.36	AV
0.092	40.31	28.33	80	-39.69	-68.02	QP
0.117	38.26	26.24	80	-41.74	-67.98	AV



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Test Mode: 03; Axial:Y for A4



loop :
Test Mode:
Model :

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dBs/m	Preamplifier Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
0.524	63.74	0.05	14.37	32.83	45.33			
1.147	62.76	0.05	13.39	32.83	43.37			
2.409	49.17	0.06	13.78	32.83	30.18			
5.419	43.54	0.10	12.61	32.82	23.43			
13.560	90.91	0.20	10.51	32.81	68.81			
27.120	75.55	0.28	6.23	32.83	49.23			

Remark: Point 5th was the fundamental frequency of the EUT.

Frequency (MHz)	Level @3m (dBuV/m)	Limit @30m (dBuV/m)	Convert Factor (dB)	Level @ 30m (dBuV/m)	Over limit (dB)	Remark
0.524	45.33	33.22	40	5.33	-27.89	QP
1.147	43.37	26.41	40	3.37	-23.04	QP
2.409	30.18	29.54	40	-9.82	-39.36	QP
5.419	23.43	29.54	40	-16.57	-46.11	QP
13.56	68.81	29.54	40	28.81	-0.73	QP
27.12	49.23	29.54	40	9.23	-20.31	QP



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7.6 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

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 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

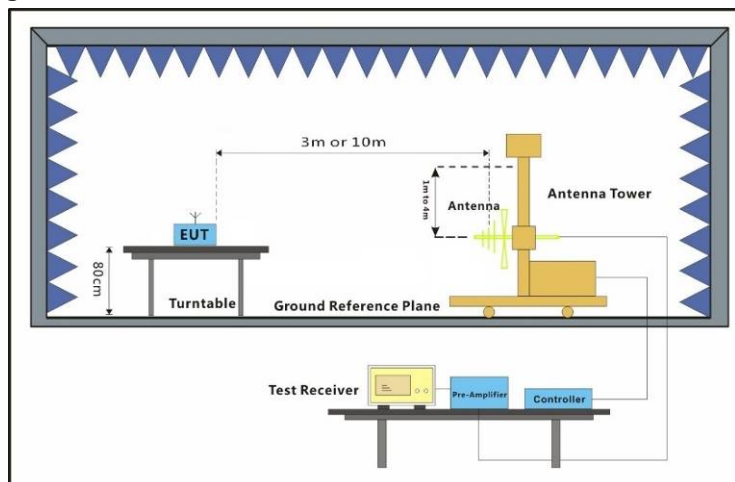
Humidity: 52.2 % RH

Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 03	Two antennas are transmitting (13.56MHz) simultaneously

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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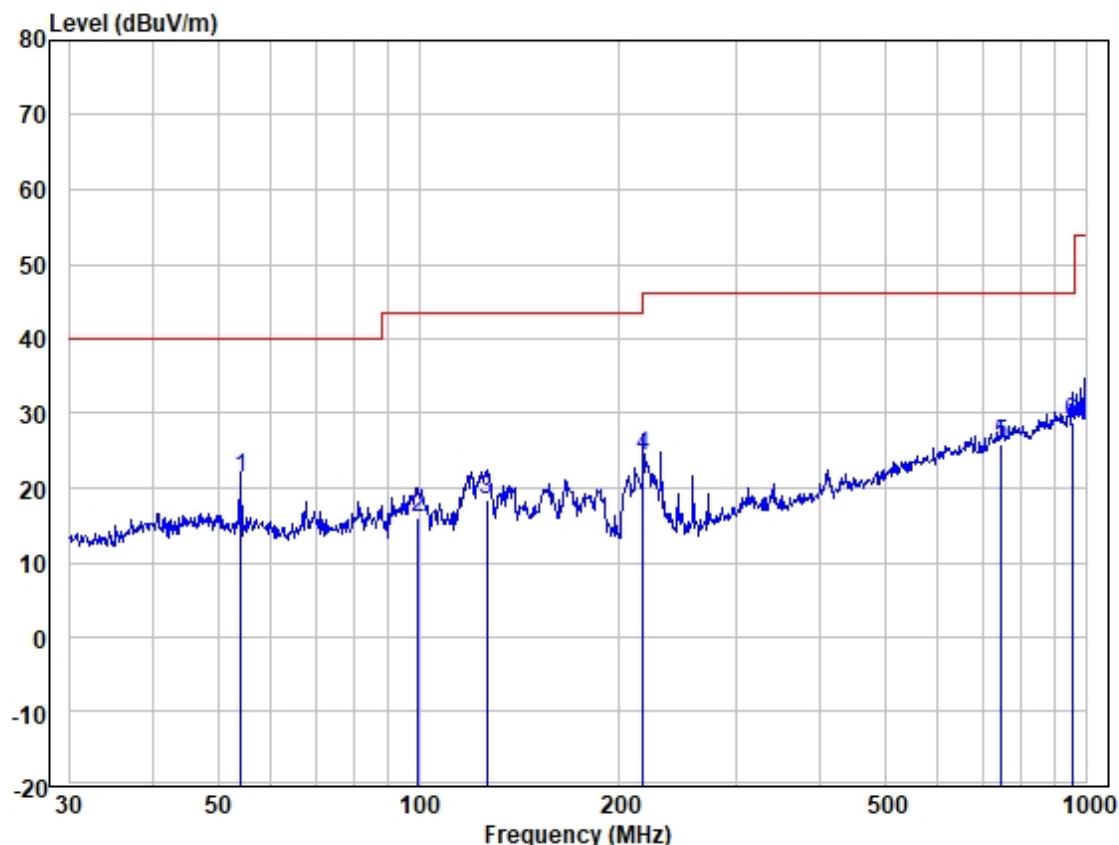
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Test Mode: 03; Polarity: Horizontal for M5



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : wireless charging

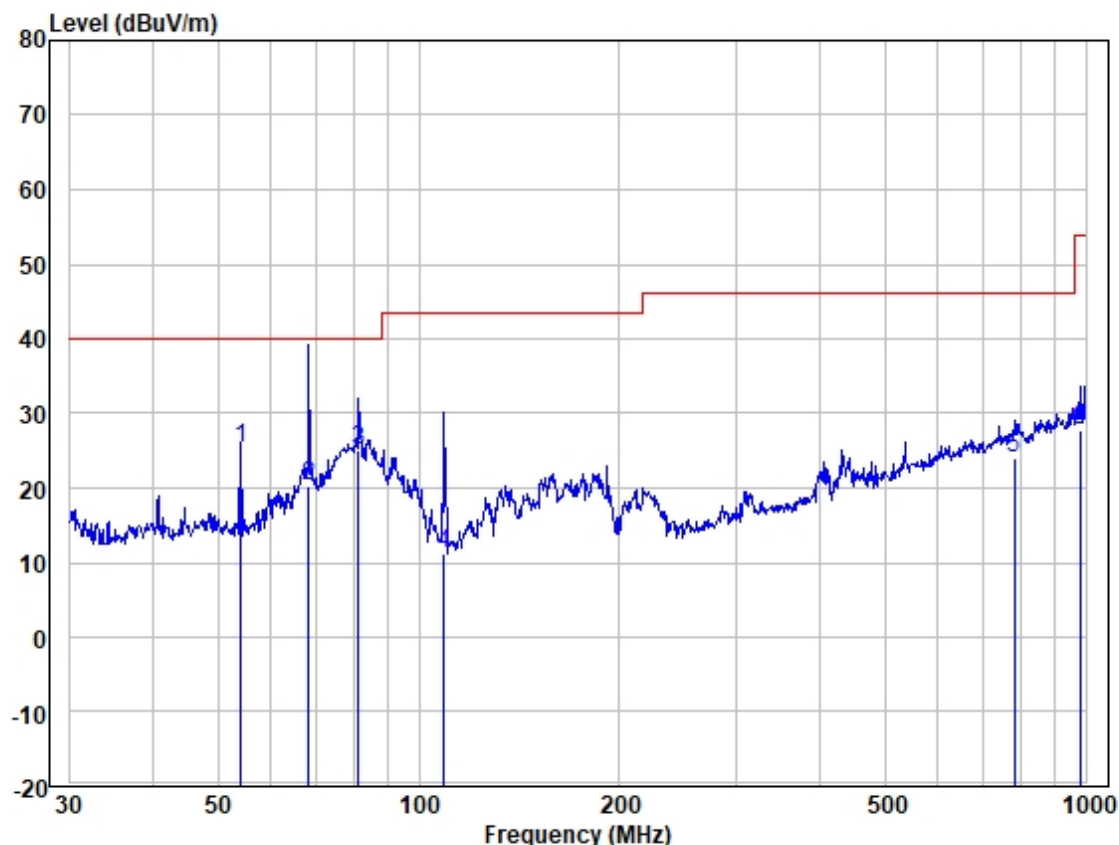
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	54.261	34.33	19.33	0.40	32.80	21.26	40.00	-18.74	HORIZONTAL	QP
2	99.878	33.77	14.55	0.54	32.80	16.06	43.52	-27.46	HORIZONTAL	QP
3	126.329	32.73	17.76	0.61	32.80	18.30	43.52	-25.22	HORIZONTAL	QP
4	216.783	40.62	15.66	0.81	32.80	24.29	46.02	-21.73	HORIZONTAL	QP
5	747.483	28.79	28.13	1.59	32.53	25.98	46.02	-20.04	HORIZONTAL	QP
6	952.094	28.35	29.76	1.80	31.10	28.81	46.02	-17.21	HORIZONTAL	QP



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Test Mode: 03; Polarity: Vertical for M5



Site : 966 Chamber
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	54.261	38.30	19.33	0.40	32.80	25.23	40.00	-14.77	VERTICAL	QP
2	68.391	35.30	17.37	0.45	32.80	20.32	40.00	-19.68	VERTICAL	QP
3	81.212	42.34	14.98	0.50	32.80	25.02	40.00	-14.98	VERTICAL	QP
4	109.029	27.42	15.92	0.57	32.80	11.11	43.52	-32.41	VERTICAL	QP
5	779.607	26.40	28.40	1.65	32.35	24.10	46.02	-21.92	VERTICAL	QP
6	979.180	26.71	29.96	1.83	30.81	27.69	53.98	-26.29	VERTICAL	QP



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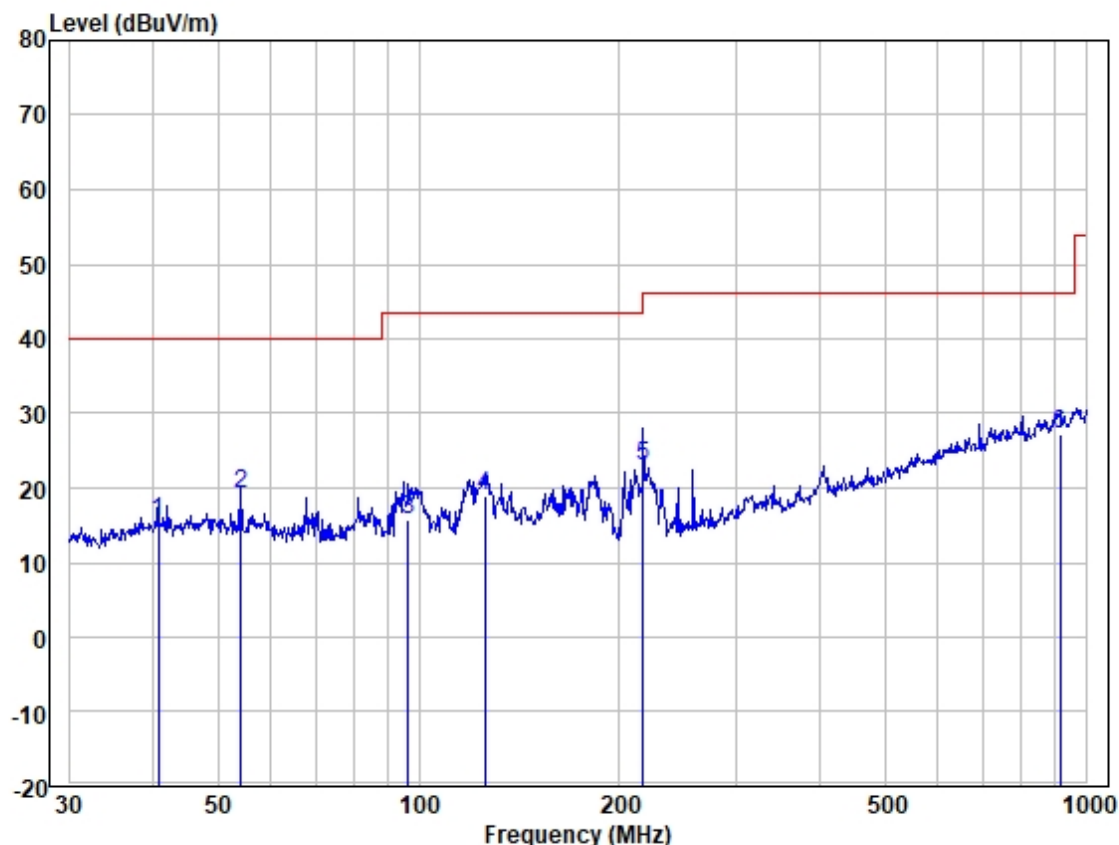
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Test Mode: 03; Polarity: Horizontal for A4



Site : 966 Chamber
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	40.702	28.79	19.16	0.35	32.82	15.48	40.00	-24.52	HORIZONTAL	QP
2	54.261	32.38	19.33	0.40	32.80	19.31	40.00	-20.69	HORIZONTAL	QP
3	96.436	33.88	14.00	0.53	32.80	15.61	43.52	-27.91	HORIZONTAL	QP
4	125.446	33.45	17.69	0.61	32.80	18.95	43.52	-24.57	HORIZONTAL	QP
5	216.783	39.21	15.66	0.81	32.80	22.88	46.02	-23.14	HORIZONTAL	QP
6	912.862	27.57	29.51	1.77	31.54	27.31	46.02	-18.71	HORIZONTAL	QP



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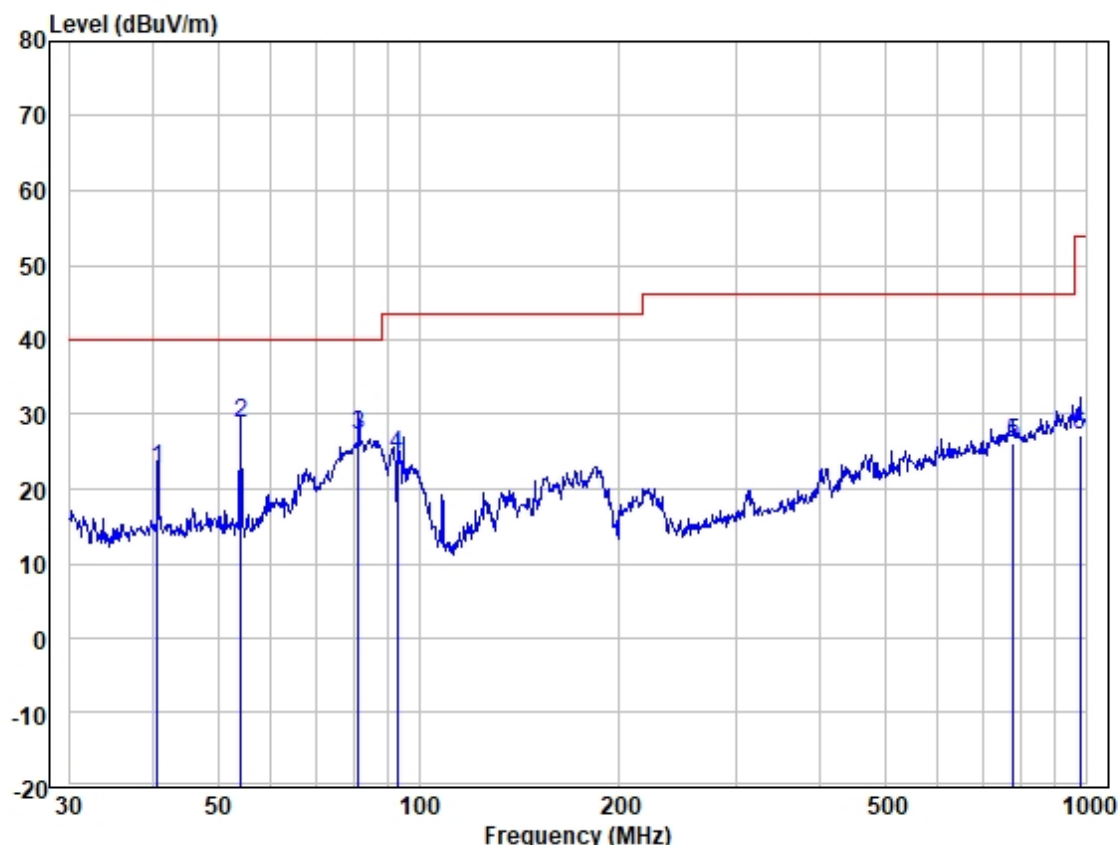
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Test Mode: 03; Polarity: Vertical for A4



Site : 966 Chamber
 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	40.559	36.09	19.16	0.35	32.82	22.78	40.00	-17.22	VERTICAL	QP
2	54.261	41.97	19.33	0.40	32.80	28.90	40.00	-11.10	VERTICAL	QP
3	81.212	44.58	14.98	0.50	32.80	27.26	40.00	-12.74	VERTICAL	QP
4	92.787	42.98	13.79	0.53	32.80	24.50	43.52	-19.02	VERTICAL	QP
5	776.878	28.36	28.38	1.64	32.35	26.03	46.02	-19.99	VERTICAL	QP
6	979.180	26.18	29.96	1.83	30.81	27.16	53.98	-26.82	VERTICAL	QP



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SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch, Testing Center, EEC Laboratory.

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8 Test Setup Photo

Refer to setup Photos for GZCR240600059008



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2406000590LM

- End of the Report -



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