

TEST REPORT

Application No.: FYCR2606000050AT

Applicant: Shenzhen Joway Power Supply Co., Ltd.

Address of Applicant: Blog 10th & 11th, Antuoshan High-Tech Industrial Park, Shajing Street, Shenzhen, China

Manufacturer: Shenzhen Joway Power Supply Co., Ltd.

Address of Manufacturer: Blog 10th & 11th, Antuoshan High-Tech Industrial Park, Shajing Street, Shenzhen, China

Factory: Shenzhen Joway Power Supply Co., Ltd.

Address of Factory: Blog 10th & 11th, Antuoshan High-Tech Industrial Park, Shajing Street, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Wireless charging power

Model No.: HG14995A-US, HG14995B-US, HG14995C-US, HG14995A, HG14995B, HG14995C ♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: **TRONIC®**

FCC ID: 2AEZ4-HG14995A-US

Standard(s) : 47 CFR Part 15, Subpart C

Date of Receipt: 2026-06-05

Date of Test: 2026-06-10 to 2026-08-11

Date of Issue: 2026-08-13

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



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SZCCS-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-13		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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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
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2020) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Restricted Bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass

Remark:

Hybrid mode uses input 5 V, 3 A, with wireless charging validated at 5 W. All rated input tests underwent full pre-scanning under single-input single-output maximum-load conditions. The 9V ,2A condition at maximum WPT coupling was confirmed as the worst-case configuration, and all formal measurements were executed on this test setup.

Declaration of EUT Family Grouping:

Model No.: HG14995A-US, HG14995B-US, HG14995C-US, HG14995A, HG14995B, HG14995C

Only the model HG14995A was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on the color and the country of sale.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Capacity: 5000mAh, 19.35Wh Input: Type-C: 5V 3A, 9V 2A Output: Type-C: 5V 3A, 9V 2.22A Wireless Output: 5W(BPP), 7.5W/10W(Samsung), 15W(MPP)
Operation frequency:	127.43-128.09kHz & 333.48-384.54kHz
Modulation type:	Load modulation
Antenna type:	Wireless Charging Coil

Remark:

1. The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.
2. Single port working: Type-C up to 20W; Wireless charging up to 15W.
3. Type-C & wireless charging work together: Fast charging function suspended, shared total output 5V 3A with wireless charging at 5W.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Nokia	AD-18WC	REF. No.SEA05J01A
Type-C Cable	UGREEN	N/A	REF. No.SEA07D01D
E-loading	SGS	N/A	REF. No.SEA42A00
iphone 16 pro	Apple	MYLU3CH/A	REF. No.SEA16Q03
Mobile Phone	SAMSUNG	SM-G998U1	REF. No.SEA16K01

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.2dB
Radiated Emissions (9kHz-30MHz)	± 2.3dB
Radiated Emissions (30MHz-1GHz)	± 5.7dB
20dB Bandwidth	± 0.27%
Restricted Bands	± 0.27%



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Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (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.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.4 Test Location

All tests were performed at:

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Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.



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5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025/10/13	2028/10/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-24	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM033-02	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2025/7/21	2026/7/20
				2026-07-03	2027-07-02
Pre-amplifier	HP	8447D	SEM005-02	2025/7/21	2026/7/20
				2026-07-07	2027-07-06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/08/28
MXE EMI receiver	Agilent	N9038A	SEM004-05	2025/7/21	2026/7/20
				2026-07-03	2027-07-02
Pre-amplifier	HP	8447D	SEM005-02	2025/7/21	2026/7/20
				2026-07-07	2027-07-06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
				2026-07-08	2027-07-07
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
				2026-04-01	2027-03-31
Barometer	DUMAI	DYM3	SEM002-01	2026-02-14	2027-02-13



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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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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.

Refer to internal photos



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Fly Yan

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charging mode Keep the EUT pairing with Type C in + Wireless output 1: 5W
Pre-scan	07	Standby: Keep the EUT standby (Charging)

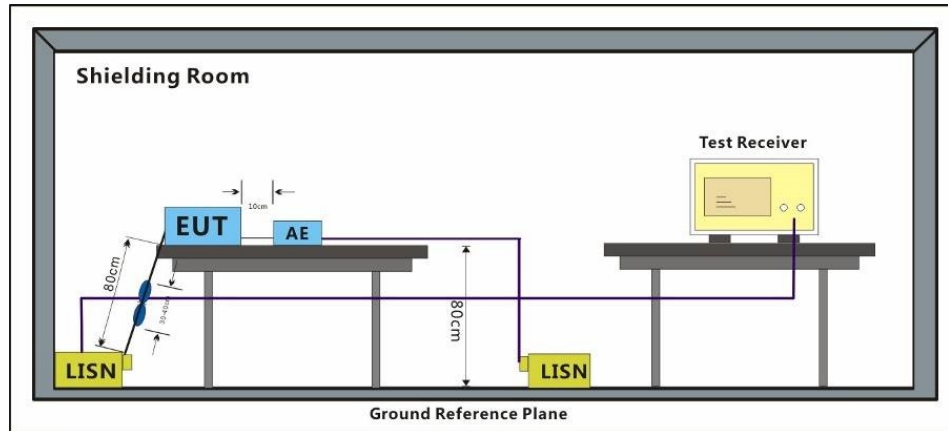


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7.1.3 Test Setup Diagram



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

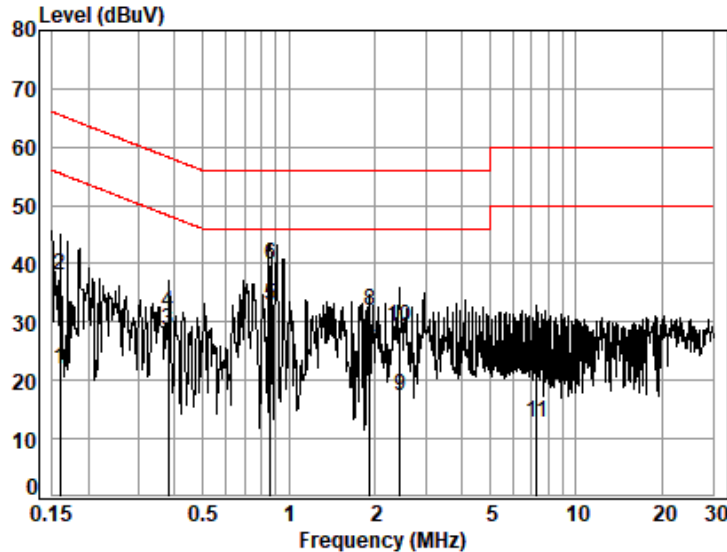
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Test Mode: 06; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00050AT
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.02	9.80	12.13	21.95	55.52	-33.57	Average
2	0.1590	0.02	9.80	28.25	38.07	65.52	-27.45	QP
3	0.3811	0.05	9.70	18.92	28.67	48.25	-19.58	Average
4	0.3811	0.05	9.70	21.88	31.63	58.25	-26.62	QP
5	0.8618	0.06	9.88	23.03	32.97	46.00	-13.03	Average
6	0.8618	0.06	9.88	29.94	39.88	56.00	-16.12	QP
7	1.9182	0.04	9.77	15.05	24.86	46.00	-21.14	Average
8	1.9182	0.04	9.77	22.08	31.89	56.00	-24.11	QP
9	2.4346	0.04	9.86	7.55	17.45	46.00	-28.55	Average
10	2.4346	0.04	9.86	19.28	29.18	56.00	-26.82	QP
11	7.2903	0.04	9.74	3.02	12.80	50.00	-37.20	Average
12	7.2903	0.04	9.74	12.76	22.54	60.00	-37.46	QP



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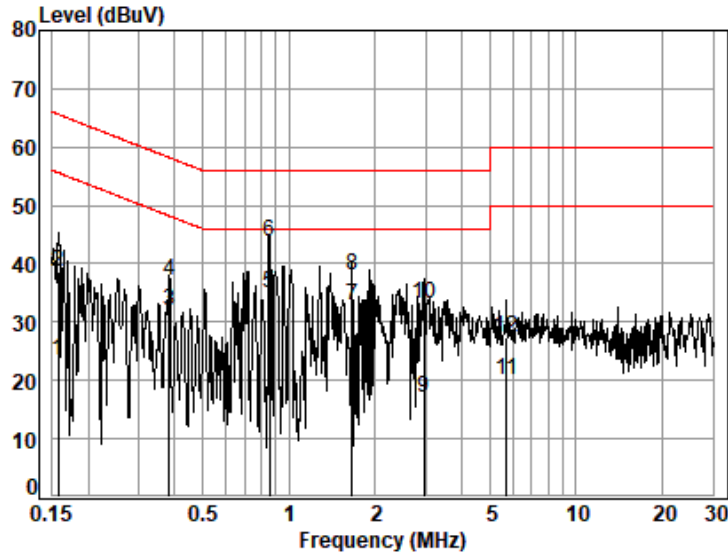
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Test Mode: 06; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00050AT
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.02	9.71	13.72	23.45	55.60	-32.15	Average
2	0.1573	0.02	9.71	28.93	38.66	65.60	-26.94	QP
3	0.3832	0.05	9.73	22.20	31.98	48.21	-16.23	Average
4	0.3832	0.05	9.73	27.28	37.06	58.21	-21.15	QP
5	0.8573	0.06	9.71	25.24	35.01	46.00	-10.99	Average
6	0.8573	0.06	9.71	34.12	43.89	56.00	-12.11	QP
7	1.6625	0.04	9.80	23.10	32.94	46.00	-13.06	Average
8	1.6625	0.04	9.80	28.33	38.17	56.00	-17.83	QP
9	2.9463	0.04	9.73	7.17	16.94	46.00	-29.06	Average
10	2.9463	0.04	9.73	23.45	33.22	56.00	-22.78	QP
11	5.7438	0.05	9.48	10.55	20.08	50.00	-29.92	Average
12	5.7438	0.05	9.48	17.92	27.45	60.00	-32.55	QP



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7.2 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

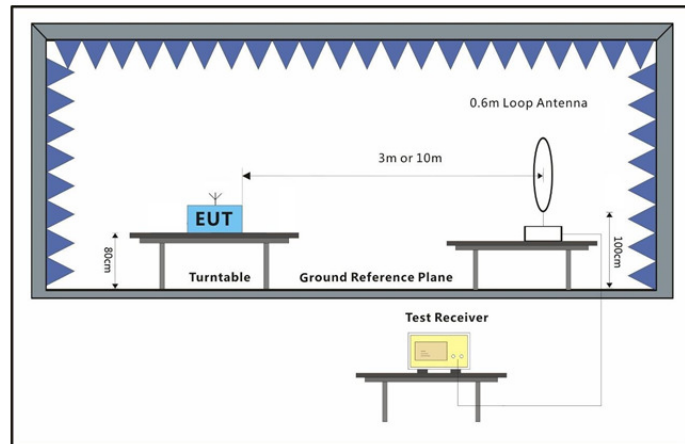
Humidity: 51.6 % RH

Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation (Wireless): Keep the EUT pairing with Devices (Output1:5W).
Final test	01	Operation (Wireless): Keep the EUT pairing with Devices (Output1:7.5W).
Pre-scan	02	Operation (Wireless): Keep the EUT pairing with Devices (Output1:10W).
Final test	03	Operation (Wireless): Keep the EUT pairing with Devices (Output1:15W).
Pre-scan	04	Operation (Wireless): Keep the EUT pairing with Devices (Output1:5W) + USB-C out
Pre-scan	05	Standby mode Keep the EUT standby (Operation)
Pre-scan	06	Charging mode Keep the EUT pairing with Type C in + Wireless output 1: 5W
Pre-scan	07	Standby:Keep the EUT standby (Charging)

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - i. its centre shall be at 1.3 m height above the ground plane;
 - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
 - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
 - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
 - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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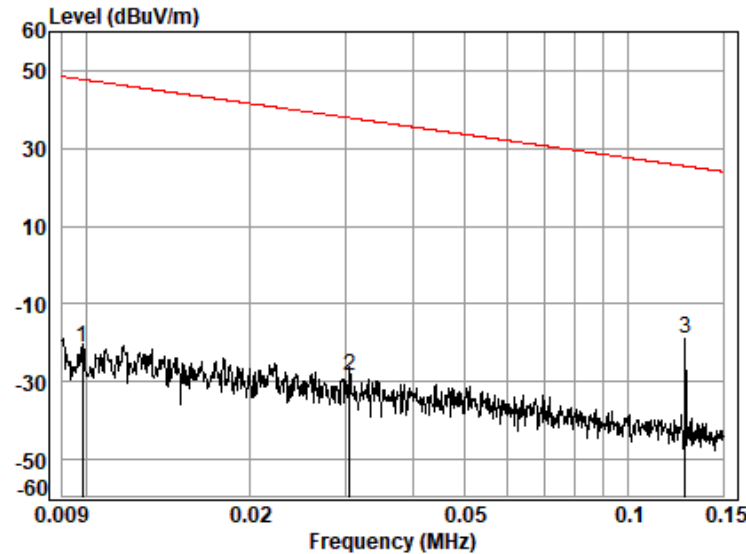
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Test Mode: 01 0.009-0.15MHz Coaxial



Site : chamber
Condition: 3m
Job No. : 00050AT
Test Mode: 01
: coaxial

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	18.45	0.22	30.76	70.73	-21.36	47.74	-69.10	Average
2	0.031	12.02	0.26	31.51	70.81	-28.42	37.88	-66.30	Average
3	0.128	9.90	0.32	32.19	82.86	-19.11	25.47	-44.58	Average



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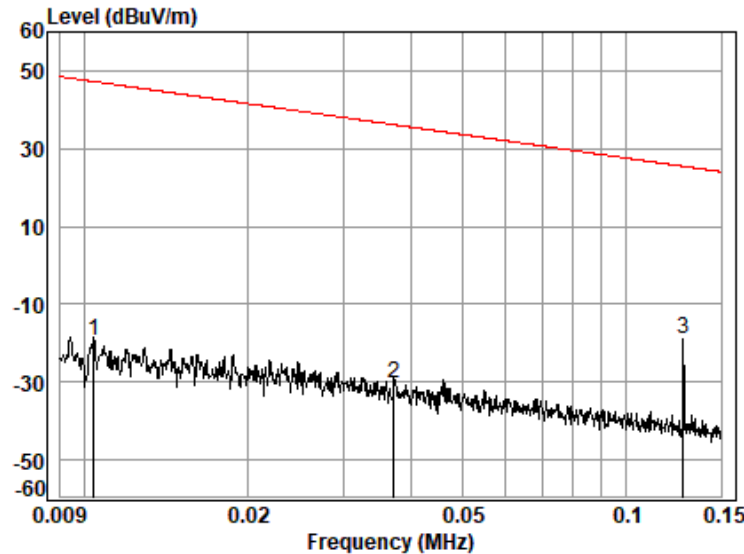
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Test Mode: 01 0.009-0.15MHz Coplanar



Site : chamber

Condition: 3m

Job No. : 00050AT

Test Mode: 01

: coplanar

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	18.09	0.22	30.79	73.09	-19.39	47.28	-66.67	Average
2	0.037	11.45	0.27	31.64	69.37	-30.55	36.17	-66.72	Average
3	0.128	9.90	0.32	32.19	82.93	-19.04	25.47	-44.51	Average



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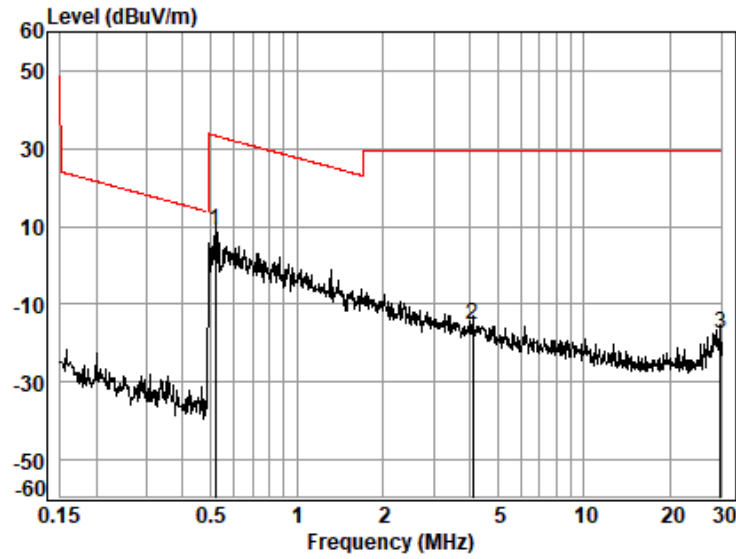
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Test Mode: 01 0.15-30MHz Coaxial



Site : chamber
Condition: 3m
Job No. : 00050AT
Test Mode: 01
: coaxial

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.518	9.58	0.41	32.68	71.67	8.98	33.31	-24.33 Average
2	4.092	9.28	0.40	33.20	48.31	-15.21	29.50	-44.71 QP
3	29.841	5.23	0.66	33.10	49.73	-17.48	29.50	-46.98 QP



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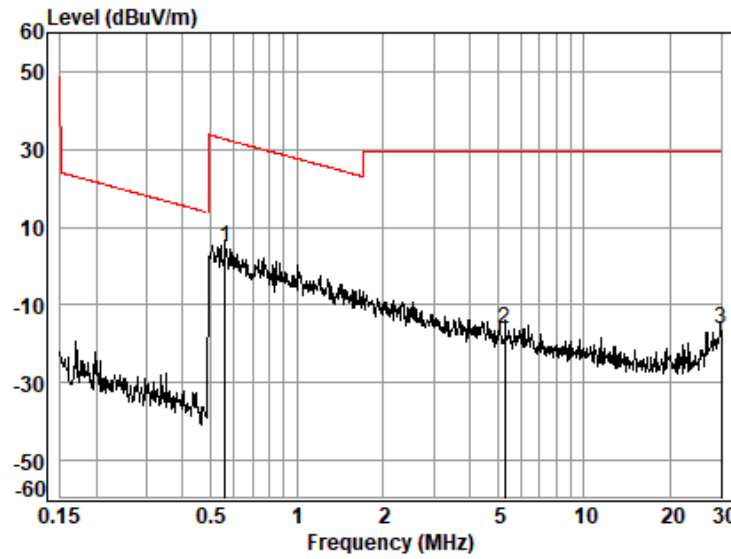
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Test Mode: 01 0.15-30MHz Coplanar



Site : chamber

Condition: 3m

Job No. : 00050AT

Test Mode: 01

: coplanar

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.564	9.57	0.41	32.63	67.47	4.82	32.58	-27.76 Average
2	5.305	9.19	0.42	33.19	47.59	-15.99	29.50	-45.49 QP
3	30.000	5.19	0.67	33.10	50.84	-16.40	29.50	-45.90 QP

Note: EUT meets FCC §15.209(c). Peaks above fundamental frequency is ambient noise, verified via EUT power ON/OFF test.



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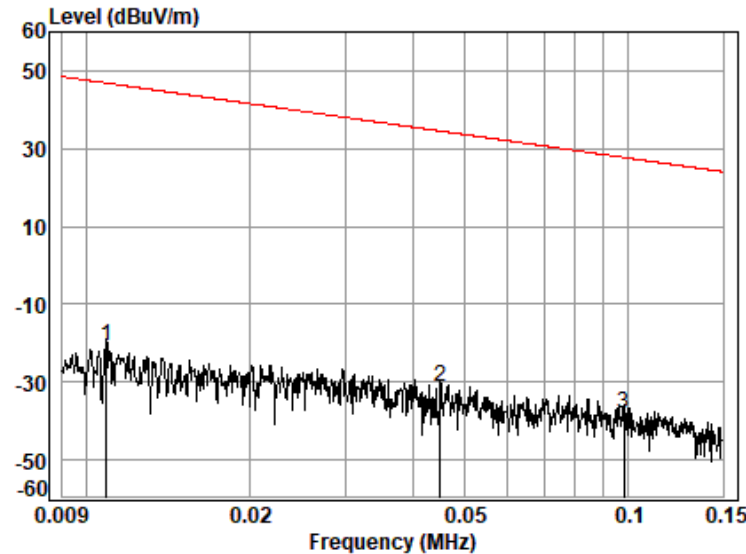
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Test Mode: 03 0.009-0.15MHz Coaxial



Site : chamber
Condition: 3m
Job No. : 00050AT
Test Mode: 03
: coaxial

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	17.79	0.23	30.83	71.91	-20.90	46.86	-67.76	Average
2	0.045	10.99	0.27	31.77	69.23	-31.28	34.53	-65.81	Average
3	0.098	10.04	0.30	32.29	64.02	-37.93	27.74	-65.67	Average



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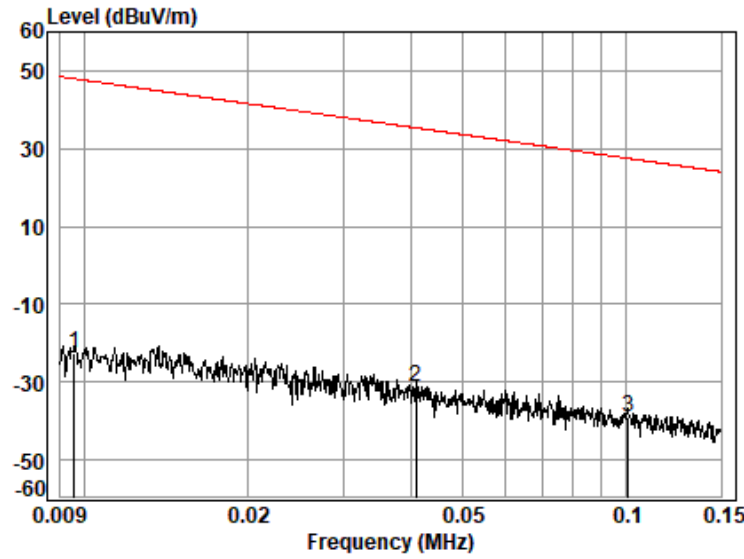
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Test Mode: 03 0.009-0.15MHz Coplanar



Site : chamber

Condition: 3m

Job No. : 00050AT

Test Mode: 03

: coplanar

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	18.64	0.22	30.74	69.23	-22.65	47.99	-70.64	Average
2	0.041	11.19	0.27	31.71	68.84	-31.41	35.36	-66.77	Average
3	0.101	10.02	0.30	32.30	63.13	-38.85	27.52	-66.37	Average



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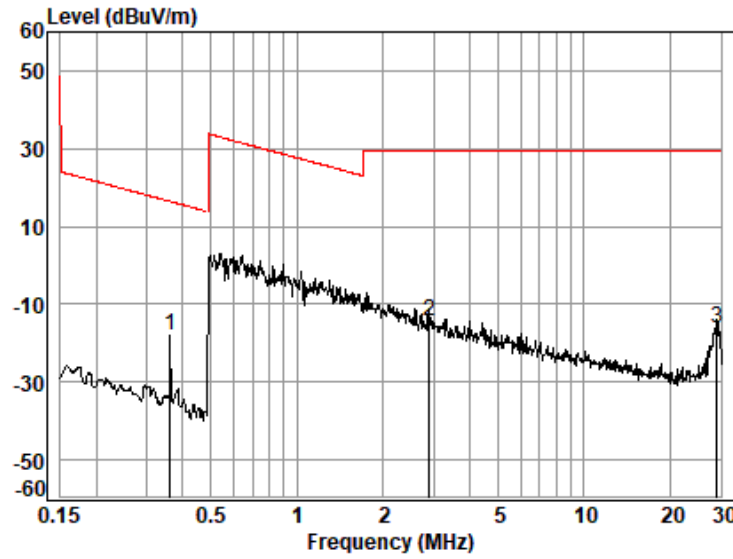
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Test Mode: 03 0.15-30MHz Coaxial



Site : chamber
Condition: 3m
Job No. : 00050AT
Test Mode: 03
: coaxial

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.361	9.64	0.46	32.13	84.07	-17.96	16.44	-34.40 Average
2	2.900	9.36	0.41	33.17	49.20	-14.20	29.50	-43.70 QP
3	29.061	5.42	0.63	33.11	50.98	-16.08	29.50	-45.58 QP



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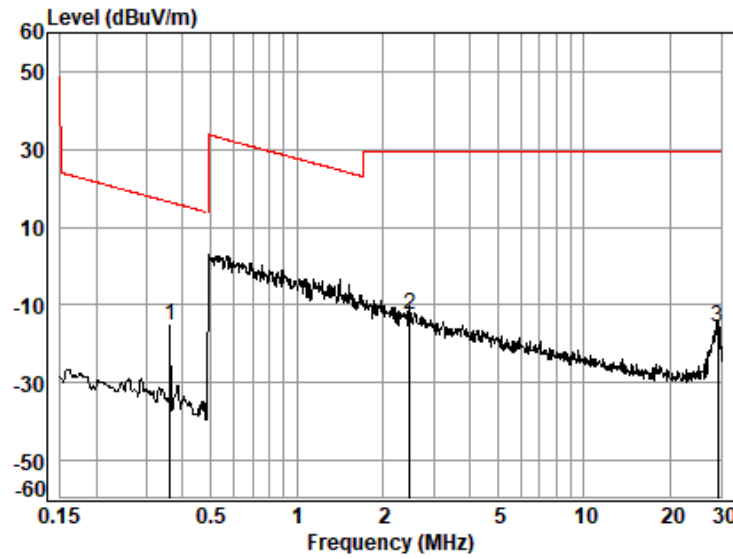
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Test Mode: 03 0.15-30MHz Coplanar



Site : chamber

Condition: 3m

Job No. : 00050AT

Test Mode: 03

: coplanar

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.361	9.64	0.46	32.13	86.62	-15.41	16.44	-31.85
2	2.474	9.39	0.41	33.04	50.79	-12.45	29.50	-41.95
3	29.216	5.38	0.63	33.11	51.22	-15.88	29.50	-45.38

Note: EUT meets FCC §15.209(c). Peaks above fundamental frequency is ambient noise, verified via EUT power ON/OFF test.



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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 (2020) Section 6.5
 Measurement Distance: 3m
 Test Engineer: Robin Zeng

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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 51.9 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

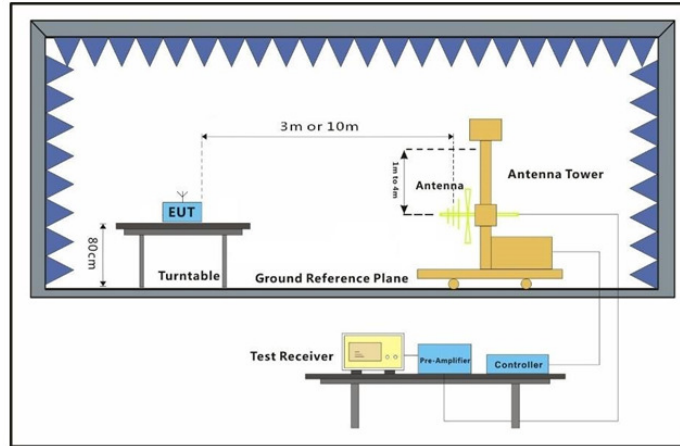
Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation (Wireless): Keep the EUT pairing with Devices (Output1:5W).
Pre-scan	01	Operation (Wireless): Keep the EUT pairing with Devices (Output1:7.5W).
Pre-scan	02	Operation (Wireless): Keep the EUT pairing with Devices (Output1:10W).
Pre-scan	03	Operation (Wireless): Keep the EUT pairing with Devices (Output1:15W).
Pre-scan	04	Operation (Wireless): Keep the EUT pairing with Devices (Output1:5W) + USB-C out
Pre-scan	05	Standby mode Keep the EUT standby (Operation)
Final test	06	Charging mode Keep the EUT pairing with Type C in + Wireless output 1: 5W
Pre-scan	07	Standby: Keep the EUT standby (Charging)



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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 for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 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 worse case.
- Repeat above procedures until all frequencies measured was complete.

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

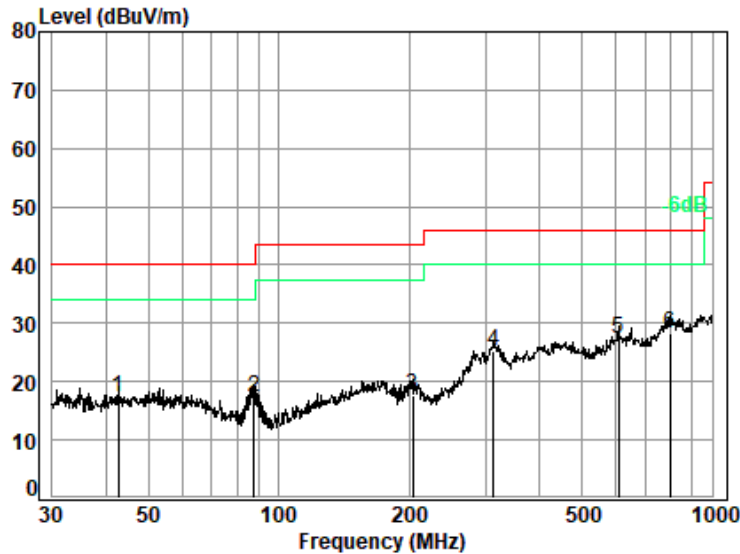
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Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00050AT
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	42.60	0.42	17.48	26.11	25.42	17.21	40.00	-22.79	QP
2	87.72	0.66	11.94	26.02	30.75	17.33	40.00	-22.67	QP
3	203.52	1.21	13.86	25.45	27.90	17.52	43.50	-25.98	QP
4	312.18	0.69	17.85	25.31	31.95	25.18	46.00	-20.82	QP
5	607.79	3.40	24.21	26.56	26.40	27.45	46.00	-18.55	QP
6	798.98	3.45	26.89	26.50	24.36	28.20	46.00	-17.80	QP



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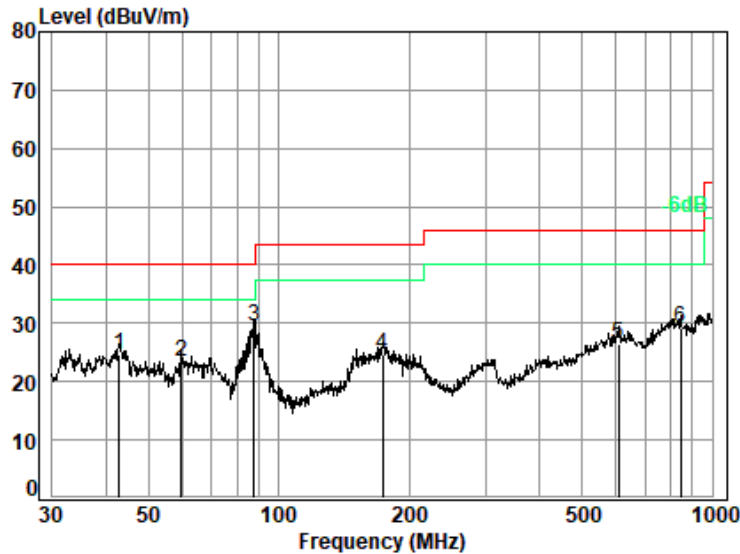
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Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00050AT
Mode : 06

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.75	0.43	17.49	26.11	32.78	24.59	40.00	-15.41 QP
2	59.65	0.76	17.31	26.10	31.40	23.37	40.00	-16.63 QP
3	87.72	0.66	11.94	26.02	42.92	29.50	40.00	-10.50 QP
4	173.81	0.78	16.46	25.55	32.98	24.67	43.50	-18.83 QP
5	607.79	3.40	24.21	26.56	25.42	26.47	46.00	-19.53 QP
6	845.09	3.03	26.84	26.45	25.90	29.32	46.00	-16.68 QP



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7.4 20dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9.2
 Test Engineer: Robin Zeng

Limit:

For report reference only

7.4.1 E.U.T. Operation

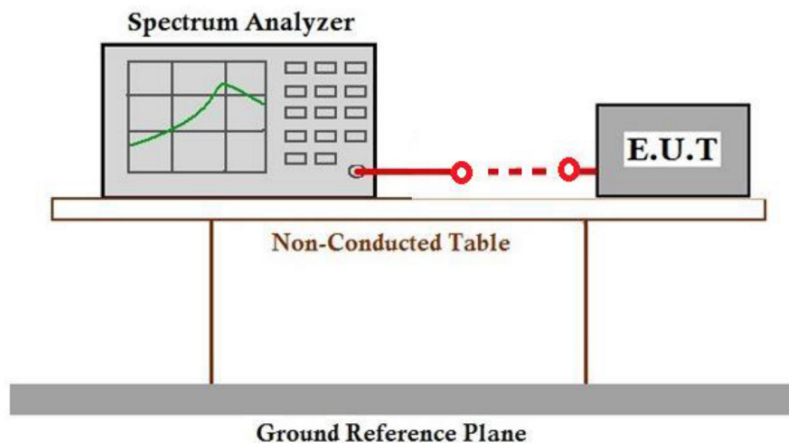
Operating Environment:

Temperature: 24.5 °C Humidity: 65 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with Devices(Output1:5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with Devices(Output1:7.5W).
Final test	02	Operation(Wireless):Keep the EUT pairing with Devices(Output1:10W).
Final test	03	Operation(Wireless):Keep the EUT pairing with Devices(Output1:15W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with Devices(Output1:5W) + USB-C out
Pre-scan	05	Standby mode Keep the EUT standby(Operation)
Pre-scan	06	Charging mode Keep the EUT pairing with Type C in + Wireless output 1 : 5W
Pre-scan	07	Standby:Keep the EUT standby(Charging)

7.4.3 Test Setup Diagram



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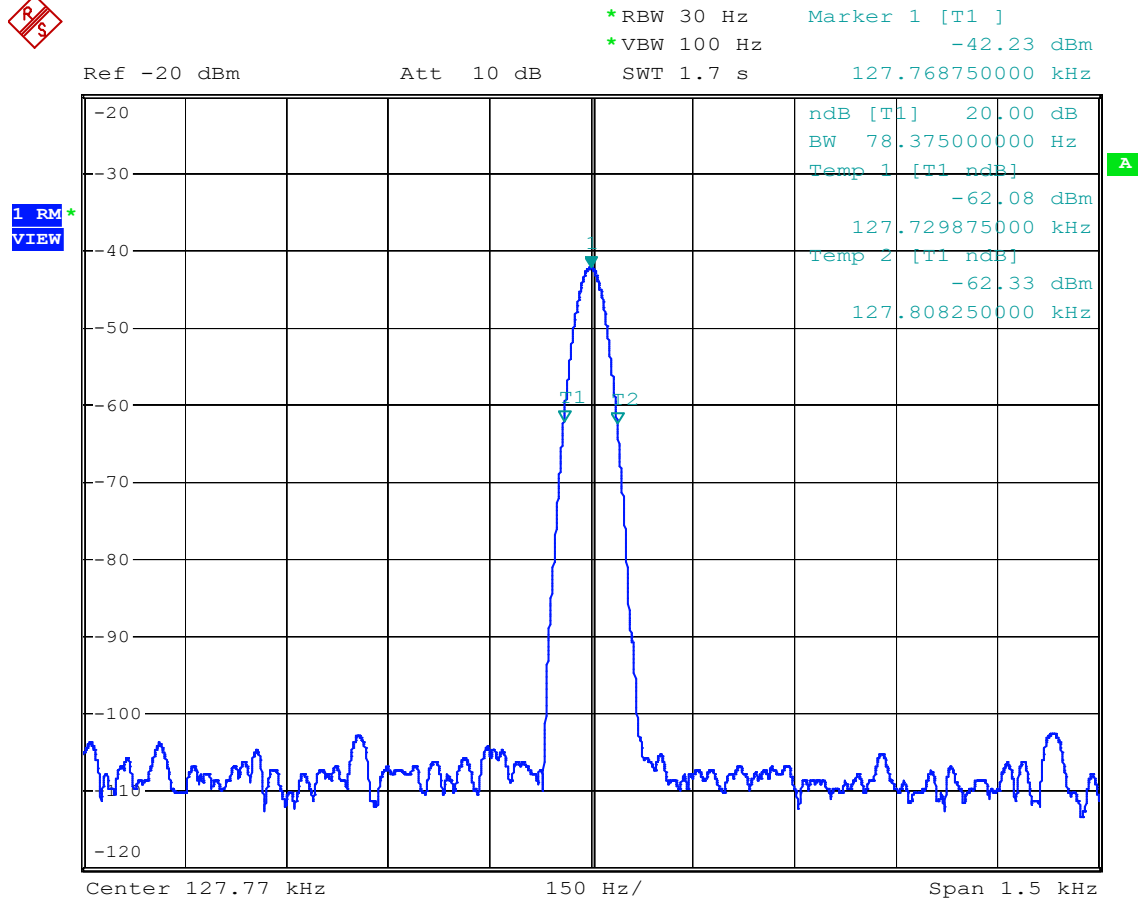
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7.4.4 Measurement Procedure and Data

Test Mode 02



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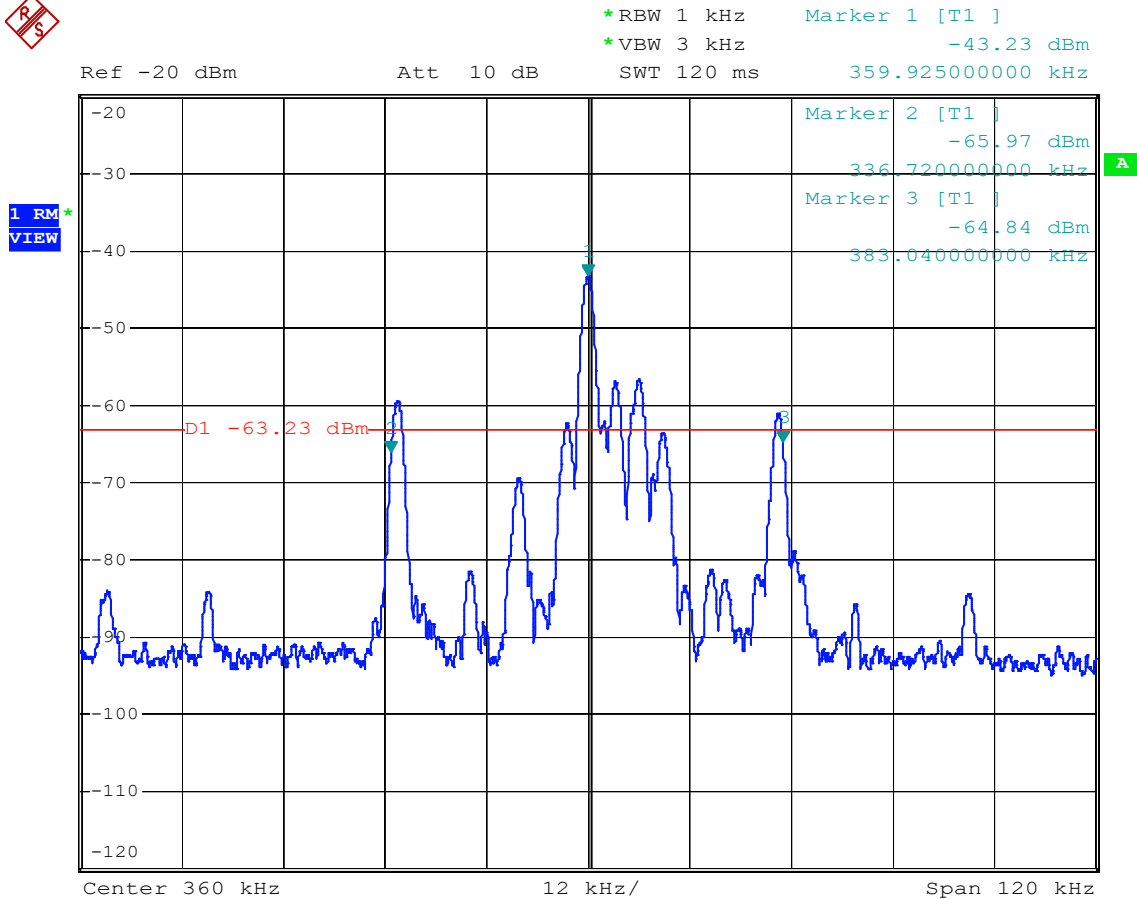
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Test Mode 03



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7.5 Restricted Bands

Test Requirement: 47 CFR Part 15, Subpart C 15.205
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Test Engineer: Robin Zeng

Limit:

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

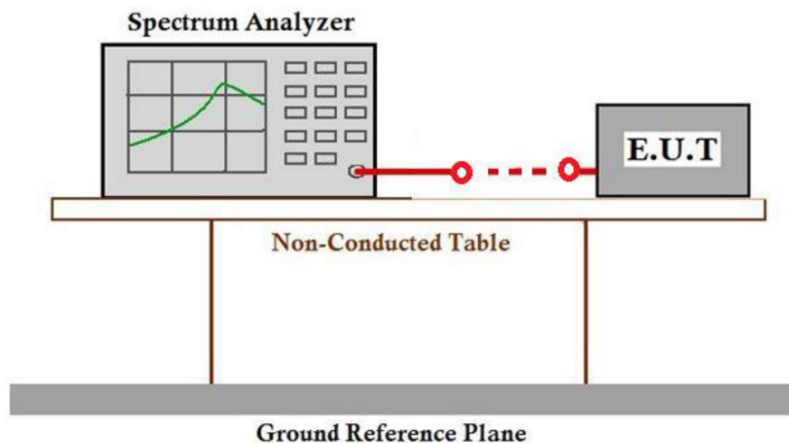
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with Devices(Output1:5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with Devices(Output1:7.5W).
Final test	02	Operation(Wireless):Keep the EUT pairing with Devices(Output1:10W).
Final test	03	Operation(Wireless):Keep the EUT pairing with Devices(Output1:15W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with Devices(Output1:5W) + USB-C out
Pre-scan	05	Standby mode Keep the EUT standby(Operation)
Pre-scan	06	Charging mode Keep the EUT pairing with Type C in + Wireless output 1 : 5W
Pre-scan	07	Standby:Keep the EUT standby(Charging)

7.5.3 Test Setup Diagram

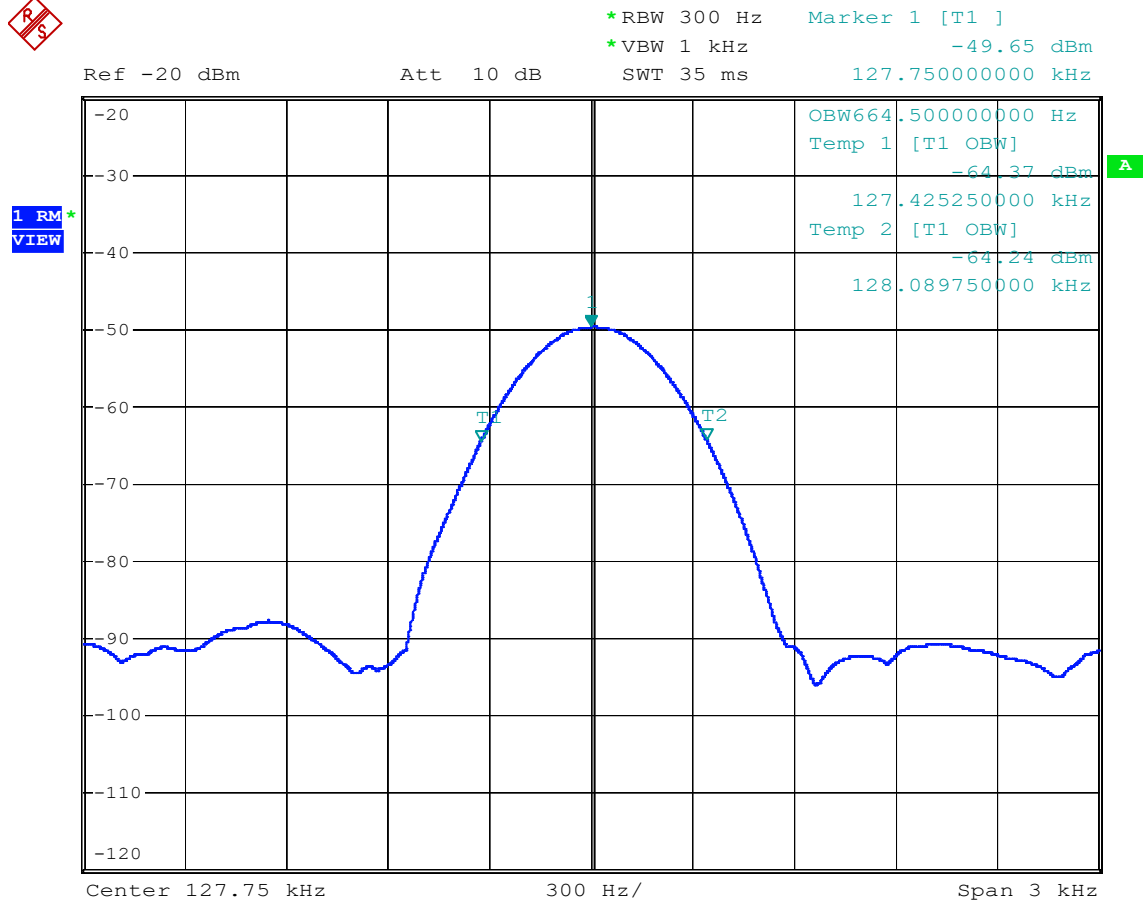


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7.5.4 Measurement Procedure and Data

Test Mode 02



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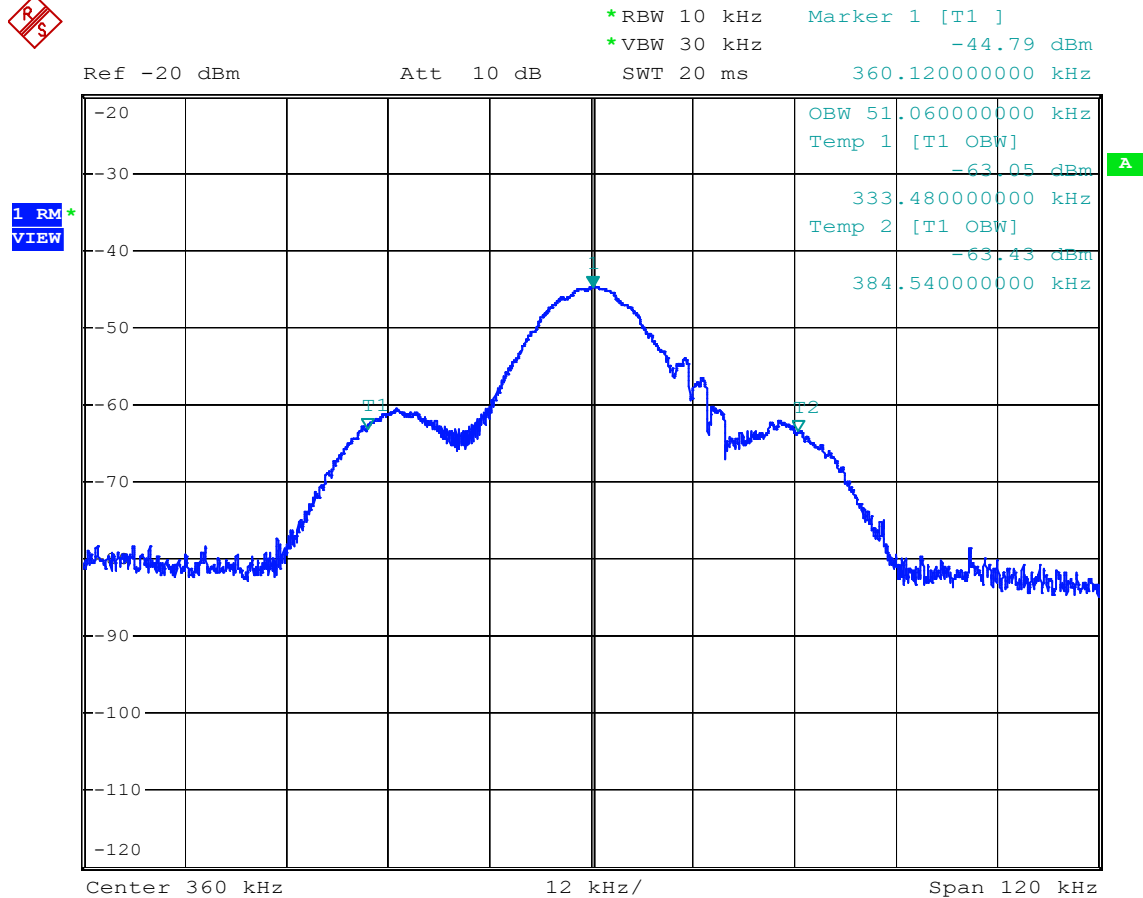
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Test Mode 03



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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for FYCR2606000050AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for FYCR2606000050AT

- End of the Report -



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