

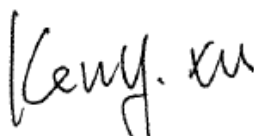
TEST REPORT

Application No.: SZCR2603001071AT
Applicant: Ugreen Group Limited
Address of Applicant: UGREEN Building, Longcheng Industrial Park Longguanxi Road, Longhua, ShenZhen, 518000 China
Manufacturer: Ugreen Group Limited
Address of Manufacturer: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, Shenzhen, China
Factory: Shenzhen Powerqi Technology Co., Ltd.
Address of Factory: Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No.13 of Baonan Road, Longgang Community, Longgang Street, Longgang District, Shenzhen City, Guangdong Province, P.R.China

Equipment Under Test (EUT):
EUT Name: 2-in-1 Magnetic Wireless Charger
Model No.: W776
P/N Code: 75248, 75248P, 75248X, 75248A, 75248B, 75248U, 75248P, 75248ZD, 75248T
Trade Mark: UGREEN
FCC ID: 2AQI5-W776
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2026-03-19
Date of Test: 2026-03-31 to 2026-04-23
Date of Issue: 2026-06-08

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.


 Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-06-08		Original

Authorized for issue by:				
				
		Ryan Yang/Project Engineer		
				
		Eric Fu/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
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2020) 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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Restricted Bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	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



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: 9.0V=3.0A, 12.0V=3.0A, 15.0V=3.0A Wireless Charging Output Power: iPhone 25.0W Max, AirPods 5.0W Max Wireless Charging Total Output Power: 30.0W Max if input 5V, no wireless output if input 9V/12V(PD20W): iPhone 5W/7.5W/10W/15W single / AirPods 5W single if input 9V(PD27W): iPhone 5W/7.5W/10W/15W single / AirPods 5W single / iPhone 15W+AirPods 2.5W dual if input 12V(PD30W): iPhone 5W/7.5W/10W/15W single / AirPods 5W single / iPhone 15W+AirPods 5W dual if input 12V(PD36W): iPhone 5W/7.5W/10W/15W single / AirPods 5W single / iPhone 20W+AirPods 2.5W dual if input 15V(PD45W): iPhone 5W/7.5W/10W/15W/25W single / AirPods 5W single / iPhone 25W+AirPods 2.5W dual
Cable(s):	Type-C to Type-C 102cm
Operation frequency:	Output 1: 128.00-130.00 kHz for 5W/7.5W/10W 356.64-369.84 kHz for 15W/25W Output 2: 114.20-147.40 kHz for 2.5W/5W
Modulation type:	Load modulation
Antenna type:	Loop Antenna

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.



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HONOR	HN-200500CP0	REF. No.SEA05R03H
Earphone	Apple	A2566	REF. No.SEA10D00
E-loading	SGS	N/A	REF. No.SEA42A00
iPhone 16 Pro	Apple	MYLU3CH/A	REF. No.SEA16Q03

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	$\pm 0.3\%$
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	$\pm 3.1\text{dB}$
Restricted Bands	$\pm 0.3\%$
Radiated Emissions (9kHz-30MHz)	$\pm 3.6\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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.



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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

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
DC Power Supply	Zhao Xin	PS:305D	SEM011-13	2025-07-24	2026-07-23
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-03-15	2027-03-14

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

Restricted Bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Zhao Xin	PS:305D	SEM011-13	2025-07-24	2026-07-23
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-03-15	2027-03-14

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2026-03-21	2027-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2026-02-02	2027-02-01
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2026-03-21	2027-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2026-02-02	2027-02-01
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04

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
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	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

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 (2020) Section 6.9.2
 Test Engineer: Yanan Hong

Limit:

For report reference only

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	input 5V Operation:No wireless output, verify no RF emission
Final test	01	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :5W).
Pre-scan	02	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :7.5W).
Final test	03	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :10W).
Final test	04	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :15W).
Pre-scan	05	input 15V Operation:Keep the EUT pairing with iPhone(Output 1 :25W).
Pre-scan	06	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :2.5W).
Pre-scan	07	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :5W).
Pre-scan	08	input 9V(PD27W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :2.5W).
Pre-scan	09	input 12V(PD30W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :5W).
Pre-scan	10	input 12V(PD36W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W)+AirPods(Output 2 :2.5W).
Pre-scan	11	input 15V(PD45W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W/25W)+AirPods(Output 2 :5W).
Pre-scan	12	Standby mode Keep the EUT standby(Operation)

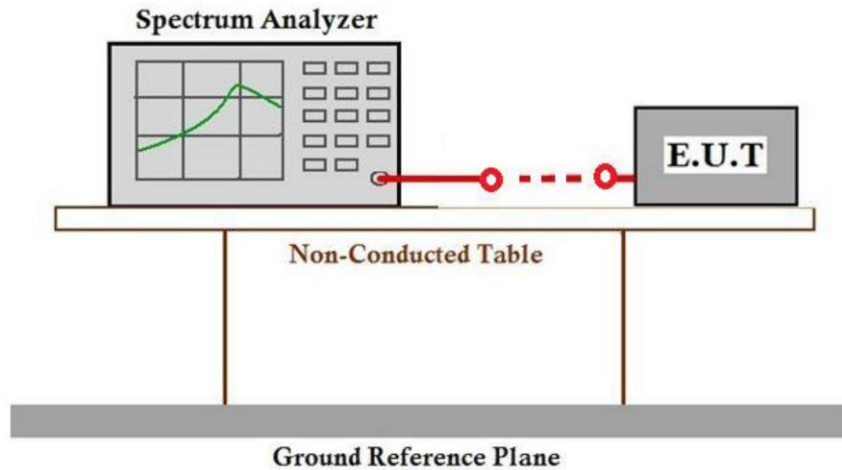


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data



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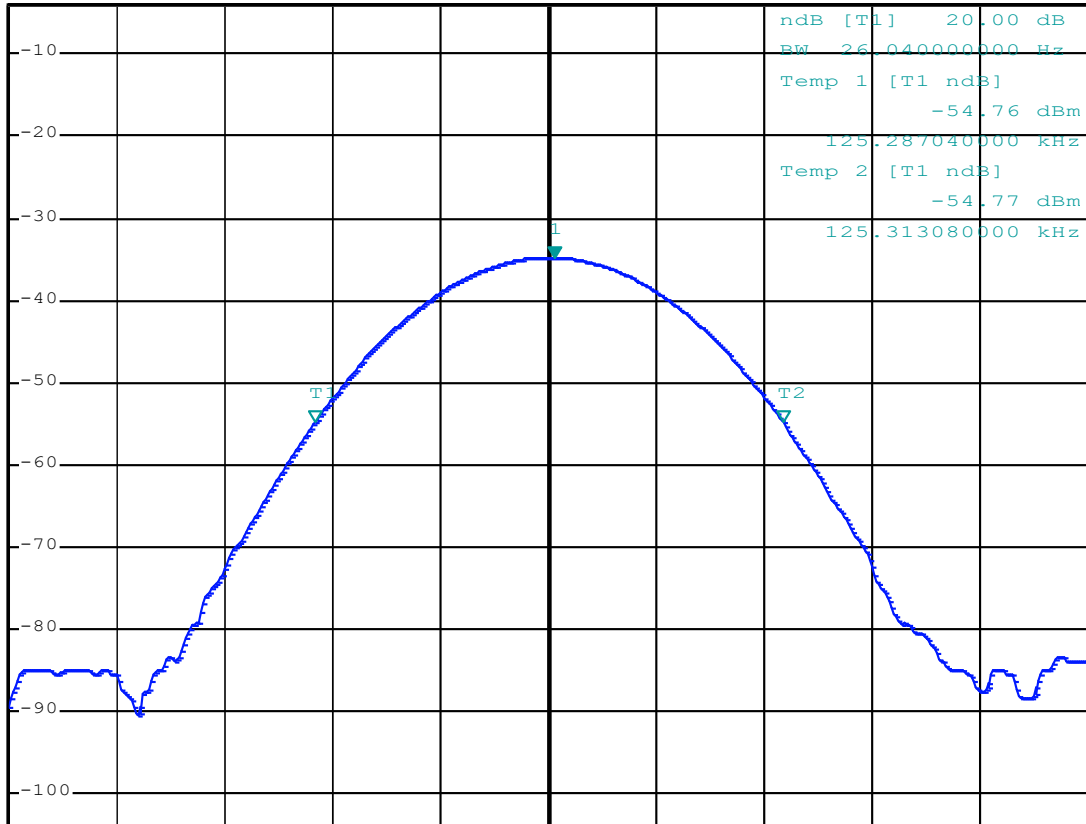
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Ref -4 dBm *Att 40 dB *RBW 10 Hz Marker 1 [T1] -34.78 dBm
 *VBW 30 Hz 125.300400000 kHz
 *SWT 1 s

1 PK
VIEW



Center 125.3 kHz 6 Hz / Span 60 Hz



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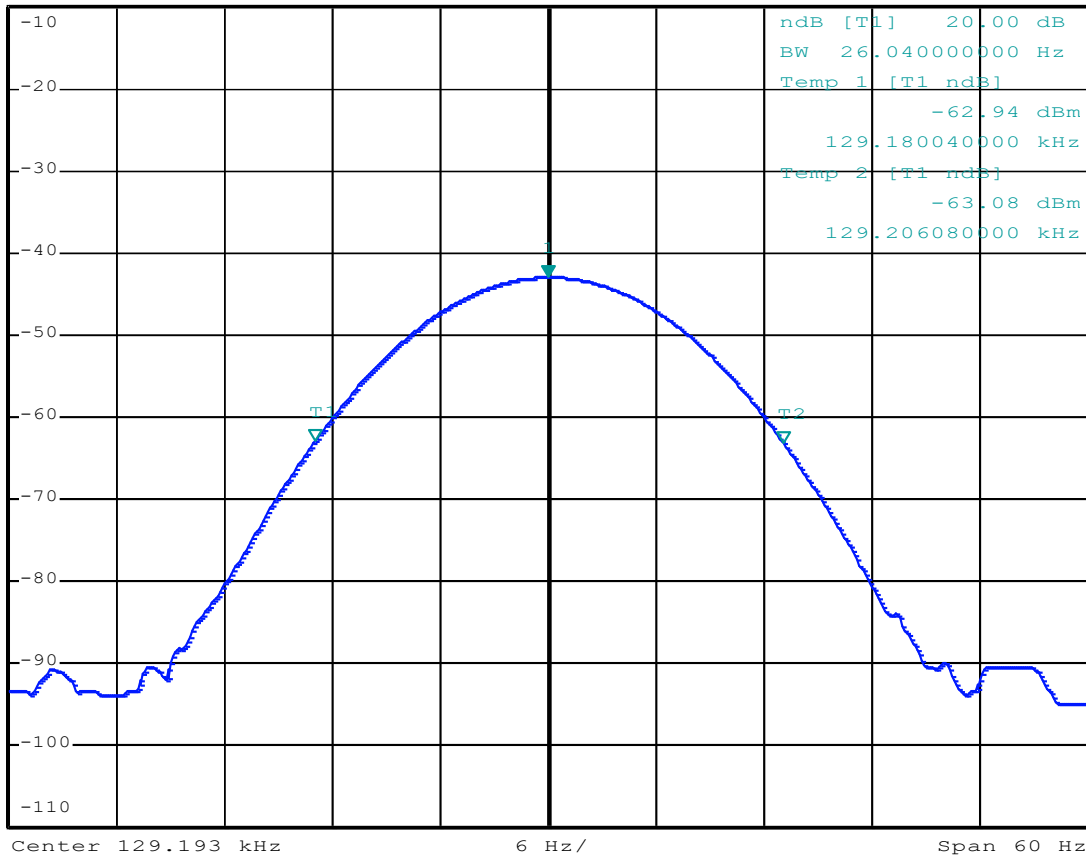
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Ref -10 dBm *Att 30 dB *RBW 10 Hz *VBW 30 Hz *SWT 1 s Marker 1 [T1] -42.99 dBm 129.19300000 kHz

1 PK
VIEW



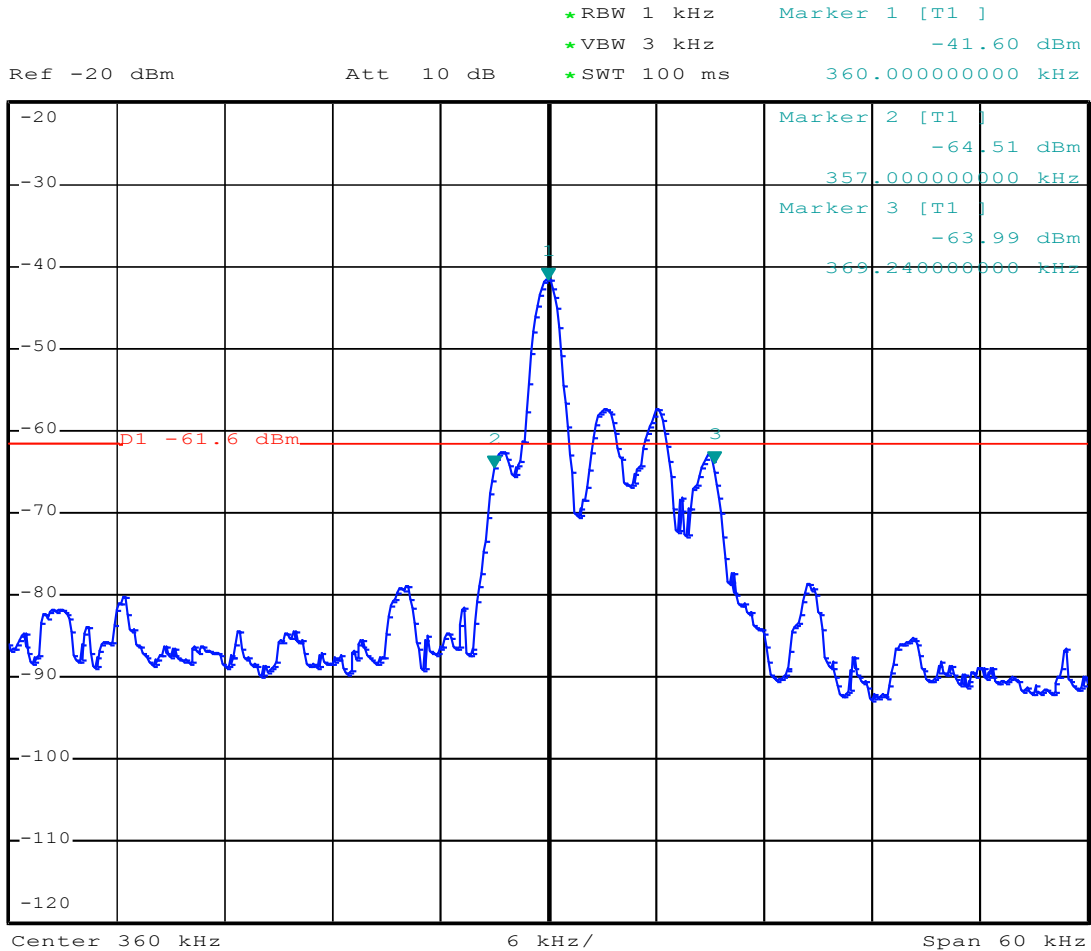
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7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Test Engineer: Mason Wu

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 42.3 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	input 5V Operation:No wireless output, verify no RF emission
Pre-scan	01	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :5W).
Pre-scan	02	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :7.5W).
Pre-scan	03	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :10W).
Pre-scan	04	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :15W).
Pre-scan	05	input 15V Operation:Keep the EUT pairing with iPhone(Output 1 :25W).
Pre-scan	06	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :2.5W).
Pre-scan	07	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :5W).
Pre-scan	08	input 9V(PD27W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :2.5W).
Pre-scan	09	input 12V(PD30W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :5W).
Pre-scan	10	input 12V(PD36W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W)+AirPods(Output 2 :2.5W).
Final test	11	input 15V(PD45W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W/25W)+AirPods(Output 2 :5W).
Pre-scan	12	Standby mode Keep the EUT standby(Operation)

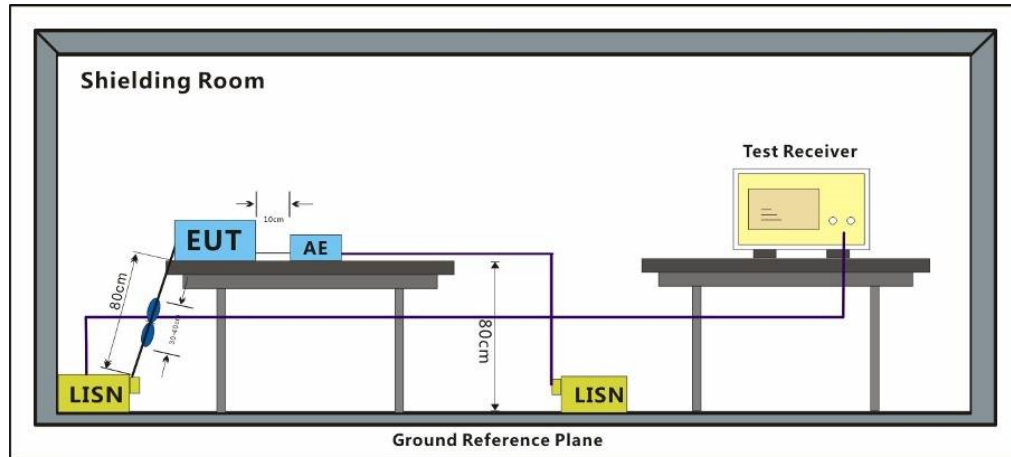


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7.2.3 Test Setup Diagram



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: Level=Read Level+ Cable Loss+ LISN Factor

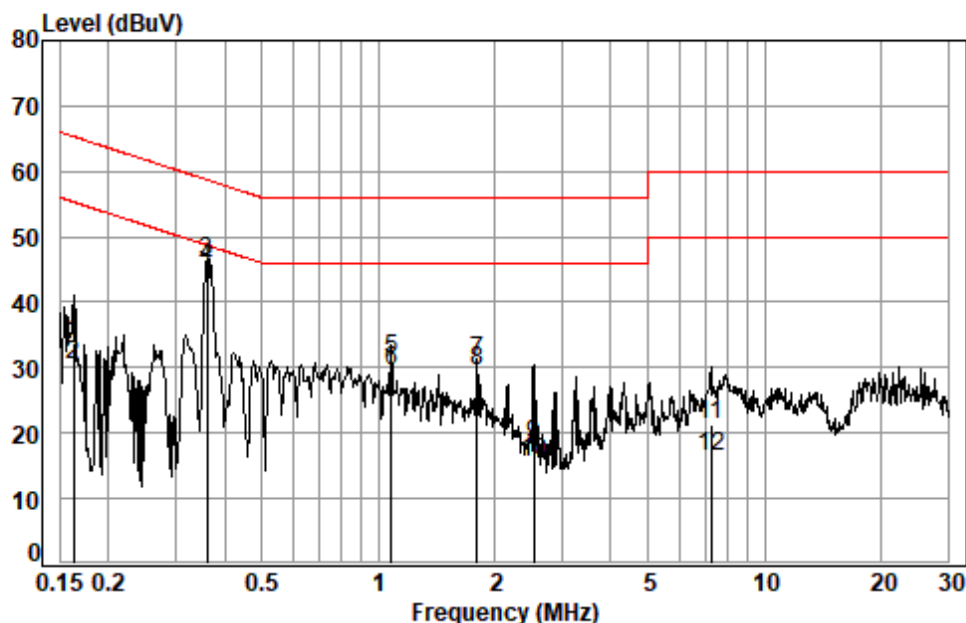
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Test Mode: 11; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 01071AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.06	9.63	23.99	33.68	65.34	-31.66	QP
2	0.1624	0.06	9.63	20.87	30.56	55.34	-24.78	Average
3 *	0.3596	0.08	9.63	36.41	46.12	58.74	-12.62	QP
4 *	0.3596	0.08	9.63	35.74	45.45	48.74	-3.29	Average
5	1.0824	0.11	9.68	21.49	31.28	56.00	-24.72	QP
6	1.0824	0.11	9.68	19.84	29.63	46.00	-16.37	Average
7	1.8000	0.12	9.71	21.07	30.90	56.00	-25.10	QP
8	1.8000	0.12	9.71	19.77	29.60	46.00	-16.40	Average
9	2.5266	0.13	9.77	8.43	18.33	56.00	-37.67	QP
10	2.5266	0.13	9.77	5.69	15.59	46.00	-30.41	Average
11	7.2518	0.15	10.24	10.80	21.19	60.00	-38.81	QP
12	7.2518	0.15	10.24	5.91	16.30	50.00	-33.70	Average



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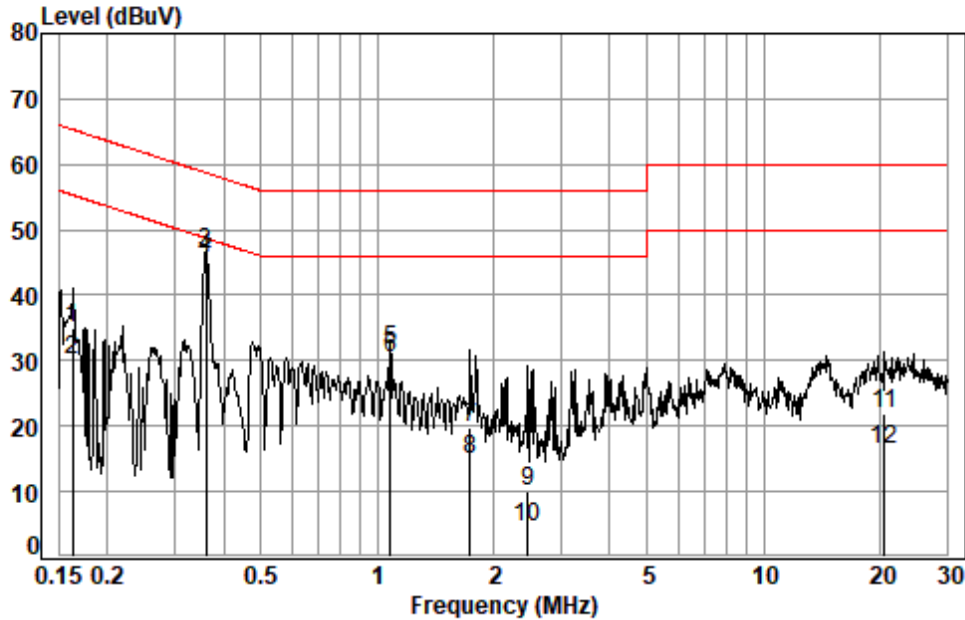
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Test Mode: 11; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01071AT
Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.06	9.66	25.16	34.88	65.34	-30.46	QP
2	0.1624	0.06	9.66	20.45	30.17	55.34	-25.17	Average
3 *	0.3596	0.08	9.64	36.68	46.40	58.74	-12.34	QP
4 *	0.3596	0.08	9.64	35.89	45.61	48.74	-3.13	Average
5	1.0824	0.11	9.67	21.71	31.49	56.00	-24.51	QP
6	1.0824	0.11	9.67	20.54	30.32	46.00	-15.68	Average
7	1.7437	0.12	9.71	9.87	19.70	56.00	-36.30	QP
8	1.7437	0.12	9.71	5.16	14.99	46.00	-31.01	Average
9	2.4606	0.13	9.76	0.00	9.89	56.00	-46.11	QP
10	2.4606	0.13	9.76	-5.24	4.65	46.00	-41.35	Average
11	20.5944	0.19	12.29	9.56	22.04	60.00	-37.96	QP
12	20.5944	0.19	12.29	3.93	16.41	50.00	-33.59	Average



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7.3 Restricted Bands

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

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

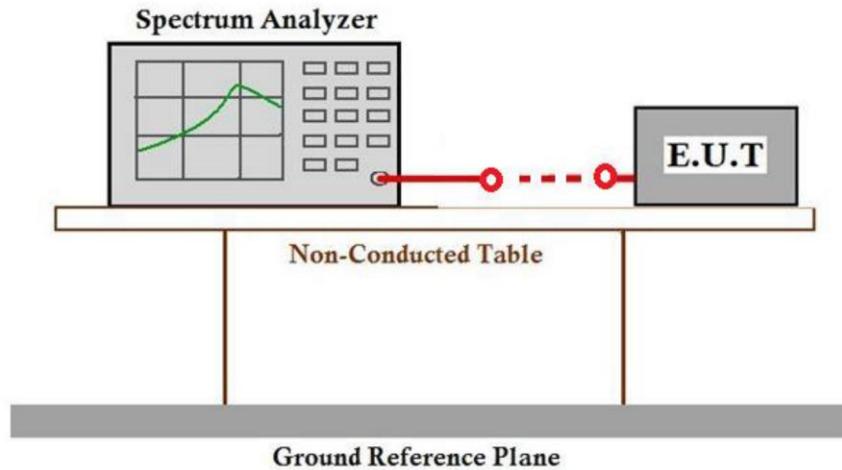
Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	input 5V Operation:No wireless output, verify no RF emission
Final test	01	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :5W).
Pre-scan	02	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :7.5W).
Final test	03	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :10W).
Final test	04	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :15W).
Pre-scan	05	input 15V Operation:Keep the EUT pairing with iPhone(Output 1 :25W).
Pre-scan	06	input 9V/12V/15VOperation:Keep the EUT pairing with AirPods(Output 2 :2.5W).
Pre-scan	07	input 9V/12V/15VOperation:Keep the EUT pairing with AirPods(Output 2 :5W).
Pre-scan	08	input 9V(PD27W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :2.5W).
Pre-scan	09	input 12V(PD30W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :5W).
Pre-scan	10	input 12V(PD36W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W)+AirPods(Output 2 :2.5W).
Pre-scan	11	input 15V(PD45W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W/25W)+AirPods(Output 2 :5W).
Pre-scan	12	Standby mode Keep the EUT standby(Operation)



7.3.3 Test Setup Diagram

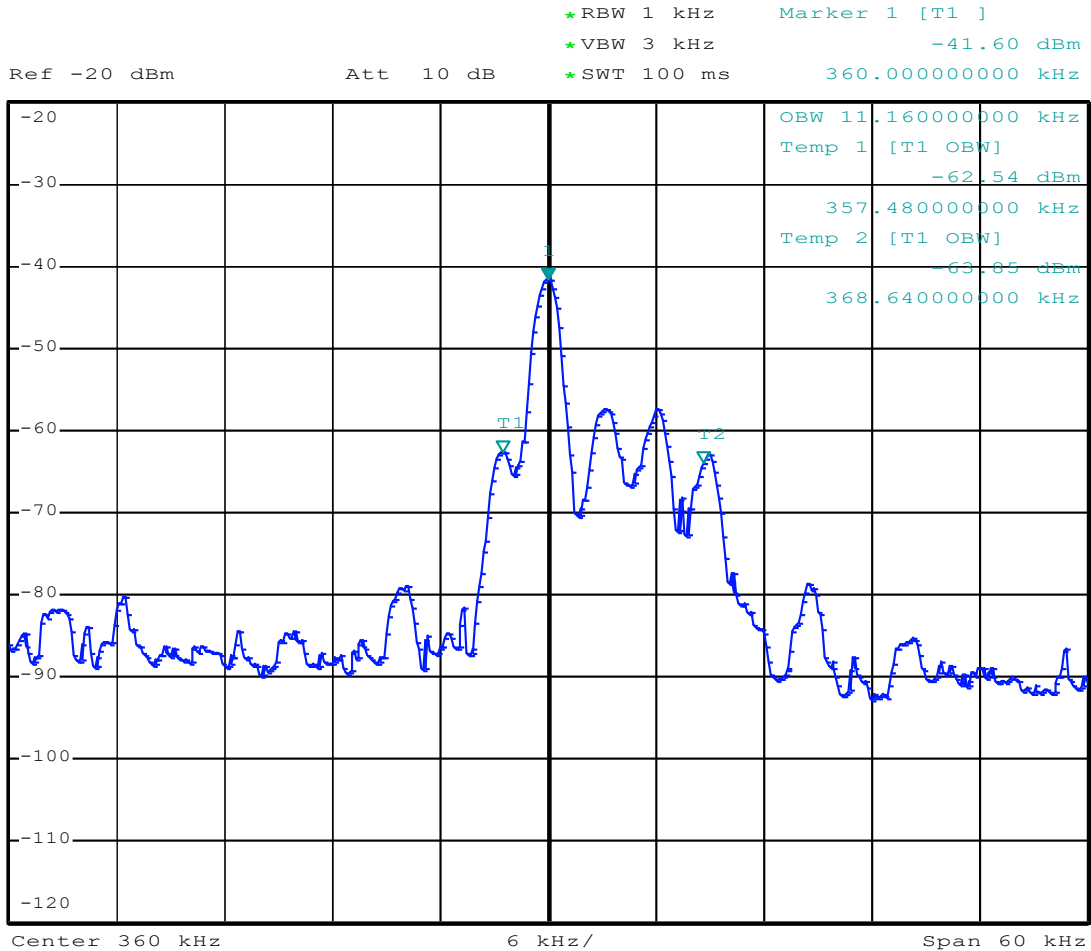


7.3.4 Measurement Procedure and Data





1 PK
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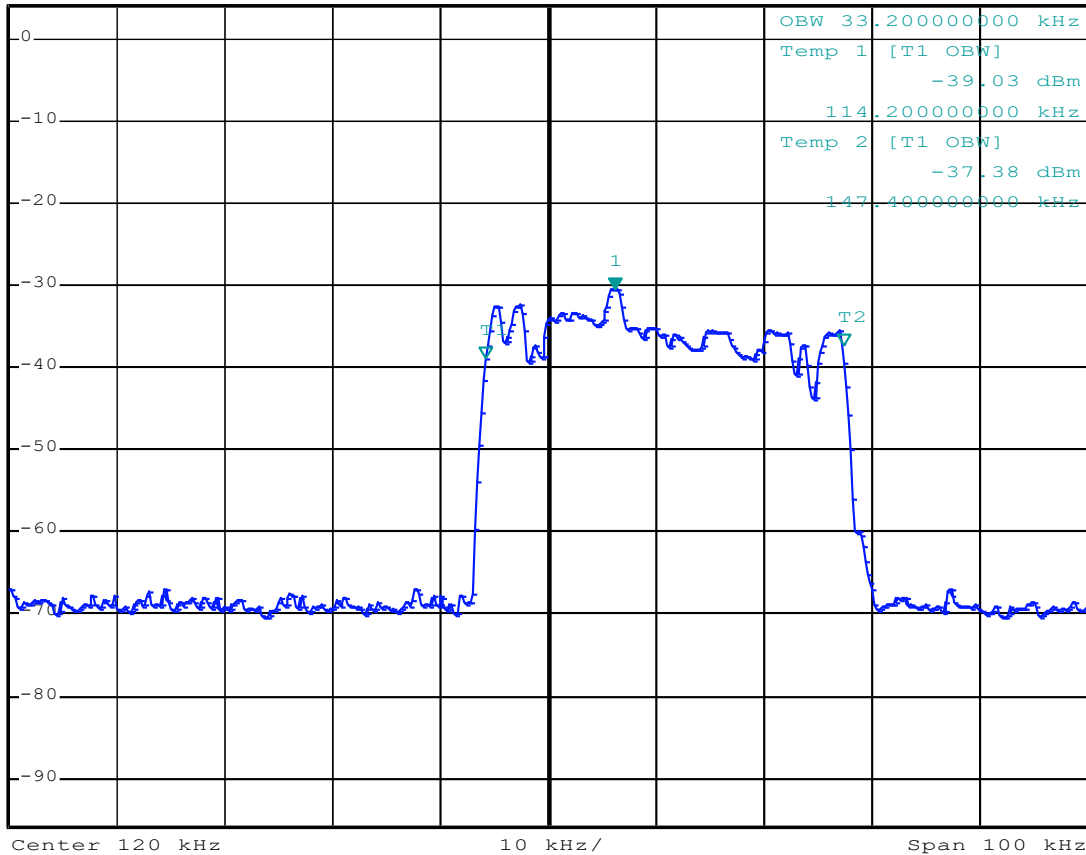
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Ref 4 dBm *Att 30 dB *RBW 1 kHz Marker 1 [T1]
 *VBW 3 kHz -30.51 dBm
 *SWT 100 ms 126.20000000 kHz

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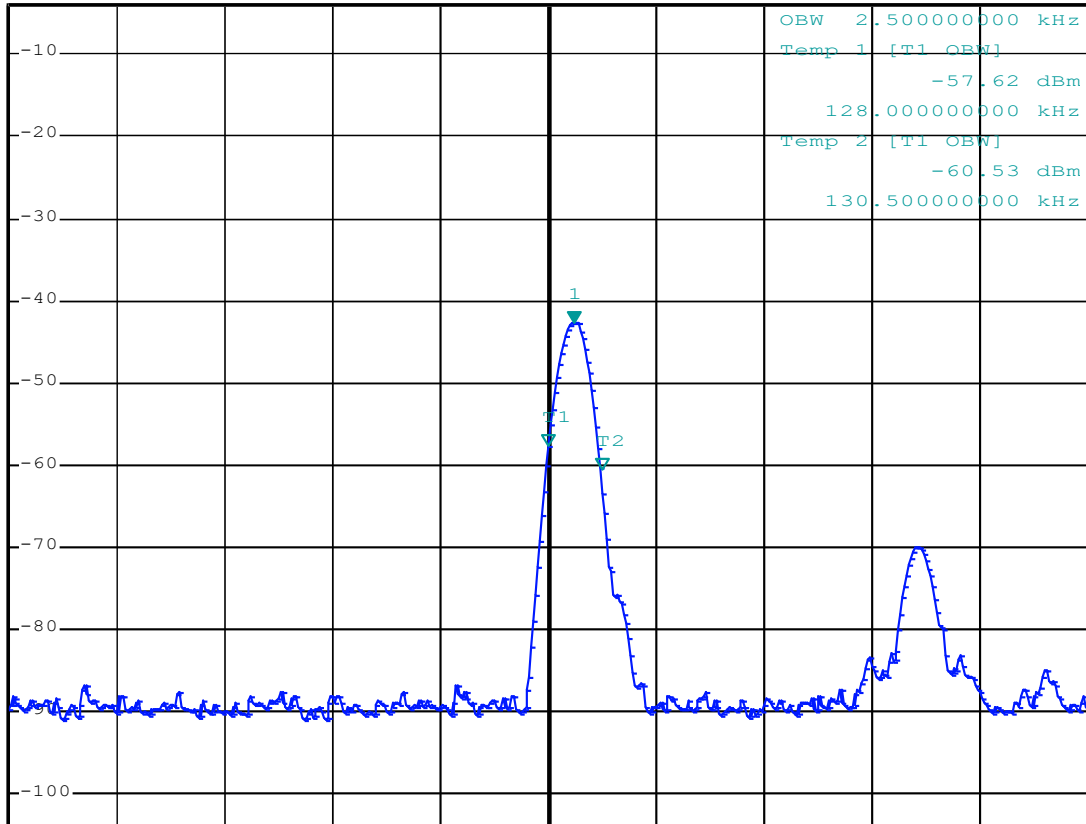
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Ref -4 dBm *Att 10 dB *RBW 1 kHz Marker 1 [T1]
 *VBW 3 kHz -42.60 dBm
 *SWT 100 ms 129.200000000 kHz

1 PK
VIEW



Center 128 kHz 5 kHz/ Span 50 kHz



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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 (2020) Section 6.4
 Measurement Distance: 10m
 Test Engineer: Ted Wu

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: 23.6 °C

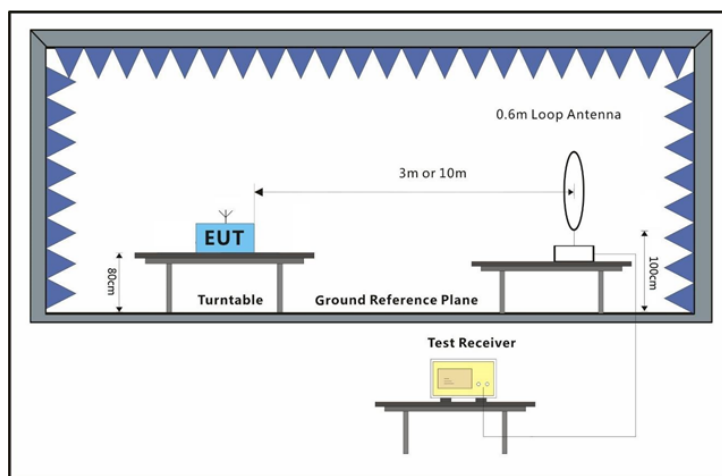
Humidity: 46.6 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	input 5V Operation:No wireless output, verify no RF emission
Pre-scan	01	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :5W).
Pre-scan	02	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :7.5W).
Pre-scan	03	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :10W).
Pre-scan	04	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :15W).
Pre-scan	05	input 15V Operation:Keep the EUT pairing with iPhone(Output 1 :25W).
Pre-scan	06	input 9V/12V/15VOperation:Keep the EUT pairing with AirPods(Output 2 :2.5W).
Pre-scan	07	input 9V/12V/15VOperation:Keep the EUT pairing with AirPods(Output 2 :5W).
Pre-scan	08	input 9V(PD27W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :2.5W).
Pre-scan	09	input 12V(PD30W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :5W).
Pre-scan	10	input 12V(PD36W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W)+AirPods(Output 2 :2.5W).
Final test	11	input 15V(PD45W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W/25W)+AirPods(Output 2 :5W).
Pre-scan	12	Standby mode Keep the EUT standby(Operation)

7.4.3 Test Setup Diagram



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7.4.4 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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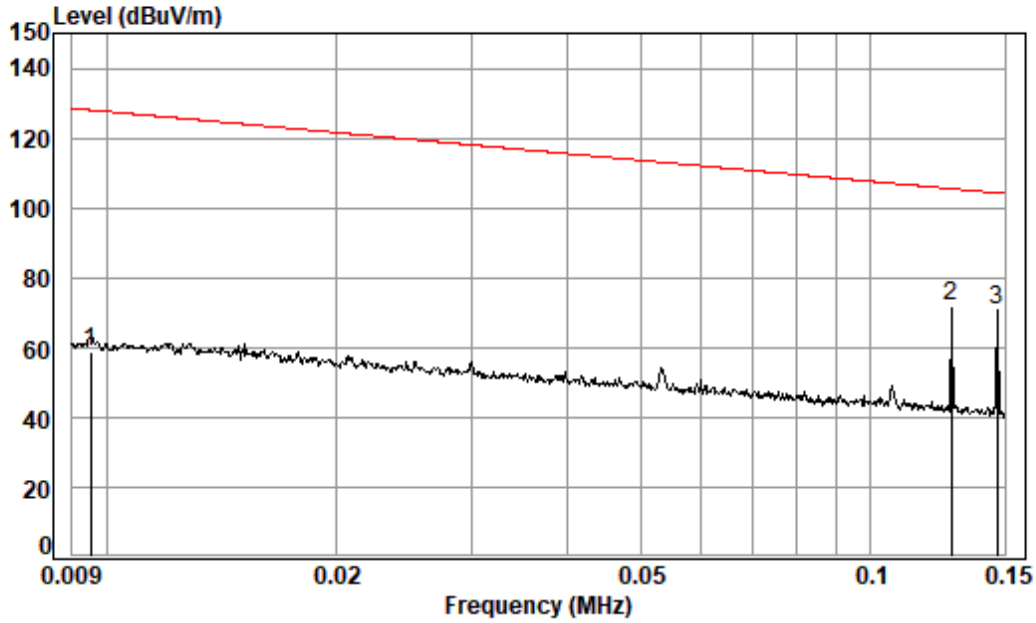
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0.009 MHz - 0.15 MHz_001



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coaxial

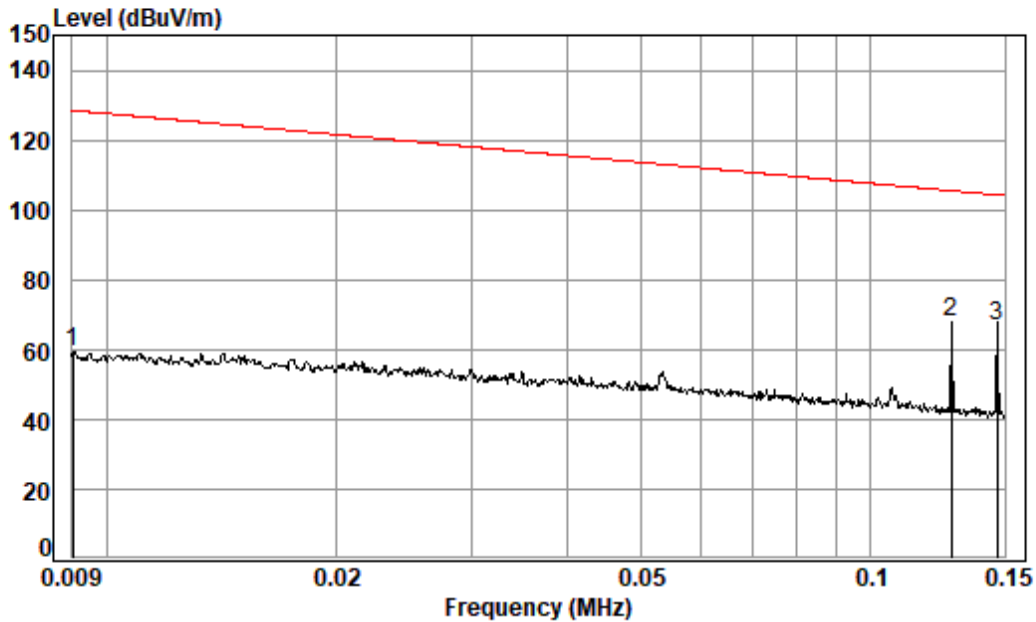
		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	71.43	18.63	0.10	31.14	59.02	128.01	-68.99	Average
2	0.128	93.43	10.52	0.14	32.40	71.69	105.47	-33.78	Average
3 pp	0.147	92.39	10.50	0.14	32.40	70.63	104.27	-33.64	Average



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0.009 MHz - 0.15 MHz _002



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	71.04	19.08	0.10	31.10	59.12	128.48	-69.36	Average
2	0.128	89.44	10.52	0.14	32.40	67.70	105.47	-37.77	Average
3 pp	0.147	88.77	10.50	0.14	32.40	67.01	104.27	-37.26	Average



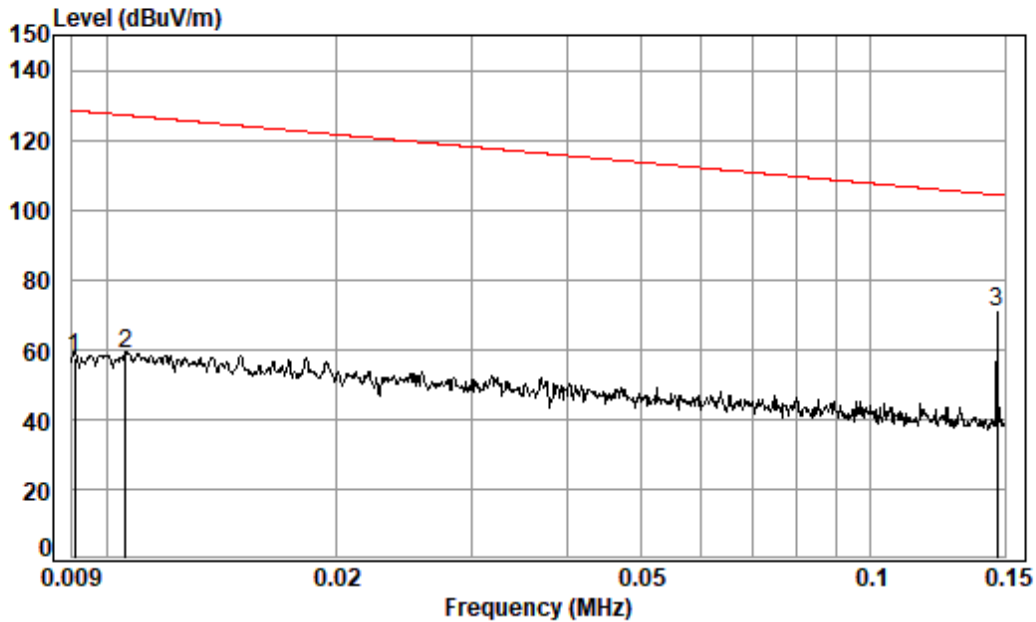
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0.009 MHz - 0.15 MHz _003



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	69.50	19.03	0.10	31.11	57.52	128.43	-70.91	Average
2	0.011	71.80	17.95	0.10	31.21	58.64	127.11	-68.47	Average
3 pp	0.147	92.38	10.50	0.14	32.40	70.62	104.27	-33.65	Average



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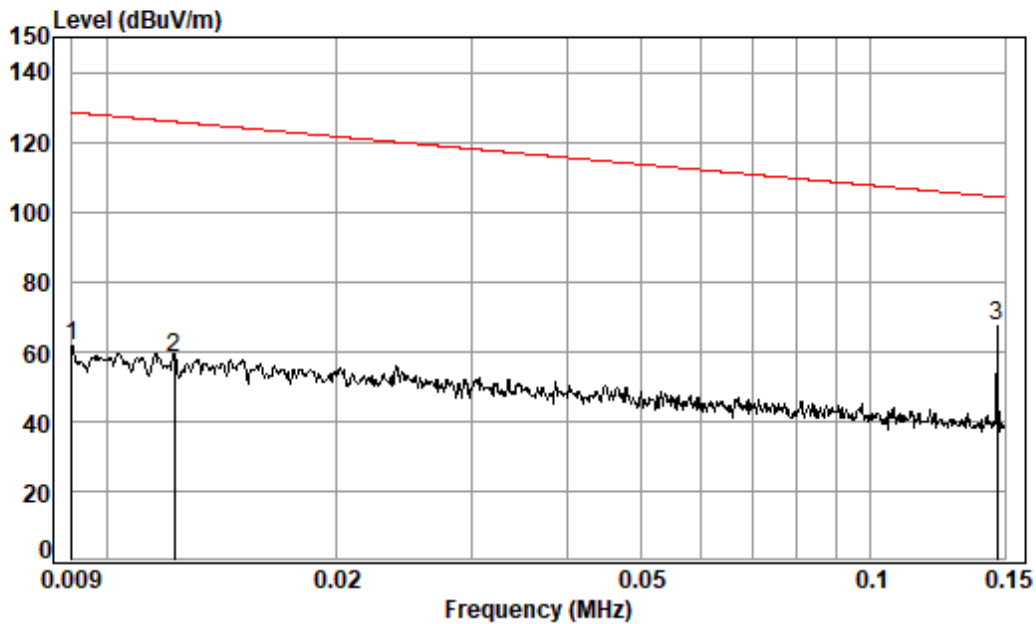
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0.009 MHz - 0.15 MHz _004



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	73.40	19.10	0.10	31.10	61.50	128.50	-67.00	Average
2	0.012	72.38	17.19	0.10	31.32	58.35	125.81	-67.46	Average
3 pp	0.147	88.88	10.50	0.14	32.40	67.12	104.27	-37.15	Average



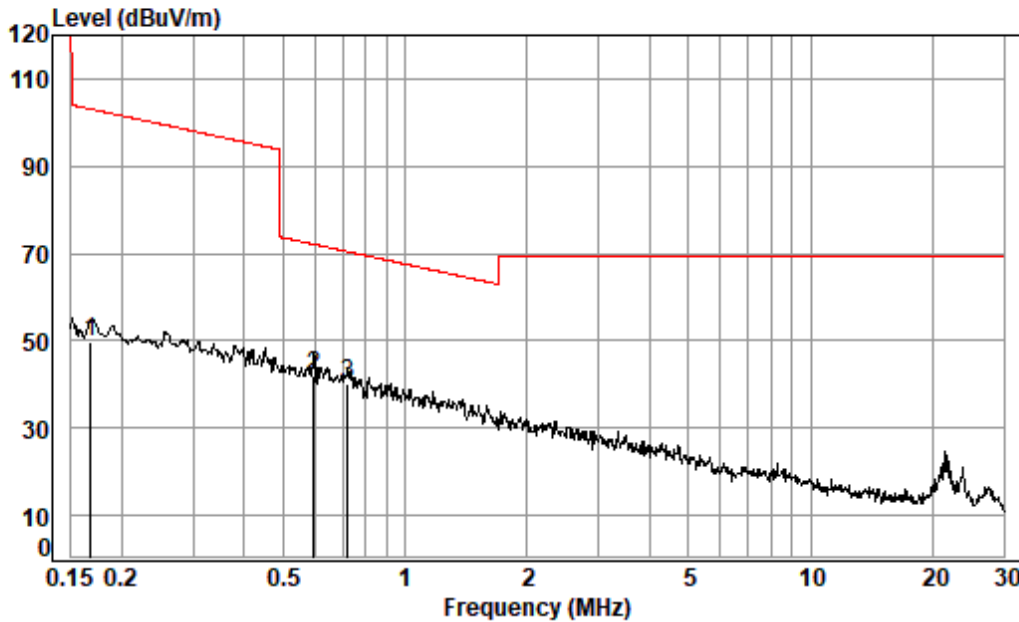
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Member of the SGS Group (SGS SA)

0.15 MHz – 30 MHz _001



Condition: 3m

Job No. : 01071AT

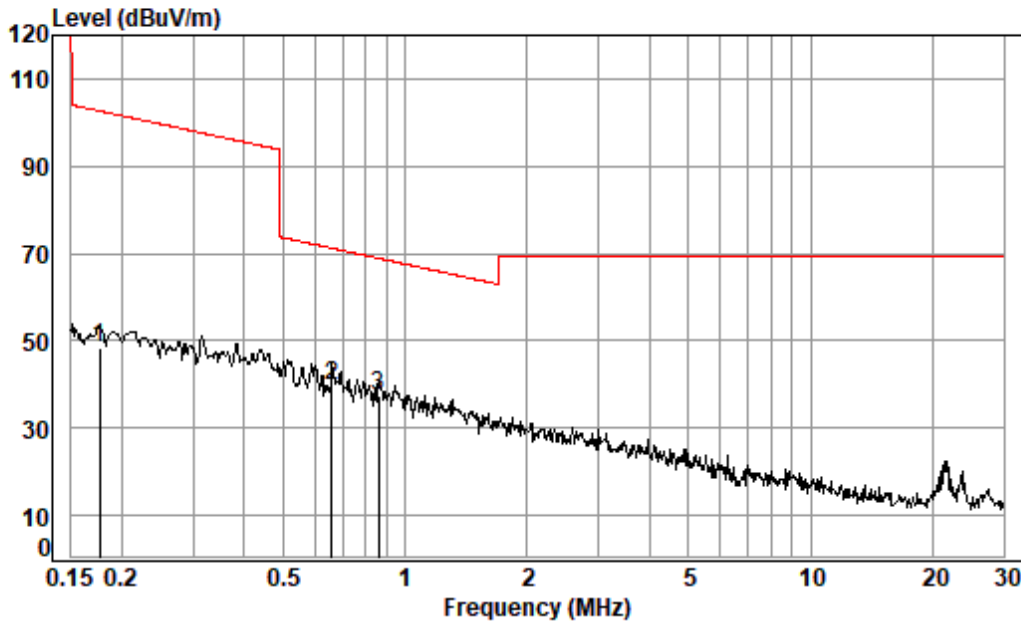
Test Mode: 11

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.168	71.52	10.49	0.15	32.40	49.76	103.11	-53.35 Average
2		0.595	63.65	10.36	0.30	32.53	41.78	72.11	-30.33 QP
3	pp	0.724	62.13	10.35	0.32	32.55	40.25	70.39	-30.14 QP



0.15 MHz – 30 MHz _002



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	70.15	10.48	0.16	32.40	48.39	102.65	-54.26	Average
2		61.61	10.35	0.31	32.54	39.73	71.18	-31.45	QP
3	pp	59.37	10.35	0.34	32.58	37.48	68.86	-31.38	QP



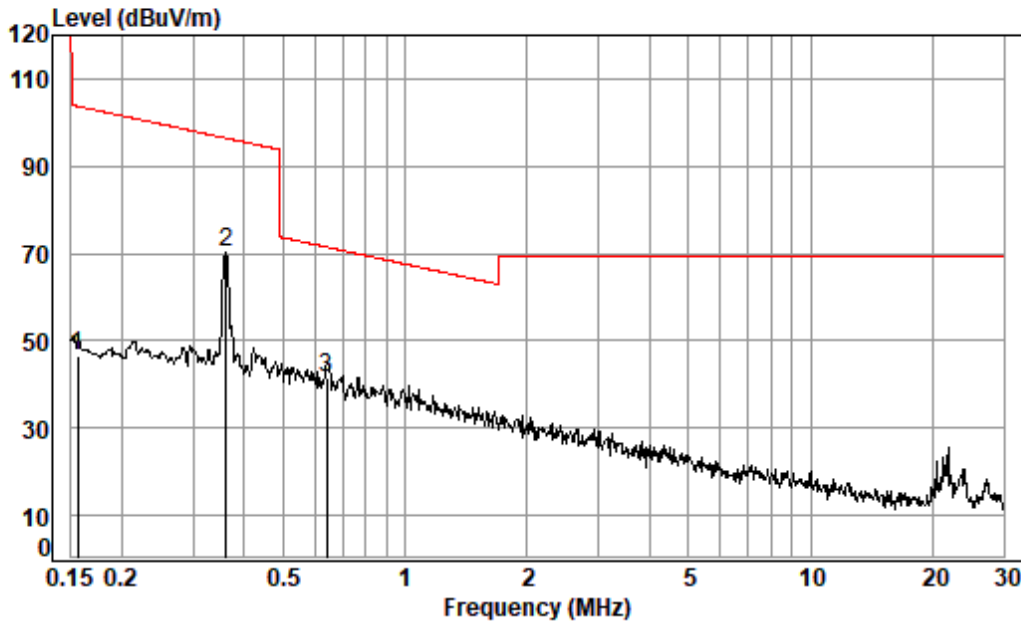
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0.15 MHz – 30 MHz _003



Condition: 3m

Job No. : 01071AT

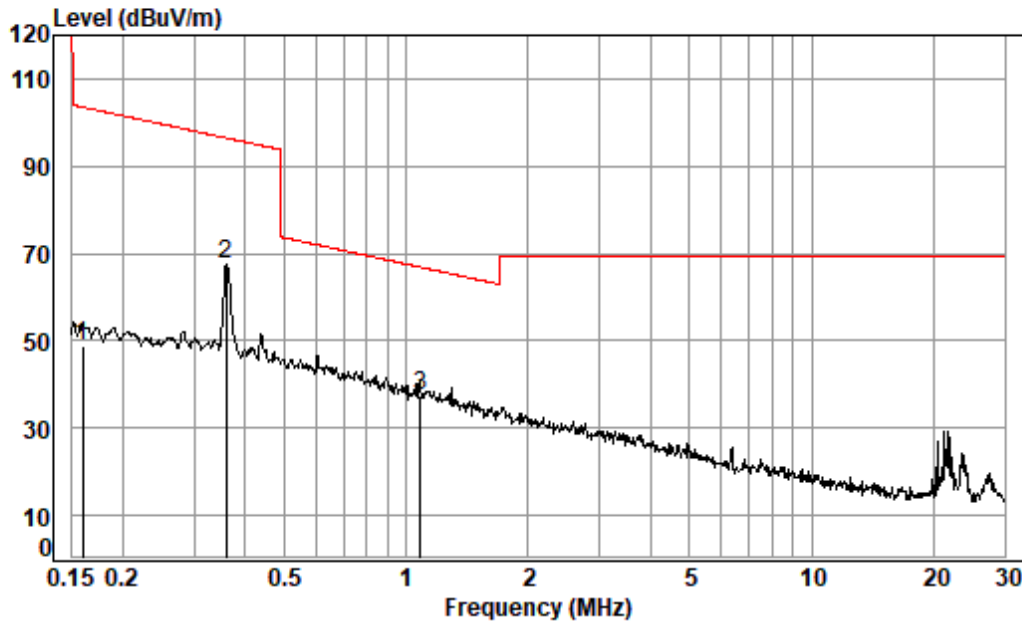
Test Mode: 11

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.156	68.50	10.50	0.14	32.40	46.74	103.75	-57.01 Average
2	pp	0.361	92.17	10.39	0.24	32.44	70.36	96.44	-26.08 QP
3		0.641	63.62	10.36	0.31	32.54	41.75	71.46	-29.71 QP



0.15 MHz – 30 MHz _004



Condition: 3m

Job No. : 01071AT

Test Mode: 11

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.159	70.68	10.49	0.15	32.40	48.92	103.57	Average
2	pp	0.360	89.29	10.39	0.24	32.44	67.48	96.49	QP
3		1.082	59.50	10.32	0.37	32.59	37.60	66.87	QP



7.5 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: 10m
 Test Engineer: Ted Wu

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.		

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	input 5V Operation:No wireless output, verify no RF emission
Pre-scan	01	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :5W).
Pre-scan	02	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :7.5W).
Pre-scan	03	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :10W).
Pre-scan	04	input 9V/12V Operation:Keep the EUT pairing with iPhone(Output 1 :15W).
Pre-scan	05	input 15V Operation:Keep the EUT pairing with iPhone(Output 1 :25W).
Pre-scan	06	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :2.5W).
Pre-scan	07	input 9V/12V/15V Operation:Keep the EUT pairing with AirPods(Output 2 :5W).
Pre-scan	08	input 9V(PD27W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :2.5W).
Pre-scan	09	input 12V(PD30W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W)+AirPods(Output 2 :5W).
Pre-scan	10	input 12V(PD36W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W)+AirPods(Output 2 :2.5W).
Final test	11	input 15V(PD45W) Operation:Keep the EUT pairing with iPhone(5W/7.5W/10W/15W/20W/25W)+AirPods(Output 2 :5W).



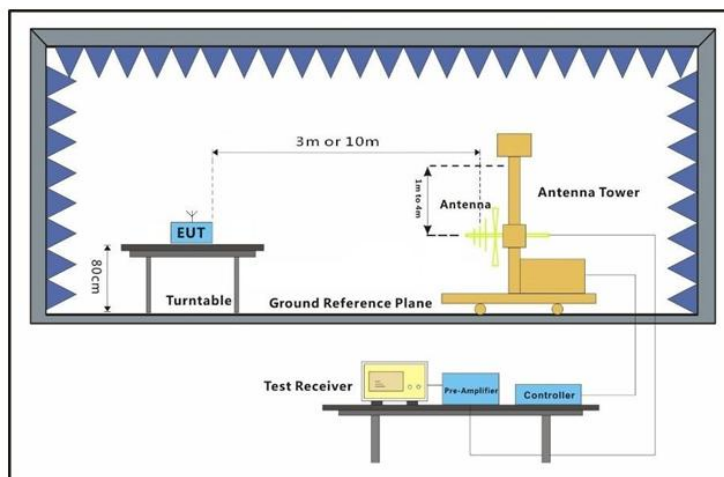
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Pre-scan	12	Standby mode Keep the EUT standby(Operation)
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7.5.3 Test Setup Diagram



7.5.4 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



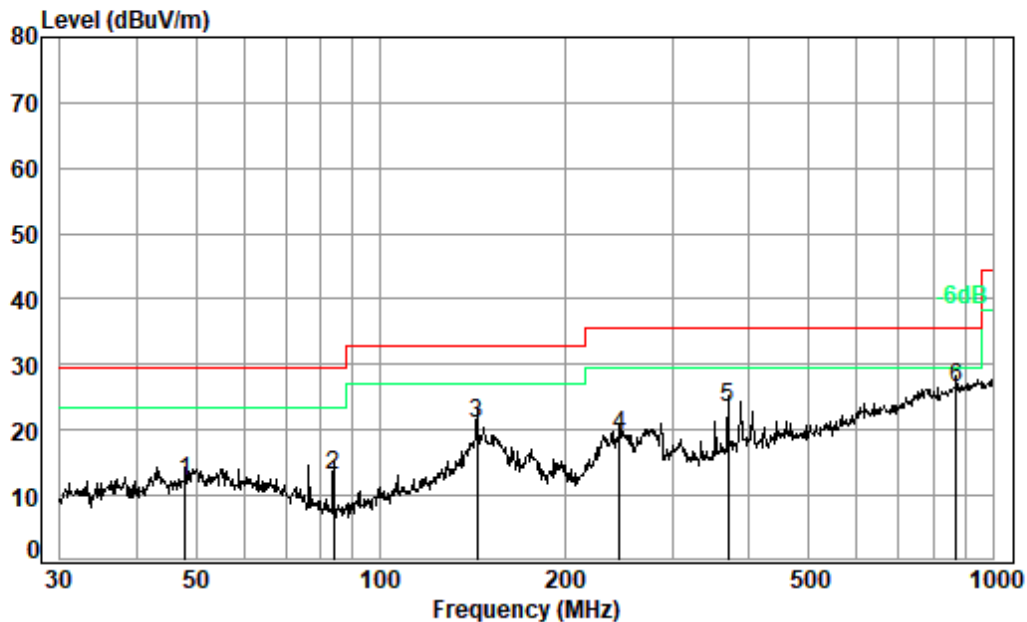
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Test Mode: 11; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 01071AT

Test Mode: 11

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.994	26.52	17.95	0.24	32.40	12.31	29.50	-17.19	QP
2	83.816	32.64	12.36	0.61	32.50	13.11	29.50	-16.39	QP
3	143.830	35.38	17.44	0.65	32.50	20.97	33.00	-12.03	QP
4	245.951	34.82	15.85	0.88	32.50	19.05	35.60	-16.55	QP
5	369.405	35.26	19.10	1.39	32.43	23.32	35.60	-12.28	QP
6 pp	872.183	28.50	27.30	2.63	32.11	26.32	35.60	-9.28	QP



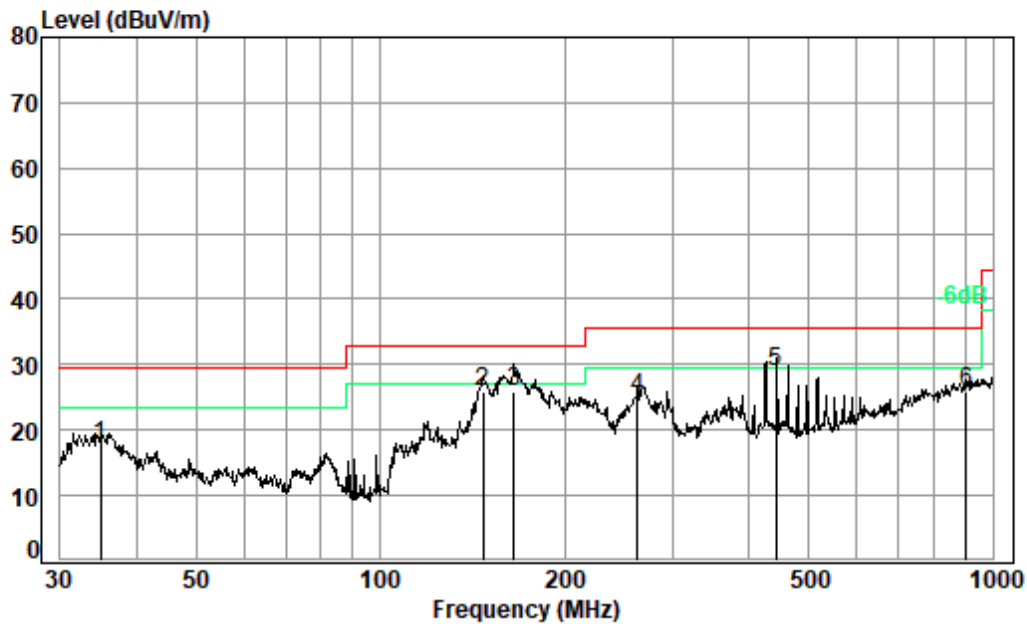
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Test Mode: 11; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 01071AT

Test Mode: 11

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	35.005	33.26	16.55	0.12	32.40	17.53	29.50	-11.97	QP
2	147.404	39.90	17.67	0.64	32.50	25.71	33.00	-7.29	QP
3	165.487	40.40	17.49	0.61	32.50	26.00	33.00	-7.00	QP
4	262.896	40.12	16.25	0.98	32.50	24.85	35.60	-10.75	QP
5 pp	443.294	38.87	20.98	1.62	32.49	28.98	35.60	-6.62	QP
6	903.309	27.62	27.41	2.66	31.98	25.71	35.60	-9.89	QP



8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2603001071AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2603001071AT

- End of the Report -

