

TEST REPORT

On behalf of

Dongguan Huayi Stationery Leather Co., Ltd.

Product Name	FSC Mix Vienna Wireless Charging Writing Pad	FSCR Mix 5.5 x 8.5 Walton Wireless Charging Journal
Model No.	0911-07BK	2800-58BK

FCC ID: 2BVE2-0911-07

Prepared For: Dongguan Huayi Stationery Leather Co., Ltd.
Room 201, Building 2, No.50, Longjing Road Guanjingtou,
Fenggang Town, Dongguan City, Guangdong, China

Prepared By: Audix Technology (Shanghai) Co., Ltd.
3F, Building 34, No. 680 Guiping Rd.,
Caohejing, Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500



File No. : C1D2603020
Report No. : ACI-F26065
Date of Test : 2026.03.21-26
Date of Report : 2026.04.09

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

TABLE OF CONTENTS

	Page
1 SUMMARY OF STANDARDS AND RESULTS	4
1.1 Description of Standards and Results	4
2 GENERAL INFORMATION	5
2.1 Description of Equipment Under Test	5
2.2 EUT Specifications Assessed in Current Report	6
2.3 Test Information	6
2.4 Sample Description	6
2.5 Supported equipment	6
2.6 Description of Test Facility	6
3 CONDUCTED EMISSION TEST	7
3.1 Test Equipment	7
3.2 Block Diagram of Test Setup	7
3.3 Conducted Emission Limits (§15.207)	8
3.4 Test Configuration	8
3.5 Operating Condition of EUT	8
3.6 Test Procedures	8
3.7 Test Results	9
4 RADIATED EMISSION TEST	14
4.1 Test Equipment	14
4.2 Block Diagram of Test Setup	15
4.3 Radiated Emission Limit (§15.205&15.209)	16
4.4 Test Configuration	18
4.5 Operating Condition of EUT	18
4.6 Test Procedures	18
4.7 Test Results	19
5 20 DB BANDWIDTH MEASUREMENT	28
5.1 Test Equipment	28
5.2 Block Diagram of Test Setup	28
5.3 Specification Limits (§15.215(c))	28
5.4 Operating Condition of EUT	28
5.5 Test Procedure	28
5.6 Test Results	29
6 ANTENNA REQUIREMENT	31
6.1 Specification Limits (§15.203)	31
6.2 Result	31
7 DEVIATION TO TEST SPECIFICATIONS	32
8 MEASUREMENT UNCERTAINTY LIST	33
APPENDIX I PHOTOGRAPHS OF TEST	TOTAL 4 PAGES
APPENDIX II PHOTOGRAPHS OF EUT	TOTAL 14 PAGES

TEST REPORT

Applicant : Dongguan Huayi Stationery Leather Co., Ltd.
EUT Description : FSC Mix Vienna Wireless Charging Writing Pad,
FSCR Mix 5.5 x 8.5 Walton Wireless Charging Journal
(A) Model No. : Refer to Sec.2.1
(B) Power Supply : DC 5V
(C) Test Voltage : AC 120V/60Hz to Adapter

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C
AND ANSI C63.10:2020*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec.2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

Date of Test : 2026.03.21-26 Date of Report : 2026.04.09

Producer : Huimin Yan
HUIMIN YAN / Assistant

Review : Jarey Lu
JAREY LU / Assistant Manager

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Kamp Chen
Authorized Signature(s) KAMP CHEN / Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The result is determined according to the decision rules of customer selection in the ASC-403 application service form.

1. According to IEC GUIDE 115 Procedure 2 and ILAC-G8, the uncertainties value is not used in determining the PASS/FAIL results.

2. If the required specification or standard already contains the decision rules, it will be carried out in accordance with the regulations or standard documents or the requirements of the competent units. If the required specification or standard does not contain a decision rule, the same paragraph 1.

3. If your company has a required decision rule, it will be implemented in accordance with the requirements and ISO/IEC Guide 98-4 specifications.

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.209(a) 15.205(a)(c)
20 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 2 SUBPART J AND ANSI C63.10:2020	Pass	15.215(c)
Antenna Requirement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.203
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Product Name	FSC Mix Vienna Wireless Charging Writing Pad	FSCR Mix 5.5 x 8.5 Walton Wireless Charging Journal
Model No.	0911-07BK	2800-58BK

Note#1 : The Models are all the same except for the housing. The model “2800-58BK” is identical in electrical to the model “0911-07BK”. According to the difference, we select model “0911-07BK” to do the test.

Test Model : 0911-07BK

Power Rating : Input voltage/current: 5V/1.0A
Output Power: 5W

Technology : Wireless Power Charging

Frequency Range: 111-148 kHz

Modulation : ASK

Antenna Info. : Antenna Type: Loop Coil Antenna

Applicant : Dongguan Huayi Stationery Leather Co., Ltd.
Room 201, Building 2, No.50, Longjing Road Guanjingtuo,
Fenggang Town, Dongguan City, Guangdong, China

Manufacturer : Same as Applicant.

Factory : Same as Applicant.

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation
WPC	ASK

2.3 Test Information

The EUT was operated under the following conditions.

Mode	Conditions	Output Power	Battery status	Remark
1	Adapter + EUT + iPhone X	5W	5%	Recorded
2	Adapter + EUT + iPhone X	5W	50%	Pre-tested
3	Adapter + EUT + iPhone X	5W	95%	Recorded
All the modes were pre-tested, the worst case mode (1, 3) recorded in the current report.				

2.4 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
All test	0911-07BK	E20260313-06-01/01	2026.03.13

2.5 Supported equipment

Product Name : AC-DC adapter
 Brand : XIAOMI
 Mode Number : MDY-08-ES
 Input : 100-240VAC, 50/60Hz, 0.5A
 Output : DC5V/3A, DC9V/2A, DC12V/1.5A

Product Name : Mobile Phone
 Mode Number : iPhone X

2.6 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.
 Site Location : 3F, Building 34, No. 680 Guiping Rd.,
 Caohejing, Hi-Tech Park,
 Shanghai 200233, China
 Accredited by NVLAP, Lab Code : 200371-0
 FCC Designation Number : CN5027
 Test Firm Registration Number : 954668

3 CONDUCTED EMISSION TEST

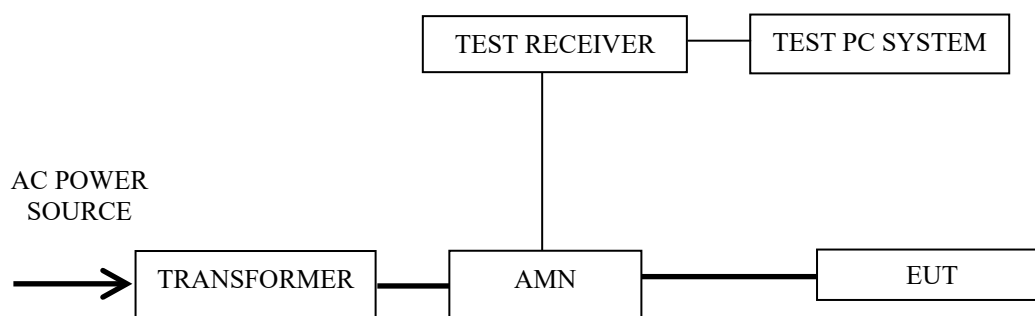
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101302	2026.02.24	1 Year
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	2026.02.24	1 Year
3.	Fixed Attenuator	SHYL	TTS-1	001	2026.02.24	1 Year
4.	50Ω Coaxial Switch	Anritsu	MP59B	6200655085	2026.02.24	1 Year
5.	Coaxial Cable	Audix	CE Cable	CE-SH1-001	2026.02.24	1 Year
6.	Software	Audix	e3	e3.v9.210616	--	--

3.2 Block Diagram of Test Setup

3.2.1 Conducted Disturbance Test Setup



— : Signal Line

— : Power Line

3.3 Conducted Emission Limits (§15.207)

Frequency Range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

3.6 Test Procedures

The EUT was placed upon a non-metallic table, which is 0.8 m above the horizontal conducting ground plane and 0.4 m from a vertical reference plane. The EUT was connected to the power mains through an Artificial Mains Network (AMN) to provide a 50 Ω coupling impedance for the measuring equipment. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission according to FCC Part 15 Subpart C and ANSI C63.10:2020 requirements during conducted disturbance test.

The I.F. bandwidth of Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

Test with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. (According to KDB 174176 D01 Line Conducted FAQ)

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Worst case emission:

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Charging	Mode 1	--	146 kHz	P10-11
2.	Charging	Mode 3	--	146 kHz	P12-13

NOTE 1 – Emission Level = Read Level + AMN Factor + Aux Factor + Cable Loss

Margin = Limits - Emission Level

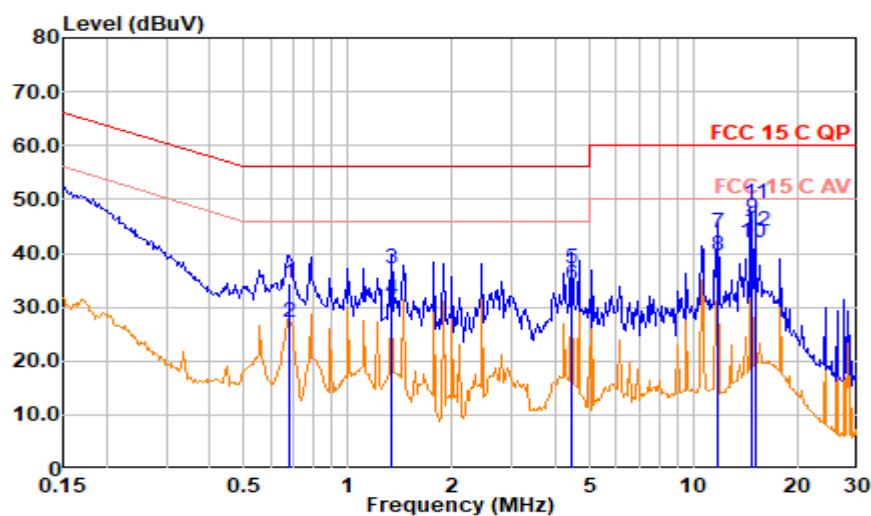
NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – The emission levels which not reported are too low against the official limit.

Worst case emission

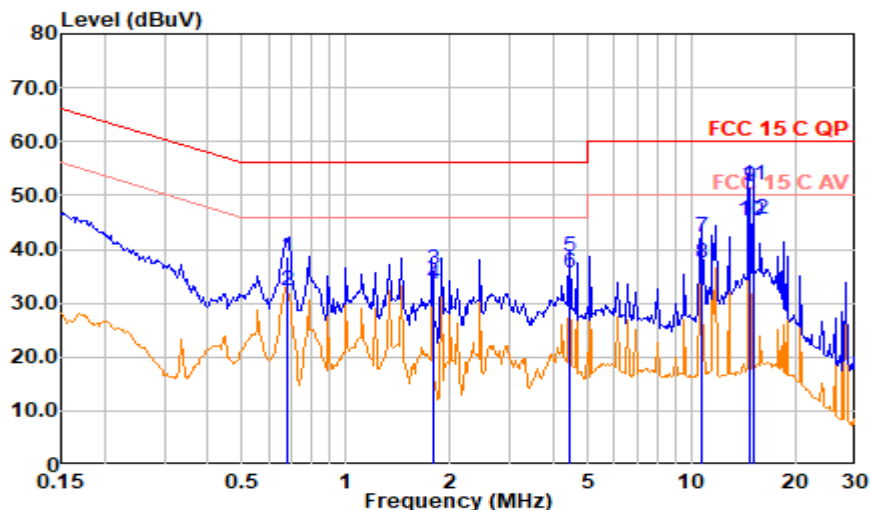
Test Date:	2026.03.26	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------	-------------	------------	----------	-------

Mode: Mode 1

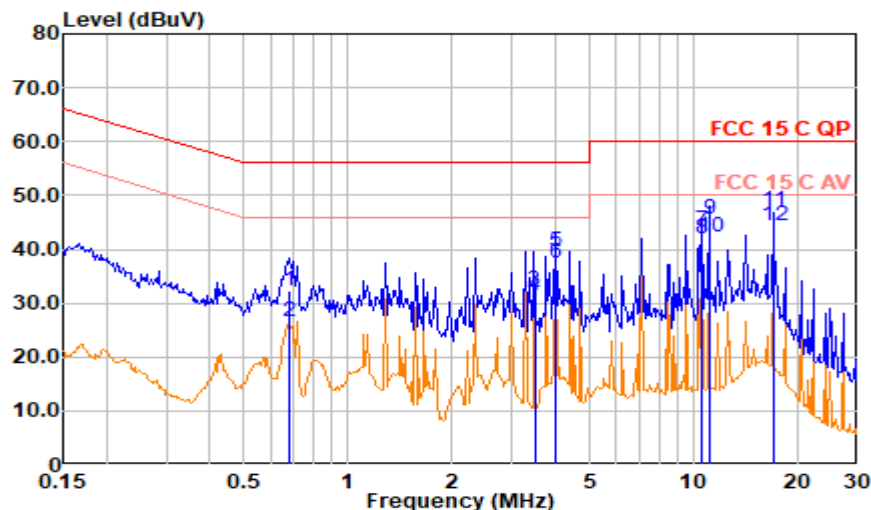


Polarization at Line

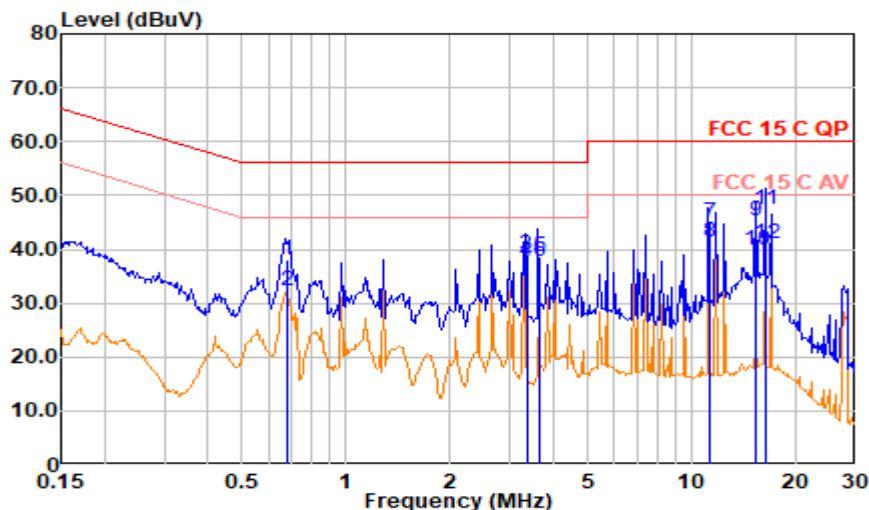
Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.680	24.50	0.20	9.50	0.13	34.33	56.00	21.67	QP
0.680	17.40	0.20	9.50	0.13	27.23	46.00	18.77	Average
1.340	27.22	0.20	9.50	0.14	37.06	56.00	18.94	QP
1.340	21.45	0.20	9.50	0.14	31.29	46.00	14.71	Average
4.465	27.12	0.35	9.50	0.17	37.14	56.00	18.86	QP
4.465	24.11	0.35	9.50	0.17	34.13	46.00	11.87	Average
11.830	33.43	0.54	9.50	0.20	43.68	60.00	16.32	QP
11.830	29.44	0.54	9.50	0.20	39.69	50.00	10.31	Average
14.730	36.03	0.60	9.51	0.22	46.36	60.00	13.64	QP
14.730	31.77	0.60	9.51	0.22	42.10	50.00	7.90	Average
15.180	38.93	0.61	9.51	0.23	49.27	60.00	10.73	QP
15.180	33.80	0.61	9.51	0.23	44.14	50.00	5.86	Average

Mode: Mode 1**Polarization at Neutral**

Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.680	28.84	0.12	9.50	0.13	38.59	56.00	17.41	QP
0.680	22.67	0.12	9.50	0.13	32.42	46.00	13.58	Average
1.786	26.40	0.20	9.50	0.14	36.24	56.00	19.76	QP
1.786	23.76	0.20	9.50	0.14	33.60	46.00	12.40	Average
4.464	28.56	0.30	9.50	0.17	38.53	56.00	17.47	QP
4.464	25.77	0.30	9.50	0.17	35.74	46.00	10.26	Average
10.710	32.25	0.42	9.50	0.20	42.36	60.00	17.64	QP
10.710	27.46	0.42	9.50	0.20	37.57	50.00	12.43	Average
14.730	41.25	0.50	9.51	0.22	51.48	60.00	8.52	QP
14.730	35.05	0.50	9.51	0.22	45.28	50.00	4.72	Average
15.180	41.78	0.51	9.51	0.23	52.02	60.00	7.98	QP
15.180	35.36	0.51	9.51	0.23	45.60	50.00	4.40	Average

Mode: Mode 3**Polarization at Line**

Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.680	22.32	0.20	9.50	0.13	32.15	56.00	23.85	QP
0.680	16.84	0.20	9.50	0.13	26.67	46.00	19.33	Average
3.477	22.44	0.30	9.50	0.15	32.39	56.00	23.61	QP
3.477	21.38	0.30	9.50	0.15	31.33	46.00	14.67	Average
3.989	29.68	0.30	9.50	0.16	39.64	56.00	16.36	QP
3.989	27.56	0.30	9.50	0.16	37.52	46.00	8.48	Average
10.580	33.35	0.51	9.50	0.19	43.56	60.00	16.44	QP
10.580	31.82	0.51	9.50	0.19	42.03	50.00	7.97	Average
11.150	35.44	0.53	9.50	0.20	45.67	60.00	14.33	QP
11.150	32.05	0.53	9.50	0.20	42.28	50.00	7.72	Average
17.080	36.77	0.69	9.51	0.24	47.21	60.00	12.79	QP
17.080	33.84	0.69	9.51	0.24	44.28	50.00	5.72	Average

Mode: Mode 3**Polarization at Neutral**

Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.674	28.30	0.12	9.50	0.13	38.05	56.00	17.95	QP
0.674	22.57	0.12	9.50	0.13	32.32	46.00	13.68	Average
3.340	29.16	0.24	9.50	0.15	39.05	56.00	16.95	QP
3.340	27.97	0.24	9.50	0.15	37.86	46.00	8.14	Average
3.622	28.72	0.27	9.50	0.15	38.64	56.00	17.36	QP
3.622	27.72	0.27	9.50	0.15	37.64	46.00	8.36	Average
11.260	34.98	0.43	9.50	0.20	45.11	60.00	14.89	QP
11.260	31.12	0.43	9.50	0.20	41.25	50.00	8.75	Average
15.450	34.98	0.52	9.51	0.23	45.24	60.00	14.76	QP
15.450	29.72	0.52	9.51	0.23	39.98	50.00	10.02	Average
16.390	37.23	0.56	9.51	0.23	47.53	60.00	12.47	QP
16.390	30.88	0.56	9.51	0.23	41.18	50.00	8.82	Average

4 RADIATED EMISSION TEST

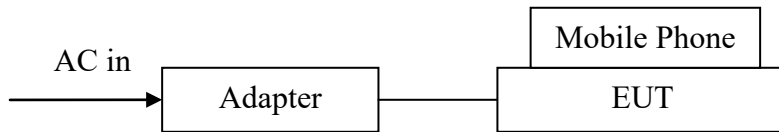
4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

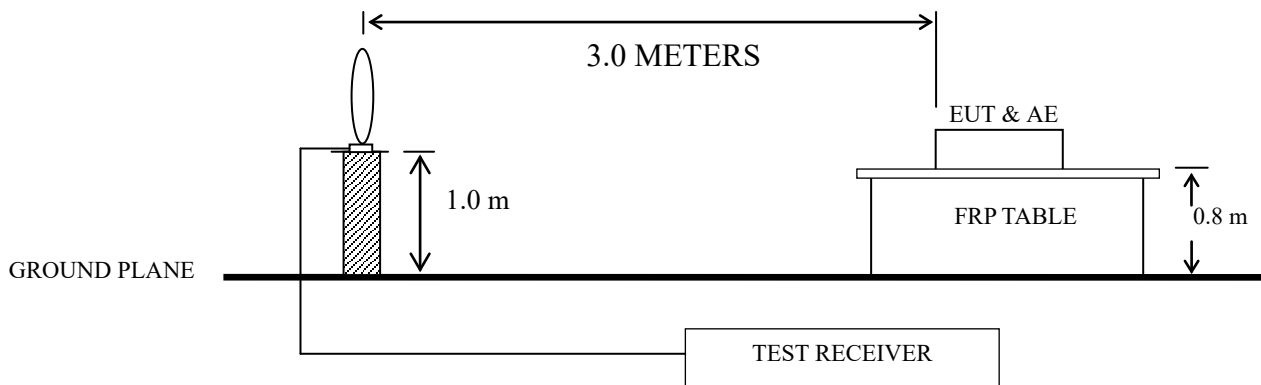
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2026.02.24	1 Year
2.	Test Receiver	R&S	ESCI	101303	2026.02.24	1 Year
3.	Bilog Antenna+6dB Attenuator	Schwarzbeck	VULB 9168+EMCI- N-6-06	707+AT- N0637	2025.08.06	1 Year
4.	Loop Antenna	Schaffner	HLA6120	1193	2025.08.04	1 Year
5.	RE Cable-3m+Coaxia l Switch	TIMES+ANRI TSU	LMR400-NM NM-3.0M+M P59B	20250211-0001 +6200655086	2026/2/24	1 Year
6.	RE Cable-1m+11m	TIMES	LMR400UF-N MNM-1.0M+ LMR400UF-N MNM-11.0M	20260303-001	2026/2/24	1 Year
7.	Software	Audix	e3	v9.210616	--	--

4.2 Block Diagram of Test Setup

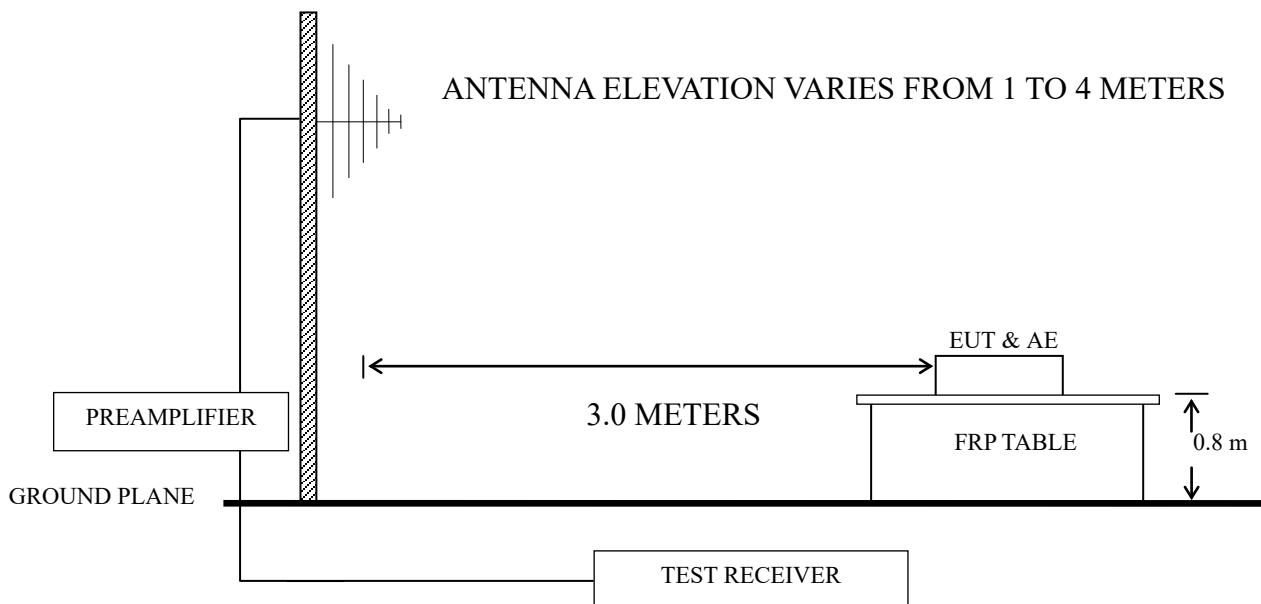
4.2.1 EUT & Peripherals



4.2.2 9kHz to 30MHz



4.2.3 30MHz to 1GHz



4.3 Radiated Emission Limit (§15.205&15.209)

§15.205(a):

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41			

§15.209(a):

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
0.009 ~ 0.490	300	2400/F(kHz)	20log(2400/F(kHz))
0.490 ~ 1.705	30	24000/F(kHz)	20log(24000/F(kHz))
1.705 ~ 30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m)			
NOTE 2 - The tighter limit applies at the band edges.			
NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.			
NOTE 4 - The limits shown are based on Quasi-peak value detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. The limits in these three bands are based on average detector.			

According to the ANSI C63.10, section 6.4: For Radiated Emissions from unlicensed wireless devices below 30MHz. When performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by using one of the methods described in 6.4.4 or 6.4.5.

In the report, The EUT was measured at 3 meter, the limit should be extrapolated. According to the Section 6.4.4 of ANSI C63.10, the extrapolation factor was based on to the relationship of $d_{\text{near field}}$, d_{measure} and d_{limit} .

The finally selection of Extrapolated Equations were showed as below:

Frequency Range (MHz)	Measurement distance d_{measure} (m)	Reference limit distance d_{limit} (m)	Equation applied
0.009 to 0.159	3	300	Equation (4)
0.159 to 0.49	3	300	Equation (2)
0.49 to 1.075	3	30	Equation (4)
1.075 to 1.59	3	30	Equation (4)
1.59 to 15.9	3	30	Equation (2)
15.9 to 30	3	30	Equation (3)

where

the $d_{\text{near field}}$ is the near field distance that determined as Equation (1):

$$d_{\text{near field}} = 47.77 / f_{\text{MHz}} \quad (1)$$

the d_{measure} is the measurement distance

the d_{limit} is the reference limit distance

The Equation (2) (3) (4) as below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{near field}}}{d_{\text{measure}}} \right) - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{near field}}} \right) \quad (2)$$

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right) \quad (3)$$

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right) \quad (4)$$

Finally, the limit at 3 meter (9k to 30MHz) can extrapolated as below:

Frequency (MHz)	Reference limit Distance (m)	Measurement distance (m)	Field strength limits dB(μV/m) at 3m measurement distance
0.009 ~ 0.159	300	3	$20 \log(2400/F(\text{kHz})) + 80$
0.159 ~ 0.49	30	3	$20 \log(24000/F(\text{kHz})) + 20 \log[(300*47770)/(3*3*F(\text{kHz}))]$
0.49 ~ 1.075	30	3	$20 \log(24000/F(\text{kHz})) + 40$
1.075 ~ 1.59	30	3	69.54
1.59 ~ 15.9	30	3	$29.54 + 20 \log[(30*47770)/(3*3*F(\text{kHz}))]$
15.9 ~ 30	30	3	59.54

4.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 4.2.

4.5.2 Turn EUT on, then test.

4.5.3 Repeat step 4.5.1 and 4.5.2, until the test of all modes finished.

4.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. For below 30MHz, the loop antenna set 1 meter high to find out maximum emission level, both 0 deg and 90 deg polarizations of antenna were set on measurement. For above 30MHz, the antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10:2020 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 200Hz for range from 9kHz to 150kHz, set at 9kHz from 150kHz to 30MHz, and set to 120 kHz from 30MHz to 1000MHz.

The frequency range from 9kHz to 1GHz (at least up to 10th harmonics from fundamental frequency) was checked.

All the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Frequency range: 9 kHz to 30 MHz

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Charging	Mode 1	--	146 kHz	P20-21
2.	Charging	Mode 3	--	146 kHz	P22-23

Frequency range: 30 MHz to 1GHz

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Charging	Mode 1	--	146 kHz	P24-25
2.	Charging	Mode 4	--	146 kHz	P26-27

NOTE 1 – For 9 kHz to 30 MHz:

Emission Level = Read Level + Antenna Factor + Cable Loss

Margin = Limits - Emission Level.

For 30 MHz to 1 GHz:

Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values.

NOTE 3 – For the degree of table, 0° was the table front facing the antenna.

Degree is calculated from 0° clockwise facing the antenna.

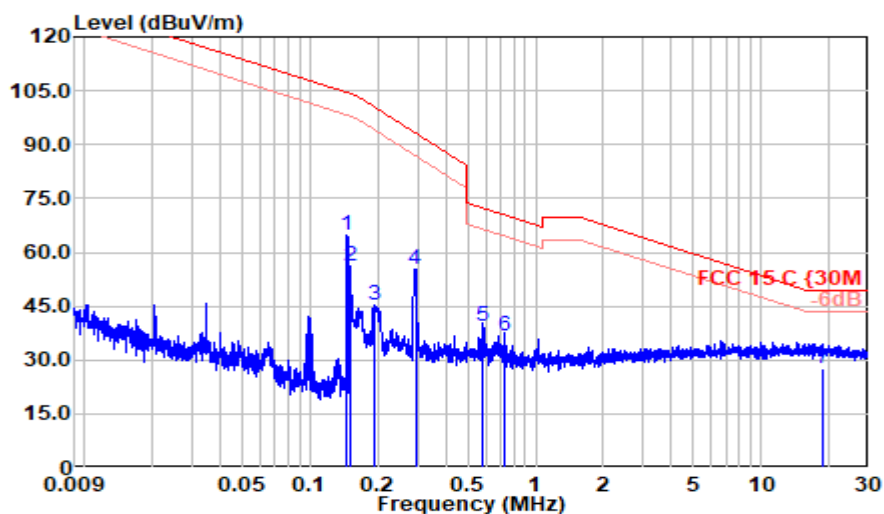
NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 6 – All reading are Quasi-Peak values except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. The Peak and Average values are reading in these three frequency bands. And for these three frequency bands, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

Radiated emission (9 kHz to 30 MHz)

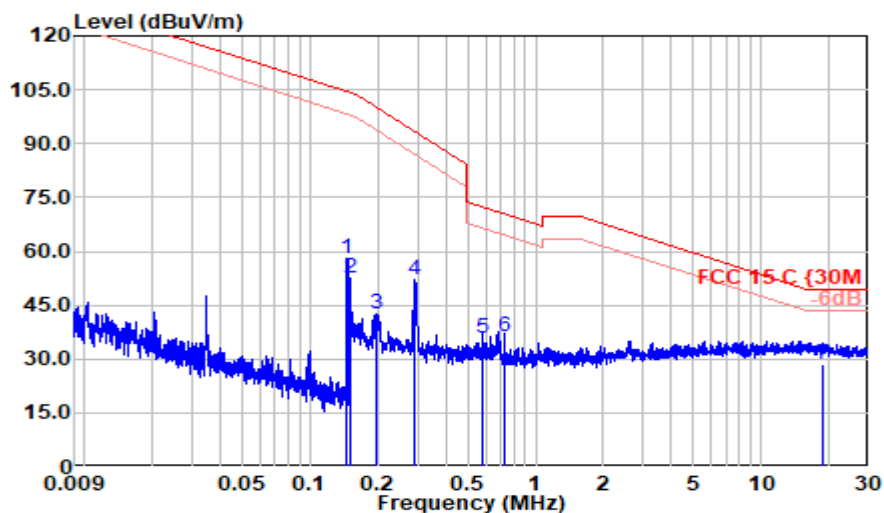
Test Date:	2026.03.21	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------	-------------	------------	----------	-------

Mode: Mode 1



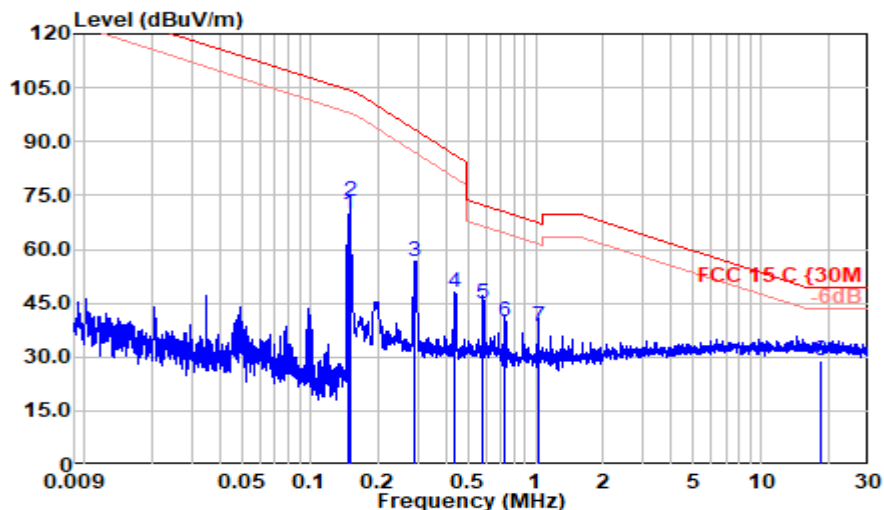
Polarization at 0 degree

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
0.146	45.77	18.76	0.20	64.73	104.29	39.56	Fundamental Peak
0.150	37.16	18.76	0.20	56.12	104.08	47.97	Peak
0.192	26.18	18.72	0.21	45.10	100.27	55.17	Peak
0.293	36.62	18.64	0.21	55.47	92.95	37.48	Peak
0.587	20.77	18.52	0.22	39.51	72.23	32.72	QP
0.733	18.10	18.49	0.22	36.81	70.30	33.49	QP
18.721	8.54	18.45	0.51	27.50	49.54	22.04	QP

Mode: Mode 1

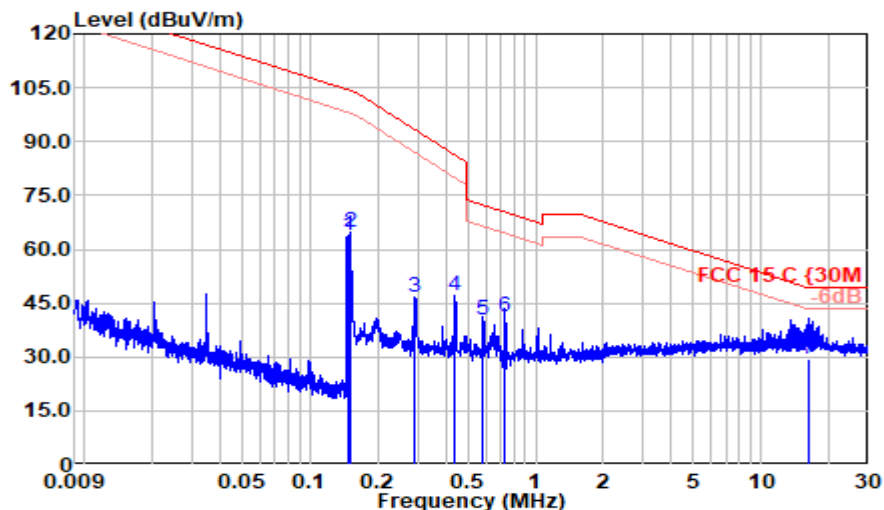
Polarization at 90 degree

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
0.146	39.02	18.76	0.20	57.99	104.29	46.31	Fundamental Peak
0.150	33.77	18.76	0.20	52.73	104.08	51.36	Peak
0.196	23.78	18.71	0.21	42.70	99.99	57.29	Peak
0.292	33.20	18.64	0.21	52.06	93.06	41.00	Peak
0.585	17.25	18.52	0.22	35.99	72.25	36.26	QP
0.731	17.61	18.49	0.22	36.32	70.32	33.99	QP
18.721	9.34	18.45	0.51	28.30	49.54	21.24	QP

Mode: Mode 3

Polarization at 0 degree

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
0.147	50.79	18.76	0.20	69.76	104.28	34.52	Fundamental Peak
0.150	54.18	18.76	0.20	73.14	104.08	30.94	Peak
0.292	37.81	18.64	0.21	56.67	93.02	36.35	Peak
0.440	29.35	18.57	0.21	48.13	85.91	37.78	Peak
0.587	26.21	18.52	0.22	44.95	72.23	27.28	QP
0.731	21.16	18.49	0.22	39.87	70.32	30.45	QP
1.027	19.96	18.45	0.23	38.64	67.37	28.73	QP
18.524	10.13	18.45	0.51	29.09	49.54	20.45	QP

Mode: Mode 3

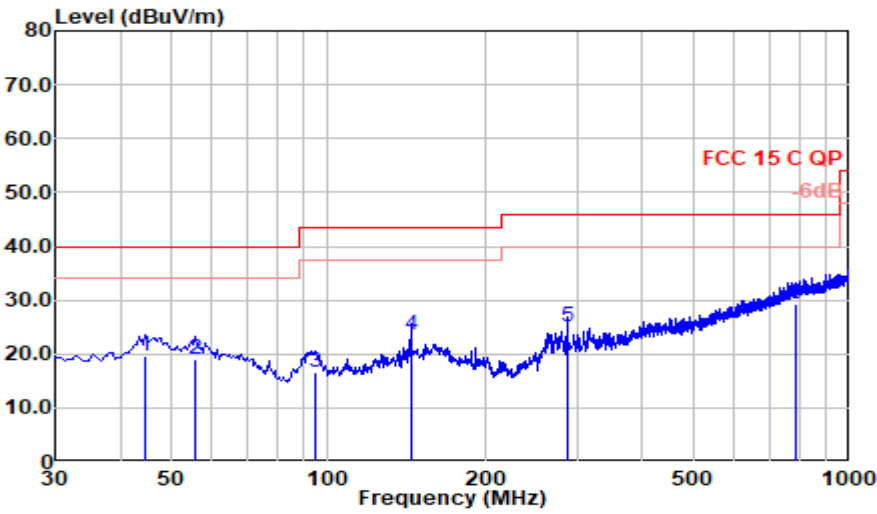
Polarization at 90 degree

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
0.147	44.80	18.76	0.20	63.76	104.28	40.51	Fundamental Peak
0.150	45.63	18.76	0.20	64.59	104.08	39.49	Peak
0.292	27.63	18.64	0.21	46.48	93.06	46.58	Peak
0.438	28.54	18.57	0.21	47.32	85.98	38.66	Peak
0.583	21.48	18.52	0.22	40.22	72.28	32.07	QP
0.731	22.66	18.49	0.22	41.37	70.32	28.95	QP
16.398	10.54	18.52	0.48	29.54	49.54	20.00	QP

Radiated Emission (30 MHz to 1 GHz)

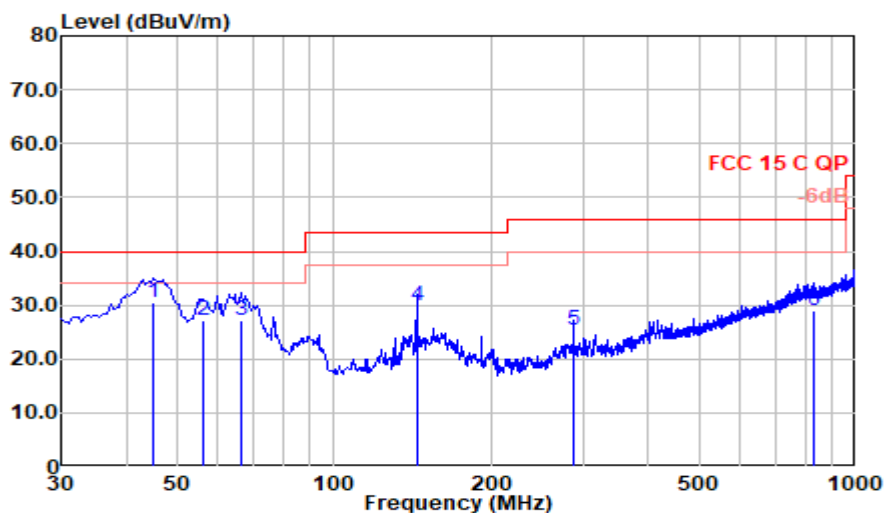
Test Date:	2026.03.21	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------	-------------	------------	----------	-------

Mode: Mode 1



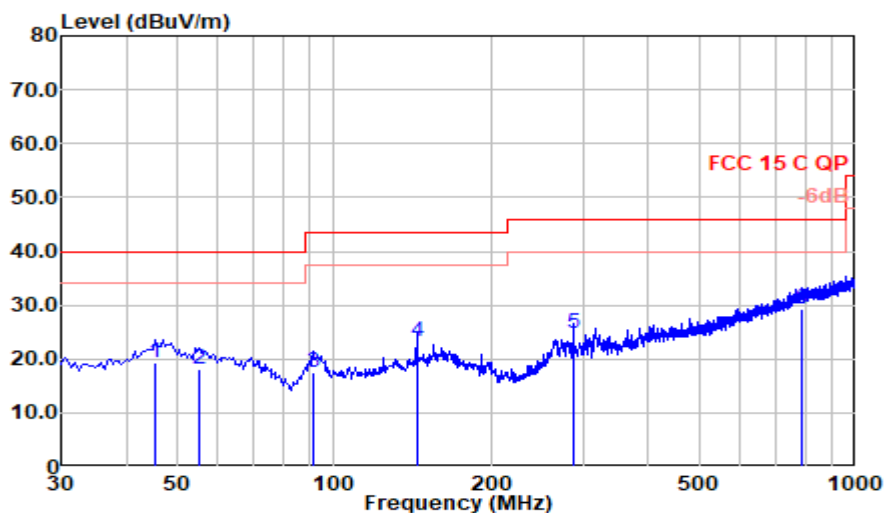
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
44.55000	28.70	19.51	0.80	29.52	19.50	40.00	20.50	QP
55.70500	27.97	19.73	0.88	29.48	19.10	40.00	20.90	QP
94.99000	29.91	15.00	1.16	29.48	16.59	43.50	26.91	QP
143.97500	32.35	19.00	1.34	29.07	23.61	43.50	19.89	QP
288.02000	32.15	19.16	2.01	28.38	24.95	46.00	21.05	QP
790.48000	25.43	28.30	3.25	27.65	29.33	46.00	16.67	QP

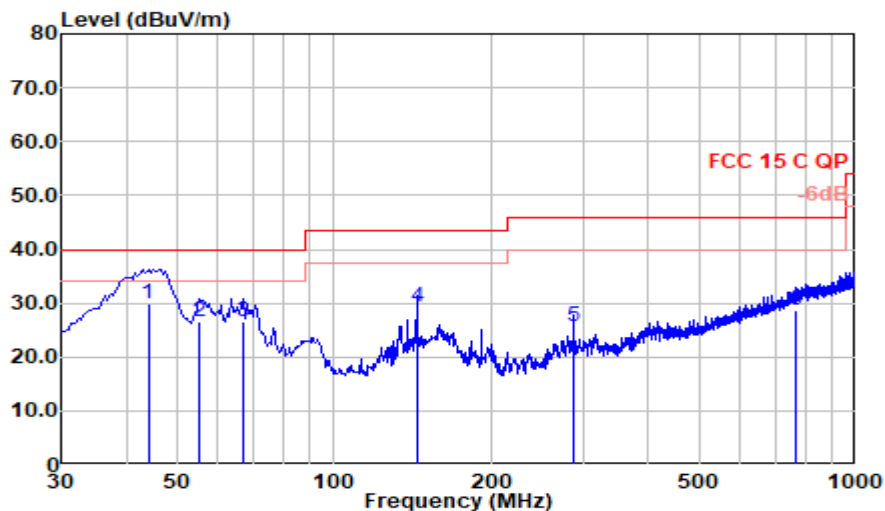
Mode: Mode 1

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
45.03500	39.57	19.60	0.81	29.52	30.46	40.00	9.54	QP
56.19000	35.95	19.68	0.89	29.48	27.05	40.00	12.95	QP
66.37500	36.78	18.86	0.95	29.44	27.15	40.00	12.85	QP
143.97500	38.65	19.00	1.34	29.07	29.91	43.50	13.59	QP
288.02000	32.48	19.16	2.01	28.38	25.28	46.00	20.72	QP
828.31000	24.79	28.50	3.38	27.67	29.00	46.00	17.00	QP

Mode: Mode 3**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
45.52000	28.53	19.60	0.81	29.52	19.43	40.00	20.57	QP
55.22000	26.80	19.78	0.88	29.48	17.98	40.00	22.02	QP
91.11000	31.09	14.62	1.12	29.46	17.38	43.50	26.12	QP
143.97500	31.93	19.00	1.34	29.07	23.19	43.50	20.31	QP
288.02000	31.91	19.16	2.01	28.38	24.71	46.00	21.29	QP
786.11500	25.54	28.14	3.23	27.72	29.20	46.00	16.80	QP

Mode: Mode 3

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
44.06500	39.26	19.41	0.80	29.52	29.95	40.00	10.05	QP
55.22000	35.48	19.78	0.88	29.48	26.66	40.00	13.34	QP
66.86000	36.35	18.81	0.95	29.44	26.67	40.00	13.33	QP
143.97500	38.04	19.00	1.34	29.07	29.31	43.50	14.19	QP
288.02000	32.84	19.16	2.01	28.38	25.64	46.00	20.36	QP
767.20000	25.49	28.16	3.18	28.02	28.81	46.00	17.19	QP

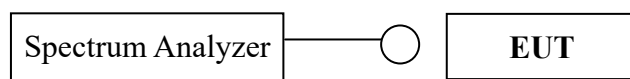
5 20 dB BANDWIDTH MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2025.07.03	1 Year

5.2 Block Diagram of Test Setup



5.3 Specification Limits (§15.215(c))

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through §15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

5.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

5.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with settings: RBW = 1% to 5% of the 20 dB Bandwidth, VBW approximately three times of RBW. Set detection mode to peak and trace mode to max hold. Set the “x dB” function to “-20 dB” on Spectrum Analyzer to measure 20 dB Bandwidth, record it.

The 20 dB bandwidth is defined as the total spectrum the power of which is lower than peak power minus 20 dB .

The test procedure is defined in ANSI C63.10:2020 (the 6.9.2 Measurement Procedure “ Occupied bandwidth—relative measurement procedure” was used).

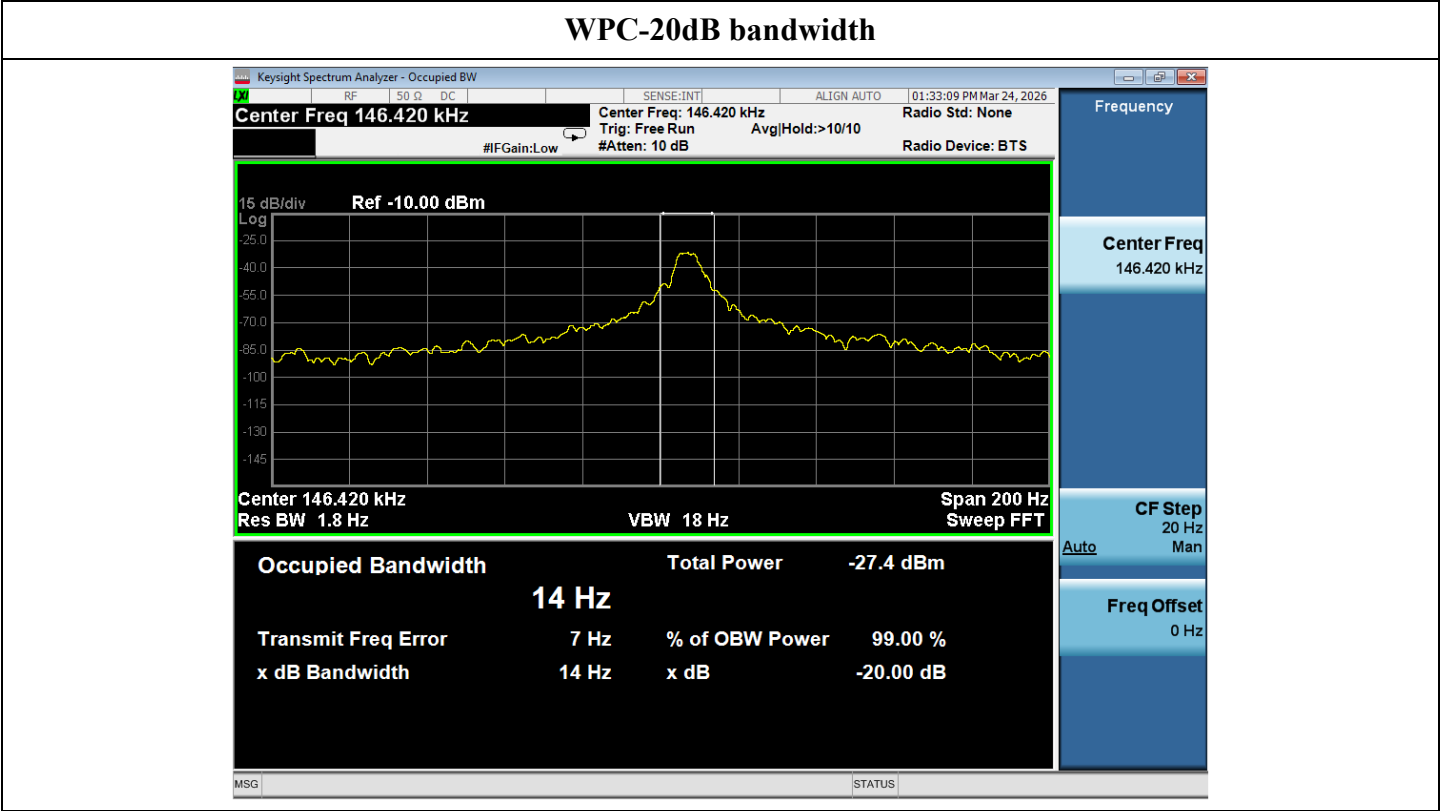
5.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2025.01.20 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (kHz)	20dB Bandwidth (Hz)
WPC	--	146.42	14



6 ANTENNA REQUIREMENT

6.1 Specification Limits (§15.203)

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.

6.2 Result

According to KDB 353028 D1, the following describes the three ways that can be used to demonstrate compliance to Section 15.203:

- a) Antenna permanently attached.
- b) Unique (non-standard) antenna connector.
- c) Professional installation.

For this product, the antenna is: an inductive loop coil Antenna, which:

- ☒ Antenna permanently attached
- ☐ Unique (non-standard) antenna connector
- ☐ Professional installation
- ☐ not meet any of ways list above

that

- ☒ compliant
- ☐ not compliant

with the requirement of Section 15.203.

7 DEVIATION TO TEST SPECIFICATIONS

None.

8 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2.

The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission No.1 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Conducted Emission No.3 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Radiated Emission	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	6×10^{-4}
Bandwidth Test	9kHz~6GHz	1.5×10^{-3}
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %

---END of REPORT---