



RF MEASUREMENT REPORT

FCC ID: WIYS1U2M4001

Applicant: CASTLES TECHNOLOGY CO., LTD.

Product: POS Terminal

Model No.: S1U2-M4

Trademark: 

FCC Classification: Part 15 Low Power Communication Device Transmitter (DXX)

FCC Rule Part(s): Part 15 Subpart C (Section 15.225)

Result: Complies

Received Date: 2025-02-12

Test Date: 2025-02-28 ~ 2025-03-05

Reviewed By:

Yuri Li

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1016023-U206	V01	Initial Report	2025-03-07	Valid

CONTENTS

Description	Page
1. General Information	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Testing Facility.....	5
1.4. Product Information	6
1.5. Radio Specification.....	6
2. Test Configuration.....	7
2.1. Test Mode	7
2.2. Test Configuration and Software.....	7
2.3. Applied Standards	7
2.4. Test Environment Condition	8
3. Antenna Requirements	9
4. Measuring Instrument.....	10
5. Decision Rules and Measurement Uncertainty.....	11
5.1. Decision Rules	11
5.2. Measurement Uncertainty	11
6. Test Result	12
6.1. Summary	12
6.2. In-band Emission Measurement	13
6.2.1. Test Limit	13
6.2.2. Test Procedure	13
6.2.3. Test Setting.....	13
6.2.4. Test Setup	14
6.2.5. Test Result.....	14
6.3. Out-band Emission Measurement.....	15
6.3.1. Test Limit	15
6.3.2. Test Procedure	15
6.3.3. Test Setting.....	15
6.3.4. Test Setup	17
6.3.5. Test Result.....	17
6.4. Occupied Bandwidth Measurement	18
6.4.1. Test Limit	18
6.4.2. Test Procedure	18
6.4.3. Test Setting.....	18

6.4.4.	Test Setup	19
6.4.5.	Test Result.....	19
6.5.	Frequency Tolerance Measurement	20
6.5.1.	Test Limit	20
6.5.2.	Test Procedure	20
6.5.3.	Test Setting.....	20
6.5.4.	Test Setup	21
6.5.5.	Test Result.....	21
6.6.	AC Conducted Emissions Measurement	22
6.6.1.	Test Limit	22
6.6.2.	Test Setup	22
6.6.3.	Test Result.....	22
Appendix A - Test Result		23
A.1	In-band Emission Test Result	23
A.2	Out-Band Emission Test Result.....	24
A.3	Occupied Bandwidth Test Result.....	26
A.4	Frequency Tolerance Test Result	27
A.5	AC Conducted Emissions Test Result.....	28
Appendix B - Test Setup Photograph.....		36
Appendix C - EUT Photograph.....		37

1. General Information

1.1. Applicant

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.2. Manufacturer

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	POS Terminal
Model No.	S1U2-M4
EUT Identification No.	20250212Sample#06
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	BT5.0
GNSS Specification	GPS, GLONASS, GALILEO, BEIDOU
NFC Specification	13.56MHz
Operating Temp.	-20 ~ 70 °C
Power Type	AC/DC Adapter
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Frequency Range	13.56MHz
Channel Number	1
Type of modulation	ASK, Amplitude Shift Keying

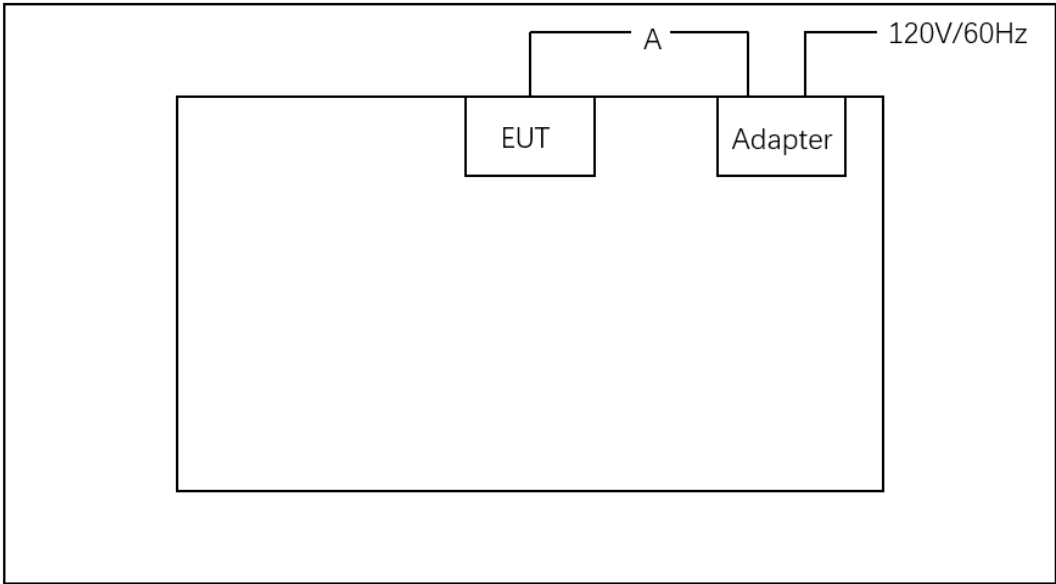
2. Test Configuration

2.1. Test Mode

Test Mode
Mode 1: Operating Mode

2.2. Test Configuration and Software

The device was tested per the guidance ANSI C63.10-2013 that was used to reference the appropriate EUT setup for radiated spurious emissions and AC line conducted emission testing.

Connection Diagram			
			
Cable Type		Cable Description	Length
A	Power Cable	Non-Shielded	1.7m

2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.225
- ANSI C63.10-2013

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~75 %RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of this device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC2/WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-AC2/WZ-TR3
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2025-12-10	WZ-TR3

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	RE Antenna & Turntable

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement

The maximum measurement uncertainty is evaluated as:

9kHz~150kHz: 3.02dB

150kHz~30MHz: 2.56dB

Radiated Emission Measurement

The maximum measurement uncertainty is evaluated as:

Coaxial: 9kHz~30MHz: 2.35dB

Coplanar: 9kHz~30MHz: 2.37dB

Horizontal: 30MHz~200MHz: 3.46dB

200MHz~1GHz: 3.78dB

Vertical: 30MHz~200MHz: 4.07dB

200MHz~1GHz: 5.28dB

6. Test Result

6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
15.225 (a), (b), (c)	In-Band Emission	Radiated	Pass
15.225(d)	Out-Band Emission		Pass
15.215(c)	20dB Bandwidth		Pass
15.225(e)	Frequency Tolerance		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

6.2. In-band Emission Measurement

6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.225		
Frequency (MHz)	Distance (m)	Level ($\mu\text{V/m}$)
13.553 ~13.567	30	15848
13.410 ~13.553, 13.567 ~13.710	30	334
13.110 ~13.410, 13.710 ~14.010	30	106
Note 1: The lower limit shall apply at the transition frequency.		
Note 2: 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 3: E field strength ($\text{dB}\mu\text{V/m}$) = $20 \log E$ field strength ($\mu\text{V/m}$)		

6.2.2. Test Procedure

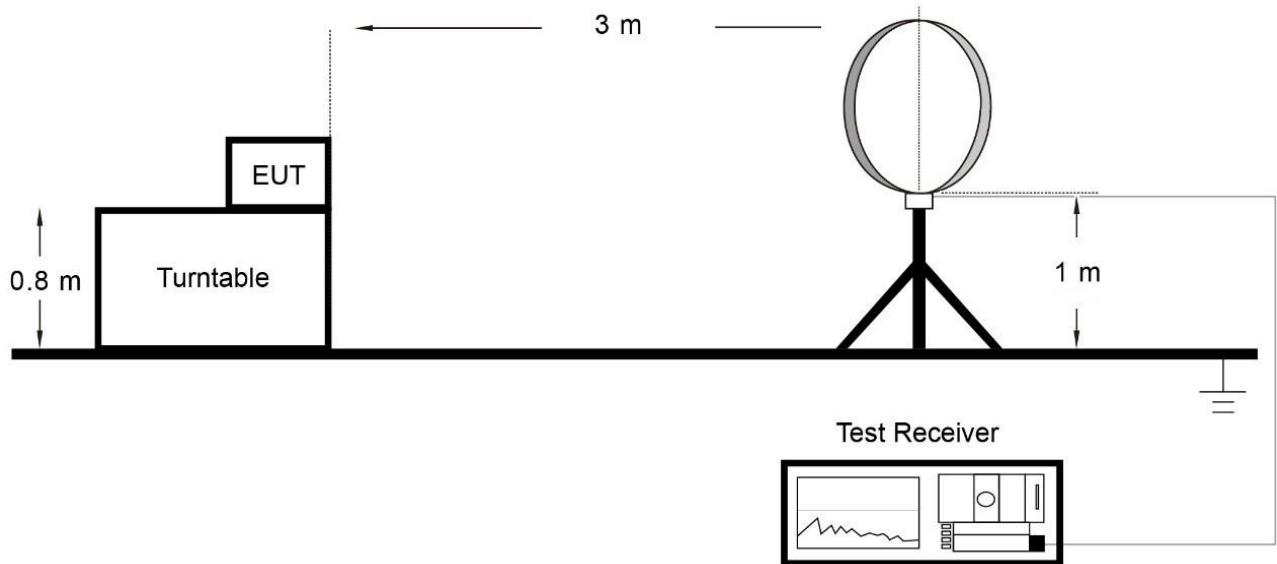
ANSI C63.10 - 2013 - Section 6.4

6.2.3. Test Setting

1. RBW = 9kHz or 10kHz
2. VBW = 3 * RBW
3. Detector = Peak
4. Trace mode = Max hold
5. Sweep = Auto couple
6. Allow the trace to stabilize

6.2.4. Test Setup

9kHz ~ 30MHz Test Setup:



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Out-band Emission Measurement

6.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level ($\mu\text{V/m}$)
0.009 - 0.490	300	2400/F (kHz)
0.490 - 1.705	30	24000/F (kHz)
1.705 - 30	30	30
30 - 88	3	100
88 - 216	3	150

Note 1: The lower limit shall apply at the transition frequency.

Note 2: 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 3: E field strength (dB $\mu\text{V/m}$) = 20 log E field strength ($\mu\text{V/m}$)

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz

Peak Measurement

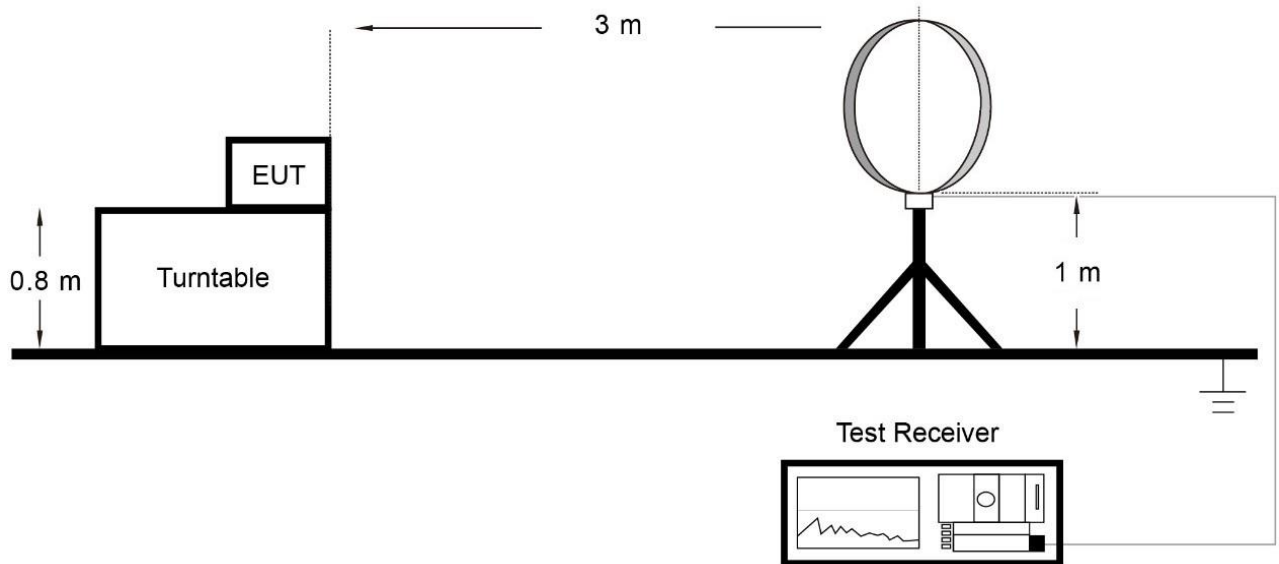
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 * RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

Quasi-Peak Measurement

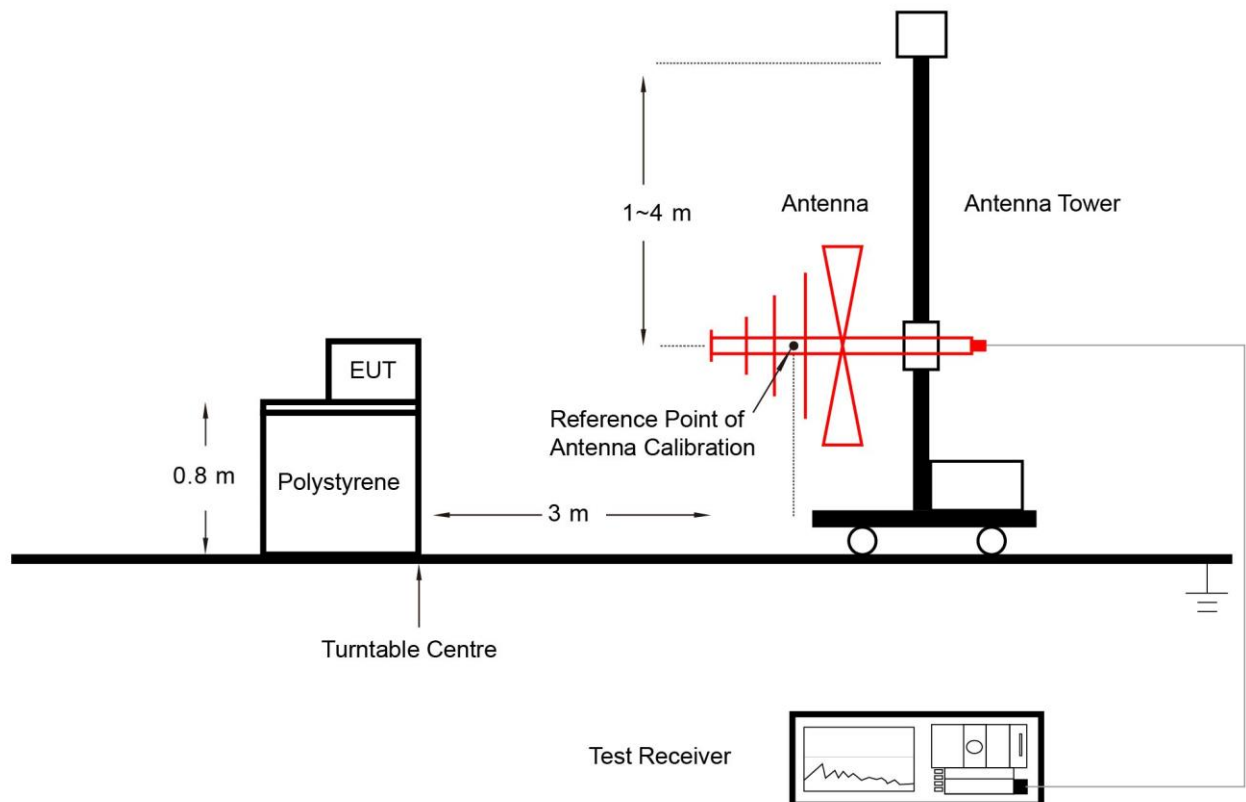
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

6.3.4. Test Setup

9kHz ~ 30MHz Test Setup:



Above 30MHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Occupied Bandwidth Measurement

6.4.1. Test Limit

The occupied bandwidth is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency.

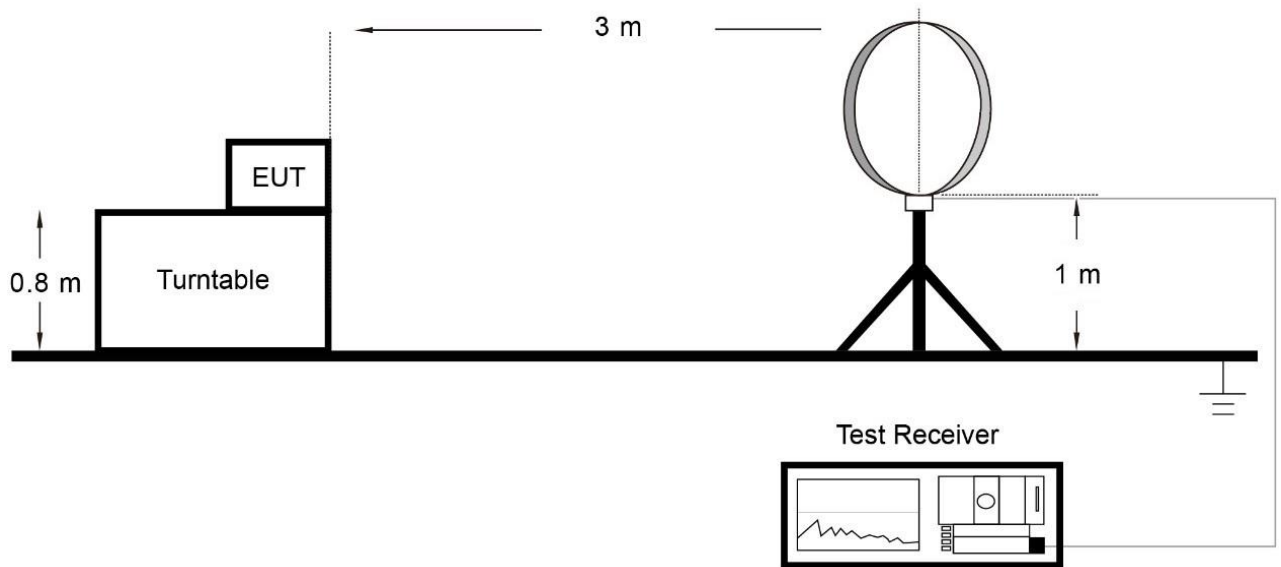
6.4.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.2

6.4.3. Test Setting

1. Set RBW $\geq$ 1% to 5% of the 20dB bandwidth
2. VBW = approximately three times RBW
3. Span = approximately 2 to 5 times the 20dB bandwidth
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Frequency Tolerance Measurement

6.5.1. Test Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 6.8

6.5.3. Test Setting

Frequency Stability Under Temperature Variations:

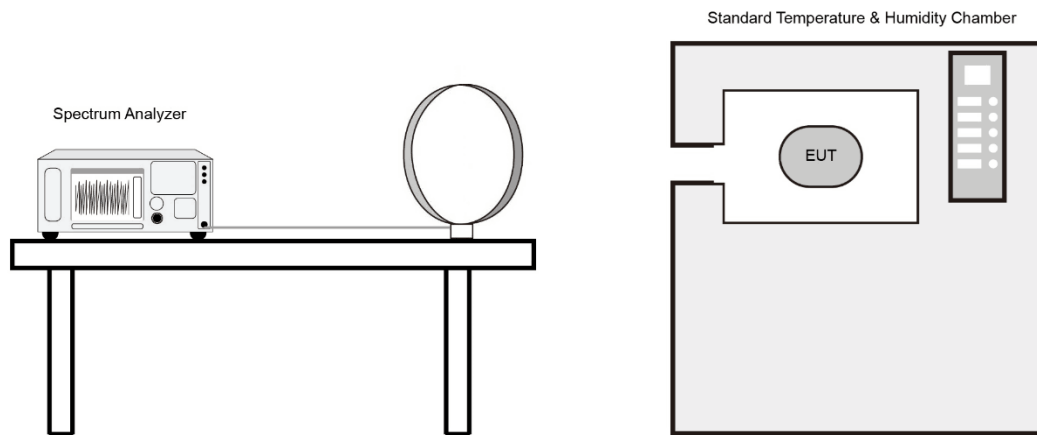
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change. For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

6.6. AC Conducted Emissions Measurement

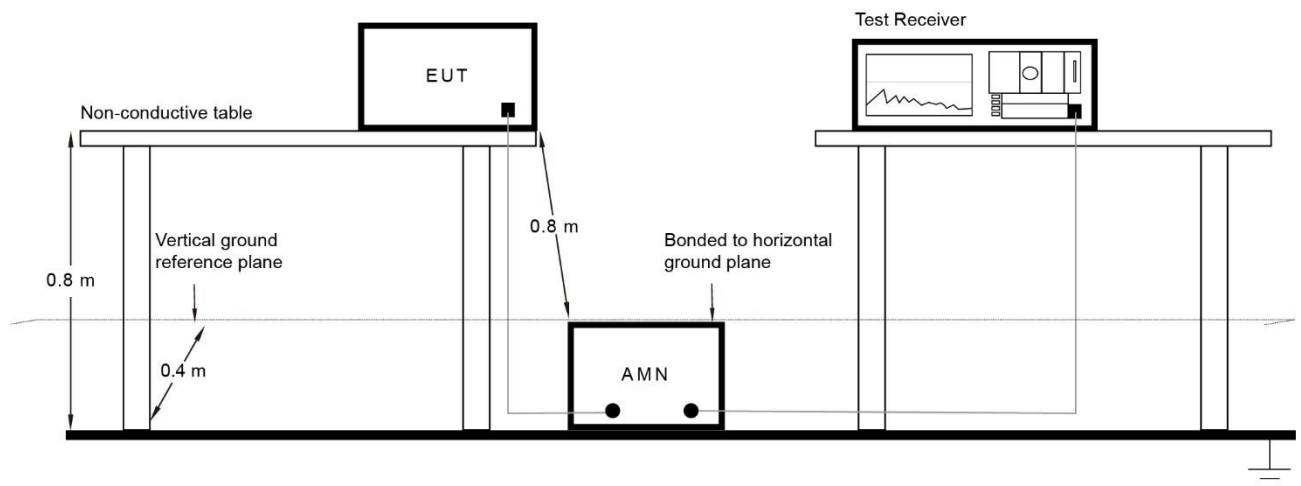
6.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 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 0.15MHz to 0.5MHz.

6.6.2. Test Setup



6.6.3. Test Result

Refer to Appendix A.5.

Appendix A - Test Result

A.1 In-band Emission Test Result

Test Site	WZ-AC2	Test Date	2025-02-28
Test Engineer	Jerry Lu	Test Mode	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level@3m (dBμV/m)	Measure Level@30m (dBμV/m)	Limit (dBμV/m)	Margin [dB]	Detector	Polarization
13.348	42.640	19.120	61.760	21.760	40.506	-18.746	Peak	Coaxial
13.553	55.540	19.120	74.660	34.660	50.475	-15.815	Peak	Coaxial
13.560	61.160	19.120	80.280	40.280	83.999	-43.719	Peak	Coaxial
13.567	55.010	19.120	74.130	34.130	50.475	-16.345	Peak	Coaxial
13.772	41.030	19.120	60.150	20.150	40.506	-20.356	Peak	Coaxial
13.348	39.050	19.120	58.170	18.170	40.506	-22.336	Peak	Coplanar
13.553	52.010	19.120	71.130	31.130	50.475	-19.345	Peak	Coplanar
13.560	57.740	19.120	76.860	36.860	83.999	-47.139	Peak	Coplanar
13.567	51.490	19.120	70.610	30.610	50.475	-19.865	Peak	Coplanar
13.772	37.480	19.120	56.600	16.600	40.506	-23.906	Peak	Coplanar

Notes:

- All measurements were performed using a loop antenna. The antenna was positioned in two orthogonal (coaxial and coplanar) and the position with the highest emission level was recorded.
- Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)
- Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).
Extrapolation Factor = $40 \cdot \log(30/3) = 40$ dB
- All measurements were recorded using an EMI test receiver employing a peak detector.

A.2 Out-Band Emission Test Result

Test Site	WZ-AC2	Test Date	2025-02-28
Test Engineer	Jerry Lu	Test Mode	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level@3m (dBμV/m)	Measure Level@300m or 30m (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
0.043	33.440	19.040	52.480	-27.520	34.935	-62.455	Peak	Coaxial
0.113	23.420	18.880	42.300	-37.700	26.543	-64.243	Peak	Coaxial
0.803	20.650	19.030	39.680	-0.320	29.51	-29.830	Peak	Coaxial
2.827	21.370	19.290	40.660	0.660	29.542	-28.882	Peak	Coaxial
0.068	26.180	18.950	45.130	-34.870	30.954	-65.824	Peak	Coplanar
0.108	21.160	18.890	40.050	-39.950	26.936	-66.886	Peak	Coplanar
1.022	19.900	19.060	38.960	-1.040	27.415	-28.455	Peak	Coplanar
2.822	21.810	19.290	41.100	1.100	29.542	-28.442	Peak	Coplanar

Notes:

- Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)
- Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m or 300m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2). Extrapolation Factor = $40 \cdot \log(300/3) = 80$ dB for range 0.009 ~ 0.490MHz,
Extrapolation Factor = $40 \cdot \log(30/3) = 40$ dB for range 0.490 ~ 30MHz,
- Below 30MHz measurement was performed using a loop antenna. The antenna was positioned in two orthogonal (Coaxial and Coplanar) and the position with the highest emission level was recorded.
- All measurements were recorded using an EMI test receiver employing a peak detector.

Out-Band Emission Above 30MHz							
Polarization	Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	40.670	4.830	19.410	24.240	40.000	-15.760	QP
H	68.512	7.380	16.880	24.260	40.000	-15.740	QP
H	94.990	4.210	17.840	22.050	43.500	-21.450	QP
H	108.473	6.850	18.300	25.150	43.500	-18.350	QP
H	162.696	5.780	15.890	21.670	43.500	-21.830	QP
H	189.849	9.190	17.970	27.160	43.500	-16.340	QP
V	33.977	6.750	17.350	24.100	40.000	-15.900	QP
V	40.670	15.250	19.410	34.660	40.000	-5.340	QP
V	50.176	4.780	20.480	25.260	40.000	-14.740	QP
V	68.601	10.620	16.820	27.440	40.000	-12.560	QP
V	108.468	6.560	18.300	24.860	43.500	-18.640	QP
V	189.843	7.720	17.970	25.690	43.500	-17.810	QP

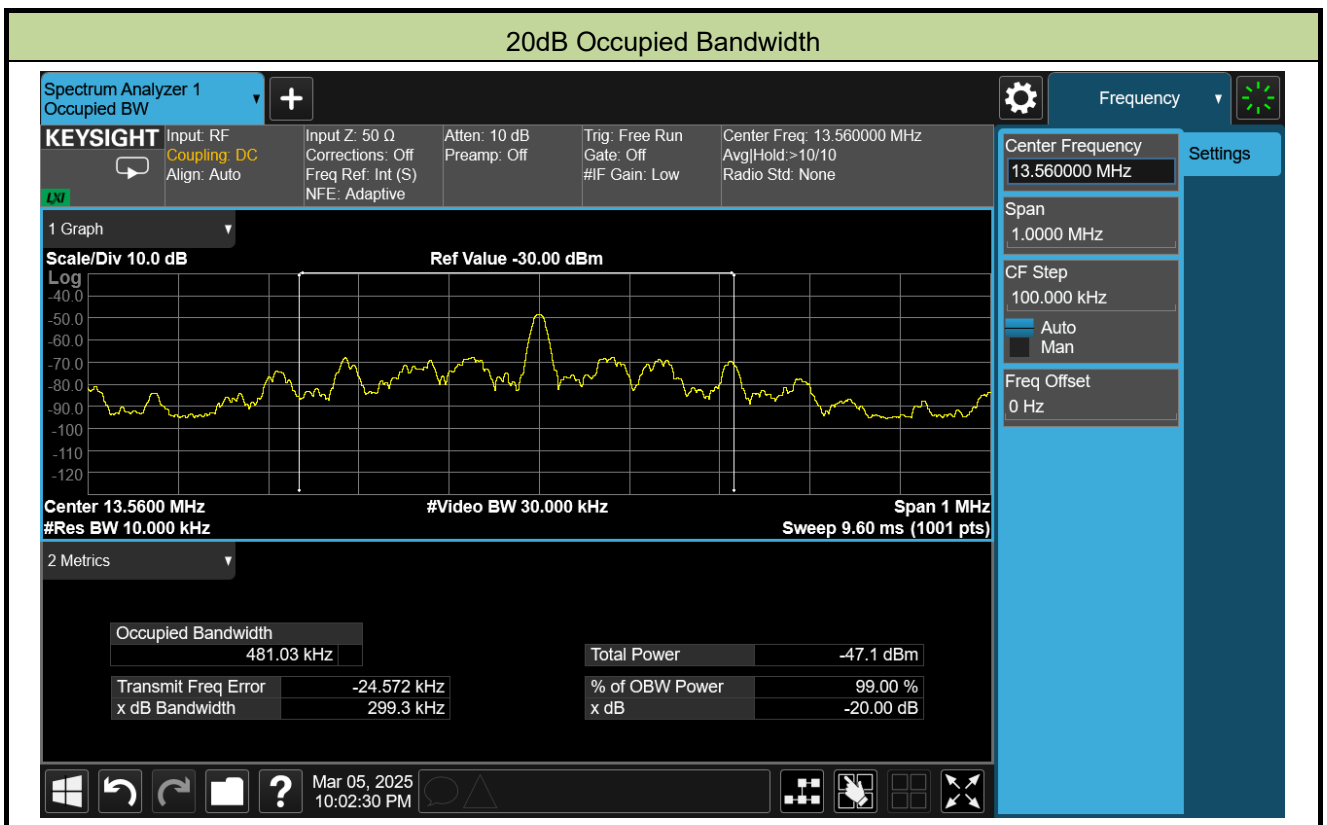
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Note 2: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

A.3 Occupied Bandwidth Test Result

Test Site	WZ-AC2	Test Date	2025-03-05
Test Engineer	Lynn Yang	Test Mode	Mode 1

Frequency (MHz)	20dB Occupied Bandwidth (kHz)
13.56	299.3



A.4 Frequency Tolerance Test Result

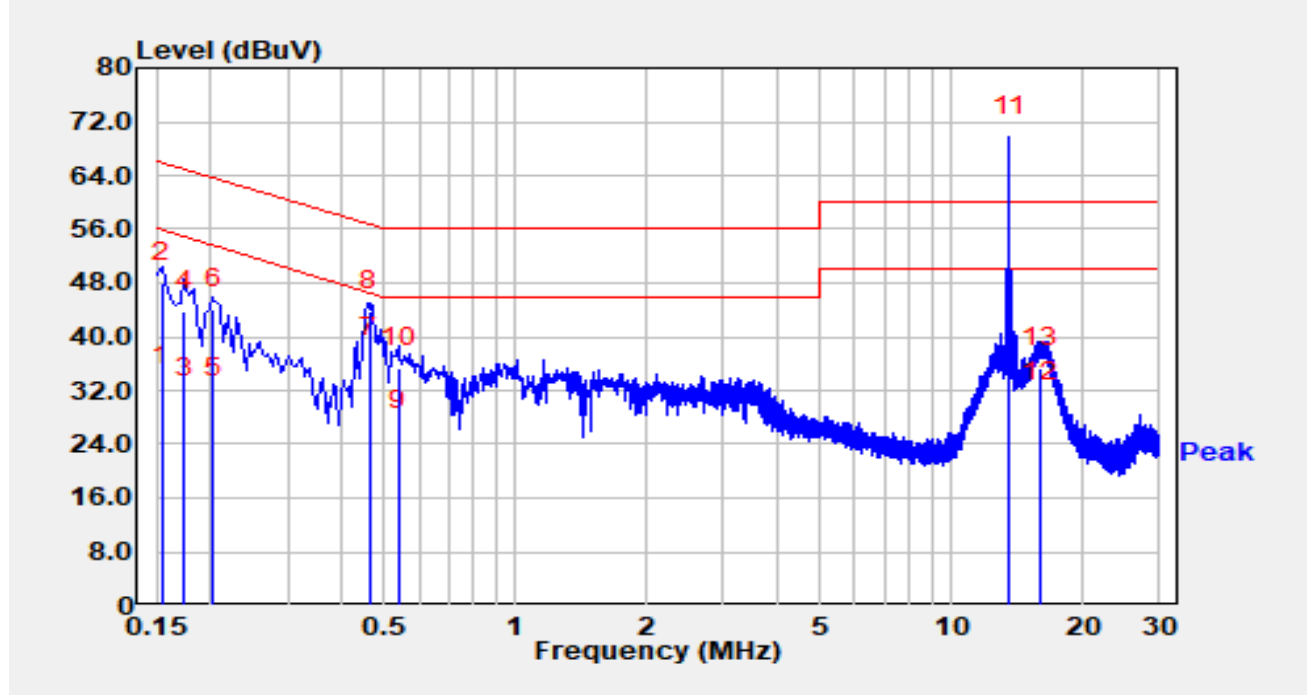
Test Site	WZ-TR3	Test Date	2025-03-02
Test Engineer	Lynn Yang	Test Mode	Mode 1

Reference Voltage: 9V			
Deviation Limit: +/- 0.01% = +/- 1356Hz			
Voltage (%)	Power Battery	Temp (°C)	Frequency Deviation (Hz)
100%	9V	-20	-63
		-10	-107
		0	-148
		+10	-166
		+20	-170
		+30	-153
		+40	-144
		+50	-149
85%	9V	+ 20	-168
115%	10.35V	+ 20	-153

Note: The customer claims that both low voltage and normal voltage are 9V.

A.5 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2025-02-26
Temperature	17.5 °C	Humidity	39.8 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line1
EUT	POS Terminal	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by NFC at 13.56MHz		

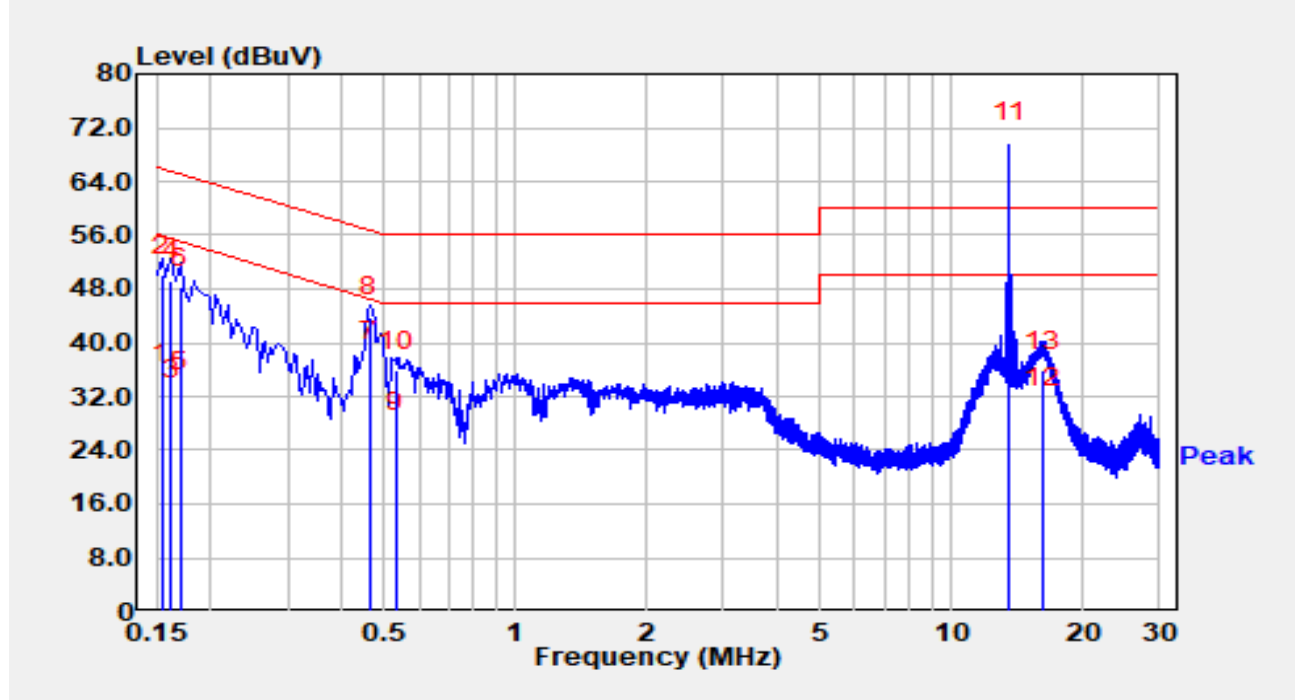


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.154	23.00	9.82	32.82	-22.96	55.78	Average
2		0.154	38.20	9.82	48.02	-17.76	65.78	QP
3		0.174	21.00	9.82	30.82	-23.95	54.77	Average
4		0.174	34.10	9.82	43.92	-20.85	64.77	QP
5		0.202	21.20	9.82	31.02	-22.51	53.53	Average
6		0.202	34.30	9.82	44.12	-19.41	63.53	QP
7	*	0.462	27.00	9.91	36.91	-9.75	46.66	Average
8		0.462	33.90	9.91	43.81	-12.85	56.66	QP
9		0.538	16.20	9.94	26.14	-19.86	46.00	Average
10		0.538	25.40	9.94	35.34	-20.66	56.00	QP
11		13.560	59.50	10.49	69.99	N/A	N/A	Peak
12		16.040	19.60	10.64	30.24	-19.76	50.00	Average
13		16.040	24.70	10.64	35.34	-24.66	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).
4. The point (11) is NFC fundamental frequency that is not evaluated in this item.

Site	WZ-SR2	Test Date	2025-02-26
Temperature	17.5 °C	Humidity	39.8 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	POS Terminal	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by NFC at 13.56MHz		

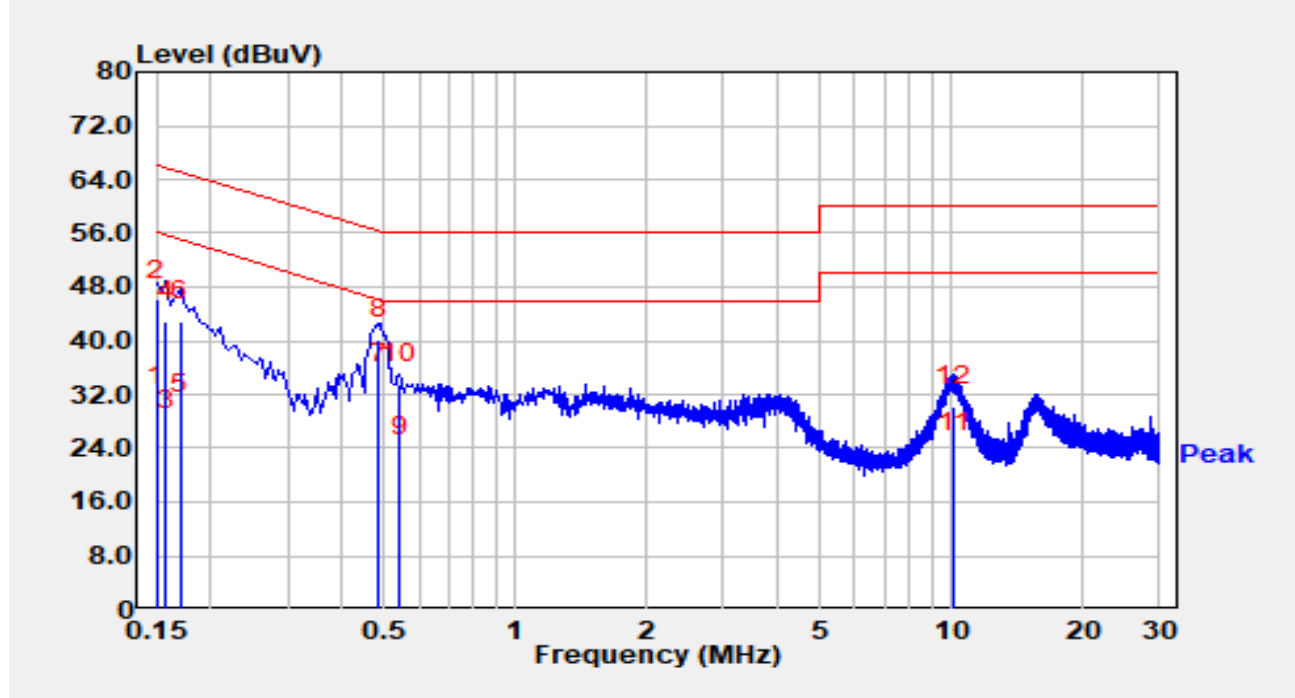


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.154	23.90	10.13	34.03	-21.75	55.78	Average
2		0.154	39.90	10.13	50.03	-15.75	65.78	QP
3		0.162	21.30	10.12	31.42	-23.94	55.36	Average
4		0.162	39.20	10.12	49.32	-16.04	65.36	QP
5		0.170	22.60	10.12	32.72	-22.24	54.96	Average
6		0.170	38.10	10.12	48.22	-16.74	64.96	QP
7	*	0.462	27.20	10.16	37.36	-9.30	46.66	Average
8		0.462	33.70	10.16	43.86	-12.80	56.66	QP
9		0.530	16.50	10.18	26.68	-19.32	46.00	Average
10		0.530	25.60	10.18	35.78	-20.22	56.00	QP
11		13.560	59.10	10.76	69.86	N/A	N/A	Peak
12		16.230	19.40	10.92	30.32	-19.68	50.00	Average
13		16.230	24.90	10.92	35.82	-24.18	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).
4. The point (11) is NFC fundamental frequency that is not evaluated in this item.

Site	WZ-SR2	Test Date	2025-03-05
Temperature	19.5 °C	Humidity	43.2 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line1
EUT	POS Terminal	Test Voltage	AC 120V/60Hz
Test Mode	Remove NFC Antenna		



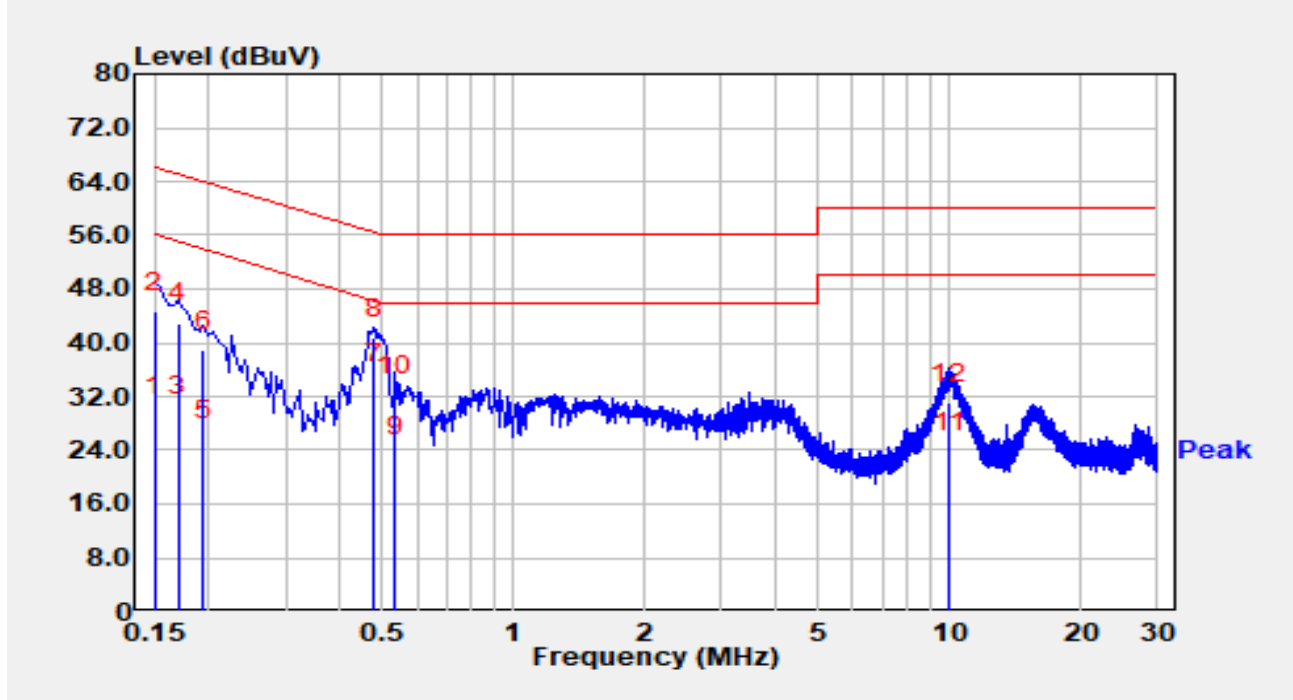
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	20.60	9.82	30.42	-25.58	56.00	Average
2		0.150	36.30	9.82	46.12	-19.88	66.00	QP
3		0.158	16.80	9.82	26.62	-28.95	55.57	Average
4		0.158	33.10	9.82	42.92	-22.65	65.57	QP
5		0.170	19.30	9.82	29.12	-25.84	54.96	Average
6		0.170	33.20	9.82	43.02	-21.94	64.96	QP
7	*	0.486	23.60	9.92	33.52	-12.71	46.24	Average
8		0.486	30.30	9.92	40.22	-16.01	56.24	QP
9		0.542	12.90	9.94	22.84	-23.16	46.00	Average
10		0.542	23.60	9.94	33.54	-22.46	56.00	QP
11		10.150	13.10	10.37	23.47	-26.53	50.00	Average
12		10.150	19.90	10.37	30.27	-29.73	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.

2. $C.F (dB) = LISN \text{ Factor } (dB) + \text{Cable Loss } (dB)$.
3. $\text{Measurement } (dB\mu V) = \text{Reading } (dB\mu V) + C.F (dB)$.

Site	WZ-SR2	Test Date	2025-03-05
Temperature	19.5 °C	Humidity	43.2 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	POS Terminal	Test Voltage	AC 120V/60Hz
Test Mode	Remove NFC Antenna		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	19.00	10.13	29.13	-26.87	56.00	Average
2		0.150	34.40	10.13	44.53	-21.47	66.00	QP
3		0.170	18.90	10.12	29.02	-25.94	54.96	Average
4		0.170	32.80	10.12	42.92	-22.04	64.96	QP
5		0.194	15.50	10.11	25.61	-28.26	53.86	Average
6		0.194	28.80	10.11	38.91	-24.96	63.86	QP
7	*	0.478	23.70	10.16	33.86	-12.51	46.37	Average
8		0.478	30.50	10.16	40.66	-15.71	56.37	QP
9		0.534	12.80	10.18	22.98	-23.02	46.00	Average
10		0.534	22.10	10.18	32.28	-23.72	56.00	QP
11		10.030	13.20	10.62	23.82	-26.18	50.00	Average
12		10.030	20.40	10.62	31.02	-28.98	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.

2. $C.F (dB) = LISN \text{ Factor } (dB) + \text{Cable Loss } (dB)$.
3. $\text{Measurement } (dB\mu V) = \text{Reading } (dB\mu V) + C.F (dB)$.

Appendix B - Test Setup Photograph

Refer to “ R25S1016023-UT” file.

Appendix C - EUT Photograph

Refer to “ R25S1016023-UE” file.

The End
