



RF MEASUREMENT REPORT

FCC ID: 2ATHQZL2

Applicant: Zoleo Incorporated

Product: ZOLEO Satellite Communicator

Model No.: ZL1500

Brand Name: ZOLEO

FCC Classification: Licensed Non-Broadcast Transmitter Worn on Body (TNT)

FCC Rule Part(s): FCC CFR 47 Part 2, FCC CFR 47 Part 25

Result: Complies

Received Date: 2026-03-31

Test Date: 2026-05-06 ~ 2026-05-21

Reviewed By:

Denise Zhou

Denise Zhou

Approved By:

Robin Wu

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. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific 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
R26S1064035-U202	V01	Initial Report	2026-05-29	Valid

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1. General Information

1.1. Applicant

Zoleo Incorporated
7A Taymall Avenue, Toronto, Ontario M8Z 3Y8, Canada

1.2. Manufacturer

Zoleo Incorporated
7A Taymall Avenue, Toronto, Ontario M8Z 3Y8, Canada

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
☐	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 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	ZOLEO Satellite Communicator
Model No.	ZL1500
Serial No. (S/N)	86EZL13EE (Conducted) CFDZL1CE9 (Radiated)
Bluetooth Specification	BT Single Mode, BLE Only
GNSS Specification	GPS, Galileo
Satellite Specification	1616 ~ 1626.5 MHz
Operating Temperature	-20 ~ 55 °C
Power Type	By Rechargeable Lithium Battery
Antenna Specification	Refer to Section 1.5
Equipment Category	MESs
Accessory(ies)	
Rechargeable Lithium Battery	3.7 V, 1.48 Ah, 5.4 Wh
Remark: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Product Specification under Test

Frequency Range	1616 ~ 1626.5 MHz
Test Frequency	Low Channel 1: 1616.020833 MHz Mid Channel 121: 1621.020833 MHz High Channel 240: 1625.979167 MHz
Channel Spacing	41.667 kHz
Channel Number	240
Duplexing Method	TDD (Time Domain Duplex)
Antenna Type	Ceramic Antenna
Antenna Gain	5.1 dBi
Authorized Bandwidth	41.667 kHz

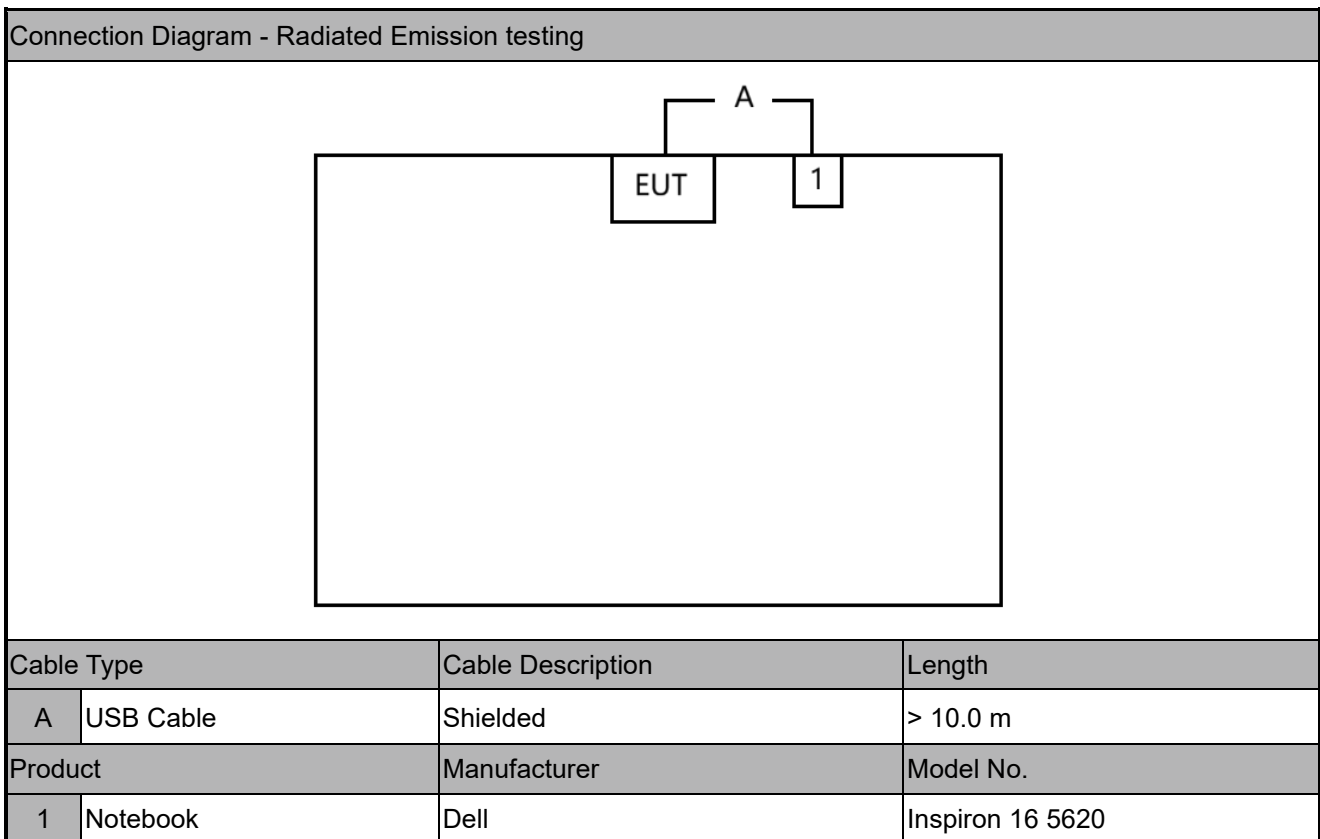
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at 1616.020833 MHz
Mode 2: Transmit at 1621.020833 MHz
Mode 3: Transmit at 1625.979167 MHz
Mode 4: Carrier-off

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.26: 2015 was used to reference the appropriate EUT setup for radiated emissions testing.



2.3. Test Software

The test utility software used during testing was "Tera term".

2.4. Applied Standards

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

- FCC Part 2
- FCC Part 25
- ANSI C63.26-2015

2.5. Test Environment Condition

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

3. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE07111	1 year	2027-03-05	WJ-AC2
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07147	1 year	2026-09-28	WJ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2026-11-18	WJ-AC2
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07097	1 year	2027-04-14	WJ-AC2
Horn Antenna	RFSPIN	DRH18-E	MRTSUE07105	1 year	2026-05-12	WJ-AC2
					2027-05-11	
Preamplifier	EMCI	EMC118A45SE	MRTSUE07102	1 year	2027-04-08	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2026-06-16	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11332	1 year	2026-06-05	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2026-05-12	WJ-AC2
					2027-05-10	
High and low temperature-humidity test chamber	GWS	EL-01JA	MRTSUE07114	1 year	2026-05-17	WJ-TR1
					2027-05-10	
Thermohygrometer	testo	608-H1	MRTSUE11403	1 year	2026-11-30	WJ-TR1
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07148	1 year	2027-04-14	WJ-SR9/WJ-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE07142	1 year	2027-03-12	WJ-SR9
Thermohygrometer	testo	608-H1	MRTSUE11335	1 year	2026-06-16	WJ-SR9
Shielding Room	TDK	WJ-SR9	MRTSUE07131	N/A	N/A	WJ-SR9
Fixed Attenuator	MVE	MVE2213	MRTSUE07319	1 year	2026-06-24	WJ-SR9

Software	Version	Function
e3	230711	RE & CE
CONTROLLER CO3000	V 1.03.02	RE Antenna & Turntable
Agilent Power Panel	V 3.9	Power

4. Decision Rules and Measurement Uncertainty

4.1. 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.)

4.2. 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 $k = 2$.

Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9 kHz ~ 30 MHz: 2.56 dB
Coplanar:	9 kHz ~ 30 MHz: 2.55 dB
Horizontal:	30 MHz ~ 200 MHz: 3.48 dB
	200 MHz ~ 1 GHz: 4.17 dB
	1 GHz ~ 40 GHz: 5.01 dB
Vertical:	30 MHz ~ 200 MHz: 4.09 dB
	200 MHz ~ 1 GHz: 5.30 dB
	1 GHz ~ 40 GHz: 4.85 dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.9 dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.4 dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.9 dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.6%	

5. Test Result

5.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
2.1049	Occupied Bandwidth	Conducted	Pass
2.1046(a), 25.204(a)	Power Spectral Density & Output Power		Pass
2.1055, 25.202(d)	Frequency Tolerance		Pass
2.1051, 25.202(f) 25.216 (c) & (f) & (i)	Emission Limitations (Conducted Emissions)		Pass
2.1053, 25.202(f) 25.216 (c) & (f) & (i)	Emission Limitations (Radiated Emissions)	Radiated	Pass

Remark:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

5.2. Occupied Bandwidth

5.2.1. Test Limit

N/A

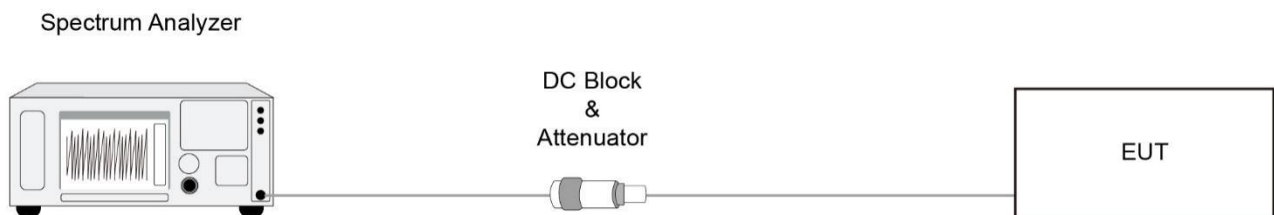
5.2.2. Test Procedure used

ANSI C63.26-2015 - Section 5.4.4

5.2.3. Test Setting

1. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient)
2. Set RBW = 1% to 5% of the OBW
3. VBW $\geq 3 \times \text{RBW}$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace was allowed to stabilize

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Power Spectral Density & Output Power

5.3.1. Test Limit

In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph(c) of this section:

+ 40 dBW in any 4 kHz band for $\theta \leq 0^\circ$

+ 40 + 3 θ dBW in any 4 kHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

5.3.2. Test Procedure used

ANSI C63.26-2015 - Section 5.2.4.5 & 5.2.4.4.1

ANSI C63.26-2015 - Section 5.2.4.2

5.3.3. Test Setting

Power Spectral Density Measurement using spectrum analyzer

1. Set span to 2 to 3 times the OBW

2. Set RBW = 1% to 5% of the OBW

(RBW shall set to the reference bandwidth specified by the applicable regulatory requirement, so set

RBW = 5.1 kHz herein for measurement)

3. Set VBW $\geq 3 \times$ RBW

4. Detector = power averaging (RMS)

5. Trace mode = Max Hold

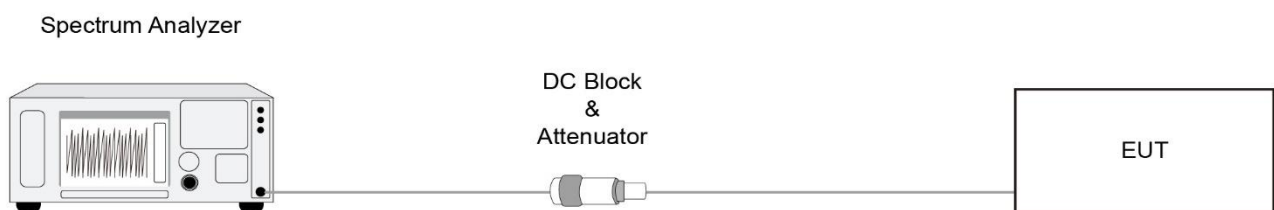
6. Trace was allowed to stabilize

Average Power Measurement

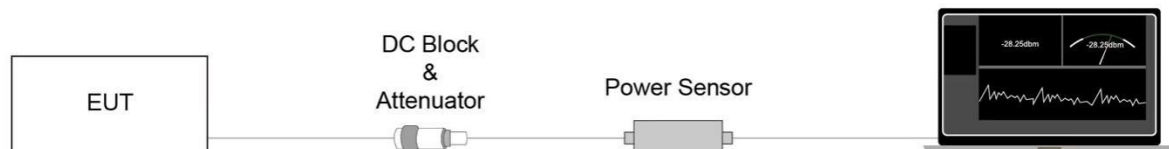
Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

5.3.4. Test Setup

Power Spectral Density



Average Power



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Frequency Tolerance

5.4.1. Test Limit

The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

5.4.2. Test Procedure used

ANSI C63.26-2015 - Section 5.6.3 & 5.6.4 & 5.6.5

5.4.3. Test Setting

The EUT was set to transmit a modulated carrier. The EUT was connected to a spectrum analyzer via a cable and attenuator.

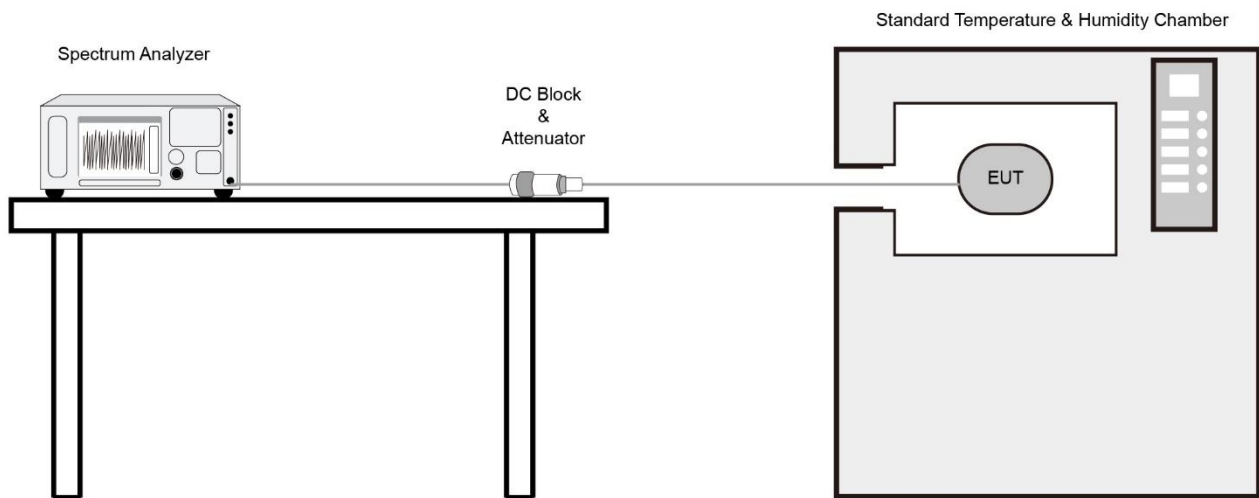
Adjust the temperature and supply voltage follow below:

- a) At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, and
- b) At +20 °C temperature and $\pm 15\%$ supply voltage variations. If a product is specified to operate over a range of input voltage then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits. Mark the highest point and record it.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy).

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Emission Limitations (Conducted Emissions)

5.5.1. Test Limit

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule:

- (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;
- (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;
- (3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts.

Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service

The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 milliseconds active transmission interval, in the 1559-1605 MHz band.

Mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies in the 1610 - 1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -10 dBW/MHz at 1610 MHz.

The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

$$\text{EIRP (dBm)} = \text{EIRP (dBW)} + 30.$$

5.5.2. Test Procedure used

ANSI C63.26-2015 - Section 5.7

5.5.3. Test Setting

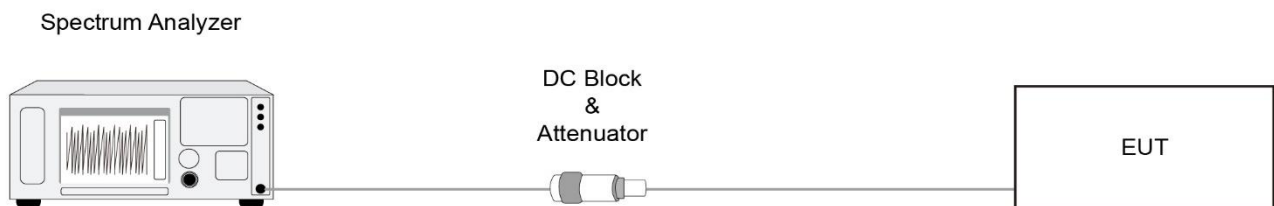
Spurious Emission - In-Band Emission & Out-of-Band Emission Measurement

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Set RBW to the reference bandwidth specified by the applicable requirement.
3. $VBW \geq 3 \times RBW$
4. Detect = power averaging (RMS)
5. sweep time = Auto couple
6. Trace mode = Max Hold
7. Trace was allowed to stabilize
8. $10 \times \log(4 \text{ kHz} / RBW)$ was added to the reference offset to correct the result relative to any 4 kHz band as per the requirement in 25.202 (f).

Spurious Emission - Part 25.216 (c) & (f)

1. RBW = 1 MHz
2. $VBW = 3 \times RBW$
3. Detector = power averaging (RMS)
4. Sweep time > (number of points in sweep) $\times$ (transmitter period) (i.e., the transmit on-time + the off-time).
5. Trace mode = Trace average
6. Trace was allowed to stabilize

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. Emission Limitations (Radiated Emissions)

5.6.1. Test Limit

In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts.

For Out-Of-Band Emission, The emission limit equal to 82.3 dBμV/m.

$E \text{ (dBμV/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters.

Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service

The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 milliseconds active transmission interval, in the 1559-1605 MHz band.

Mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies in the 1610 - 1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -10 dBW/MHz at 1610 MHz.

The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

$\text{EIRP (dBm)} = \text{EIRP (dBW)} + 30$.

$E \text{ (dBμV/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance of 3 m in this report.

For example, $E = 55.2 \text{ dBμV/m}$ if EIRP is -70 dBW.

5.6.2. Test Procedure used

ANSI C63.26-2015 - Section 5.2.7 & 5.5

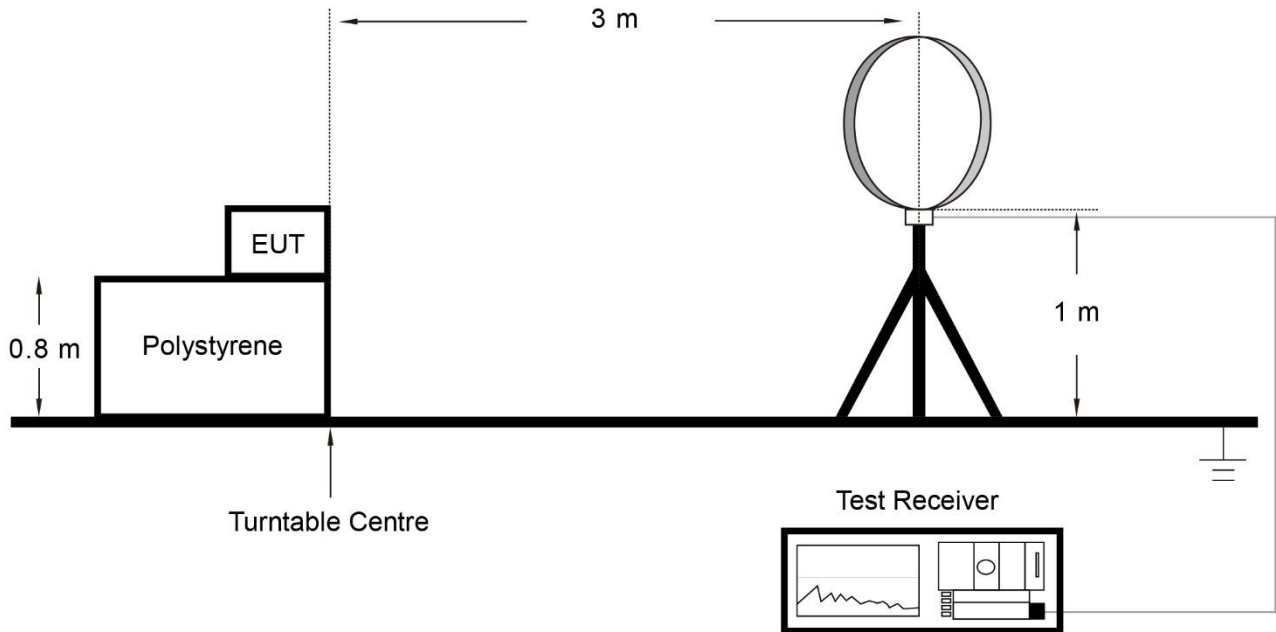
5.6.3. Test Setting

Spurious Emission - Out-of-Band Emission

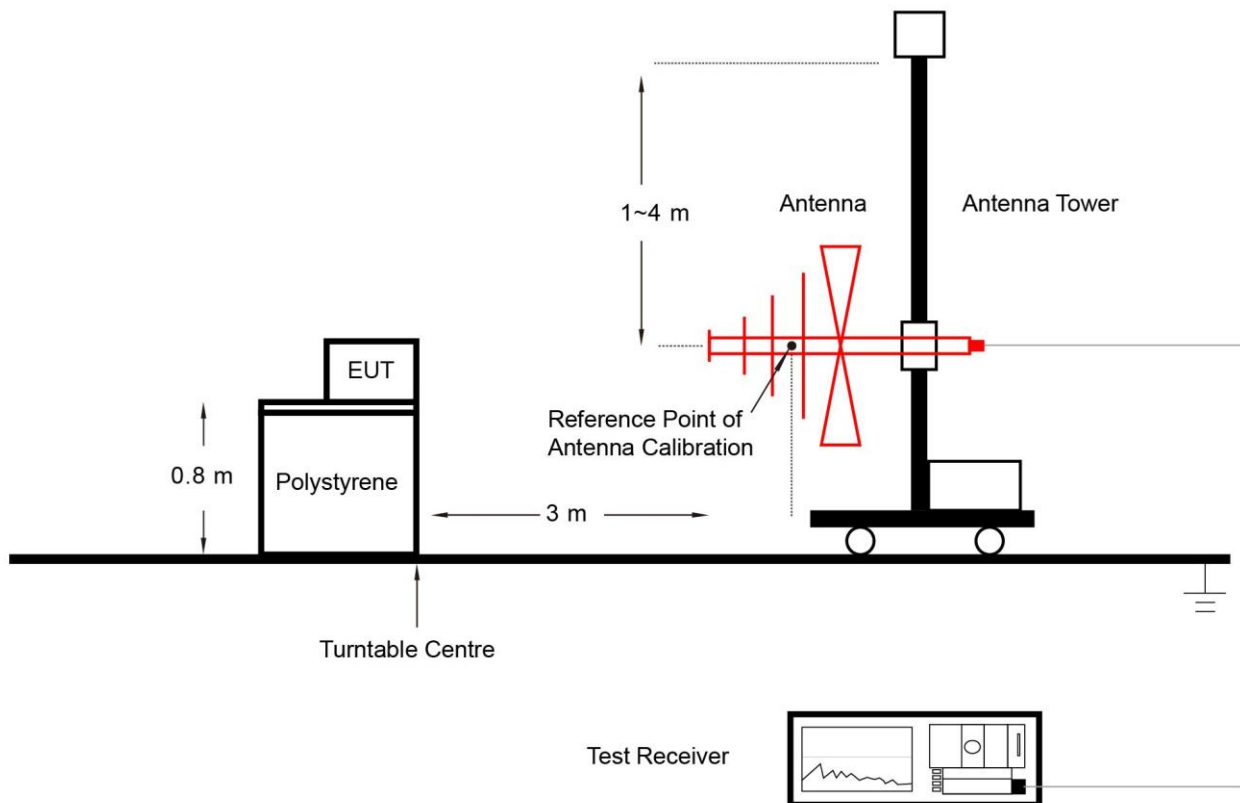
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. Set RBW to the reference bandwidth specified by the applicable requirement.
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

5.6.4. Test Setup

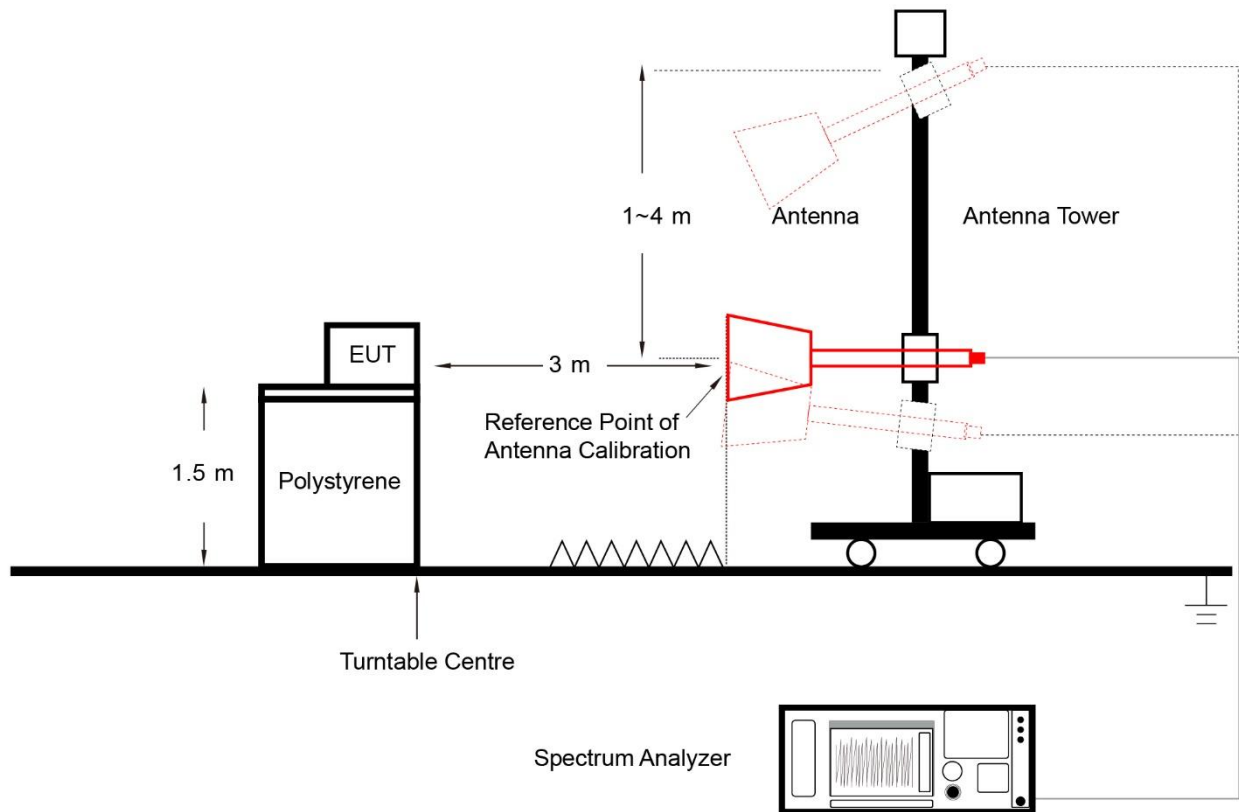
9 kHz ~ 30 MHz Test Setup



30 MHz ~ 1 GHz Test Setup



1 GHz ~ 17 GHz Test Setup



5.6.5. Test Result

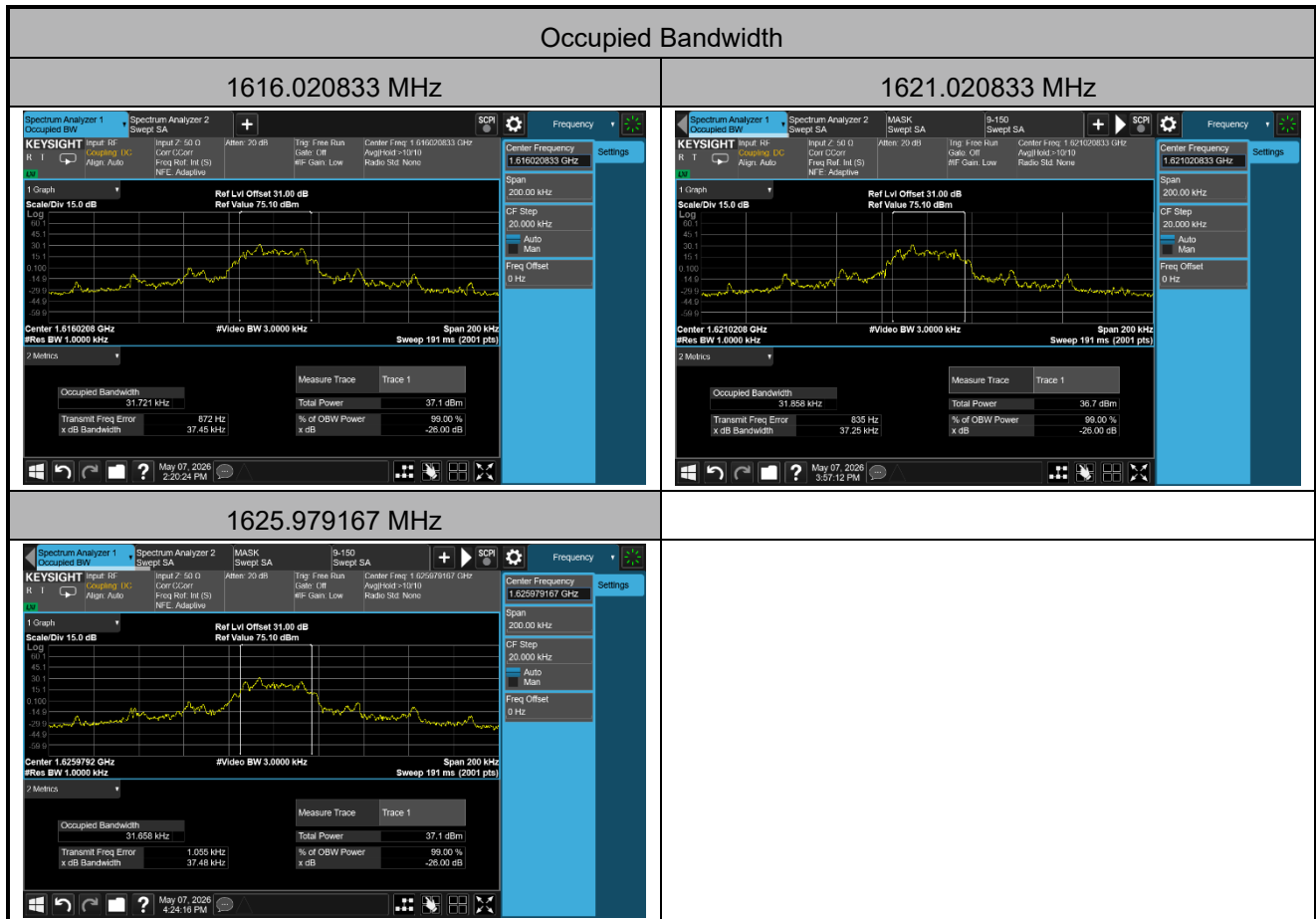
Refer to Appendix A.5.

Appendix A - Test Result

A.1 Occupied Bandwidth Test Result

Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-07		

Test Frequency (MHz)	99% Bandwidth (kHz)
1616.020833	31.721
1621.020833	31.858
1625.979167	31.658



A.2 Power Spectral Density & Output Power Test Result

Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-06		
Test Item	Output Power (Report Only)		

Freq. (MHz)	Output Power (dBm)
1616.020833	30.24
1621.020833	30.26
1625.979167	30.21

Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-07		
Test Item	Power Spectral Density		

Freq. (MHz)	AVPSD (dBm/5.1 kHz)	EIRP PSD (dBW/5.1 kHz)	Limit (dBW/4 kHz)
1616.020833	31.54	6.64	≤ 40
1621.020833	31.39	6.49	≤ 40
1625.979167	31.40	6.50	≤ 40

Note 1: $\text{EIRP PSD (dBW/5.1 kHz)} = \text{AVPSD (dBm/5.1 kHz)} + \text{Antenna Gain (dBi)} - 30$.

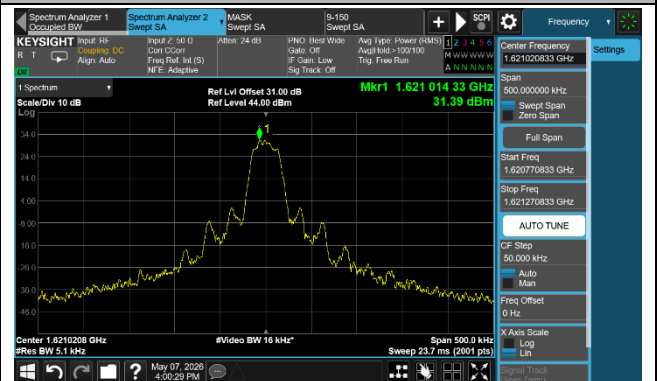
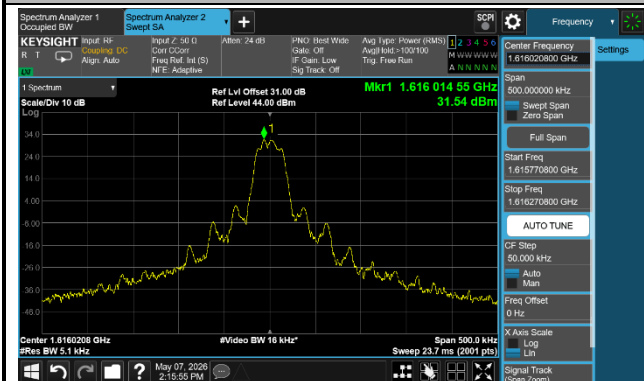
Note 2: The max EIRP PSD is less than the limit for $\theta \leq 0^\circ$ which limit is lower, so the requirement is complied.

Note 4: The RBW used for testing is 5.1 kHz and the measure level is complied with limit of 4 kHz.

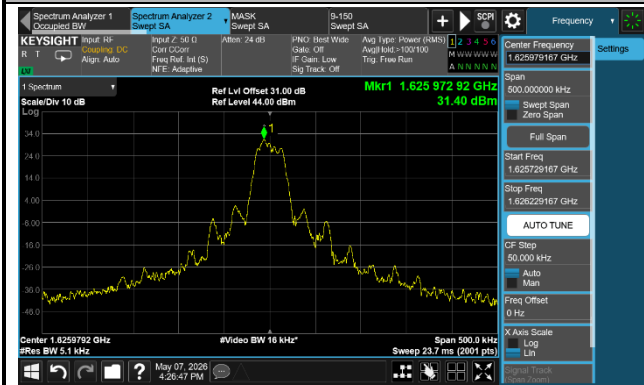
Power Spectral Density

1616.020833

1621.020833



1625.979167



A.3 Frequency Tolerance Test Result

Test Site	WJ-TR1	Test Engineer	Amy Zhang
Test Date	2026-05-21	Temperature	-30 ~ 50 °C

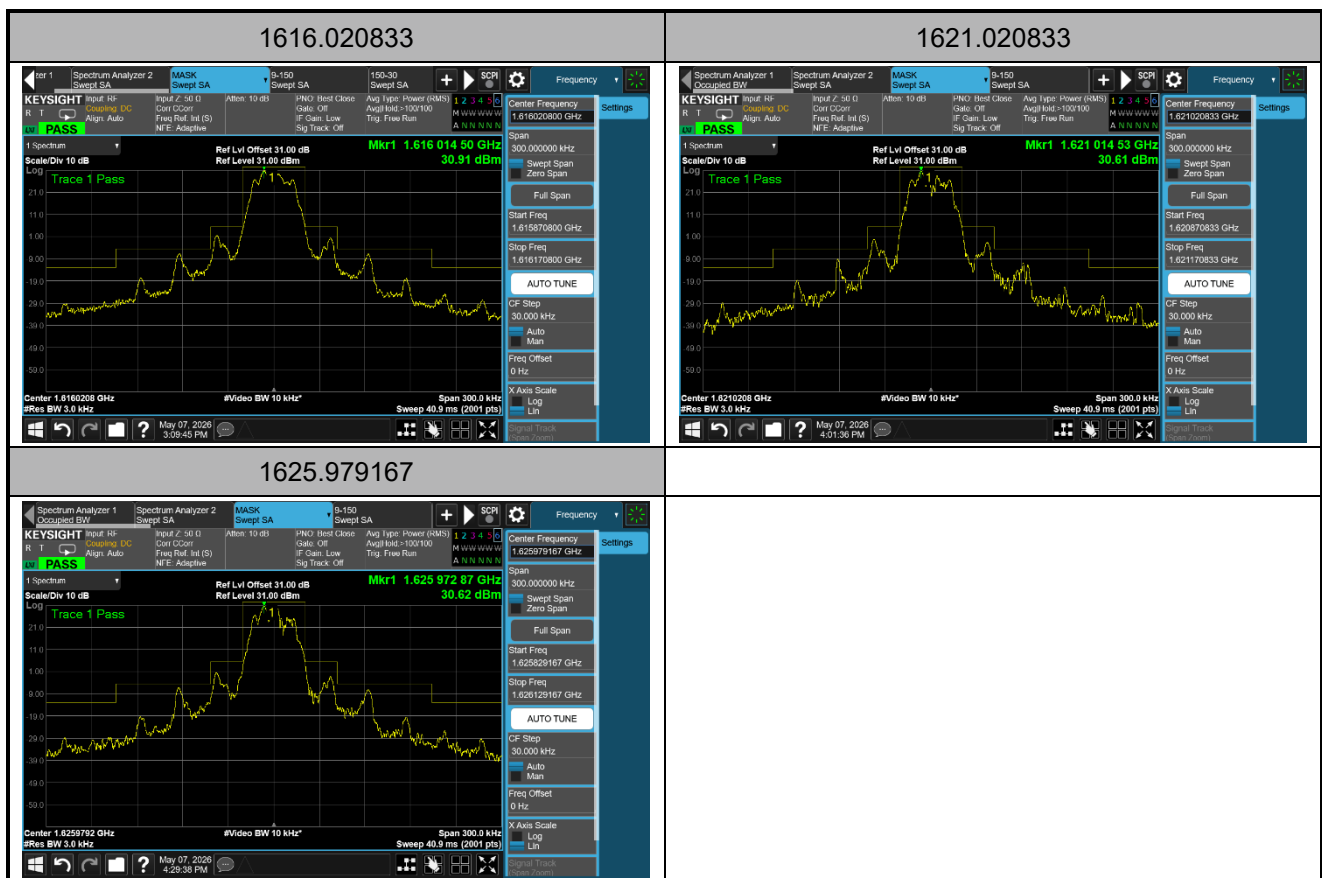
Test Freq. (MHz)	Voltage	Temp. (°C)	Freq. Error (Hz)	Freq. Tolerance (ppm)	Limit (ppm)	Result
1621.020833	3.7	+50	-1133	-0.70	-10 ~ +10	Pass
		+40	-833	-0.51	-10 ~ +10	Pass
		+30	-633	-0.39	-10 ~ +10	Pass
		+20	-433	-0.27	-10 ~ +10	Pass
		+10	-283	-0.17	-10 ~ +10	Pass
		0	417	0.26	-10 ~ +10	Pass
		-10	-633	-0.39	-10 ~ +10	Pass
		-20	67	0.04	-10 ~ +10	Pass
		-30	17	0.01	-10 ~ +10	Pass
	3.145	+20	117	0.07	-10 ~ +10	Pass
	4.255	+20	167	0.10	-10 ~ +10	Pass

Note: Frequency Tolerance (ppm) = [Freq. Error (MHz) / Test Frequency (MHz)] × 10⁶.

A.4 Emission Limitations (Conducted Emissions) Test Result

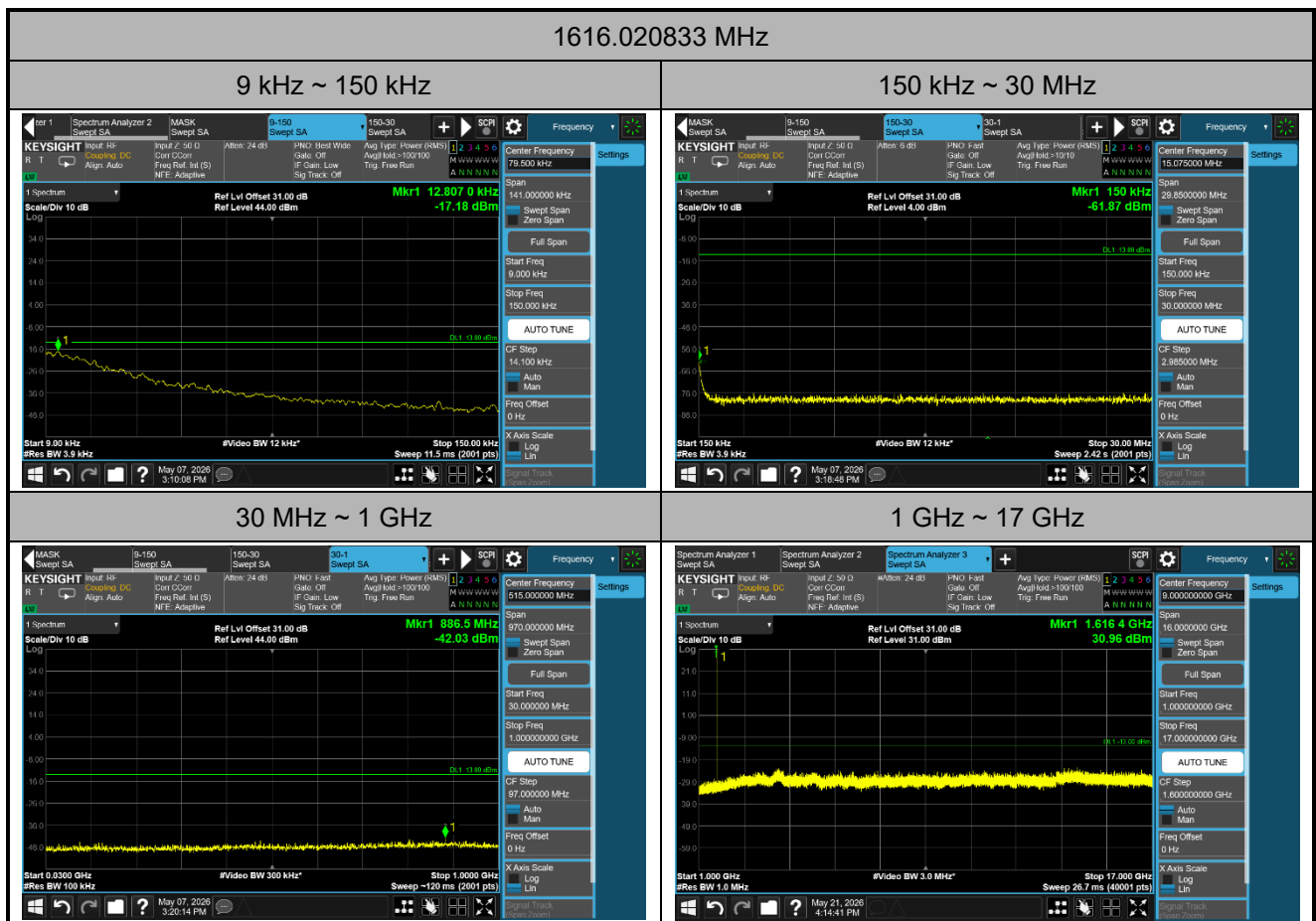
Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-07	Test Item	In-band Mask

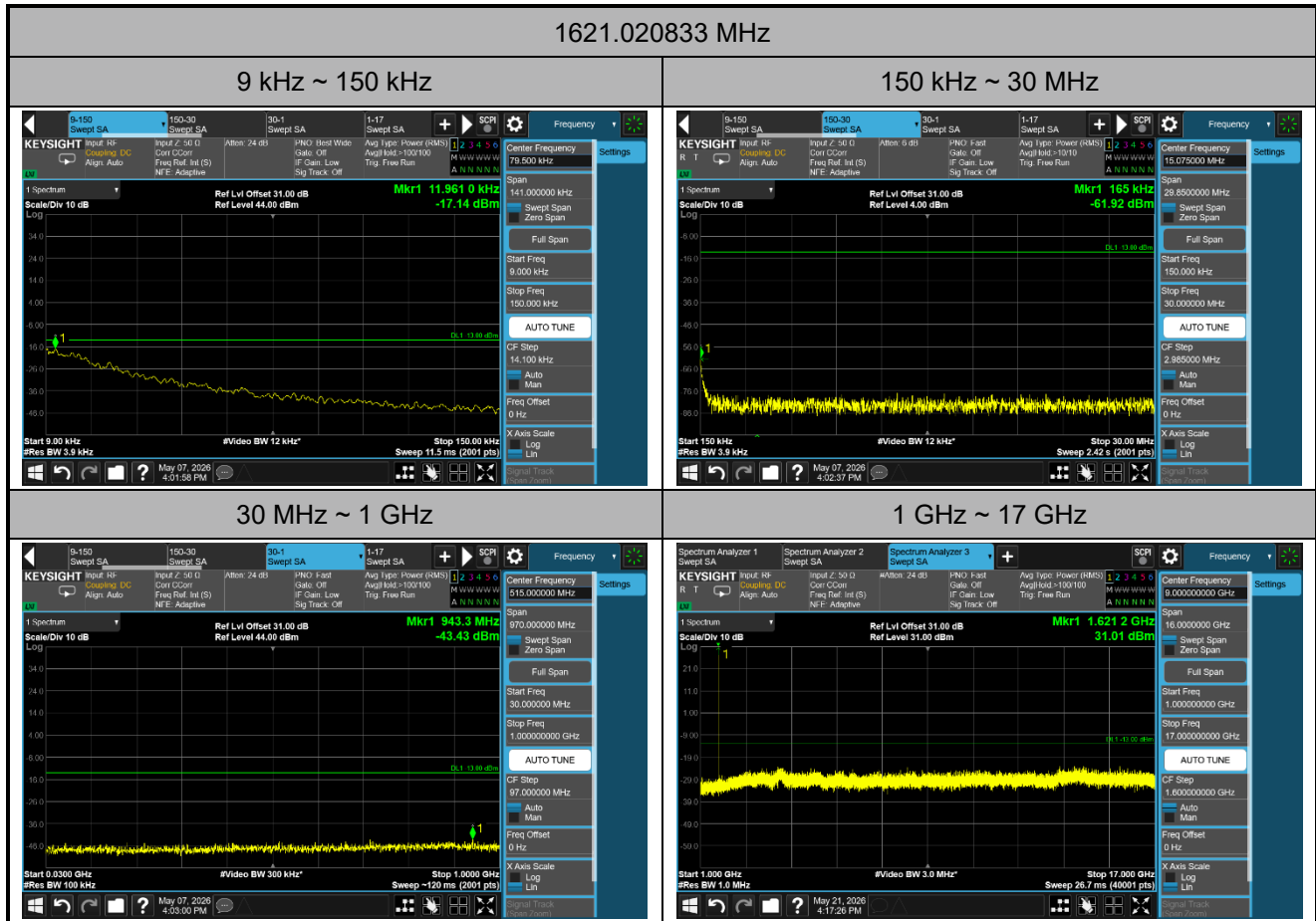
Freq. (MHz)	Test Result
1616.020833	Pass
1621.020833	Pass
1625.979167	Pass

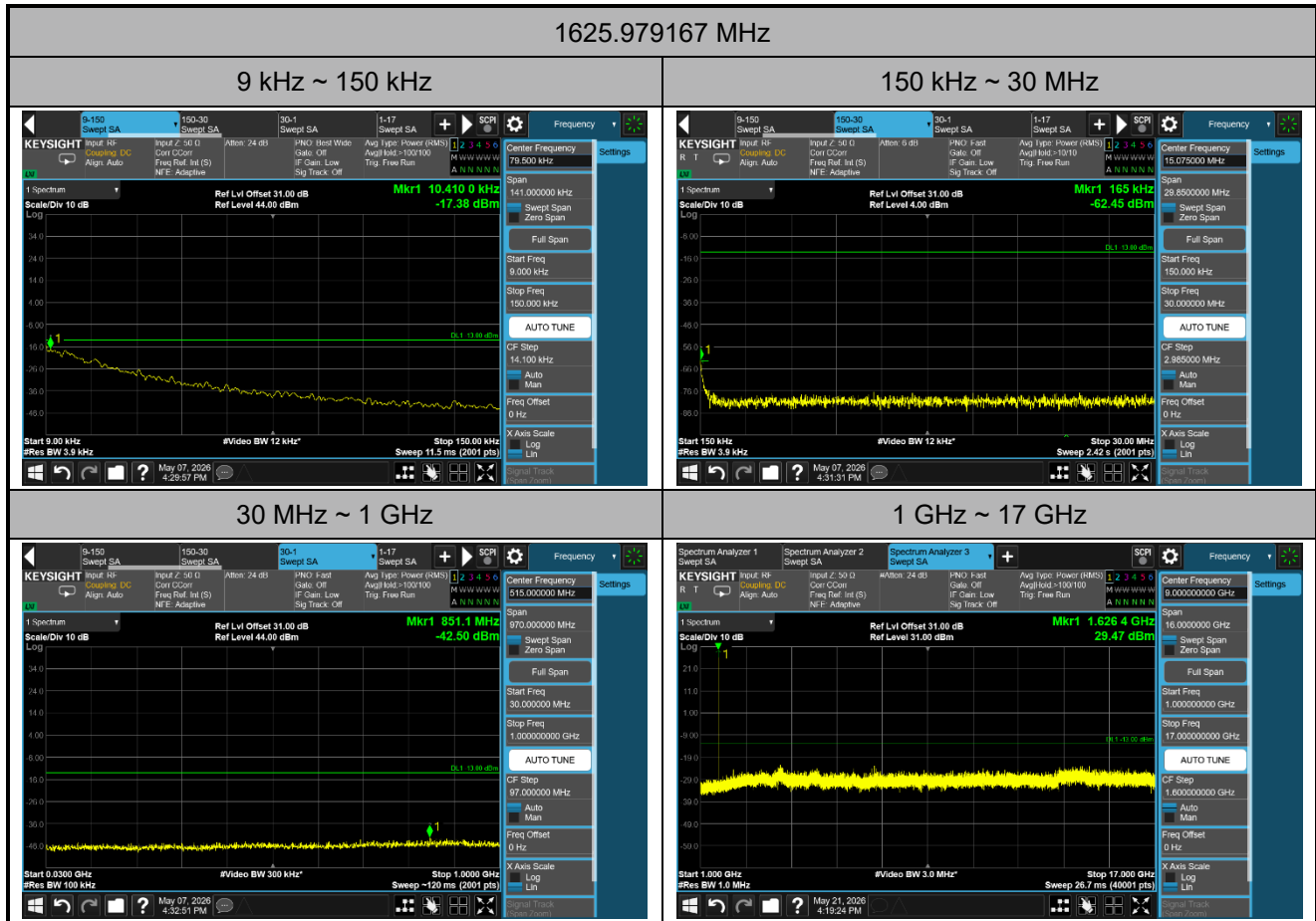


Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-07 ~ 2026-05-21	Test Item	Out-of-Band Emission

Freq. (MHz)	Test Result
1616.020833	Pass
1621.020833	Pass
1625.979167	Pass

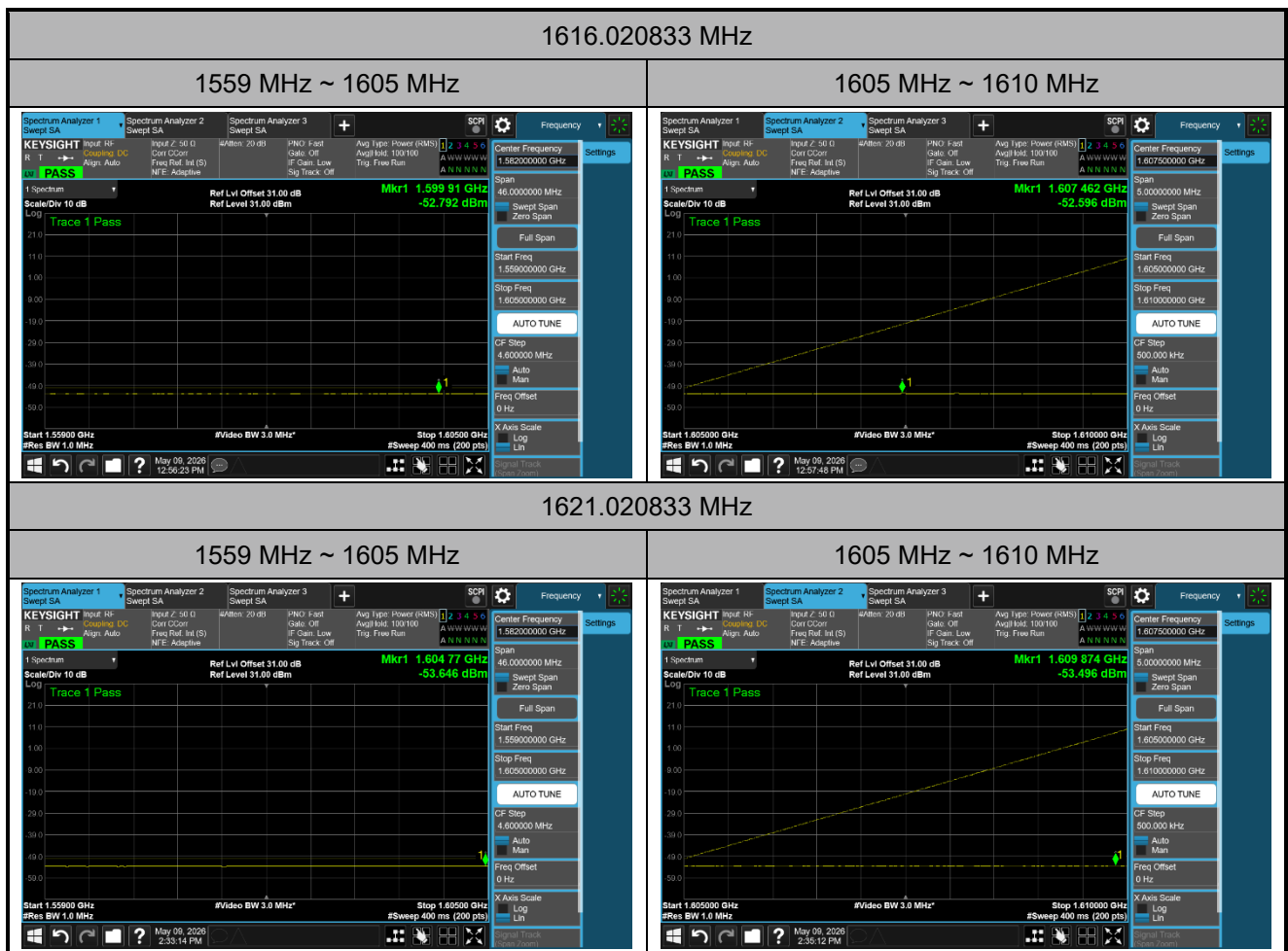


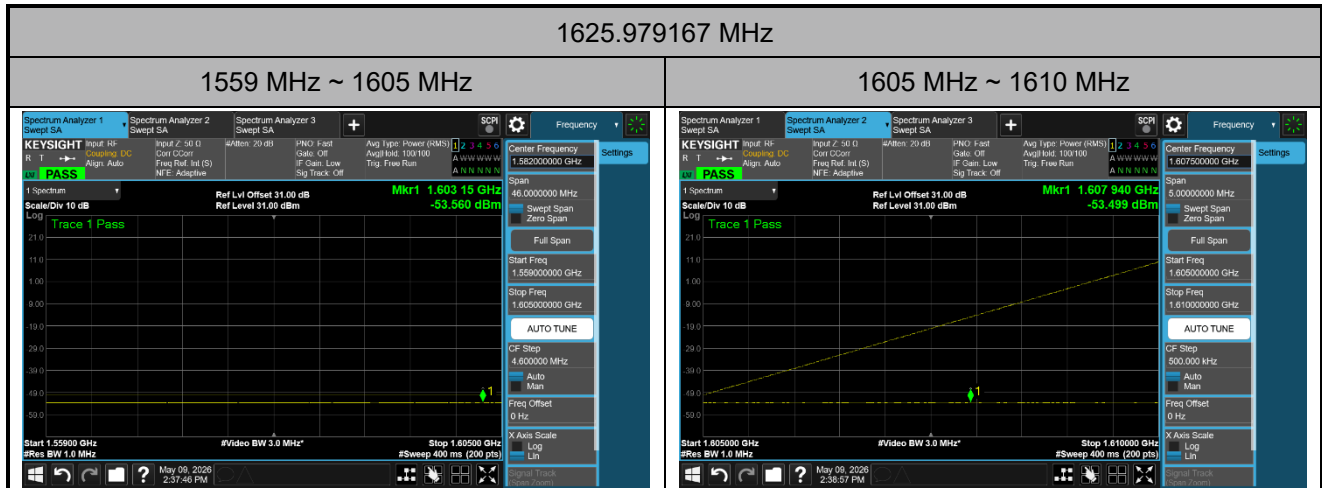




Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-09	Test Item	Additional Unwanted Emission - 1559 ~ 1610 MHz
Frequency Range	1559 ~ 1610 MHz		

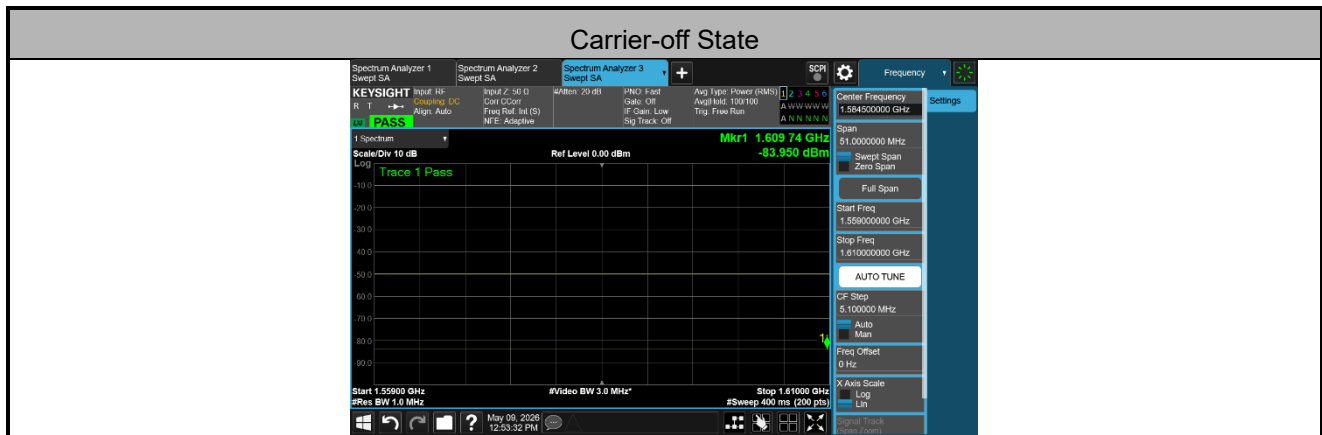
Freq. (MHz)	Test Result
1616.020833	Pass
1621.020833	Pass
1625.979167	Pass





Test Site	WJ-SR9	Test Engineer	Amy Zhang
Test Date	2026-05-09	Test Item	Carrier-off State Emission
Frequency Range	1559 ~ 1610 MHz		

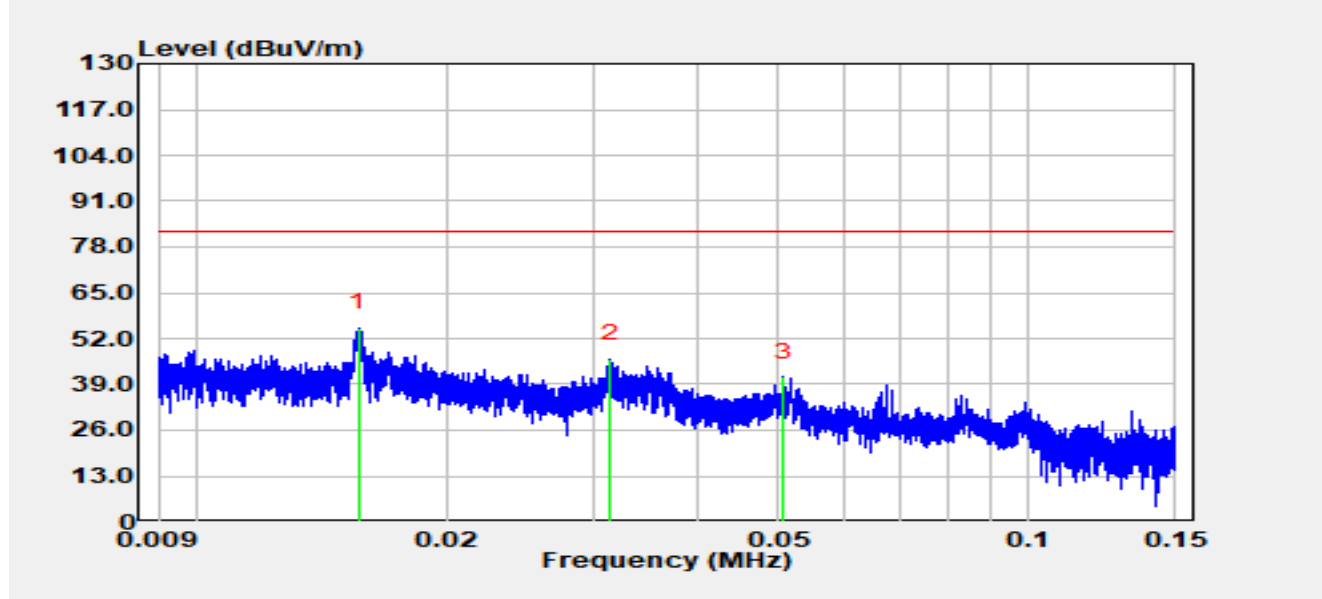
EUT State	Test Result
Carrier-off	Pass



A.5 Emission Limitations (Radiated Emissions) Test Result

The worst-case result of Radiated Emission for 9 kHz ~ 30 MHz:

Site	WJ-AC2	Test Date	2026-05-19
Temperature	24.1 °C	Humidity	51.9%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Coaxial
Test Mode	Transmit at 1621.020833 MHz		

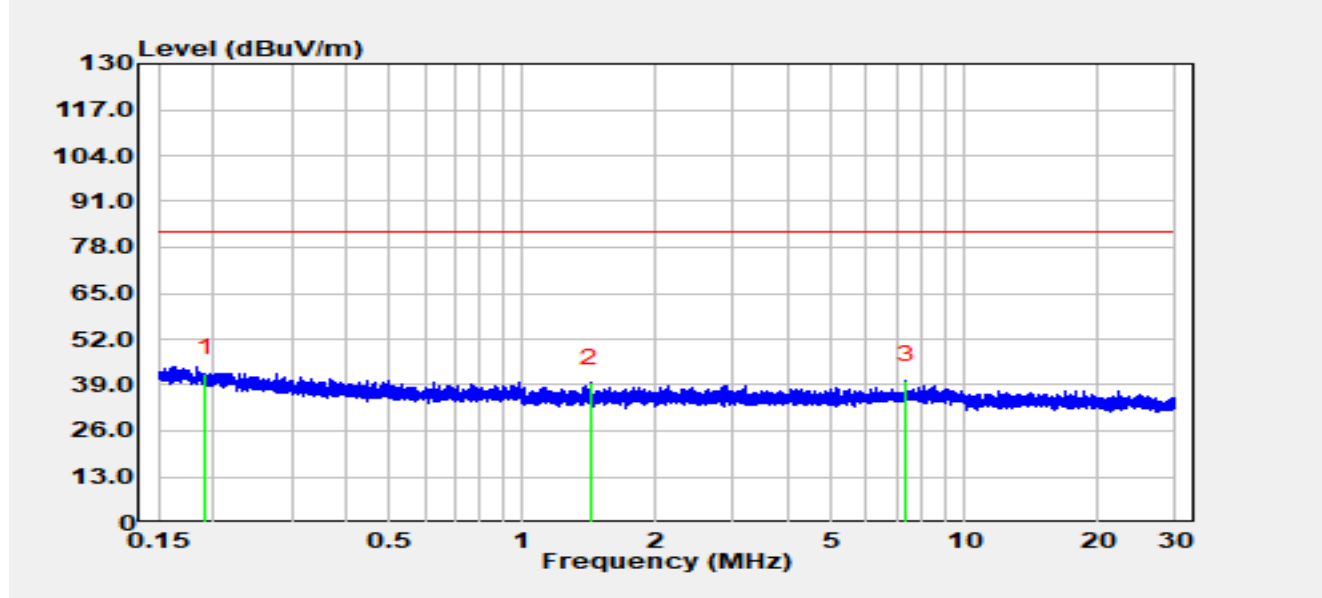


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.02	35.13	20.01	55.15	-27.15	82.30	Peak
2		0.03	26.70	19.55	46.25	-36.05	82.30	Peak
3		0.05	21.58	19.49	41.07	-41.23	82.30	Peak

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-19
Temperature	24.1 °C	Humidity	51.9%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Coaxial
Test Mode	Transmit at 1621.020833 MHz		

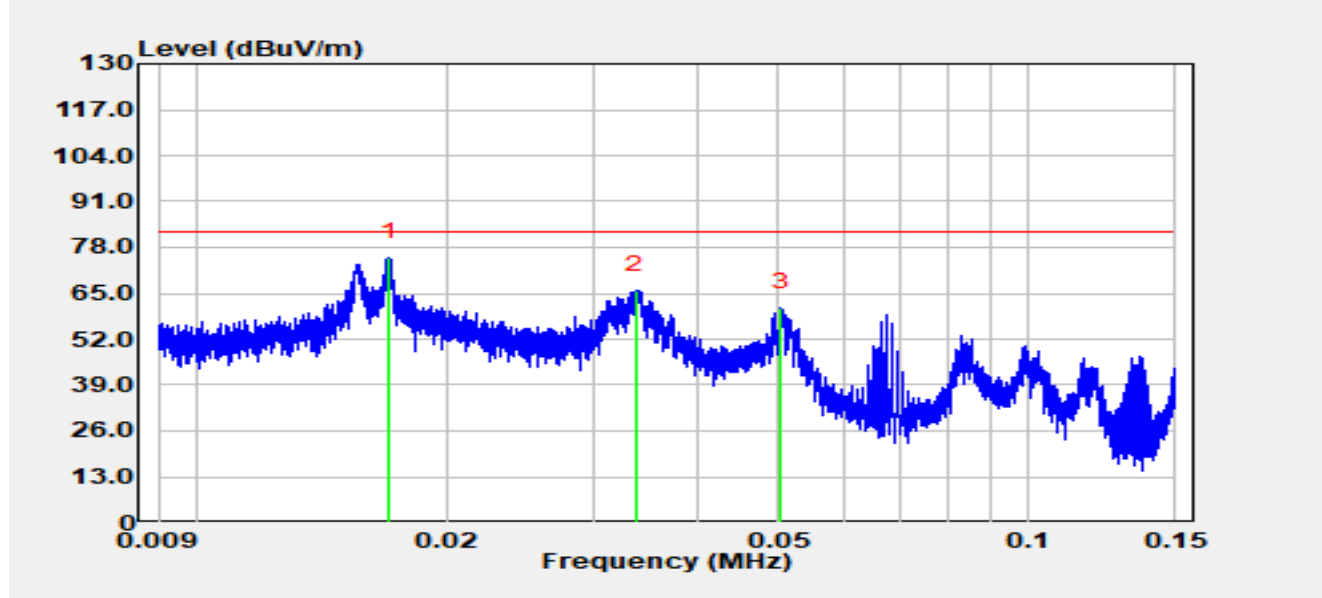


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.19	23.06	19.34	42.40	-39.90	82.30	Peak
2		1.42	20.37	19.33	39.69	-42.61	82.30	Peak
3		7.38	21.20	19.23	40.43	-41.87	82.30	Peak

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-19
Temperature	24.1 °C	Humidity	51.9%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Coplanar
Test Mode	Transmit at 1621.020833 MHz		

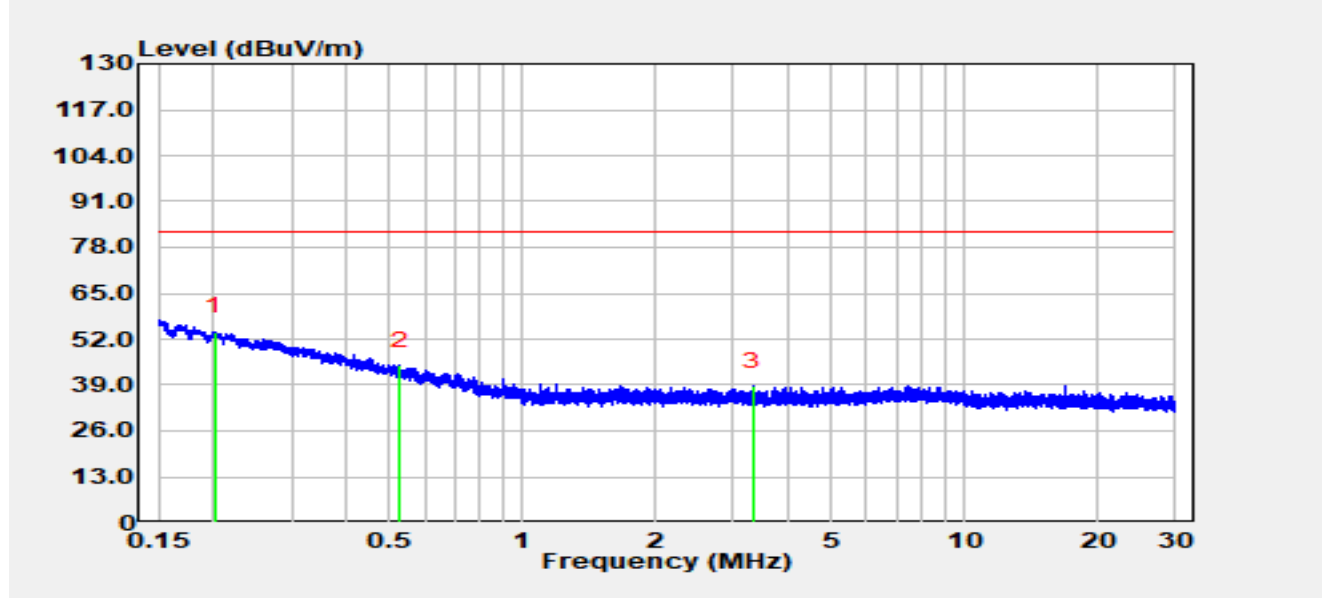


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.02	55.28	19.92	75.20	-7.10	82.30	Peak
2		0.03	46.22	19.54	65.76	-16.54	82.30	Peak
3		0.05	41.42	19.49	60.92	-21.38	82.30	Peak

Notes:

1. " *" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-19
Temperature	24.1 °C	Humidity	51.9%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Coplanar
Test Mode	Transmit at 1621.020833 MHz		



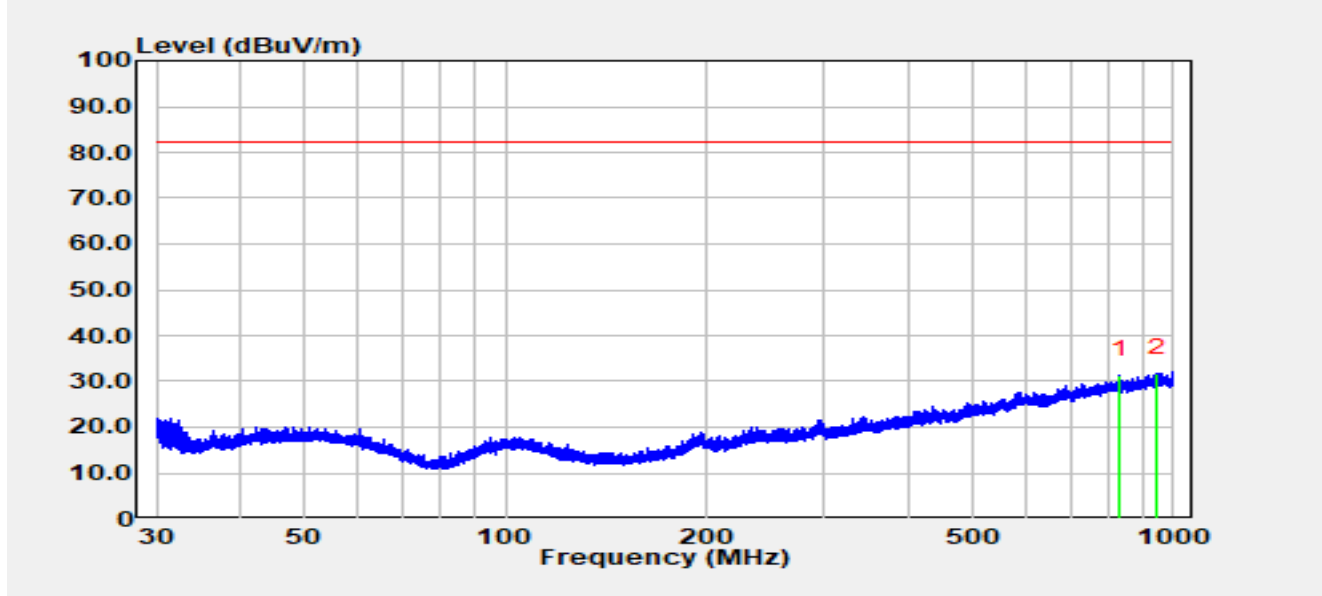
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.20	34.68	19.34	54.02	-28.28	82.30	Peak
2		0.53	25.10	19.31	44.41	-37.89	82.30	Peak
3		3.32	19.33	19.36	38.70	-43.60	82.30	Peak

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The worst-case result of Radiated Emission for 30 MHz ~ 1 GHz:

Site	WJ-AC2	Test Date	2026-05-15
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit at 1621.020833 MHz		

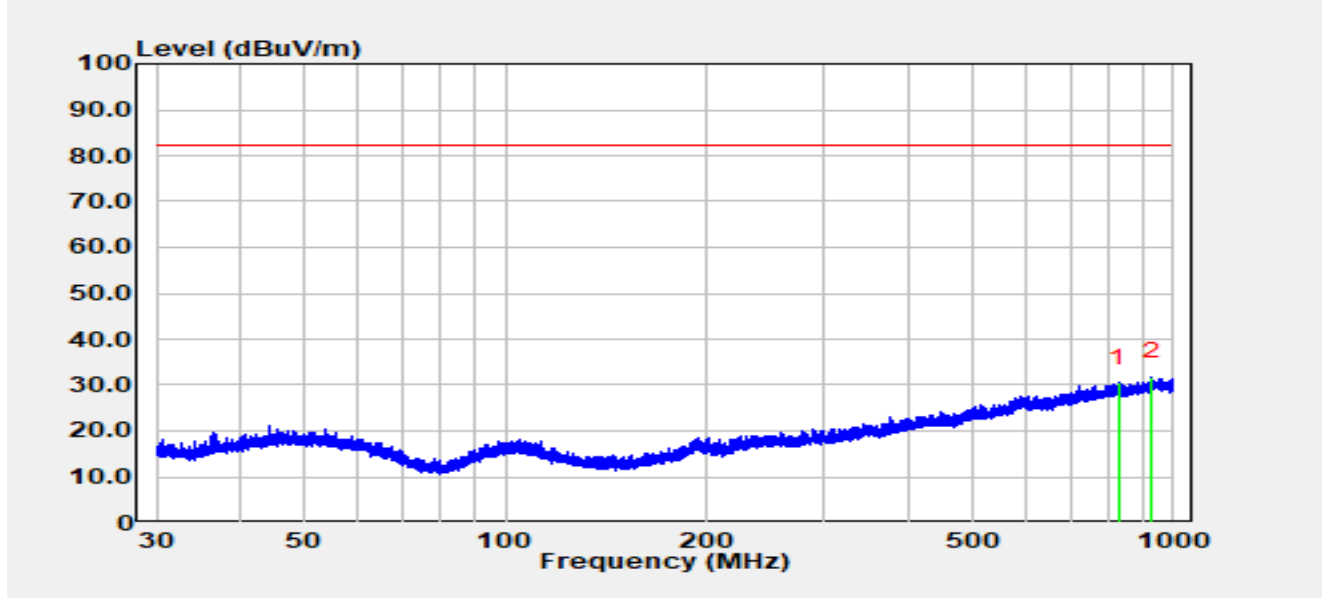


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		831.27	2.25	29.08	31.33	-50.97	82.30	Peak
2	*	945.44	1.72	30.05	31.77	-50.53	82.30	Peak

Notes:

- " * " indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-15
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit at 1621.020833 MHz		



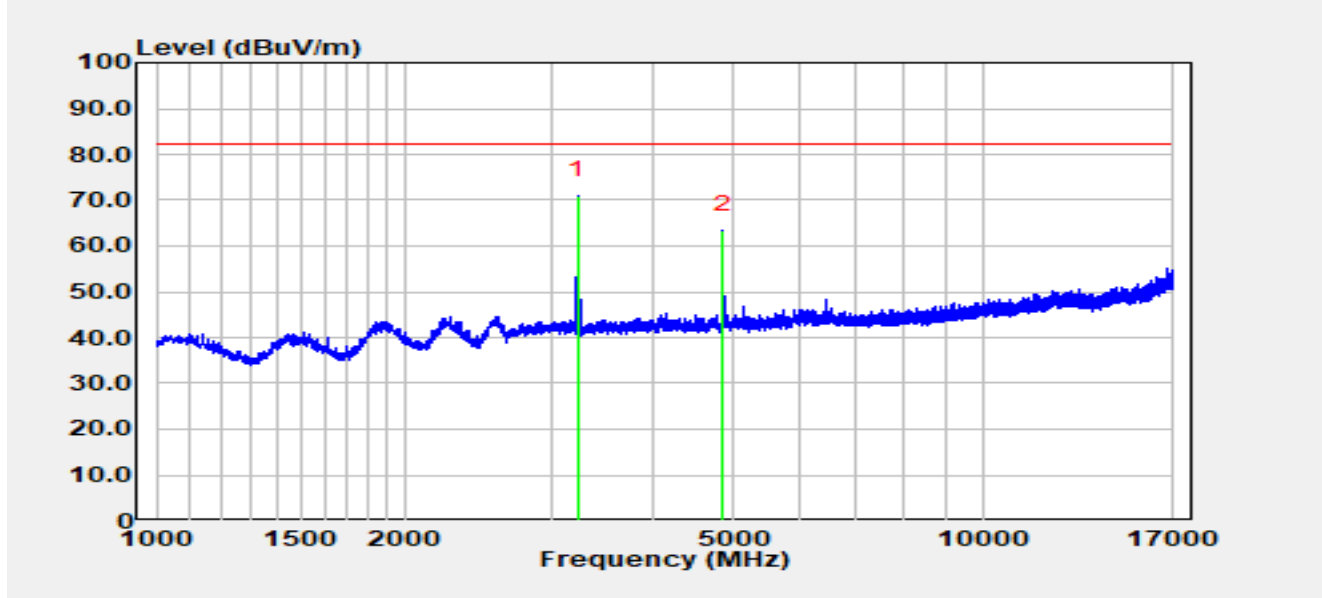
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		828.65	1.34	29.06	30.40	-51.90	82.30	Peak
2	*	929.66	1.77	30.02	31.79	-50.51	82.30	Peak

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Radiated Spurious Emission For 1 GHz ~ 17 GHz:

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit at 1616.020833 MHz		

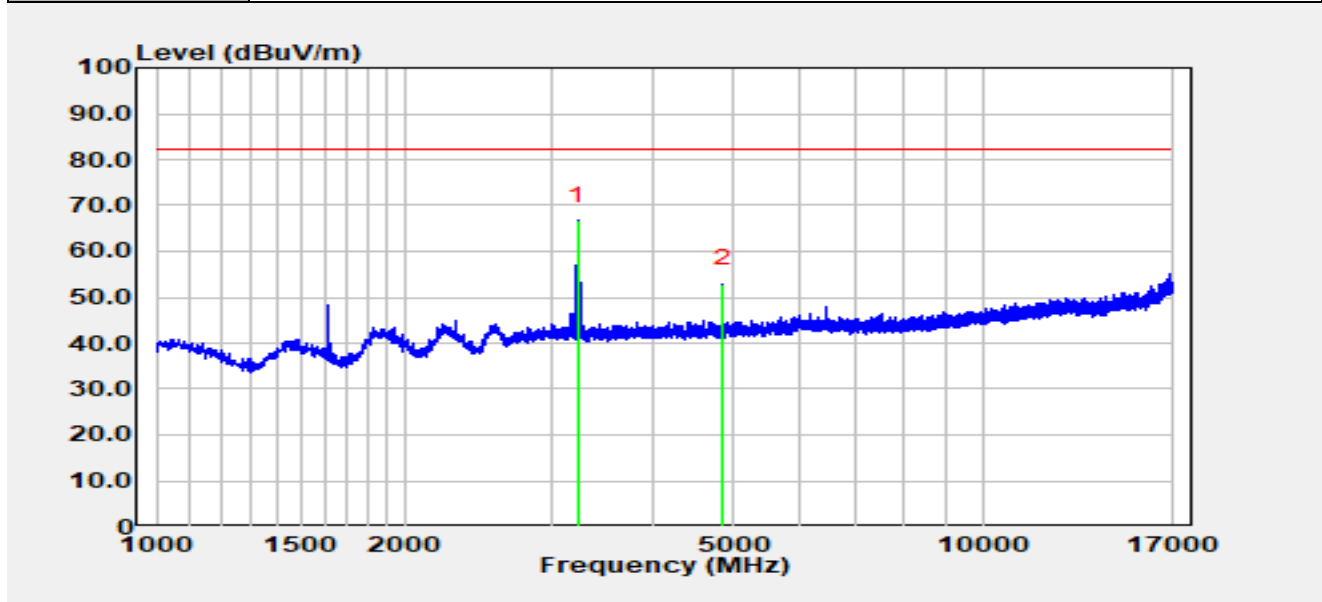


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	3232.00	69.49	1.49	70.98	-11.32	82.30	Peak
2		4848.00	61.78	1.71	63.49	-18.81	82.30	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit at 1616.020833 MHz		

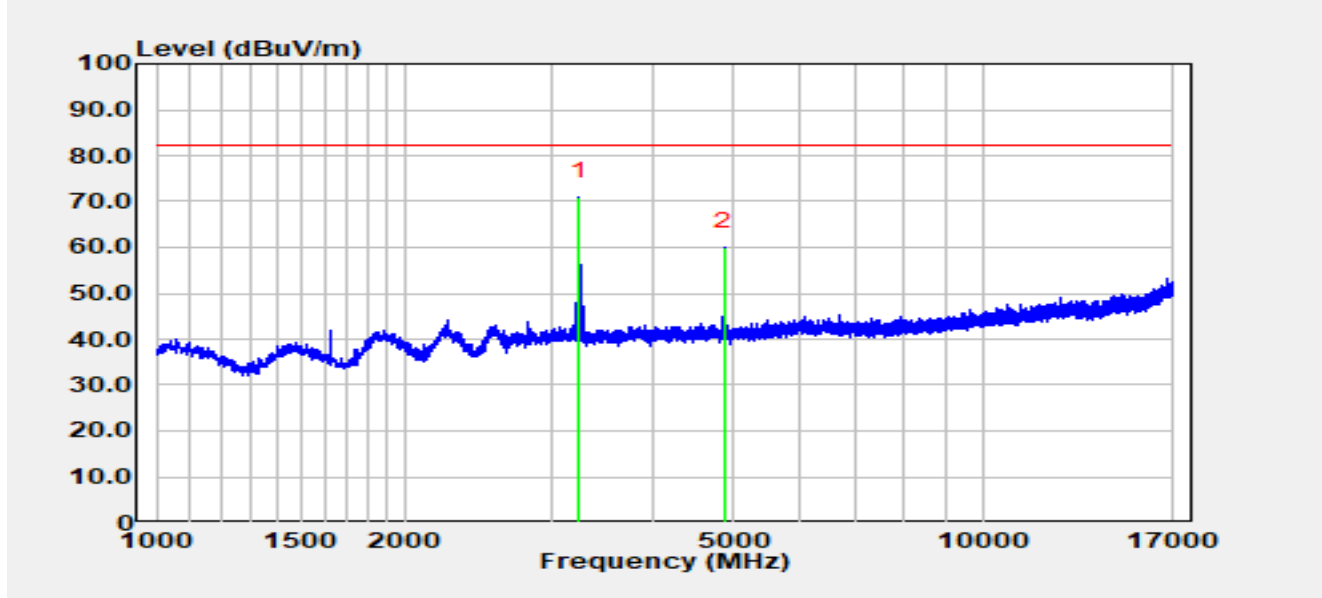


No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1	*	3232.00	65.27	1.49	66.75	-15.55	82.30	Peak
2		4848.00	51.22	1.71	52.93	-29.37	82.30	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBUV/m) = Reading (dBUV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit at 1621.020833 MHz		

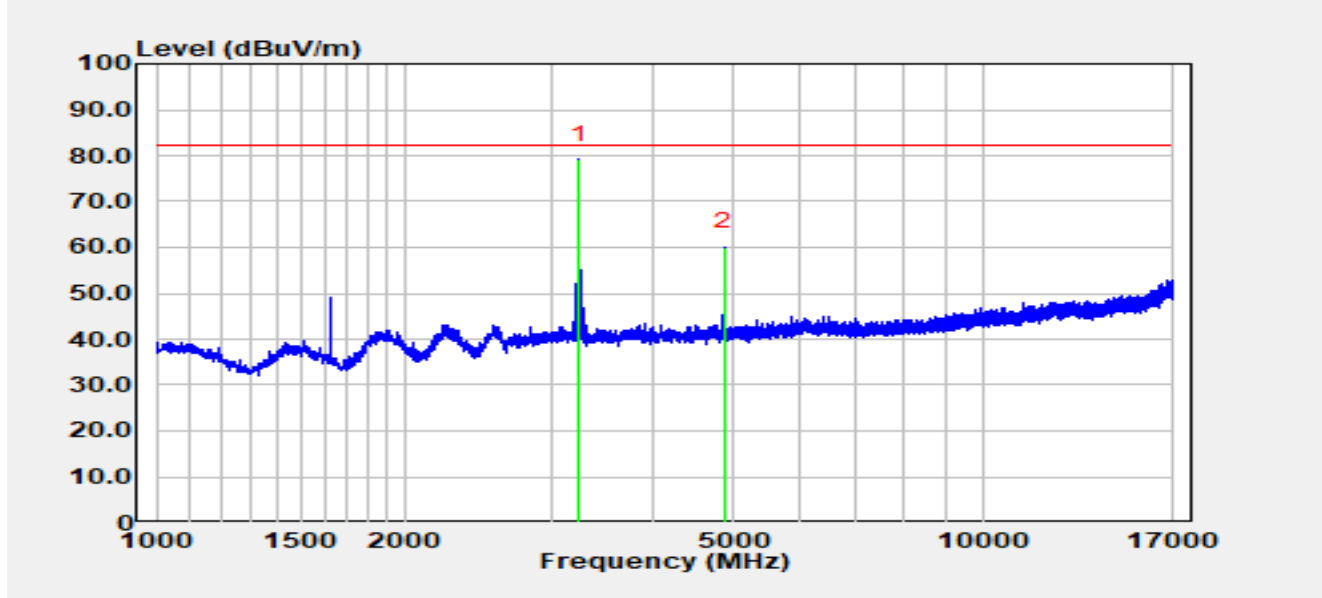


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	3241.60	69.49	1.49	70.97	-11.33	82.30	Peak
2		4862.40	58.45	1.62	60.08	-22.22	82.30	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit at 1621.020833 MHz		

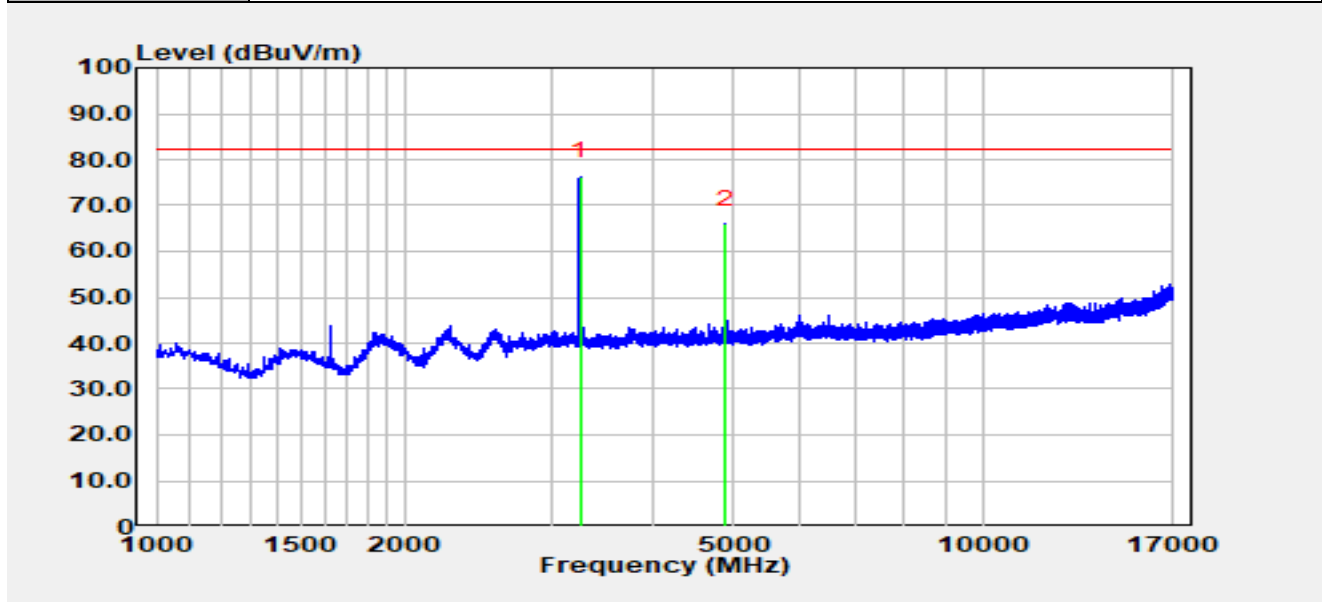


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	3241.60	77.59	1.49	79.08	-3.22	82.30	Peak
2		4864.00	58.52	1.61	60.13	-22.17	82.30	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit at 1625.979167 MHz		

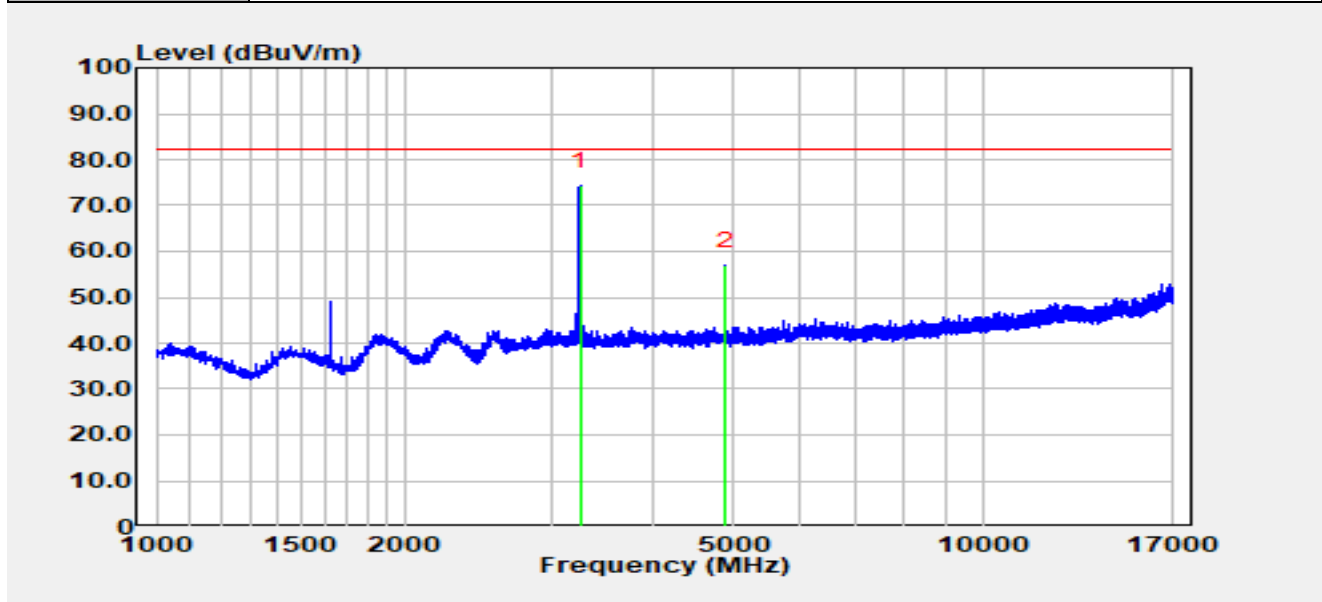


No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1	*	3252.80	74.85	1.44	76.30	-6.00	82.30	Peak
2		4878.40	64.40	1.52	65.92	-16.38	82.30	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBUV/m) = Reading (dBUV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2026-05-09
Temperature	22.9 °C	Humidity	50.3%
Limit	FCC_Part 25_RSE (3m)	Test Engineer	Bob Zhang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit at 1625.979167 MHz		



No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1	*	3252.80	72.78	1.44	74.23	-8.07	82.30	Peak
2		4878.40	55.40	1.52	56.92	-25.38	82.30	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBUV/m) = Reading (dBUV) + C.F (dB/m).

Appendix B - Test Setup Photograph

Refer to “R26S1064035-UT” file.

Appendix C - EUT Photograph

Refer to "R26S1064035-UE" file.

The End