

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358

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Report No.: 2312RSU030-U3

RF MEASUREMENT REPORT

FCC ID: DD4MXW8X

Applicant: Shure Incorporated

Regulatory Model MXW8X

Number (RMN):

Product Number: MXW8X Z10, MXW8XW Z10

Brand Name: SHURE SHURE

FCC Classification: Unlicensed PCS Base Station

FCC Rule Part(s): FCC Part 15, Subpart D

Result: Complies

Receiver Date: 2023-12-08

Test Date: 2024-01-15 ~ 2024-01-24

Reviewed By:

Jame Yuan

Approved By:

Robin Wu

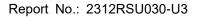


The test results relate only to the samples tested.

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 C63.17. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date	Note
2312RSU030-U3	V01	Initial Report	2024-05-30	Valid



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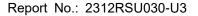
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1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.3. Testing Facility

\boxtimes	☐ Test Site – MRT Suzhou Laboratory						
	Laboratory Location (Suzhou - Wuzhong)						
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China						
	Laboratory Locat	tion (Suzhou - SIP	')				
	4b Building, Liando	o U Valley, No.200	Xingpu Rd., Shengpu	u Town, Suzhou Indu	strial Park, China		
	Laboratory Accre	editations					
	A2LA: 3628.01		CNAS	S: L10551			
	FCC: CN1166	N1166 ISED: CN0001					
	VCCI:	□R-20025	□G-20034	□C-20020	□T-20020		
	VCCI:	□R-20141	□G-20134	□C-20103	□T-20104		
	Test Site – MRT Shenzhen Laboratory						
	Laboratory Locat	tion (Shenzhen)					
	1G, Building A, Jui	nxiangda Building,	Zhongshanyuan Roa	d West, Nanshan Di	strict, Shenzhen, China		
	Laboratory Accre	editations					
	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, TW	3261	ISED:	TW3261			



1.4. Product Information

Product Name	Wireless Microphone			
Regulatory Model Number	MXW8X			
Product Number	MXW8X Z10, MXW8XW Z10			
EUT Identification No.	20231216Sample#17			
UPCS Specification	DECT, 1920 ~ 1930MHz			
Bluetooth Specification	v5.3 single mode, BLE only			
Antenna Information	Refer to section 1.5			
Working Voltage	Power by Li-ion battery or USB-C input			
Operating Temperature	5 ~ 40 °C			
Accessories				
Rechargeable Li-ion Battery	Model: SB908			
	Rating: 3.65Vdc, 2500mAh, 9.12Wh			
Note A. The later was to a CEUT. The second later was fast on a self-second and a later was a later.				

Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

Note 2: MXW8X enclosure colour is black, MXW8XW enclosure colour is white, any others is the same.

1.5. Radio Specification under Test

Frequency Range	1921.536 ~ 1928.448MHz	
Channel Number	5	
Type of Modulation	GFSK	
Antenna Type	Internal Chip	
Antenna A Gain	1.3dBi	
Antenna B Gain	3.2dBi	
Note: Only one antenna works at a time.		

1.6. Working Frequencies

UPCS Channel	Frequency (MHz)
Highest Band Edge	1930.000
0 (Highest)	1928.448
1	1926.720
2	1924.992
3	1923.264
4 (Lowest)	1921.536
Lowest Band Edge	1920.000

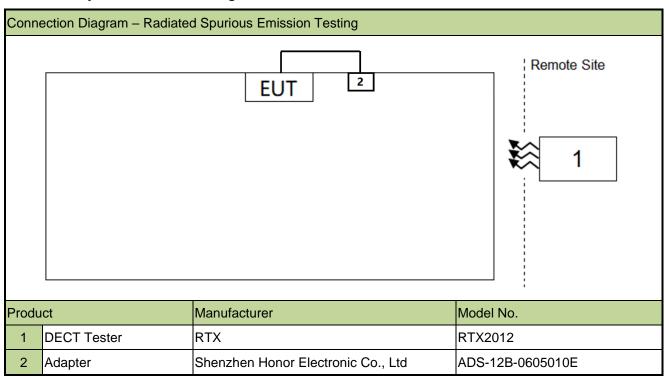


2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at DECT channel

2.2. Test System Connection Diagram



2.3. Applied Standards

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

- FCC Part 15D
- ANSI C63.17-2013

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 the unit is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

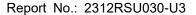
The unit complies with the requirement of §15.203.



4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2024-05-15	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2024-05-23	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Thermohygrometer	testo	Testo 608-H1	MRTSUE11038	1 year	2024-11-07	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2024-11-04	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2024-12-17	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2024-06-09	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2024-05-23	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2024-05-31	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2024-09-27	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2024-05-31	WZ-SR5
Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2024-02-29	WZ-SR5
DECT Tester	RTX	RTX2012	MRTSUE06408	1 year	2024-02-29	WZ-SR5
Signal Generator	Keysight	N5182B	MRTSUE06993	1 year	2024-07-31	WZ-SR5
Signal Generator	Keysight	N5182B	MRTSUE06451	1 year	2024-06-29	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11085	1 year	2024-06-08	WZ-SR5
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2024-09-27	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2024-05-23	WZ-TR3

Software	Version	Function
EMI V3	V 3.0.0	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & turntable
Controller_MF 7802	2.03C	RE Antenna & turntable
RTX2012	V 2.08.17	DECT





5. 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: 3.58dB 150kHz~30MHz: 3.20dB

Radiated Emission Measurement

The maximum measurement uncertainty is evaluated as:

Coaxial: 9kHz~30MHz: 2.61dB
Coplanar: 9kHz~30MHz: 2.62dB
Horizontal: 30MHz~200MHz: 3.79dB

200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB

Vertical: 30MHz~200MHz: 4.06dB

200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB

Spurious Emissions, Conducted

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

2.2dB

Output Power

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.4dB

Power Spectrum Density

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

2.2dB

Occupied Bandwidth

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

2.7%



6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict			
15.319(b)	Digital Modulation Techniques	Declared	Pass			
15.19(a)(3)	Labeling requirements	Declared	Pass			
15.319(f)	Automatic discontinuation of transmission	Conducted	Pass			
15.317, 15.203	Antenna Requirement	Declared	Pass			
15.315	AC Power Line Conducted Emission	Line Conducted	Pass			
15.323(a)	Emission Bandwidth		Pass			
15.319(c)	Peak Transmit Power	Conducted	Pass			
15.319(d)	Power Spectral Density	Conducted	Pass			
15.323(d)	In-band emissions		Pass			
15.323(d)	Out-of-band emissions	Conducted and Radiated	Pass			
15.323(e)	Frame Repetition Stability and period and Jitter		Pass			
15.323(f)	Carrier frequency stability		Pass			
15.323(c1, c2, c3, c4)	Listen Before Transmit (LBT)	Condition	Pass			
15.323(c5)	Least Interfered Channel (LIC)	Conducted	Pass			
15.323(c6)	Random Waiting		N/A			
15.323(c7)	Monitoring Requirements		Pass			
15.323(c8)	Monitoring Antenna	Declared	Pass			
15.323(c9)	Monitoring Threshold Relaxation		N/A			
15.323(c10)	Duplex System LBT	Conducted	N/A			
15.323(c11)	Co-Located Device LBT		N/A			
15.323(c12)	Fair Access	Declared	N/A			
Remark: "N/A" means that this item is not applicable, and the detail information refer to relevant section.						



6.2. AC Power Line Conducted Measurement Emissions

6.2.1. Test Limit

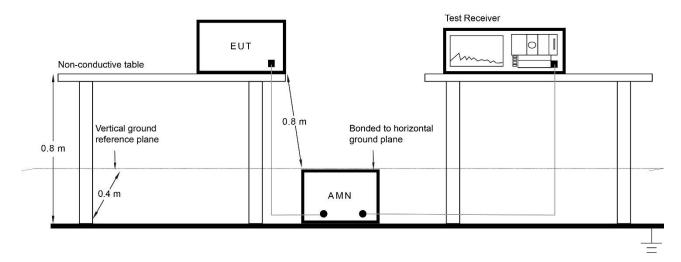
An unlicensed PCS device that is designed to be connected to the public utility (AC) power line must meet the limits specified in § 15.207.

FCC Part 15.207 Limits					
Frequency (MHz) QP (dBµV) AV (dBµV)					
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.

6.2.2. Test Setup

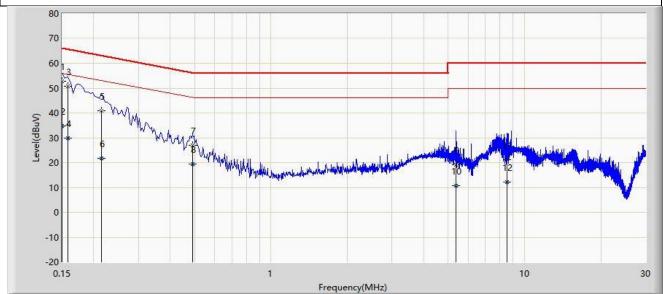




6.2.3. Test Result

Test Made: Transmit at shannel 0	·
EUT: Wireless Microphone	Power: By Adapter
Probe: ENV216_101683_Filter Off_C	Polarity: Line
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Site: WZ-SR2	Test Date: 2024-01-24

Test Mode: Transmit at channel 0

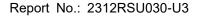


No	Mork	Eroguenev	Mogauro	Dooding	Morgin	Limit	Footor	Type
No	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBµV)	(dB)	
			(dBµV)	(dBµV)				
1	*	0.150	52.842	43.127	-13.158	66.000	9.715	QP
2		0.150	34.664	24.949	-21.336	56.000	9.715	AV
3		0.158	50.865	41.150	-14.703	65.568	9.716	QP
4		0.158	29.876	20.160	-25.692	55.568	9.716	AV
5		0.214	40.821	31.091	-22.228	63.049	9.730	QP
6		0.214	21.660	11.931	-31.388	53.049	9.730	AV
7		0.490	26.962	17.125	-29.206	56.168	9.837	QP
8		0.490	19.458	9.621	-26.710	46.168	9.837	AV
9		5.358	19.132	8.941	-40.868	60.000	10.190	QP
10		5.358	10.828	0.637	-39.172	50.000	10.190	AV
11		8.498	21.267	10.998	-38.733	60.000	10.269	QP
12		8.498	12.098	1.829	-37.902	50.000	10.269	AV

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

Note 2: Measure Level ($dB\mu V$) = Reading Level ($dB\mu V$) + Factor (dB).

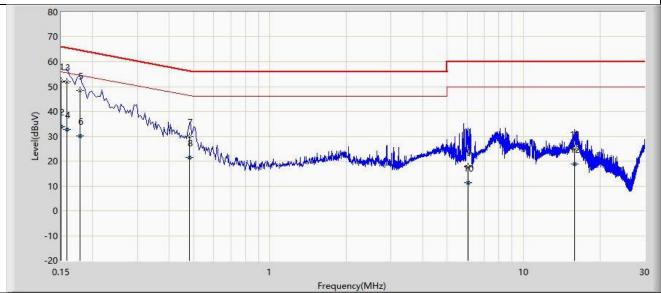
Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).





Site: WZ-SR2	Test Date: 2024-01-24
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Linda Wei
Probe: ENV216_101683_Filter Off_C	Polarity: Neutral
EUT: Wireless Microphone	Power: By Adapter

Test Mode: Transmit at channel 0



No	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBµV)	(dB)	
			(dBµV)	(dBµV)				
1		0.150	52.290	42.586	-13.710	66.000	9.704	QP
2		0.150	33.957	24.253	-22.043	56.000	9.704	AV
3	*	0.158	51.949	42.243	-13.619	65.568	9.706	QP
4		0.158	32.788	23.083	-22.780	55.568	9.706	AV
5		0.178	48.343	38.632	-16.236	64.578	9.710	QP
6		0.178	30.076	20.365	-24.503	54.578	9.710	AV
7		0.482	29.822	19.999	-26.483	56.305	9.823	QP
8		0.482	21.331	11.508	-24.974	46.305	9.823	AV
9		6.026	17.741	7.556	-42.259	60.000	10.185	QP
10		6.026	11.387	1.202	-38.613	50.000	10.185	AV
11		15.886	25.014	14.681	-34.986	60.000	10.333	QP
12		15.886	18.874	8.541	-31.126	50.000	10.333	AV

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

Note 2: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).



6.3. Emission Bandwidth Measurement

6.3.1. Test Limit

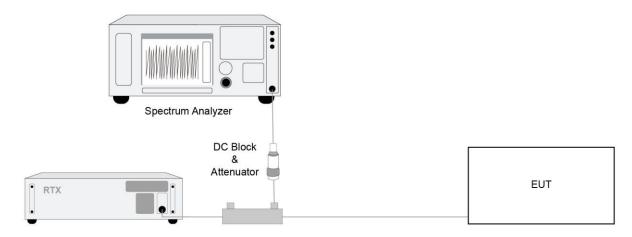
The 26 dB Bandwidth B shall be larger than 50 kHz and less than 2.5MHz.

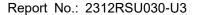
No requirement for 6 dB and 12 dB Bandwidth. These values are only used for testing Monitoring Bandwidth if the Simple Compliance test fails (ANSI C63.17, clause 7.4).

6.3.2. Test Procedure

ANSI C63.17, Clause 6.1.3

6.3.3. Test Setup







6.3.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
04	1921.536	1.398	0.05 ~ 2.5	Pass
02	1924.992	1.384	0.05 ~ 2.5	Pass
00	1928.448	1.389	0.05 ~ 2.5	Pass





6.4. Peak Transmit Power and Antenna Gain

6.4.1. Test Limit

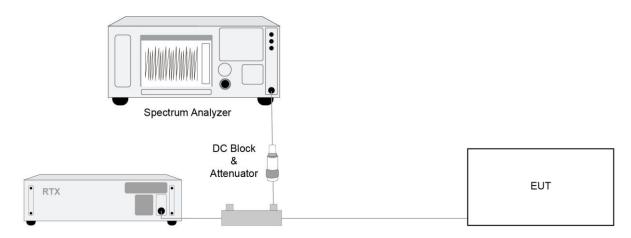
Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in Hertz

The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3dBi.

6.4.2. Test Procedure

ANSI C63.17, Clause 6.1.2

6.4.3. Test Setup





6.4.4. Test Result

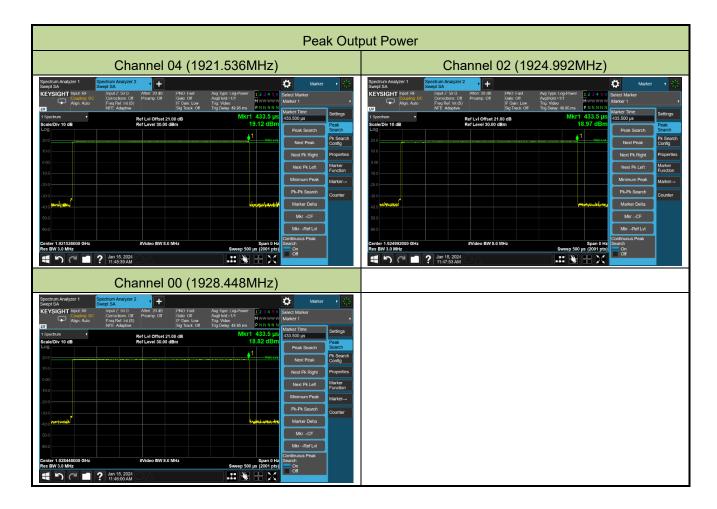
Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		

Channel No.	Frequency	Peak Transmit Power	Limit	Result
	(MHz)	(dBm)	(dBm)	
04	1921.536	19.12	≤ 20.51	Pass
02	1924.992	18.97	≤ 20.51	Pass
00	1928.448	18.82	≤ 20.51	Pass

Note 1: The min EBW = 1384000Hz

Limit = $10*log(100\mu W \times (EBW)^{1/2} \div 1000)$ - (Antenna Gain - 3) = 20.51dBm.

Note 2: Antenna Gain = 3.2dBi > 3dBi





6.5. Power Spectral Density

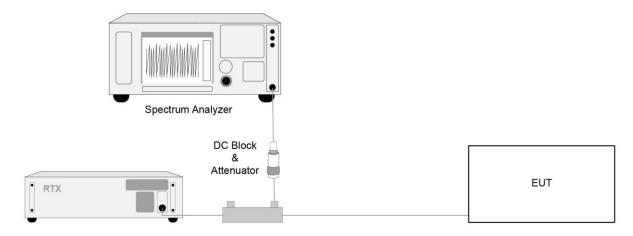
6.5.1. Test Limit

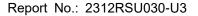
Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

6.5.2. Test Procedure

ANSI C63.17, Clause 6.1.5

6.5.3. Test Setup



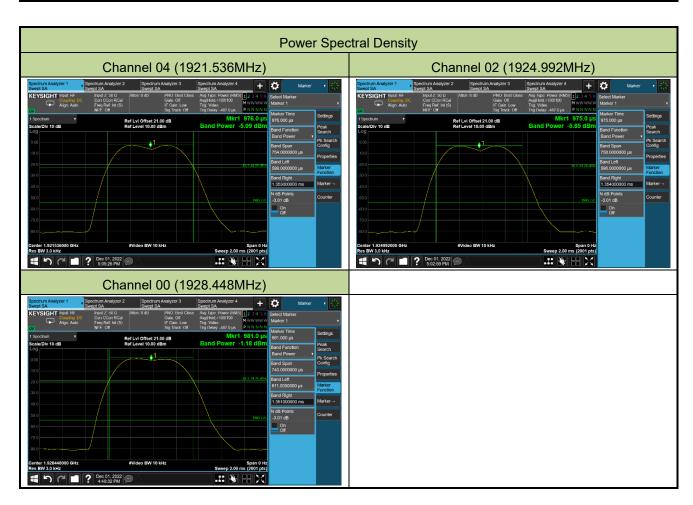




6.5.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		

Channel No.	Frequency (MHz)	Measured PSD (dBm / 3kHz)	Measured PSD (mW / 3kHz)	Limit (mW / 3kHz)	Result
04	1921.536	-0.89	0.81	≤ 3.00	Pass
02	1924.992	-1.01	0.79	≤ 3.00	Pass
00	1928.448	-1.17	0.76	≤ 3.00	Pass





6.6. In-Band Unwanted Emissions

6.6.1. Test Limit

B < f2 _2B: less than or equal to 30 dB below maximum permitted peak power level.

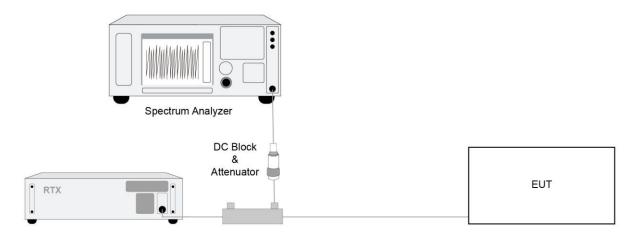
2B < f2 _3B: less than or equal to 50 dB below maximum permitted peak power level.

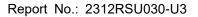
3B < f2 _UPCS Band Edge: less than or equal to 60 dB below maximum permitted peak power level.

6.6.2. Test Procedure

ANSI C63.17, Clause 6.1.6.1

6.6.3. Test Setup

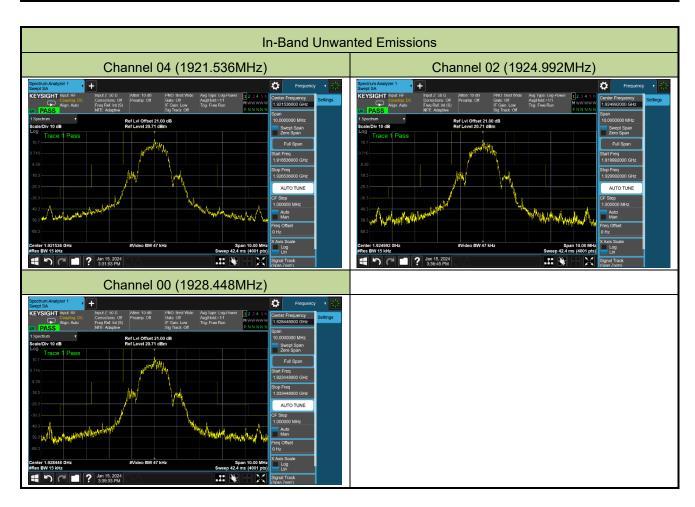






6.6.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		





6.7. Out-of-Band Emissions, Conducted

6.7.1. Test Limit

f ≤ 1.25 MHz outside UPCS band: ≤ -9.5dBm

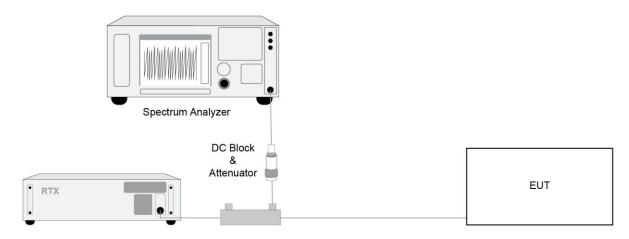
1.25 MHz ≤ f ≤ 2.5 MHz outside UPCS band: ≤ -29.5dBm

f ≤ 2.5 MHz outside UPCS band: ≤ -39.5dBm

6.7.2. Test Procedure

ANSI C63.17, Clause 6.1.6.2

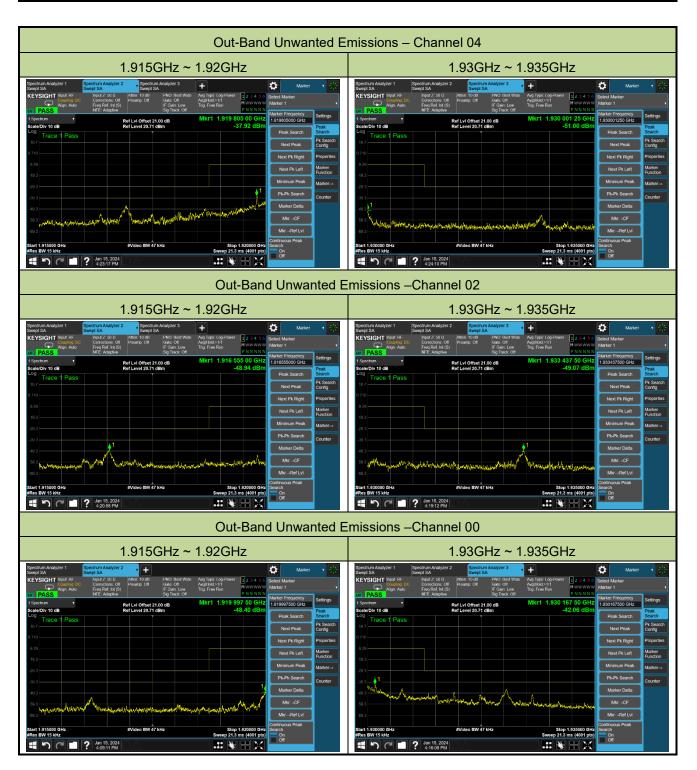
6.7.3. Test Setup





6.7.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		





6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

For section 15.323(d): Emission outside the band shall be attenuation below a reference power of 112 milliwatts: 60 dB at 2.5 MHz or greater above or below the band

For section 15.319(g): Notwithstanding other technical requirements specified in this subpart, attenuation of emissions below the general emission limits in 15.209 is not required.

Where the limit is more stringent than 15.209, the limits of 15.209 take precedence as indicated in 15.319(g).

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209							
Frequency Field Strength Measured Distance							
[MHz]	[uV/m]	[Meters]					
0.009 - 0.490	2400/F (kHz)	300					
0.490 - 1.705	24000/F (kHz)	30					
1.705 - 30	30	30					
30 - 88	100	3					
88 - 216	150	3					
216 - 960	200	3					
Above 960	500	3					

6.8.2. Test Procedure

ANSI C63.10 Section 6.3 (General Requirements)

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

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

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)



6.8.3. 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
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1GHz

- 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

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Average Measurements above 1GHz (Method VB)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle \geq 98%, set VBW = 10 Hz.

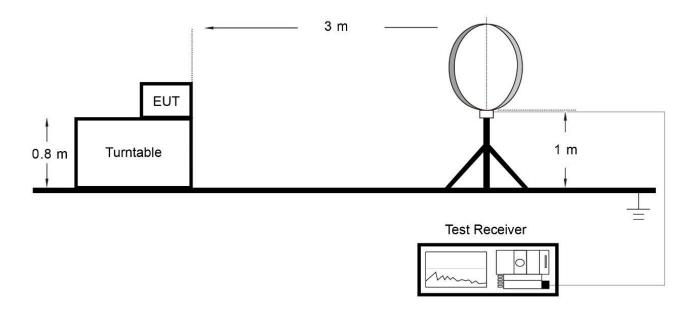
If the EUT duty cycle is < 98%, set VBW $\ge 1/T$. T is the minimum transmission duration.

- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

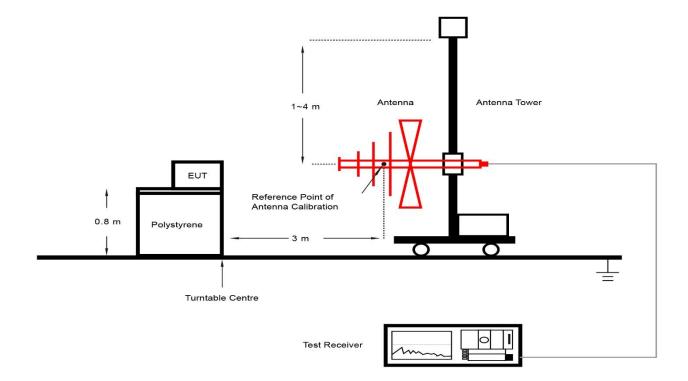


6.8.4. Test Setup

Below 30MHz Test Setup:

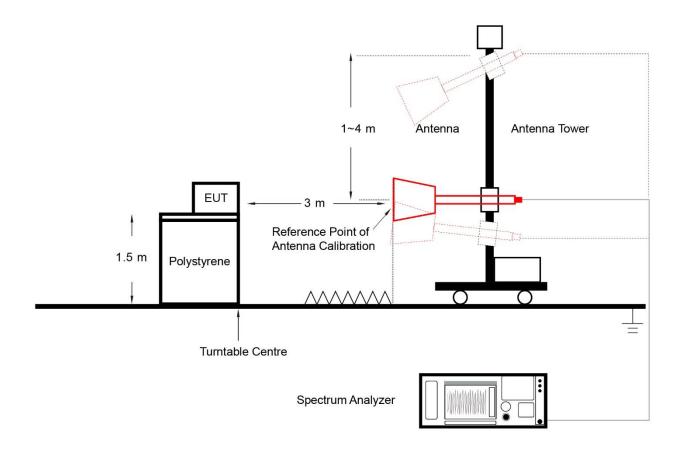


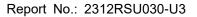
Below 1GHz Test Setup:





Above 1GHz Test Setup:







6.8.5. Test Result

Test Site	WZ-AC2	Test Engineer	Bob Zhang				
Test Date	2024-01-15	Test Antenna	Antenna A				
Remark	Average measurement was not performed if peak level lower than average limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the						
	report.						

Test Channel	Frequency (MHz)	Reading Level	Factor (dB/m)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	3856.0	45.0	-0.1	44.9	74.0	-29.1	Peak	Horizontal
	8199.5	33.2	11.4	44.6	74.0	-29.4	Peak	Horizontal
00	11489.0	31.6	17.7	49.3	74.0	-24.7	Peak	Horizontal
00	3856.0	45.1	-0.1	45.0	74.0	-29.0	Peak	Vertical
	8097.5	33.7	12.0	45.7	74.0	-28.3	Peak	Vertical
	11506.0	32.6	17.4	50.0	74.0	-24.0	Peak	Vertical
	3850.0	44.6	-0.1	44.5	74.0	-29.5	Peak	Horizontal
	7460.0	32.4	12.2	44.6	74.0	-29.4	Peak	Horizontal
00	11472.0	31.5	17.5	49.0	74.0	-25.0	Peak	Horizontal
02	3850.0	44.3	-0.1	44.2	74.0	-29.8	Peak	Vertical
	7332.5	33.6	11.4	45.0	74.0	-29.0	Peak	Vertical
	11565.5	32.6	17.8	50.4	74.0	-23.6	Peak	Vertical
	3839.0	44.2	-0.3	43.9	74.0	-30.1	Peak	Horizontal
	8106.0	33.6	12.1	45.7	74.0	-28.3	Peak	Horizontal
0.4	11693.0	32.5	17.3	49.8	74.0	-24.2	Peak	Horizontal
04	3847.5	36.1	-0.2	35.9	74.0	-38.1	Peak	Vertical
	4706.0	35.2	2.9	38.1	74.0	-35.9	Peak	Vertical
	11701.5	32.7	17.5	50.2	74.0	-23.8	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)





Test Site	WZ-AC2	Test Engineer	Bob Zhang			
Test Date	2024-01-15	Test Antenna	Antenna B			
Remark	Average measurement was not performed if peak level lower than average limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the					
	report.					

Test Channel	Frequency (MHz)	Reading Level (dBµV)	Factor (dB/m)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	3856.0	43.0	-0.1	42.9	74.0	-31.1	Peak	Horizontal
	8199.5	31.5	11.4	42.9	74.0	-31.1	Peak	Horizontal
00	11489.0	30.5	17.7	48.2	74.0	-25.8	Peak	Horizontal
00	3856.0	44.2	-0.1	44.1	74.0	-29.9	Peak	Vertical
	8097.5	32.5	12.0	44.5	74.0	-29.5	Peak	Vertical
	11506.0	31.6	17.4	49.0	74.0	-25.0	Peak	Vertical
	3850.0	43.6	-0.1	43.5	74.0	-30.5	Peak	Horizontal
	7460.0	32.5	12.2	44.7	74.0	-29.3	Peak	Horizontal
00	11472.0	30.7	17.5	48.2	74.0	-25.8	Peak	Horizontal
02	3850.0	43.2	-0.1	43.1	74.0	-30.9	Peak	Vertical
	7332.5	32.6	11.4	44.0	74.0	-30.0	Peak	Vertical
	11565.5	31.5	17.8	49.3	74.0	-24.7	Peak	Vertical
	3839.0	43.5	-0.3	43.2	74.0	-30.8	Peak	Horizontal
	8106.0	32.7	12.1	44.8	74.0	-29.2	Peak	Horizontal
0.4	11693.0	32.4	17.3	49.7	74.0	-24.3	Peak	Horizontal
04	3847.5	35.7	-0.2	35.5	74.0	-38.5	Peak	Vertical
	4706.0	34.8	2.9	37.7	74.0	-36.3	Peak	Vertical
	11701.5	31.7	17.5	49.2	74.0	-24.8	Peak	Vertical

Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB/m)

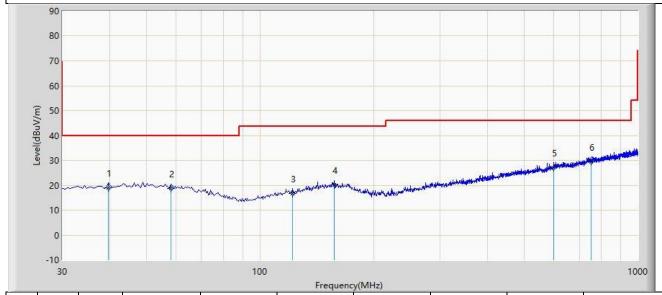
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



The Worst Result of Radiated Emission below 1GHz:

Test Made: Transmit at channel 0	1
EUT: Wireless Microphone	Power: By Adapter
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang
Site: WZ-AC1	Test Data: 2024-01-18

Test Mode: Transmit at channel 0



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBµV/m)	(dB/m)	
				(dBµV/m)	(dBµV)				
1			39.700	19.057	1.063	-20.943	40.000	17.995	QP
2			58.130	18.677	0.520	-21.323	40.000	18.157	QP
3			122.150	16.617	0.520	-26.883	43.500	16.097	QP
4			157.070	20.009	1.720	-23.491	43.500	18.289	QP
5			599.875	26.973	1.400	-19.027	46.000	25.573	QP
6		*	752.165	29.560	1.520	-16.440	46.000	28.039	QP

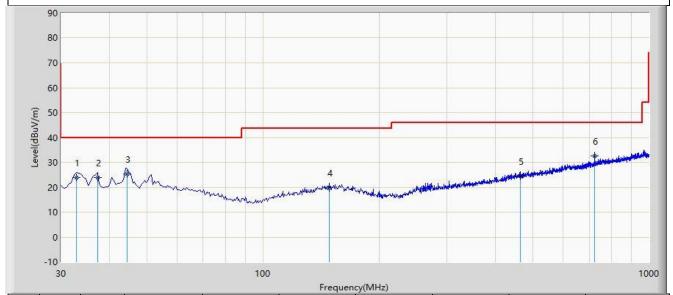
Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 20GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



Site: WZ-AC1	Test Data: 2024-01-18				
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang				
Probe: VULB 9168_25-2000MHz	Polarity: Vertical				
EUT: Wireless Microphone	Power: By Adapter				
Test Mode: Transmit at channel 00					



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB/m)	
				(dBuV/m)	(dBuV)				
1			32.910	24.029	6.670	-15.971	40.000	17.359	QP
2			37.275	23.932	6.210	-16.068	40.000	17.722	QP
3			44.550	25.437	7.010	-14.563	40.000	18.427	QP
4			148.340	19.724	1.670	-23.776	43.500	18.055	QP
5			463.590	24.361	1.700	-21.639	46.000	22.661	QP
6		*	722.580	32.703	5.610	-13.297	46.000	27.093	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 20GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



6.9. Frame Repetition Stability and Period and Jitter

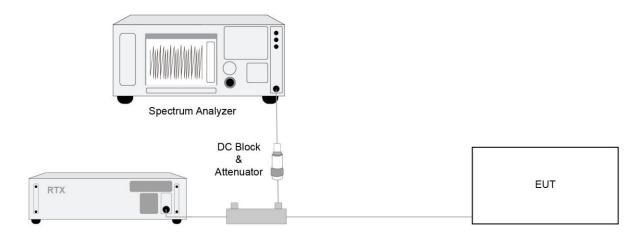
6.9.1. Test Limit

The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of an intentional radiator operating in this band shall be 20 milliseconds or 10 milliseconds/X where X is a positive whole number. Each device that implements time division for the purposes of maintaining a duplex connection on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 50 parts per million (ppm). Each device which further divides access in time in order to support multiple communication links on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 10 ppm. The jitter (time-related, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 microseconds for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for the device.

6.9.2. Test Procedure

ANSI C63.17, Clause 6.2.2 & 6.2.3

6.9.3. Test Setup





6.9.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-15		

Carrier Frequency	Frame Repetition Stability (ppm)					Limit (nnm)
(MHz)	Standard deviation			Frame Repetition Stability		Limit (ppm)
1924.992	0.147			0.441		±10
Carrier Frequency	Frame Jitter (us)					Limit (up)
(MHz)	min	mean	max	△min	△max	Limit (us)
1924.992	-0.1	0	0.1	-0.1	0.1	±25



6.10. Carrier Frequency Stability

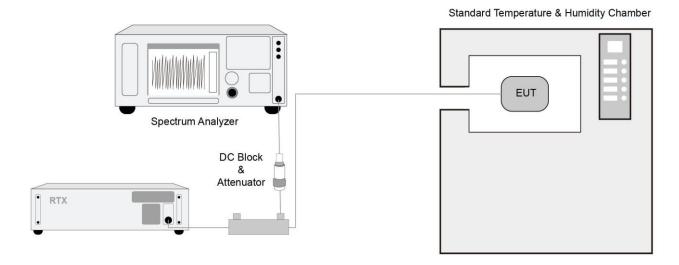
6.10.1. Test Limit

Per §15.323(f), the frequency stability of the carrier frequency of the intentional radiator shall be maintained within ±10 ppm over 1 hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of −20°C to +50°C at normal supply voltage, and over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20 °C. For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage.

6.10.2. Test Procedure

ANSI C63.17, Clause 6.2.1

6.10.3. Test Setup





6.10.4. Test Result

Test Site	WZ-TR3	Test Engineer	Liz Yuan
Test Date	2024-01-15		

Carrier Frequency Stability over Time at Nominal Temperature

Average Mean Carrier	Max. Diff.	Min. Diff.	Max Dev.	Limit
Frequency (MHz)	(kHz)	(kHz)	(ppm)	(ppm)
1924.99470	7.2	0.5	2.34	±10

Carrier Frequency Stability over Temperature

Voltage	Average Mean Carrier	Max. Diff	Deviation	Limit
	Frequency (MHz)	(kHz)	(ppm)	(ppm)
T = +20°C		Ref	Ref	
T = 0°C	1924.99470	7.0	2.23	±10
T = +40°C		6.8	2.13	

Note 1: Mean. Diff = Average Mean Carrier Frequency - Carrier Frequency

Deviation ppm = ((Max. Diff. - Mean. Diff.) / Mean Carrier Freq.) x 10^{6} .

Note 2: This sample is powered by batteries, so the stability over power supply voltage is not applicable.



6.11. Listen Before Transmit (LBT)

6.11.1. Test Limit

Monitoring Time Requirements

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum window in which they intend to transmit. For a period of at least 10 milliseconds for systems designed to use a 10 milliseconds or shorter frame period or at least 20 milliseconds for systems designed to use a 20 milliseconds frame period.

Monitoring Threshold

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth of the device.

Calculation of monitoring threshold limits for isochroous devices:

Monitoring threshold: $T_L = -174 + 10 \text{Log}_{10}B + M_u + P_{MAX} - P_{EUT} (dBm)$

Where: B=Emission bandwidth (Hz)

M_u=dB the threshold may exceed thermal noise (30dB)

 $P_{MAX}=5*Log_{10}B-10(dBm)$

P_{EUT}=Transmitted power (dBm)

Monitor	В	Mυ	P _{MAX}	Реит	Threshold
Threshold	(MHz)	(dB)	(dBm)	(dBm)	(dBm)
ΤL	1.384	30	20.51	19.12	-81.20

The EUT must not transmit until the interference level is less than or equal to:

Measured Threshold Level $\leq T_L + U_m = -81.20 + 6 = -75.20 dBm$

Maximum Transmit Period

If no signal above the threshold level is detected, transmission may commence and continue with the same emission bandwidth in the monitored time and spectrum windows without further monitoring. However, occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 h is not permitted without repeating the access criteria.

System Acknowledgement

Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgements must be received at least every 30 s or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 s without receiving an

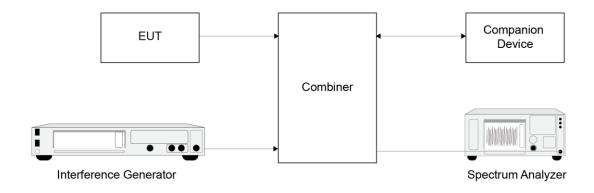


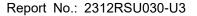
acknowledgement, at which time the access criteria must be repeated.

6.11.2. Test Procedure

ANSI C63.17, Clause 7.3 & 8.2.

6.11.3. Test Setup







6.11.4. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-16		

Monitoring Time Requirements

Interference ref. to ANSI C63.17 clause 7.3.3	Reaction of EUT	Results
Apply the interference on f1 at level T _L +U _M +20, and no interference	erence on f1 at level T _L +U _M +20, and no interference EUT transmits on f2 Page	
on f2. Initiate transmission and verify the transmission on f2.		
Apply the interference on f2 at level T _L +U _M +20, at the same time, no		
interference on f1. After about 20ms, initiate transmission and verify	EUT transmits on f1	Pass
the transmission on f1.		

Monitoring Threshold Requirements

The test is not applicable, because the EUT supports at least of 20 duplex system access channels and implements Least Interfered Channel (LIC) algorithm.

Maximum Transmit Period

Test ref. to ANSI C63.17 clause 8.2.2	Observation	Verdict
Transmission duration on same time and frequency window	Only for initiating device that	
	controls which time slot is	N/A
	used	

System Acknowledgements

Test ref. to ANSI C63.17 clause 8.2.1	Observation	Verdict
Initial transmission without acknowledgements	Not applicable for EUT that	
	transmits control and	N/A
	signaling information	
Transmission time after loss of acknowledgements	5.1 sec	Pass



6.12. Least Interfered Channel (LIC) Requirements

6.12.1. Test Limit

LIC Selection

If access to spectrum is not available as determined by the above, and a minimum of 20 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level may be accessed.

Least Interfered Channel Confirmation

A device utilizing the provisions of this paragraph must have monitored all access channels defined for its system within the last 10 s and must verify, within the 20ms (40ms for devices designed to use a 20 ms frame period) immediately preceding actual channel access, that the detected power of the selected time and spectrum windows is no higher than the previously detected value.

Power Measurement Resolution

The power measurement resolution for this comparison must be accurate to within 6dB.

Maximum Spectrum Occupancy

No device or group of co-operating devices located within 1 m of each other shall, during any frame period, occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.

6.12.2. Test Procedure

ANSI C63.17, Clause 7.3.2 & 7.3.3



6.12.3. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-16		

LIC Selection

The customer claims the product supports a minimum of 20 duplex system access channels.

Least Interfered Channel Confirmation

The test result is reported in section 6.11.

Power Measurement Resolution

Test ref. to ANSI C63.17 clause 7.3.2	Observation	Verdict	
b) Apply interference to the EUT on f_1 at a level of T_L +			
U_M + 7dB and on f_2 at a level of T_L + U_M .	EUT transmit on f2	Pass	
Initiate transmission. The EUT should transmit on f ₂ .	EOT transmit on 12	rass	
Terminate the connection. Repeat five times.			
c) Apply interference to the EUT on f_1 at a level of T_L +			
U_M and on f_2 at a level of T_L + U_M + 7dB.	EUT transmit on f₁	Pass	
Initiate transmission. The EUT should transmit on f ₁ .	EOT transmit on 11		
Terminate the connection. Repeat five times.			
d) Apply interference to the EUT on f_1 at a level of T_L +			
U_M + 1dB and on f_2 at a level of T_L + U_M - 6dB. Initiate		Pass	
transmission. If the EUT transmits on f ₂ , terminate the	EUT transmit on f ₂		
connection. Repeat five times.			
e) Apply interference to the EUT on f_1 at a level of T_L +			
U_M + 1dB and on f_2 at a level of T_L + U_M – 6dB. Initiate	EUT transmit on f₁	Pass	
transmission. If the EUT transmits on f ₂ , terminate the	EOT (IditStill) OIT 11		
connection. Repeat five times.			

Maximum Spectrum Occupancy

According to the technical description provided, the total number of the time and spectrum windows defined by the system is more than 20.

During any frame period, the maximum number of different channels will be 5, which is less than one third of the time and spectrum windows defined by the system.



6.13. Random waiting Requirements

6.13.1. Test Limit

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same window after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

6.13.2. Test Procedure

ANSI C63.17, Clause 8.1.3

6.13.3. Test Result

For systems that do implement the LIC algorithm and offer at least 20 duplex communications channels, the test is not applicable.



6.14. Monitoring Requirements

6.14.1. Test Limit

Threshold and LIC Monitoring Bandwidth

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission.

Reaction Time and Monitoring Interval

The monitoring system shall have a maximum reaction time less than $50 \times SQRT$ (2.5/emission bandwidth in MHz) µs for signals at the applicable threshold level but shall not be required to be less than 50μ s. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be $35 \times SQRT$ (2.5/emission bandwidth in MHz) µs but shall not be required to be less than 35μ s. and have a maximum reaction time less than 50xSQRT (1.25/emission bandwidth in MHz) microseconds for signals at the applicable threshold level but shall not be required to be less than 50xSQRT (1.25/emission bandwidth in MHz) microseconds.

6.14.2. Test Procedure

ANSI C63.17, Clause 7.4 & 7.5



6.14.3. Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2024-01-16		

Monitoring Bandwidth

Monitoring bandwidth of the EUT is equal to the occupied bandwidth of the intended transmission.

Monitoring is made through the radio receiver used by the EUT for communication.

Monitoring Reaction Time

Test Equation (μs)	B (MHz)	Pulse width(µs)
50 (1.25/B) ^{1/2}	1.384	47.52
25 (1.25/B) ^{1/2}	1.384	23.76

Test ref. to ANSI C63.17 clause 7.5	Observation	Verdict
1) Additionally apply a CW signal on f_2 at the level T_L		
and interference pulse on f_1 at level $T_L + U_M$ to the		
receive port of the EUT. Verify that the EUT	EUT transmit on f ₂	Pass
establishes a connection only on f2 when the width of		
the interference pulse exceeds 50µs.		
2) Change the time-synchronized, pulsed interference		
on f_1 to the level T_L + U_M + 6dB. Verify that the EUT		Pass
establishes a connection only on f2 when the width of	EUT transmit on f ₂	
the interference pulse exceeds 35µs.		



6.15. Monitoring Antenna Requirements

6.15.1. Test Limit

The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

6.15.2. Test Procedure

ANSI C63.17 Clause 4

6.15.3. Test Result

The antenna of the EUT used for transmission is the same interior antenna that used for monitoring.



6.16. Monitoring Threshold Relaxation Requirements

6.16.1. Test Limit

Devices that have a power output Lowest than the maximum permitted under the rules can increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

6.16.2. Test Procedure

ANSI C63.17 Clause 4

6.16.3. Test Result

This requirement is covered by the results of Least Interfered Channel (LIC).



6.17. Duplex System LBT

6.17.1. Test Limit

An initiating device may attempt to establish a duplex connection by monitors both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

6.17.2. Test Procedure

ANSI C63.17, Clause 8.3.1 & 8.3.2

6.17.3. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.



6.18. Alternative monitoring interval for co-located devices Requirements

6.18.1. Test Limit

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 milliseconds frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or co-located co-operating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

6.18.2. Test Procedure

ANSI C63.17, Clause 8.4

6.18.3. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.



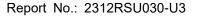
6.19. Fair Access

6.19.1. Test Limit

The provisions of (c)(10) or (c)(11) shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

6.19.2. Test Result

The test is not applicable. Because the test is only applicable for EUT that can be initiating device.





6.20. Automatic Discontinuation of Transmission

Does the EUT transmit Control and Signaling Information?	⊠Yes	□No
Does the EUT support Least Interfered Channel algorithm?	⊠Yes	□No
Type of EUT	☐Initiating Device	⊠Responding Device

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

Number	Test	EUT Reaction	Verdict
1	Power Removed from EUT	А	Pass
2	Switch off EUT	N/A	Pass
3	Power Removed from Companion Device	В	Pass
4	Switch off Companion Device	В	Pass

- A Connection breakdown, Cease of all transmissions
- B Connection breakdown, EUT transmits control and signaling information
- C Connection breakdown, Companion Device transmits control and signaling information
- N/A Not Applicable (EUT does not have on/off switch)

Requirements, FCC 15.319(f)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.



Appendix A - Test Setup Photograph

Refer to "2312RSU030-UT" file.



Appendix B - EUT Photograph

Refer to "2312RSU030-UE" file.

_____ The End