



CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3

TEST REPORT

For

wegear WL500 Rechargeable Silent Mouse

MODEL NUMBER: MS-394

REPORT NUMBER: 4791636337-3-RF-1

ISSUE DATE: March 4, 2025

FCC ID: 2BK5ZMS394A IC: 32844-MS394A

Prepared for

HONGKONG JIURU TECHNOLOGY CO., LIMITED
UNIT 21 OF WORKSHOP A ON 10/F MANNING INDUSTRIAL BLDG NOS. 116-118
HOW MING ST KWUN TONG KL HONGKONG

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 4, 2025	Initial Issue	

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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC 15.203 RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013 Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013 Clause 7.8.5	FCC 15.247 (b) (1) RSS-247 Clause 5.1 (b)	Pass
20 dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013 Clause 6.9.2	FCC 15.247 (a) (1) RSS-247 Clause 5.1 (a) RSS-Gen Clause 6.7	Pass
Carrier Hopping Channel Separation	ANSI C63.10-2013 Clause 7.8.2	FCC 15.247 (a) (1) RSS-247 Clause 5.1 (b)	Pass
Number of Hopping Frequency	ANSI C63.10-2013 Clause 7.8.3	15.247 (a) (1) III RSS-247 Clause 5.1 (d)	Pass
Time of Occupancy (Dwell Time)	ANSI C63.10-2013 Clause 7.8.4	15.247 (a) (1) III RSS-247 Clause 5.1 (d)	Pass
Conducted Bandedge and Spurious Emission	ANSI C63.10-2013 Clause 6.10.4 & Clause 7.8.8	FCC 15.247 (d) RSS-247 Clause 5.5	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass
Radiated Band edge and Spurious Emission ANSI C63.10-2013 Clause 6.3 & 6.5 & 6.6		FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass

Note:

ISED RSS-247 Issue 3> when <Simple Acceptance> decision rule is applied.

^{1.} N/A: In this whole report not applicable.

^{*}This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: HONGKONG JIURU TECHNOLOGY CO., LIMITED

Address: UNIT 21 OF WORKSHOP A ON 10/F MANNING INDUSTRIAL

BLDG NOS. 116-118 HOW MING ST KWUN TONG KL

HONGKONG

Manufacturer Information

Company Name: HONGKONG JIURU TECHNOLOGY CO., LIMITED

Address: UNIT 21 OF WORKSHOP A ON 10/F MANNING INDUSTRIAL

BLDG NOS. 116-118 HOW MING ST KWUN TONG KL

HONGKONG

EUT Information

Operations Manager

EUT Name: wegear WL500 Rechargeable Silent Mouse

Model: MS-394 Brand: wegear

Sample Received Date: January 13, 2025

Sample Status: Normal Sample ID: 8025015

Date of Tested: January 13, 2025 to March 4, 2025

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3	Pass			

Prepared By:	Checked By:
Johnson Liu	kebo. zhung
Johnson Liu	Kebo Zhang
Laboratory Engineer	Senior Project Engineer
Approved By:	
Stephen Cuo	
Stephen Guo	

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2,ANSI C63.10-2013 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
20dB Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Carrier Frequency Separation	±1.9%
Maximum Conducted Output Power	±0.743 dB
Number of Hopping Channel	±1.9%
Time of Occupancy	±0.028%
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	wegear WL500 Rechargeable Silent Mouse
Model	MS-394

Frequency Range:	2402 MHz to 2480 MHz	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Type of Modulation:	GFSK	
Normal Test Voltage:	DC 5V via Adapter or DC 3.7V via Battery	

Note: We have pre-test the two ways of power supply, only the worst data were recorded in the report.

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	1	/
10	2422	21	2444	32	2466	/	/

5.3. MAXIMUM POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)	
SRD 2.4G	2402 ~ 2480	0-39[40]	0.36	

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
SRD 2.4G	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz
SRD 2.4G	Hopping	



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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band						
Test So	oftware	N/A				
Modulation Type Transmit Antenna		Test Software setting value				
Modulation Type	Number	CH 0	CH 19	CH 39		
SRD 2.4G	1	Default	Default	Default		

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB Antenna	-1.66

Test Mode	Transmit and Receive Mode	Description	
SRD 2.4G	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.	

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5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YCC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A,65.0W Max

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

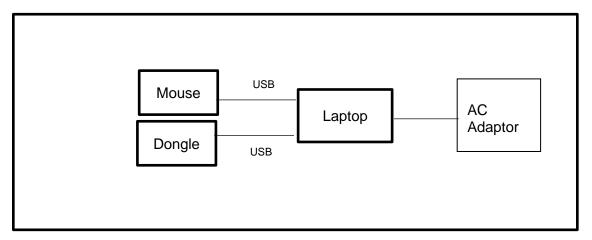
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	Dongle	wegear	wegear WL500 Rechargeable Silent Mouse Dongle	/

TEST SETUP

The EUT can work in engineering mode independently.

SETUP DIAGRAM FOR TESTS FOR AC Conducted Power Line



Note: For AC conducted power line, The dongle and mouse have been tested in both separate working mode and together working mode, only the worst data was recorded in the report.



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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System										
Equipment	Equipment Manufactu			turer	Model	No.	Serial No.	Last C	Cal.	Due. Date
Power sensor, Power M	leter		R&S	;	OSP1	20	100921	Mar.25,	2024	Mar.24,2025
Vector Signal Genera	tor		R&S	;	SMBV1	00A	261637	Sep.28,	2024	Sep.27, 2025
Signal Generator			R&S	;	SMB10	00A	178553	Sep.28,	2024	Sep.27, 2025
Signal Analyzer			R&S	3	FSV4	Ю	101118	Sep.28,	2024	Sep.27, 2025
					Softwa	re				
Description			N	/lanuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em	Rol	nde &	Schwar	rz	EMC	32		10.60.10
Tonsend RF Test System										
Equipment	Man	ufact	urer	Mod	del No.	S	erial No.	Last C	Cal.	Due. Date
Wireless Connectivity Tester		R&S		CM	W270	120 ⁻	1.0002N75- 102	Sep.13,	2024	Sep.12, 2025
PXA Signal Analyzer	Ke	eysigl	ht	N9	030A	MY	′55410512	Sep.28,	2024	Sep.27, 2025
MXG Vector Signal Generator	Ke	eysigl	ht	N5	182B	MY	56200284	Sep.28,	2024	Sep.27, 2025
MXG Vector Signal Generator	Ke	eysigl	ht	N5	172B	MY	′56200301	Sep.28,	2024	Sep.27, 2025
DC power supply	Ke	eysigl	ht	E3	642A	MY	′55159130	Sep.28,	2024	Sep.27, 2025
Temperature & Humidity Chamber	SAI	NMO	OD	SG-8	30-CC-2		2088	Sep.28,	2024	Sep.27, 2025
Attenuator	Д	\glien	glient 84		195B	28	14a12853	Sep.28,	2024	Sep.27, 2025
RF Control Unit	То	nscend JS0		0806-2	23E	380620666	Mar.25,	2024	Mar.24,2025	
	Software									
Description		Manu	ufact	urer	Name Vers		Version			
Tonsend SRD Test Sys	tem	To	nser	nd	JS1 ²	120-3	3 RF Test S	ystem		V3.2.22



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Conducted Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Sep.28, 2024	Sep.27, 2025		
Two-Line V- Network	R&S	ENV216	101983	Sep.28, 2024	Sep.27, 2025		
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.28, 2024	Sep.27, 2025		
	Software						
	Description		Manufacturer	Name	Version		
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1		

	Radiated Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025			
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027			
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025			
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025			
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025			
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Sep.28, 2024	Sep.27, 2025			
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027			
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Sep.28, 2024	Sep.27, 2025			
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Sep.28, 2024	Sep.27, 2025			
Loop antenna	Schwarzbeck	1519B	80000	Dec.09, 2024	Dec.08, 2027			
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Sep.28, 2024	Sep.27, 2025			
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025			
	Software							
]	Description		Manufacturer	Name	Version			
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1			



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Other Instrument							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025		
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025		
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025		



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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

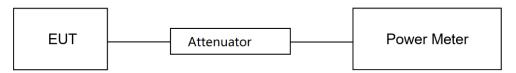
CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 3						
Section	Test Item	Limit	Frequency Range (MHz)			
CFR 47 FCC 15.247 (b) (1) ISED RSS-247 Clause 5.4 (b)	Peak Conducted Output Power	Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel: 1 watt or 30 dBm; Hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel: 125 mW or 21 dBm	2400-2483.5			

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan
1 COL Dato	Obligary 12, 2020	1 Ook Dy	vvalitor radii

TEST RESULTS

Please refer to section "Test Data" - Appendix C

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7.2. 20 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Range (MHz)			Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1) RSS-247 Clause 5.1 (a)	20 dB Bandwidth	None; for reporting purposes only.	2400-2483.5
ISED RSS-Gen Clause 6.7 99 % Occupied None; for reporting purposes only. 2400-2		2400-2483.5	

TEST PROCEDURE

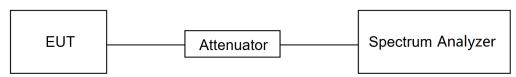
Refer to ANSI C63.10-2013 clause 6.9.2.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RRW	For 20 dB Bandwidth: 1 % to 5 % of the 20 dB bandwidth For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
	For 20 dB Bandwidth: approximately 3×RBW For 99 % Occupied Bandwidth: ≥ 3×RBW
Span	Approximately 2 to 3 times the 20dB bandwidth
Trace	Max hold
Sweep	Auto couple

a) Use the occupied bandwidth function of the instrument, allow the trace to stabilize and report the measured 99 % occupied bandwidth and 20 dB Bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



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TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan
	,		

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

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7.3. CARRIER HOPPING CHANNEL SEPARATION

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1) ISED RSS-247 Clause 5.1 (b)	Carrier Frequency Separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.2.

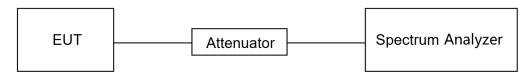
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
	Start with the RBW set to approximately 30 % of the channel spacing; adjust as necessary to best identify the center of each individual channel.
VBW	≥RBW
Trace	Max hold
Sweep time	Auto couple

Allow the trace to stabilize and use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined.

TEST SETUP





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TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

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7.4. NUMBER OF HOPPING FREQUENCY

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 3		
Section Test Item Limit		
CFR 47 15.247 (a) (1) III ISED RSS-247 Clause 5.1 (d) Number of Hopping Frequency at least 15 hopping channels		

TEST PROCEDURE

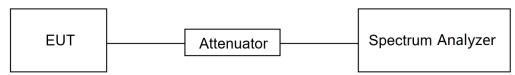
Refer to ANSI C63.10-2013 clause 7.8.3.

Connect the EUT to the spectrum Analyzer and use the following settings:

Detector	Peak
RBW	To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW	≥RBW
Span	The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
Trace	Max hold
Sweep time	Auto couple

Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer, count the quantity of peaks to get the number of hopping channels.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



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TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan
	,		

TEST RESULTS

Please refer to section "Test Data" - Appendix F



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7.5. TIME OF OCCUPANCY (DWELL TIME)

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 3				
Section	Section Test Item Limit			
CFR 47 15.247 (a) (1) III ISED RSS-247 Clause 5.1 (d) Time of Occupancy (Dwell Time)		The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed.		

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.4.

Connect the EUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1 MHz
VBW	≥RBW
Span	Zero span, centered on a hopping channel
Trace	Max hold
Sweep time	As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel

Use the marker-delta function to determine the transmit time per hop (Burst Width). If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

For FHSS Mode (79 Channel):

DH1/3DH1 Dwell Time: Burst Width * (1600/2) * 31.6 / (channel number) DH3/3DH3 Dwell Time: Burst Width * (1600/4) * 31.6 / (channel number) DH5/3DH5 Dwell Time: Burst Width * (1600/6) * 31.6 / (channel number)

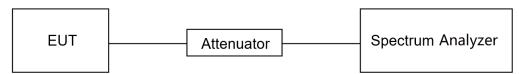
For AFHSS Mode (20 Channel):

DH1/3DH1 Dwell Time: Burst Width * (800/2) * 8 / (channel number) DH3/3DH3 Dwell Time: Burst Width * (800/4) * 8 / (channel number) DH5/3DH5 Dwell Time: Burst Width * (800/6) * 8 / (channel number)



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TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix E

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CONDUCTED BANDEDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.6 and 7.8.8.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

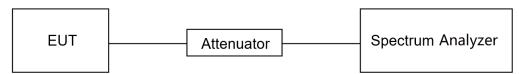
Enange the Settings for emission level measurement.		
Span	Set the center frequency and span to encompass frequency range to be measured	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
measurement points	≥span/RBW	
Trace	Max hold	
Sweep time	Auto couple.	

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum



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TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	February 12, 2025	Test By	Walker Yuan
	, ,	,	i

TEST RESULTS

Please refer to section "Test Data" - Appendix G&H



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7.7. DUTY CYCLE

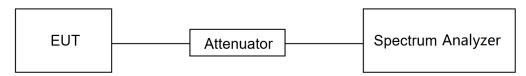
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

T . D .	E	T 15	\A/ II \\
Test Date	February 12, 2025	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix I

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz-1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m Field Strength Limit (dBuV/m) at 3 m Quasi-Peak) at 3 m
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak 74	Average 54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)			
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz			
Frequency Magnetic field strength (H-Field) (µA/m) Measurement distance (m)			
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300	
490 - 1705 kHz	63.7/F (F in kHz)	30	
1.705 - 30 MHz	0.08	30	

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	182.0125 - 187.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
8.215 - 6.218	608 - 614	23.6 - 24.0
8.26775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1680 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57875 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

FCC Restricted bands of operation refer to FCC §15.205 (a):

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

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



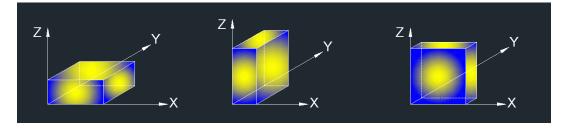
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
1\/B\/\/	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.7. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



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For Restricted Bandedge:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. PK=Peak: Peak detector.
- 4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.7.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes have been tested, but only the worst data was recorded in the report.
- 5. $dBuA/m = dBuV/m 20Log10[120\pi] = dBuV/m 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.7.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes have been tested, but only the worst data was recorded in the report.

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For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

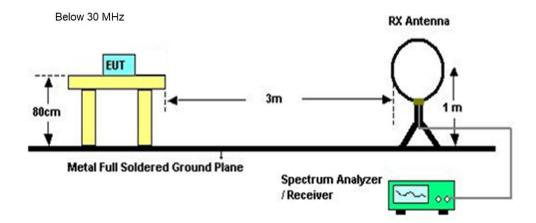
- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.7.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

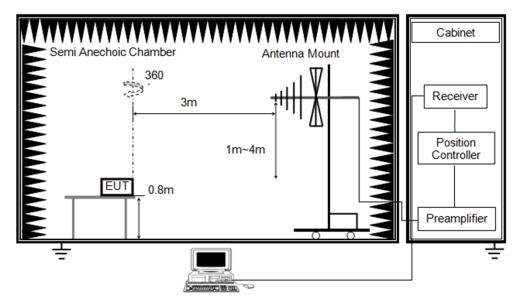
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes have been tested, but only the worst data was recorded in the report.

TEST SETUP

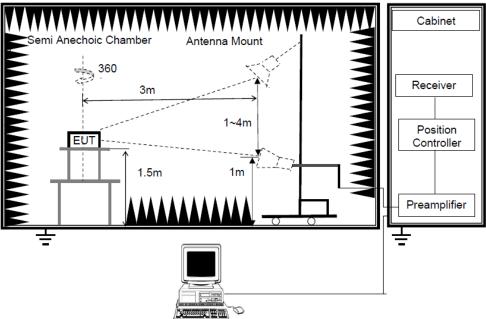




Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.6℃	Relative Humidity	59.4%
Atmosphere Pressure	101kPa	Test Voltage	

TEST DATE / ENGINEER

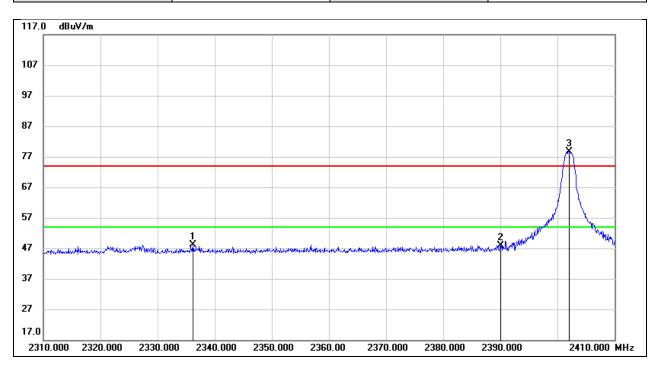
Test Date	March 3, 2025	Test By	Mason Wang
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TEST RESULTS

8.1. RESTRICTED BANDEDGE

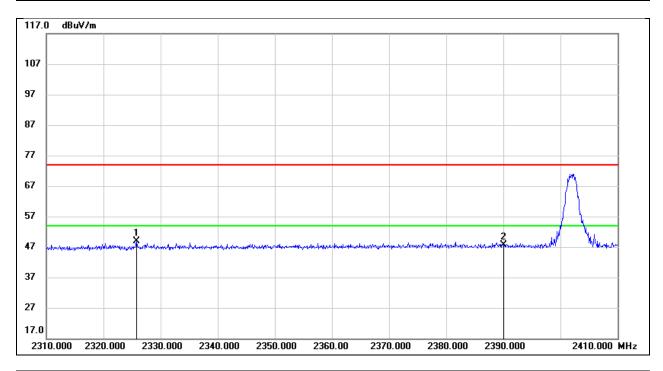
Test Mode:	SDR 2.4G PK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2336.200	16.68	31.52	48.20	74.00	-25.80	peak
2	2390.000	16.16	31.73	47.89	74.00	-26.11	peak
3	2402.000	46.87	31.77	78.64	1	/	Fundamental



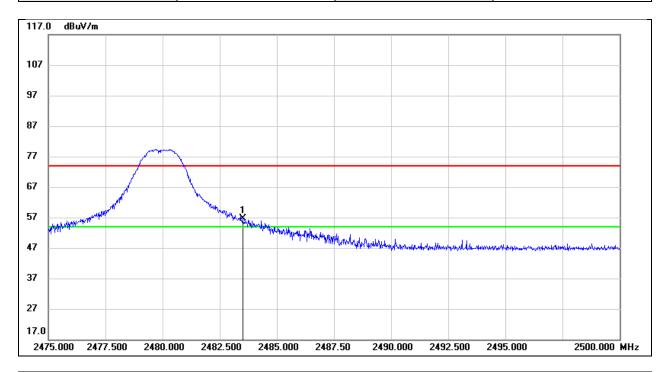
Test Mode:	SDR 2.4G PK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2325.800	16.68	32.32	49.00	74.00	-25.00	peak
2	2390.000	15.01	32.55	47.56	74.00	-26.44	peak



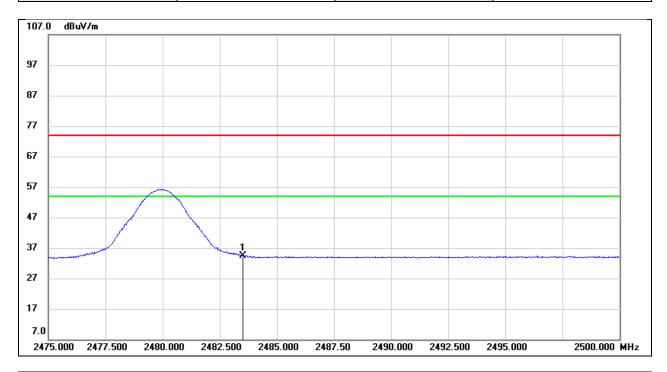
Test Mode:	SDR 2.4G PK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	24.59	32.00	56.59	74.00	-17.41	peak



Test Mode:	SDR 2.4G AV	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 3.7V

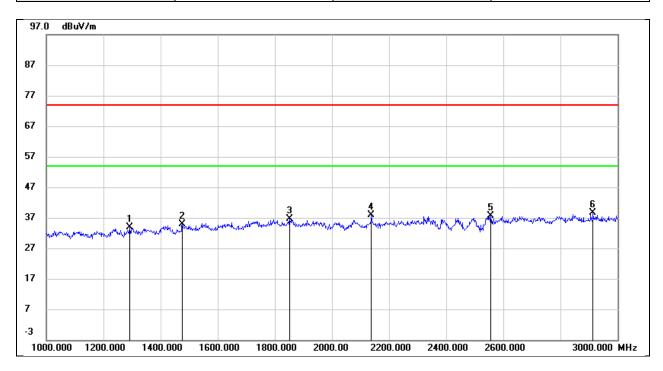


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	2.34	32.00	34.34	54.00	-19.66	AVG

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8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

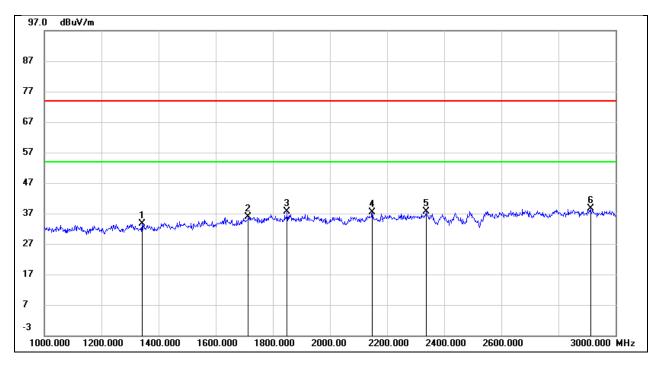
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1292.000	46.77	-13.00	33.77	74.00	-40.23	peak
2	1476.000	46.90	-12.01	34.89	74.00	-39.11	peak
3	1852.000	46.72	-10.00	36.72	74.00	-37.28	peak
4	2138.000	47.50	-9.57	37.93	74.00	-36.07	peak
5	2556.000	45.54	-7.96	37.58	74.00	-36.42	peak
6	2914.000	45.11	-6.40	38.71	74.00	-35.29	peak



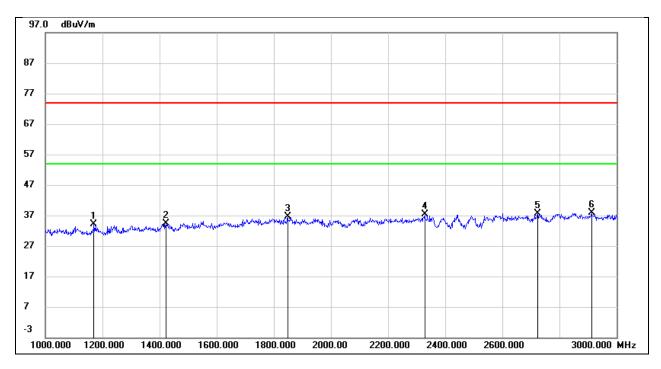
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1342.000	46.04	-12.46	33.58	74.00	-40.42	peak
2	1714.000	46.01	-10.13	35.88	74.00	-38.12	peak
3	1850.000	47.07	-9.34	37.73	74.00	-36.27	peak
4	2148.000	46.11	-8.66	37.45	74.00	-36.55	peak
5	2336.000	45.72	-8.00	37.72	74.00	-36.28	peak
6	2912.000	43.76	-5.20	38.56	74.00	-35.44	peak



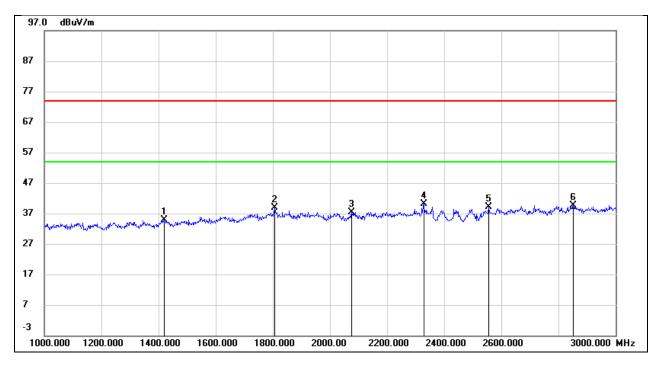
Test Mode:	SDR 2.4G	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1170.000	47.72	-13.62	34.10	74.00	-39.90	peak
2	1422.000	46.66	-12.33	34.33	74.00	-39.67	peak
3	1848.000	46.54	-9.99	36.55	74.00	-37.45	peak
4	2328.000	46.23	-8.85	37.38	74.00	-36.62	peak
5	2724.000	45.00	-7.25	37.75	74.00	-36.25	peak
6	2912.000	44.35	-6.41	37.94	74.00	-36.06	peak



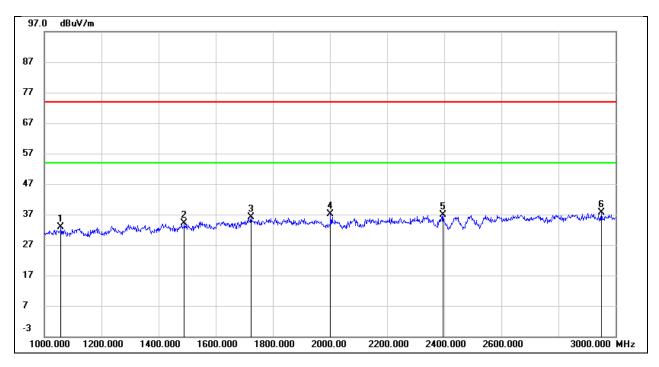
Test Mode:	SDR 2.4G	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1420.000	47.03	-12.15	34.88	74.00	-39.12	peak
2	1806.000	48.18	-9.38	38.80	74.00	-35.20	peak
3	2076.000	46.31	-8.92	37.39	74.00	-36.61	peak
4	2328.000	48.10	-8.02	40.08	74.00	-33.92	peak
5	2556.000	46.12	-7.11	39.01	74.00	-34.99	peak
6	2852.000	45.15	-5.53	39.62	74.00	-34.38	peak



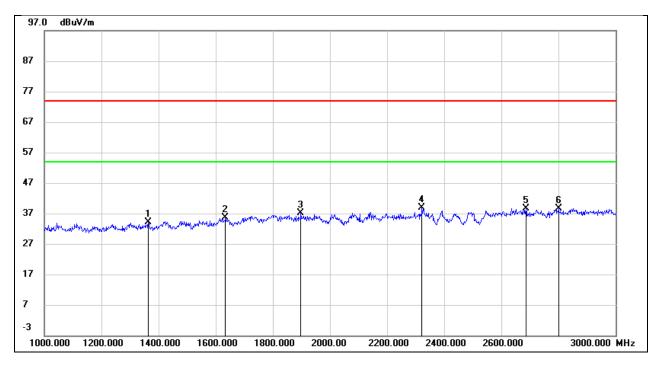
Test Mode:	SDR 2.4G	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1058.000	46.95	-14.16	32.79	74.00	-41.21	peak
2	1490.000	45.97	-11.94	34.03	74.00	-39.97	peak
3	1724.000	46.57	-10.51	36.06	74.00	-37.94	peak
4	2002.000	47.14	-10.10	37.04	74.00	-36.96	peak
5	2396.000	45.57	-8.60	36.97	74.00	-37.03	peak
6	2950.000	43.81	-6.24	37.57	74.00	-36.43	peak



Test Mode:	SDR 2.4G	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 3.7V

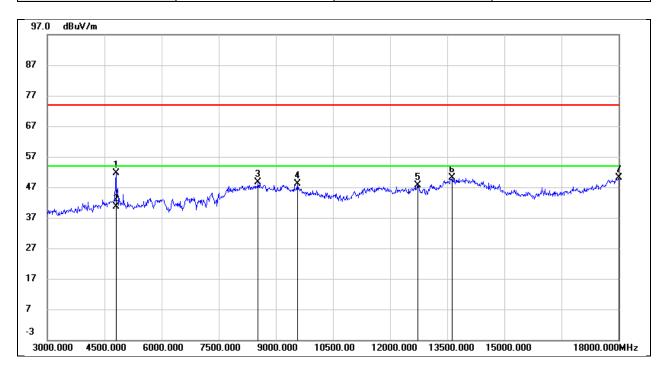


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1364.000	46.46	-12.38	34.08	74.00	-39.92	peak
2	1634.000	46.55	-10.82	35.73	74.00	-38.27	peak
3	1898.000	46.35	-9.29	37.06	74.00	-36.94	peak
4	2322.000	46.88	-8.05	38.83	74.00	-35.17	peak
5	2686.000	44.98	-6.41	38.57	74.00	-35.43	peak
6	2800.000	44.47	-5.82	38.65	74.00	-35.35	peak

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8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

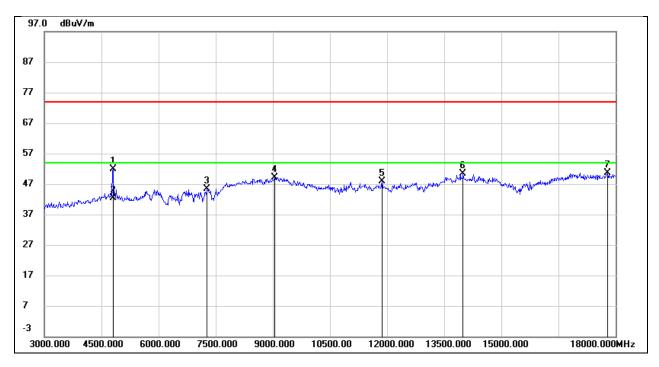
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4800.000	51.25	0.47	51.72	74.00	-22.28	peak
2	4800.000	40.25	0.47	40.72	54.00	-13.28	AVG
3	8535.000	39.44	9.12	48.56	74.00	-25.44	peak
4	9570.000	35.45	12.70	48.15	74.00	-25.85	peak
5	12735.000	28.42	19.33	47.75	74.00	-26.25	peak
6	13635.000	27.51	22.68	50.19	74.00	-23.81	peak
7	18000.000	20.52	29.64	50.16	74.00	-23.84	peak



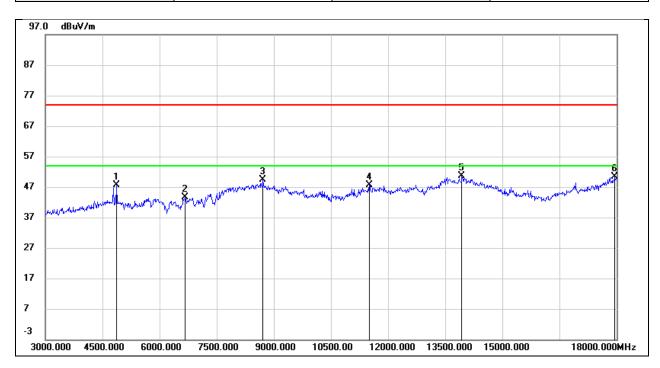
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4800.000	50.45	1.55	52.00	74.00	-22.00	peak
2	4800.000	40.83	1.55	42.38	54.00	-11.62	AVG
3	7275.000	37.64	7.67	45.31	74.00	-28.69	peak
4	9045.000	38.47	10.75	49.22	74.00	-24.78	peak
5	11865.000	30.47	17.37	47.84	74.00	-26.16	peak
6	13995.000	28.29	22.18	50.47	74.00	-23.53	peak
7	17790.000	24.29	26.25	50.54	74.00	-23.46	peak



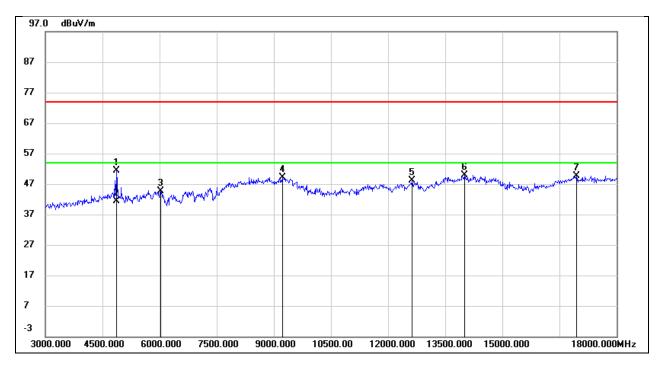
Test Mode:	SDR 2.4G	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	46.87	0.65	47.52	74.00	-26.48	peak
2	6675.000	38.18	5.37	43.55	74.00	-30.45	peak
3	8715.000	39.96	9.46	49.42	74.00	-24.58	peak
4	11505.000	29.53	17.99	47.52	74.00	-26.48	peak
5	13935.000	27.14	23.52	50.66	74.00	-23.34	peak
6	17955.000	21.17	29.18	50.35	74.00	-23.65	peak



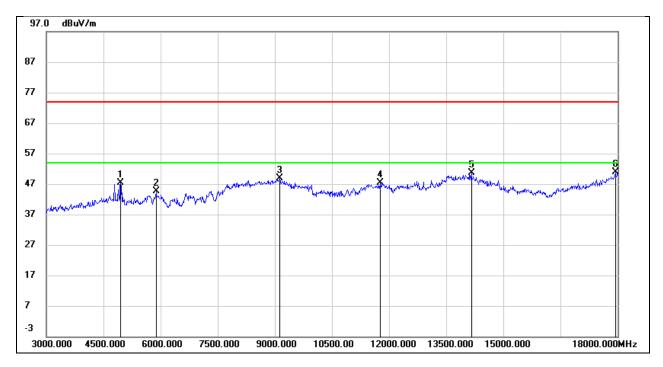
Test Mode:	SDR 2.4G	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	49.63	1.78	51.41	74.00	-22.59	peak
2	4875.000	39.60	1.78	41.38	54.00	-12.62	AVG
3	6030.000	40.46	4.25	44.71	74.00	-29.29	peak
4	9225.000	37.82	11.41	49.23	74.00	-24.77	peak
5	12630.000	29.99	18.07	48.06	74.00	-25.94	peak
6	14010.000	27.75	22.20	49.95	74.00	-24.05	peak
7	16950.000	24.52	25.12	49.64	74.00	-24.36	peak



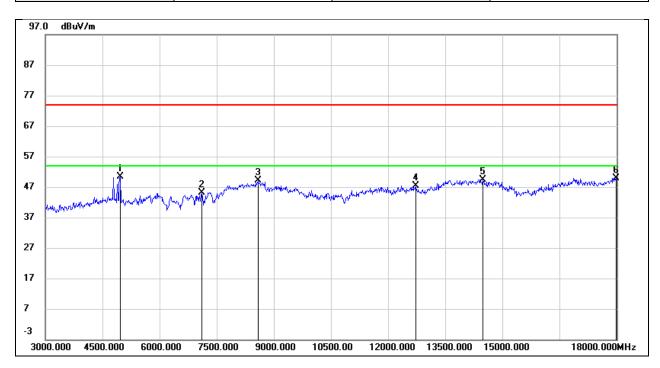
Test Mode:	SDR 2.4G	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	46.59	0.83	47.42	74.00	-26.58	peak
2	5880.000	41.77	2.90	44.67	74.00	-29.33	peak
3	9135.000	38.17	10.80	48.97	74.00	-25.03	peak
4	11760.000	29.07	18.42	47.49	74.00	-26.51	peak
5	14160.000	27.18	23.45	50.63	74.00	-23.37	peak
6	17940.000	21.74	29.03	50.77	74.00	-23.23	peak



Test Mode:	SDR 2.4G	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 3.7V

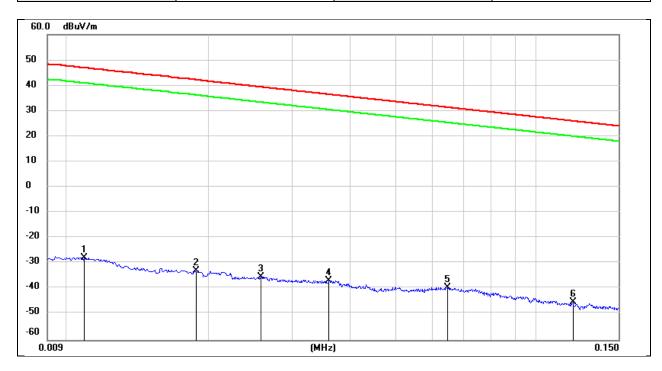


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4965.000	48.45	2.04	50.49	74.00	-23.51	peak
2	7110.000	37.62	7.46	45.08	74.00	-28.92	peak
3	8580.000	39.35	9.82	49.17	74.00	-24.83	peak
4	12720.000	29.08	18.26	47.34	74.00	-26.66	peak
5	14490.000	27.86	21.60	49.46	74.00	-24.54	peak
6	17985.000	22.59	27.35	49.94	74.00	-24.06	peak

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8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

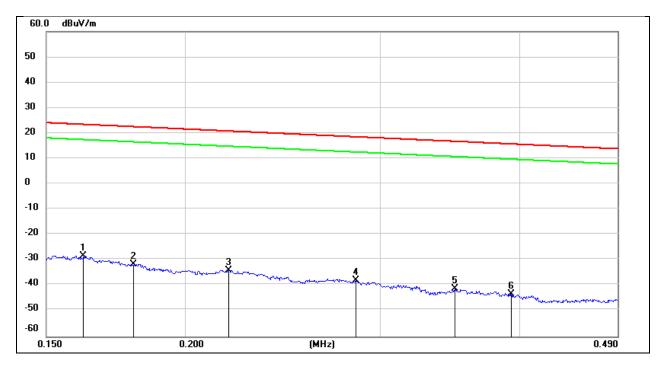
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0108	73.78	-101.39	-27.61	46.93	-79.11	-4.57	-74.54	peak
2	0.0188	68.64	-101.35	-32.71	42.12	-84.21	-9.38	-74.83	peak
3	0.0258	66.10	-101.37	-35.27	39.37	-86.77	-12.13	-74.64	peak
4	0.0359	64.72	-101.42	-36.70	36.50	-88.20	-15.00	-73.20	peak
5	0.0646	62.03	-101.54	-39.51	31.40	-91.01	-20.10	-70.91	peak
6	0.1200	56.50	-101.73	-45.23	26.02	-96.73	-25.48	-71.25	peak



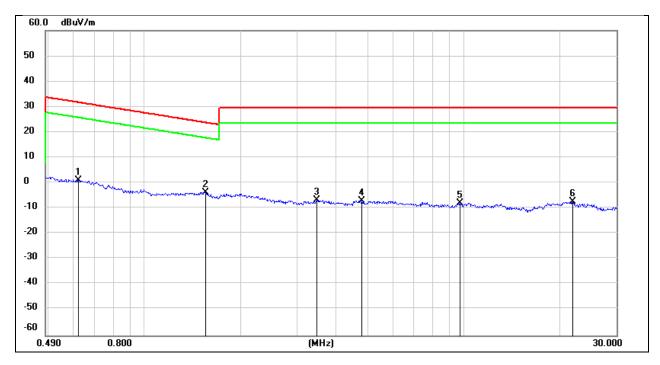
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1621	73.42	-101.65	-28.23	23.41	-79.73	-28.09	-51.64	peak
2	0.1800	70.12	-101.68	-31.56	22.50	-83.06	-29.00	-54.06	peak
3	0.2190	67.77	-101.75	-33.98	20.79	-85.48	-30.71	-54.77	peak
4	0.2847	63.92	-101.83	-37.91	18.51	-89.41	-32.99	-56.42	peak
5	0.3497	60.79	-101.91	-41.12	16.73	-92.62	-34.77	-57.85	peak
6	0.3933	58.72	-101.96	-43.24	15.71	-94.74	-35.79	-58.95	peak



Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V

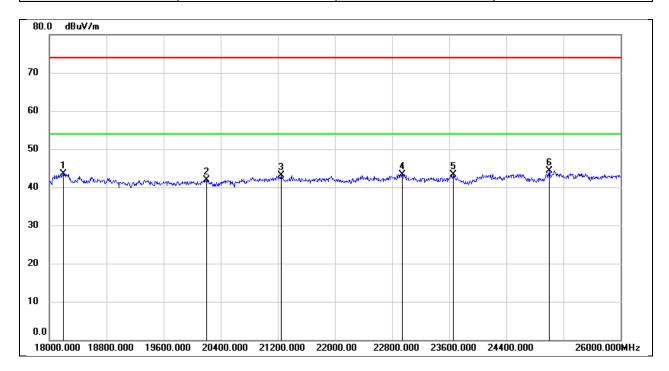


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.6219	63.10	-62.09	1.01	31.73	-50.49	-19.77	-30.72	peak
2	1.5524	58.35	-62.02	-3.67	23.78	-55.17	-27.72	-27.45	peak
3	3.4704	54.85	-61.46	-6.61	29.54	-58.11	-21.96	-36.15	peak
4	4.7983	54.55	-61.45	-6.90	29.54	-58.40	-21.96	-36.44	peak
5	9.7263	52.94	-60.84	-7.90	29.54	-59.40	-21.96	-37.44	peak
6	21.9143	53.22	-60.69	-7.47	29.54	-58.97	-21.96	-37.01	peak

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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

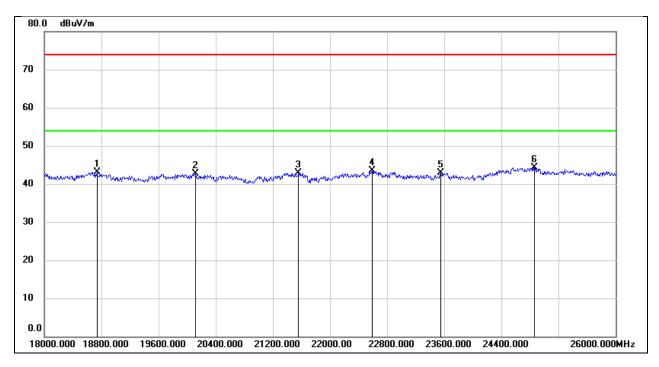
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18192.000	48.98	-5.51	43.47	74.00	-30.53	peak
2	20200.000	47.54	-5.58	41.96	74.00	-32.04	peak
3	21248.000	47.79	-4.77	43.02	74.00	-30.98	peak
4	22944.000	46.89	-3.49	43.40	74.00	-30.60	peak
5	23656.000	46.44	-3.17	43.27	74.00	-30.73	peak
6	25000.000	46.36	-2.10	44.26	74.00	-29.74	peak



Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V

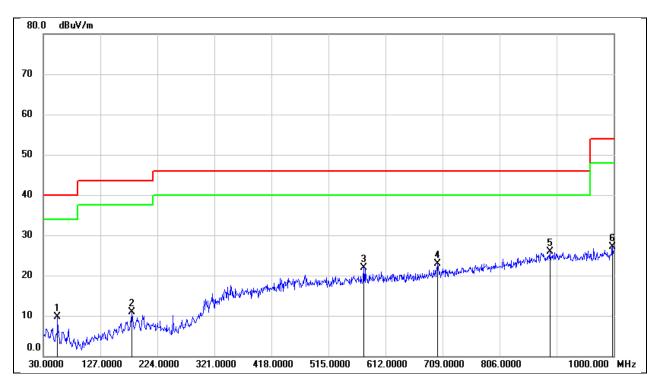


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18736.000	48.51	-5.41	43.10	74.00	-30.90	peak
2	20120.000	48.22	-5.53	42.69	74.00	-31.31	peak
3	21560.000	47.49	-4.60	42.89	74.00	-31.11	peak
4	22592.000	47.23	-3.81	43.42	74.00	-30.58	peak
5	23552.000	45.97	-3.15	42.82	74.00	-31.18	peak
6	24864.000	46.53	-2.23	44.30	74.00	-29.70	peak

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8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

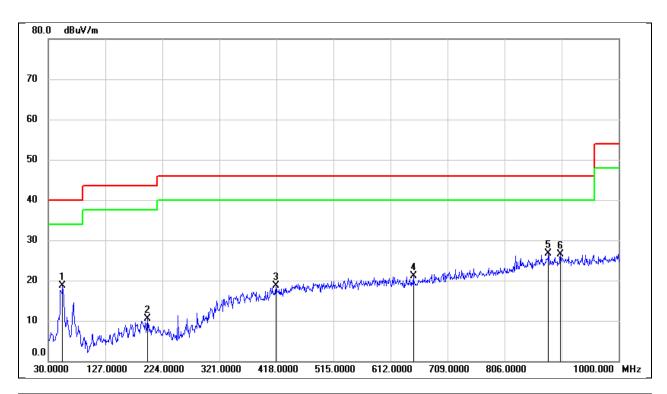
Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	54.2500	24.76	-15.03	9.73	40.00	-30.27	QP
2	180.3500	22.71	-11.84	10.87	43.50	-32.63	QP
3	575.1400	28.26	-6.36	21.90	46.00	-24.10	QP
4	700.2700	27.17	-4.22	22.95	46.00	-23.05	QP
5	891.3600	26.42	-0.58	25.84	46.00	-20.16	QP
6	998.0600	27.19	-0.14	27.05	54.00	-26.95	QP



Test Mode:	SDR 2.4G	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	54.2500	33.70	-15.03	18.67	40.00	-21.33	QP
2	198.7800	22.75	-12.25	10.50	43.50	-33.00	QP
3	417.0300	27.97	-9.17	18.80	46.00	-27.20	QP
4	650.8000	26.74	-5.57	21.17	46.00	-24.83	QP
5	880.6900	27.49	-0.78	26.71	46.00	-19.29	QP
6	901.0600	26.92	-0.44	26.48	46.00	-19.52	QP



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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

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AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

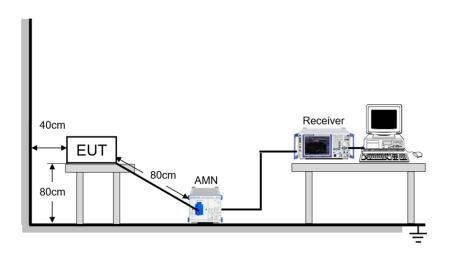
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.1 ℃	Relative Humidity	61.2%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

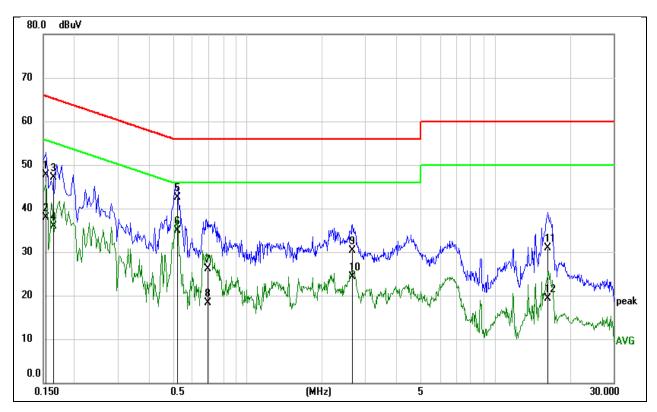
			l
Test Date	February 21, 2025	Test By	Johnson Liu
HEST Date	IFEDIUALV Z I. ZUZU	I I ESL DV	IJUHISUH LIU - I
	,		



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TEST RESULTS

Test Mode:	SRD 2.4G	Frequency(MHz):	2402
Line	Line		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1538	37.88	9.73	47.61	65.79	-18.18	QP
2	0.1538	28.18	9.73	37.91	55.79	-17.88	AVG
3	0.1658	37.35	9.71	47.06	65.17	-18.11	QP
4	0.1658	26.20	9.71	35.91	55.17	-19.26	AVG
5	0.5224	32.78	9.64	42.42	56.00	-13.58	QP
6	0.5224	25.17	9.64	34.81	46.00	-11.19	AVG
7	0.6913	16.51	9.63	26.14	56.00	-29.86	QP
8	0.6913	8.68	9.63	18.31	46.00	-27.69	AVG
9	2.6614	20.49	9.73	30.22	56.00	-25.78	QP
10	2.6614	14.53	9.73	24.26	46.00	-21.74	AVG
11	16.3982	21.24	9.74	30.98	60.00	-29.02	QP
12	16.3982	9.51	9.74	19.25	50.00	-30.75	AVG

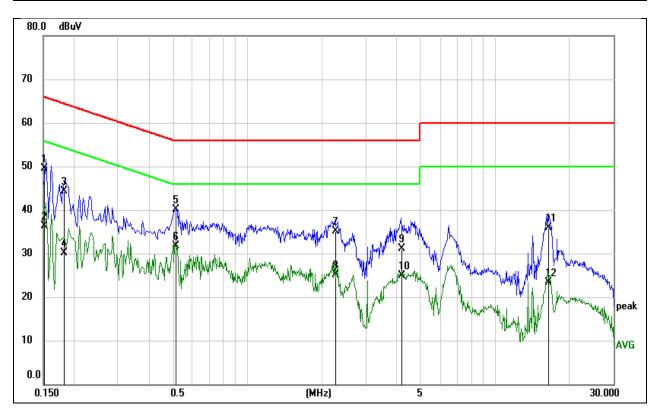
Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.



Test Mode:	SRD 2.4G	Frequency(MHz):	2402
Line:	Neutral		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1508	39.68	9.74	49.42	65.96	-16.54	QP
2	0.1508	26.54	9.74	36.28	55.96	-19.68	AVG
3	0.1833	34.60	9.67	44.27	64.33	-20.06	QP
4	0.1833	20.50	9.67	30.17	54.33	-24.16	AVG
5	0.5175	30.54	9.64	40.18	56.00	-15.82	QP
6	0.5175	22.16	9.64	31.80	46.00	-14.20	AVG
7	2.2640	25.31	9.74	35.05	56.00	-20.95	QP
8	2.2640	15.35	9.74	25.09	46.00	-20.91	AVG
9	4.1945	21.41	9.73	31.14	56.00	-24.86	QP
10	4.1945	15.16	9.73	24.89	46.00	-21.11	AVG
11	16.4543	26.09	9.74	35.83	60.00	-24.17	QP
12	16.4543	13.53	9.74	23.27	50.00	-26.73	AVG

Note

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.



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11. TEST DATA

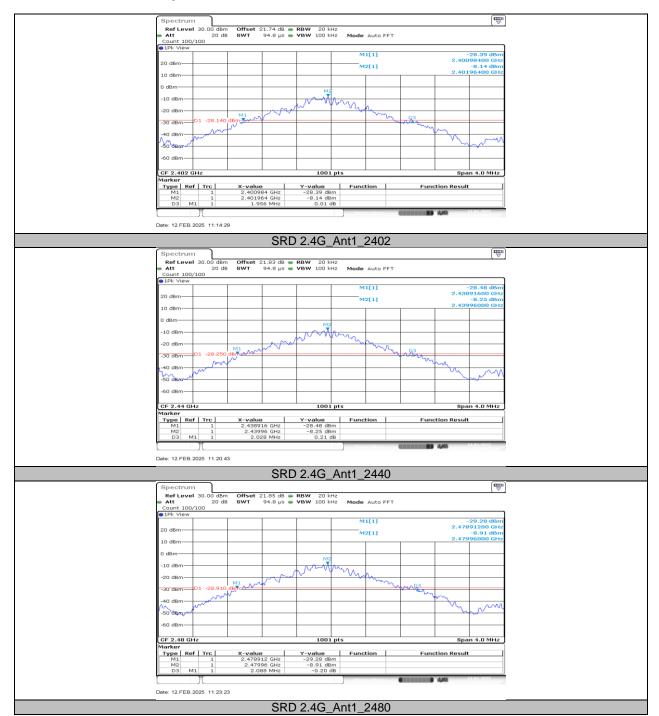
11.1. APPENDIX A: 20DB EMISSION BANDWIDTH

11.1.1. Test Result

	Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
ſ			2402	1.96	2400.98	2402.94	PASS
	SRD 2.4G	Ant1	2440	2.03	2438.92	2440.94	PASS
			2480	2.09	2478.91	2481.00	PASS



11.1.2. Test Graphs





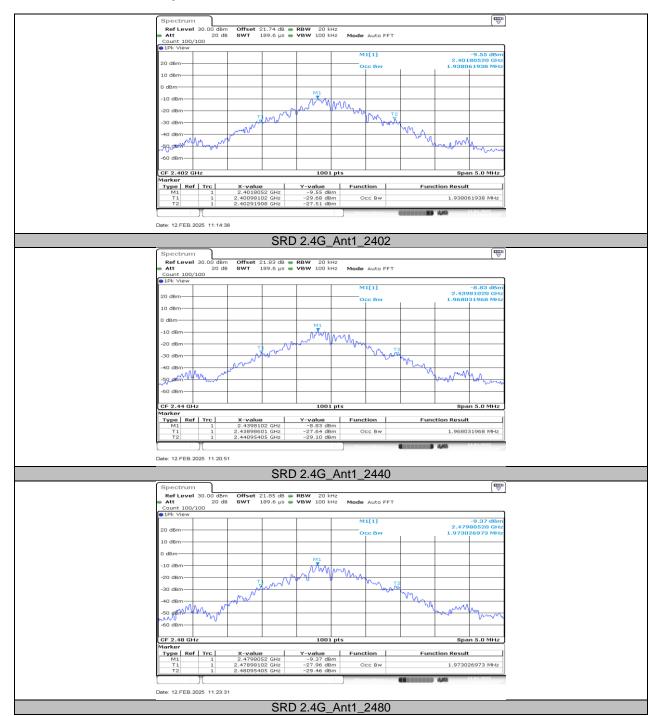
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11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
CDD	Ant1	2402	1.938	2400.9810	2402.9191	PASS
SRD		2440	1.968	2438.9860	2440.9540	PASS
2.4G		2480	1.973	2478.9810	2480.9540	PASS



11.2.2. Test Graphs





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11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER 11.3.1. Test Result

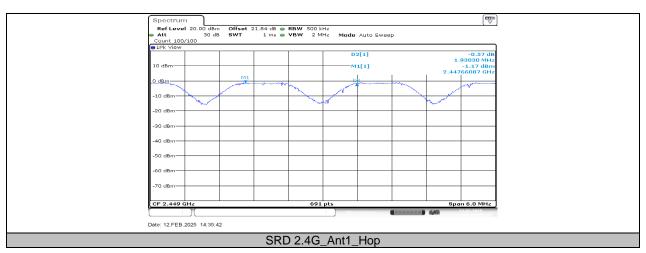
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
SRD 2.4G		2402	0.32	≤20.97	PASS
	Ant1	2440	0.36	≤20.97	PASS
		2480	-0.07	≤20.97	PASS



11.4. APPENDIX D: CARRIER FREQUENCY SEPARATION 11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
SRD 2.4G	Ant1	Нор	1.9303	≥1.393	PASS

11.4.2. Test Graphs

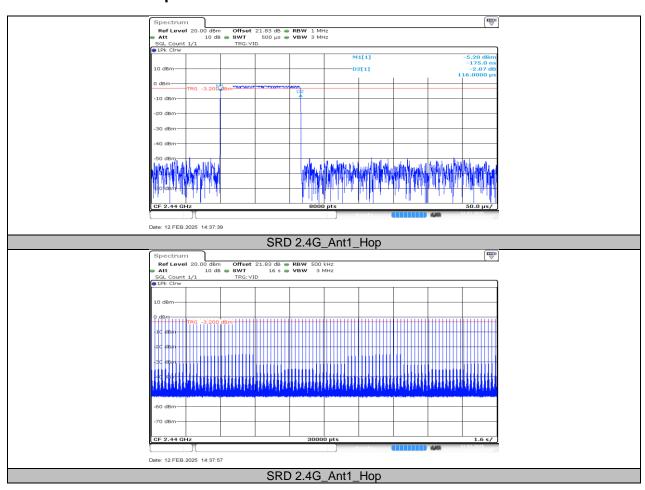




11.5. APPENDIX E: TIME OF OCCUPANCY 11.5.1. Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
SRD 2.4G	Ant1	Нор	0.116	99	0.011	≤0.4	PASS

11.5.2. Test Graphs





11.6. APPENDIX F: NUMBER OF HOPPING CHANNELS 11.6.1. Test Result

Test Mode	Test Mode Antenna Frequency[MHz]		Result[Num]	Limit[Num]	Verdict
SRD 2.4G	Ant1	Нор	40	≥15	PASS

11.6.2. Test Graphs





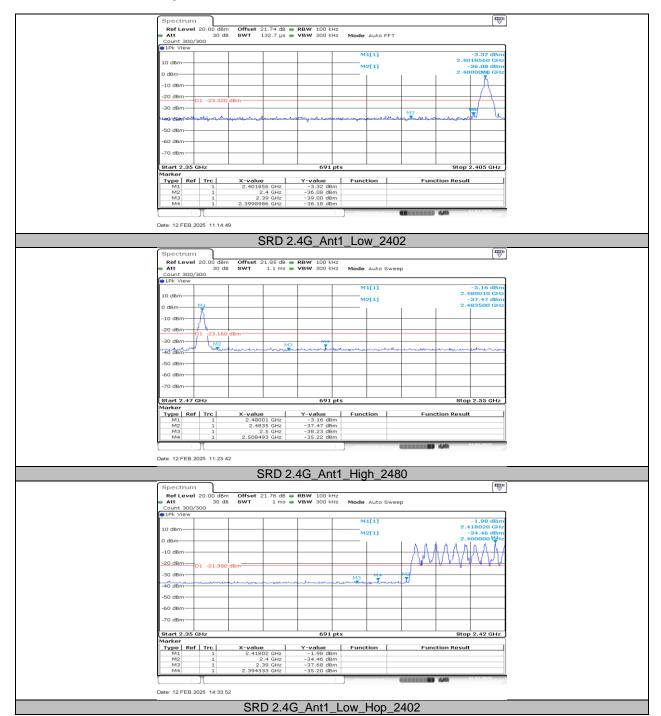
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11.7. APPENDIX G: BAND EDGE MEASUREMENTS 11.7.1. Test Result

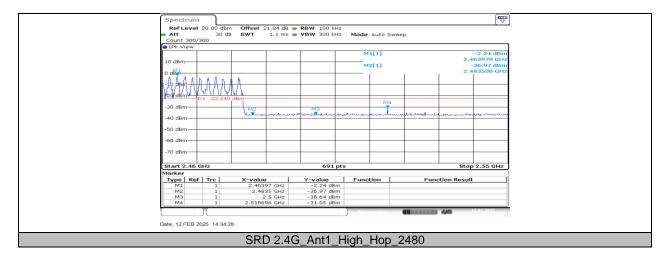
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
	Ant1	Low	2402	-3.32	-36.18	≤-23.32	PASS
SRD 2.4G		High	2480	-3.16	-35.22	≤-23.16	PASS
SRD 2.4G		Low	Hop_2402	-1.98	-35.2	≤-21.98	PASS
		High	Hop_2480	-2.24	-31.05	≤-22.24	PASS



11.7.2. Test Graphs









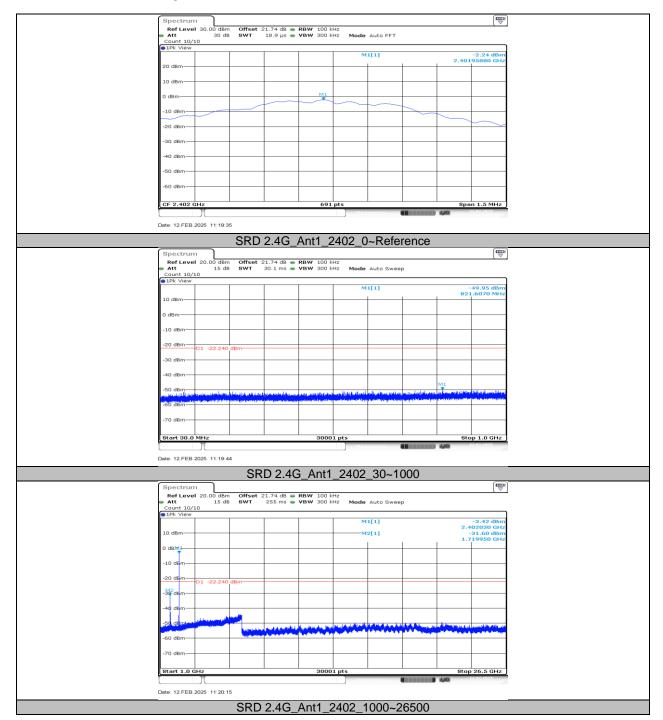
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11.8. APPENDIX H: CONDUCTED SPURIOUS EMISSION 11.8.1. Test Result

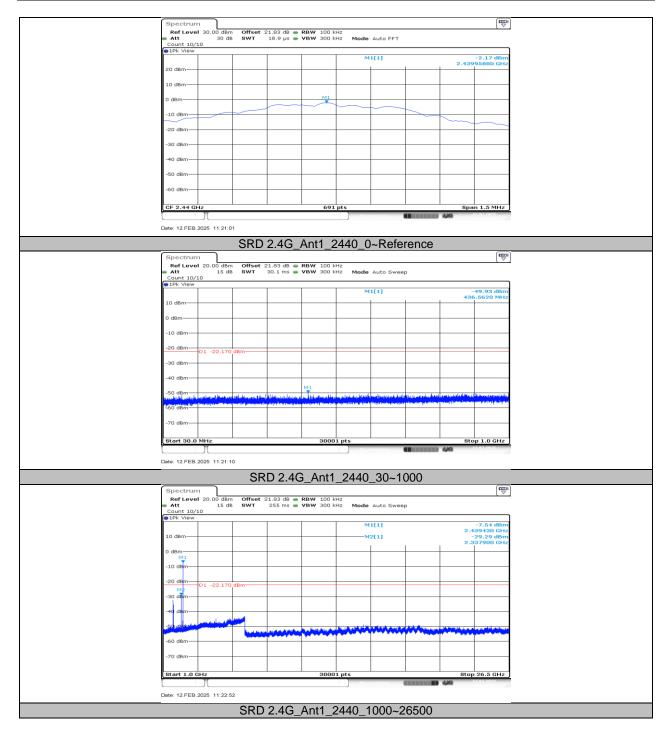
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	-2.24		PASS
		2402	30~1000	-49.95	≤-22.24	PASS
			1000~26500	-31.6	≤-22.24	PASS
			Reference	-2.17		PASS
SRD 2.4G	Ant1	2440	30~1000	-49.93	≤-22.17	PASS
			1000~26500	-29.29	≤-22.17	PASS
			Reference	-2.72		PASS
		2480	30~1000	-50.35	≤-22.72	PASS
			1000~26500	-29.77	≤-22.72	PASS



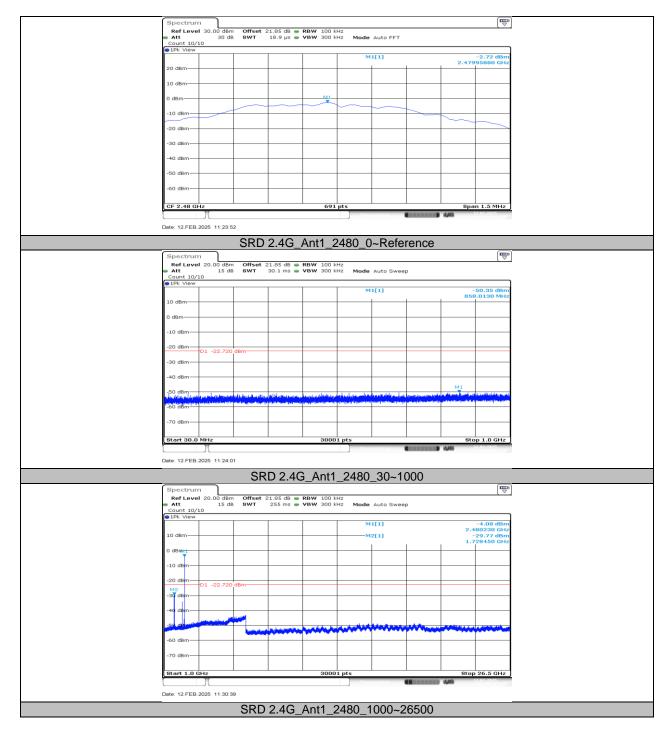
11.8.2. Test Graphs











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11.9. APPENDIX I: DUTY CYCLE 11.9.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
SRD 2.4G	0.11	4.05	0.0272	2.72	15.66	9.09	10

Note:

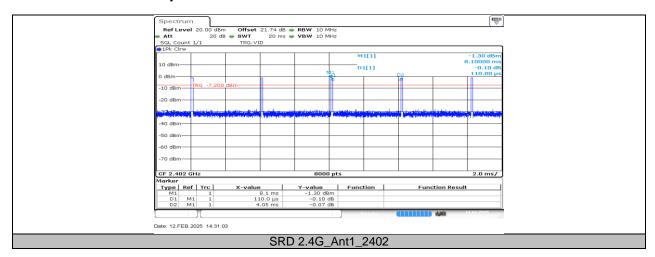
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.9.2. Test Graphs



END OF REPORT