



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

# TEST REPORT

For

# **Skylight Frame 2**

## MODEL NUMBER: 102-FRM

## REPORT NUMBER: 4791339609-2-RF-2

## ISSUE DATE: August 9, 2024

## FCC ID:2BF8S-102-2 IC:26595-1022

Prepared for

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Prepared by

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	August 9, 2024	Initial Issue	

# **Summary of Test Results**

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

\*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

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



# CONTENTS

1. A	1. ATTESTATION OF TEST RESULTS6		
2. TE	EST METHODOLOGY	7	
3. F/	ACILITIES AND ACCREDITATION	7	
4. C/	ALIBRATION AND UNCERTAINTY	8	
4.1.	MEASURING INSTRUMENT CALIBRATION	8	
4.2.	MEASUREMENT UNCERTAINTY	8	
5. EC	QUIPMENT UNDER TEST	9	
5.1.	DESCRIPTION OF EUT	9	
5.2.	CHANNEL LIST	9	
5.3.	MAXIMUM POWER	9	
5.4.	TEST CHANNEL CONFIGURATION		
5.5.	THE WORSE CASE POWER SETTING PARAMETER		
5.6.	DESCRIPTION OF AVAILABLE ANTENNAS		
5.7.	SUPPORT UNITS FOR SYSTEM TEST	13	
6. M	EASURING EQUIPMENT AND SOFTWARE USED	14	
7. AI	NTENNA PORT TEST RESULTS	17	
7.1.	CONDUCTED OUTPUT POWER		
7.2.	6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH		
7.3.	POWER SPECTRAL DENSITY	20	
7.4.	CONDUCTED BAND EDGE AND SPURIOUS EMISSION	22	
7.5.	DUTY CYCLE	24	
8. R/	ADIATED TEST RESULTS	25	
8.1.	RESTRICTED BANDEDGE		
8.2.	SPURIOUS EMISSIONS(1 GHZ~3 GHZ)	59	
8.3.	SPURIOUS EMISSIONS(3 GHZ~18 GHZ)	65	
8.4.	SPURIOUS EMISSIONS(9 KHZ~30 MHZ)		
8.5.	SPURIOUS EMISSIONS(18 GHZ~26 GHZ)		
8.6.	SPURIOUS EMISSIONS(30 MHZ~1 GHZ)		
9. AI	NTENNA REQUIREMENT	108	
10.	AC POWER LINE CONDUCTED EMISSION	109	
11.	TEST DATA	113	



<i>11.1.</i> 11.1.1. 11.1.2.	APPENDIX A: DTS BANDWIDTH Test Result Test Graphs	113
<i>11.2.</i> 11.2.1. 11.2.2.	APPENDIX B: OCCUPIED CHANNEL BANDWIDTH Test Result Test Graphs	120
<i>11.3.</i> 11.3.1.	APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER Test Result	
<i>11.4.</i> 11.4.1. 11.4.2.	APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY Test Result Test Graphs	128
<i>11.5.</i> 11.5.1. 11.5.2.	APPENDIX E: BAND EDGE MEASUREMENTS Test Result Test Graphs	135
<i>11.6.</i> 11.6.1. 11.6.2.	APPENDIX F: CONDUCTED SPURIOUS EMISSION Test Result Test Graphs	140
<i>11.7.</i> 11.7.1. 11.7.2.	APPENDIX G: DUTY CYCLE Test Result Test Graphs	159



**TEST RESULTS** 

Pass

# 1. ATTESTATION OF TEST RESULTS

#### Applicant Information

Company Name:	Glimpse LLC	
Address:	101a Clay Street #144, San Francisco, CA 94111, U	ISA

### Manufacturer Information

Company Name:	Glimpse LLC
Address:	101a Clay Street #144, San Francisco, CA 94111, USA

### **EUT Information**

EUT Name:	Skylight Frame 2
Model:	102-FRM
Brand:	Skylight
Sample Received Date:	June 19, 2024
Sample Status:	Normal
Sample ID:	7327295
Date of Tested:	August 9, 2024 to August 9, 2024

### **APPLICABLE STANDARDS**

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

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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, KDB 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

	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)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	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.
	VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	· ·
	Chamber D, the VCCI registration No. is G-20192 and R-20202
	Shielding Room B, the VCCI registration No. is C-20153 and T-20155

## 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.



# 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%	
DTS and 99% Occupied Bandwidth	±0.0196%	
Maximum Conducted Output Power	±0.686 dB	
Maximum Power Spectral Density Level	±0.743 dB	
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.		

# 5. EQUIPMENT UNDER TEST

# 5.1. DESCRIPTION OF EUT

EUT Name	Skylight Frame 2
Model	102-FRM
HVIN	102-FRM-2

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/11n HT40/ax HE20/ax HE40
Normal Test Voltage:	DC 5 V via adapter

# 5.2. CHANNEL LIST

	Channel List For Bandwidth=20 MHz										
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
1	2412	4	2427	7	2442	10	2457				
2	2417	5	2432	8	2447	11	2462				
3	2422	6	2437	9	2452	/	/				

	Channel List For Bandwidth=40 MHz										
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
3	2422	5	2432	7	2442	9	2452				
4	2427	6	2437	8	2447	/	/				

# 5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	15.78	19.04
g	2412 ~ 2462	1-11[11]	13.75	17.01
n HT20	2412 ~ 2462	1-11[11]	12.22	15.48
n HT40	2422 ~ 2452	3-9[7]	12.31	15.57
ax HE20	2412 ~ 2462	1-11[11]	12.12	15.38
ax HE40	2422 ~ 2452	3-9[7]	16.57	19.83

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# 5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz



The W	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band										
Test Softw	/are		ADB command								
	Transmit		Test Channel								
Modulation Mode	Antenna	1	NCB: 20MH	Iz	NCB: 40MHz						
Wode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9				
802.11b	1	17	17	17							
802.11g	1	14	14	13		/					
802.11n HT20	1	13	13	13							
802.11n HT40	1		/		15.5 15.5 15.5						
802.11ax HE20	1	13 13 13 /									
802.11ax HE40	1	/ 19 19									

# 5.5. THE WORSE CASE POWER SETTING PARAMETER

# WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11g mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0 802.11ax HE20 mode: MCS0 802.11ax HE40 mode: MCS0

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.



# 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	FPC antenna	3.26

Test Mode	Transmit and Receive Mode	Description				
IEEE 802.11b	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
IEEE 802.11g	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
IEEE 802.11n HT20	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
IEEE 802.11n HT40	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
IEEE 802.11ax HE20	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
IEEE 802.11ax HE40	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.				
Note: 1.BLE&WLAN 2.4G, BLE & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)						



# 5.7. SUPPORT UNITS FOR SYSTEM TEST

#### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	E14	/

#### **I/O CABLES**

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

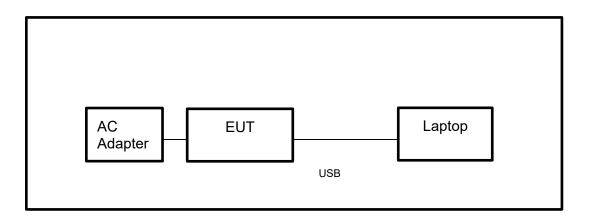
#### ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	/	TPQ- 228F050300UW01	Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5 V, 3A

#### TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

#### SETUP DIAGRAM FOR TESTS





# 6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System									
Equipment	Manufac	turer	Model	No.	Serial No.	Last (	Cal.	Due. Date	
Power sensor, Power M	leter	R&S	5	OSP1	20	100921	Mar.25,	2024	Mar.24,2025
Vector Signal General	tor	R&S	5	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator		R&S	5	SMB10	00A	178553	Oct.12,	2023	Oct.11, 2024
Signal Analyzer		R&S	5	FSV4	10	101118	Oct.12,	2023	Oct.11, 2024
				Softwa	re		1		
Description		Ν	<i>l</i> anuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em Rol	hde &	Schwai	z	EMC	32		10.60.10
Tonsend RF Test System									
Equipment	Man	ufacturer	Мос	del No.	S	Serial No.	Last (	Cal.	Due. Date
Wideband Radio Communication Tester		R&S	СМ	W500	155523		Oct.12, 2023		Oct.11, 2024
Wireless Connectivity Tester		R&S	СМ	W270	120	1.0002N75- 102	Sep.25,	2023	Sep.24, 2024
PXA Signal Analyzer	Ke	eysight	N9	030A	ΜY	′55410512	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysight	N5	182B	ΜY	⁄56200284	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysight	N5	5172B	MΥ	⁄56200301	Oct.12,	2023	Oct.11, 2024
DC power supply	Ke	eysight	E3	642A	MΥ	′55159130	Oct.12,	2023	Oct.11, 2024
Temperature & Humidity Chamber	SAN	MOOD	SG-8	30-CC-2		2088	Oct.12,	2023	Oct.11, 2024
Attenuator	A	glient	84	495B	28	14a12853	Oct.12,	2023	Oct.11, 2024
RF Control Unit	То	onscend JS(		)806-2	23E	380620666	Mar.25,	2024	Mar.24,2025
				Softwa	re				
Description		Manufact	urer			Name			Version
Tonsend SRD Test Syst	tem	Tonser	nd	JS1	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	Oct.13, 2023	Oct.12, 2024							
Two-Line V- Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024							
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024							
		So	ftware									
I	Description		Manufacturer	Name	Version							
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1							

	Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	/	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug.02, 2021	June 28, 2024	June 27, 2027
Preamplifier	HP	8447D	2944A09099	/	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	/	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130939	/	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	/	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	June 30, 2024	June 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307- 00003	/	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308- 00002	/	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	80000	/	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	/	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10- 2700-3000- 18000- 40SS	23	/	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5- 40SS	4	/	Oct.12, 2023	Oct.11, 2024

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	Software		
Description	Manufacturer	Name	Version
Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024



# 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)(3) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

### TEST PROCEDURE

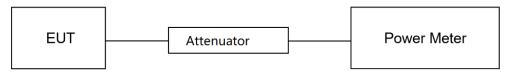
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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 average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding [10 log (1 / D)], where D is the duty cycle.

### TEST SETUP



#### TEST ENVIRONMENT

Temperature	<b>28</b> ℃	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

#### TEST DATE / ENGINEER

Test Date July 4, 2024 Test By Bairong Liu	
--	--

#### TEST RESULTS

Please refer to section "Test Data" - Appendix C



# 7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### **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)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5	
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5	

### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RR///	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
IV BW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

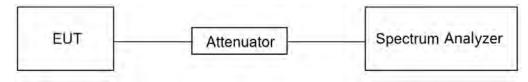
a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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### TEST SETUP



### TEST ENVIRONMENT

Temperature	<b>28</b> ℃	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

### TEST DATE / ENGINEER

Test Date	July 4, 2024	Test By	Bairong Liu
	• <b>j</b> .,_•	· · - J	

### TEST RESULTS

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



# 7.3. POWER SPECTRAL DENSITY

### 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 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.5.

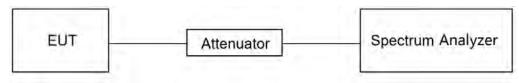
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	≥3 × RBW
Span	1.5 x OBW bandwidth
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### TEST SETUP



#### TEST ENVIRONMENT

Temperature	<b>28</b> ℃	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

### TEST DATE / ENGINEER

Test Date	July 4, 2024	Test By	Bairong Liu
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## TEST RESULTS

Please refer to section "Test Data" - Appendix D



# 7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

## TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

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.

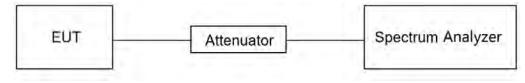
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

13090	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.

Change the settings for emission level measurement:

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 requirements specified in 11.11.

### TEST SETUP



## TEST ENVIRONMENT

Temperature	<b>28</b> ℃	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V



#### TEST DATE / ENGINEER

Test Date	July 4, 2024	Test By	Bairong Liu
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### TEST RESULTS

Please refer to section "Test Data" - Appendix E



# 7.5. DUTY CYCLE

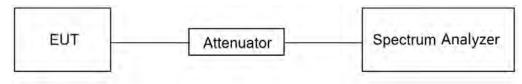
# LIMITS

None; for reporting purposes only.

## TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

## TEST SETUP



### TEST ENVIRONMENT

Temperature	<b>28</b> ℃	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

### TEST DATE / ENGINEER

Test Date July 4, 2024 Test By Bairong Liu
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### TEST RESULTS

Please refer to section "Test Data" - Appendix G



# 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 radia	ted outside of the specified frequency	/ bands above 30 I	MHz
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Streng (dBuV/m)	
	, , , , , , , , , , , , , , , , , , ,	Quasi-P	eak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	300	74	54

FCC Emiss	ions radiated outside of the specified f	requency 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 <sup>Note 1</sup>	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 - 3.028	162.0125 - 167.17	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	1660 - 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	
12.57675 - 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 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

Note 1: Certain requency bands instea in table 7 and in bands above 36.6 GH2 are designated for incence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

## 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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. <sup>2</sup>Above 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  $377\Omega$ . 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.



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
VBW	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.

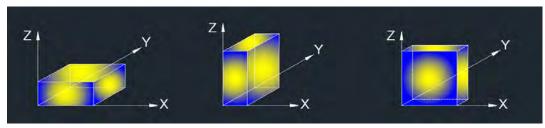
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations 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 7.5. 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.



For Restricted Bandedge:

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. 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 7.5.

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[120π] = 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): 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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.5.

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.



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 7.5.

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  $\sim$  26 GHz): Note:

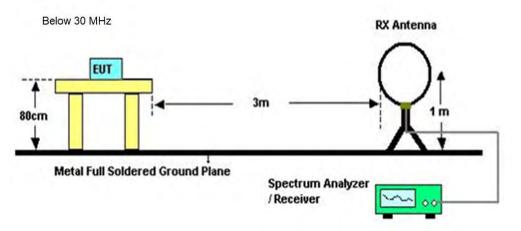
1. Measurement = Reading Level + Correct Factor.

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.

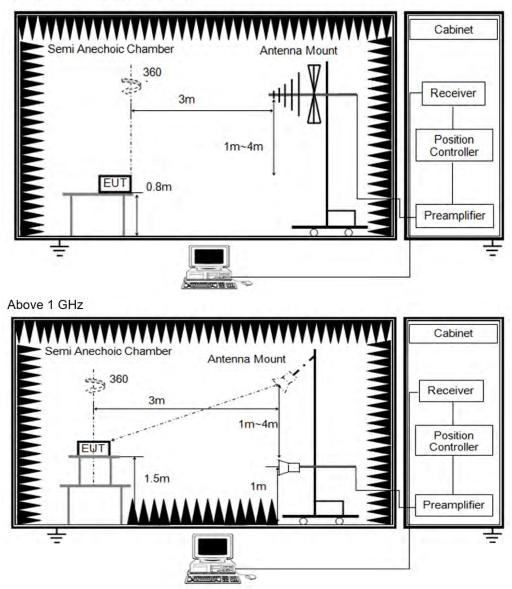
4. All modes have been tested, but only the worst data was recorded in the report.

## TEST SETUP





Below 1 GHz and above 30 MHz



#### **TEST ENVIRONMENT**

Temperature	22.5℃ Relative Humidity		63.1%
Atmosphere Pressure	101kPa	Test Voltage	

#### TEST DATE / ENGINEER

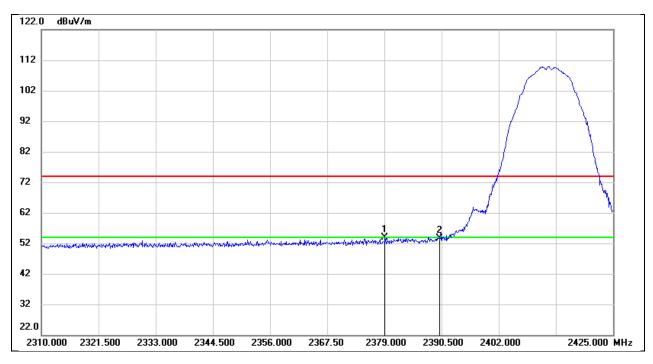
Test Date	August 8, 2024	Test By	Mason Wang
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#### TEST RESULTS



# 8.1. RESTRICTED BANDEDGE

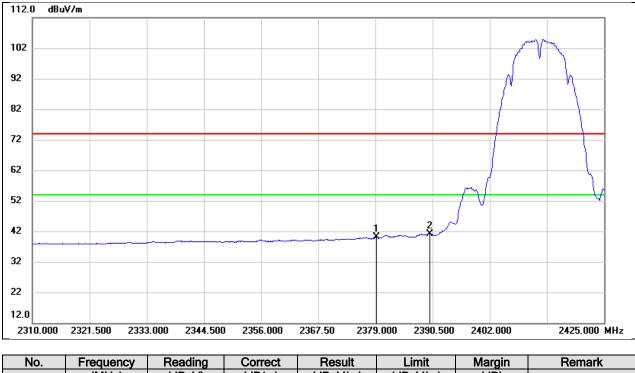
Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2379.115	21.13	32.87	54.00	74.00	-20.00	peak
2	2390.000	20.77	32.92	53.69	74.00	-20.31	peak



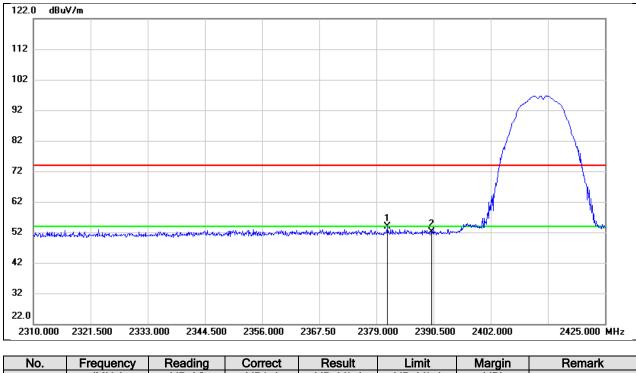
Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ſ	1	2379.115	7.18	32.87	40.05	54.00	-13.95	AVG
	2	2390.000	8.22	32.92	41.14	54.00	-12.86	AVG



Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



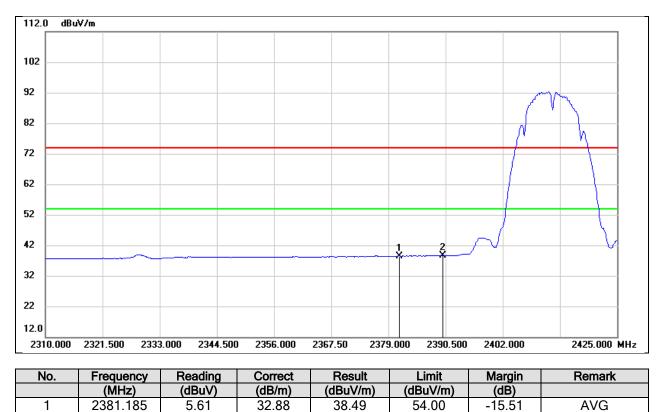
NU.	riequency	neauing	Conect	Nesuit	LIIIIL	warym	Nellialk
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.185	20.94	32.88	53.82	74.00	-20.18	peak
2	2390.000	19.14	32.92	52.06	74.00	-21.94	peak



2

2390.000

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



38.58

54.00

-15.42

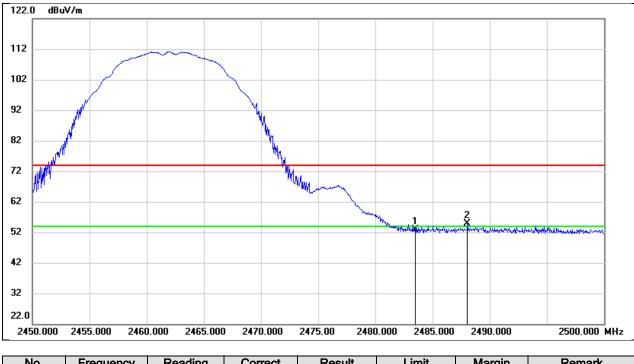
AVG

32.92

5.66



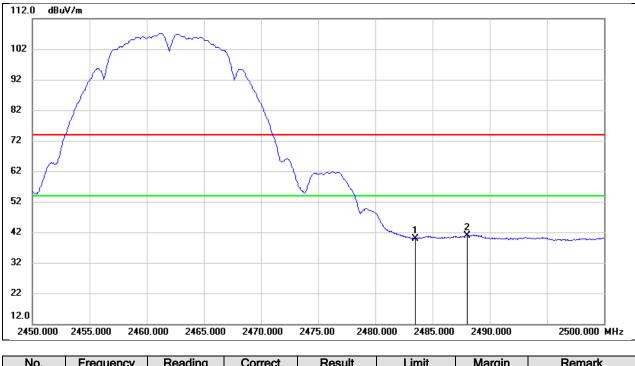
Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.97	32.94	52.91	74.00	-21.09	peak
2	2488.050	22.00	32.94	54.94	74.00	-19.06	peak



Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



INO.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	6.93	32.94	39.87	54.00	-14.13	AVG
2	2488.050	8.06	32.94	41.00	54.00	-13.00	AVG

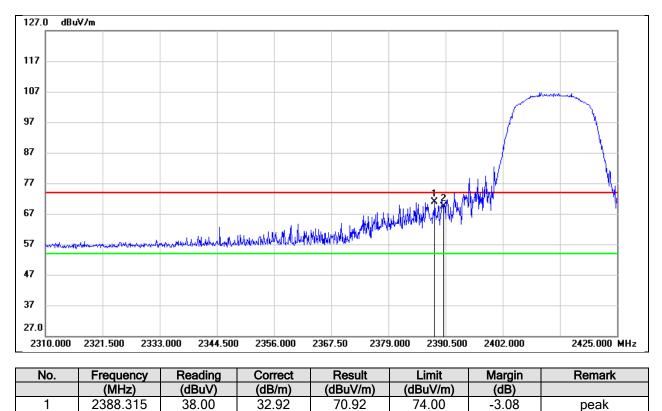


2390.000

36.42

32.92

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



69.34

74.00

-4.66

peak

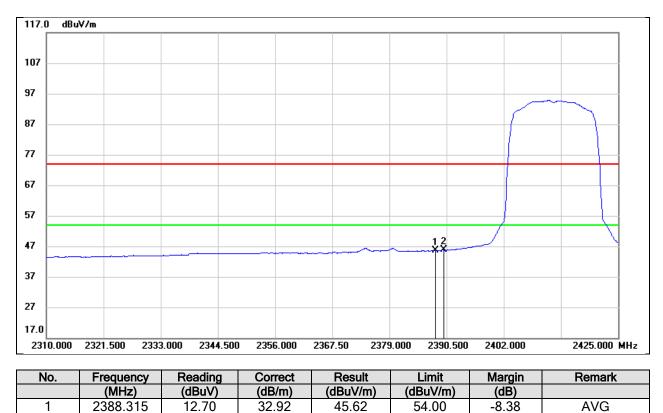


2390.000

12.85

32.92

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



45.77

54.00

-8.23

AVG

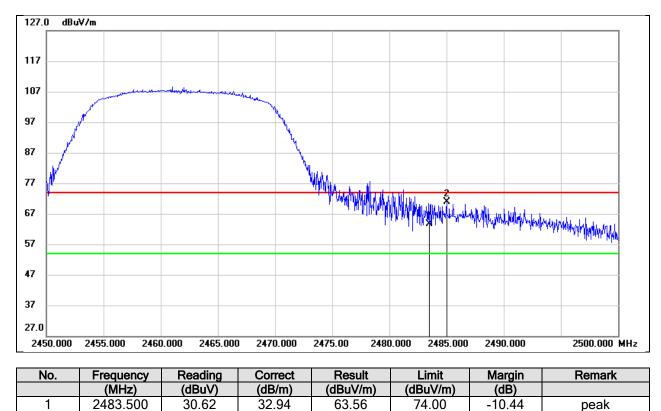


2485.000

37.86

32.94

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



70.80

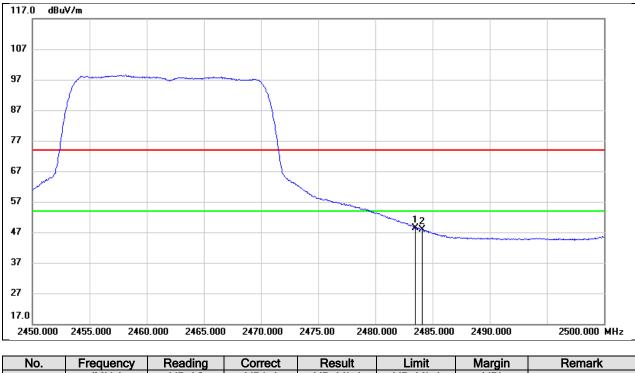
74.00

-3.20

peak



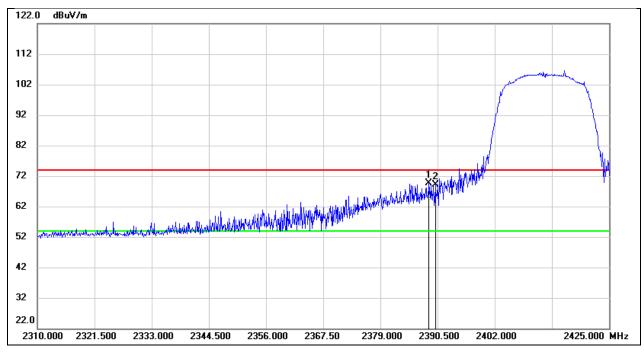
Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



110.	Trequency	ricduling	Ooncol	rtcourt	LIIIIC	Margin	rtomark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.56	32.94	48.50	54.00	-5.50	AVG
2	2484.100	14.96	32.94	47.90	54.00	-6.10	AVG



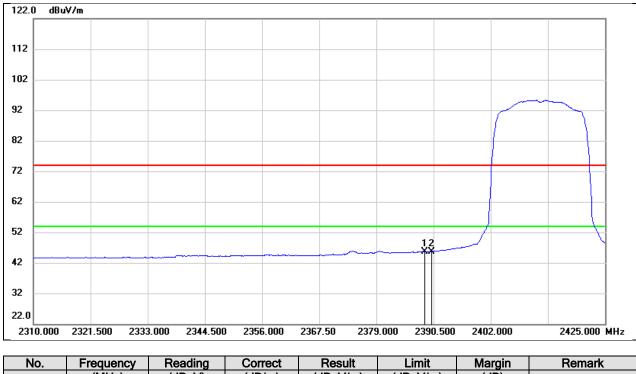
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.775	36.88	32.79	69.67	74.00	-4.33	peak
2	2390.000	36.39	32.79	69.18	74.00	-4.82	peak



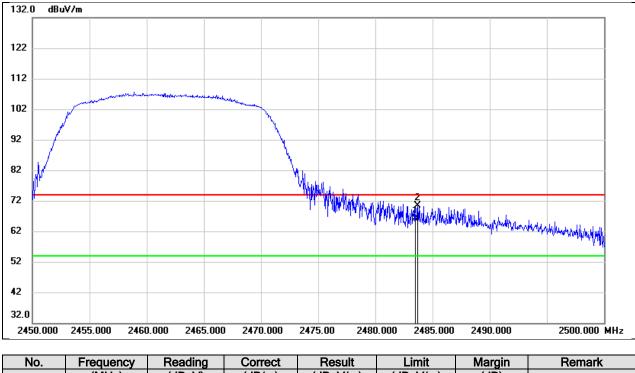
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



NO.	riequency	Reaulity	CONECL	Nesuit	LIIIIL	Inaryin	Nellialk
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.775	12.79	32.79	45.58	54.00	-8.42	AVG
2	2390.000	12.89	32.79	45.68	54.00	-8.32	AVG



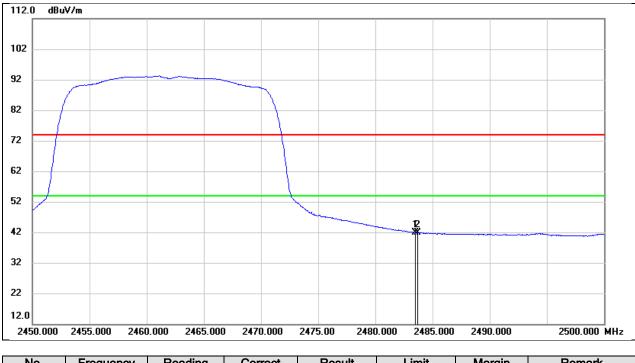
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



L	110.	Troquonoy	riodaling	Concor	1 (Obdit		Margin	T (Official K
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	33.39	32.75	66.14	74.00	-7.86	peak
	2	2483.700	37.52	32.75	70.27	74.00	-3.73	peak



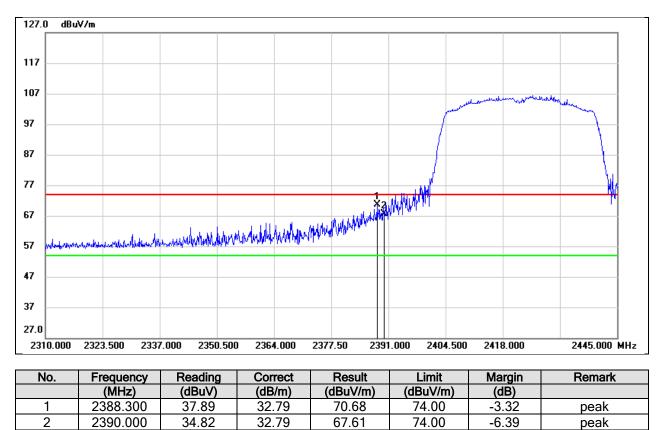
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	9.20	32.75	41.95	54.00	-12.05	AVG
2	2483.700	9.19	32.75	41.94	54.00	-12.06	AVG



Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



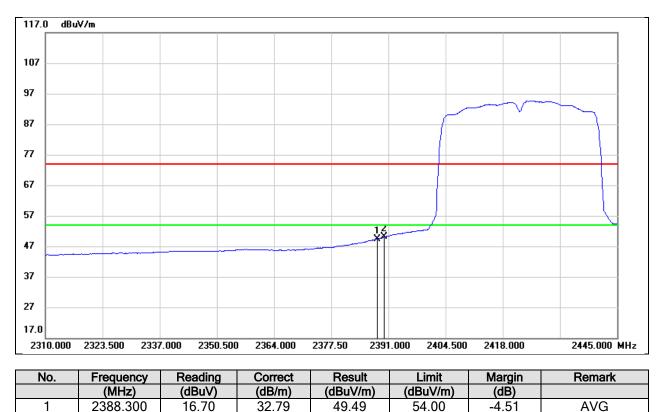


2390.000

17.26

32.79

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



50.05

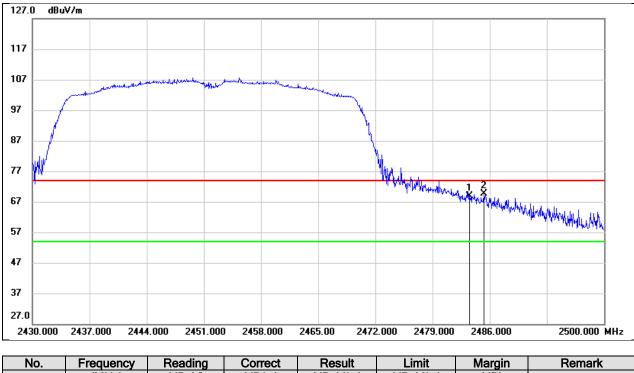
54.00

-3.95

AVG



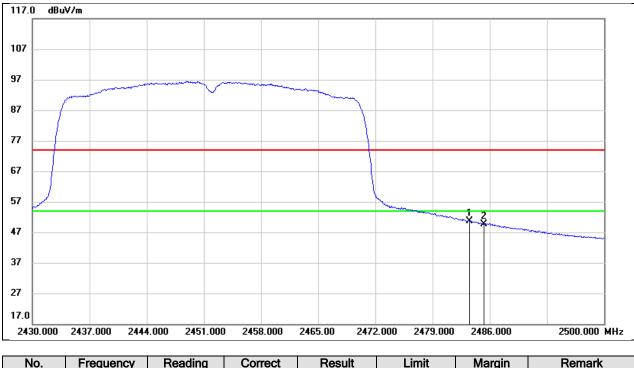
Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



110.	Troquonoy	Itodding		rtooun		margin	T COM CALL
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.23	32.75	68.98	74.00	-5.02	peak
2	2485.300	37.00	32.75	69.75	74.00	-4.25	peak



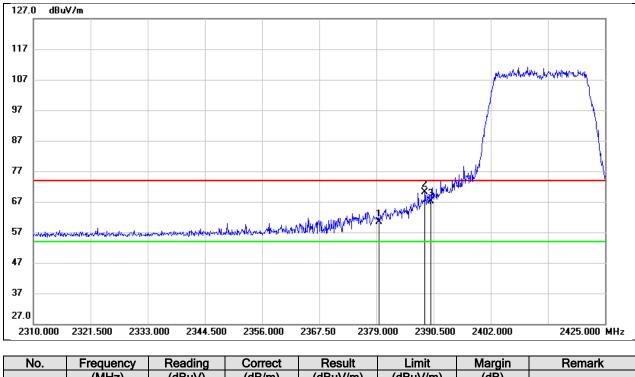
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



INO.	Frequency	Reading	Correct	Result	Limit	margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	17.87	32.75	50.62	54.00	-3.38	AVG
2	2485.300	16.95	32.75	49.70	54.00	-4.30	AVG



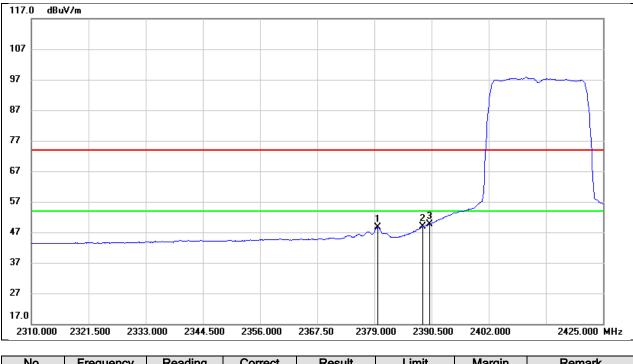
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



NU.	riequency	neaulity	Conect	nesuit	LIIIIL	waryin	Nellialk
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2379.575	27.42	32.87	60.29	74.00	-13.71	peak
2	2388.775	37.11	32.92	70.03	74.00	-3.97	peak
3	2390.000	34.21	32.92	67.13	74.00	-6.87	peak



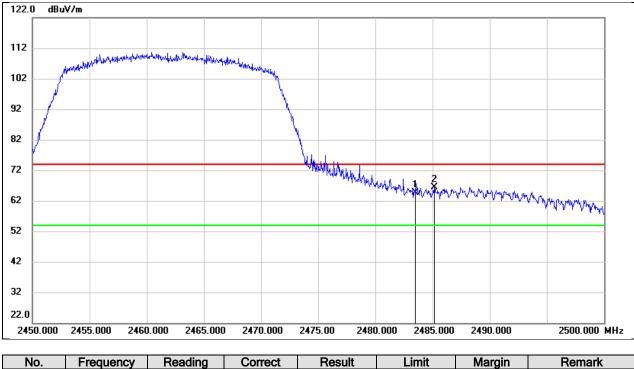
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2379.575	15.70	32.87	48.57	54.00	-5.43	AVG
2	2388.775	15.85	32.92	48.77	54.00	-5.23	AVG
3	2390.000	16.71	32.92	49.63	54.00	-4.37	AVG



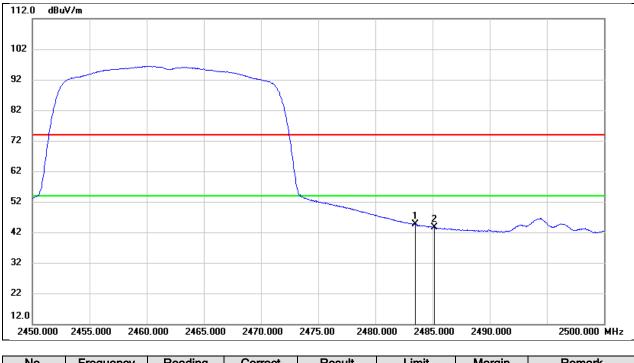
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



INU.	Frequency	Reaulity	Conect	Result	LIIIIL	Iviaryiri	Reillaik
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	31.89	32.75	64.64	74.00	-9.36	peak
2	2485.150	33.65	32.75	66.40	74.00	-7.60	peak



Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	11.84	32.75	44.59	54.00	-9.41	AVG
2	2485.150	10.78	32.75	43.53	54.00	-10.47	AVG

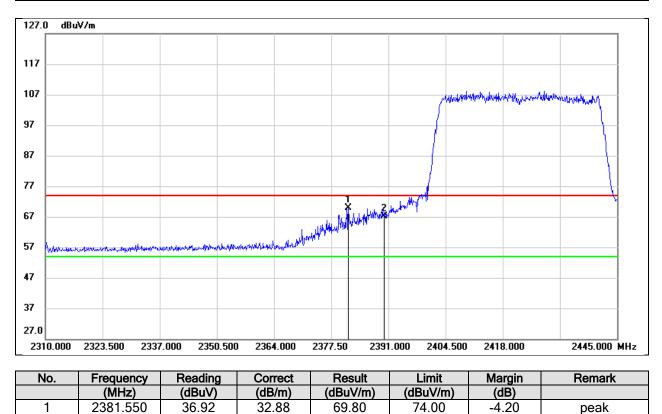


2390.000

34.22

32.92

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



67.14

74.00

-6.86

peak



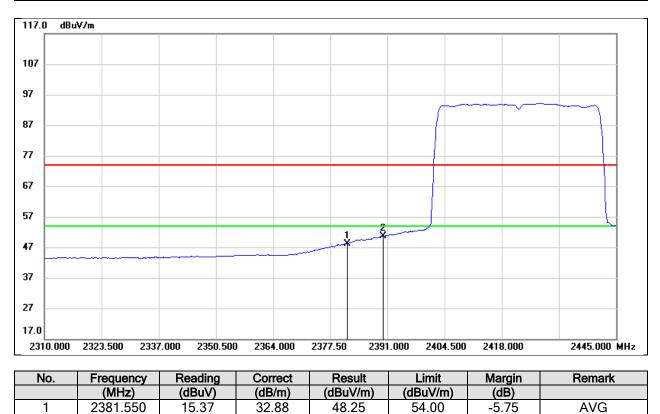
2390.000

-3.40

AVG

54.00

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



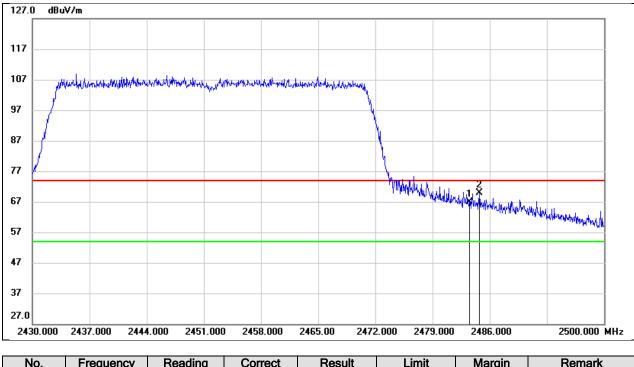
50.60

32.92

17.68



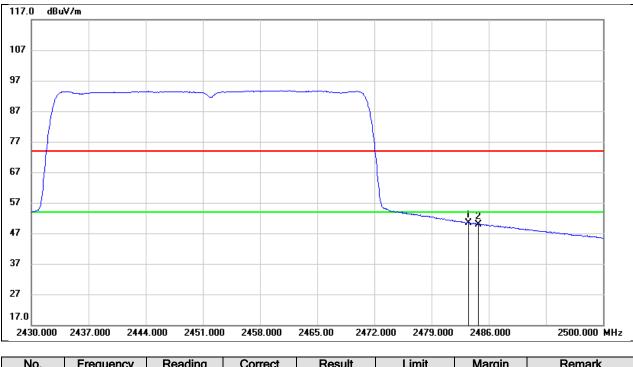
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



	NO.	Frequency	Reading	Correct	Result	Limit	margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ſ	1	2483.500	33.84	32.94	66.78	74.00	-7.22	peak
	2	2484.740	36.87	32.94	69.81	74.00	-4.19	peak



Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V

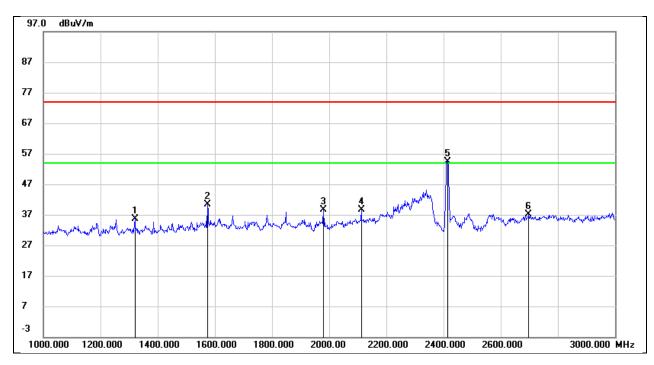


NO.	Frequency	Reading	Correct	Result	Limit	margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	17.38	32.94	50.32	54.00	-3.68	AVG
2	2484.740	16.95	32.94	49.89	54.00	-4.11	AVG



## 8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

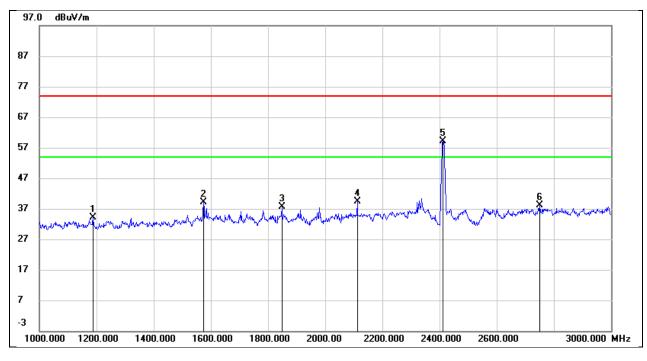
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	48.15	-12.50	35.65	74.00	-38.35	peak
2	1574.000	51.59	-11.32	40.27	74.00	-33.73	peak
3	1980.000	48.85	-10.13	38.72	74.00	-35.28	peak
4	2112.000	48.15	-9.42	38.73	74.00	-35.27	peak
5	2412.000	61.89	-7.41	54.48	/	/	fundamental
6	2698.000	44.49	-7.24	37.25	74.00	-36.75	peak



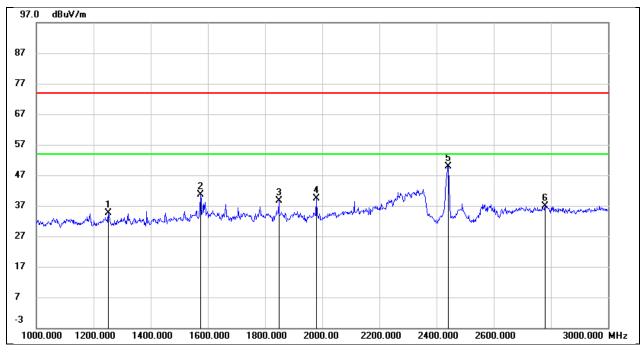
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1188.000	46.90	-12.75	34.15	74.00	-39.85	peak
2	1574.000	50.40	-11.32	39.08	74.00	-34.92	peak
3	1848.000	47.85	-10.20	37.65	74.00	-36.35	peak
4	2112.000	48.76	-9.42	39.34	74.00	-34.66	peak
5	2412.000	66.42	-7.41	59.01	/	/	fundamental
6	2750.000	45.04	-7.01	38.03	74.00	-35.97	peak



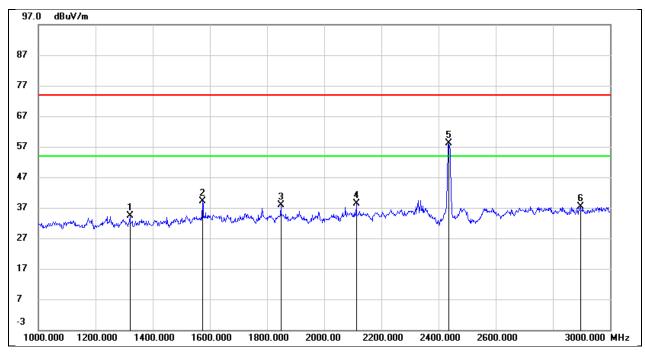
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1252.000	47.24	-12.58	34.66	74.00	-39.34	peak
2	1574.000	51.97	-11.32	40.65	74.00	-33.35	peak
3	1848.000	48.73	-10.20	38.53	74.00	-35.47	peak
4	1980.000	49.39	-10.13	39.26	74.00	-34.74	peak
5	2437.000	57.35	-7.44	49.91	/	/	fundamental
6	2780.000	43.78	-6.89	36.89	74.00	-37.11	peak



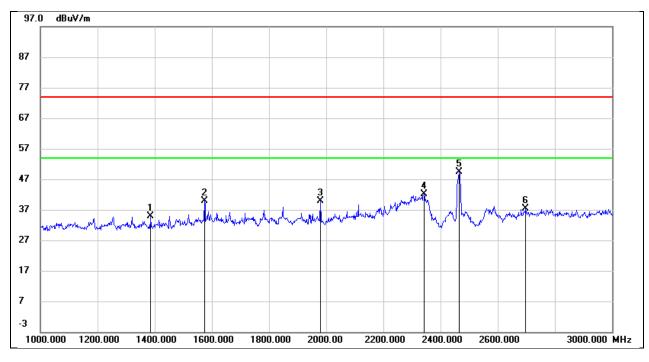
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	46.83	-12.50	34.33	74.00	-39.67	peak
2	1574.000	50.52	-11.32	39.20	74.00	-34.80	peak
3	1848.000	47.97	-10.20	37.77	74.00	-36.23	peak
4	2112.000	47.88	-9.42	38.46	74.00	-35.54	peak
5	2437.000	65.60	-7.43	58.17	/	/	fundamental
6	2896.000	43.71	-6.36	37.35	74.00	-36.65	peak



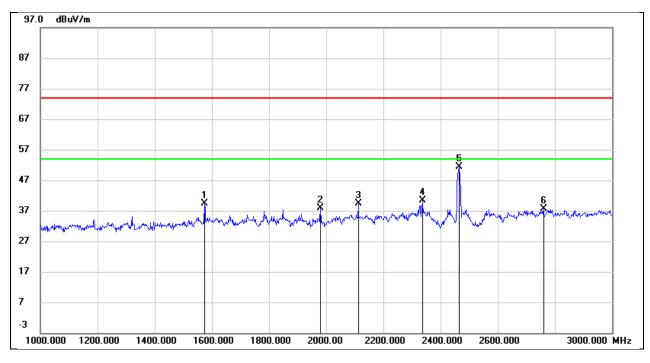
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1386.000	47.37	-12.43	34.94	74.00	-39.06	peak
2	1574.000	51.23	-11.32	39.91	74.00	-34.09	peak
3	1980.000	49.99	-10.13	39.86	74.00	-34.14	peak
4	2342.000	49.95	-7.83	42.12	74.00	-31.88	peak
5	2462.000	56.88	-7.47	49.41	/	/	fundamental
6	2698.000	44.59	-7.24	37.35	74.00	-36.65	peak



Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V

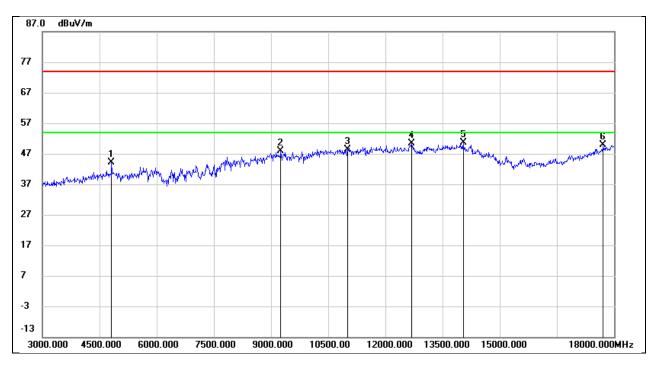


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1574.000	50.67	-11.32	39.35	74.00	-34.65	peak
2	1980.000	47.91	-10.13	37.78	74.00	-36.22	peak
3	2112.000	48.88	-9.42	39.46	74.00	-34.54	peak
4	2336.000	48.33	-7.87	40.46	74.00	-33.54	peak
5	2462.000	58.76	-7.47	51.29	/	/	fundamental
6	2760.000	44.73	-6.98	37.75	74.00	-36.25	peak



## 8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

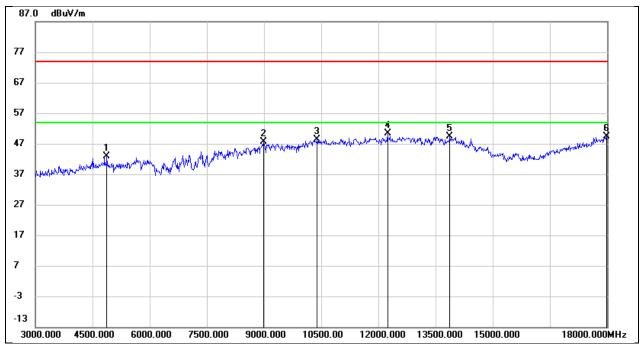
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	43.69	0.49	44.18	74.00	-29.82	peak
2	9255.000	37.76	10.14	47.90	74.00	-26.10	peak
3	11010.000	33.49	14.94	48.43	74.00	-25.57	peak
4	12690.000	31.66	18.60	50.26	74.00	-23.74	peak
5	14040.000	27.88	22.63	50.51	74.00	-23.49	peak
6	17715.000	24.50	25.31	49.81	74.00	-24.19	peak



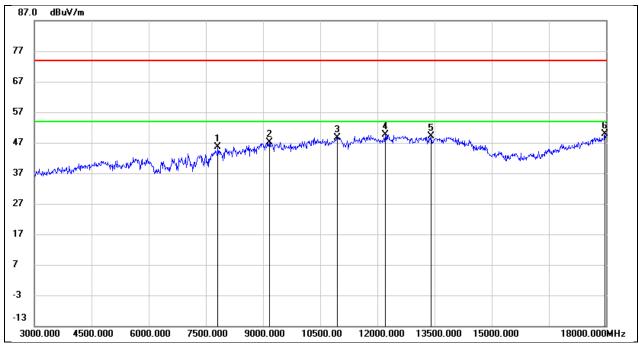
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	42.18	0.61	42.79	74.00	-31.21	peak
2	8985.000	36.72	10.97	47.69	74.00	-26.31	peak
3	10395.000	35.06	13.43	48.49	74.00	-25.51	peak
4	12240.000	31.82	18.46	50.28	74.00	-23.72	peak
5	13875.000	26.67	22.68	49.35	74.00	-24.65	peak
6	17985.000	22.61	26.77	49.38	74.00	-24.62	peak



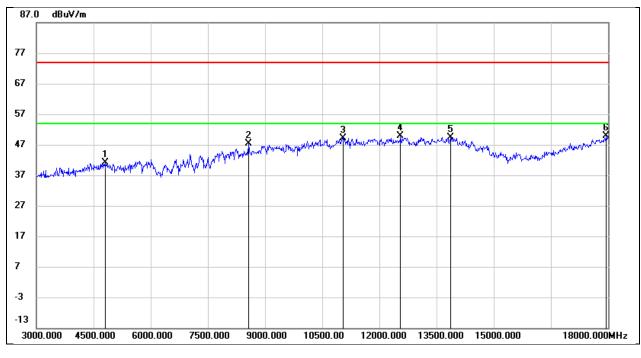
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	38.20	7.50	45.70	74.00	-28.30	peak
2	9165.000	36.91	10.21	47.12	74.00	-26.88	peak
3	10950.000	34.04	14.68	48.72	74.00	-25.28	peak
4	12210.000	31.28	18.35	49.63	74.00	-24.37	peak
5	13410.000	27.65	21.48	49.13	74.00	-24.87	peak
6	17970.000	23.08	26.72	49.80	74.00	-24.20	peak



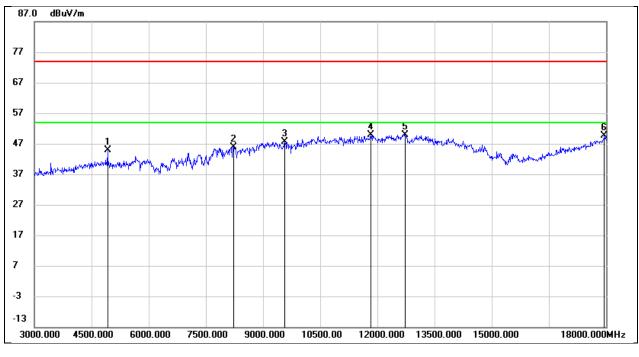
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	40.53	0.49	41.02	74.00	-32.98	peak
2	8565.000	38.85	8.55	47.40	74.00	-26.60	peak
3	11055.000	34.15	15.04	49.19	74.00	-24.81	peak
4	12555.000	31.46	18.39	49.85	74.00	-24.15	peak
5	13875.000	26.81	22.68	49.49	74.00	-24.51	peak
6	17955.000	23.18	26.66	49.84	74.00	-24.16	peak



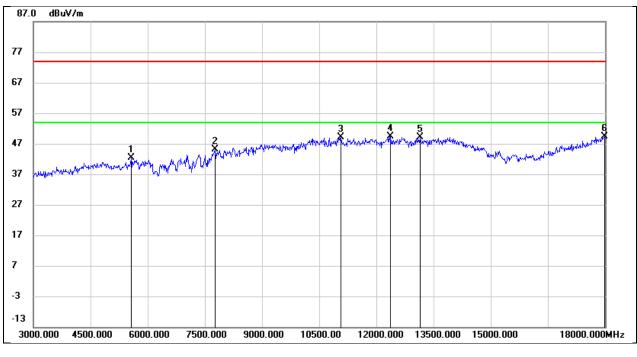
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	44.11	0.69	44.80	74.00	-29.20	peak
2	8235.000	37.08	8.70	45.78	74.00	-28.22	peak
3	9570.000	36.53	10.98	47.51	74.00	-26.49	peak
4	11820.000	32.20	17.73	49.93	74.00	-24.07	peak
5	12735.000	31.07	18.77	49.84	74.00	-24.16	peak
6	17955.000	22.96	26.66	49.62	74.00	-24.38	peak



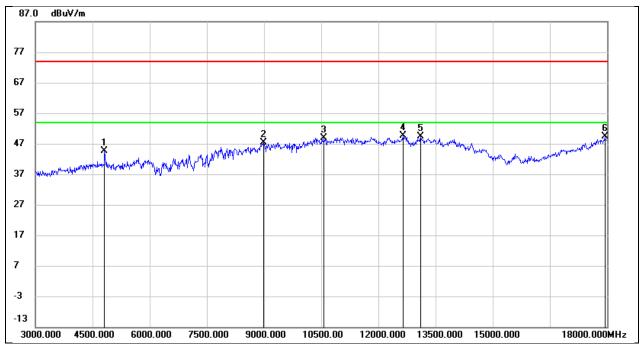
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5565.000	39.73	2.65	42.38	74.00	-31.62	peak
2	7770.000	37.62	7.43	45.05	74.00	-28.95	peak
3	11070.000	33.95	15.08	49.03	74.00	-24.97	peak
4	12375.000	30.59	18.90	49.49	74.00	-24.51	peak
5	13140.000	29.44	19.80	49.24	74.00	-24.76	peak
6	17985.000	22.59	26.77	49.36	74.00	-24.64	peak



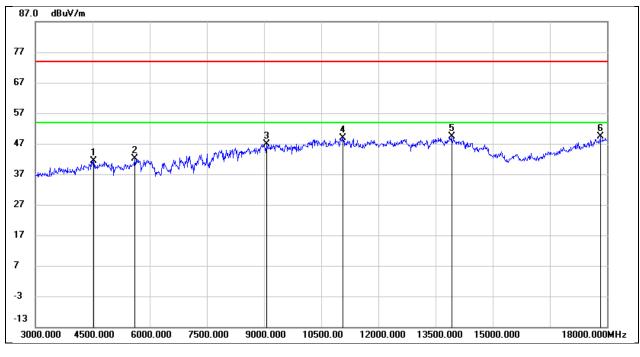
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	44.26	0.49	44.75	74.00	-29.25	peak
2	8985.000	36.42	10.97	47.39	74.00	-26.61	peak
3	10575.000	35.01	13.87	48.88	74.00	-25.12	peak
4	12645.000	31.07	18.44	49.51	74.00	-24.49	peak
5	13110.000	29.78	19.64	49.42	74.00	-24.58	peak
6	17940.000	22.66	26.61	49.27	74.00	-24.73	peak



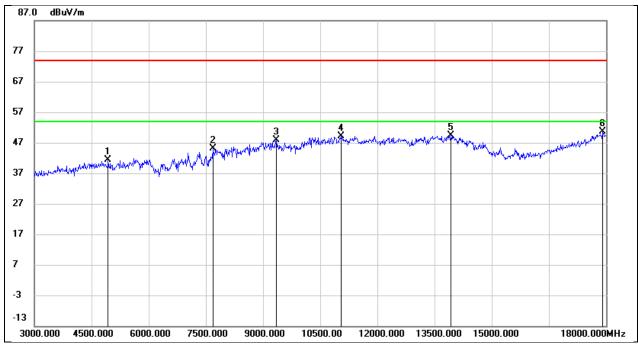
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4530.000	42.04	-0.70	41.34	74.00	-32.66	peak
2	5610.000	39.30	2.78	42.08	74.00	-31.92	peak
3	9075.000	36.17	10.74	46.91	74.00	-27.09	peak
4	11070.000	33.92	15.08	49.00	74.00	-25.00	peak
5	13920.000	26.62	22.71	49.33	74.00	-24.67	peak
6	17820.000	23.19	26.16	49.35	74.00	-24.65	peak



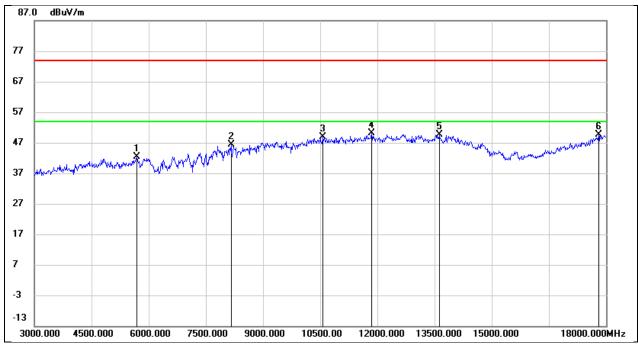
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	40.76	0.71	41.47	74.00	-32.53	peak
2	7680.000	37.97	7.13	45.10	74.00	-28.90	peak
3	9345.000	37.46	10.32	47.78	74.00	-26.22	peak
4	11055.000	34.04	15.04	49.08	74.00	-24.92	peak
5	13935.000	26.61	22.72	49.33	74.00	-24.67	peak
6	17910.000	24.07	26.50	50.57	74.00	-23.43	peak



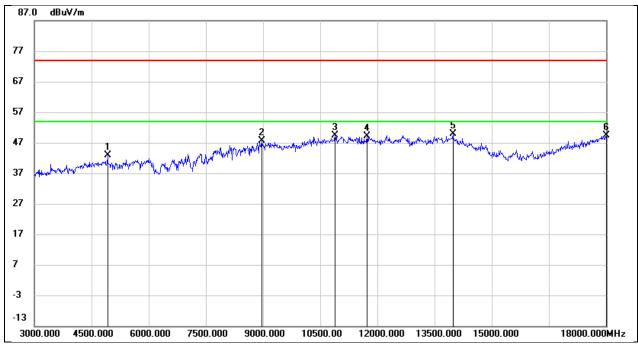
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5685.000	39.90	2.59	42.49	74.00	-31.51	peak
2	8160.000	37.87	8.50	46.37	74.00	-27.63	peak
3	10560.000	34.94	13.84	48.78	74.00	-25.22	peak
4	11850.000	32.21	17.84	50.05	74.00	-23.95	peak
5	13620.000	27.90	21.76	49.66	74.00	-24.34	peak
6	17805.000	23.55	26.11	49.66	74.00	-24.34	peak



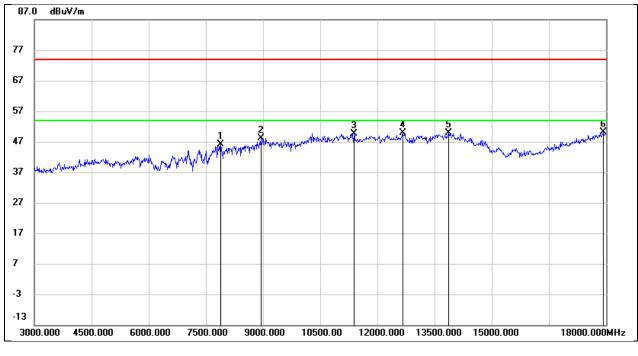
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	42.10	0.69	42.79	74.00	-31.21	peak
2	8970.000	36.76	10.75	47.51	74.00	-26.49	peak
3	10890.000	34.91	14.39	49.30	74.00	-24.70	peak
4	11730.000	31.70	17.41	49.11	74.00	-24.89	peak
5	13980.000	27.08	22.75	49.83	74.00	-24.17	peak
6	18000.000	22.64	26.83	49.47	74.00	-24.53	peak



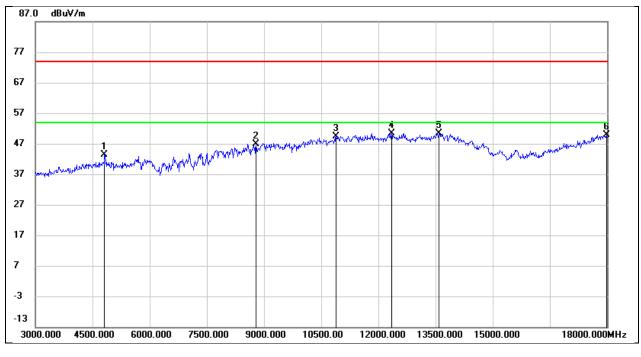
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	38.76	7.29	46.05	74.00	-27.95	peak
2	8940.000	37.73	10.35	48.08	74.00	-25.92	peak
3	11385.000	33.17	16.45	49.62	74.00	-24.38	peak
4	12660.000	31.34	18.49	49.83	74.00	-24.17	peak
5	13875.000	27.13	22.68	49.81	74.00	-24.19	peak
6	17925.000	23.46	26.55	50.01	74.00	-23.99	peak



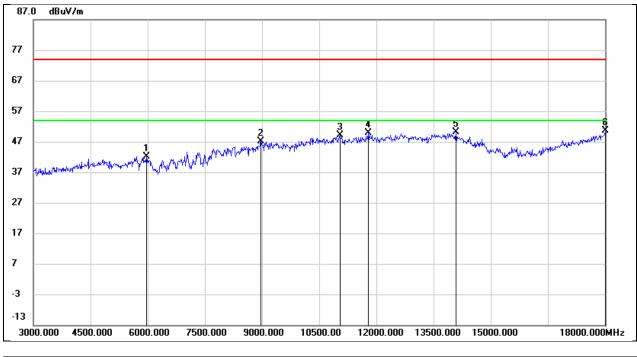
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	42.96	0.49	43.45	74.00	-30.55	peak
2	8790.000	38.47	8.44	46.91	74.00	-27.09	peak
3	10890.000	35.11	14.39	49.50	74.00	-24.50	peak
4	12345.000	31.68	18.81	50.49	74.00	-23.51	peak
5	13590.000	28.66	21.66	50.32	74.00	-23.68	peak
6	17985.000	23.23	26.77	50.00	74.00	-24.00	peak



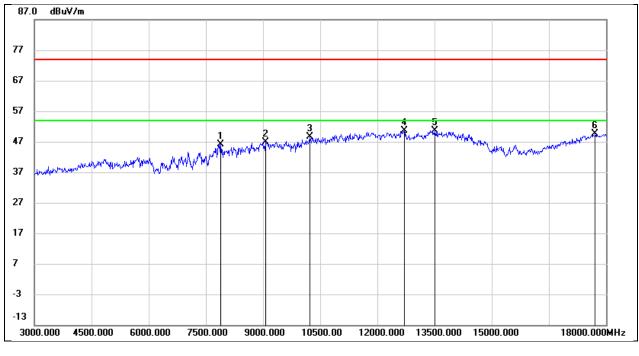
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5970.000	39.25	2.99	42.24	74.00	-31.76	peak
2	8970.000	36.48	10.75	47.23	74.00	-26.77	peak
3	11040.000	34.12	15.01	49.13	74.00	-24.87	peak
4	11790.000	32.39	17.60	49.99	74.00	-24.01	peak
5	14085.000	27.52	22.51	50.03	74.00	-23.97	peak
6	18000.000	23.88	26.83	50.71	74.00	-23.29	peak



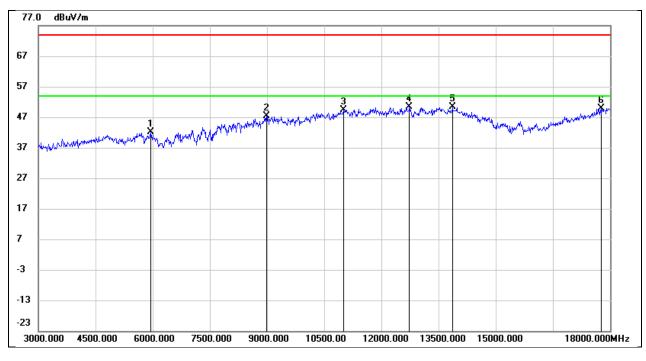
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	38.79	7.29	46.08	74.00	-27.92	peak
2	9060.000	36.12	10.82	46.94	74.00	-27.06	peak
3	10230.000	36.12	12.62	48.74	74.00	-25.26	peak
4	12705.000	31.94	18.66	50.60	74.00	-23.40	peak
5	13515.000	29.05	21.69	50.74	74.00	-23.26	peak
6	17715.000	24.31	25.31	49.62	74.00	-24.38	peak



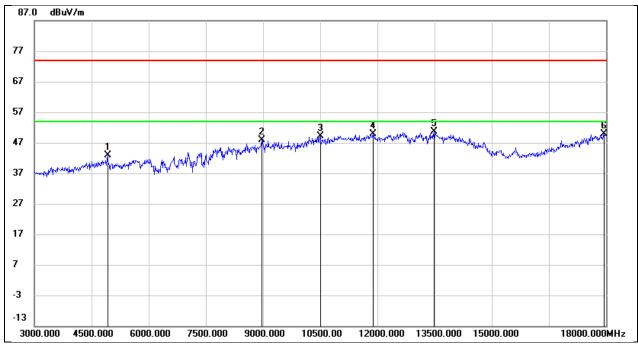
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5940.000	39.36	2.85	42.21	74.00	-31.79	peak
2	8985.000	36.47	10.97	47.44	74.00	-26.56	peak
3	11010.000	34.52	14.94	49.46	74.00	-24.54	peak
4	12735.000	31.59	18.77	50.36	74.00	-23.64	peak
5	13860.000	27.60	22.68	50.28	74.00	-23.72	peak
6	17775.000	24.08	25.86	49.94	74.00	-24.06	peak



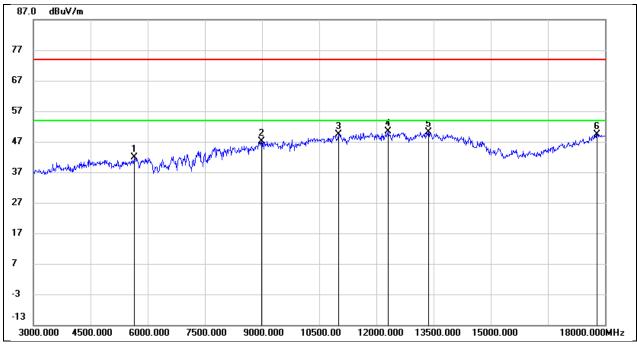
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	42.20	0.69	42.89	74.00	-31.11	peak
2	8970.000	37.02	10.75	47.77	74.00	-26.23	peak
3	10500.000	35.41	13.70	49.11	74.00	-24.89	peak
4	11880.000	31.94	17.97	49.91	74.00	-24.09	peak
5	13485.000	28.95	21.65	50.60	74.00	-23.40	peak
6	17940.000	23.24	26.61	49.85	74.00	-24.15	peak



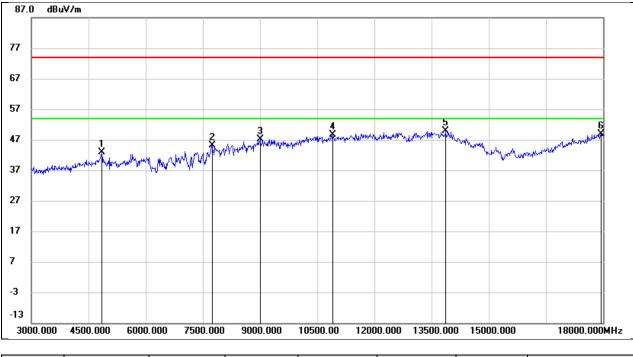
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	39.23	2.67	41.90	74.00	-32.10	peak
2	8985.000	36.25	10.97	47.22	74.00	-26.78	peak
3	11010.000	34.52	14.94	49.46	74.00	-24.54	peak
4	12315.000	31.71	18.71	50.42	74.00	-23.58	peak
5	13365.000	29.01	21.22	50.23	74.00	-23.77	peak
6	17790.000	23.47	25.99	49.46	74.00	-24.54	peak



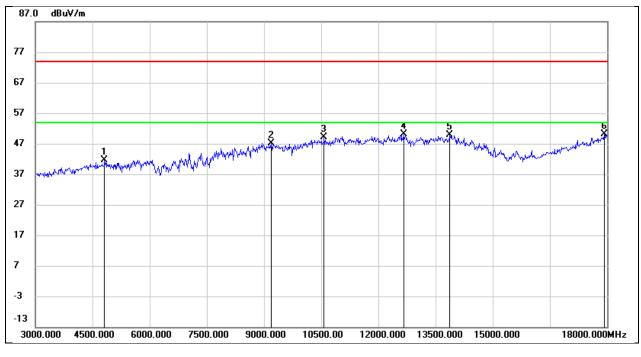
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	42.35	0.54	42.89	74.00	-31.11	peak
2	7740.000	37.69	7.33	45.02	74.00	-28.98	peak
3	9000.000	36.08	11.17	47.25	74.00	-26.75	peak
4	10905.000	34.17	14.46	48.63	74.00	-25.37	peak
5	13875.000	27.24	22.68	49.92	74.00	-24.08	peak
6	17940.000	22.22	26.61	48.83	74.00	-25.17	peak



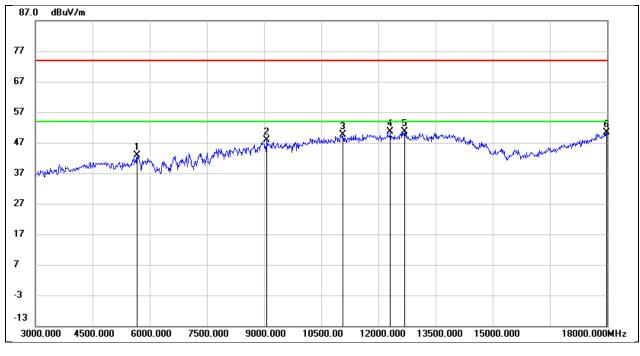
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	41.21	0.49	41.70	74.00	-32.30	peak
2	9195.000	37.20	10.03	47.23	74.00	-26.77	peak
3	10575.000	35.21	13.87	49.08	74.00	-24.92	peak
4	12660.000	31.52	18.49	50.01	74.00	-23.99	peak
5	13875.000	27.30	22.68	49.98	74.00	-24.02	peak
6	17925.000	23.51	26.55	50.06	74.00	-23.94	peak



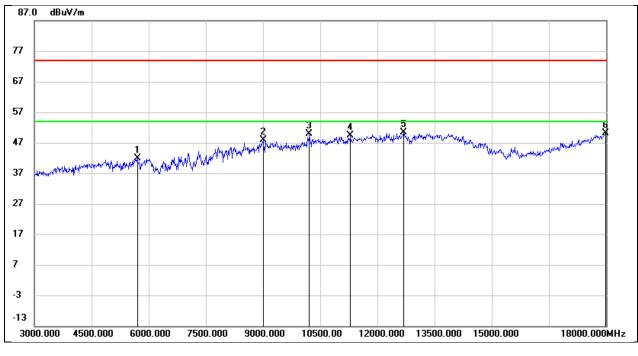
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	40.33	2.62	42.95	74.00	-31.05	peak
2	9075.000	37.05	10.74	47.79	74.00	-26.21	peak
3	11070.000	34.47	15.08	49.55	74.00	-24.45	peak
4	12315.000	31.97	18.71	50.68	74.00	-23.32	peak
5	12690.000	31.92	18.60	50.52	74.00	-23.48	peak
6	17985.000	23.60	26.77	50.37	74.00	-23.63	peak



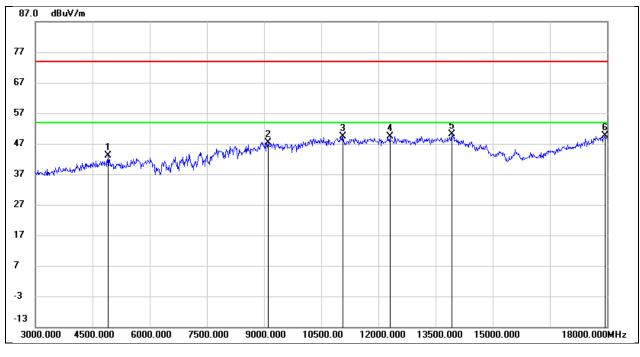
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	39.33	2.54	41.87	74.00	-32.13	peak
2	9000.000	36.81	11.17	47.98	74.00	-26.02	peak
3	10215.000	37.25	12.56	49.81	74.00	-24.19	peak
4	11295.000	33.35	15.93	49.28	74.00	-24.72	peak
5	12690.000	31.66	18.60	50.26	74.00	-23.74	peak
6	17985.000	23.41	26.77	50.18	74.00	-23.82	peak



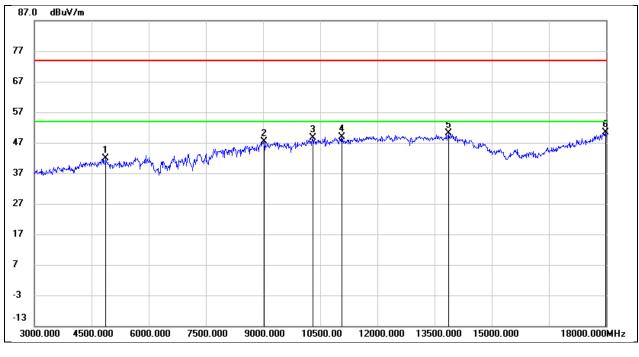
Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	42.42	0.66	43.08	74.00	-30.92	peak
2	9105.000	36.91	10.57	47.48	74.00	-26.52	peak
3	11070.000	34.36	15.08	49.44	74.00	-24.56	peak
4	12300.000	30.80	18.65	49.45	74.00	-24.55	peak
5	13920.000	27.39	22.71	50.10	74.00	-23.90	peak
6	17940.000	23.06	26.61	49.67	74.00	-24.33	peak



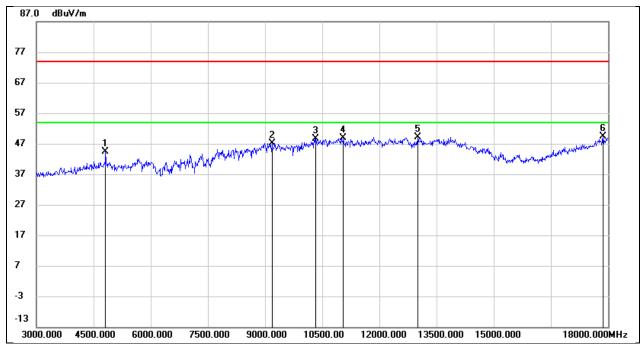
Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.23	0.61	41.84	74.00	-32.16	peak
2	9030.000	36.27	11.00	47.27	74.00	-26.73	peak
3	10305.000	35.51	13.00	48.51	74.00	-25.49	peak
4	11070.000	33.71	15.08	48.79	74.00	-25.21	peak
5	13860.000	27.39	22.68	50.07	74.00	-23.93	peak
6	17985.000	23.50	26.77	50.27	74.00	-23.73	peak



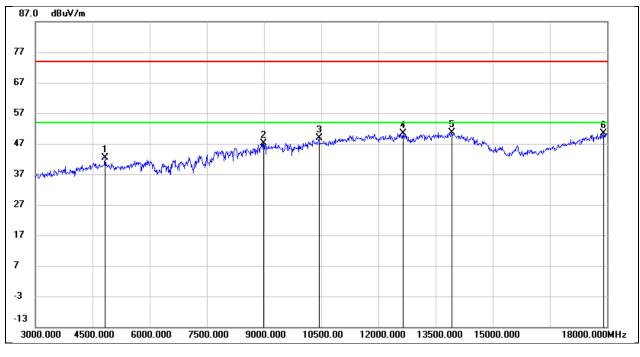
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	43.94	0.49	44.43	74.00	-29.57	peak
2	9180.000	36.98	10.13	47.11	74.00	-26.89	peak
3	10335.000	35.52	13.14	48.66	74.00	-25.34	peak
4	11055.000	33.77	15.04	48.81	74.00	-25.19	peak
5	13005.000	30.00	19.11	49.11	74.00	-24.89	peak
6	17865.000	23.15	26.33	49.48	74.00	-24.52	peak



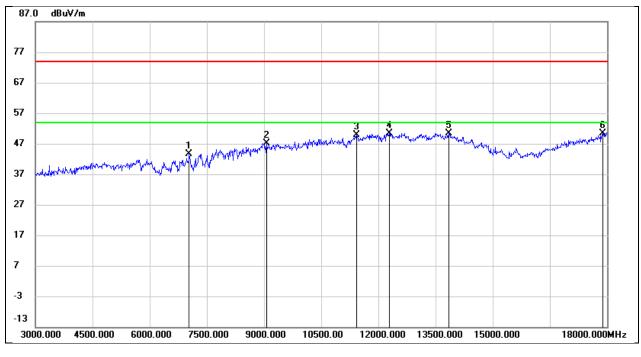
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	41.75	0.51	42.26	74.00	-31.74	peak
2	8985.000	36.18	10.97	47.15	74.00	-26.85	peak
3	10440.000	35.40	13.56	48.96	74.00	-25.04	peak
4	12645.000	32.00	18.44	50.44	74.00	-23.56	peak
5	13935.000	28.00	22.72	50.72	74.00	-23.28	peak
6	17910.000	23.96	26.50	50.46	74.00	-23.54	peak



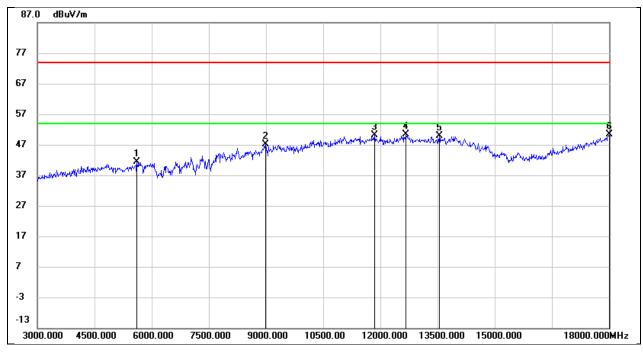
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.41	7.28	43.69	74.00	-30.31	peak
2	9060.000	36.36	10.82	47.18	74.00	-26.82	peak
3	11430.000	33.17	16.64	49.81	74.00	-24.19	peak
4	12285.000	31.71	18.60	50.31	74.00	-23.69	peak
5	13845.000	27.70	22.67	50.37	74.00	-23.63	peak
6	17880.000	23.94	26.39	50.33	74.00	-23.67	peak



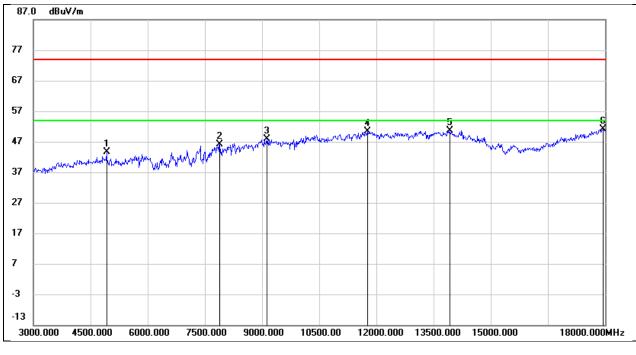
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5610.000	38.58	2.78	41.36	74.00	-32.64	peak
2	8985.000	36.14	10.97	47.11	74.00	-26.89	peak
3	11850.000	32.20	17.84	50.04	74.00	-23.96	peak
4	12675.000	31.87	18.54	50.41	74.00	-23.59	peak
5	13545.000	28.08	21.68	49.76	74.00	-24.24	peak
6	18000.000	23.47	26.83	50.30	74.00	-23.70	peak



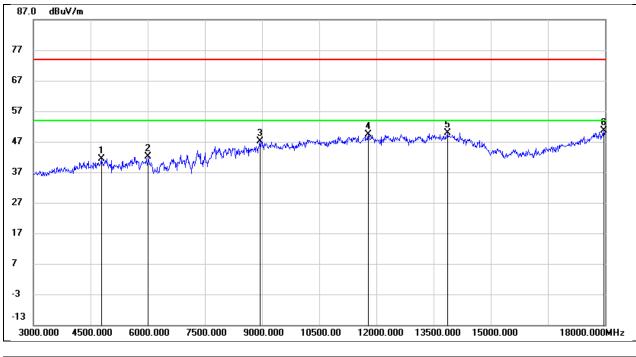
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	42.85	0.69	43.54	74.00	-30.46	peak
2	7890.000	38.72	7.29	46.01	74.00	-27.99	peak
3	9135.000	37.47	10.39	47.86	74.00	-26.14	peak
4	11760.000	32.84	17.51	50.35	74.00	-23.65	peak
5	13920.000	27.83	22.71	50.54	74.00	-23.46	peak
6	17940.000	24.45	26.61	51.06	74.00	-22.94	peak



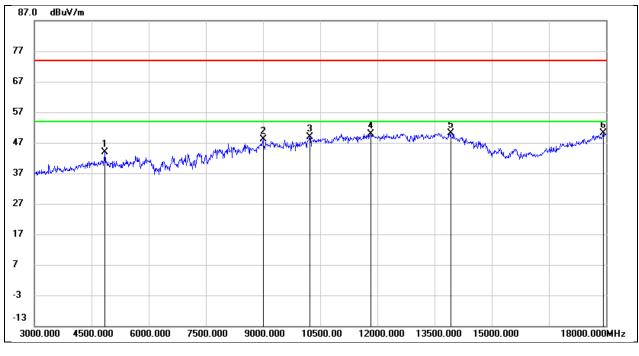
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4785.000	40.94	0.38	41.32	74.00	-32.68	peak
2	6015.000	39.08	3.09	42.17	74.00	-31.83	peak
3	8940.000	36.75	10.35	47.10	74.00	-26.90	peak
4	11790.000	31.76	17.60	49.36	74.00	-24.64	peak
5	13860.000	27.13	22.68	49.81	74.00	-24.19	peak
6	17970.000	23.79	26.72	50.51	74.00	-23.49	peak



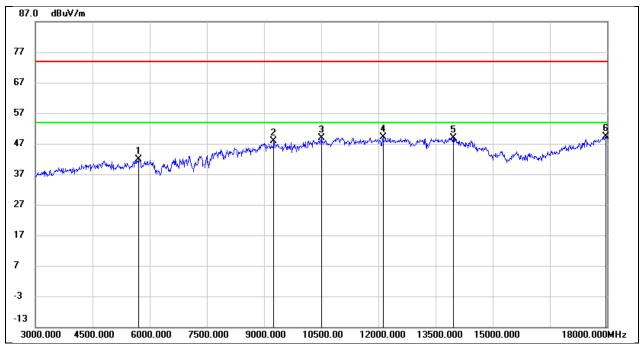
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	43.29	0.54	43.83	74.00	-30.17	peak
2	9000.000	36.96	11.17	48.13	74.00	-25.87	peak
3	10230.000	36.37	12.62	48.99	74.00	-25.01	peak
4	11820.000	32.25	17.73	49.98	74.00	-24.02	peak
5	13920.000	27.50	22.71	50.21	74.00	-23.79	peak
6	17925.000	23.69	26.55	50.24	74.00	-23.76	peak



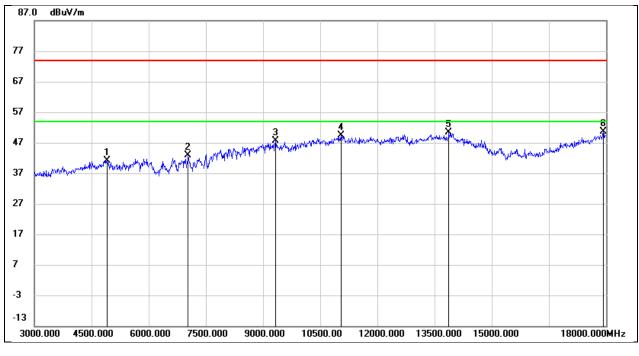
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5715.000	39.29	2.50	41.79	74.00	-32.21	peak
2	9255.000	37.77	10.14	47.91	74.00	-26.09	peak
3	10500.000	35.14	13.70	48.84	74.00	-25.16	peak
4	12120.000	30.74	18.40	49.14	74.00	-24.86	peak
5	13965.000	26.10	22.74	48.84	74.00	-25.16	peak
6	17970.000	22.70	26.72	49.42	74.00	-24.58	peak



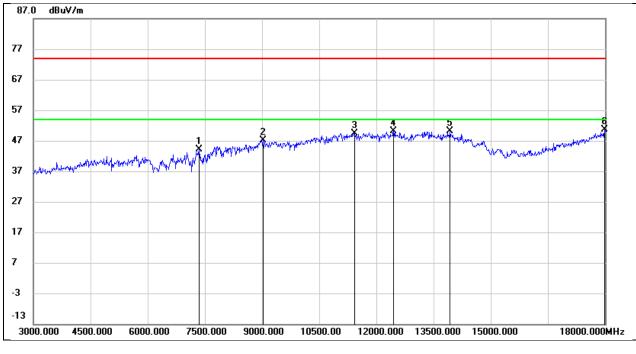
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	40.55	0.66	41.21	74.00	-32.79	peak
2	7035.000	35.70	7.28	42.98	74.00	-31.02	peak
3	9330.000	37.33	10.30	47.63	74.00	-26.37	peak
4	11040.000	34.28	15.01	49.29	74.00	-24.71	peak
5	13875.000	27.80	22.68	50.48	74.00	-23.52	peak
6	17925.000	24.03	26.55	50.58	74.00	-23.42	peak



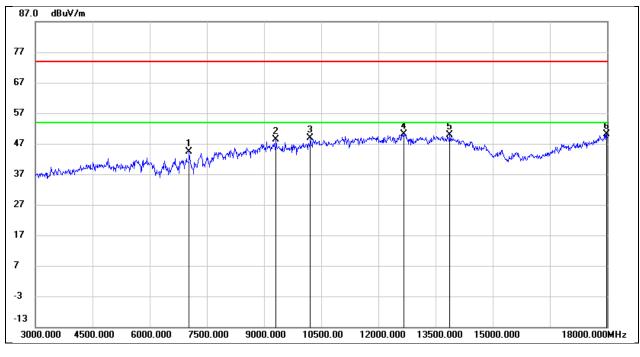
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7350.000	37.07	7.17	44.24	74.00	-29.76	peak
2	9030.000	36.06	11.00	47.06	74.00	-26.94	peak
3	11430.000	32.73	16.64	49.37	74.00	-24.63	peak
4	12450.000	31.42	18.77	50.19	74.00	-23.81	peak
5	13935.000	27.31	22.72	50.03	74.00	-23.97	peak
6	17985.000	23.93	26.77	50.70	74.00	-23.30	peak



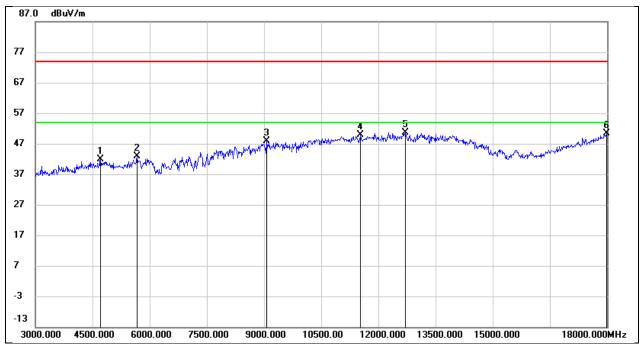
Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	37.05	7.28	44.33	74.00	-29.67	peak
2	9315.000	38.05	10.26	48.31	74.00	-25.69	peak
3	10215.000	36.31	12.56	48.87	74.00	-25.13	peak
4	12660.000	31.70	18.49	50.19	74.00	-23.81	peak
5	13875.000	27.10	22.68	49.78	74.00	-24.22	peak
6	17985.000	23.26	26.77	50.03	74.00	-23.97	peak



Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 5 V

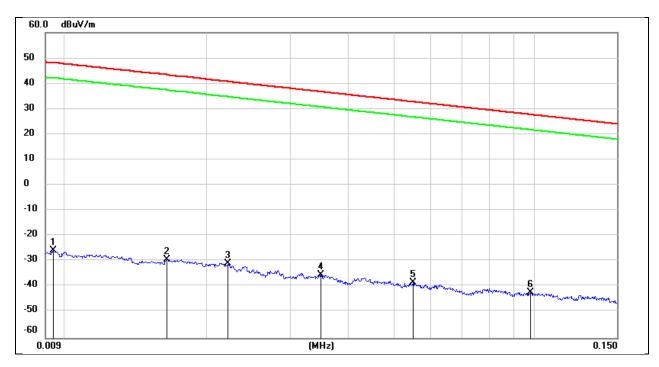


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4710.000	41.79	-0.01	41.78	74.00	-32.22	peak
2	5670.000	40.16	2.62	42.78	74.00	-31.22	peak
3	9075.000	37.20	10.74	47.94	74.00	-26.06	peak
4	11535.000	33.03	16.93	49.96	74.00	-24.04	peak
5	12705.000	32.04	18.66	50.70	74.00	-23.30	peak
6	17985.000	23.51	26.77	50.28	74.00	-23.72	peak



# 8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

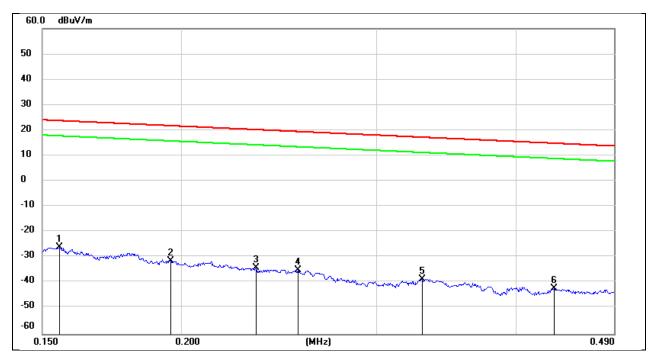
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0094	75.57	-101.35	-25.78	48.05	-77.28	-3.45	-73.83	peak
2	0.0164	72.11	-101.37	-29.26	43.30	-80.76	-8.20	-72.56	peak
3	0.0221	70.63	-101.35	-30.72	40.71	-82.22	-10.79	-71.43	peak
4	0.0349	66.03	-101.41	-35.38	36.75	-86.88	-14.75	-72.13	peak
5	0.0550	63.10	-101.50	-38.40	32.79	-89.90	-18.71	-71.19	peak
6	0.0981	59.77	-101.78	-42.01	27.77	-93.51	-23.73	-69.78	peak



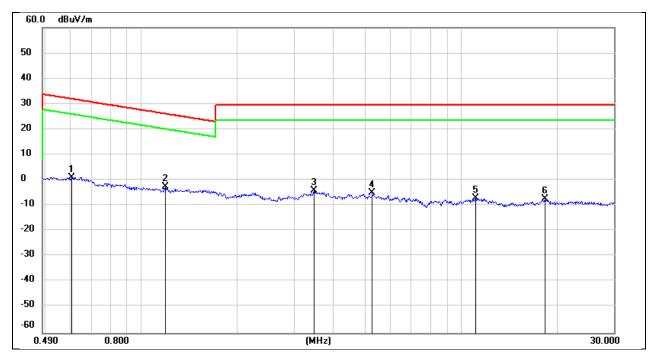
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	75.77	-101.65	-25.88	23.77	-77.38	-27.73	-49.65	peak
2	0.1955	70.35	-101.71	-31.36	21.78	-82.86	-29.72	-53.14	peak
3	0.2336	67.58	-101.77	-34.19	20.23	-85.69	-31.27	-54.42	peak
4	0.2545	66.90	-101.80	-34.90	19.49	-86.40	-32.01	-54.39	peak
5	0.3300	63.47	-101.88	-38.41	17.23	-89.91	-34.27	-55.64	peak
6	0.4329	59.73	-101.99	-42.26	14.87	-93.76	-36.63	-57.13	peak



Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V

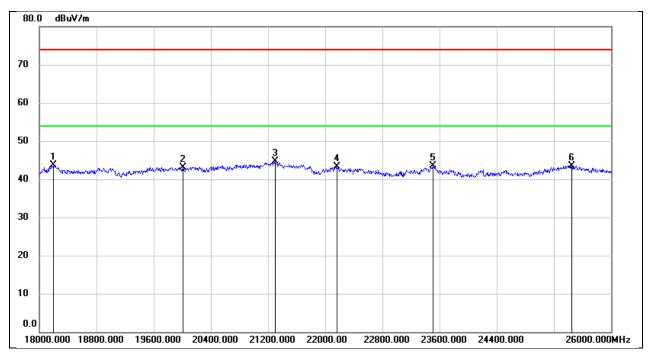


No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.6044	63.15	-62.09	1.06	31.98	-50.44	-19.52	-30.92	peak
2	1.1868	59.70	-62.18	-2.48	26.12	-53.98	-25.38	-28.60	peak
3	3.4704	57.35	-61.46	-4.11	29.54	-55.61	-21.96	-33.65	peak
4	5.2705	56.54	-61.45	-4.91	29.54	-56.41	-21.96	-34.45	peak
5	11.0838	53.78	-60.84	-7.06	29.54	-58.56	-21.96	-36.60	peak
6	18.2545	53.43	-60.90	-7.47	29.54	-58.97	-21.96	-37.01	peak



# 8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V

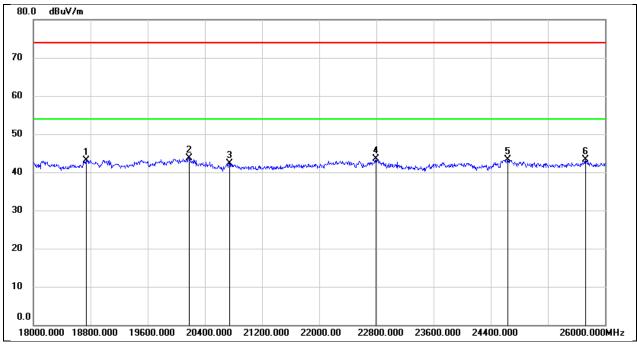


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18200.000	49.29	-5.52	43.77	74.00	-30.23	peak
2	20008.000	48.53	-5.46	43.07	74.00	-30.93	peak
3	21296.000	49.53	-4.75	44.78	74.00	-29.22	peak
4	22160.000	47.58	-4.31	43.27	74.00	-30.73	peak
5	23504.000	46.62	-3.14	43.48	74.00	-30.52	peak
6	25448.000	45.33	-1.76	43.57	74.00	-30.43	peak

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Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V

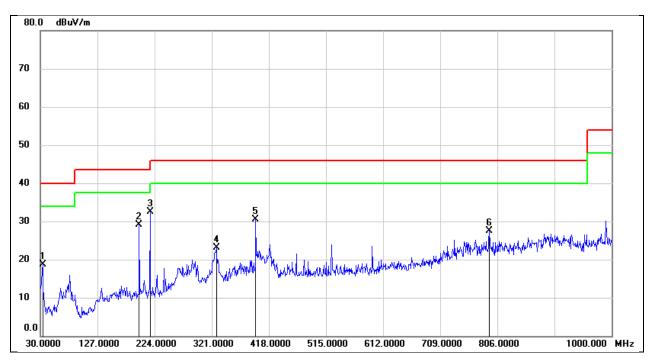


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18736.000	48.51	-5.41	43.10	74.00	-30.90	peak
2	20176.000	49.21	-5.56	43.65	74.00	-30.35	peak
3	20744.000	47.42	-5.12	42.30	74.00	-31.70	peak
4	22792.000	47.11	-3.65	43.46	74.00	-30.54	peak
5	24640.000	45.55	-2.32	43.23	74.00	-30.77	peak
6	25728.000	44.11	-0.72	43.39	74.00	-30.61	peak



## 8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

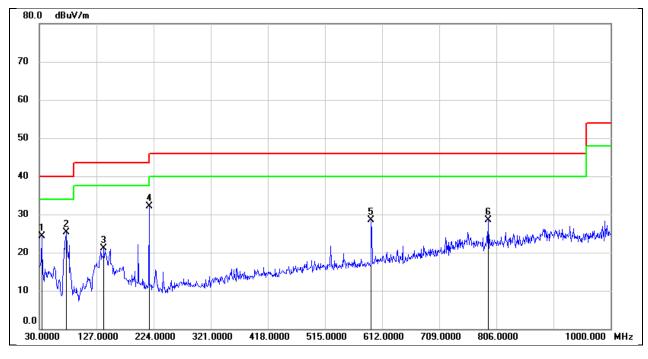
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	33.15	-14.52	18.63	40.00	-21.37	QP
2	197.8100	40.68	-11.57	29.11	43.50	-14.39	QP
3	216.2400	44.98	-12.45	32.53	46.00	-13.47	QP
4	328.7600	33.09	-10.04	23.05	46.00	-22.95	QP
5	395.6900	39.74	-9.31	30.43	46.00	-15.57	QP
6	792.4200	29.71	-2.14	27.57	46.00	-18.43	QP



Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	38.83	-14.52	24.31	40.00	-15.69	QP
2	75.5899	41.47	-16.24	25.23	40.00	-14.77	QP
3	139.6100	34.99	-13.88	21.11	43.50	-22.39	QP
4	216.2400	44.59	-12.45	32.14	46.00	-13.86	QP
5	593.5700	34.46	-5.95	28.51	46.00	-17.49	QP
6	792.4200	30.74	-2.14	28.60	46.00	-17.40	QP



# 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



# **10. AC POWER LINE CONDUCTED EMISSION**

#### LIMITS

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

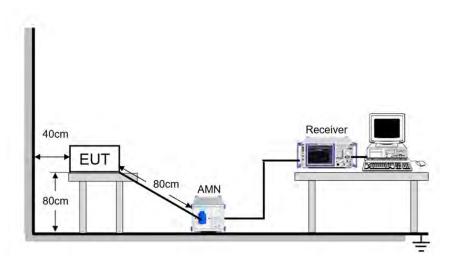
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### 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	<b>25.4</b> ℃	Relative Humidity	63.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

#### **TEST DATE / ENGINEER**

Test Date	August 9, 2024	Test By	Kebo Zhang
	<b>J</b>	,	



#### TEST RESULTS

Test Mode:	802.11b	Frequency(MHz): 2412	
Line:	Line		
80.0 dBuV			
70			
60			
50			
40	A. Heathal		
30 ***	warden and a second	hter when the state when any and the state of the state o	many homeson wanty
20 V VYWW	Valley- M. W. Ward W. and Mar a	10 10 10 10 10 10 10 10 10 10 10 10 10 1	peak
10			AVG
0.0	0.5 (MHz	) 5	30.000

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1694	21.85	10.30	32.15	64.99	-32.84	QP
2	0.1694	14.07	10.30	24.37	54.99	-30.62	AVG
3	0.4500	28.21	10.24	38.45	56.88	-18.43	QP
4	0.4500	17.83	10.24	28.07	46.88	-18.81	AVG
5	0.8879	20.50	10.10	30.60	56.00	-25.40	QP
6	0.8879	13.10	10.10	23.20	46.00	-22.80	AVG
7	3.2306	14.69	10.11	24.80	56.00	-31.20	QP
8	3.2306	7.51	10.11	17.62	46.00	-28.38	AVG
9	5.6073	16.63	10.28	26.91	60.00	-33.09	QP
10	5.6073	10.85	10.28	21.13	50.00	-28.87	AVG
11	8.6554	19.93	10.33	30.26	60.00	-29.74	QP
12	8.6554	14.17	10.33	24.50	50.00	-25.50	AVG

Note:

1. Result = Reading + Correct Factor.

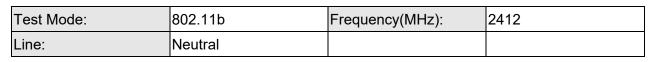
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

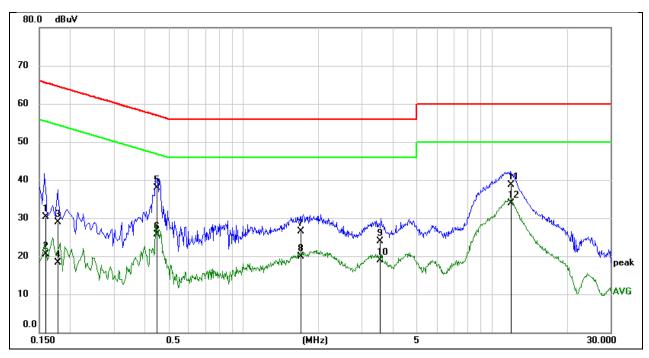
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	20.01	10.22	30.23	65.52	-35.29	QP
2	0.1590	10.27	10.22	20.49	55.52	-35.03	AVG
3	0.1780	18.68	10.18	28.86	64.58	-35.72	QP
4	0.1780	8.04	10.18	18.22	54.58	-36.36	AVG
5	0.4483	27.78	10.06	37.84	56.91	-19.07	QP
6	0.4483	15.67	10.06	25.73	46.91	-21.18	AVG
7	1.7087	16.49	9.98	26.47	56.00	-29.53	QP
8	1.7087	9.95	9.98	19.93	46.00	-26.07	AVG
9	3.5527	13.60	10.26	23.86	56.00	-32.14	QP
10	3.5527	8.63	10.26	18.89	46.00	-27.11	AVG
11	11.8738	28.26	10.50	38.76	60.00	-21.24	QP
12	11.8738	23.34	10.50	33.84	50.00	-16.16	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

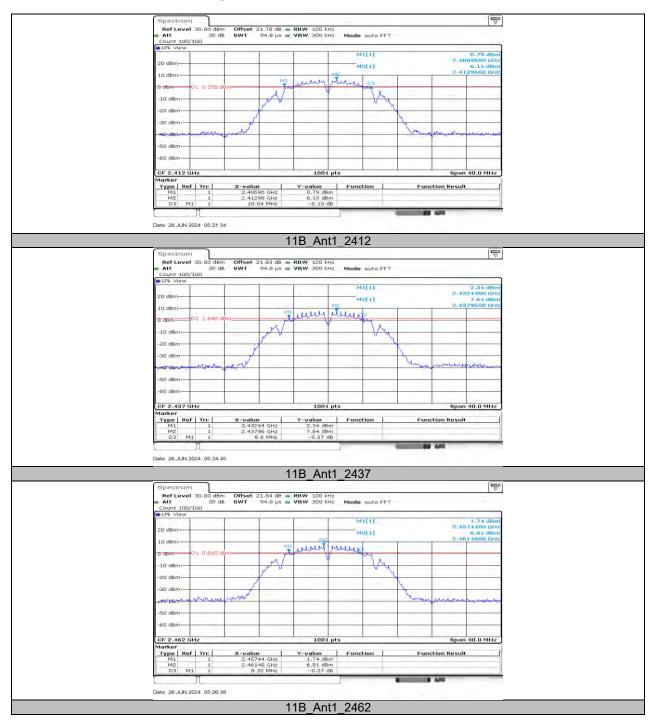
# 11.1. APPENDIX A: DTS BANDWIDTH

## 11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	10.04	2406.96	2417.00	≥0.5	PASS
11B	Ant1	2437	8.60	2432.44	2441.04	≥0.5	PASS
		2462	8.32	2457.44	2465.76	≥0.5	PASS
		2412	16.44	2403.72	2420.16	≥0.5	PASS
11G	Ant1	2437	16.36	2428.80	2445.16	≥0.5	PASS
		2462	16.60	2453.68	2470.28	≥0.5	PASS
		2412	17.80	2403.08	2420.88	≥0.5	PASS
11N20SISO	Ant1	2437	17.60	2428.16	2445.76	≥0.5	PASS
		2462	17.72	2453.08	2470.80	≥0.5	PASS
		2422	36.32	2403.84	2440.16	≥0.5	PASS
11N40SISO	Ant1	2437	36.32	2418.84	2455.16	≥0.5	PASS
		2452	36.32	2433.84	2470.16	≥0.5	PASS
		2412	19.12	2402.40	2421.52	≥0.5	PASS
11AX20SISO	Ant1	2437	19.16	2427.36	2446.52	≥0.5	PASS
		2462	19.20	2452.40	2471.60	≥0.5	PASS
		2422	37.92	2403.04	2440.96	≥0.5	PASS
11AX40SISO	Ant1	2437	38.08	2417.96	2456.04	≥0.5	PASS
		2452	38.16	2432.96	2471.12	≥0.5	PASS

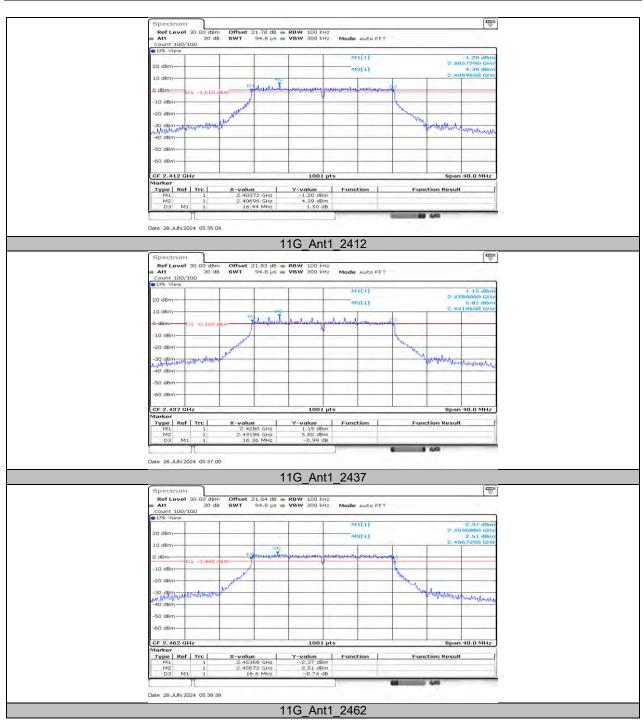


#### 11.1.2. Test Graphs

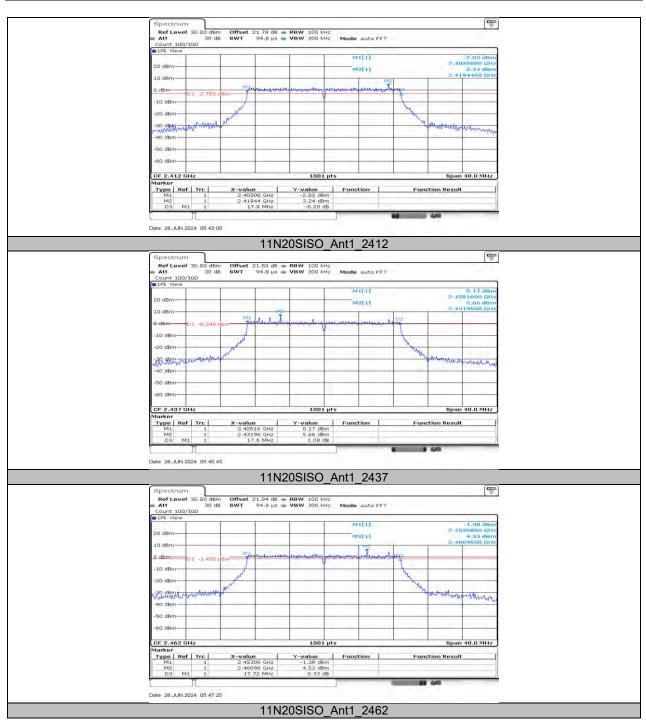


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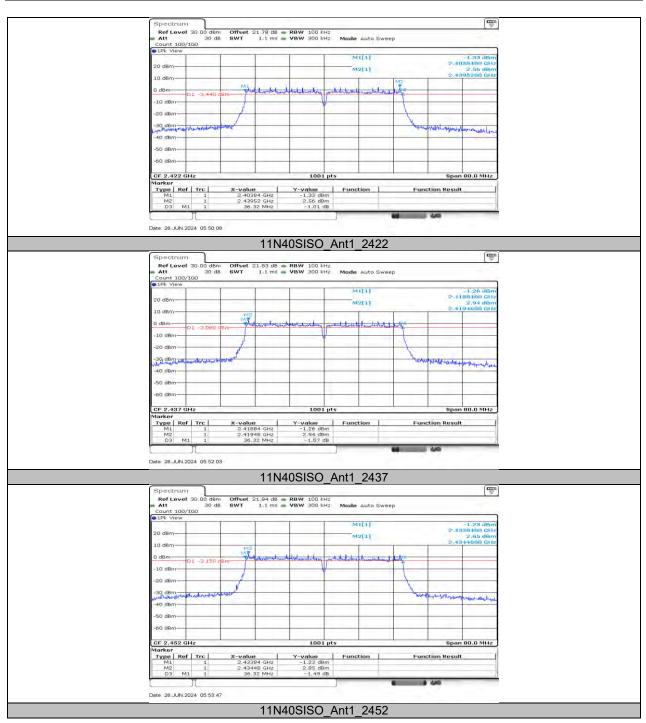




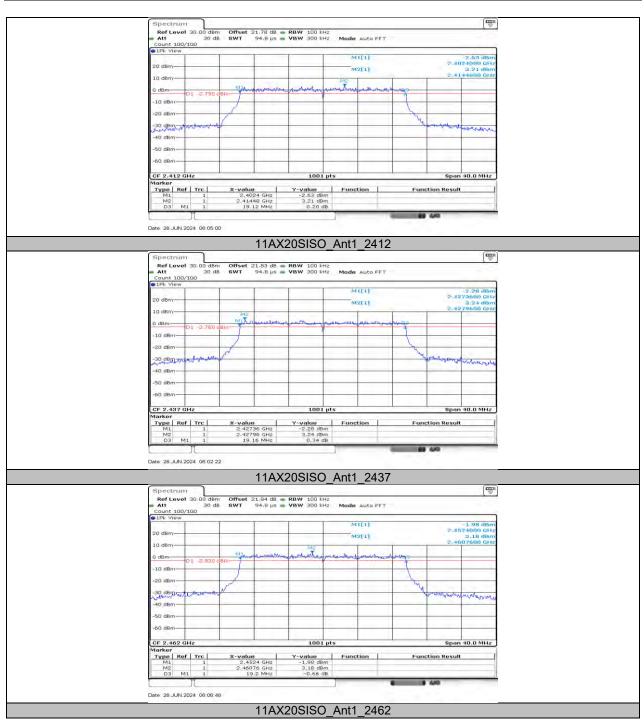




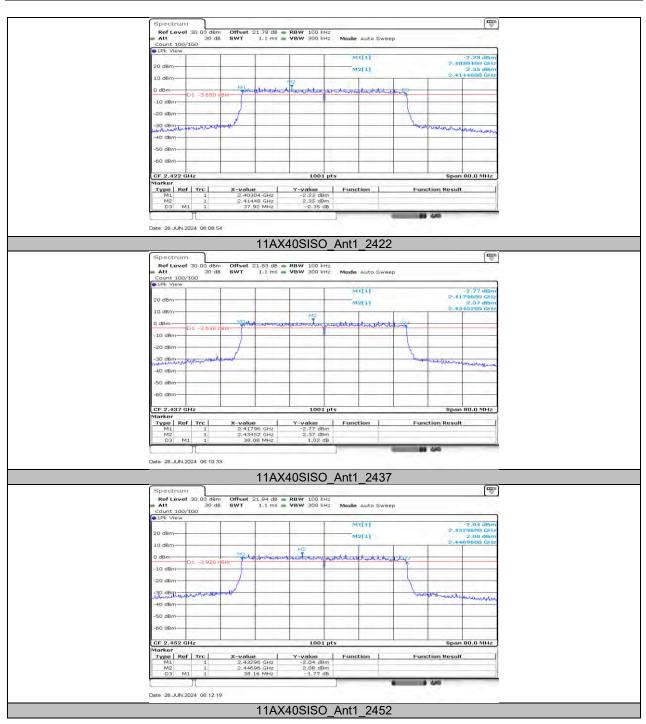










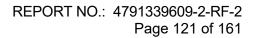




11.2.1.	Test Res	ult			
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
		2412	12.907	2405.5265	2418.4336
11B	Ant1	2437	12.907	2430.5265	2443.4336
		2462	12.947	2455.4865	2468.4336
		2412	18.182	2402.8492	2421.0310
11G	Ant1	2437	18.262	2427.8092	2446.0709
		2462	18.062	2452.9291	2470.9910
		2412	18.901	2402.5295	2421.4306
11N20SISO	Ant1	2437	18.941	2427.5295	2446.4705
		2462	18.901	2452.4895	2471.3906
		2422	37.243	2403.3786	2440.6214
11N40SISO	Ant1	2437	37.163	2418.3786	2455.5415
		2452	37.163	2433.3786	2470.5415
		2412	19.5	2402.2098	2421.7103
11AX20SISO	Ant1	2437	19.54	2427.2098	2446.7502
		2462	19.461	2452.2498	2471.7103
		2422	38.282	2402.8192	2441.1009
11AX40SISO	Ant1	2437	38.202	2417.8192	2456.0210
		2452	38.282	2432.8192	2471.1009

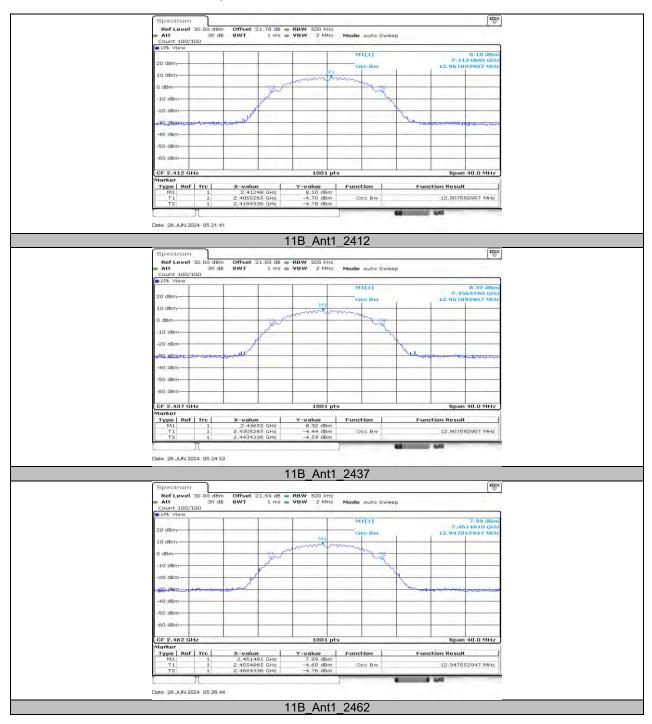
#### 11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 11.2.1. Test Result

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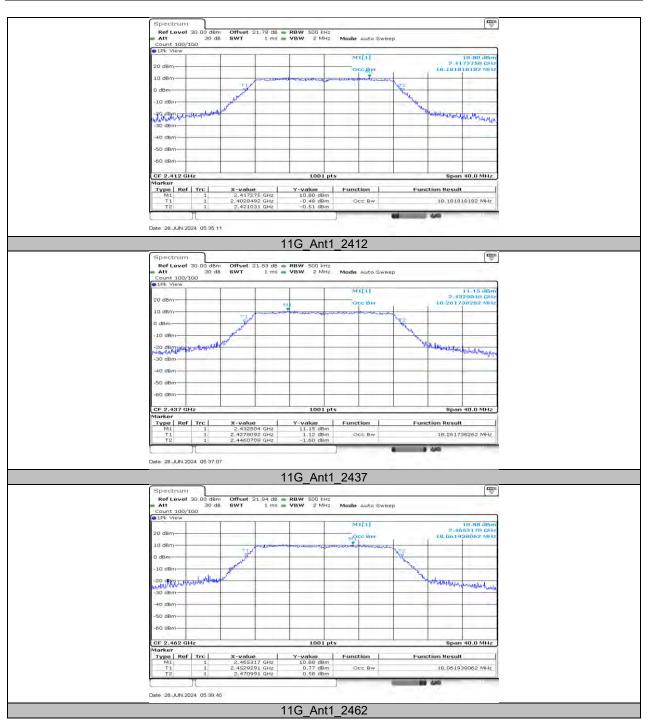




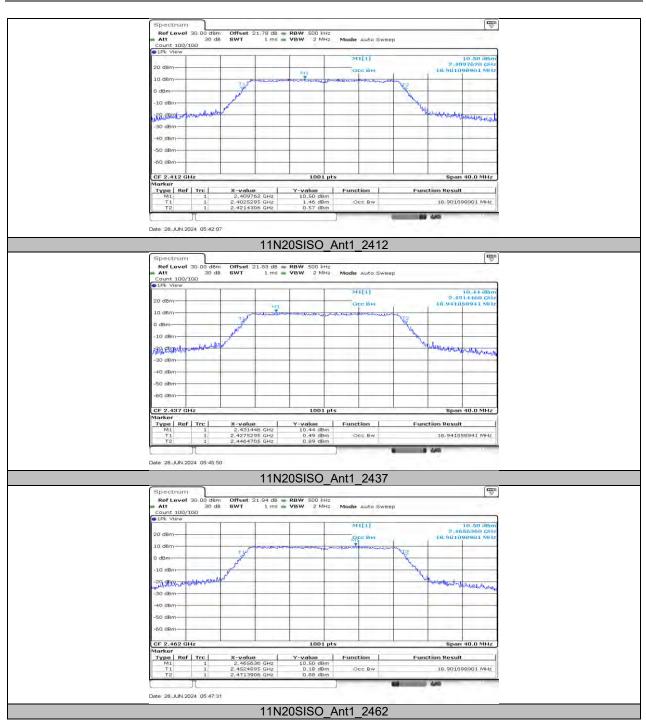
#### 11.2.2. Test Graphs



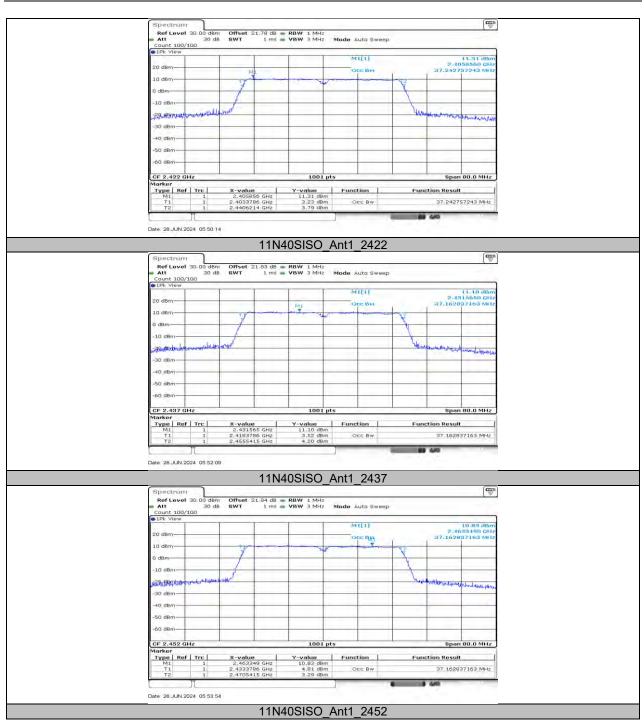




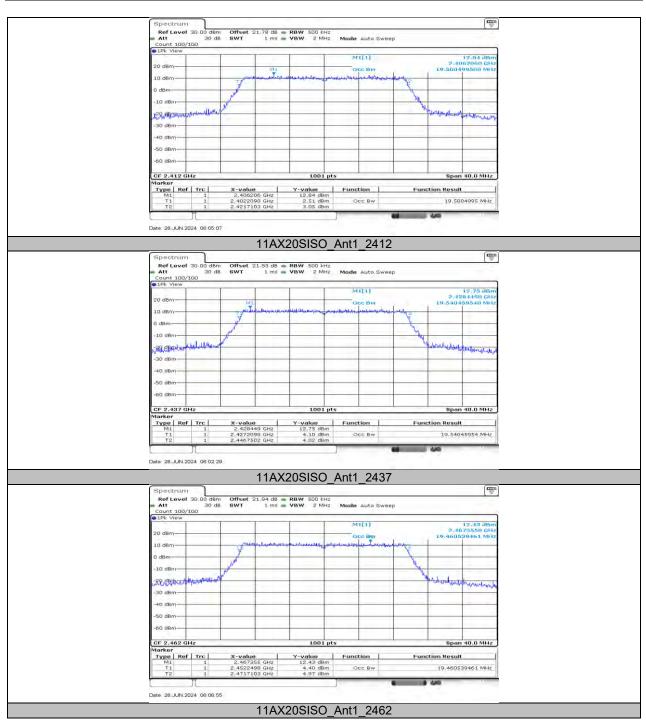




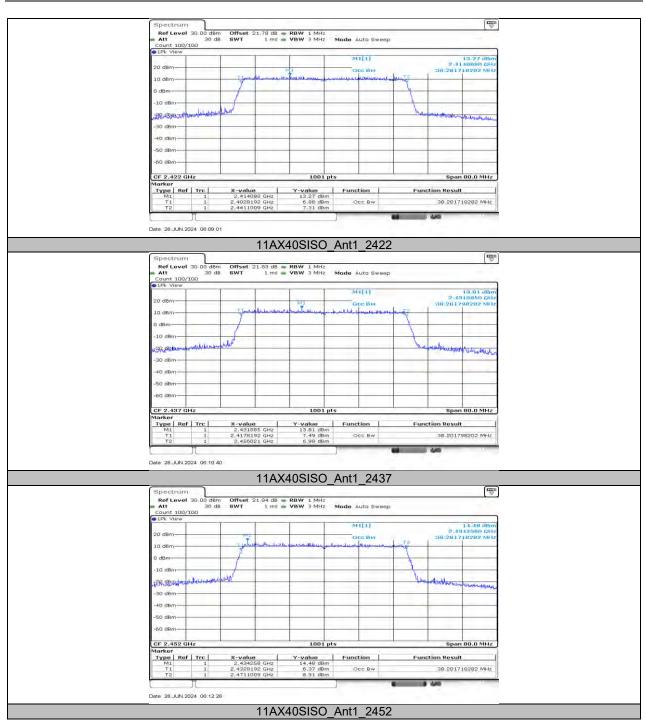














11.3.1.	Testr	<b>Kesun</b>			
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
		2412	15.74	≤30.00	PASS
11B	Ant1	2437	15.78	≤30.00	PASS
		2462	15.75	≤30.00	PASS
		2412	13.75	≤30.00	PASS
11G	Ant1	2437	13.57	≤30.00	PASS
		2462	12.87	≤30.00	PASS
		2412	11.93	≤30.00	PASS
11N20SISO	Ant1	2437	12.22	≤30.00	PASS
		2462	11.90	≤30.00	PASS
		2422	12.31	≤30.00	PASS
11N40SISO	Ant1	2437	11.94	≤30.00	PASS
		2452	11.33	≤30.00	PASS
		2412	12.12	≤30.00	PASS
11AX20SISO	Ant1	2437	11.88	≤30.00	PASS
		2462	11.45	≤30.00	PASS
		2422	16.31	≤30.00	PASS
11AX40SISO	Ant1	2437	16.57	≤30.00	PASS
		2452	16.33	≤30.00	PASS

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

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.



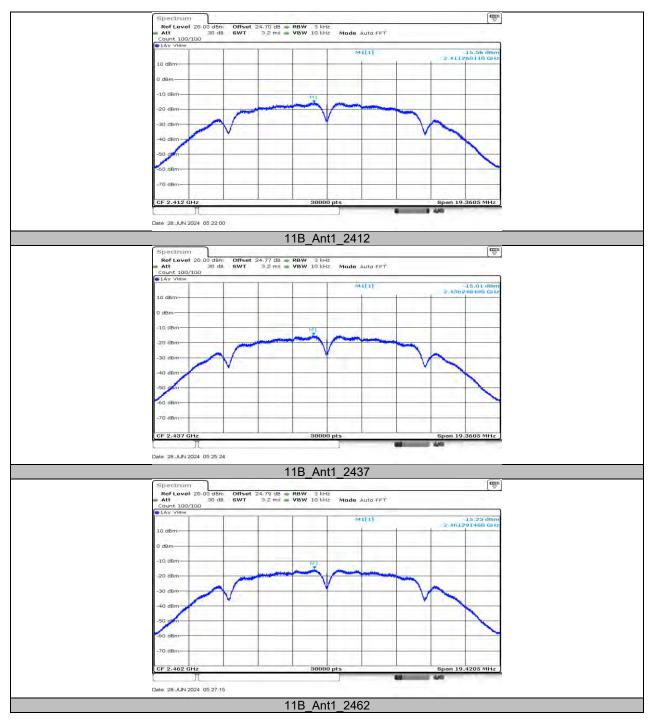
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-15.56	≤8.00	PASS
11B	Ant1	2437	-15.01	≤8.00	PASS
		2462	-15.23	≤8.00	PASS
		2412	-18.92	≤8.00	PASS
11G	Ant1	2437	-18.72	≤8.00	PASS
		2462	-20.12	≤8.00	PASS
	Ant1	2412	-20.08	≤8.00	PASS
11N20SISO		2437	-20.85	≤8.00	PASS
		2462	-20.90	≤8.00	PASS
		2422	-24.46	≤8.00	PASS
11N40SISO	Ant1	2437	-24.86	≤8.00	PASS
		2452	-25.21	≤8.00	PASS
		2412	-22.44	≤8.00	PASS
11AX20SISO	Ant1	2437	-22.98	≤8.00	PASS
		2462	-23.30	≤8.00	PASS
		2422	-21.42	≤8.00	PASS
11AX40SISO	Ant1	2437	-21.05	≤8.00	PASS
		2452	-21.39	≤8.00	PASS

## 11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY 11.4.1. Test Result

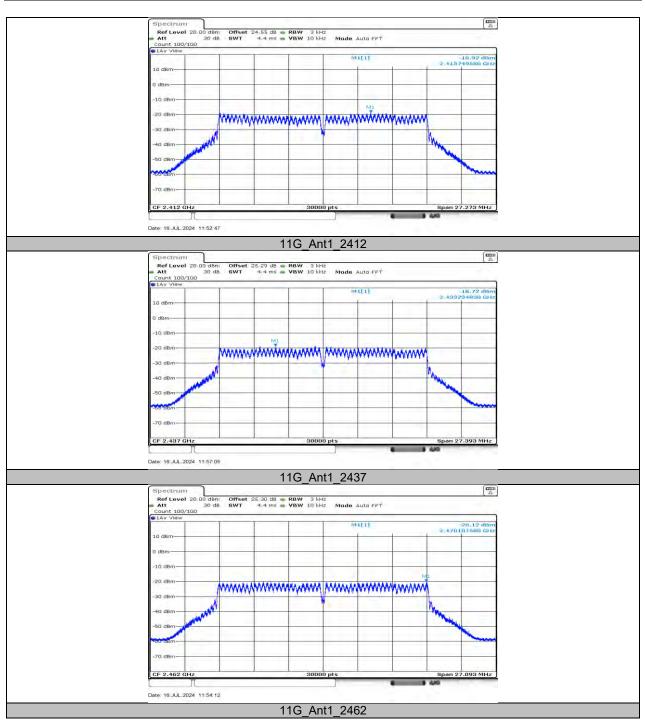
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.



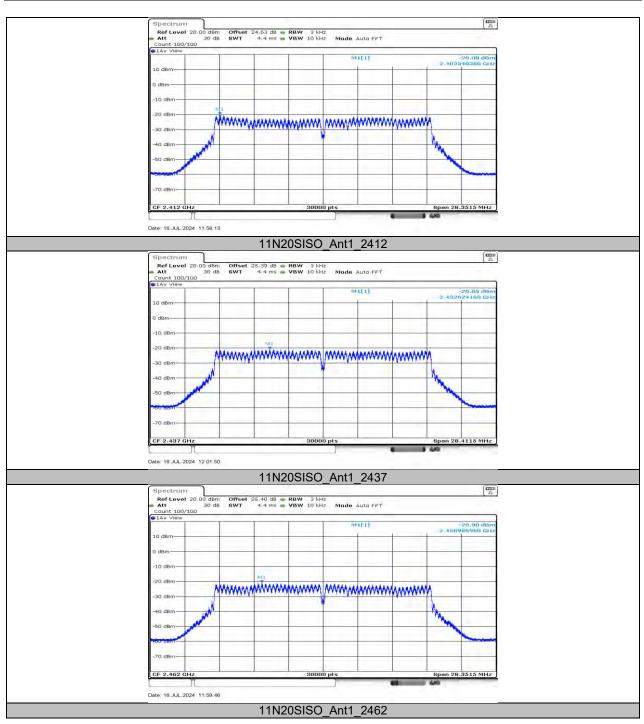
## 11.4.2. Test Graphs



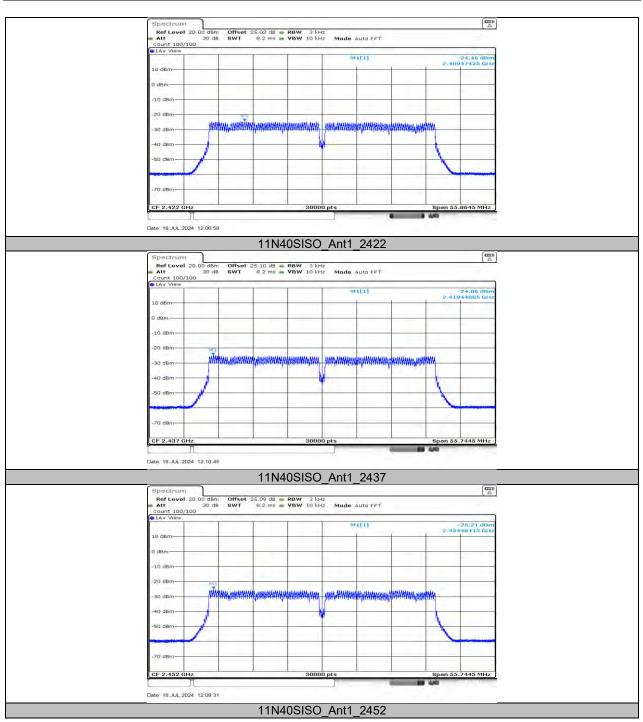




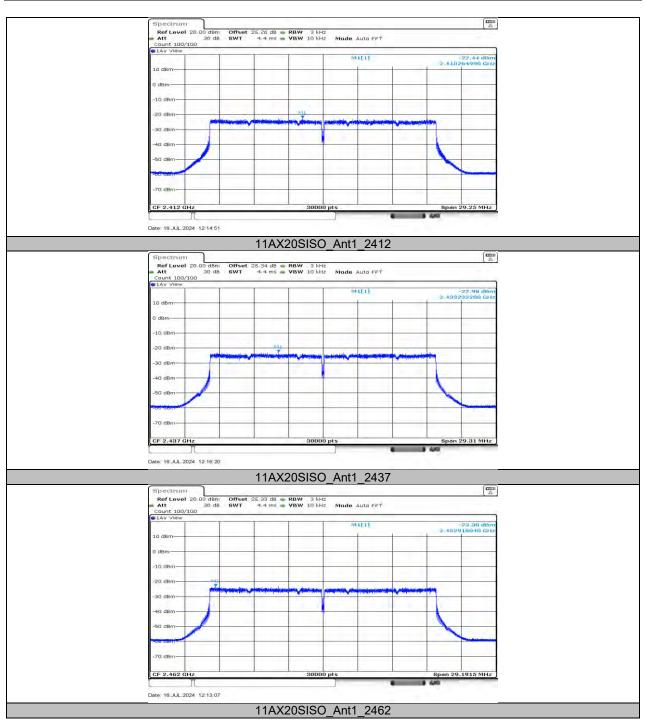




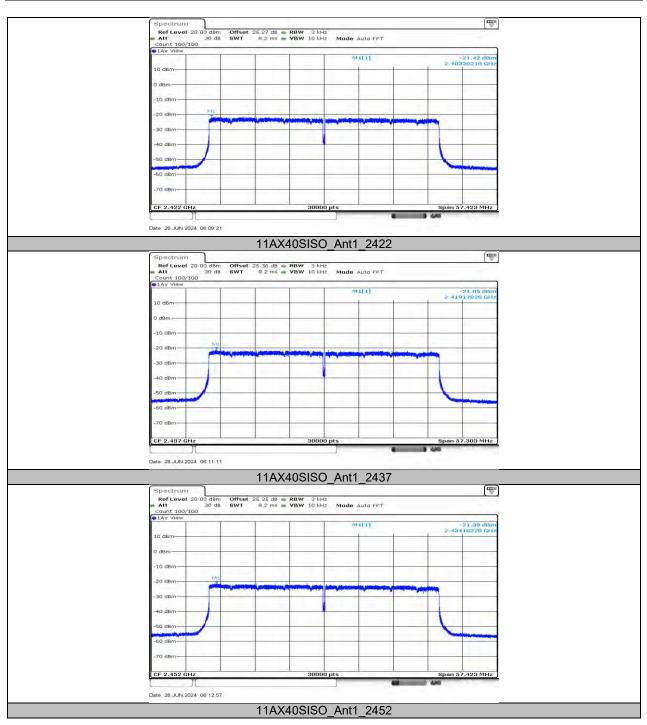














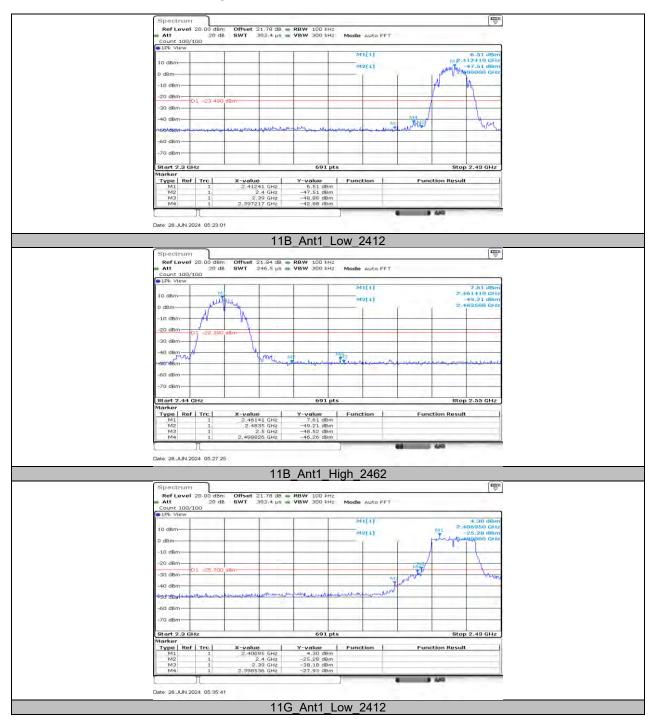
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.51	-42.88	≤-23.49	PASS
IID	Anti	High	2462	7.61	-46.26	≤-22.39	PASS
110	Apt1	Low	2412	4.30	-27.93	≤-25.7	PASS
11G	Ant1	High	2462	2.84	-39.09	≤-27.16	PASS
111000100	Anti	Low	2412	4.89	-28.11	≤-25.11	PASS
11N20SISO	Ant1	High	2462	5.45	-38.22	≤-24.55	PASS
441400100	A	Low	2422	0.70	-30.56	≤-29.3	PASS
11N40SISO	Ant1	High	2452	0.43	-34.71	≤-29.57	PASS
444,000,000	A	Low	2412	2.92	-28.42	≤-27.08	PASS
11AX20SISO	Ant1	High	2462	3.17	-35.17	≤-26.83	PASS
1147406160	Apt1	Low	2422	1.07	-30.51	≤-28.93	PASS
11AX40SISO	Ant1	High	2452	1.07	-34.09	≤-28.93	PASS

# 11.5. APPENDIX E: BAND EDGE MEASUREMENTS

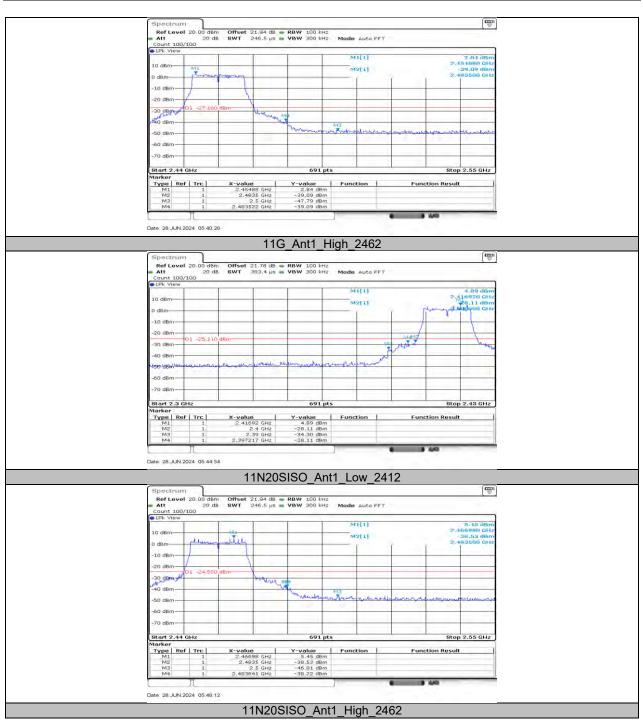
11.5.1. Test Result



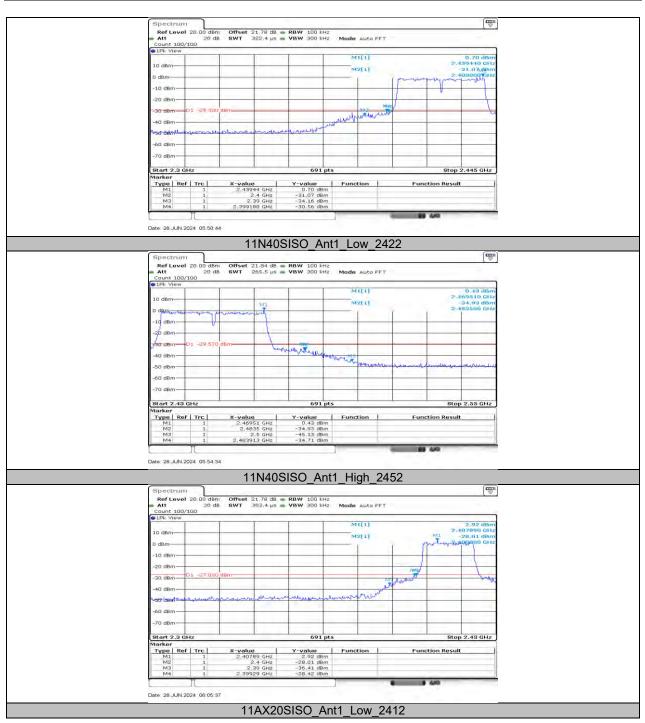
#### 11.5.2. Test Graphs



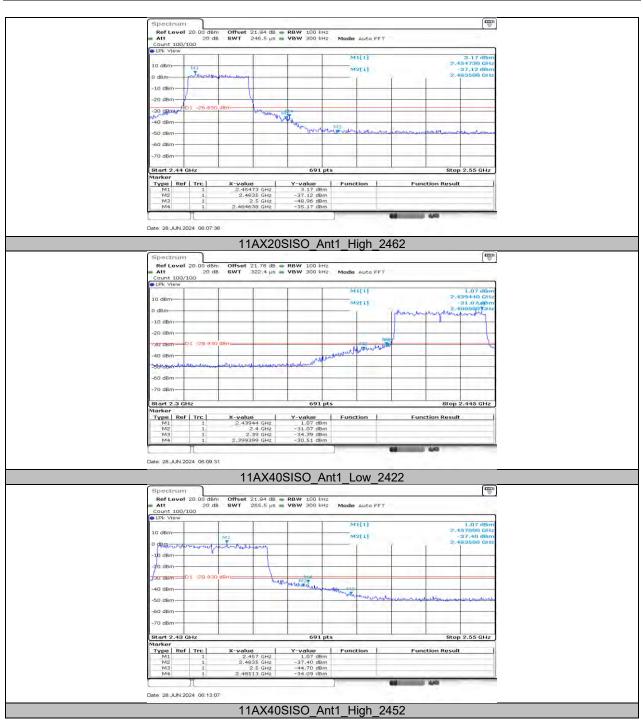














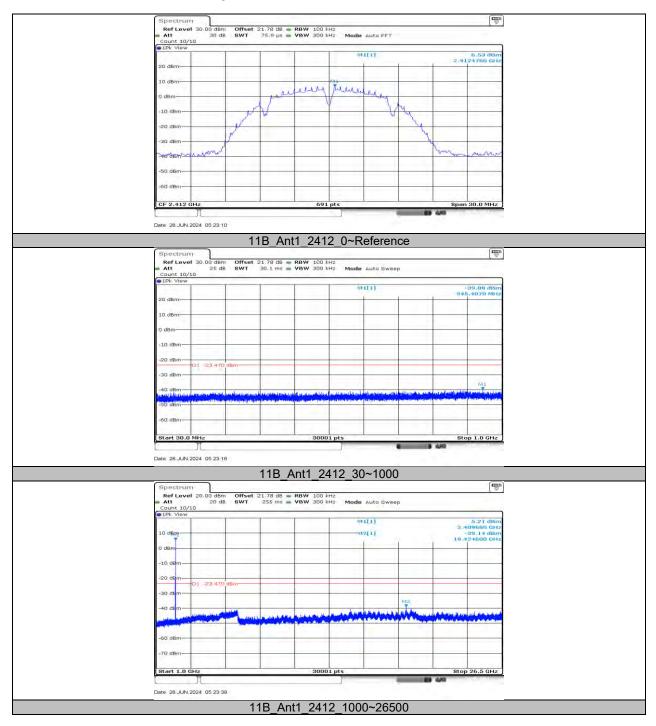
## 11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION 11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	6.53	[dbiii] 	PASS
		2412	30~1000	-39.88	≤-23.47	PASS
		2712	1000~26500	-39.14	≤-23.47	PASS
			Reference	7.62		PASS
11B	Ant1	2437	30~1000	-39.88	≤-22.38	PASS
110	74101	2407	1000~26500	-40.54	≤-22.38	PASS
			Reference	7.28		PASS
		2462	30~1000	-39.41	≤-22.72	PASS
		2102	1000~26500	-40.75	≤-22.72	PASS
			Reference	5.35		PASS
		2412	30~1000	-39.93	≤-24.65	PASS
		2712	1000~26500	-39.68	≤-24.65	PASS
			Reference	3.01		PASS
11G	Ant1	2437	30~1000	-39.91	≤-26.99	PASS
110		2407	1000~26500	-39.41	≤-26.99	PASS
			Reference	3.99		PASS
		2462	30~1000	-39.86	 ≤-26.01	PASS
		2402	1000~26500	-39.86	<u>≤-26.01</u> ≤-26.01	PASS
			Reference	3.77	<u> </u>	PASS
		2412	30~1000	-40.39	 ≤-26.23	PASS
		2412	1000~26500			PASS
				-40.31 5.50	≤-26.23	
441000000	A 14	2437	Reference			PASS
11N20SISO	Ant1		30~1000	-39.13	≤-24.5	PASS
	-	2462	1000~26500	-40.35	≤-24.5	PASS
			Reference	5.39		PASS
			30~1000	-40.07	≤-24.61	PASS
			1000~26500	-40.36	≤-24.61	PASS
		2422	Reference	1.34		PASS
			30~1000	-39.67	≤-28.66	PASS
			1000~26500	-40.67	≤-28.66	PASS
		0.407	Reference	1.10		PASS
11N40SISO	Ant1	2437	30~1000	-39.19	≤-28.9	PASS
			1000~26500	-39.52	≤-28.9	PASS
		2452	Reference	2.93		PASS
			30~1000	-39.38	≤-27.07	PASS
			1000~26500	-40.34	≤-27.07	PASS
			Reference	4.78		PASS
		2412	30~1000	-39.42	≤-25.22	PASS
			1000~26500	-40.12	≤-25.22	PASS
			Reference	3.16		PASS
11AX20SISO	Ant1	2437	30~1000	-39.05	≤-26.84	PASS
			1000~26500	-39.8	≤-26.84	PASS
			Reference	3.38		PASS
		2462	30~1000	-40.18	≤-26.62	PASS
			1000~26500	-40.11	≤-26.62	PASS
			Reference	1.02		PASS
		2422	30~1000	-39.8	≤-28.98	PASS
			1000~26500	-39.63	≤-28.98	PASS
			Reference	0.66		PASS
11AX40SISO	Ant1	2437	30~1000	-39.42	≤-29.34	PASS
			1000~26500	-39.73	≤-29.34	PASS
			Reference	1.34		PASS
		2452	30~1000	-39.68	≤-28.66	PASS
			1000~26500	-40.52	≤-28.66	PASS

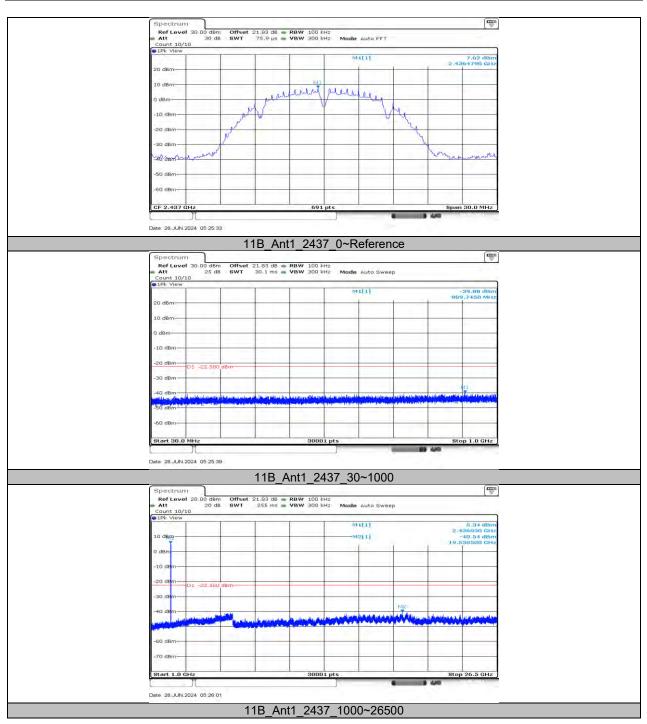
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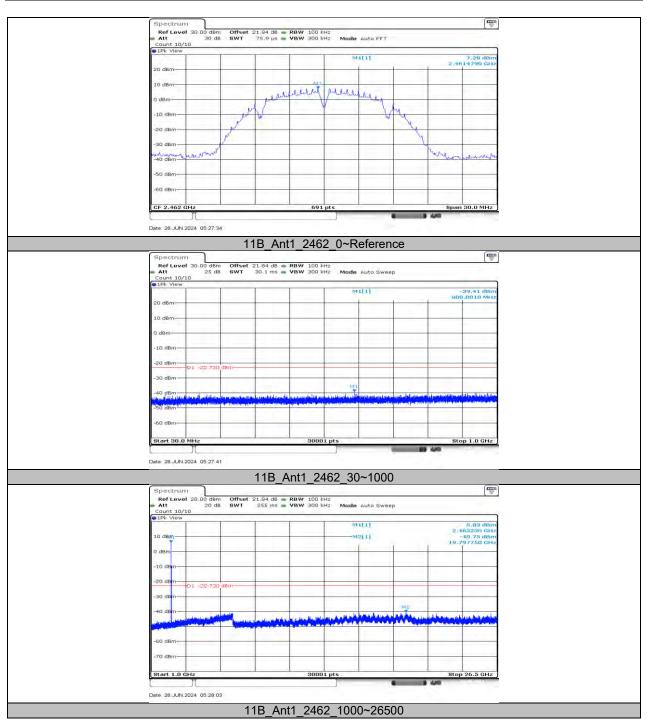
#### 11.6.2. Test Graphs



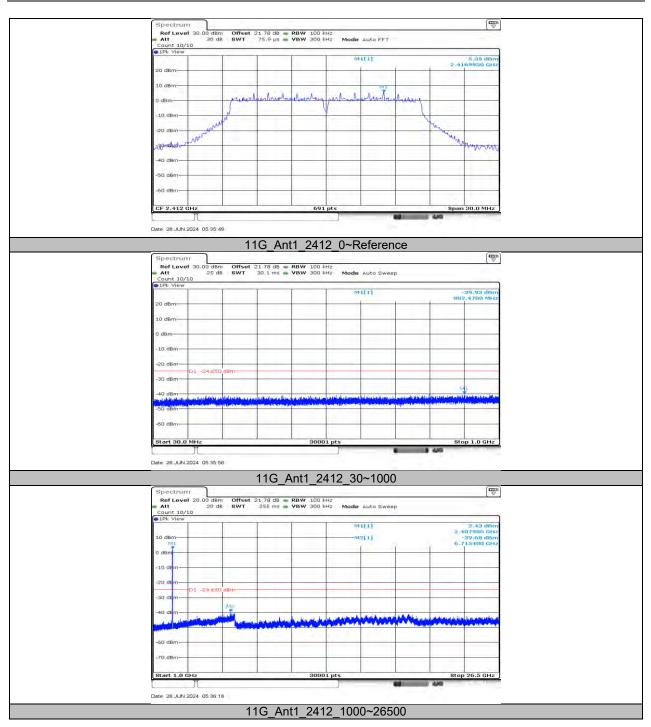




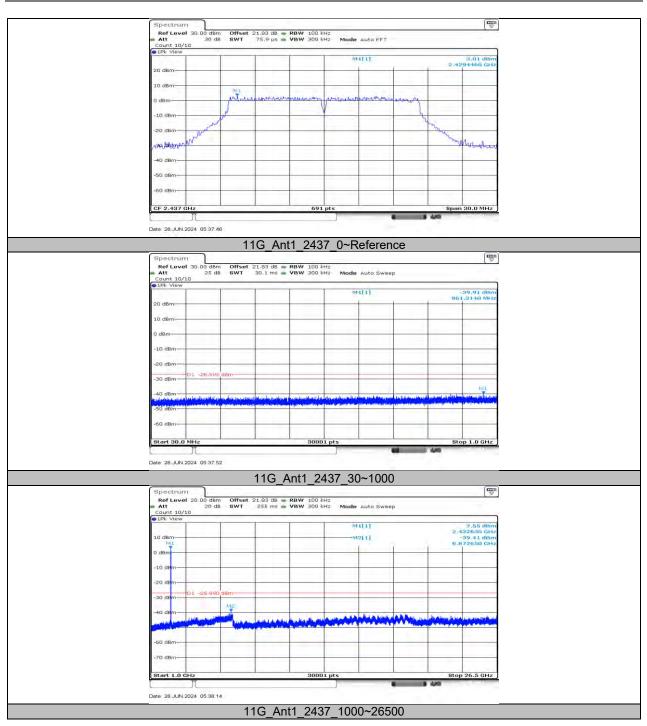




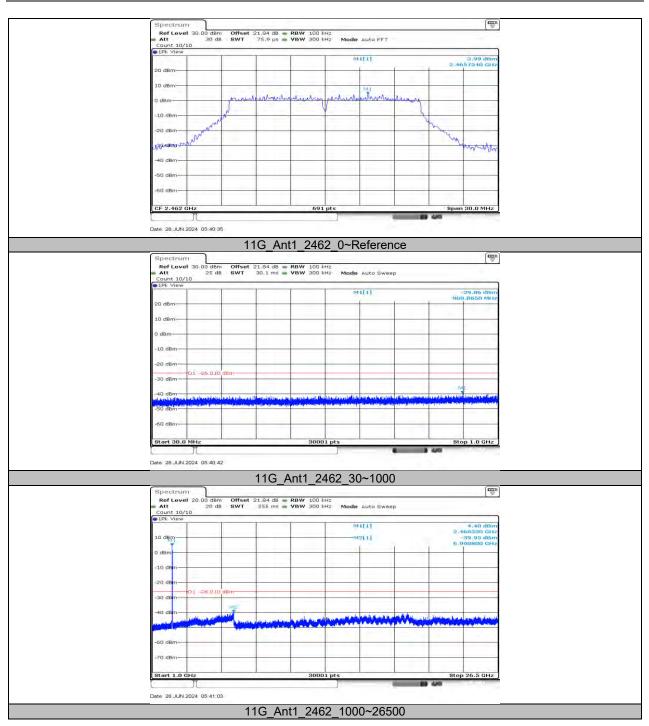




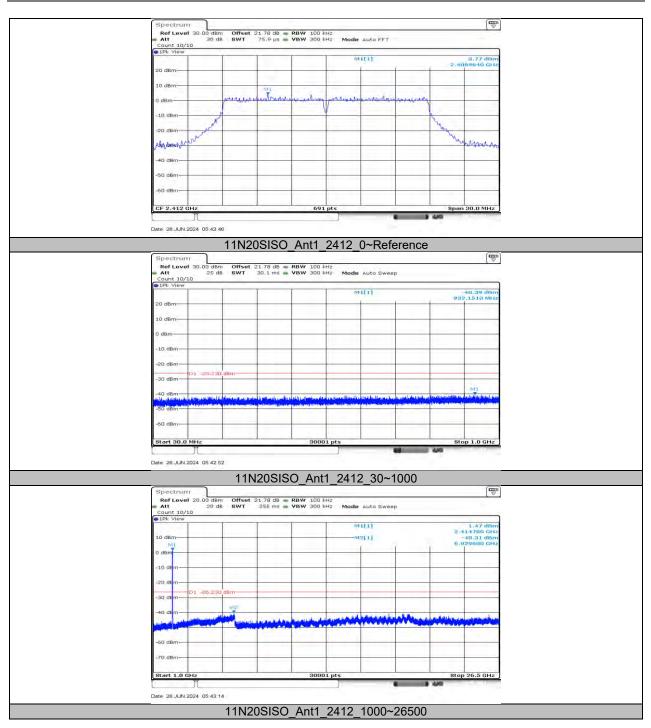




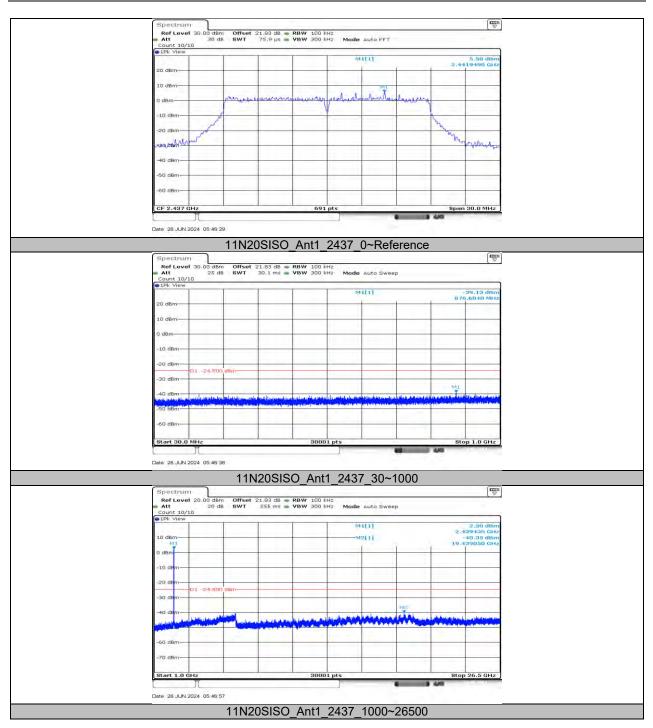




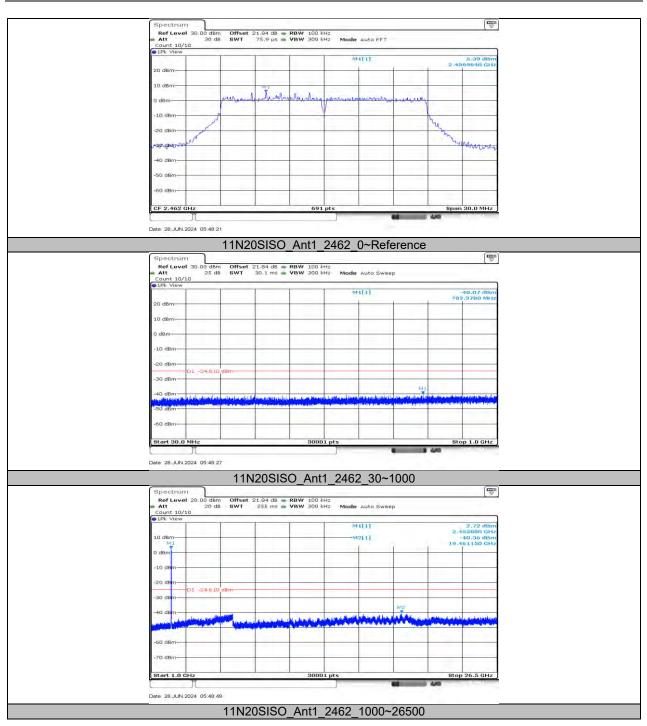




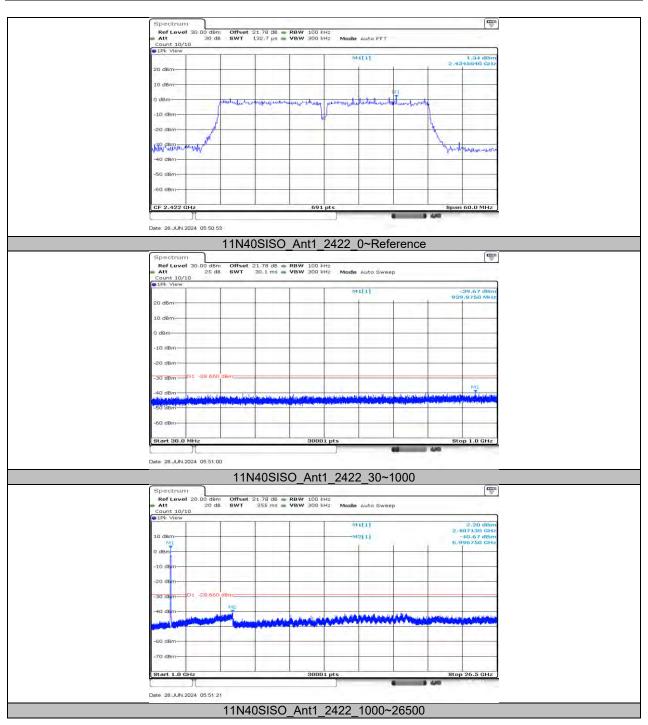




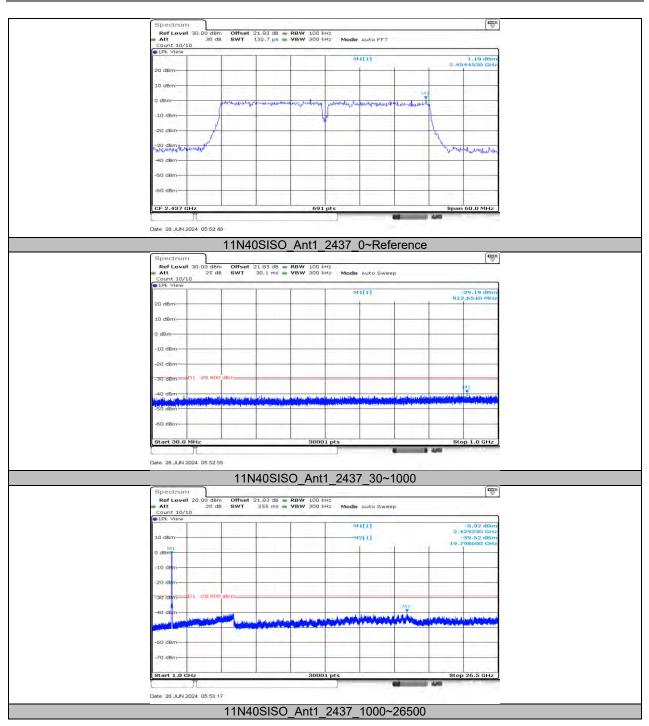




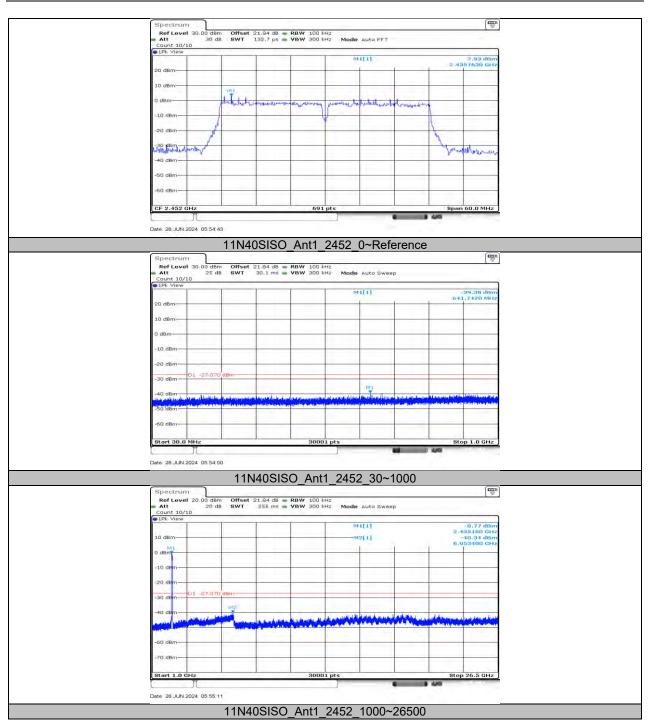




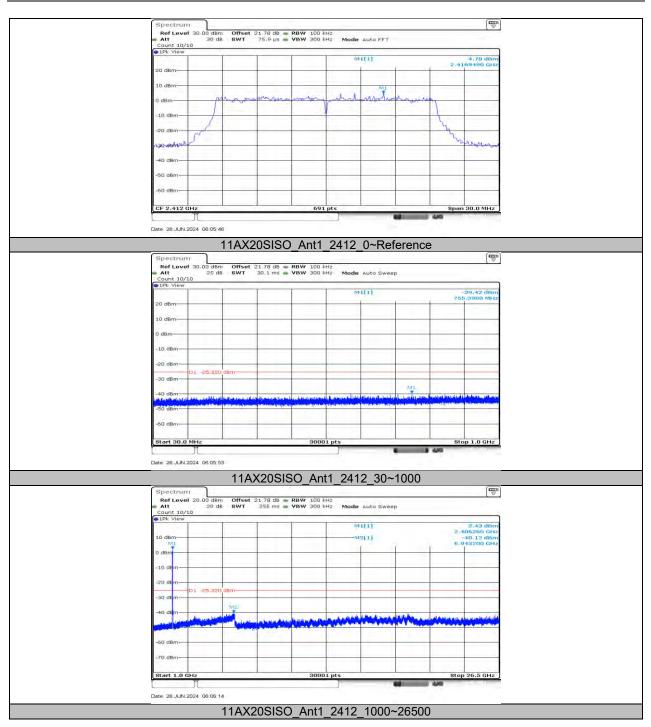




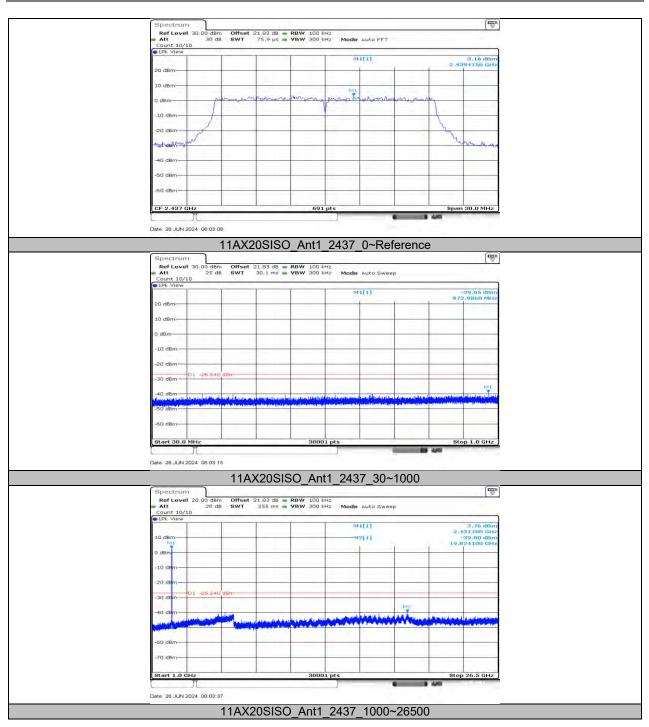




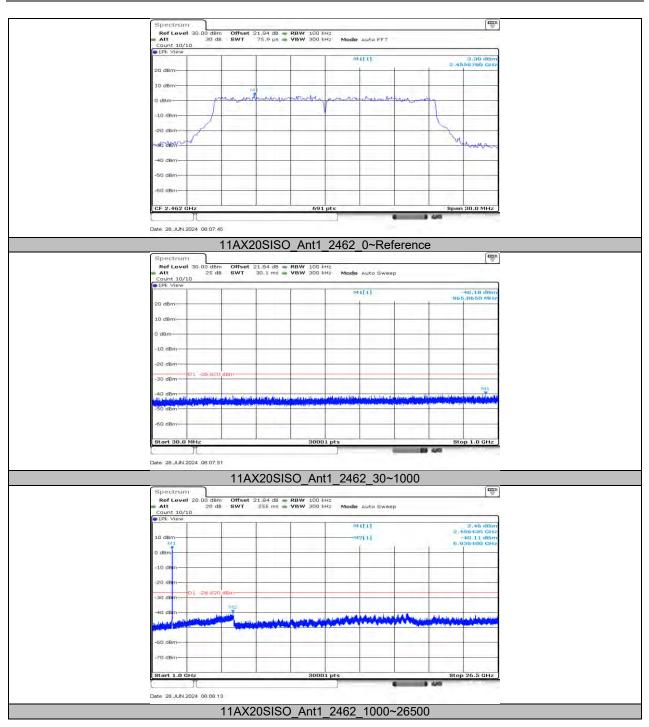




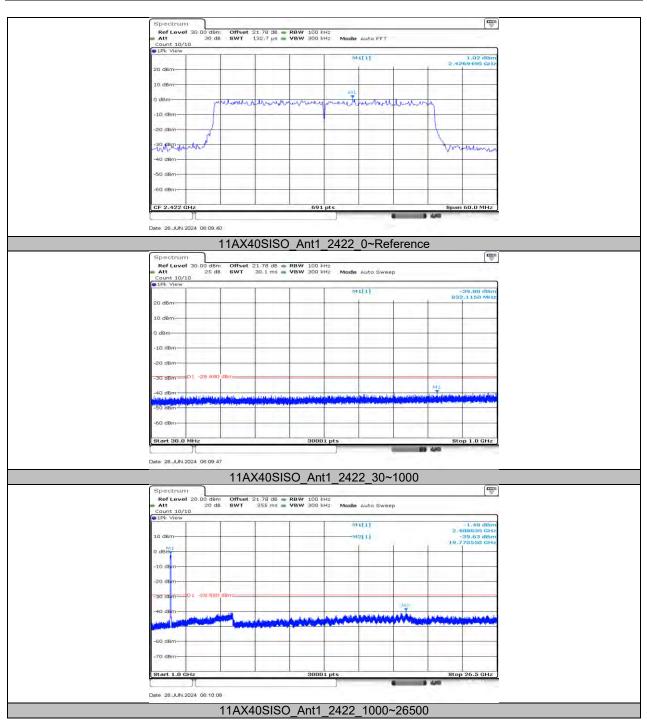




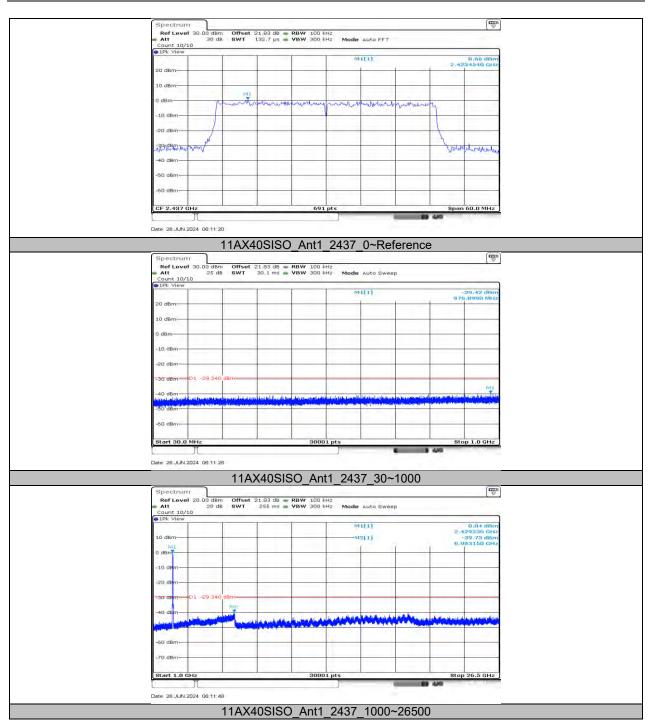




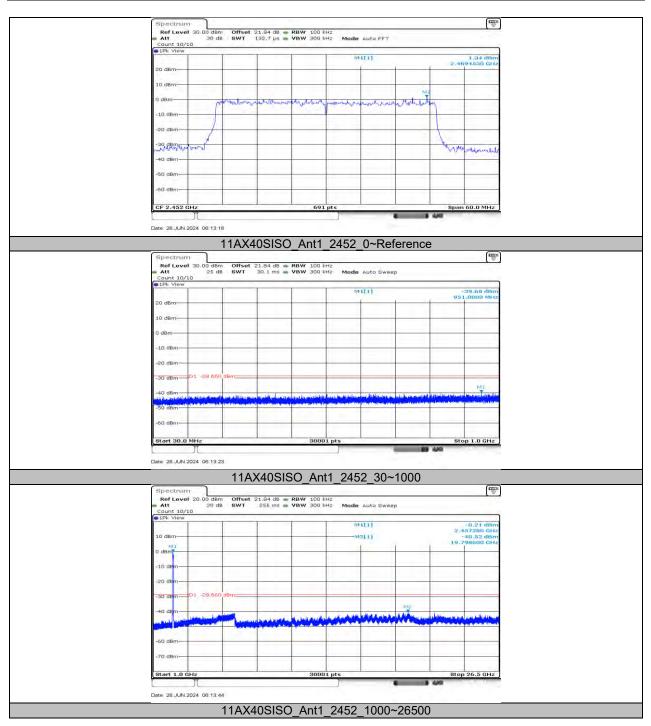














## 11.7. APPENDIX G: DUTY CYCLE 11.7.1. Test Result

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)
11B	12.43	24.35	0.5105	51.05	2.92	0.08	1
11G	5.47	10.34	0.5290	52.90	2.77	0.18	1
11N20SISO	5.37	10.34	0.5193	51.93	2.85	0.19	1
11N40SISO	3.01	6.35	0.4740	47.40	3.24	0.33	1
11AX20SISO	4.63	10.32	0.4486	44.86	3.48	0.22	1
11AX40SISO	4.63	10.34	0.4478	44.78	3.49	0.22	1

Note:

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

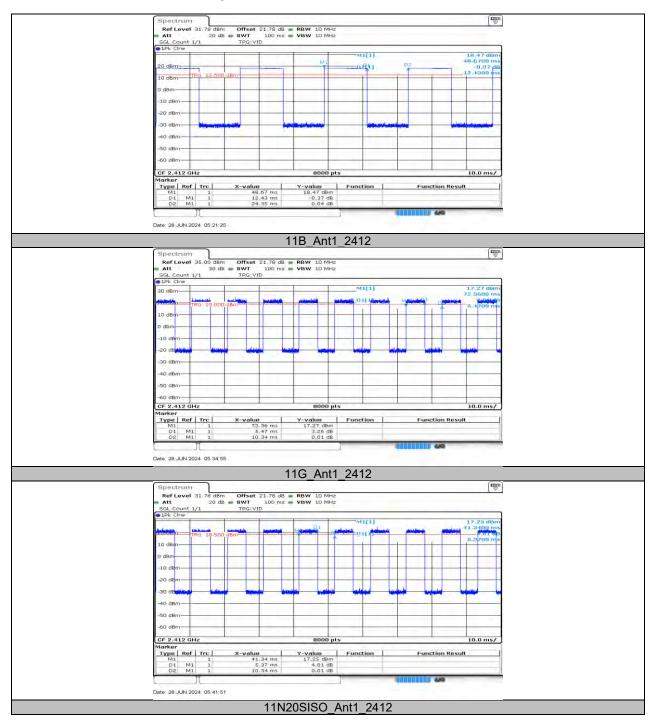
Where: x is Duty Cycle (Linear)

Where: T is On Time

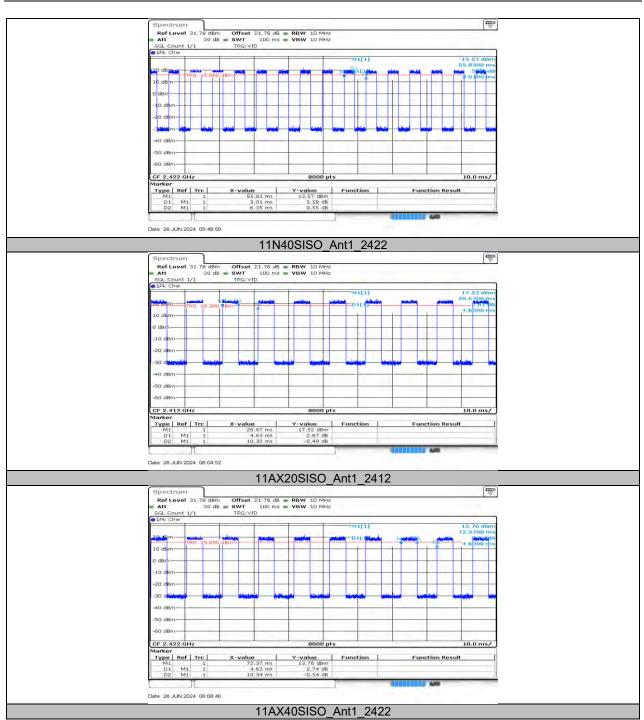
If that calculated VBW is not available on the analyzer then the next higher value should be used.



## 11.7.2. Test Graphs







## **END OF REPORT**