



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

## TEST REPORT

For

## **Skylight Frame 2**

## MODEL NUMBER: 102-FRM

## REPORT NUMBER: 4791339609-1-RF-1

## ISSUE DATE: August 9, 2024

## FCC ID:2BF8S-102-1 IC:26595-1021

Prepared for

Glimpse LLC 101a Clay Street #144, San Francisco, CA 94111, USA

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.



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## 1. ATTESTATION OF TEST RESULTS

#### Applicant Information

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

## 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:	June 26, 2024 to August 9, 2024

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

Prepared By:

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kebo. shory

Checked By:

Kebo Zhang Senior Project Engineer

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Approved By:

Stephen

Stephen Guo Operations Manager



# 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-1

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 5V

## 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	Channel Frequency (MHz) Channel			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]	15.87	19.13
g	2412 ~ 2462	1-11[11]	14.77	18.03
n HT20	2412 ~ 2462	1-11[11]	13.22	16.48
n HT40	2422 ~ 2452	3-9[7]	12.93	16.19
ax HE20	2412 ~ 2462	1-11[11]	16.23	19.49
ax HE40	2422 ~ 2452	3-9[7]	16.39	19.65

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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

## 5.5. THE WORSE CASE POWER SETTING PARAMETER

The W	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Softw	/are			A	DB				
	Transmit		Test Channel						
Modulation Mode	Antenna		NCB: 20MH	Iz	١	ICB: 40MHz			
Widde	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9		
802.11b	1	17.5	17.5	17.5					
802.11g	1	16	16	15		/			
802.11n HT20	1	17.5	17.5	17.5	]				
802.11n HT40	1		/		17.5 17.5 17.5				
802.11ax HE20	1	17.5	17.5	17.5	/				
802.11ax HE40	1		/		17.5	17.5	17.5		



## 5.6. 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.



## 5.7. DESCRIPTION OF AVAILABLE ANTENNAS

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

Test Mode	Transmit and Receive Mode	Description					
IEEE 802.11b	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					
IEEE 802.11g	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					
IEEE 802.11n HT20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					
IEEE 802.11n HT40	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					
IEEE 802.11ax HE20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					
IEEE 802.11ax HE40	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.					



## 5.8. 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	/

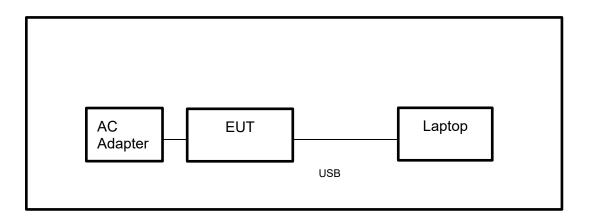
## ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	/	TPQ- 228F050300UW01	Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5V, 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				Model	No.	Serial No.	Last C	Cal.	Due. Date
Power sensor, Power N	leter	R&S	5	OSP1	20	100921	Mar.25,	2024	Mar.24,2025
Vector Signal Genera	tor	R&S	6	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator		R&S	6	SMB10	00A	178553	Oct.12,	2023	Oct.11, 2024
Signal Analyzer		R&S	\$	FSV4	10	101118	Oct.12,	2023	Oct.11, 2024
		1		Softwa	re				
Description		Ν	Manuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em Rol	hde &	Schwai	z	EMC	32		10.60.10
		То	nsen	d RF Te	st S	ystem			
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	0 1201.0002N75- 102		Sep.25, 2023		Sep.24, 2024
PXA Signal Analyzer	Ke	eysight	N9	030A	A MY55410512		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	ΜY	⁄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	NMOOD	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	turer	Name Versio			Version		
Tonsend SRD Test Sys	tem	Tonser	nd	JS1	120-:	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						
	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

## <u>LIMITS</u>

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

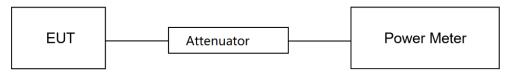
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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 5V

#### 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
IRR///	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

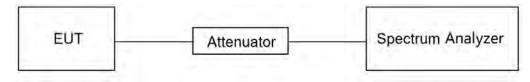
a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

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 5V

## 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.

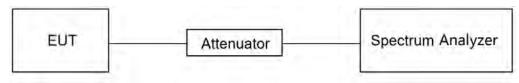
Connect the EUT to the spectrum analyzer and use the following settings:

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 5V

#### **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.

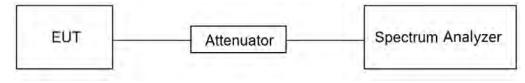
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

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> °C	Relative Humidity	54.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V



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

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

## TEST RESULTS

Please refer to section "Test Data" - Appendix E



## 7.5. DUTY CYCLE

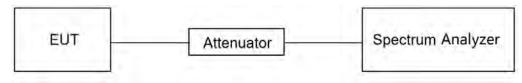
## <u>LIMITS</u>

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 5V

## TEST DATE / ENGINEER

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

## 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 radiated outside of the specified frequency bands above 30 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 Averag		
	300	74	54	

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

## ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz			
Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)	
9 - 490 kHz <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	158.52475 - 158.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	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
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 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	
13.38 - 13.41	3260 - 3267	
18.42 - 18.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
18.80425 - 18.80475	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 38.6 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.

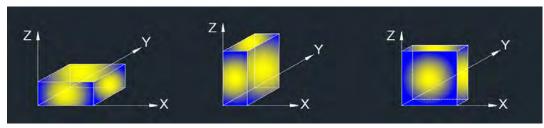
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations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

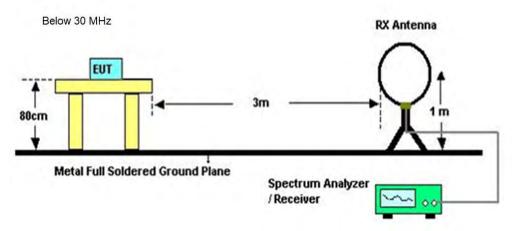
1. Measurement = Reading Level + Correct Factor.

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.

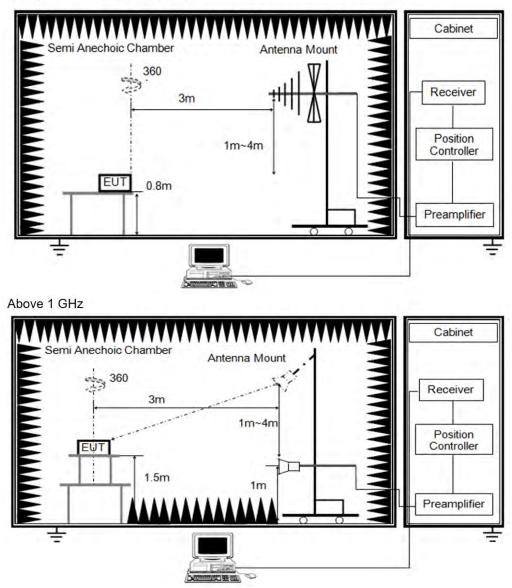
4. All modes have been tested, but only the worst data was recorded in the report.

## TEST SETUP





Below 1 GHz and above 30 MHz



#### **TEST ENVIRONMENT**

Temperature	<b>21.6</b> ℃	Relative Humidity	63.5%
Atmosphere Pressure	101kPa	Test Voltage	

#### TEST DATE / ENGINEER

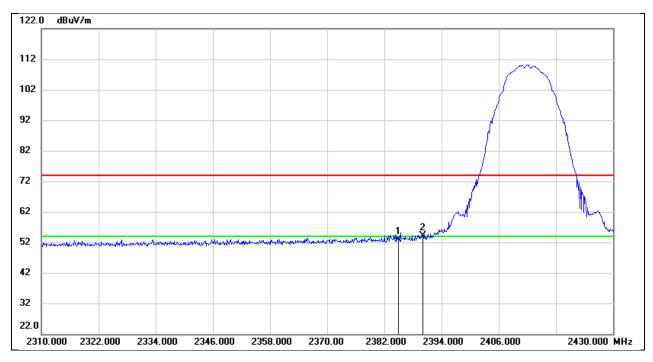
Test Date	August 8, 2024	Test By	Mason Wang
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#### TEST RESULTS



# 8.1. RESTRICTED BANDEDGE

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.000	20.08	32.90	52.98	74.00	-21.02	peak
2	2390.000	21.24	32.92	54.16	74.00	-19.84	peak



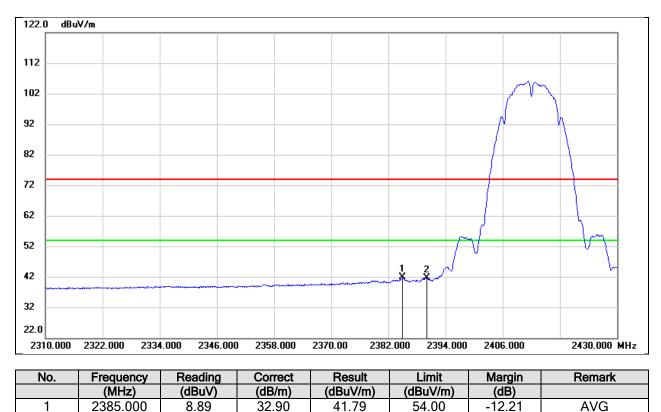
2

2390.000

8.71

32.92

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



41.63

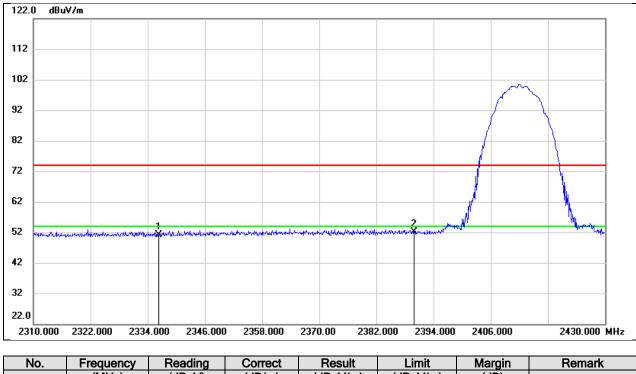
54.00

-12.37

AVG



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



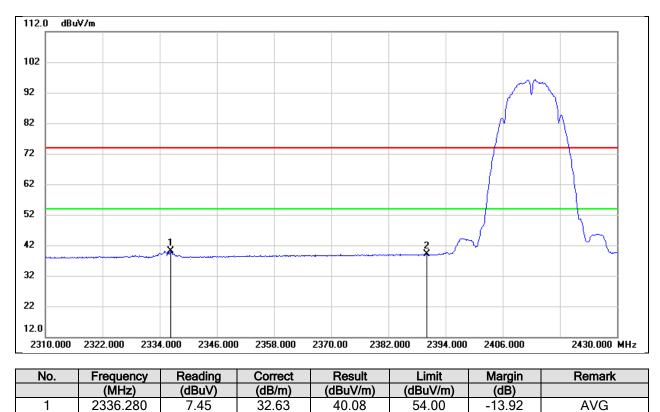
NO.	Trequency	rteauing		Result	LIIIIL	Iviaryin	Itemark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2336.280	18.47	32.63	51.10	74.00	-22.90	peak
2	2390.000	19.14	32.92	52.06	74.00	-21.94	peak



2

2390.000

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



39.16

54.00

-14.84

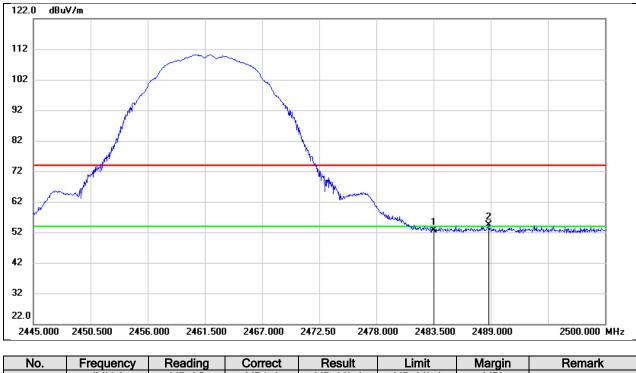
AVG

6.24

32.92



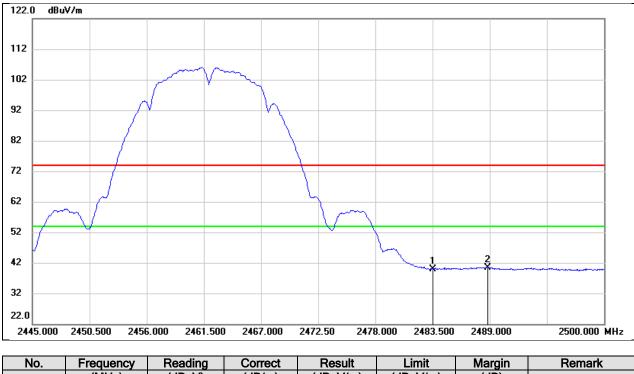
Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



140.	Trequency	rteauing	Conect	Result	LIIIIL	warym	Itemark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.59	32.94	52.53	74.00	-21.47	peak
2	2488.835	21.54	32.93	54.47	74.00	-19.53	peak



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



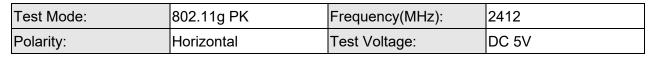
	NO.	Trequency	rteauing	Conect	Result	LIIIIL	Iviaryin	Tternark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Γ	1	2483.500	7.06	32.94	40.00	54.00	-14.00	AVG
Γ	2	2488.835	7.47	32.93	40.40	54.00	-13.60	AVG

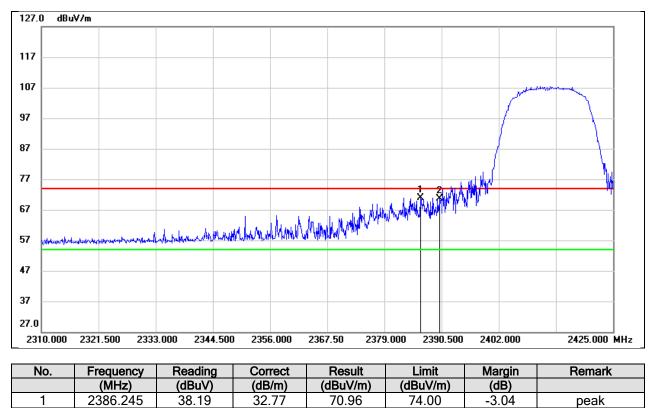


2390.000

37.87

32.79





70.66

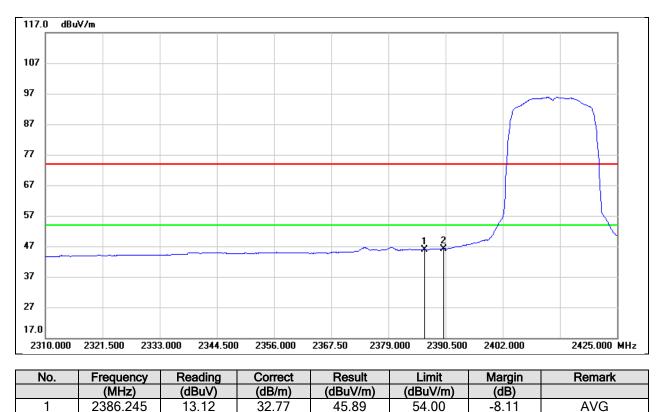
74.00

-3.34



2390.000

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



46.19

54.00

-7.81

AVG

13.40

32.79

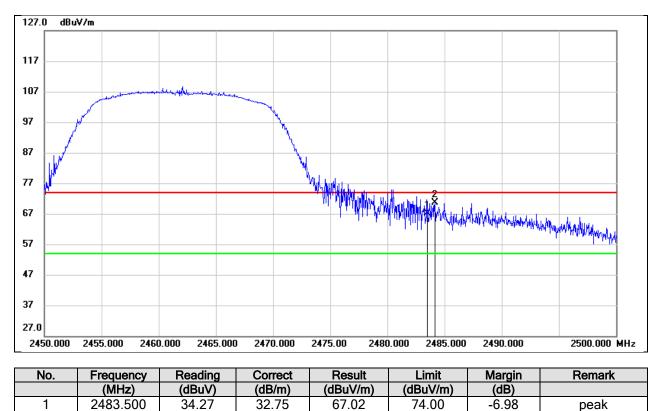


2484.150

37.97

32.75

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



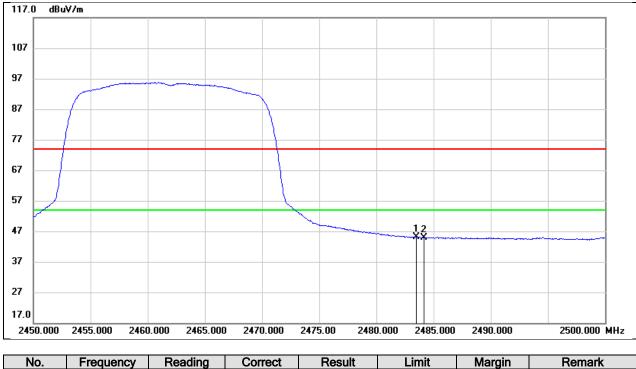
70.72

74.00

-3.28



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

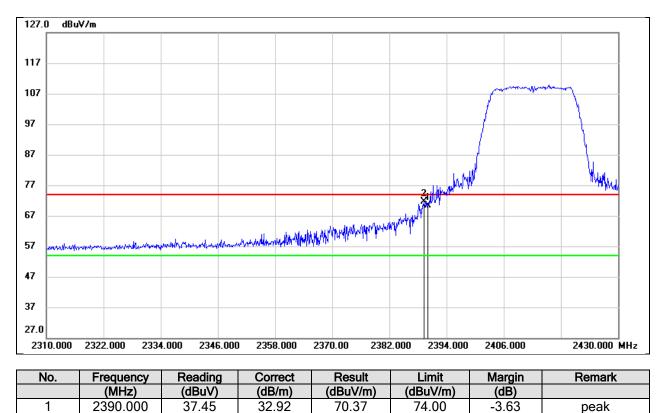


	NO.	Trequency	rteauing	Conect	Result	LIIIIL	warym	Itemark
ſ		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ſ	1	2483.500	12.42	32.75	45.17	54.00	-8.83	AVG
ſ	2	2484.150	12.17	32.75	44.92	54.00	-9.08	AVG



2389.200

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



71.69

74.00

-2.31

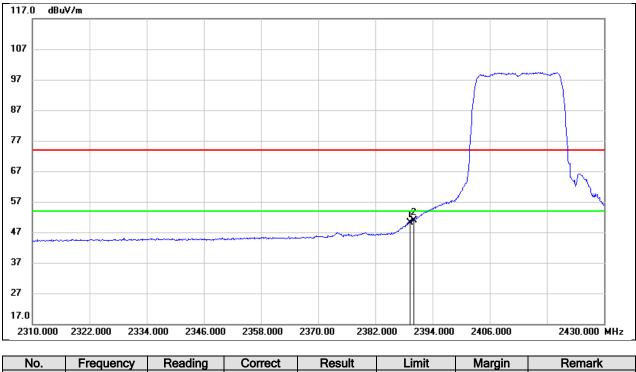
peak

38.77

32.92



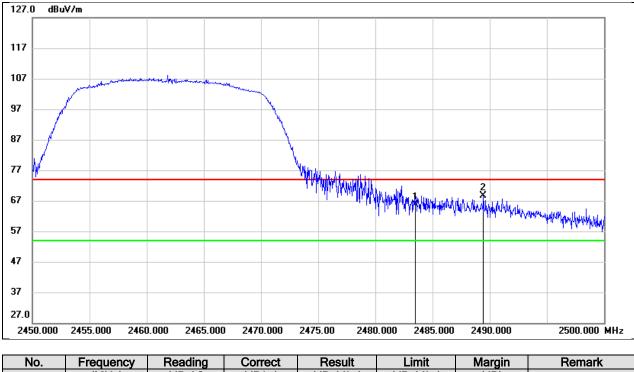
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



INU.	Frequency	Reauling	Coneci	Result	LIIIIL	warym	Reillaik
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.200	17.27	32.92	50.19	54.00	-3.81	AVG
2	2390.000	18.08	32.92	51.00	54.00	-3.00	AVG



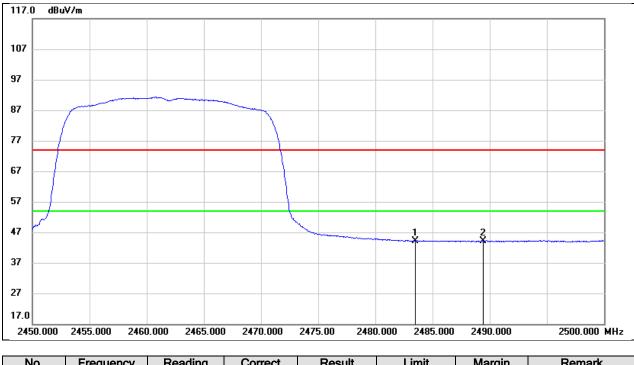
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



	NO.	Trequency	rteauing	Conect	Result	LIIIIL	Iviaryin	Itemark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Γ	1	2483.500	32.78	32.75	65.53	74.00	-8.47	peak
ſ	2	2489.450	35.97	32.74	68.71	74.00	-5.29	peak



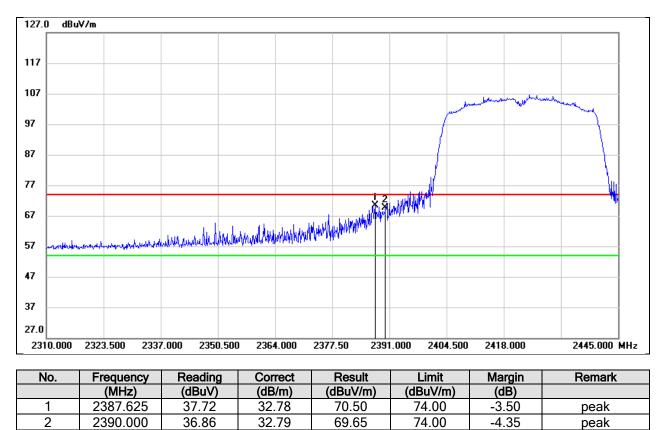
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



NO.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	11.45	32.75	44.20	54.00	-9.80	AVG
2	2489.450	11.28	32.74	44.02	54.00	-9.98	AVG



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



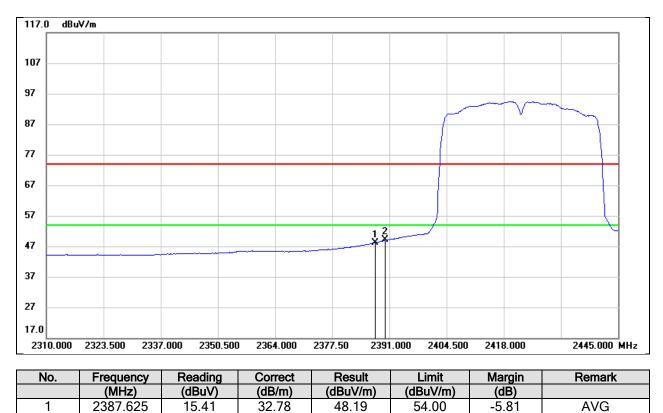


2390.000

16.33

32.79

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



49.12

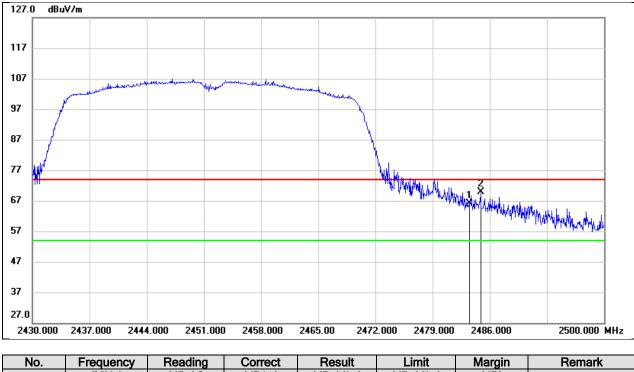
54.00

-4.88

AVG



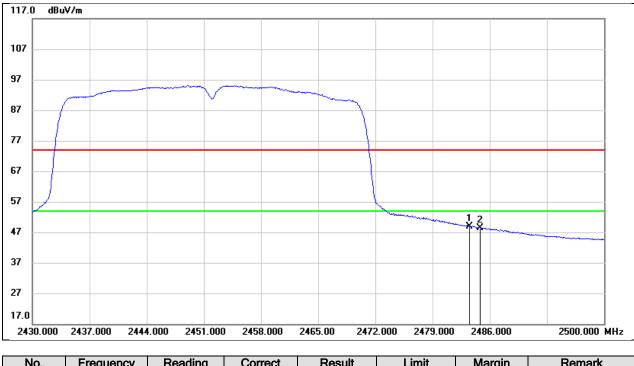
Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5V



1	110.	Troquonoy	riodaling	Concor	1 (Obdit		Margin	Ttomark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	33.29	32.75	66.04	74.00	-7.96	peak
	2	2484.880	37.01	32.75	69.76	74.00	-4.24	peak



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



NO.	Frequency	Reading	Correct	Result	Limit	margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	16.25	32.75	49.00	54.00	-5.00	AVG
2	2484.880	15.75	32.75	48.50	54.00	-5.50	AVG

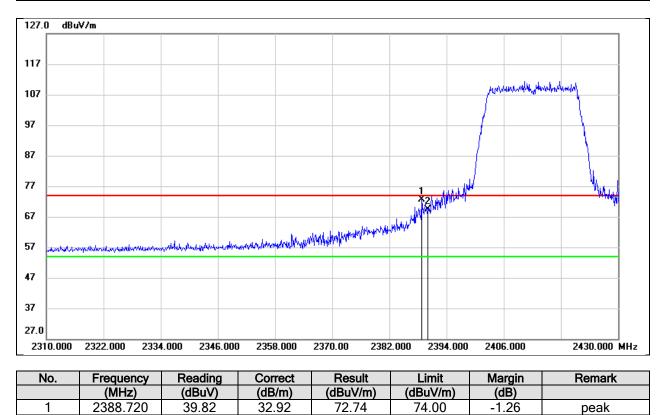


2390.000

36.43

32.92

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



69.35

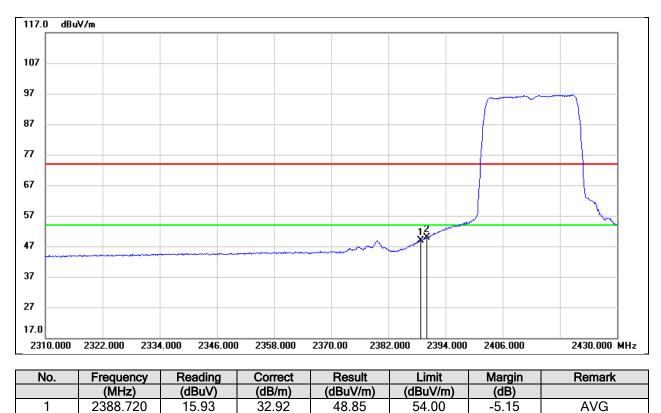
74.00

-4.65



2390.000

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



49.94

54.00

-4.06

AVG

32.92

17.02

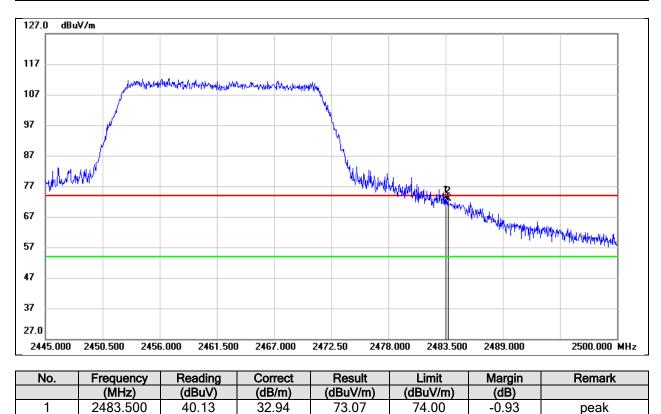


2483.720

40.04

32.94

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



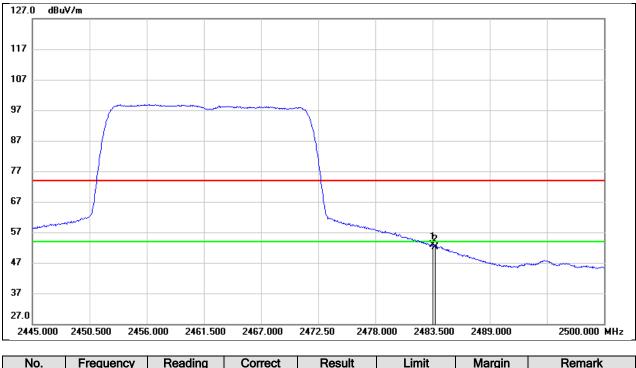
72.98

74.00

-1.02



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



	INO.	Frequency	Reading	Conect	Result		waryin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	19.82	32.94	52.76	54.00	-1.24	AVG
ſ	2	2483.720	19.24	32.94	52.18	54.00	-1.82	AVG

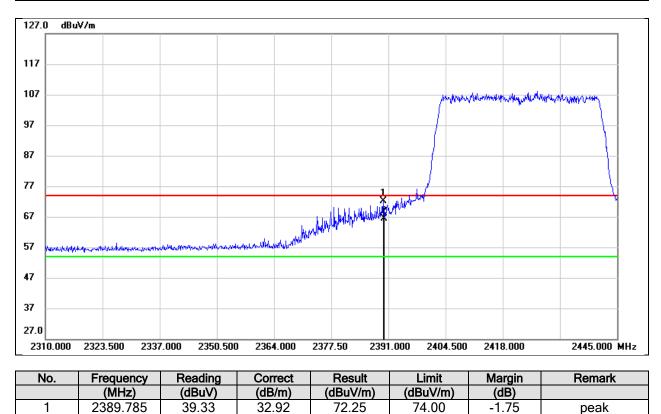


2390.000

33.43

32.92

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



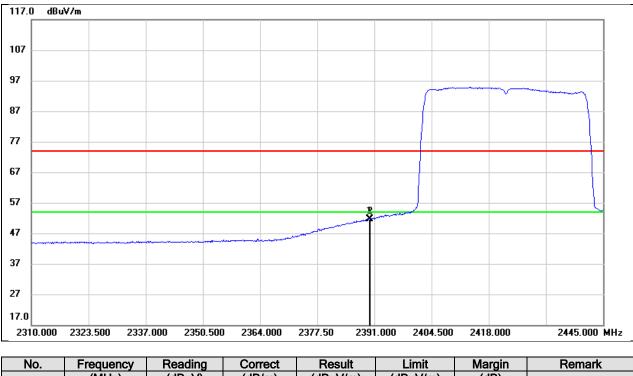
66.35

74.00

-7.65



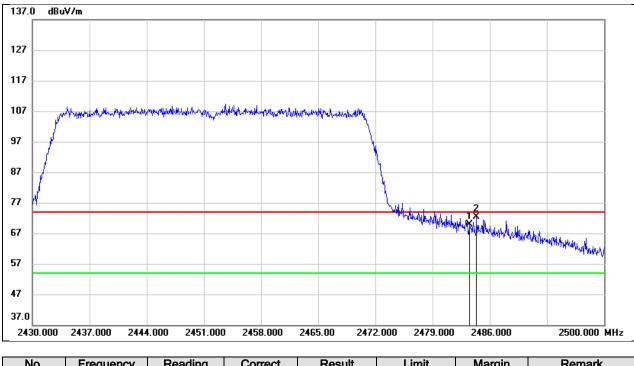
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5V



INO.	Frequency	Reauling	Coneci	Result	LIIIIL	warym	Reillaik
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.785	18.74	32.92	51.66	54.00	-2.34	AVG
2	2390.000	18.78	32.92	51.70	54.00	-2.30	AVG



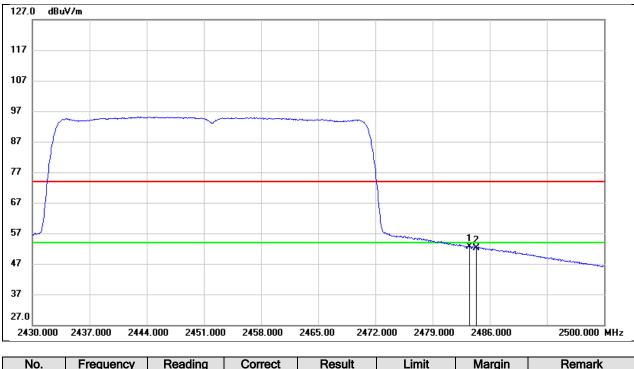
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5V



NO.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.83	32.94	69.77	74.00	-4.23	peak
2	2484.390	39.39	32.94	72.33	74.00	-1.67	peak



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

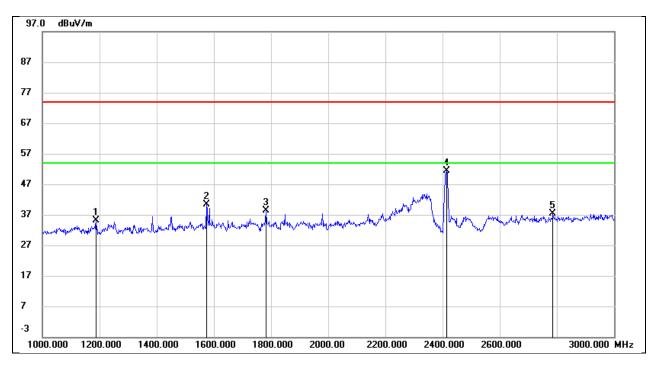


	INO.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	19.65	32.94	52.59	54.00	-1.41	AVG
ĺ	2	2484.390	19.08	32.94	52.02	54.00	-1.98	AVG



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

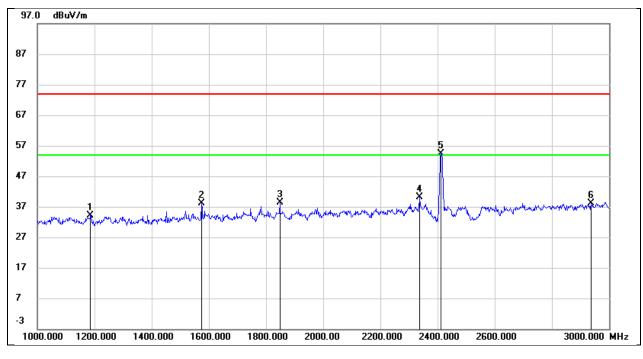
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1188.000	47.66	-12.43	35.23	74.00	-38.77	peak
2	1574.000	51.57	-11.14	40.43	74.00	-33.57	peak
3	1782.000	48.45	-10.18	38.27	74.00	-35.73	peak
4	2412.000	59.00	-7.56	51.44	/	/	fundamental
5	2786.000	44.13	-6.84	37.29	74.00	-36.71	peak



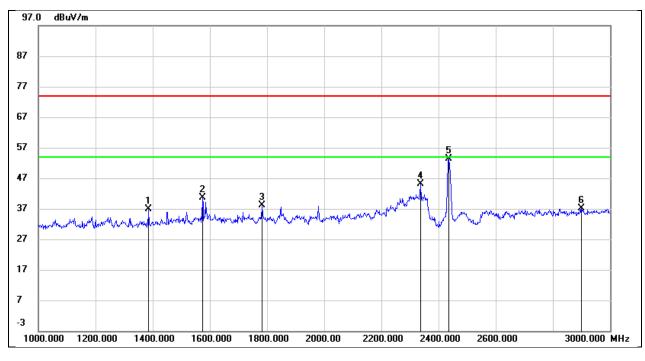
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1186.000	46.16	-11.97	34.19	74.00	-39.81	peak
2	1574.000	48.93	-10.92	38.01	74.00	-35.99	peak
3	1848.000	47.73	-9.42	38.31	74.00	-35.69	peak
4	2338.000	47.13	-7.12	40.01	74.00	-33.99	peak
5	2412.000	61.13	-6.74	54.39	/	/	fundamental
6	2936.000	42.94	-4.79	38.15	74.00	-35.85	peak



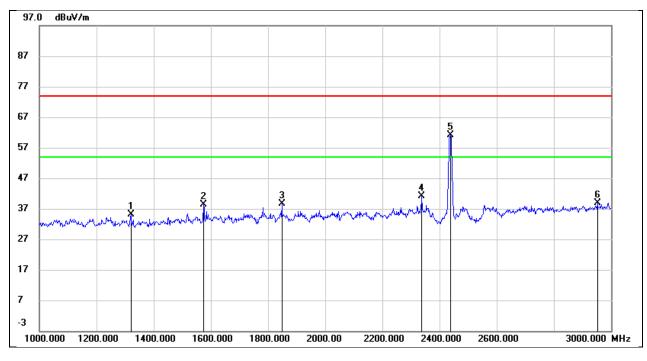
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1386.000	49.12	-12.18	36.94	74.00	-37.06	peak
2	1574.000	51.70	-11.14	40.56	74.00	-33.44	peak
3	1782.000	48.33	-10.18	38.15	74.00	-35.85	peak
4	2338.000	53.15	-7.95	45.20	74.00	-28.80	peak
5	2437.000	60.90	-7.59	53.31	/	/	fundamental
6	2900.000	43.28	-6.22	37.06	74.00	-36.94	peak



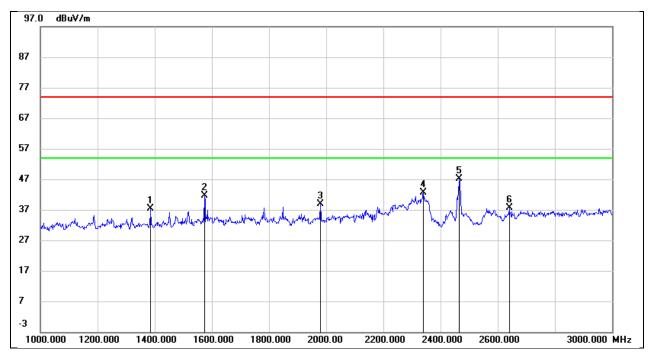
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	46.99	-11.91	35.08	74.00	-38.92	peak
2	1574.000	49.38	-10.92	38.46	74.00	-35.54	peak
3	1848.000	48.14	-9.42	38.72	74.00	-35.28	peak
4	2338.000	48.32	-7.12	41.20	74.00	-32.80	peak
5	2437.000	68.00	-6.78	61.22	/	/	fundamental
6	2952.000	43.69	-4.69	39.00	74.00	-35.00	peak

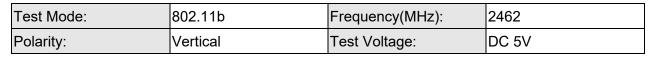


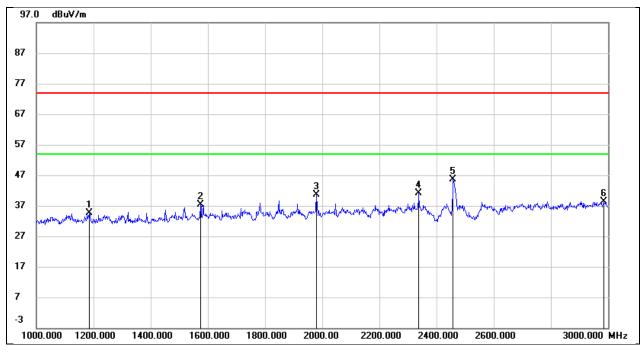
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1386.000	49.44	-12.18	37.26	74.00	-36.74	peak
2	1574.000	52.70	-11.14	41.56	74.00	-32.44	peak
3	1980.000	48.90	-10.02	38.88	74.00	-35.12	peak
4	2340.000	50.57	-7.95	42.62	74.00	-31.38	peak
5	2462.000	54.81	-7.64	47.17	/	/	fundamental
6	2640.000	45.12	-7.59	37.53	74.00	-36.47	peak





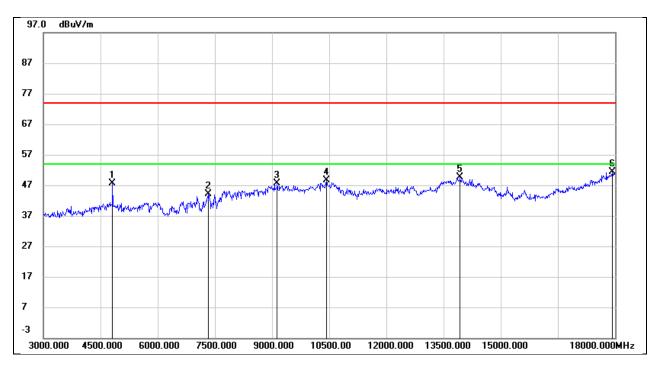


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1186.000	46.59	-11.97	34.62	74.00	-39.38	peak
2	1574.000	48.24	-10.92	37.32	74.00	-36.68	peak
3	1980.000	49.76	-9.16	40.60	74.00	-33.40	peak
4	2338.000	48.24	-7.12	41.12	74.00	-32.88	peak
5	2462.000	52.46	-6.83	45.63	/	/	fundamental
6	2986.000	42.96	-4.48	38.48	74.00	-35.52	peak



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

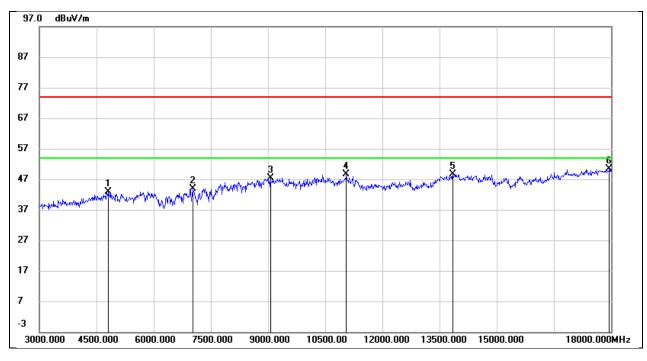
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	47.01	0.65	47.66	74.00	-26.34	peak
2	7335.000	36.83	7.24	44.07	74.00	-29.93	peak
3	9135.000	37.06	10.49	47.55	74.00	-26.45	peak
4	10425.000	35.34	13.27	48.61	74.00	-25.39	peak
5	13935.000	27.01	22.59	49.60	74.00	-24.40	peak
6	17925.000	23.39	27.93	51.32	74.00	-22.68	peak



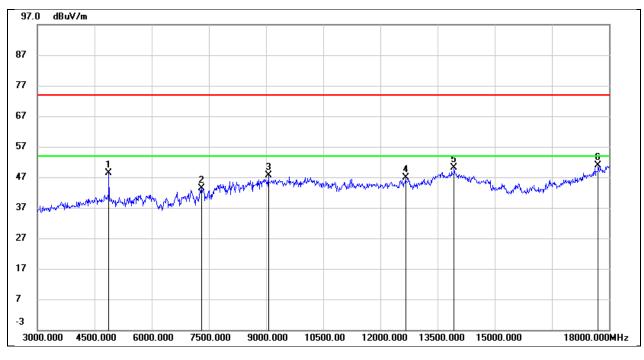
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	41.24	1.74	42.98	74.00	-31.02	peak
2	7035.000	35.51	8.26	43.77	74.00	-30.23	peak
3	9060.000	36.13	11.27	47.40	74.00	-26.60	peak
4	11055.000	34.64	14.04	48.68	74.00	-25.32	peak
5	13845.000	27.68	20.88	48.56	74.00	-25.44	peak
6	17955.000	24.24	26.09	50.33	74.00	-23.67	peak



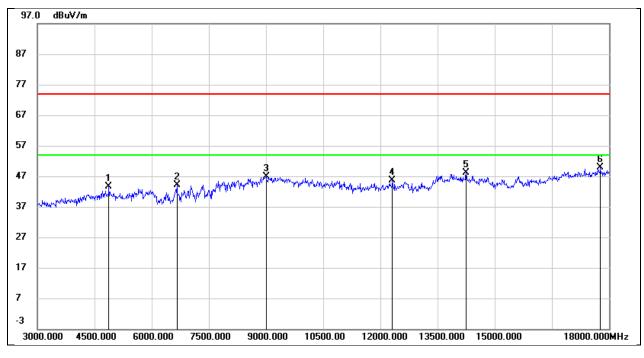
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	47.49	0.78	48.27	74.00	-25.73	peak
2	7305.000	36.42	7.05	43.47	74.00	-30.53	peak
3	9060.000	36.73	10.92	47.65	74.00	-26.35	peak
4	12660.000	28.67	18.12	46.79	74.00	-27.21	peak
5	13935.000	27.52	22.59	50.11	74.00	-23.89	peak
6	17715.000	24.60	26.35	50.95	74.00	-23.05	peak



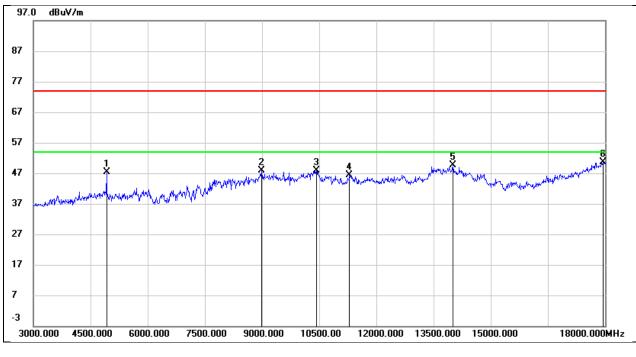
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.71	1.91	43.62	74.00	-30.38	peak
2	6660.000	38.11	5.95	44.06	74.00	-29.94	peak
3	9000.000	35.11	11.67	46.78	74.00	-27.22	peak
4	12315.000	28.37	17.26	45.63	74.00	-28.37	peak
5	14250.000	27.29	20.87	48.16	74.00	-25.84	peak
6	17775.000	24.12	25.79	49.91	74.00	-24.09	peak



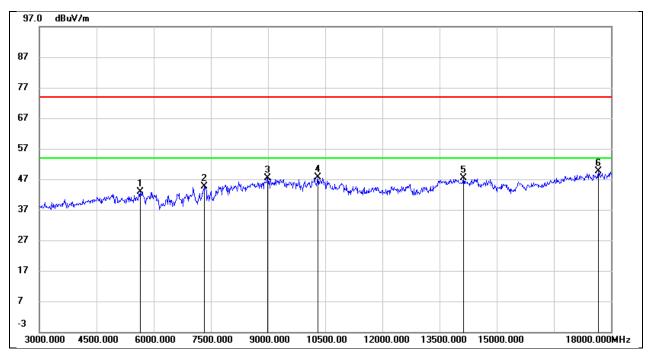
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	46.62	0.87	47.49	74.00	-26.51	peak
2	8985.000	36.87	11.07	47.94	74.00	-26.06	peak
3	10425.000	34.54	13.27	47.81	74.00	-26.19	peak
4	11295.000	30.67	15.71	46.38	74.00	-27.62	peak
5	14010.000	26.98	22.63	49.61	74.00	-24.39	peak
6	17955.000	22.53	28.09	50.62	74.00	-23.38	peak



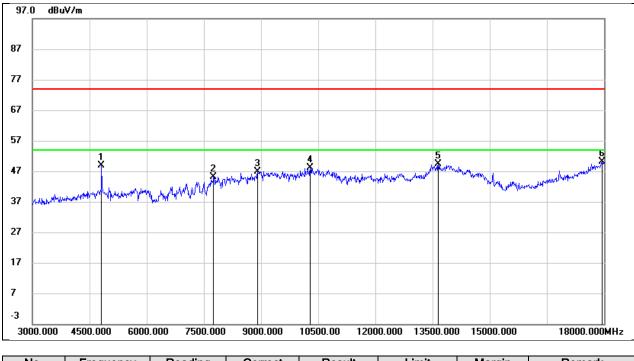
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5640.000	39.21	3.73	42.94	74.00	-31.06	peak
2	7335.000	36.68	7.87	44.55	74.00	-29.45	peak
3	8985.000	36.01	11.48	47.49	74.00	-26.51	peak
4	10305.000	35.23	12.46	47.69	74.00	-26.31	peak
5	14130.000	26.29	21.03	47.32	74.00	-26.68	peak
6	17670.000	24.58	25.11	49.69	74.00	-24.31	peak



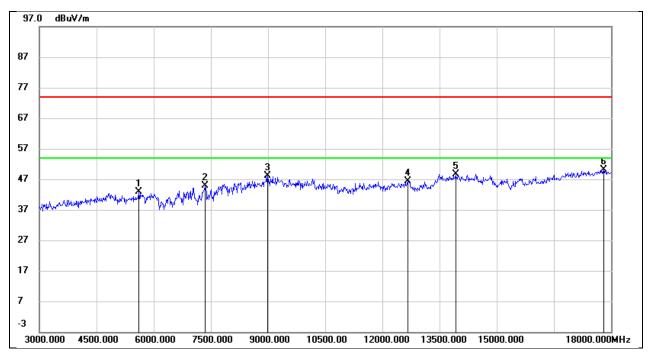
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	48.23	0.65	48.88	74.00	-25.12	peak
2	7755.000	37.72	7.53	45.25	74.00	-28.75	peak
3	8910.000	36.92	10.03	46.95	74.00	-27.05	peak
4	10290.000	35.33	12.79	48.12	74.00	-25.88	peak
5	13650.000	27.75	21.66	49.41	74.00	-24.59	peak
6	17940.000	22.19	28.01	50.20	74.00	-23.80	peak



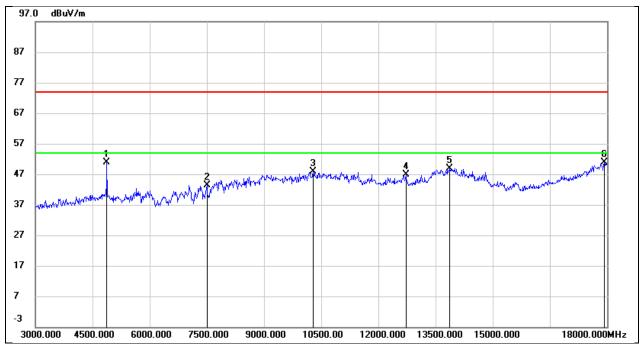
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5610.000	39.12	3.80	42.92	74.00	-31.08	peak
2	7350.000	36.84	7.96	44.80	74.00	-29.20	peak
3	8985.000	36.70	11.48	48.18	74.00	-25.82	peak
4	12660.000	29.20	17.13	46.33	74.00	-27.67	peak
5	13920.000	27.70	20.96	48.66	74.00	-25.34	peak
6	17805.000	24.15	25.96	50.11	74.00	-23.89	peak



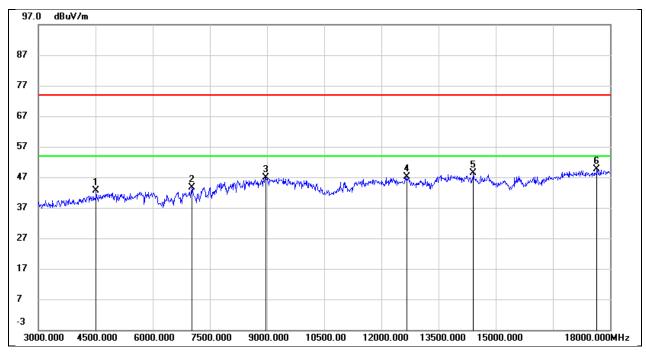
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	50.02	0.78	50.80	74.00	-23.20	peak
2	7500.000	35.97	7.38	43.35	74.00	-30.65	peak
3	10290.000	35.08	12.79	47.87	74.00	-26.13	peak
4	12720.000	28.54	18.36	46.90	74.00	-27.10	peak
5	13875.000	26.38	22.53	48.91	74.00	-25.09	peak
6	17925.000	22.90	27.93	50.83	74.00	-23.17	peak



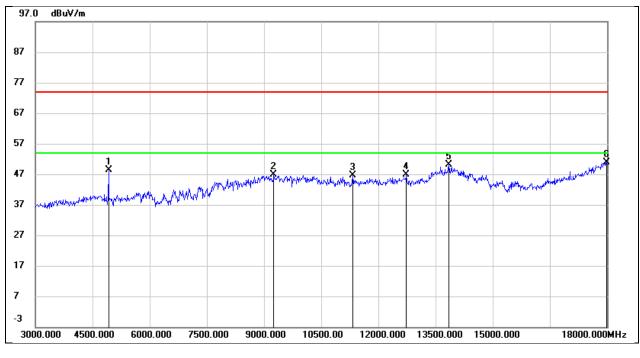
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4515.000	42.26	0.29	42.55	74.00	-31.45	peak
2	7035.000	35.36	8.26	43.62	74.00	-30.38	peak
3	8970.000	35.66	11.27	46.93	74.00	-27.07	peak
4	12675.000	29.86	17.17	47.03	74.00	-26.97	peak
5	14415.000	27.92	20.38	48.30	74.00	-25.70	peak
6	17655.000	24.50	25.02	49.52	74.00	-24.48	peak



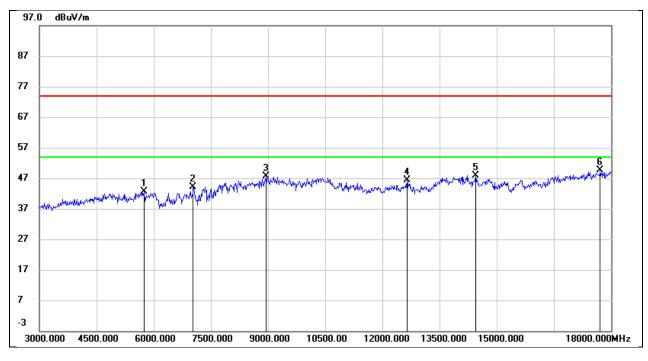
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	47.59	0.87	48.46	74.00	-25.54	peak
2	9255.000	36.53	10.24	46.77	74.00	-27.23	peak
3	11325.000	30.72	15.87	46.59	74.00	-27.41	peak
4	12735.000	28.46	18.42	46.88	74.00	-27.12	peak
5	13845.000	27.56	22.51	50.07	74.00	-23.93	peak
6	17985.000	22.67	28.25	50.92	74.00	-23.08	peak



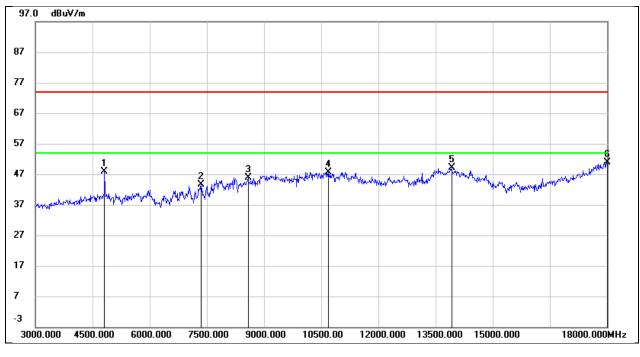
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5745.000	39.23	3.46	42.69	74.00	-31.31	peak
2	7035.000	35.94	8.26	44.20	74.00	-29.80	peak
3	8955.000	36.51	11.07	47.58	74.00	-26.42	peak
4	12645.000	29.24	17.09	46.33	74.00	-27.67	peak
5	14445.000	27.43	20.34	47.77	74.00	-26.23	peak
6	17715.000	24.18	25.41	49.59	74.00	-24.41	peak



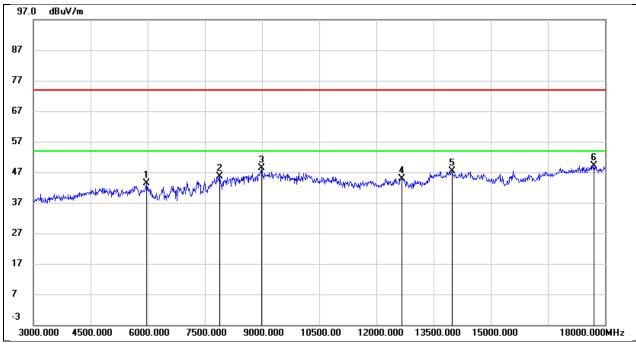
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	47.33	0.65	47.98	74.00	-26.02	peak
2	7350.000	36.25	7.34	43.59	74.00	-30.41	peak
3	8580.000	37.13	8.73	45.86	74.00	-28.14	peak
4	10695.000	34.03	13.72	47.75	74.00	-26.25	peak
5	13920.000	26.51	22.58	49.09	74.00	-24.91	peak
6	18000.000	22.50	28.33	50.83	74.00	-23.17	peak



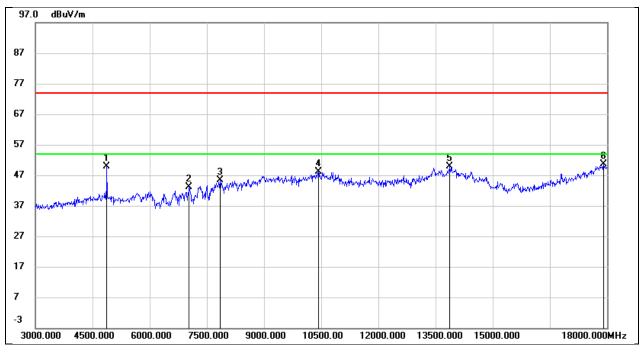
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5970.000	39.34	4.08	43.42	74.00	-30.58	peak
2	7890.000	37.70	7.92	45.62	74.00	-28.38	peak
3	8985.000	36.99	11.48	48.47	74.00	-25.53	peak
4	12675.000	27.74	17.17	44.91	74.00	-29.09	peak
5	13980.000	26.25	21.04	47.29	74.00	-26.71	peak
6	17700.000	23.86	25.31	49.17	74.00	-24.83	peak



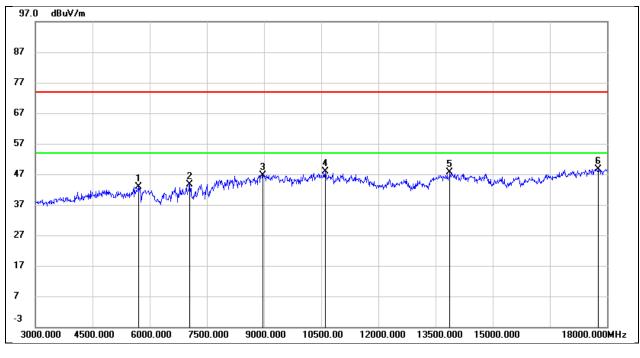
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	49.02	0.78	49.80	74.00	-24.20	peak
2	7035.000	35.82	7.39	43.21	74.00	-30.79	peak
3	7845.000	37.92	7.55	45.47	74.00	-28.53	peak
4	10425.000	34.79	13.27	48.06	74.00	-25.94	peak
5	13875.000	27.32	22.53	49.85	74.00	-24.15	peak
6	17910.000	22.84	27.86	50.70	74.00	-23.30	peak



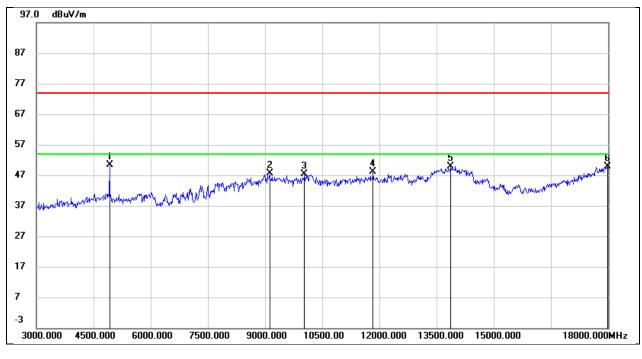
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	39.34	3.58	42.92	74.00	-31.08	peak
2	7050.000	35.48	8.16	43.64	74.00	-30.36	peak
3	8970.000	35.48	11.27	46.75	74.00	-27.25	peak
4	10605.000	34.41	13.35	47.76	74.00	-26.24	peak
5	13875.000	26.65	20.91	47.56	74.00	-26.44	peak
6	17760.000	22.98	25.69	48.67	74.00	-25.33	peak



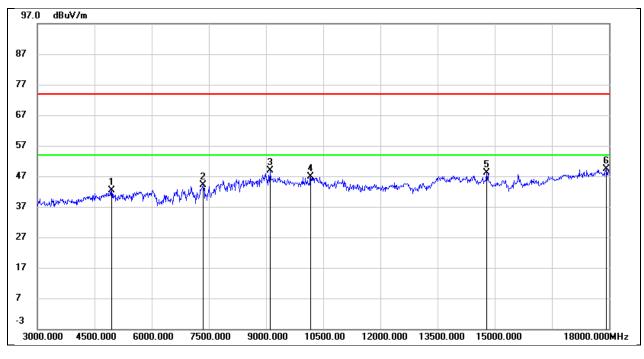
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	49.49	0.87	50.36	74.00	-23.64	peak
2	9120.000	37.18	10.57	47.75	74.00	-26.25	peak
3	10035.000	34.89	12.55	47.44	74.00	-26.56	peak
4	11835.000	30.80	17.29	48.09	74.00	-25.91	peak
5	13875.000	27.45	22.53	49.98	74.00	-24.02	peak
6	17985.000	21.61	28.25	49.86	74.00	-24.14	peak



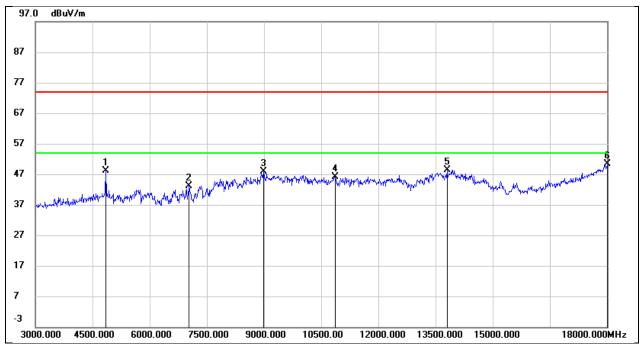
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	40.40	2.10	42.50	74.00	-31.50	peak
2	7350.000	36.26	7.96	44.22	74.00	-29.78	peak
3	9105.000	37.87	10.98	48.85	74.00	-25.15	peak
4	10170.000	35.03	11.91	46.94	74.00	-27.06	peak
5	14790.000	28.32	19.89	48.21	74.00	-25.79	peak
6	17925.000	23.27	26.06	49.33	74.00	-24.67	peak



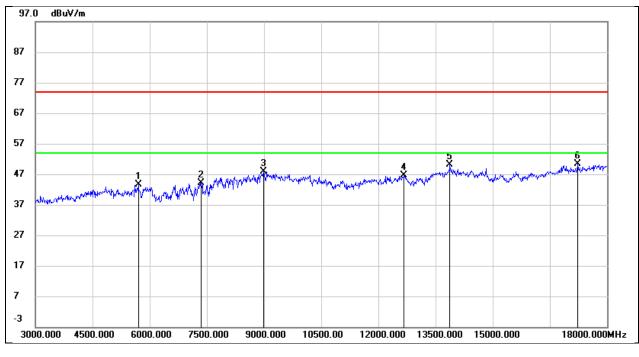
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	47.46	0.71	48.17	74.00	-25.83	peak
2	7035.000	35.77	7.39	43.16	74.00	-30.84	peak
3	8985.000	36.90	11.07	47.97	74.00	-26.03	peak
4	10860.000	32.09	14.08	46.17	74.00	-27.83	peak
5	13800.000	26.02	22.46	48.48	74.00	-25.52	peak
6	18000.000	22.13	28.33	50.46	74.00	-23.54	peak



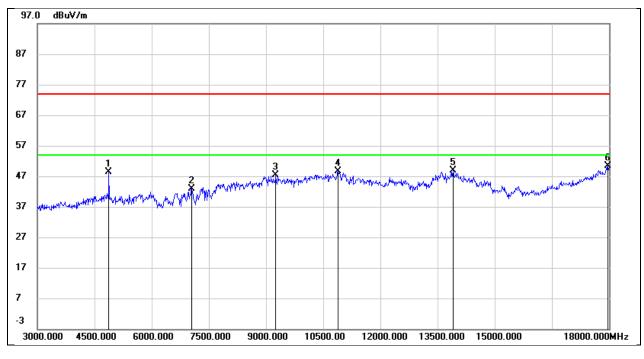
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	40.13	3.58	43.71	74.00	-30.29	peak
2	7350.000	36.21	7.96	44.17	74.00	-29.83	peak
3	8985.000	36.46	11.48	47.94	74.00	-26.06	peak
4	12675.000	29.36	17.17	46.53	74.00	-27.47	peak
5	13875.000	29.10	20.91	50.01	74.00	-23.99	peak
6	17235.000	26.12	24.26	50.38	74.00	-23.62	peak



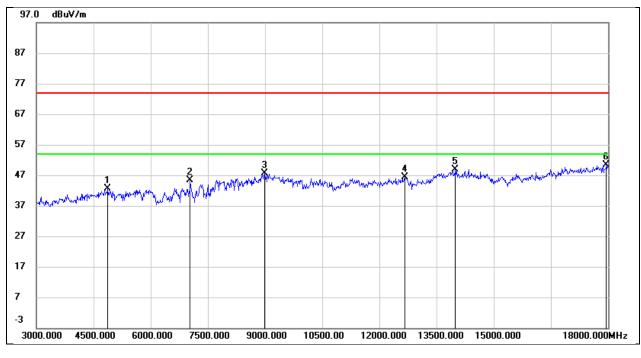
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	47.57	0.78	48.35	74.00	-25.65	peak
2	7050.000	35.64	7.30	42.94	74.00	-31.06	peak
3	9255.000	37.02	10.24	47.26	74.00	-26.74	peak
4	10890.000	34.40	14.24	48.64	74.00	-25.36	peak
5	13905.000	26.41	22.56	48.97	74.00	-25.03	peak
6	17970.000	22.13	28.17	50.30	74.00	-23.70	peak



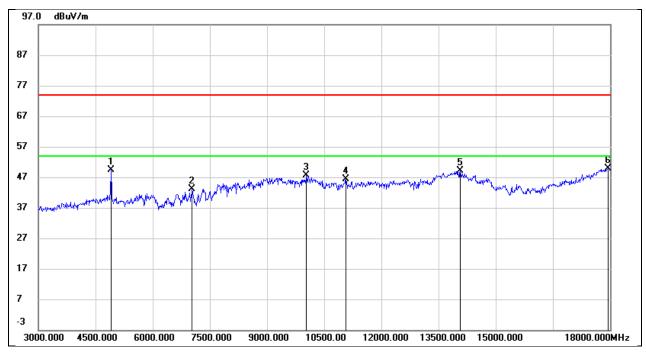
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	40.62	1.91	42.53	74.00	-31.47	peak
2	7035.000	37.03	8.26	45.29	74.00	-28.71	peak
3	8985.000	36.26	11.48	47.74	74.00	-26.26	peak
4	12675.000	29.11	17.17	46.28	74.00	-27.72	peak
5	13995.000	27.74	21.06	48.80	74.00	-25.20	peak
6	17955.000	24.17	26.09	50.26	74.00	-23.74	peak



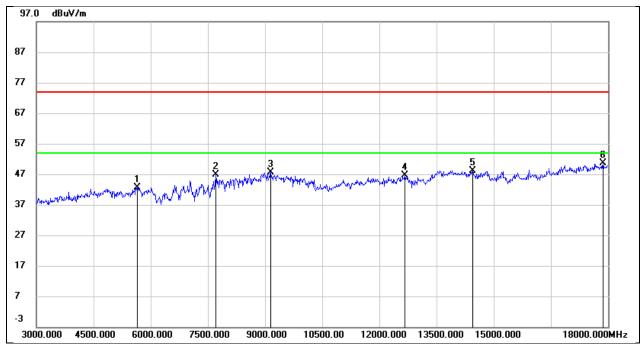
Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	48.66	0.84	49.50	74.00	-24.50	peak
2	7035.000	35.67	7.39	43.06	74.00	-30.94	peak
3	10035.000	35.19	12.55	47.74	74.00	-26.26	peak
4	11070.000	31.36	14.95	46.31	74.00	-27.69	peak
5	14070.000	26.74	22.47	49.21	74.00	-24.79	peak
6	17940.000	21.84	28.01	49.85	74.00	-24.15	peak



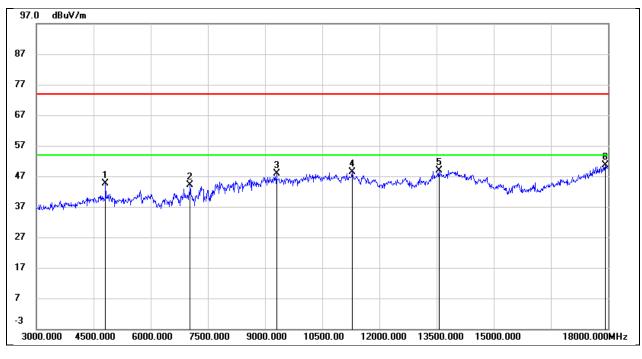
Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	39.05	3.70	42.75	74.00	-31.25	peak
2	7710.000	38.94	7.88	46.82	74.00	-27.18	peak
3	9150.000	36.93	10.68	47.61	74.00	-26.39	peak
4	12675.000	29.47	17.17	46.64	74.00	-27.36	peak
5	14445.000	27.84	20.34	48.18	74.00	-25.82	peak
6	17865.000	24.63	26.01	50.64	74.00	-23.36	peak



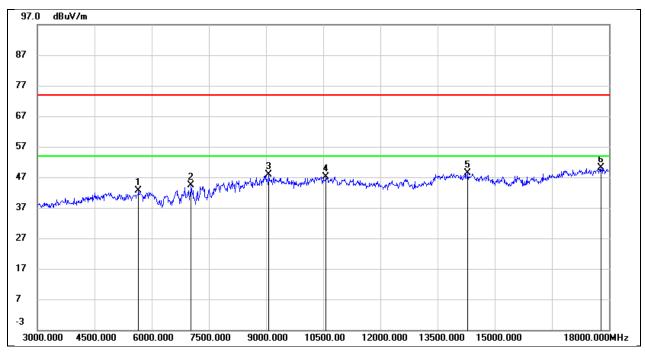
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	44.05	0.65	44.70	74.00	-29.30	peak
2	7035.000	36.62	7.39	44.01	74.00	-29.99	peak
3	9300.000	37.43	10.33	47.76	74.00	-26.24	peak
4	11280.000	32.64	15.63	48.27	74.00	-25.73	peak
5	13560.000	27.41	21.39	48.80	74.00	-25.20	peak
6	17925.000	22.69	27.93	50.62	74.00	-23.38	peak



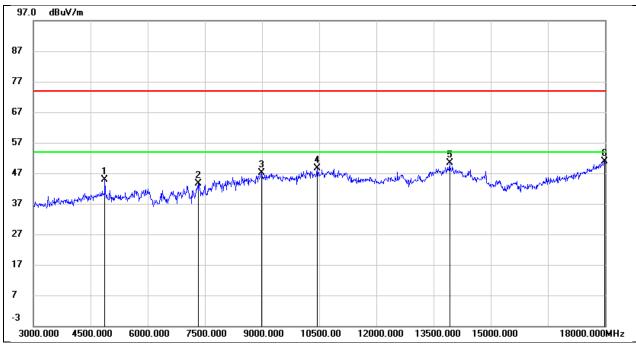
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	38.88	3.70	42.58	74.00	-31.42	peak
2	7035.000	36.02	8.26	44.28	74.00	-29.72	peak
3	9075.000	36.60	11.18	47.78	74.00	-26.22	peak
4	10575.000	33.88	13.31	47.19	74.00	-26.81	peak
5	14295.000	27.54	20.72	48.26	74.00	-25.74	peak
6	17790.000	24.17	25.88	50.05	74.00	-23.95	peak



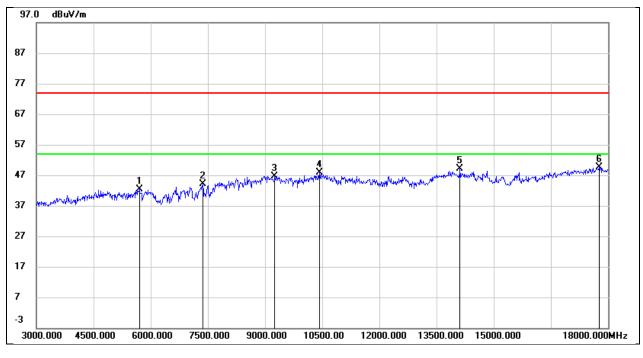
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	44.05	0.78	44.83	74.00	-29.17	peak
2	7335.000	36.42	7.24	43.66	74.00	-30.34	peak
3	8985.000	36.02	11.07	47.09	74.00	-26.91	peak
4	10440.000	35.23	13.30	48.53	74.00	-25.47	peak
5	13920.000	27.87	22.58	50.45	74.00	-23.55	peak
6	17985.000	22.63	28.25	50.88	74.00	-23.12	peak



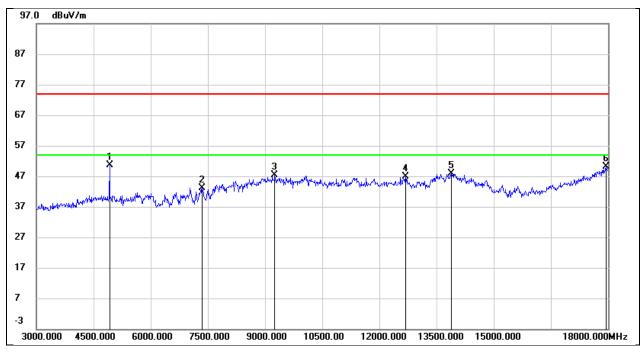
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	38.90	3.58	42.48	74.00	-31.52	peak
2	7365.000	36.11	8.03	44.14	74.00	-29.86	peak
3	9255.000	36.32	10.43	46.75	74.00	-27.25	peak
4	10425.000	34.78	13.00	47.78	74.00	-26.22	peak
5	14115.000	28.19	21.03	49.22	74.00	-24.78	peak
6	17775.000	23.96	25.79	49.75	74.00	-24.25	peak



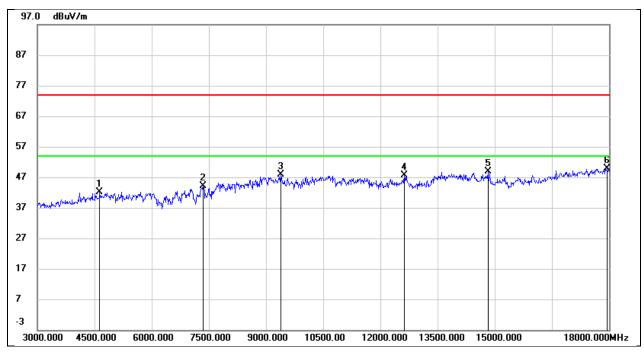
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	49.66	0.87	50.53	74.00	-23.47	peak
2	7350.000	35.67	7.34	43.01	74.00	-30.99	peak
3	9255.000	37.03	10.24	47.27	74.00	-26.73	peak
4	12690.000	28.75	18.24	46.99	74.00	-27.01	peak
5	13890.000	25.36	22.55	47.91	74.00	-26.09	peak
6	17940.000	22.10	28.01	50.11	74.00	-23.89	peak



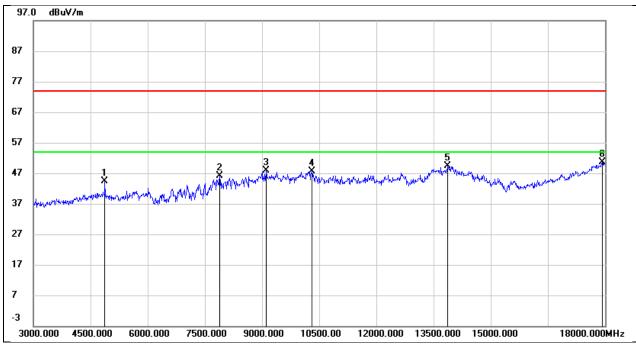
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4635.000	41.51	0.72	42.23	74.00	-31.77	peak
2	7350.000	36.26	7.96	44.22	74.00	-29.78	peak
3	9390.000	37.25	10.62	47.87	74.00	-26.13	peak
4	12630.000	30.48	17.03	47.51	74.00	-26.49	peak
5	14820.000	29.16	19.80	48.96	74.00	-25.04	peak
6	17955.000	23.70	26.09	49.79	74.00	-24.21	peak



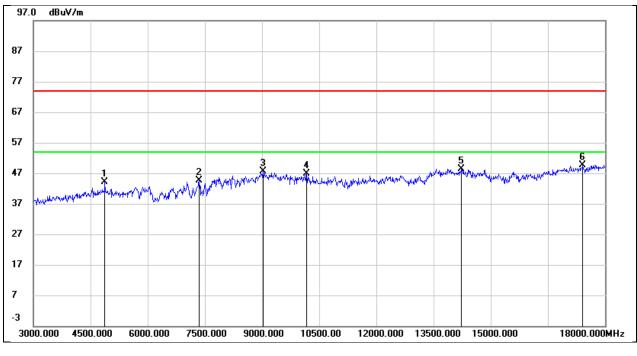
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	43.49	0.78	44.27	74.00	-29.73	peak
2	7890.000	38.69	7.42	46.11	74.00	-27.89	peak
3	9105.000	37.10	10.67	47.77	74.00	-26.23	peak
4	10305.000	34.68	12.85	47.53	74.00	-26.47	peak
5	13860.000	26.98	22.52	49.50	74.00	-24.50	peak
6	17925.000	22.71	27.93	50.64	74.00	-23.36	peak



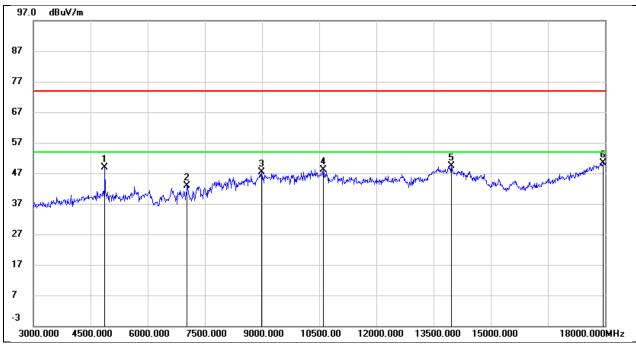
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	42.29	1.91	44.20	74.00	-29.80	peak
2	7350.000	36.66	7.96	44.62	74.00	-29.38	peak
3	9030.000	36.11	11.47	47.58	74.00	-26.42	peak
4	10170.000	34.89	11.91	46.80	74.00	-27.20	peak
5	14235.000	27.42	20.91	48.33	74.00	-25.67	peak
6	17415.000	25.28	24.40	49.68	74.00	-24.32	peak



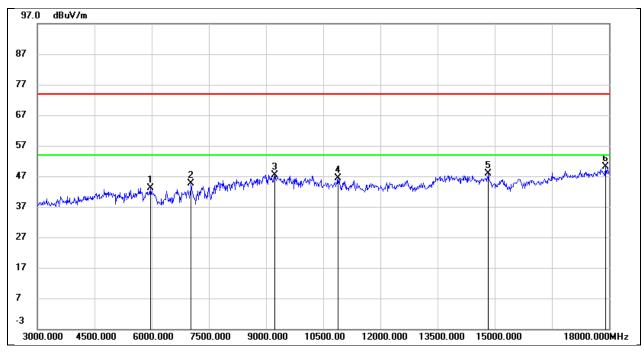
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	48.08	0.78	48.86	74.00	-25.14	peak
2	7035.000	35.58	7.39	42.97	74.00	-31.03	peak
3	8985.000	36.19	11.07	47.26	74.00	-26.74	peak
4	10605.000	34.56	13.68	48.24	74.00	-25.76	peak
5	13965.000	26.66	22.63	49.29	74.00	-24.71	peak
6	17955.000	22.32	28.09	50.41	74.00	-23.59	peak



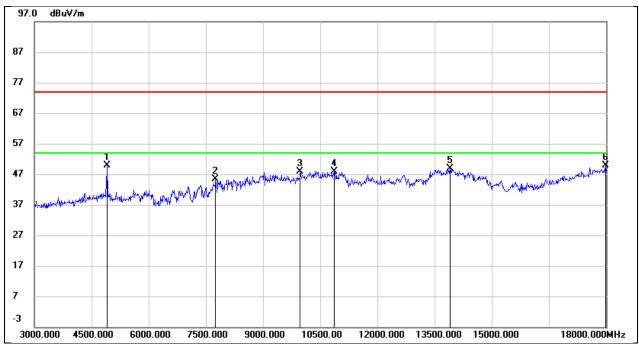
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5970.000	39.08	4.08	43.16	74.00	-30.84	peak
2	7035.000	36.27	8.26	44.53	74.00	-29.47	peak
3	9225.000	37.07	10.39	47.46	74.00	-26.54	peak
4	10890.000	32.75	13.57	46.32	74.00	-27.68	peak
5	14835.000	28.22	19.73	47.95	74.00	-26.05	peak
6	17910.000	23.98	26.05	50.03	74.00	-23.97	peak



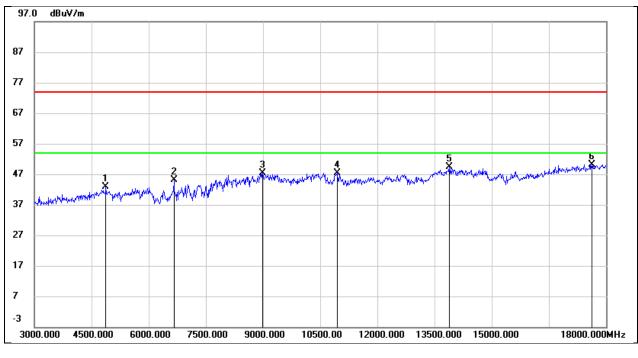
Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	48.94	0.84	49.78	74.00	-24.22	peak
2	7755.000	37.79	7.53	45.32	74.00	-28.68	peak
3	9975.000	35.34	12.47	47.81	74.00	-26.19	peak
4	10875.000	33.84	14.16	48.00	74.00	-26.00	peak
5	13905.000	26.21	22.56	48.77	74.00	-25.23	peak
6	17985.000	21.59	28.25	49.84	74.00	-24.16	peak



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

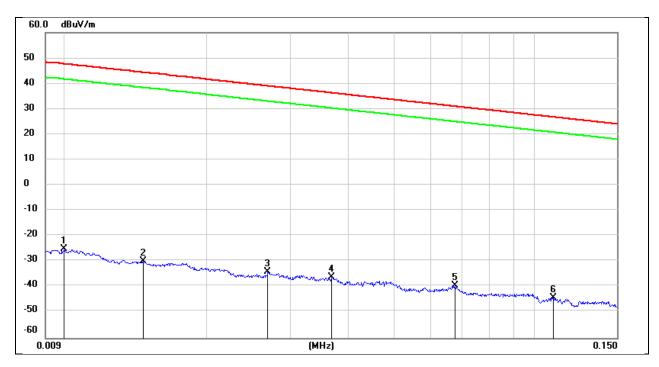


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.08	1.91	42.99	74.00	-31.01	peak
2	6660.000	39.13	5.95	45.08	74.00	-28.92	peak
3	8985.000	35.89	11.48	47.37	74.00	-26.63	peak
4	10950.000	33.67	13.82	47.49	74.00	-26.51	peak
5	13890.000	28.35	20.93	49.28	74.00	-24.72	peak
6	17625.000	25.32	24.82	50.14	74.00	-23.86	peak



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

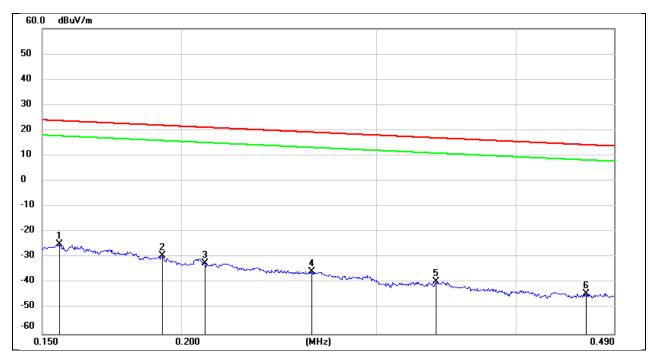
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.22	-101.40	-25.18	47.6	-76.68	-3.9	-72.78	peak
2	0.0146	71.51	-101.37	-29.86	44.31	-81.36	-7.19	-74.17	peak
3	0.0269	67.35	-101.38	-34.03	39.01	-85.53	-12.49	-73.04	peak
4	0.0367	65.25	-101.42	-36.17	36.31	-87.67	-15.19	-72.48	peak
5	0.0675	62.11	-101.56	-39.45	31.02	-90.95	-20.48	-70.47	peak
6	0.1100	57.42	-101.77	-44.35	26.78	-95.85	-24.72	-71.13	peak



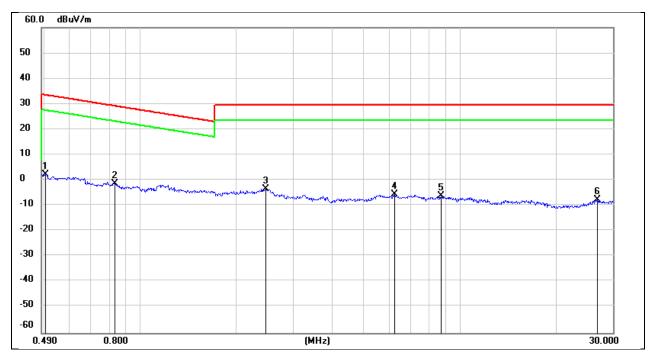
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	76.77	-101.65	-24.88	23.77	-76.38	-27.73	-48.65	peak
2	0.1925	72.46	-101.70	-29.24	21.92	-80.74	-29.58	-51.16	peak
3	0.2101	69.45	-101.73	-32.28	21.15	-83.78	-30.35	-53.43	peak
4	0.2620	66.31	-101.81	-35.5	19.24	-87.00	-32.26	-54.74	peak
5	0.3392	62.40	-101.90	-39.5	16.99	-91.00	-34.51	-56.49	peak
6	0.4627	57.72	-102.03	-44.31	14.3	-95.81	-37.2	-58.61	peak



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

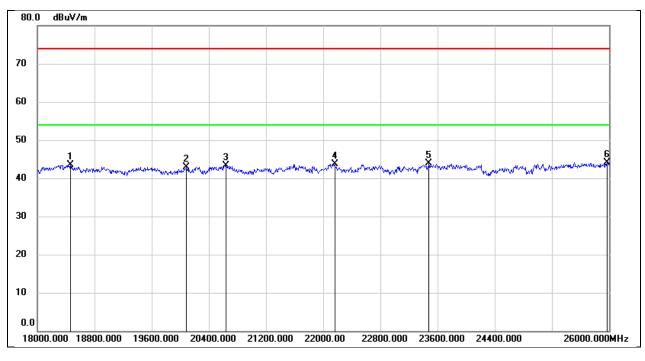


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5039	64.43	-62.07	2.36	33.56	-49.14	-17.94	-31.20	peak
2	0.8296	60.94	-62.17	-1.23	29.23	-52.73	-22.27	-30.46	peak
3	2.4672	58.16	-61.71	-3.55	29.54	-55.05	-21.96	-33.09	peak
4	6.2445	55.63	-61.32	-5.69	29.54	-57.19	-21.96	-35.23	peak
5	8.7233	54.88	-60.98	-6.10	29.54	-57.60	-21.96	-35.64	peak
6	26.8719	52.54	-60.27	-7.73	29.54	-59.23	-21.96	-37.27	peak



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

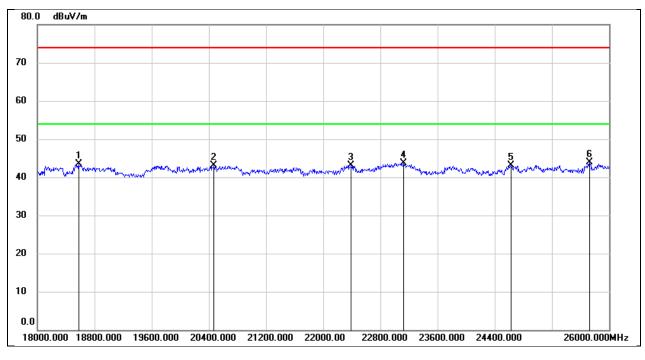
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18464.000	48.72	-5.29	43.43	74.00	-30.57	peak
2	20088.000	48.46	-5.50	42.96	74.00	-31.04	peak
3	20640.000	48.62	-5.22	43.40	74.00	-30.60	peak
4	22160.000	48.08	-4.31	43.77	74.00	-30.23	peak
5	23480.000	47.04	-3.16	43.88	74.00	-30.12	peak
6	25968.000	45.13	-1.00	44.13	74.00	-29.87	peak



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

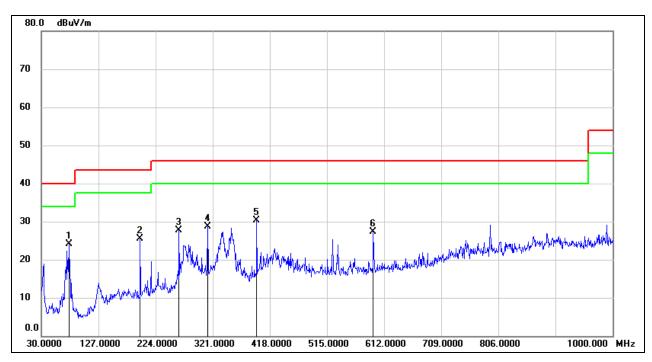


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18576.000	48.79	-5.30	43.49	74.00	-30.51	peak
2	20472.000	48.57	-5.39	43.18	74.00	-30.82	peak
3	22392.000	47.11	-4.02	43.09	74.00	-30.91	peak
4	23128.000	47.19	-3.40	43.79	74.00	-30.21	peak
5	24624.000	45.49	-2.33	43.16	74.00	-30.84	peak
6	25728.000	44.61	-0.72	43.89	74.00	-30.11	peak



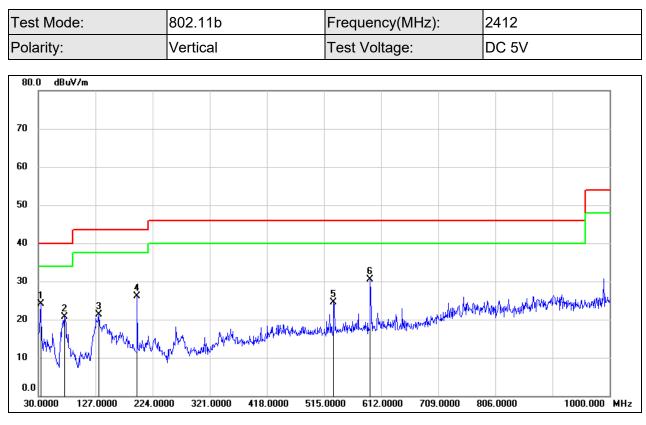
## 8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	76.5600	40.34	-16.27	24.07	40.00	-15.93	QP
2	197.8100	37.02	-11.57	25.45	43.50	-18.05	QP
3	263.7700	41.32	-13.59	27.73	46.00	-18.27	QP
4	312.2700	39.49	-10.71	28.78	46.00	-17.22	QP
5	395.6900	39.55	-9.31	30.24	46.00	-15.76	QP
6	593.5700	33.18	-5.95	27.23	46.00	-18.77	QP





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	38.70	-14.52	24.18	40.00	-15.82	QP
2	74.6200	36.89	-16.21	20.68	40.00	-19.32	QP
3	132.8200	35.61	-14.36	21.25	43.50	-22.25	QP
4	197.8100	37.60	-11.57	26.03	43.50	-17.47	QP
5	531.4900	31.52	-6.98	24.54	46.00	-21.46	QP
6	593.5700	36.40	-5.95	30.45	46.00	-15.55	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

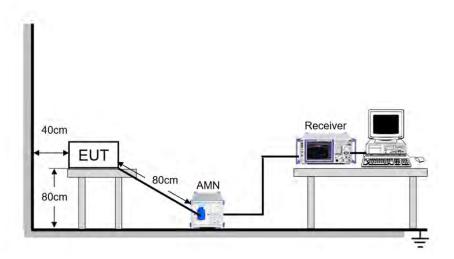
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### 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 8, 2024	Test By	Fanny Huang



#### TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Line		
80.0 dBuV			
70			
60			
50			
40			
30 30 30 Minute	manuf work and have a for any	When we want where the second s	0 Whenness which
20	Mr. Ward and a strand of and	Marrier Marrier Marrier	12 peak
10	WT.		AVG
0.0	0.5 (MHz	) 5	30.000

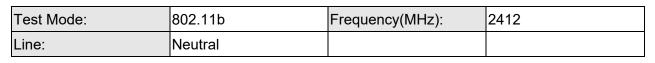
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1664	22.61	10.31	32.92	65.14	-32.22	QP
2	0.1664	15.63	10.31	25.94	55.14	-29.20	AVG
3	0.4548	28.30	10.24	38.54	56.79	-18.25	QP
4	0.4548	16.77	10.24	27.01	46.79	-19.78	AVG
5	0.9325	21.07	10.07	31.14	56.00	-24.86	QP
6	0.9325	13.86	10.07	23.93	46.00	-22.07	AVG
7	3.3293	15.16	10.13	25.29	56.00	-30.71	QP
8	3.3293	8.11	10.13	18.24	46.00	-27.76	AVG
9	9.0093	19.98	10.33	30.31	60.00	-29.69	QP
10	9.0093	14.32	10.33	24.65	50.00	-25.35	AVG
11	23.7973	11.65	10.85	22.50	60.00	-37.50	QP
12	23.7973	6.70	10.85	17.55	50.00	-32.45	AVG

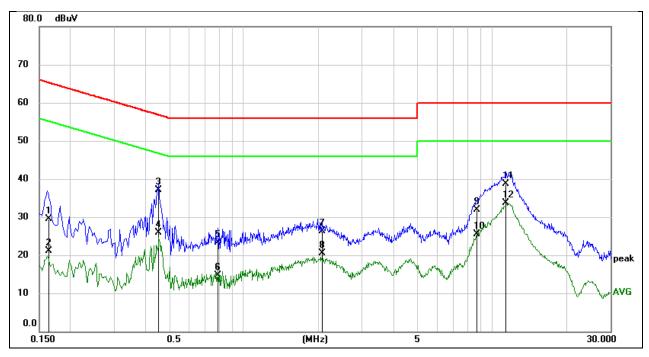
Note:

- 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	0.1643	19.29	10.21	29.50	65.24	-35.74	QP
2	0.1643	10.80	10.21	21.01	55.24	-34.23	AVG
3	0.4532	27.13	10.06	37.19	56.82	-19.63	QP
4	0.4532	15.91	10.06	25.97	46.82	-20.85	AVG
5	0.7912	13.34	9.97	23.31	56.00	-32.69	QP
6	0.7912	4.79	9.97	14.76	46.00	-31.24	AVG
7	2.0749	16.32	10.05	26.37	56.00	-29.63	QP
8	2.0749	10.37	10.05	20.42	46.00	-25.58	AVG
9	8.7065	21.44	10.43	31.87	60.00	-28.13	QP
10	8.7065	15.06	10.43	25.49	50.00	-24.51	AVG
11	11.3645	28.23	10.48	38.71	60.00	-21.29	QP
12	11.3645	23.16	10.48	33.64	50.00	-16.36	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

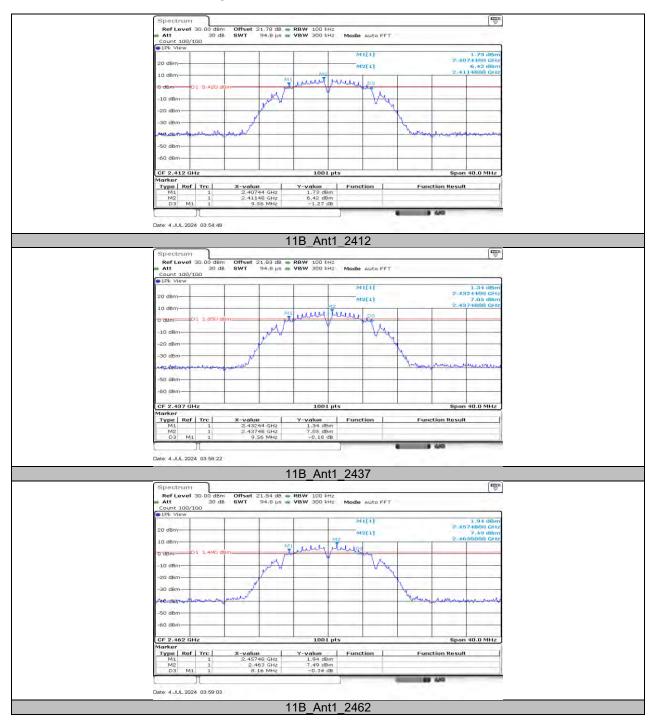
# 11.1. APPENDIX A: DTS BANDWIDTH

# 11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.56	2407.44	2417.00	≥0.5	PASS
11B	Ant1	2437	9.56	2432.44	2442.00	≥0.5	PASS
		2462	8.16	2457.48	2465.64	≥0.5	PASS
		2412	16.60	2403.68	2420.28	≥0.5	PASS
11G	Ant1	2437	16.60	2428.68	2445.28	≥0.5	PASS
		2462	16.48	2453.72	2470.20	≥0.5	PASS
		2412	17.80	2403.08	2420.88	≥0.5	PASS
11N20SISO	Ant1	2437	17.80	2428.08	2445.88	≥0.5	PASS
		2462	17.68	2453.12	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	19.08	2402.44	2421.52	≥0.5	PASS
11AX20SISO	Ant1	2437	19.20	2427.40	2446.60	≥0.5	PASS
		2462	19.08	2452.44	2471.52	≥0.5	PASS
		2422	38.08	2402.96	2441.04	≥0.5	PASS
11AX40SISO	Ant1	2437	38.08	2417.96	2456.04	≥0.5	PASS
		2452	38.08	2432.96	2471.04	≥0.5	PASS

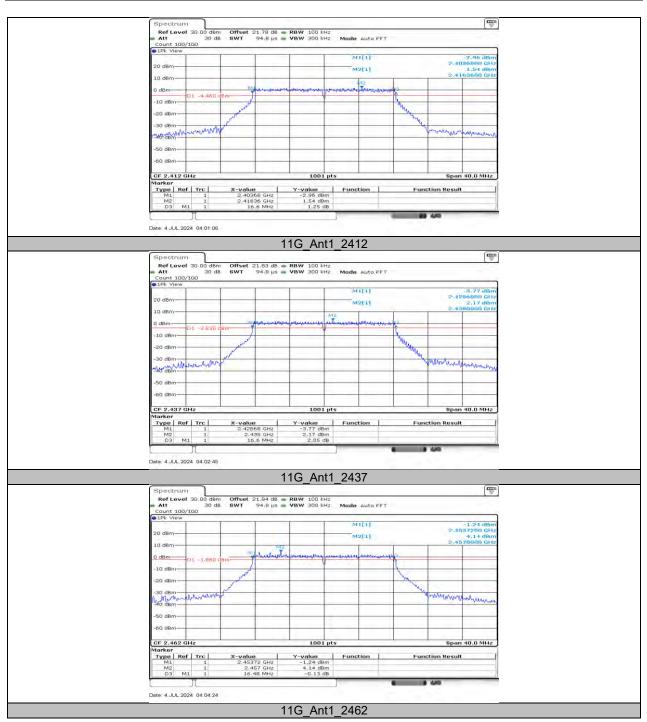


#### 11.1.2. Test Graphs

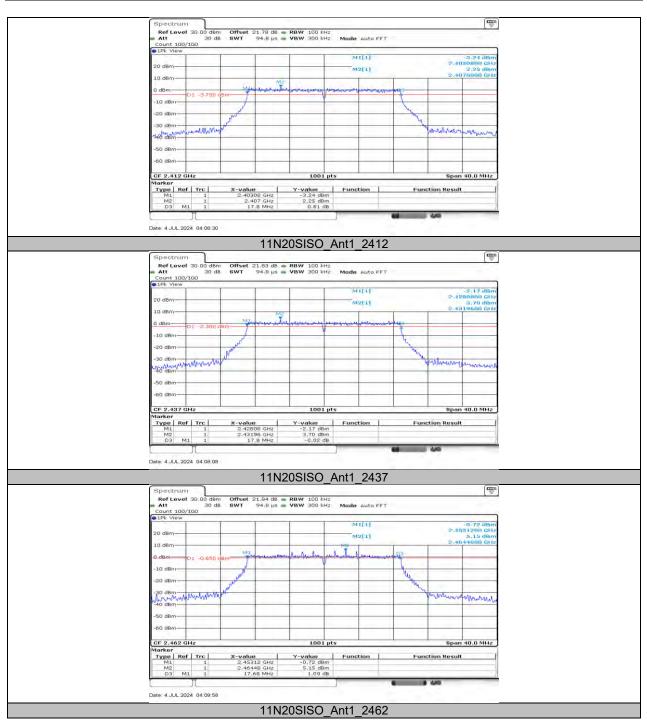


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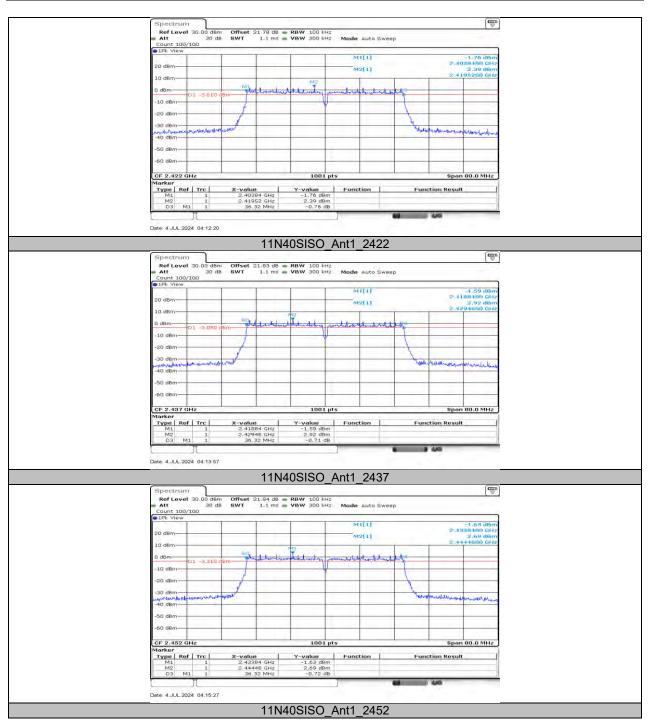




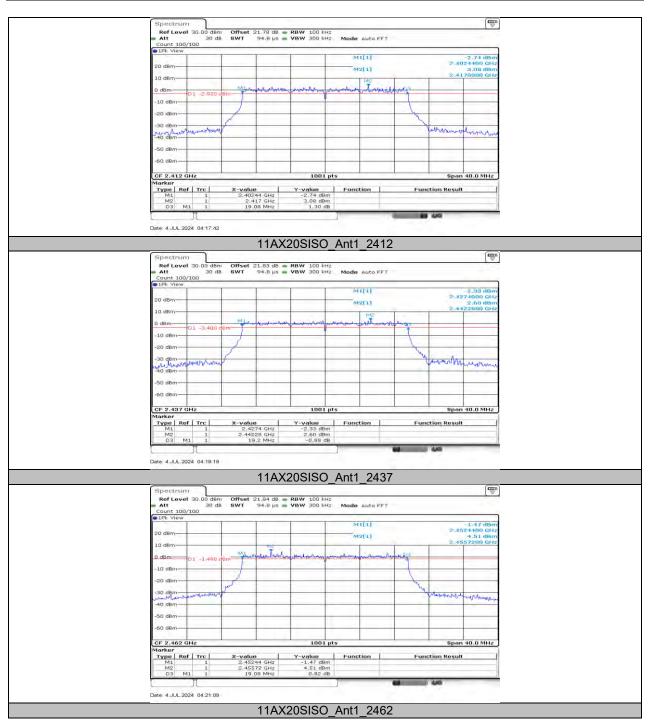




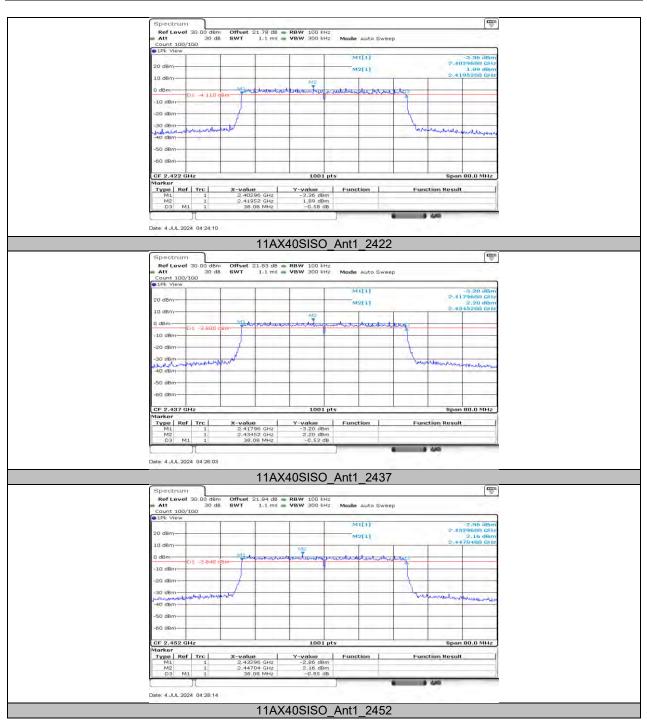














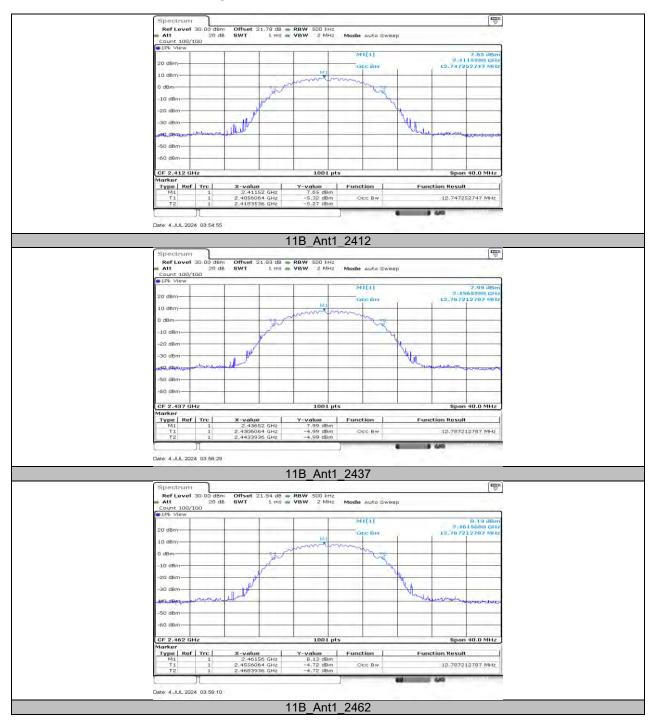
11.2.1.	Test Res	sult			
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
		2412	12.747	2405.6064	2418.3536
11B	Ant1	2437	12.787	2430.6064	2443.3936
		2462	12.787	2455.6064	2468.3936
		2412	18.142	2402.8891	2421.0310
11G	Ant1	2437	18.102	2427.8891	2445.9910
		2462	18.102	2452.9291	2471.0310
		2412	18.821	2402.5694	2421.3906
11N20SISO	Ant1	2437	18.901	2427.5295	2446.4306
		2462	18.861	2452.5694	2471.4306
		2422	37.083	2403.4585	2440.5415
11N40SISO	Ant1	2437	37.083	2418.4585	2455.5415
		2452	37.083	2433.4585	2470.5415
		2412	19.54	2402.2098	2421.7502
11AX20SISO	Ant1	2437	19.5	2427.2498	2446.7502
		2462	19.54	2452.2498	2471.7902
		2422	38.282	2402.8192	2441.1009
11AX40SISO	Ant1	2437	38.282	2417.8192	2456.1009
		2452	38.202	2432.8991	2471.1009

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

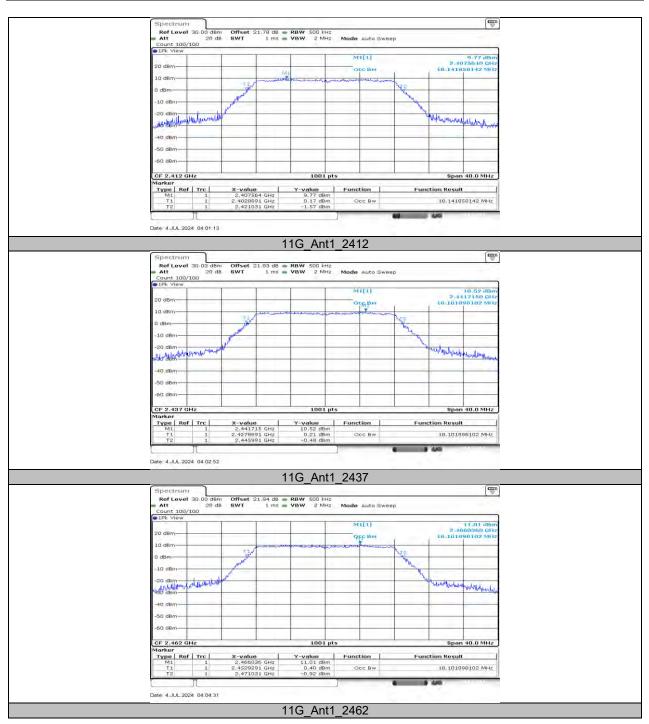
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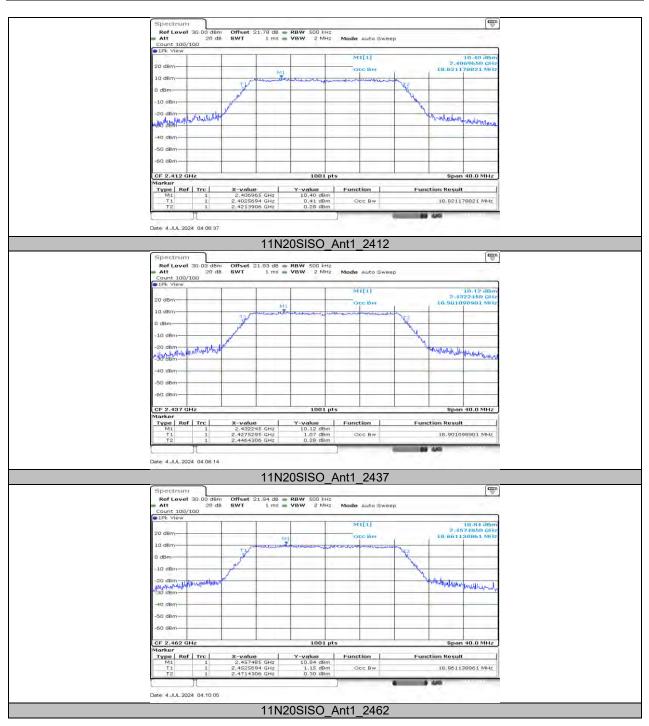
#### 11.2.2. Test Graphs



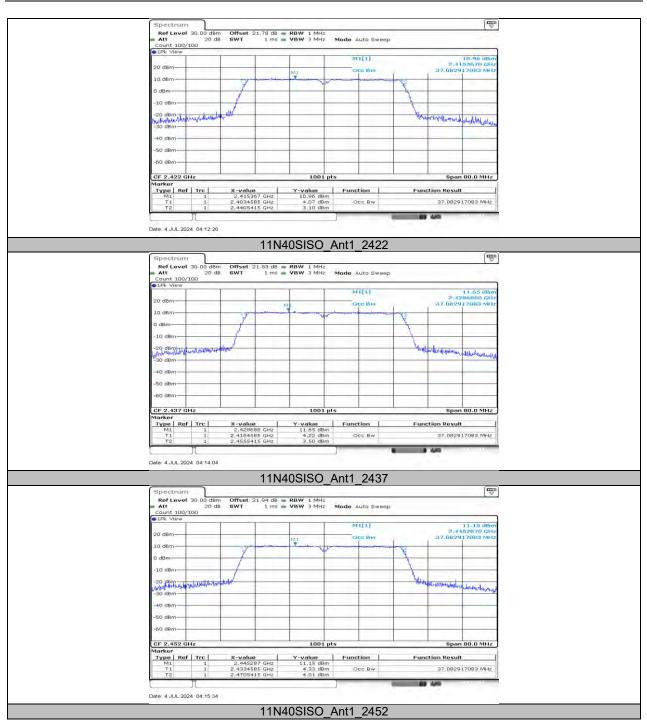




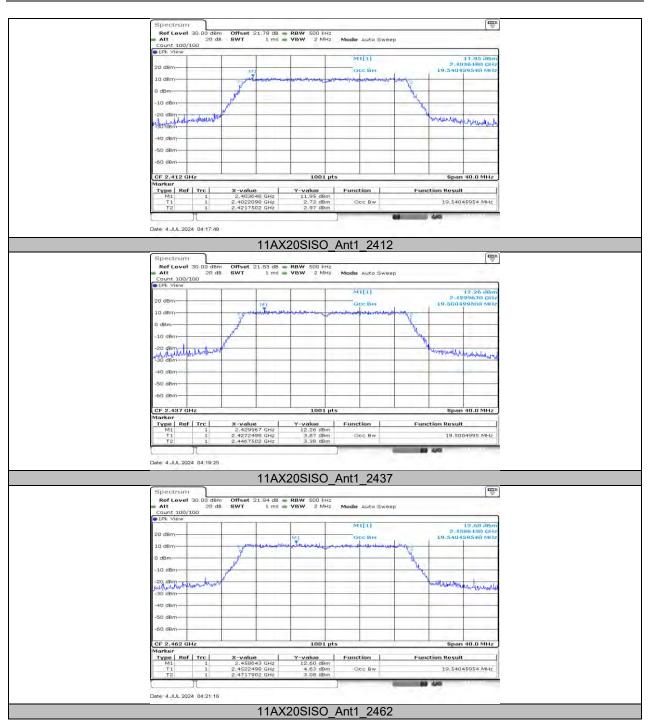




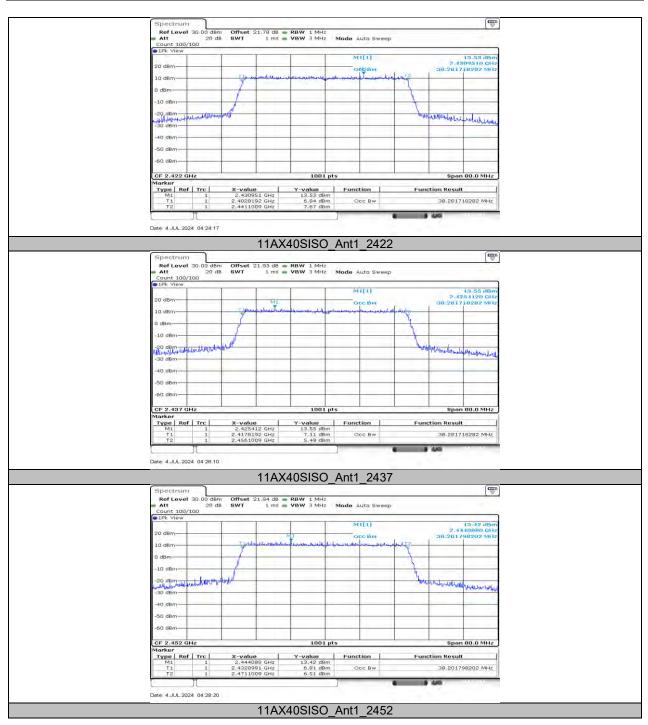














11.3.1.	1651 P	tesuit			
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
		2412	15.40	≤30.00	PASS
11B	Ant1	2437	15.69	≤30.00	PASS
		2462	15.87	≤30.00	PASS
		2412	14.38	≤30.00	PASS
11G	Ant1	2437	14.77	≤30.00	PASS
		2462	13.92	≤30.00	PASS
		2412	12.90	≤30.00	PASS
11N20SISO	Ant1	2437	13.22	≤30.00	PASS
		2462	12.91	≤30.00	PASS
		2422	12.17	≤30.00	PASS
11N40SISO	Ant1	2437	12.93	≤30.00	PASS
		2452	12.38	≤30.00	PASS
		2412	15.92	≤30.00	PASS
11AX20SISO	Ant1	2437	16.23	≤30.00	PASS
		2462	16.50	≤30.00	PASS
		2422	16.14	≤30.00	PASS
11AX40SISO	Ant1	2437	16.39	≤30.00	PASS
		2452	16.32	≤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.



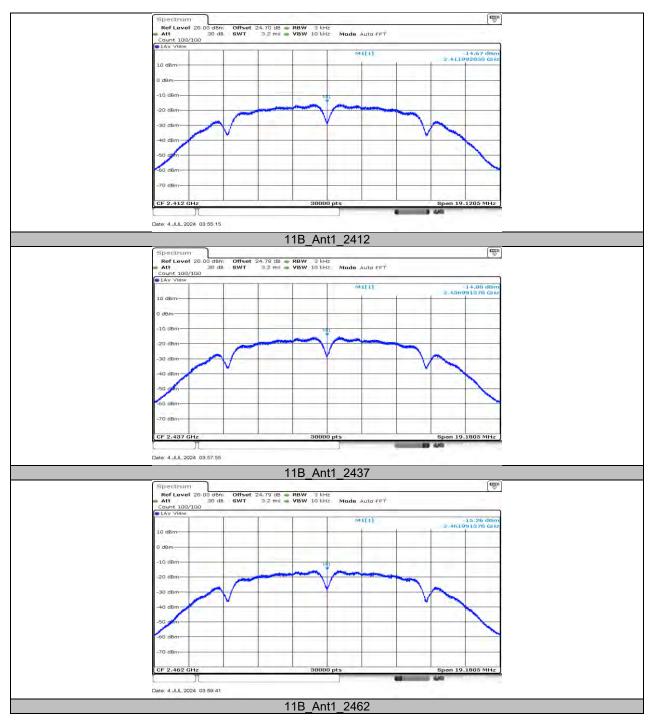
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-14.67	≤8.00	PASS
11B	Ant1	2437	-14.80	≤8.00	PASS
		2462	-15.26	≤8.00	PASS
		2412	-19.57	≤8.00	PASS
11G	Ant1	2437	-18.51	≤8.00	PASS
		2462	-19.89	≤8.00	PASS
	Ant1	2412	-20.81	≤8.00	PASS
11N20SISO		2437	-20.70	≤8.00	PASS
		2462	-20.79	≤8.00	PASS
		2422	-24.58	≤8.00	PASS
11N40SISO	Ant1	2437	-23.39	≤8.00	PASS
		2452	-24.26	≤8.00	PASS
		2412	-18.67	≤8.00	PASS
11AX20SISO	Ant1	2437	-18.31	≤8.00	PASS
		2462	-17.85	≤8.00	PASS
		2422	-20.66	≤8.00	PASS
11AX40SISO	Ant1	2437	-20.77	≤8.00	PASS
		2452	-20.57	≤8.00	PASS

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

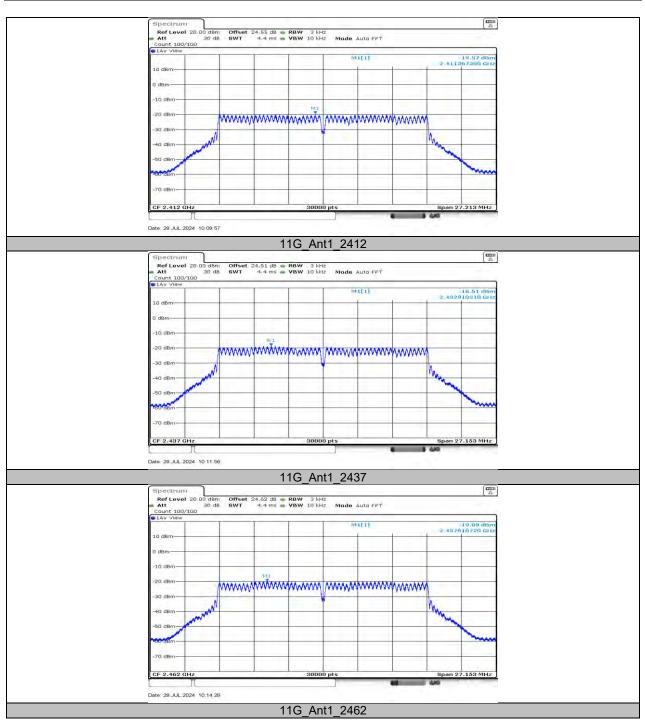
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.



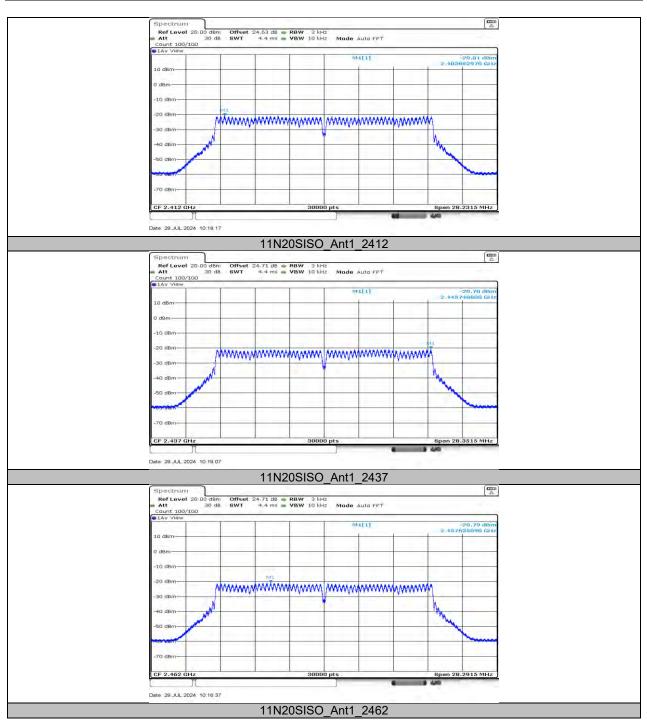
## 11.4.2. Test Graphs



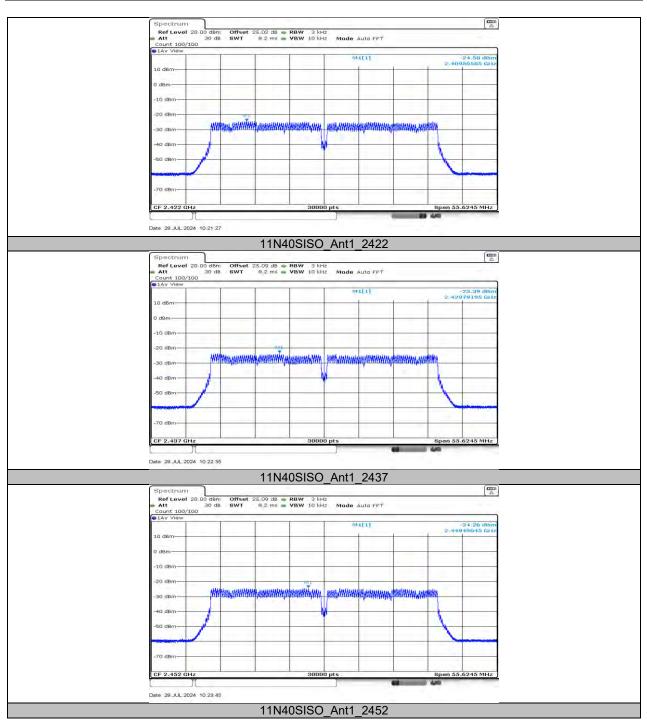




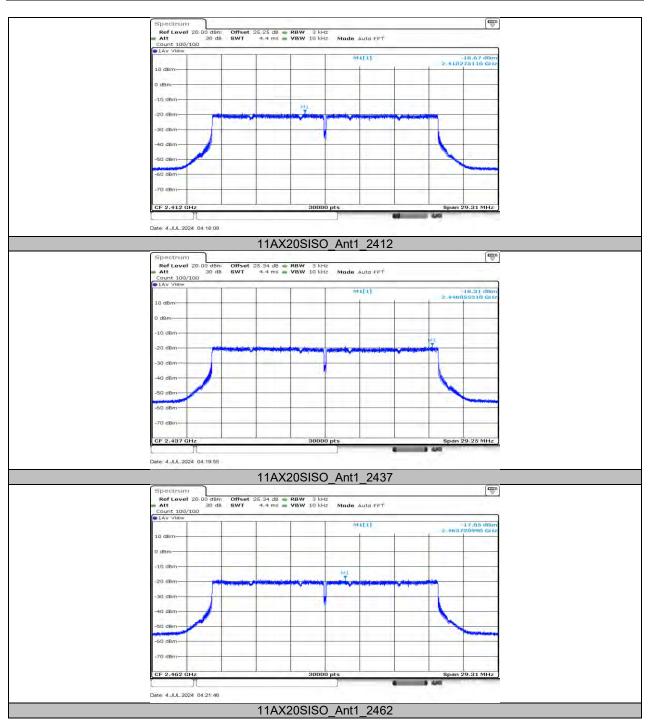




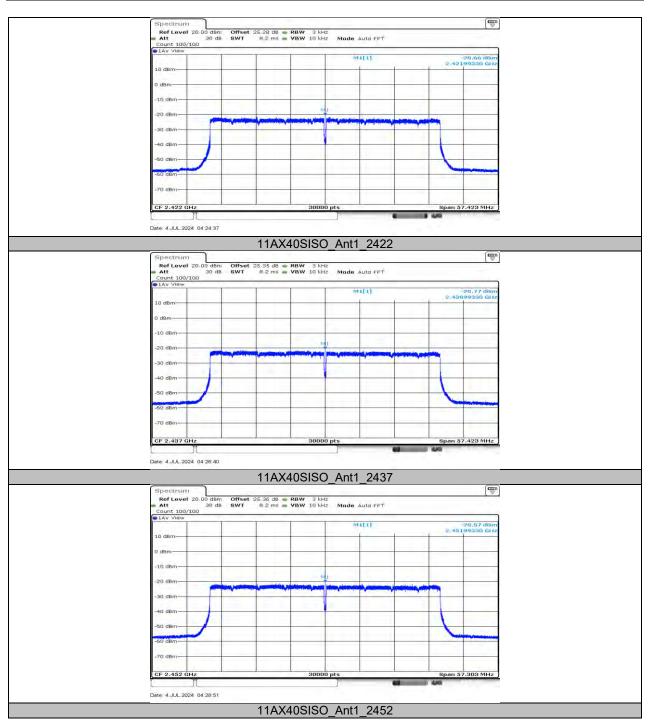














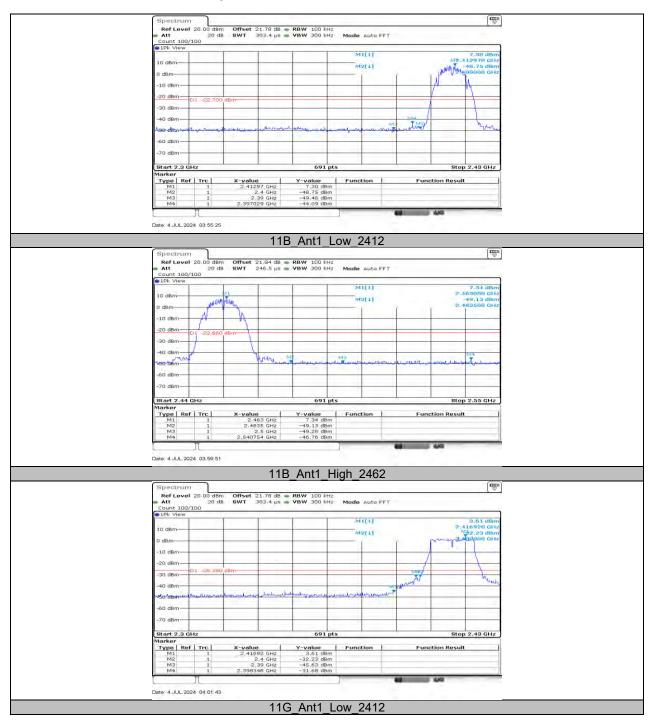
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.30	-44.09	≤-22.7	PASS
IID	Anti	High	2462	7.34	-46.76	≤-22.66	PASS
11G	Ant1	Low	2412	3.61	-31.68	≤-26.39	PASS
ПG	Anti	High	2462	2.69	-40.56	≤-27.31	PASS
111000000	Anti	Low	2412	4.38	-32.47	≤-25.62	PASS
11N20SISO	Ant1	High	2462	4.54	-38.21	≤-25.46	PASS
111100100	Anti	Low	2422	0.73	-34.71	≤-29.27	PASS
11N40SISO	Ant1	High	2452	0.28	-36.41	≤-29.72	PASS
444,000,000	Anti	Low	2412	2.45	-32.97	≤-27.55	PASS
11AX20SISO	Ant1	High	2462	2.90	-37.09	≤-27.1	PASS
11AX40SISO	A pt1	Low	2422	1.53	-34.34	≤-28.47	PASS
1147405150	Ant1	High	2452	2.10	-34.93	≤-27.9	PASS

#### 11.5. APPENDIX E: BAND EDGE MEASUREMENTS 11.5.1. Test Result

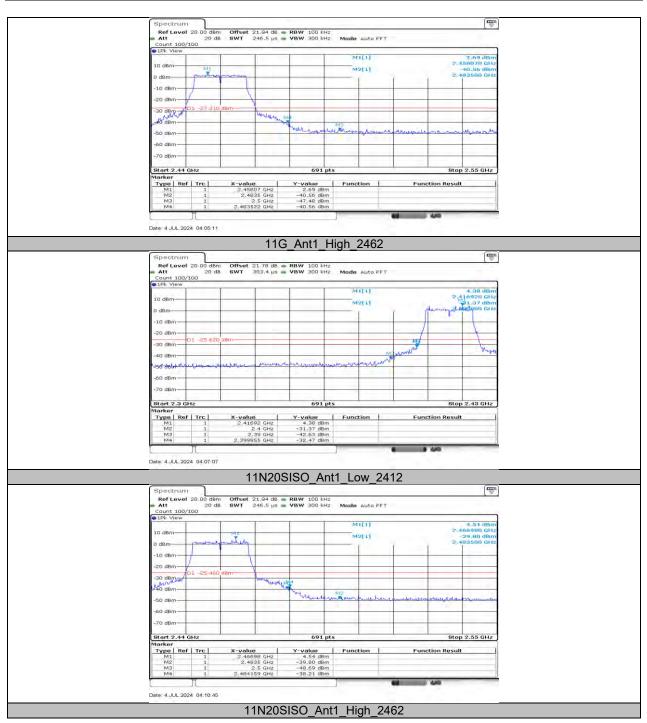
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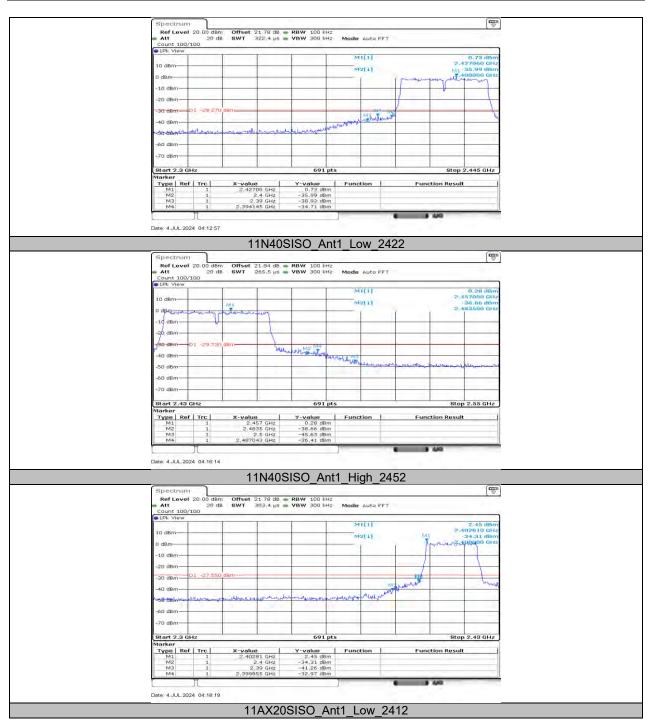
#### 11.5.2. Test Graphs



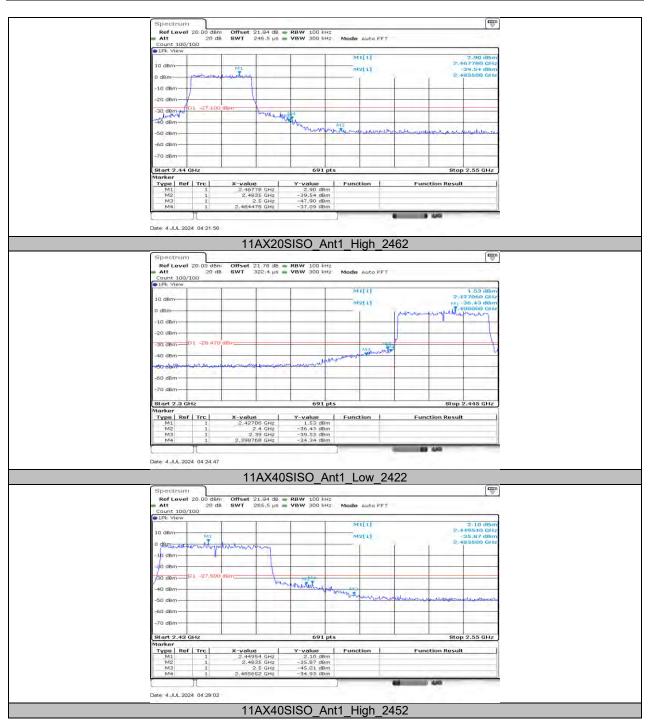














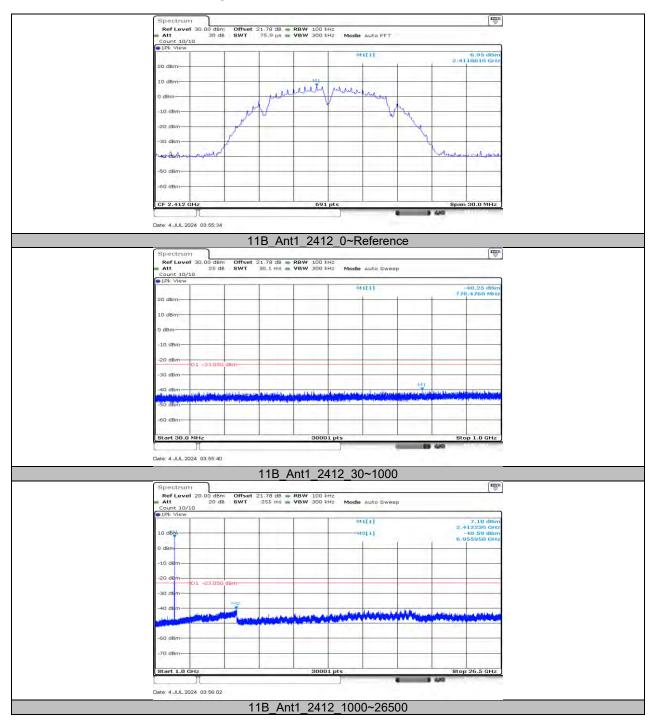
## 11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION 11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	6.95		PASS
		2412	30~1000	-40.25	≤-23.05	PASS
		2712	1000~26500	-40.59	≤-23.05	PASS
			Reference	7.27		PASS
11B	Ant1	2437	30~1000	-40.24	≤-22.73	PASS
TID		2437	1000~26500	-40.24	≤-22.73	PASS
			Reference	7.80		PASS
		2462	30~1000	-40.27	≤-22.2	PASS
		2402	1000~26500	-40.27	≤-22.2	PASS
			Reference	4.81		PASS
		2412	30~1000	-39.89	 ≤-25.19	PASS
		2412	1000~26500	-39.89	≤-25.19 ≤-25.19	PASS
				5.06	≤-25.19	PASS
110	A -= 14	0407	Reference			
11G	Ant1	2437	30~1000	-40.06	≤-24.94	PASS
			1000~26500	-40.58	≤-24.94	PASS
		0.400	Reference	2.33		PASS
		2462	30~1000	-40.2	≤-27.67	PASS
			1000~26500	-40.46	≤-27.67	PASS
			Reference	4.47		PASS
		2412	30~1000	-40.05	≤-25.53	PASS
			1000~26500	-40.13	≤-25.53	PASS
			Reference	5.26		PASS
11N20SISO	Ant1	2437	30~1000	-40.23	≤-24.74	PASS
	-		1000~26500	-40.42	≤-24.74	PASS
		2462	Reference	5.01		PASS
			30~1000	-40.23	≤-24.99	PASS
			1000~26500	-40.12	≤-24.99	PASS
		2422	Reference	2.24		PASS
			30~1000	-39.66	≤-27.76	PASS
			1000~26500	-41.29	≤-27.76	PASS
			Reference	1.96		PASS
11N40SISO	Ant1	2437	30~1000	-39.65	≤-28.04	PASS
			1000~26500	-40.06	≤-28.04	PASS
			Reference	2.67		PASS
		2452	30~1000	-39.69	≤-27.33	PASS
		-	1000~26500	-40.42	≤-27.33	PASS
			Reference	4.78		PASS
		2412	30~1000	-39.85	≤-25.22	PASS
			1000~26500	-40.47	≤-25.22	PASS
			Reference	3.19		PASS
11AX20SISO	Ant1	2437	30~1000	-39.65	≤-26.81	PASS
			1000~26500	-40.59	≤-26.81	PASS
			Reference	5.18		PASS
		2462	30~1000	-39.76	≤-24.82	PASS
			1000~26500	-39.83	≤-24.82	PASS
			Reference	1.32		PASS
		2422	30~1000	-40.03	 ≤-28.68	PASS
		2722	1000~26500	-40.03	<u>≤-28.68</u>	PASS
			Reference	2.09	<u>≤-20.00</u>	PASS
1147406160	Ant1	0407				PASS
11AX40SISO	Ant1	2437	30~1000	-40.16	≤-27.91 < 27.01	
			1000~26500	-40.05	≤-27.91	PASS
		0450	Reference	1.85		PASS
		2452	30~1000	-40.09	≤-28.15	PASS
			1000~26500	-40.34	≤-28.15	PASS

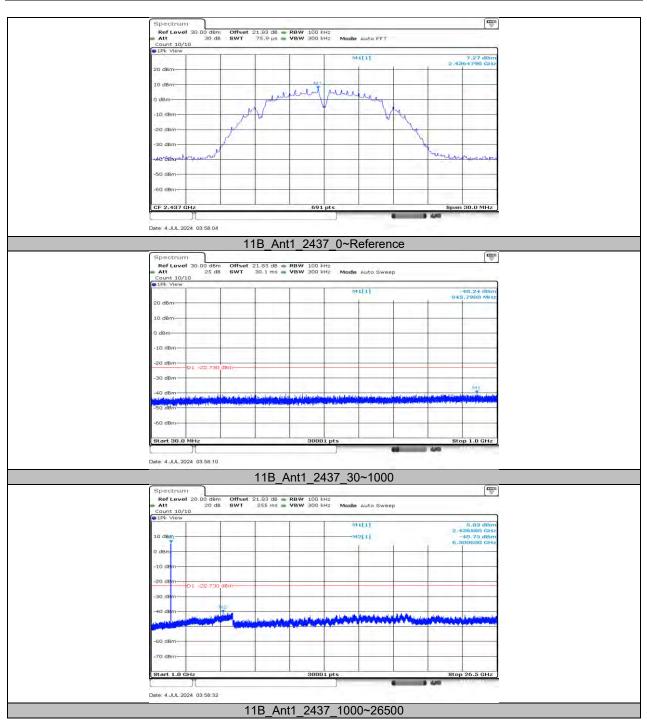
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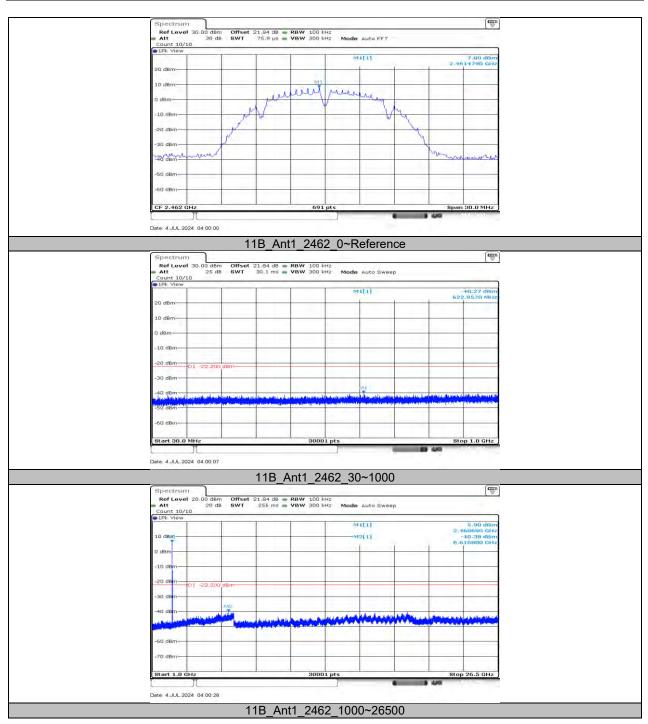
#### 11.6.2. Test Graphs



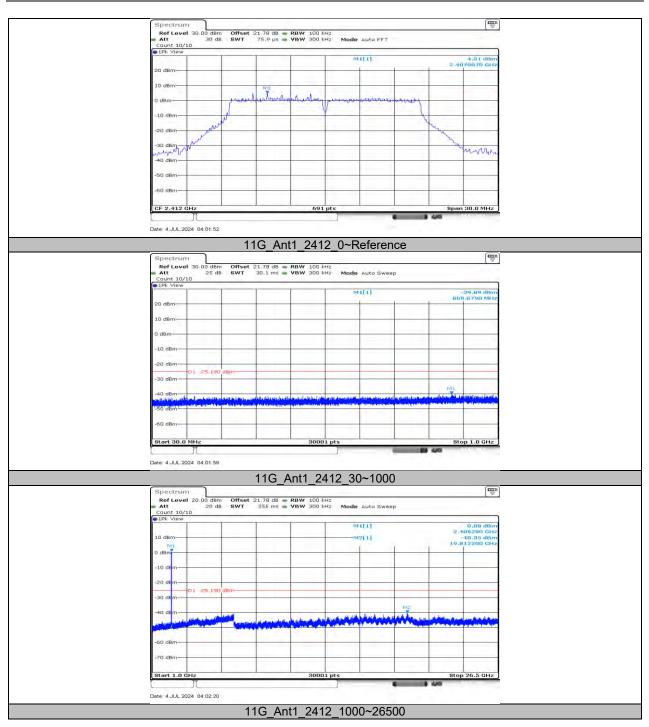




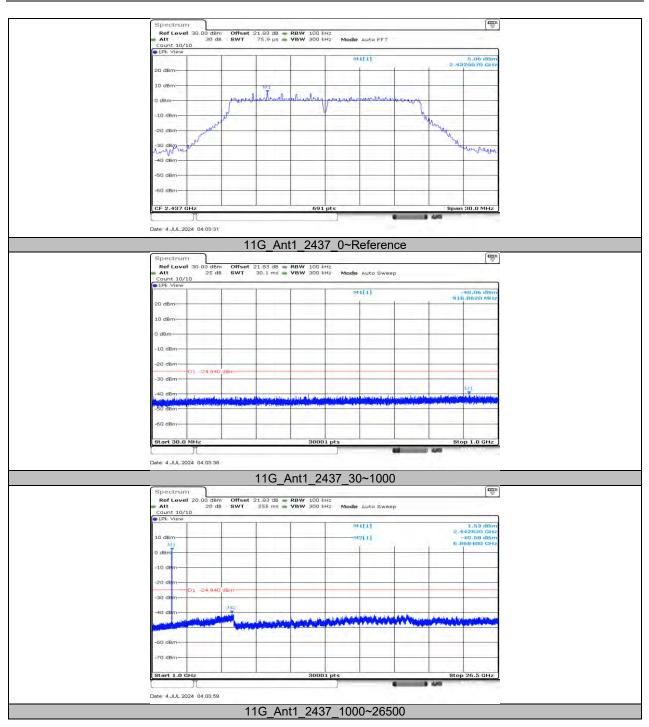




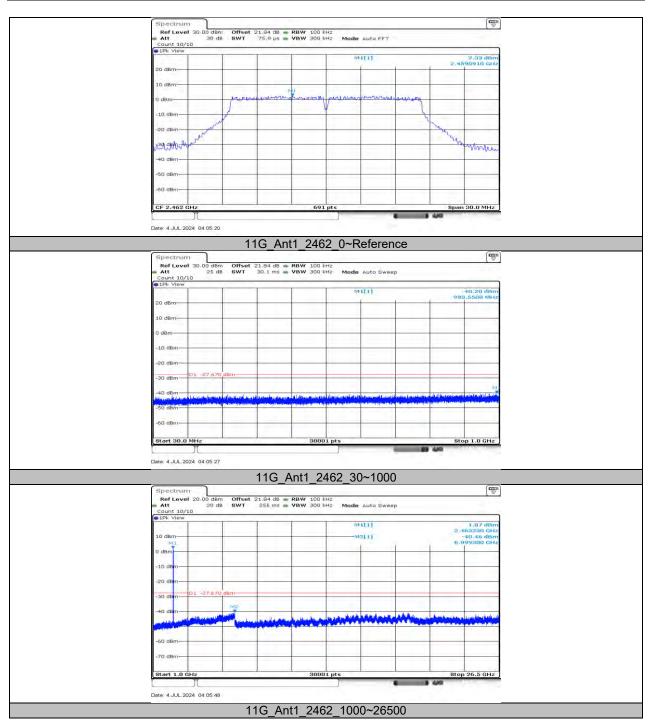




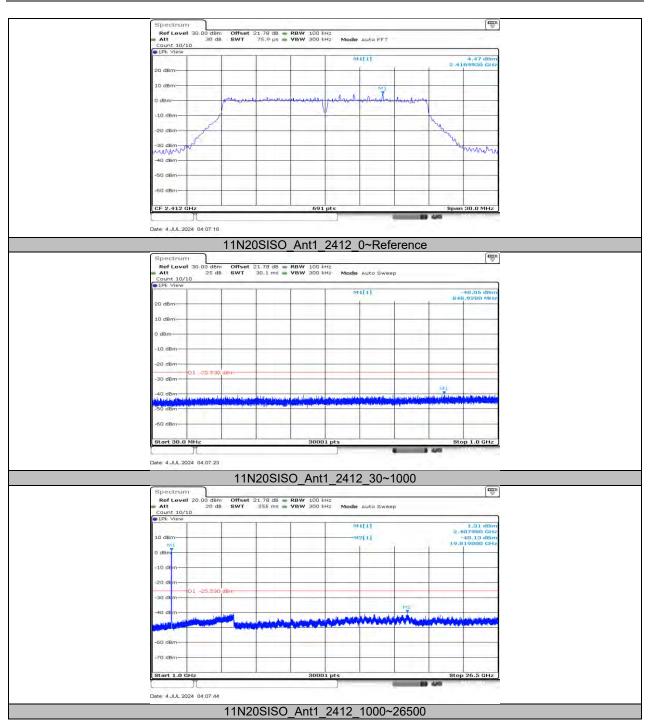




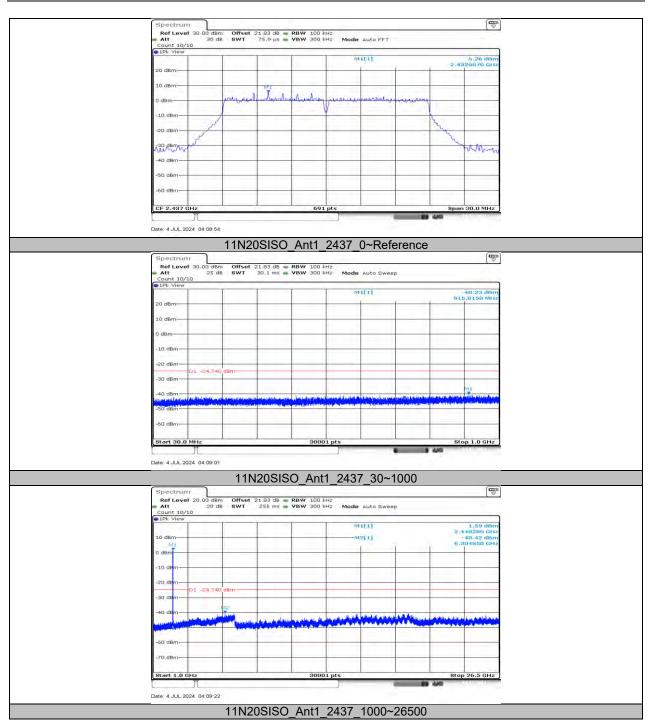




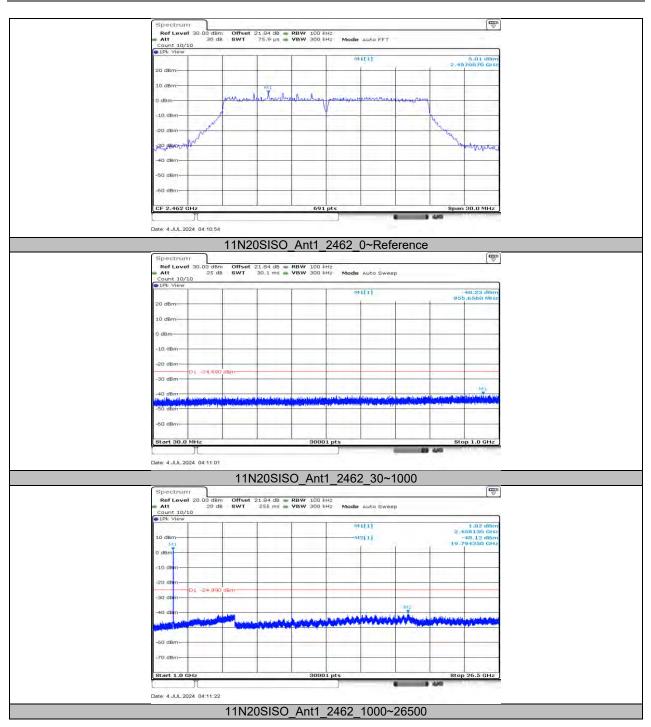




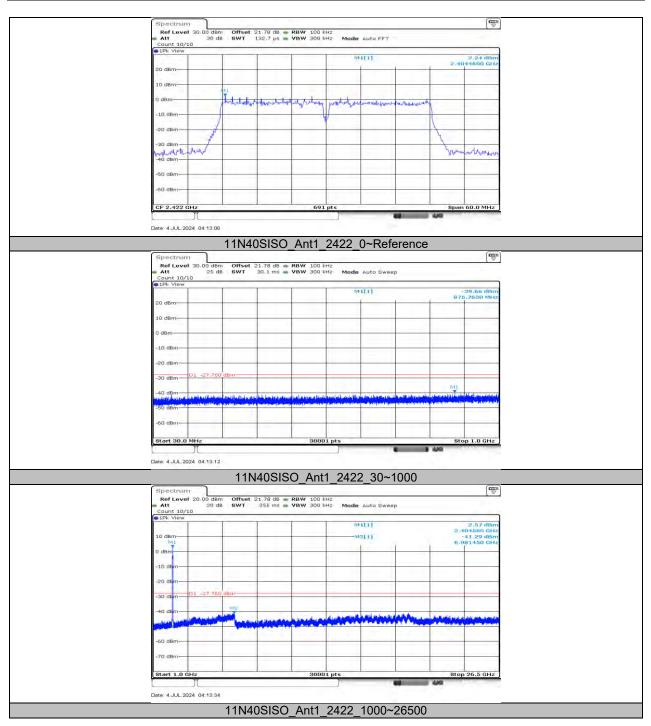




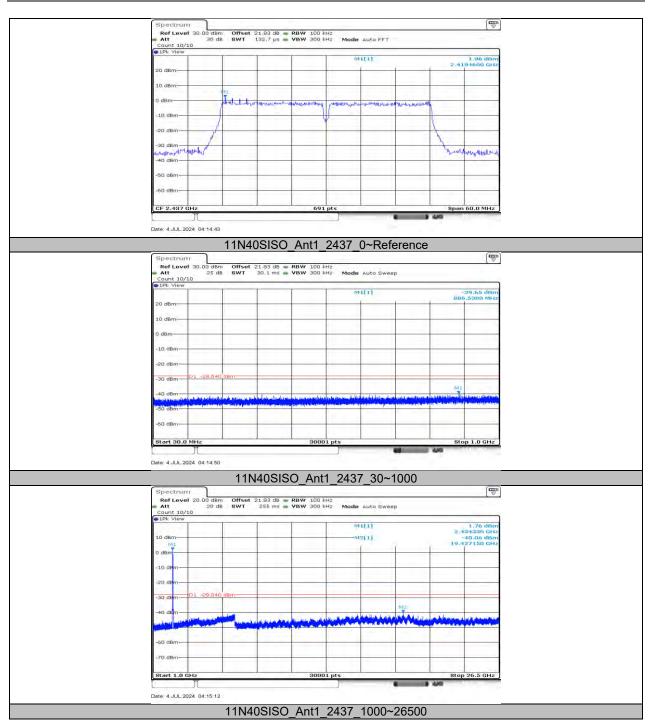




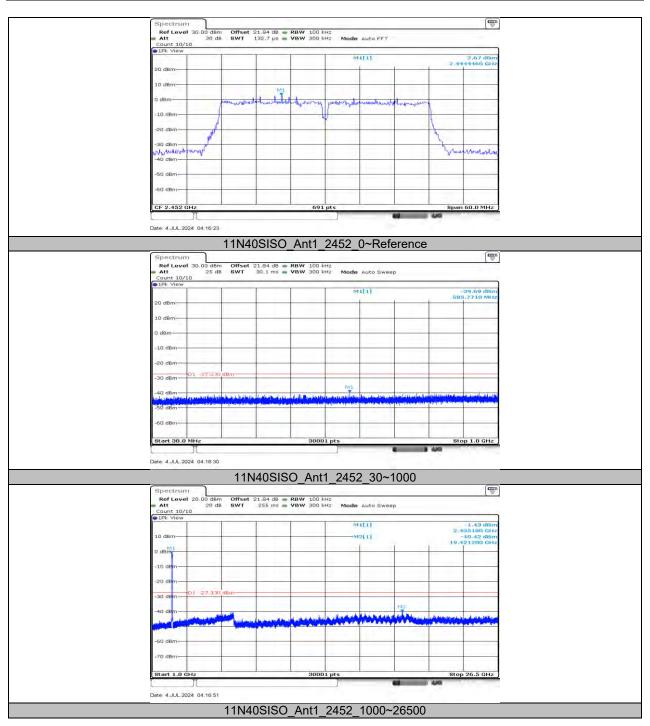




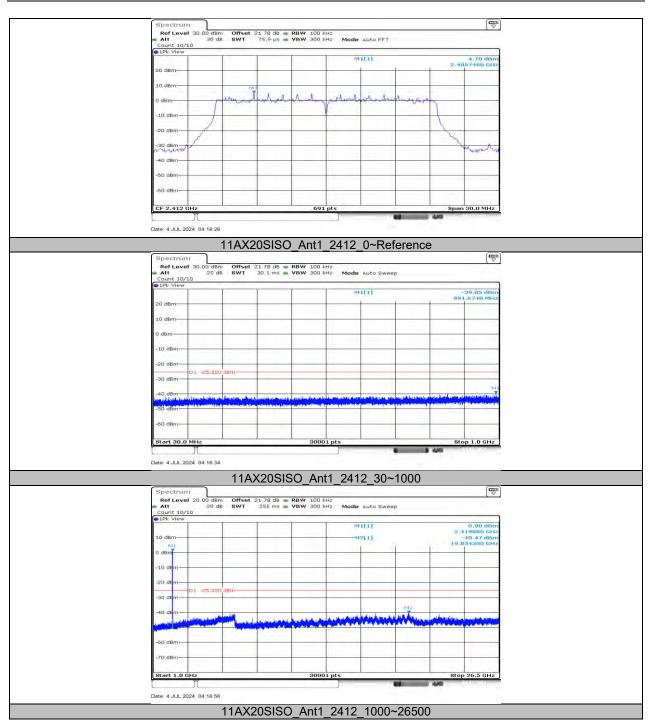




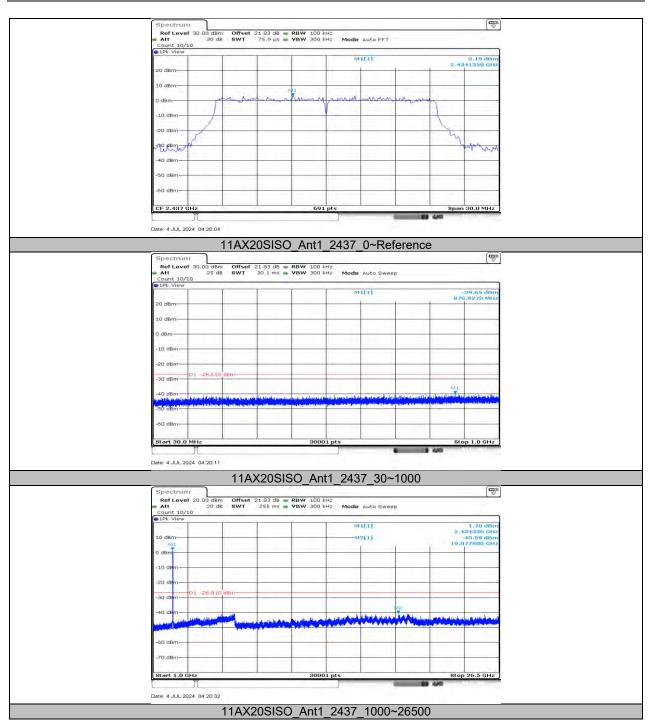




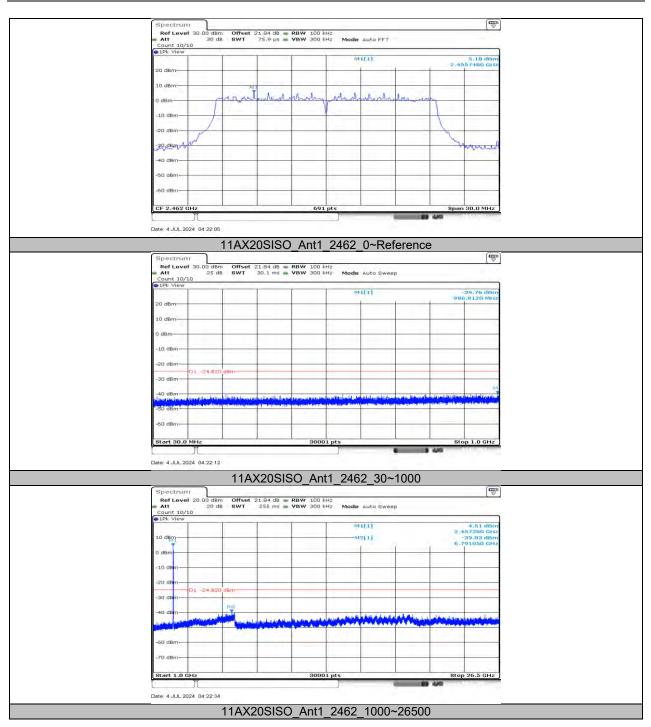




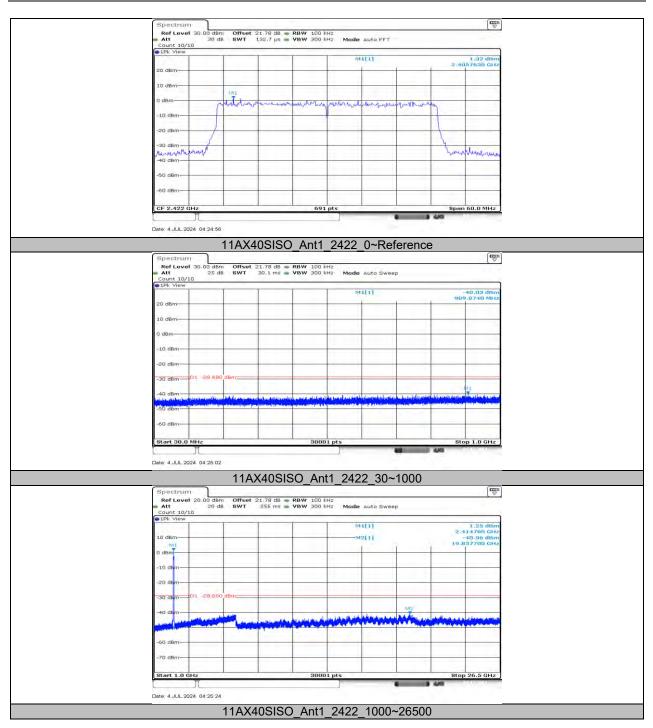




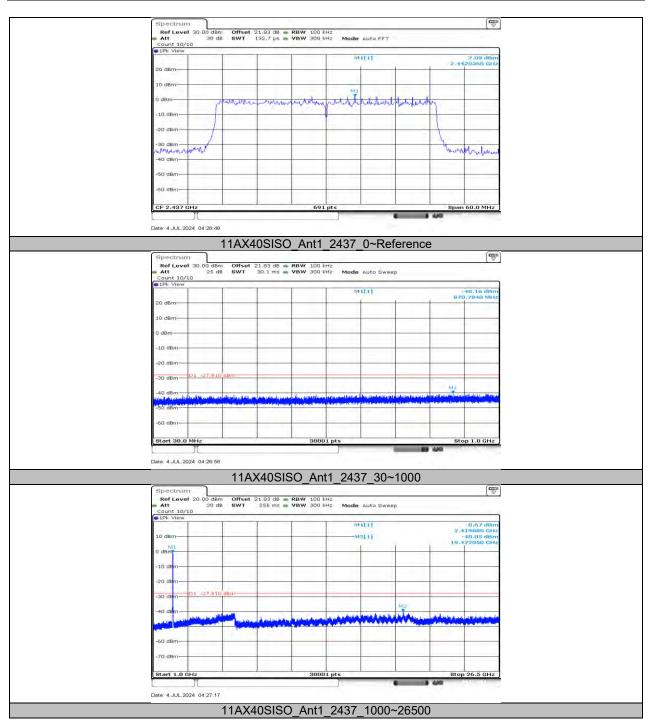




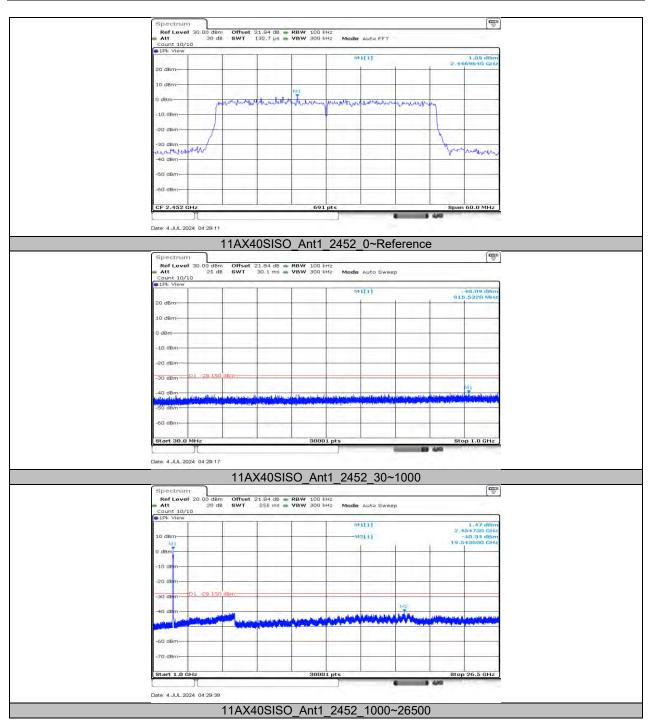














## 11.7. APPENDIX G: DUTY CYCLE 11.7.1. Test Result

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	24.34	0.5107	51.07	2.92	0.08	1
11G	5.47	10.34	0.5290	52.90	2.77	0.18	1
11N20SISO	5.36	10.34	0.5184	51.84	2.85	0.19	1
11N40SISO	3.01	6.35	0.4740	47.40	3.24	0.33	1
11AX20SISO	4.65	10.35	0.4493	44.93	3.47	0.22	1
11AX40SISO	4.62	10.34	0.4468	44.68	3.50	0.22	1

Note:

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

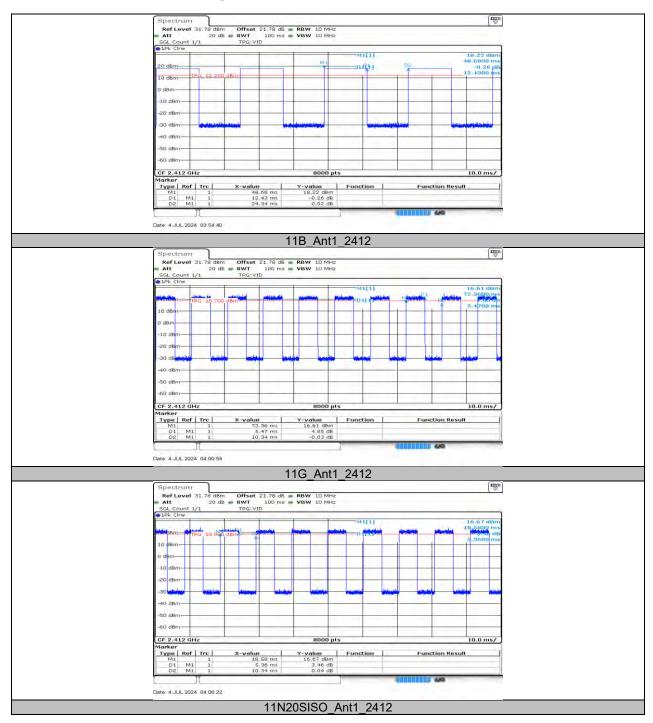
Where: x is Duty Cycle (Linear)

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**