



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

TEST REPORT

For

TIME CRISIS DELUXE EDITION

MODEL NUMBER: TMC-A-300111

REPORT NUMBER: 4790841285.2-1-RF-1

ISSUE DATE: October 17, 2023

FCC ID: 2APXHTMC IC: 24128-TMC

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 17, 2023	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 11.9.1.3	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 11.10.2	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 <Accuracy Method> decision rule is applied.



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Sample ID:

Date of Tested:

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Address:	WF Tastemakers Trading Limited FCC Address: Unit 05 and unit 06, 6th Floor, Greenfield Tower Concordia Plaza, 1 Science Museum Road, TST East, Hong Kong ISED Address: 347 Fifth Avenue Suite 1402-199, New York NY 10018 United States Of America (Excluding The States Of Alaska)
Manufacturer Information	
Company Name:	WF Tastemakers Trading Limited
Address:	FCC Address: Unit 05 and unit 06, 6th Floor, Greenfield Tower Concordia Plaza, 1 Science Museum Road, TST East, Hong Kong ISED Address: 347 Fifth Avenue Suite 1402-199, New York NY 10018 United States Of America (Excluding The States Of Alaska)
EUT Information	
EUT Name:	TIME CRISIS DELUXE EDITION
Model:	TMC-A-300111
Brand:	ARCADE1UP
Sample Received Date:	April 19, 2023
Sample Status:	Normal

April 19, 2023 to July 21, 2023

6053096



APPLICABLE STANDARDS

STANDARD

TEST RESULTS

CFR 47 FCC PART 15 SUBPART C

Pass

ISED RSS-247 ISSUE 3

ras

Prepared By:

Checked By:

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2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification
	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-20019, R-20004, C-20012 and T-20011)
	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-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

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	TIME CRISIS DELUXE EDITION		
Model	TMC-A-300111		
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)		
Radio Technology:	IEEE 802.11b/g/n-HT20/n-HT40		
Normal Test Voltage:	AC 120 V, 60 Hz		

5.2. CHANNEL LIST

Channel List for 802.11b/g/n (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 802.11n (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	12.87	14.71
g	2412 ~ 2462	1-11[11]	9.31	11.15
n HT20	2412 ~ 2462	1-11[11]	8.67	10.51
n HT40	2422 ~ 2452	3-9[7]	8.56	10.4



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	

5.4. TEST CHANNEL CONFIGURATION

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Softw	/are			MP	Tool			
	Transmit			Test C	Channel			
Modulation Mode	Antenna	1	NCB: 20MHz		NCB: 40MHz		:	
Wode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	default	default	default				
802.11g	1	default	default	default	/			
802.11n HT20	1	default	default	default]			
802.11n HT40	1		/		default	default	default	

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

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

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)	Cable loss(dBi)	Final Gain(dBi)
1	2412-2462	Monopole	3.26	-1.42	1.84

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

Note: The value of the antenna gain was declared by customer.



5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	/	/	/	/

I/O CABLES

Item	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

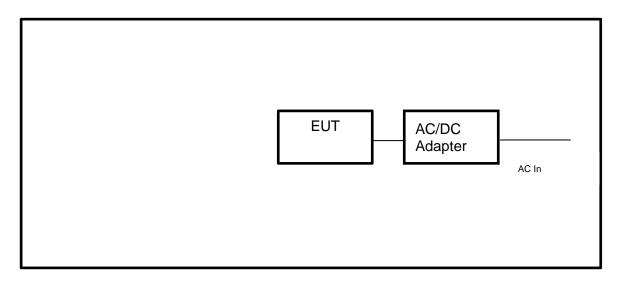
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	AC/DC Adapter	Royal-Etech International Limited	BI36L-120300-I-LED	Input: 100-240 V~, 50/60 Hz 1.2 A Output: DC 12V, 3A, 36 W

TEST SETUP

The EUT can work in an engineer mode with software.

SETUP DIAGRAM FOR TESTS



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System									
Equipment		Manufa	cturer	Model	No.	Serial No.	Last (Cal.	Due. Date
Power sensor, Power N	leter	R&\$	5	OSP1	20	100921	Mar.31,	2023	Mar.30,2024
Vector Signal Genera	tor	R&\$	S	SMBV1	00A	261637	Oct.17,	2022	Oct.16, 2023
Signal Generator		R&\$	5	SMB10	00A	178553	Oct.17,	2022	Oct.16, 2023
Signal Analyzer		R&	5	FSV4	10	101118	Oct.17,	2022	Oct.16, 2023
		1		Softwar	е		1		1
Description			Manut	facturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em Ro	hde 8	Schwai	z	EMC	32		10.60.10
		То	nsen	d RF Te	st Sy	/stem			
Equipment	Man	ufacturer	Mo	del No.	S	Serial No.	Last C	Cal.	Due. Date
Wideband Radio Communication Tester		R&S	CM	IW500	155523		Oct.17,	2022	Oct.16, 2023
Wireless Connectivity Tester		R&S	CM	IW270	120	1.0002N75- 102	Sep.28,	2022	Sep.27, 2023
PXA Signal Analyzer	Ke	eysight	NS	030A	M١	⁄55410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	eysight	N5	5182B	M١	′56200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	eysight	N5	5172B	M١	⁄56200301	Oct.17,	2022	Oct.16, 2023
DC power supply	Ke	eysight	E3	642A	M١	′55159130	Oct.17,	2022	Oct.16, 2023
Temperature & Humidity Chamber	SAN	NMOOD	SG-8	30-CC-2		2088	Oct.17,	2022	Oct.16, 2023
Attenuator	A	glient	84	495B	28	14a12853	Oct.18,	2022	Oct.17, 2023
RF Control Unit	То	nscend	0806-2	238	380620666	April 18	,2023	April 17,2024	
				Softwar	е				
Description		Manufac	turer	rer Name				Version	
Tonsend SRD Test Sys	tem	Tonse	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.17, 2022	Oct.16, 2023			
Two-Line V- Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023			
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023			
		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.	Last Cal.	Due Date			
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023			
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024			
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023			
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023			
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023			
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023			
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023			
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024			
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023			
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01202035	Oct.17, 2022	Oct.16, 2023			
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Dec.01, 2022	Nov.30, 2023			
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Dec.01, 2022	Nov.30, 2023			
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Dec.01, 2022	Nov.30, 2023			

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r	1				r		
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Dec.01, 2022	Nov.30, 2023		
Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	Dec.01, 2022	Nov.30, 2023		
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Dec.01, 2022	Nov.30, 2023		
Band Reject Filter	Wainwright	WRCD5- 1879- 1879.85- 1880.15- 1881-40SS	1	Dec.01, 2022	Nov.30, 2023		
Notch Filter	Wainwright	WHJ10-882- 980-7000- 40SS	1	Dec.01, 2022	Nov.30, 2023		
	Software						
	Description		Manufacturer	Name	Version		
Test Software	e for Radiated E	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.22, 2022	Oct.21, 2023			
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.23, 2023			
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023			



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

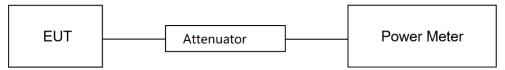
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	25.2 ℃	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date April 29, 2023 Test By Wa	Valker Yuan
-------------------------------------	-------------

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 analyser and use the following settings	Connect the EUT to	o the spectrum a	analyser 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
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

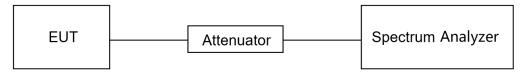
a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

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	25.2 ℃	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	April 29, 2023	Test By	Walker Yuan
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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.

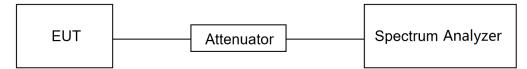
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	power averaging (rms)	
RBW	$3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$	
VBW	≥3 × RBW	
Span	1.5 x OBW bandwidth	
Trace	Average	
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	25.2 ℃	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	April 29, 2023	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix D



7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

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

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

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

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

Change the settings for emission level measurement:

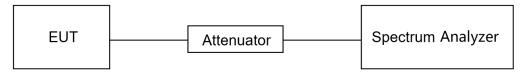
ISpan	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

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TEST SETUP



TEST ENVIRONMENT

Temperature	25.2 ℃	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	April 29, 2023	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix E&F



7.5. DUTY CYCLE

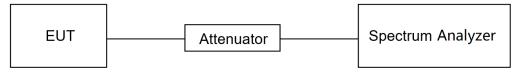
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2 ℃	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date April 29, 2023 Test By Wa	/alker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix G



8. RADIATED TEST RESULTS

LIMITS

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

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

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

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Stren (dBuV/m)	•
		Quasi-I	Peak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	500	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 ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

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



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

Hz	MHz	GHz
090 - 0.110	149.9 - 150.05	9.0 - 9.2
495 - 0.505	158.52475 - 158.52525	9.3 - 9.5
1735 - 2.1905	158.7 - 156.9	10.6 - 12.7
020 - 3.028	162.0125 - 167.17	13.25 - 13.4
125 - 4.128	167.72 - 173.2	14.47 - 14.5
17725 - 4.17775	240 - 285	15.35 - 16.2
20725 - 4.20775	322 - 335.4	17.7 - 21.4
677 - 5.683	399.9 - 410	22.01 - 23.12
215 - 6.218	608 - 614	23.6 - 24.0
26775 - 6.26825	960 - 1427	31.2 - 31.8
31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
291 - 8.294	1645.5 - 1646.5	Above 38.6
362 - 8.366	1660 - 1710	
37625 - 8.38675	1718.8 - 1722.2	
41425 - 8.41475	2200 - 2300	
2.29 - 12.293	2310 - 2390	
2.51975 - 12.52025	2483.5 - 2500	
2.57675 - 12.57725	2655 - 2900	
3.36 - 13.41	3260 - 3267	
3.42 - 16.423	3332 - 3339	
8.69475 - 16.69525	3345.8 - 3358	
3.80425 - 16.80475	3500 - 4400	
5.5 - 25.67	4500 - 5150	
1.5 - 38.25	5350 - 5460	
3 - 74.8	7250 - 7750	
4.8 - 75.2	8025 - 8500	
18 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-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):

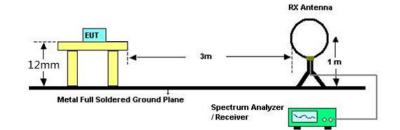
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218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

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



TEST SETUP AND PROCEDURE

Below 30 MHz



The setting of the spectrum analyser

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
Trace	Max hold

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 12 mm 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.

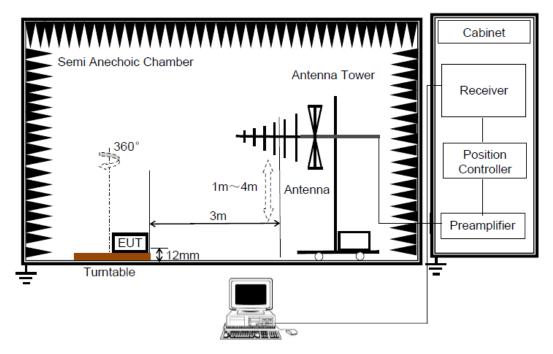
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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 30 m 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.



Below 1 GHz and above 30 MHz



The setting of the spectrum analyser

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.

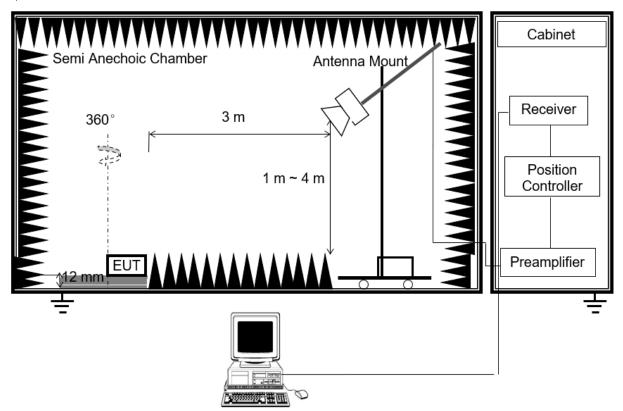
3. The EUT was placed on a turntable with 12 mm above ground.

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 analyser

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 12 mm 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.

Note: The manufacturer has recommended that the EUT only be used in the Floor-standing orientation; therefore, all radiated testing was performed in the orientation.

The EUT was placed on normal orientation and all radiated emissions were performed with the EUT shown on the setup photo.

For Band edge:

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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7. Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8. All modes and channels have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 1GHz-3GHz:

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 and channels have been tested, only the worst data was recorded in the report.



For Radiate Spurious emission 3GHz-18GHz: 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 and channels have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 9kHz-30MHz:

Note:

1.Measurement = Reading Level + Correct Factor.

 $(dBuA/m = dBuV/m - 20Log10[120\pi] = dBuV/m - 51.5).$

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 and channels have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 18GHz-26GHz:

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 and channels have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 30MHz-1GHz:

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. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

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

TEST ENVIRONMENT

Temperature	25.3 ℃	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

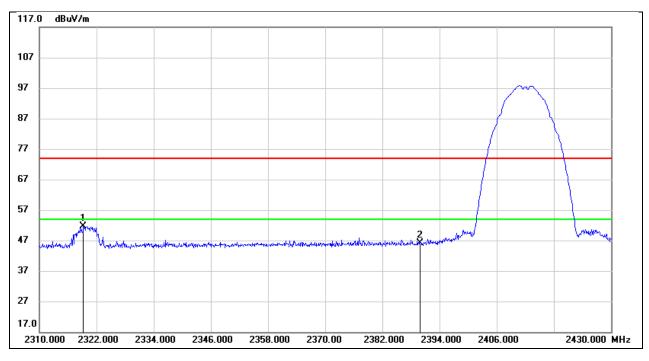
Test Date May 25, 2023 Test By Rex Huang	
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TEST RESULTS



8.1. RESTRICTED BANDEDGE

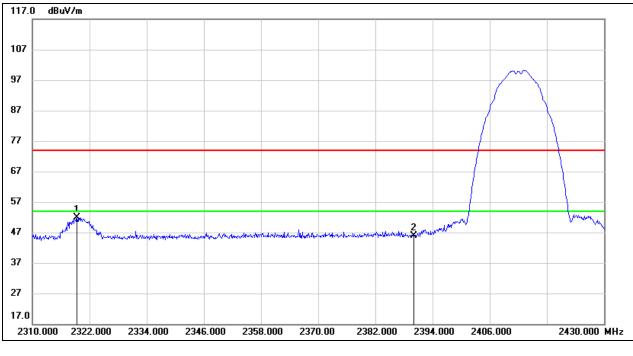
Test Mode:	802.11b PK	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.240	19.61	31.95	51.56	74.00	-22.44	peak
2	2390.000	13.90	32.16	46.06	74.00	-27.94	peak



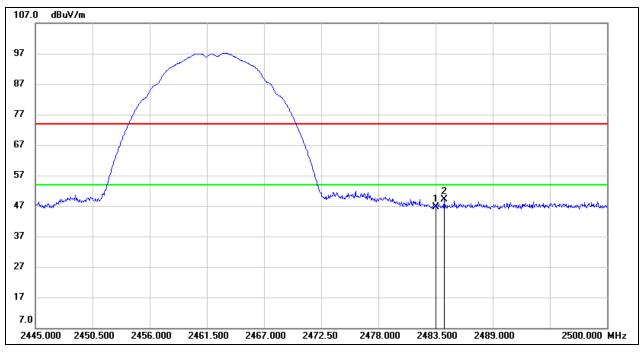
Test Mode:	802.11b PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.360	19.98	31.95	51.93	74.00	-22.07	peak
2	2390.000	13.76	32.16	45.92	74.00	-28.08	peak



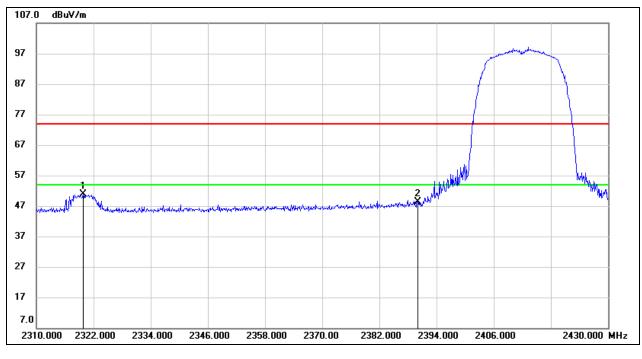
Test Mode:	802.11b PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	14.18	32.44	46.62	74.00	-27.38	peak
2	2484.325	16.74	32.44	49.18	74.00	-24.82	peak



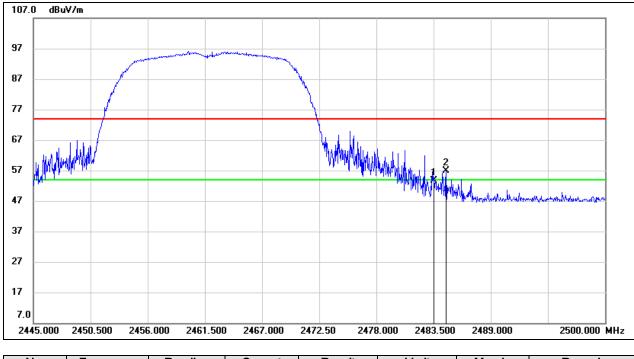
Test Mode:	802.11g PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.840	18.82	31.95	50.77	74.00	-23.23	peak
2	2390.000	16.19	32.16	48.35	74.00	-25.65	peak



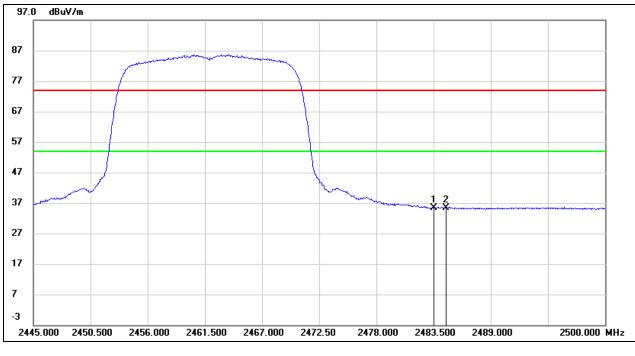
Test Mode:	802.11g PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	21.10	32.44	53.54	74.00	-20.46	peak
2	2484.710	24.35	32.44	56.79	74.00	-17.21	peak



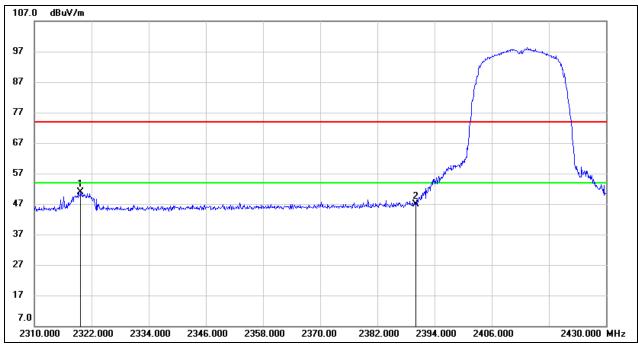
Test Mode:	802.11g AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	3.00	32.44	35.44	54.00	-18.56	AVG
2	2484.710	3.05	32.44	35.49	54.00	-18.51	AVG



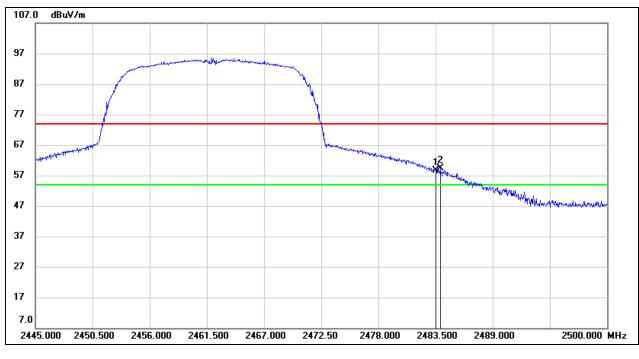
Test Mode:	802.11n HT20 PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.720	19.00	31.95	50.95	74.00	-23.05	peak
2	2390.000	14.82	32.16	46.98	74.00	-27.02	peak



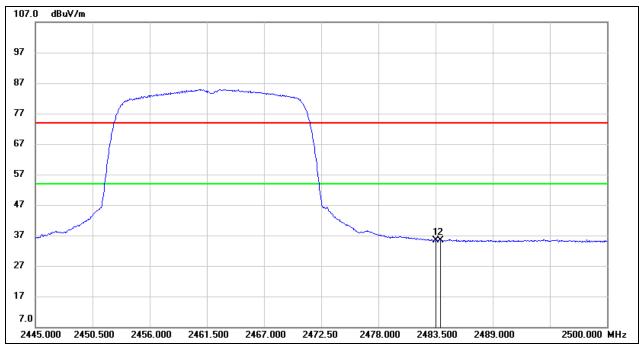
Test Mode:	802.11n HT20 PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	26.07	32.44	58.51	74.00	-15.49	peak
2	2483.940	26.98	32.44	59.42	74.00	-14.58	peak



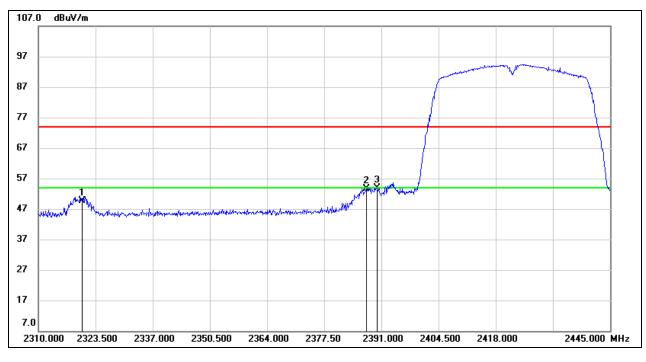
Test Mode:	802.11n HT20 AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	2.95	32.44	35.39	54.00	-18.61	AVG
2	2483.940	2.96	32.44	35.40	54.00	-18.60	AVG



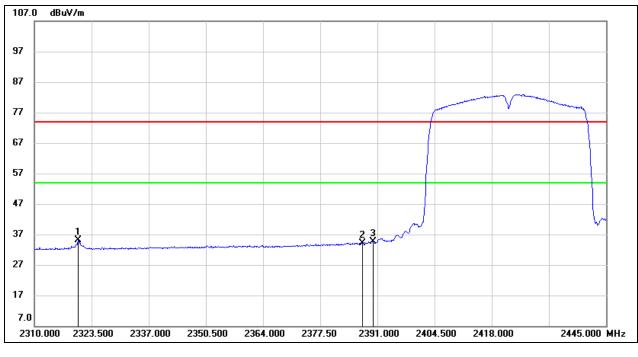
Test Mode:	802.11n HT40 PK	Channel:	2422
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2320.260	17.65	31.95	49.60	74.00	-24.40	peak
2	2387.490	21.59	32.15	53.74	74.00	-20.26	peak
3	2390.000	21.78	32.16	53.94	74.00	-20.06	peak



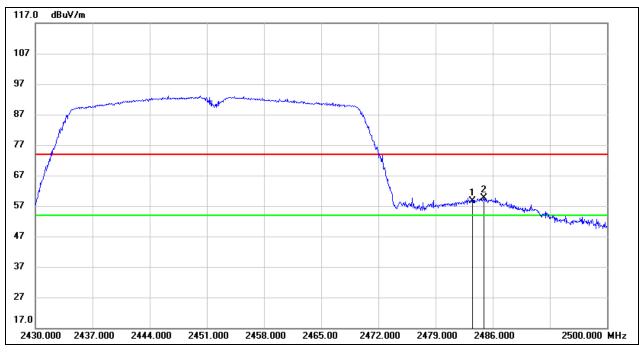
Test Mode:	802.11n HT40 AV	Channel:	2422
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2320.260	3.26	31.95	35.21	54.00	-18.79	AVG
2	2387.490	2.02	32.15	34.17	54.00	-19.83	AVG
3	2390.000	2.49	32.16	34.65	54.00	-19.35	AVG



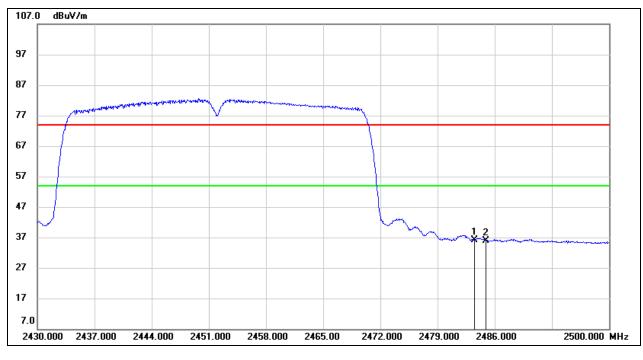
Test Mode:	802.11n HT40 PK	Channel:	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	26.17	32.44	58.61	74.00	-15.39	peak
2	2484.950	27.08	32.44	59.52	74.00	-14.48	peak



Test Mode:	802.11n HT40 AV	Channel:	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz

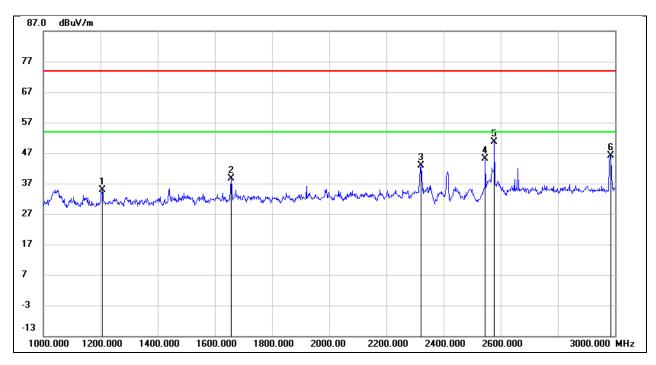


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	3.71	32.44	36.15	54.00	-17.85	AVG
2	2484.950	3.41	32.44	35.85	54.00	-18.15	AVG



8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

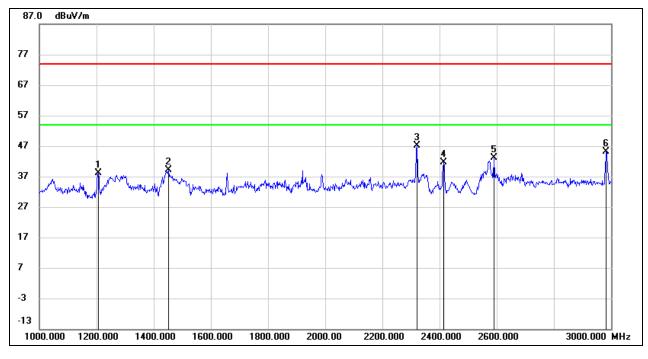
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1206.000	48.83	-14.07	34.76	74.00	-39.24	peak
2	1656.000	50.86	-12.20	38.66	74.00	-35.34	peak
3	2320.000	52.32	-9.42	42.90	74.00	-31.10	peak
4	2546.000	53.39	-8.36	45.03	74.00	-28.97	peak
5	2578.000	58.77	-8.26	50.51	74.00	-23.49	peak
6	2984.000	53.23	-7.03	46.20	74.00	-27.80	peak



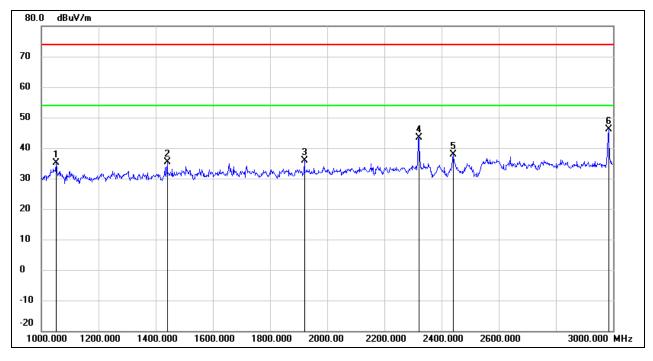
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1206.000	52.23	-14.07	38.16	74.00	-35.84	peak
2	1452.000	52.03	-12.93	39.10	74.00	-34.90	peak
3	2320.000	56.62	-9.42	47.20	74.00	-26.80	peak
4	2412.000	50.49	-8.93	41.56	/	/	fundamental
5	2590.000	51.45	-8.22	43.23	74.00	-30.77	peak
6	2982.000	52.18	-7.03	45.15	74.00	-28.85	peak



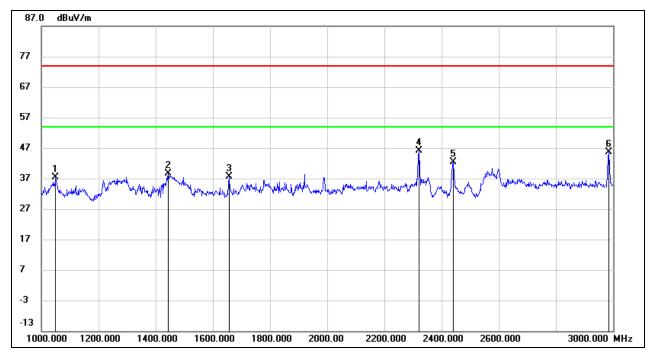
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.000	49.83	-14.79	35.04	74.00	-38.96	peak
2	1440.000	48.46	-12.98	35.48	74.00	-38.52	peak
3	1920.000	47.31	-11.32	35.99	74.00	-38.01	peak
4	2320.000	52.76	-9.42	43.34	74.00	-30.66	peak
5	2437.000	46.63	-8.80	37.83	/	/	fundamental
6	2984.000	53.22	-7.03	46.19	74.00	-27.81	peak



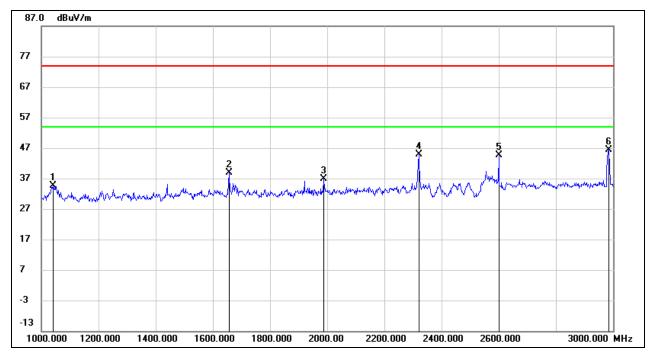
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1050.000	52.08	-14.80	37.28	74.00	-36.72	peak
2	1444.000	51.60	-12.97	38.63	74.00	-35.37	peak
3	1656.000	49.83	-12.20	37.63	74.00	-36.37	peak
4	2320.000	55.56	-9.42	46.14	74.00	-27.86	peak
5	2437.000	51.28	-8.80	42.48	/	/	fundamental
6	2986.000	52.55	-7.03	45.52	74.00	-28.48	peak



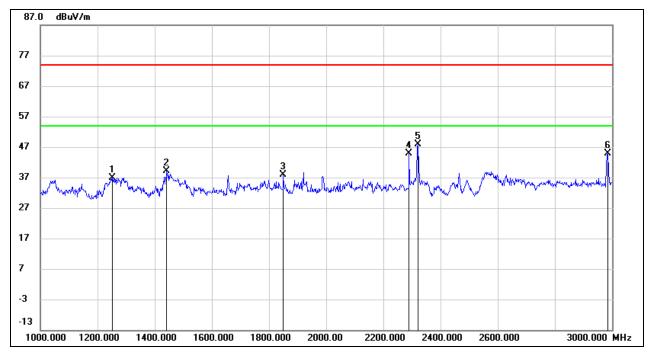
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1040.000	49.57	-14.84	34.73	74.00	-39.27	peak
2	1656.000	51.19	-12.20	38.99	74.00	-35.01	peak
3	1988.000	48.09	-11.10	36.99	74.00	-37.01	peak
4	2320.000	54.18	-9.42	44.76	74.00	-29.24	peak
5	2600.000	52.74	-8.19	44.55	74.00	-29.45	peak
6	2984.000	53.49	-7.03	46.46	74.00	-27.54	peak



Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz

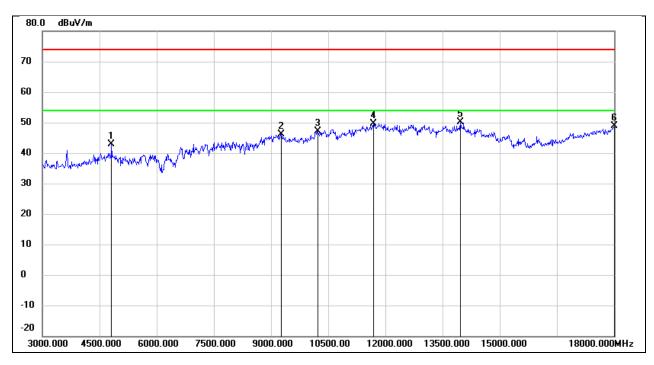


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1252.000	50.86	-13.86	37.00	74.00	-37.00	peak
2	1442.000	52.20	-12.98	39.22	74.00	-34.78	peak
3	1850.000	49.50	-11.55	37.95	74.00	-36.05	peak
4	2290.000	54.42	-9.58	44.84	74.00	-29.16	peak
5	2320.000	57.42	-9.42	48.00	74.00	-26.00	peak
6	2986.000	51.97	-7.03	44.94	74.00	-29.06	peak



8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

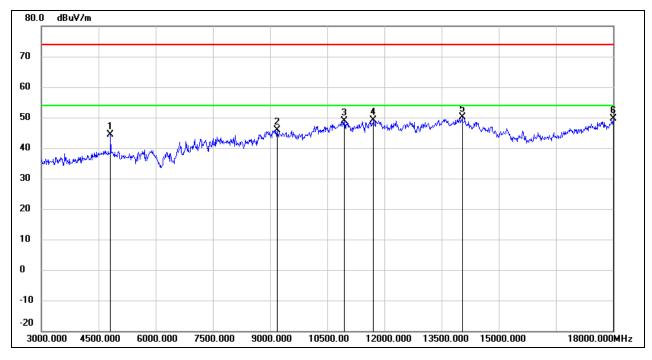
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	43.26	-0.26	43.00	74.00	-31.00	peak
2	9270.000	35.61	10.59	46.20	74.00	-27.80	peak
3	10230.000	34.65	12.46	47.11	74.00	-26.89	peak
4	11685.000	32.43	17.10	49.53	74.00	-24.47	peak
5	13965.000	28.13	21.89	50.02	74.00	-23.98	peak
6	18000.000	23.09	25.69	48.78	74.00	-25.22	peak



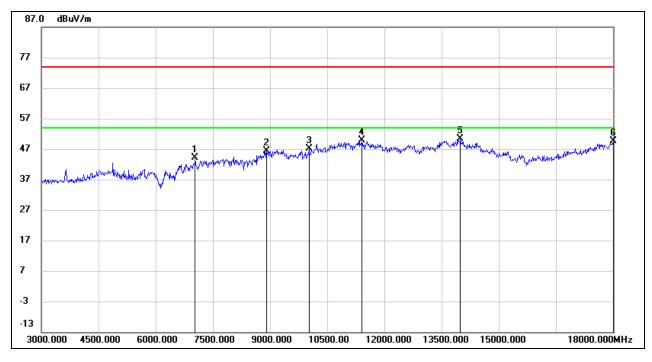
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	44.74	-0.26	44.48	74.00	-29.52	peak
2	9180.000	35.30	10.56	45.86	74.00	-28.14	peak
3	10950.000	34.38	14.60	48.98	74.00	-25.02	peak
4	11715.000	31.82	17.19	49.01	74.00	-24.99	peak
5	14040.000	28.25	21.79	50.04	74.00	-23.96	peak
6	18000.000	23.87	25.69	49.56	74.00	-24.44	peak



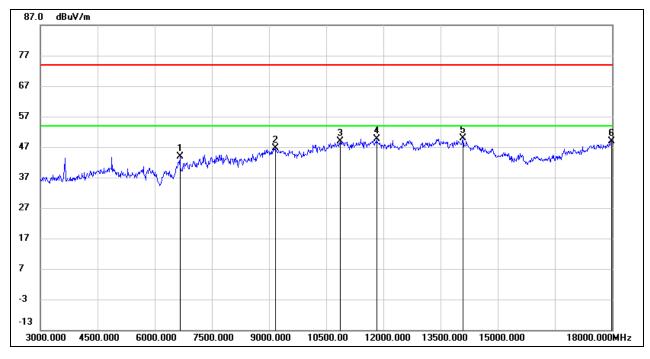
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	37.49	6.67	44.16	74.00	-29.84	peak
2	8910.000	36.52	9.82	46.34	74.00	-27.66	peak
3	10020.000	34.96	12.06	47.02	74.00	-26.98	peak
4	11415.000	33.62	16.29	49.91	74.00	-24.09	peak
5	13995.000	28.35	21.95	50.30	74.00	-23.70	peak
6	18000.000	24.05	25.69	49.74	74.00	-24.26	peak



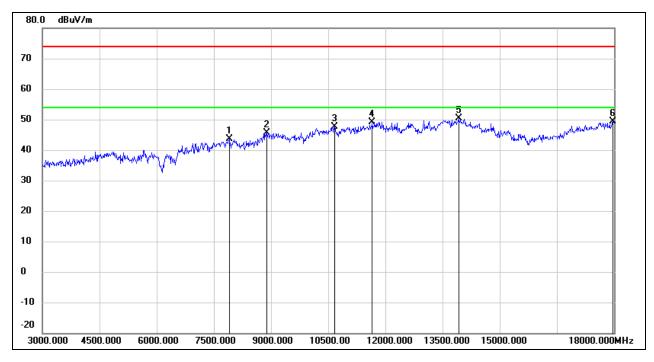
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6660.000	38.86	5.02	43.88	74.00	-30.12	peak
2	9165.000	36.12	10.55	46.67	74.00	-27.33	peak
3	10860.000	34.53	14.27	48.80	74.00	-25.20	peak
4	11820.000	32.25	17.47	49.72	74.00	-24.28	peak
5	14085.000	28.37	21.61	49.98	74.00	-24.02	peak
6	17985.000	23.26	25.60	48.86	74.00	-25.14	peak



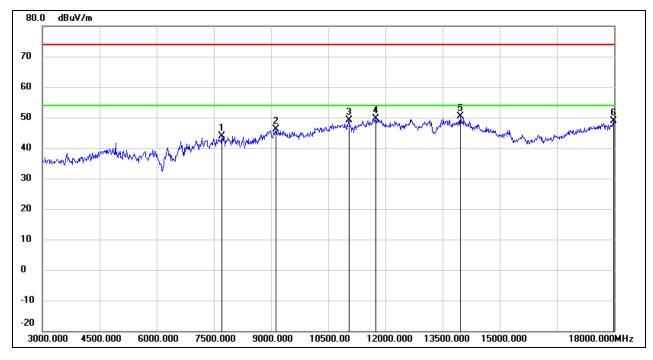
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7905.000	37.35	6.31	43.66	74.00	-30.34	peak
2	8895.000	35.91	9.71	45.62	74.00	-28.38	peak
3	10665.000	34.17	13.58	47.75	74.00	-26.25	peak
4	11655.000	32.11	17.01	49.12	74.00	-24.88	peak
5	13920.000	28.68	21.79	50.47	74.00	-23.53	peak
6	17970.000	23.82	25.51	49.33	74.00	-24.67	peak



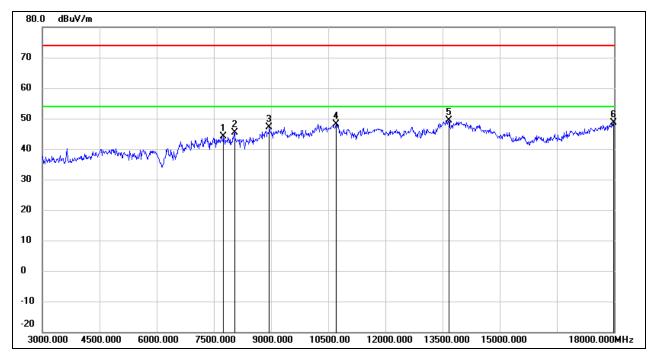
Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7710.000	37.53	6.33	43.86	74.00	-30.14	peak
2	9135.000	35.56	10.55	46.11	74.00	-27.89	peak
3	11040.000	34.17	14.91	49.08	74.00	-24.92	peak
4	11745.000	32.27	17.27	49.54	74.00	-24.46	peak
5	13965.000	28.37	21.89	50.26	74.00	-23.74	peak
6	17985.000	23.19	25.60	48.79	74.00	-25.21	peak



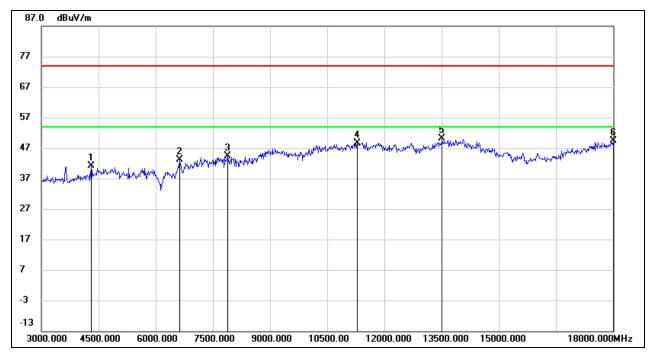
Test Mode:	802.11g	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7755.000	37.73	6.31	44.04	74.00	-29.96	peak
2	8040.000	38.94	6.34	45.28	74.00	-28.72	peak
3	8955.000	36.92	10.16	47.08	74.00	-26.92	peak
4	10710.000	34.40	13.73	48.13	74.00	-25.87	peak
5	13665.000	28.20	21.25	49.45	74.00	-24.55	peak
6	17985.000	23.11	25.60	48.71	74.00	-25.29	peak



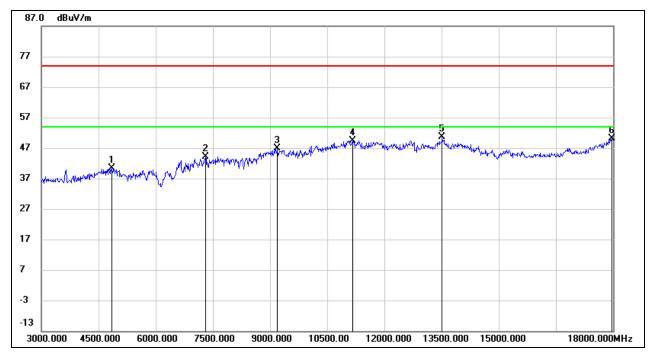
Test Mode:	802.11g	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4305.000	43.46	-2.38	41.08	74.00	-32.92	peak
2	6630.000	38.38	4.86	43.24	74.00	-30.76	peak
3	7890.000	37.99	6.31	44.30	74.00	-29.70	peak
4	11280.000	32.80	15.80	48.60	74.00	-25.40	peak
5	13515.000	29.17	20.93	50.10	74.00	-23.90	peak
6	18000.000	23.71	25.69	49.40	74.00	-24.60	peak



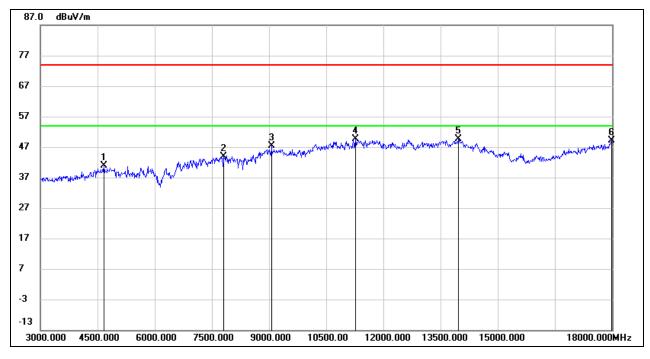
Test Mode:	802.11g	Channel:	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	40.47	-0.15	40.32	74.00	-33.68	peak
2	7305.000	37.60	6.47	44.07	74.00	-29.93	peak
3	9195.000	36.30	10.56	46.86	74.00	-27.14	peak
4	11160.000	33.99	15.36	49.35	74.00	-24.65	peak
5	13515.000	29.78	20.93	50.71	74.00	-23.29	peak
6	17970.000	24.69	25.51	50.20	74.00	-23.80	peak



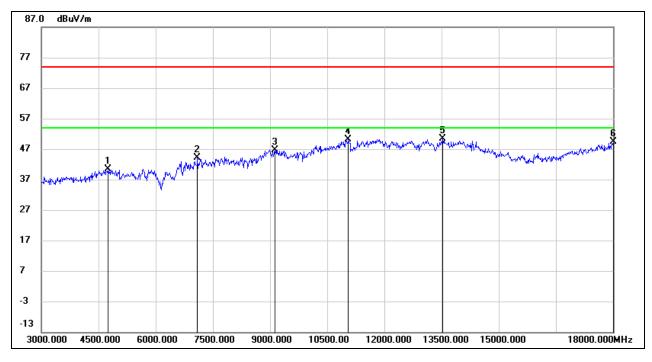
Test Mode:	802.11g	Channel:	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4665.000	41.65	-0.83	40.82	74.00	-33.18	peak
2	7815.000	37.59	6.32	43.91	74.00	-30.09	peak
3	9060.000	36.94	10.51	47.45	74.00	-26.55	peak
4	11265.000	33.96	15.74	49.70	74.00	-24.30	peak
5	13965.000	27.65	21.89	49.54	74.00	-24.46	peak
6	17985.000	23.49	25.60	49.09	74.00	-24.91	peak



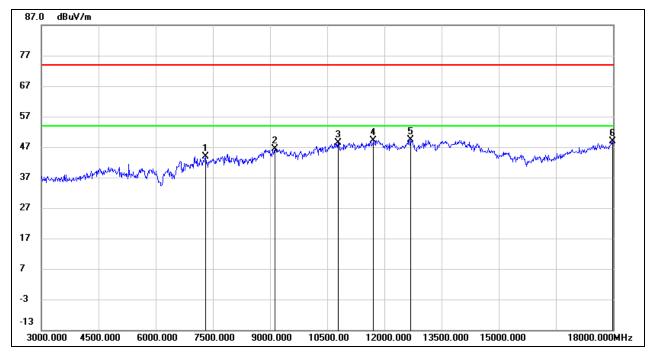
Test Mode:	802.11g	Channel:	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4755.000	40.86	-0.48	40.38	74.00	-33.62	peak
2	7095.000	37.44	6.62	44.06	74.00	-29.94	peak
3	9135.000	36.04	10.55	46.59	74.00	-27.41	peak
4	11055.000	35.09	14.96	50.05	74.00	-23.95	peak
5	13530.000	29.33	20.96	50.29	74.00	-23.71	peak
6	18000.000	23.60	25.69	49.29	74.00	-24.71	peak



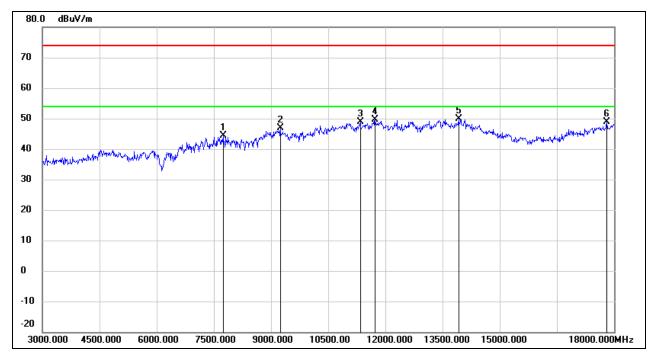
Test Mode:	802.11g	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7305.000	37.44	6.47	43.91	74.00	-30.09	peak
2	9120.000	35.87	10.53	46.40	74.00	-27.60	peak
3	10785.000	34.29	14.01	48.30	74.00	-25.70	peak
4	11715.000	32.03	17.19	49.22	74.00	-24.78	peak
5	12690.000	31.40	18.02	49.42	74.00	-24.58	peak
6	17985.000	23.25	25.60	48.85	74.00	-25.15	peak



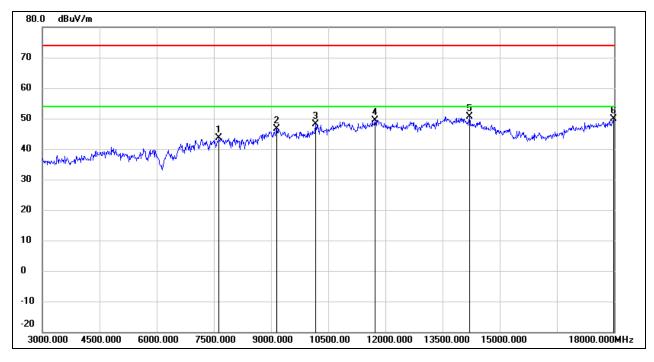
Test Mode:	802.11n HT20	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7740.000	38.04	6.32	44.36	74.00	-29.64	peak
2	9240.000	36.20	10.58	46.78	74.00	-27.22	peak
3	11340.000	32.89	16.01	48.90	74.00	-25.10	peak
4	11730.000	32.35	17.22	49.57	74.00	-24.43	peak
5	13920.000	28.19	21.79	49.98	74.00	-24.02	peak
6	17805.000	24.27	24.54	48.81	74.00	-25.19	peak



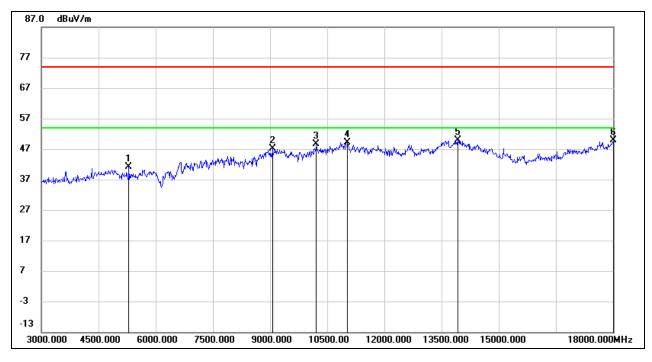
Test Mode:	802.11n HT20	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7635.000	37.21	6.33	43.54	74.00	-30.46	peak
2	9150.000	36.18	10.54	46.72	74.00	-27.28	peak
3	10170.000	35.81	12.34	48.15	74.00	-25.85	peak
4	11730.000	32.22	17.22	49.44	74.00	-24.56	peak
5	14205.000	29.47	21.11	50.58	74.00	-23.42	peak
6	17985.000	24.38	25.60	49.98	74.00	-24.02	peak



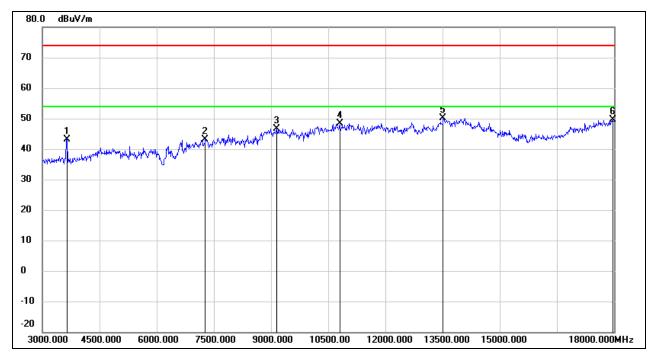
Test Mode:	802.11n HT20	Channel:	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5295.000	40.42	0.69	41.11	74.00	-32.89	peak
2	9060.000	36.64	10.51	47.15	74.00	-26.85	peak
3	10215.000	36.23	12.43	48.66	74.00	-25.34	peak
4	11025.000	34.39	14.85	49.24	74.00	-24.76	peak
5	13920.000	28.11	21.79	49.90	74.00	-24.10	peak
6	18000.000	24.16	25.69	49.85	74.00	-24.15	peak



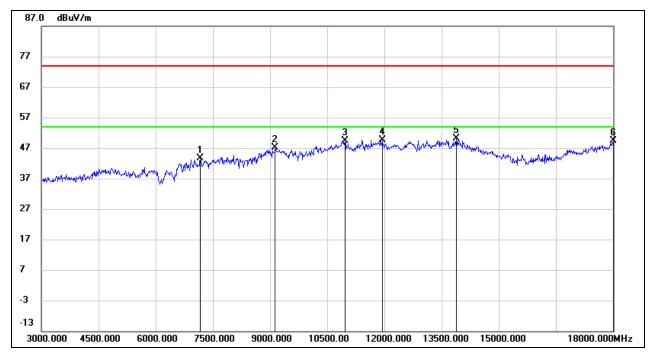
Test Mode:	802.11n HT20	Channel:	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3645.000	47.80	-4.62	43.18	74.00	-30.82	peak
2	7275.000	36.64	6.49	43.13	74.00	-30.87	peak
3	9150.000	36.17	10.54	46.71	74.00	-27.29	peak
4	10800.000	34.30	14.06	48.36	74.00	-25.64	peak
5	13515.000	29.18	20.93	50.11	74.00	-23.89	peak
6	17970.000	24.01	25.51	49.52	74.00	-24.48	peak



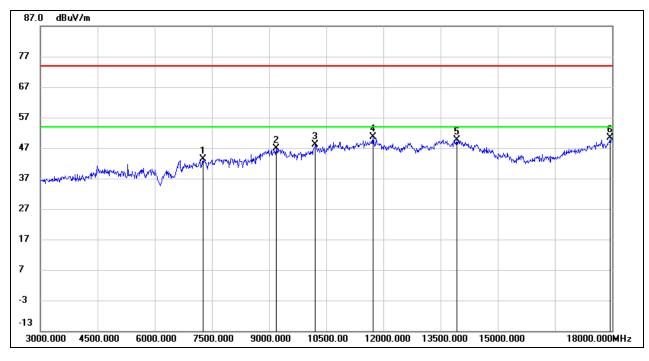
Test Mode:	802.11n HT20	Channel:	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7170.000	37.08	6.56	43.64	74.00	-30.36	peak
2	9135.000	36.70	10.55	47.25	74.00	-26.75	peak
3	10965.000	34.70	14.64	49.34	74.00	-24.66	peak
4	11940.000	31.90	17.80	49.70	74.00	-24.30	peak
5	13890.000	28.39	21.72	50.11	74.00	-23.89	peak
6	18000.000	23.73	25.69	49.42	74.00	-24.58	peak



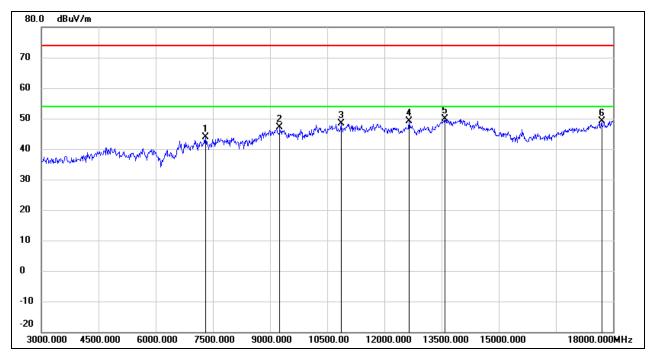
Test Mode:	802.11n HT20	Channel:	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7275.000	36.86	6.49	43.35	74.00	-30.65	peak
2	9195.000	36.28	10.56	46.84	74.00	-27.16	peak
3	10215.000	35.74	12.43	48.17	74.00	-25.83	peak
4	11730.000	33.34	17.22	50.56	74.00	-23.44	peak
5	13935.000	27.91	21.82	49.73	74.00	-24.27	peak
6	17955.000	24.85	25.42	50.27	74.00	-23.73	peak



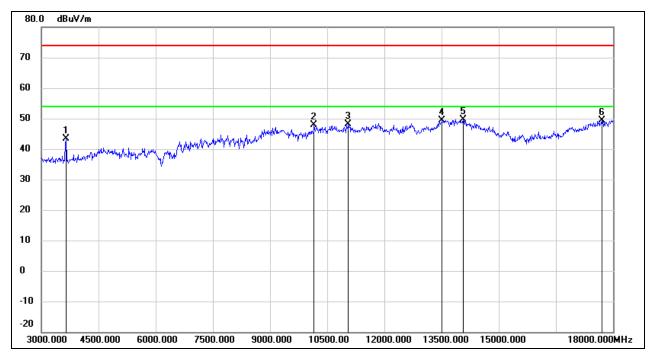
Test Mode:	802.11n HT40	Channel:	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7305.000	37.32	6.47	43.79	74.00	-30.21	peak
2	9255.000	36.46	10.59	47.05	74.00	-26.95	peak
3	10860.000	34.16	14.27	48.43	74.00	-25.57	peak
4	12645.000	31.09	17.92	49.01	74.00	-24.99	peak
5	13590.000	28.70	21.09	49.79	74.00	-24.21	peak
6	17700.000	25.20	23.91	49.11	74.00	-24.89	peak



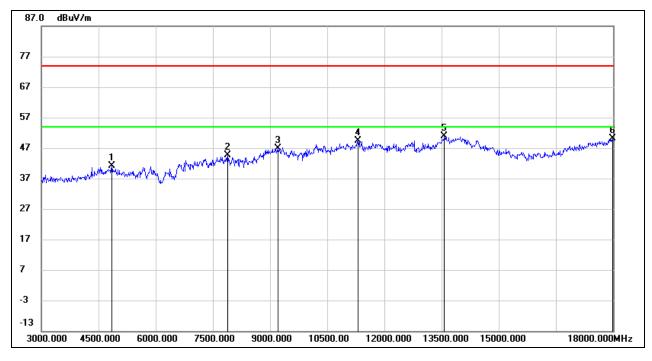
Test Mode:	802.11n HT40	Channel:	2422
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3645.000	47.91	-4.62	43.29	74.00	-30.71	peak
2	10155.000	35.59	12.32	47.91	74.00	-26.09	peak
3	11055.000	33.17	14.96	48.13	74.00	-25.87	peak
4	13515.000	28.51	20.93	49.44	74.00	-24.56	peak
5	14070.000	28.00	21.67	49.67	74.00	-24.33	peak
6	17700.000	25.46	23.91	49.37	74.00	-24.63	peak



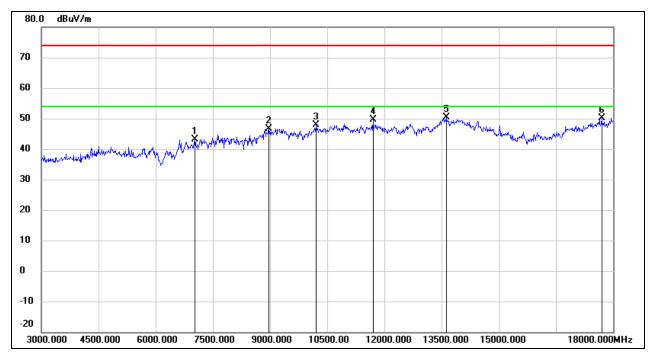
Test Mode:	802.11n HT40	Channel:	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	41.17	-0.15	41.02	74.00	-32.98	peak
2	7890.000	38.42	6.31	44.73	74.00	-29.27	peak
3	9210.000	36.21	10.57	46.78	74.00	-27.22	peak
4	11310.000	33.54	15.91	49.45	74.00	-24.55	peak
5	13575.000	29.72	21.06	50.78	74.00	-23.22	peak
6	17985.000	24.63	25.60	50.23	74.00	-23.77	peak



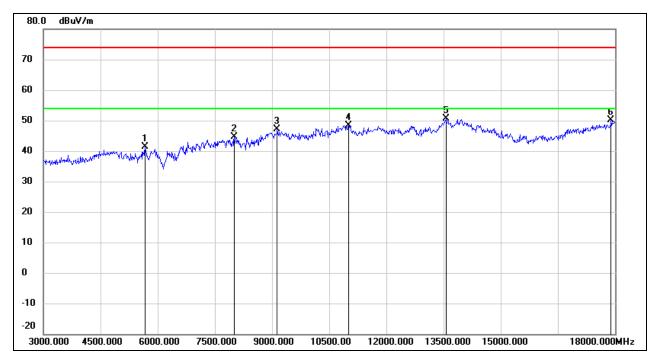
Test Mode:	802.11n HT40	Channel:	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.44	6.67	43.11	74.00	-30.89	peak
2	8970.000	36.28	10.26	46.54	74.00	-27.46	peak
3	10215.000	35.53	12.43	47.96	74.00	-26.04	peak
4	11700.000	32.40	17.14	49.54	74.00	-24.46	peak
5	13620.000	29.26	21.15	50.41	74.00	-23.59	peak
6	17700.000	26.21	23.91	50.12	74.00	-23.88	peak



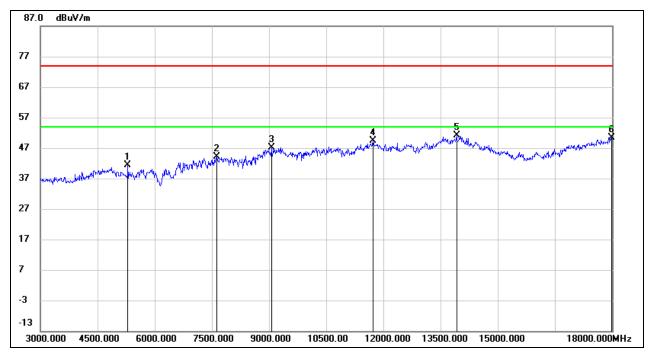
Test Mode:	802.11n HT40	Channel:	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	39.96	1.33	41.29	74.00	-32.71	peak
2	8010.000	38.19	6.32	44.51	74.00	-29.49	peak
3	9135.000	36.56	10.55	47.11	74.00	-26.89	peak
4	11010.000	33.62	14.81	48.43	74.00	-25.57	peak
5	13560.000	29.61	21.04	50.65	74.00	-23.35	peak
6	17895.000	24.98	25.07	50.05	74.00	-23.95	peak



Test Mode:	802.11n HT40	Channel:	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz

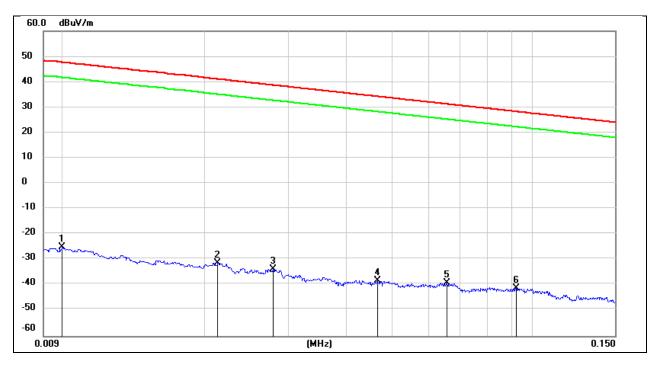


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5295.000	40.58	0.69	41.27	74.00	-32.73	peak
2	7635.000	37.92	6.33	44.25	74.00	-29.75	peak
3	9060.000	36.66	10.51	47.17	74.00	-26.83	peak
4	11730.000	32.04	17.22	49.26	74.00	-24.74	peak
5	13920.000	29.33	21.79	51.12	74.00	-22.88	peak
6	17985.000	24.87	25.60	50.47	74.00	-23.53	peak



8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

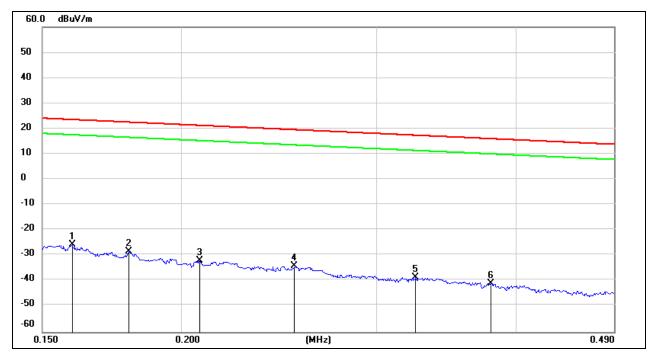
Test Mode:	802.11b	Channel:	2412
Polarity:	FACE ON	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.22	-101.40	-25.18	47.60	-76.68	-3.90	-72.78	peak
2	0.0212	70.04	-101.35	-31.31	41.07	-82.81	-10.43	-72.38	peak
3	0.0279	67.67	-101.38	-33.71	38.69	-85.21	-12.81	-72.40	peak
4	0.0466	63.17	-101.46	-38.29	34.23	-89.79	-17.27	-72.52	peak
5	0.0656	62.36	-101.55	-39.19	31.26	-90.69	-20.24	-70.45	peak
6	0.0922	60.51	-101.74	-41.23	28.31	-92.73	-23.19	-69.54	peak



Test Mode:	802.11b	Channel:	2412
Polarity:	FACE ON	Test Voltage:	AC 120V_60Hz

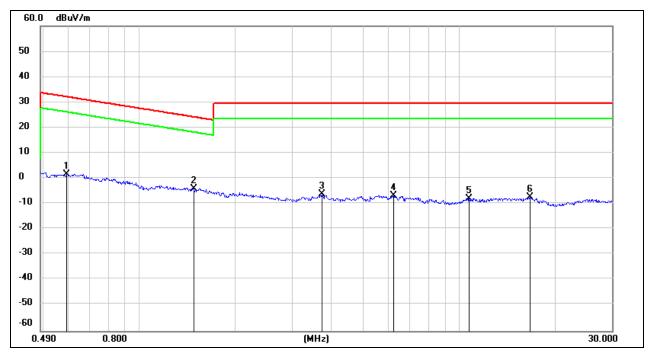


No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1595	75.86	-101.65	-25.79	23.55	-77.29	-27.95	-49.34	peak
2	0.1794	73.27	-101.68	-28.41	22.53	-79.91	-28.97	-50.94	peak
3	0.2078	69.74	-101.73	-31.99	21.25	-83.49	-30.25	-53.24	peak
4	0.2530	67.64	-101.80	-34.16	19.54	-85.66	-31.96	-53.70	peak
5	0.3251	63.21	-101.88	-38.67	17.36	-90.17	-34.14	-56.03	peak
6	0.3800	61.02	-101.94	-40.92	16.01	-92.42	-35.49	-56.93	peak

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Test Mode:	802.11b	Channel:	2412
Polarity:	FACE ON	Test Voltage:	AC 120V_60Hz



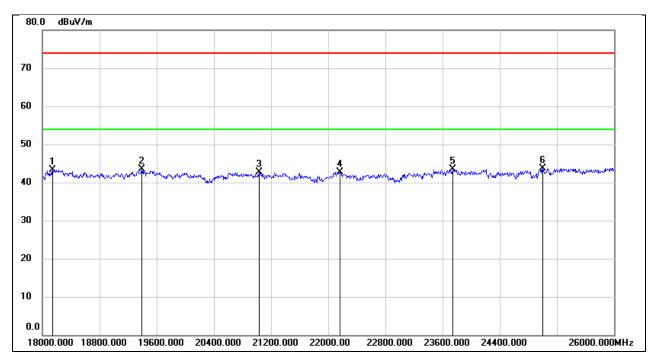
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5917	63.74	-62.08	1.66	32.16	-49.84	-19.34	-30.50	peak
2	1.4818	58.11	-62.05	-3.94	24.19	-55.44	-27.31	-28.13	peak
3	3.7100	55.20	-61.41	-6.21	29.54	-57.71	-21.96	-35.75	peak
4	6.2445	54.63	-61.32	-6.69	29.54	-58.19	-21.96	-36.23	peak
5	10.7299	52.98	-60.83	-7.85	29.54	-59.35	-21.96	-37.39	peak
6	16.6021	53.52	-60.96	-7.44	29.54	-58.94	-21.96	-36.98	peak

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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

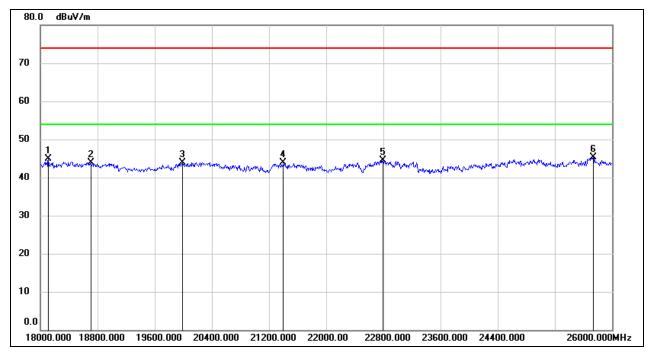
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18144.000	48.77	-5.48	43.29	74.00	-30.71	peak
2	19392.000	49.12	-5.57	43.55	74.00	-30.45	peak
3	21032.000	47.65	-4.87	42.78	74.00	-31.22	peak
4	22160.000	47.08	-4.31	42.77	74.00	-31.23	peak
5	23744.000	46.65	-3.20	43.45	74.00	-30.55	peak
6	25000.000	45.86	-2.10	43.76	74.00	-30.24	peak



Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz

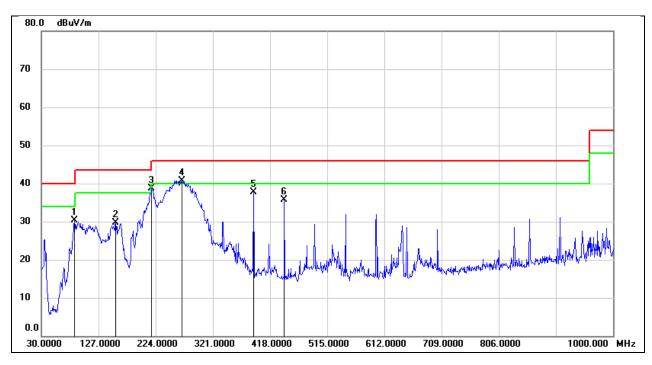


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18112.000	50.46	-5.47	44.99	74.00	-29.01	peak
2	18712.000	49.40	-5.40	44.00	74.00	-30.00	peak
3	19992.000	49.35	-5.45	43.90	74.00	-30.10	peak
4	21400.000	48.54	-4.72	43.82	74.00	-30.18	peak
5	22792.000	48.11	-3.65	44.46	74.00	-29.54	peak
6	25736.000	45.94	-0.68	45.26	74.00	-28.74	peak



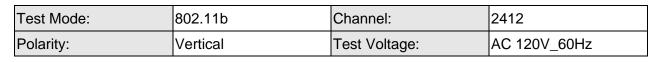
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

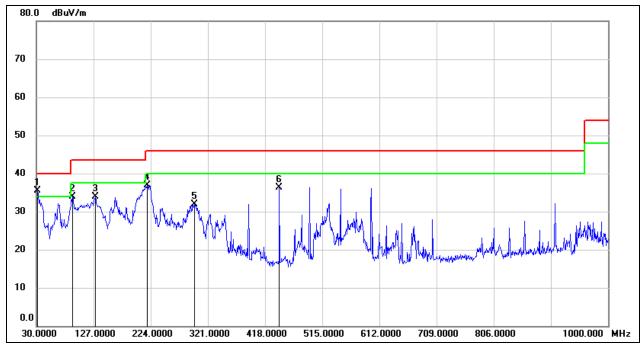
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	86.2600	52.18	-21.95	30.23	40.00	-9.77	QP
2	156.1000	47.51	-17.88	29.63	43.50	-13.87	QP
3	217.2100	56.10	-17.36	38.74	46.00	-7.26	QP
4	268.6200	58.35	-17.61	40.74	46.00	-5.26	QP
5	389.8700	50.68	-12.90	37.78	46.00	-8.22	QP
6	442.2500	47.64	-11.94	35.70	46.00	-10.30	QP







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	53.96	-18.55	35.41	40.00	-4.59	QP
2	91.1100	55.92	-22.06	33.86	43.50	-9.64	QP
3	129.9100	53.27	-19.31	33.96	43.50	-9.54	QP
4	218.1800	54.23	-17.42	36.81	46.00	-9.19	QP
5	297.7200	47.28	-15.43	31.85	46.00	-14.15	QP
6	442.2500	48.26	-11.94	36.32	46.00	-9.68	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

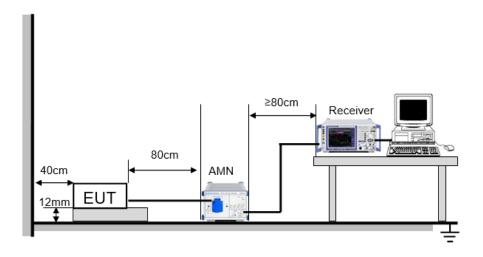
LIMITS

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 SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 12 mm 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 ENVIRONMENT

Temperature	25.2 ℃	Relative Humidity	57%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

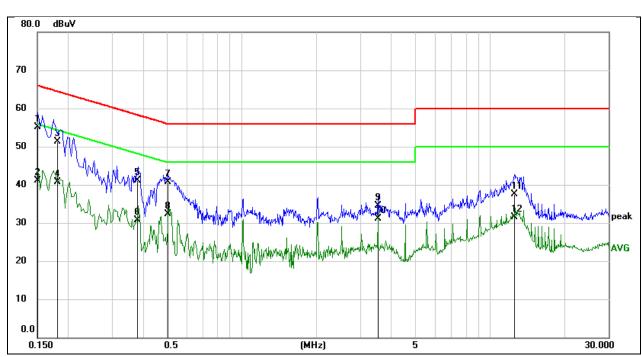
TEST DATE / ENGINEER

Test Date	May 26, 2023	Test By	Wite Chen
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TEST RESULTS

Test Mode:	802.11b	Channel:	2412
Line:	Line	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1507	45.53	9.49	55.02	65.96	-10.94	QP
2	0.1507	31.67	9.49	41.16	55.96	-14.80	AVG
3	0.1819	41.68	9.55	51.23	64.40	-13.17	QP
4	0.1819	31.23	9.55	40.78	54.40	-13.62	AVG
5	0.3784	31.52	9.53	41.05	58.31	-17.26	QP
6	0.3784	21.24	9.53	30.77	48.31	-17.54	AVG
7	0.5076	31.14	9.50	40.64	56.00	-15.36	QP
8	0.5076	22.83	9.50	32.33	46.00	-13.67	AVG
9	3.5433	24.99	9.61	34.60	56.00	-21.40	QP
10	3.5433	21.51	9.61	31.12	46.00	-14.88	AVG
11	12.5839	27.75	9.66	37.41	60.00	-22.59	QP
12	12.5839	21.78	9.66	31.44	50.00	-18.56	AVG

Note:

1. Result = Reading + Correct Factor.

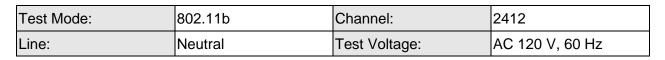
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

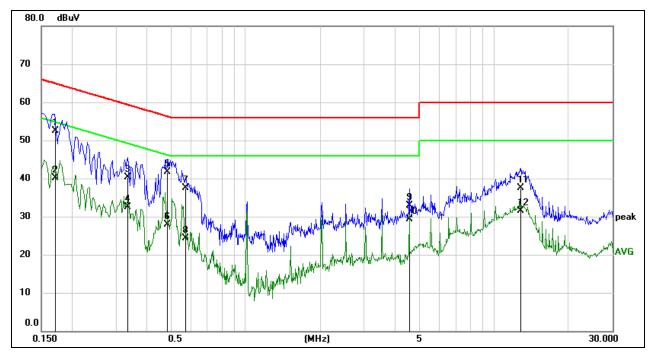
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

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	0.1703	42.94	9.53	52.47	64.95	-12.48	QP
2	0.1703	30.54	9.53	40.07	54.95	-14.88	AVG
3	0.3323	30.66	9.55	40.21	59.39	-19.18	QP
4	0.3323	23.01	9.55	32.56	49.39	-16.83	AVG
5	0.4850	32.27	9.50	41.77	56.25	-14.48	QP
6	0.4850	18.36	9.50	27.86	46.25	-18.39	AVG
7	0.5753	27.98	9.50	37.48	56.00	-18.52	QP
8	0.5753	14.82	9.50	24.32	46.00	-21.68	AVG
9	4.5553	23.27	9.61	32.88	56.00	-23.12	QP
10	4.5553	19.65	9.61	29.26	46.00	-16.74	AVG
11	12.8558	27.82	9.66	37.48	60.00	-22.52	QP
12	12.8558	21.86	9.66	31.52	50.00	-18.48	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.



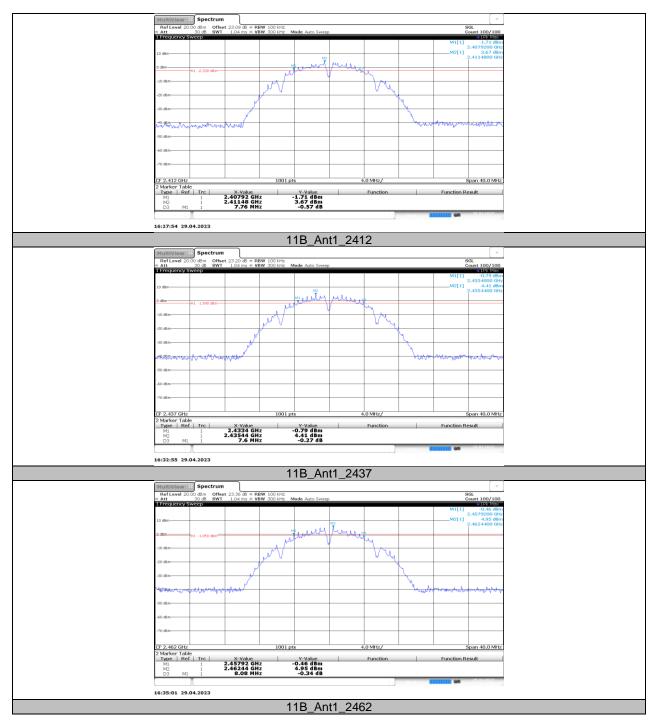
11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH 11.1.1. Test Result

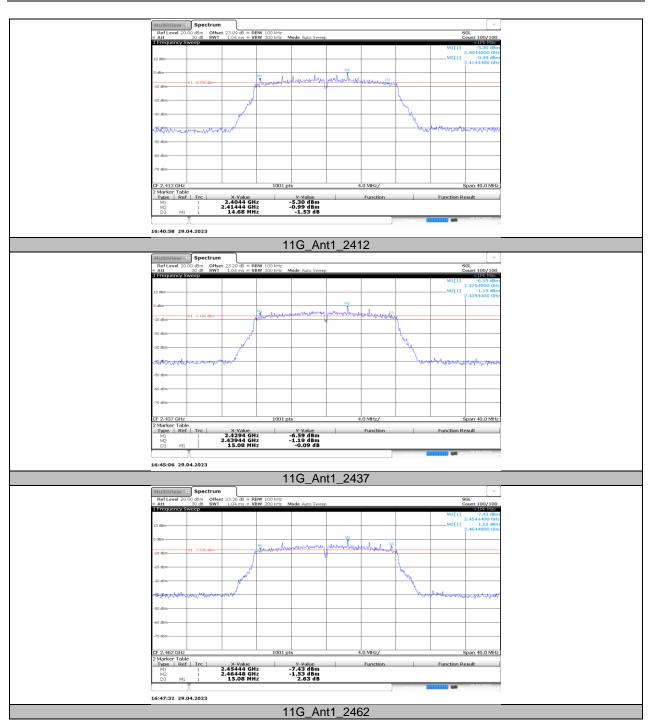
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	7.76	2407.92	2415.68	≥0.5	PASS
11B	Ant1	2437	7.60	2433.40	2441.00	≥0.5	PASS
		2462	8.08	2457.92	2466.00	≥0.5	PASS
		2412	14.68	2404.40	2419.08	≥0.5	PASS
11G	Ant1	2437	15.08	2429.40	2444.48	≥0.5	PASS
		2462	15.08	2454.44	2469.52	≥0.5	PASS
		2412	16.00	2404.44	2420.44	≥0.5	PASS
11N20SISO	Ant1	2437	16.08	2429.40	2445.48	≥0.5	PASS
		2462	16.32	2453.80	2470.12	≥0.5	PASS
		2422	35.12	2404.40	2439.52	≥0.5	PASS
11N40SISO	Ant1	2437	35.12	2419.40	2454.52	≥0.5	PASS
		2452	35.12	2434.40	2469.52	≥0.5	PASS



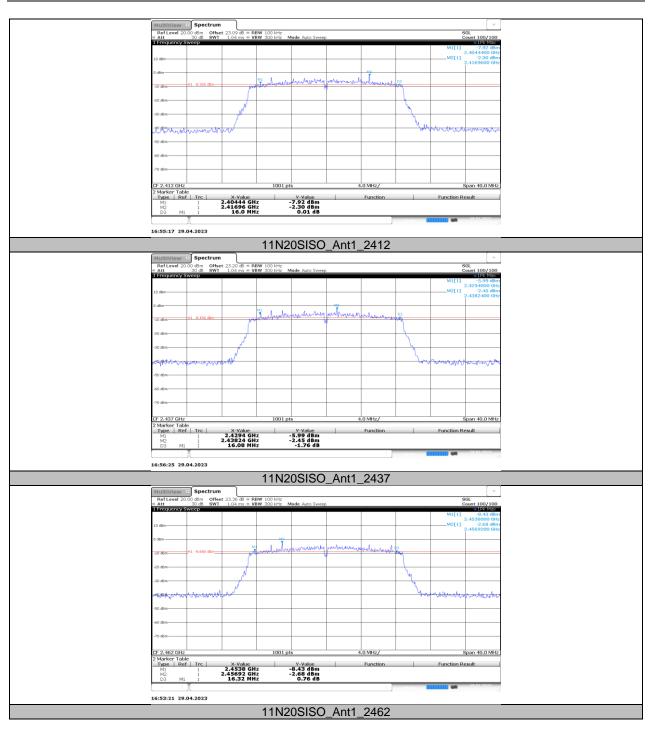
11.1.2. Test Graphs



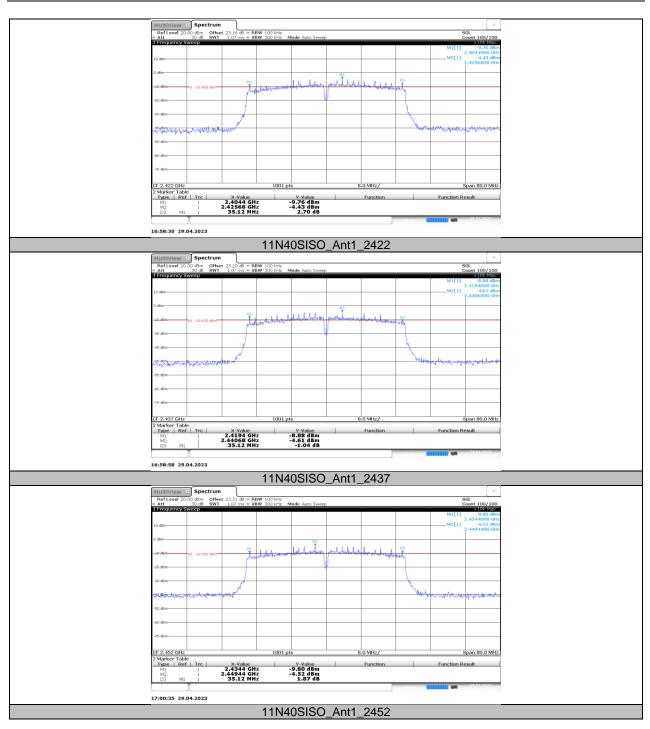












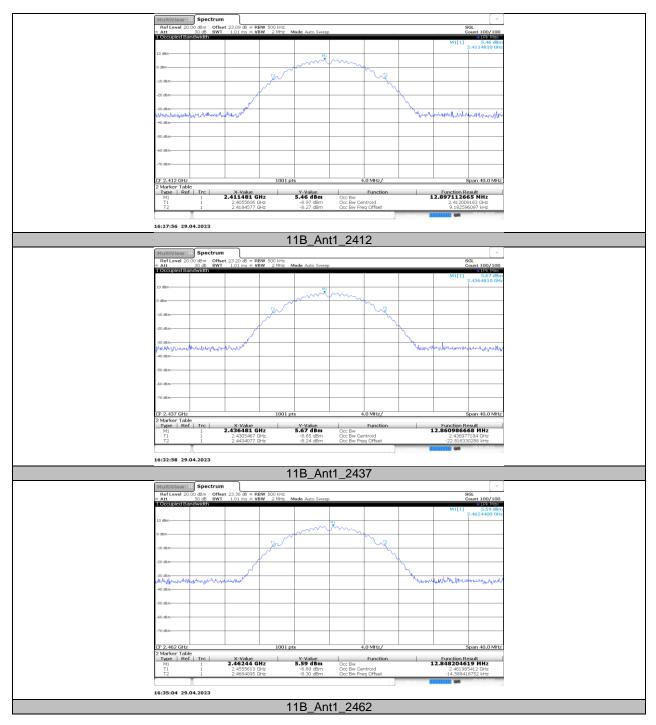


11.2.1.	Test	Result				
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant1	2412	12.897	2405.5606	2418.4577	PASS
11B		2437	12.861	2430.5467	2443.4077	PASS
		2462	12.848	2455.5613	2468.4095	PASS
	Ant1	2412	17.031	2403.4857	2420.5162	PASS
11G		2437	16.992	2428.5145	2445.5062	PASS
		2462	16.919	2453.4879	2470.4072	PASS
	Ant1	2412	17.96	2403.0267	2420.9864	PASS
11N20SISO		2437	17.884	2428.0474	2445.9318	PASS
		2462	17.907	2453.0335	2470.9405	PASS
11N40SISO	Ant1	2422	36.158	2403.9802	2440.1383	PASS
		2437	36.362	2418.8370	2455.1990	PASS
		2452	36.301	2433.8954	2470.1965	PASS

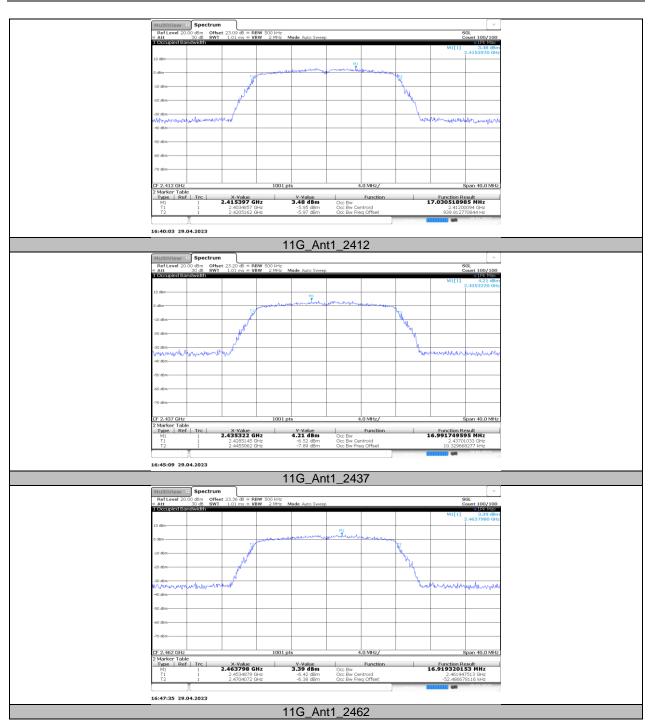
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 11.2.1. Test Result



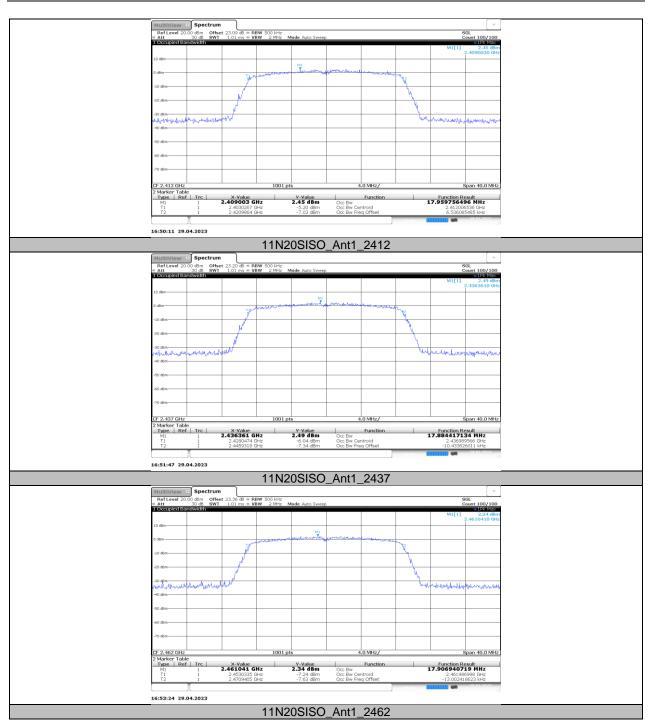
11.2.2. Test Graphs



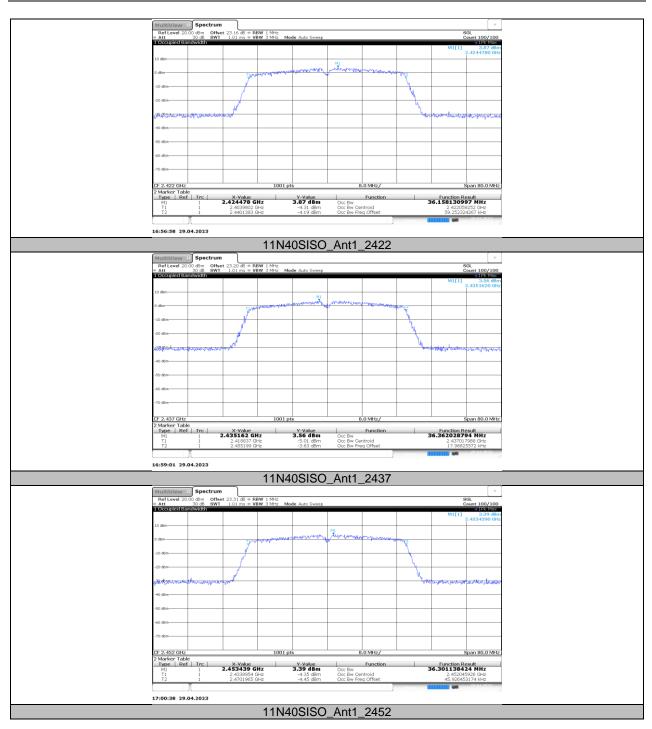














11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER 11.3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	12.72	≤30.00	PASS
11B	Ant1	2437	12.87	≤30.00	PASS
		2462	12.78	≤30.00	PASS
	Ant1	2412	9.25	≤30.00	PASS
11G		2437	9.31	≤30.00	PASS
		2462	9.25	≤30.00	PASS
	Ant1	2412	8.66	≤30.00	PASS
11N20SISO		2437	8.67	≤30.00	PASS
		2462	8.63	≤30.00	PASS
11N40SISO	Ant1	2422	8.56	≤30.00	PASS
		2437	8.53	≤30.00	PASS
		2452	8.46	≤30.00	PASS

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.

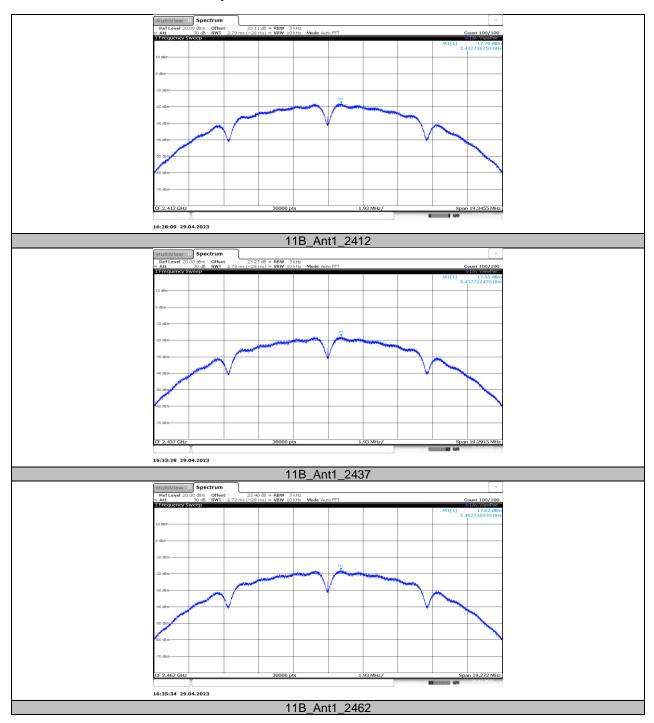


11.4.1.	lest H	lesult			
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-17.76	≤8.00	PASS
11B	Ant1	2437	-17.55	≤8.00	PASS
		2462	-17.62	≤8.00	PASS
	Ant1	2412	-23.97	≤8.00	PASS
11G		2437	-24.21	≤8.00	PASS
		2462	-21.88	≤8.00	PASS
		2412	-21.51	≤8.00	PASS
11N20SISO	Ant1	2437	-24.25	≤8.00	PASS
		2462	-21.86	≤8.00	PASS
	Ant1	2422	-20.99	≤8.00	PASS
11N40SISO		2437	-23.8	≤8.00	PASS
		2452	-23.37	≤8.00	PASS

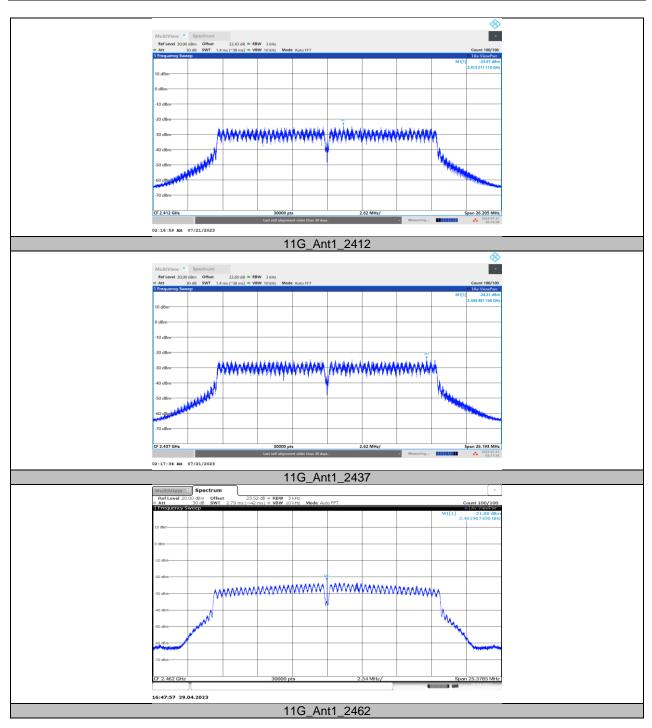
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY 11.4.1. Test Result



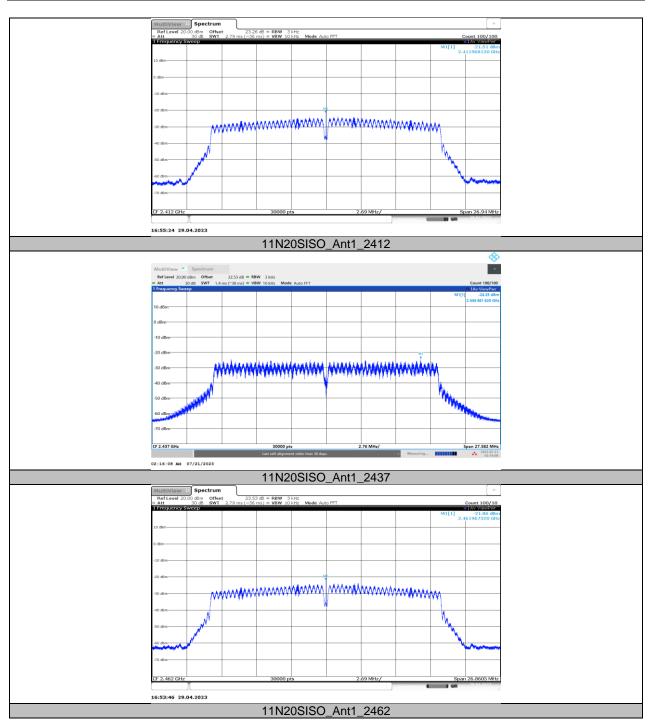
11.4.2. Test Graphs



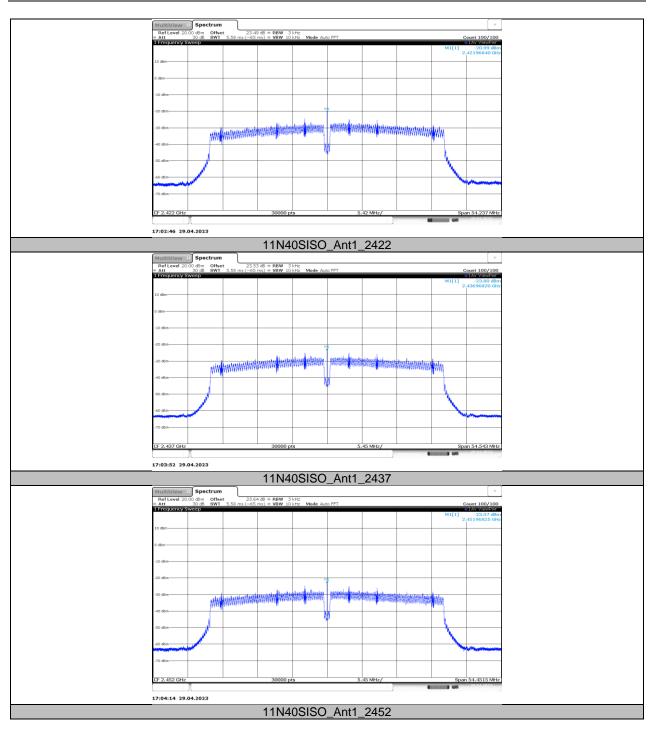












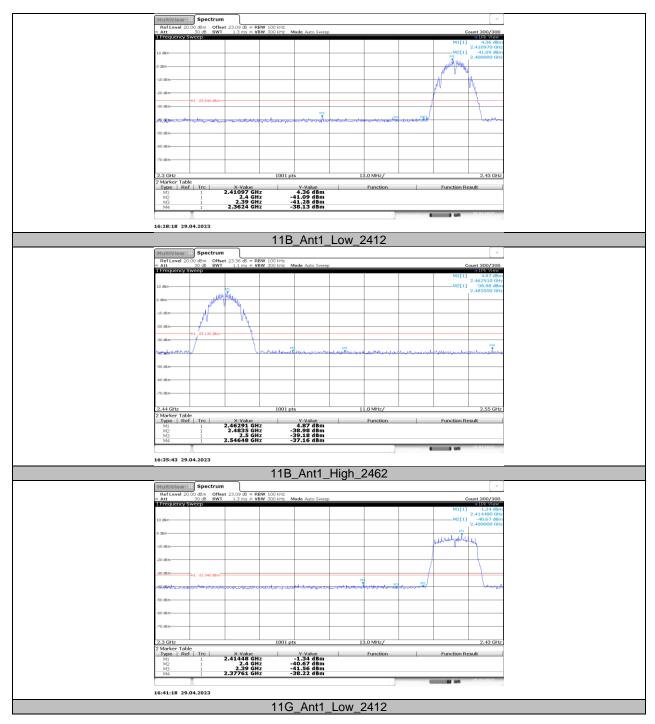


Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	A pt1	Low	2412	4.36	-38.13	≤-25.64	PASS
ПD	Ant1	High	2462	4.87	-37.16	≤-25.13	PASS
11G	Ant1	Low	2412	-1.34	-38.22	≤-31.34	PASS
TIG	Anti	High	2462	-1.03	-37.25	≤-31.03	PASS
11N20SISO A	Ant1	Low	2412	-1.77	-38.28	≤-31.77	PASS
		High	2462	-1.55	-37.37	≤-31.55	PASS
11N40SISO	Ant1	Low	2422	-4.60	-37.82	≤-34.6	PASS
		High	2452	-4.34	-37.07	≤-34.34	PASS

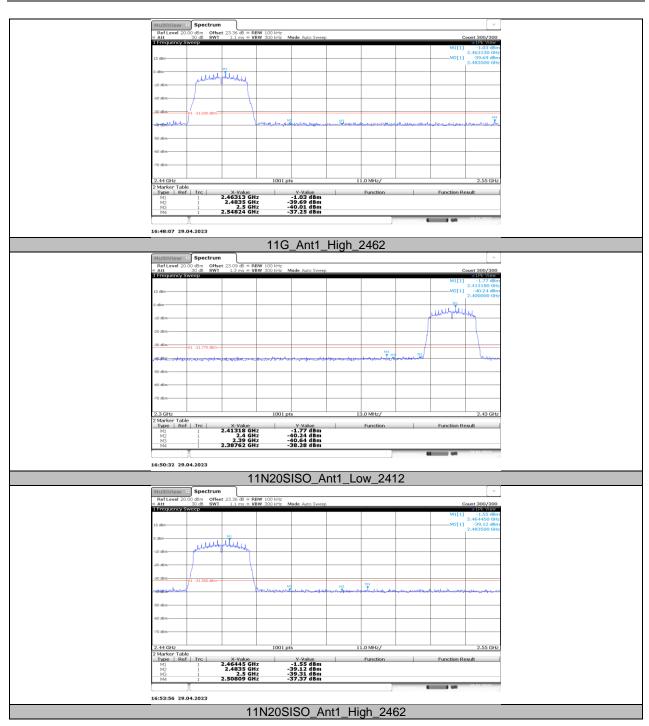
11.5. APPENDIX E: BAND EDGE MEASUREMENTS 11.5.1. **Test Result**



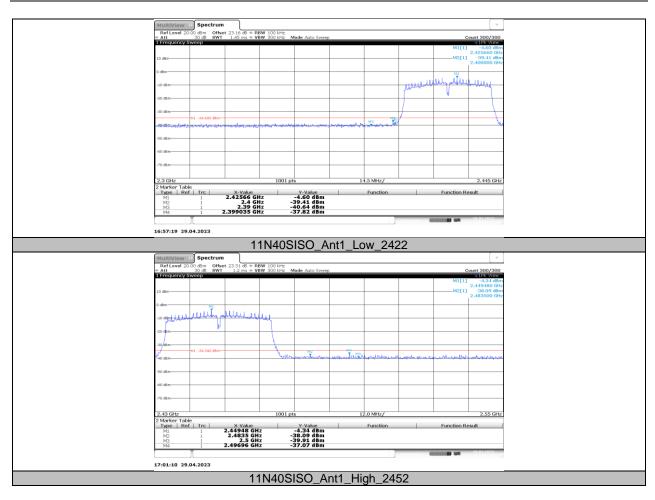
11.5.2. Test Graphs











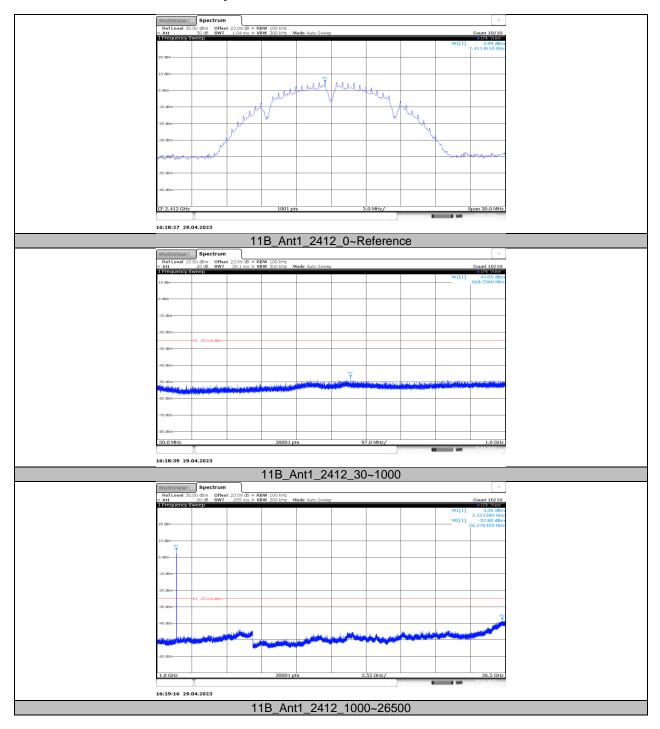


11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION 11.6.1. Test Result

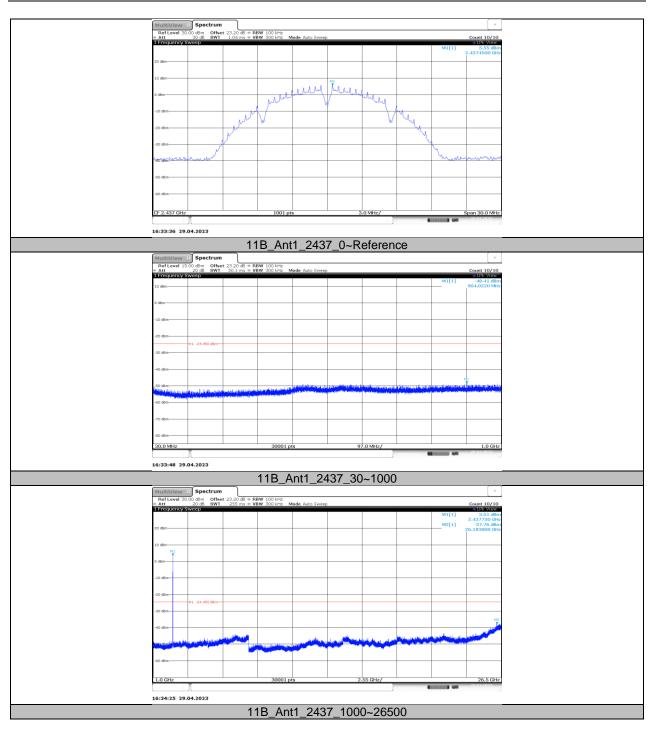
Test Mode	Antenna	Channel	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	4.99		PASS
		2412	30~1000	-47.05	≤-25.01	PASS
			1000~26500	-37.8	≤-25.01	PASS
			Reference	5.55		PASS
11B	Ant1	2437	30~1000	-48.41	≤-24.45	PASS
			1000~26500	-37.76	≤-24.45	PASS
			Reference	5.31		PASS
		2462	30~1000	-47.88	≤-24.69	PASS
			1000~26500	-37.84	≤-24.69	PASS
			Reference	-0.87		PASS
		2412	30~1000	-48.25	≤-30.87	PASS
			1000~26500	-36.93	≤-30.87	PASS
			Reference	-0.78		PASS
11G	Ant1	2437	30~1000	-48.3	≤-30.78	PASS
			1000~26500	-36.99	≤-30.78	PASS
			Reference	-0.84		PASS
		2462	30~1000	-47.91	≤-30.84	PASS
			1000~26500	-37.73	≤-30.84	PASS
		2412	Reference	-1.49		PASS
	Ant1		30~1000	-48.68	≤-31.49	PASS
			1000~26500	-37.68	≤-31.49	PASS
		2437	Reference	-1.24		PASS
11N20SISO			30~1000	-48.22	≤-31.24	PASS
			1000~26500	-36.8	≤-31.24	PASS
		2462	Reference	-1.28		PASS
			30~1000	-46.66	≤-31.28	PASS
			1000~26500	-37.11	≤-31.28	PASS
	Ant1	2422	Reference	-4.06		PASS
11N40SISO			30~1000	-48.26	≤-34.06	PASS
			1000~26500	-38.11	≤-34.06	PASS
		2437	Reference	-4.10		PASS
			30~1000	-48.47	≤-34.1	PASS
			1000~26500	-37.47	≤-34.1	PASS
		2452	Reference	-4.26		PASS
			30~1000	-47.82	≤-34.26	PASS
			1000~26500	-36.38	≤-34.26	PASS



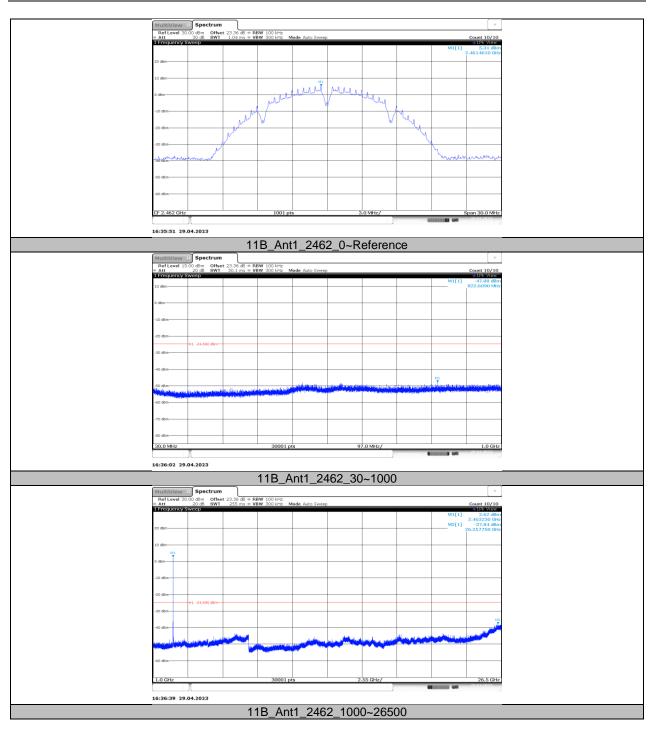
11.6.2. Test Graphs



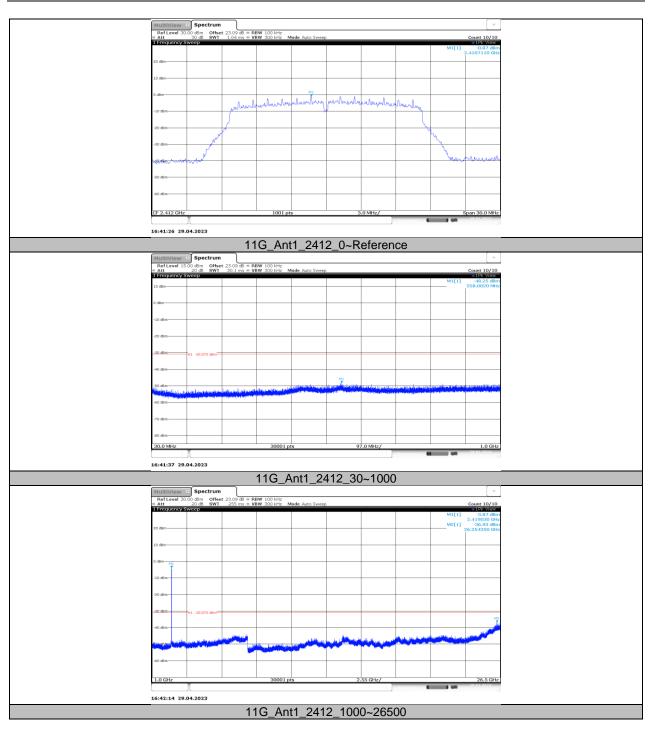




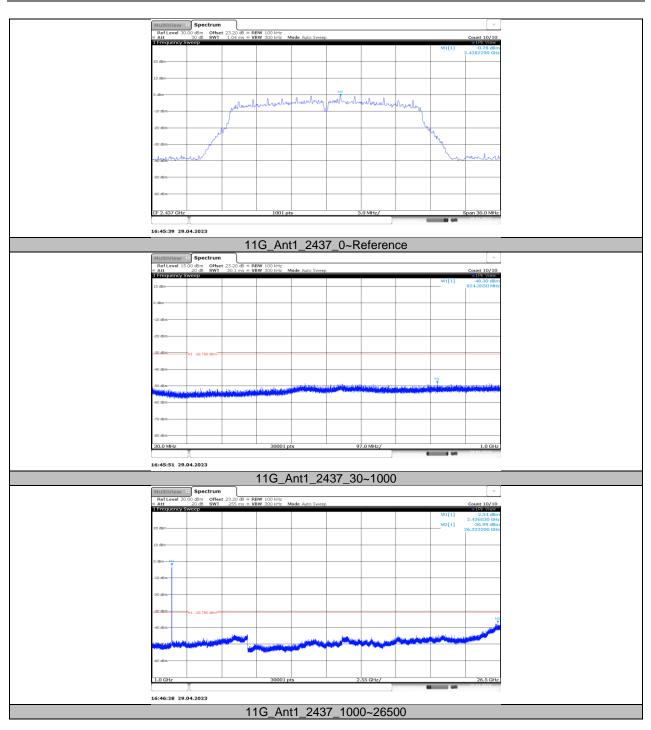




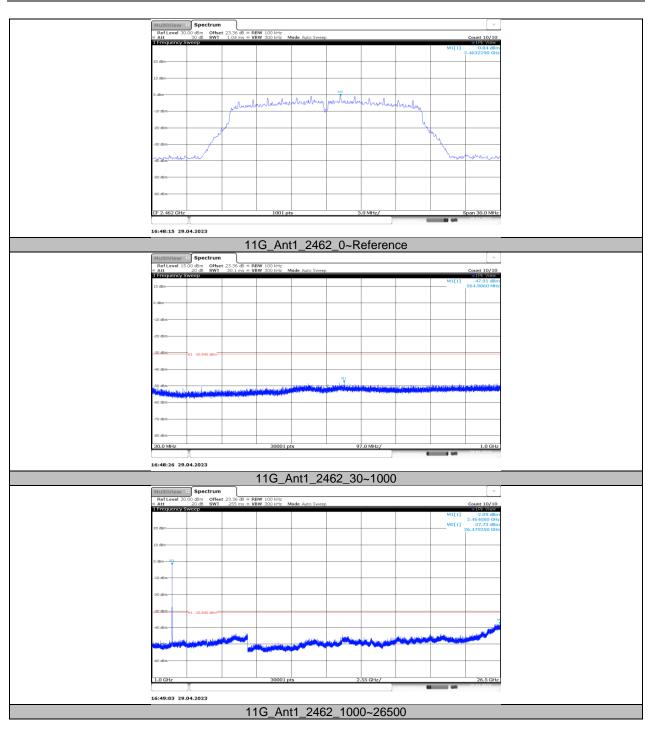




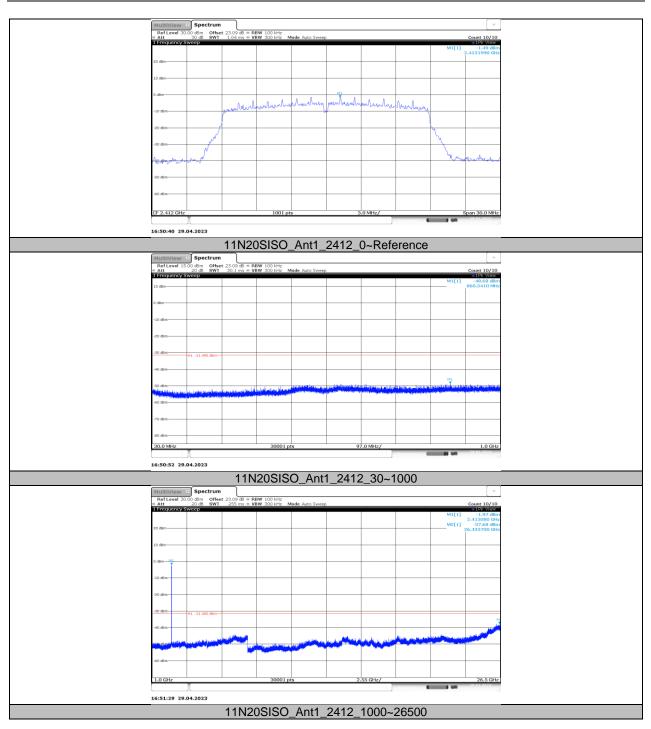




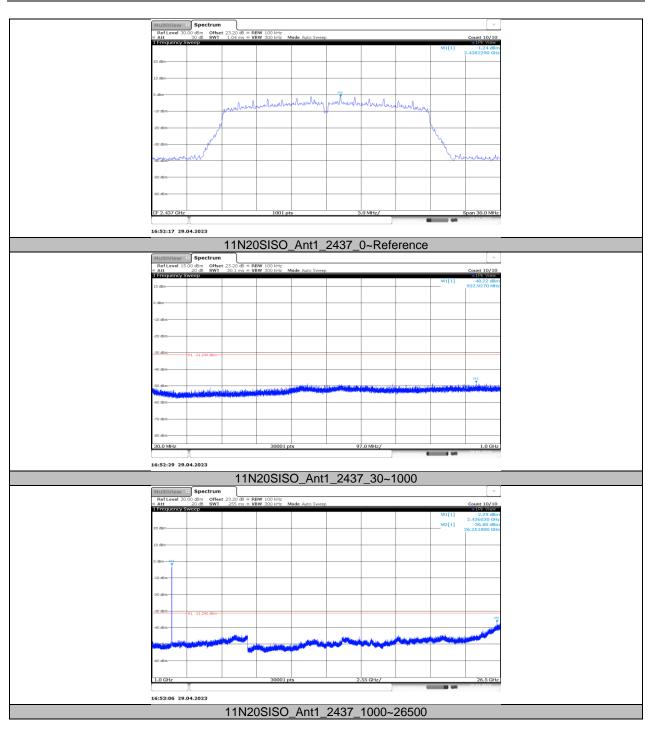




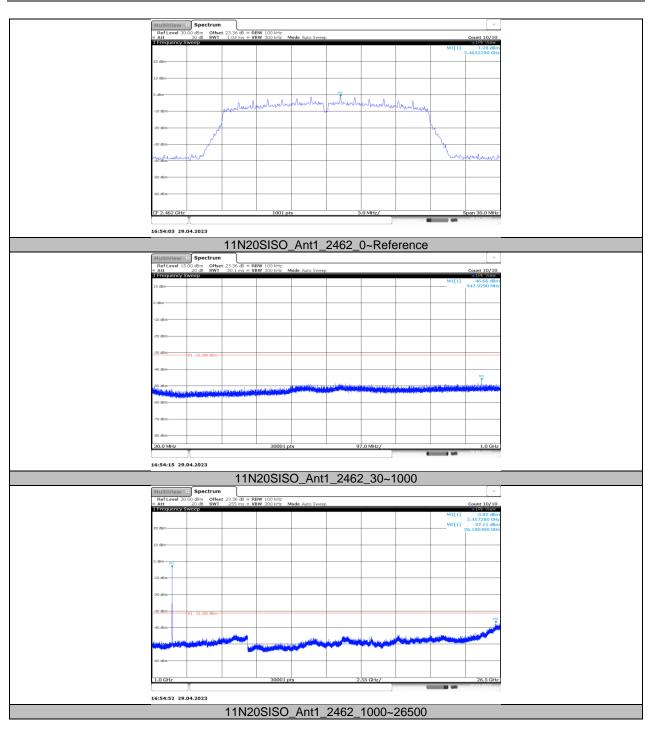




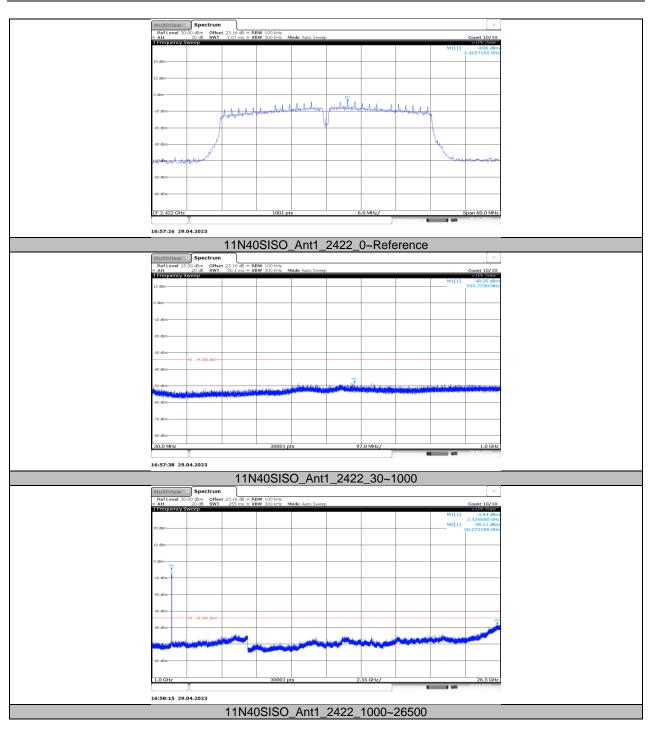




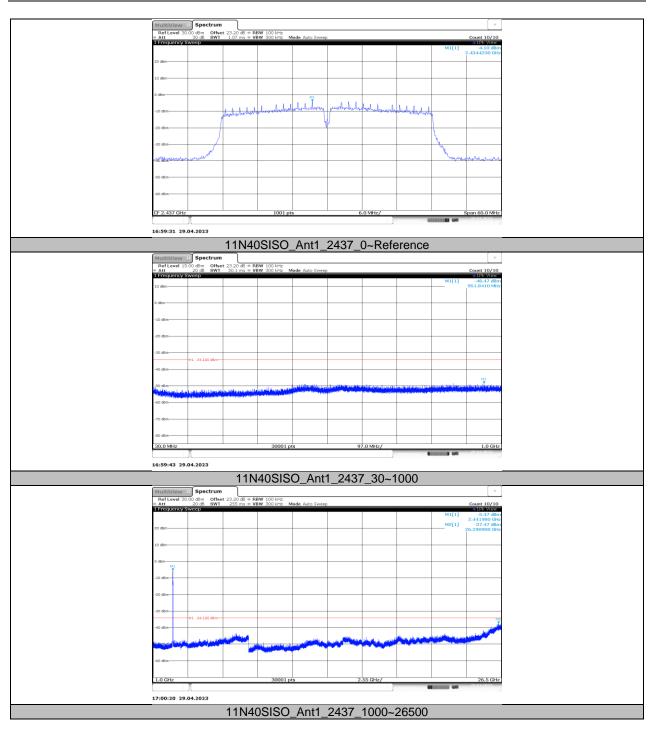




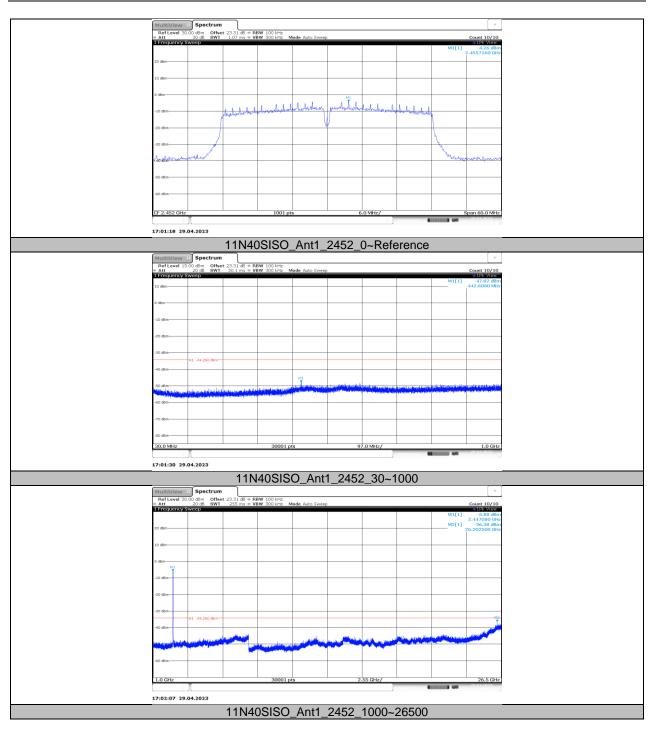














11.7. APPENDIX G: DUTY CYCLE 11.7.1. Test Result

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	8.36	8.4	0.9952	99.52	0.02	N/A	0.01
11g	1.39	1.43	0.9720	97.20	0.12	0.72	1
11n HT20	1.29	1.34	0.9627	96.27	0.17	0.78	1
11n HT40	0.64	0.69	0.9275	92.75	0.33	1.56	2

Note:

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

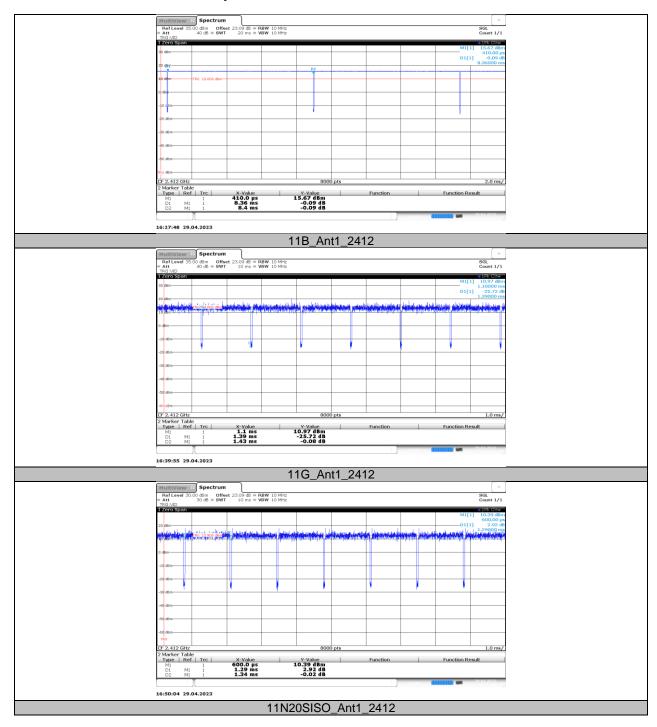
Where: x is Duty Cycle (Linear)

Where: T is On Time

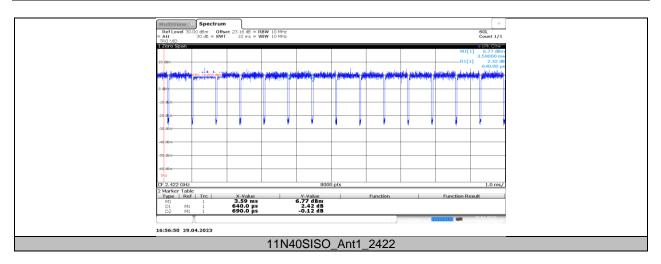
If that calculated VBW is not available on the analyzer then the next higher value should be used. If the EUT is configured to transmit with duty cycle \geq 98%, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.



11.7.2. Test Graphs







END OF REPORT