

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Security Camera

MODEL NUMBER: VMC3070

REPORT NUMBER: 4791756482-1-RF-2

ISSUE DATE: May 28, 2025

FCC ID: 2APLE18300431

Prepared for

**Arlo Technologies, Inc.
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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 28, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	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	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> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Arlo Technologies, Inc.
Address: 5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA

Manufacturer Information

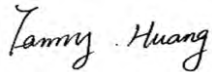
Company Name: Arlo Technologies, Inc.
Address: 5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA

EUT Information

EUT Name: Security Camera
Model: VMC3070
Sample Received Date: April 22, 2025
Sample Status: Normal
Sample ID: 8388274
Date of Tested: April 23, 2025 to May 28, 2025

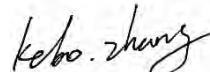
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

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2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

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

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, 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 (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 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 Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±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	Security Camera
Model	VMC3070

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
Normal Test Voltage:	AC 120 V, 60 Hz

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	/	/

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]	23.12	25.92
g	2412 ~ 2462	1-11[11]	25.29	28.09
n HT20	2412 ~ 2462	1-11[11]	25.63	28.43

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

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		CMD					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	-2	13	9	/		
802.11g	1	-5	16	-9			
802.11n HT20	1	-5	16	-11			

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

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

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PIFA Antenna	2.8

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.

Note:

1.BLE&WLAN 2.4G, BLE & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously.
(declared by client)

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	R303U5AG

I/O CABLES

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

ACCESSORIES

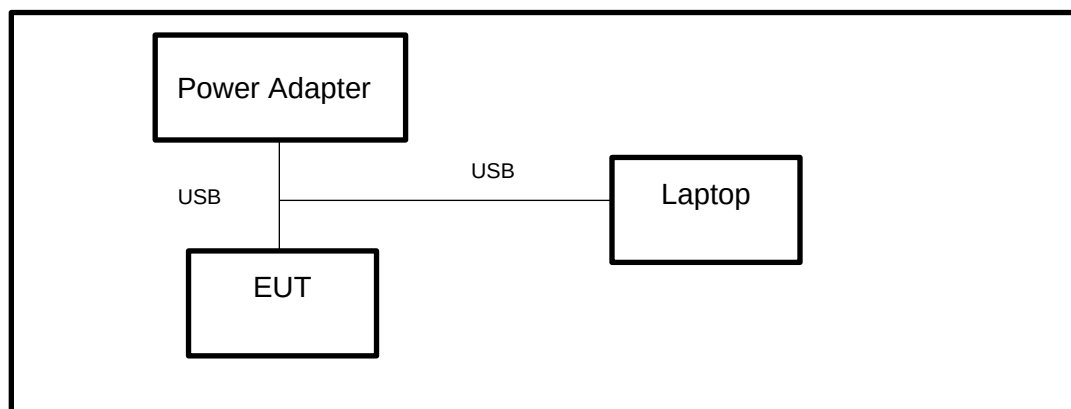
Item	Accessory	Brand Name	Model Name	Description
1	Power Adapter	/	A187-050100U-US1	Input: AC 100-240V, 50/60Hz, 200mA Output: DC 5V, 1A
2	Power Adapter	/	S005CAU0500100	Input: AC 100-240V, 50/60Hz, 200mA Output: DC 5V, 1A
3	POE	/	VMA3900	Input: 37-57 VDC Output: DC 5V, 2A

Note: All the Power Adapter and POE have been pre-tested, and only the worst data was recorded in the report.

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	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.27,2024	Dec.26,2025
Vector Signal Generator	R&S	SMBV100A	261637	Sep.28, 2024	Sep.27, 2025
Signal Generator	R&S	SMB100A	178553	Sep.28, 2024	Sep.27, 2025
Signal Analyzer	R&S	FSV40	101118	Sep.28, 2024	Sep.27, 2025
Software					
Description	Manufacturer		Name	Version	
For R&S TS 8997 Test System	Rohde & Schwarz		EMC 32	10.60.10	
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.13, 2024	Sep.12, 2025
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.28, 2024	Sep.27, 2025
DC power supply	Keysight	E3642A	MY55159130	Sep.28, 2024	Sep.27, 2025
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.28, 2024	Sep.27, 2025
Attenuator	Aglient	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.27,2024	Dec.26,2025
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

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

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130940	Dec.10, 2024	Dec.11, 2027
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated 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.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak and AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

For peak power:

Refer to ANSI C63.10-2013 clause 11.9.1.3.

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

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

For average power:

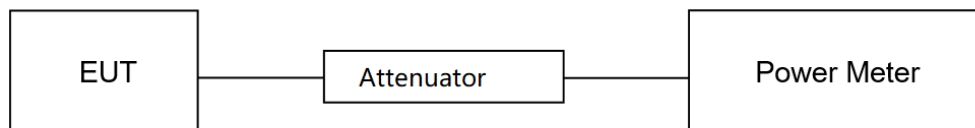
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	23.6°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 19, 2025	Test By	Bairong Liu
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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			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	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

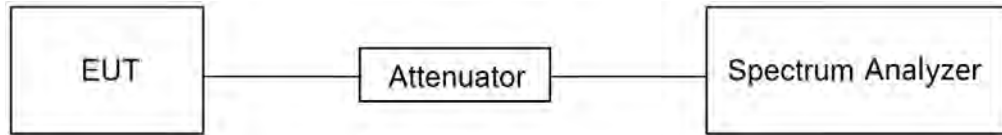
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ 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.

TEST SETUP**TEST ENVIRONMENT**

Temperature	24.2℃	Relative Humidity	61%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 8, 2025	Test By	Bairong Liu
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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			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	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.

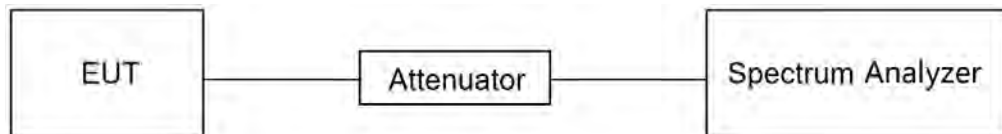
Connect the EUT to the spectrum analyzer and use the following settings:

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	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{OBW bandwidth}$
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	23.6°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 19, 2025	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

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	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 analyzer and use the following settings for reference level measurement:

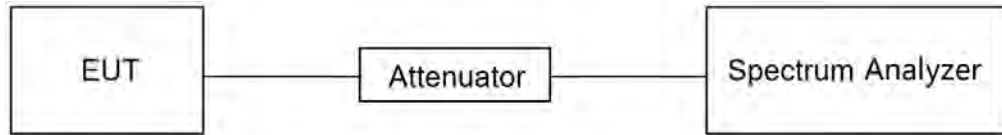
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

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

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
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.

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.6℃	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 19, 2025	Test By	Bairong Liu
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TEST RESULTS

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

7.5. DUTY CYCLE

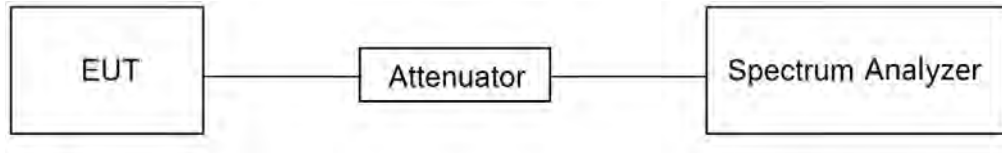
LIMITS

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	23.8°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 28, 2025	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

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

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 ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		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

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 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 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 and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

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.

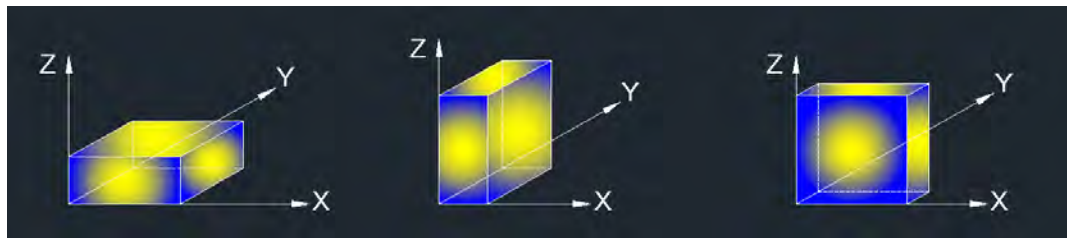
Above 1 GHz

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 (Y 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. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

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:

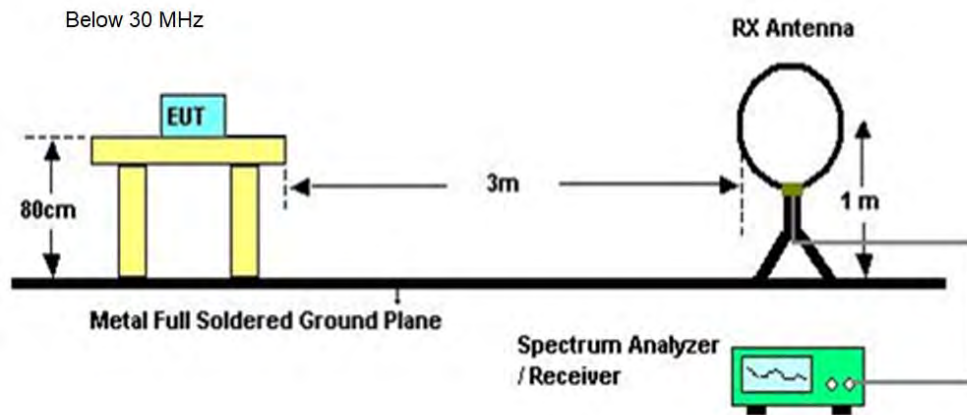
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please 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 ~ 26 GHz):

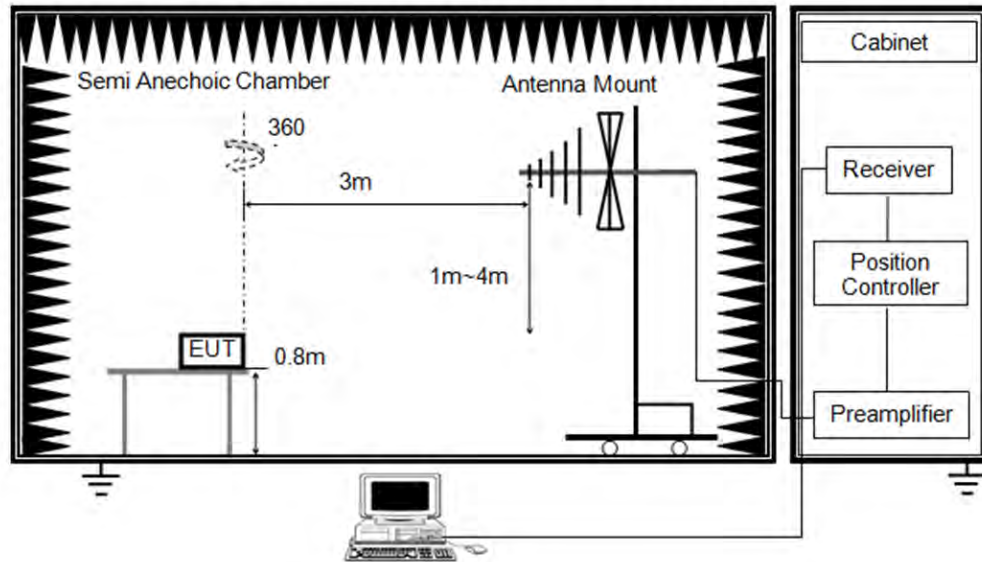
Note:

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

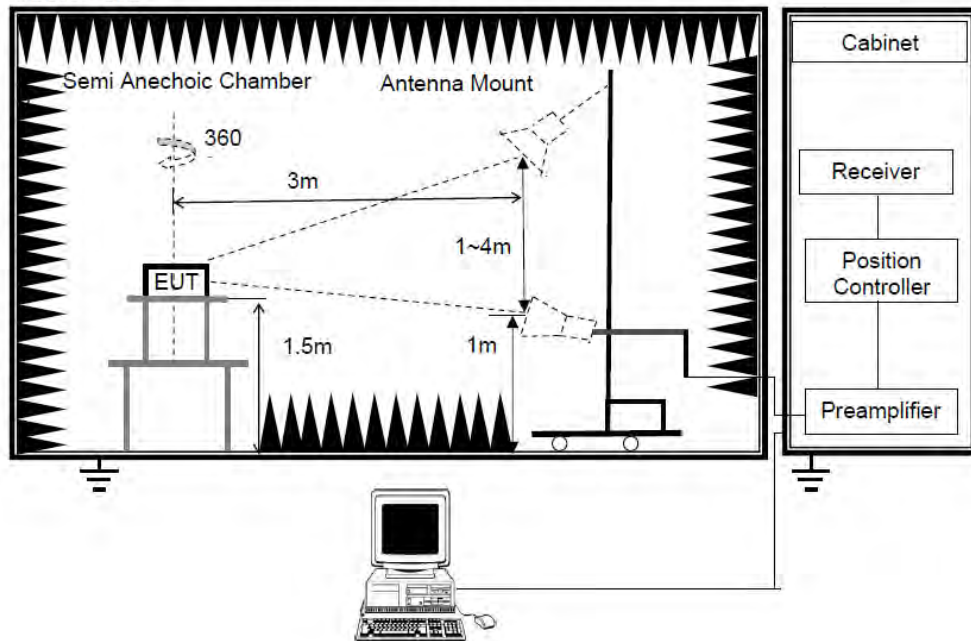
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	57.6%
Atmosphere Pressure	101kPa	Test Voltage	

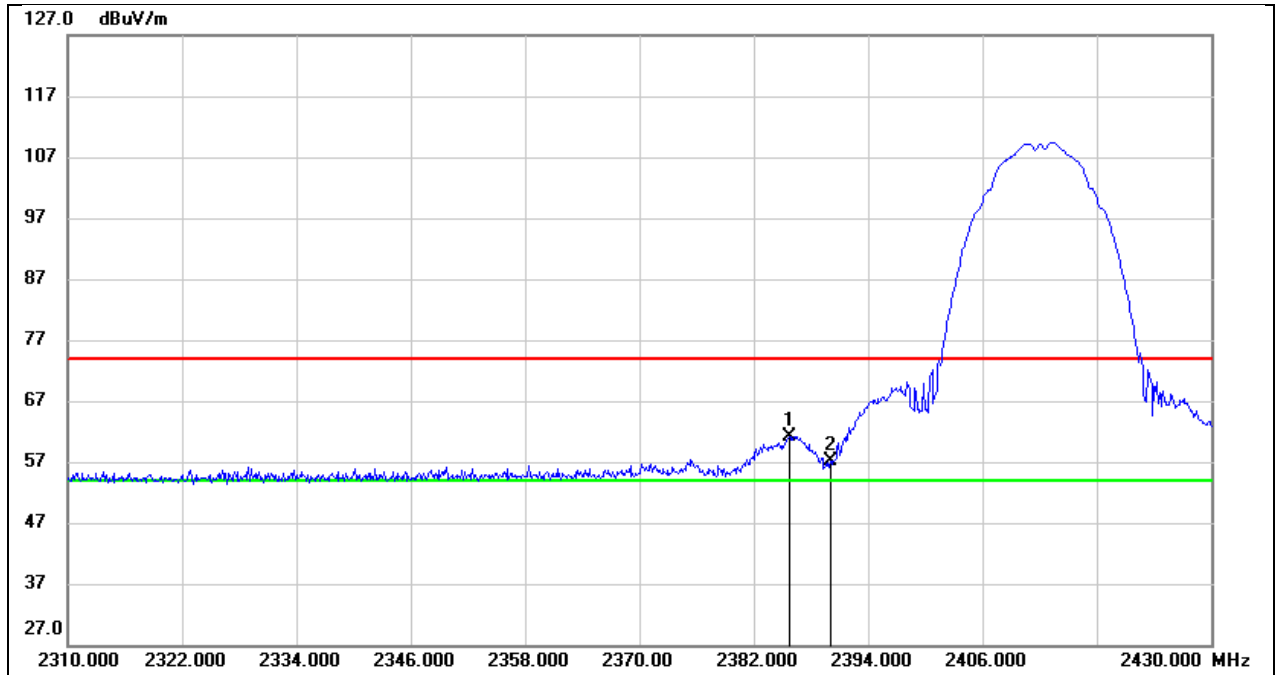
TEST DATE / ENGINEER

Test Date	May 16, 2025	Test By	Mason Wang
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TEST RESULTS

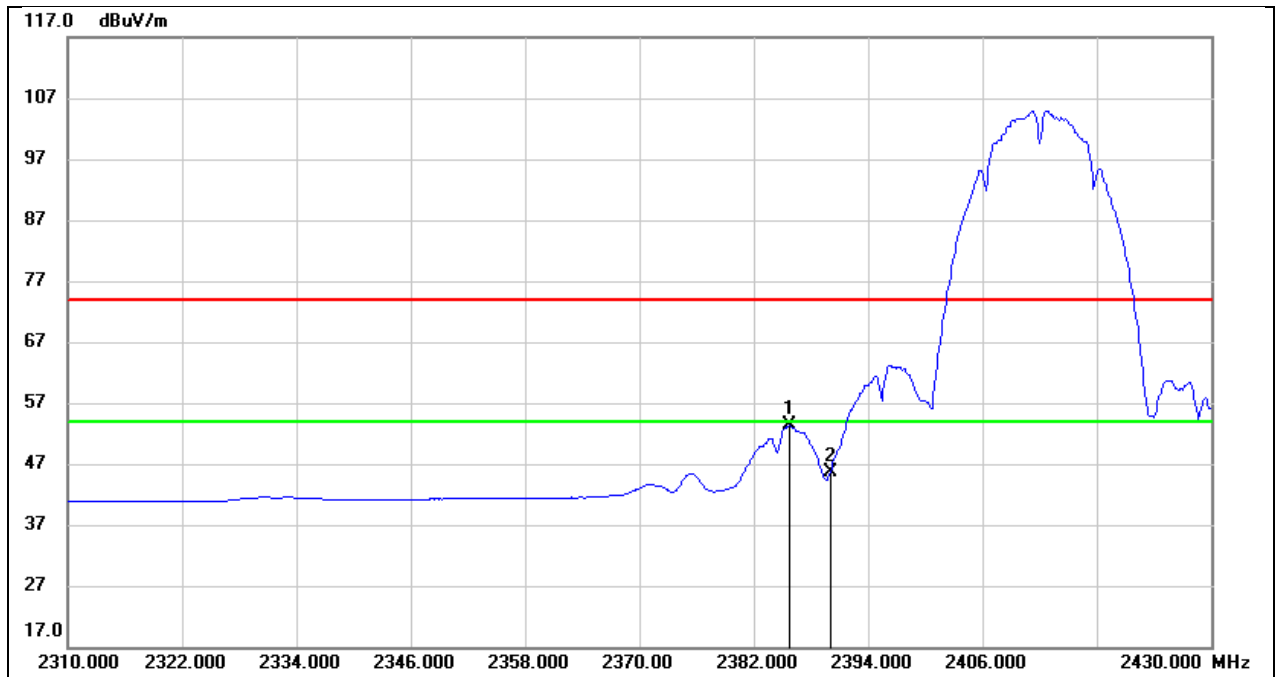
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



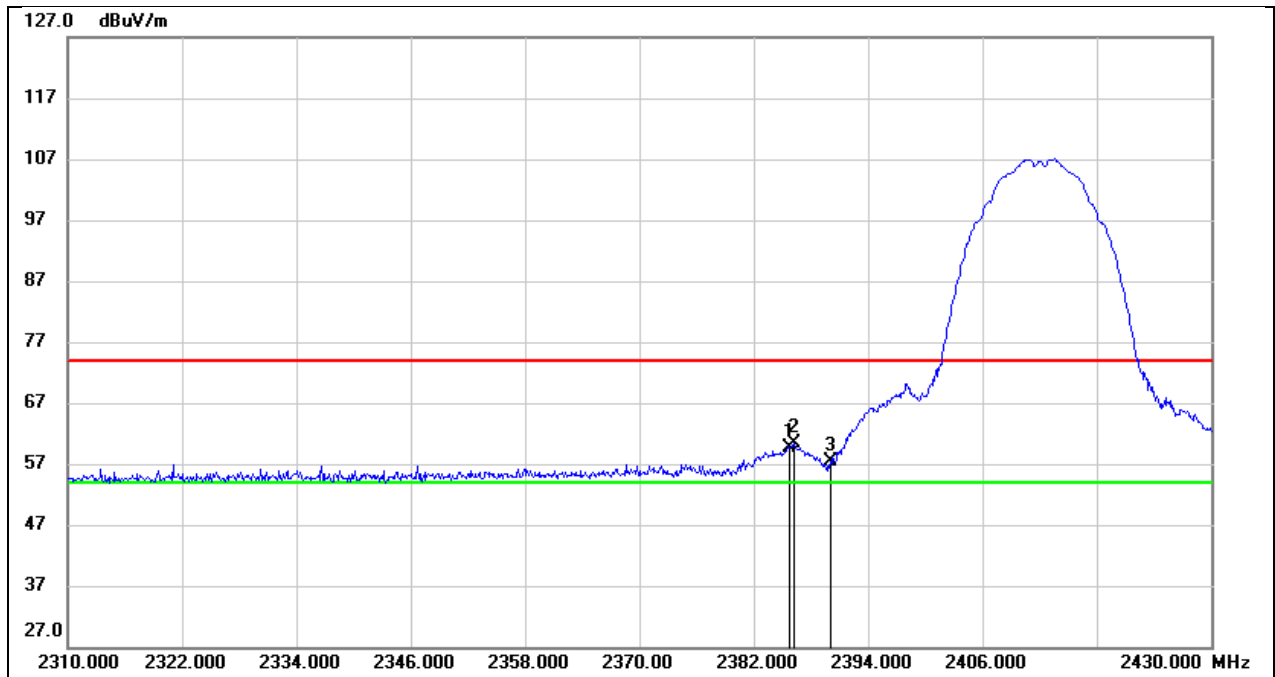
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	25.69	35.41	61.10	74.00	-12.90	peak
2	2390.000	21.82	35.43	57.25	74.00	-16.75	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



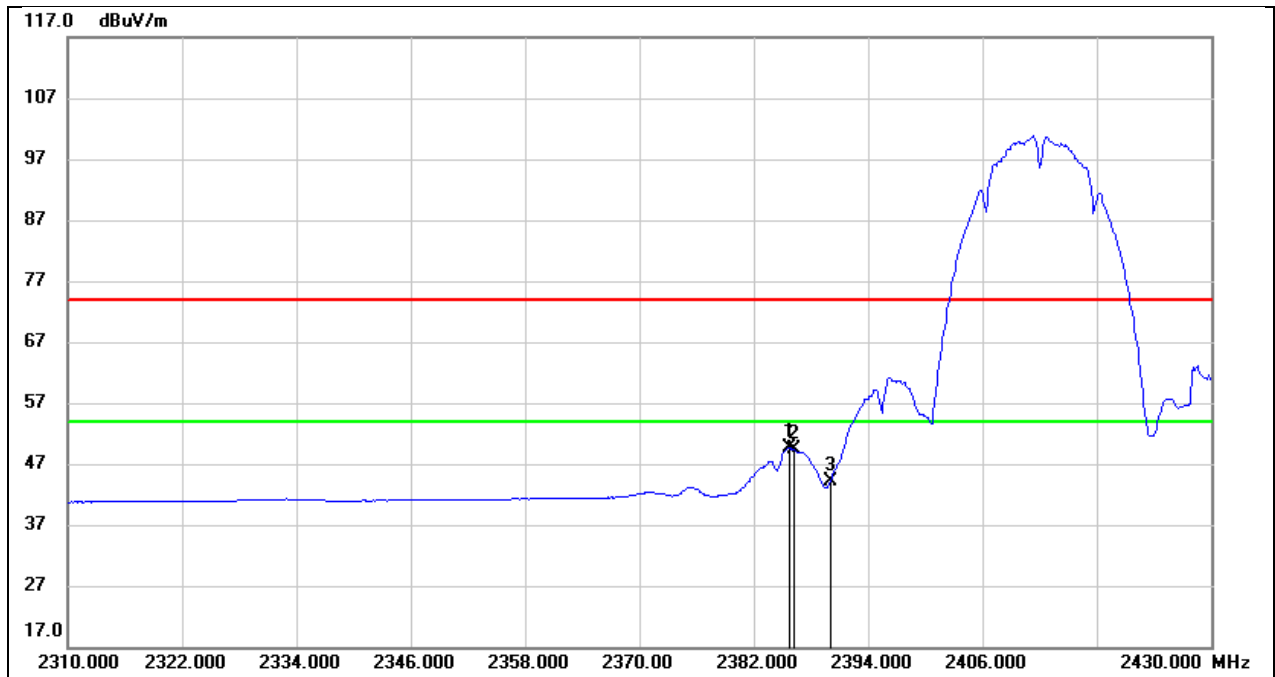
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	17.85	35.41	53.26	54.00	-0.74	AVG
2	2390.000	10.28	35.43	45.71	54.00	-8.29	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



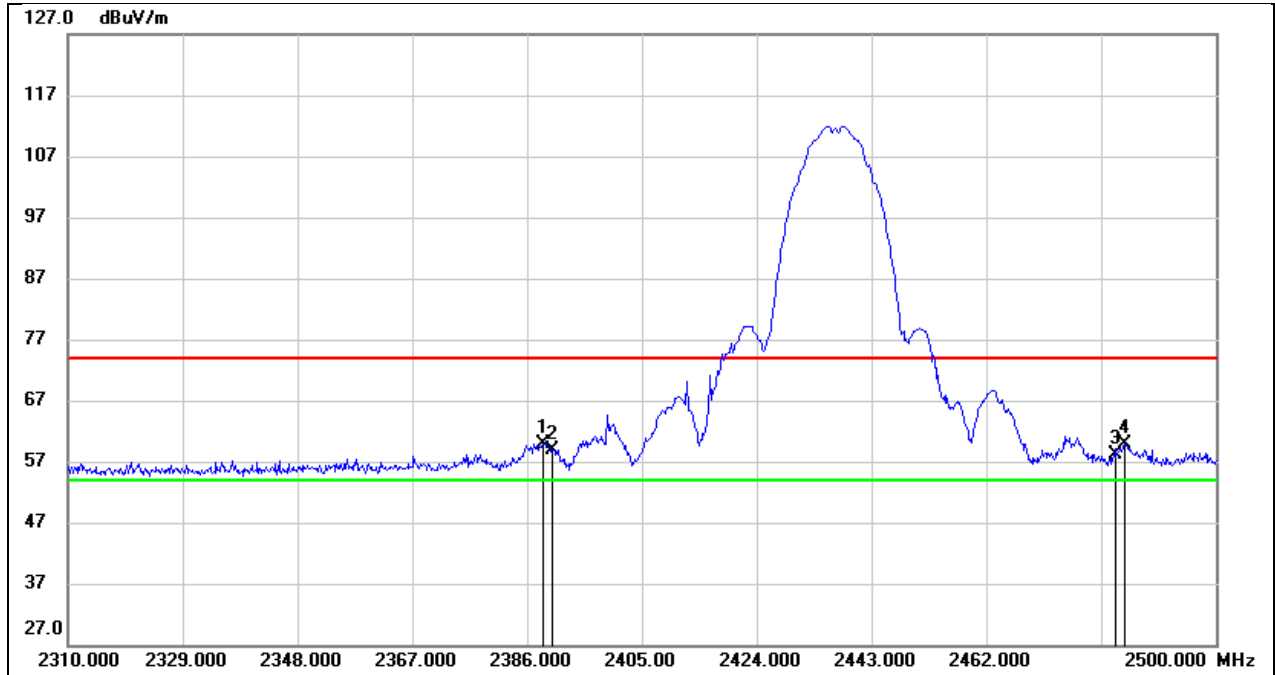
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	24.12	35.41	59.53	74.00	-14.47	peak
2	2386.200	24.87	35.41	60.28	74.00	-13.72	peak
3	2390.000	22.04	35.43	57.47	74.00	-16.53	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



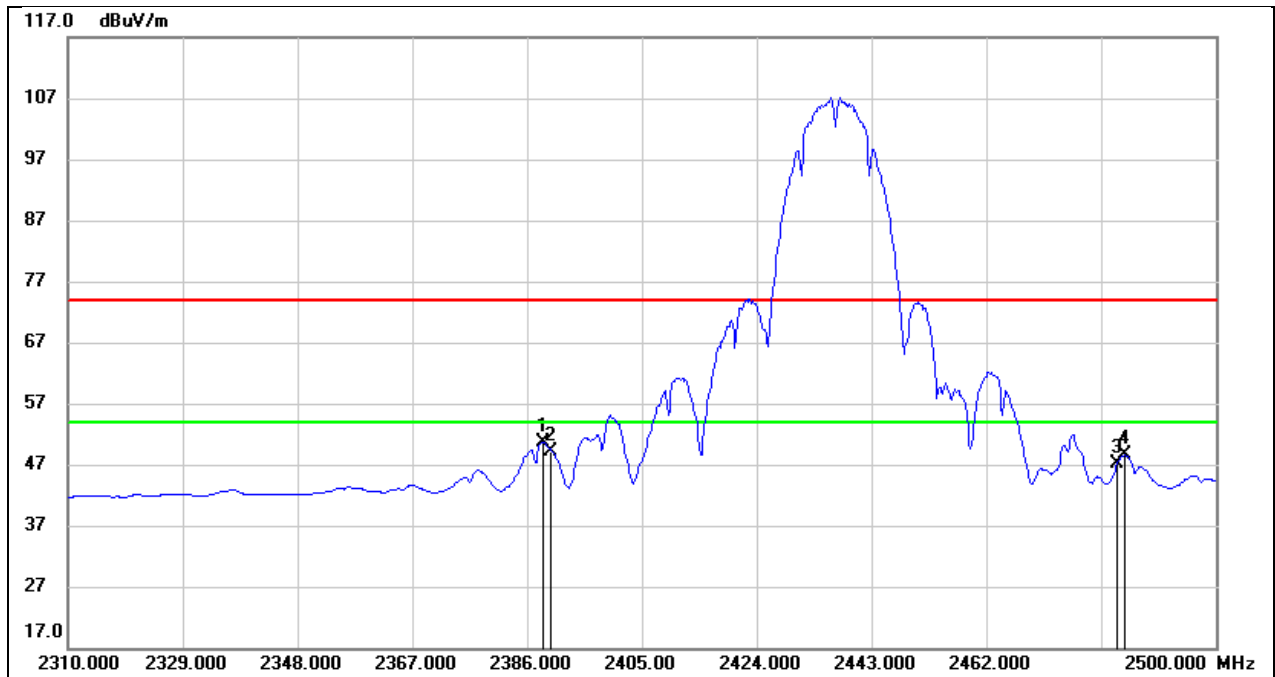
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	14.14	35.41	49.55	54.00	-4.45	AVG
2	2386.200	13.91	35.41	49.32	54.00	-4.68	AVG
3	2390.000	8.62	35.43	44.05	54.00	-9.95	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



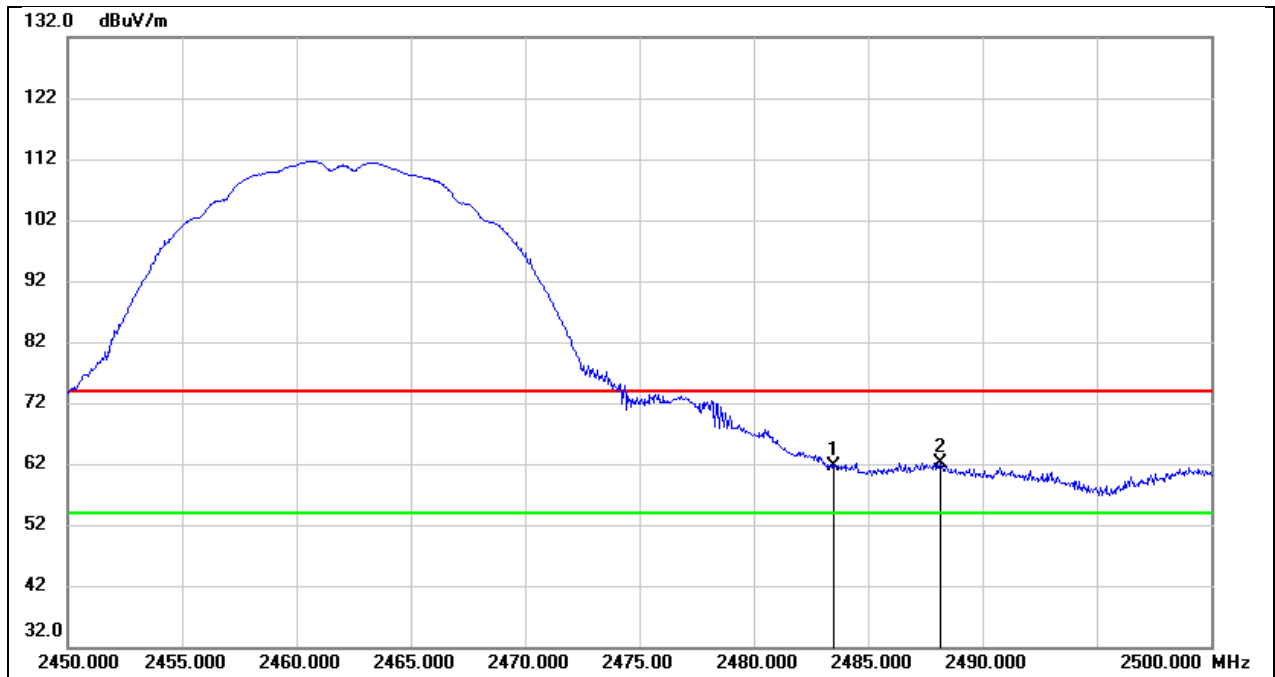
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.660	28.22	31.73	59.95	74.00	-14.05	peak
2	2390.000	27.05	31.73	58.78	74.00	-15.22	peak
3	2483.500	26.15	32.00	58.15	74.00	-15.85	peak
4	2484.800	27.81	32.00	59.81	74.00	-14.19	peak

Test Mode:	802.11b AV	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



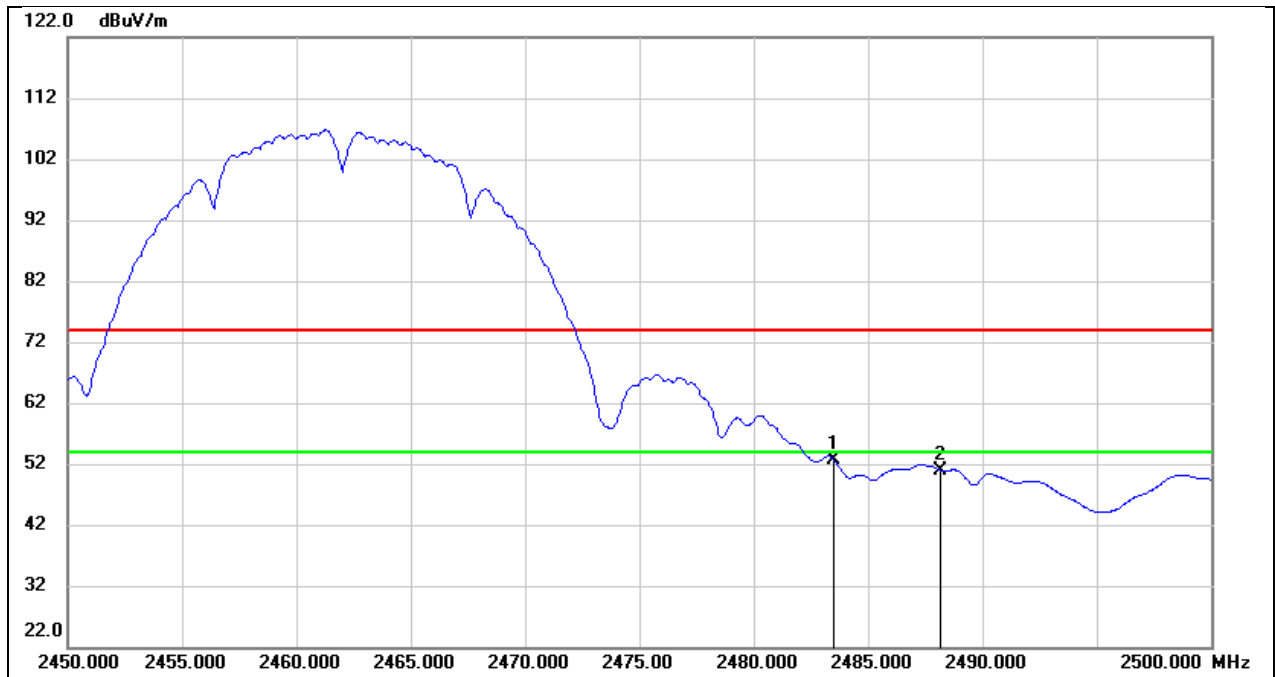
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.660	18.94	31.73	50.67	54.00	-3.33	AVG
2	2390.000	17.45	31.73	49.18	54.00	-4.82	AVG
3	2483.500	15.25	32.00	47.25	54.00	-6.75	AVG
4	2484.800	16.52	32.00	48.52	54.00	-5.48	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



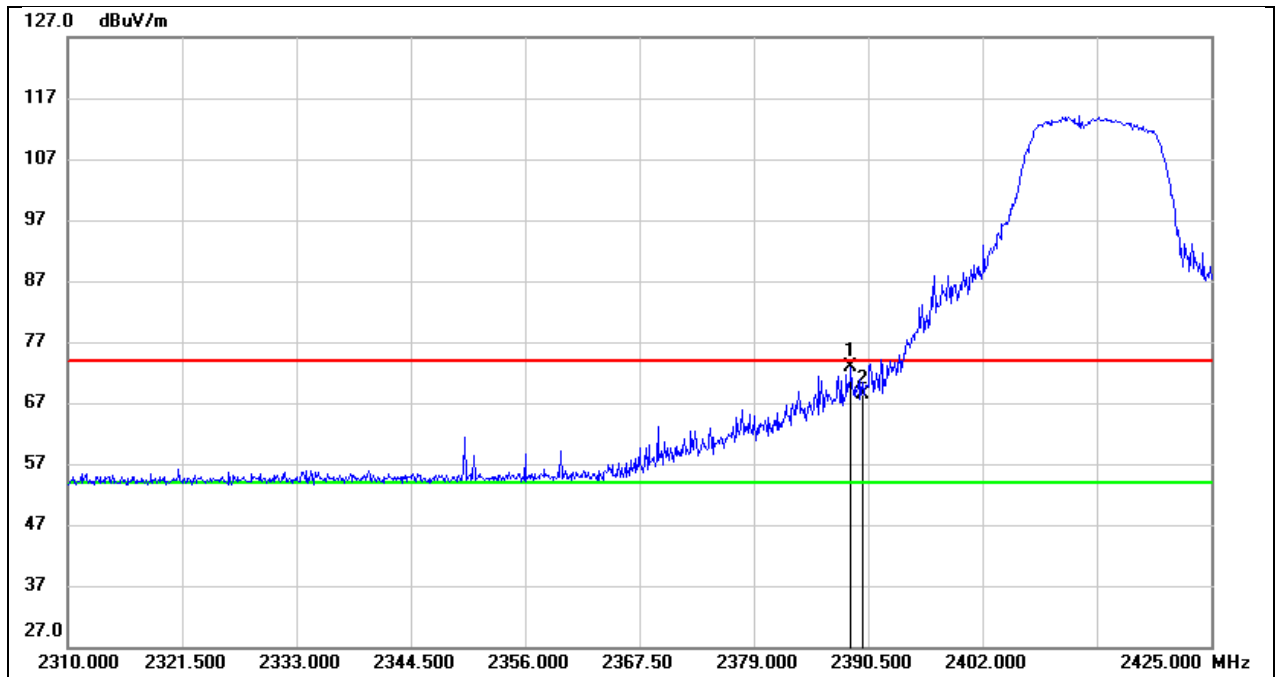
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	24.80	36.81	61.61	74.00	-12.39	peak
2	2488.150	25.32	36.81	62.13	74.00	-11.87	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



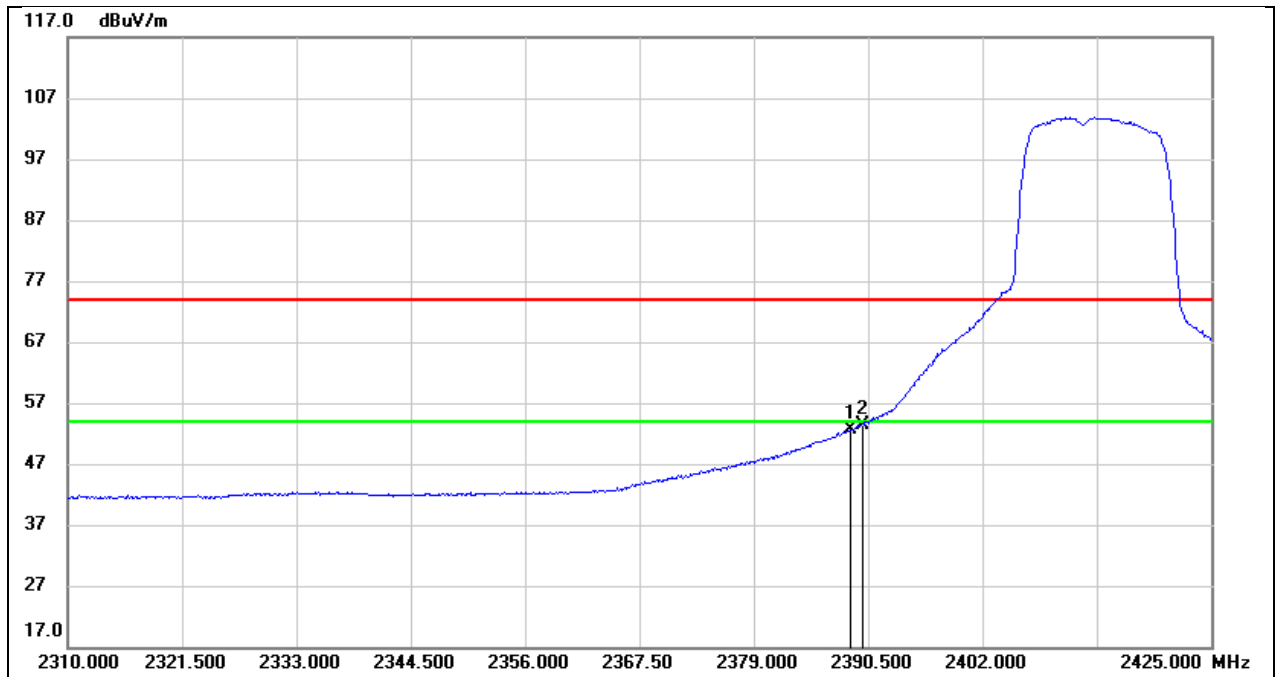
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.92	36.81	52.73	54.00	-1.27	AVG
2	2488.150	14.15	36.81	50.96	54.00	-3.04	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



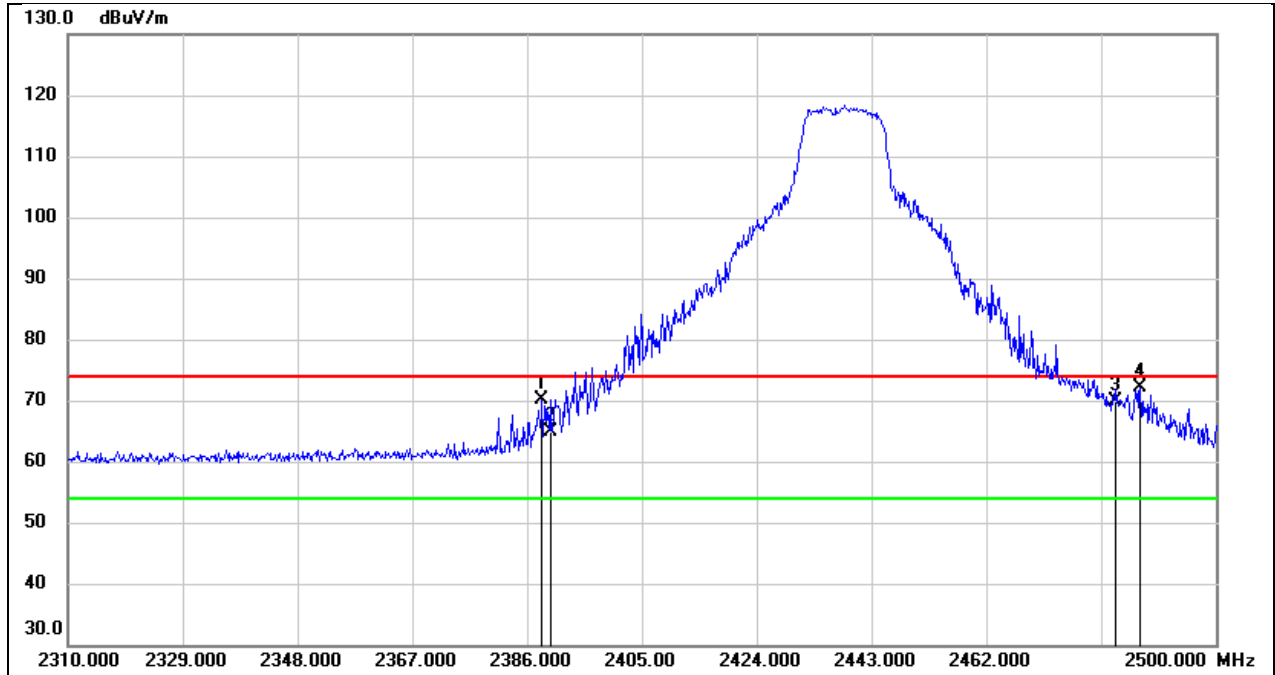
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.775	37.45	35.42	72.87	74.00	-1.13	peak
2	2390.000	32.94	35.43	68.37	74.00	-5.63	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



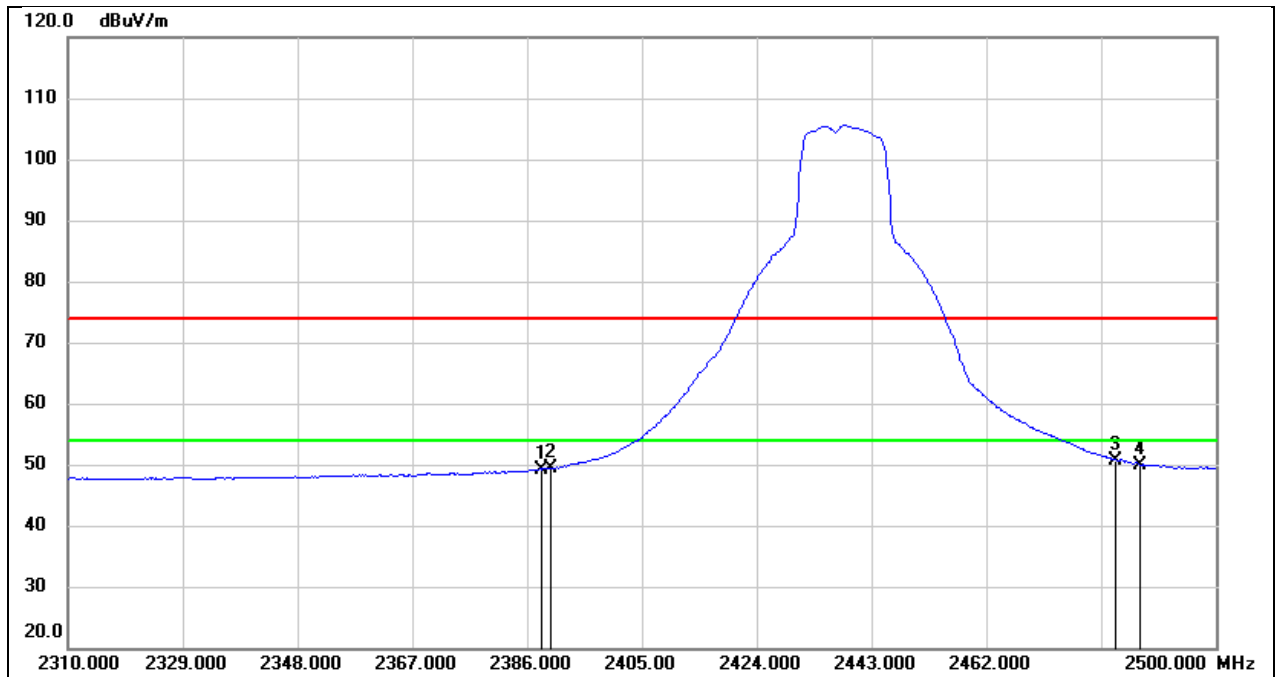
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.775	17.28	35.42	52.70	54.00	-1.30	AVG
2	2390.000	18.02	35.43	53.45	54.00	-0.55	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



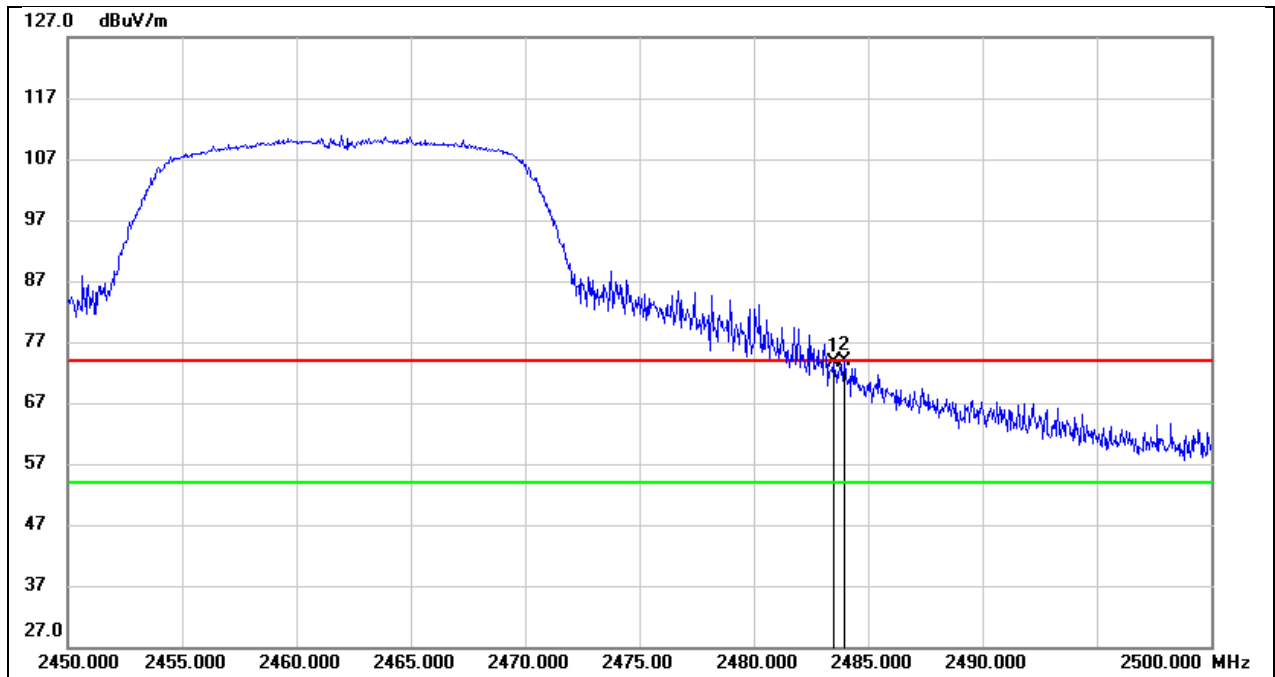
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.470	38.47	31.73	70.20	74.00	-3.80	peak
2	2390.000	33.26	31.73	64.99	74.00	-9.01	peak
3	2483.500	37.91	32.00	69.91	74.00	-4.09	peak
4	2487.460	40.06	32.00	72.06	74.00	-1.94	peak

Test Mode:	802.11g AV	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



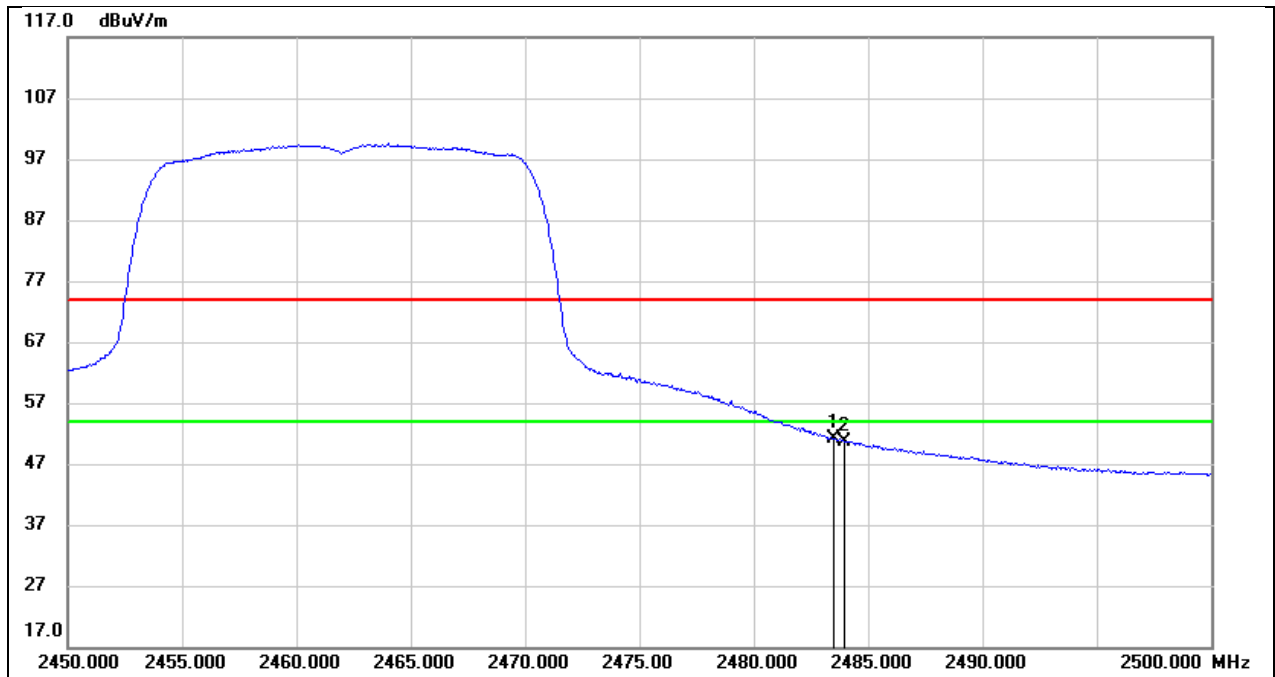
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.470	17.49	31.73	49.22	54.00	-4.78	AVG
2	2390.000	17.59	31.73	49.32	54.00	-4.68	AVG
3	2483.500	18.69	32.00	50.69	54.00	-3.31	AVG
4	2487.460	17.99	32.00	49.99	54.00	-4.01	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



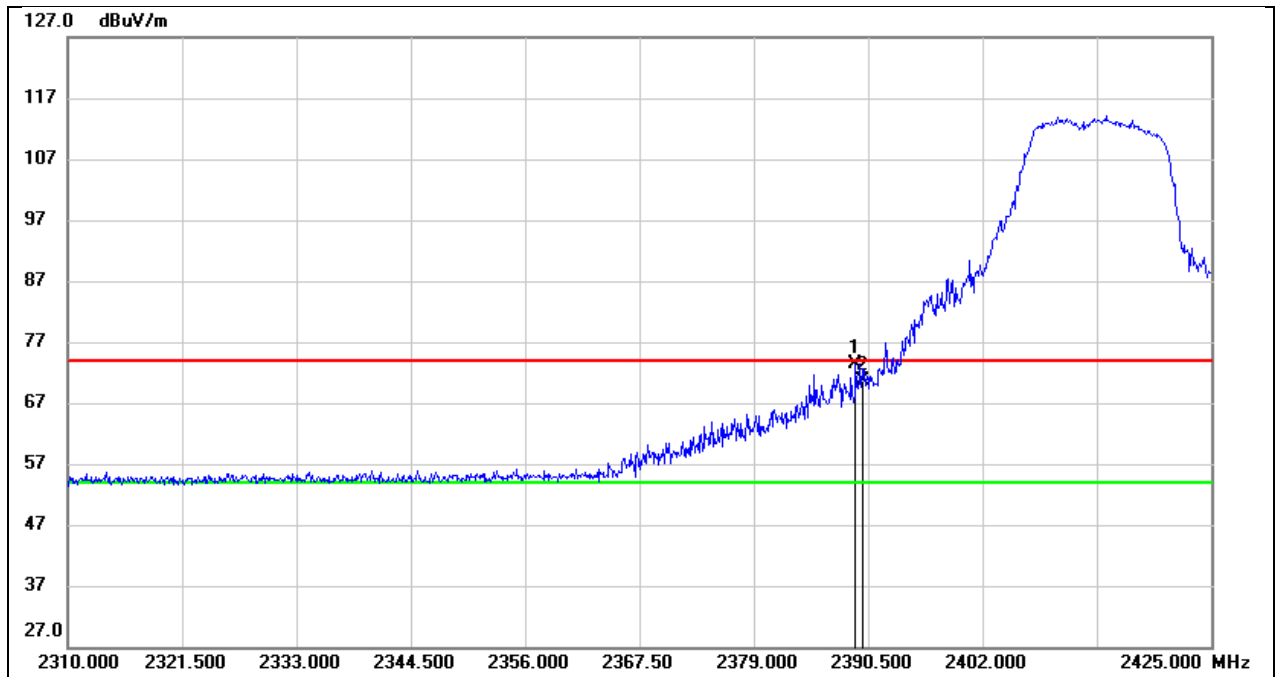
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.60	36.13	73.73	74.00	-0.27	peak
2	2483.950	37.78	36.13	73.91	74.00	-0.09	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



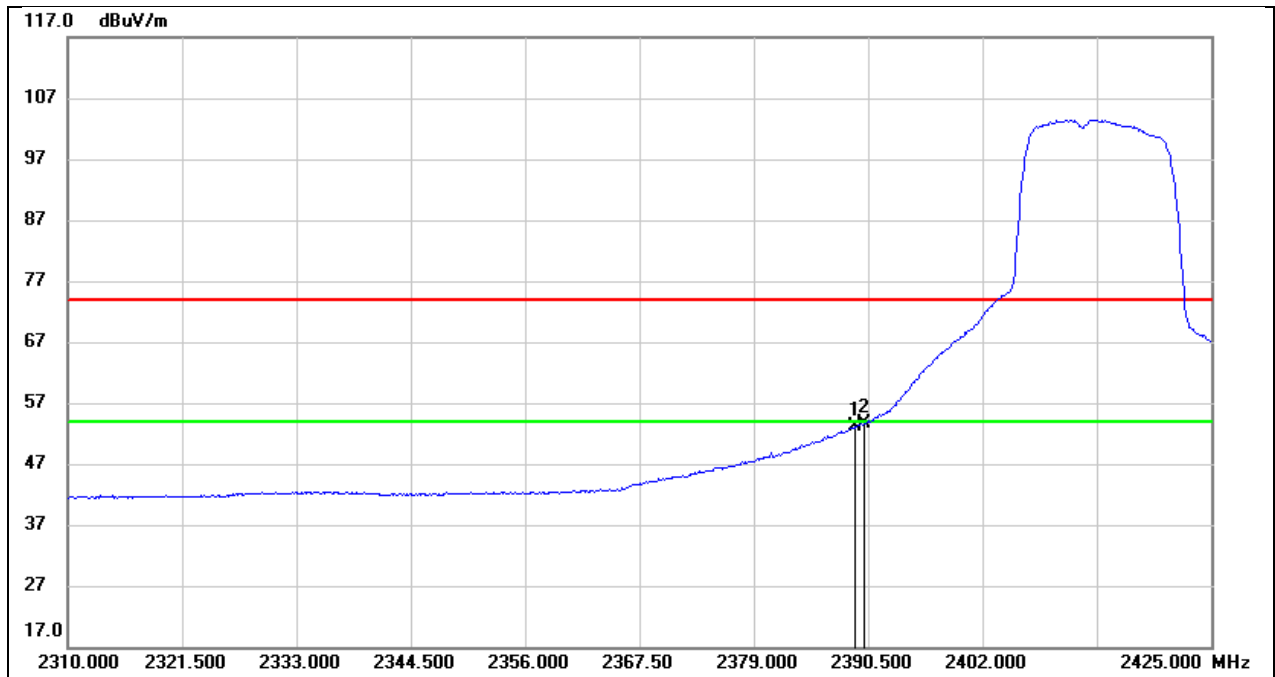
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.98	36.13	51.11	54.00	-2.89	AVG
2	2483.950	14.54	36.13	50.67	54.00	-3.33	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



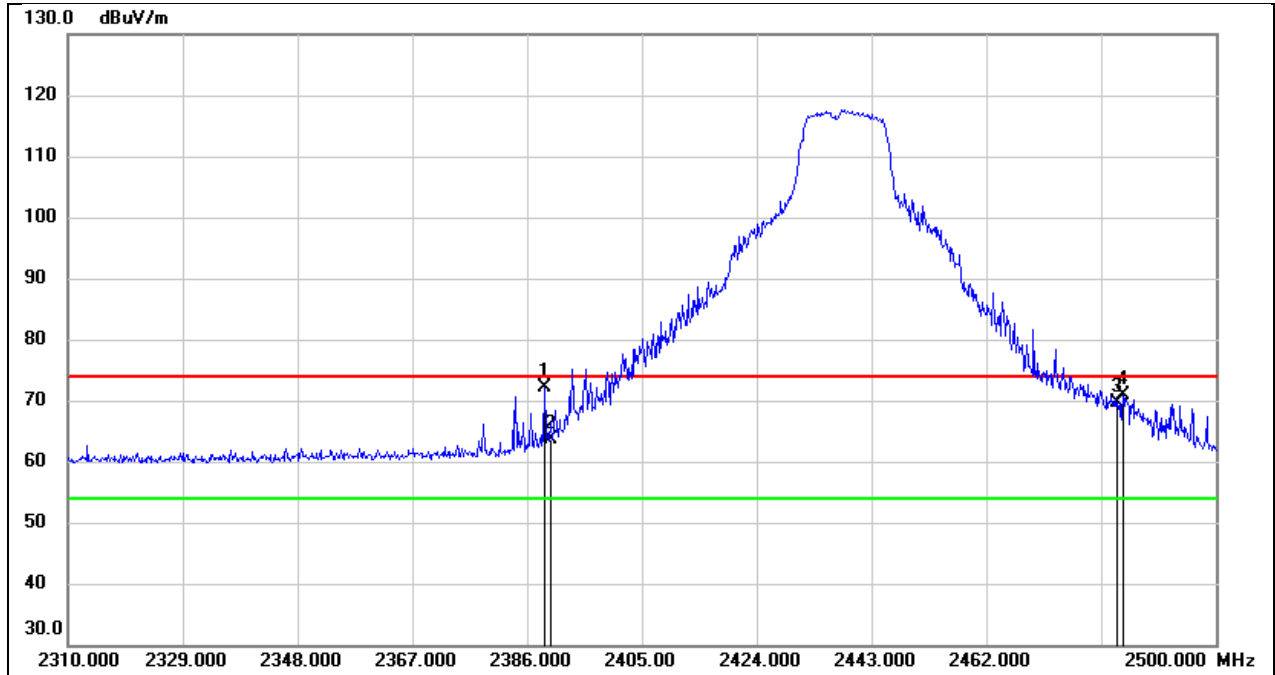
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.235	38.04	35.42	73.46	74.00	-0.54	peak
2	2390.000	35.27	35.43	70.70	74.00	-3.30	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



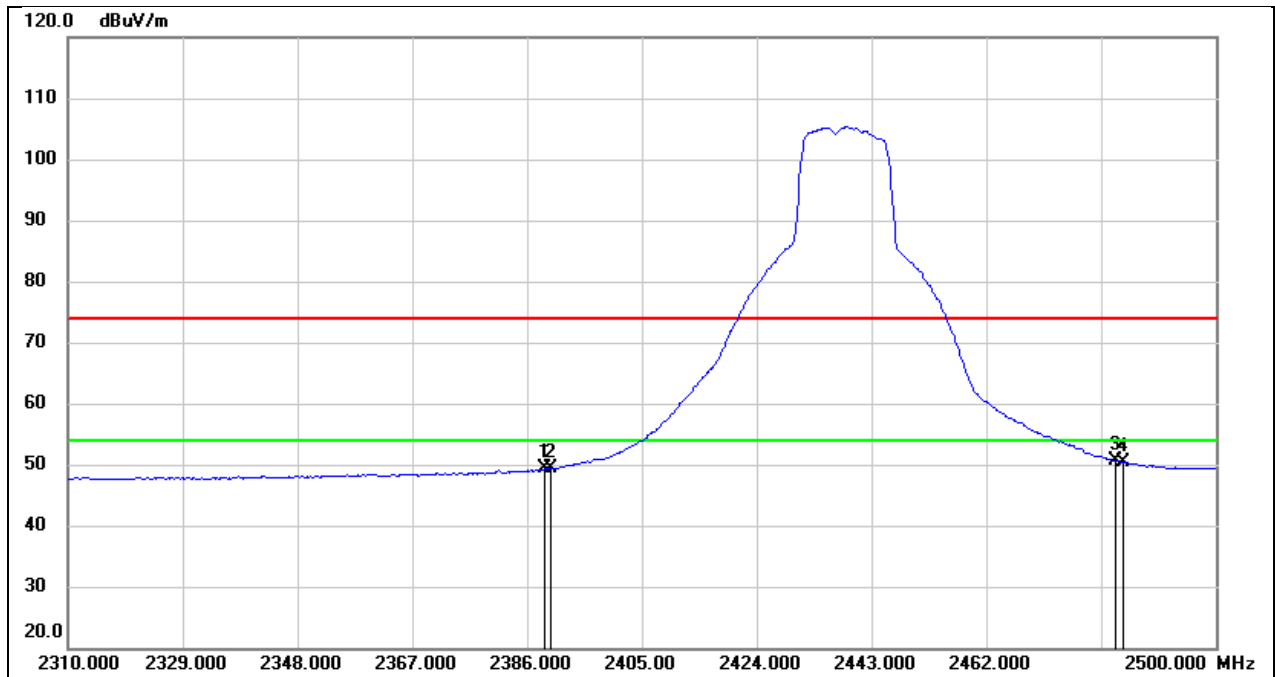
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.235	17.70	35.42	53.12	54.00	-0.88	AVG
2	2390.000	18.21	35.43	53.64	54.00	-0.36	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



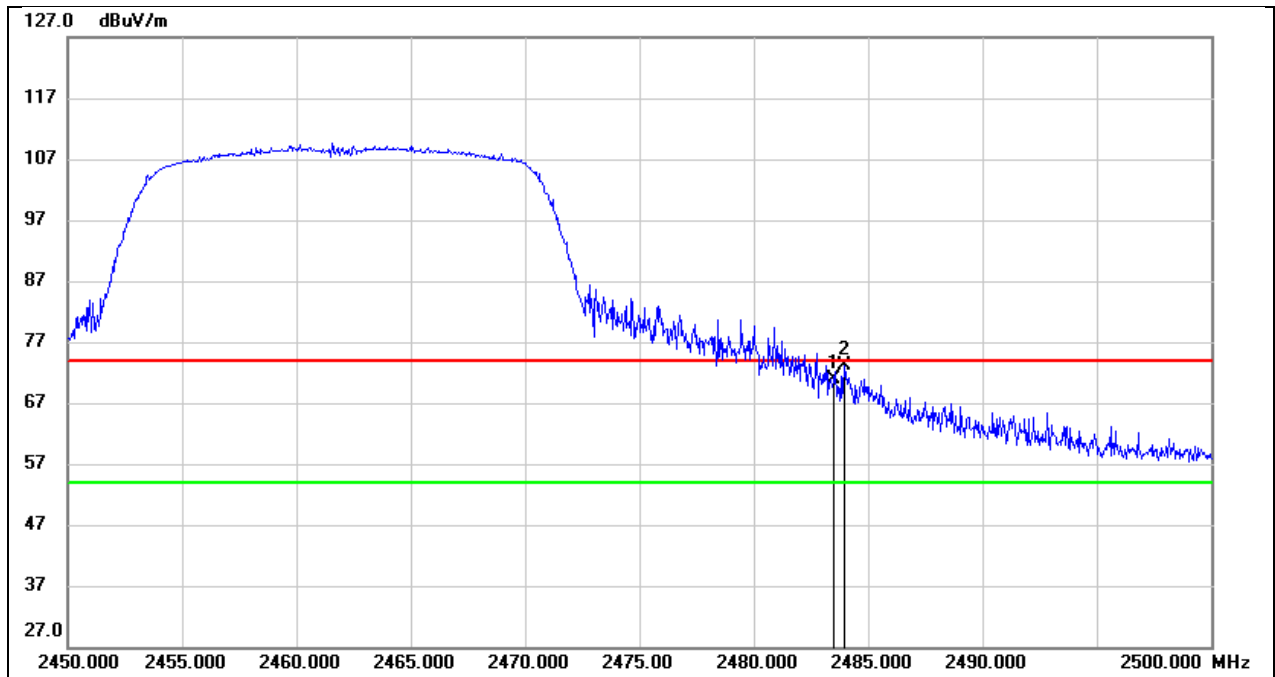
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.850	40.50	31.73	72.23	74.00	-1.77	peak
2	2390.000	31.92	31.73	63.65	74.00	-10.35	peak
3	2483.500	37.68	32.00	69.68	74.00	-4.32	peak
4	2484.610	38.91	32.00	70.91	74.00	-3.09	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



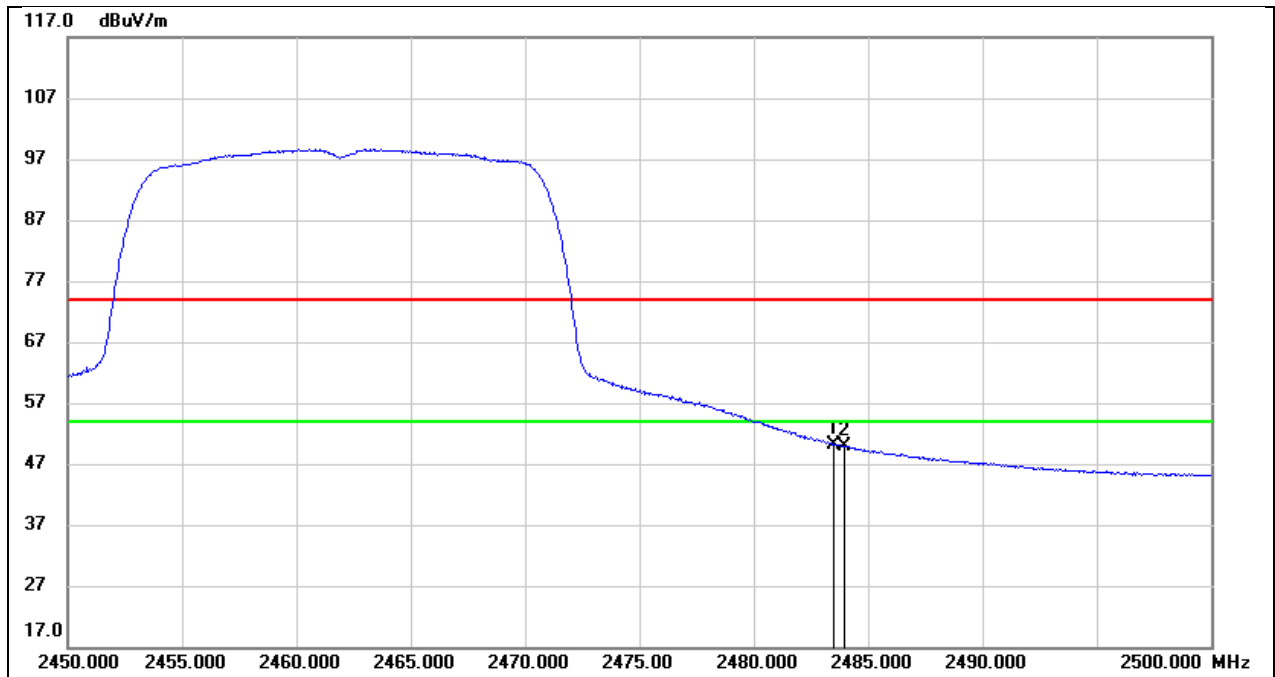
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.850	17.55	31.73	49.28	54.00	-4.72	AVG
2	2390.000	17.61	31.73	49.34	54.00	-4.66	AVG
3	2483.500	18.51	32.00	50.51	54.00	-3.49	AVG
4	2484.610	18.40	32.00	50.40	54.00	-3.60	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	34.77	36.13	70.90	74.00	-3.10	peak
2	2483.950	37.04	36.13	73.17	74.00	-0.83	peak

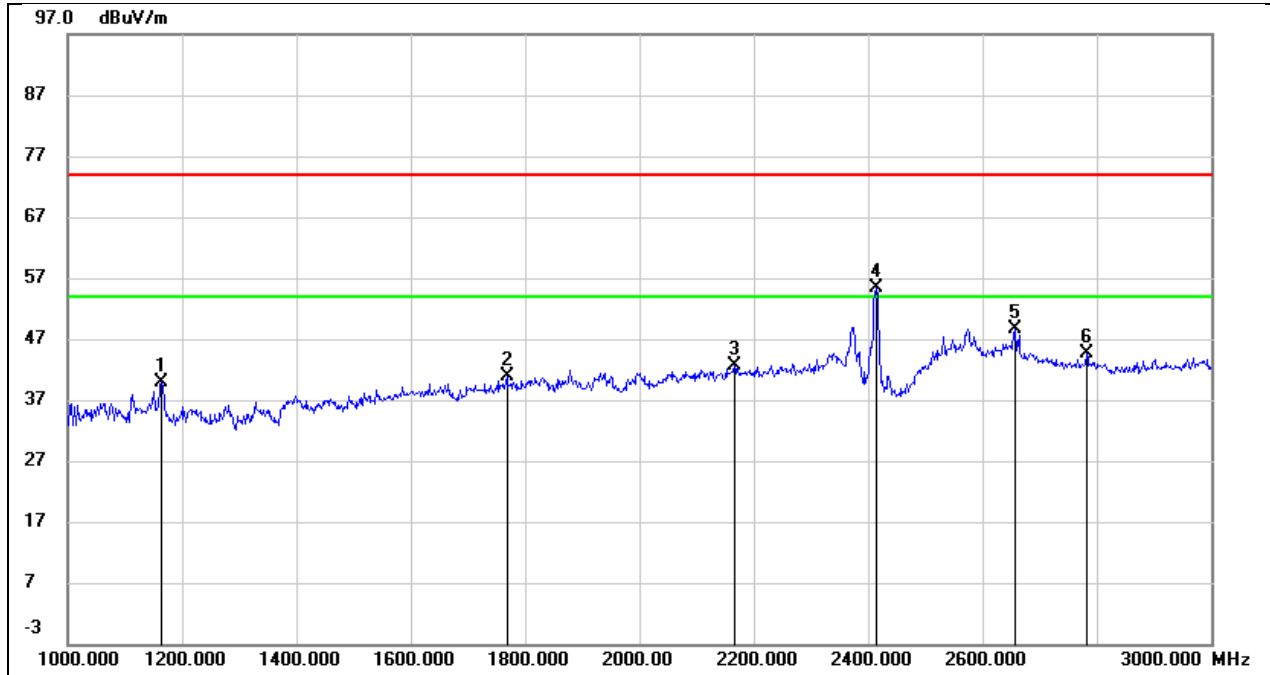
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	13.98	36.13	50.11	54.00	-3.89	AVG
2	2483.950	13.68	36.13	49.81	54.00	-4.19	AVG

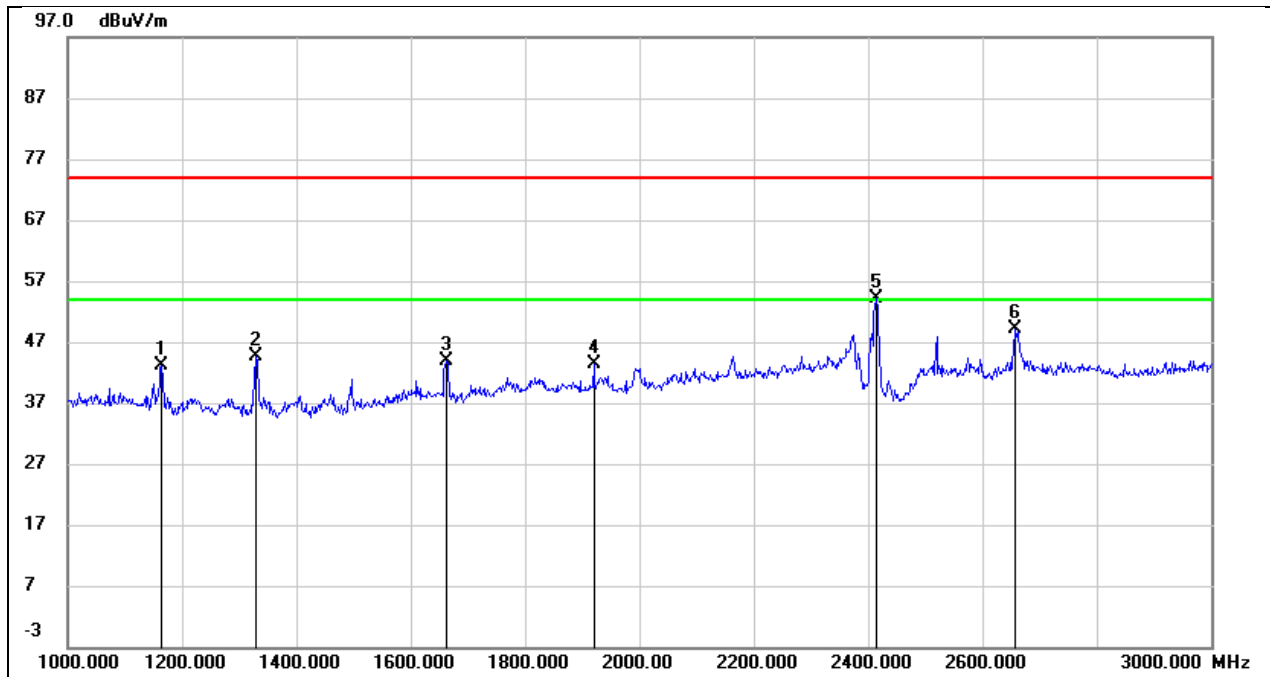
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



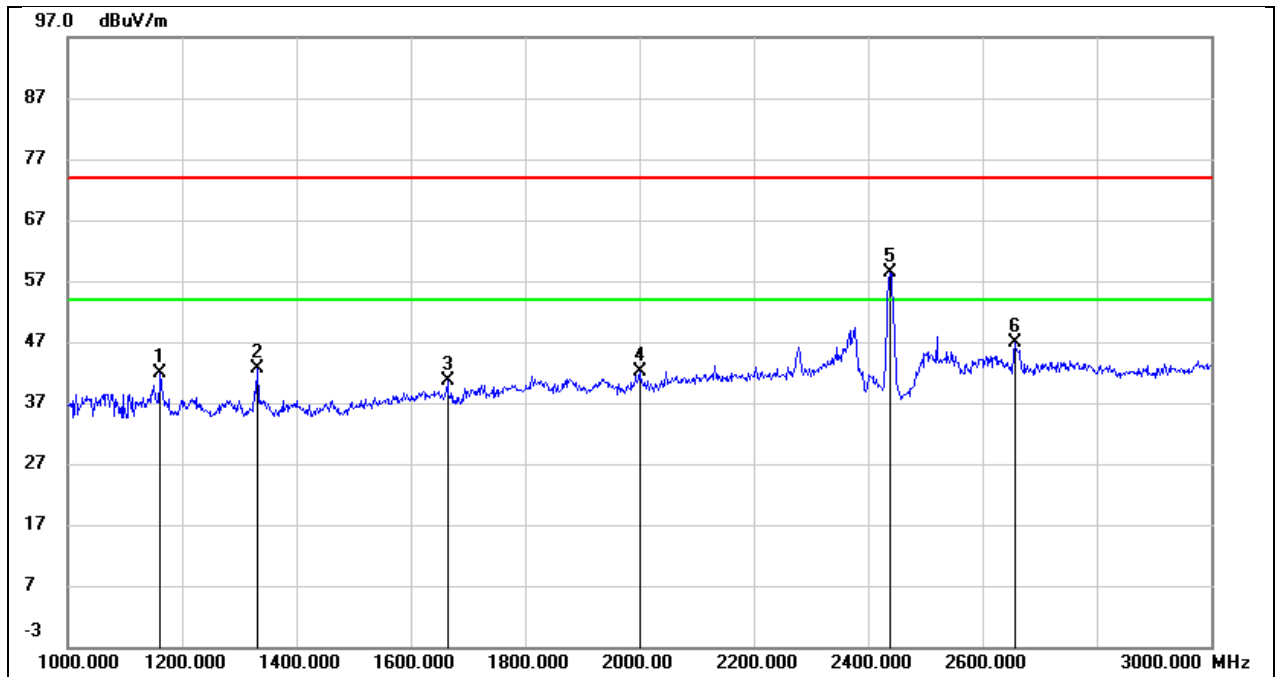
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1164.000	49.28	-9.43	39.85	74.00	-34.15	peak
2	1768.000	47.31	-6.44	40.87	74.00	-33.13	peak
3	2166.000	47.03	-4.47	42.56	74.00	-31.44	peak
4	2412.000	58.97	-3.68	55.29	/	/	fundamental
5	2658.000	51.31	-2.66	48.65	74.00	-25.35	peak
6	2782.000	46.80	-2.08	44.72	74.00	-29.28	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



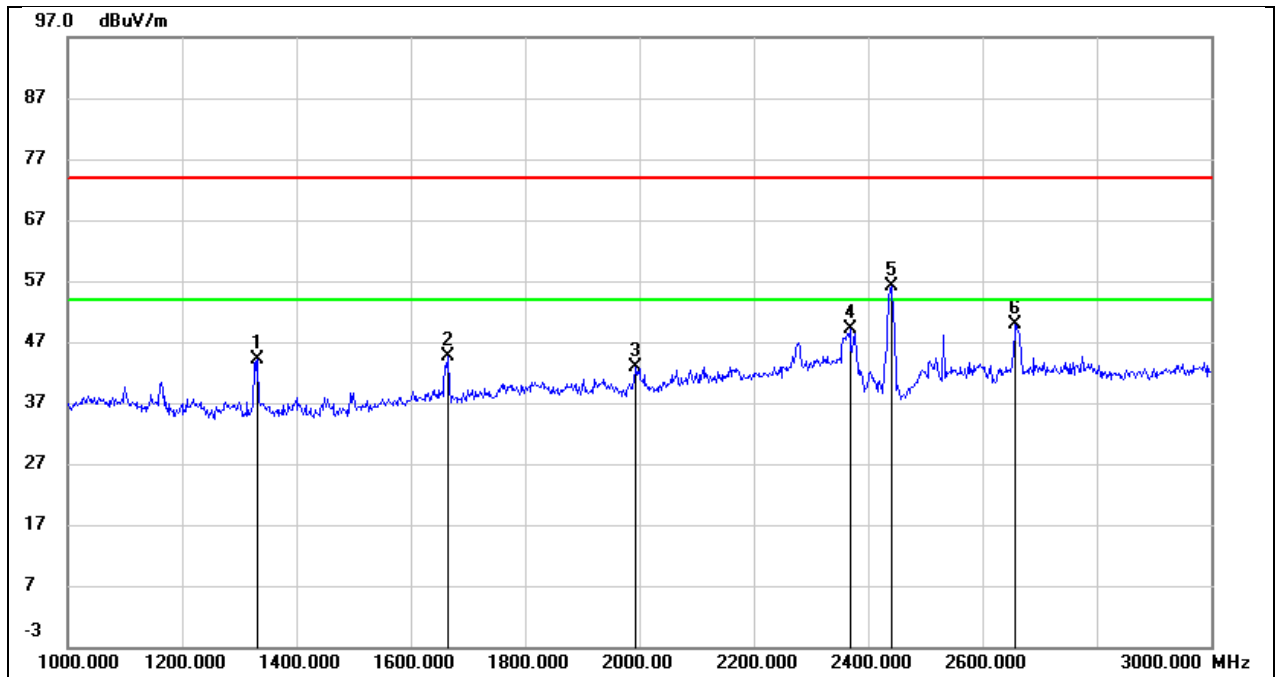
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1164.000	52.48	-9.43	43.05	74.00	-30.95	peak
2	1330.000	54.12	-9.59	44.53	74.00	-29.47	peak
3	1662.000	51.56	-7.80	43.76	74.00	-30.24	peak
4	1920.000	48.73	-5.41	43.32	74.00	-30.68	peak
5	2412.000	57.72	-3.68	54.04	/	/	fundamental
6	2658.000	51.88	-2.66	49.22	74.00	-24.78	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



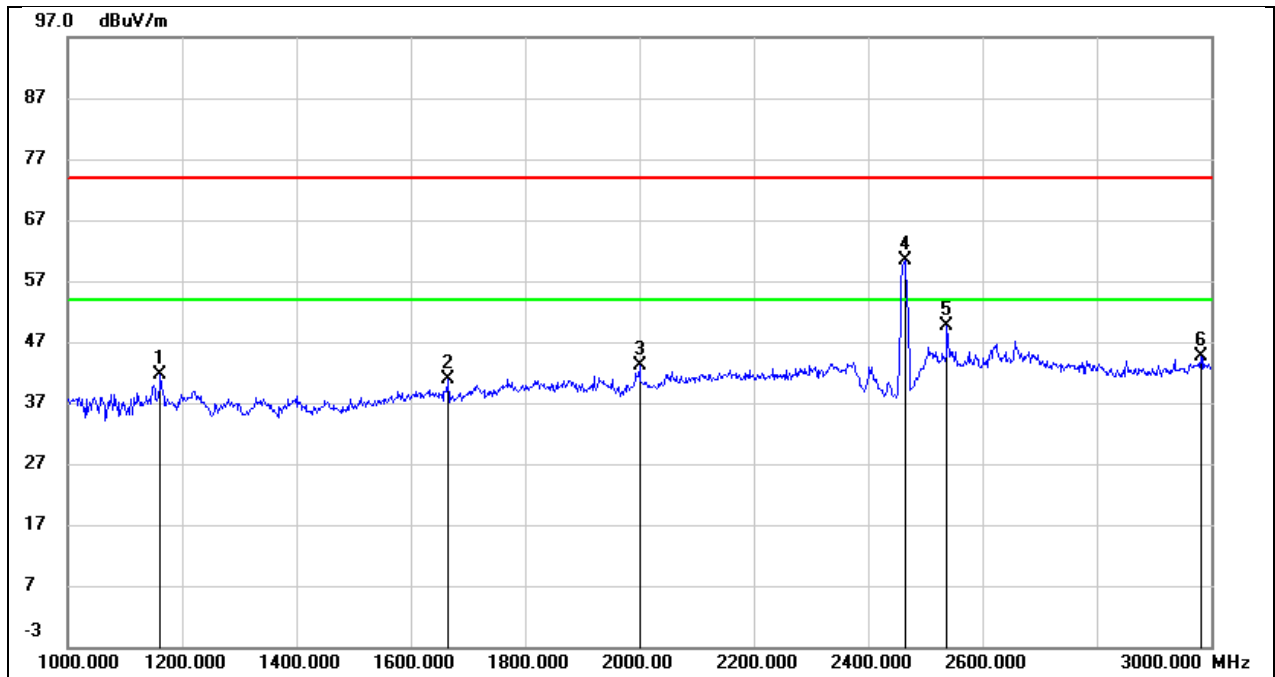
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1162.000	51.30	-9.43	41.87	74.00	-32.13	peak
2	1332.000	52.31	-9.60	42.71	74.00	-31.29	peak
3	1664.000	48.34	-7.78	40.56	74.00	-33.44	peak
4	2000.000	47.18	-5.00	42.18	74.00	-31.82	peak
5	2437.000	61.88	-3.61	58.27	/	/	fundamental
6	2656.000	49.54	-2.66	46.88	74.00	-27.12	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



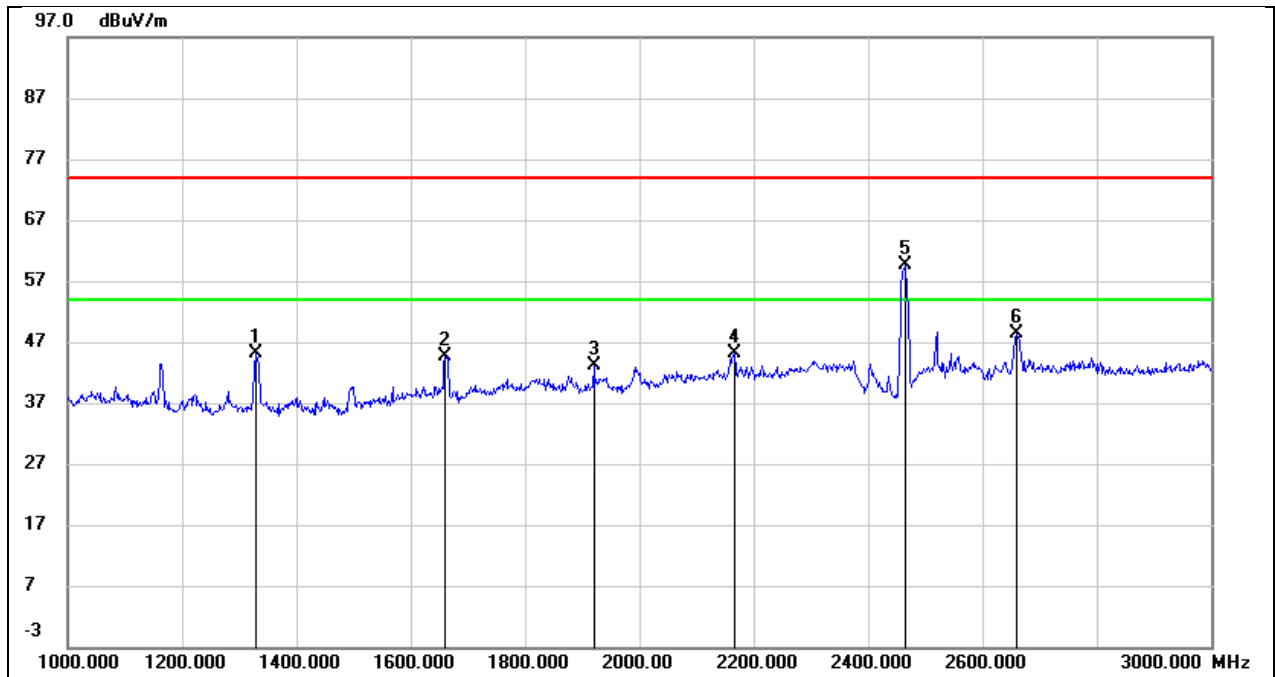
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1332.000	53.64	-9.60	44.04	74.00	-29.96	peak
2	1666.000	52.33	-7.75	44.58	74.00	-29.42	peak
3	1994.000	47.88	-5.03	42.85	74.00	-31.15	peak
4	2368.000	53.06	-3.83	49.23	74.00	-24.77	peak
5	2437.000	59.65	-3.60	56.05	/	/	fundamental
6	2658.000	52.52	-2.66	49.86	74.00	-24.14	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1162.000	50.94	-9.43	41.51	74.00	-32.49	peak
2	1666.000	48.57	-7.75	40.82	74.00	-33.18	peak
3	2000.000	48.06	-5.00	43.06	74.00	-30.94	peak
4	2462.000	63.81	-3.52	60.29	/	/	fundamental
5	2538.000	52.95	-3.23	49.72	74.00	-24.28	peak
6	2982.000	45.63	-1.09	44.54	74.00	-29.46	peak

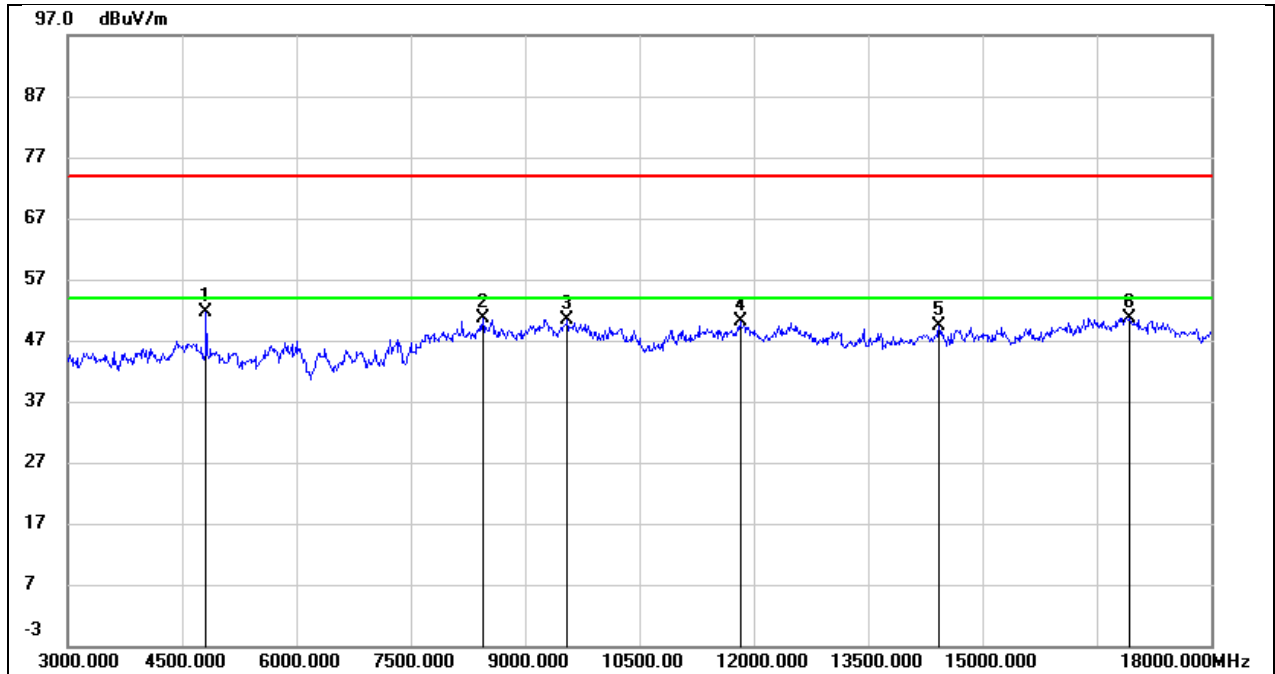
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1330.000	54.76	-9.59	45.17	74.00	-28.83	peak
2	1660.000	52.47	-7.83	44.64	74.00	-29.36	peak
3	1920.000	48.61	-5.41	43.20	74.00	-30.80	peak
4	2166.000	49.48	-4.47	45.01	74.00	-28.99	peak
5	2462.000	63.16	-3.52	59.64	/	/	fundamental
6	2660.000	51.13	-2.64	48.49	74.00	-25.51	peak

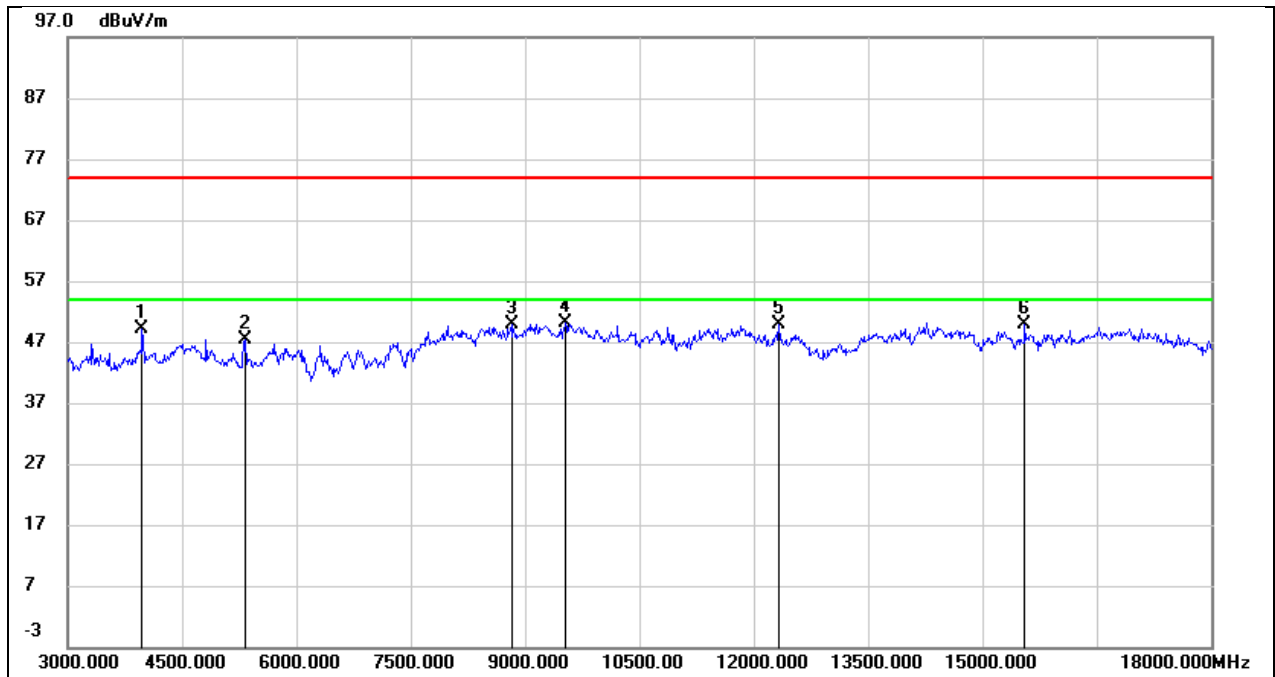
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



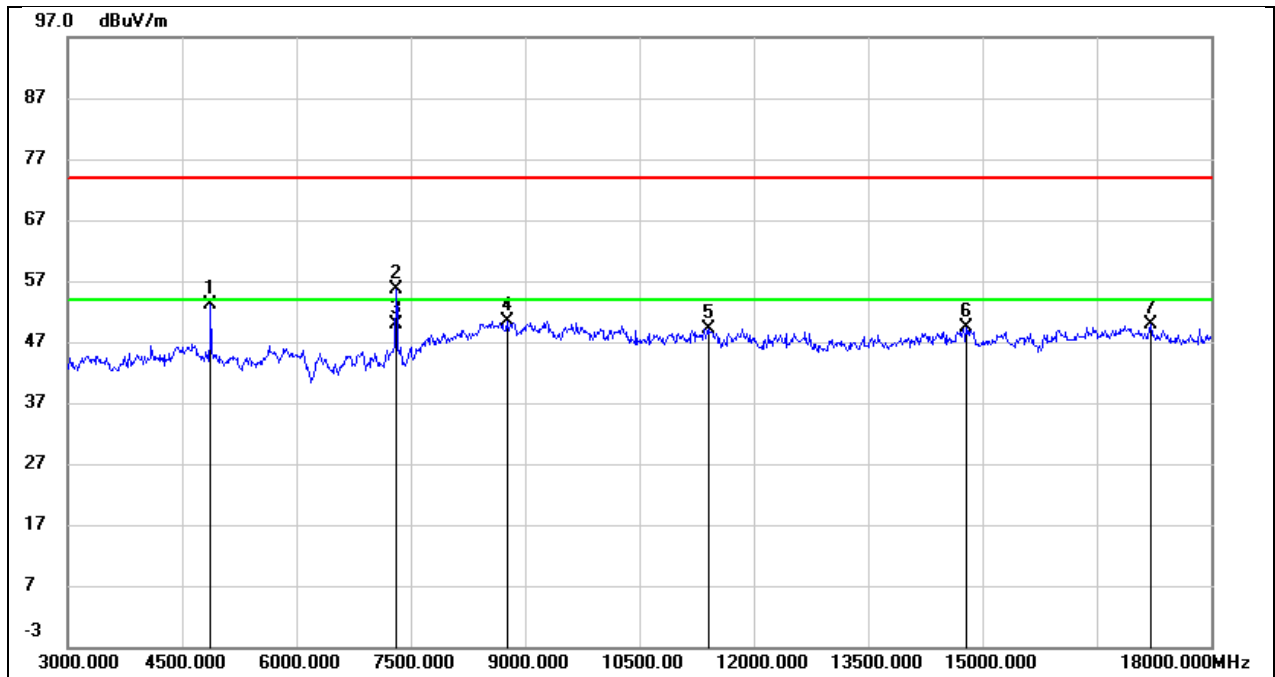
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.89	2.77	51.66	74.00	-22.34	peak
2	8445.000	41.59	9.06	50.65	74.00	-23.35	peak
3	9555.000	38.93	11.56	50.49	74.00	-23.51	peak
4	11820.000	33.61	16.57	50.18	74.00	-23.82	peak
5	14430.000	28.89	20.47	49.36	74.00	-24.64	peak
6	16920.000	26.81	23.91	50.72	74.00	-23.28	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



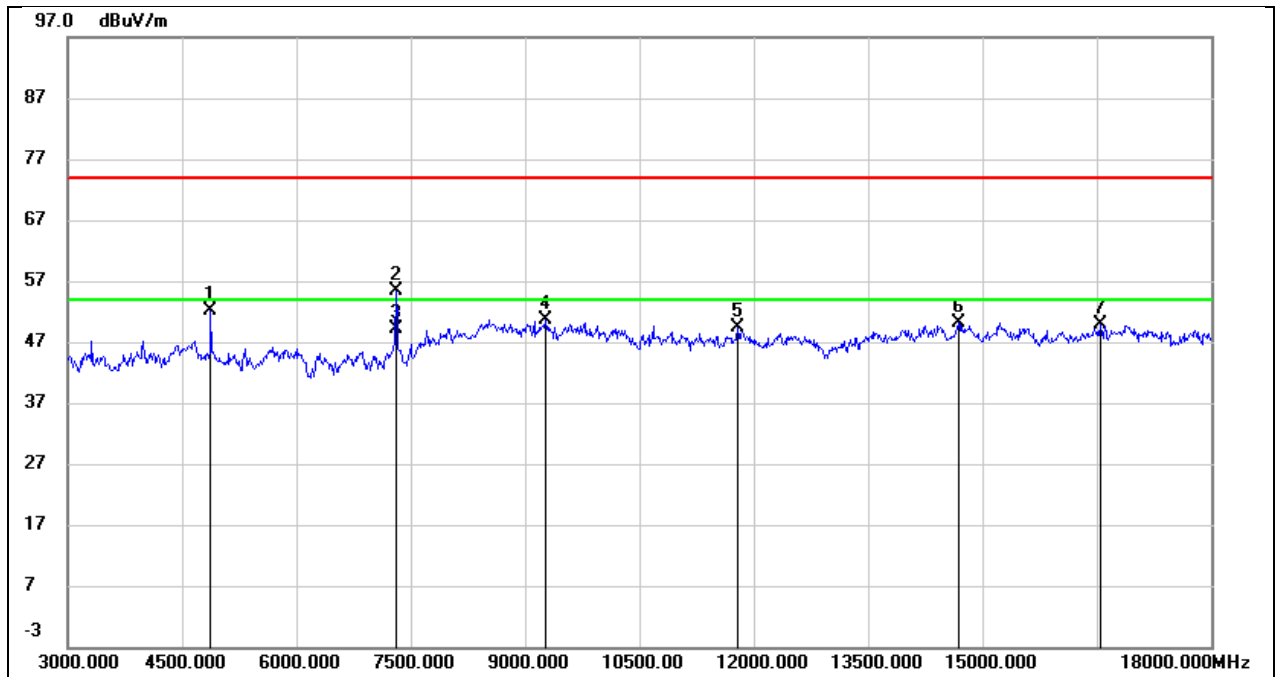
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	48.51	0.68	49.19	74.00	-24.81	peak
2	5325.000	44.31	3.14	47.45	74.00	-26.55	peak
3	8820.000	40.34	9.50	49.84	74.00	-24.16	peak
4	9525.000	38.78	11.42	50.20	74.00	-23.80	peak
5	12330.000	32.61	17.23	49.84	74.00	-24.16	peak
6	15555.000	28.44	21.35	49.79	74.00	-24.21	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



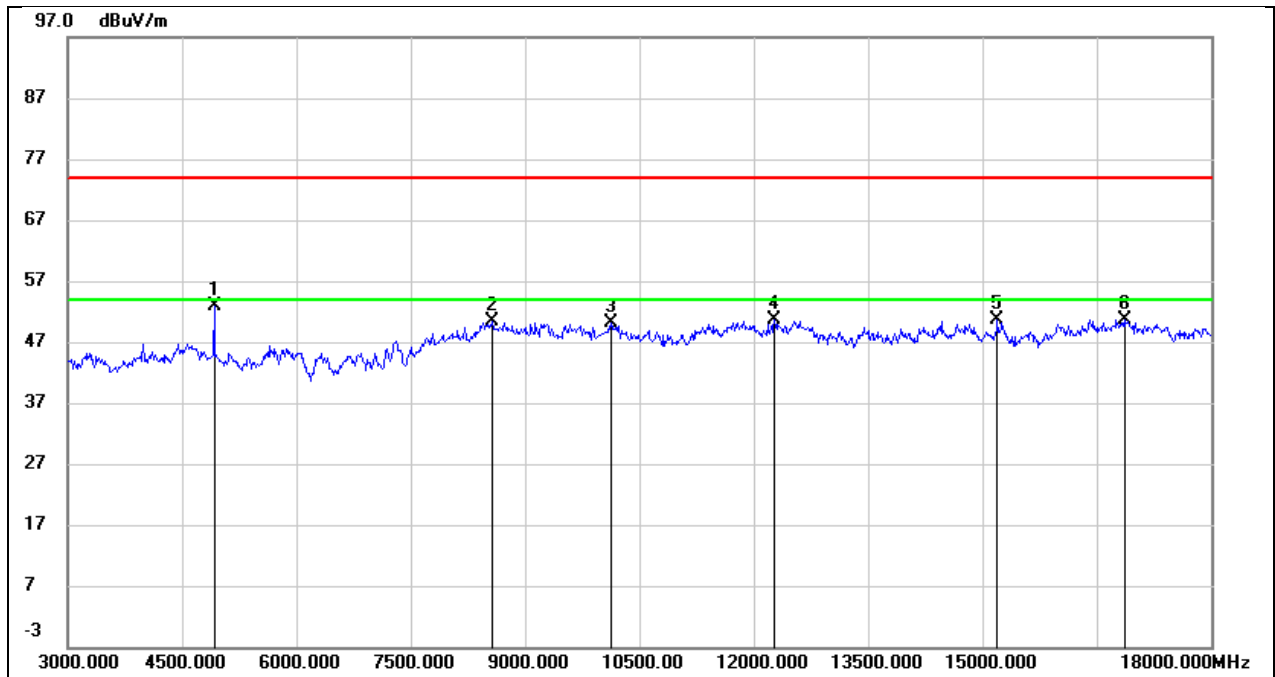
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	50.30	2.80	53.10	74.00	-20.90	peak
2	7305.000	48.84	6.82	55.66	74.00	-18.34	peak
3	7305.000	43.02	6.82	49.84	54.00	-4.16	AVG
4	8760.000	41.05	9.45	50.50	74.00	-23.50	peak
5	11400.000	33.53	15.56	49.09	74.00	-24.91	peak
6	14790.000	29.12	20.28	49.40	74.00	-24.60	peak
7	17205.000	26.13	23.78	49.91	74.00	-24.09	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



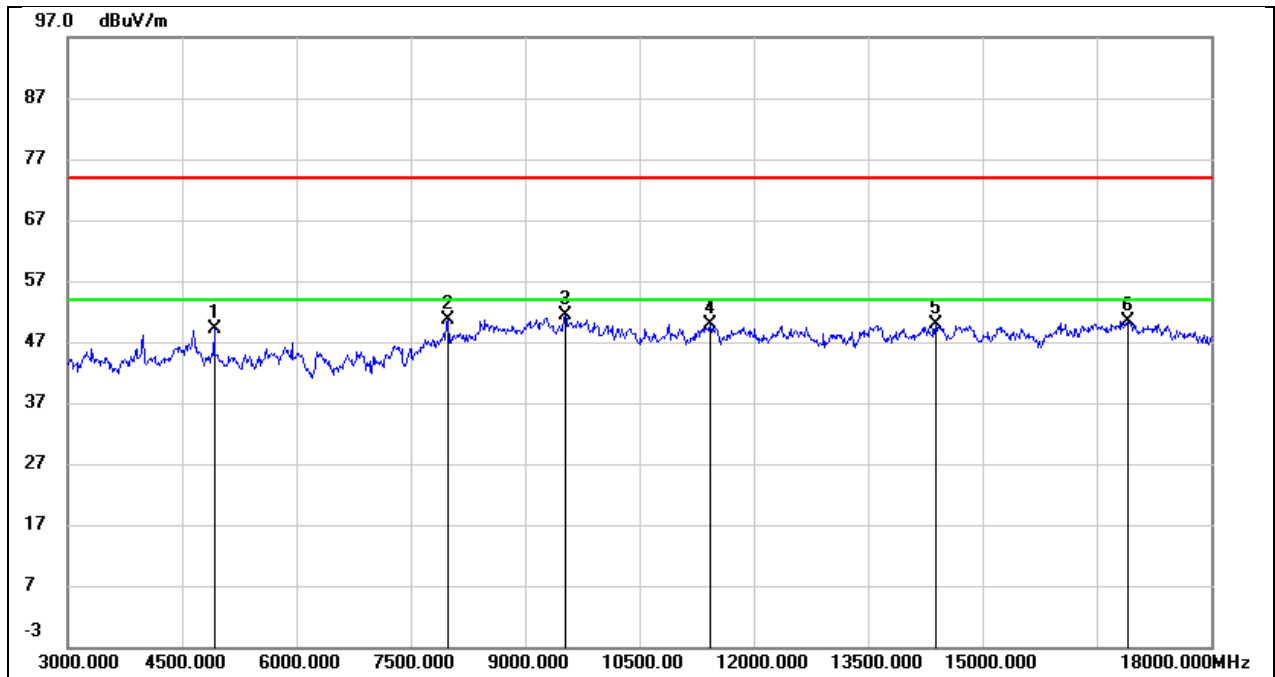
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	49.36	2.80	52.16	74.00	-21.84	peak
2	7305.000	48.65	6.82	55.47	74.00	-18.53	peak
3	7305.000	42.21	6.82	49.03	54.00	-4.97	AVG
4	9270.000	40.03	10.65	50.68	74.00	-23.32	peak
5	11790.000	32.96	16.51	49.47	74.00	-24.53	peak
6	14685.000	29.83	20.38	50.21	74.00	-23.79	peak
7	16545.000	26.32	23.63	49.95	74.00	-24.05	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



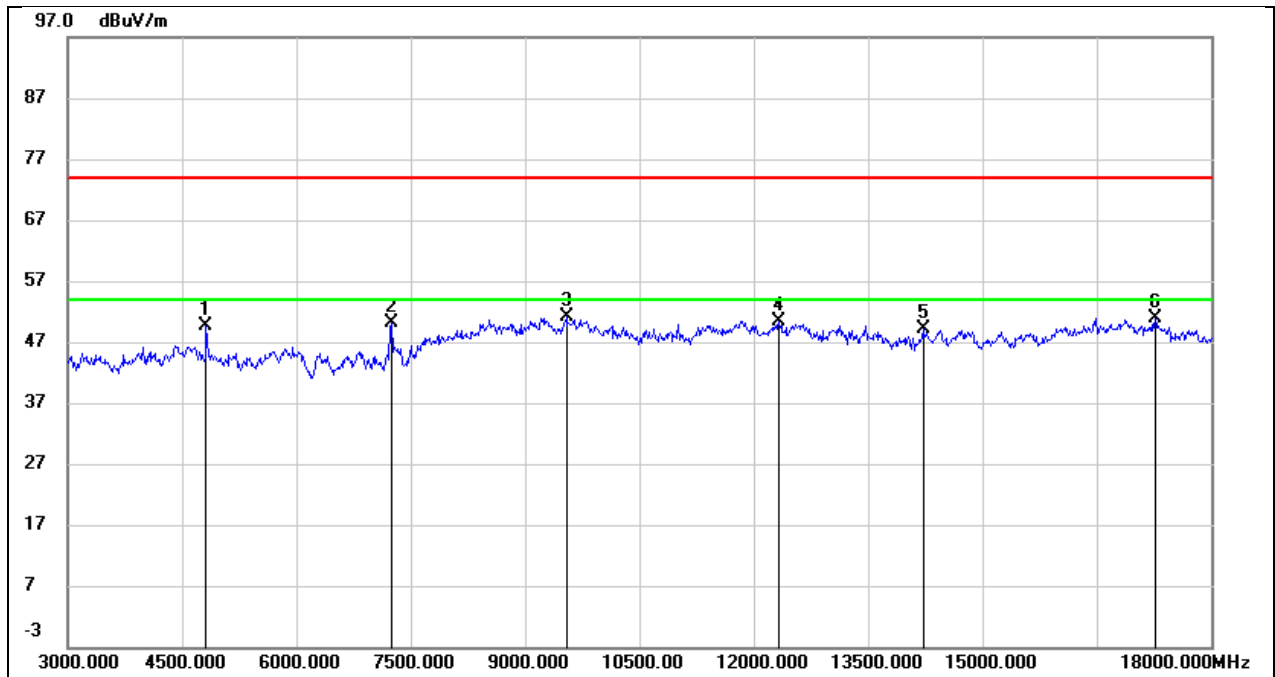
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	50.13	2.82	52.95	74.00	-21.05	peak
2	8565.000	41.14	9.34	50.48	74.00	-23.52	peak
3	10125.000	37.73	12.35	50.08	74.00	-23.92	peak
4	12270.000	33.40	17.11	50.51	74.00	-23.49	peak
5	15195.000	30.22	20.35	50.57	74.00	-23.43	peak
6	16860.000	26.76	23.93	50.69	74.00	-23.31	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



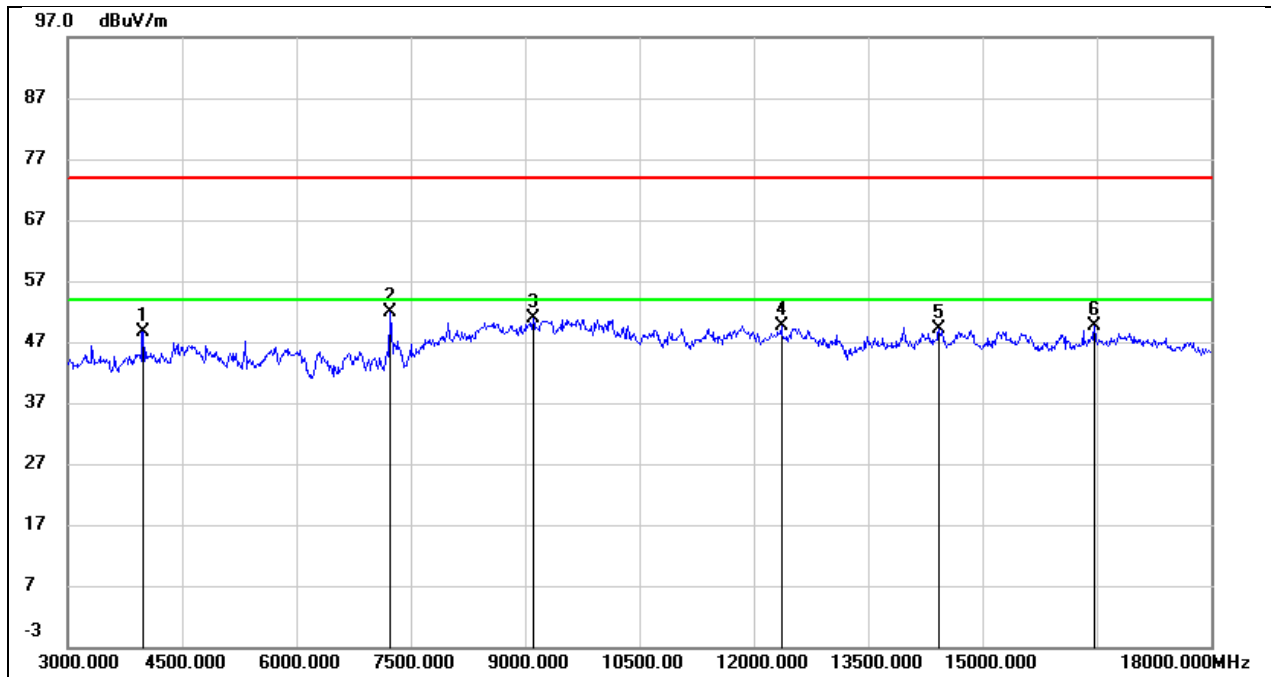
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	46.39	2.82	49.21	74.00	-24.79	peak
2	7980.000	43.29	7.41	50.70	74.00	-23.30	peak
3	9525.000	39.91	11.42	51.33	74.00	-22.67	peak
4	11430.000	34.27	15.63	49.90	74.00	-24.10	peak
5	14385.000	29.39	20.48	49.87	74.00	-24.13	peak
6	16905.000	26.48	23.91	50.39	74.00	-23.61	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



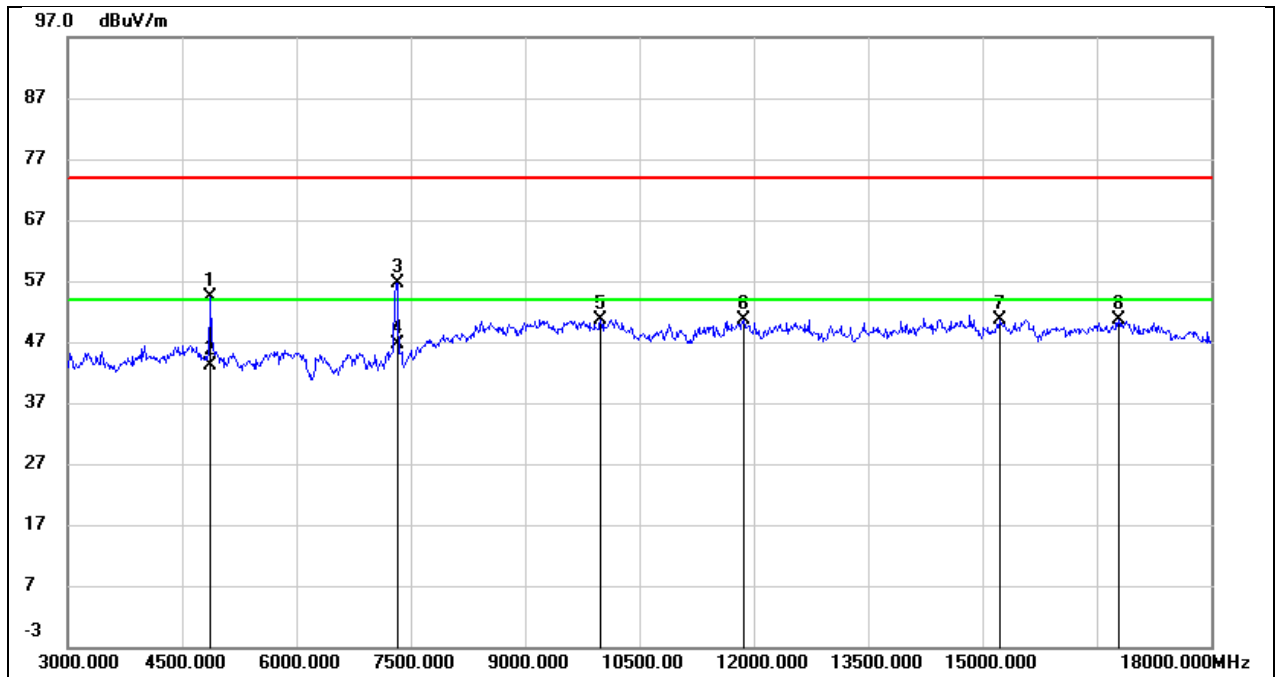
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	46.89	2.77	49.66	74.00	-24.34	peak
2	7245.000	43.32	6.81	50.13	74.00	-23.87	peak
3	9540.000	39.60	11.49	51.09	74.00	-22.91	peak
4	12330.000	33.08	17.23	50.31	74.00	-23.69	peak
5	14220.000	28.40	20.67	49.07	74.00	-24.93	peak
6	17265.000	27.18	23.72	50.90	74.00	-23.10	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



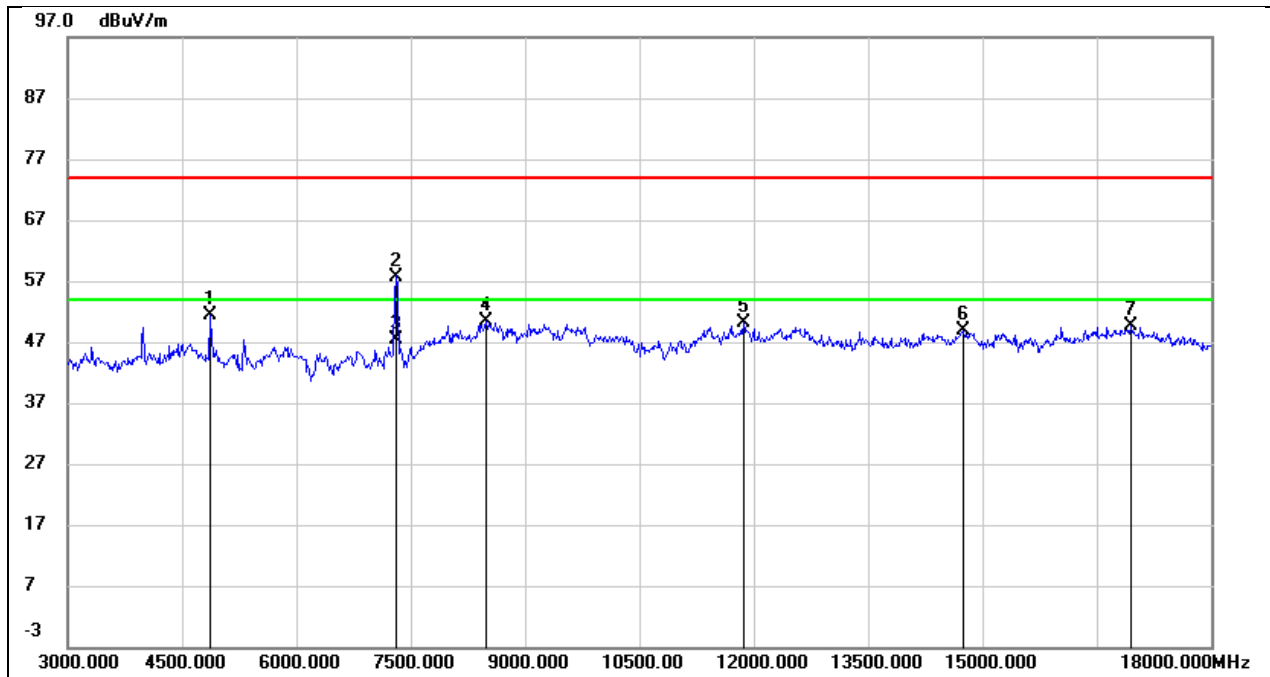
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	47.98	0.71	48.69	74.00	-25.31	peak
2	7230.000	45.11	6.80	51.91	74.00	-22.09	peak
3	9105.000	40.74	10.19	50.93	74.00	-23.07	peak
4	12360.000	32.41	17.26	49.67	74.00	-24.33	peak
5	14430.000	28.72	20.47	49.19	74.00	-24.81	peak
6	16470.000	26.21	23.50	49.71	74.00	-24.29	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



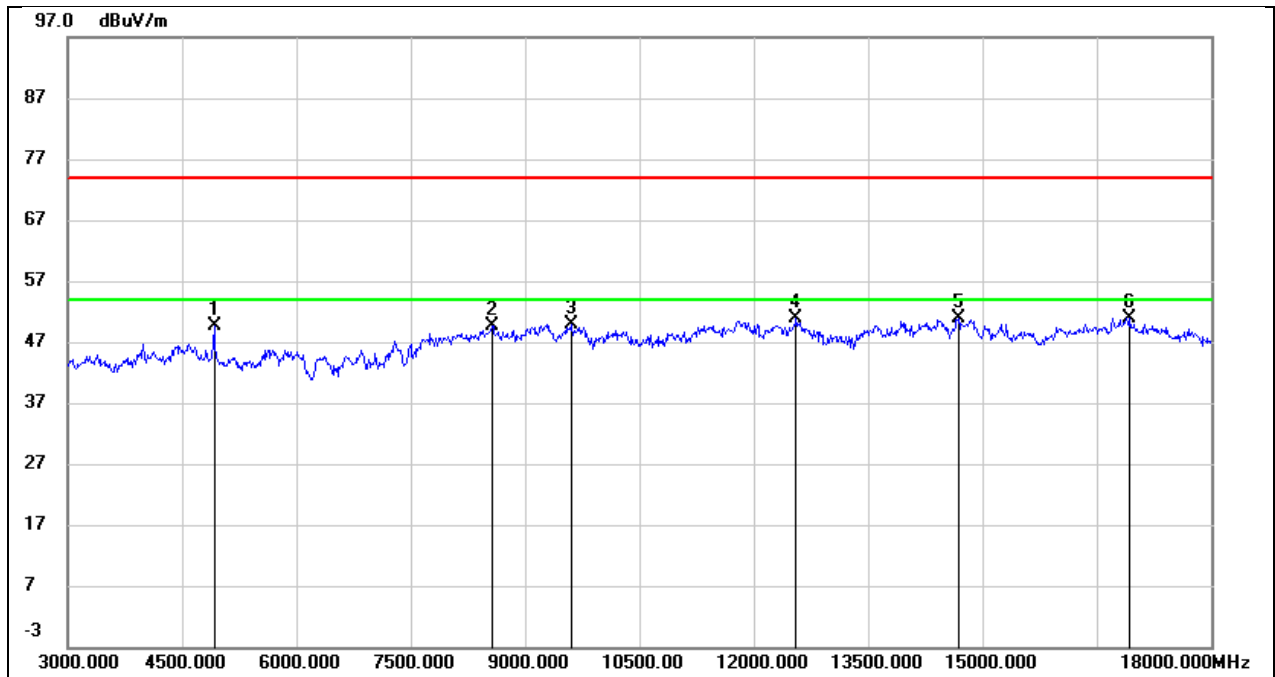
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	51.62	2.80	54.42	74.00	-19.58	peak
2	4875.000	40.41	2.80	43.21	54.00	-10.79	AVG
3	7320.000	49.81	6.83	56.64	74.00	-17.36	peak
4	7320.000	39.82	6.83	46.65	54.00	-7.35	AVG
5	9990.000	38.28	12.34	50.62	74.00	-23.38	peak
6	11865.000	34.01	16.66	50.67	74.00	-23.33	peak
7	15225.000	30.29	20.45	50.74	74.00	-23.26	peak
8	16785.000	26.73	23.93	50.66	74.00	-23.34	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



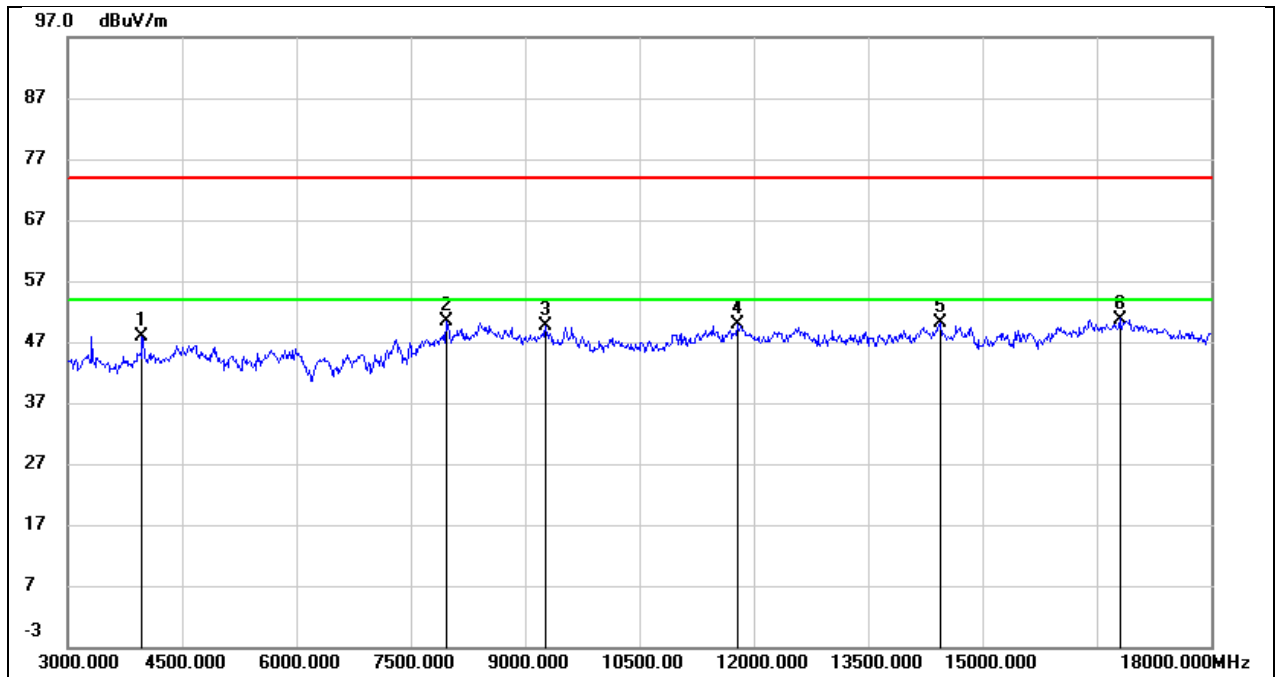
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	48.61	2.80	51.41	74.00	-22.59	peak
2	7305.000	50.93	6.82	57.75	74.00	-16.25	peak
3	7305.000	40.63	6.82	47.45	54.00	-6.55	AVG
4	8490.000	41.30	9.19	50.49	74.00	-23.51	peak
5	11865.000	33.39	16.66	50.05	74.00	-23.95	peak
6	14745.000	28.66	20.32	48.98	74.00	-25.02	peak
7	16950.000	25.63	23.90	49.53	74.00	-24.47	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



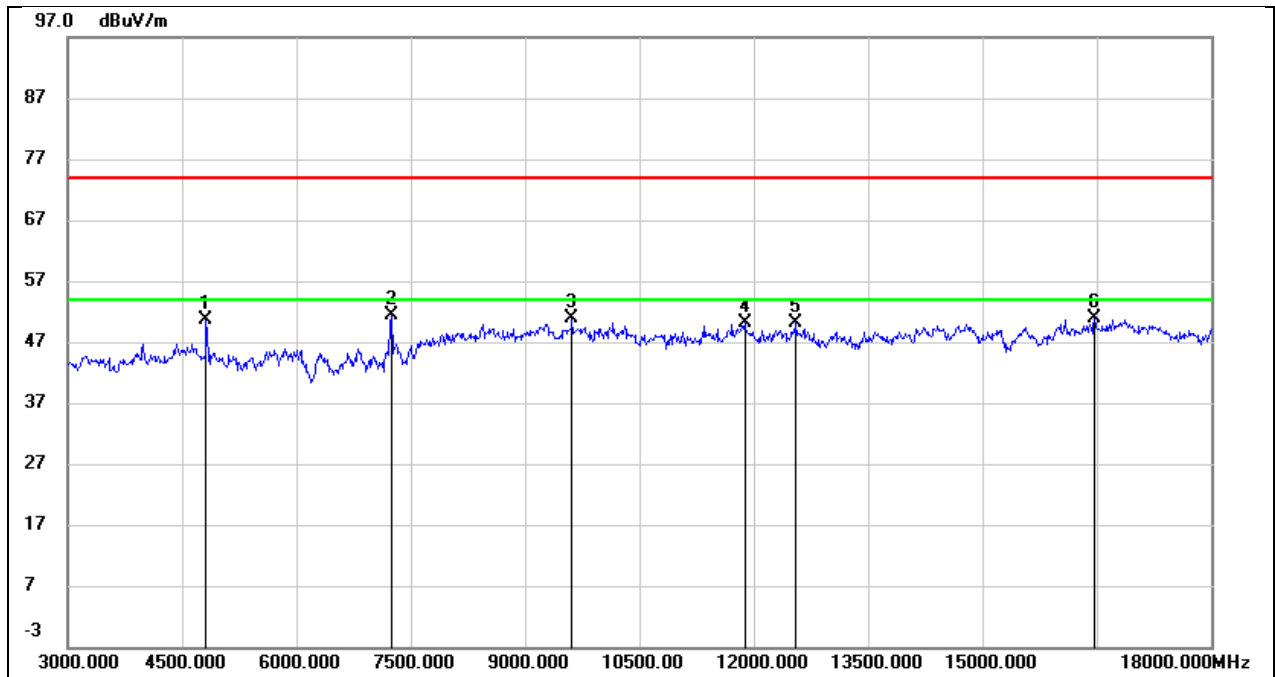
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	46.77	2.82	49.59	74.00	-24.41	peak
2	8565.000	40.25	9.34	49.59	74.00	-24.41	peak
3	9600.000	38.09	11.75	49.84	74.00	-24.16	peak
4	12555.000	33.68	17.19	50.87	74.00	-23.13	peak
5	14685.000	30.39	20.38	50.77	74.00	-23.23	peak
6	16935.000	27.01	23.91	50.92	74.00	-23.08	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



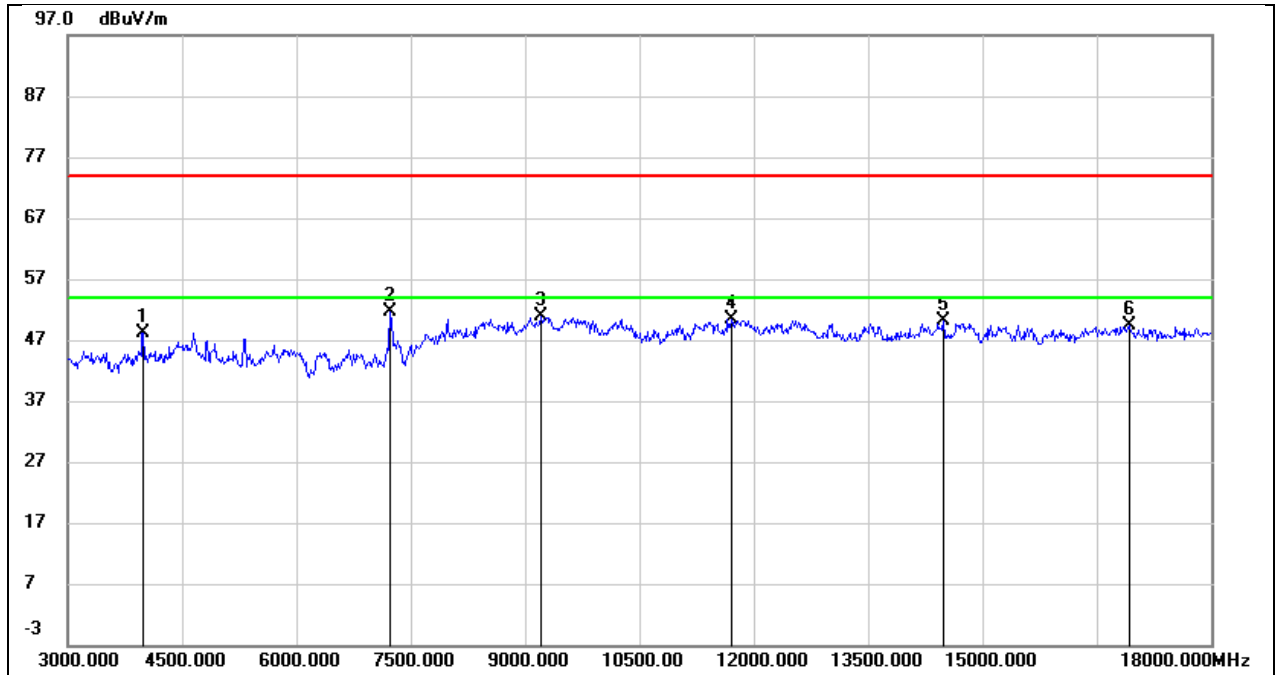
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	47.17	0.68	47.85	74.00	-26.15	peak
2	7965.000	42.87	7.39	50.26	74.00	-23.74	peak
3	9270.000	38.96	10.65	49.61	74.00	-24.39	peak
4	11790.000	33.28	16.51	49.79	74.00	-24.21	peak
5	14445.000	29.58	20.47	50.05	74.00	-23.95	peak
6	16800.000	26.80	23.95	50.75	74.00	-23.25	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



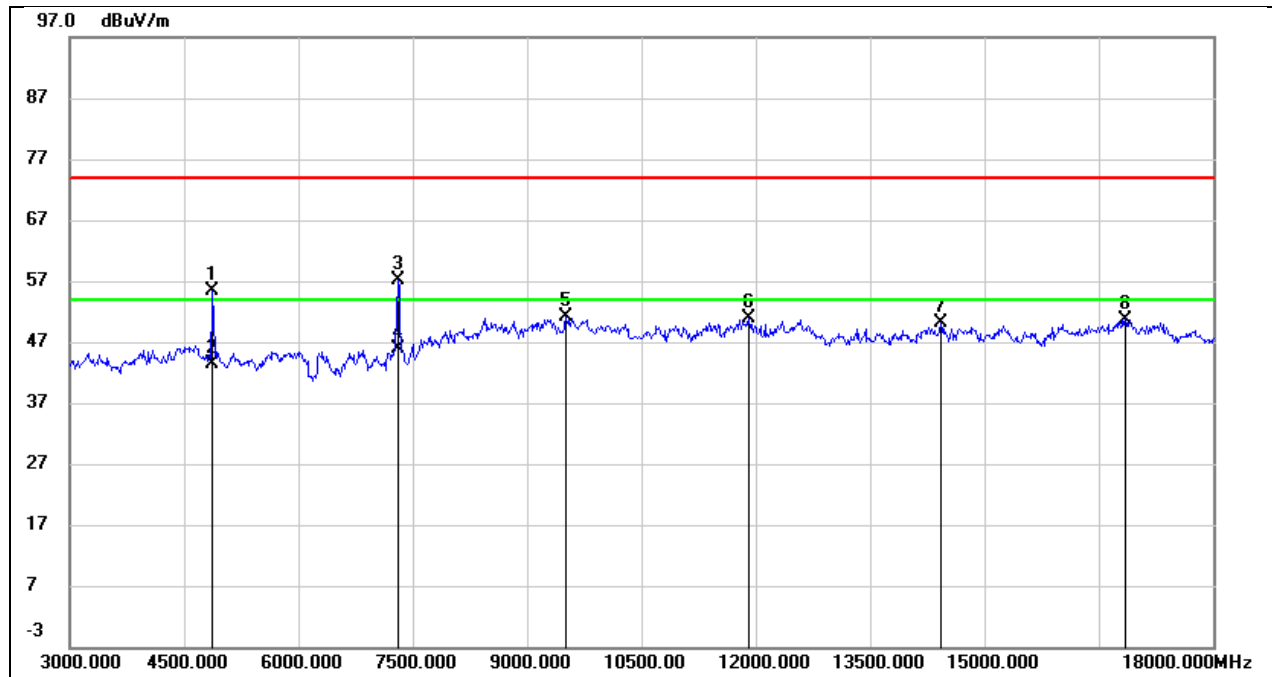
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	47.86	2.77	50.63	74.00	-23.37	peak
2	7245.000	44.56	6.81	51.37	74.00	-22.63	peak
3	9615.000	39.12	11.79	50.91	74.00	-23.09	peak
4	11880.000	33.33	16.69	50.02	74.00	-23.98	peak
5	12555.000	32.89	17.19	50.08	74.00	-23.92	peak
6	16470.000	27.27	23.50	50.77	74.00	-23.23	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



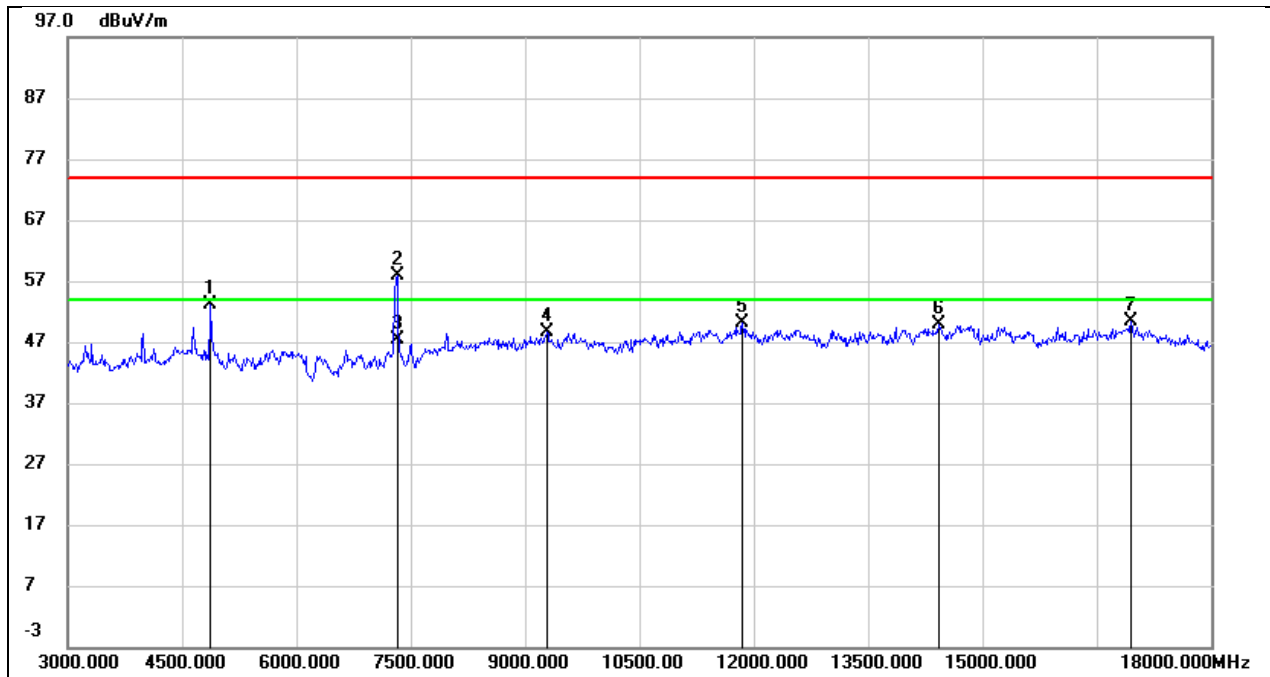
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	47.52	0.71	48.23	74.00	-25.77	peak
2	7230.000	44.92	6.80	51.72	74.00	-22.28	peak
3	9210.000	40.37	10.49	50.86	74.00	-23.14	peak
4	11700.000	34.17	16.28	50.45	74.00	-23.55	peak
5	14490.000	29.56	20.48	50.04	74.00	-23.96	peak
6	16920.000	25.55	23.91	49.46	74.00	-24.54	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



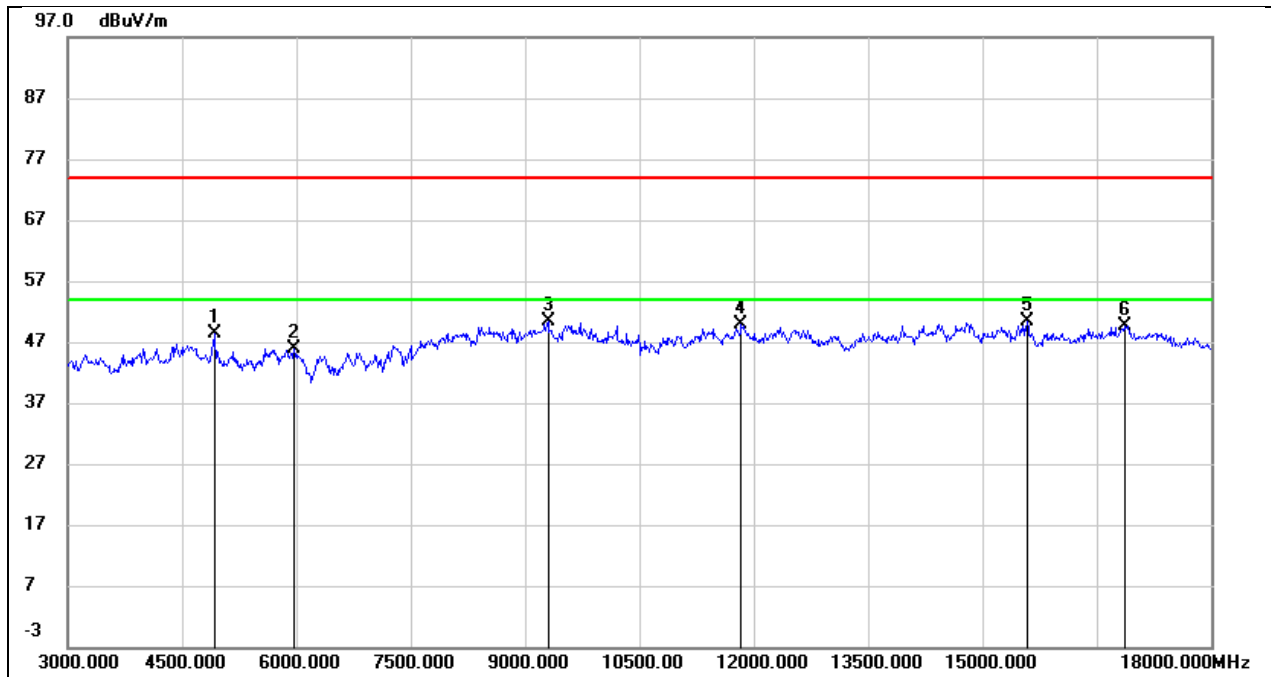
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	52.50	2.80	55.30	74.00	-18.70	peak
2	4875.000	40.46	2.80	43.26	54.00	-10.74	AVG
3	7305.000	50.32	6.82	57.14	74.00	-16.86	peak
4	7305.000	39.11	6.82	45.93	54.00	-8.07	AVG
5	9510.000	39.89	11.35	51.24	74.00	-22.76	peak
6	11910.000	34.10	16.74	50.84	74.00	-23.16	peak
7	14430.000	29.59	20.47	50.06	74.00	-23.94	peak
8	16845.000	26.81	23.94	50.75	74.00	-23.25	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



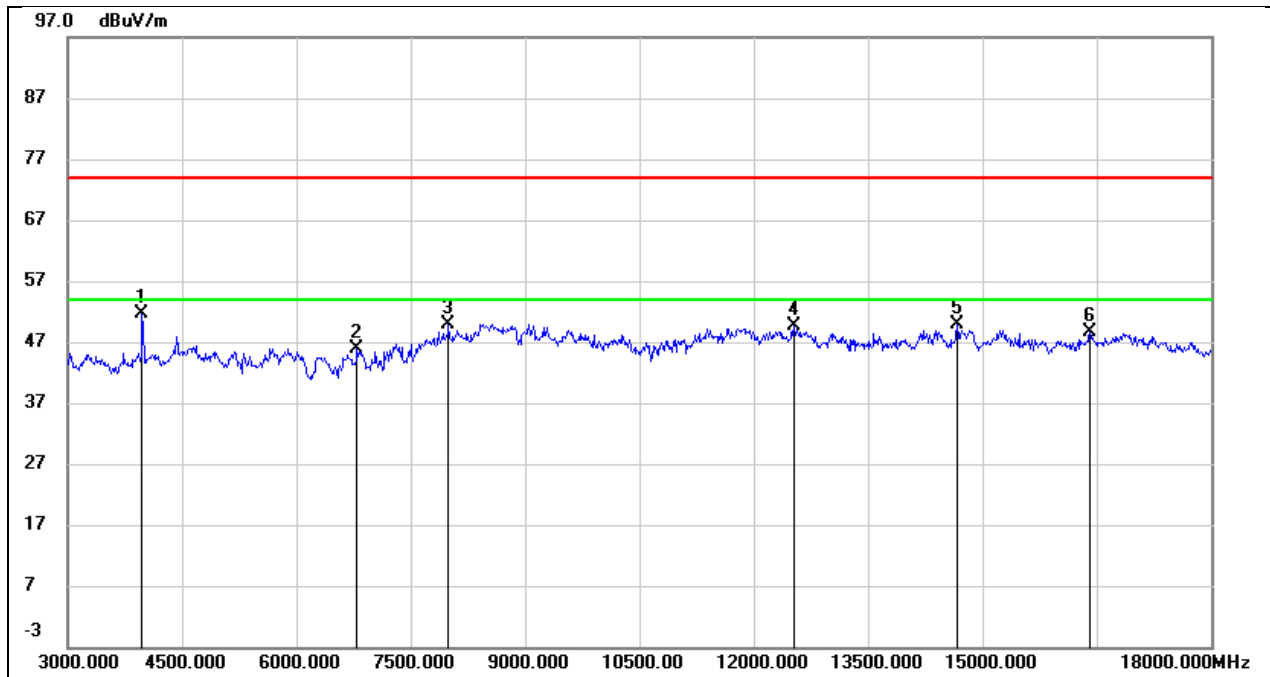
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	50.21	2.80	53.01	74.00	-20.99	peak
2	7320.000	51.04	6.83	57.87	74.00	-16.13	peak
3	7320.000	40.48	6.83	47.31	54.00	-6.69	AVG
4	9285.000	37.82	10.69	48.51	74.00	-25.49	peak
5	11850.000	33.44	16.63	50.07	74.00	-23.93	peak
6	14430.000	29.37	20.47	49.84	74.00	-24.16	peak
7	16950.000	26.59	23.90	50.49	74.00	-23.51	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	45.54	2.82	48.36	74.00	-25.64	peak
2	5970.000	41.39	4.38	45.77	74.00	-28.23	peak
3	9300.000	39.69	10.74	50.43	74.00	-23.57	peak
4	11835.000	33.39	16.60	49.99	74.00	-24.01	peak
5	15585.000	29.02	21.39	50.41	74.00	-23.59	peak
6	16860.000	25.73	23.93	49.66	74.00	-24.34	peak

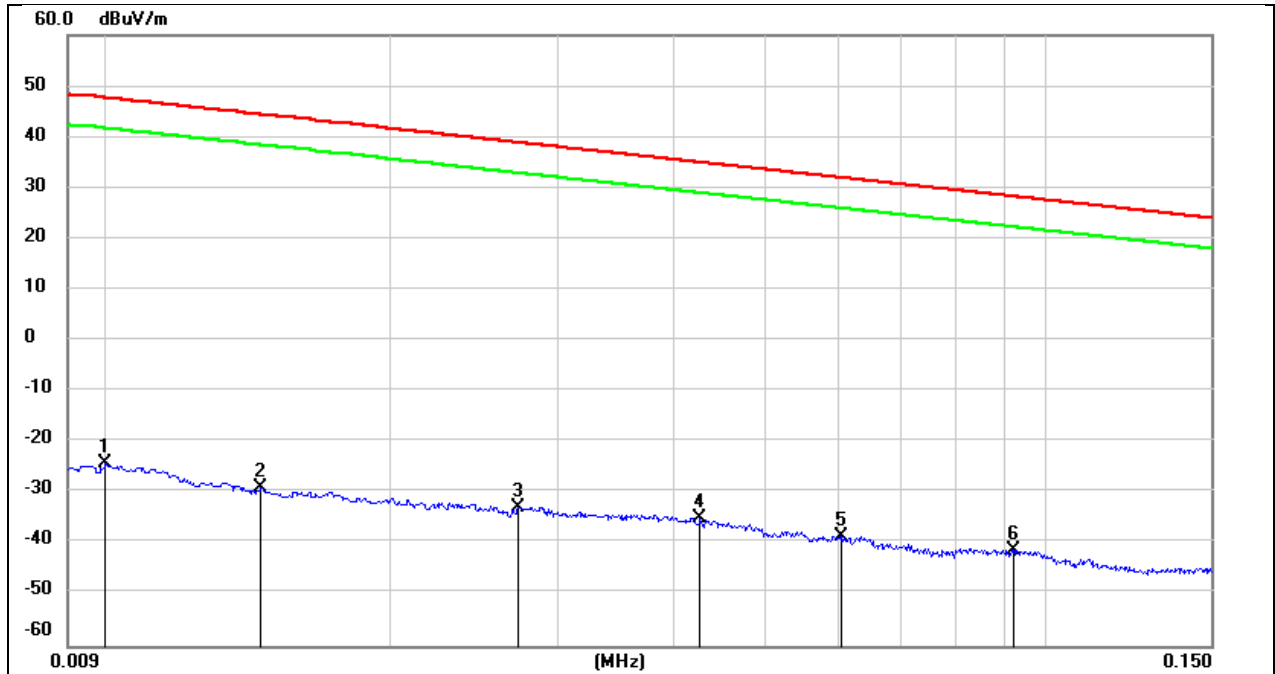
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	51.01	0.68	51.69	74.00	-22.31	peak
2	6795.000	39.61	6.25	45.86	74.00	-28.14	peak
3	7995.000	42.53	7.43	49.96	74.00	-24.04	peak
4	12525.000	32.35	17.25	49.60	74.00	-24.40	peak
5	14670.000	29.45	20.39	49.84	74.00	-24.16	peak
6	16410.000	25.30	23.41	48.71	74.00	-25.29	peak

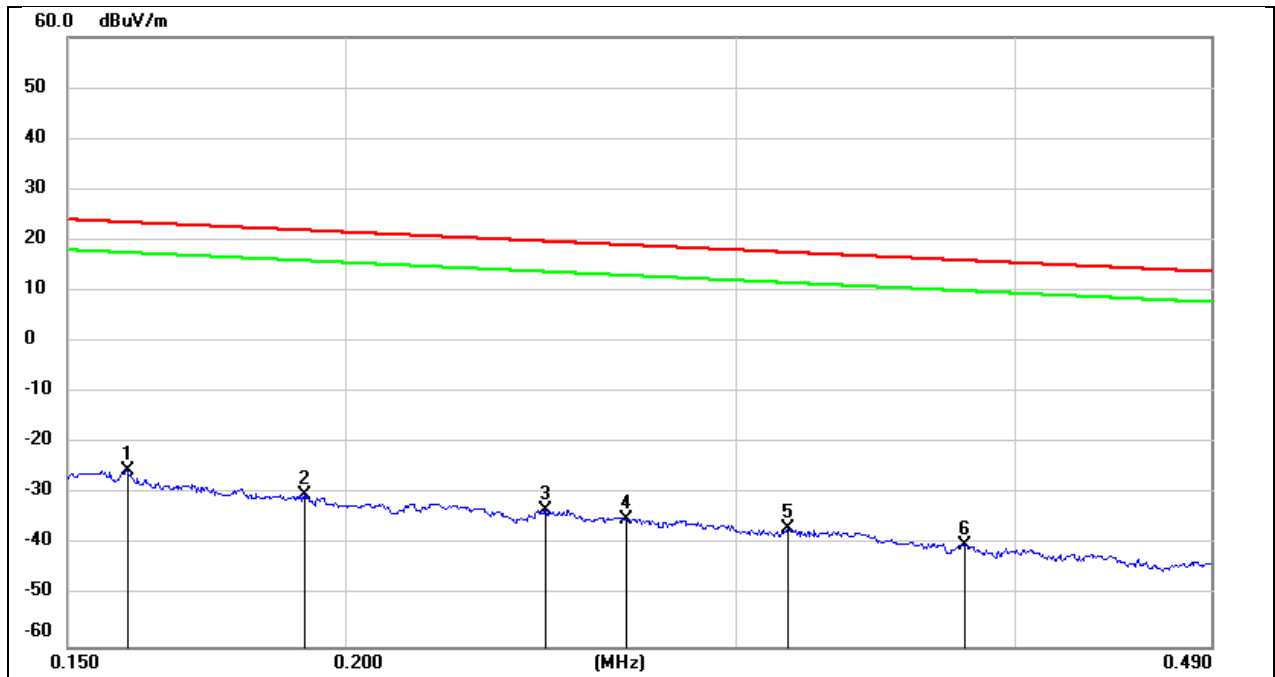
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



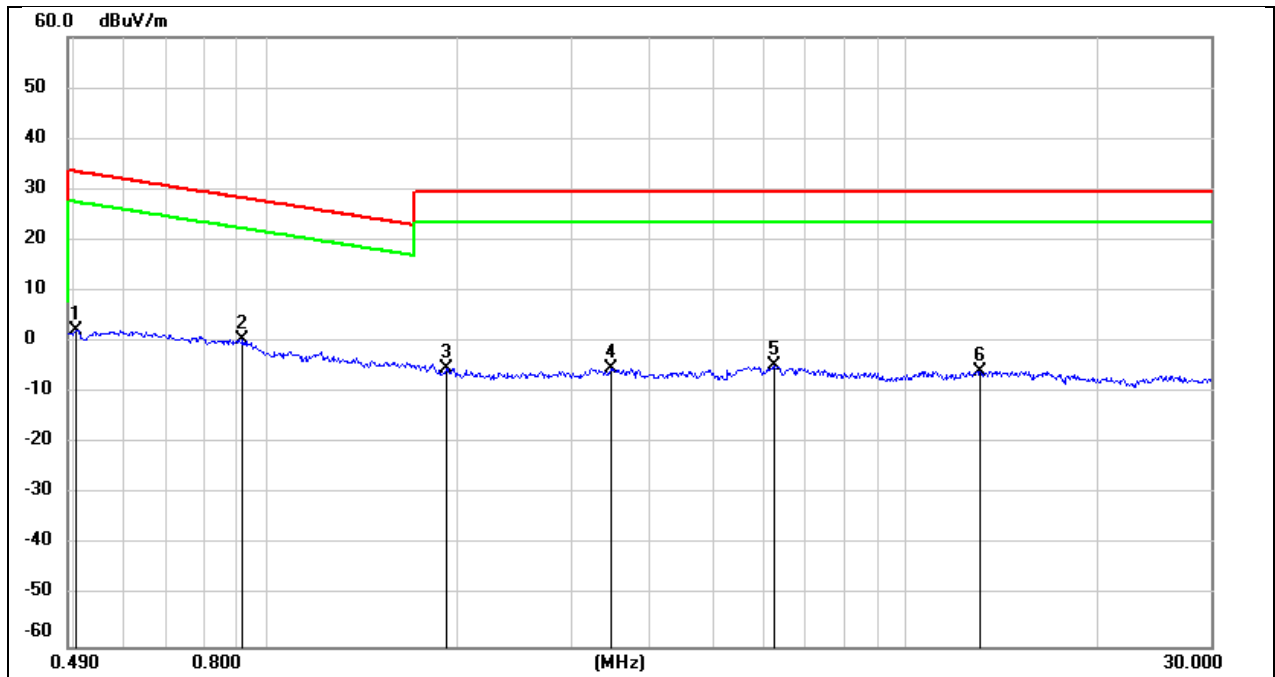
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	77.22	-101.40	-24.18	47.60	-71.78	peak
2	0.0145	72.55	-101.38	-28.83	44.37	-73.20	peak
3	0.0273	68.49	-101.38	-32.89	38.88	-71.77	peak
4	0.0427	66.64	-101.45	-34.81	34.99	-69.80	peak
5	0.0604	62.92	-101.52	-38.60	31.98	-70.58	peak
6	0.0922	60.51	-101.74	-41.23	28.31	-69.54	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1595	76.36	-101.65	-25.29	23.55	-48.84	peak
2	0.1917	71.54	-101.70	-30.16	21.95	-52.11	peak
3	0.2462	68.77	-101.80	-33.03	19.78	-52.81	peak
4	0.2676	67.01	-101.82	-34.81	19.05	-53.86	peak
5	0.3163	65.20	-101.87	-36.67	17.60	-54.27	peak
6	0.3800	62.02	-101.94	-39.92	16.01	-55.93	peak

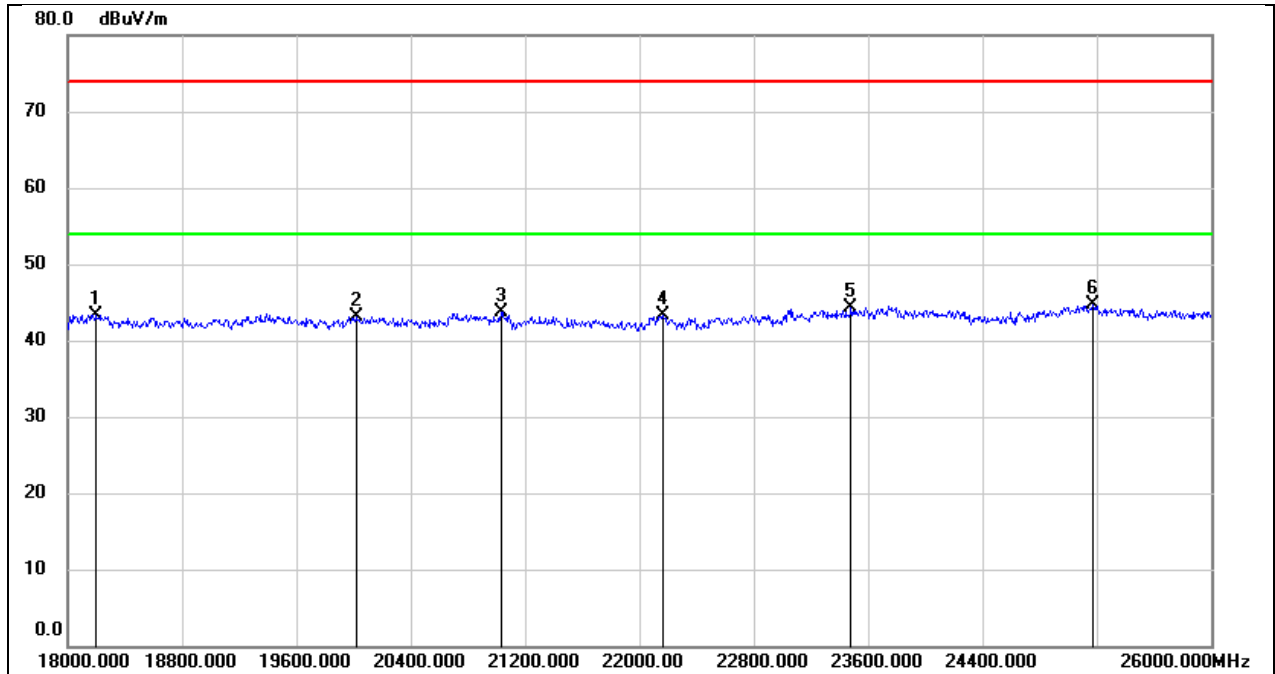
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5039	64.43	-62.07	2.36	33.56	-31.20	peak
2	0.9193	62.54	-62.22	0.32	28.33	-28.01	peak
3	1.9128	56.73	-61.87	-5.14	29.54	-34.68	peak
4	3.4704	56.35	-61.46	-5.11	29.54	-34.65	peak
5	6.2445	56.63	-61.32	-4.69	29.54	-34.23	peak
6	13.0907	55.13	-60.93	-5.80	29.54	-35.34	peak

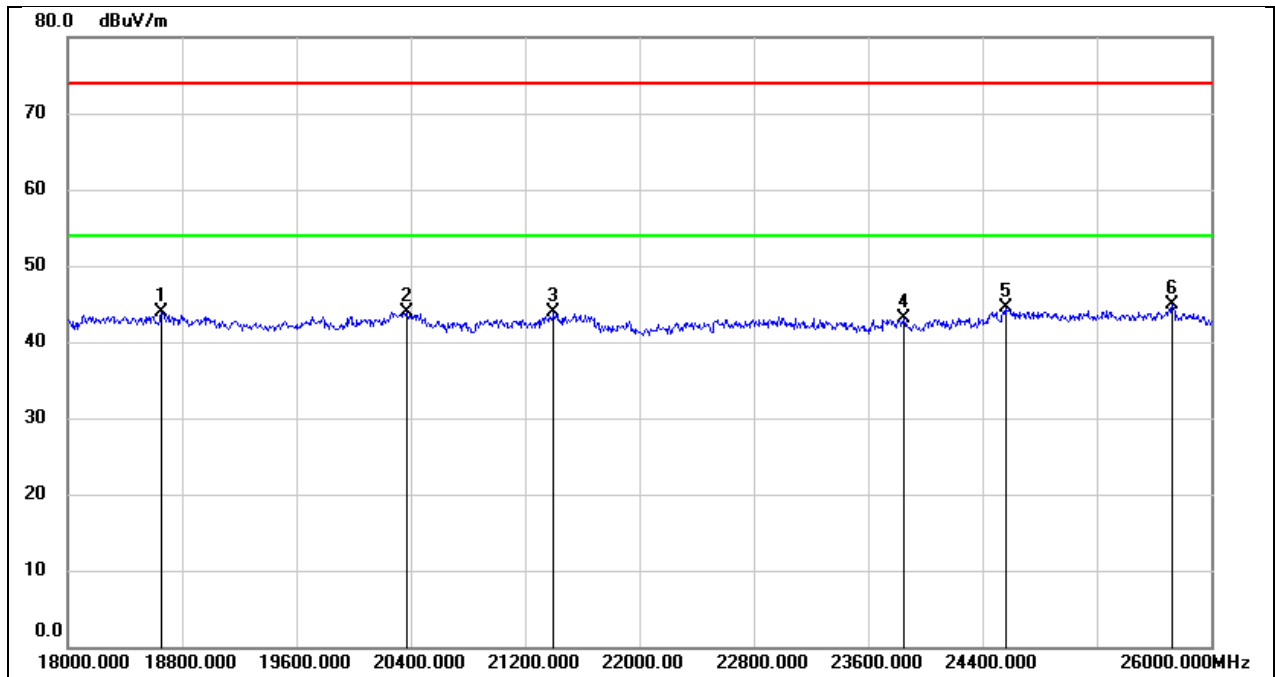
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18200.000	48.79	-5.52	43.27	74.00	-30.73	peak
2	20016.000	48.56	-5.47	43.09	74.00	-30.91	peak
3	21032.000	48.65	-4.87	43.78	74.00	-30.22	peak
4	22160.000	47.58	-4.31	43.27	74.00	-30.73	peak
5	23480.000	47.54	-3.16	44.38	74.00	-29.62	peak
6	25168.000	46.44	-1.81	44.63	74.00	-29.37	peak

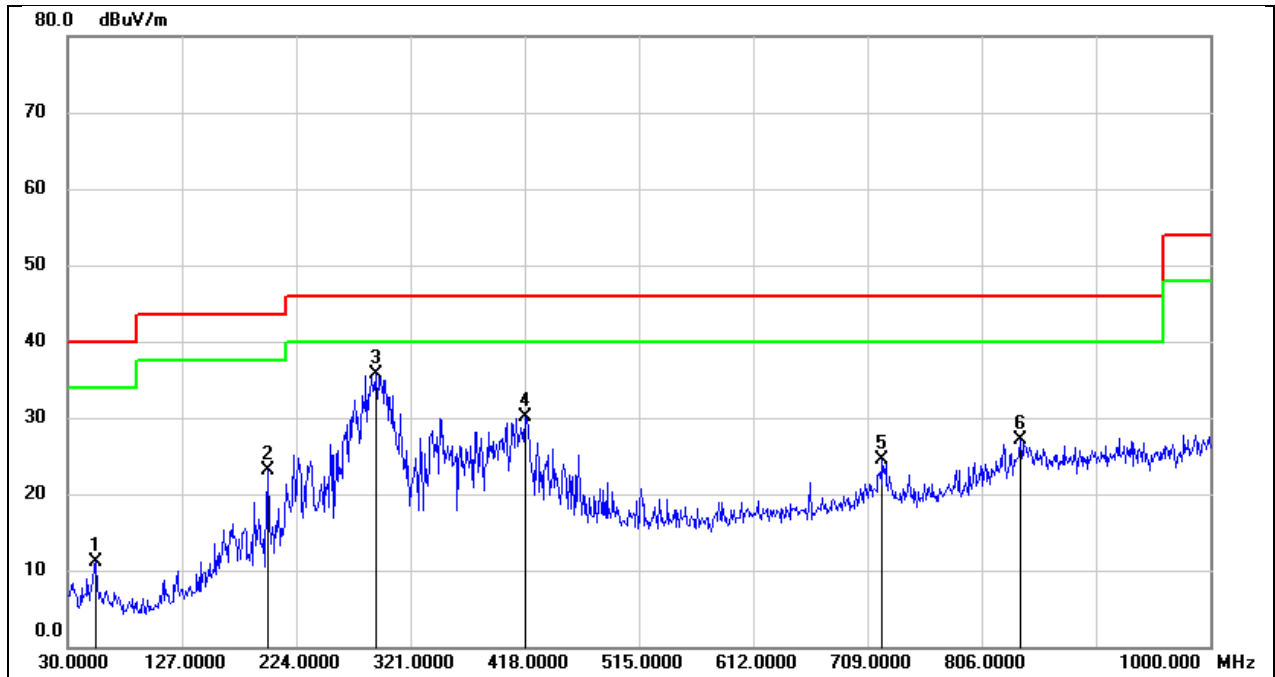
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18656.000	49.30	-5.36	43.94	74.00	-30.06	peak
2	20376.000	49.41	-5.48	43.93	74.00	-30.07	peak
3	21400.000	48.54	-4.72	43.82	74.00	-30.18	peak
4	23848.000	46.18	-3.03	43.15	74.00	-30.85	peak
5	24560.000	46.79	-2.32	44.47	74.00	-29.53	peak
6	25728.000	45.61	-0.72	44.89	74.00	-29.11	peak

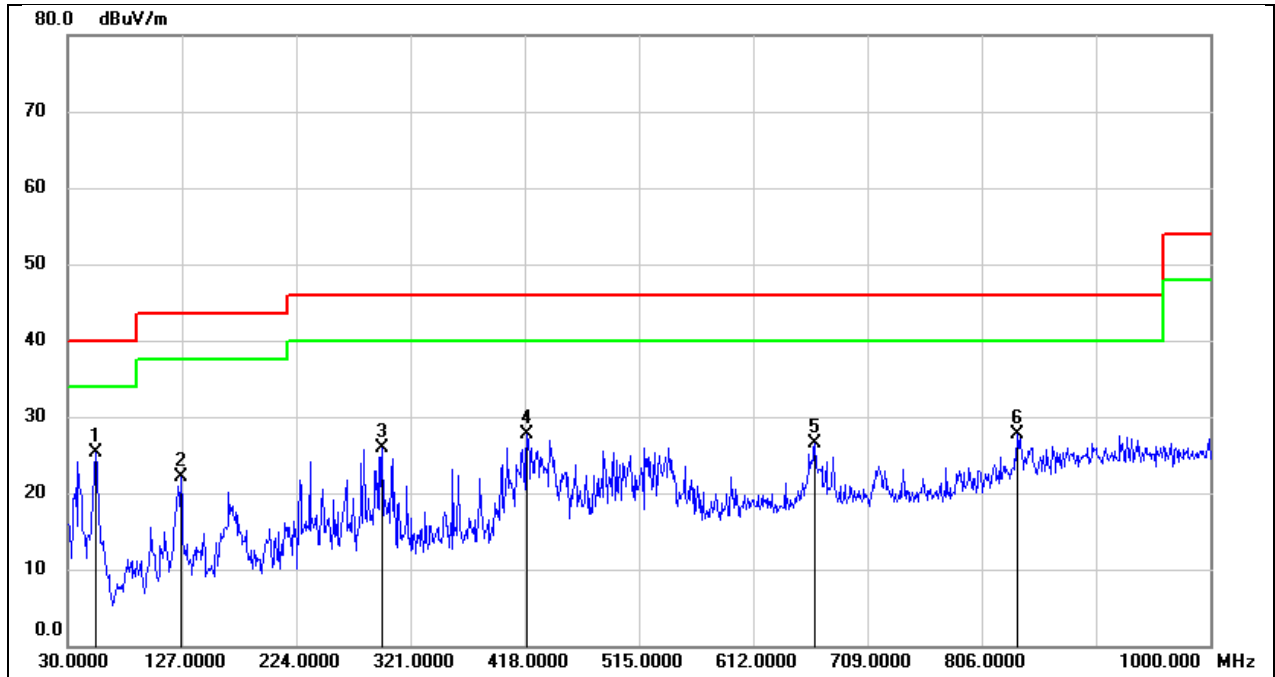
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.2800	26.11	-15.03	11.08	40.00	-28.92	QP
2	199.7500	35.36	-12.29	23.07	43.50	-20.43	QP
3	291.9000	47.64	-12.00	35.64	46.00	-10.36	QP
4	418.0000	39.20	-9.07	30.13	46.00	-15.87	QP
5	721.6100	28.43	-3.93	24.50	46.00	-21.50	QP
6	838.9800	28.68	-1.59	27.09	46.00	-18.91	QP

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.2800	40.37	-15.03	25.34	40.00	-14.66	QP
2	126.0300	36.57	-14.52	22.05	43.50	-21.45	QP
3	296.7500	37.54	-11.71	25.83	46.00	-20.17	QP
4	419.9400	36.66	-9.02	27.64	46.00	-18.36	QP
5	664.3800	31.69	-5.19	26.50	46.00	-19.50	QP
6	836.0700	29.44	-1.66	27.78	46.00	-18.22	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).

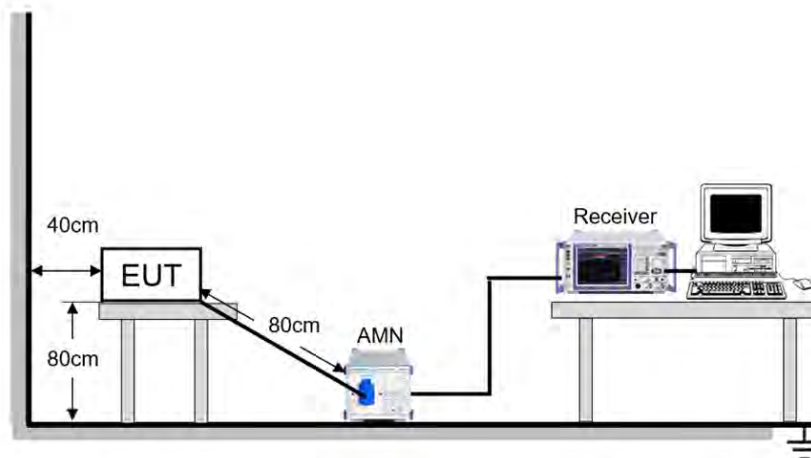
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

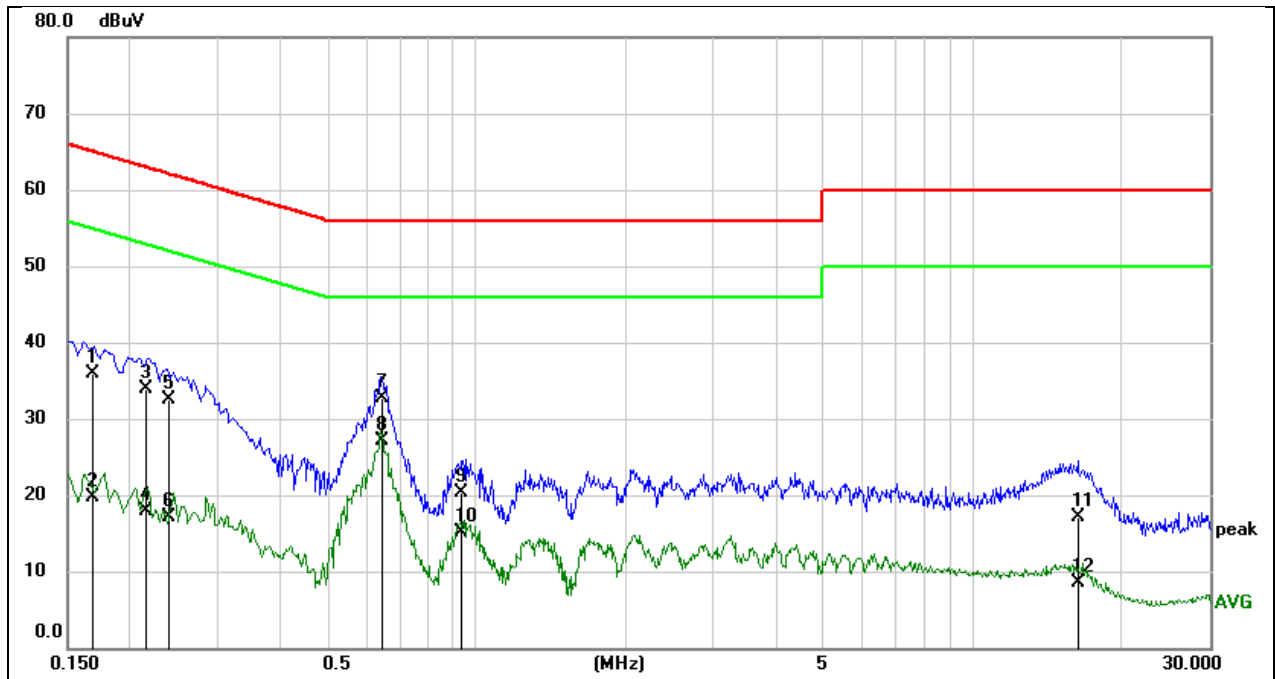
Temperature	24.1°C	Relative Humidity	54.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

TEST DATE / ENGINEER

Test Date	May 27, 2025	Test By	Deacon Tan
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TEST RESULTS

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Line:	Line		



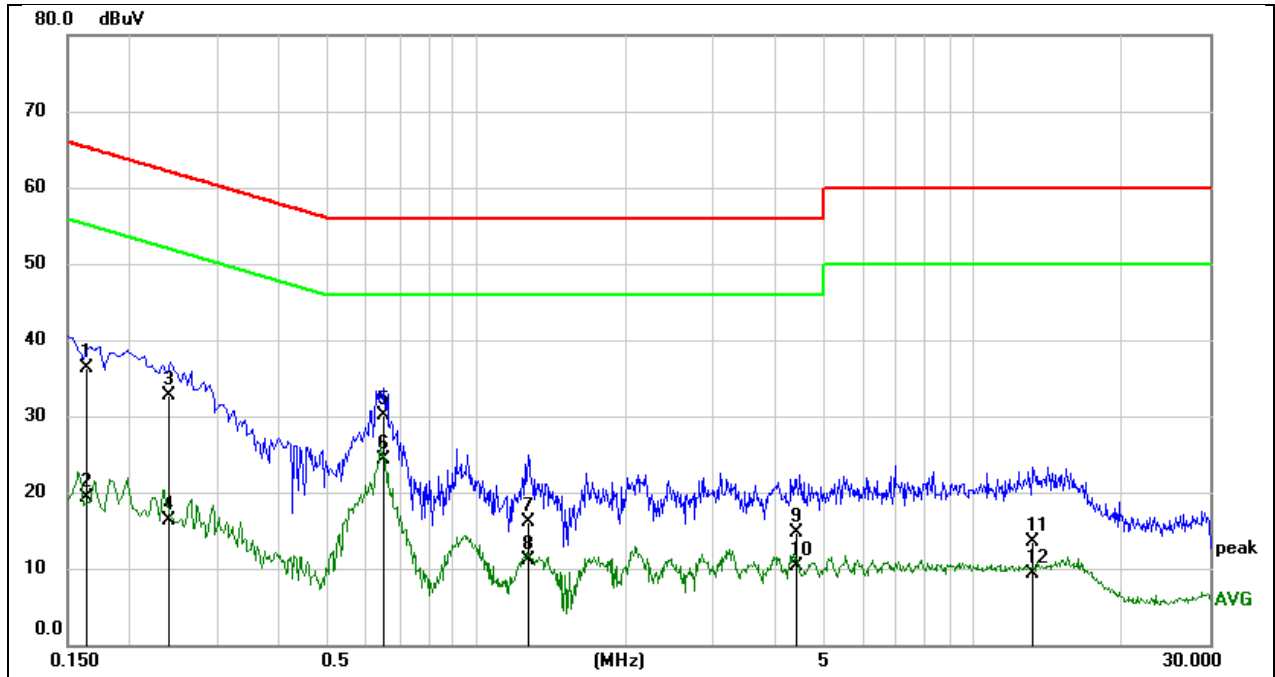
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1685	26.12	9.70	35.82	65.03	-29.21	QP
2	0.1685	9.97	9.70	19.67	55.03	-35.36	AVG
3	0.2141	24.17	9.64	33.81	63.04	-29.23	QP
4	0.2141	8.33	9.64	17.97	53.04	-35.07	AVG
5	0.2418	22.78	9.64	32.42	62.03	-29.61	QP
6	0.2418	7.46	9.64	17.10	52.03	-34.93	AVG
7	0.6478	23.14	9.63	32.77	56.00	-23.23	QP
8	0.6478	17.51	9.63	27.14	46.00	-18.86	AVG
9	0.9408	10.70	9.63	20.33	56.00	-35.67	QP
10	0.9408	5.52	9.63	15.15	46.00	-30.85	AVG
11	16.2486	7.30	9.74	17.04	60.00	-42.96	QP
12	16.2486	-1.27	9.74	8.47	50.00	-41.53	AVG

Note:

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

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

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1633	26.67	9.64	36.31	65.29	-28.98	QP
2	0.1633	9.61	9.64	19.25	55.29	-36.04	AVG
3	0.2389	23.07	9.64	32.71	62.13	-29.42	QP
4	0.2389	6.70	9.64	16.34	52.13	-35.79	AVG
5	0.6513	20.43	9.63	30.06	56.00	-25.94	QP
6	0.6513	14.76	9.63	24.39	46.00	-21.61	AVG
7	1.2793	6.53	9.63	16.16	56.00	-39.84	QP
8	1.2793	1.48	9.63	11.11	46.00	-34.89	AVG
9	4.4150	5.06	9.64	14.70	56.00	-41.30	QP
10	4.4150	0.61	9.64	10.25	46.00	-35.75	AVG
11	13.2642	3.73	9.74	13.47	60.00	-46.53	QP
12	13.2642	-0.51	9.74	9.23	50.00	-40.77	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	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.440	2416.480	≥ 0.5	PASS
		2437	9.600	2432.400	2442.000	≥ 0.5	PASS
		2462	9.040	2457.440	2466.480	≥ 0.5	PASS
11G	Ant1	2412	13.560	2406.560	2420.120	≥ 0.5	PASS
		2437	13.560	2431.560	2445.120	≥ 0.5	PASS
		2462	13.440	2456.080	2469.520	≥ 0.5	PASS
11N20SISO	Ant1	2412	12.640	2406.840	2419.480	≥ 0.5	PASS
		2437	13.560	2431.560	2445.120	≥ 0.5	PASS
		2462	15.640	2454.440	2470.080	≥ 0.5	PASS

11.1.2. Test Graphs







11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

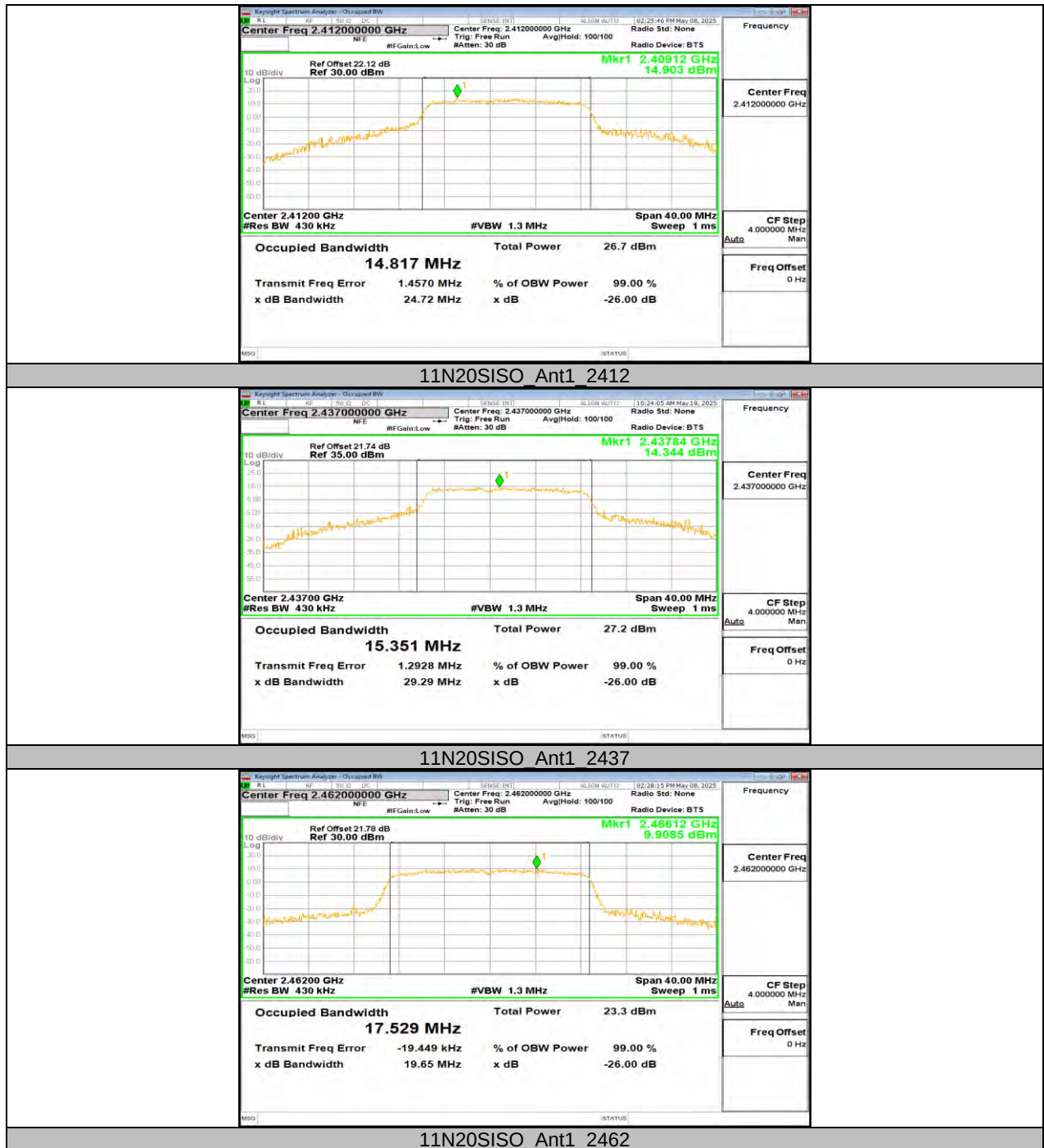
11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	14.354	2404.8116	2419.1656	PASS
		2437	15.971	2429.0982	2445.0692	PASS
		2462	14.618	2454.7435	2469.3615	PASS
11G	Ant1	2412	14.453	2405.9598	2420.4128	PASS
		2437	14.753	2430.8281	2445.5811	PASS
		2462	16.728	2453.5962	2470.3242	PASS
11N20SISO	Ant1	2412	14.817	2406.0485	2420.8655	PASS
		2437	15.351	2430.6173	2445.9683	PASS
		2462	17.529	2453.2161	2470.7451	PASS

11.2.2. Test Graphs







11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Peak Power Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	21.54	≤30.00	PASS
		2437	25.63	≤30.00	PASS
		2462	24.58	≤30.00	PASS
11G	Ant1	2412	26.80	≤30.00	PASS
		2437	27.10	≤30.00	PASS
		2462	25.94	≤30.00	PASS
11N20SISO	Ant1	2412	26.57	≤30.00	PASS
		2437	27.80	≤30.00	PASS
		2462	25.36	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	AVG Power Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	20.02	≤30.00	PASS
		2437	23.12	≤30.00	PASS
		2462	22.62	≤30.00	PASS
11G	Ant1	2412	21.16	≤30.00	PASS
		2437	25.29	≤30.00	PASS
		2462	18.73	≤30.00	PASS
11N20SISO	Ant1	2412	21.10	≤30.00	PASS
		2437	25.63	≤30.00	PASS
		2462	17.82	≤30.00	PASS

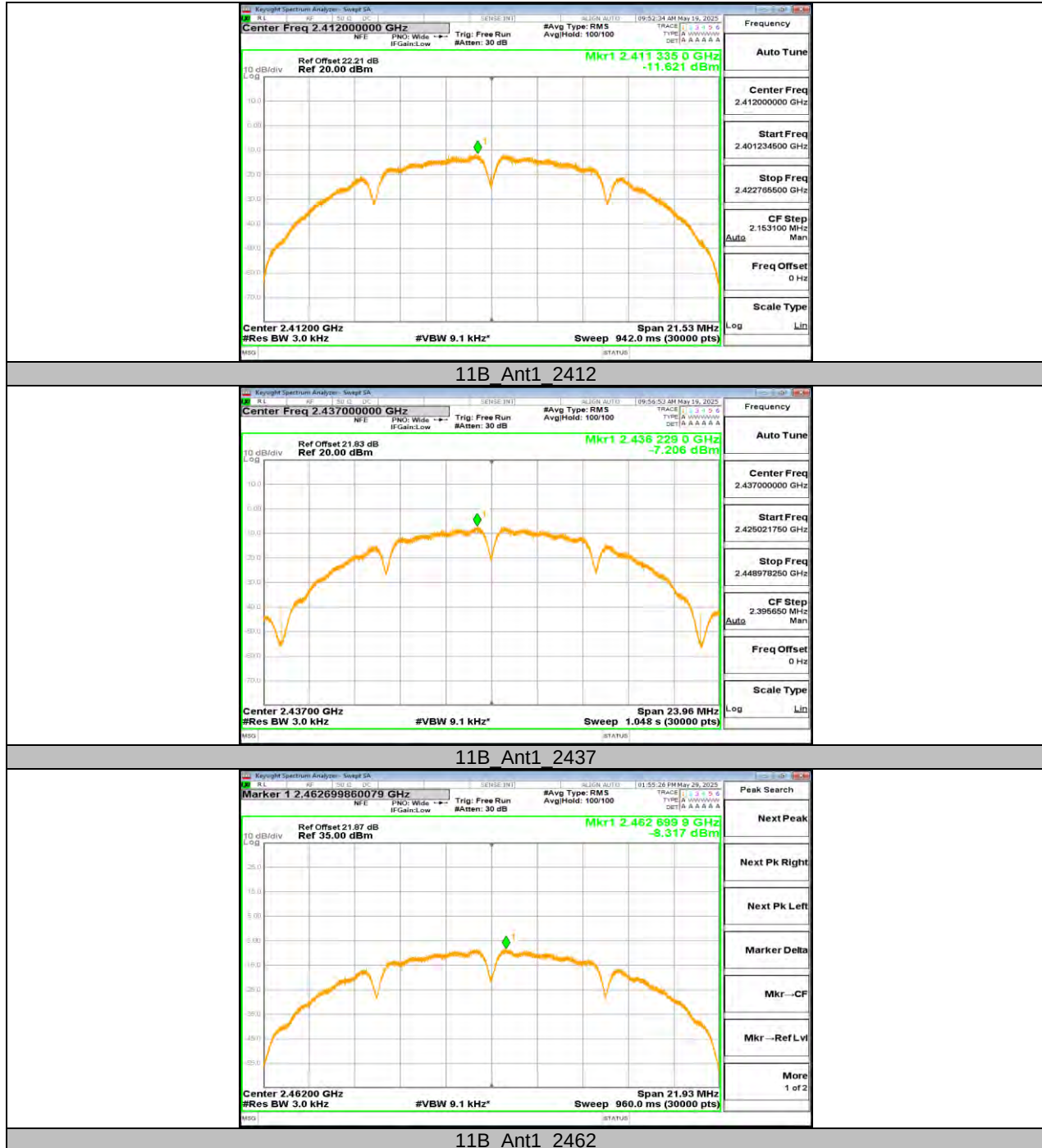
Note for average power: The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

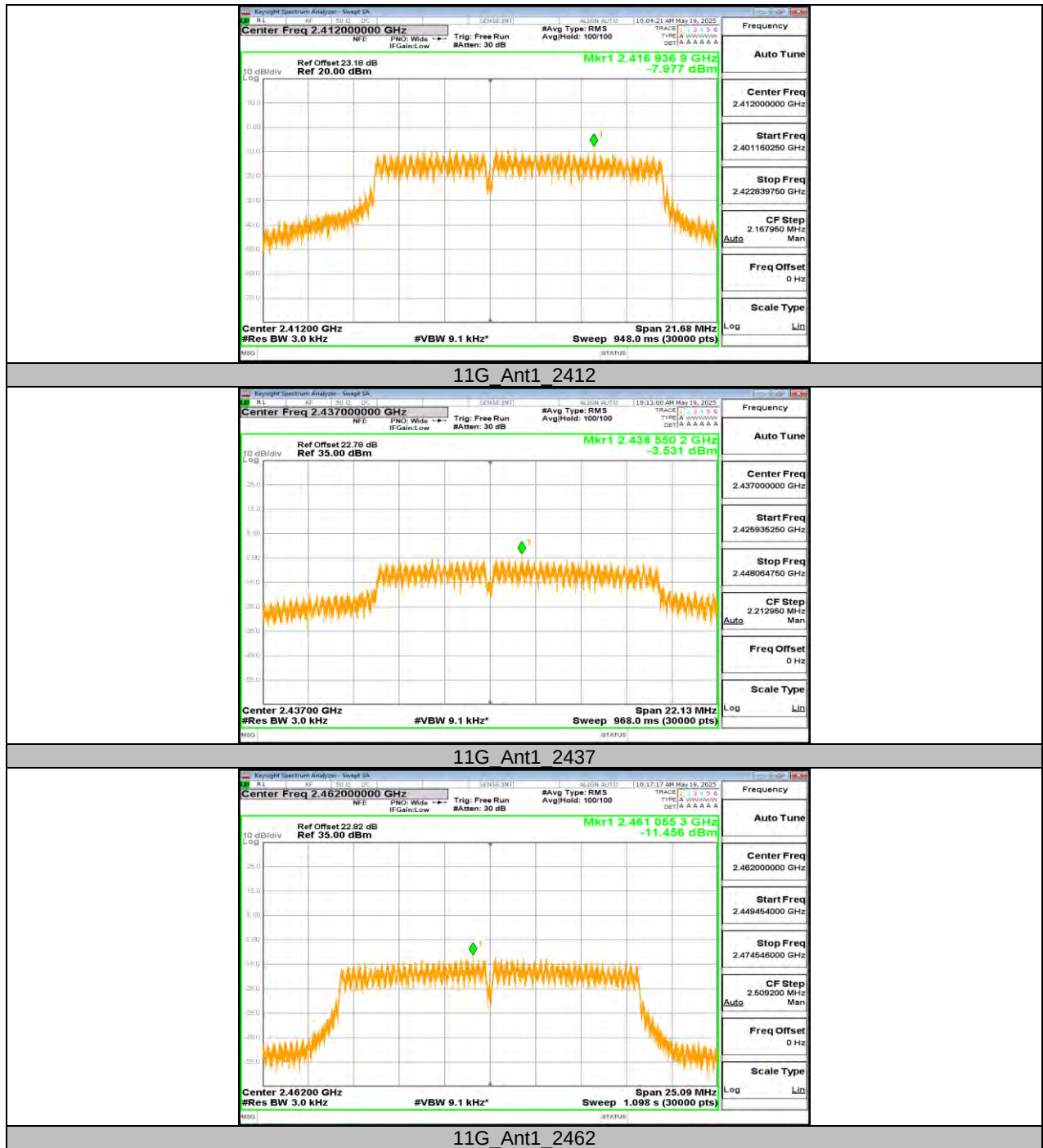
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY**11.4.1. Test Result**

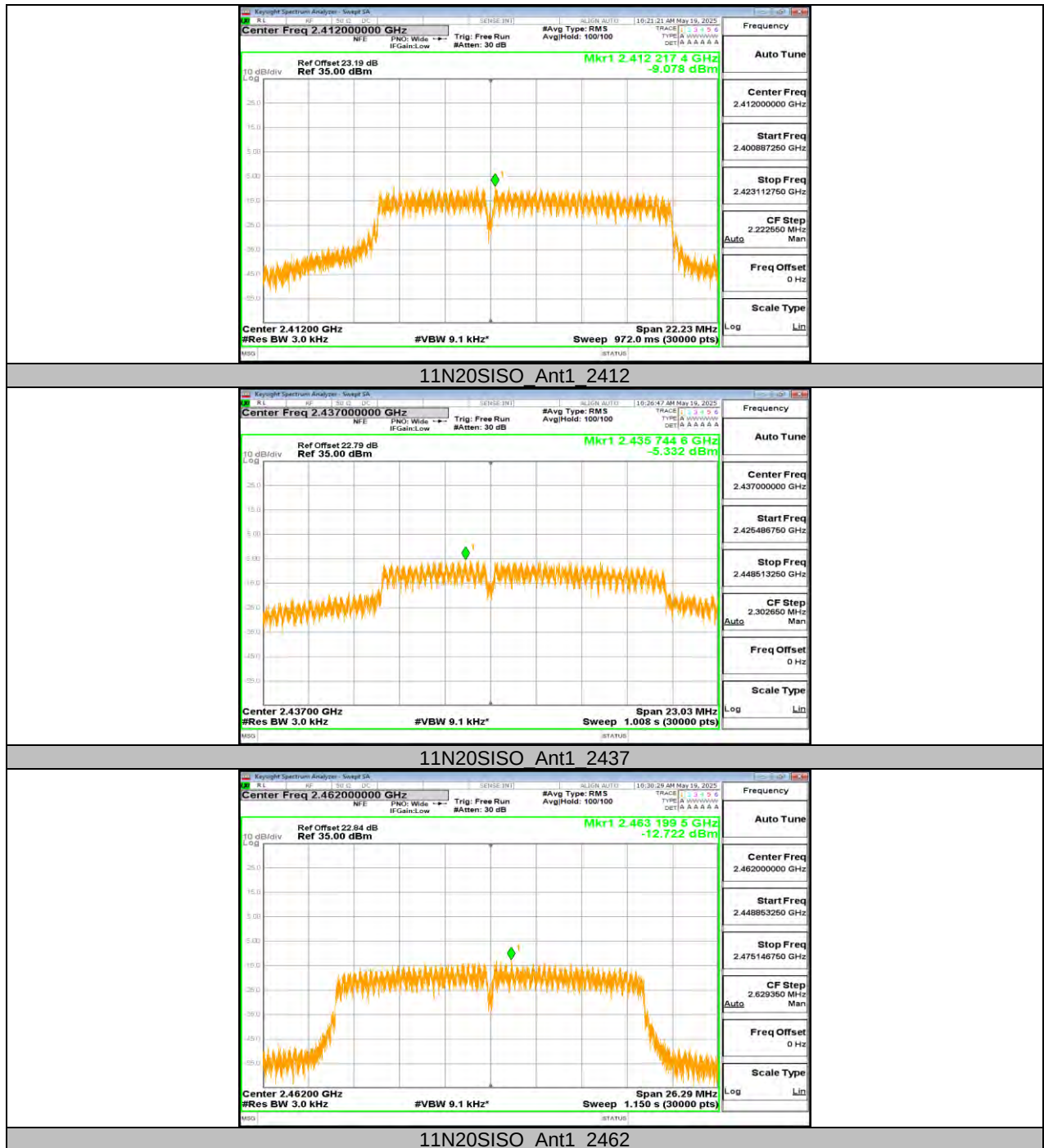
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.62	≤8.00	PASS
		2437	-7.21	≤8.00	PASS
		2462	-8.25	≤8.00	PASS
11G	Ant1	2412	-7.98	≤8.00	PASS
		2437	-3.53	≤8.00	PASS
		2462	-11.46	≤8.00	PASS
11N20SISO	Ant1	2412	-9.08	≤8.00	PASS
		2437	-5.33	≤8.00	PASS
		2462	-12.72	≤8.00	PASS

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

11.4.2. Test Graphs







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

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.28	-29.87	≤-18.72	PASS
		High	2462	11.76	-41.95	≤-18.24	PASS
11G	Ant1	Low	2412	10.06	-21	≤-19.94	PASS
		High	2462	7.80	-38.57	≤-22.2	PASS
11N20SISO	Ant1	Low	2412	11.02	-19.91	≤-18.98	PASS
		High	2462	6.37	-39.09	≤-23.63	PASS

11.5.2. Test Graphs





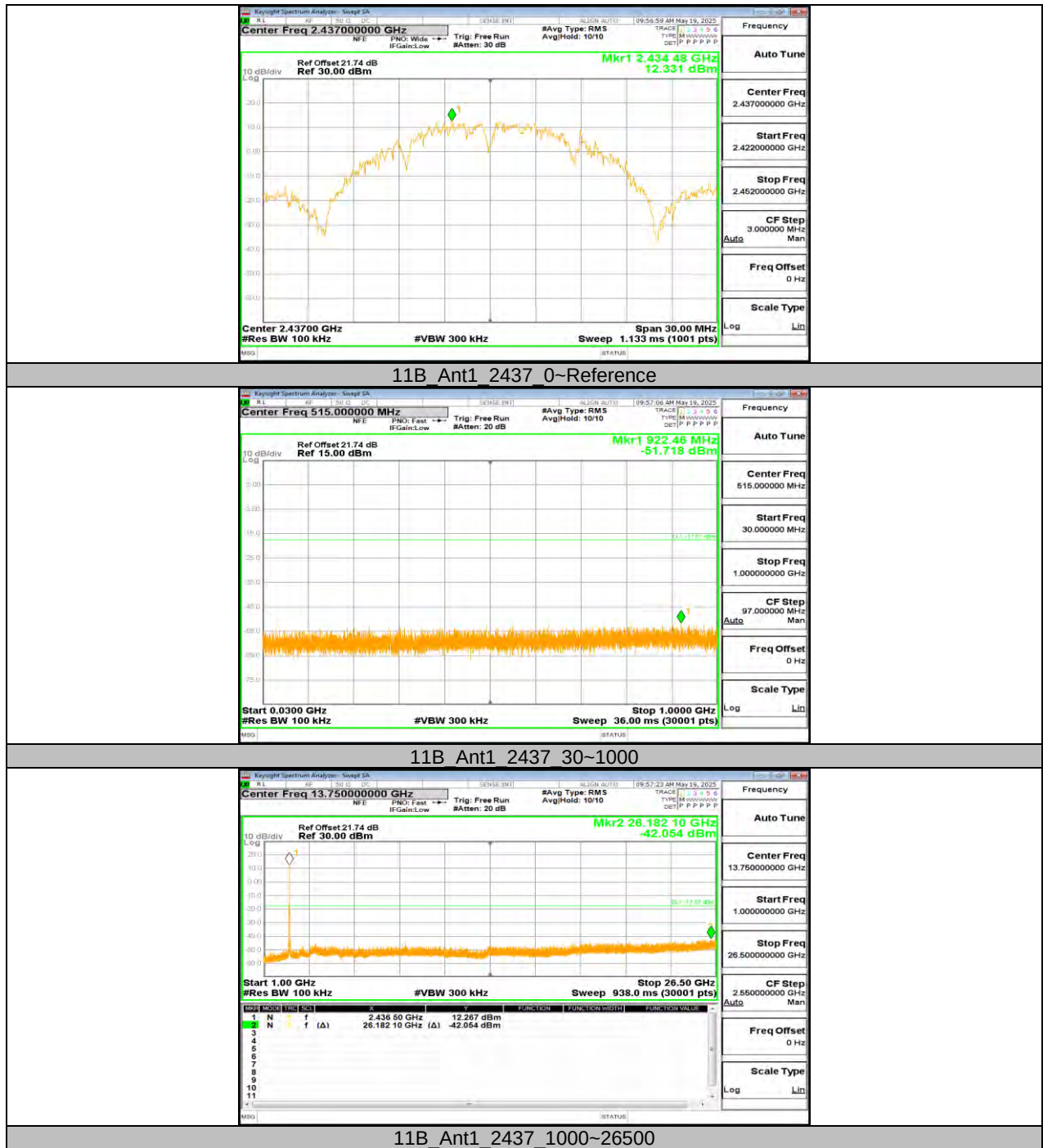
11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

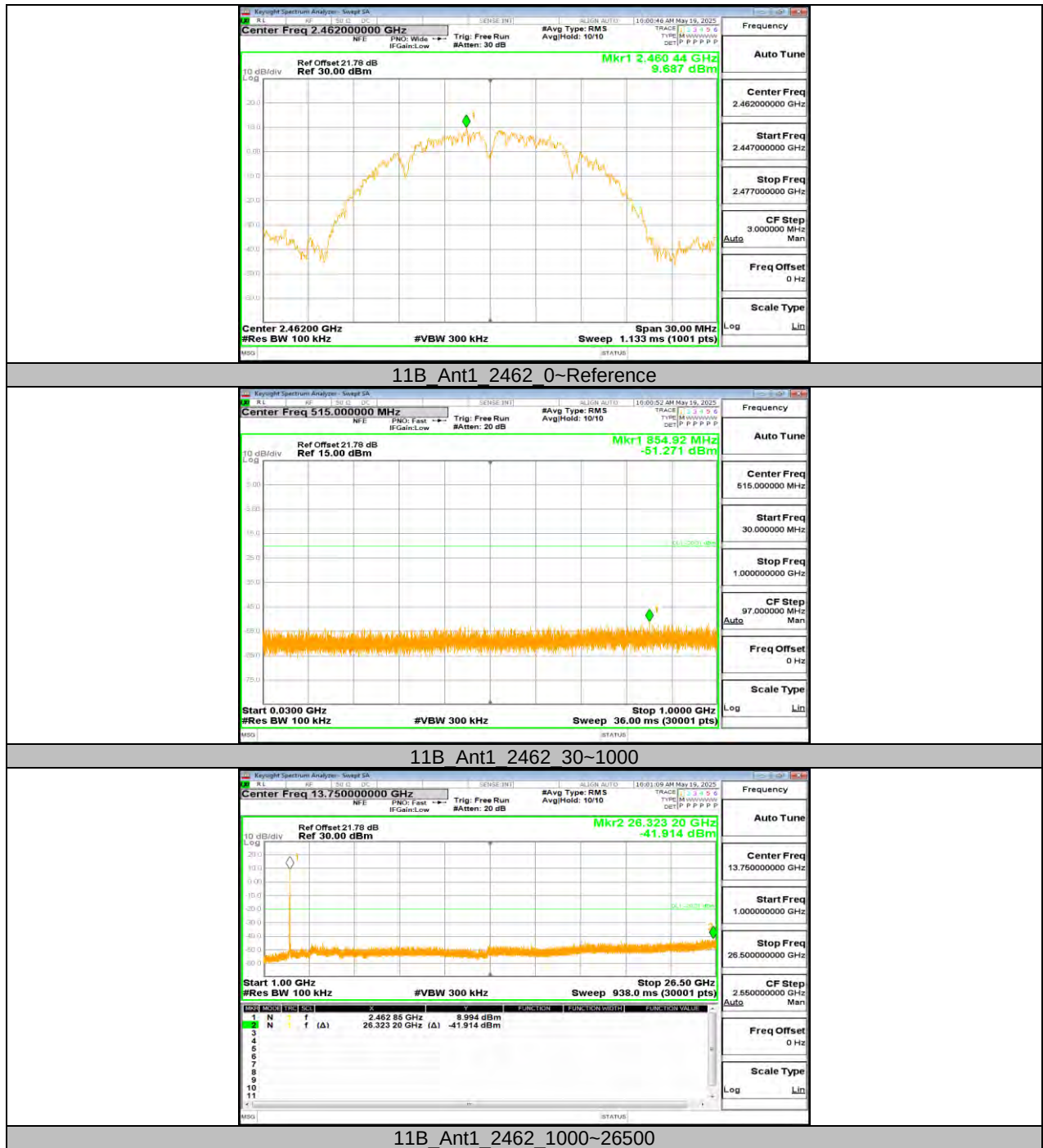
11.6.1. Test Result

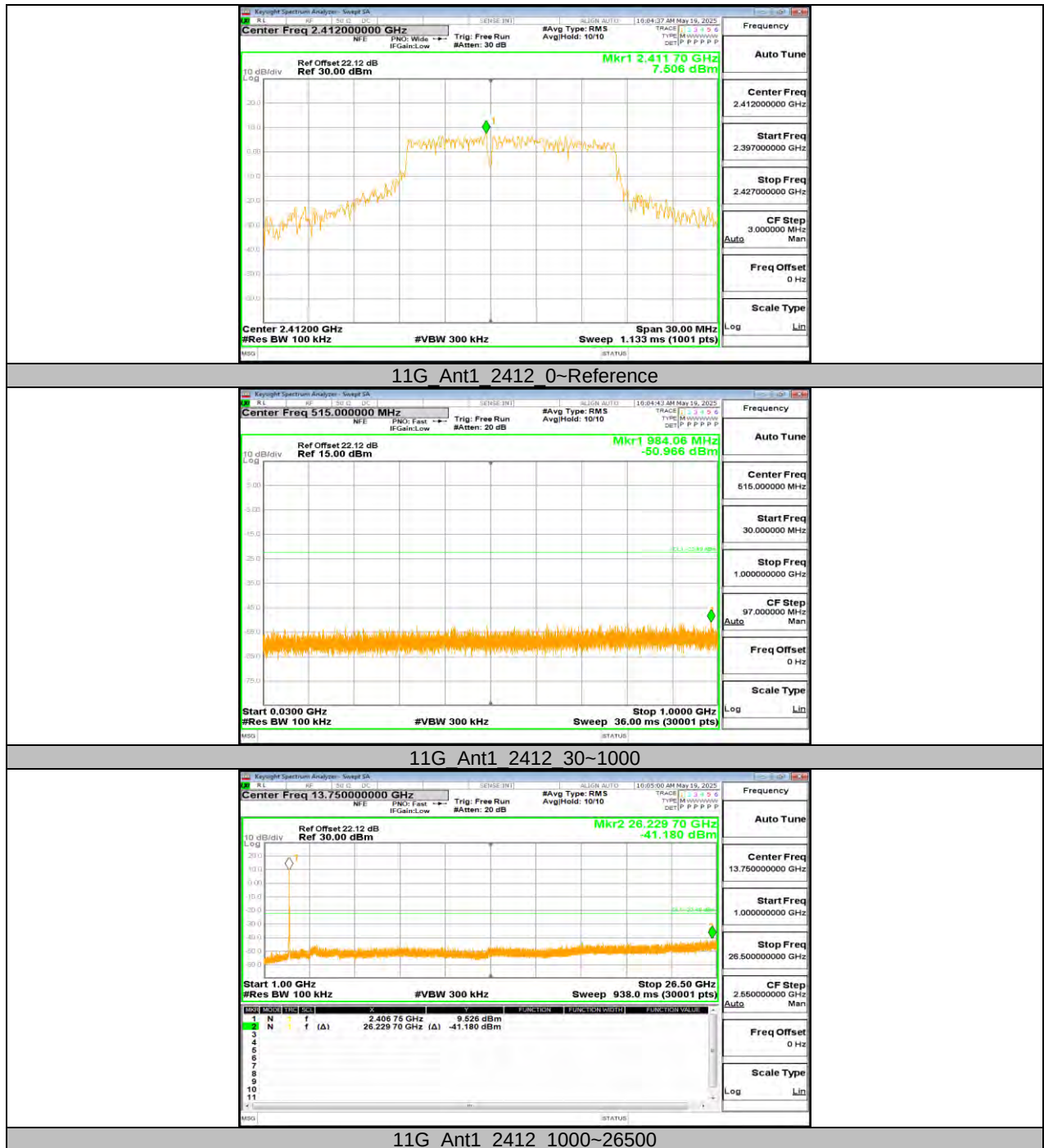
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.86	---	PASS
			30~1000	-51.01	≤ -20.14	PASS
			1000~26500	-41.48	≤ -20.14	PASS
		2437	Reference	12.33	---	PASS
			30~1000	-51.72	≤ -17.67	PASS
			1000~26500	-42.05	≤ -17.67	PASS
		2462	Reference	9.69	---	PASS
			30~1000	-51.27	≤ -20.31	PASS
			1000~26500	-41.91	≤ -20.31	PASS
11G	Ant1	2412	Reference	7.51	---	PASS
			30~1000	-50.97	≤ -22.49	PASS
			1000~26500	-41.18	≤ -22.49	PASS
		2437	Reference	11.77	---	PASS
			30~1000	-51.21	≤ -18.23	PASS
			1000~26500	-41.08	≤ -18.23	PASS
		2462	Reference	3.83	---	PASS
			30~1000	-50.97	≤ -26.17	PASS
			1000~26500	-41.93	≤ -26.17	PASS
11N20SISO	Ant1	2412	Reference	10.29	---	PASS
			30~1000	-49.14	≤ -19.71	PASS
			1000~26500	-41.73	≤ -19.71	PASS
		2437	Reference	11.69	---	PASS
			30~1000	-50.6	≤ -18.31	PASS
			1000~26500	-40.26	≤ -18.31	PASS
		2462	Reference	6.12	---	PASS
			30~1000	-51.1	≤ -23.88	PASS
			1000~26500	-40.73	≤ -23.88	PASS

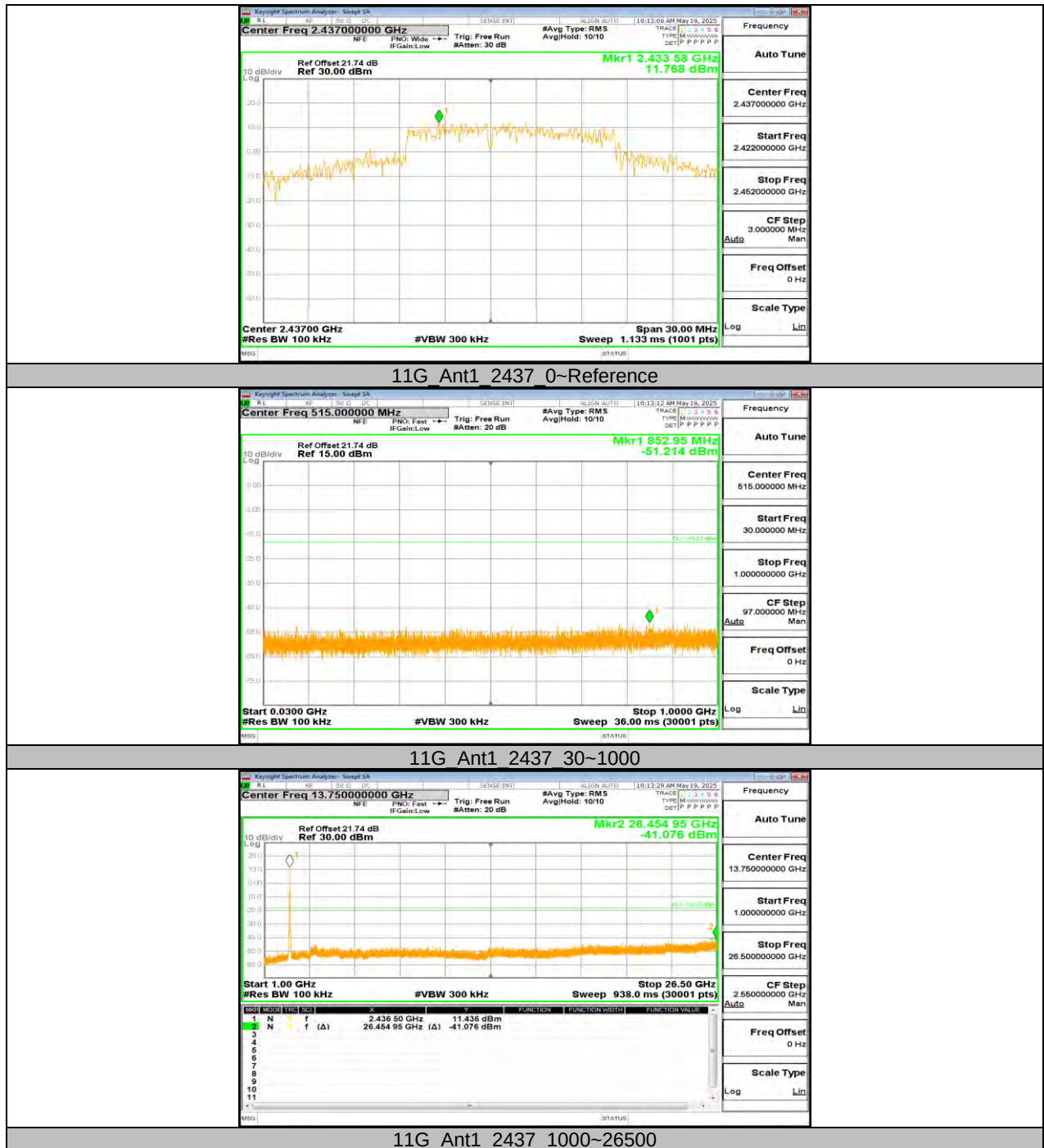
11.6.2. Test Graphs

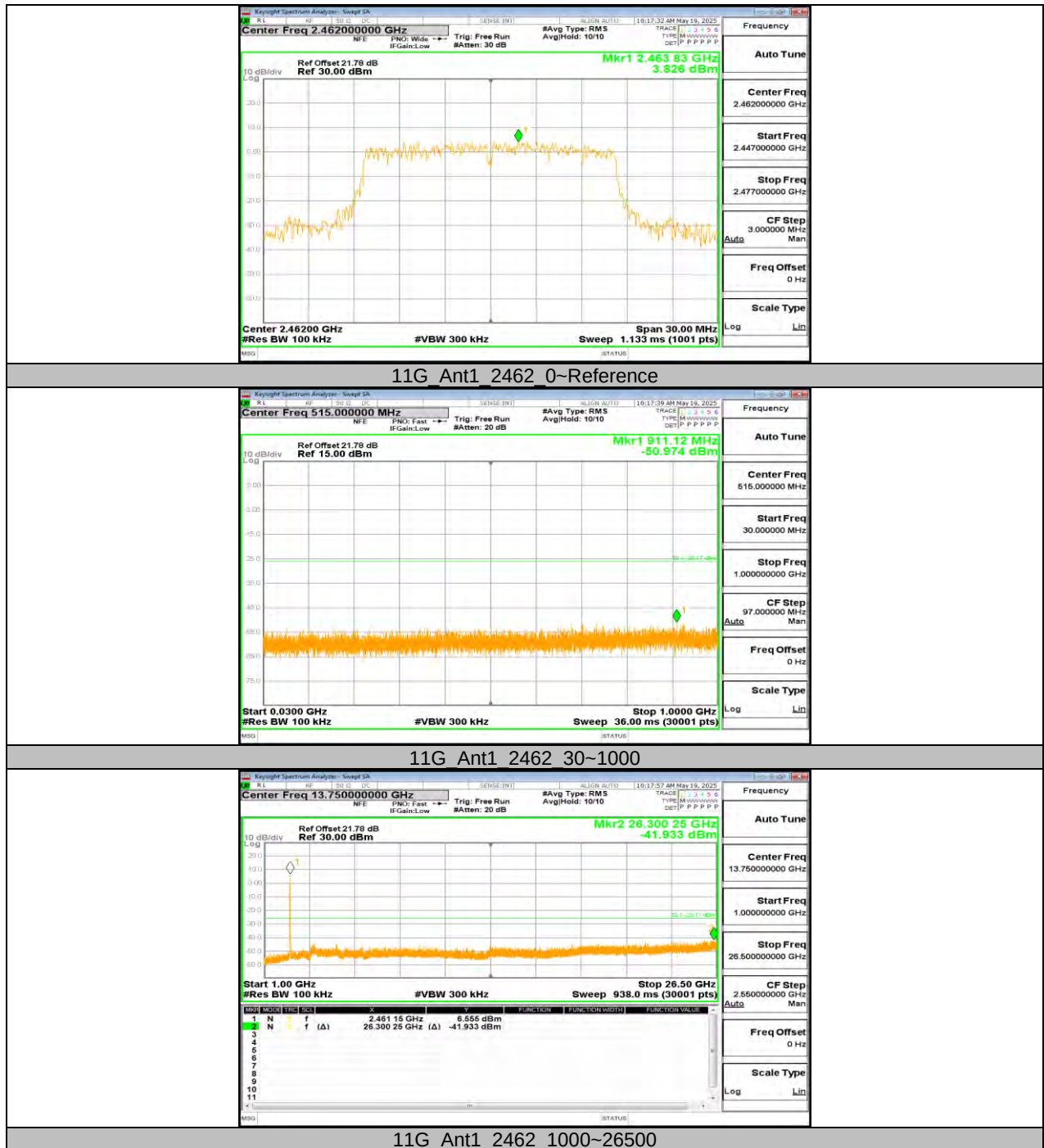




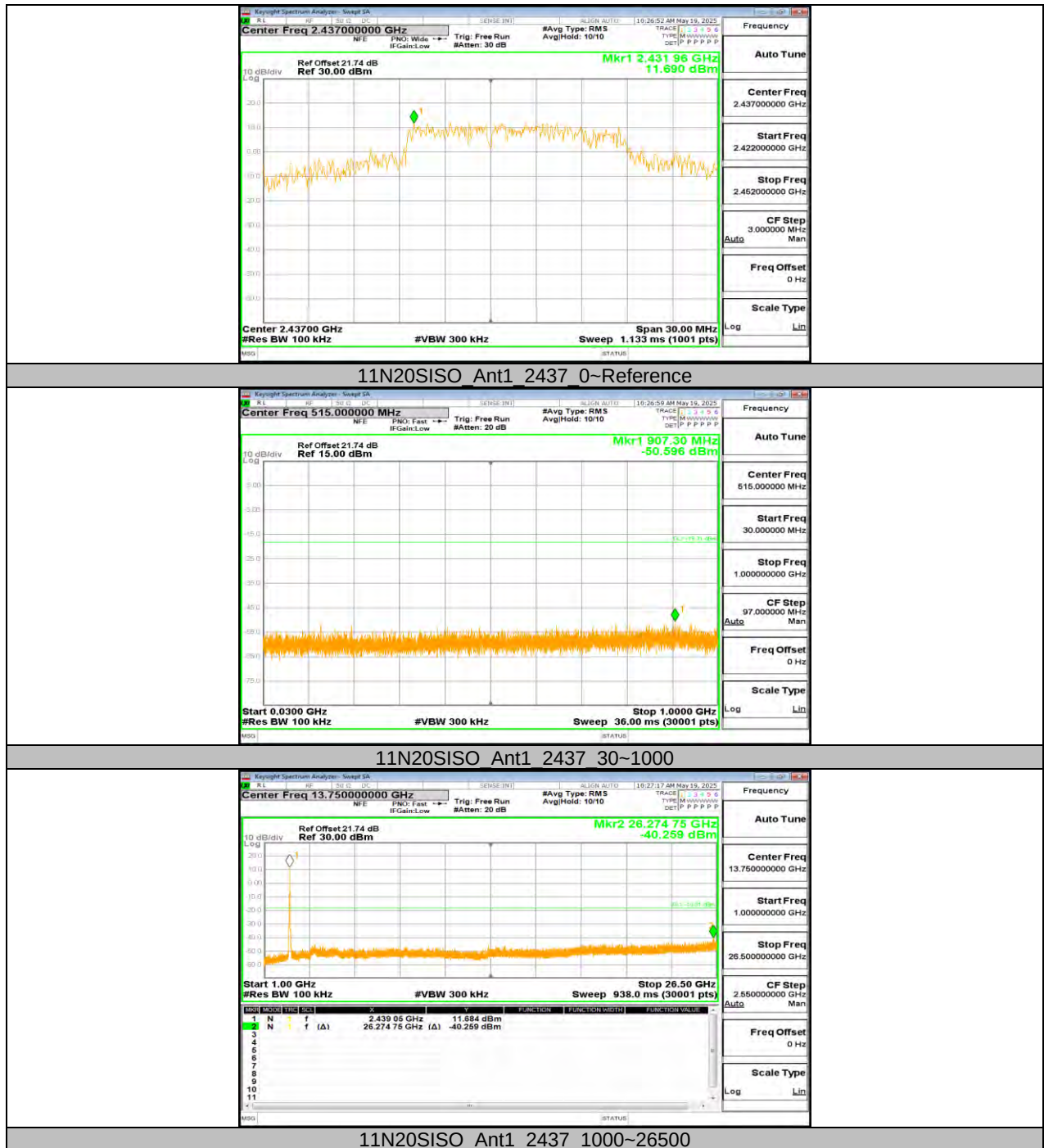


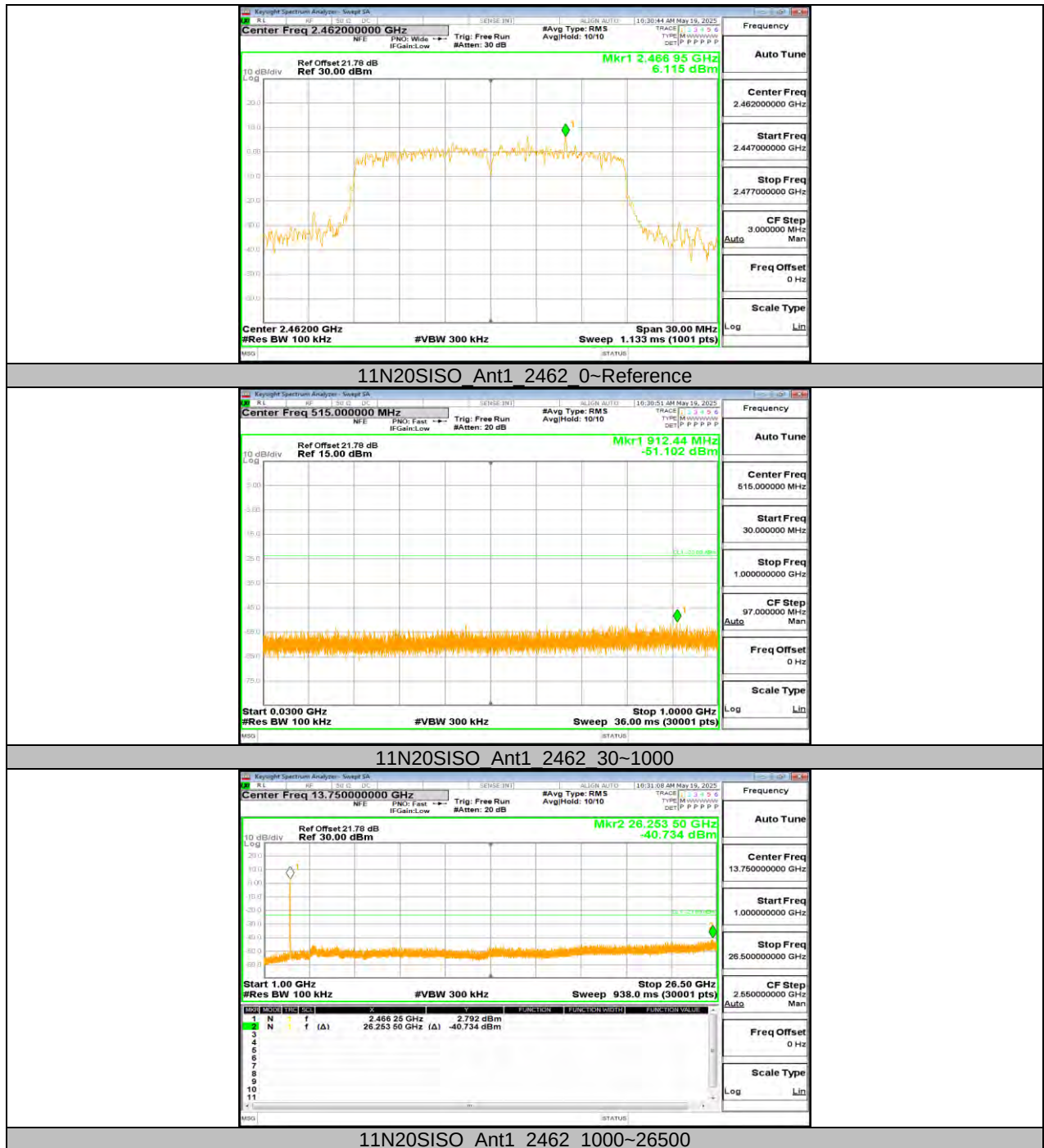












11.7. APPENDIX G: DUTY CYCLE**11.7.1. Test Result**

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	8.33	8.48	0.9823	98.23	0.08	0.12	1
11G	1.37	1.42	0.9648	96.48	0.16	0.73	1
11N20SISO	1.28	1.32	0.9697	96.97	0.13	0.78	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