

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

MAYA-W2 host-based multiradio modules

MODEL NUMBER: MAYA-W271-00B

REPORT NUMBER: 4791682450-1-RF-3

ISSUE DATE: May 18, 2025

FCC ID: XPYMAYAW2A

Prepared for

u-blox AG

Zuercherstrasse 68, Thalwil, Ch-8800 Switzerland

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 18, 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 11.9.1.3	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 11.10.2	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.

Note: This report is based on report No.: G0M-2302-1881-TFC247WF-W271-V03 which is issued by Eurofins Product Service GmbH on Jan. 11, 2024 and report No.: USRC239070003 which is issued by Eurofins E&E Wireless Taiwan Co., Ltd. and November 24, 2023. The module has been certified for FCC ID, the antenna type and gain changed. The RF technical construction including circuit diagram, PCB Layout, components, component layout and performance does not change. The output power is verified close to the original report and the power value of the channel whose power setting is adjusted is listed in section 7.1, all radiated test item performed and reported in this report.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: u-blox AG
Address: Zuercherstrasse 68, Thalwil, Ch-8800 Switzerland

Manufacturer Information

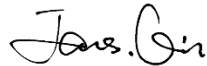
Company Name: u-blox AG
Address: Zuercherstrasse 68, Thalwil, Ch-8800 Switzerland

EUT Information

EUT Name: MAYA-W2 host-based multiradio modules
Model: MAYA-W271-00B
Series Model: \
Brand: \
Sample Received Date: February 21, 2025
Sample Status: Normal
Sample ID: 8456961
Date of Tested: February 24, 2025 to May 18, 2025

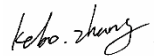
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

Prepared By:



James Qin
Project Engineer

Checked By:



Kebo Zhang
Senior Project Engineer

Approved By:



Stephen Guo
Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

<p>Accreditation Certificate</p>	<p>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.</p> <p>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</p> <p>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.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note 1:

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

Note 2:

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

Note 3:

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

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)
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:	MAYA-W2 host-based multiradio modules
Model:	MAYA-W271-00B
Series Model:	\
Model Difference:	\

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDM(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/11n HT40/ ax HE20/ax HE40
Rated Input:	DC 5 V, 1 A

5.2. CHANNEL LIST

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

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

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	17.5
g	2412 ~ 2462	1-11[11]	19.1
n HT20	2412 ~ 2462	1-11[11]	19.0
n HT40	2422 ~ 2452	3-9[7]	13.2
ax HE20	2412 ~ 2462	1-11[11]	19.01
ax HE40	2422 ~ 2452	3-9[7]	12.83

5.4. TEST CHANNEL CONFIGURATION

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

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter		
Test Software	CMD	

b	2412	19
	2437	19
	2462	19

g	2412	16
	2437	19
	2462	16

n20	2412	16
	2417	17
	2422	17
	2427	18
	2432	18
	2437	19
	2442	17
	2447	17
	2452	16
	2457	15
	2462	14

n40	2412	14
	2437	12
	2462	14

ax20	2412	14
	2417	16

	2422	17
	2427	19
	2432	19
	2437	19
	2442	17
	2447	17
	2452	17
	2457	17
	2462	14

ax40(ch-2)	2412	14
	2437	12
	2462	14

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
J20	2412-2462	FPC	3.55

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.
IEEE 802.11g	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT J20 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Adapter	/	FH12W-1201000C	Input: 100-240V ~50/60Hz, 0.6 A Output Voltage: 5Vdc, 1A
2	UART Serial Port	/	/	/

I/O CABLES

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

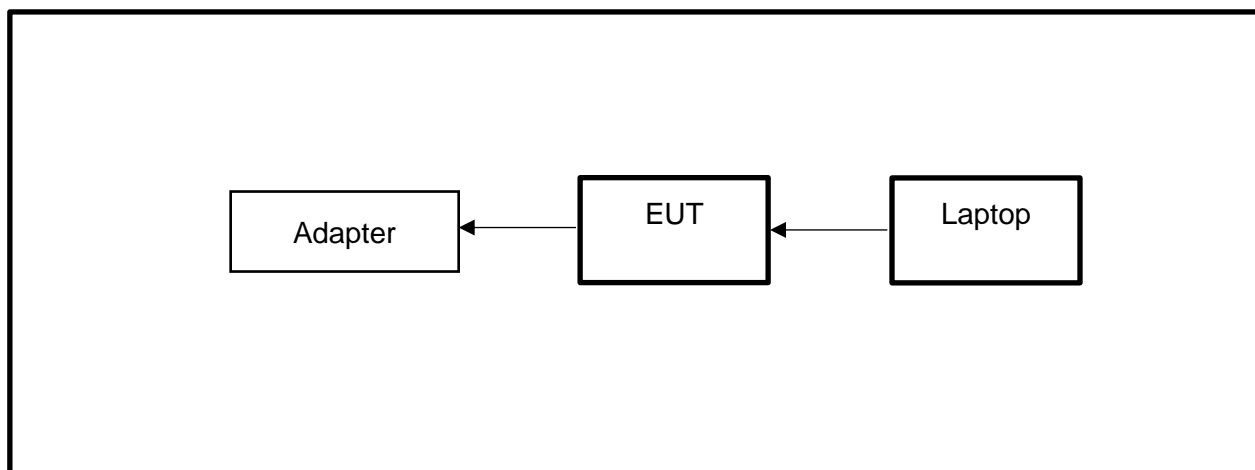
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in an engineer mode by running with CMD command.

SETUP DIAGRAM FOR TESTS



6. MEASURING EQUIPMENT AND SOFTWARE USED

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	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)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

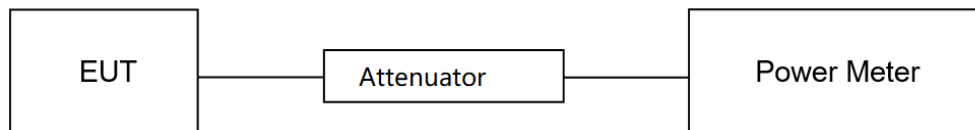
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	22.1°C	Relative Humidity	47.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

TEST DATE / ENGINEER

Test Date	May 18, 2025	Test By	Johnson Liu
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TEST RESULTS

All power setting is levered from original report, conducted power measurement is performed only for the channel which power setting is adjusted by radiated emission test.

Mode	Frequencny (MHz)	Avg. output power (dBm)
802.11n HT20	2462	13.72
802.11ax HE20	2462	13.88

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 (uV/m) at 3 m	Field Strength Limit (dBuV/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
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.

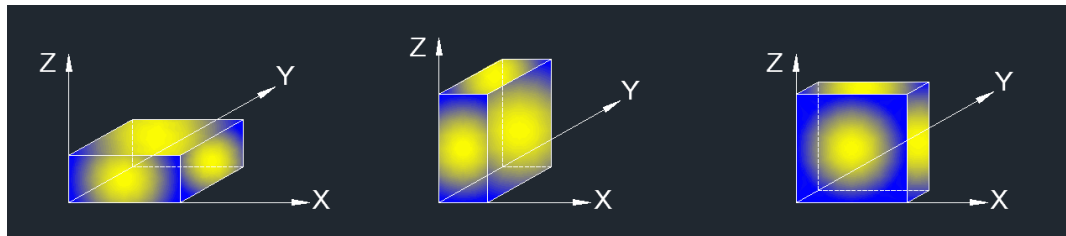
Above 1 GHz

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 (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

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:

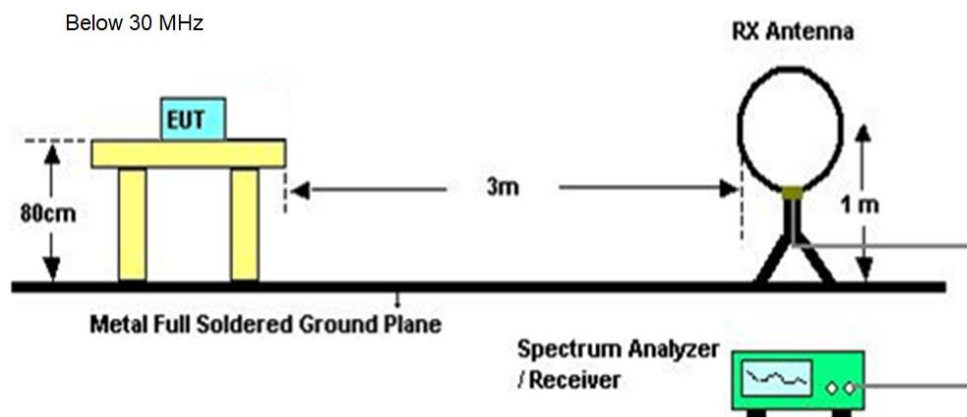
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please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

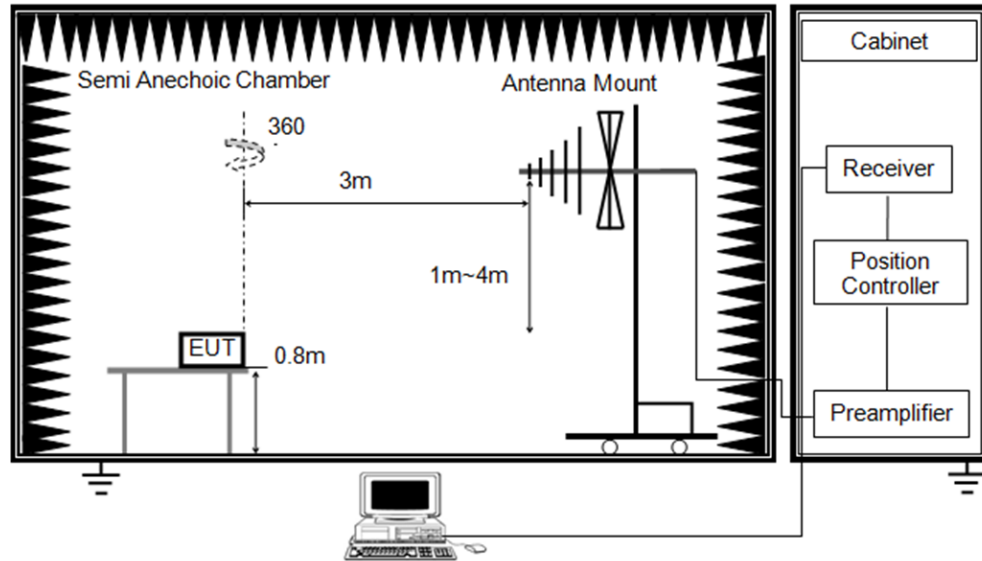
Note:

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.

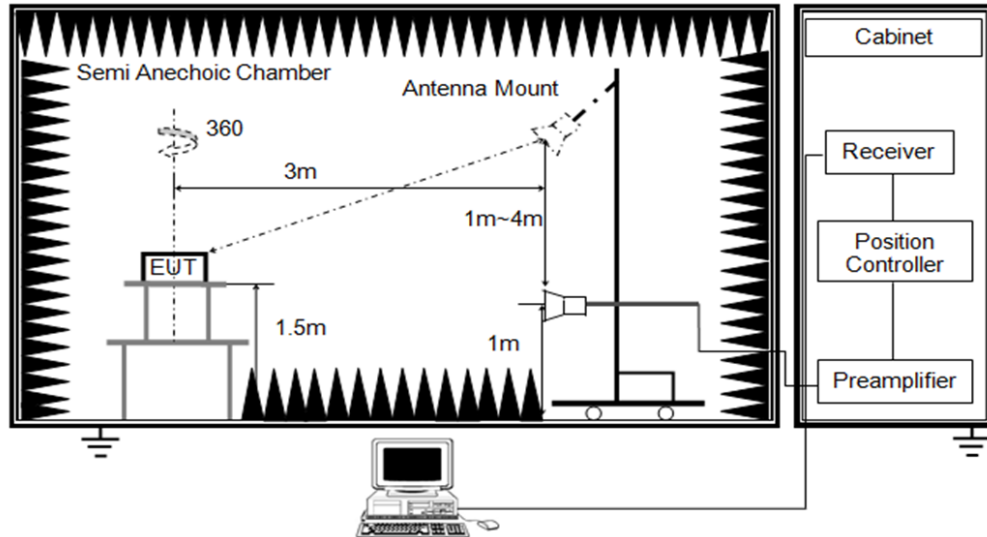
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	24.9°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

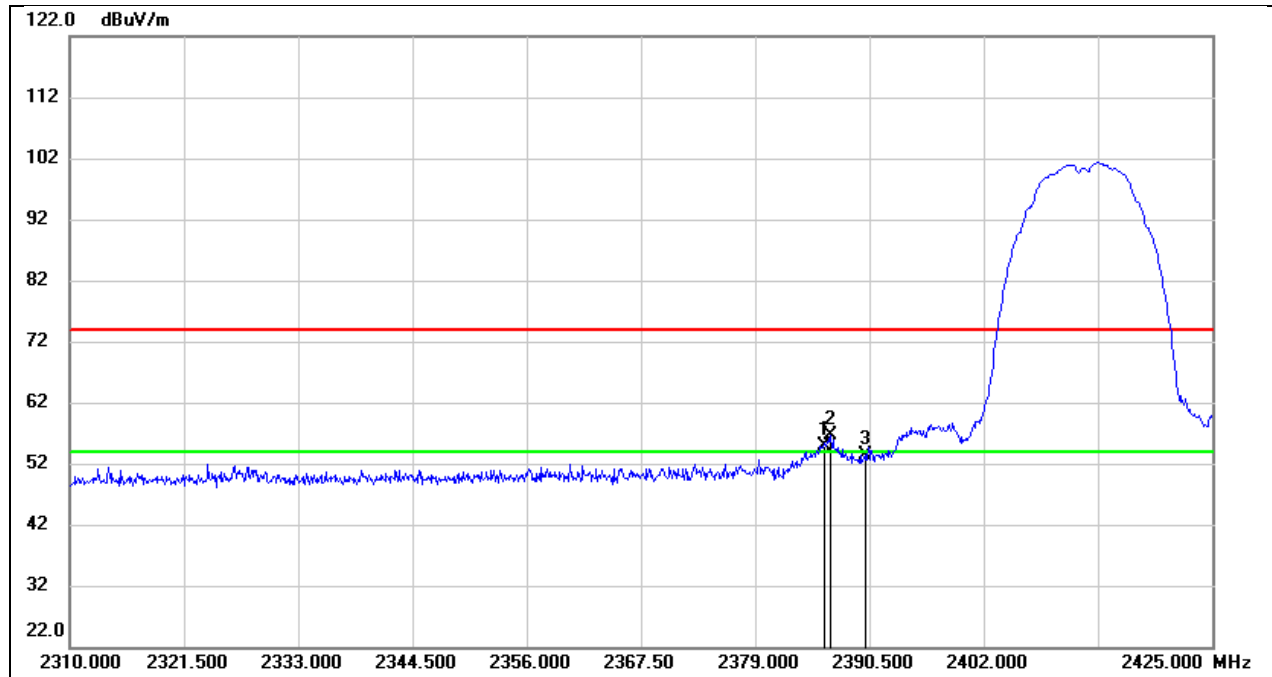
TEST DATE / ENGINEER

Test Date	February 24, 2025 to April 30, 2025	Test By	Rex Huang
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TEST RESULTS

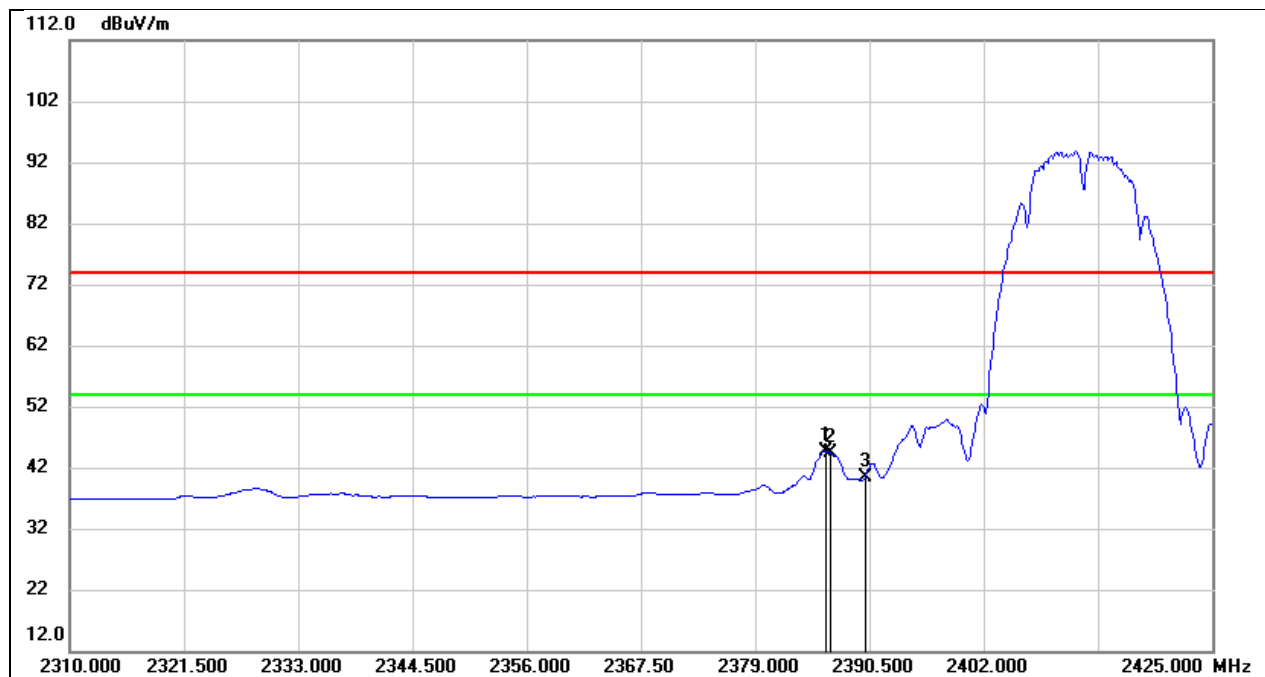
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



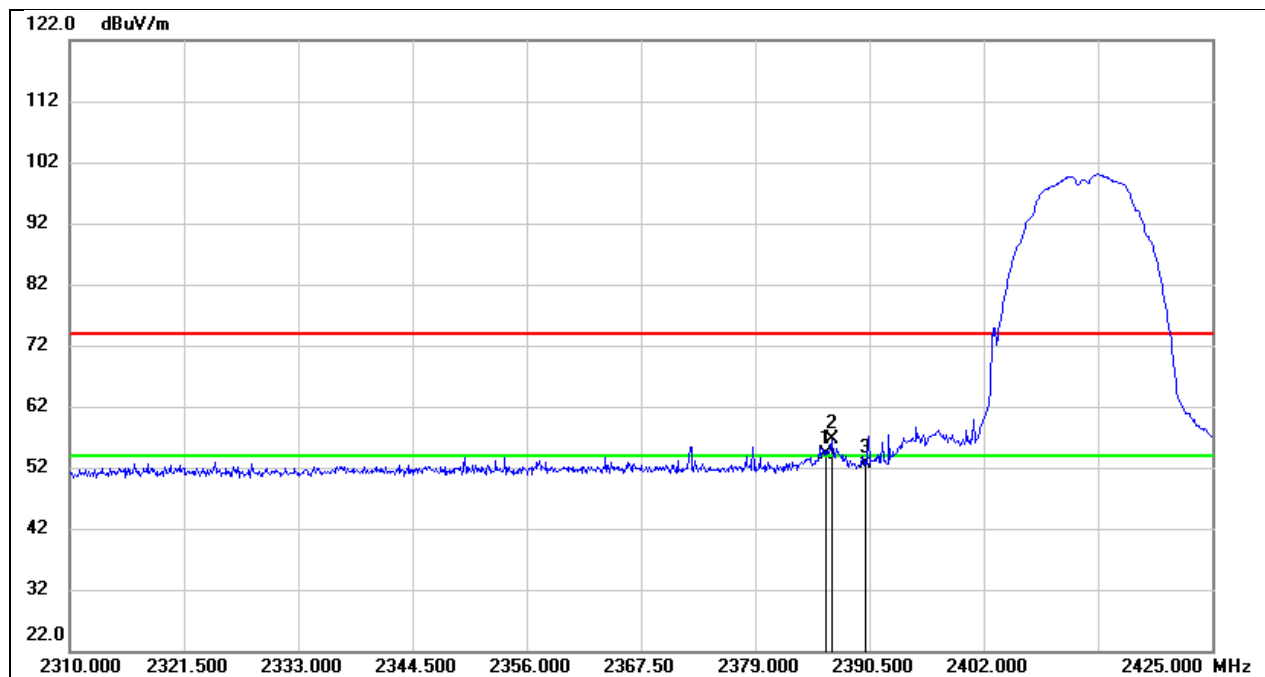
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.130	23.18	31.71	54.89	74.00	-19.11	peak
2	2386.590	24.87	31.72	56.59	74.00	-17.41	peak
3	2390.000	21.64	31.73	53.37	74.00	-20.63	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



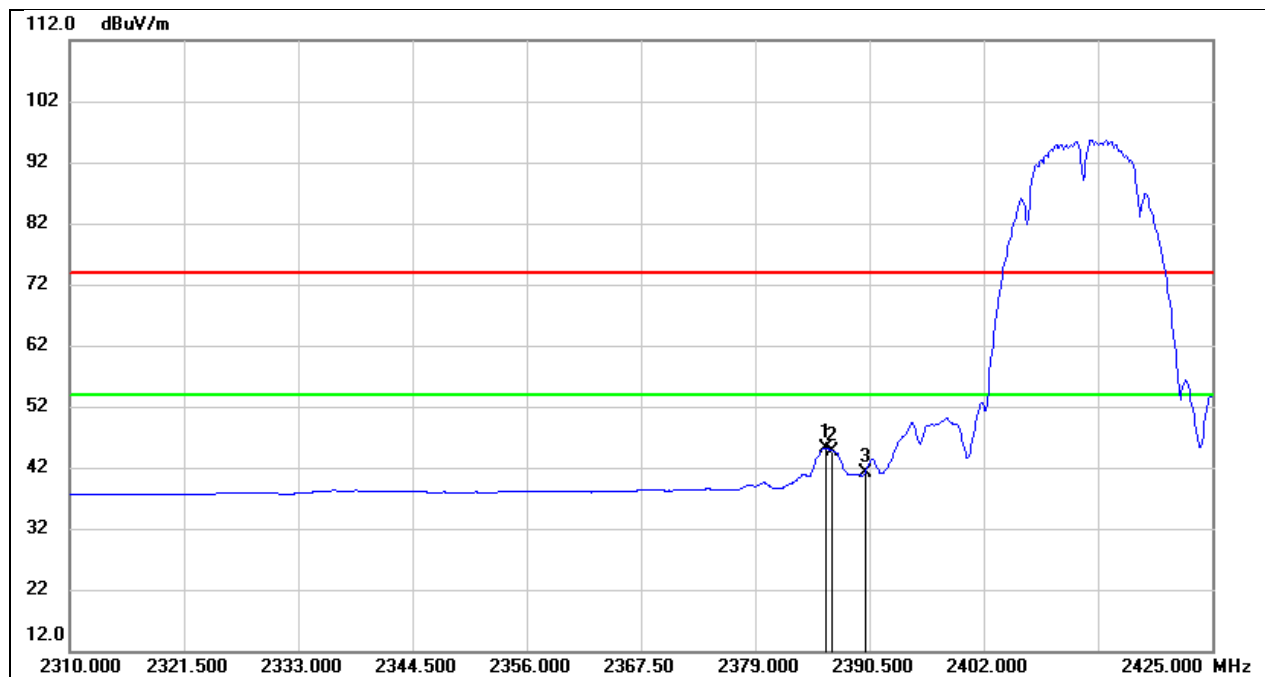
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.130	12.95	31.71	44.66	54.00	-9.34	AVG
2	2386.590	12.55	31.72	44.27	54.00	-9.73	AVG
3	2390.000	8.71	31.73	40.44	54.00	-13.56	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



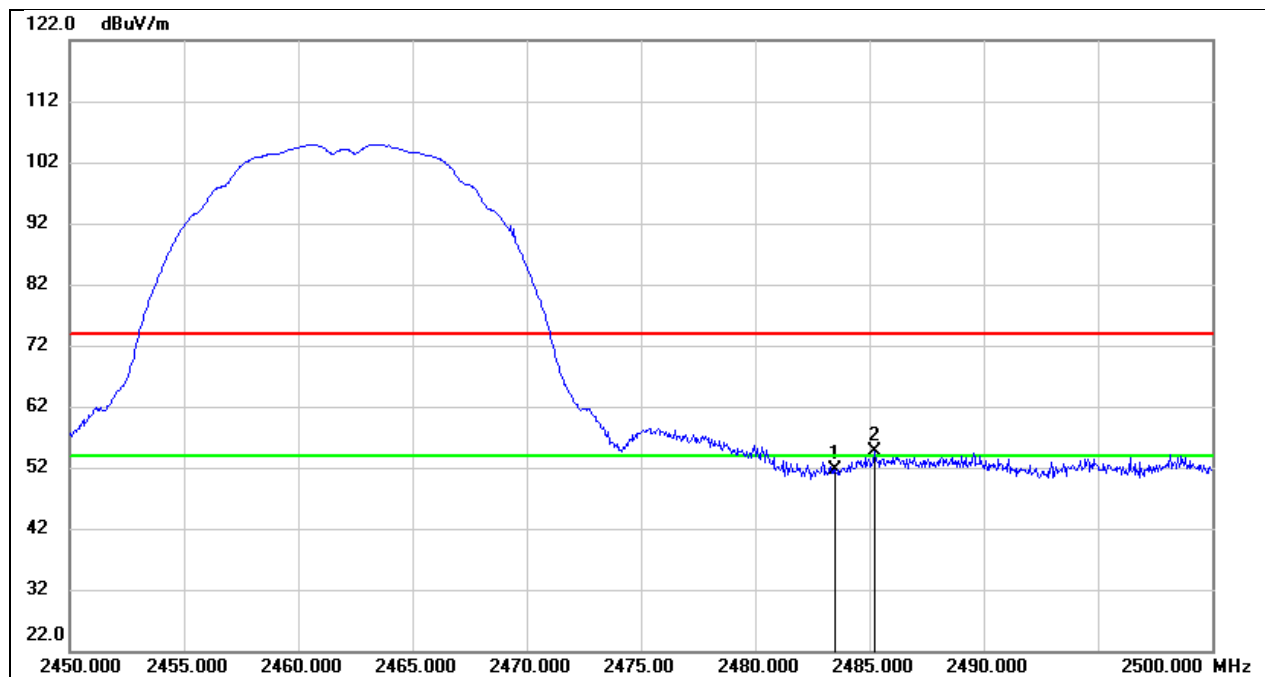
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.130	21.71	32.53	54.24	74.00	-19.76	peak
2	2386.705	24.17	32.55	56.72	74.00	-17.28	peak
3	2390.000	20.03	32.55	52.58	74.00	-21.42	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



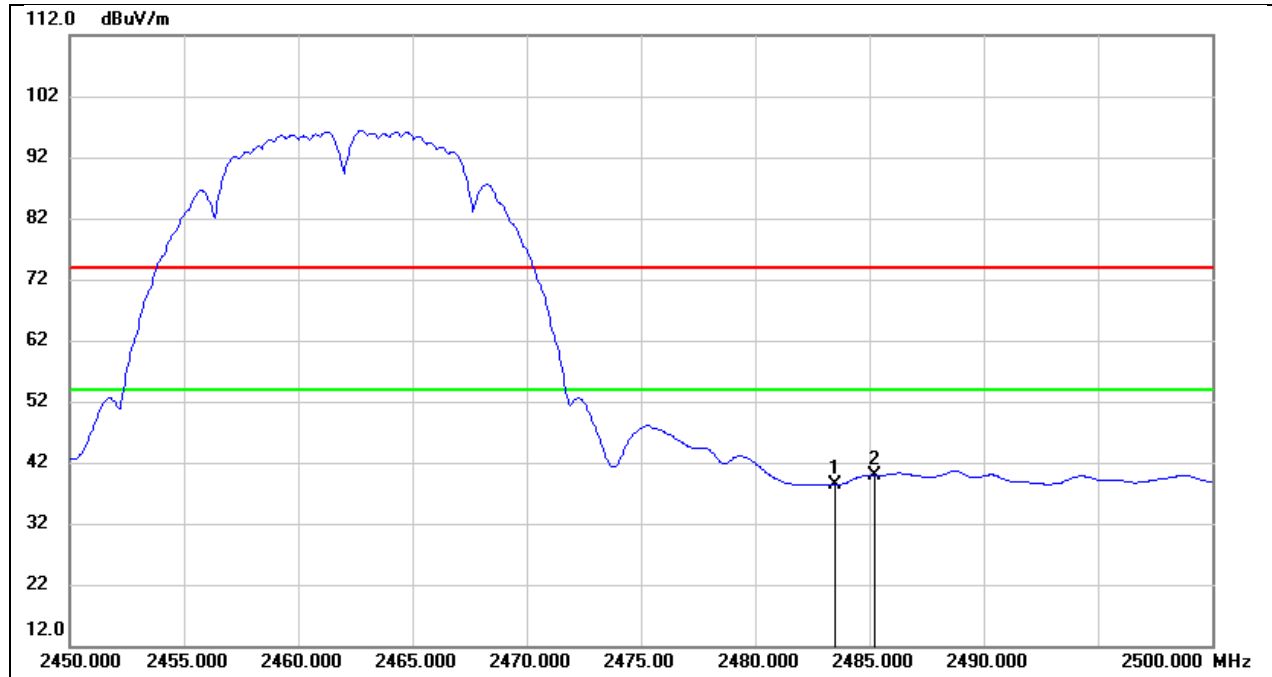
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.130	12.65	32.53	45.18	54.00	-8.82	AVG
2	2386.705	12.15	32.55	44.70	54.00	-9.30	AVG
3	2390.000	8.52	32.55	41.07	54.00	-12.93	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



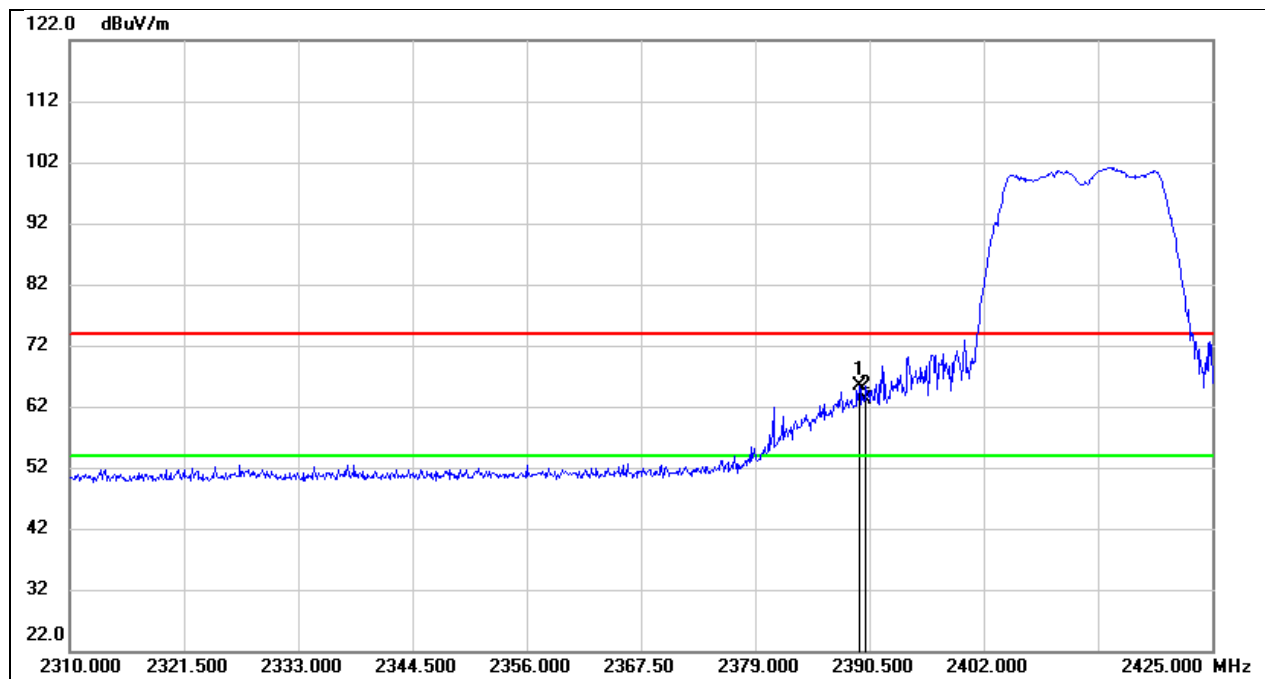
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.75	32.00	51.75	74.00	-22.25	peak
2	2485.250	22.59	32.00	54.59	74.00	-19.41	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



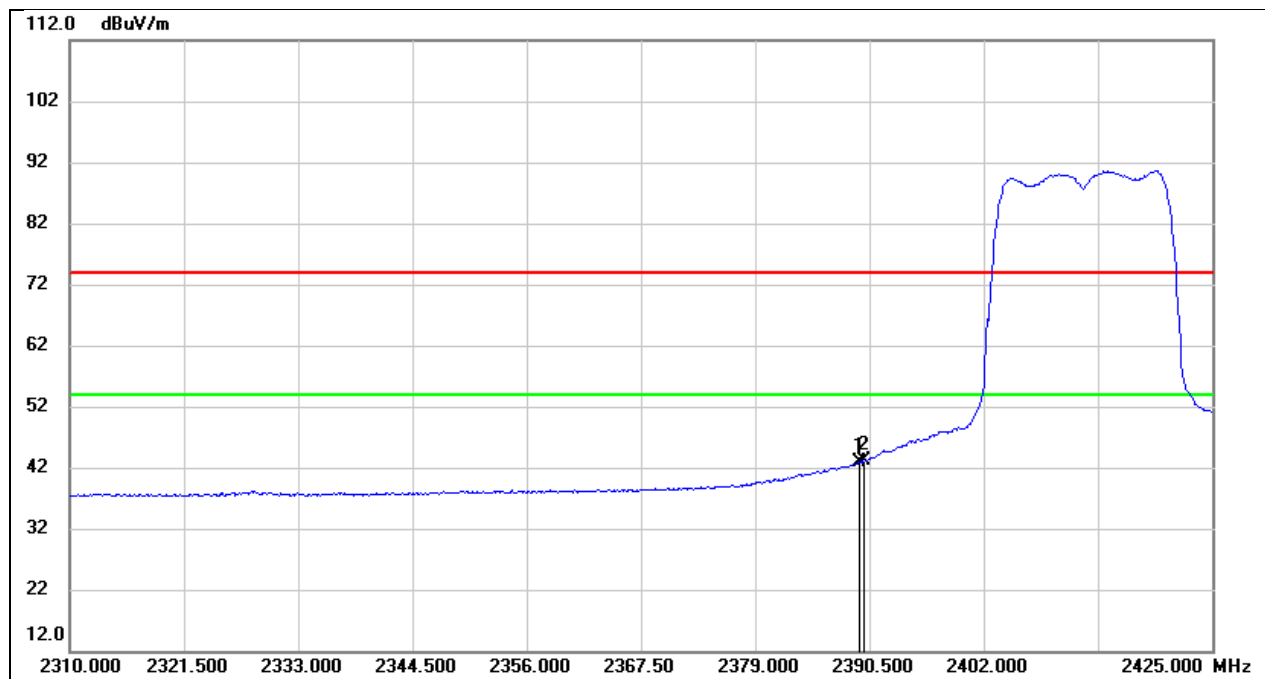
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	6.43	32.00	38.43	54.00	-15.57	AVG
2	2485.250	7.87	32.00	39.87	54.00	-14.13	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



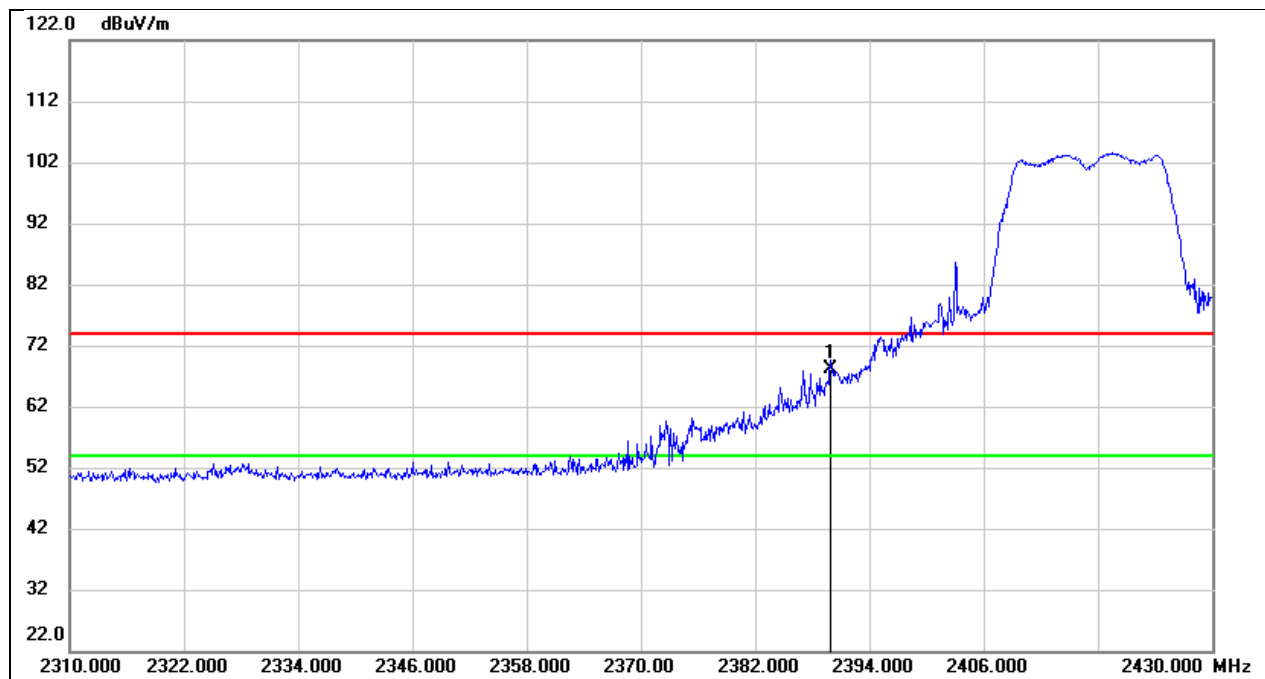
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.465	33.72	31.73	65.45	74.00	-8.55	peak
2	2390.000	31.30	31.73	63.03	74.00	-10.97	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



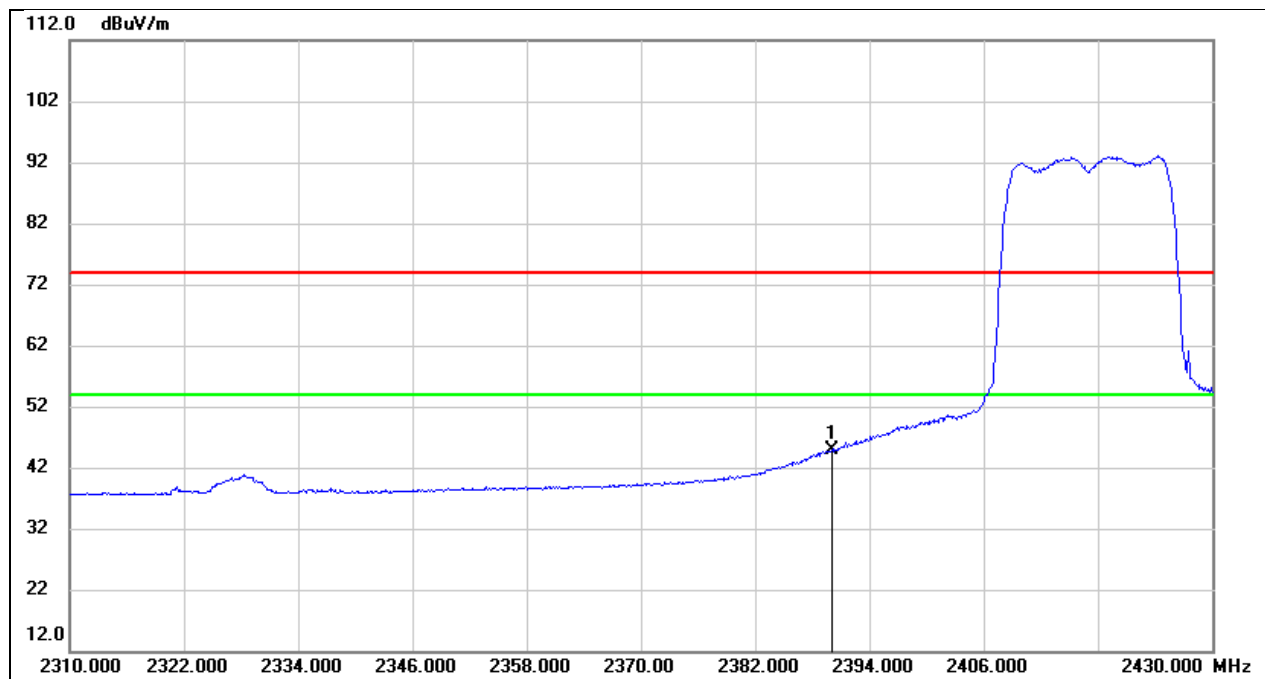
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.465	11.15	31.73	42.88	54.00	-11.12	AVG
2	2390.000	11.39	31.73	43.12	54.00	-10.88	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



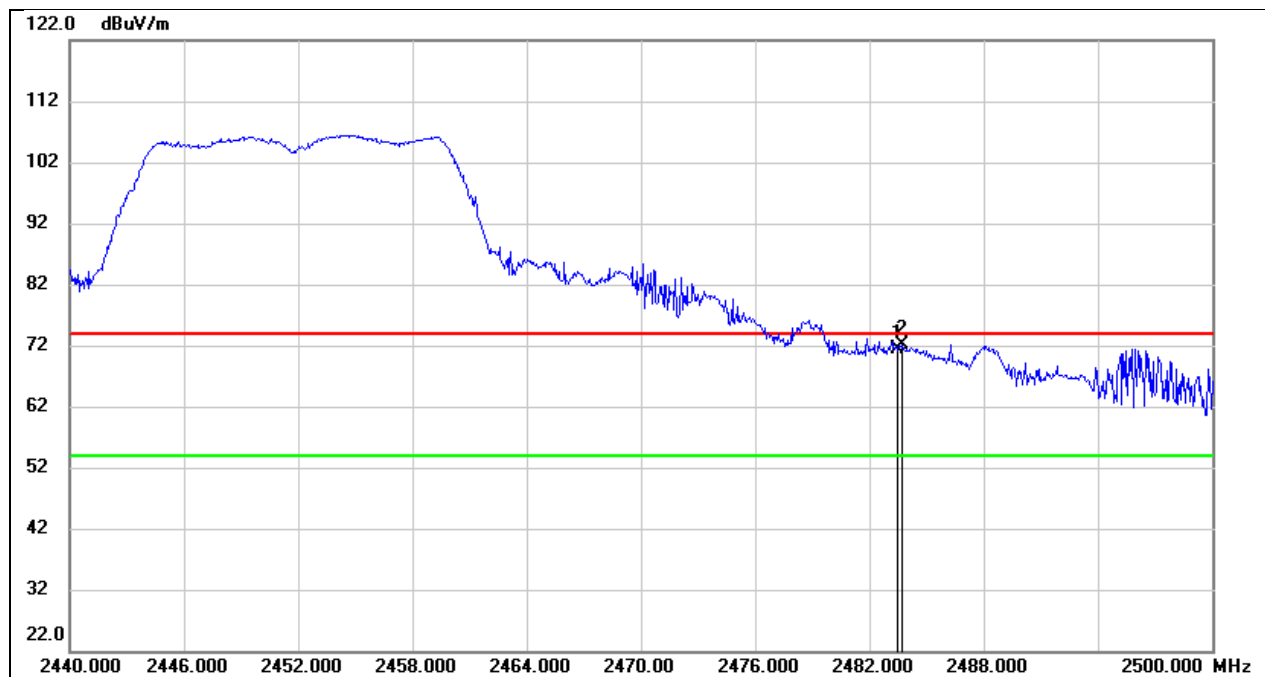
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.31	31.73	68.04	74.00	-5.96	peak

Test Mode:	802.11g AV	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



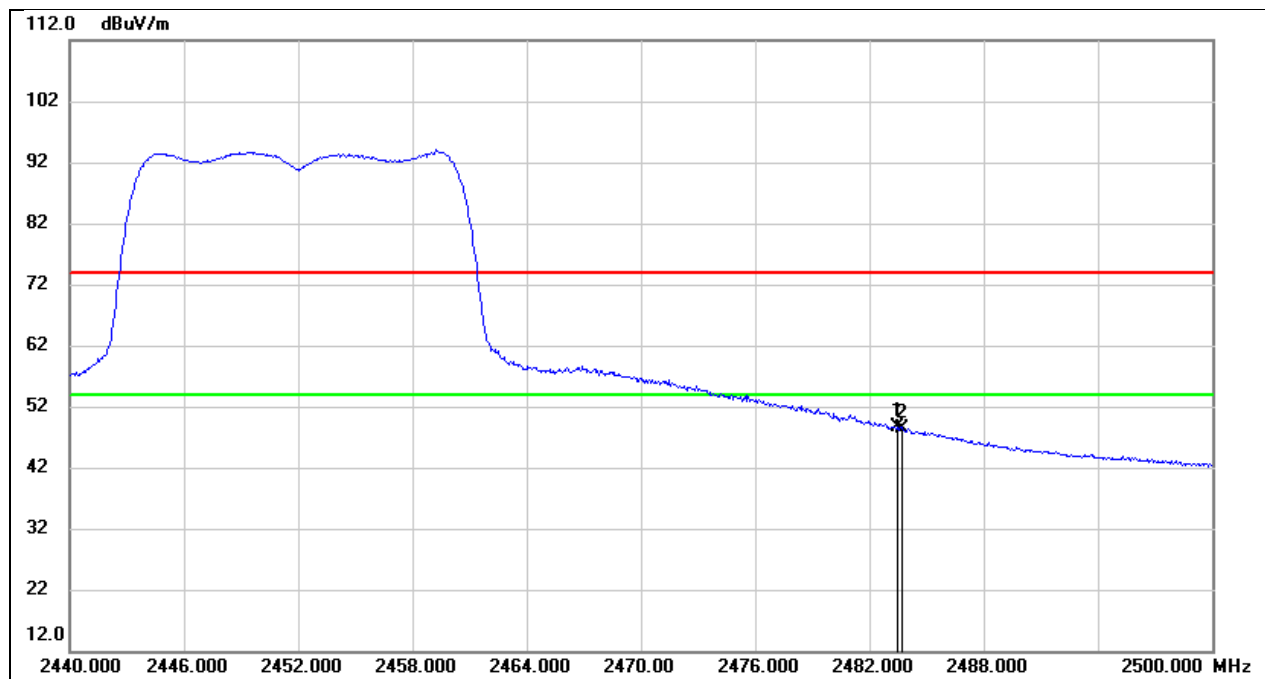
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	13.08	31.73	44.81	54.00	-9.19	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



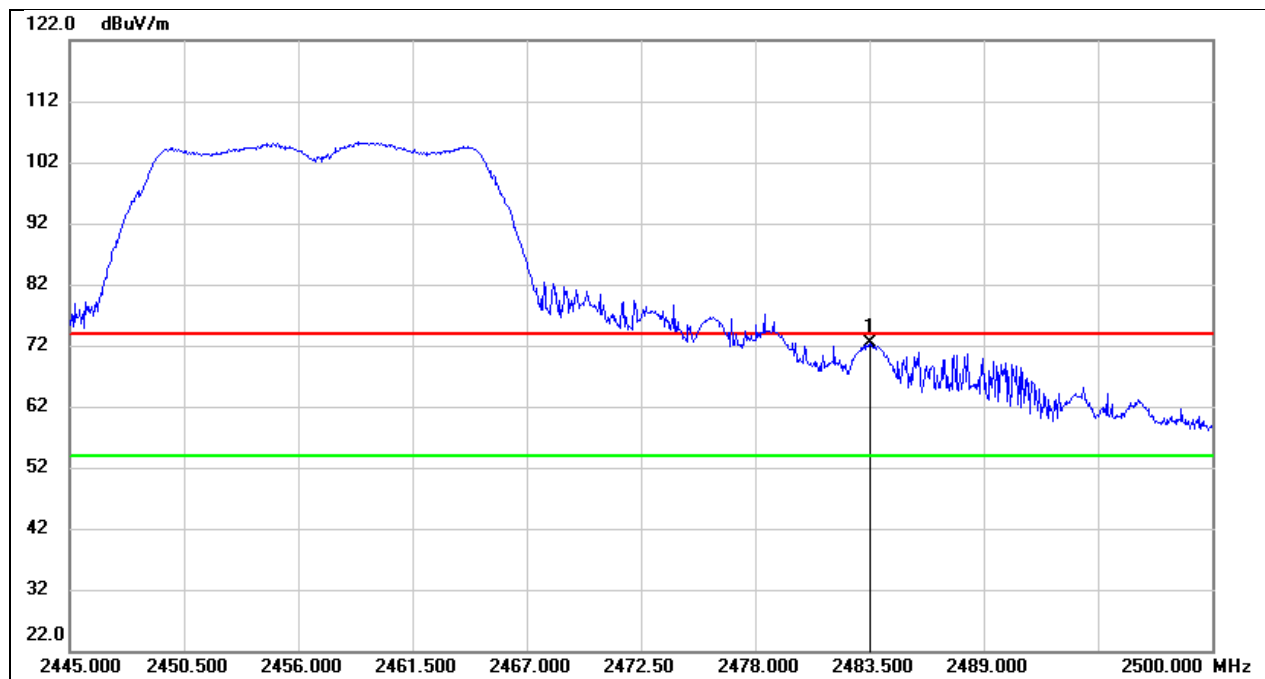
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	39.49	32.00	71.49	74.00	-2.51	peak
2	2483.740	40.10	32.00	72.10	74.00	-1.90	peak

Test Mode:	802.11g AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



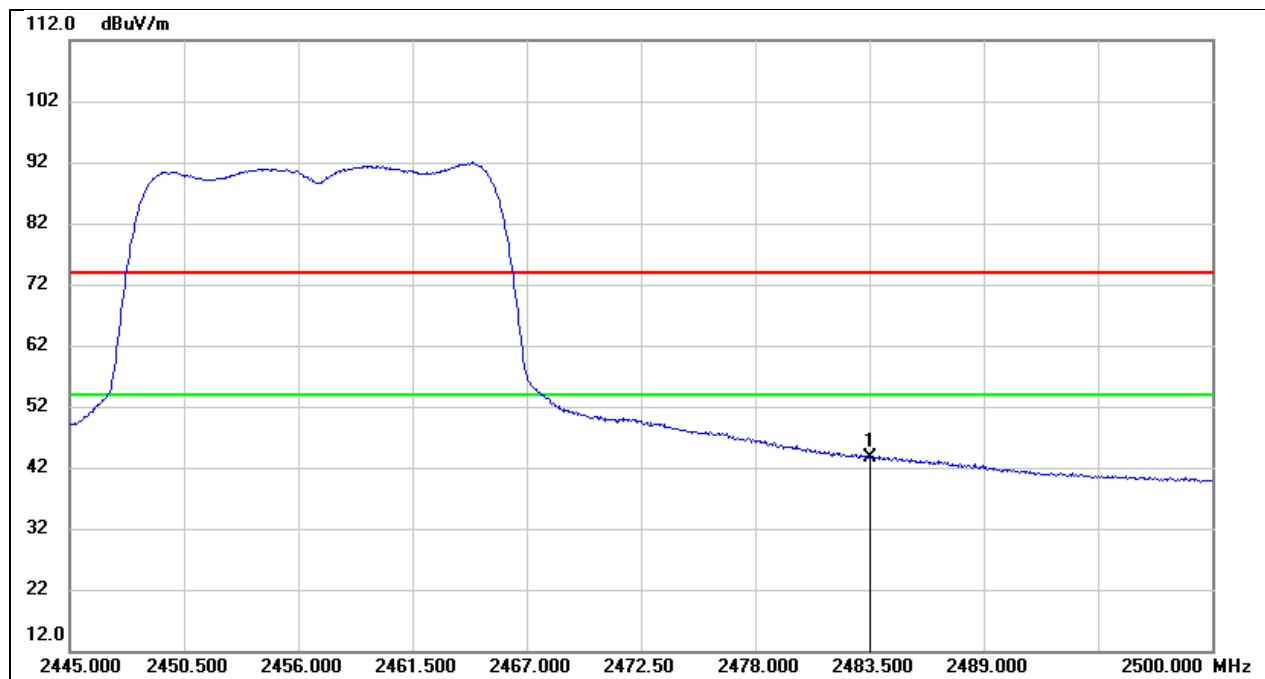
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.55	32.00	48.55	54.00	-5.45	AVG
2	2483.740	16.27	32.00	48.27	54.00	-5.73	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



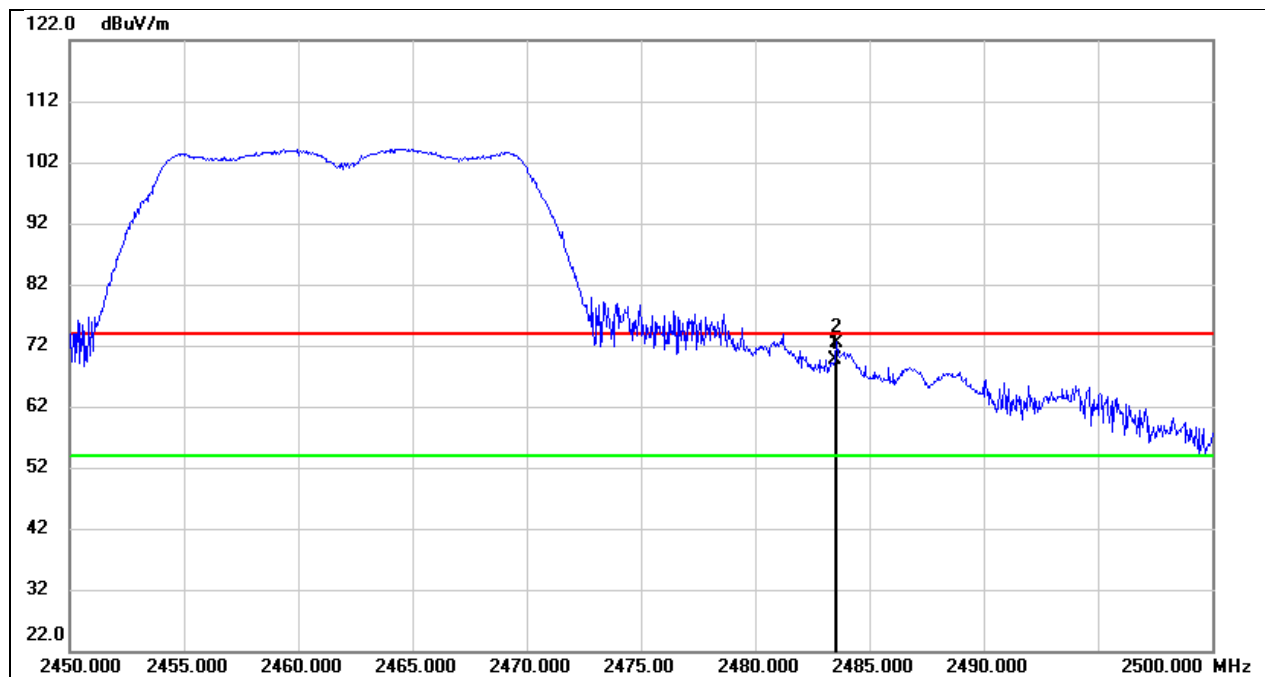
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	40.30	32.00	72.30	74.00	-1.70	peak

Test Mode:	802.11g AV	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



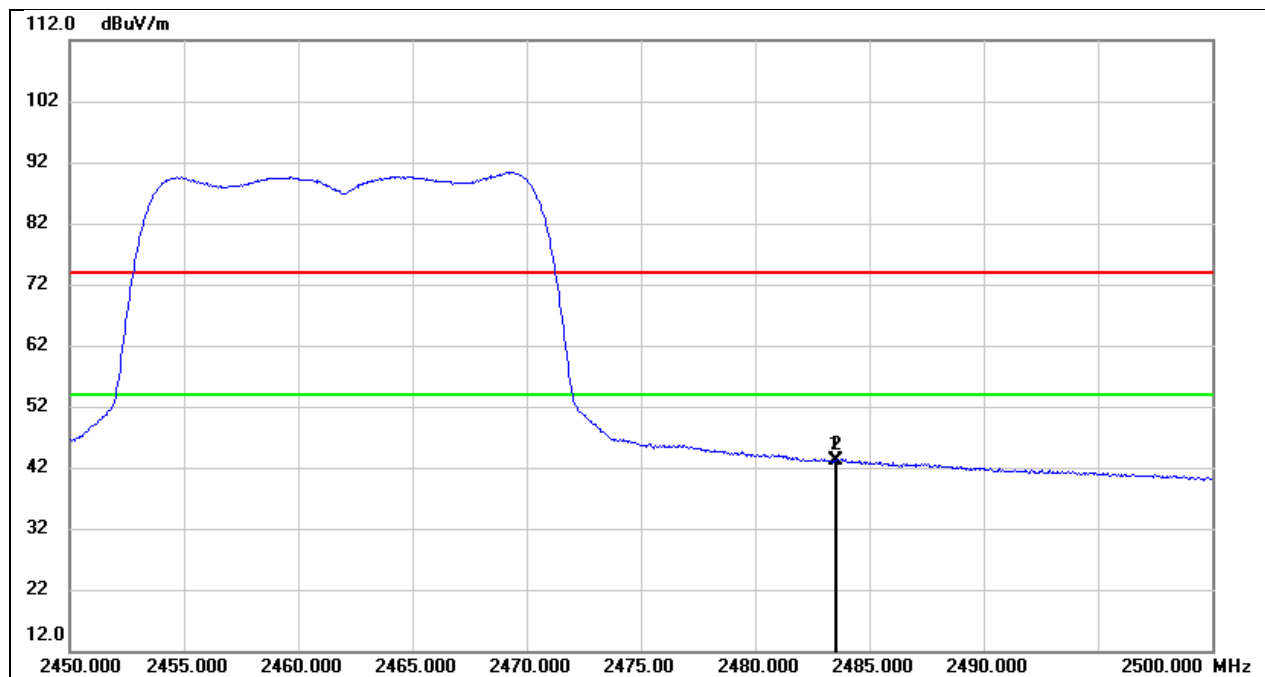
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	11.60	32.00	43.60	54.00	-10.40	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



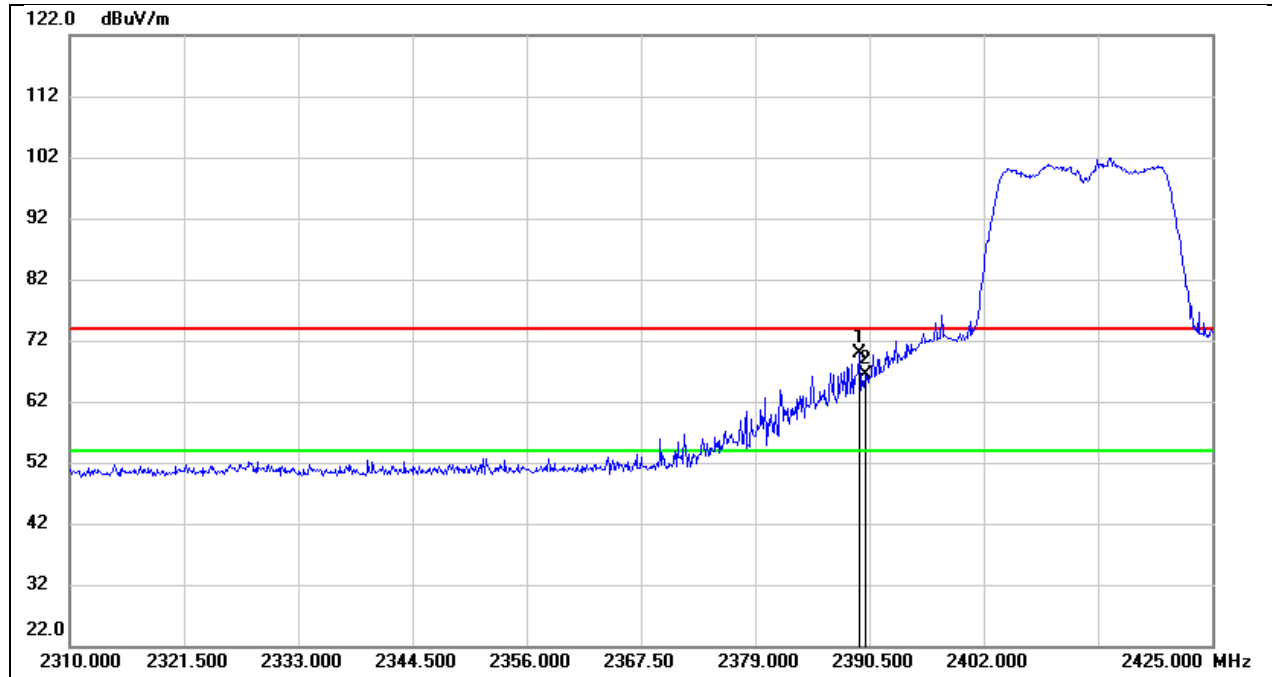
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.65	32.00	69.65	74.00	-4.35	peak
2	2483.550	40.50	32.00	72.50	74.00	-1.50	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



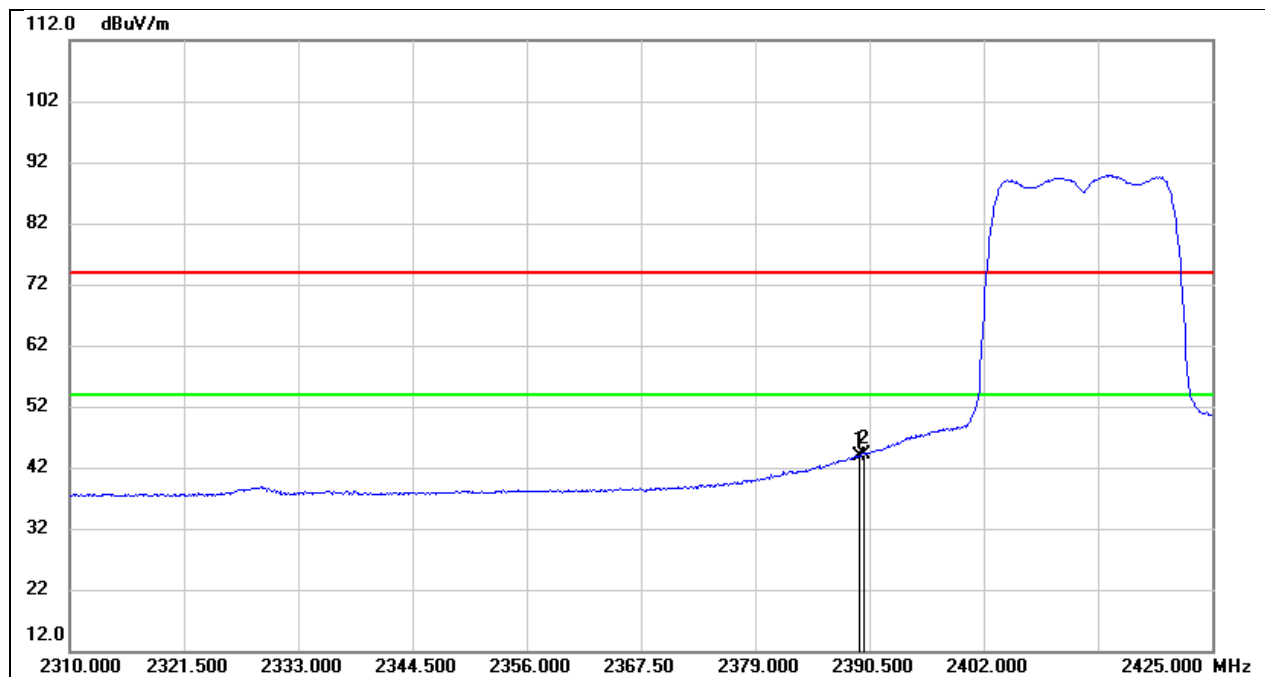
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	11.22	32.00	43.22	54.00	-10.78	AVG
2	2483.550	11.04	32.00	43.04	54.00	-10.96	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



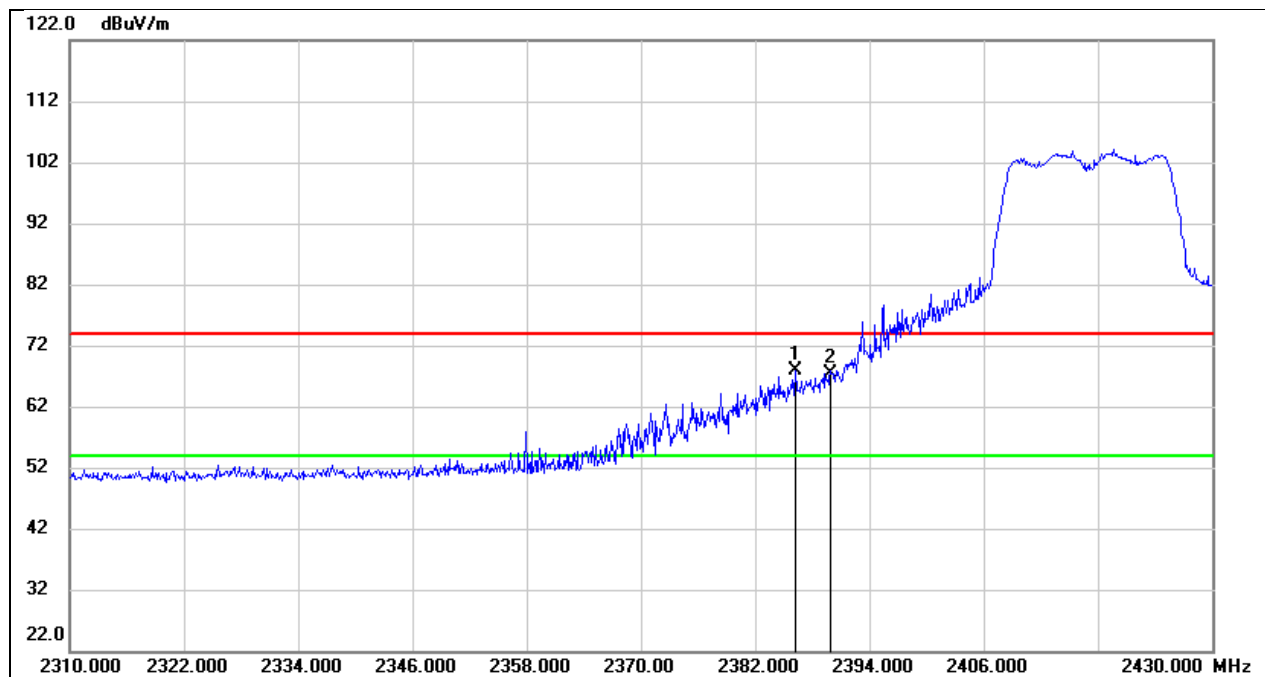
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.465	38.23	31.73	69.96	74.00	-4.04	peak
2	2390.000	34.71	31.73	66.44	74.00	-7.56	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



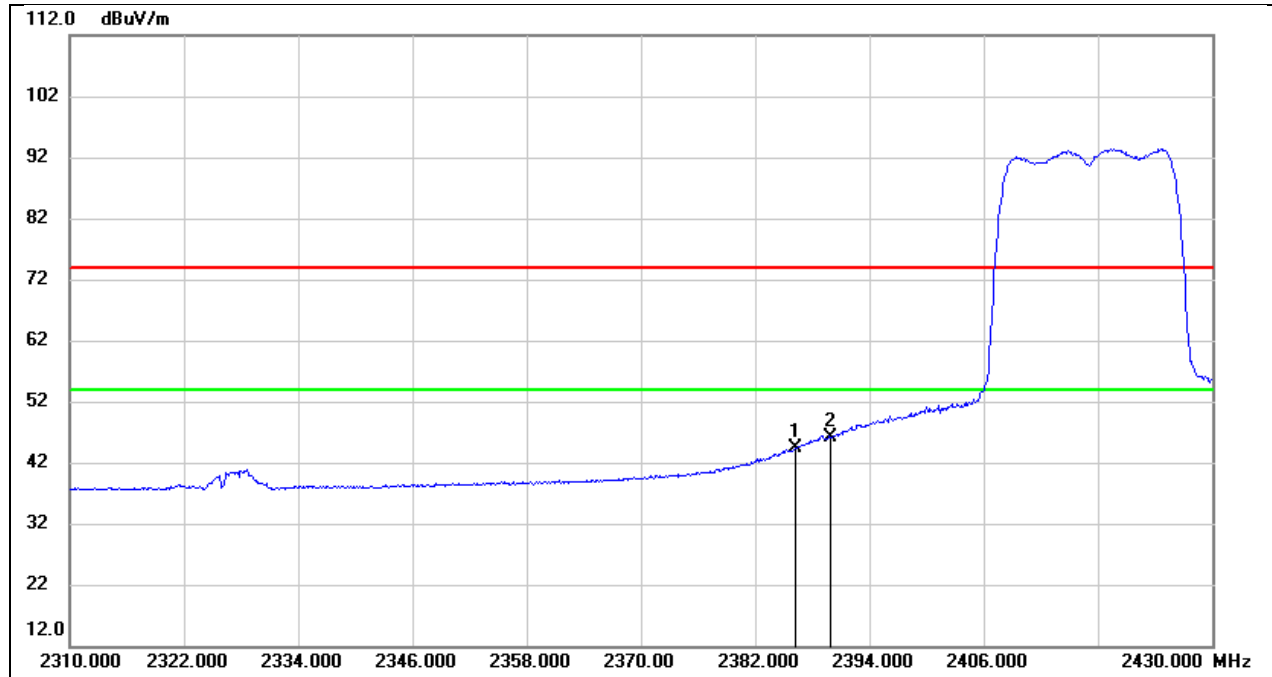
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.465	12.15	31.73	43.88	54.00	-10.12	AVG
2	2390.000	12.40	31.73	44.13	54.00	-9.87	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



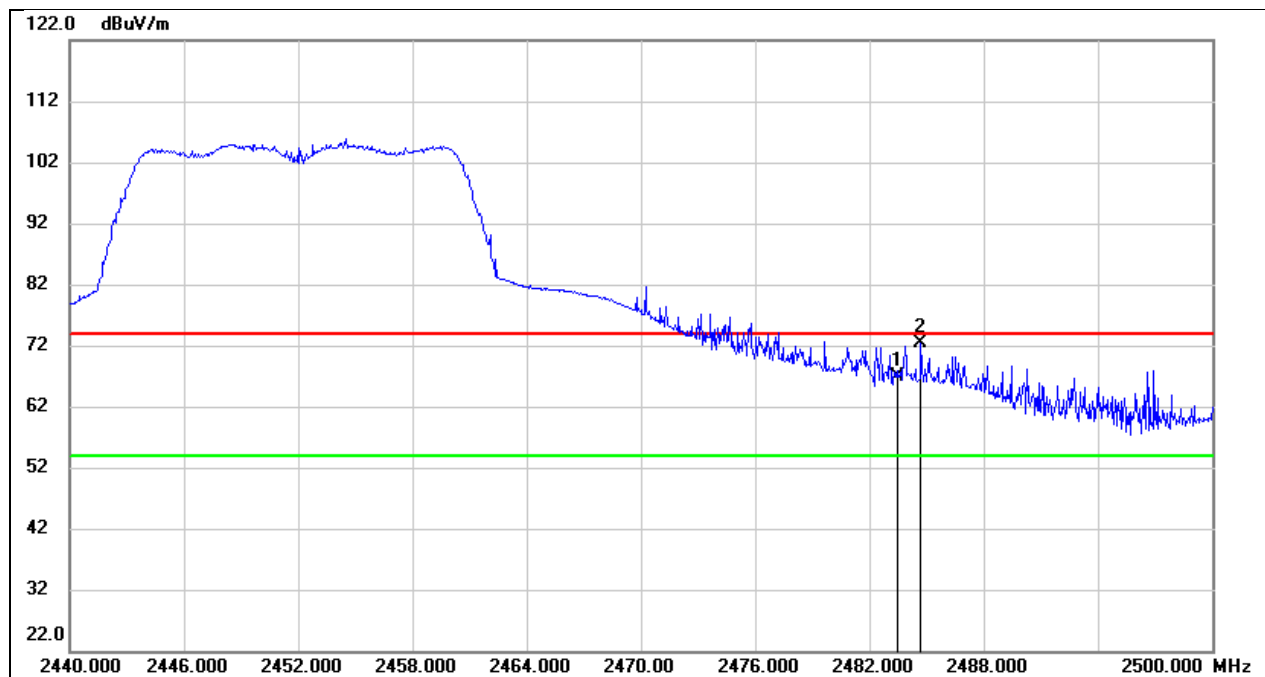
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.200	36.28	31.71	67.99	74.00	-6.01	peak
2	2390.000	35.57	31.73	67.30	74.00	-6.70	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



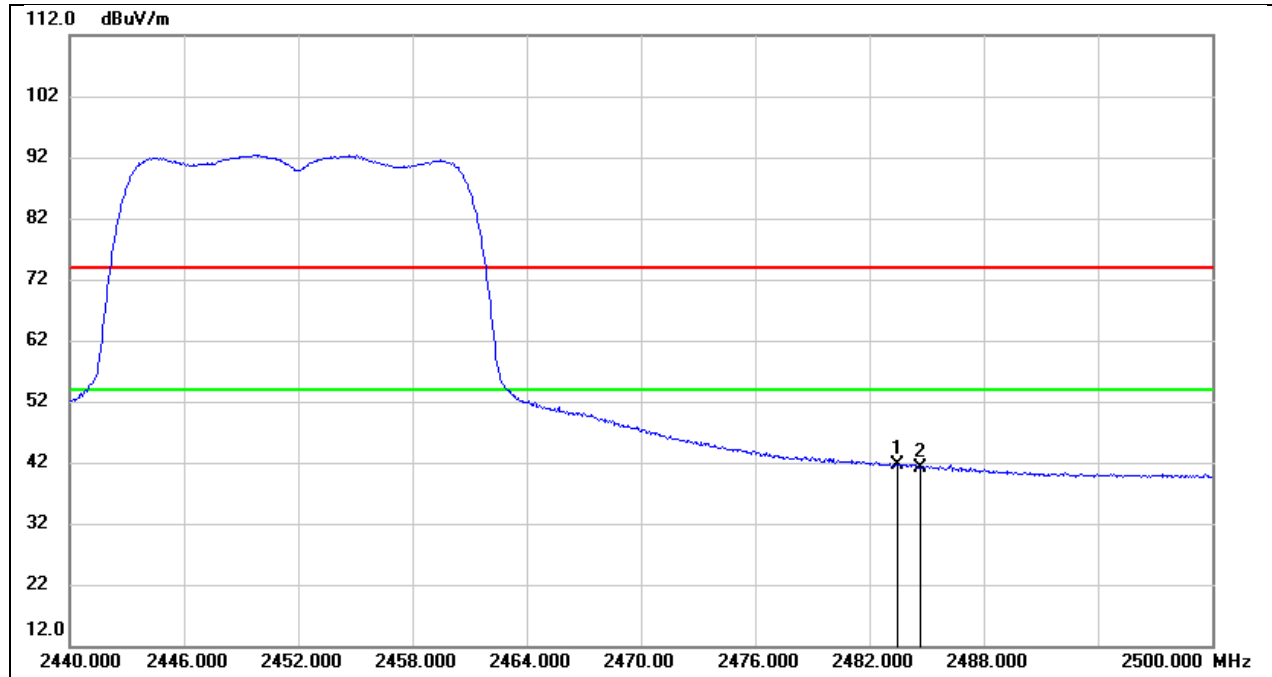
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.200	12.67	31.71	44.38	54.00	-9.62	AVG
2	2390.000	14.38	31.73	46.11	54.00	-7.89	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



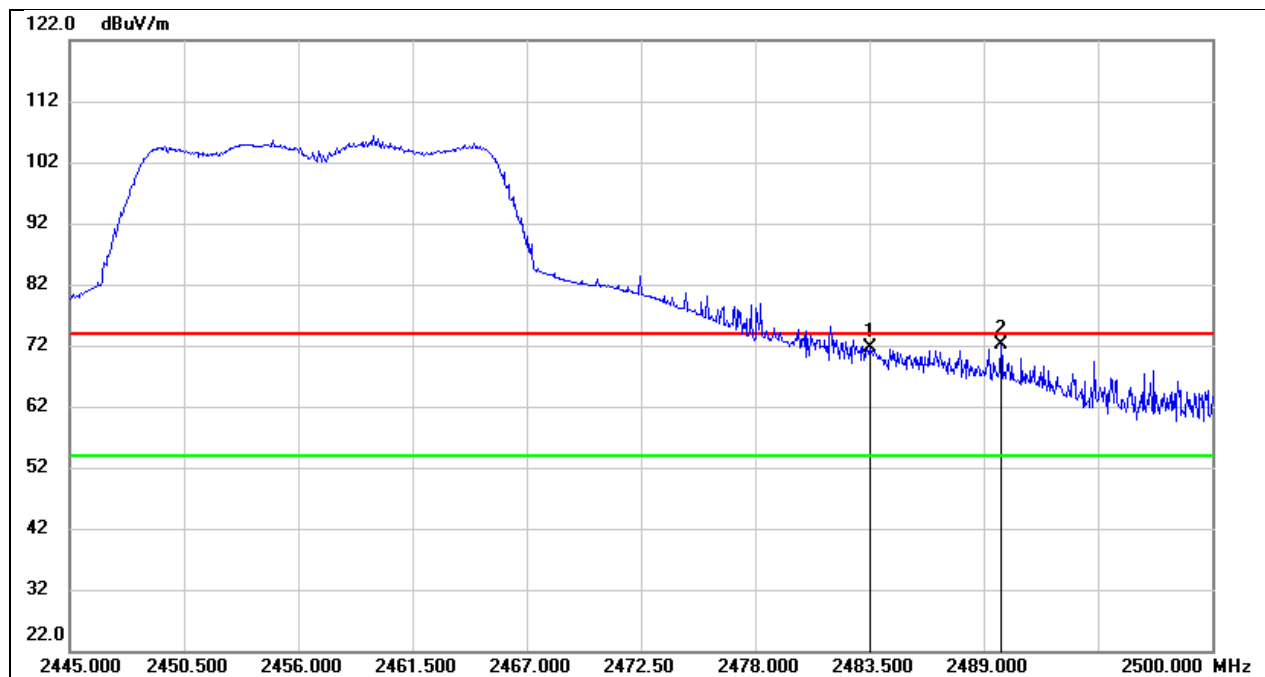
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	34.77	32.00	66.77	74.00	-7.23	peak
2	2484.700	40.42	32.00	72.42	74.00	-1.58	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



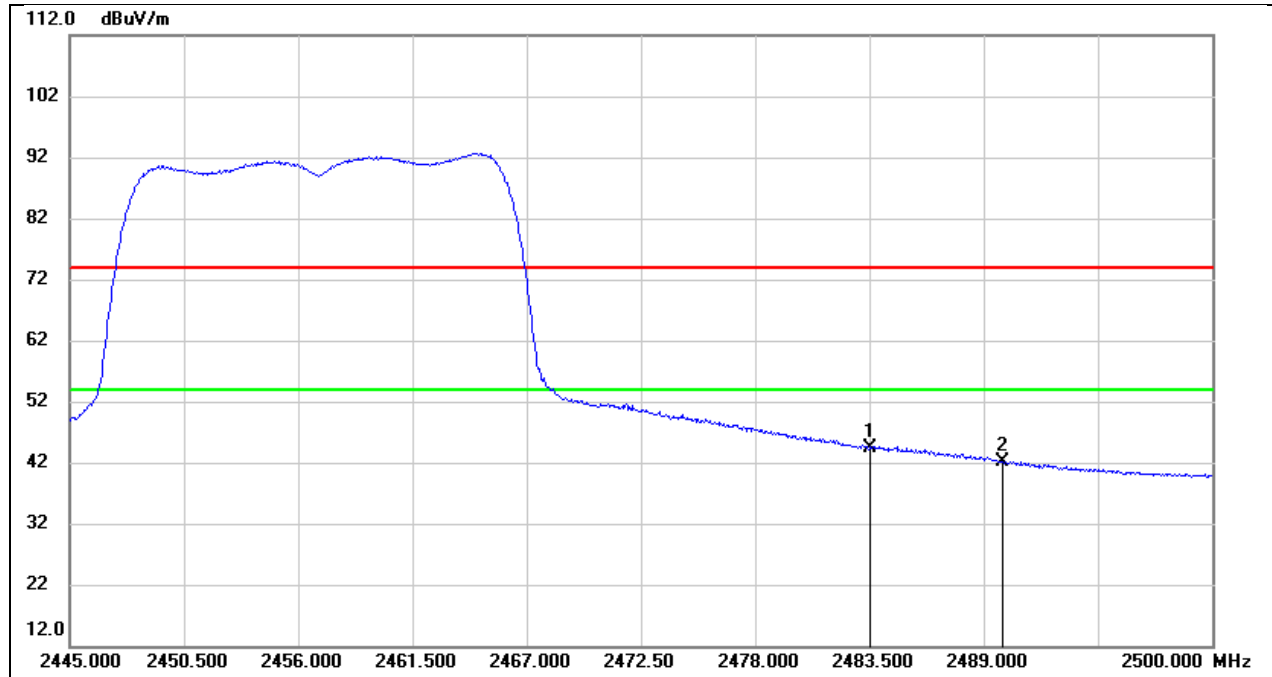
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	9.56	32.00	41.56	54.00	-12.44	AVG
2	2484.700	9.19	32.00	41.19	54.00	-12.81	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



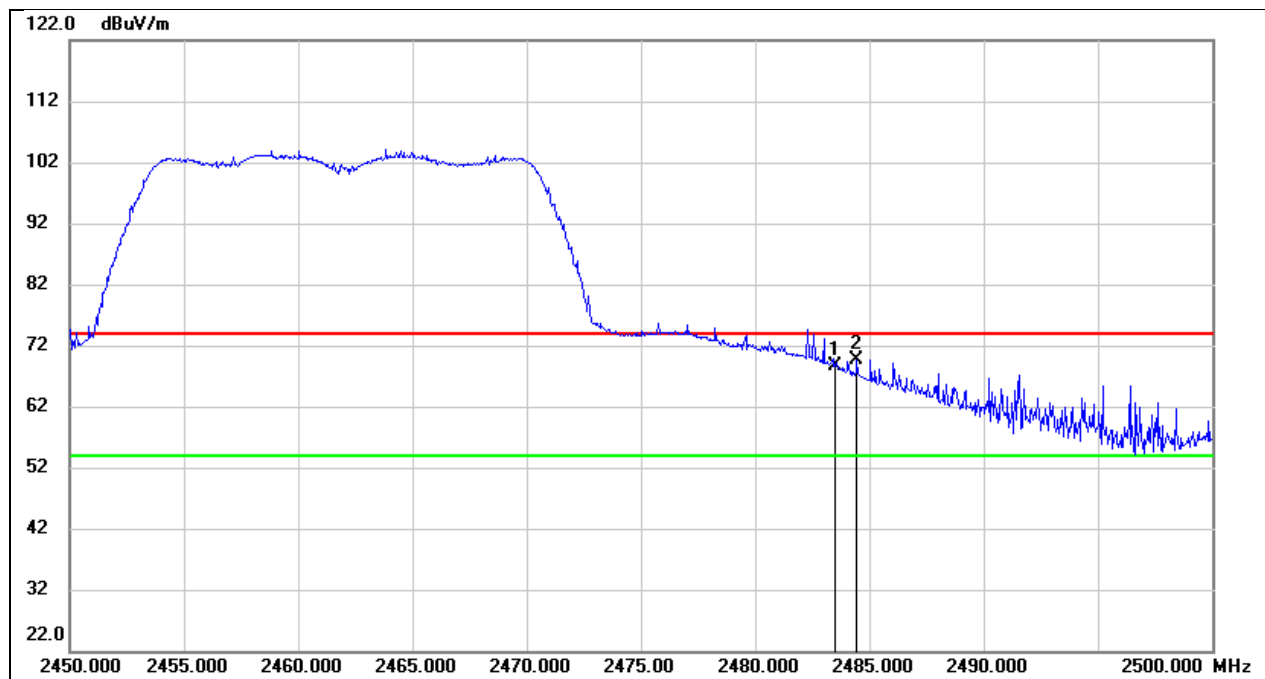
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	39.66	32.00	71.66	74.00	-2.34	peak
2	2489.825	40.15	32.01	72.16	74.00	-1.84	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



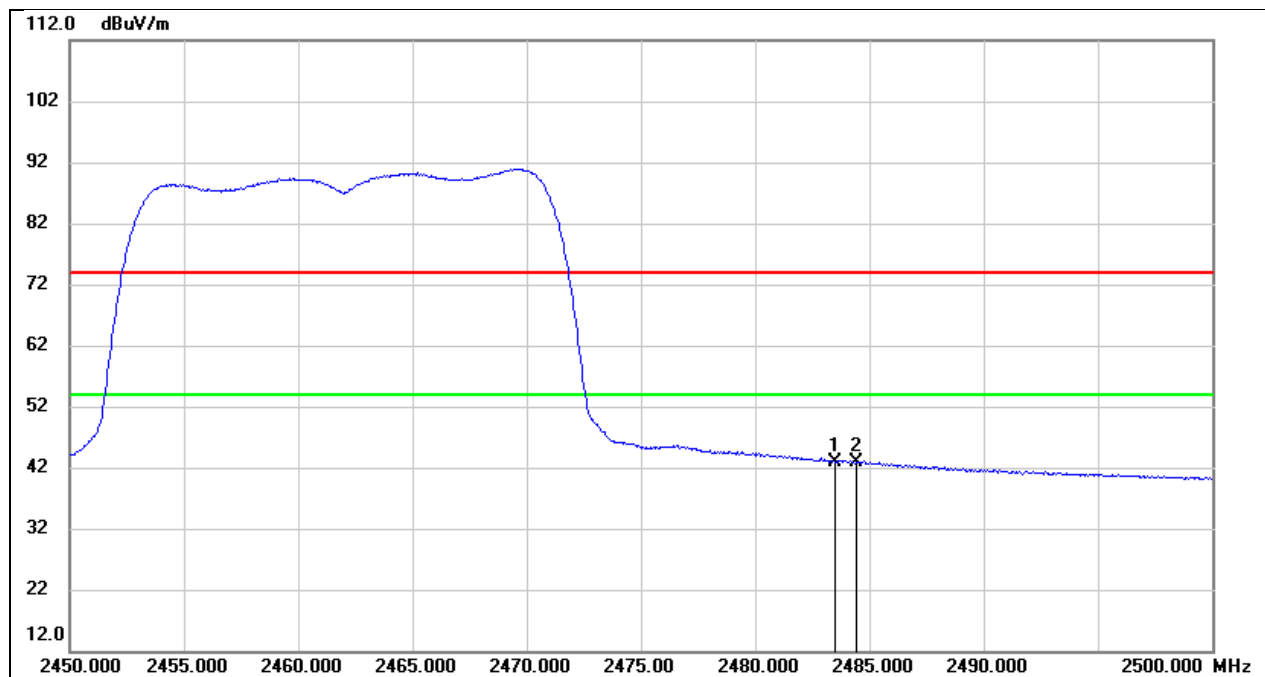
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.48	32.00	44.48	54.00	-9.52	AVG
2	2489.825	10.21	32.01	42.22	54.00	-11.78	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



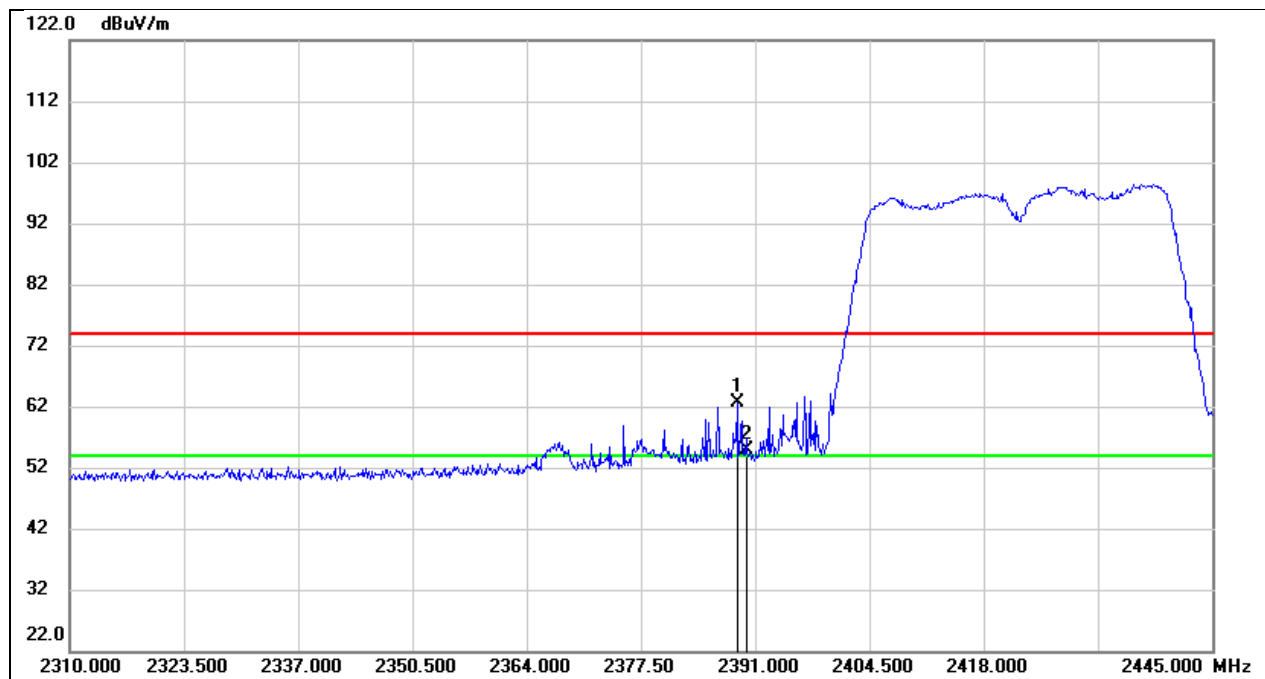
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.66	32.00	68.66	74.00	-5.34	peak
2	2484.450	37.61	32.00	69.61	74.00	-4.39	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



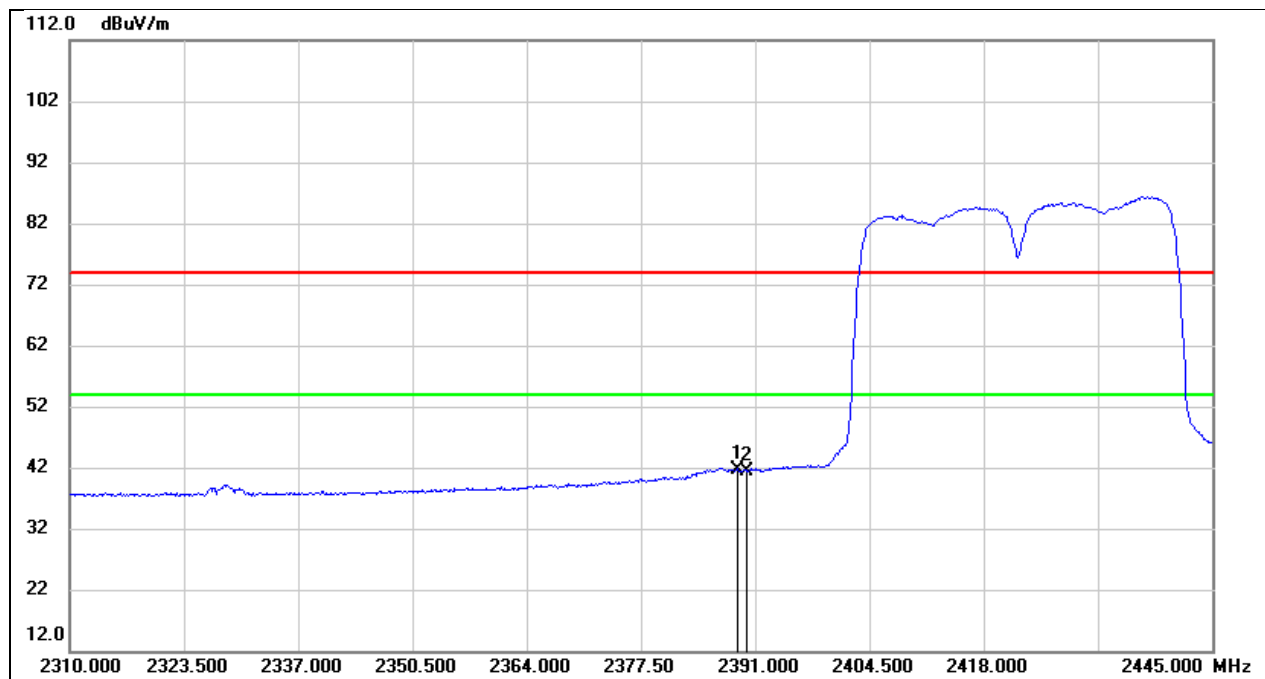
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	10.84	32.00	42.84	54.00	-11.16	AVG
2	2484.450	10.86	32.00	42.86	54.00	-11.14	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



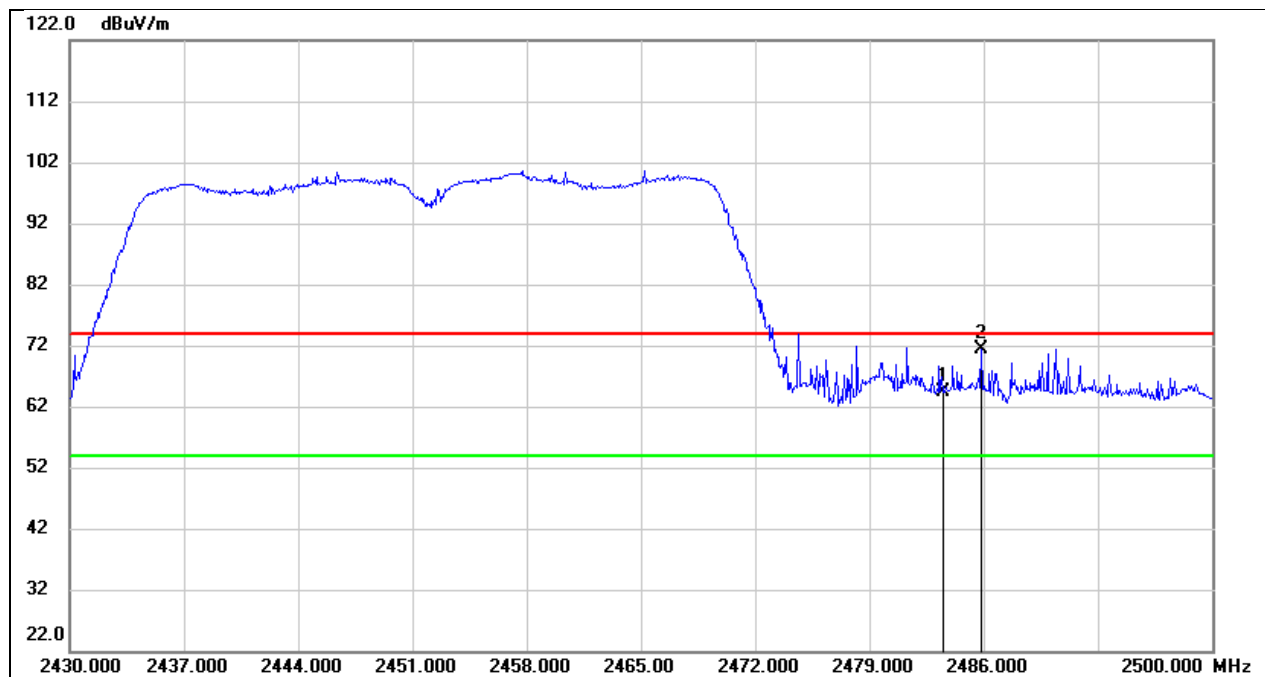
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.840	30.94	31.73	62.67	74.00	-11.33	peak
2	2390.000	23.11	31.73	54.84	74.00	-19.16	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



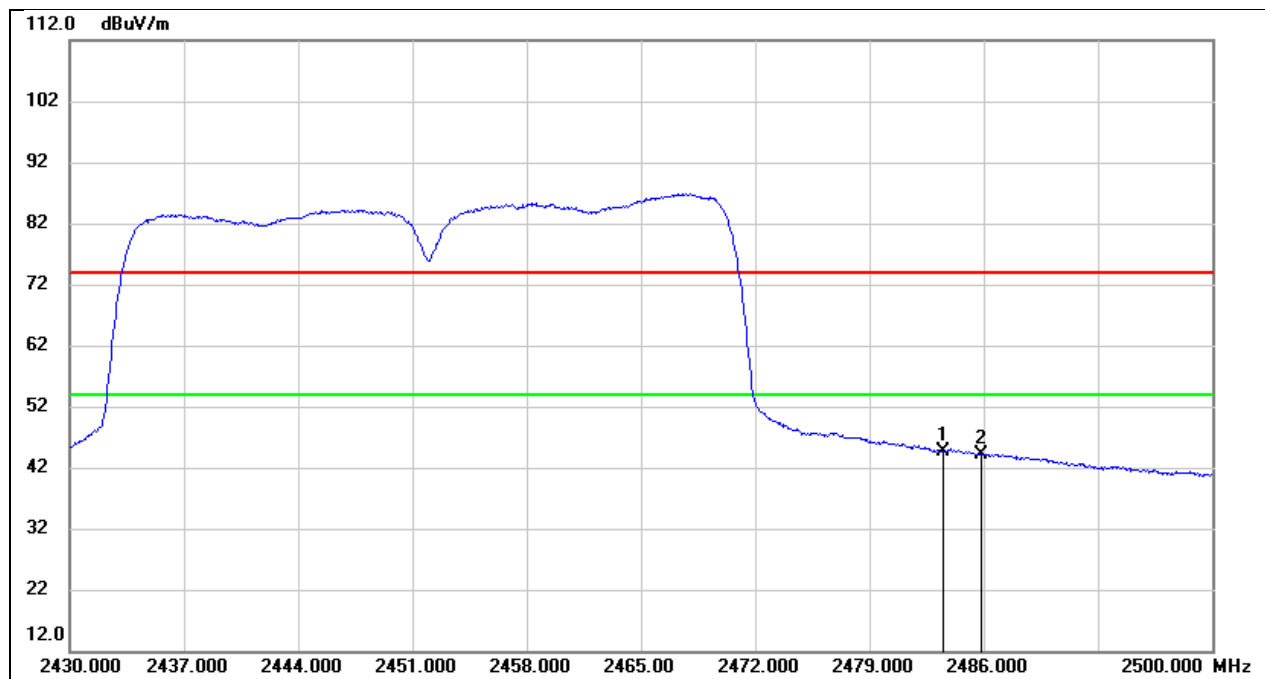
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.840	9.85	31.73	41.58	54.00	-12.42	AVG
2	2390.000	9.74	31.73	41.47	54.00	-12.53	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



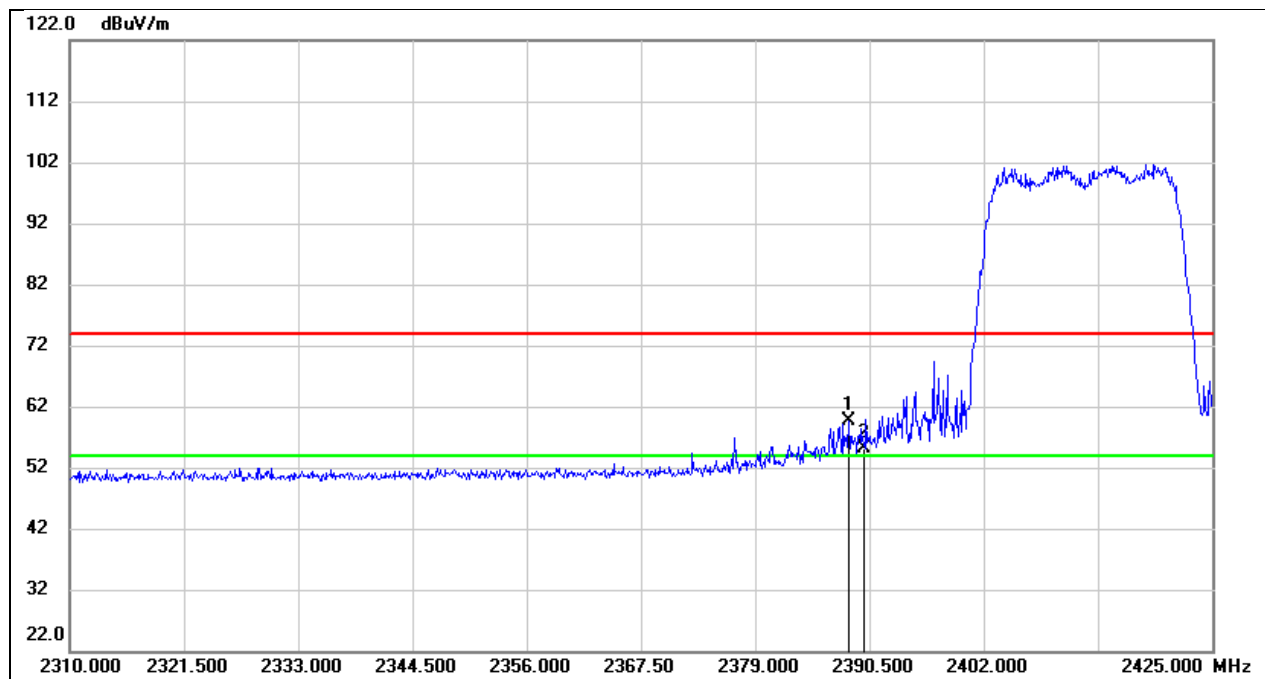
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.48	32.00	64.48	74.00	-9.52	peak
2	2485.860	39.46	32.00	71.46	74.00	-2.54	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



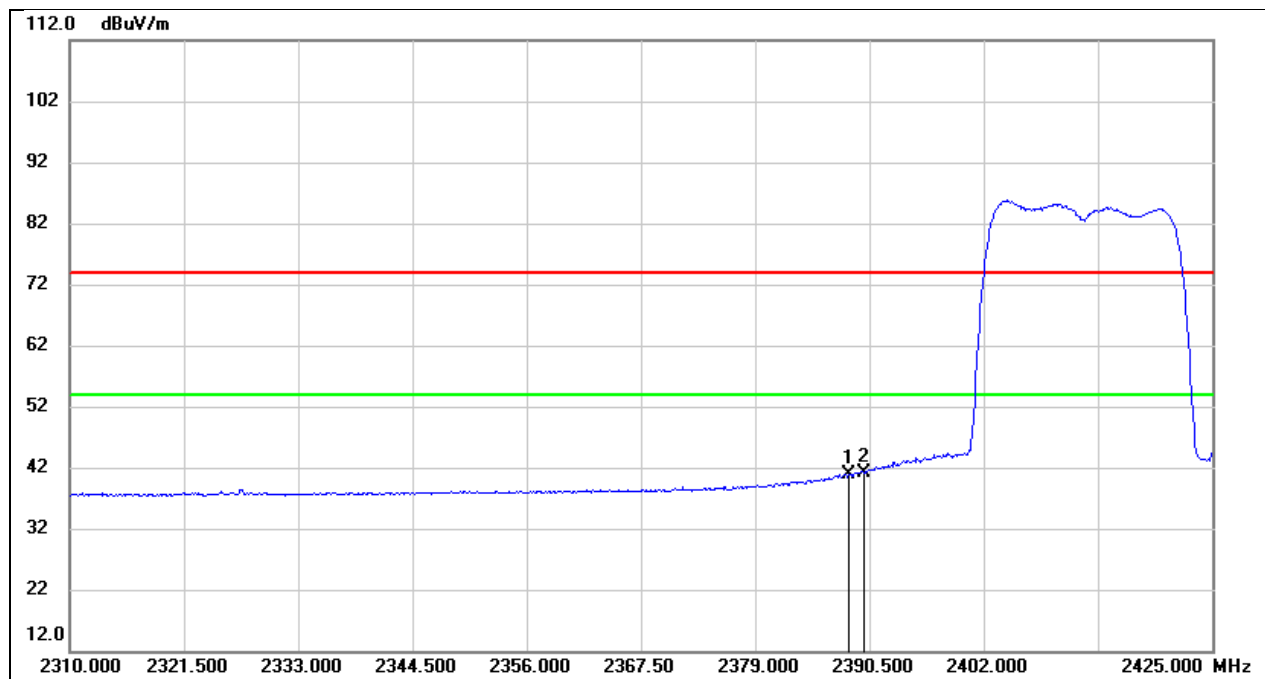
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.73	32.00	44.73	54.00	-9.27	AVG
2	2485.860	12.18	32.00	44.18	54.00	-9.82	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



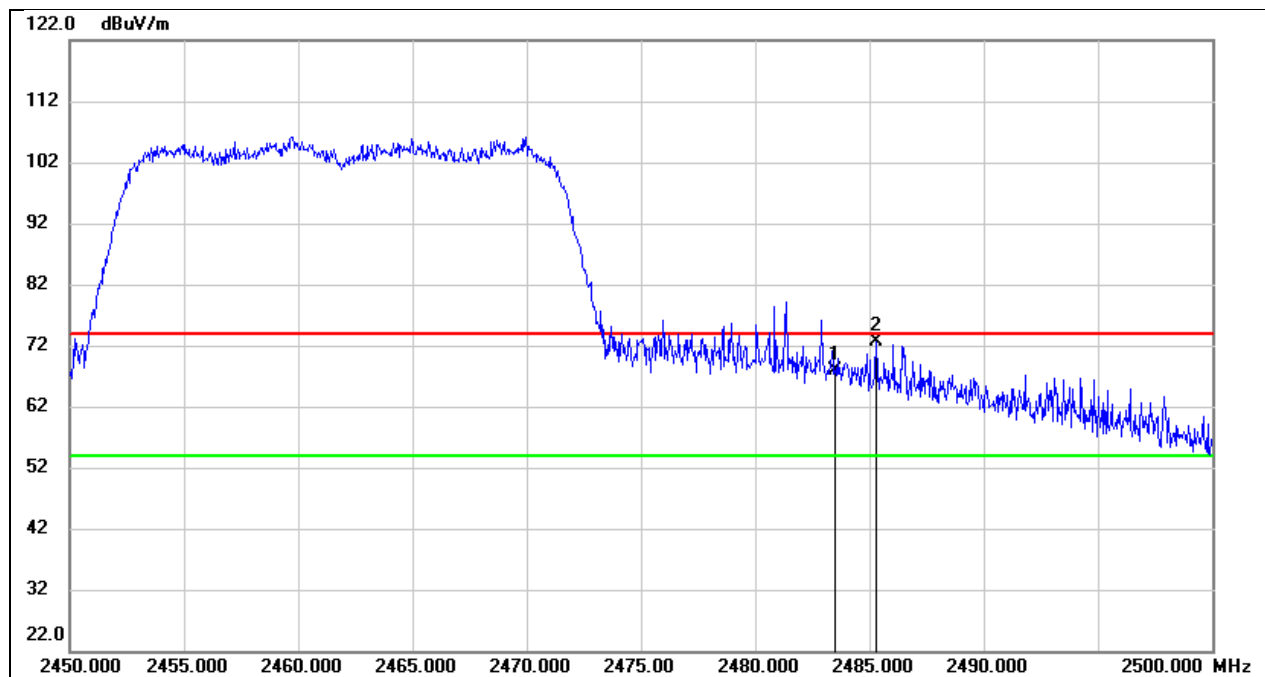
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.430	27.80	31.73	59.53	74.00	-14.47	peak
2	2390.000	23.37	31.73	55.10	74.00	-18.90	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



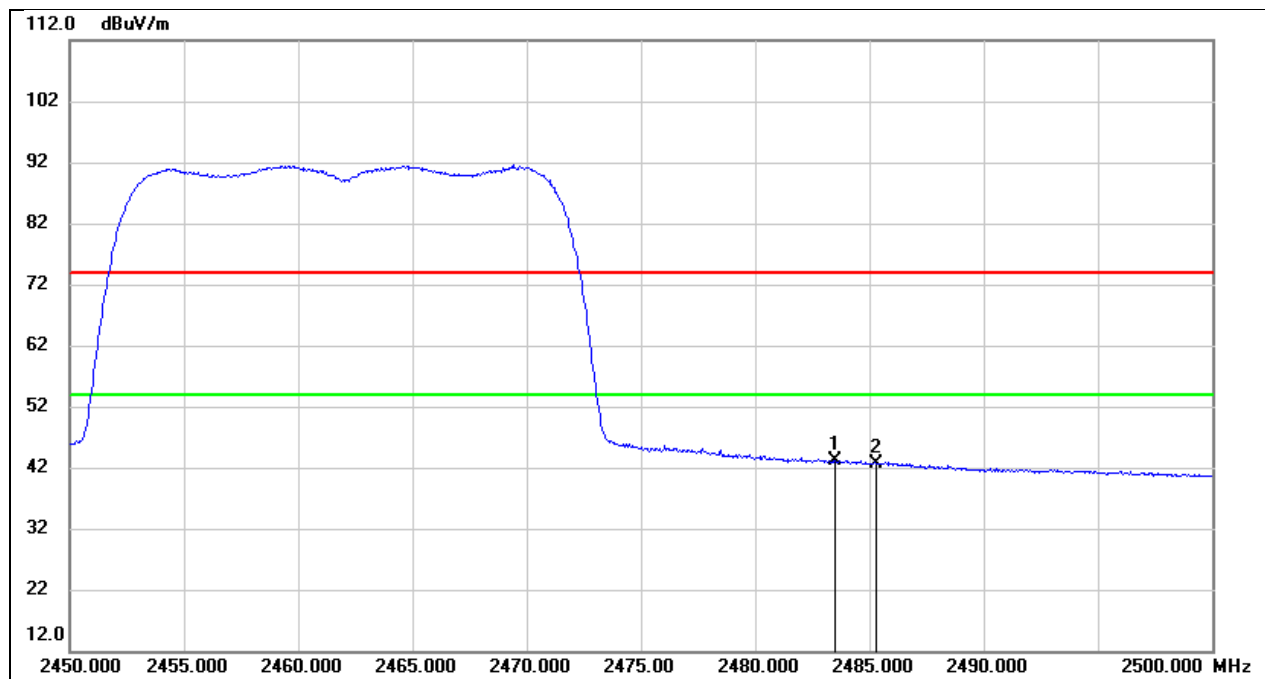
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.430	9.08	31.73	40.81	54.00	-13.19	AVG
2	2390.000	9.49	31.73	41.22	54.00	-12.78	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



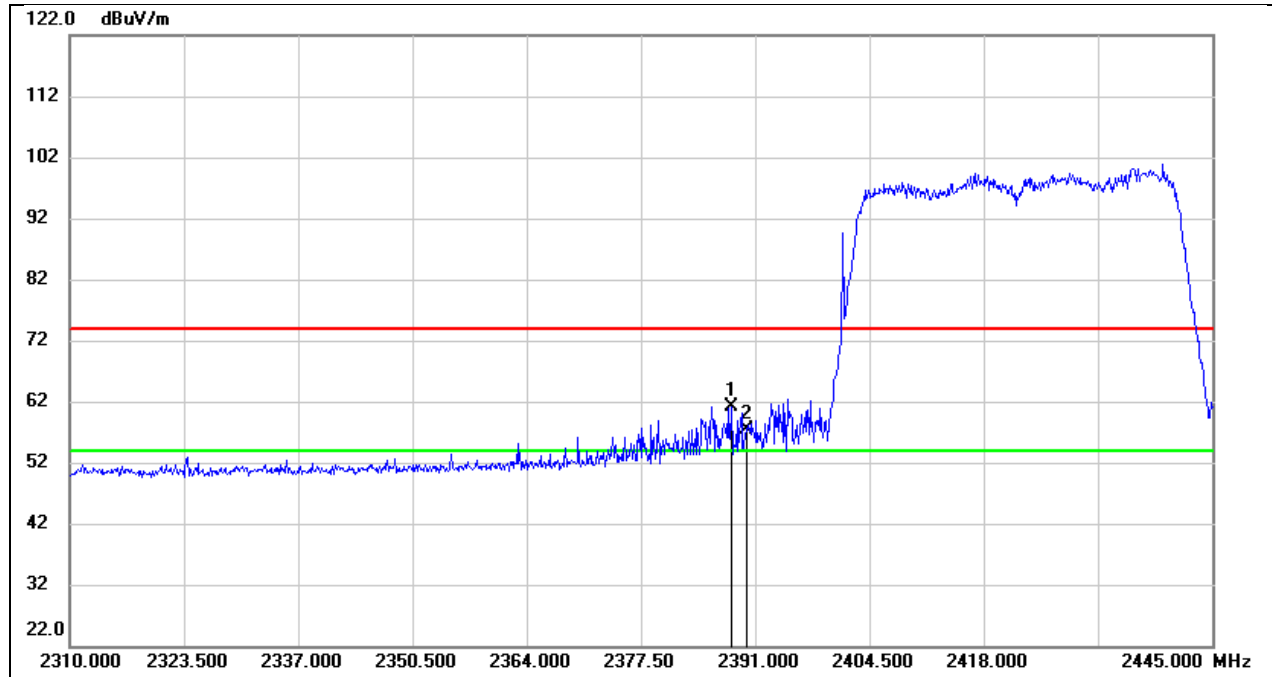
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.79	32.00	67.79	74.00	-6.21	peak
2	2485.300	40.66	32.00	72.66	74.00	-1.34	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



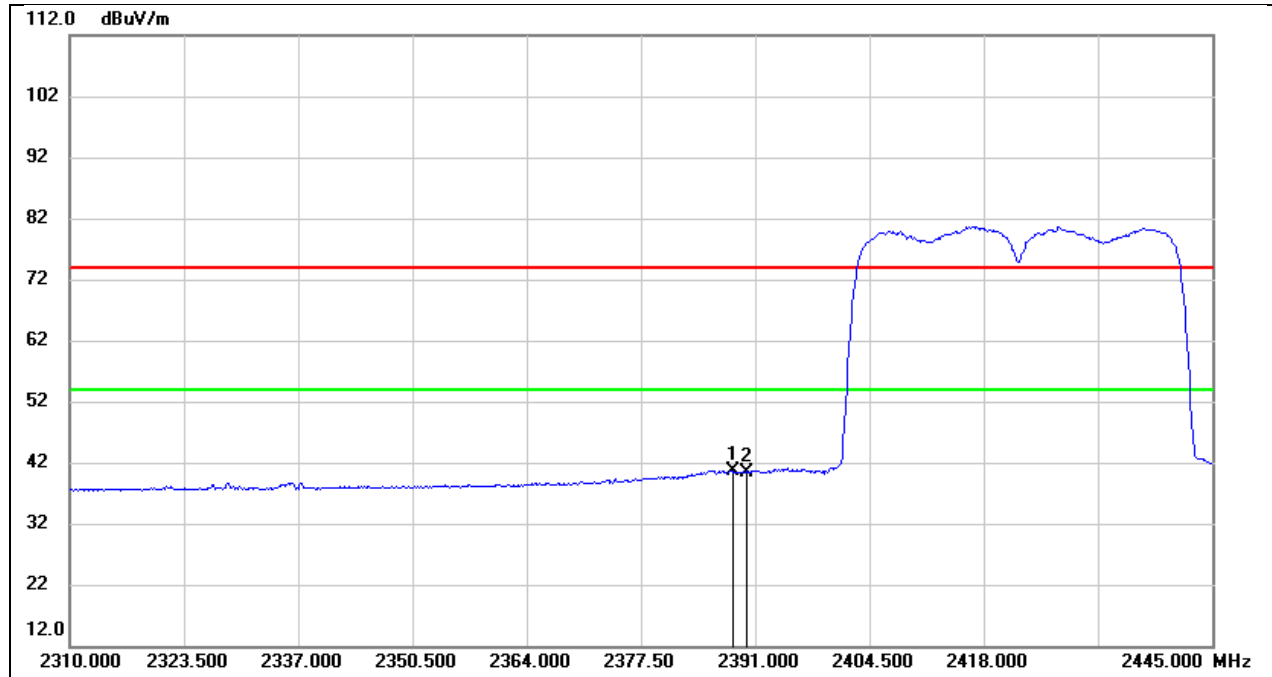
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	11.08	32.00	43.08	54.00	-10.92	AVG
2	2485.300	10.67	32.00	42.67	54.00	-11.33	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



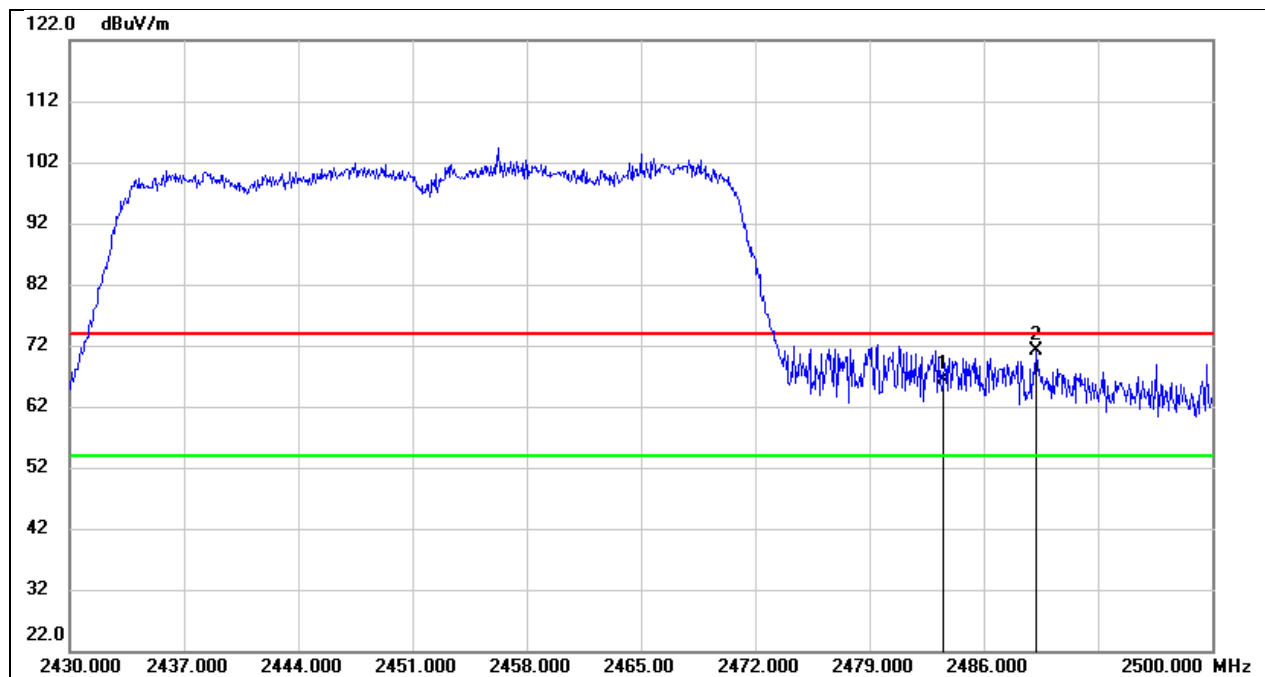
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.165	29.31	31.73	61.04	74.00	-12.96	peak
2	2390.000	25.62	31.73	57.35	74.00	-16.65	peak

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



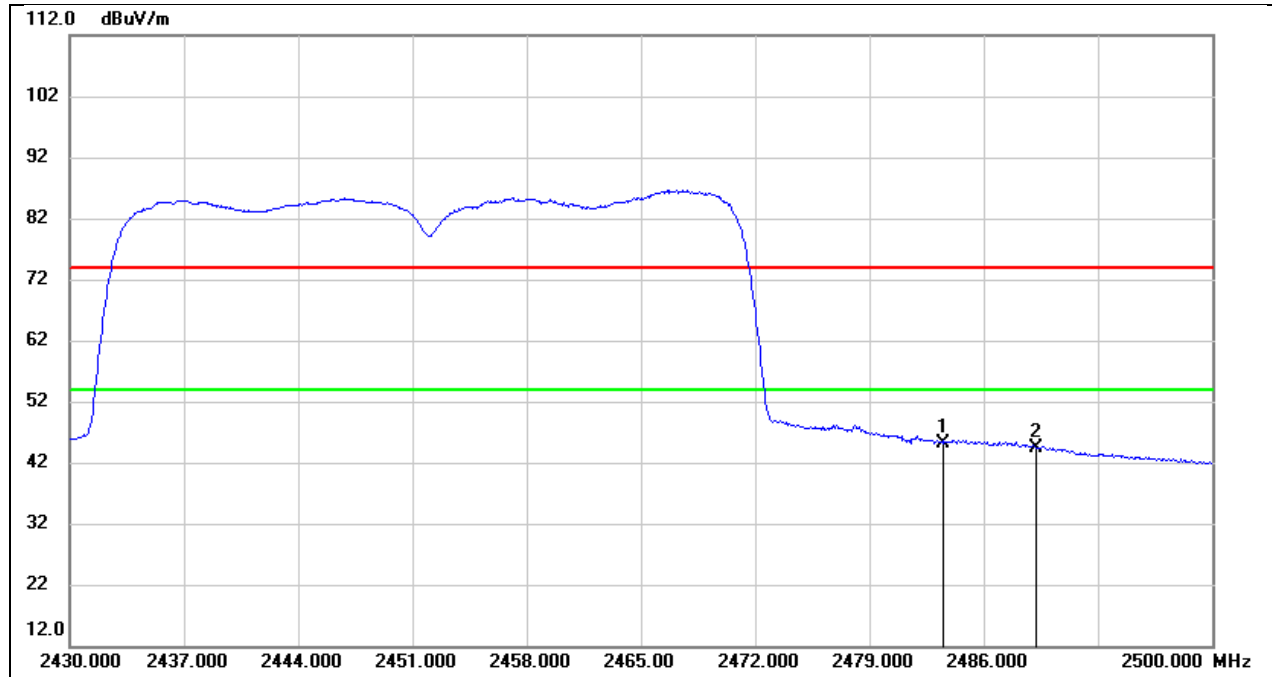
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.165	8.99	31.73	40.72	54.00	-13.28	AVG
2	2390.000	8.65	31.73	40.38	54.00	-13.62	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
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	34.40	32.00	66.40	74.00	-7.60	peak
2	2489.220	39.20	32.01	71.21	74.00	-2.79	peak

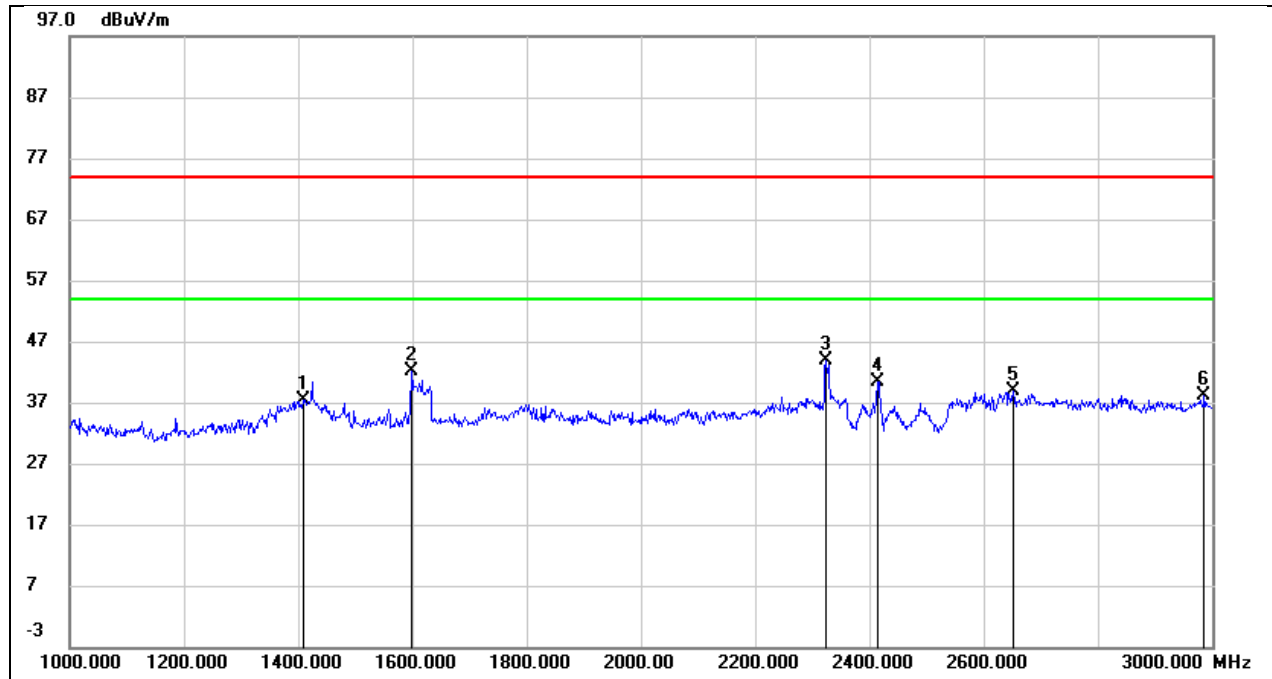
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	13.25	32.00	45.25	54.00	-8.75	AVG
2	2489.220	12.42	32.01	44.43	54.00	-9.57	AVG

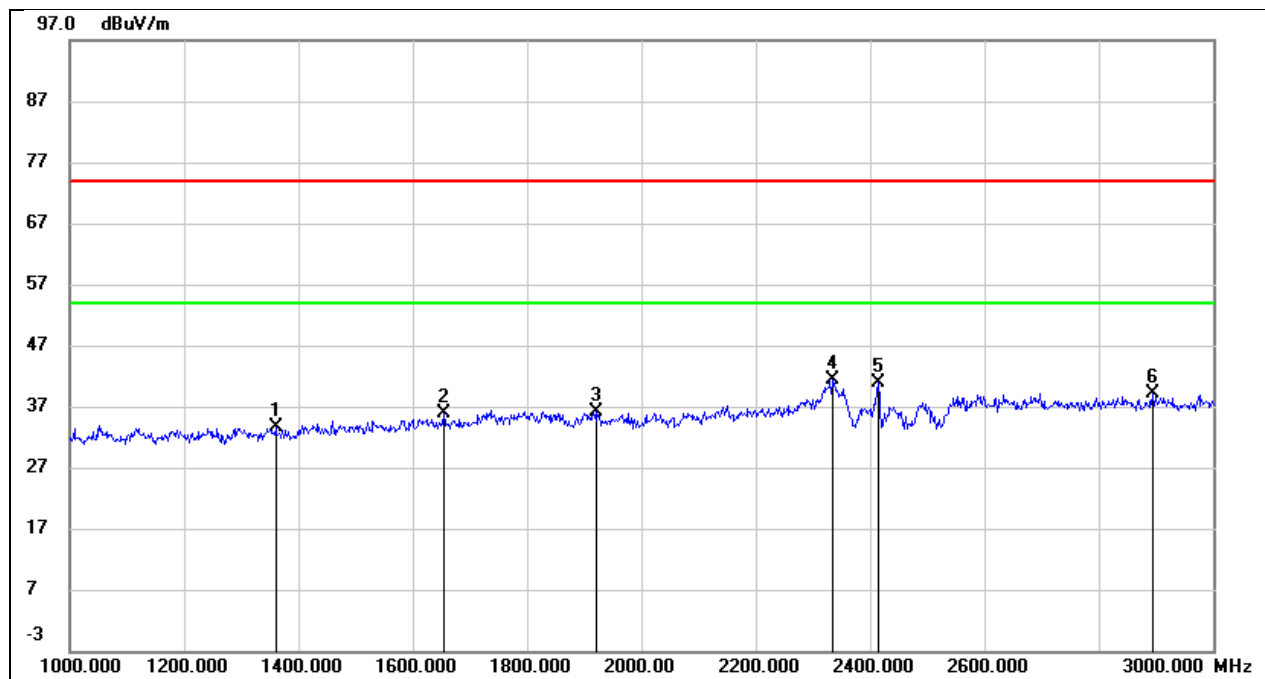
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



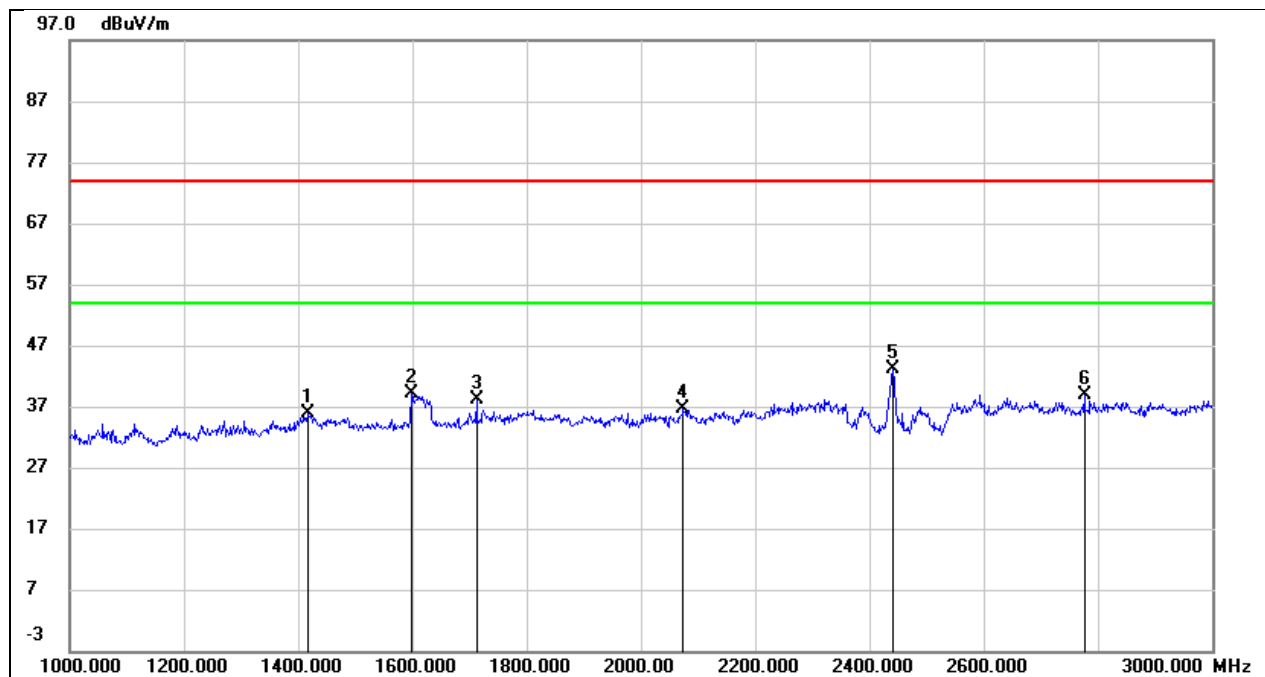
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1410.000	49.86	-12.40	37.46	74.00	-36.54	peak
2	1598.000	53.45	-11.39	42.06	74.00	-31.94	peak
3	2324.000	52.75	-8.88	43.87	74.00	-30.13	peak
4	2414.000	48.99	-8.53	40.46	74.00	-33.54	peak
5	2652.000	46.32	-7.54	38.78	74.00	-35.22	peak
6	2986.000	44.32	-6.08	38.24	74.00	-35.76	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



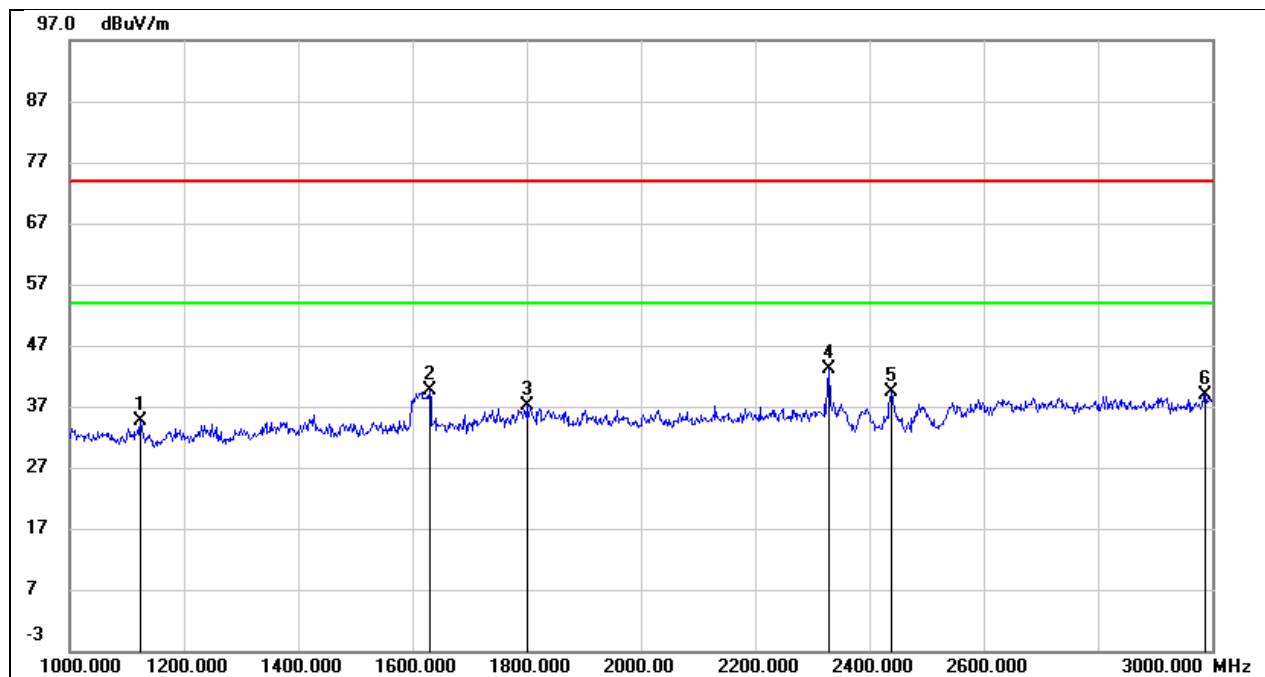
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1360.000	45.99	-12.39	33.60	74.00	-40.40	peak
2	1654.000	46.58	-10.65	35.93	74.00	-38.07	peak
3	1922.000	45.50	-9.28	36.22	74.00	-37.78	peak
4	2334.000	49.45	-8.01	41.44	74.00	-32.56	peak
5	2414.000	48.50	-7.71	40.79	74.00	-33.21	peak
6	2894.000	44.48	-5.29	39.19	74.00	-34.81	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



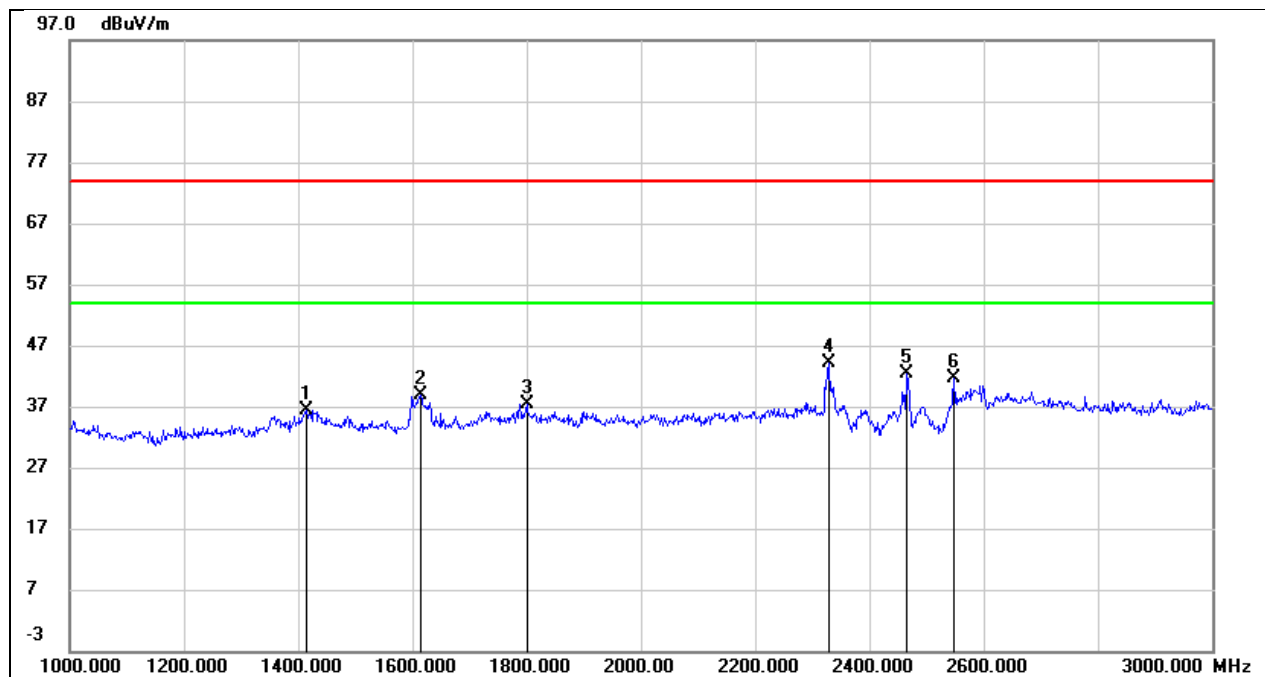
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1416.000	48.28	-12.37	35.91	74.00	-38.09	peak
2	1598.000	50.46	-11.39	39.07	74.00	-34.93	peak
3	1712.000	48.76	-10.58	38.18	74.00	-35.82	peak
4	2074.000	46.48	-9.82	36.66	74.00	-37.34	peak
5	2442.000	51.62	-8.43	43.19	74.00	-30.81	peak
6	2776.000	45.79	-7.01	38.78	74.00	-35.22	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



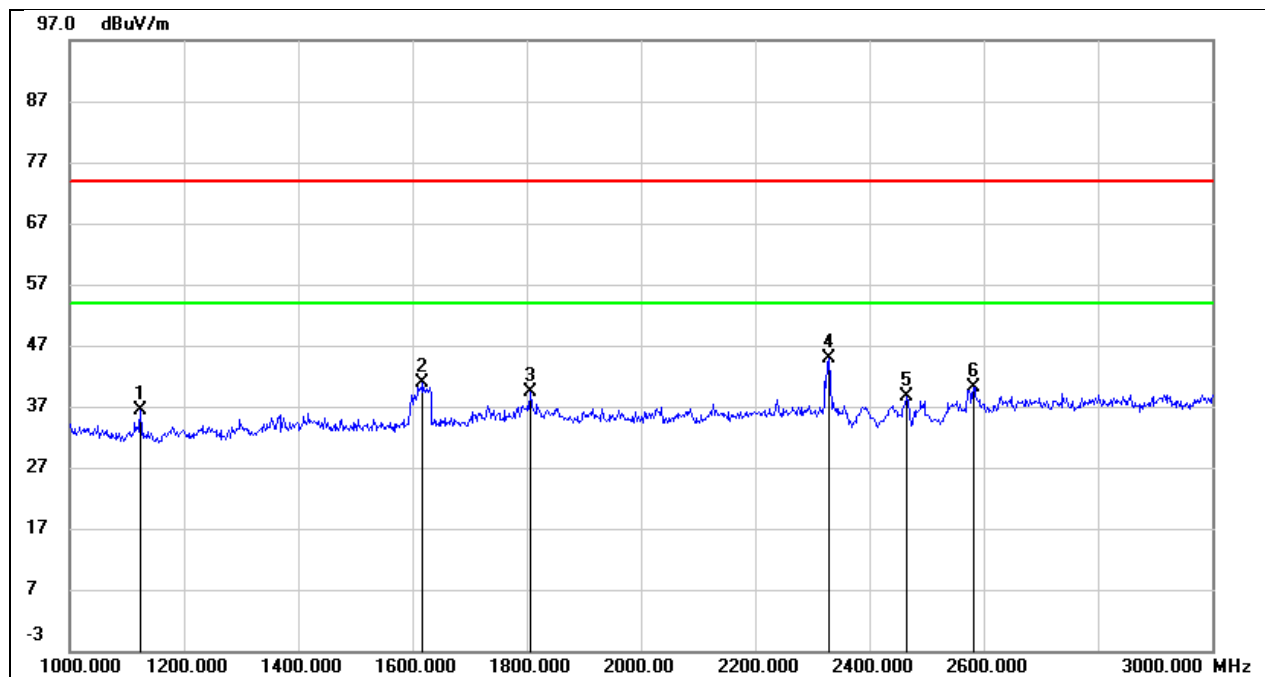
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1124.000	48.03	-13.30	34.73	74.00	-39.27	peak
2	1630.000	50.48	-10.86	39.62	74.00	-34.38	peak
3	1800.000	46.55	-9.38	37.17	74.00	-36.83	peak
4	2330.000	51.04	-8.02	43.02	74.00	-30.98	peak
5	2438.000	47.01	-7.63	39.38	74.00	-34.62	peak
6	2988.000	43.75	-4.78	38.97	74.00	-35.03	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	1414.000	48.76	-12.38	36.38	74.00	-37.62	peak
2	1614.000	50.20	-11.28	38.92	74.00	-35.08	peak
3	1800.000	47.36	-9.96	37.40	74.00	-36.60	peak
4	2328.000	53.02	-8.85	44.17	74.00	-29.83	peak
5	2466.000	50.66	-8.34	42.32	74.00	-31.68	peak
6	2548.000	49.54	-8.00	41.54	74.00	-32.46	peak

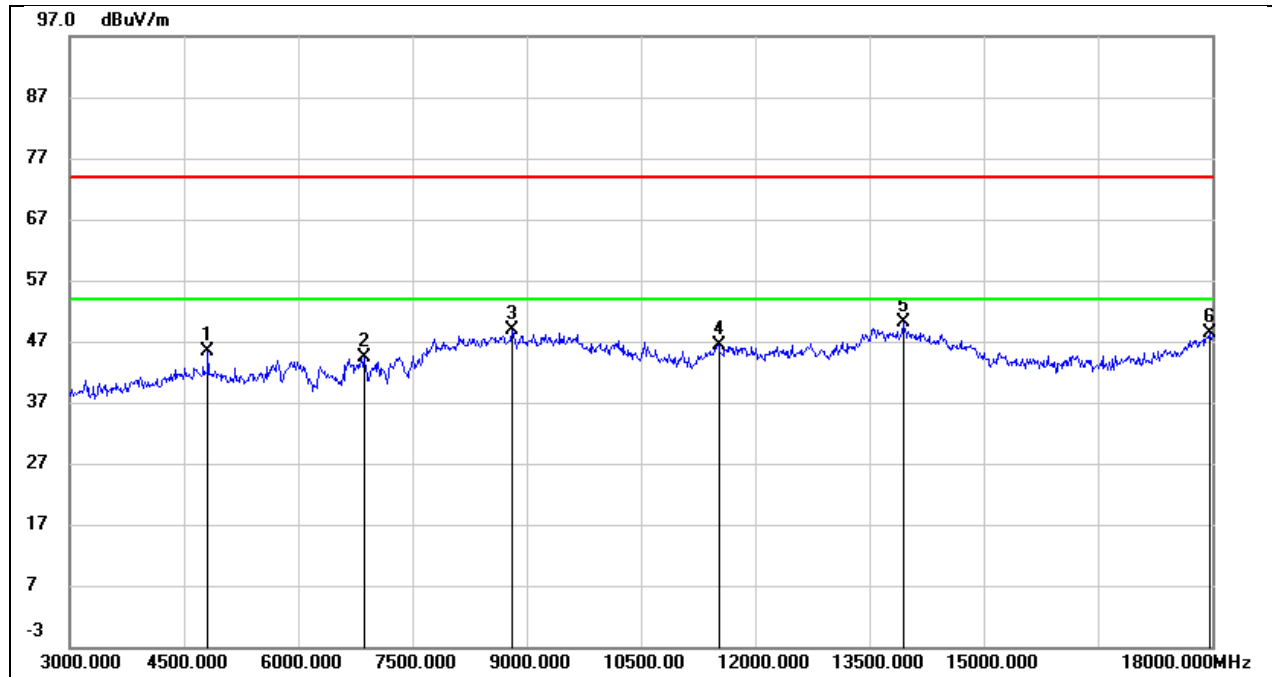
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1124.000	49.57	-13.30	36.27	74.00	-37.73	peak
2	1618.000	51.81	-10.97	40.84	74.00	-33.16	peak
3	1806.000	48.87	-9.38	39.49	74.00	-34.51	peak
4	2330.000	53.00	-8.02	44.98	74.00	-29.02	peak
5	2466.000	46.10	-7.53	38.57	74.00	-35.43	peak
6	2582.000	47.16	-6.95	40.21	74.00	-33.79	peak

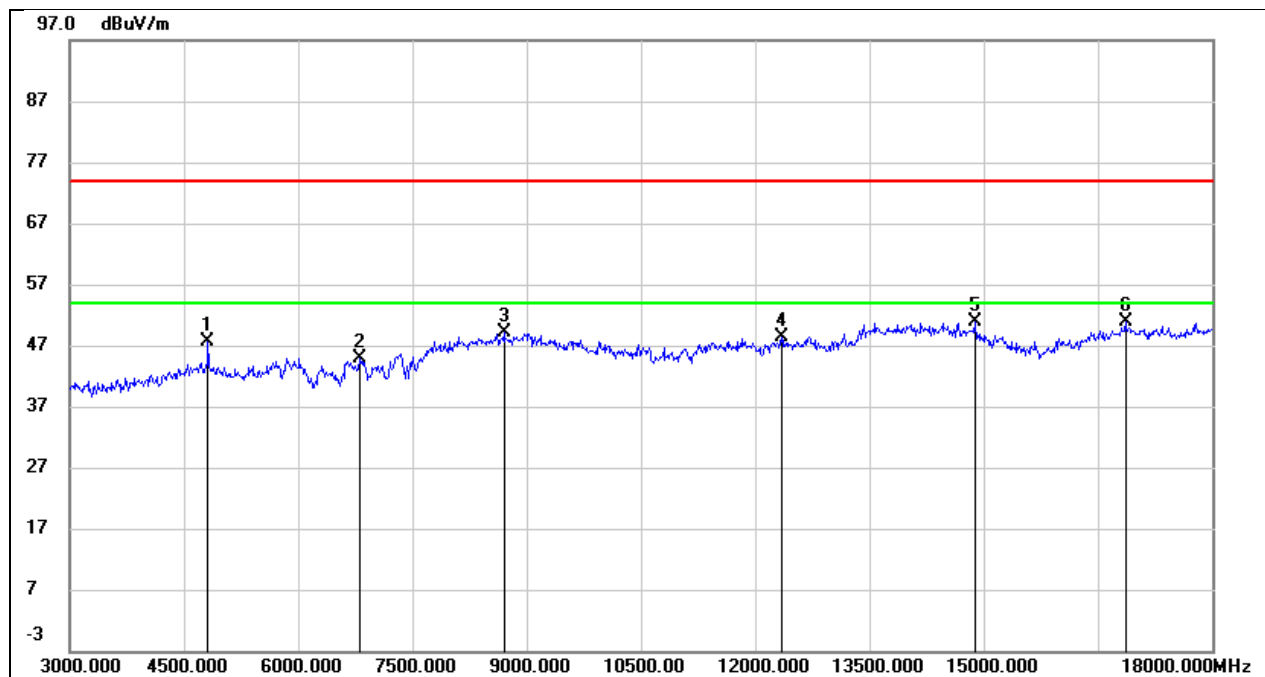
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



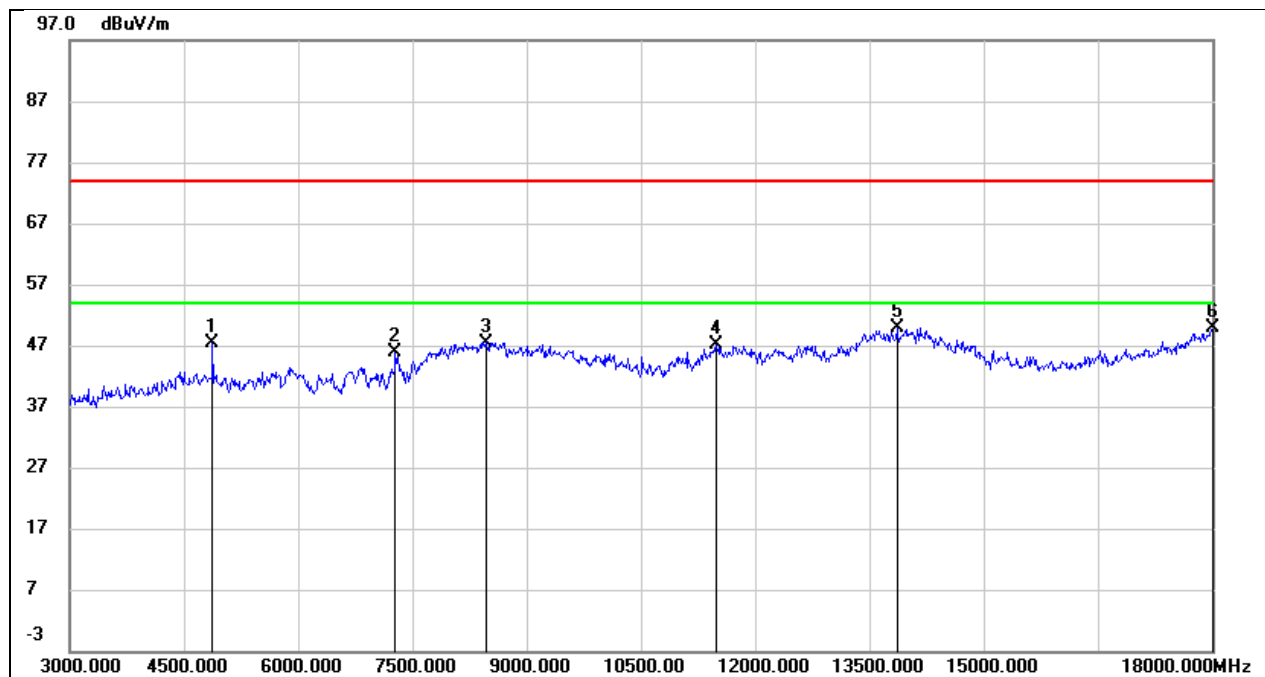
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	44.91	0.50	45.41	74.00	-28.59	peak
2	6870.000	38.35	6.04	44.39	74.00	-29.61	peak
3	8805.000	39.21	9.58	48.79	74.00	-25.21	peak
4	11520.000	28.33	18.01	46.34	74.00	-27.66	peak
5	13950.000	26.50	23.58	50.08	74.00	-23.92	peak
6	17970.000	19.05	29.33	48.38	74.00	-25.62	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



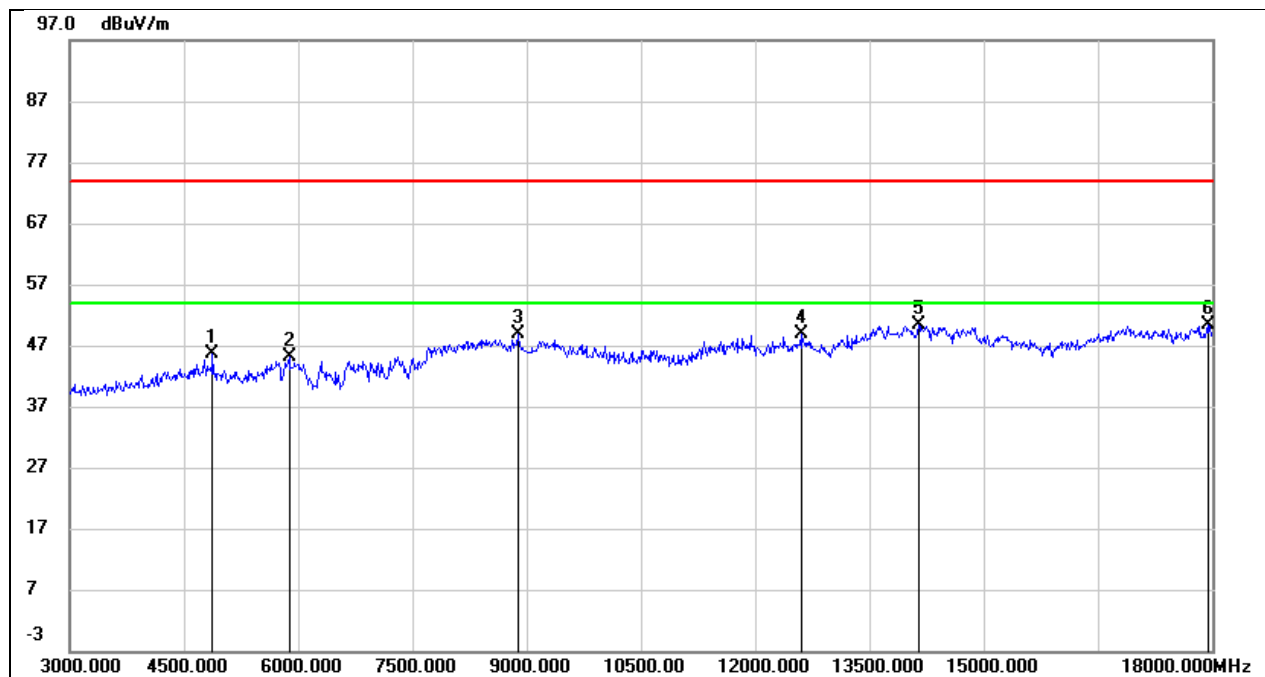
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	46.04	1.59	47.63	74.00	-26.37	peak
2	6810.000	38.03	6.77	44.80	74.00	-29.20	peak
3	8700.000	39.14	9.95	49.09	74.00	-24.91	peak
4	12345.000	30.55	17.94	48.49	74.00	-25.51	peak
5	14880.000	30.08	20.72	50.80	74.00	-23.20	peak
6	16860.000	25.76	25.00	50.76	74.00	-23.24	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



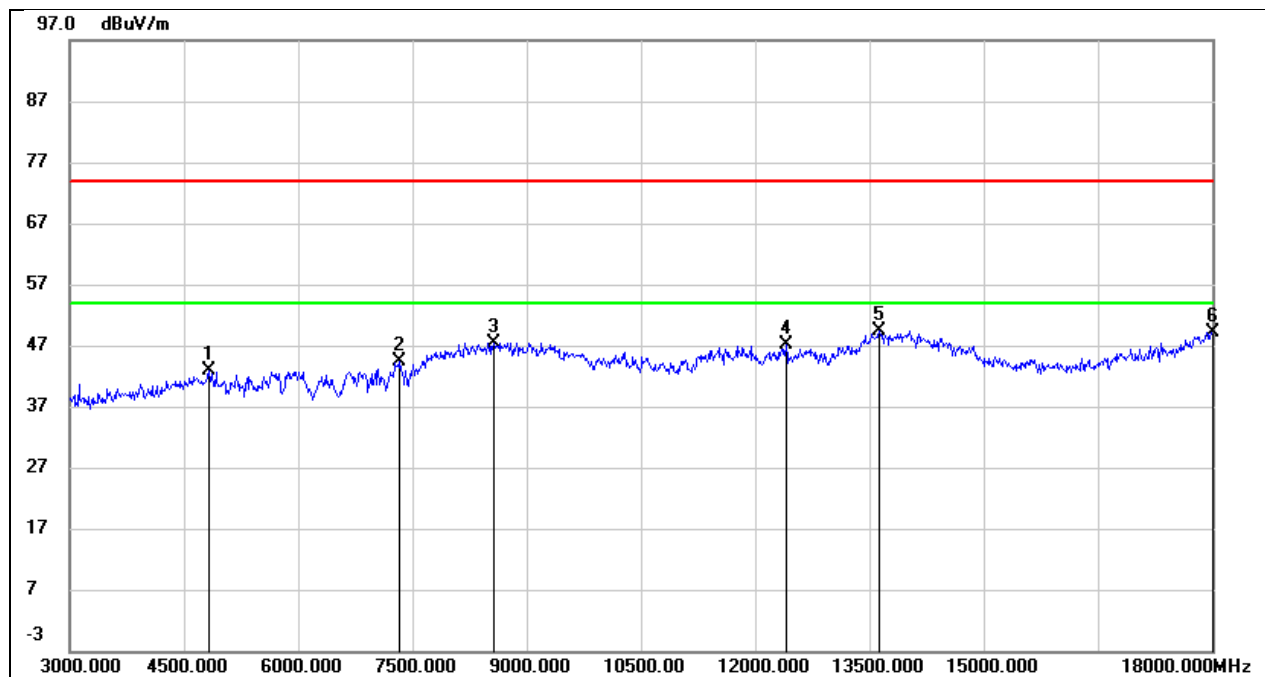
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	46.71	0.65	47.36	74.00	-26.64	peak
2	7275.000	38.98	6.99	45.97	74.00	-28.03	peak
3	8460.000	38.52	8.98	47.50	74.00	-26.50	peak
4	11490.000	29.22	17.94	47.16	74.00	-26.84	peak
5	13860.000	26.64	23.19	49.83	74.00	-24.17	peak
6	18000.000	20.14	29.64	49.78	74.00	-24.22	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



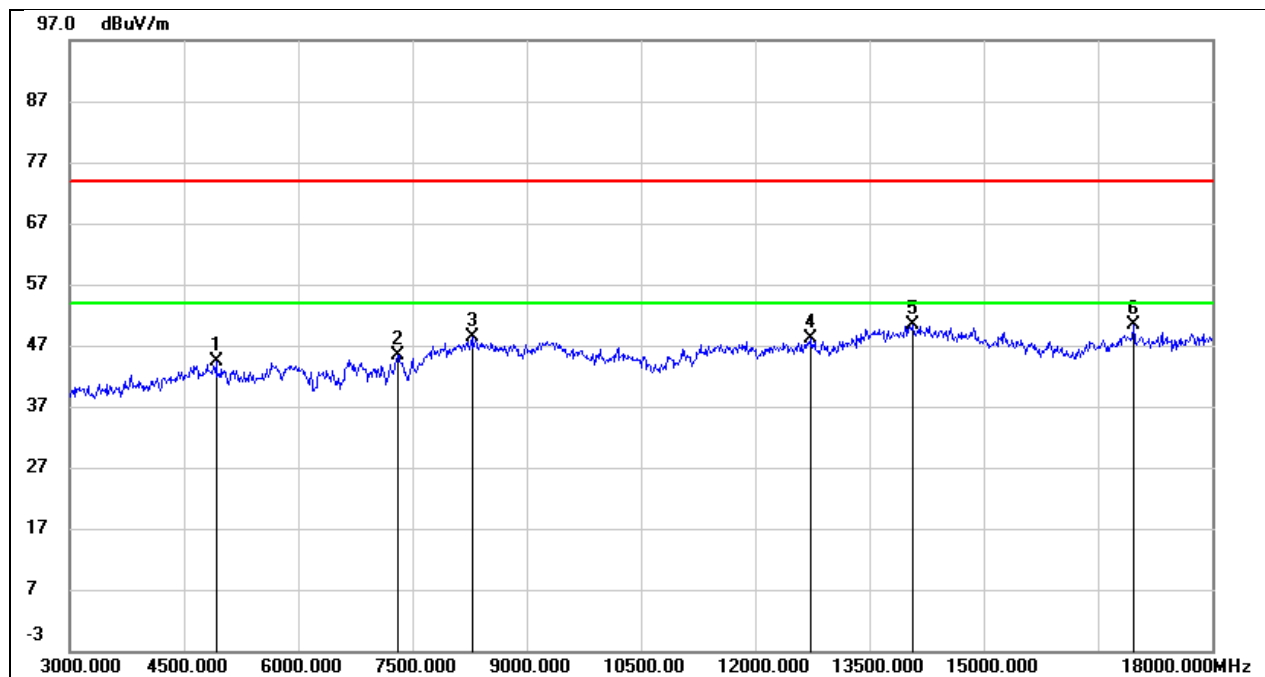
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	43.92	1.78	45.70	74.00	-28.30	peak
2	5880.000	41.13	3.95	45.08	74.00	-28.92	peak
3	8880.000	38.74	10.25	48.99	74.00	-25.01	peak
4	12600.000	30.84	18.01	48.85	74.00	-25.15	peak
5	14145.000	28.11	22.24	50.35	74.00	-23.65	peak
6	17940.000	23.23	27.10	50.33	74.00	-23.67	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	4830.000	42.34	0.54	42.88	74.00	-31.12	peak
2	7335.000	37.35	7.07	44.42	74.00	-29.58	peak
3	8565.000	38.16	9.21	47.37	74.00	-26.63	peak
4	12405.000	28.05	18.97	47.02	74.00	-26.98	peak
5	13635.000	26.81	22.68	49.49	74.00	-24.51	peak
6	18000.000	19.61	29.64	49.25	74.00	-24.75	peak

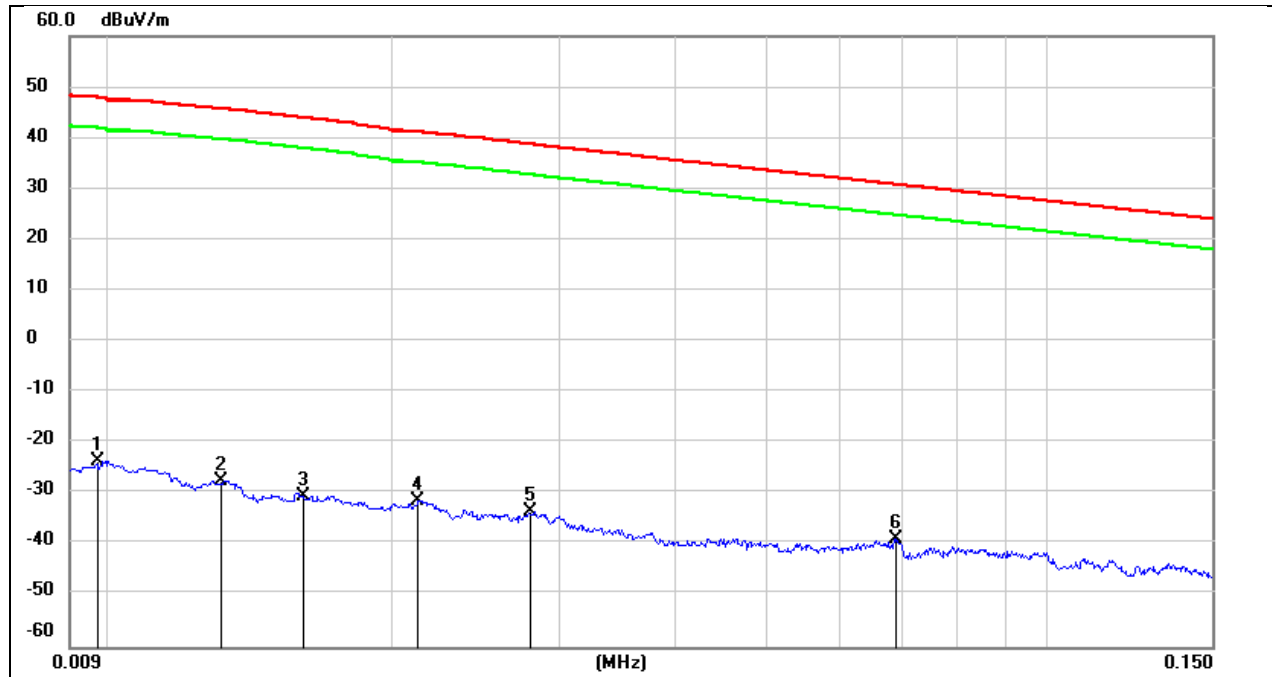
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	42.47	1.91	44.38	74.00	-29.62	peak
2	7305.000	37.81	7.68	45.49	74.00	-28.51	peak
3	8280.000	39.07	9.23	48.30	74.00	-25.70	peak
4	12735.000	29.82	18.29	48.11	74.00	-25.89	peak
5	14070.000	28.06	22.23	50.29	74.00	-23.71	peak
6	16965.000	25.27	25.14	50.41	74.00	-23.59	peak

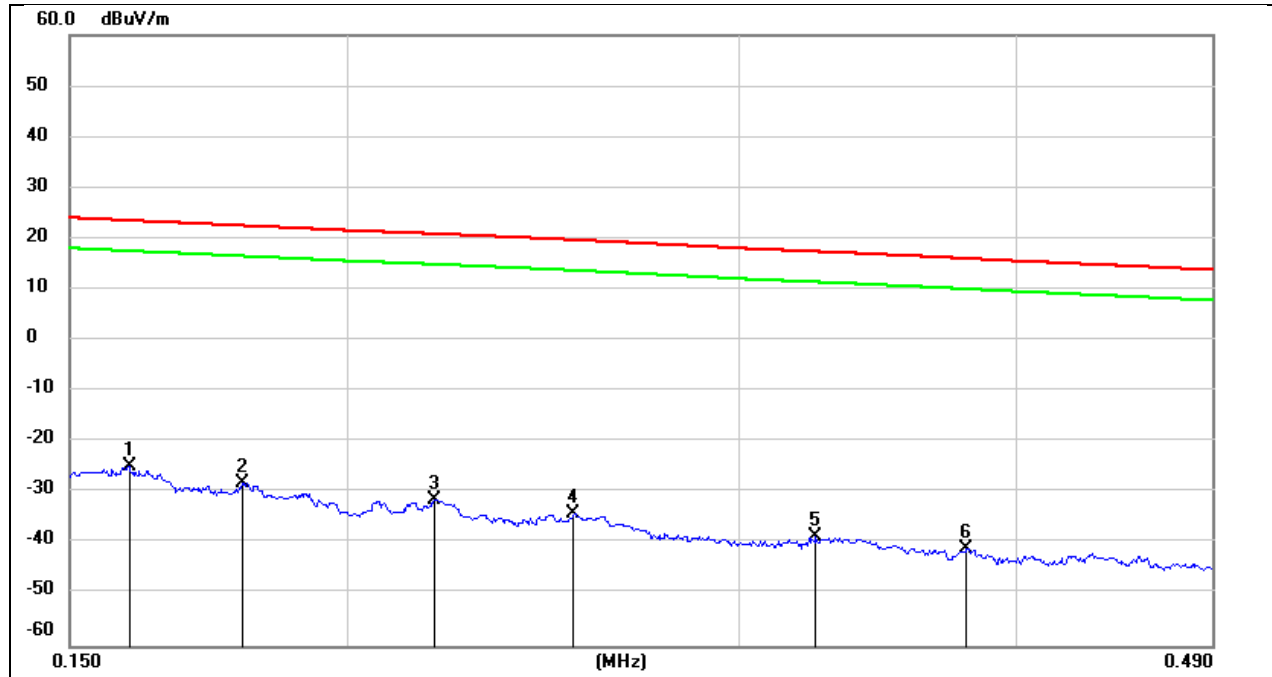
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



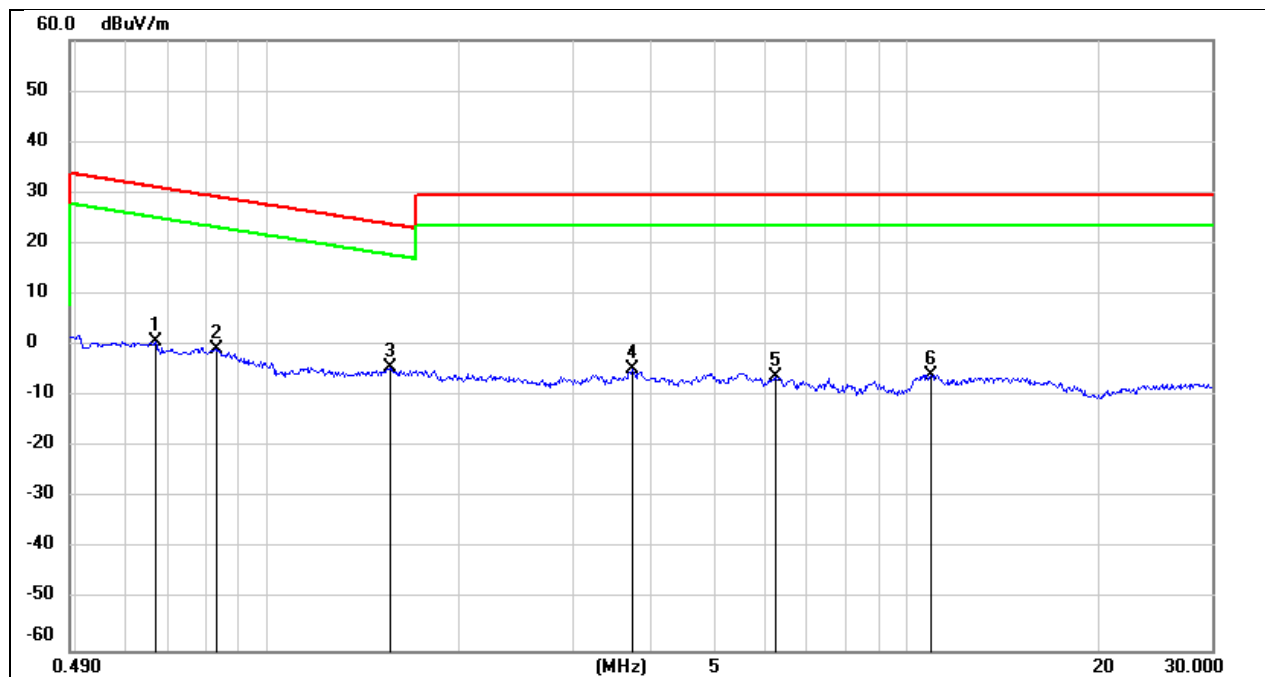
No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0097	77.93	-101.38	-23.45	47.83	-71.28	peak
2	0.0131	73.97	-101.38	-27.41	45.73	-73.14	peak
3	0.0160	70.97	-101.37	-30.40	43.99	-74.39	peak
4	0.0212	70.04	-101.35	-31.31	41.16	-72.47	peak
5	0.0280	67.79	-101.38	-33.59	38.76	-72.35	peak
6	0.0687	62.69	-101.56	-38.87	30.87	-69.74	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1595	76.86	-101.65	-24.79	23.55	-48.34	peak
2	0.1794	73.77	-101.68	-27.91	22.53	-50.44	peak
3	0.2190	70.27	-101.75	-31.48	20.91	-52.39	peak
4	0.2530	67.64	-101.80	-34.16	19.71	-53.87	peak
5	0.3251	63.21	-101.88	-38.67	17.43	-56.10	peak
6	0.3800	61.02	-101.94	-40.92	16.06	-56.98	peak

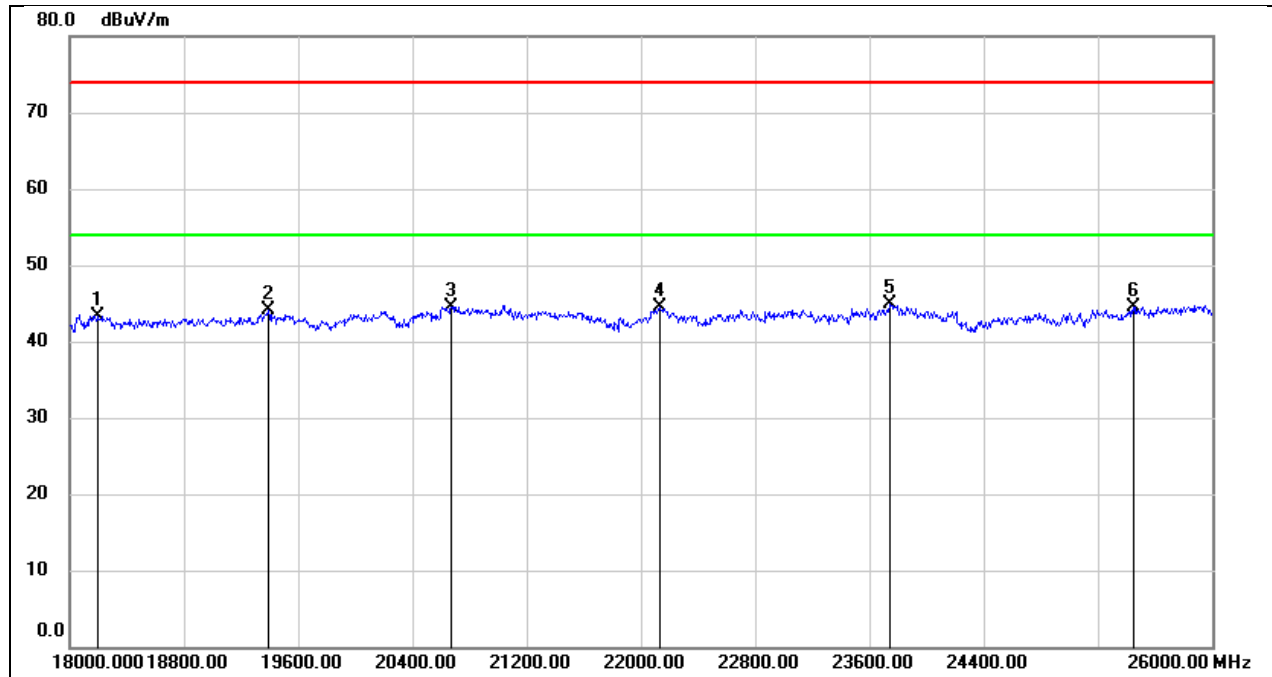
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.6671	62.75	-62.10	0.65	31.14	-30.49	peak
2	0.8296	61.44	-62.17	-0.73	29.24	-29.97	peak
3	1.5564	57.68	-62.02	-4.34	23.76	-28.10	peak
4	3.7100	56.70	-61.41	-4.71	29.54	-34.25	peak
5	6.2445	55.13	-61.32	-6.19	29.54	-35.73	peak
6	10.9365	55.00	-60.84	-5.84	29.54	-35.38	peak

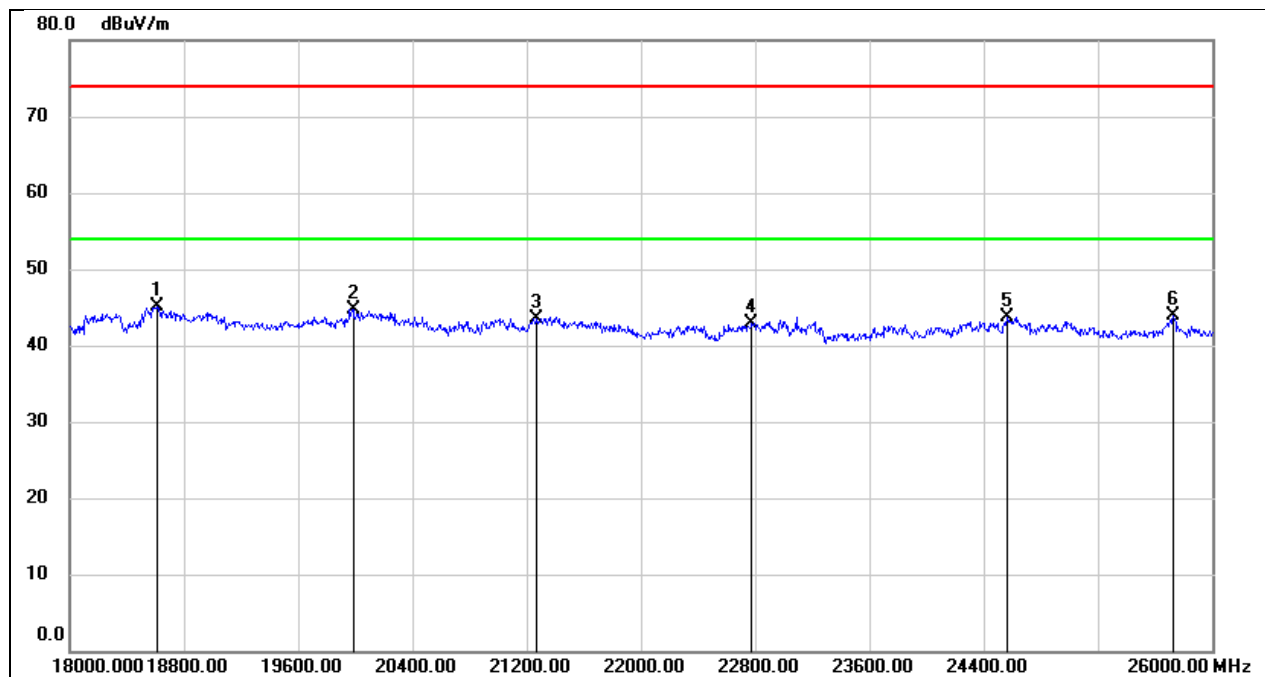
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

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	18200.000	48.79	-5.52	43.27	74.00	-30.73	peak
2	19392.000	49.62	-5.57	44.05	74.00	-29.95	peak
3	20672.000	49.77	-5.19	44.58	74.00	-29.42	peak
4	22136.000	48.91	-4.34	44.57	74.00	-29.43	peak
5	23744.000	48.15	-3.20	44.95	74.00	-29.05	peak
6	25448.000	46.33	-1.76	44.57	74.00	-29.43	peak

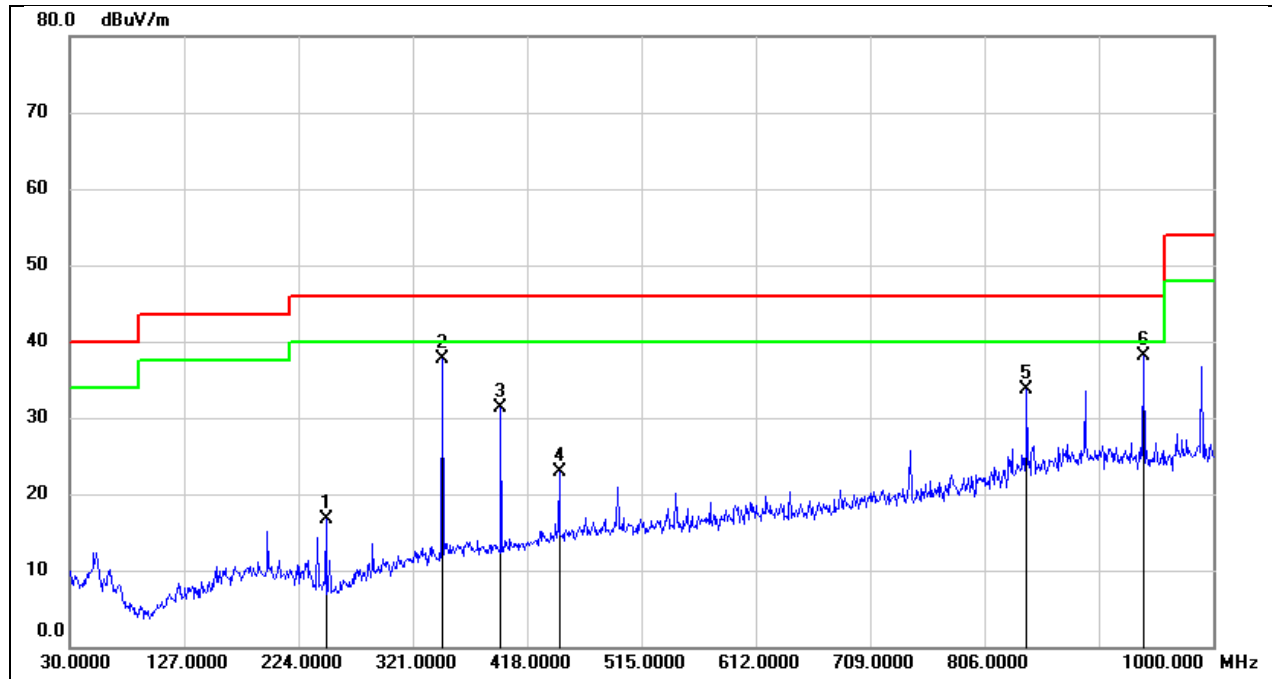
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18616.000	50.39	-5.34	45.05	74.00	-28.95	peak
2	19984.000	50.21	-5.44	44.77	74.00	-29.23	peak
3	21272.000	48.25	-4.76	43.49	74.00	-30.51	peak
4	22776.000	46.61	-3.66	42.95	74.00	-31.05	peak
5	24568.000	46.10	-2.33	43.77	74.00	-30.23	peak
6	25728.000	44.61	-0.72	43.89	74.00	-30.11	peak

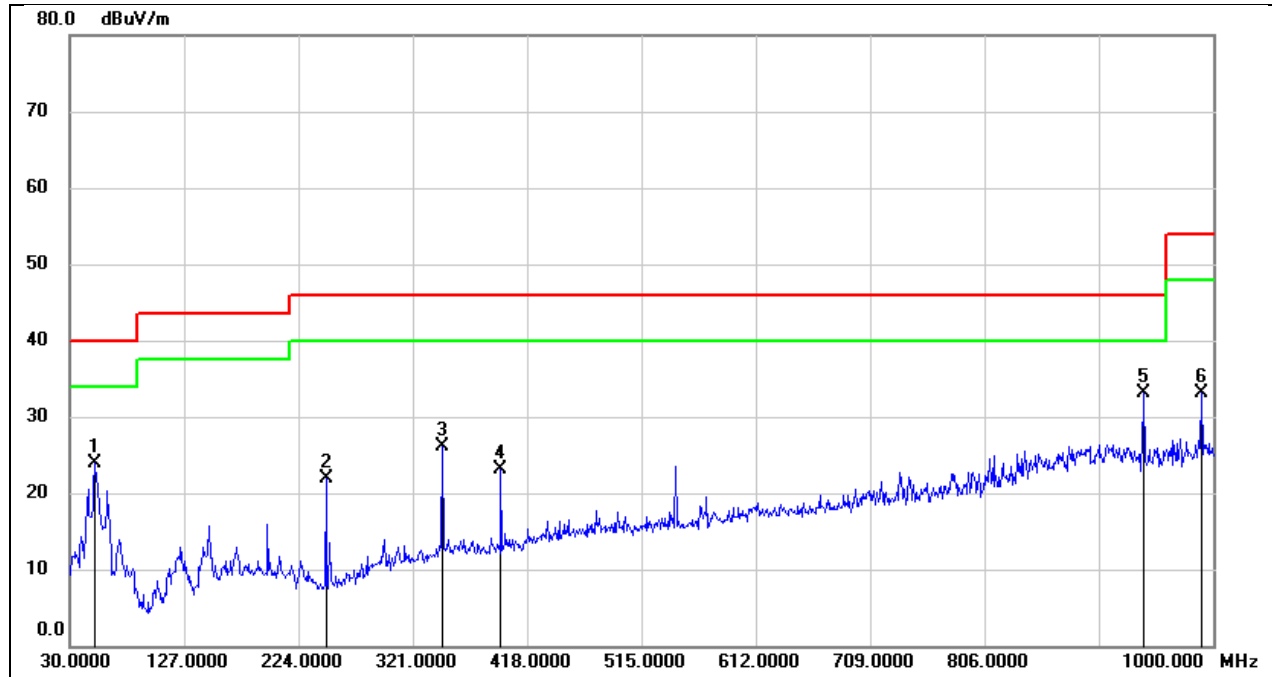
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	247.2800	31.04	-14.43	16.61	46.00	-29.39	QP
2	346.2200	47.48	-9.69	37.79	46.00	-8.21	QP
3	395.6900	40.87	-9.62	31.25	46.00	-14.75	QP
4	445.1600	31.17	-8.28	22.89	46.00	-23.11	QP
5	841.8900	35.24	-1.47	33.77	46.00	-12.23	QP
6	940.8300	38.77	-0.74	38.03	46.00	-7.97	QP

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	51.3400	38.90	-15.07	23.83	40.00	-16.17	QP
2	247.2800	36.37	-14.43	21.94	46.00	-24.06	QP
3	346.2200	35.76	-9.69	26.07	46.00	-19.93	QP
4	395.6900	32.75	-9.62	23.13	46.00	-22.87	QP
5	940.8300	33.80	-0.74	33.06	46.00	-12.94	QP
6	990.3000	33.41	-0.23	33.18	54.00	-20.82	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

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END OF REPORT