

CFR 47 FCC PART 15 SUBPART C**TEST REPORT***For***Security Camera****MODEL NUMBER: VMC3073****REPORT NUMBER: 4791756471-1-RF-2****ISSUE DATE: May 28, 2025****FCC ID:2APLE18300432***Prepared for*

**Arlo Technologies, Inc.
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Prepared by

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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 11.9.1.3 & 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

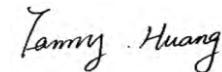
Company Name: Arlo Technologies, Inc.
Address: 5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA

EUT Information

EUT Name: Security Camera
Model: VMC3073
Sample Received Date: April 22, 2025
Sample Status: Normal
Sample ID: 8388252
Date of Tested: April 23, 2025 to May 28, 2025

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

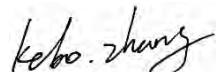
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Operations Manager

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	<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>
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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	VMC3073

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]	23.57	26.01
g	2412 ~ 2462	1-11[11]	25.41	27.85
n HT20	2412 ~ 2462	1-11[11]	25.36	27.80

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 Worse 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
802.11b	1	3	9	8	/	
802.11g	1	-5	16	-7		
802.11n HT20	1	-5	16	-10		

WORST-CASE CONFIGURATIONS

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

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	2.44

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

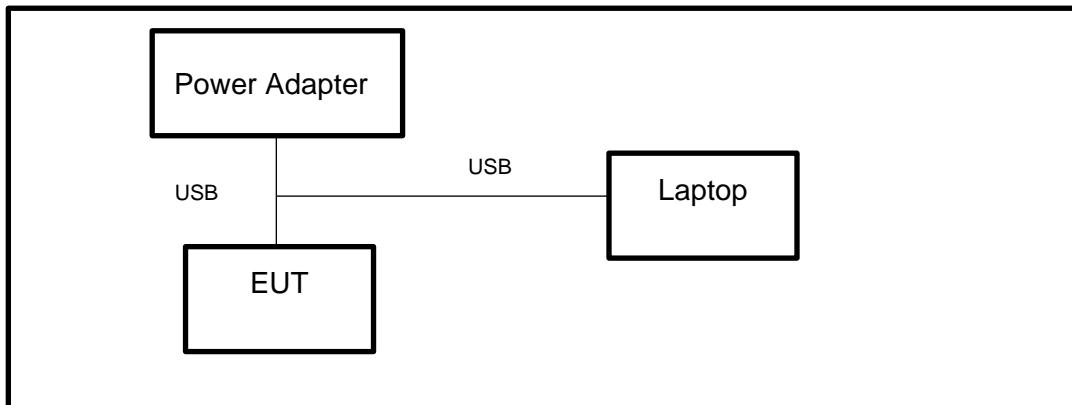
Item	Accessory	Brand Name	Model Name	Description
1	Power Adapter	/	A319-050200U-US 2	Input: AC 100-240V, 50/60Hz, Max 0.3A Output: DC 5V, 2000mA
2	Power Adapter	/	S010WU0500200	Input: AC 100-240V, 50/60Hz, Max 0.3A Output: DC 5V, 2000mA
3	POE	/	VMA3900	Input: 37-57 VDC Output: DC 5V, 2A

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	Tonsend	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:

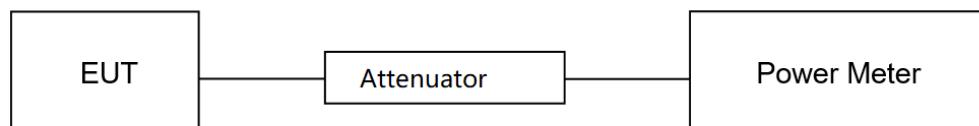
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	23.8°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 20, 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

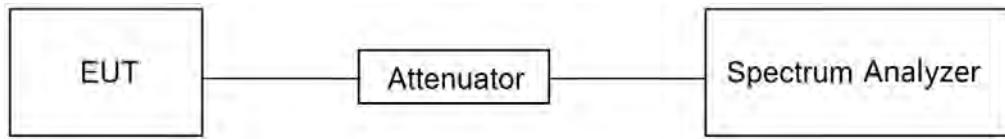
TEST PROCEDURE

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

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- 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	23.8°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 20, 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.

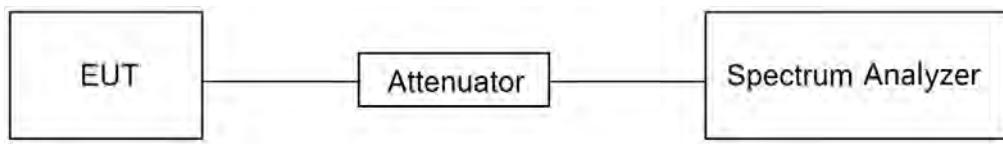
Connect the EUT to the spectrum analyzer and use the following settings:

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

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 20, 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:

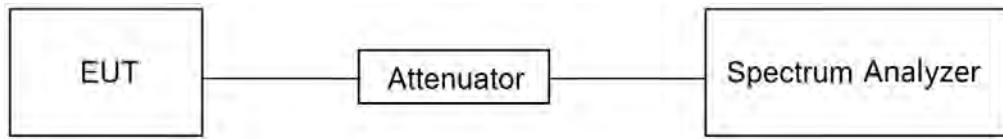
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
measurement points	\geq span/RBW
Trace	Max hold
Sweep time	Auto couple.

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

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.8°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 20, 2025	Test By	Bairong Liu
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TEST RESULTS

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

7.5. DUTY CYCLE

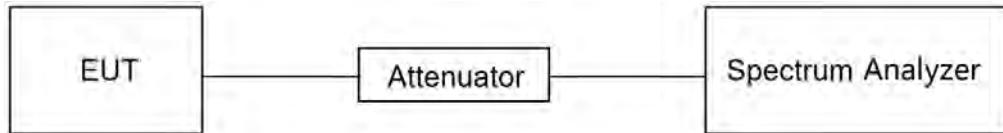
LIMITS

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	23.4°C	Relative Humidity	52%
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 (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
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 dB_{UV}/m, which is equivalent to $Y-51.5 = Z$ dB_{UA}/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.

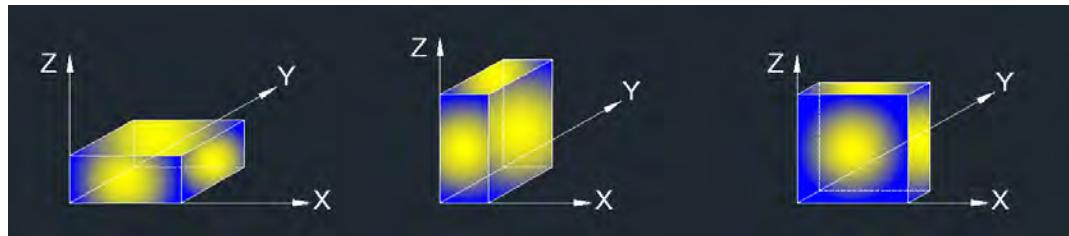
Above 1 GHz

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

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:

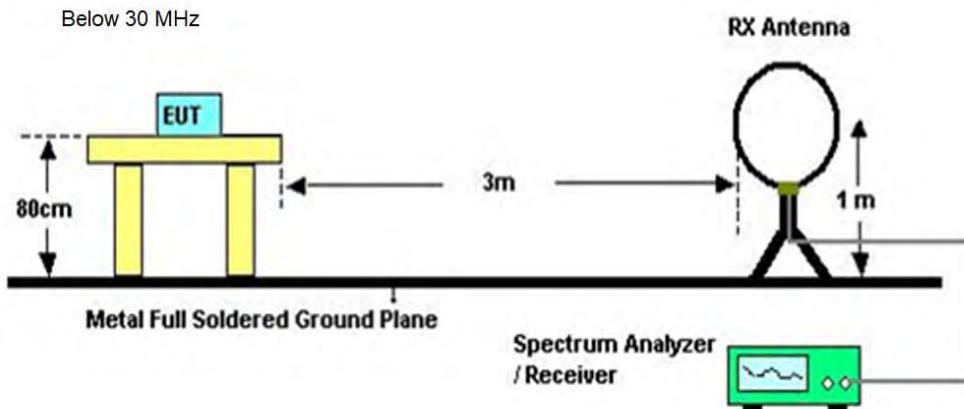
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
5. For the transmitting duration, please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

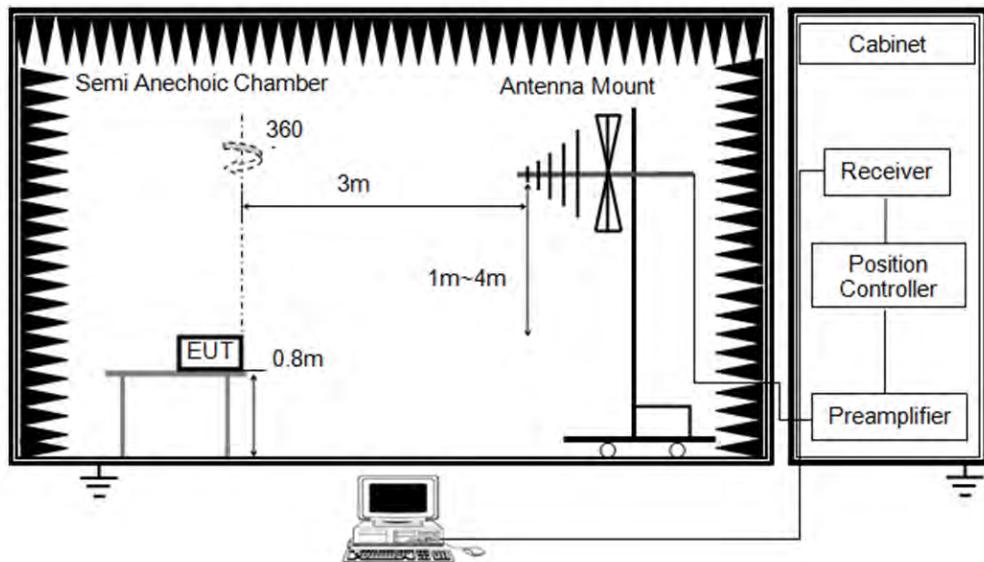
Note:

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.

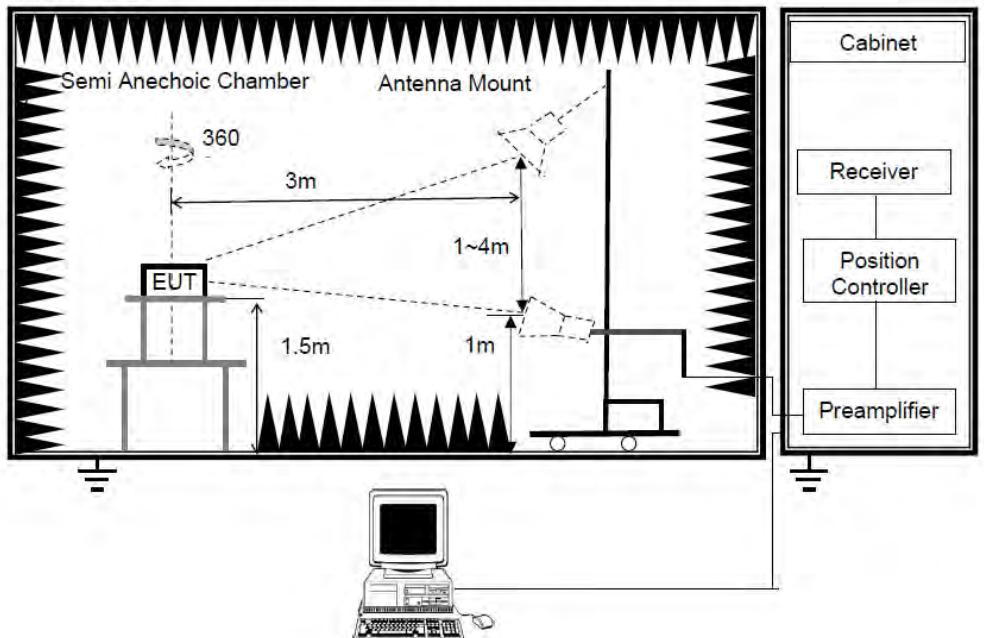
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	23.7°C	Relative Humidity	58.2%
Atmosphere Pressure	101kPa	Test Voltage	

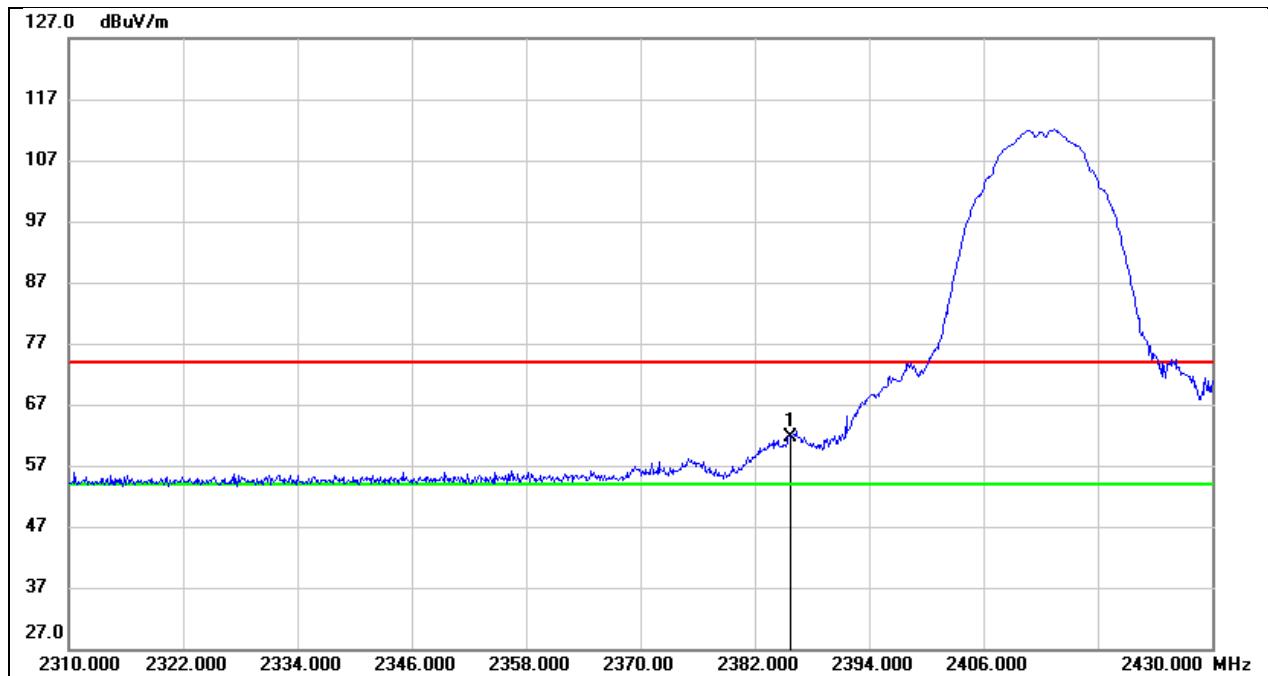
TEST DATE / ENGINEER

Test Date	May 18, 2025	Test By	Fanny Huang
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TEST RESULTS

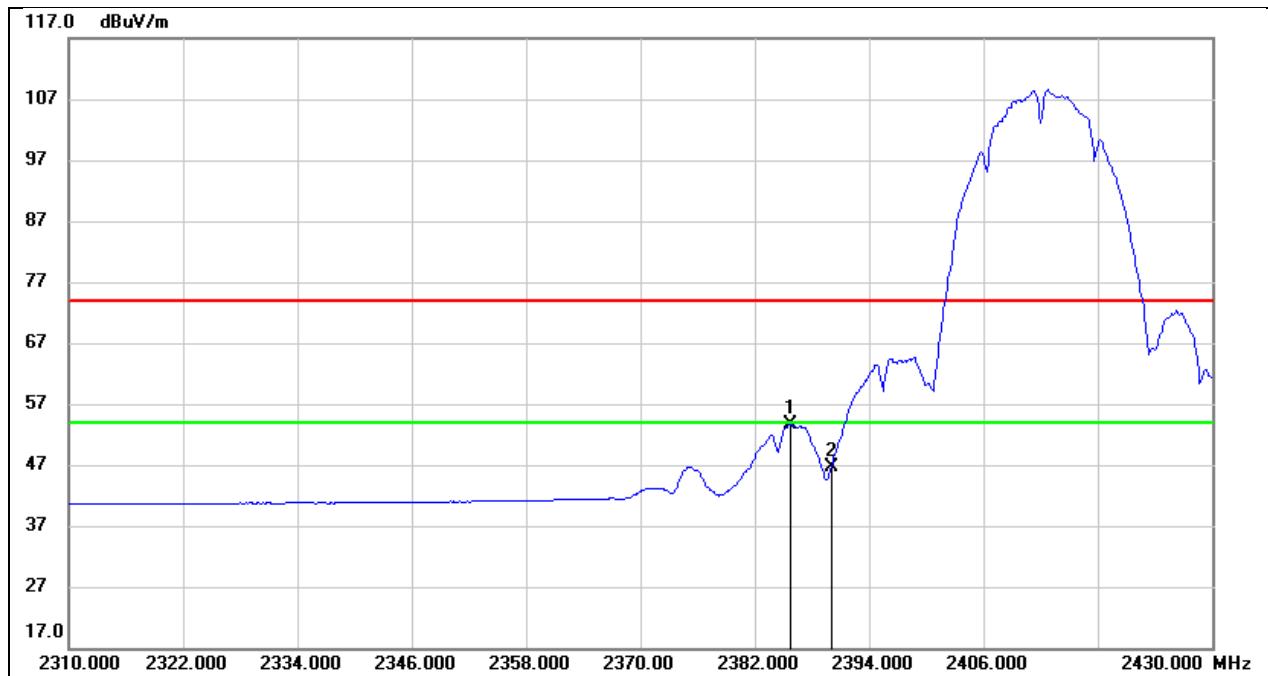
8.1. RESTRICTED BANDEDGE

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



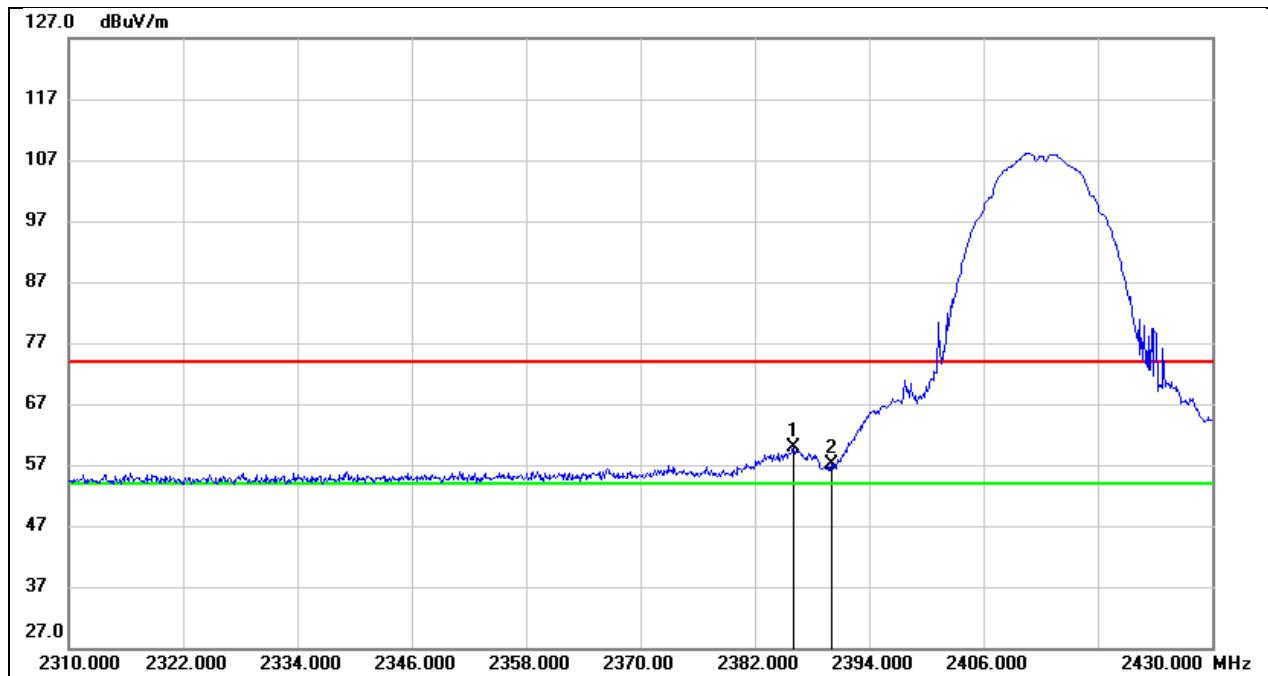
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	26.21	35.41	61.62	74.00	-12.38	peak

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



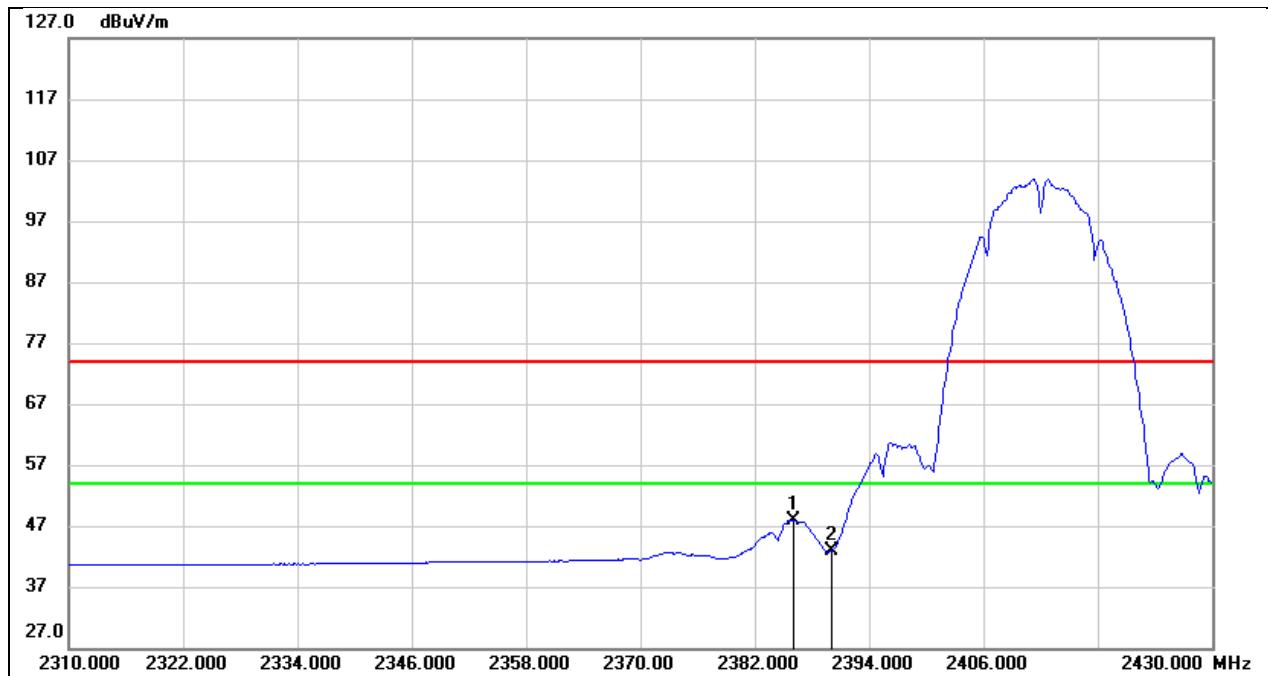
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.720	18.26	35.41	53.67	54.00	-0.33	AVG
2	2390.000	11.31	35.43	46.74	54.00	-7.26	AVG

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



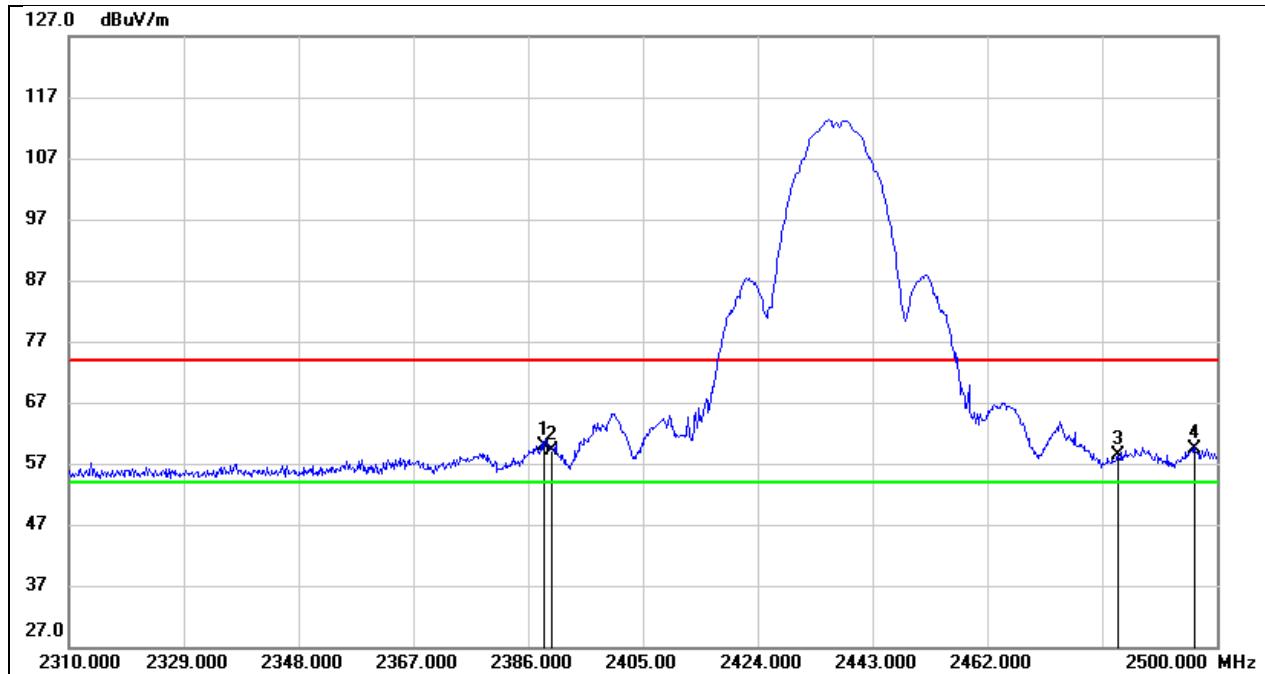
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.080	24.47	35.41	59.88	74.00	-14.12	peak
2	2390.000	21.67	35.43	57.10	74.00	-16.90	peak

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



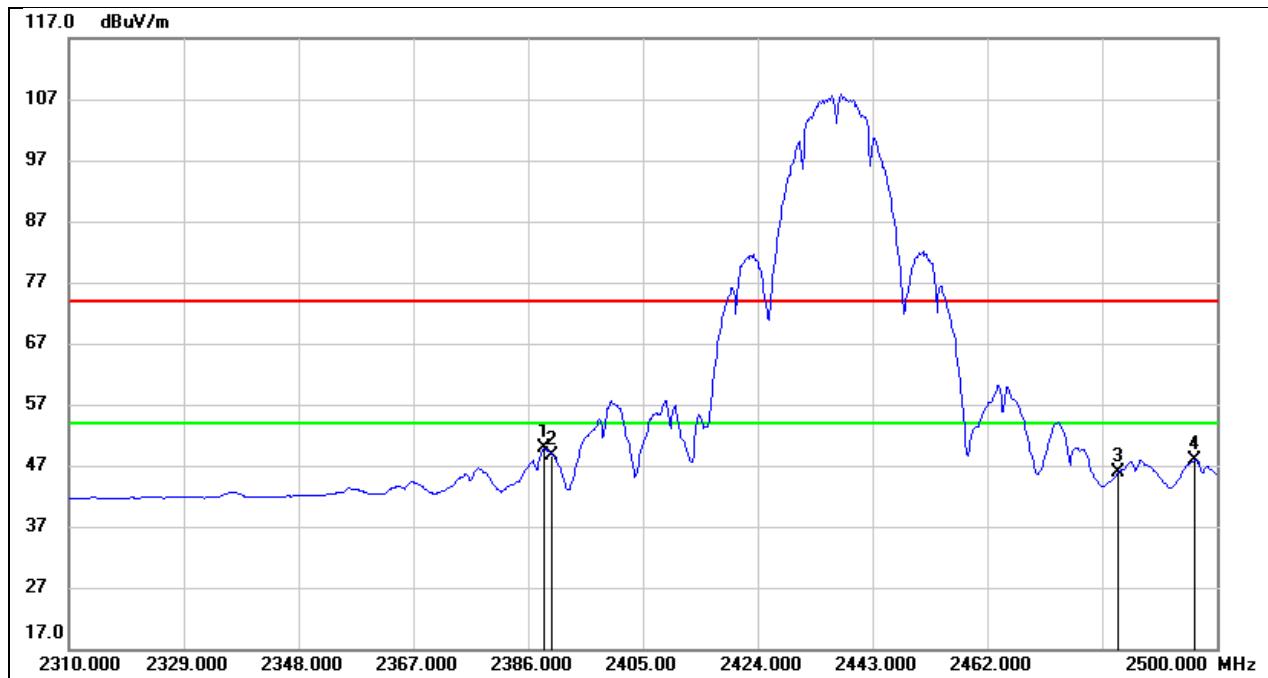
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.080	12.42	35.41	47.83	54.00	-6.17	AVG
2	2390.000	7.56	35.43	42.99	54.00	-11.01	AVG

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



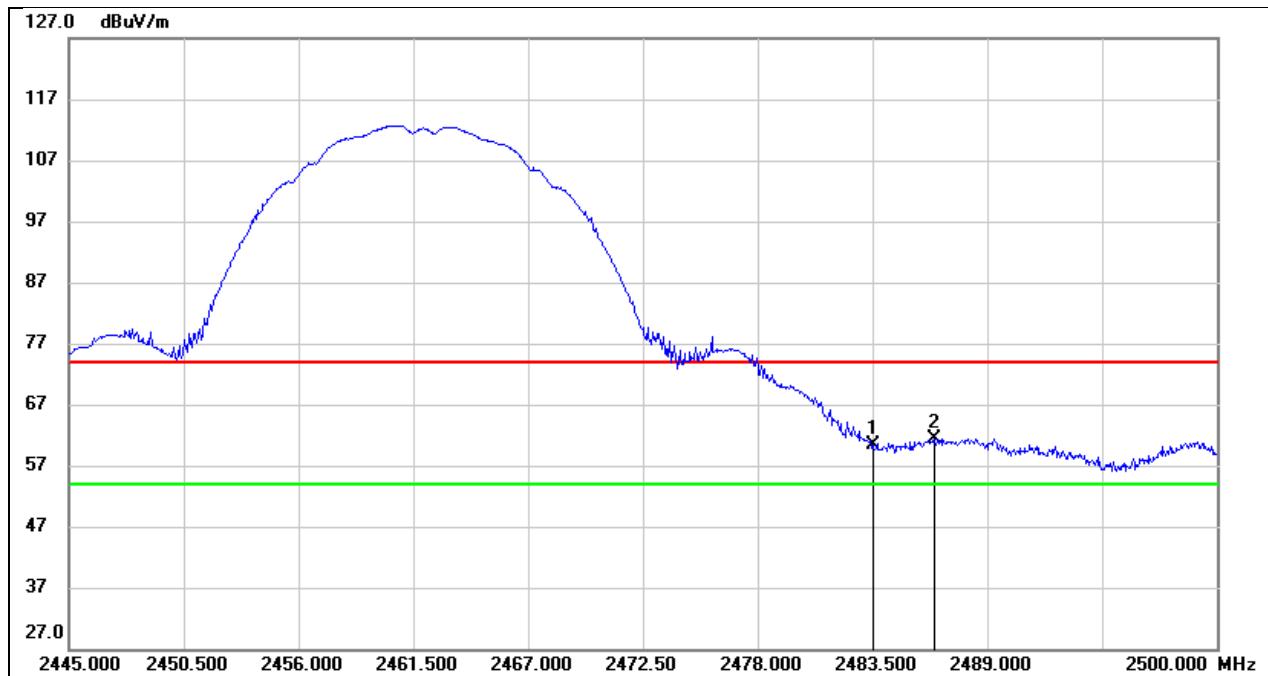
No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2388.660	28.19	31.73	59.92	74.00	-14.08	peak
2	2390.000	27.31	31.73	59.04	74.00	-14.96	peak
3	2483.500	26.38	32.00	58.38	74.00	-15.62	peak
4	2496.390	27.39	32.03	59.42	74.00	-14.58	peak

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



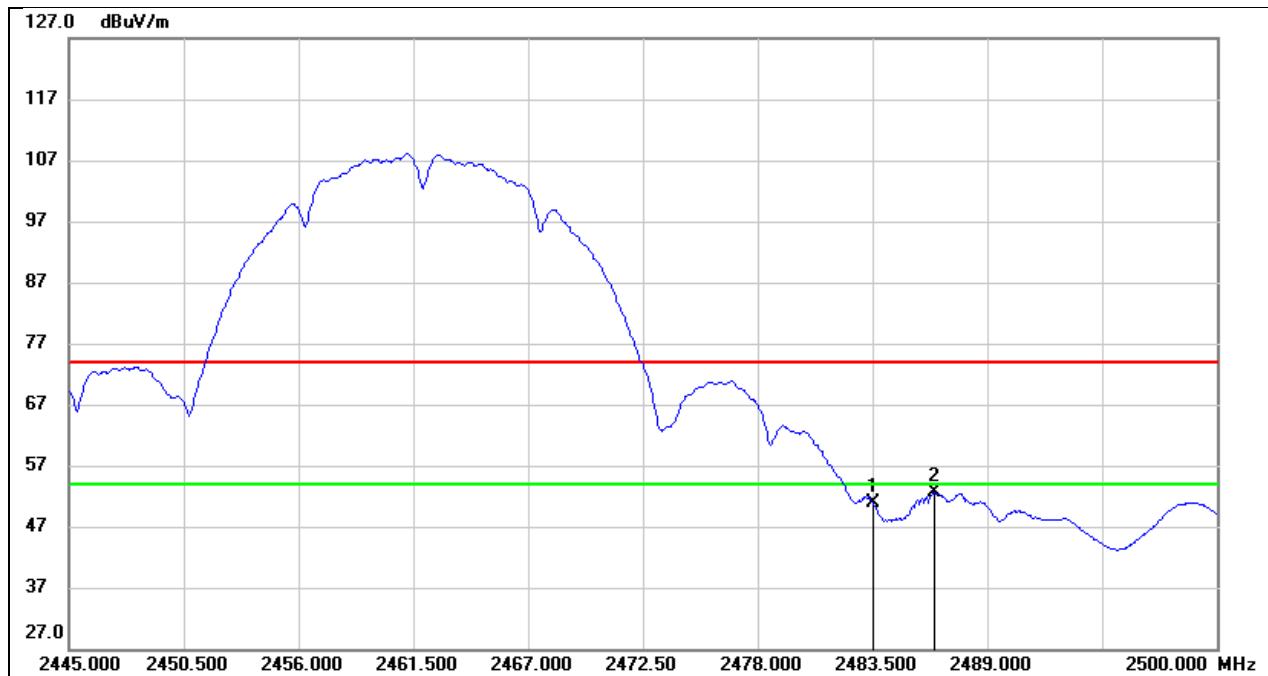
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.660	18.05	31.73	49.78	54.00	-4.22	AVG
2	2390.000	16.98	31.73	48.71	54.00	-5.29	AVG
3	2483.500	13.93	32.00	45.93	54.00	-8.07	AVG
4	2496.390	15.91	32.03	47.94	54.00	-6.06	AVG

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



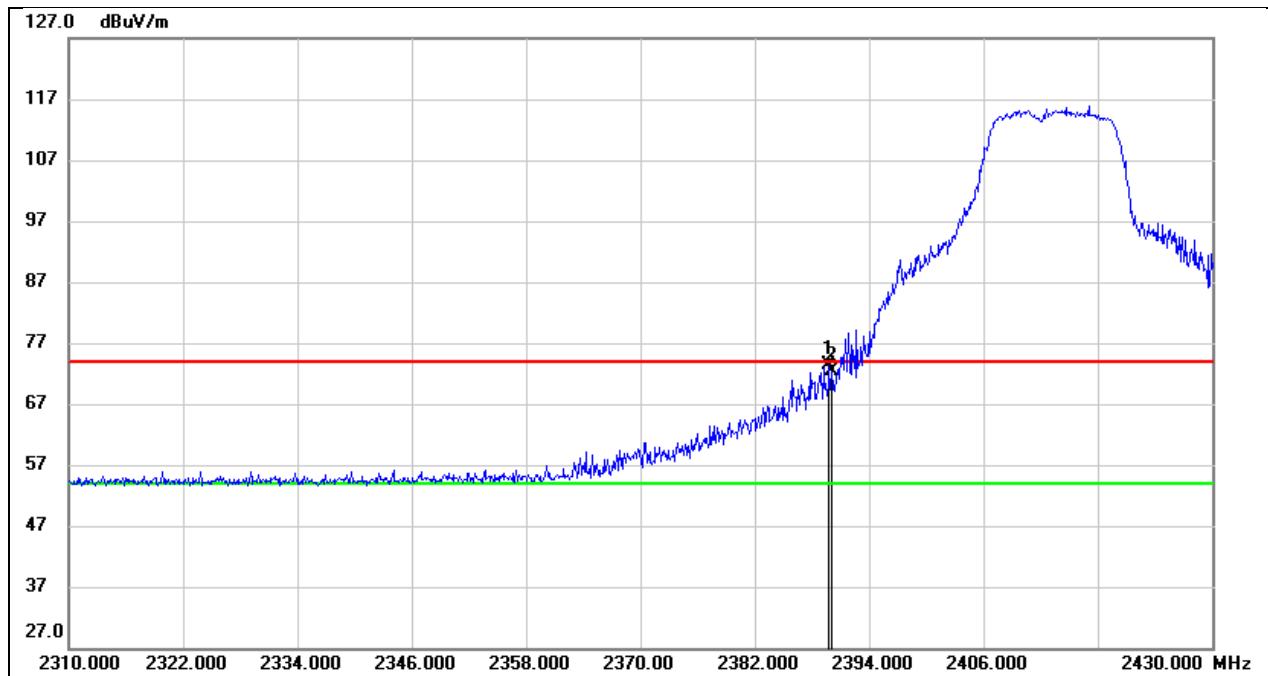
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	24.14	36.13	60.27	74.00	-13.73	peak
2	2486.470	25.11	36.15	61.26	74.00	-12.74	peak

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



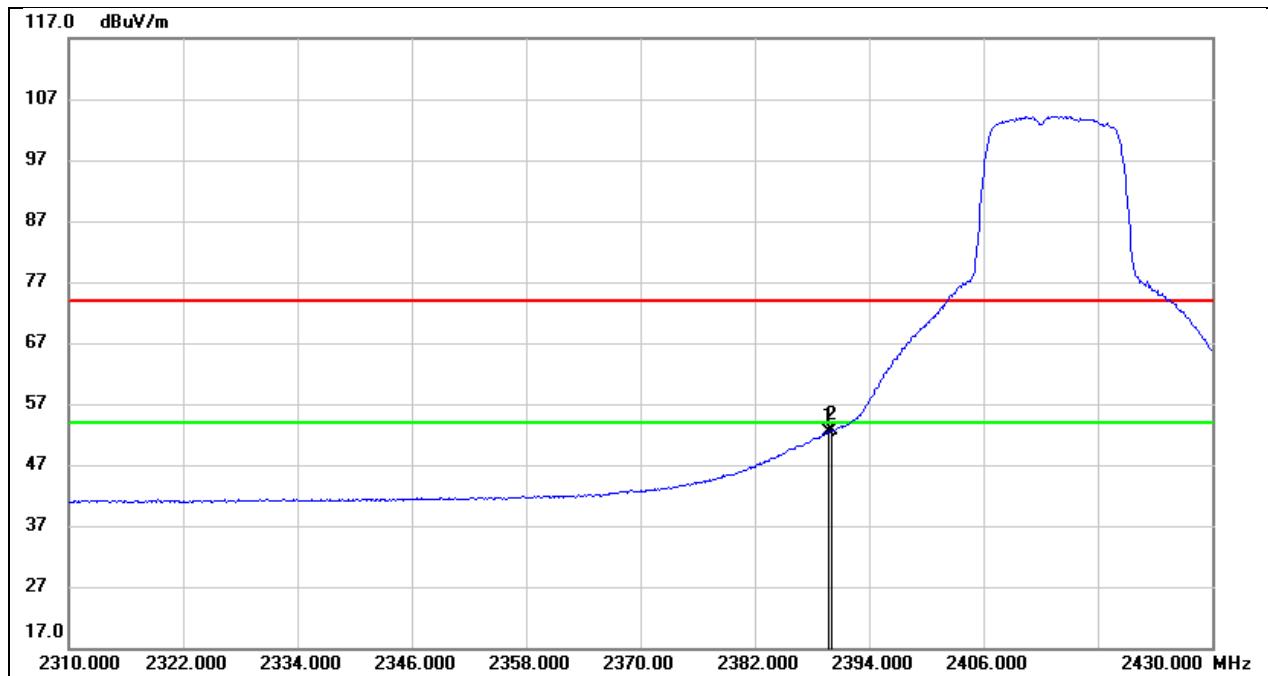
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.85	36.13	50.98	54.00	-3.02	AVG
2	2486.470	16.37	36.15	52.52	54.00	-1.48	AVG

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



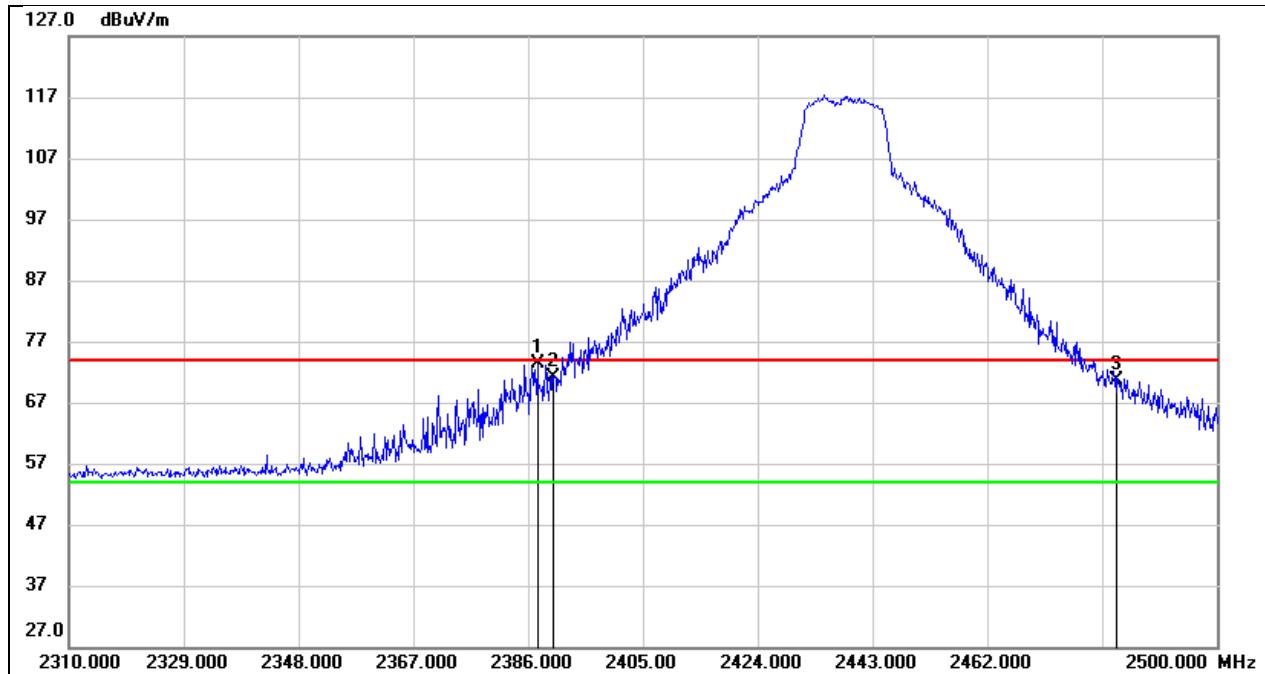
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.800	38.05	35.43	73.48	74.00	-0.52	peak
2	2390.000	37.02	35.43	72.45	74.00	-1.55	peak

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



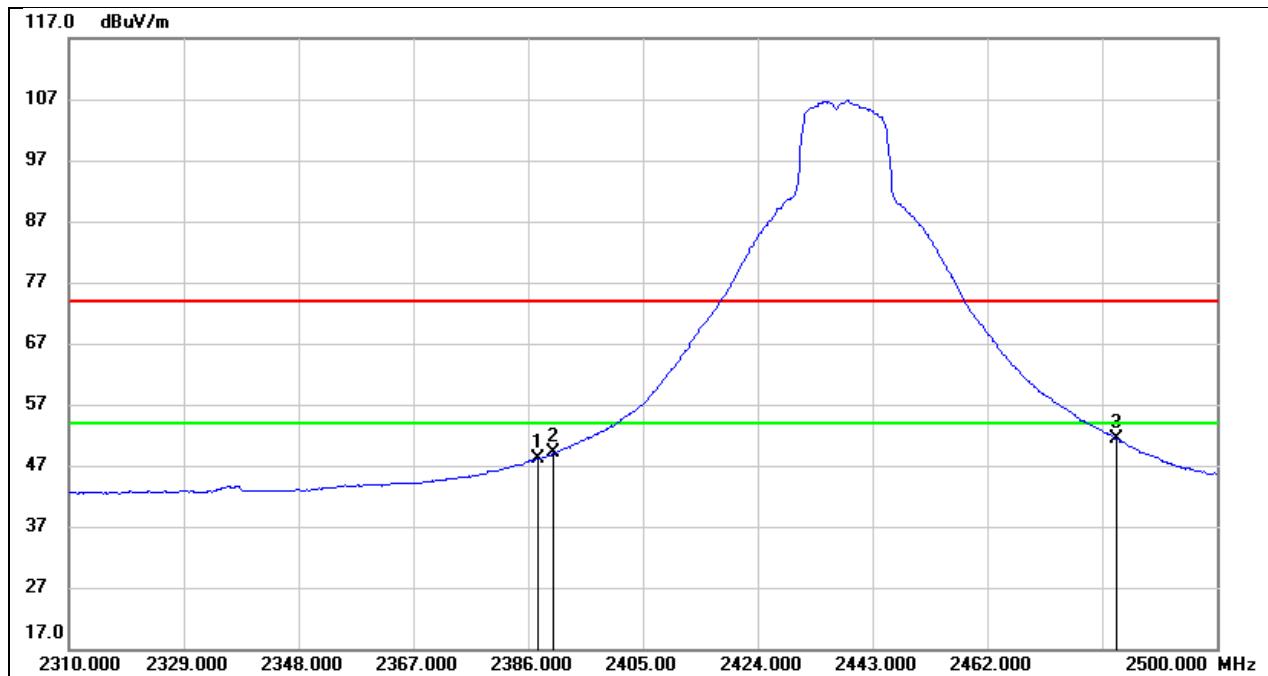
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.800	16.91	35.43	52.34	54.00	-1.66	AVG
2	2390.000	17.32	35.43	52.75	54.00	-1.25	AVG

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



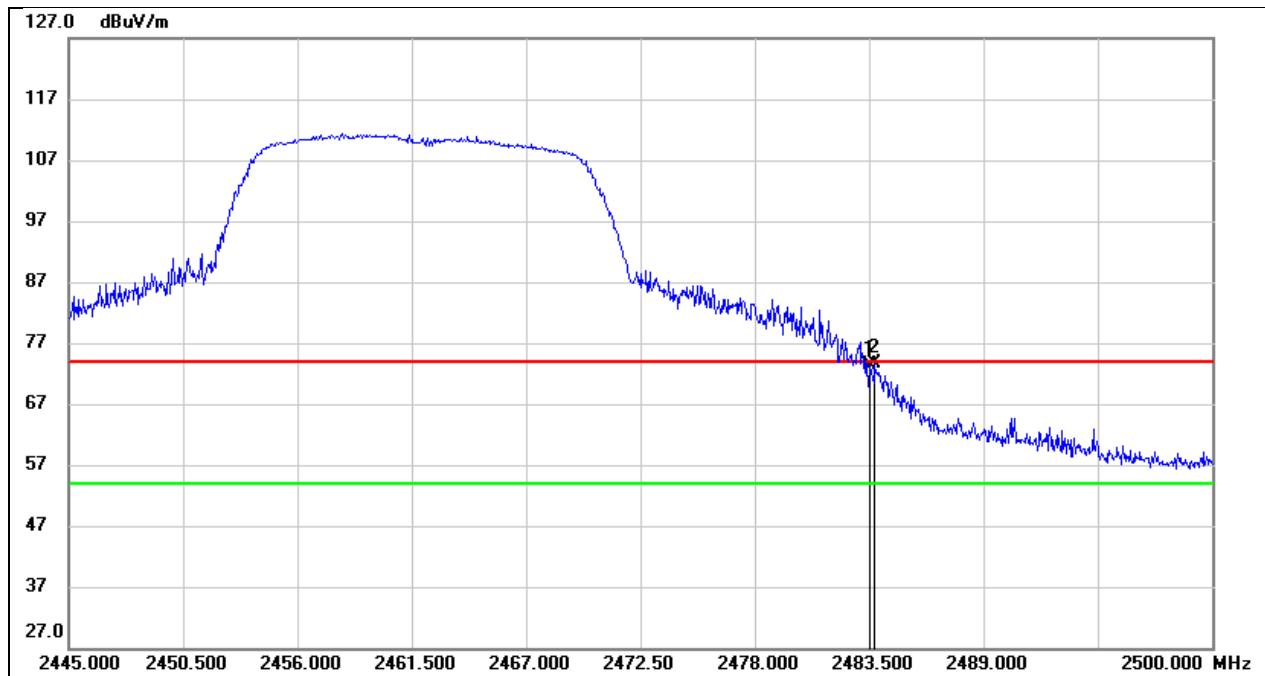
No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2387.520	41.57	31.73	73.30	74.00	-0.70	peak
2	2390.000	39.35	31.73	71.08	74.00	-2.92	peak
3	2483.500	38.57	32.00	70.57	74.00	-3.43	peak

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



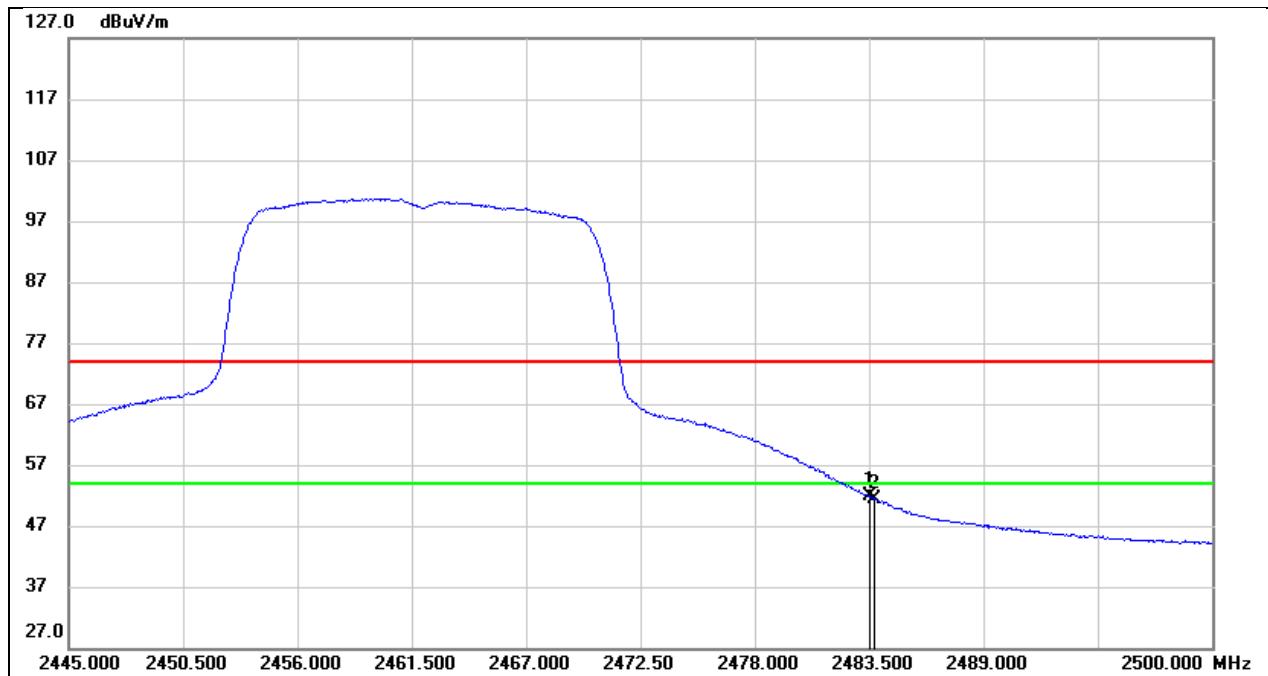
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.520	16.36	31.73	48.09	54.00	-5.91	AVG
2	2390.000	17.29	31.73	49.02	54.00	-4.98	AVG
3	2483.500	19.26	32.00	51.26	54.00	-2.74	AVG

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



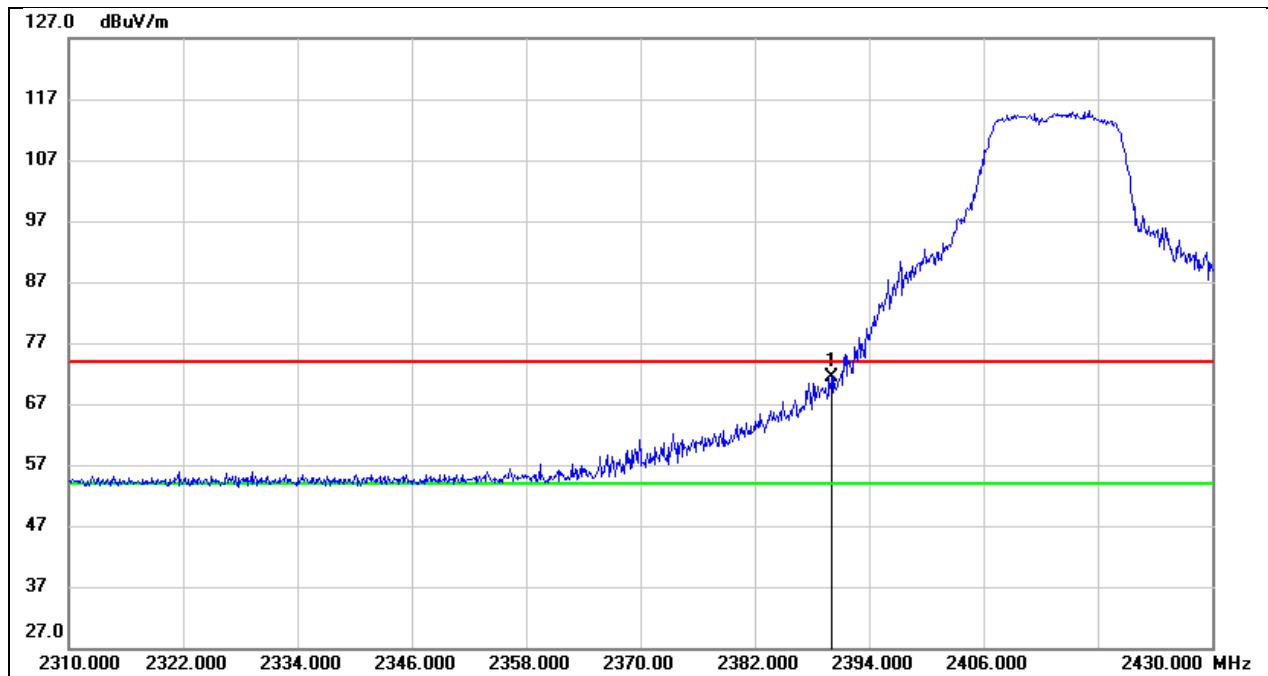
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.21	36.13	73.34	74.00	-0.66	peak
2	2483.775	37.42	36.13	73.55	74.00	-0.45	peak

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



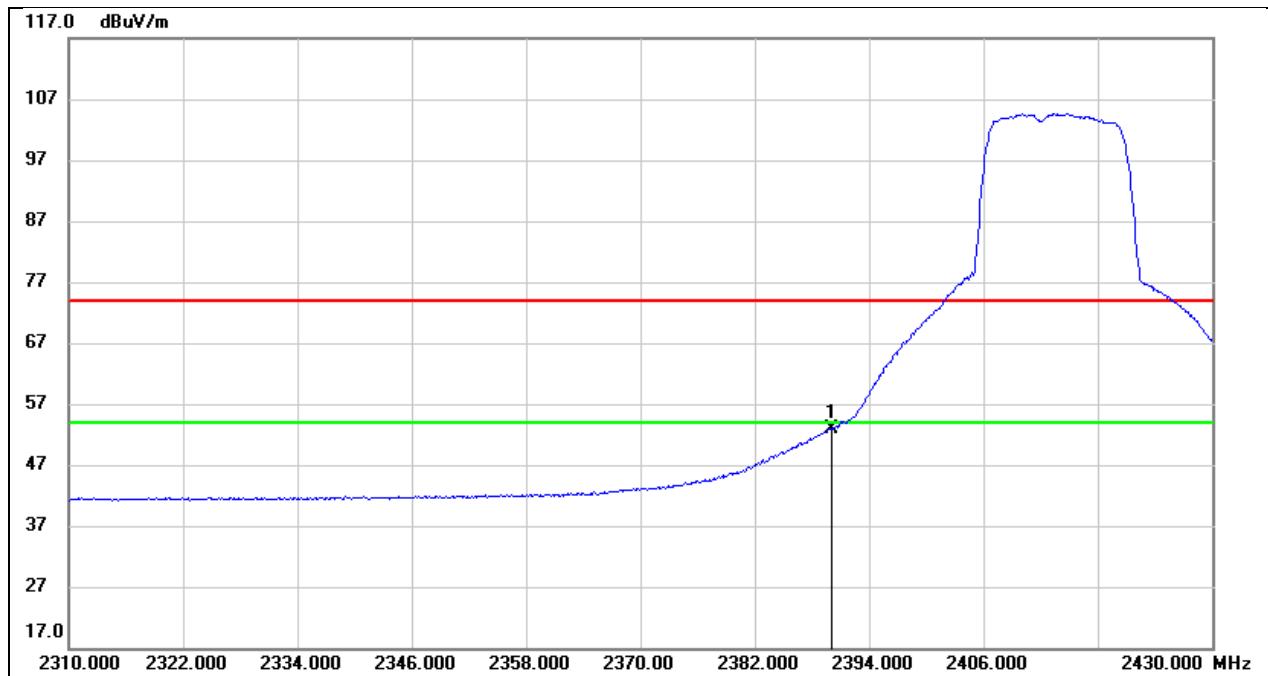
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.66	36.13	51.79	54.00	-2.21	AVG
2	2483.775	15.22	36.13	51.35	54.00	-2.65	AVG

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



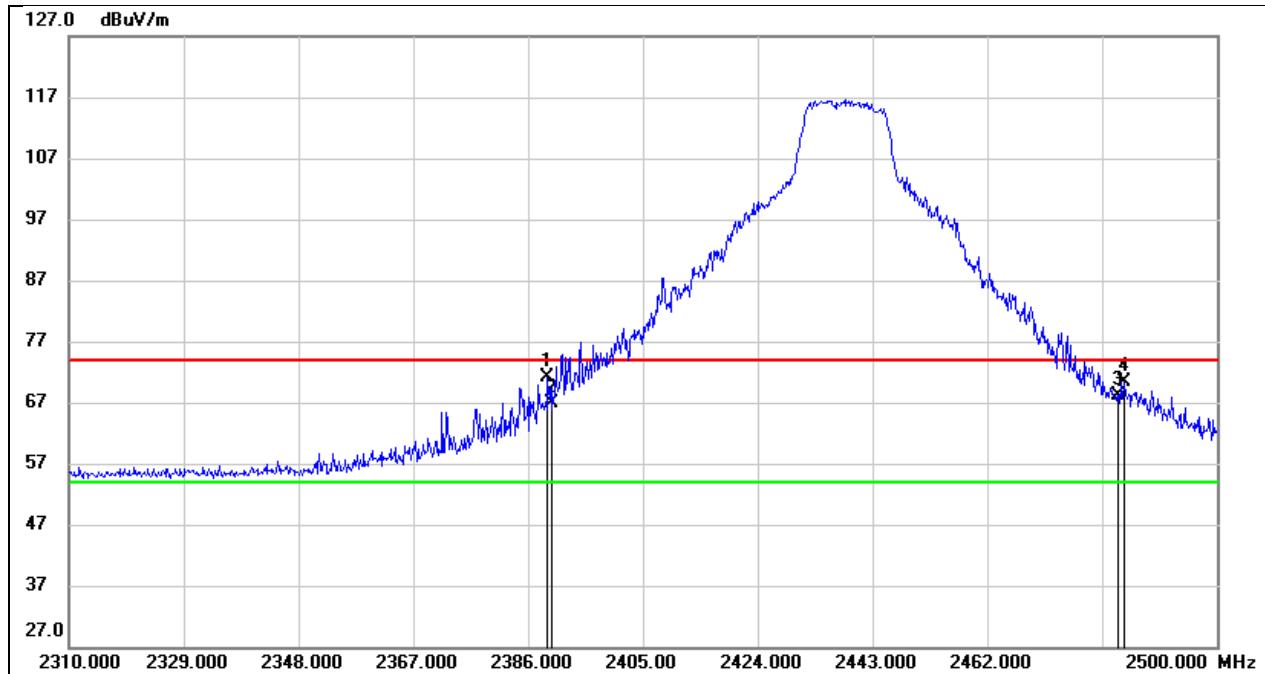
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.03	35.43	71.46	74.00	-2.54	peak

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



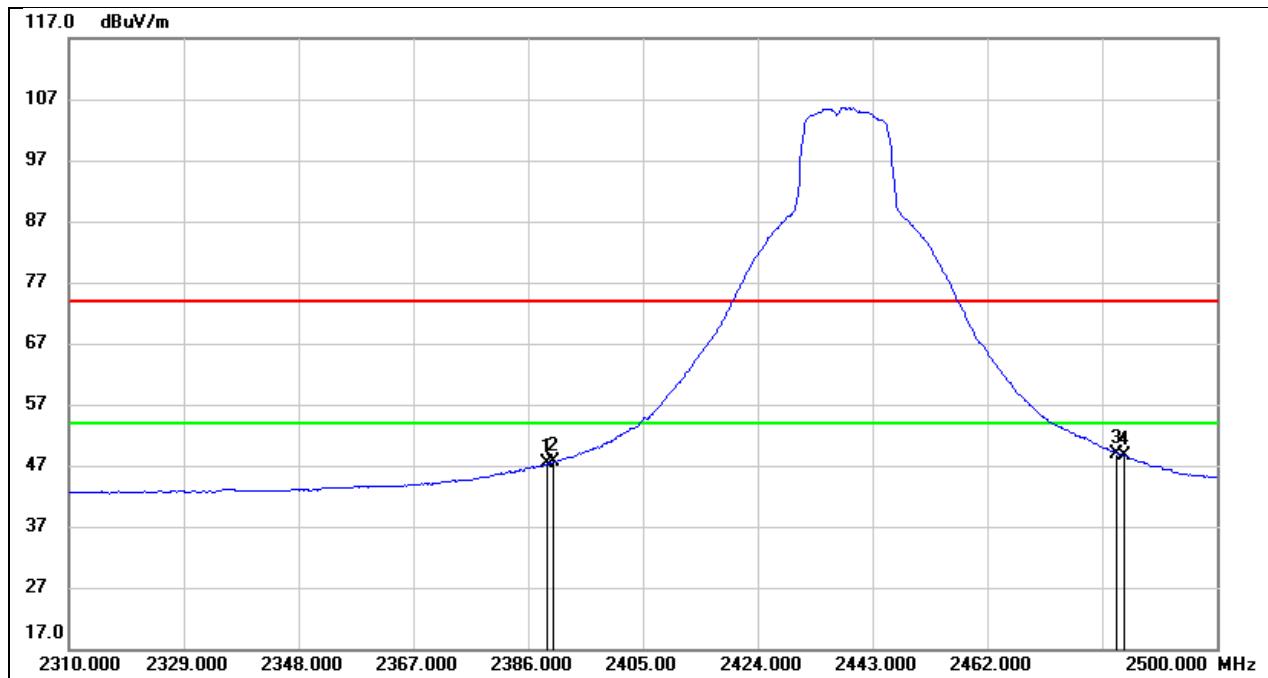
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	17.57	35.43	53.00	54.00	-1.00	AVG

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



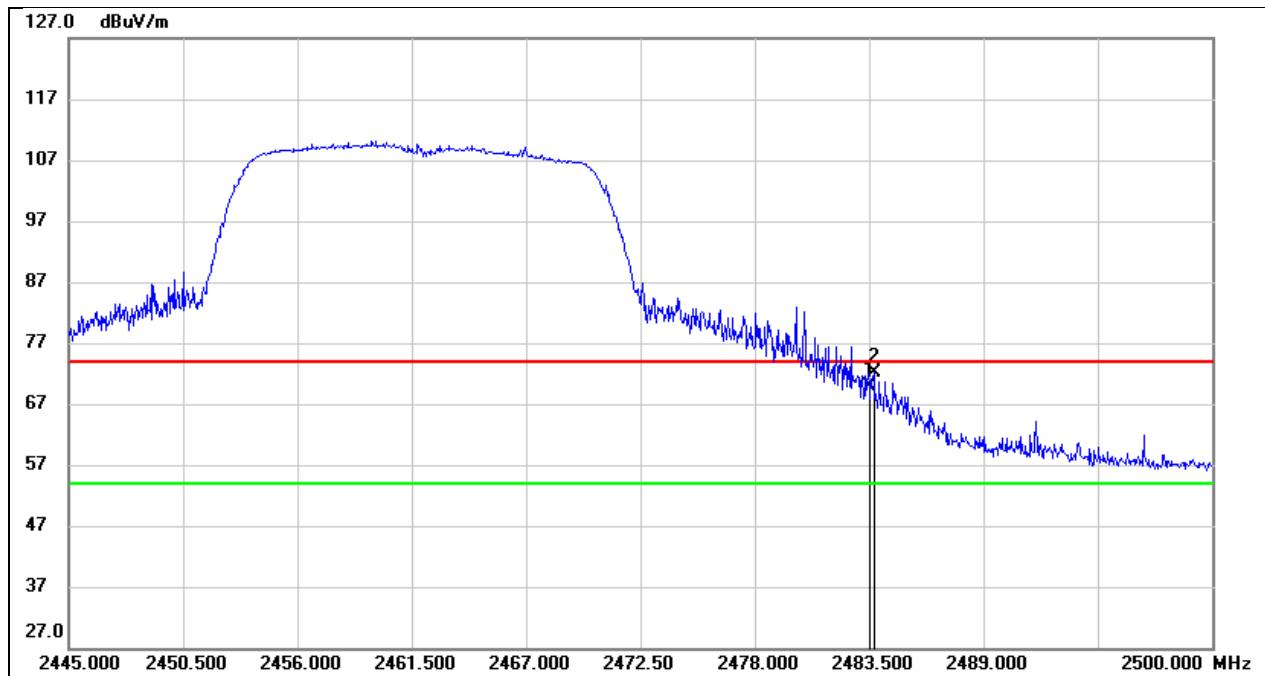
No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2389.230	39.37	31.73	71.10	74.00	-2.90	peak
2	2390.000	35.14	31.73	66.87	74.00	-7.13	peak
3	2483.500	36.21	32.00	68.21	74.00	-5.79	peak
4	2484.610	38.31	32.00	70.31	74.00	-3.69	peak

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



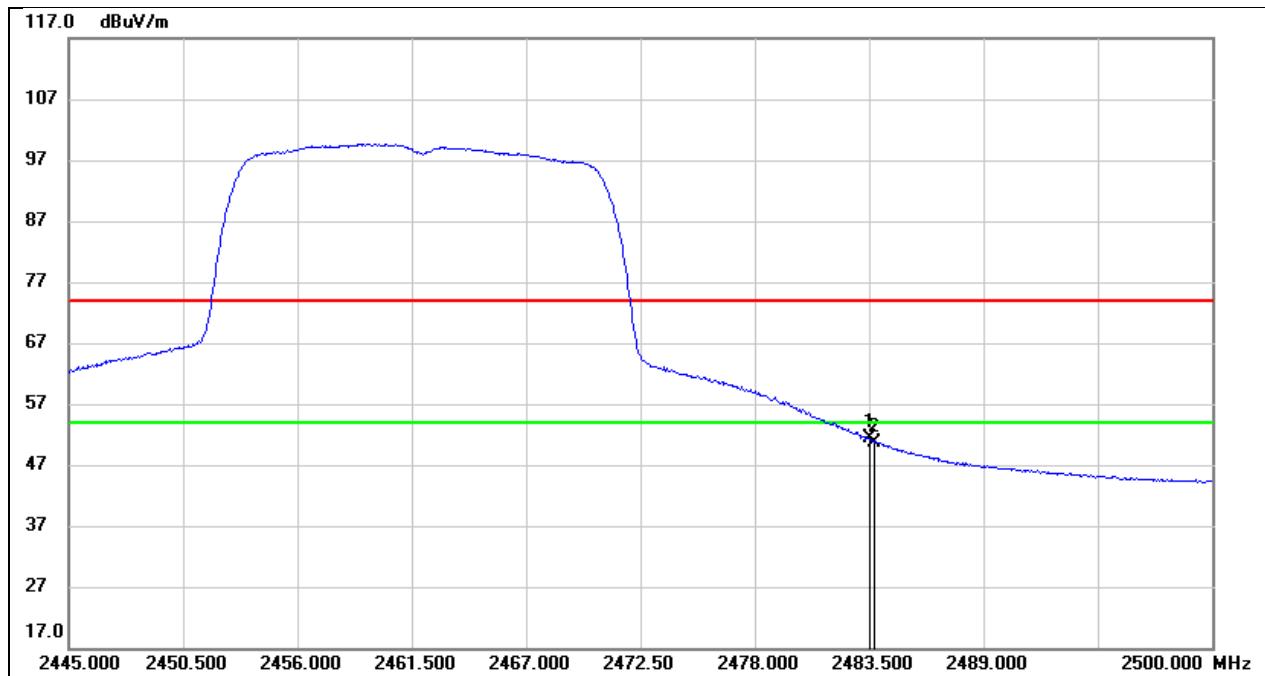
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.230	15.66	31.73	47.39	54.00	-6.61	AVG
2	2390.000	15.83	31.73	47.56	54.00	-6.44	AVG
3	2483.500	17.00	32.00	49.00	54.00	-5.00	AVG
4	2484.610	16.62	32.00	48.62	54.00	-5.38	AVG

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	33.83	36.13	69.96	74.00	-4.04	peak
2	2483.720	36.07	36.13	72.20	74.00	-1.80	peak

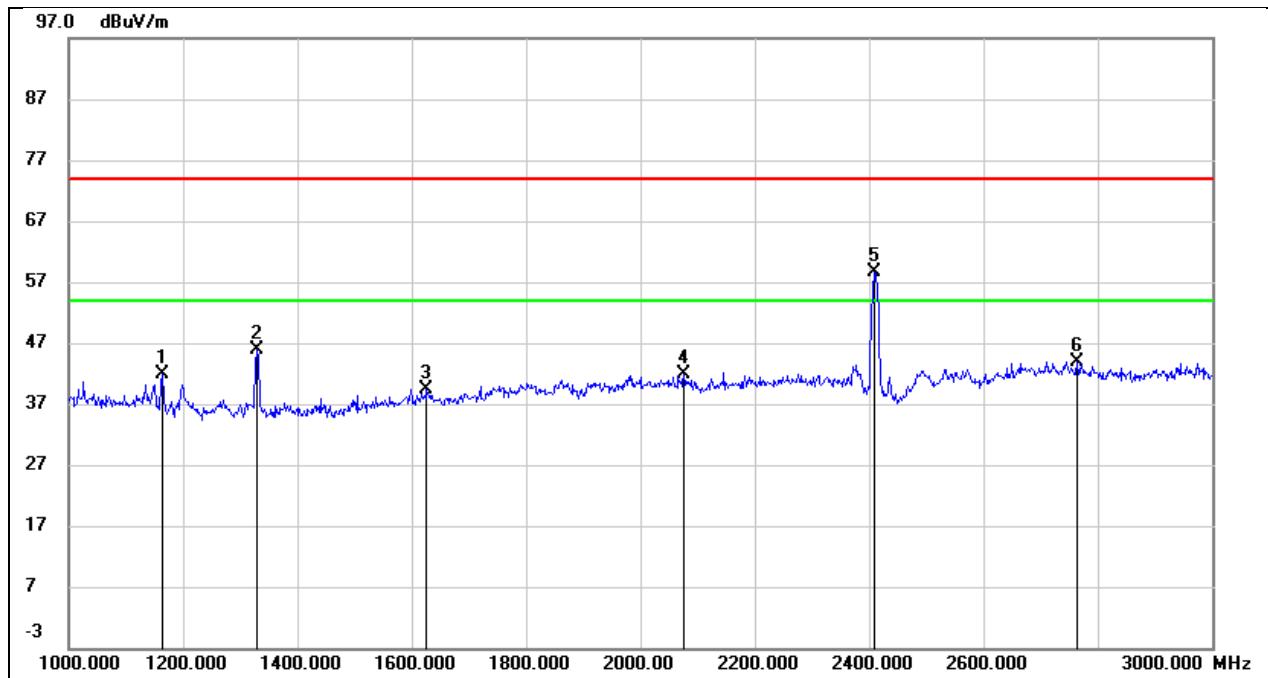
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.32	36.13	51.45	54.00	-2.55	AVG
2	2483.720	14.60	36.13	50.73	54.00	-3.27	AVG

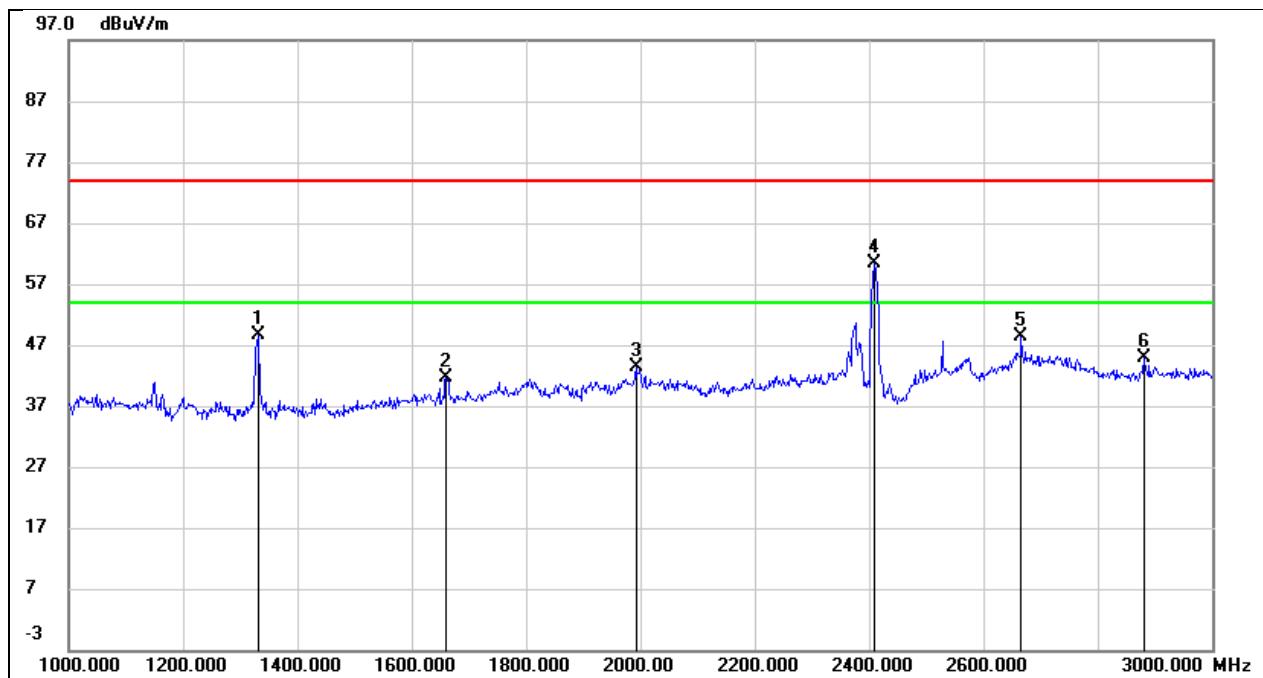
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

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



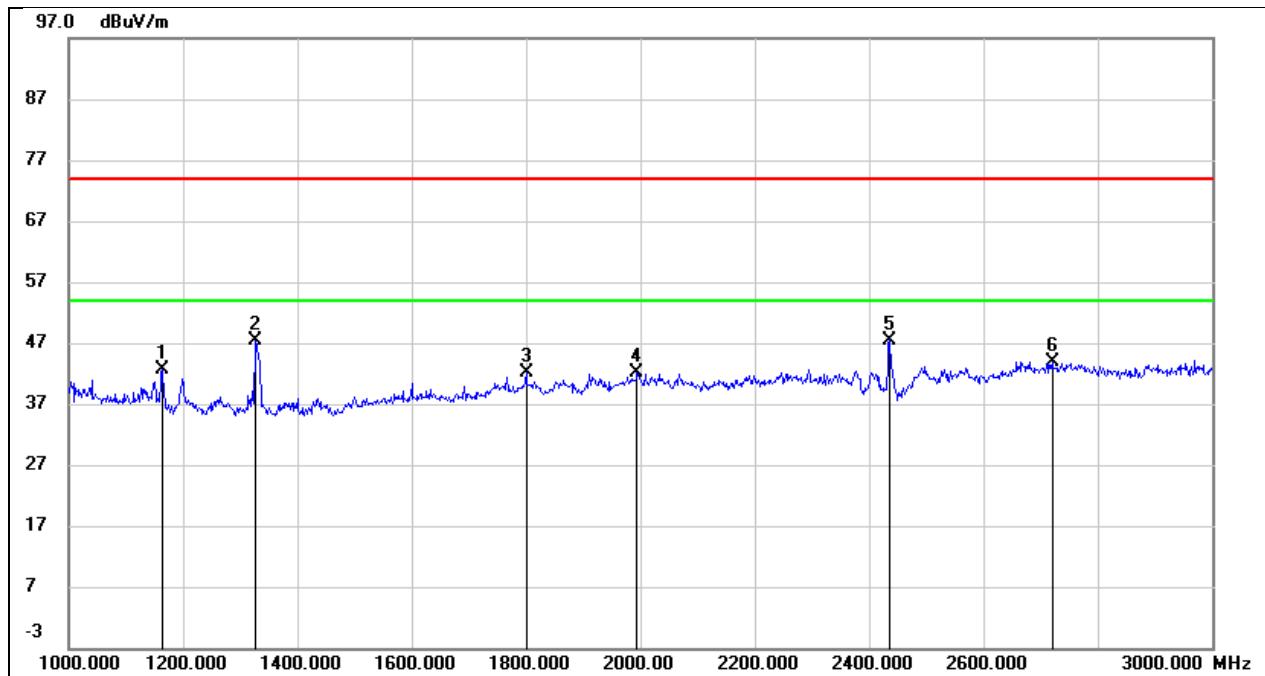
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1164.000	51.36	-9.43	41.93	74.00	-32.07	peak
2	1330.000	55.49	-9.59	45.90	74.00	-28.10	peak
3	1626.000	47.64	-8.26	39.38	74.00	-34.62	peak
4	2076.000	46.66	-4.75	41.91	74.00	-32.09	peak
5	2412.000	62.37	-3.71	58.66	/	/	fundamental
6	2764.000	46.15	-2.17	43.98	74.00	-30.02	peak

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



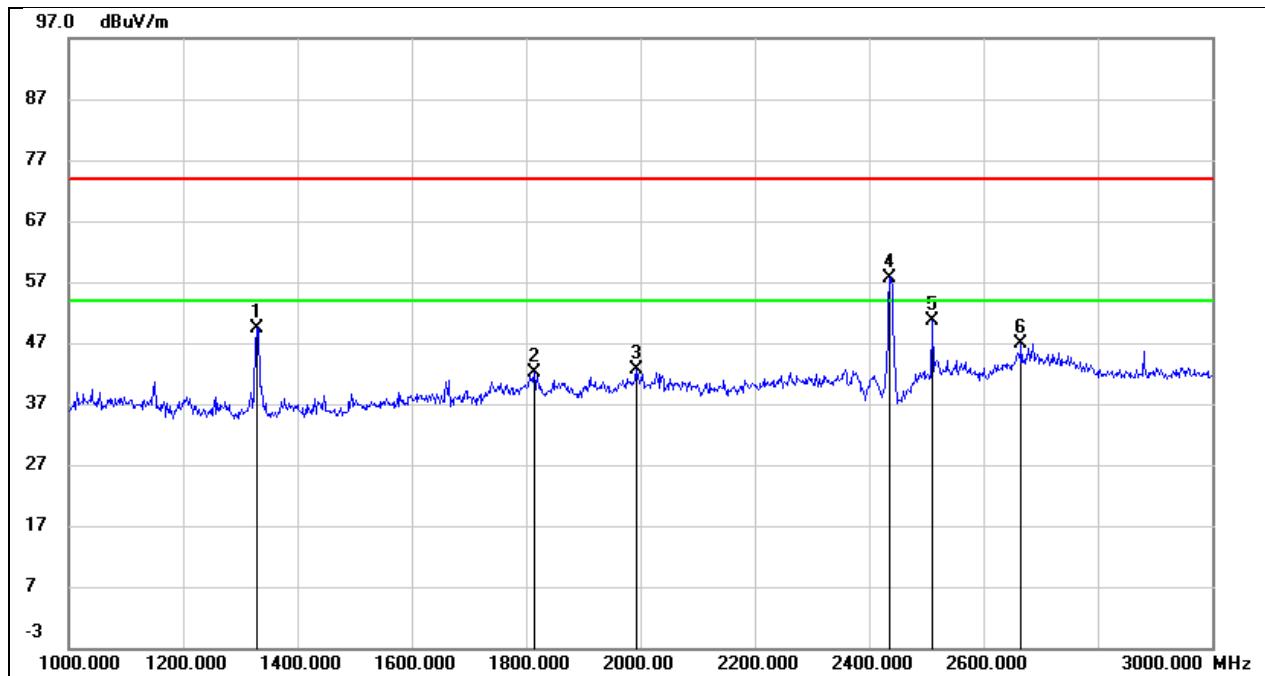
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1332.000	58.34	-9.60	48.74	74.00	-25.26	peak
2	1660.000	49.39	-7.83	41.56	74.00	-32.44	peak
3	1992.000	48.30	-5.04	43.26	74.00	-30.74	peak
4	2412.000	64.20	-3.71	60.49	/	/	fundamental
5	2666.000	51.06	-2.61	48.45	74.00	-25.55	peak
6	2880.000	46.36	-1.60	44.76	74.00	-29.24	peak

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



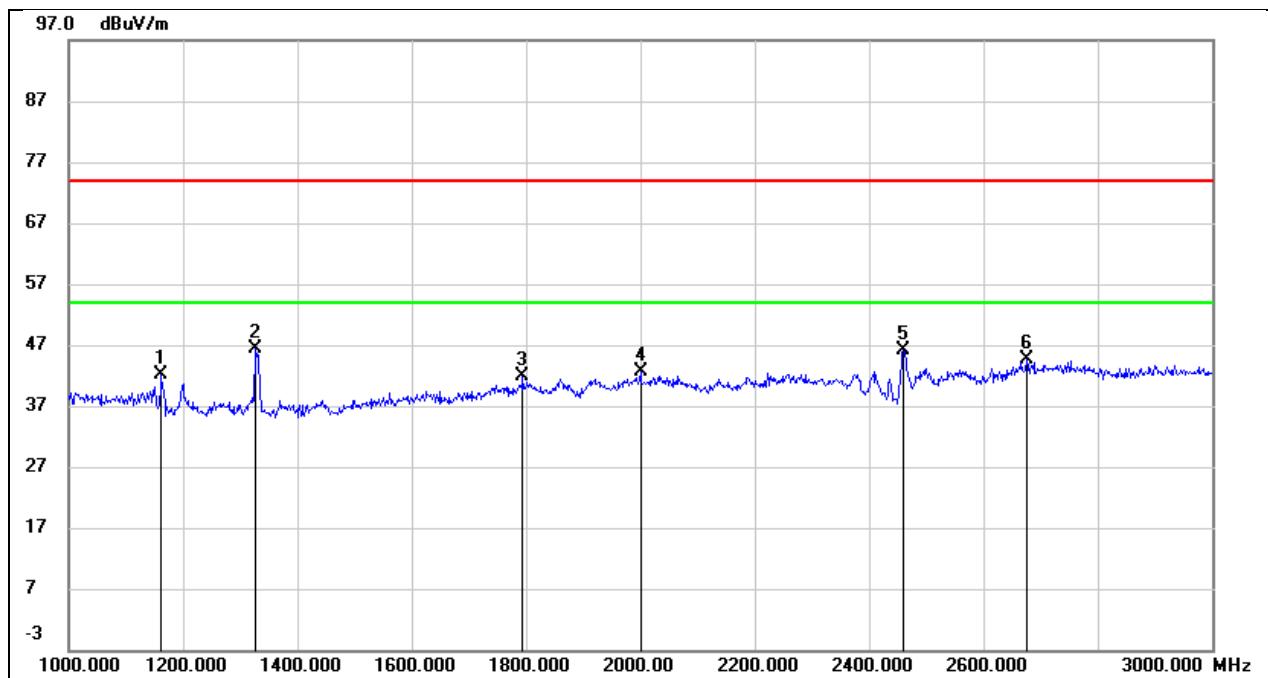
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1164.000	51.99	-9.43	42.56	74.00	-31.44	peak
2	1326.000	56.90	-9.59	47.31	74.00	-26.69	peak
3	1800.000	48.09	-6.02	42.07	74.00	-31.93	peak
4	1994.000	47.26	-5.03	42.23	74.00	-31.77	peak
5	2437.000	51.12	-3.62	47.50	/	/	fundamental
6	2720.000	46.34	-2.37	43.97	74.00	-30.03	peak

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



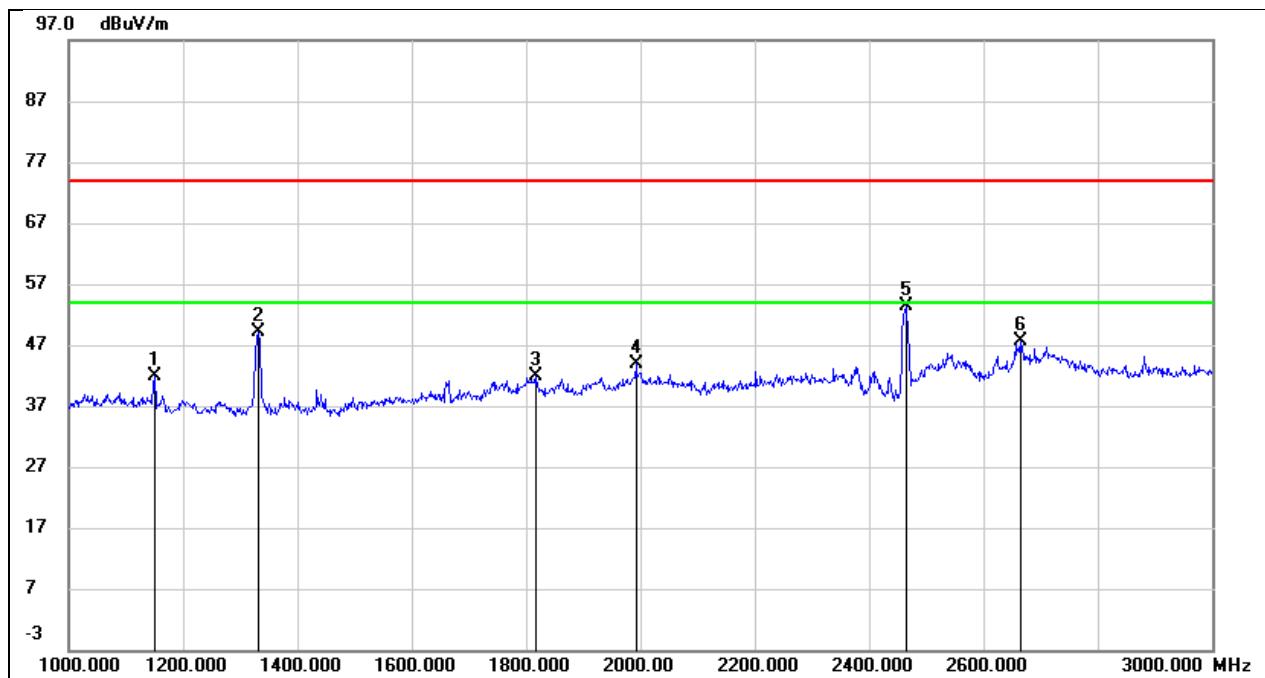
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1330.000	59.06	-9.59	49.47	74.00	-24.53	peak
2	1814.000	48.05	-5.95	42.10	74.00	-31.90	peak
3	1992.000	47.59	-5.04	42.55	74.00	-31.45	peak
4	2437.000	61.34	-3.62	57.72	/	/	fundamental
5	2510.000	54.00	-3.35	50.65	74.00	-23.35	peak
6	2666.000	49.43	-2.61	46.82	74.00	-27.18	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	51.49	-9.43	42.06	74.00	-31.94	peak
2	1326.000	56.02	-9.59	46.43	74.00	-27.57	peak
3	1794.000	47.91	-6.10	41.81	74.00	-32.19	peak
4	2000.000	47.58	-5.00	42.58	74.00	-31.42	peak
5	2462.000	49.76	-3.54	46.22	/	/	fundamental
6	2676.000	47.19	-2.56	44.63	74.00	-29.37	peak

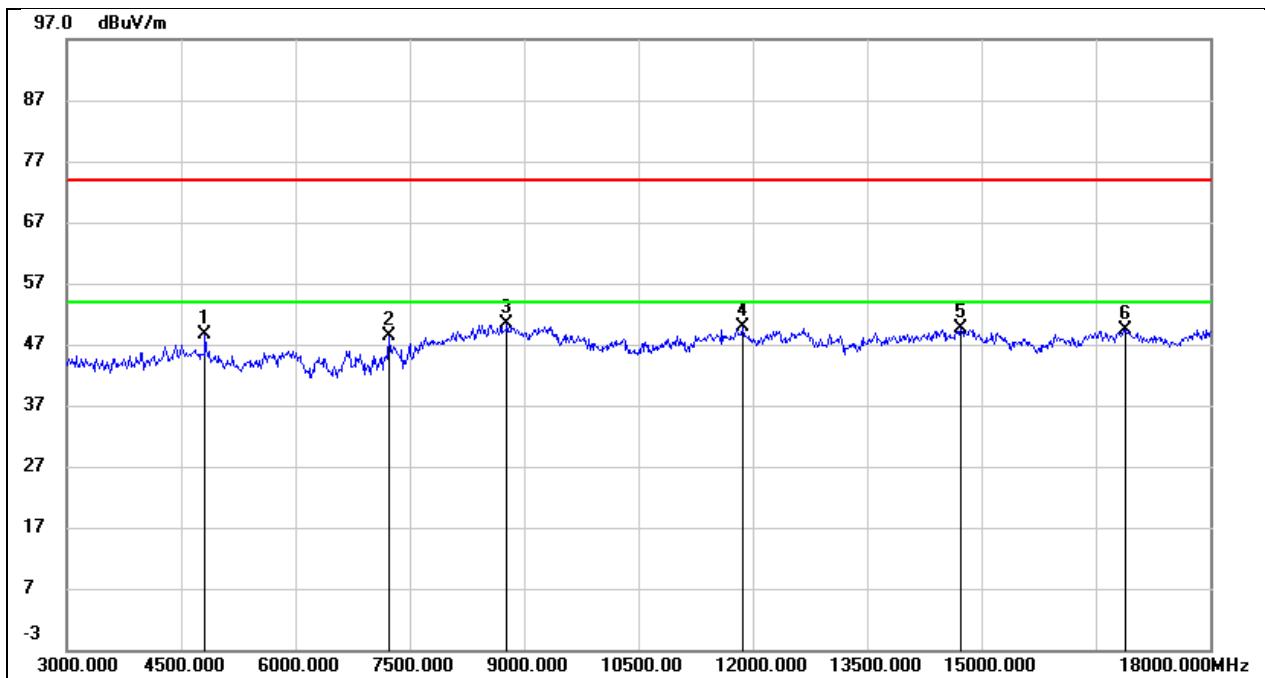
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1150.000	51.29	-9.41	41.88	74.00	-32.12	peak
2	1332.000	58.78	-9.60	49.18	74.00	-24.82	peak
3	1816.000	47.90	-5.94	41.96	74.00	-32.04	peak
4	1992.000	48.80	-5.04	43.76	74.00	-30.24	peak
5	2462.000	57.01	-3.52	53.49	/	/	fundamental
6	2664.000	50.30	-2.63	47.67	74.00	-26.33	peak

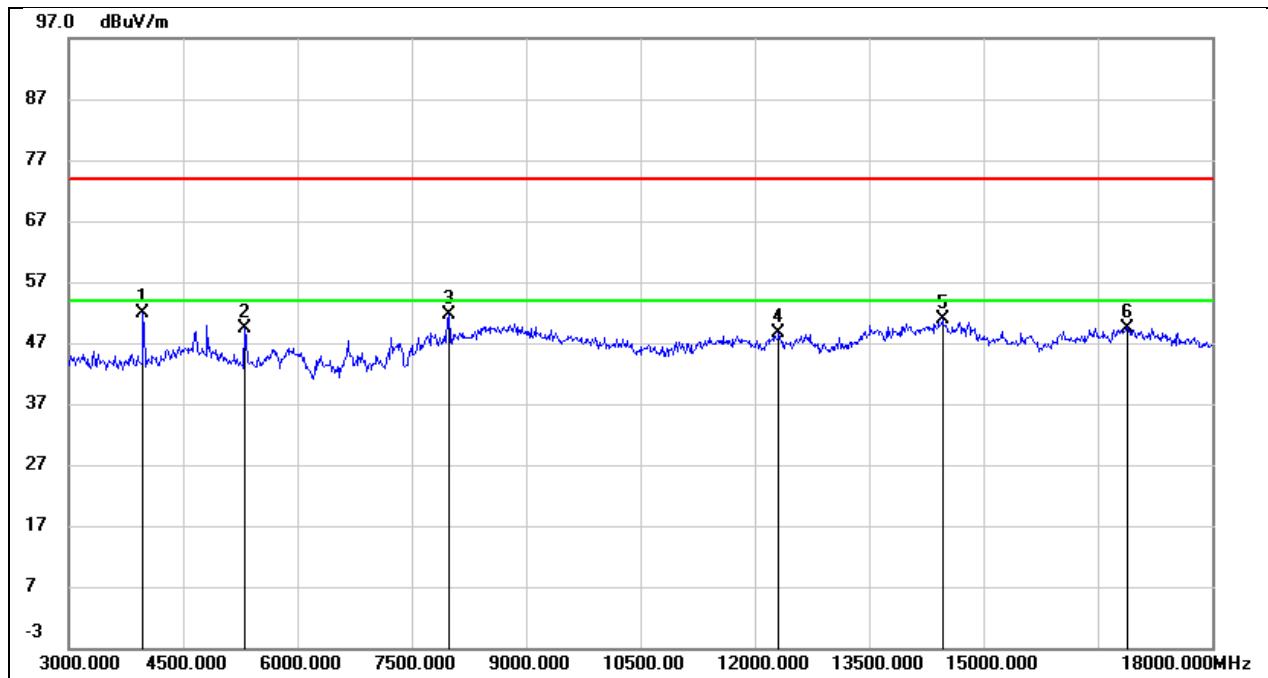
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

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



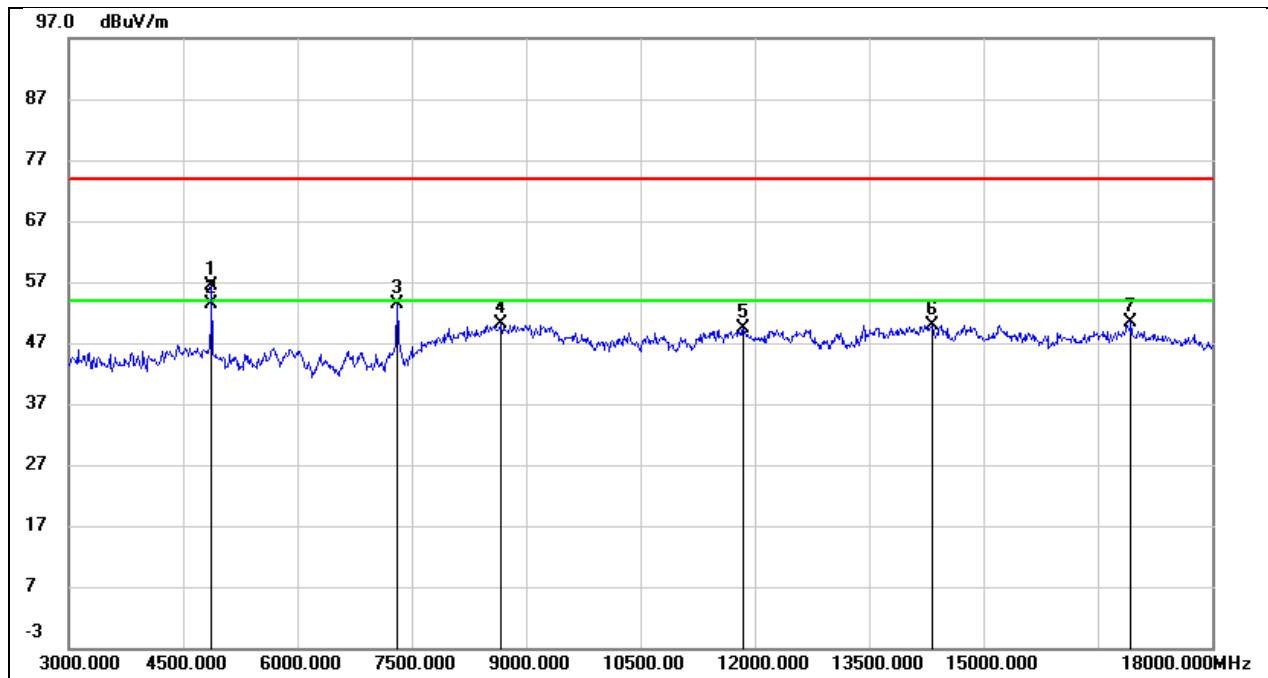
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	45.80	2.77	48.57	74.00	-25.43	peak
2	7230.000	41.58	6.80	48.38	74.00	-25.62	peak
3	8775.000	41.04	9.45	50.49	74.00	-23.51	peak
4	11865.000	33.25	16.66	49.91	74.00	-24.09	peak
5	14730.000	29.34	20.34	49.68	74.00	-24.32	peak
6	16890.000	25.56	23.92	49.48	74.00	-24.52	peak

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



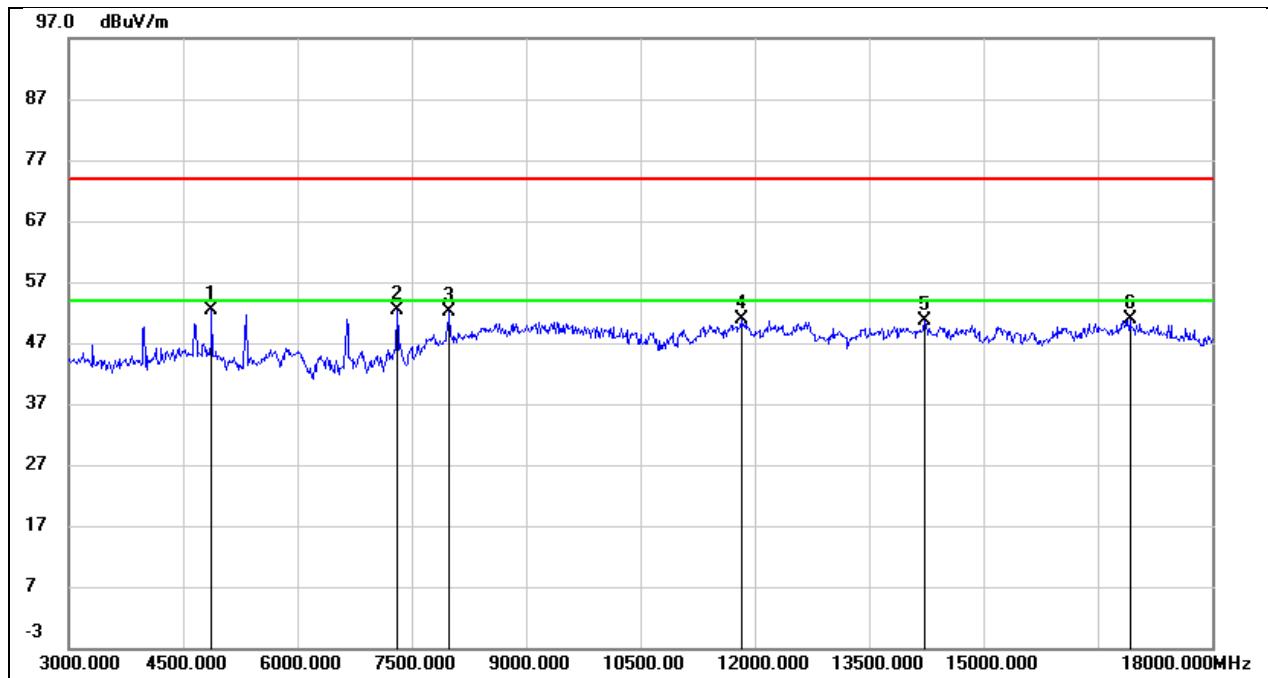
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	51.24	0.68	51.92	74.00	-22.08	peak
2	5310.000	46.23	3.10	49.33	74.00	-24.67	peak
3	7995.000	44.21	7.43	51.64	74.00	-22.36	peak
4	12315.000	31.37	17.19	48.56	74.00	-25.44	peak
5	14460.000	30.33	20.48	50.81	74.00	-23.19	peak
6	16890.000	25.58	23.92	49.50	74.00	-24.50	peak

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



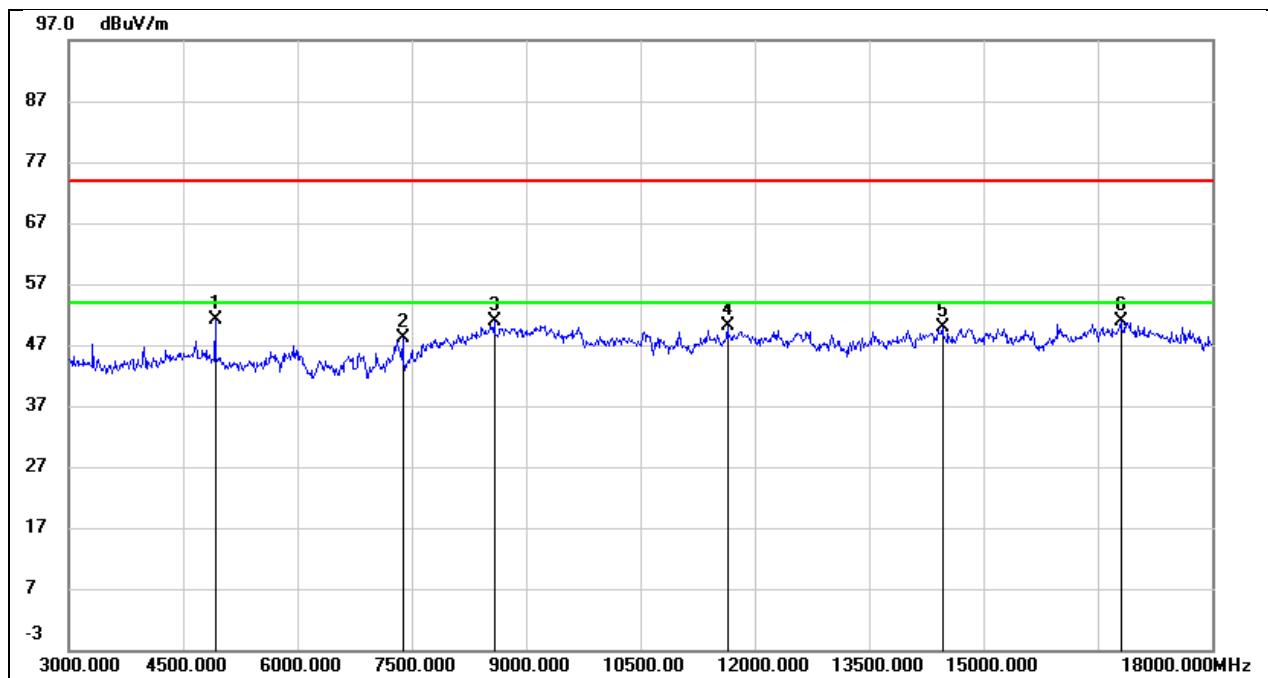
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	53.58	2.80	56.38	74.00	-17.62	peak
2	4875.000	50.52	2.80	53.32	54.00	-0.68	AVG
3	7305.000	46.51	6.82	53.33	74.00	-20.67	peak
4	8670.000	40.78	9.43	50.21	74.00	-23.79	peak
5	11850.000	32.83	16.63	49.46	74.00	-24.54	peak
6	14325.000	29.37	20.54	49.91	74.00	-24.09	peak
7	16935.000	26.59	23.91	50.50	74.00	-23.50	peak

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



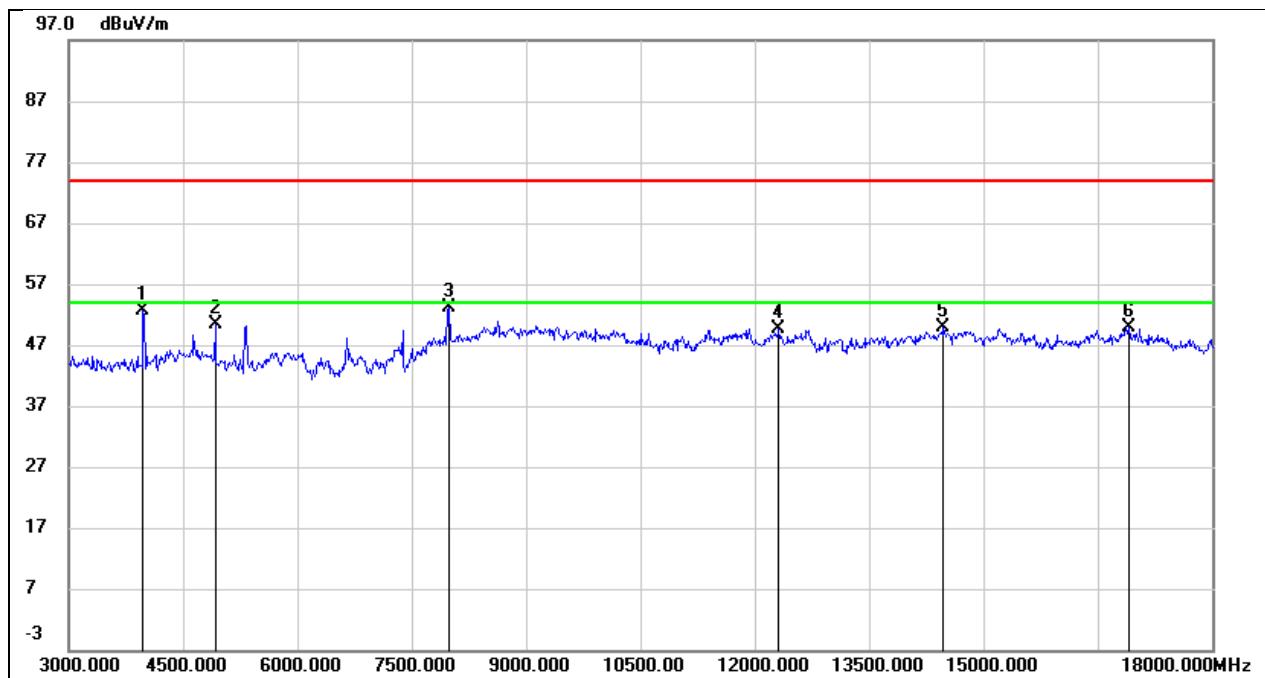
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	49.69	2.80	52.49	74.00	-21.51	peak
2	7305.000	45.49	6.82	52.31	74.00	-21.69	peak
3	7995.000	44.64	7.43	52.07	74.00	-21.93	peak
4	11820.000	34.42	16.57	50.99	74.00	-23.01	peak
5	14220.000	29.88	20.67	50.55	74.00	-23.45	peak
6	16920.000	26.99	23.91	50.90	74.00	-23.10	peak

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



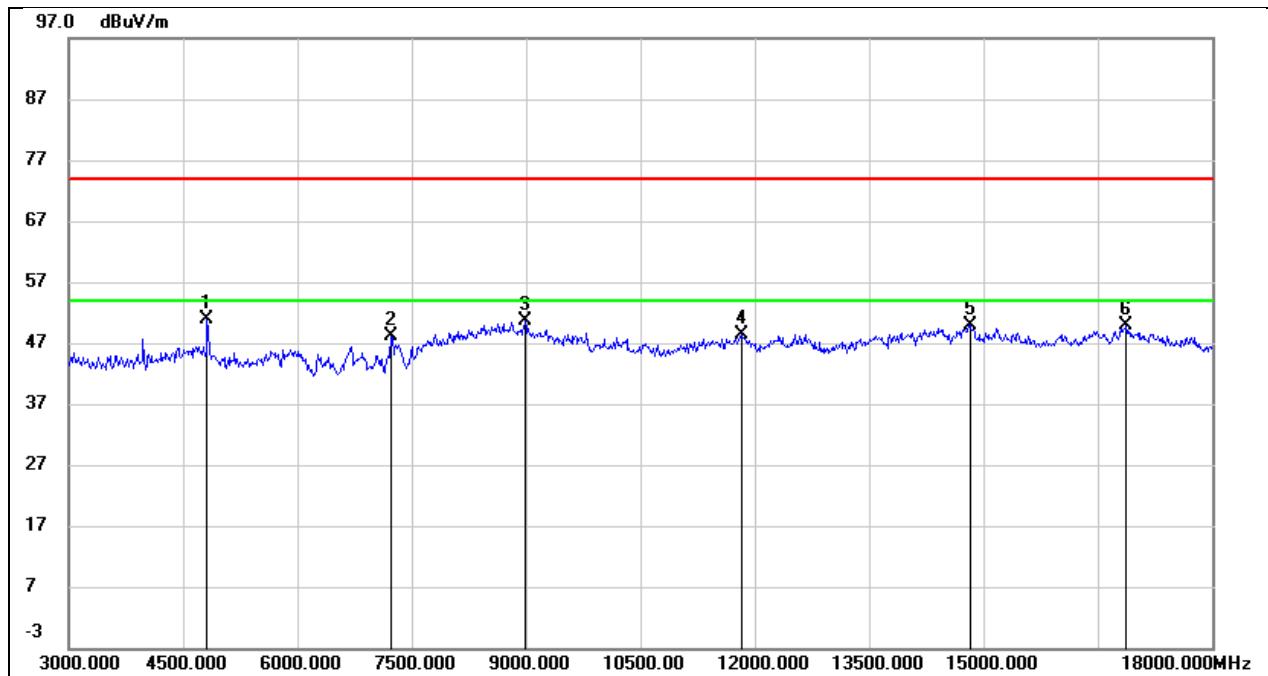
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	48.32	2.82	51.14	74.00	-22.86	peak
2	7380.000	41.23	6.85	48.08	74.00	-25.92	peak
3	8580.000	41.56	9.38	50.94	74.00	-23.06	peak
4	11640.000	34.00	16.14	50.14	74.00	-23.86	peak
5	14460.000	29.34	20.48	49.82	74.00	-24.18	peak
6	16800.000	26.91	23.95	50.86	74.00	-23.14	peak

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



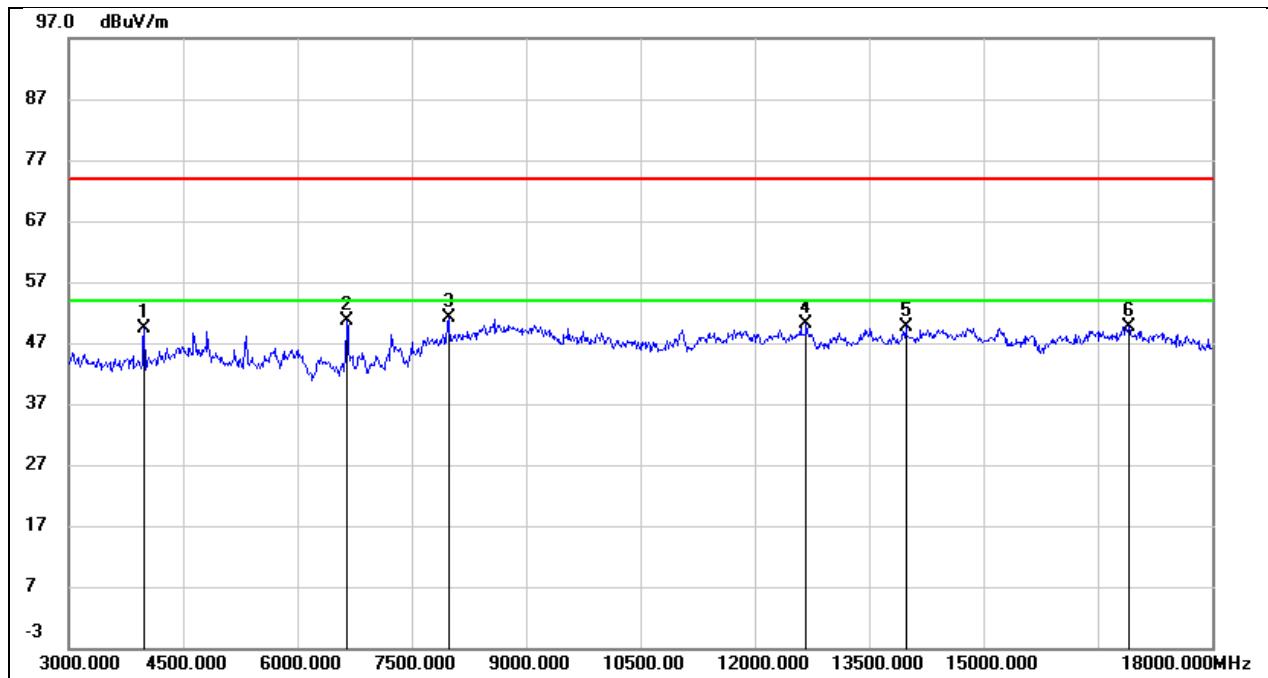
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	51.85	0.68	52.53	74.00	-21.47	peak
2	4920.000	47.58	2.82	50.40	74.00	-23.60	peak
3	7980.000	45.68	7.41	53.09	74.00	-20.91	peak
4	12315.000	32.49	17.19	49.68	74.00	-24.32	peak
5	14475.000	29.29	20.48	49.77	74.00	-24.23	peak
6	16905.000	26.02	23.91	49.93	74.00	-24.07	peak

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



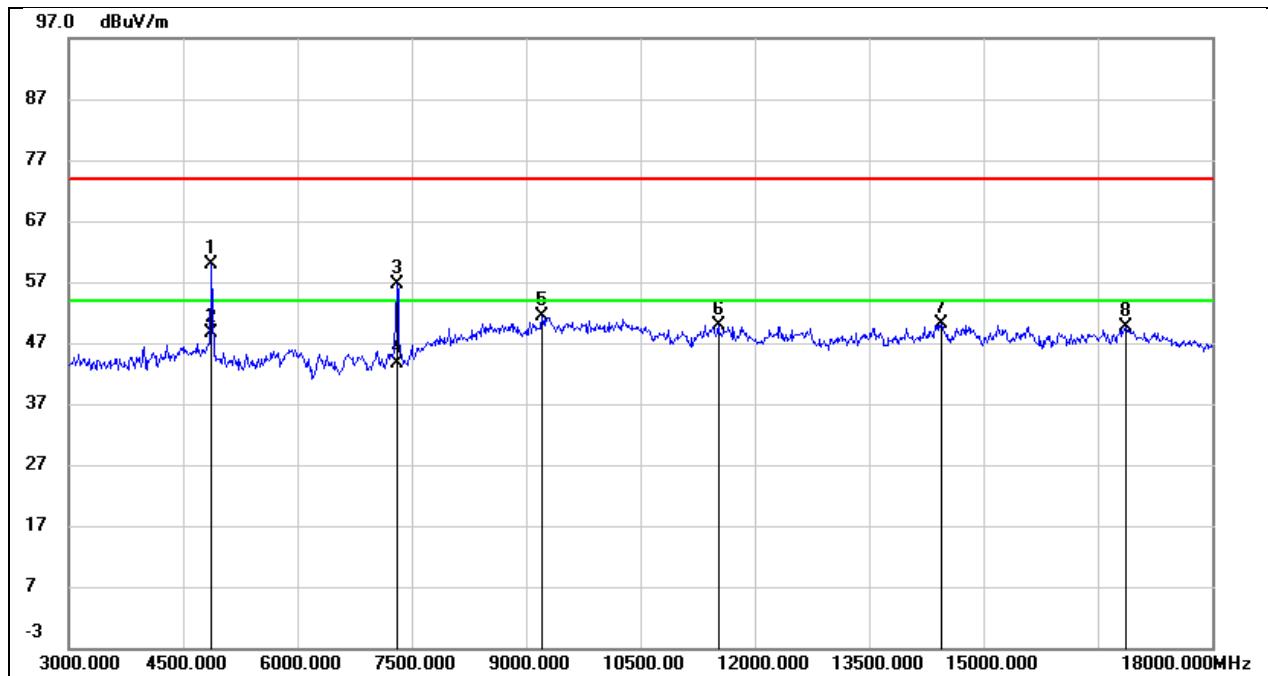
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.08	2.77	50.85	74.00	-23.15	peak
2	7230.000	41.37	6.80	48.17	74.00	-25.83	peak
3	8985.000	40.89	9.84	50.73	74.00	-23.27	peak
4	11820.000	31.83	16.57	48.40	74.00	-25.60	peak
5	14820.000	29.65	20.25	49.90	74.00	-24.10	peak
6	16875.000	25.88	23.92	49.80	74.00	-24.20	peak

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



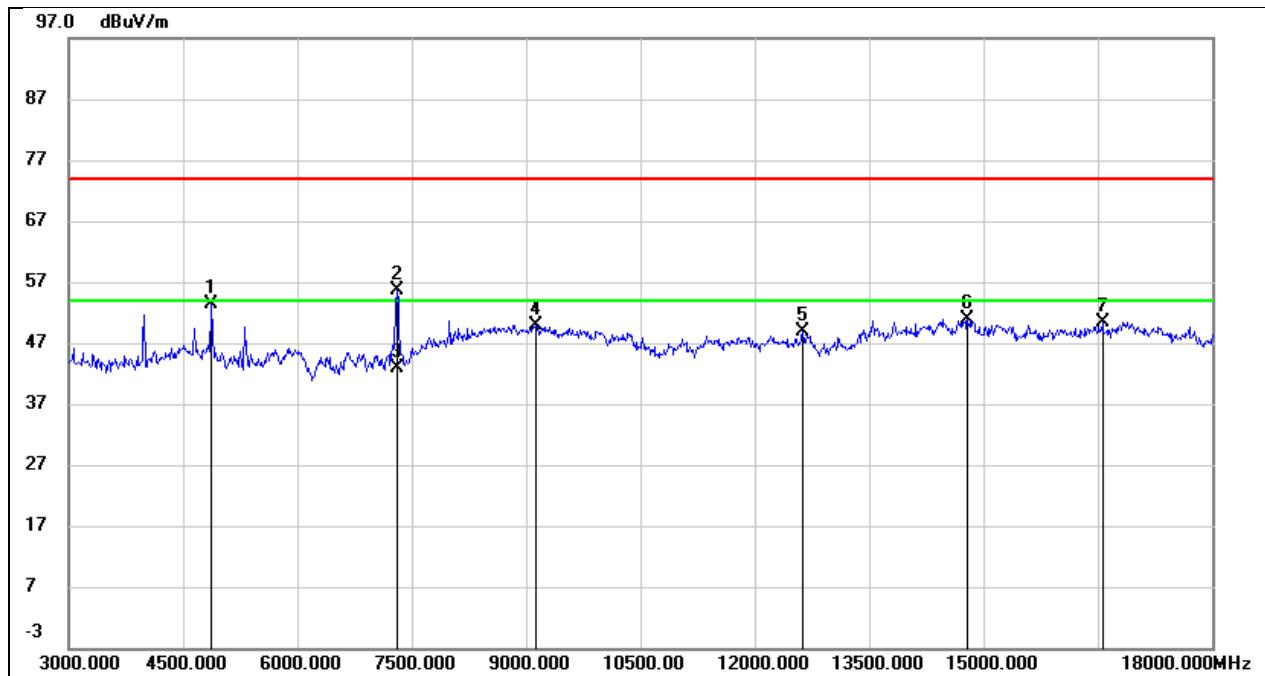
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	48.69	0.71	49.40	74.00	-24.60	peak
2	6645.000	44.87	5.84	50.71	74.00	-23.29	peak
3	7980.000	43.71	7.41	51.12	74.00	-22.88	peak
4	12675.000	33.01	17.12	50.13	74.00	-23.87	peak
5	13980.000	29.36	20.21	49.57	74.00	-24.43	peak
6	16905.000	25.83	23.91	49.74	74.00	-24.26	peak

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



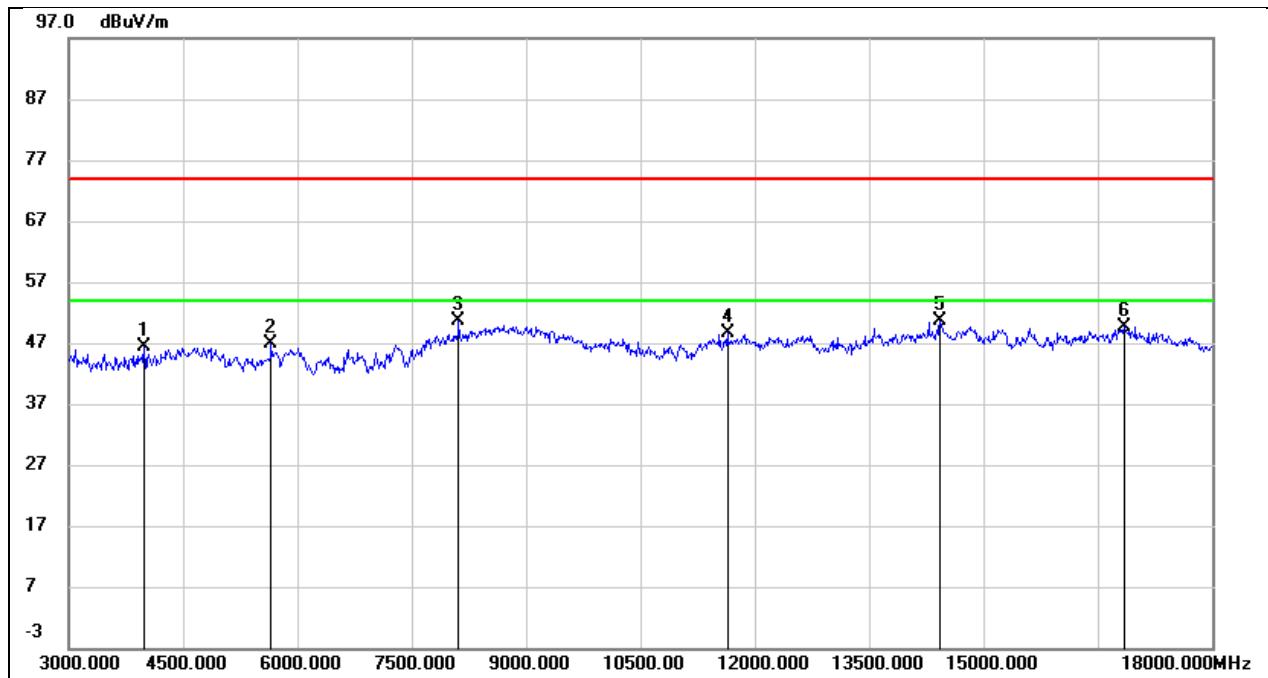
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	56.99	2.80	59.79	74.00	-14.21	peak
2	4875.000	45.81	2.80	48.61	54.00	-5.39	AVG
3	7305.000	49.83	6.82	56.65	74.00	-17.35	peak
4	7305.000	36.89	6.82	43.71	54.00	-10.29	AVG
5	9210.000	40.92	10.49	51.41	74.00	-22.59	peak
6	11520.000	33.93	15.83	49.76	74.00	-24.24	peak
7	14445.000	29.67	20.47	50.14	74.00	-23.86	peak
8	16860.000	25.61	23.93	49.54	74.00	-24.46	peak

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



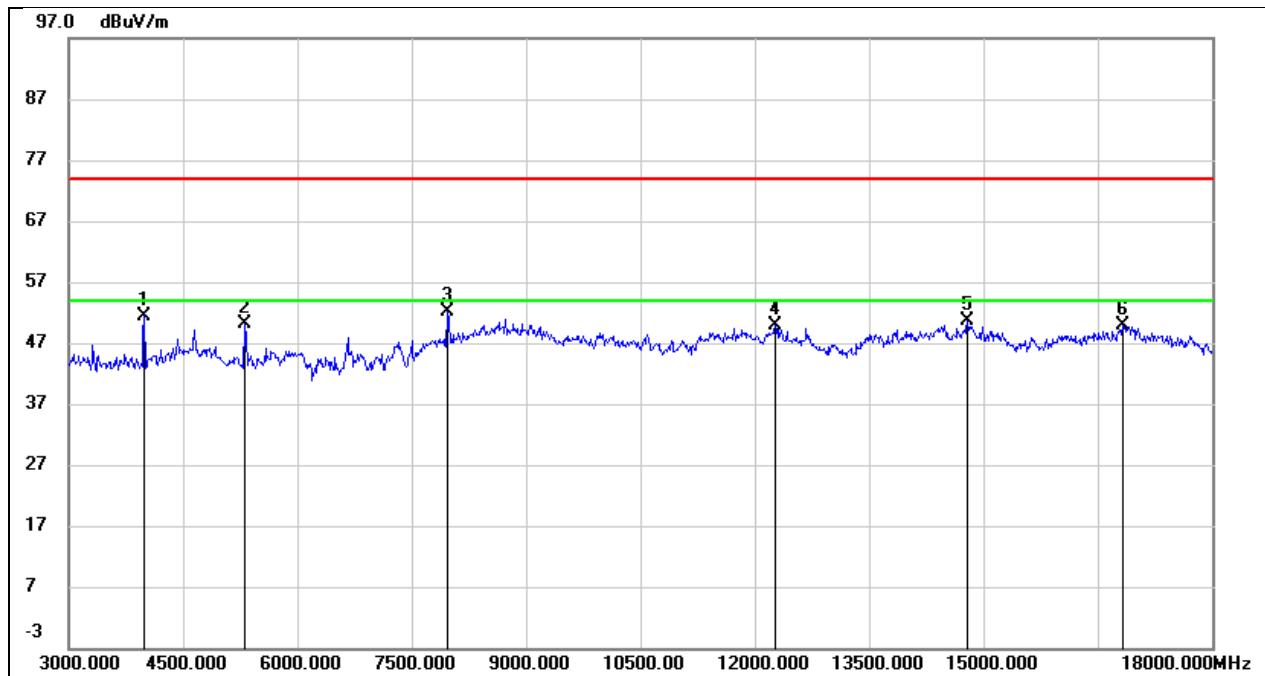
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	50.57	2.80	53.37	74.00	-20.63	peak
2	7305.000	48.83	6.82	55.65	74.00	-18.35	peak
3	7305.000	36.01	6.82	42.83	54.00	-11.17	AVG
4	9135.000	39.60	10.28	49.88	74.00	-24.12	peak
5	12630.000	31.71	17.11	48.82	74.00	-25.18	peak
6	14790.000	30.62	20.28	50.90	74.00	-23.10	peak
7	16560.000	26.83	23.64	50.47	74.00	-23.53	peak

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



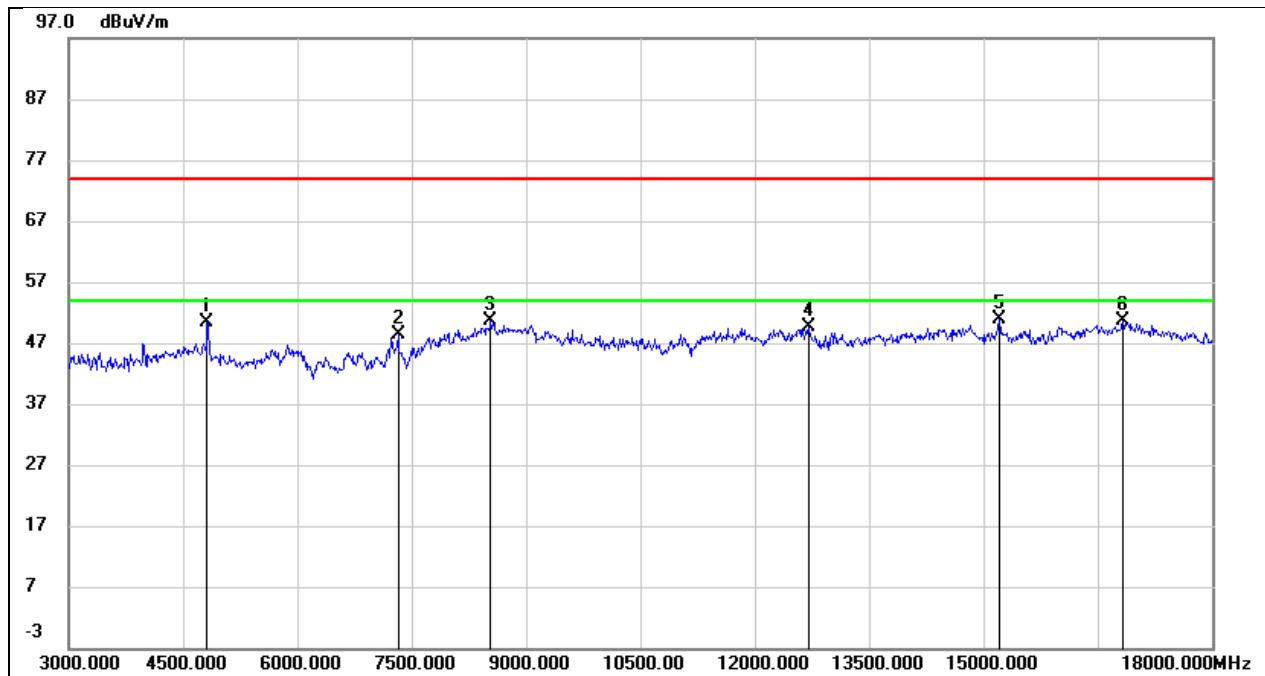
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	45.62	0.71	46.33	74.00	-27.67	peak
2	5655.000	43.01	3.88	46.89	74.00	-27.11	peak
3	8115.000	42.73	7.92	50.65	74.00	-23.35	peak
4	11640.000	32.46	16.14	48.60	74.00	-25.40	peak
5	14430.000	30.17	20.47	50.64	74.00	-23.36	peak
6	16845.000	25.60	23.94	49.54	74.00	-24.46	peak

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



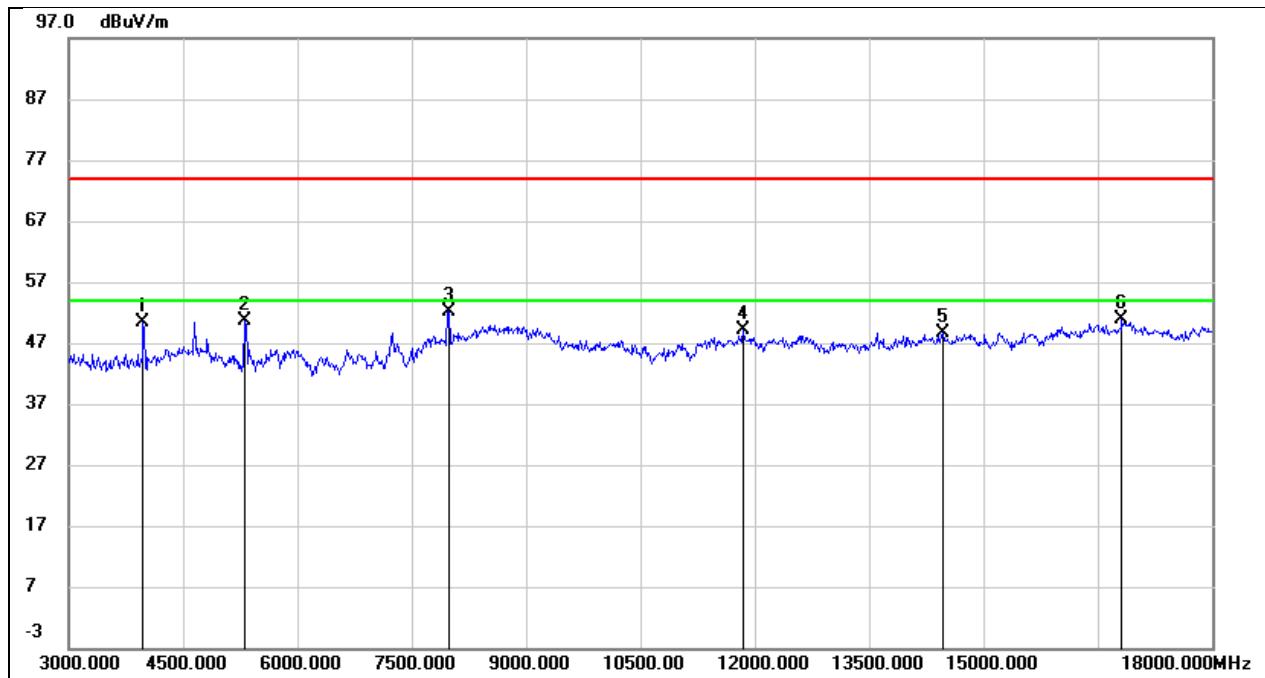
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	50.79	0.71	51.50	74.00	-22.50	peak
2	5310.000	46.92	3.10	50.02	74.00	-23.98	peak
3	7965.000	44.63	7.39	52.02	74.00	-21.98	peak
4	12270.000	32.71	17.11	49.82	74.00	-24.18	peak
5	14790.000	30.45	20.28	50.73	74.00	-23.27	peak
6	16830.000	25.95	23.94	49.89	74.00	-24.11	peak

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



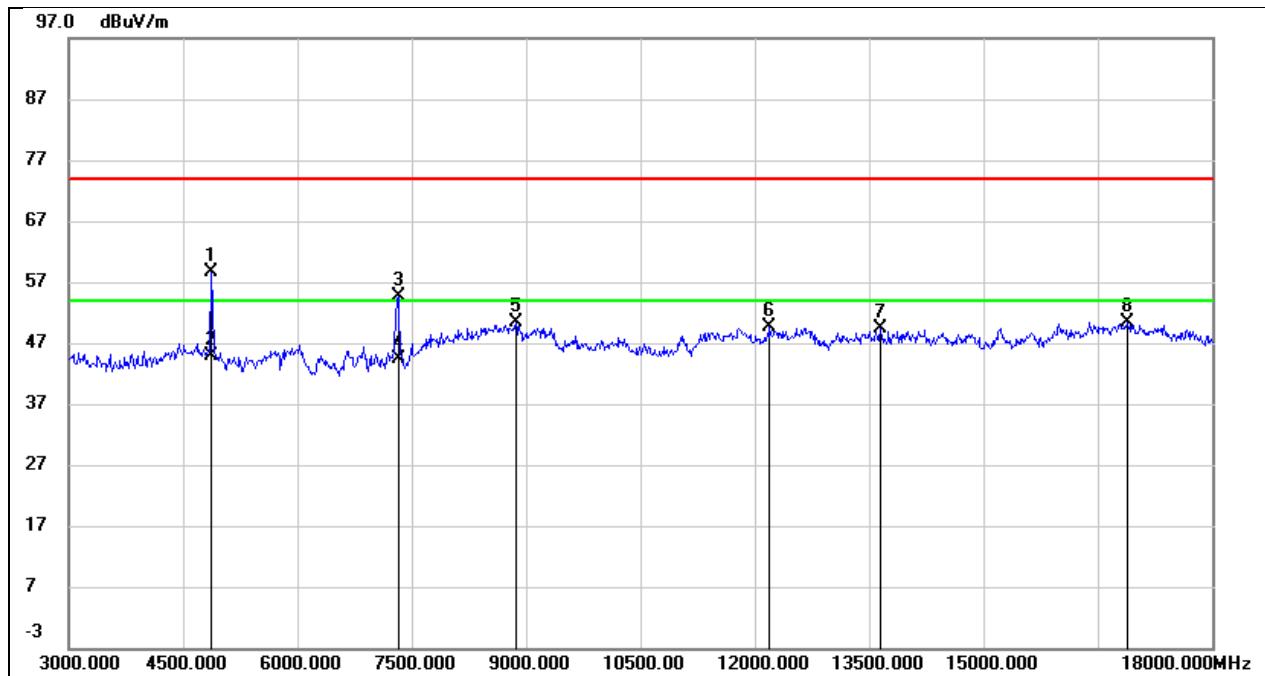
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	47.57	2.77	50.34	74.00	-23.66	peak
2	7320.000	41.44	6.83	48.27	74.00	-25.73	peak
3	8535.000	41.29	9.29	50.58	74.00	-23.42	peak
4	12705.000	32.40	17.11	49.51	74.00	-24.49	peak
5	15210.000	30.56	20.39	50.95	74.00	-23.05	peak
6	16830.000	26.59	23.94	50.53	74.00	-23.47	peak

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



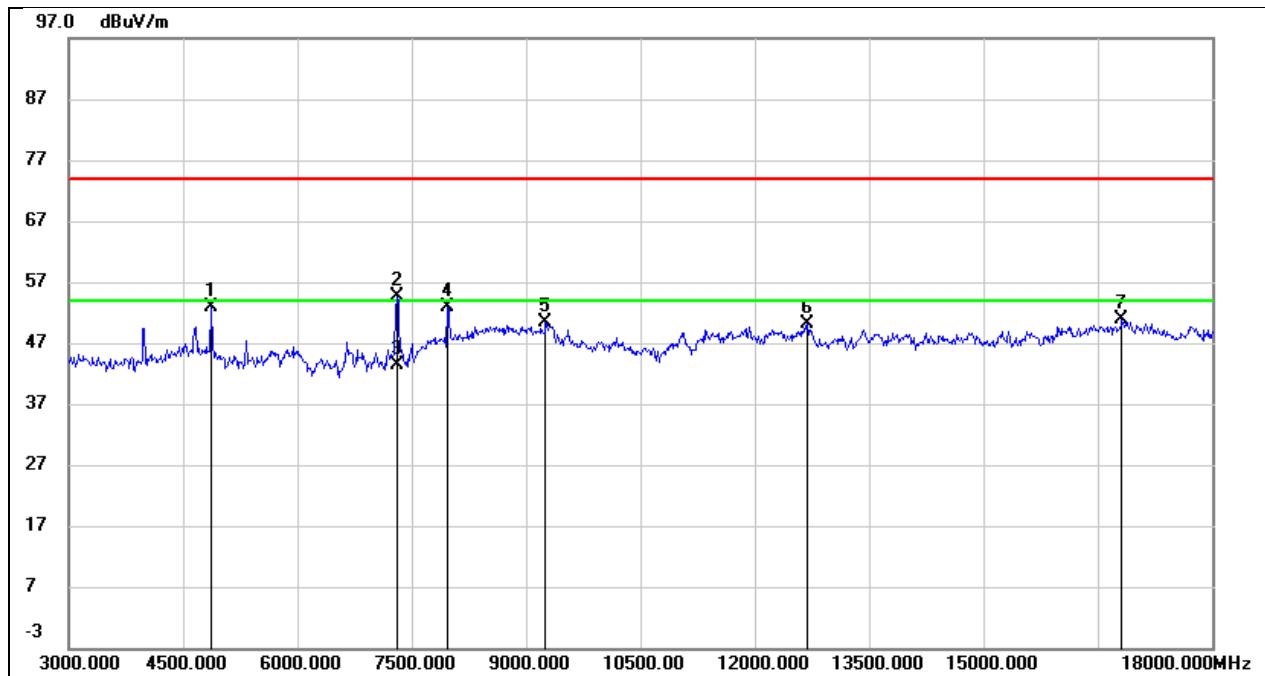
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	49.70	0.68	50.38	74.00	-23.62	peak
2	5310.000	47.46	3.10	50.56	74.00	-23.44	peak
3	7995.000	44.75	7.43	52.18	74.00	-21.82	peak
4	11850.000	32.54	16.63	49.17	74.00	-24.83	peak
5	14460.000	28.24	20.48	48.72	74.00	-25.28	peak
6	16815.000	26.90	23.94	50.84	74.00	-23.16	peak

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



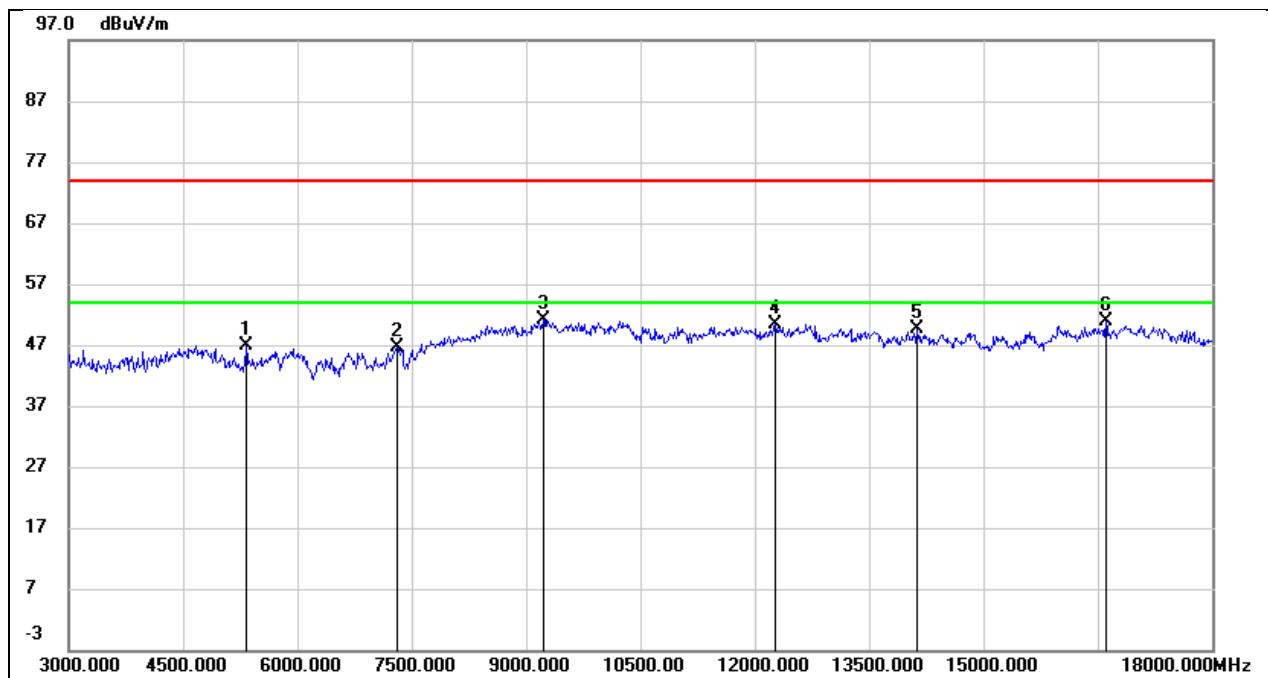
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	55.89	2.80	58.69	74.00	-15.31	peak
2	4860.000	42.19	2.80	44.99	54.00	-9.01	AVG
3	7320.000	47.78	6.83	54.61	74.00	-19.39	peak
4	7320.000	37.62	6.83	44.45	54.00	-9.55	AVG
5	8865.000	40.68	9.59	50.27	74.00	-23.73	peak
6	12195.000	32.66	17.01	49.67	74.00	-24.33	peak
7	13650.000	30.00	19.26	49.26	74.00	-24.74	peak
8	16890.000	26.56	23.92	50.48	74.00	-23.52	peak

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



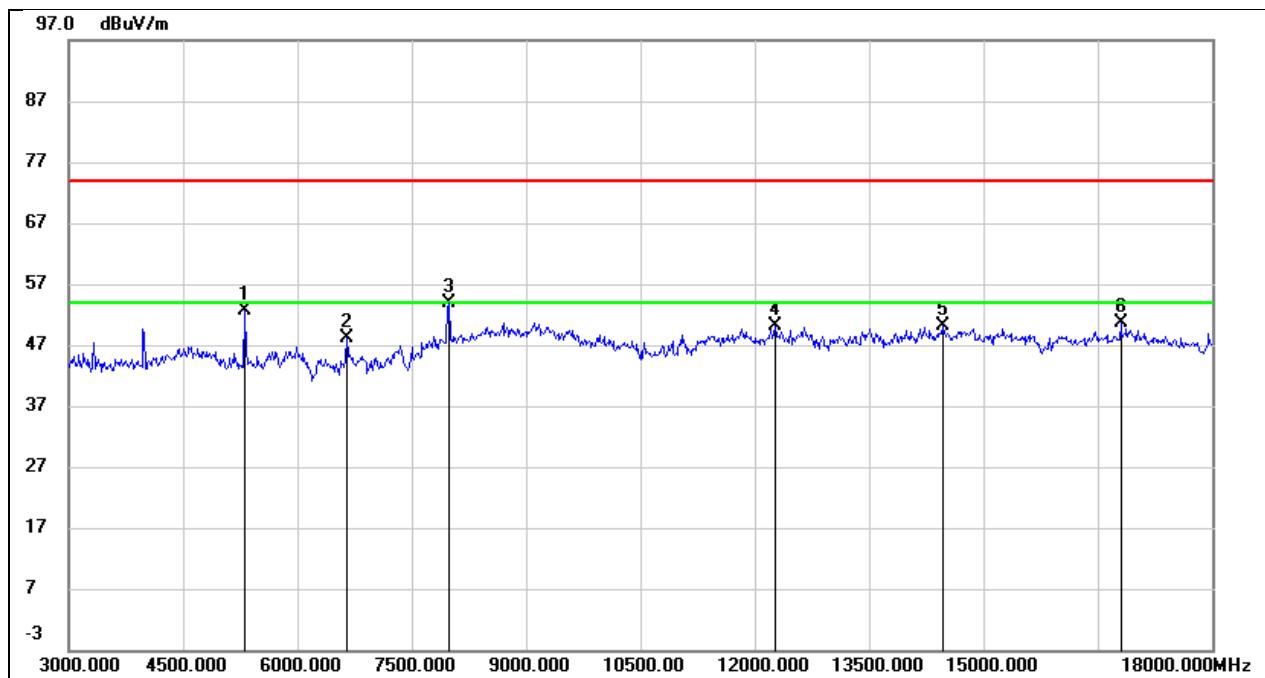
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	50.12	2.80	52.92	74.00	-21.08	peak
2	7305.000	47.72	6.82	54.54	74.00	-19.46	peak
3	7305.000	36.45	6.82	43.27	54.00	-10.73	AVG
4	7965.000	45.51	7.39	52.90	74.00	-21.10	peak
5	9255.000	39.68	10.61	50.29	74.00	-23.71	peak
6	12690.000	33.02	17.11	50.13	74.00	-23.87	peak
7	16815.000	26.82	23.94	50.76	74.00	-23.24	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	5325.000	43.78	3.14	46.92	74.00	-27.08	peak
2	7305.000	39.91	6.82	46.73	74.00	-27.27	peak
3	9225.000	40.61	10.53	51.14	74.00	-22.86	peak
4	12270.000	33.29	17.11	50.40	74.00	-23.60	peak
5	14130.000	28.98	20.55	49.53	74.00	-24.47	peak
6	16605.000	27.22	23.70	50.92	74.00	-23.08	peak

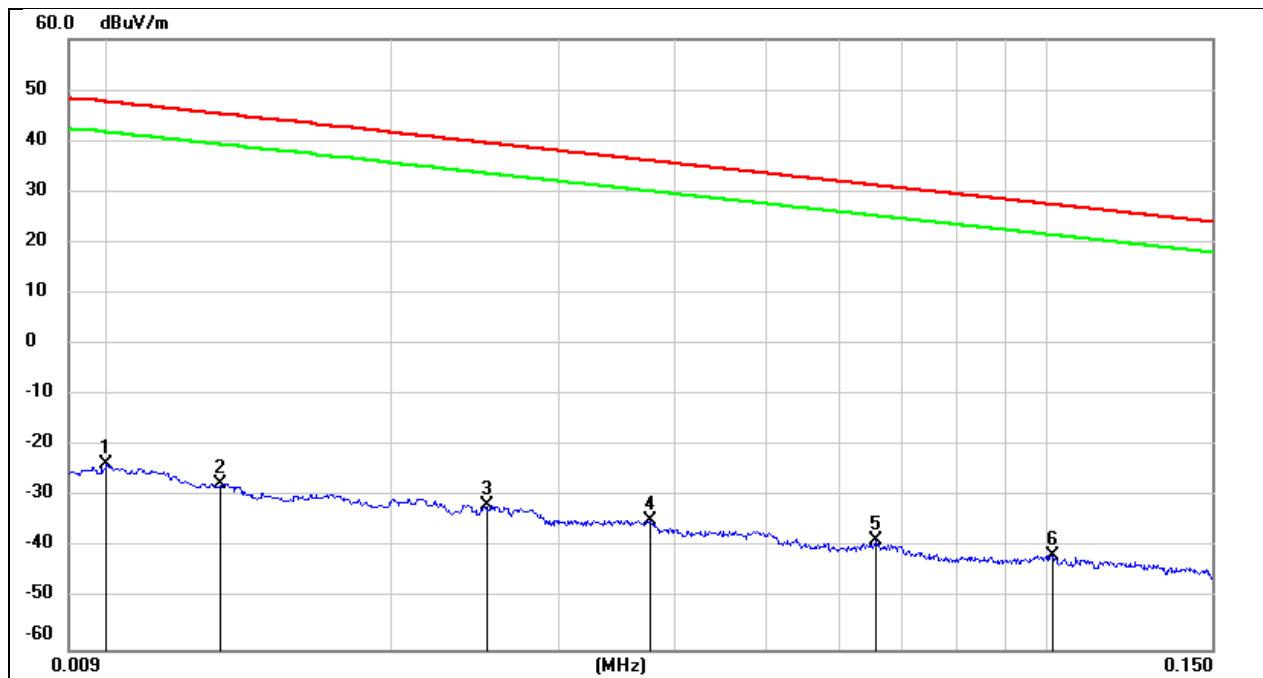
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5310.000	49.52	3.10	52.62	74.00	-21.38	peak
2	6645.000	42.23	5.84	48.07	74.00	-25.93	peak
3	7995.000	46.52	7.43	53.95	74.00	-20.05	peak
4	12270.000	33.03	17.11	50.14	74.00	-23.86	peak
5	14460.000	29.66	20.48	50.14	74.00	-23.86	peak
6	16800.000	26.59	23.95	50.54	74.00	-23.46	peak

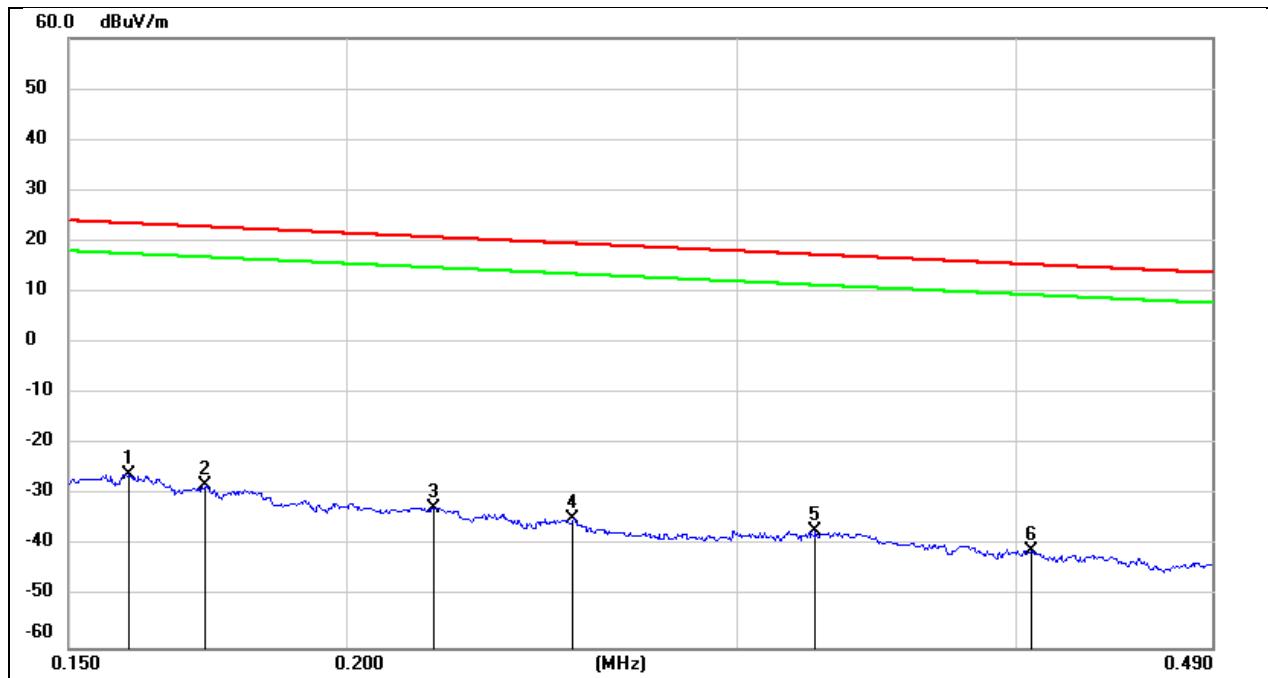
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

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



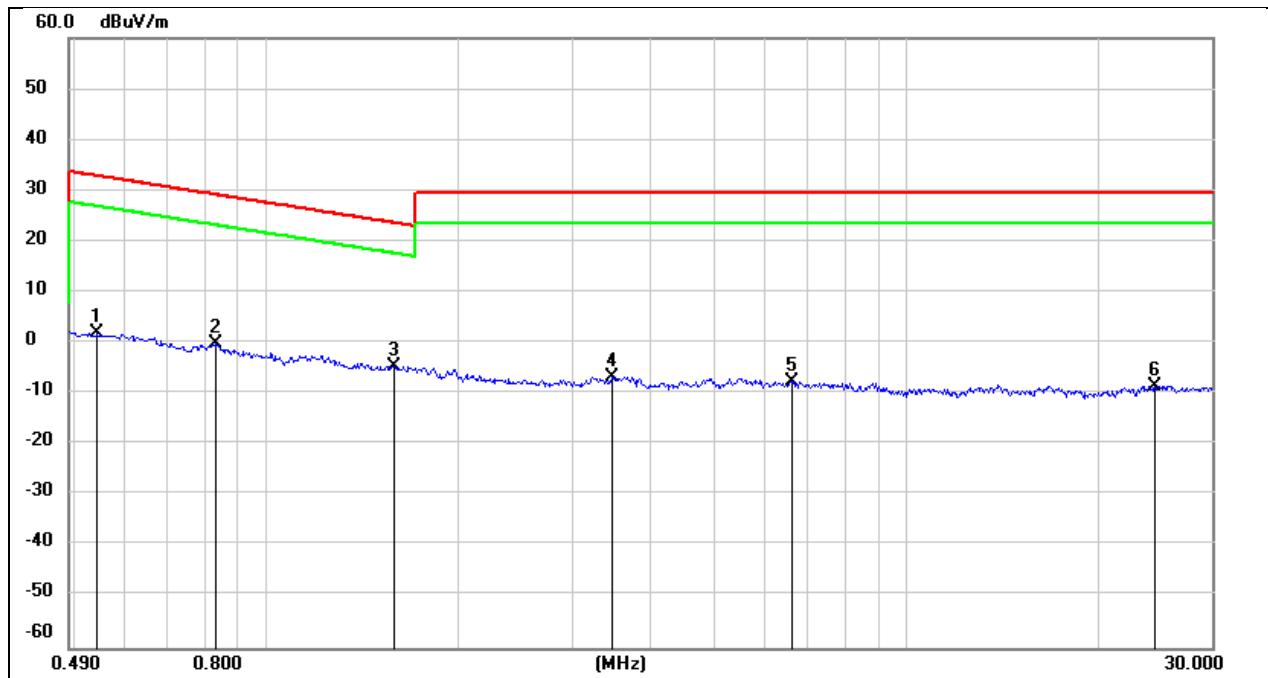
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	77.72	-101.40	-23.68	47.60	-71.28	peak
2	0.0131	73.97	-101.38	-27.41	45.25	-72.66	peak
3	0.0252	69.82	-101.37	-31.55	39.57	-71.12	peak
4	0.0376	66.75	-101.42	-34.67	36.10	-70.77	peak
5	0.0656	62.86	-101.55	-38.69	31.26	-69.95	peak
6	0.1015	60.25	-101.79	-41.54	27.47	-69.01	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	0.1597	75.85	-101.65	-25.80	23.54	-49.34	peak
2	0.1728	73.49	-101.67	-28.18	22.86	-51.04	peak
3	0.2190	69.27	-101.75	-32.48	20.79	-53.27	peak
4	0.2530	67.14	-101.80	-34.66	19.54	-54.20	peak
5	0.3251	64.71	-101.88	-37.17	17.36	-54.53	peak
6	0.4062	61.14	-101.96	-40.82	15.43	-56.25	peak

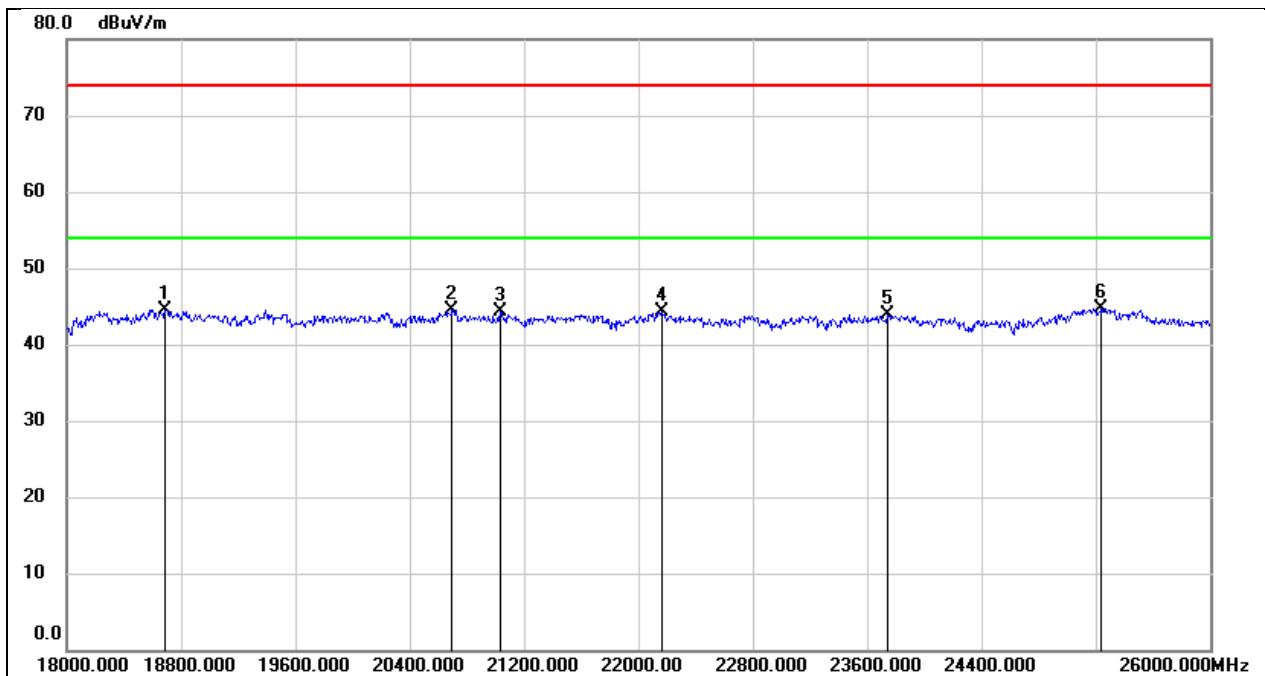
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5431	63.90	-62.08	1.82	32.91	-31.09	peak
2	0.8296	61.94	-62.17	-0.23	29.23	-29.46	peak
3	1.5826	57.38	-62.01	-4.63	23.61	-28.24	peak
4	3.4704	54.85	-61.46	-6.61	29.54	-36.15	peak
5	6.5998	53.62	-61.27	-7.65	29.54	-37.19	peak
6	24.5106	52.08	-60.49	-8.41	29.54	-37.95	peak

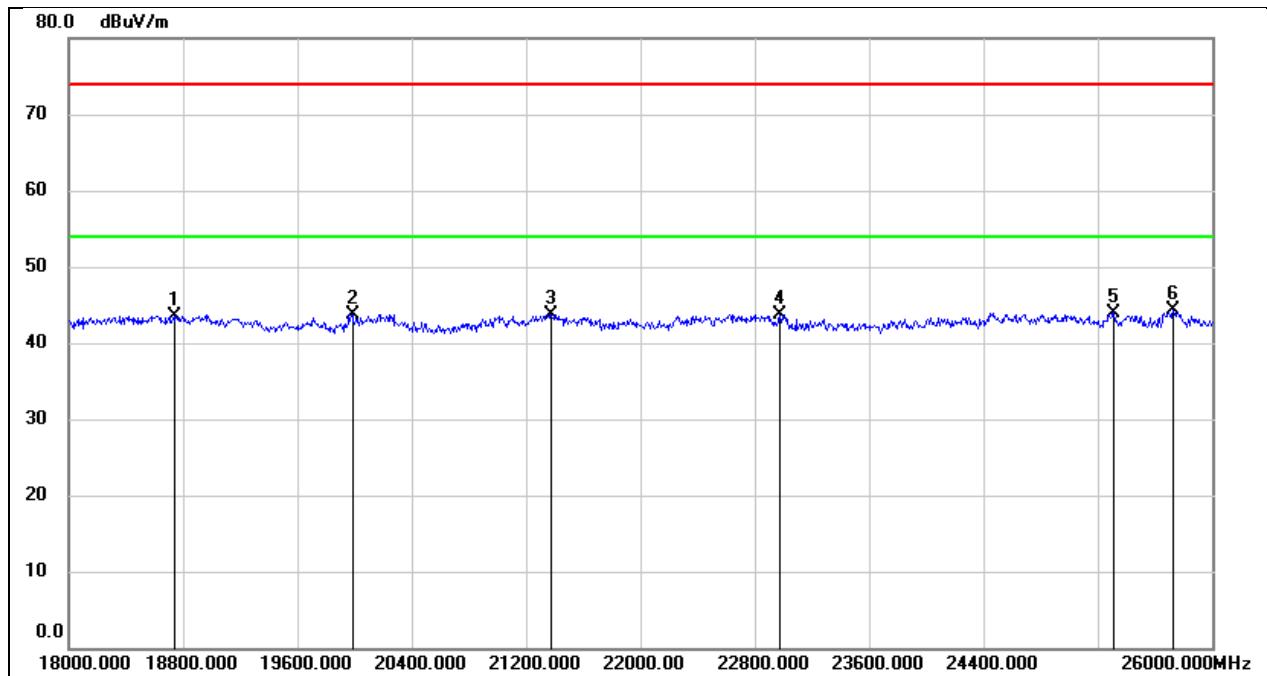
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

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	18688.000	49.88	-5.38	44.50	74.00	-29.50	peak
2	20696.000	49.71	-5.16	44.55	74.00	-29.45	peak
3	21032.000	49.15	-4.87	44.28	74.00	-29.72	peak
4	22160.000	48.58	-4.31	44.27	74.00	-29.73	peak
5	23744.000	47.15	-3.20	43.95	74.00	-30.05	peak
6	25240.000	46.46	-1.68	44.78	74.00	-29.22	peak

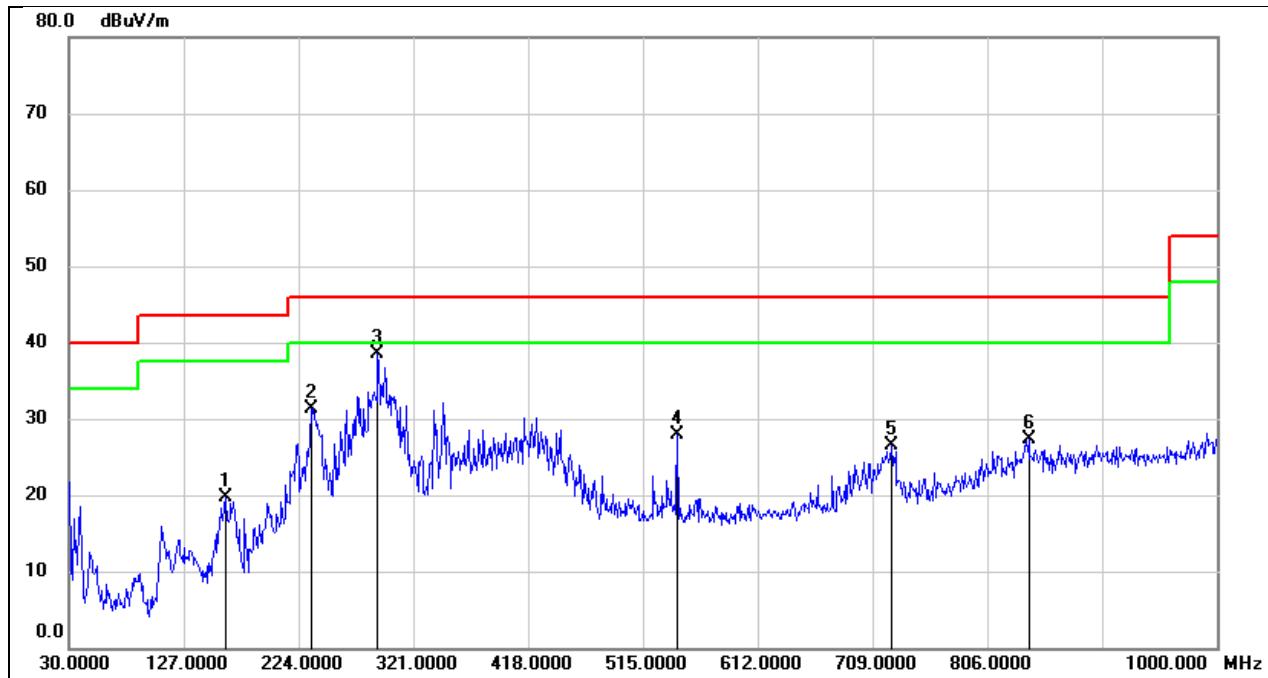
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V, 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18736.000	49.01	-5.41	43.60	74.00	-30.40	peak
2	19984.000	49.21	-5.44	43.77	74.00	-30.23	peak
3	21376.000	48.49	-4.73	43.76	74.00	-30.24	peak
4	22976.000	47.26	-3.46	43.80	74.00	-30.20	peak
5	25312.000	45.70	-1.70	44.00	74.00	-30.00	peak
6	25728.000	45.11	-0.72	44.39	74.00	-29.61	peak

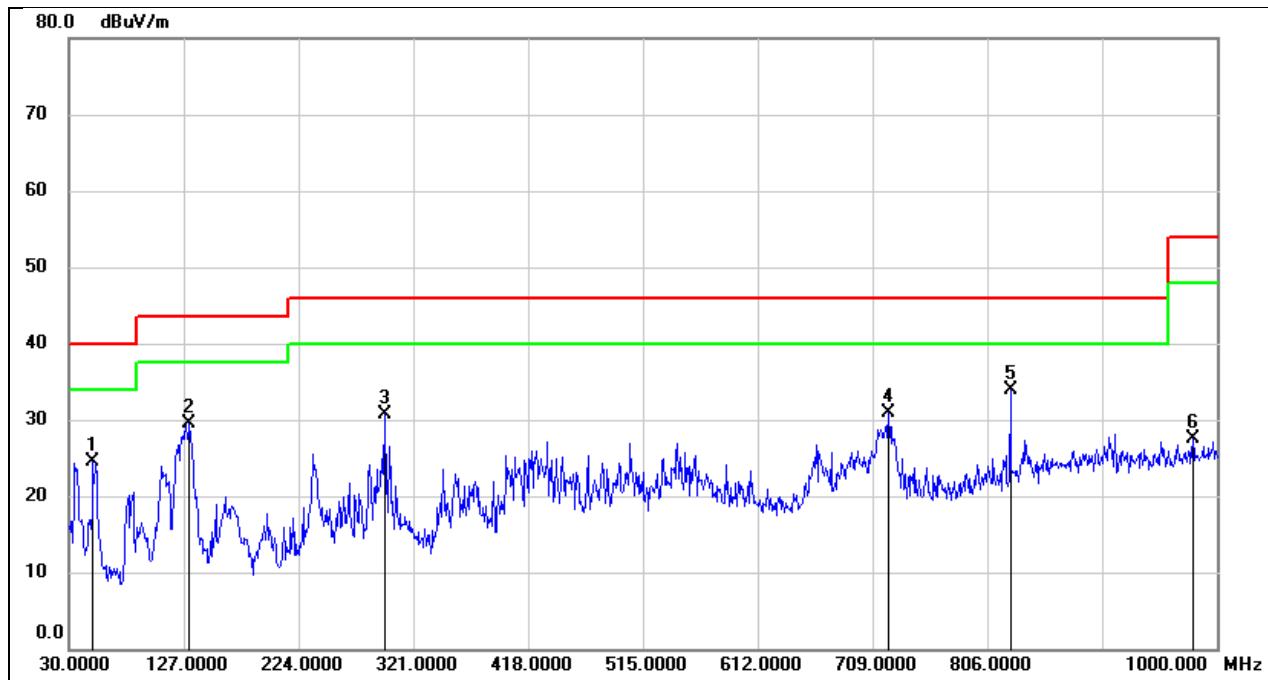
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	161.9200	32.36	-12.64	19.72	43.50	-23.78	QP
2	234.6700	44.97	-13.74	31.23	46.00	-14.77	QP
3	290.9300	50.48	-12.07	38.41	46.00	-7.59	QP
4	544.1000	34.97	-7.11	27.86	46.00	-18.14	QP
5	725.4900	30.28	-3.87	26.41	46.00	-19.59	QP
6	840.9200	28.88	-1.54	27.34	46.00	-18.66	QP

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	50.3700	39.60	-15.09	24.51	40.00	-15.49	QP
2	131.8500	43.87	-14.32	29.55	43.50	-13.95	QP
3	296.7500	42.39	-11.71	30.68	46.00	-15.32	QP
4	722.5800	34.75	-3.91	30.84	46.00	-15.16	QP
5	825.4000	35.83	-1.94	33.89	46.00	-12.11	QP
6	979.6300	27.88	-0.42	27.46	54.00	-26.54	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).

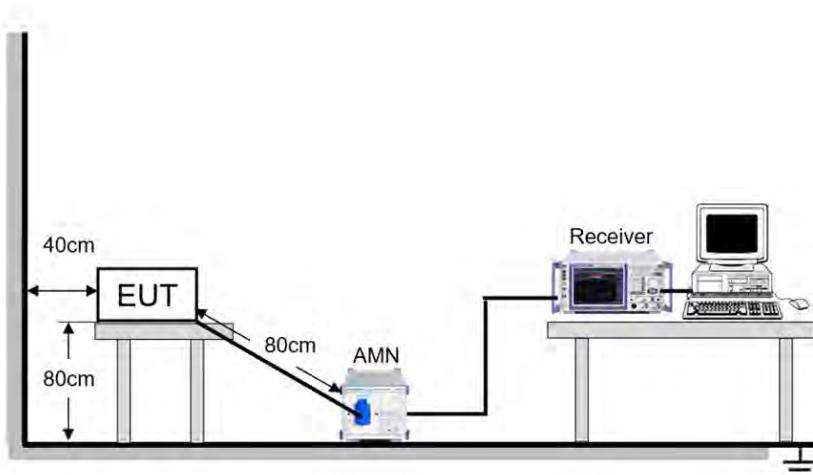
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

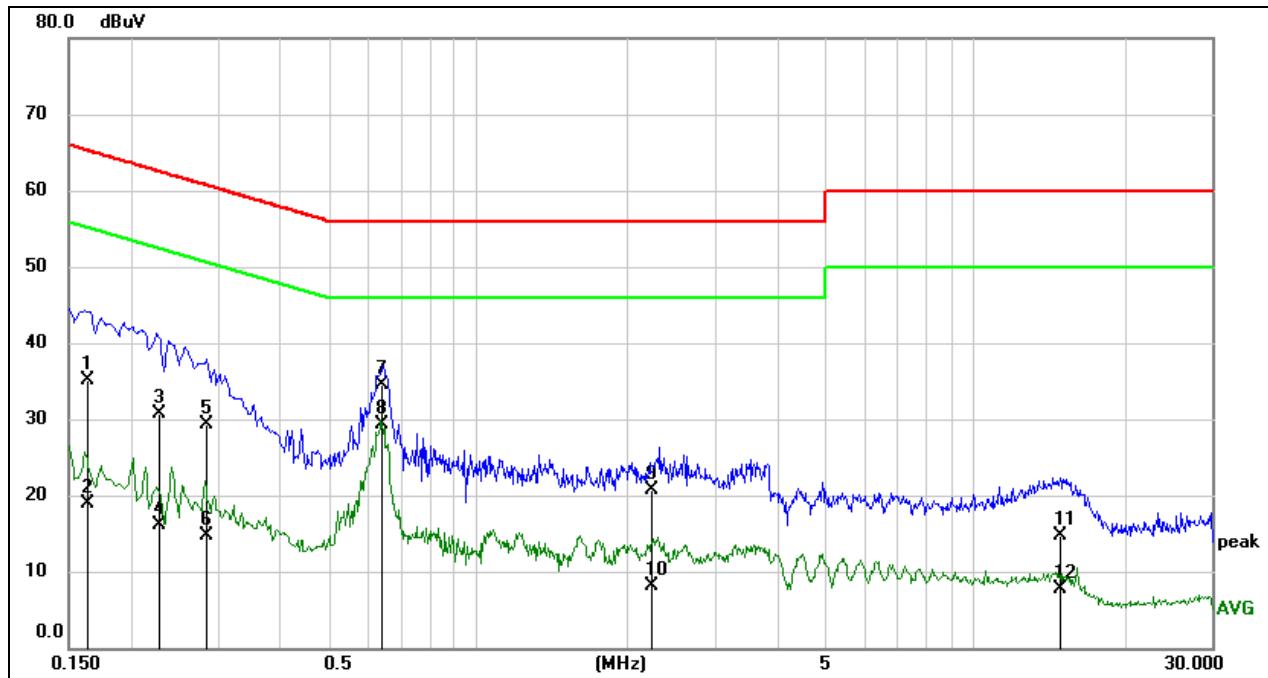
Temperature	24.1 °C	Relative Humidity	54.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

TEST DATE / ENGINEER

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

Test Mode:	802.11g	Frequency(MHz):	2437
Line:	Line		



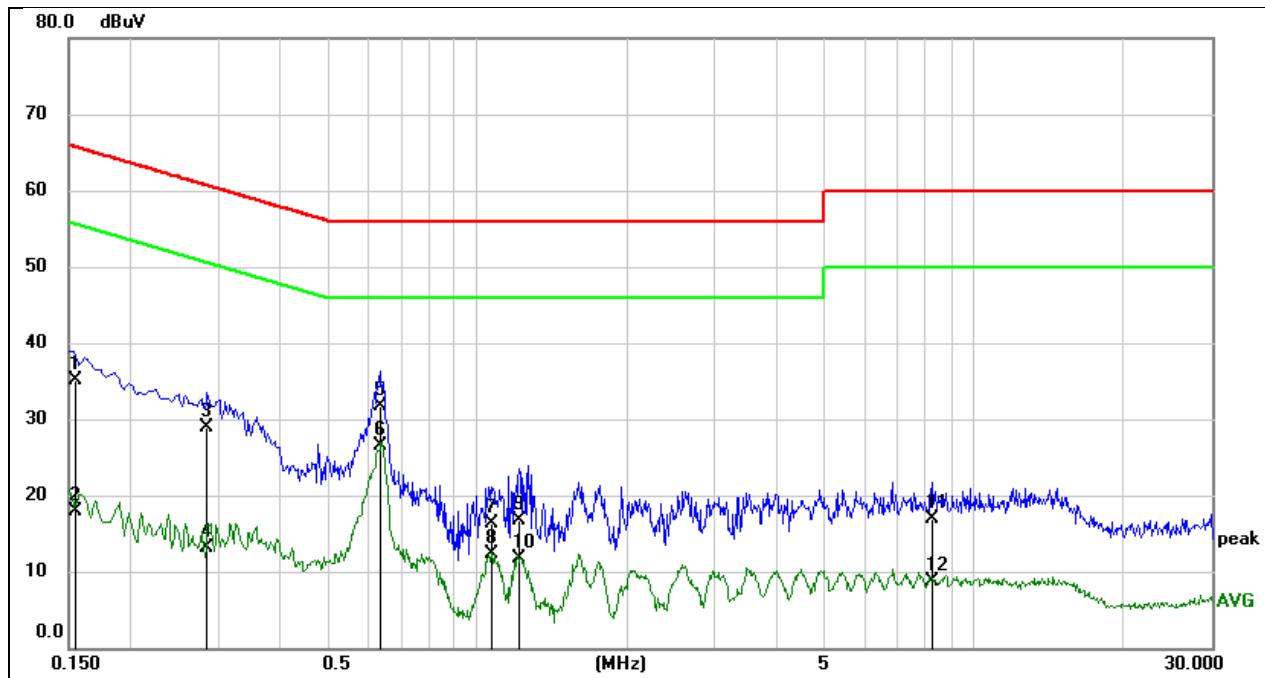
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1642	25.44	9.71	35.15	65.25	-30.10	QP
2	0.1642	9.24	9.71	18.95	55.25	-36.30	AVG
3	0.2296	21.09	9.64	30.73	62.46	-31.73	QP
4	0.2296	6.42	9.64	16.06	52.46	-36.40	AVG
5	0.2840	19.72	9.64	29.36	60.70	-31.34	QP
6	0.2840	5.10	9.64	14.74	50.70	-35.96	AVG
7	0.6408	24.91	9.63	34.54	56.00	-21.46	QP
8	0.6408	19.77	9.63	29.40	46.00	-16.60	AVG
9	2.2543	10.93	9.74	20.67	56.00	-35.33	QP
10	2.2543	-1.56	9.74	8.18	46.00	-37.82	AVG
11	14.8375	4.99	9.74	14.73	60.00	-45.27	QP
12	14.8375	-2.08	9.74	7.66	50.00	-42.34	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:	802.11g	Frequency(MHz):	2437
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1549	25.52	9.64	35.16	65.73	-30.57	QP
2	0.1549	8.18	9.64	17.82	55.73	-37.91	AVG
3	0.2834	19.21	9.64	28.85	60.72	-31.87	QP
4	0.2834	3.55	9.64	13.19	50.72	-37.53	AVG
5	0.6394	22.16	9.63	31.79	56.00	-24.21	QP
6	0.6394	16.84	9.63	26.47	46.00	-19.53	AVG
7	1.0647	6.72	9.63	16.35	56.00	-39.65	QP
8	1.0647	2.58	9.63	12.21	46.00	-33.79	AVG
9	1.2148	7.03	9.63	16.66	56.00	-39.34	QP
10	1.2148	2.10	9.63	11.73	46.00	-34.27	AVG
11	8.2027	7.18	9.73	16.91	60.00	-43.09	QP
12	8.2027	-0.99	9.73	8.74	50.00	-41.26	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	9.560	2407.440	2417.000	≥ 0.5	PASS
		2437	9.080	2432.440	2441.520	≥ 0.5	PASS
		2462	10.080	2456.920	2467.000	≥ 0.5	PASS
11G	Ant1	2412	13.560	2406.560	2420.120	≥ 0.5	PASS
		2437	12.840	2431.920	2444.760	≥ 0.5	PASS
		2462	16.320	2453.800	2470.120	≥ 0.5	PASS
11N20SISO	Ant1	2412	12.640	2406.920	2419.560	≥ 0.5	PASS
		2437	13.280	2431.560	2444.840	≥ 0.5	PASS
		2462	16.520	2453.600	2470.120	≥ 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	14.381	2404.7867	2419.1677	PASS
		2437	14.777	2429.6915	2444.4685	PASS
		2462	14.683	2454.7154	2469.3984	PASS
11G	Ant1	2412	14.303	2406.0819	2420.3849	PASS
		2437	14.577	2430.9696	2445.5466	PASS
		2462	16.577	2453.6850	2470.2620	PASS
11N20SISO	Ant1	2412	14.719	2406.0529	2420.7719	PASS
		2437	14.880	2430.9978	2445.8778	PASS
		2462	17.468	2453.2331	2470.7011	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	23.95	≤30.00	PASS
		2437	25.72	≤30.00	PASS
		2462	24.94	≤30.00	PASS
11G	Ant1	2412	26.84	≤30.00	PASS
		2437	28.59	≤30.00	PASS
		2462	25.54	≤30.00	PASS
11N20SISO	Ant1	2412	26.28	≤30.00	PASS
		2437	28.53	≤30.00	PASS
		2462	24.87	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	AVG Power Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	21.21	≤30.00	PASS
		2437	23.57	≤30.00	PASS
		2462	23.23	≤30.00	PASS
11G	Ant1	2412	20.55	≤30.00	PASS
		2437	25.41	≤30.00	PASS
		2462	19.01	≤30.00	PASS
11N20SISO	Ant1	2412	20.38	≤30.00	PASS
		2437	25.36	≤30.00	PASS
		2462	16.85	≤30.00	PASS

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

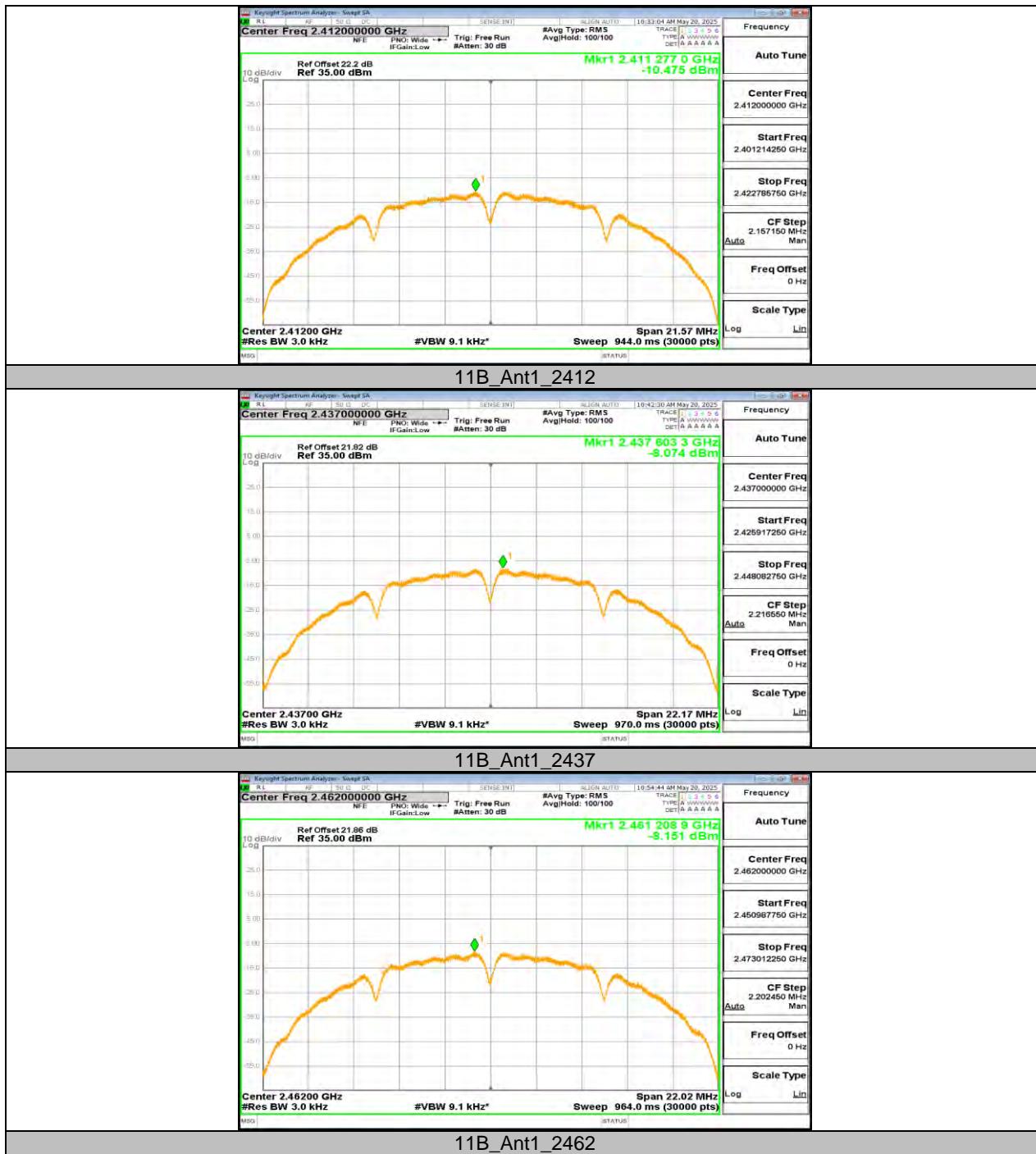
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

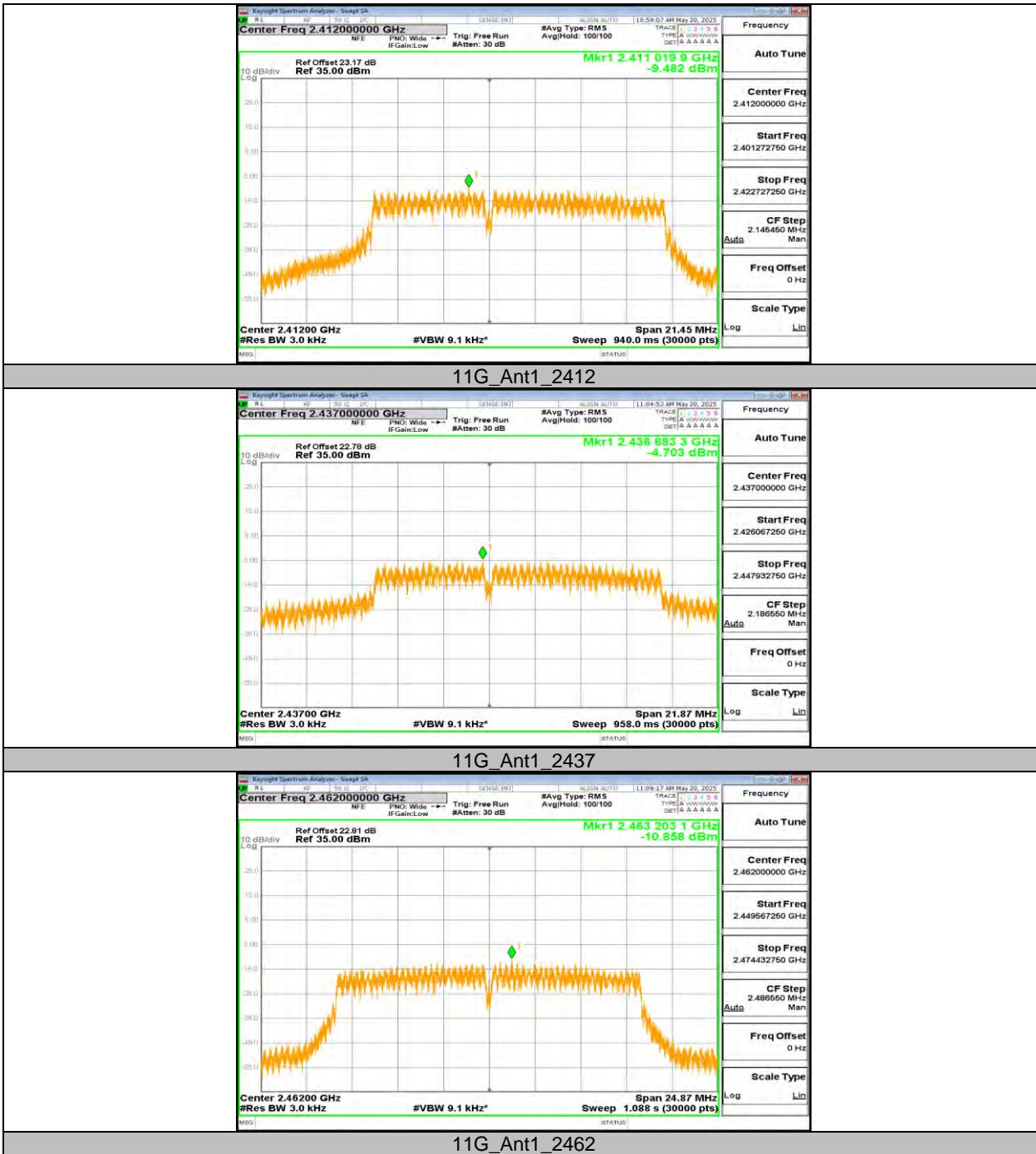
11.4.1. Test Result

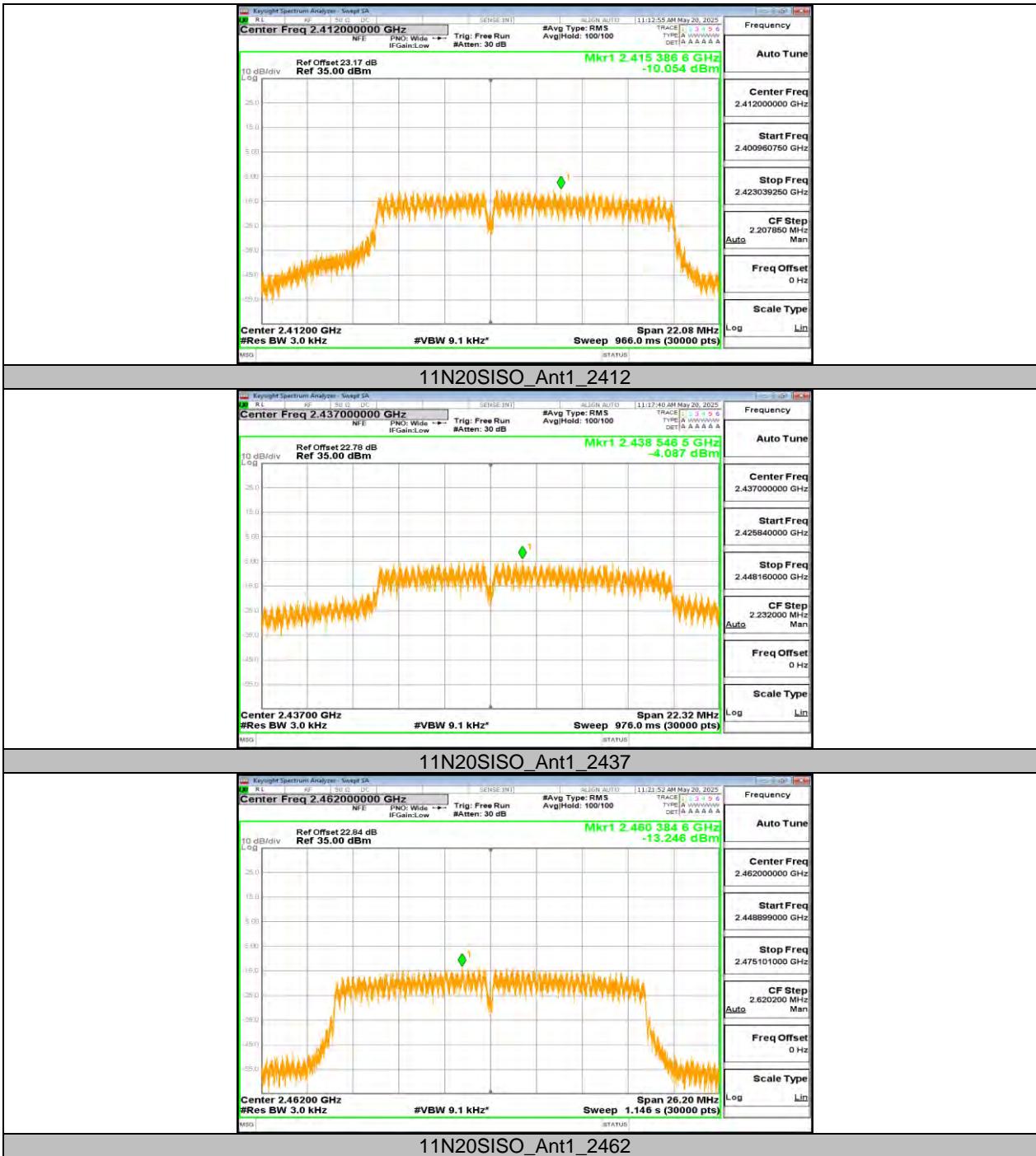
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.48	≤8.00	PASS
		2437	-8.07	≤8.00	PASS
		2462	-8.15	≤8.00	PASS
11G	Ant1	2412	-9.48	≤8.00	PASS
		2437	-4.70	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11N20SISO	Ant1	2412	-10.05	≤8.00	PASS
		2437	-4.09	≤8.00	PASS
		2462	-13.25	≤8.00	PASS

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

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	12.36	-28.05	≤-17.64	PASS
		High	2462	14.42	-36.56	≤-15.58	PASS
11G	Ant1	Low	2412	9.35	-22.06	≤-20.65	PASS
		High	2462	7.65	-37.48	≤-22.35	PASS
11N20SISO	Ant1	Low	2412	9.43	-25.74	≤-20.57	PASS
		High	2462	6.90	-38.69	≤-23.1	PASS

11.5.2. Test Graphs



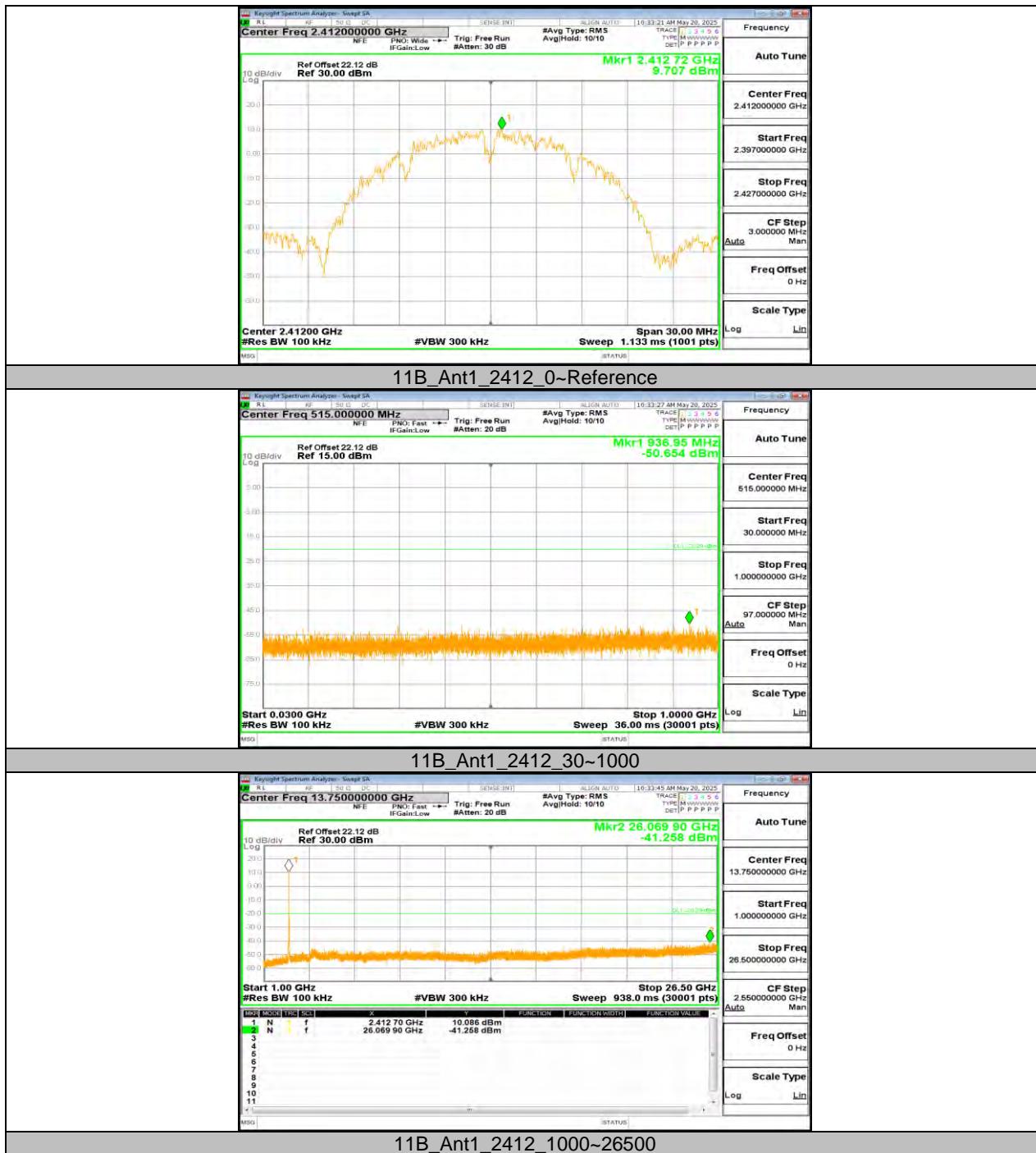


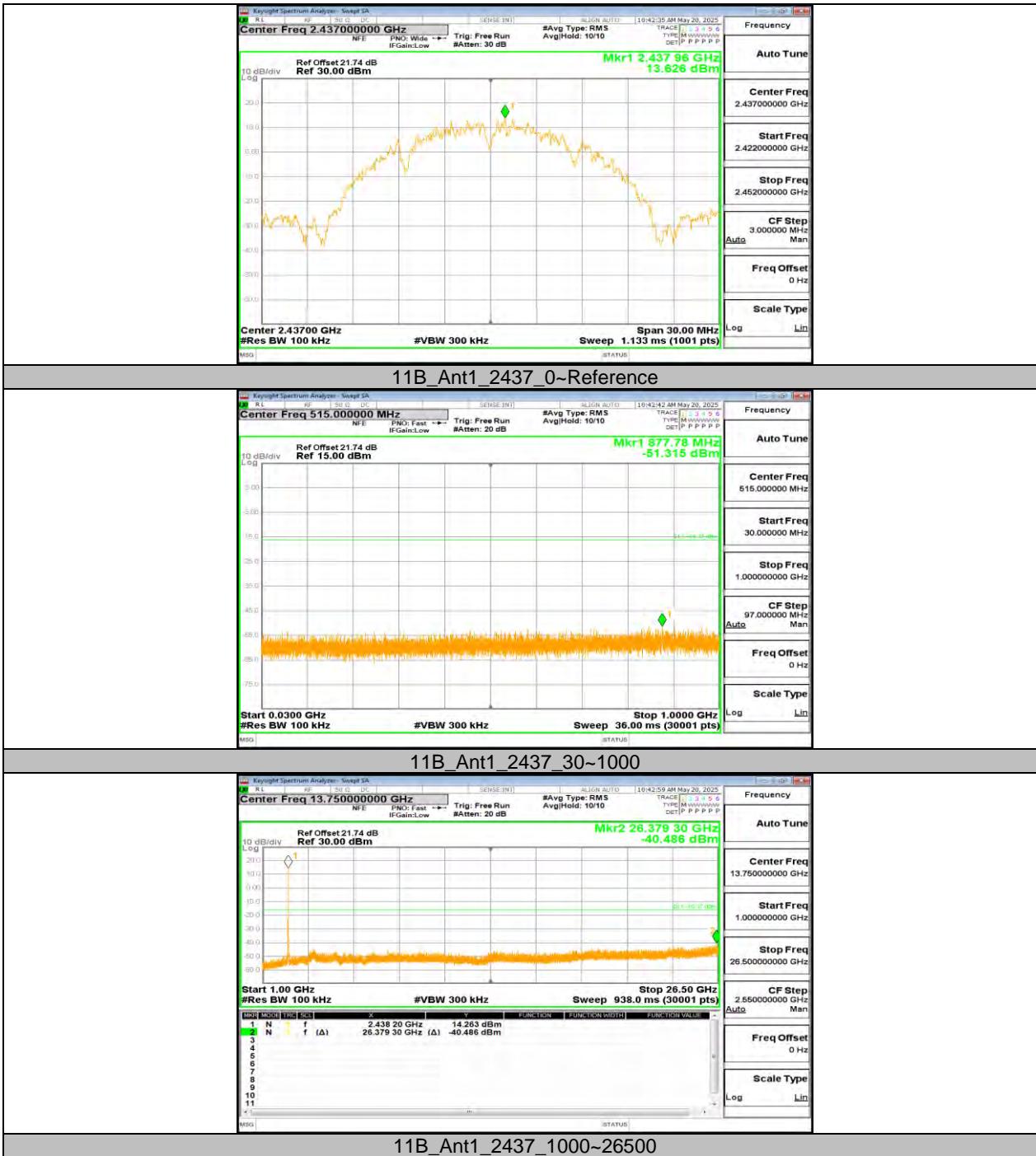
11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

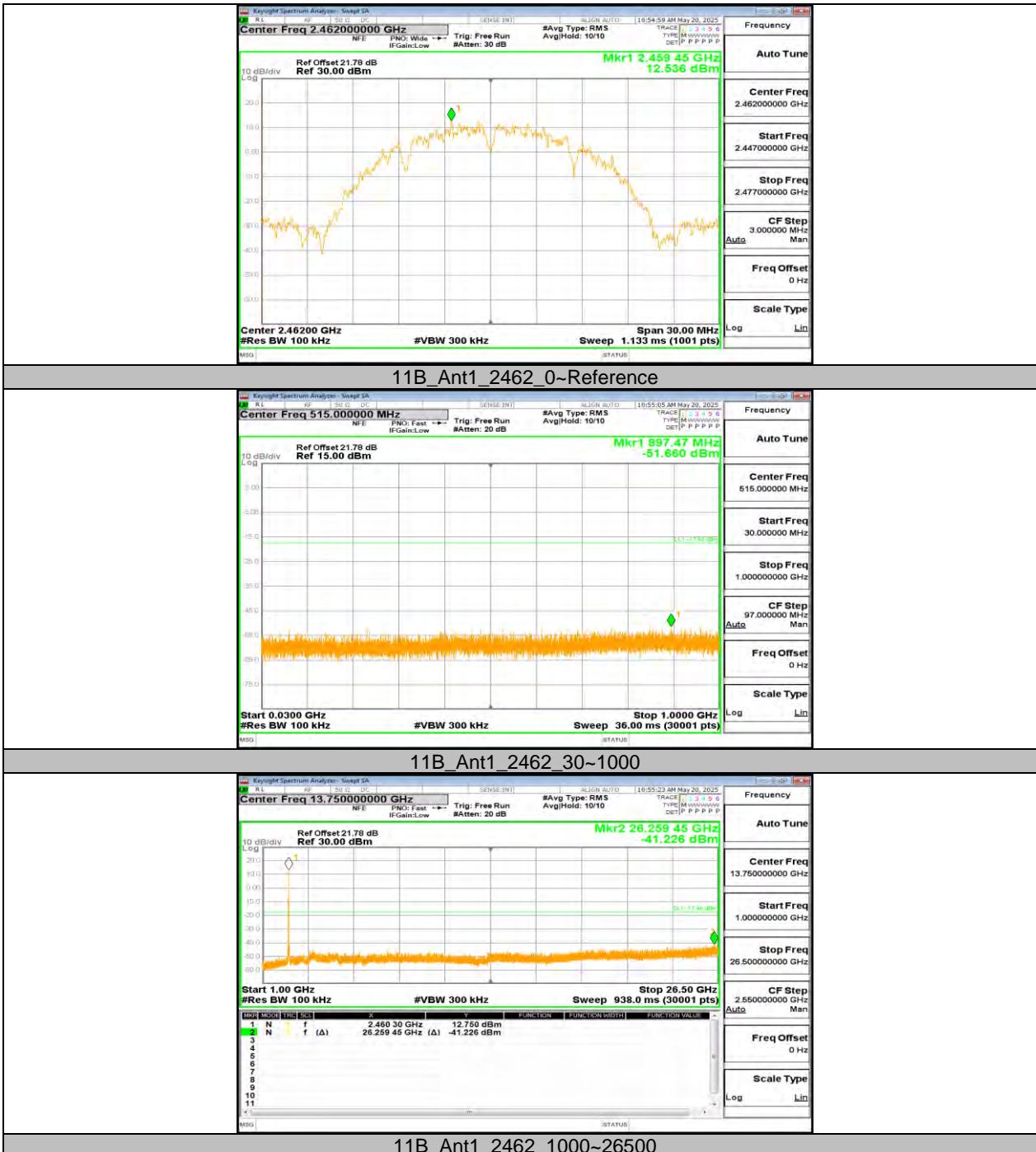
11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.71	---	PASS
			30~1000	-50.65	≤-20.29	PASS
			1000~26500	-41.26	≤-20.29	PASS
		2437	Reference	13.63	---	PASS
			30~1000	-51.32	≤-16.37	PASS
			1000~26500	-40.49	≤-16.37	PASS
		2462	Reference	12.54	---	PASS
			30~1000	-51.66	≤-17.46	PASS
			1000~26500	-41.23	≤-17.46	PASS
11G	Ant1	2412	Reference	8.26	---	PASS
			30~1000	-50.99	≤-21.74	PASS
			1000~26500	-41.53	≤-21.74	PASS
		2437	Reference	13.64	---	PASS
			30~1000	-51.9	≤-16.36	PASS
			1000~26500	-41.58	≤-16.36	PASS
		2462	Reference	5.53	---	PASS
			30~1000	-50.78	≤-24.47	PASS
			1000~26500	-41.18	≤-24.47	PASS
11N20SISO	Ant1	2412	Reference	7.87	---	PASS
			30~1000	-50.92	≤-22.13	PASS
			1000~26500	-42.14	≤-22.13	PASS
		2437	Reference	12.01	---	PASS
			30~1000	-51.49	≤-17.99	PASS
			1000~26500	-42.05	≤-17.99	PASS
		2462	Reference	2.95	---	PASS
			30~1000	-50.71	≤-27.05	PASS
			1000~26500	-40.98	≤-27.05	PASS

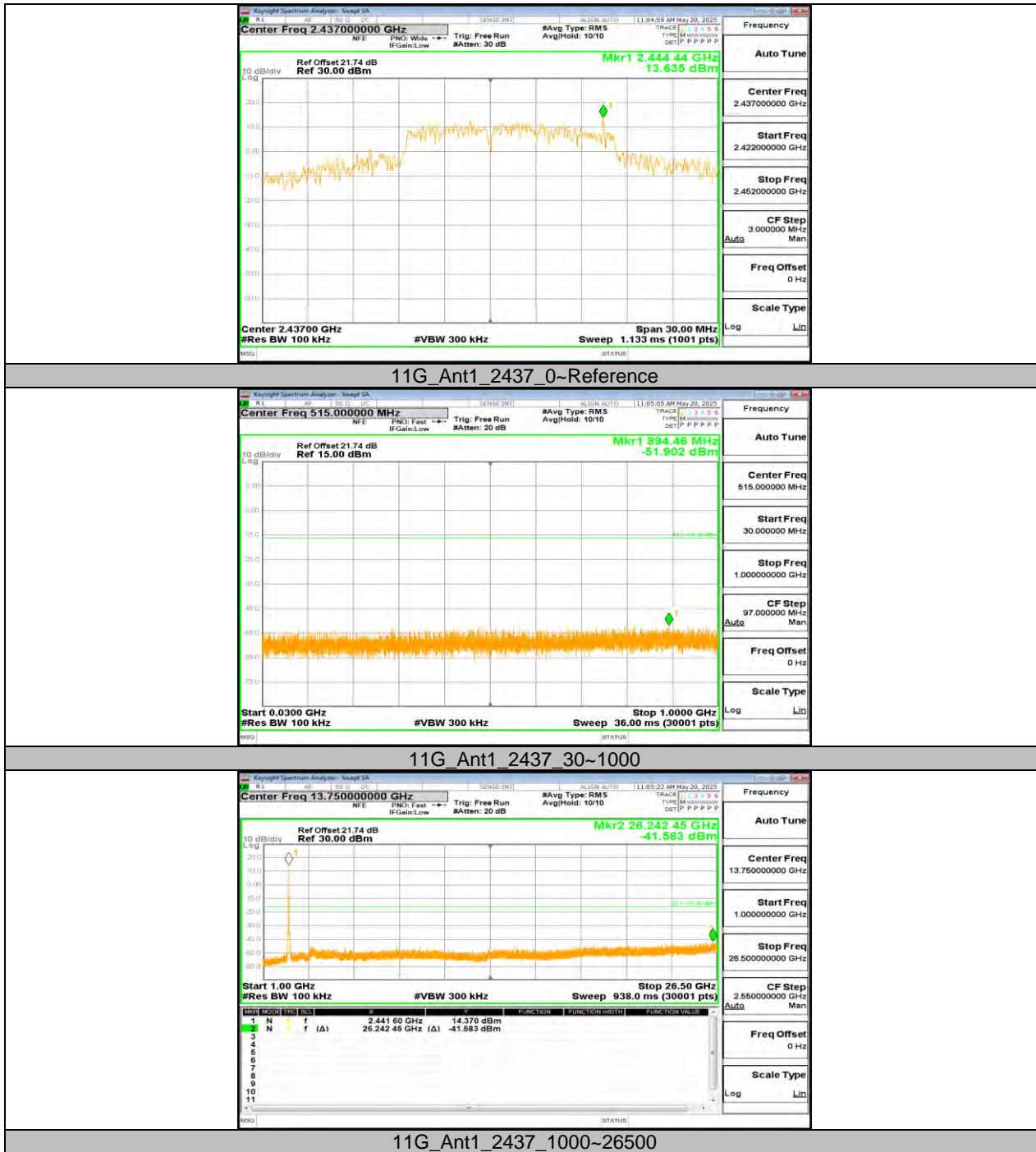
11.6.2. Test Graphs

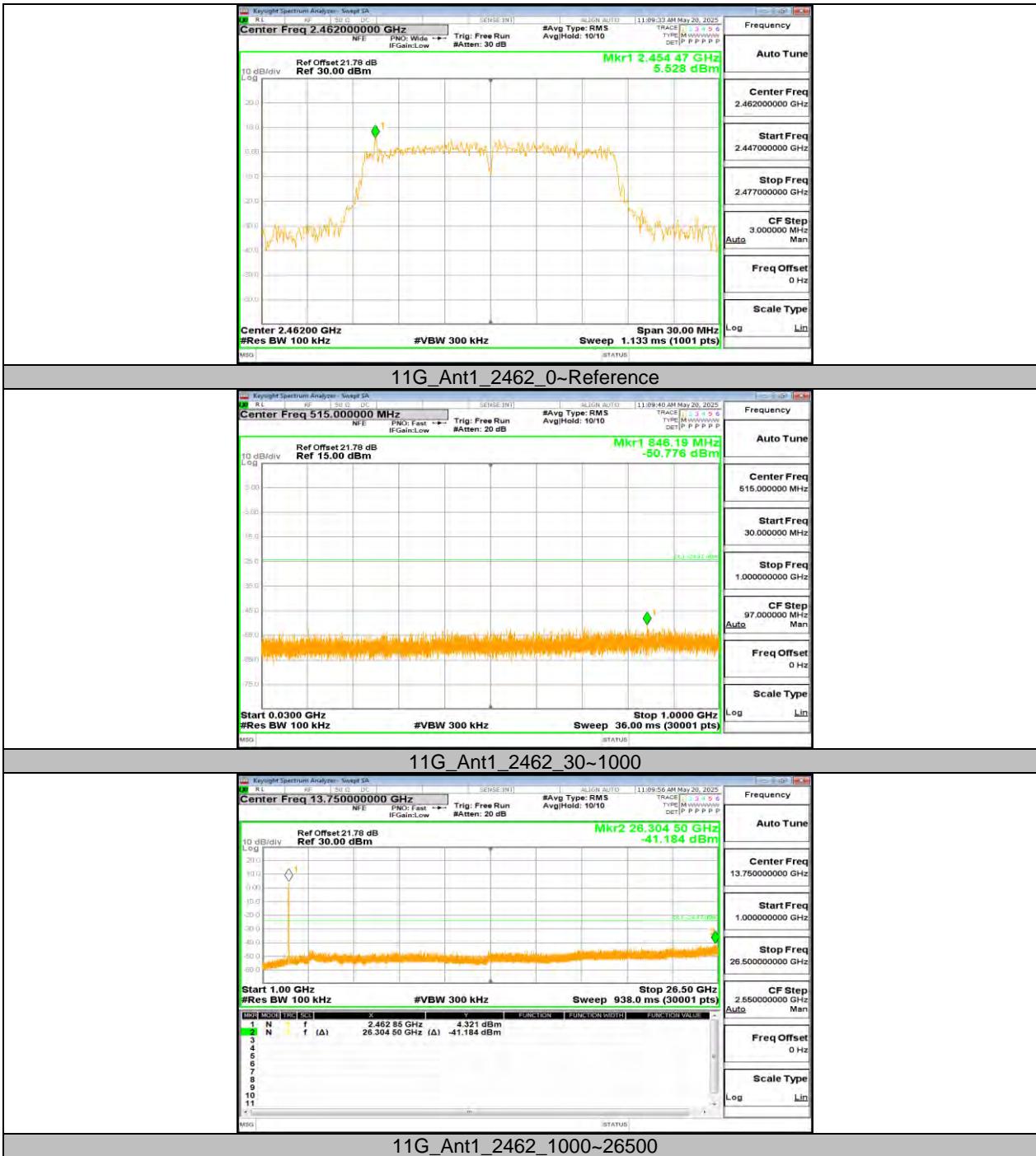


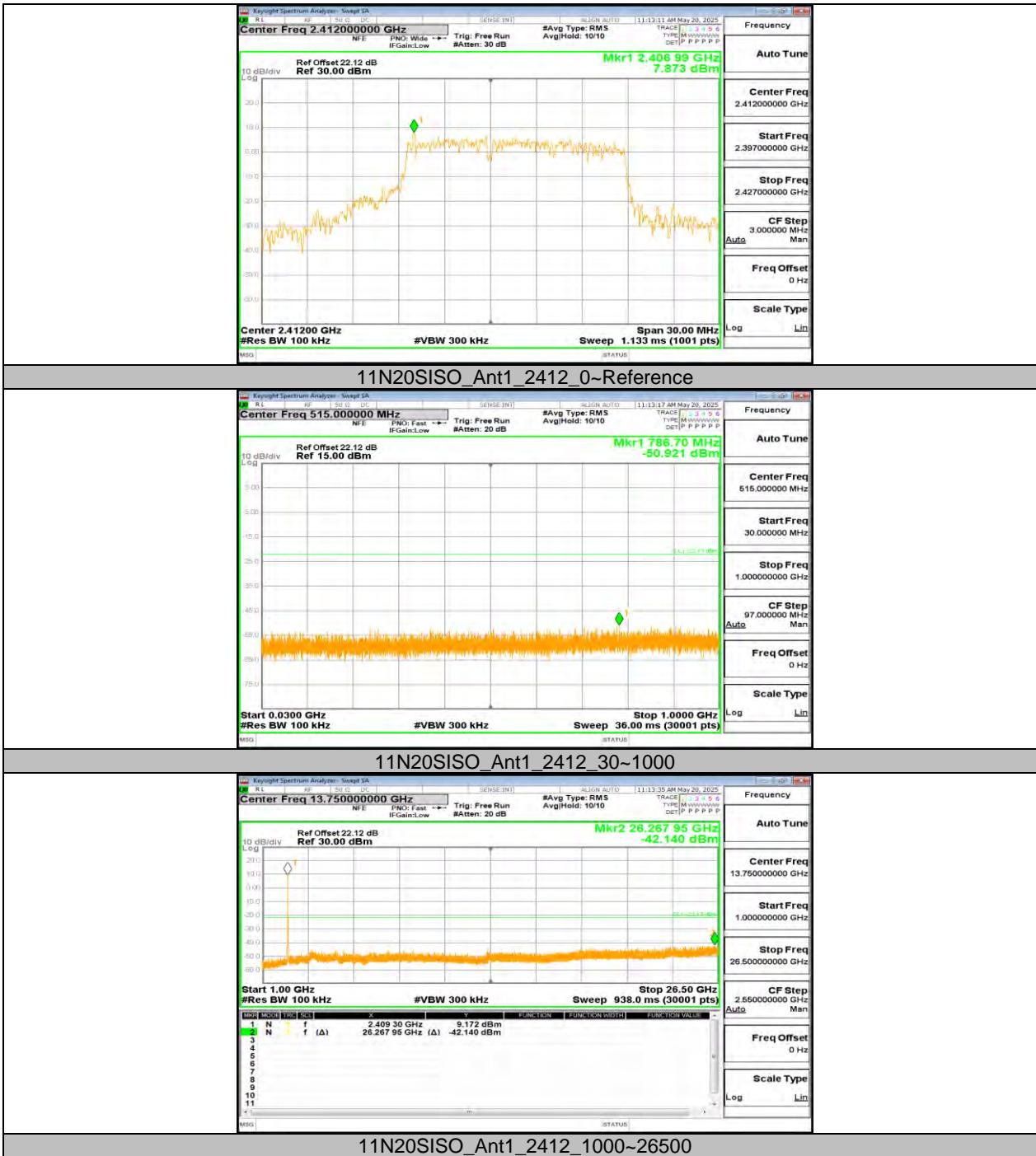




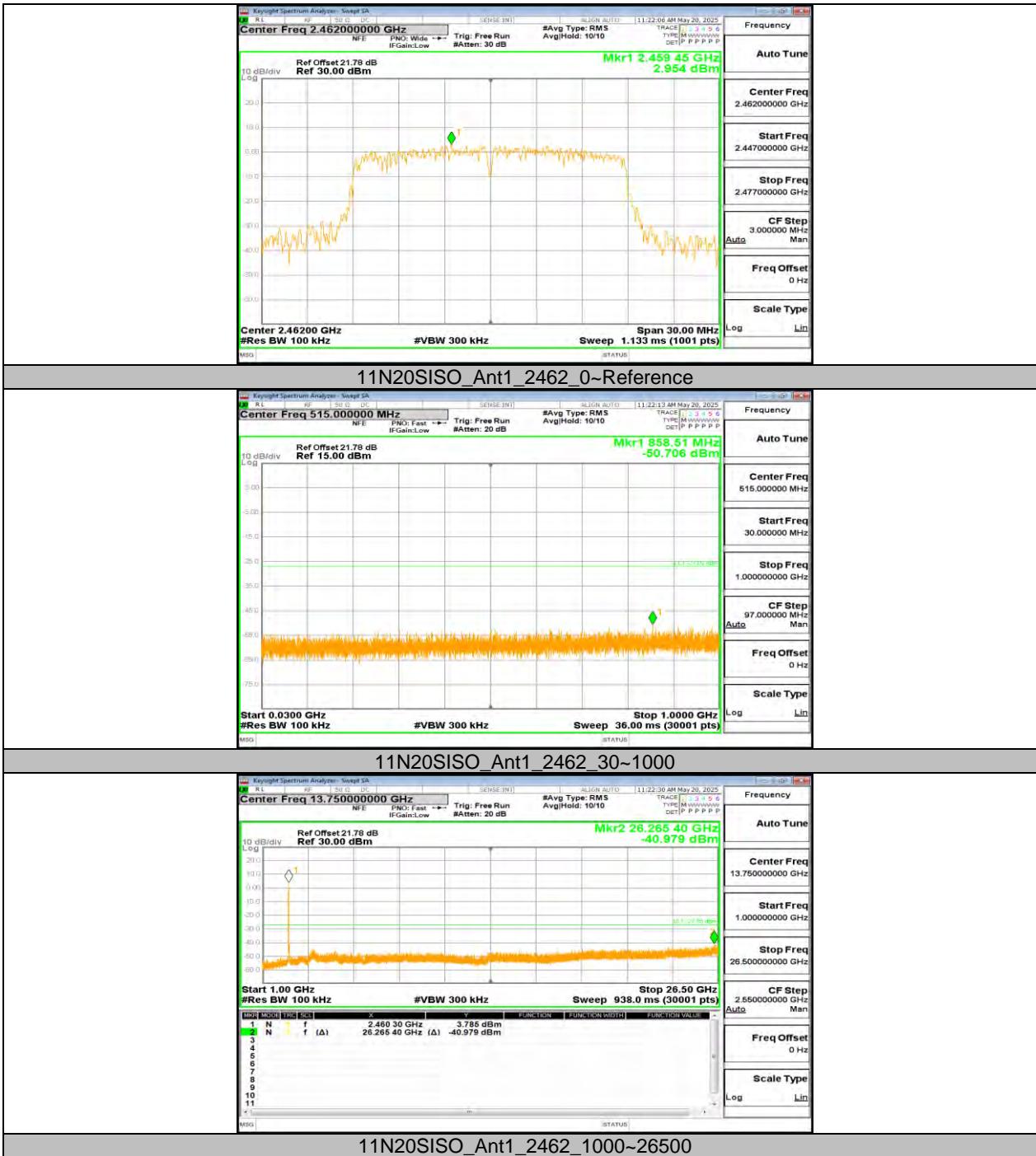












11.7. APPENDIX G: DUTY CYCLE

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	8.34	8.48	0.9835	98.35	0.07	0.12	0.1
11G	1.37	1.41	0.9716	97.16	0.12	0.73	1
11N20SISO	1.29	1.33	0.9699	96.99	0.13	0.78	1

Note:

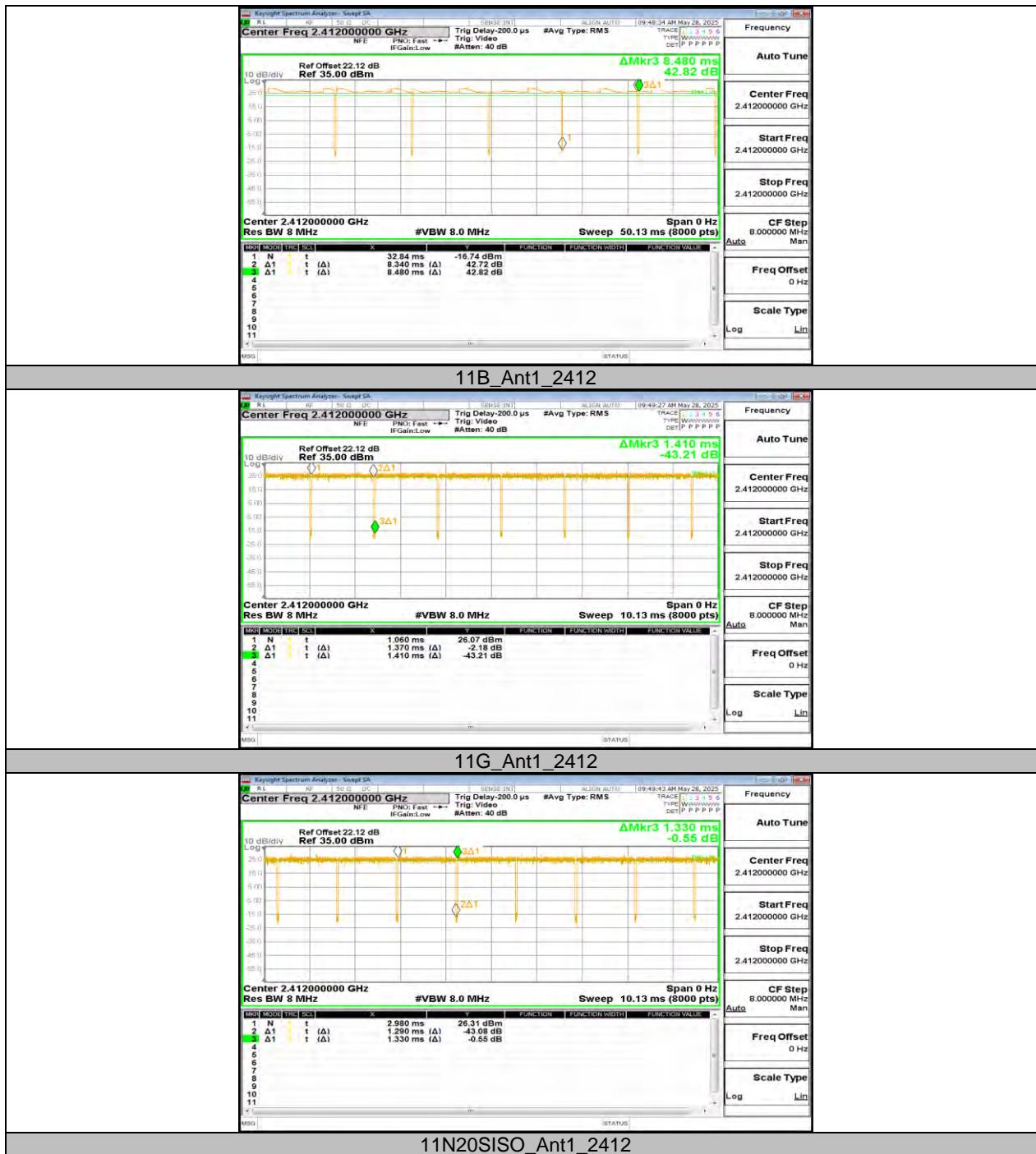
Duty Cycle Correction Factor=10log (1/x).

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