

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

OREiN Bath Fan OL05S

MODEL NUMBER: OA08004112

REPORT NUMBER: 4791563717-1-RF-3

ISSUE DATE: January 11, 2025

FCC ID: 2AZR9-OA08004112

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	January 11, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Syvio Technology CO., LIMITED
Address: Room A, 8/F, Kwok Cheung Building, 635-637 Shanghai Street, Mong Kok, Hong Kong

Manufacturer Information

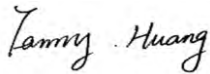
Company Name: Syvio Technology CO., LIMITED
Address: Room A, 8/F, Kwok Cheung Building, 635-637 Shanghai Street, Mong Kok, Hong Kong

EUT Information

EUT Name: OREiN Bath Fan OL05S
Model: OA08004112
Brand: OREIN
Sample Received Date: November 18, 2024
Sample Status: Normal
Sample ID: 7847198
Date of Tested: November 18, 2024 to January 11, 2025

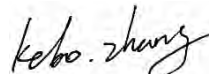
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C , KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2 and 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> <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)
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	OREiN Bath Fan OL05S
Model	OA08004112

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/n HT40
Normal Test Voltage:	AC 120 V, 60 Hz

5.2. CHANNEL LIST

Channel List For 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]	12.73
g	2412 ~ 2462	1-11[11]	16.88
n HT20	2412 ~ 2462	1-11[11]	16.59
n HT40	2422 ~ 2452	3-9[7]	12.86

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

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		EspRFTTestTool_v2.7_Manual					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	24	26	24	/		
802.11g	1	4	2	10			
802.11n HT20	1	0	0	5			
802.11n HT40	1	/			14	14	14

WORST-CASE CONFIGURATIONS

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

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

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

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	IFA PCB antenna	6.05

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.
IEEE 802.11n HT40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note:

1.BT&WLAN 2.4G can transmit simultaneously. (declared by client)

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E42-80	/
2	UART	/	/	/

I/O CABLES

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

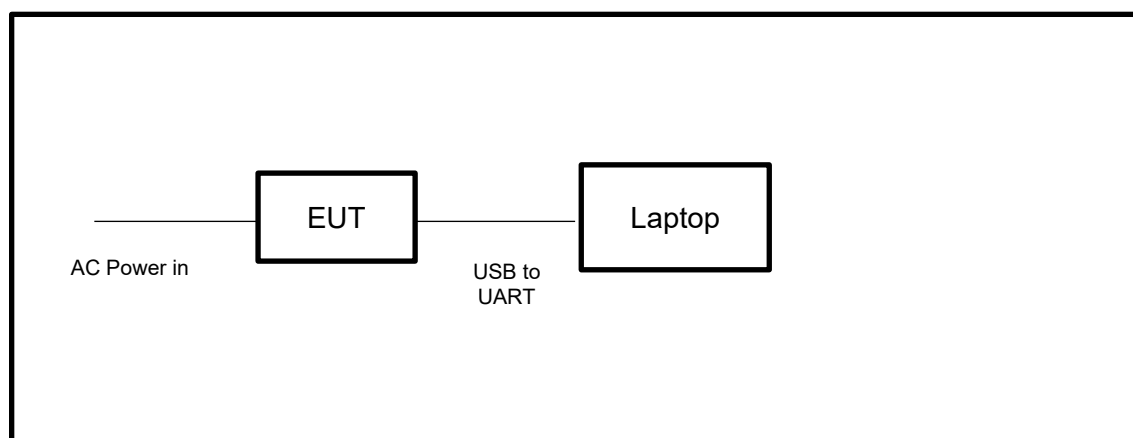
ACCESSORIES

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

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	Mar.25,2024	Mar.24,2025
Vector Signal Generator	R&S	SMBV100A	261637	Sep.28, 2024	Sep.27, 2025
Signal Generator	R&S	SMB100A	178553	Sep.28, 2024	Sep.27, 2025
Signal Analyzer	R&S	FSV40	101118	Sep.28, 2024	Sep.27, 2025
Software					
Description	Manufacturer		Name	Version	
For R&S TS 8997 Test System	Rohde & Schwarz		EMC 32	10.60.10	
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.13, 2024	Sep.12, 2025
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.28, 2024	Sep.27, 2025
DC power supply	Keysight	E3642A	MY55159130	Sep.28, 2024	Sep.27, 2025
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.28, 2024	Sep.27, 2025
Attenuator	Aglient	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025
RF Control Unit	Tonscend	JS0806-2	23B80620666	Mar.25,2024	Mar.24,2025
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.	Upper Last Cal.	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.14, 2021	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
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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

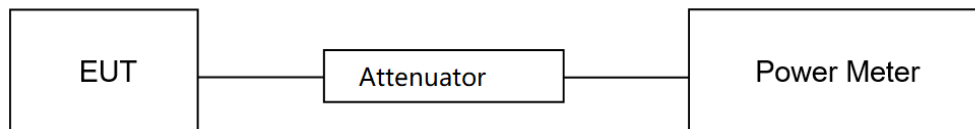
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	21.7°C	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	December 4, 2024	Test By	Vern Shen
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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 ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

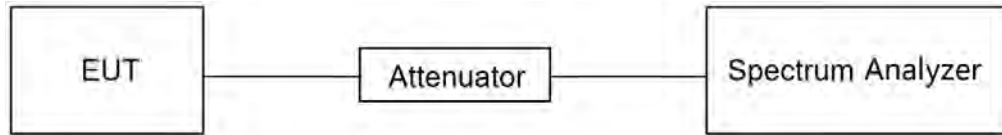
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

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

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP**TEST ENVIRONMENT**

Temperature	21.7°C	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	December 4, 2024	Test By	Vern Shen
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TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.5.

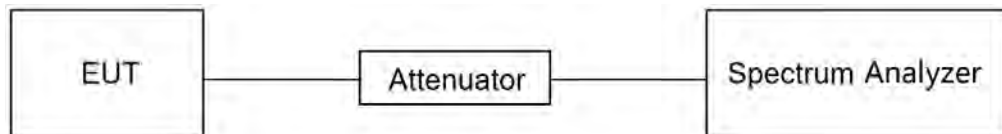
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{OBW bandwidth}$
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	21.7°C	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	December 4, 2024	Test By	Vern Shen
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

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

TEST PROCEDURE

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

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

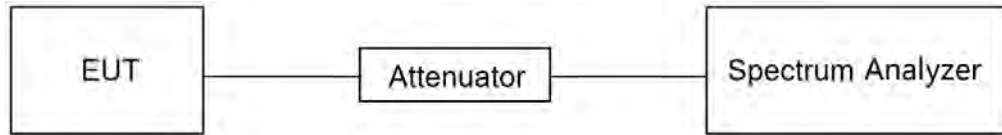
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

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

TEST SETUP**TEST ENVIRONMENT**

Temperature	21.7°C	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	December 4, 2024	Test By	Vern Shen
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TEST RESULTS

Please refer to section "Test Data" - Appendix F

7.5. DUTY CYCLE

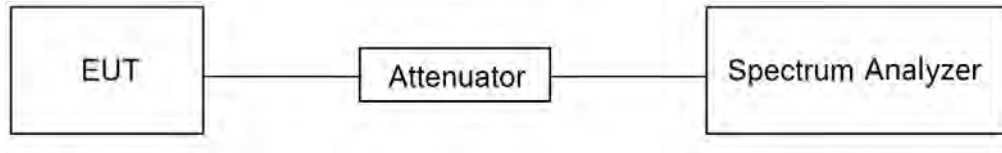
LIMITS

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	21.7°C	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	December 4, 2024	Test By	Vern Shen
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

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

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

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

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

FCC Restricted bands of operation refer to FCC §15.205 (a):

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

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

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

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

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

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

Note 1: The manufacturer has recommended that the EUT only be used in the desktop (horizontal) orientation; therefore, all radiated testing was performed in desktop orientation.

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:

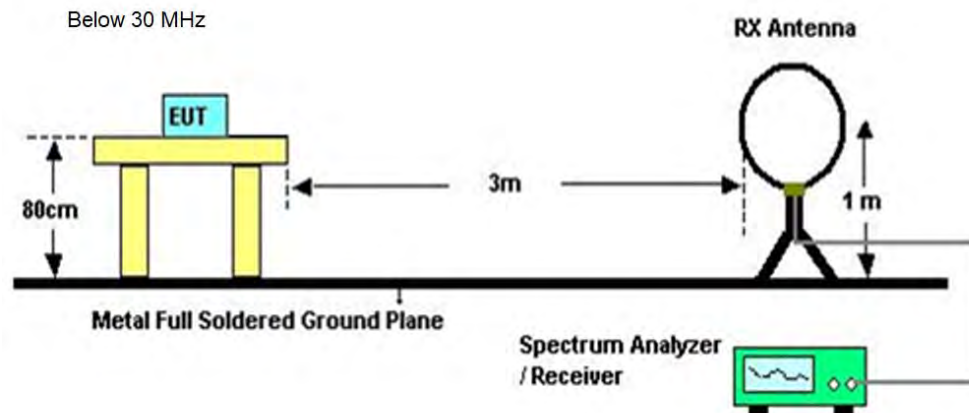
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration,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

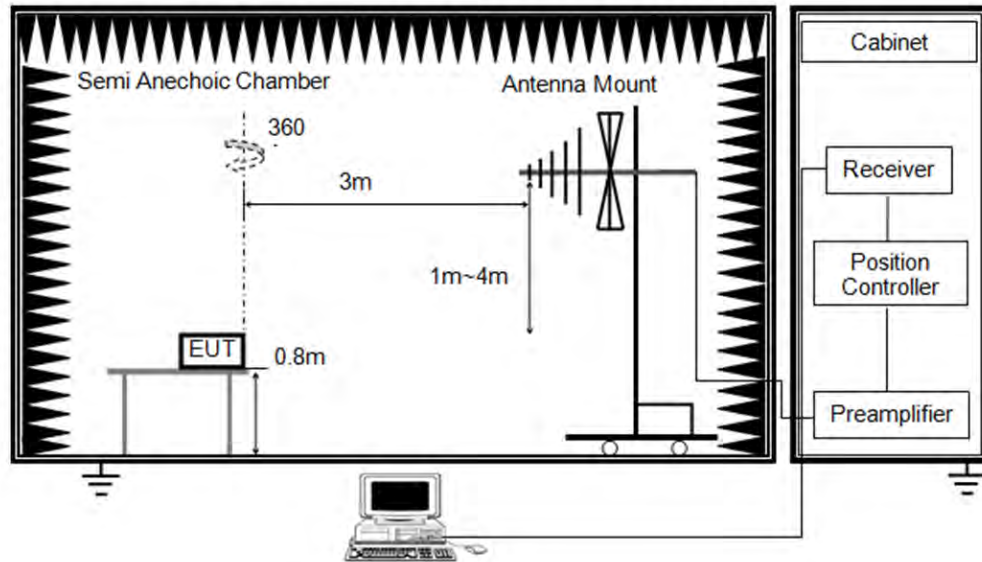
Note:

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.

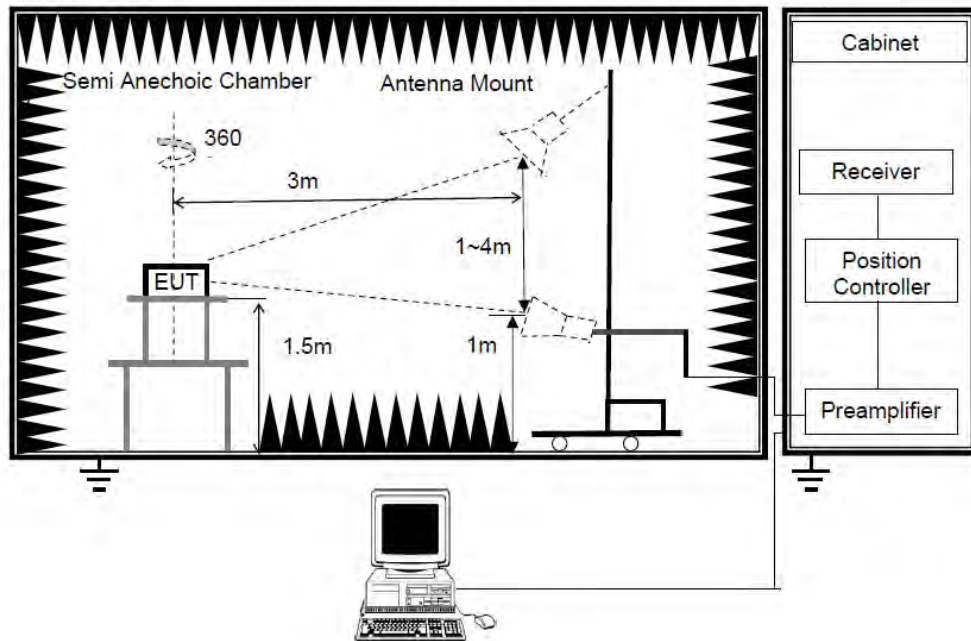
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.6°C	Relative Humidity	59.1%
Atmosphere Pressure	101kPa	Test Voltage	

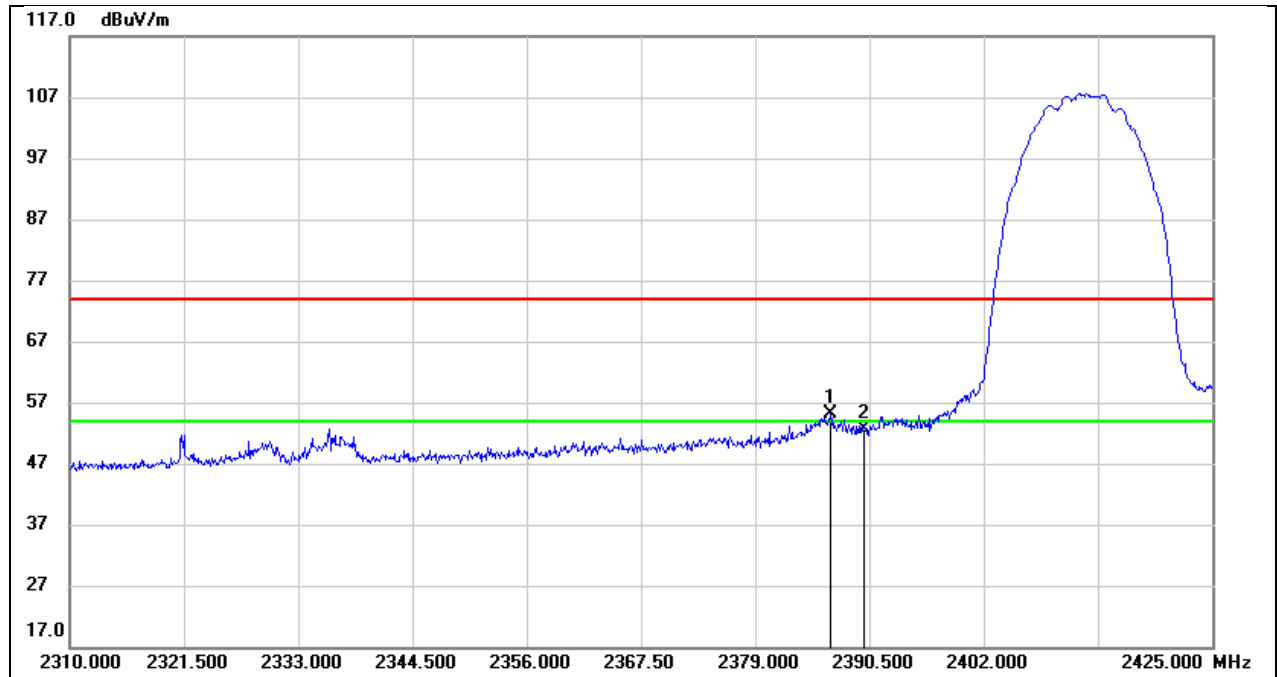
TEST DATE / ENGINEER

Test Date	January 8, 2025	Test By	Mason Wang
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TEST RESULTS

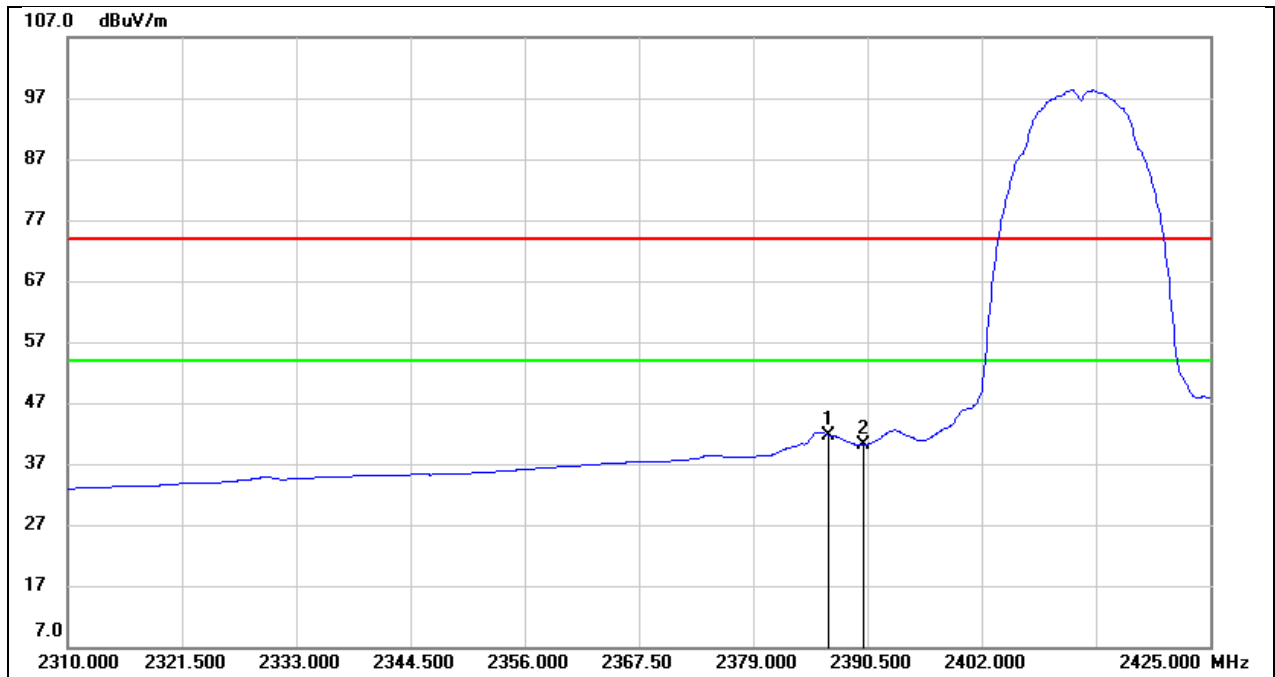
8.1. RESTRICTED BANDEDGE

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



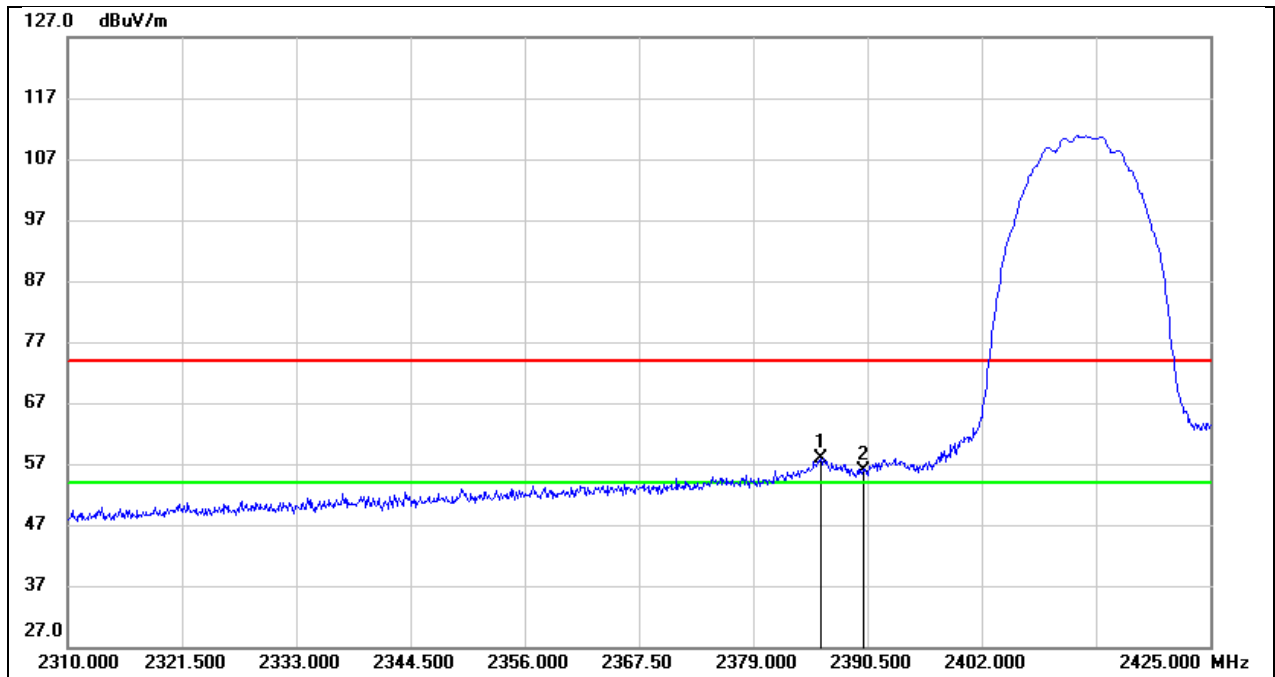
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.590	23.39	31.72	55.11	74.00	-18.89	peak
2	2390.000	20.92	31.73	52.65	74.00	-21.35	peak

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



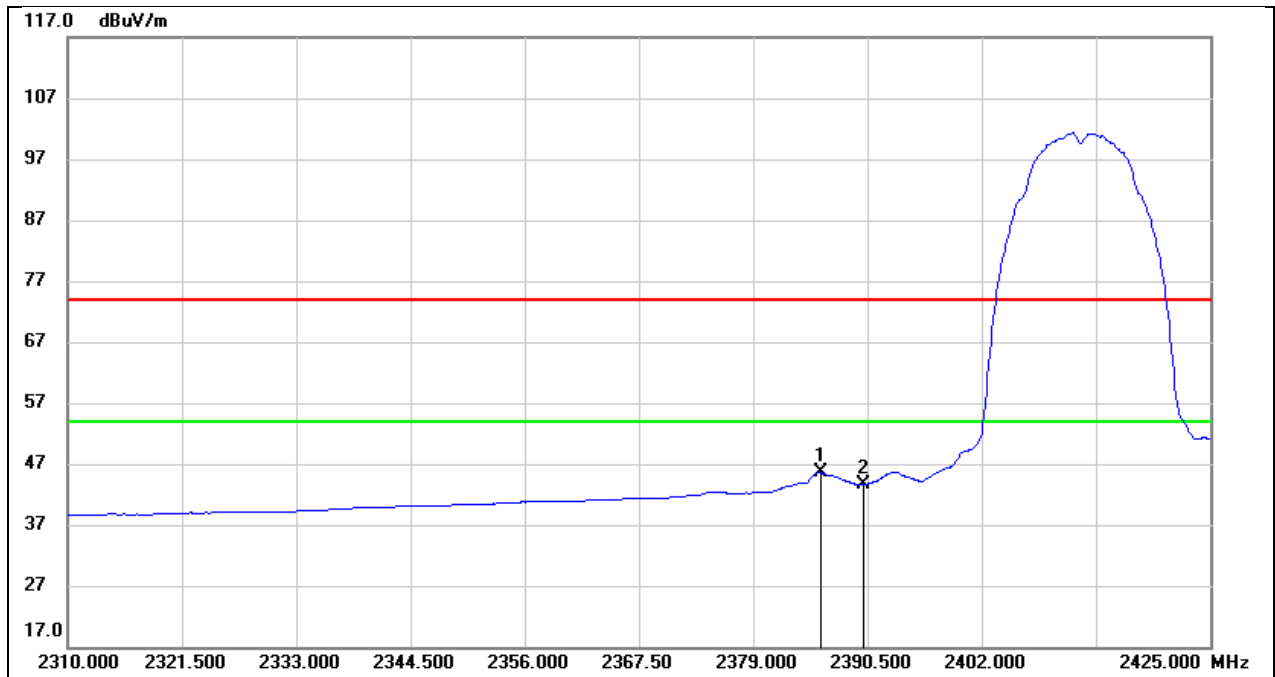
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.590	9.98	31.72	41.70	54.00	-12.30	AVG
2	2390.000	8.32	31.73	40.05	54.00	-13.95	AVG

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



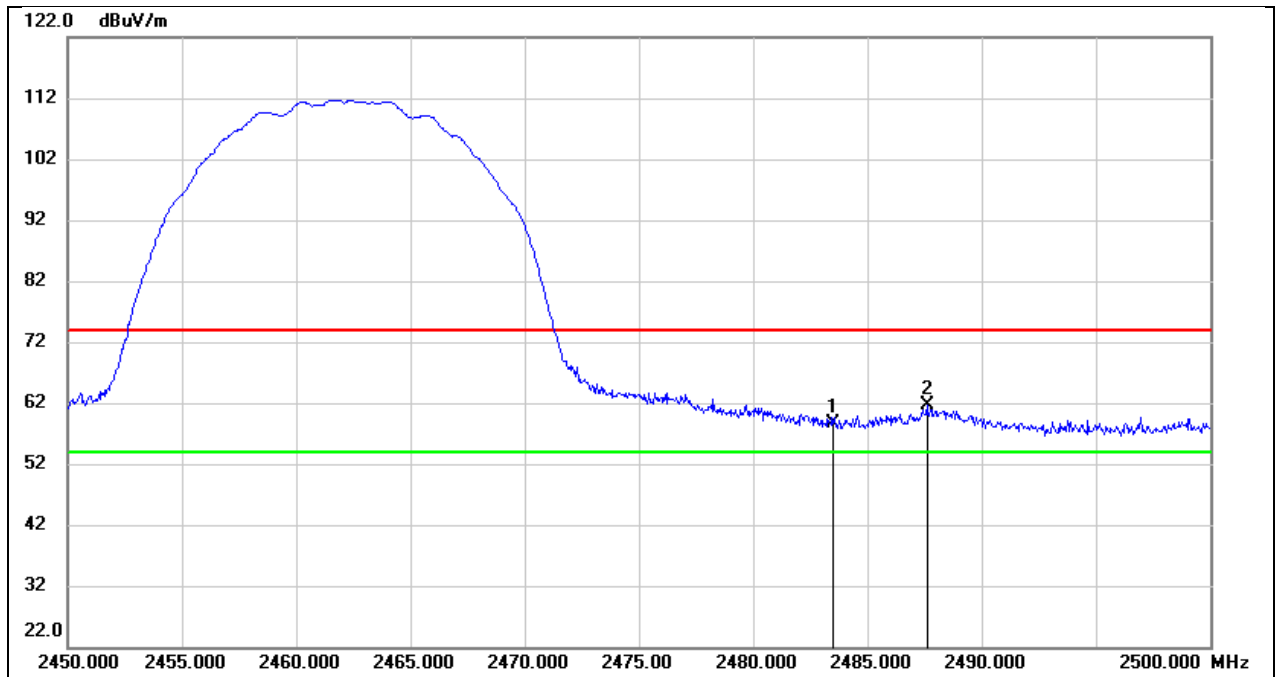
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.785	25.37	32.53	57.90	74.00	-16.10	peak
2	2390.000	23.33	32.55	55.88	74.00	-18.12	peak

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



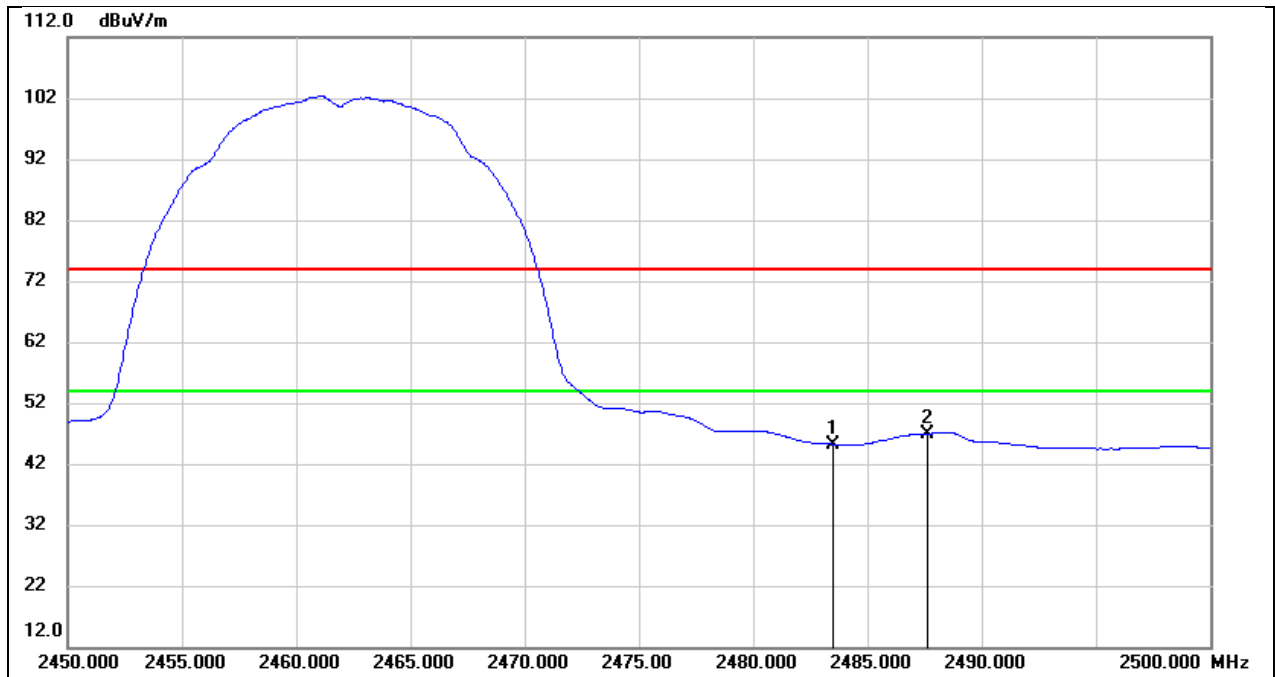
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.785	12.98	32.53	45.51	54.00	-8.49	AVG
2	2390.000	11.02	32.55	43.57	54.00	-10.43	AVG

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



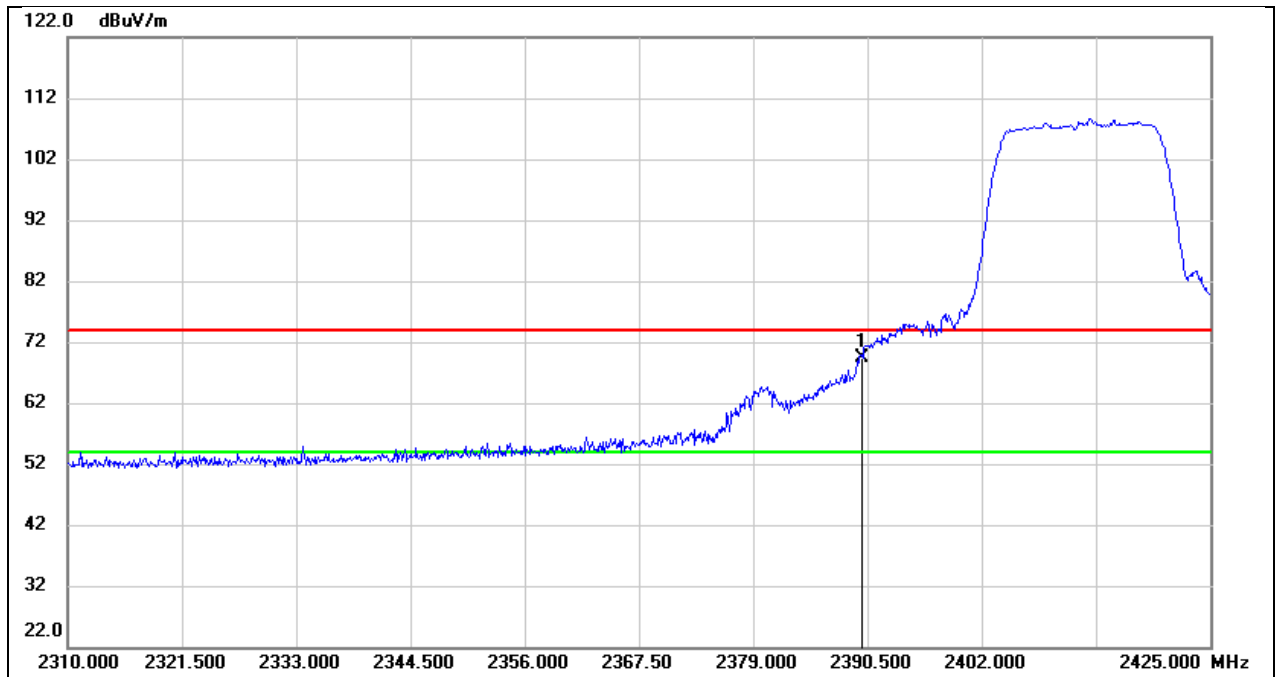
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	25.82	32.80	58.62	74.00	-15.38	peak
2	2487.600	28.83	32.81	61.64	74.00	-12.36	peak

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



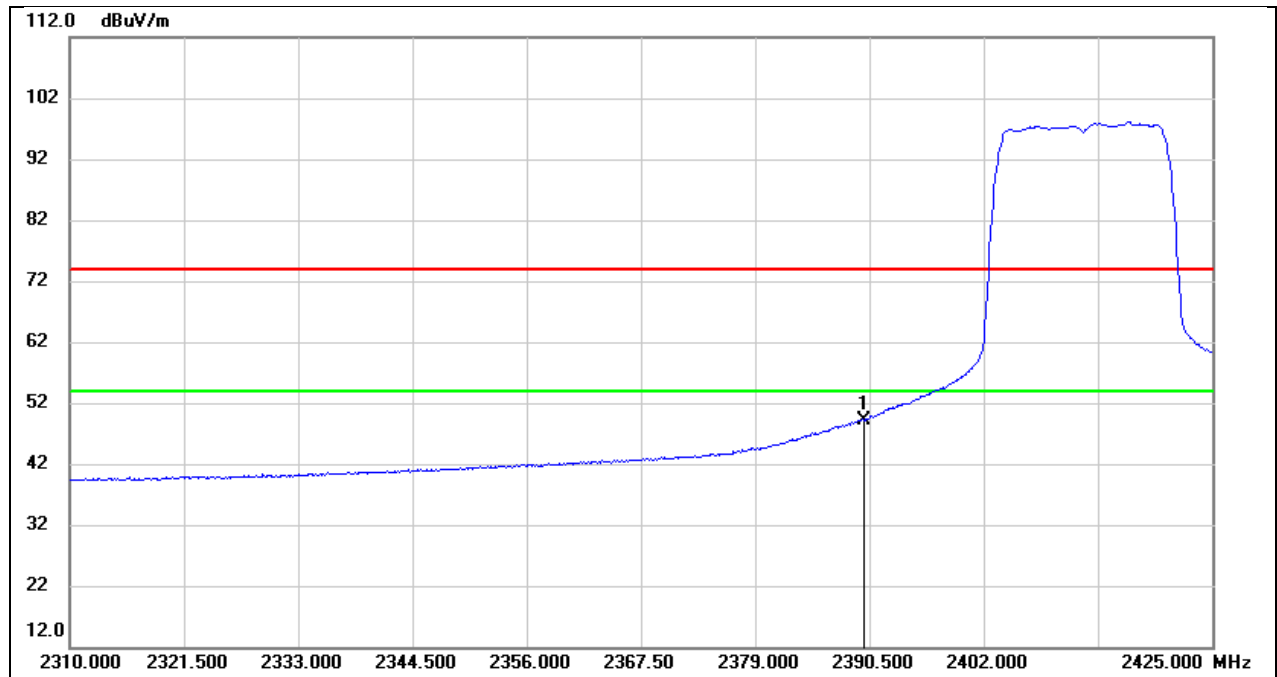
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.40	32.80	45.20	54.00	-8.80	AVG
2	2487.600	14.06	32.81	46.87	54.00	-7.13	AVG

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



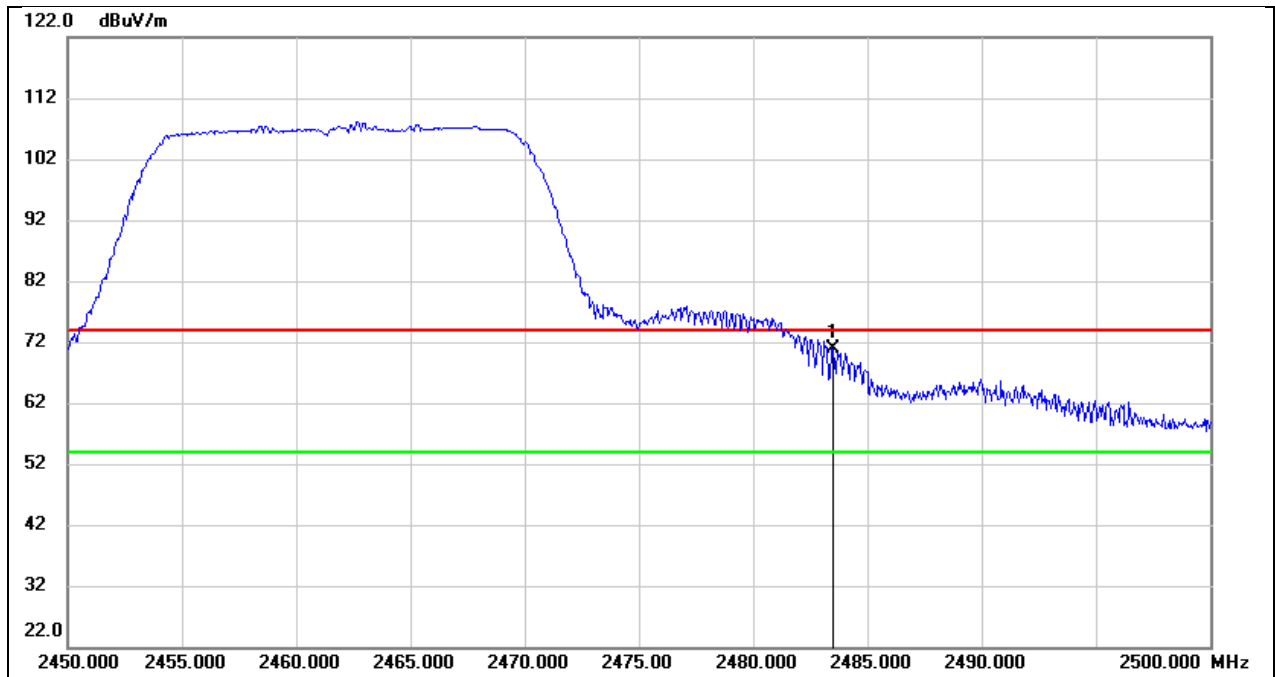
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.93	32.55	69.48	74.00	-4.52	peak

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



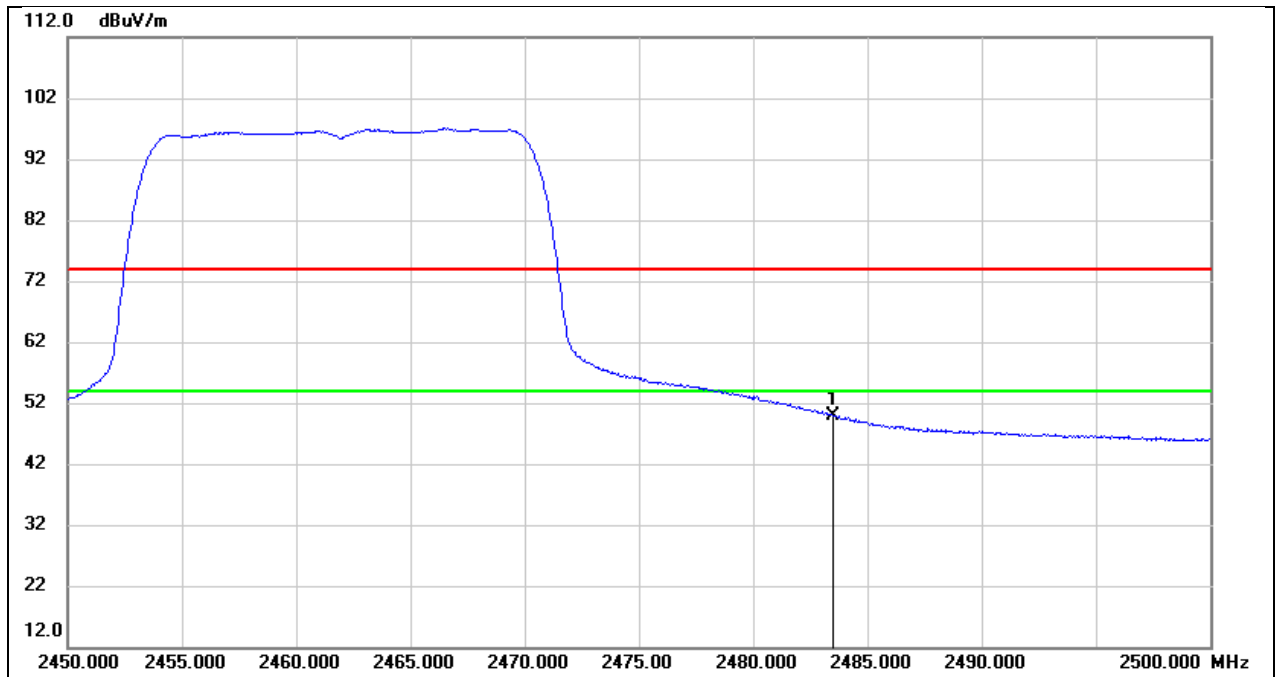
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	16.65	32.55	49.20	54.00	-4.80	AVG

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



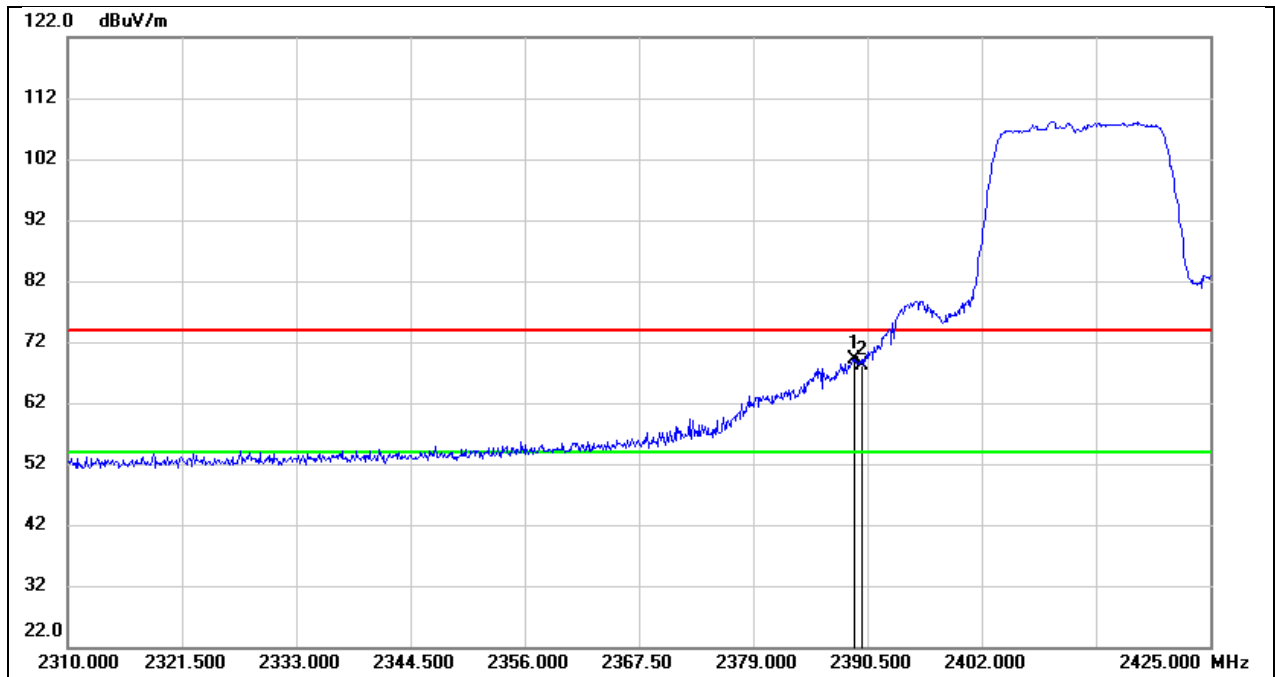
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.14	32.80	70.94	74.00	-3.06	peak

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



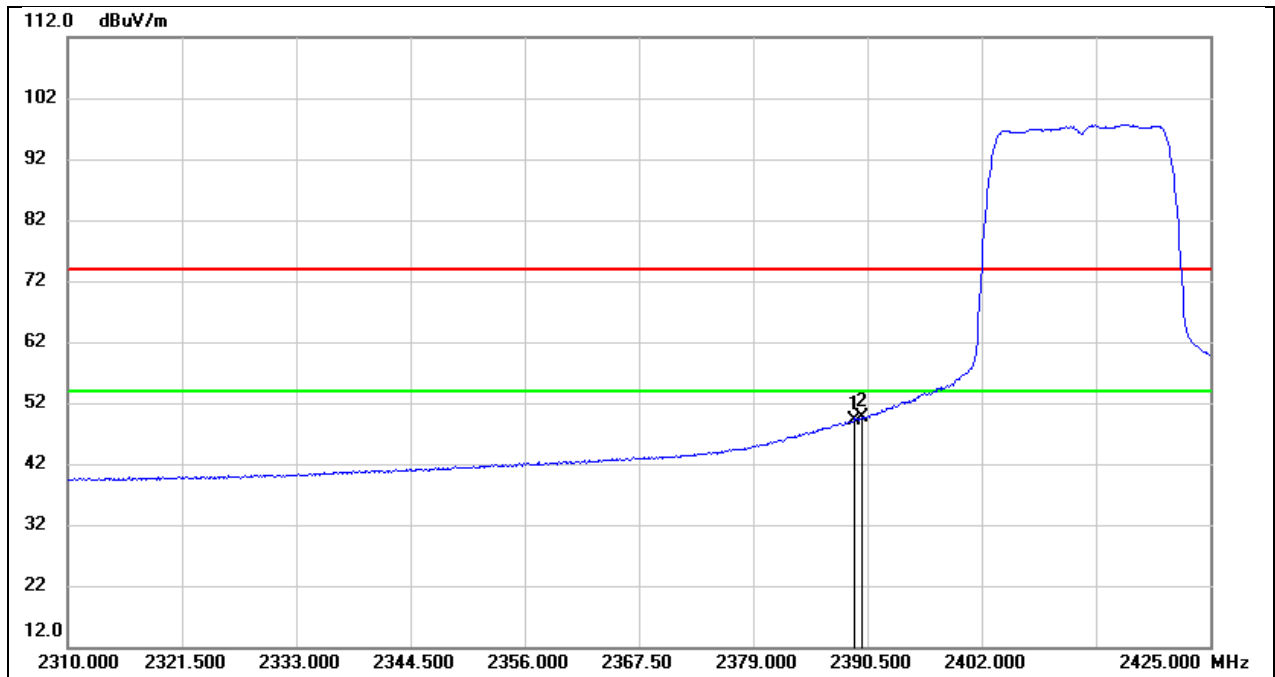
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.20	32.80	50.00	54.00	-4.00	AVG

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



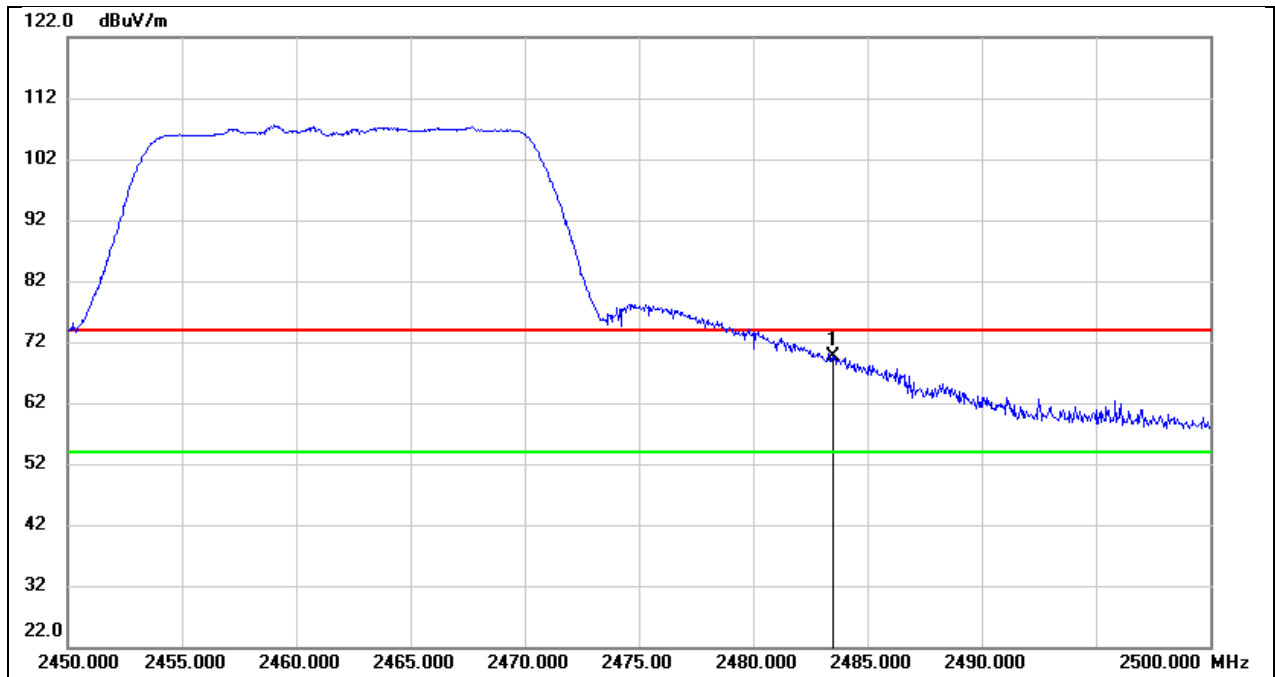
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.120	36.65	32.55	69.20	74.00	-4.80	peak
2	2390.000	35.59	32.55	68.14	74.00	-5.86	peak

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



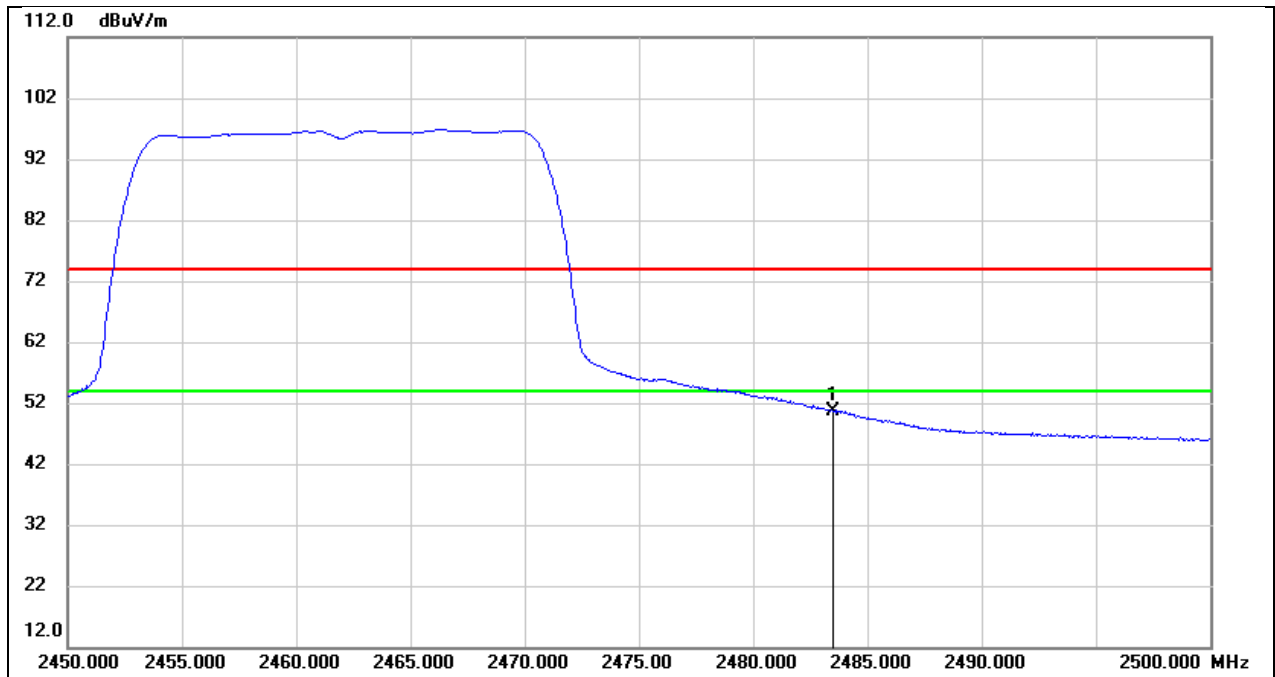
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.120	16.59	32.55	49.14	54.00	-4.86	AVG
2	2390.000	16.99	32.55	49.54	54.00	-4.46	AVG

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



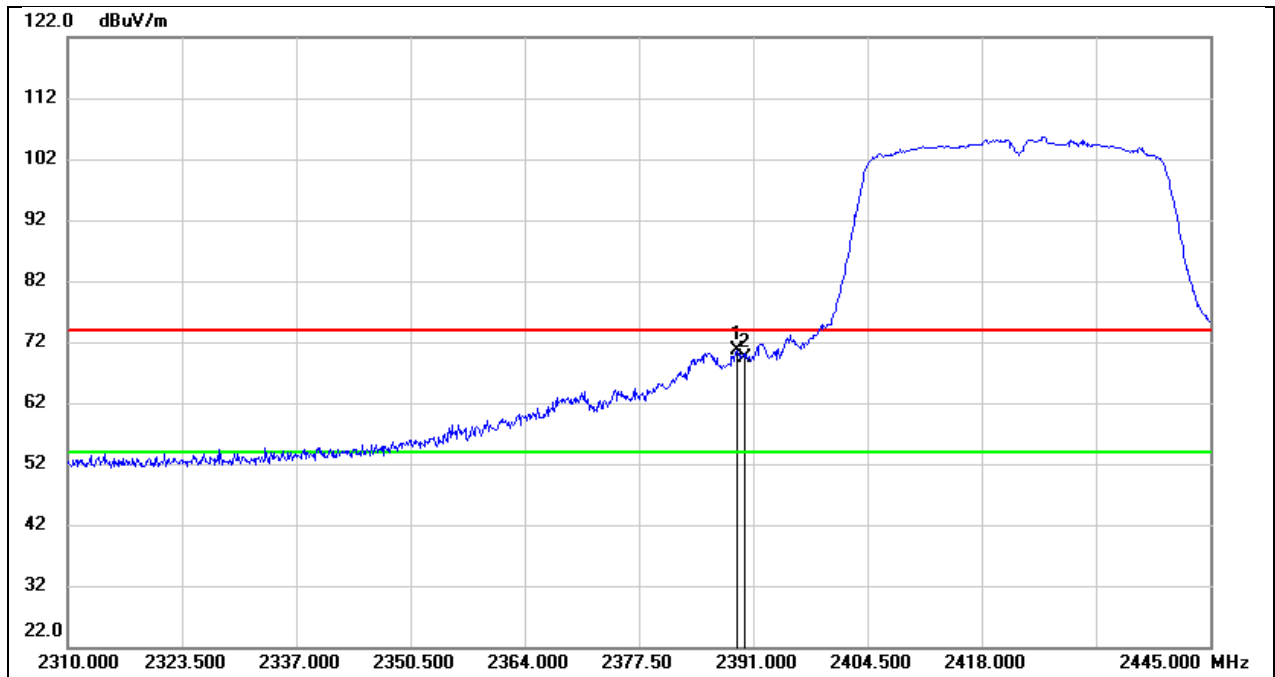
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.84	32.80	69.64	74.00	-4.36	peak

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



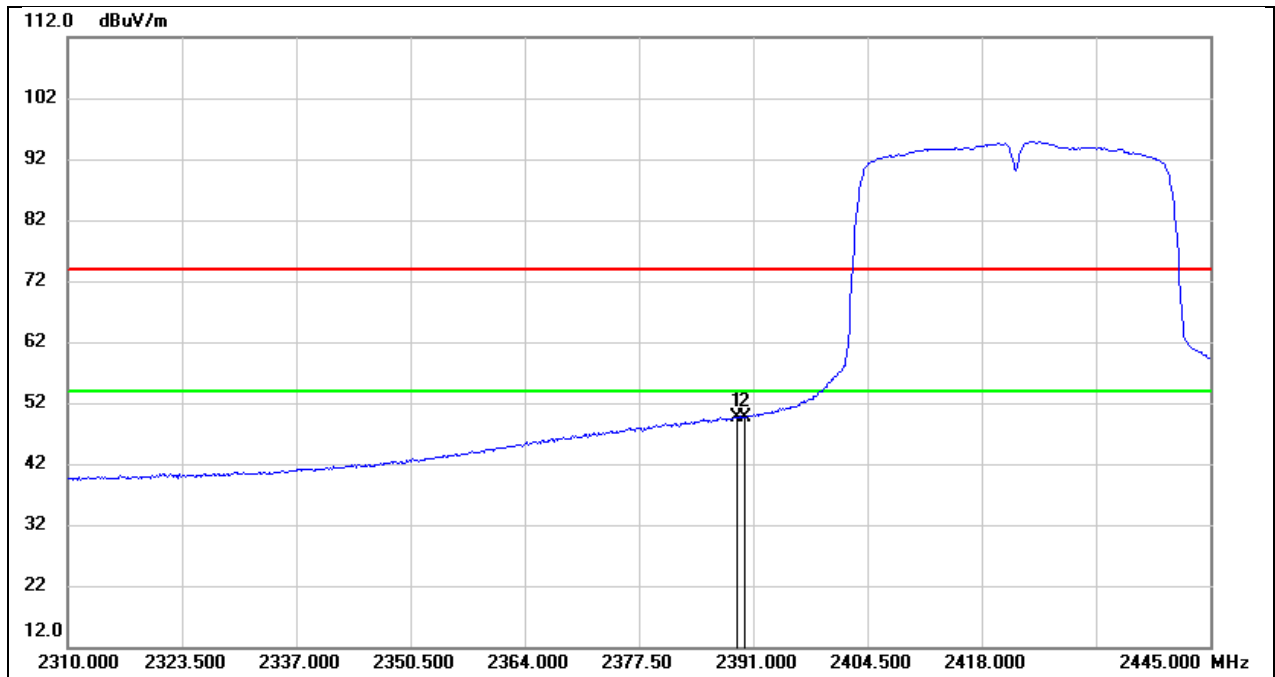
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.80	32.80	50.60	54.00	-3.40	AVG

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



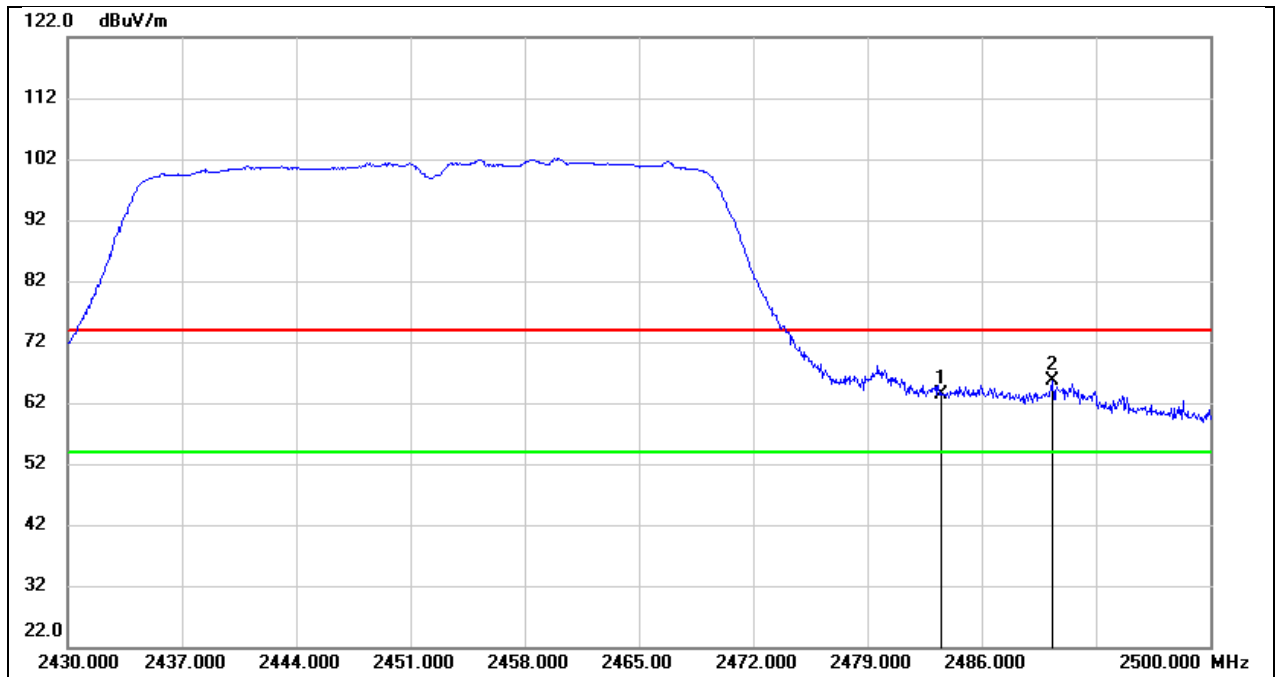
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.110	38.01	32.55	70.56	74.00	-3.44	peak
2	2390.000	36.78	32.55	69.33	74.00	-4.67	peak

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



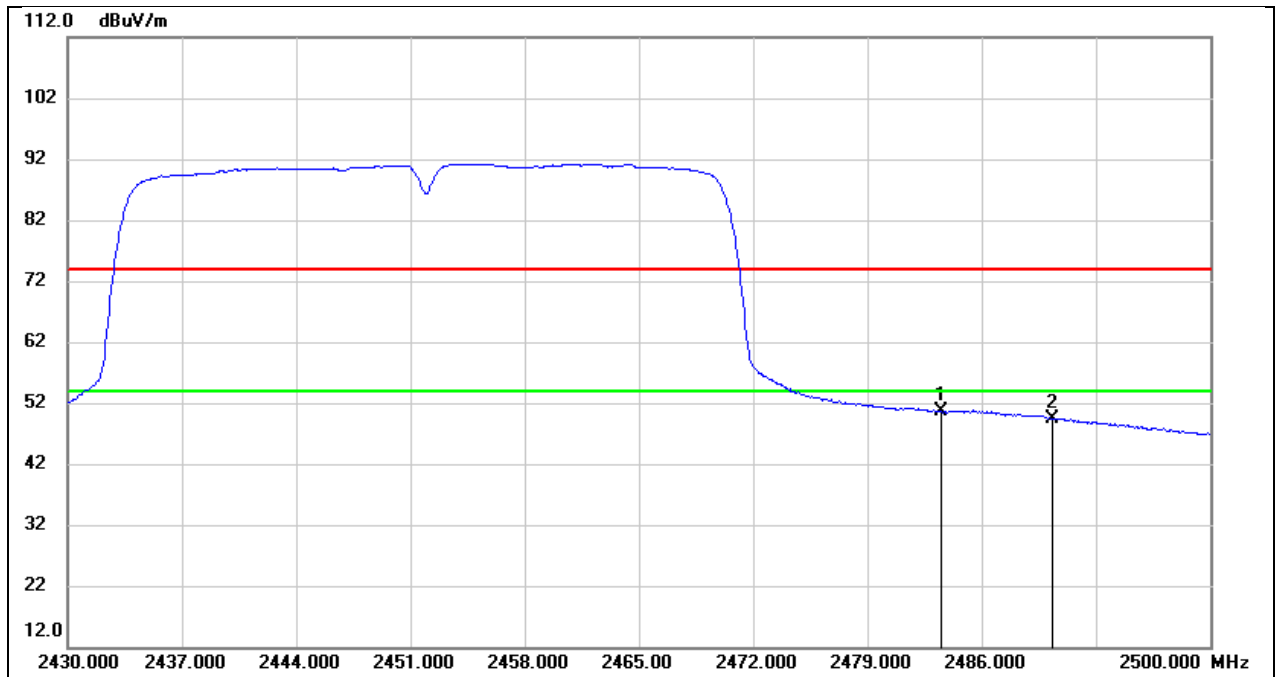
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.110	17.11	32.55	49.66	54.00	-4.34	AVG
2	2390.000	17.14	32.55	49.69	54.00	-4.31	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
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	2483.500	30.68	32.80	63.48	74.00	-10.52	peak
2	2490.340	32.71	32.81	65.52	74.00	-8.48	peak

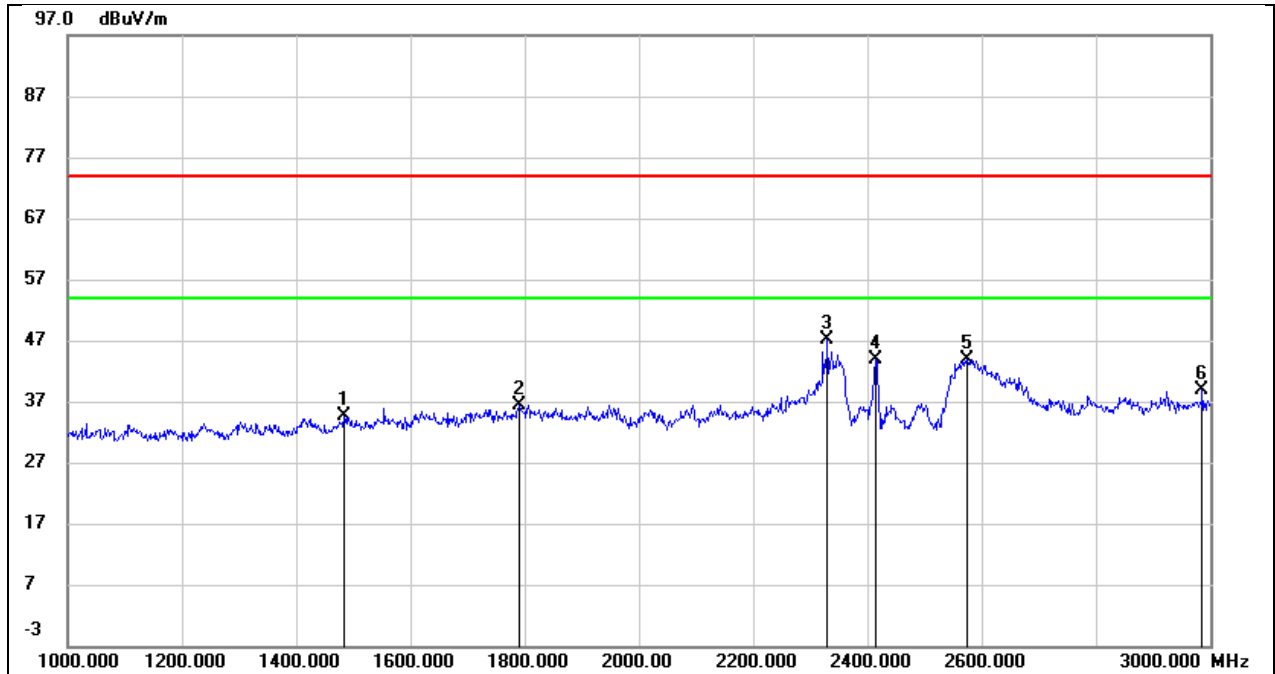
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.85	32.80	50.65	54.00	-3.35	AVG
2	2490.340	16.68	32.81	49.49	54.00	-4.51	AVG

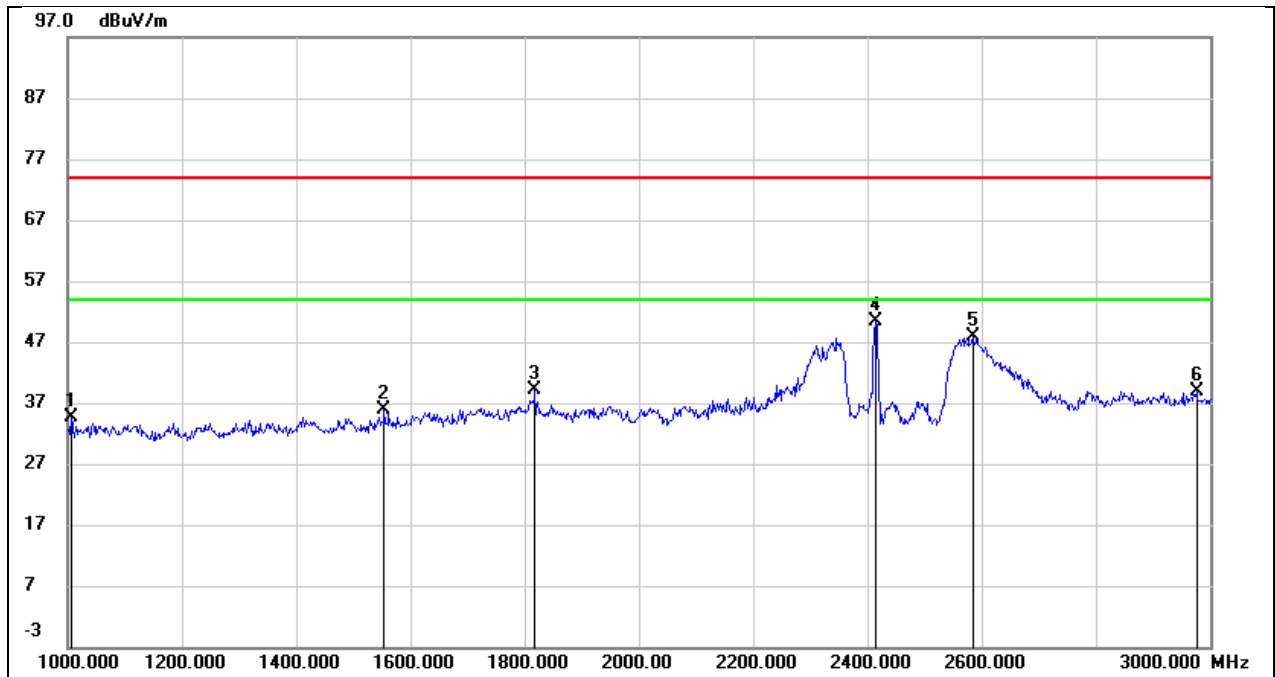
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

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



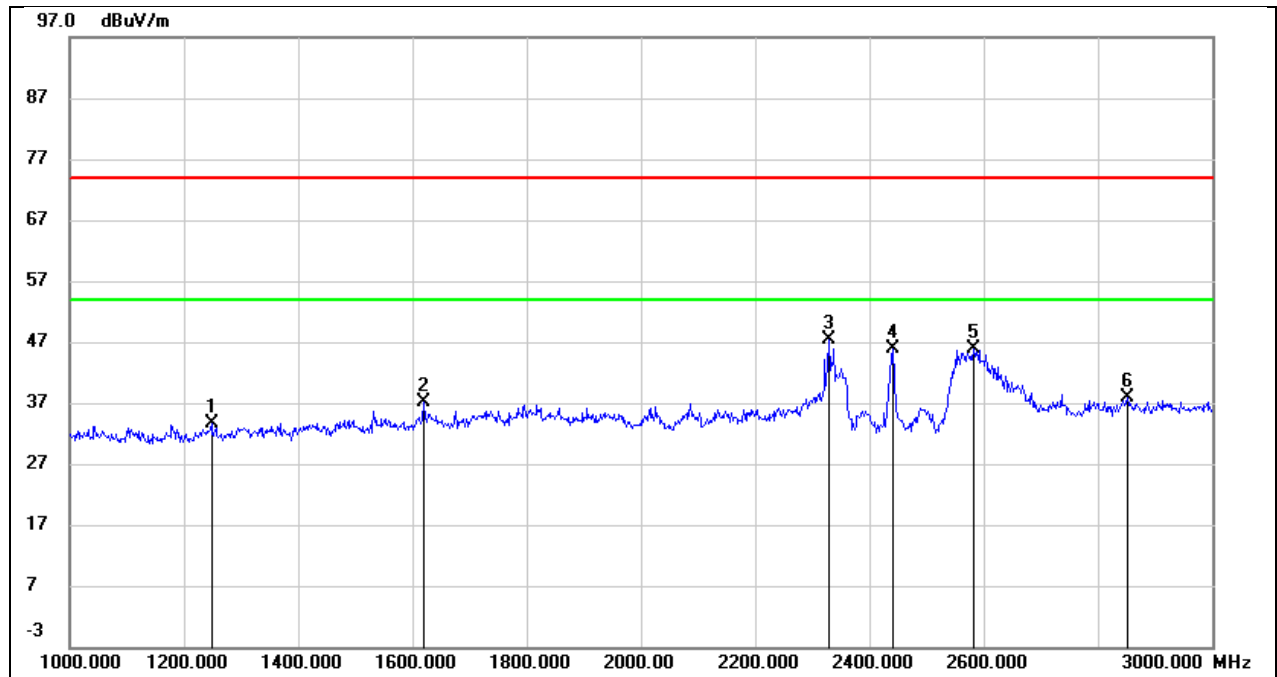
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1484.000	46.48	-11.97	34.51	74.00	-39.49	peak
2	1790.000	46.33	-10.03	36.30	74.00	-37.70	peak
3	2330.000	56.03	-8.85	47.18	74.00	-26.82	peak
4	2412.000	52.51	-8.53	43.98	/	/	fundamental
5	2574.000	51.78	-7.88	43.90	74.00	-30.10	peak
6	2986.000	44.98	-6.08	38.90	74.00	-35.10	peak

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



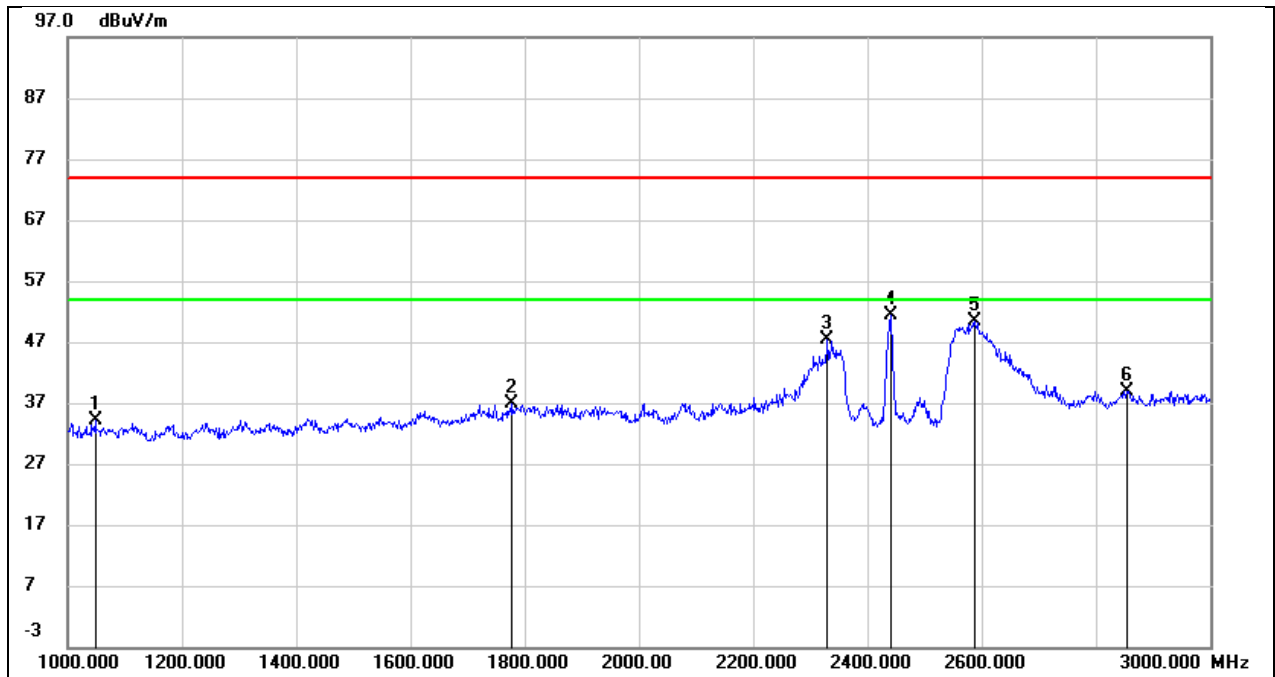
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1006.000	48.47	-13.72	34.75	74.00	-39.25	peak
2	1554.000	47.34	-11.42	35.92	74.00	-38.08	peak
3	1818.000	48.52	-9.37	39.15	74.00	-34.85	peak
4	2412.000	58.10	-7.71	50.39	/	/	fundamental
5	2584.000	54.79	-6.95	47.84	74.00	-26.16	peak
6	2976.000	43.84	-4.84	39.00	74.00	-35.00	peak

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



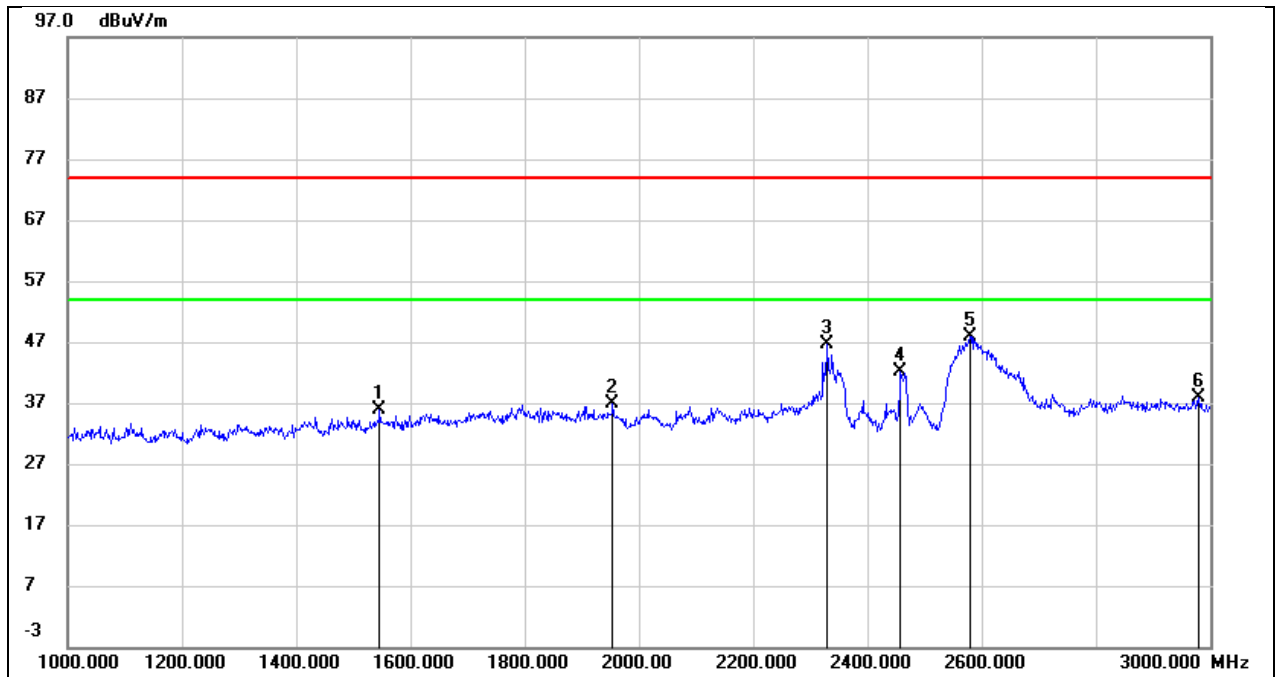
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1248.000	46.82	-13.23	33.59	74.00	-40.41	peak
2	1620.000	48.27	-11.25	37.02	74.00	-36.98	peak
3	2330.000	56.31	-8.85	47.46	74.00	-26.54	peak
4	2437.000	54.38	-8.43	45.95	/	/	fundamental
5	2582.000	53.60	-7.84	45.76	74.00	-28.24	peak
6	2852.000	44.55	-6.68	37.87	74.00	-36.13	peak

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



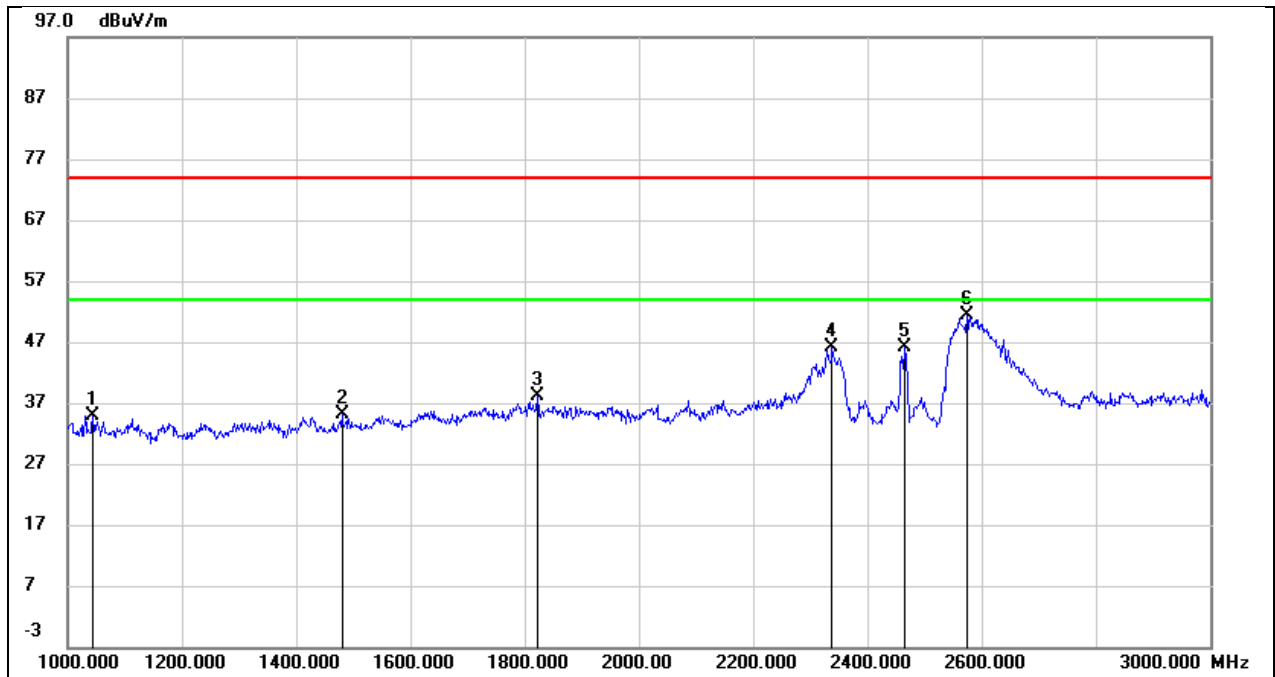
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1048.000	47.64	-13.56	34.08	74.00	-39.92	peak
2	1778.000	46.32	-9.56	36.76	74.00	-37.24	peak
3	2330.000	55.49	-8.02	47.47	74.00	-26.53	peak
4	2437.000	59.07	-7.63	51.44	/	/	fundamental
5	2588.000	57.20	-6.93	50.27	74.00	-23.73	peak
6	2854.000	44.53	-5.53	39.00	74.00	-35.00	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	1546.000	47.43	-11.65	35.78	74.00	-38.22	peak
2	1954.000	46.96	-10.07	36.89	74.00	-37.11	peak
3	2330.000	55.41	-8.85	46.56	74.00	-27.44	peak
4	2462.000	50.43	-8.37	42.06	/	/	fundamental
5	2580.000	55.84	-7.85	47.99	74.00	-26.01	peak
6	2980.000	43.93	-6.10	37.83	74.00	-36.17	peak

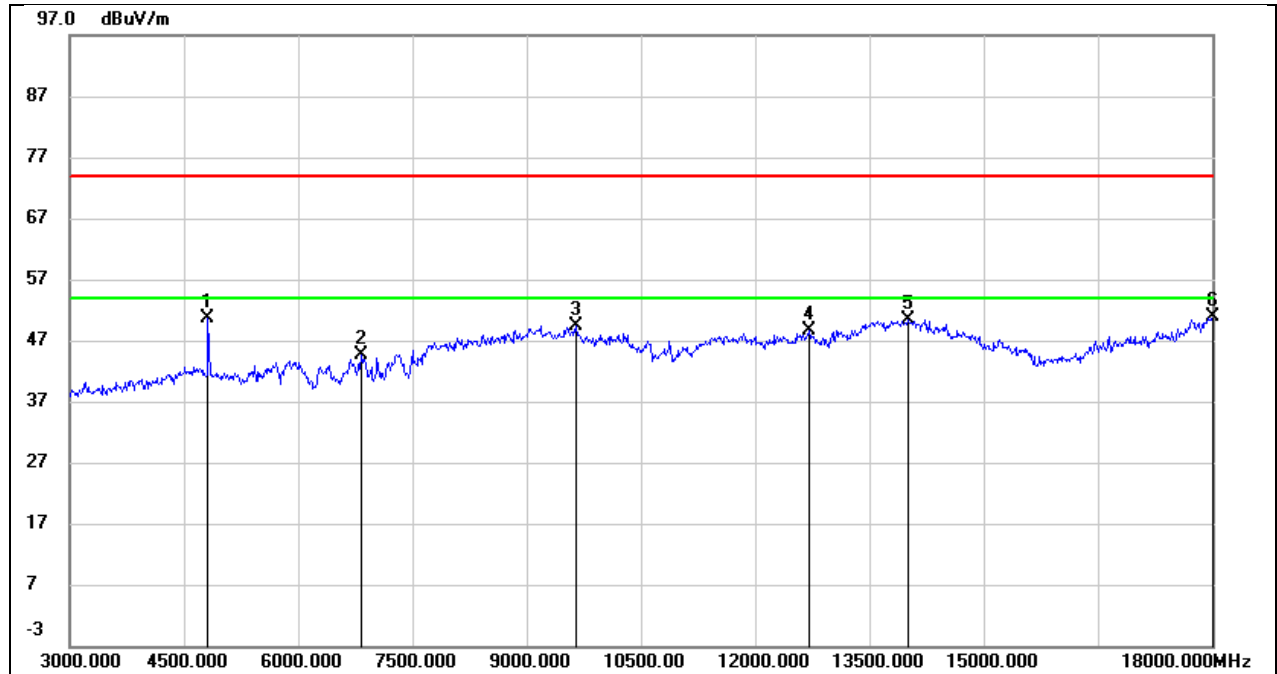
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1044.000	48.51	-13.58	34.93	74.00	-39.07	peak
2	1480.000	46.97	-11.87	35.10	74.00	-38.90	peak
3	1822.000	47.46	-9.37	38.09	74.00	-35.91	peak
4	2338.000	54.07	-7.99	46.08	74.00	-27.92	peak
5	2462.000	53.56	-7.53	46.03	/	/	fundamental
6	2574.000	58.30	-7.00	51.30	74.00	-22.70	peak

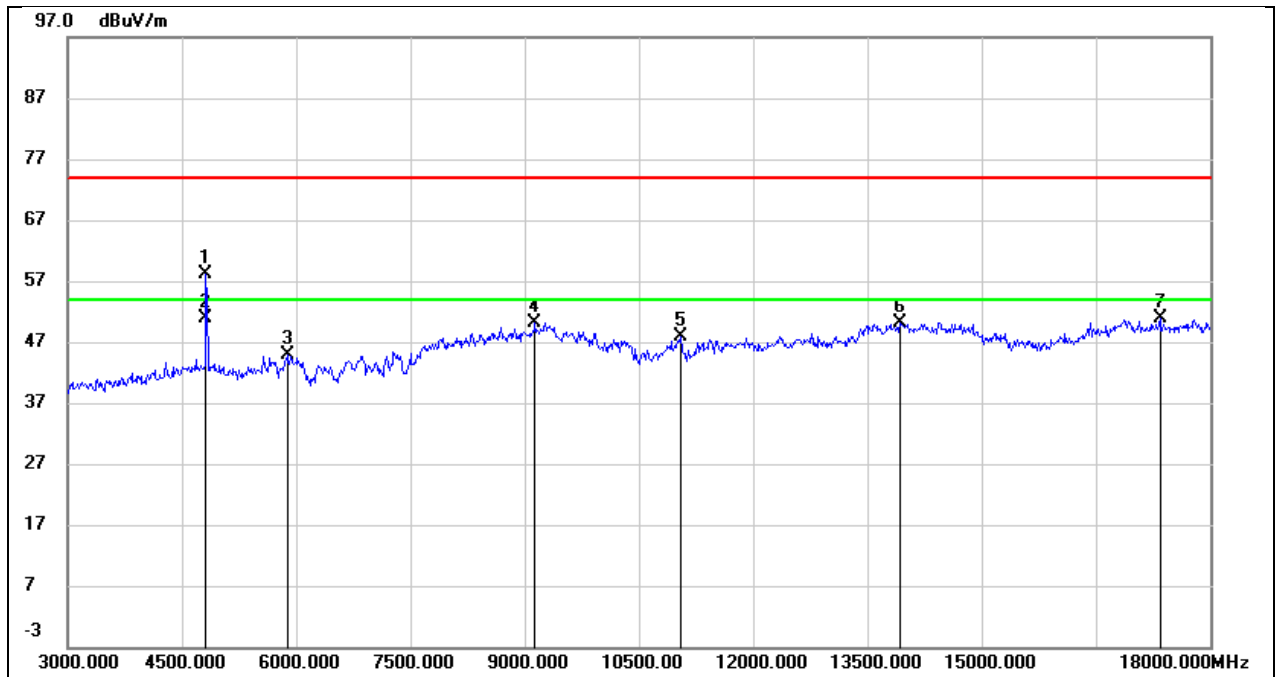
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

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



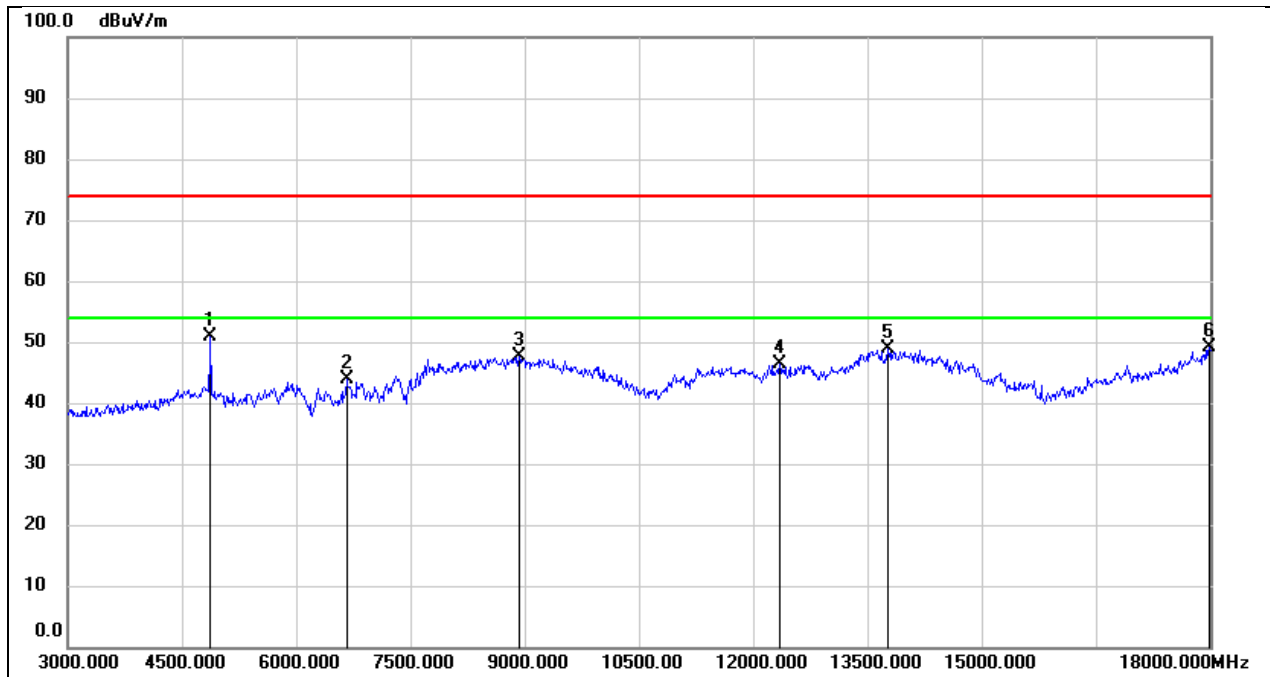
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	50.06	0.50	50.56	74.00	-23.44	peak
2	6825.000	38.65	5.94	44.59	74.00	-29.41	peak
3	9645.000	36.54	12.94	49.48	74.00	-24.52	peak
4	12705.000	29.30	19.25	48.55	74.00	-25.45	peak
5	14010.000	26.71	23.78	50.49	74.00	-23.51	peak
6	18000.000	21.14	29.64	50.78	74.00	-23.22	peak

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



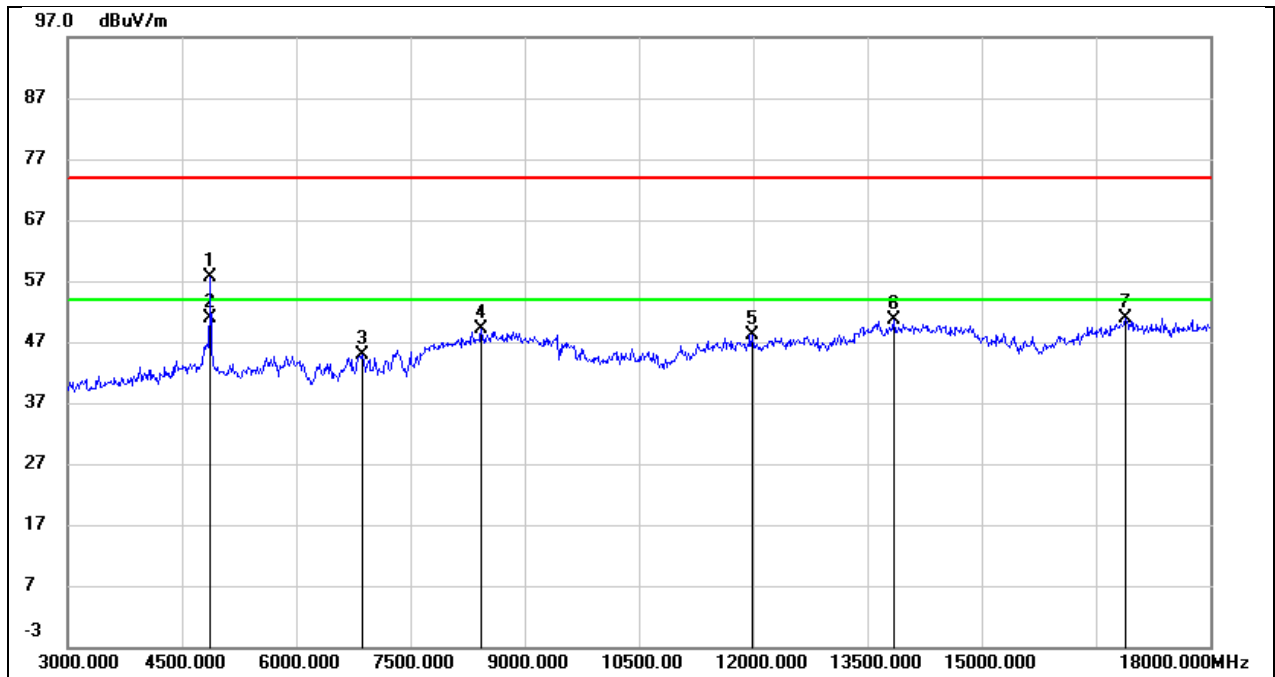
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	56.62	1.59	58.21	74.00	-15.79	peak
2	4815.000	49.33	1.59	50.92	54.00	-3.08	AVG
3	5880.000	40.83	3.95	44.78	74.00	-29.22	peak
4	9135.000	39.06	11.09	50.15	74.00	-23.85	peak
5	11055.000	32.50	15.40	47.90	74.00	-26.10	peak
6	13920.000	28.36	21.83	50.19	74.00	-23.81	peak
7	17340.000	25.43	25.37	50.80	74.00	-23.20	peak

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



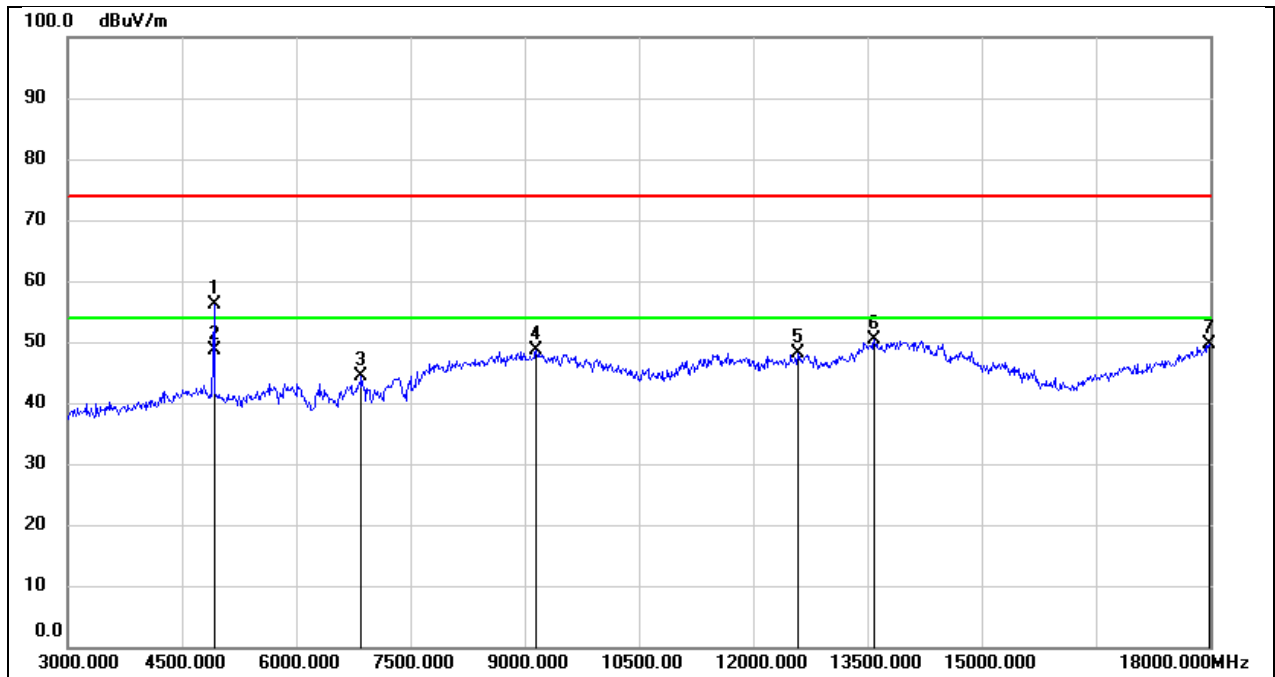
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	50.11	0.65	50.76	74.00	-23.24	peak
2	6660.000	38.60	5.31	43.91	74.00	-30.09	peak
3	8925.000	37.65	9.94	47.59	74.00	-26.41	peak
4	12345.000	27.49	18.90	46.39	74.00	-27.61	peak
5	13770.000	25.92	22.88	48.80	74.00	-25.20	peak
6	17985.000	19.74	29.49	49.23	74.00	-24.77	peak

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



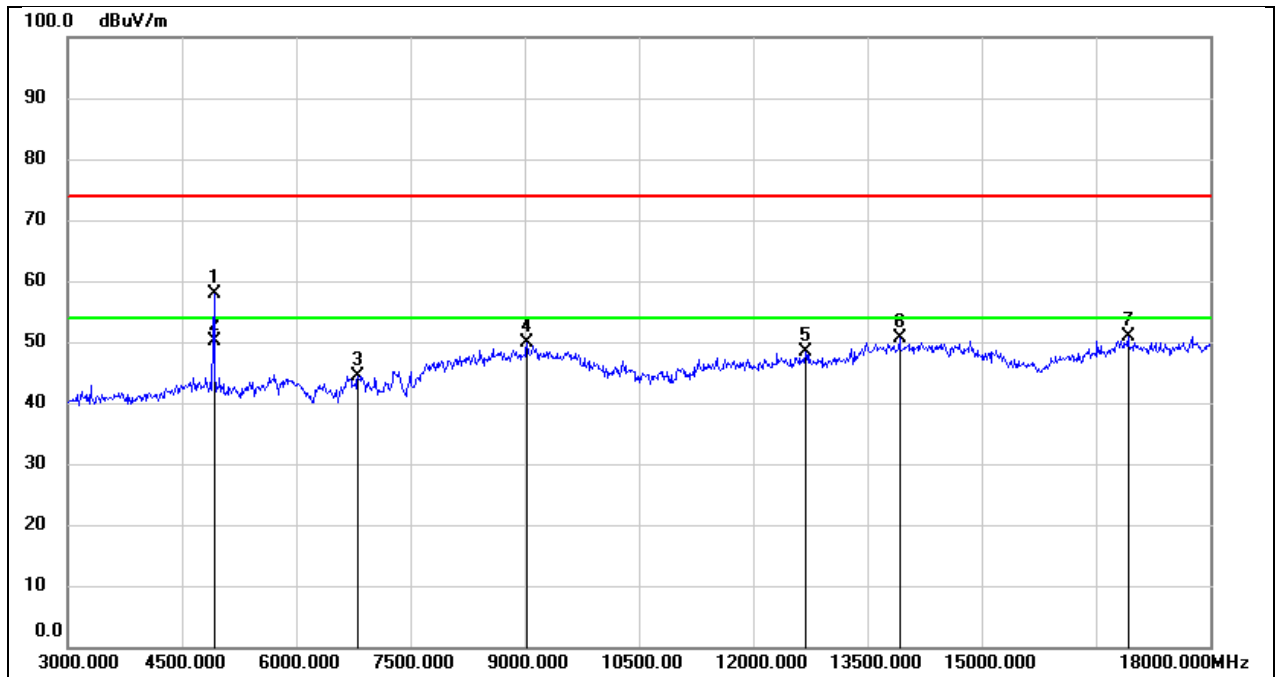
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	55.83	1.78	57.61	74.00	-16.39	peak
2	4875.000	49.05	1.78	50.83	54.00	-3.17	AVG
3	6870.000	37.99	6.92	44.91	74.00	-29.09	peak
4	8430.000	39.59	9.51	49.10	74.00	-24.90	peak
5	11985.000	30.56	17.59	48.15	74.00	-25.85	peak
6	13845.000	29.18	21.49	50.67	74.00	-23.33	peak
7	16890.000	25.86	25.05	50.91	74.00	-23.09	peak

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



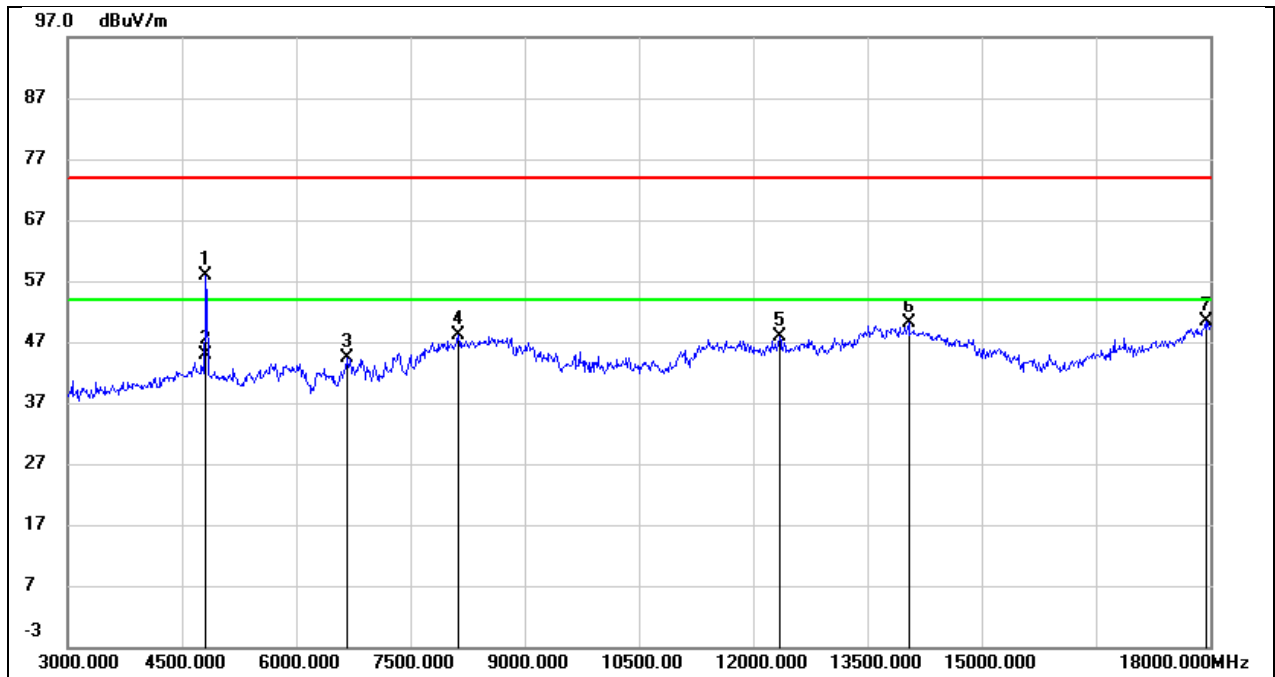
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	55.35	0.76	56.11	74.00	-17.89	peak
2	4920.000	47.76	0.76	48.52	54.00	-5.48	AVG
3	6855.000	38.27	6.01	44.28	74.00	-29.72	peak
4	9150.000	37.74	10.87	48.61	74.00	-25.39	peak
5	12585.000	29.24	18.96	48.20	74.00	-25.80	peak
6	13590.000	27.77	22.60	50.37	74.00	-23.63	peak
7	17985.000	20.10	29.49	49.59	74.00	-24.41	peak

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



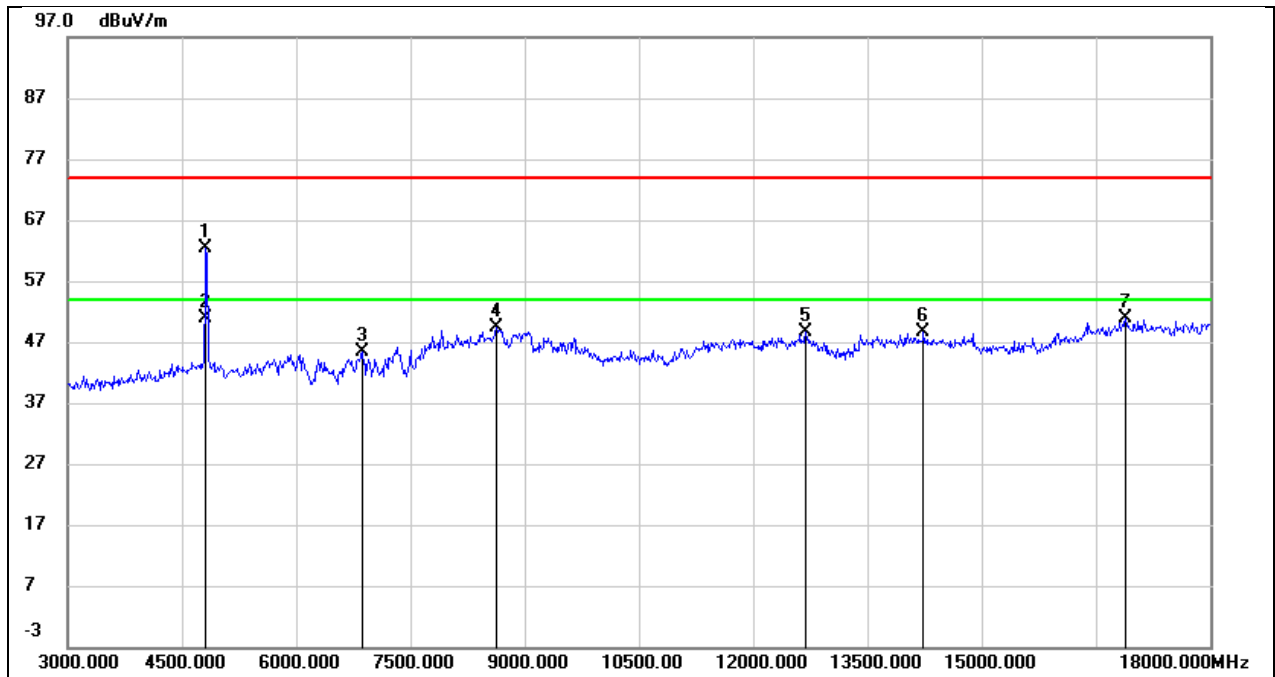
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	55.87	1.91	57.78	74.00	-16.22	peak
2	4920.000	48.18	1.91	50.09	54.00	-3.91	AVG
3	6810.000	37.73	6.77	44.50	74.00	-29.50	peak
4	9030.000	39.09	10.68	49.77	74.00	-24.23	peak
5	12690.000	30.31	18.19	48.50	74.00	-25.50	peak
6	13920.000	28.81	21.83	50.64	74.00	-23.36	peak
7	16920.000	25.91	25.08	50.99	74.00	-23.01	peak

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



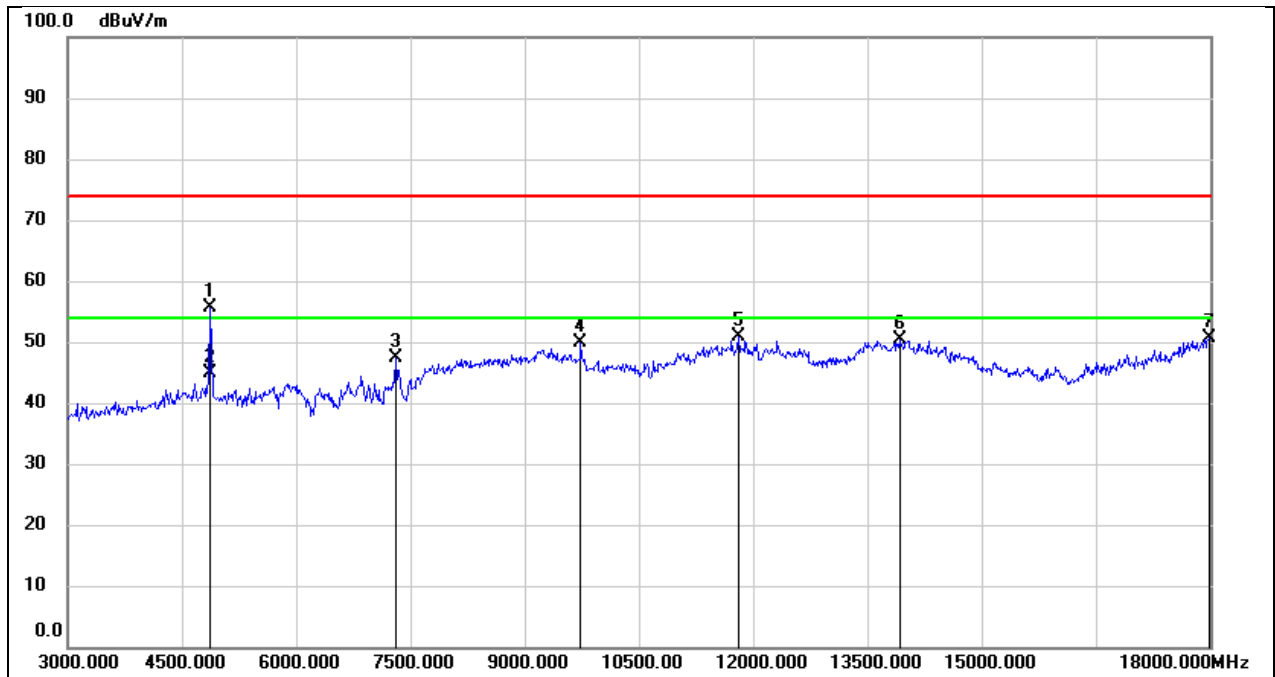
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	57.45	0.50	57.95	74.00	-16.05	peak
2	4815.000	44.26	0.50	44.76	54.00	-9.24	AVG
3	6660.000	39.10	5.31	44.41	74.00	-29.59	peak
4	8130.000	39.86	8.36	48.22	74.00	-25.78	peak
5	12345.000	29.10	18.90	48.00	74.00	-26.00	peak
6	14040.000	26.50	23.70	50.20	74.00	-23.80	peak
7	17940.000	21.40	29.03	50.43	74.00	-23.57	peak

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



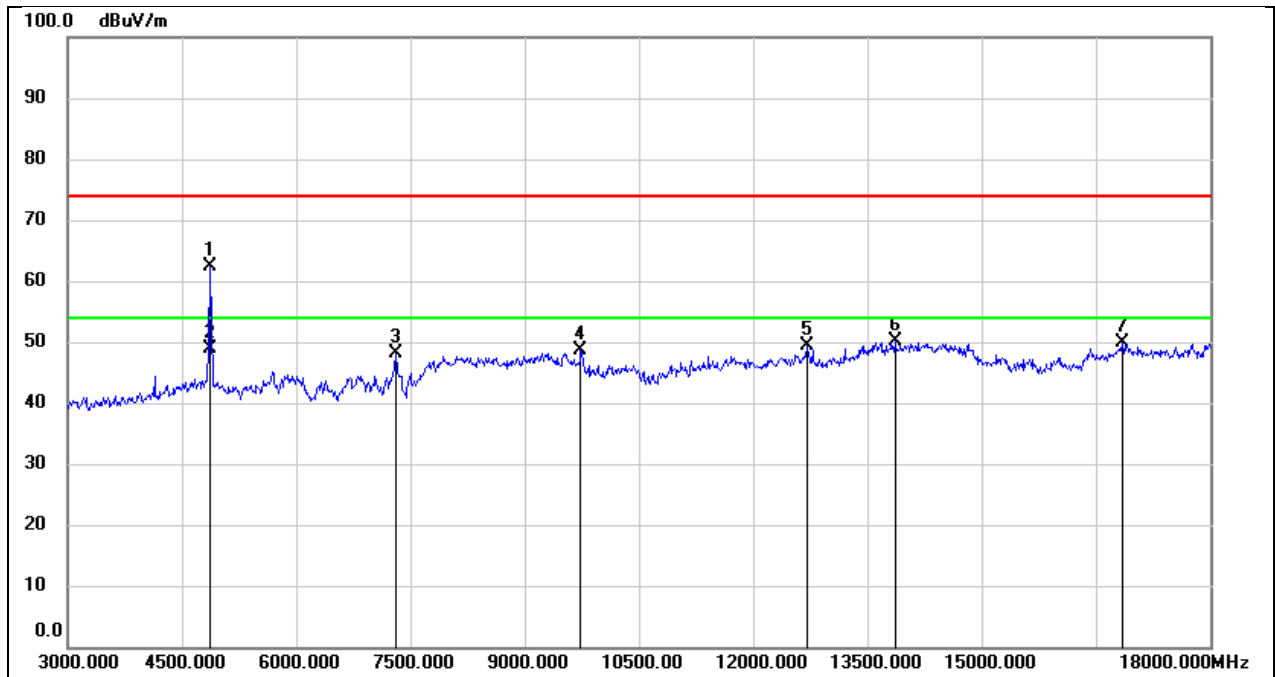
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	60.74	1.59	62.33	74.00	-11.67	peak
2	4815.000	49.28	1.59	50.87	54.00	-3.13	AVG
3	6870.000	38.38	6.92	45.30	74.00	-28.70	peak
4	8625.000	39.39	9.89	49.28	74.00	-24.72	peak
5	12690.000	30.47	18.19	48.66	74.00	-25.34	peak
6	14235.000	26.50	22.17	48.67	74.00	-25.33	peak
7	16890.000	25.92	25.05	50.97	74.00	-23.03	peak

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



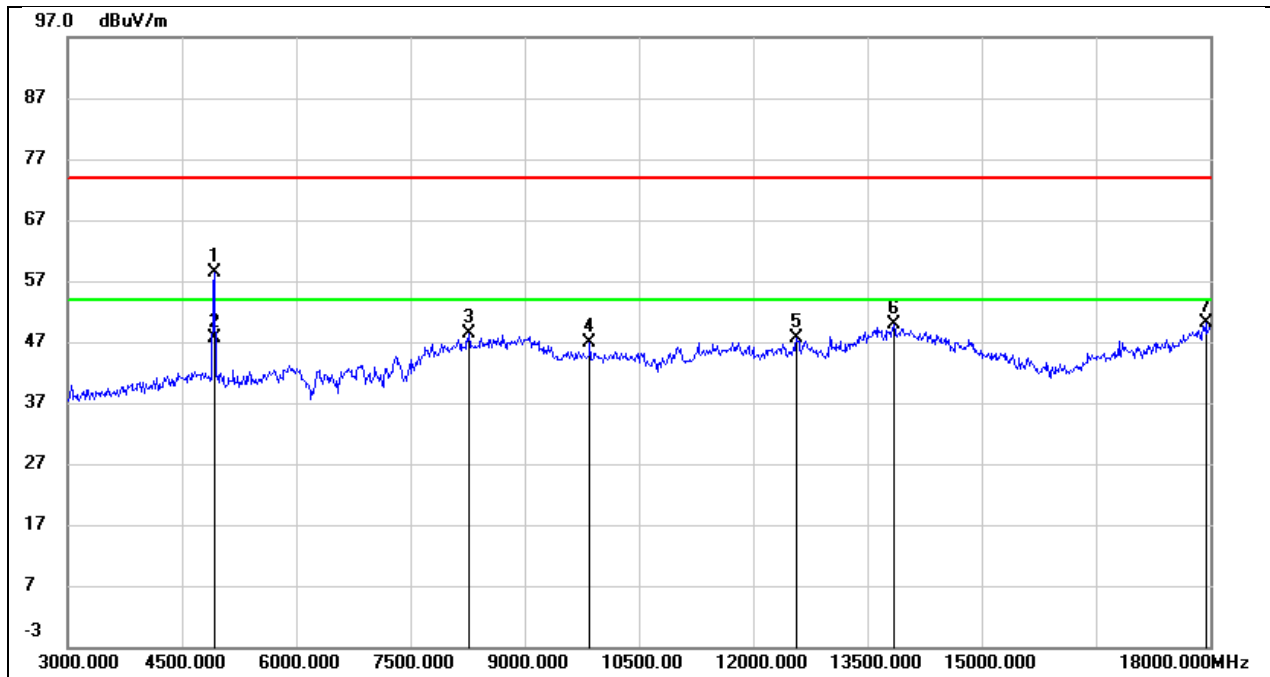
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	54.98	0.65	55.63	74.00	-18.37	peak
2	4875.000	44.28	0.65	44.93	54.00	-9.07	AVG
3	7305.000	40.31	7.03	47.34	74.00	-26.66	peak
4	9735.000	36.77	13.15	49.92	74.00	-24.08	peak
5	11805.000	32.30	18.50	50.80	74.00	-23.20	peak
6	13920.000	26.88	23.45	50.33	74.00	-23.67	peak
7	17985.000	21.21	29.49	50.70	74.00	-23.30	peak

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



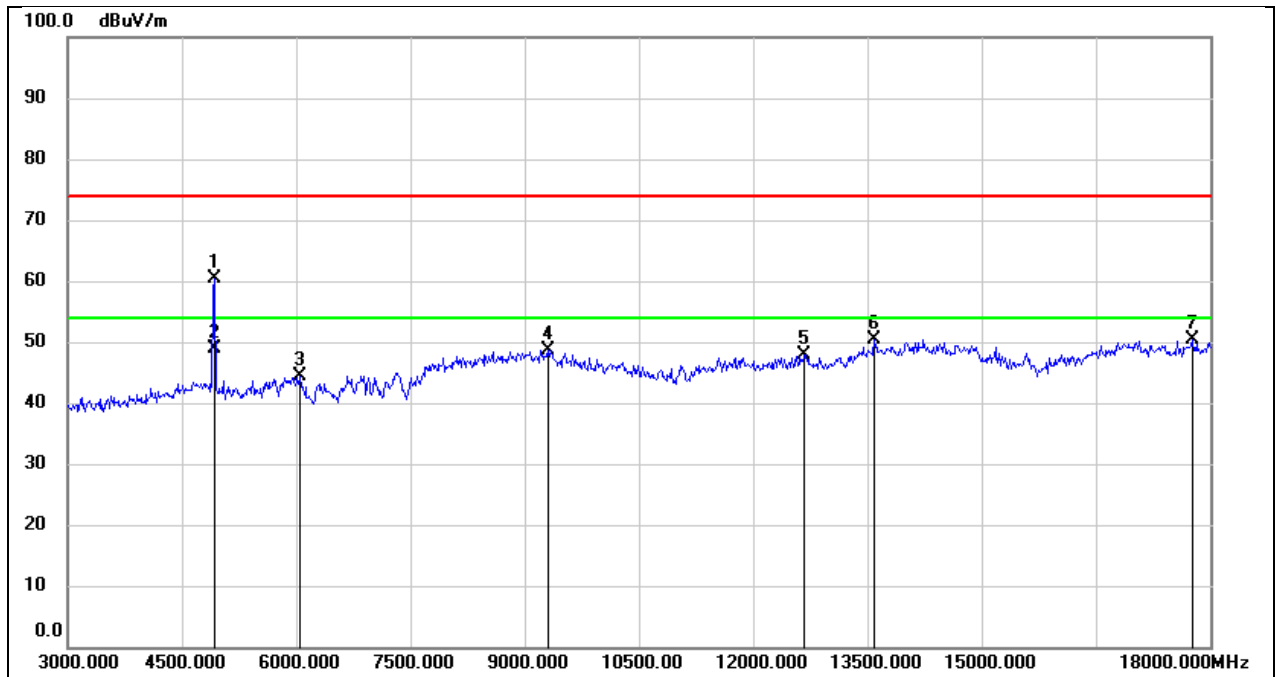
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	60.64	1.73	62.37	74.00	-11.63	peak
2	4860.000	47.21	1.73	48.94	54.00	-5.06	AVG
3	7305.000	40.37	7.68	48.05	74.00	-25.95	peak
4	9735.000	35.80	12.82	48.62	74.00	-25.38	peak
5	12705.000	31.13	18.22	49.35	74.00	-24.65	peak
6	13860.000	28.46	21.56	50.02	74.00	-23.98	peak
7	16845.000	24.87	24.99	49.86	74.00	-24.14	peak

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



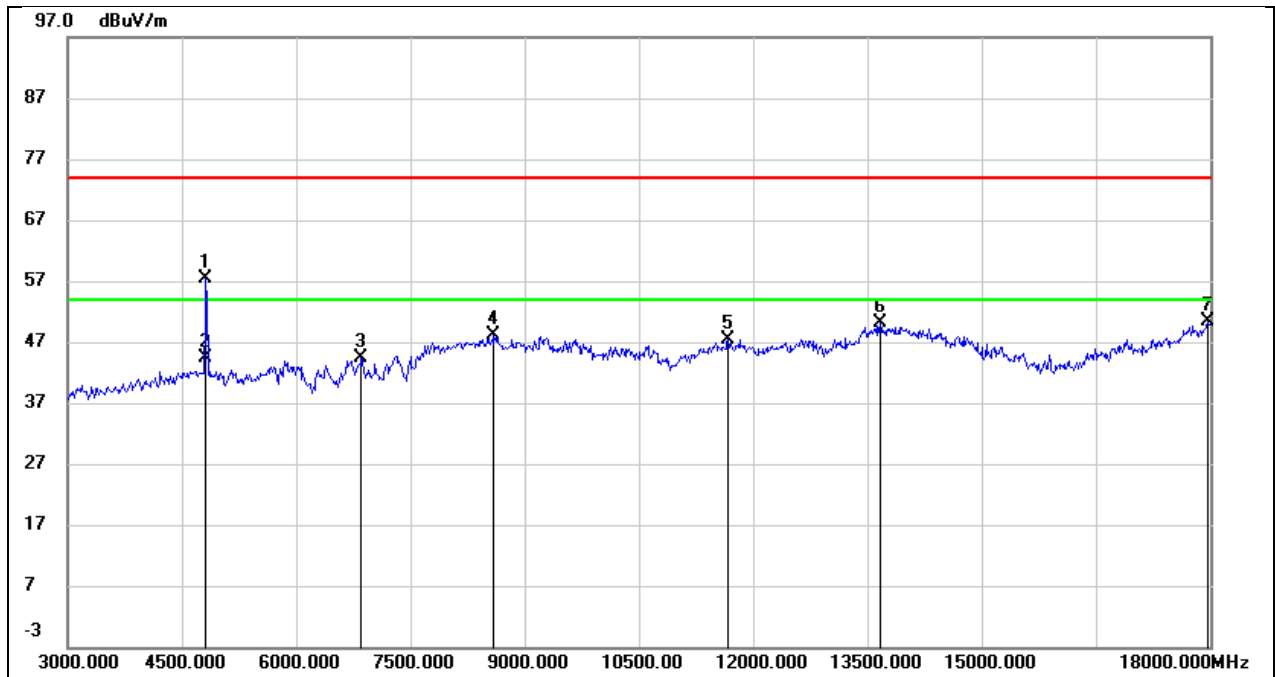
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	57.69	0.76	58.45	74.00	-15.55	peak
2	4920.000	46.89	0.76	47.65	54.00	-6.35	AVG
3	8265.000	39.61	8.65	48.26	74.00	-25.74	peak
4	9855.000	33.46	13.30	46.76	74.00	-27.24	peak
5	12570.000	28.71	18.94	47.65	74.00	-26.35	peak
6	13845.000	26.65	23.12	49.77	74.00	-24.23	peak
7	17940.000	20.98	29.03	50.01	74.00	-23.99	peak

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



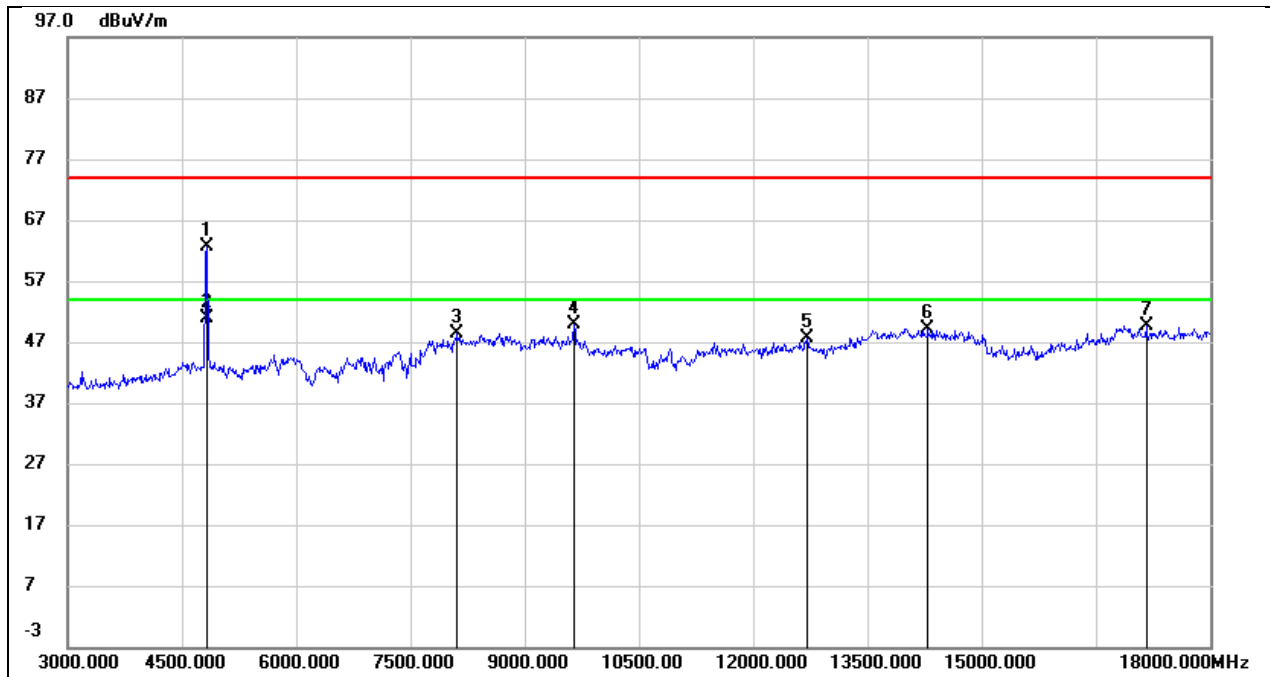
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	58.52	1.91	60.43	74.00	-13.57	peak
2	4920.000	47.08	1.91	48.99	54.00	-5.01	AVG
3	6045.000	40.18	4.31	44.49	74.00	-29.51	peak
4	9300.000	37.05	11.68	48.73	74.00	-25.27	peak
5	12675.000	29.70	18.17	47.87	74.00	-26.13	peak
6	13590.000	29.50	20.92	50.42	74.00	-23.58	peak
7	17760.000	24.16	26.16	50.32	74.00	-23.68	peak

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



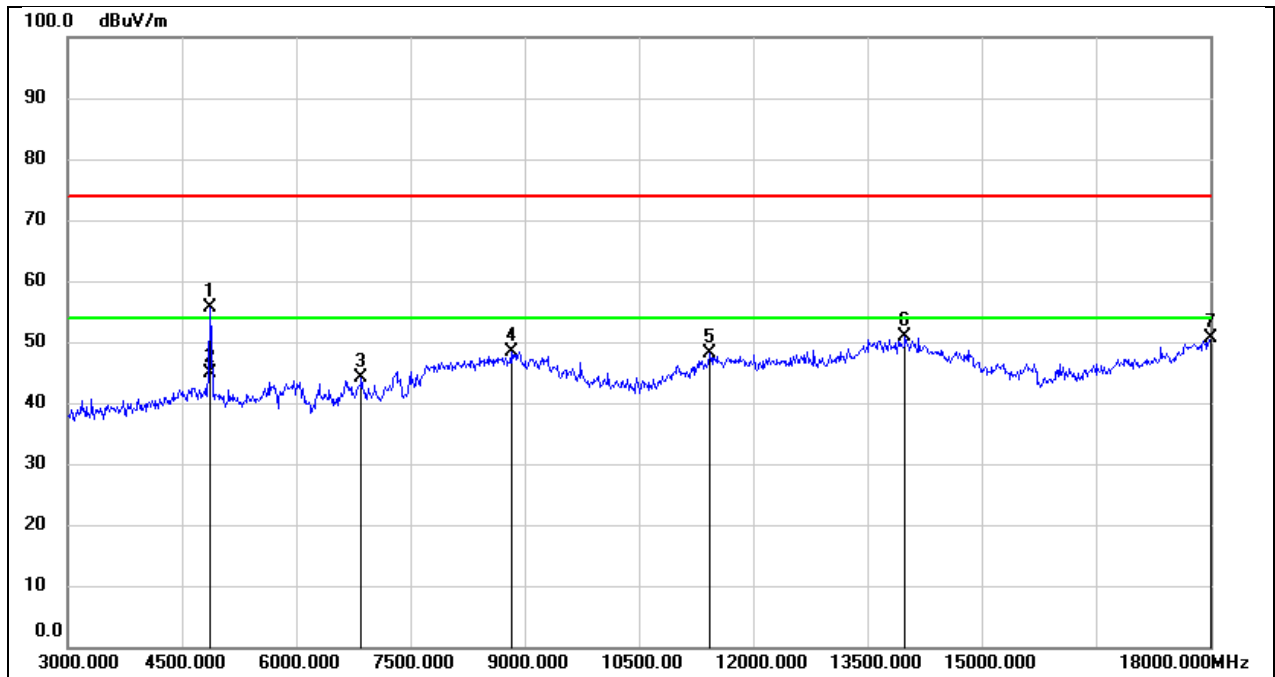
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	56.84	0.50	57.34	74.00	-16.66	peak
2	4815.000	43.97	0.50	44.47	54.00	-9.53	AVG
3	6855.000	38.25	6.01	44.26	74.00	-29.74	peak
4	8595.000	38.74	9.29	48.03	74.00	-25.97	peak
5	11670.000	29.18	18.27	47.45	74.00	-26.55	peak
6	13665.000	27.42	22.72	50.14	74.00	-23.86	peak
7	17970.000	21.12	29.33	50.45	74.00	-23.55	peak

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



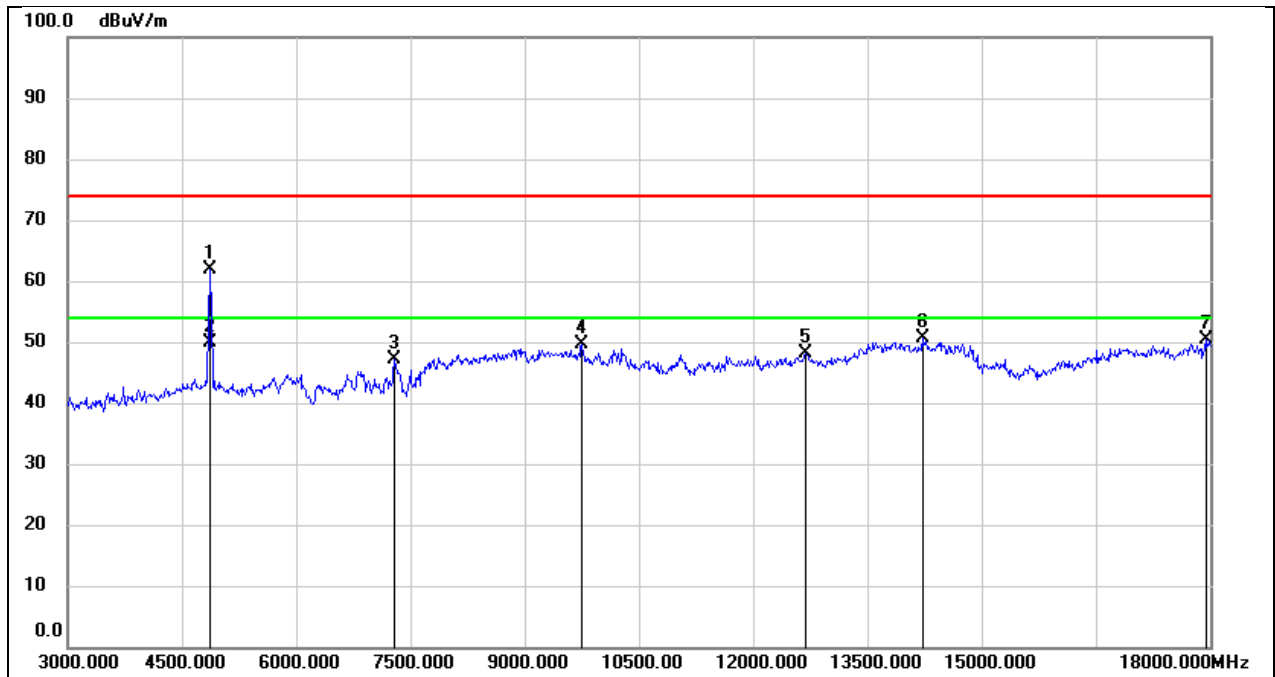
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	60.91	1.64	62.55	74.00	-11.45	peak
2	4830.000	49.31	1.64	50.95	54.00	-3.05	AVG
3	8115.000	39.46	8.86	48.32	74.00	-25.68	peak
4	9645.000	37.11	12.73	49.84	74.00	-24.16	peak
5	12705.000	29.37	18.22	47.59	74.00	-26.41	peak
6	14295.000	27.17	22.01	49.18	74.00	-24.82	peak
7	17160.000	24.35	25.29	49.64	74.00	-24.36	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



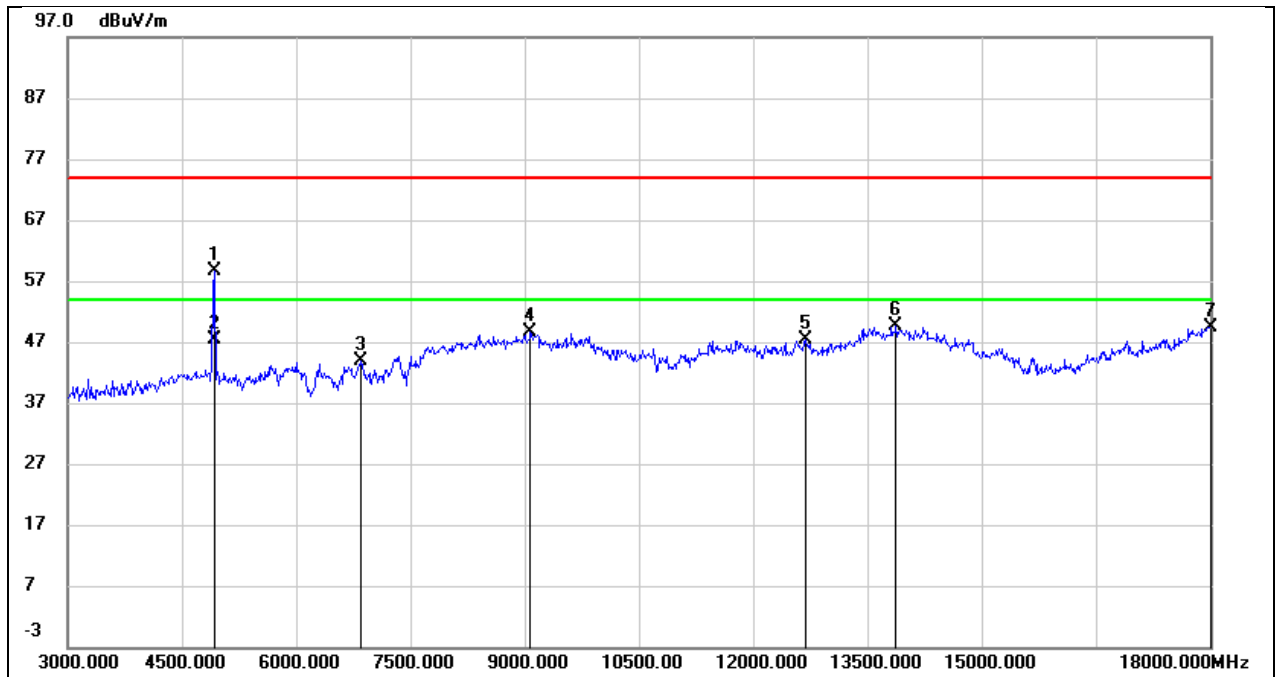
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	55.04	0.65	55.69	74.00	-18.31	peak
2	4875.000	44.18	0.65	44.83	54.00	-9.17	AVG
3	6855.000	38.06	6.01	44.07	74.00	-29.93	peak
4	8820.000	38.88	9.62	48.50	74.00	-25.50	peak
5	11430.000	30.35	17.72	48.07	74.00	-25.93	peak
6	13995.000	27.17	23.78	50.95	74.00	-23.05	peak
7	18000.000	21.01	29.64	50.65	74.00	-23.35	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



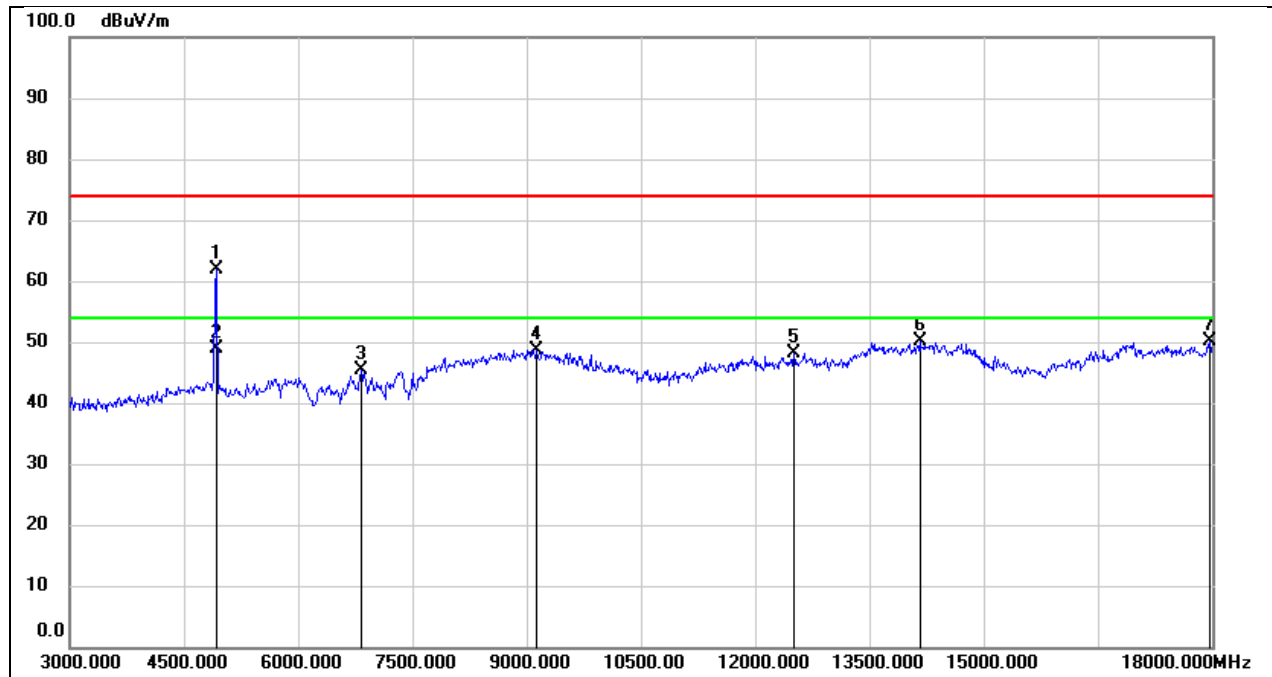
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	60.21	1.73	61.94	74.00	-12.06	peak
2	4860.000	48.11	1.73	49.84	54.00	-4.16	AVG
3	7290.000	39.46	7.68	47.14	74.00	-26.86	peak
4	9750.000	36.87	12.83	49.70	74.00	-24.30	peak
5	12690.000	30.04	18.19	48.23	74.00	-25.77	peak
6	14220.000	28.50	22.22	50.72	74.00	-23.28	peak
7	17940.000	23.34	27.10	50.44	74.00	-23.56	peak

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



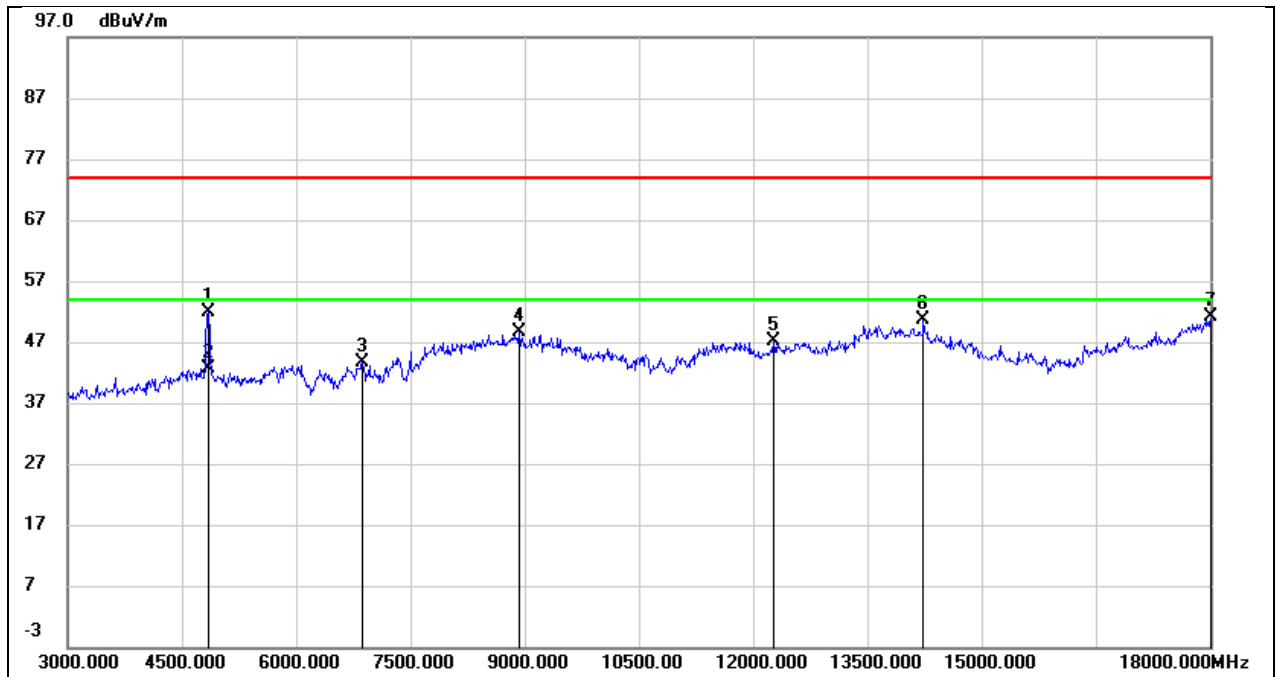
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	57.84	0.76	58.60	74.00	-15.40	peak
2	4920.000	46.59	0.76	47.35	54.00	-6.65	AVG
3	6840.000	37.99	5.97	43.96	74.00	-30.04	peak
4	9075.000	38.04	10.52	48.56	74.00	-25.44	peak
5	12690.000	28.10	19.21	47.31	74.00	-26.69	peak
6	13875.000	26.48	23.26	49.74	74.00	-24.26	peak
7	18000.000	19.83	29.64	49.47	74.00	-24.53	peak

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



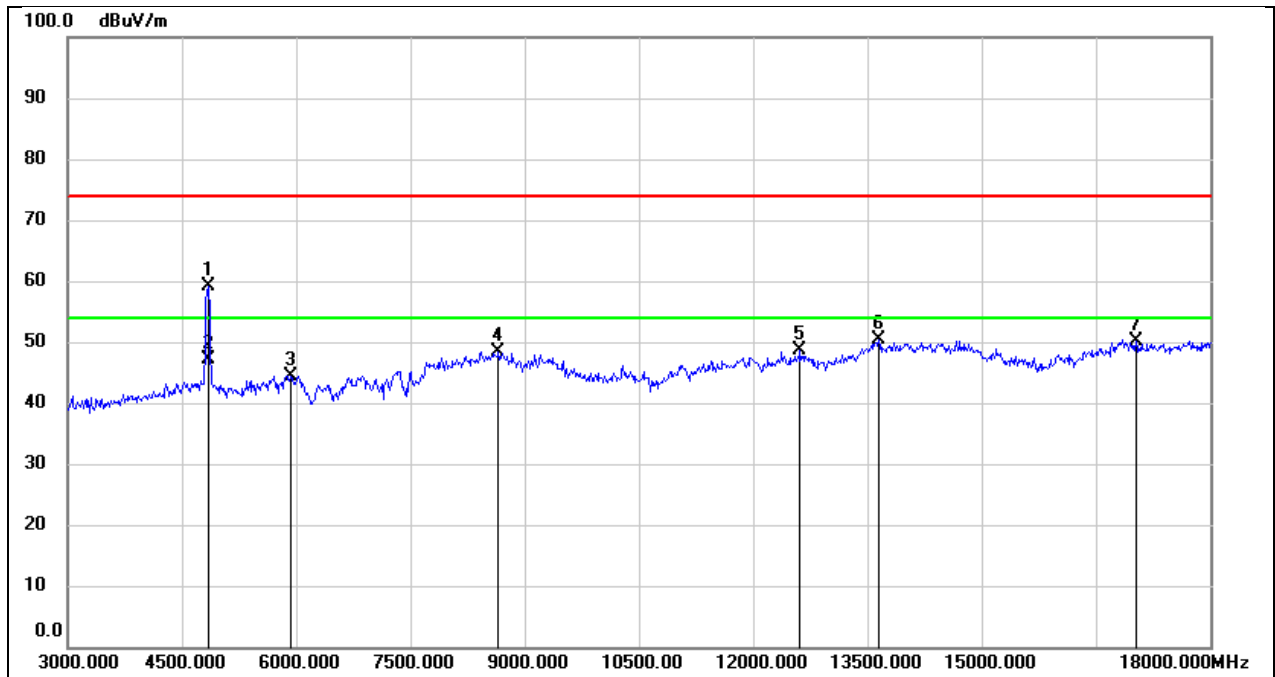
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	59.92	1.91	61.83	74.00	-12.17	peak
2	4920.000	47.05	1.91	48.96	54.00	-5.04	AVG
3	6825.000	38.50	6.81	45.31	74.00	-28.69	peak
4	9135.000	37.54	11.09	48.63	74.00	-25.37	peak
5	12510.000	30.24	17.99	48.23	74.00	-25.77	peak
6	14160.000	27.96	22.26	50.22	74.00	-23.78	peak
7	17970.000	22.77	27.26	50.03	74.00	-23.97	peak

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



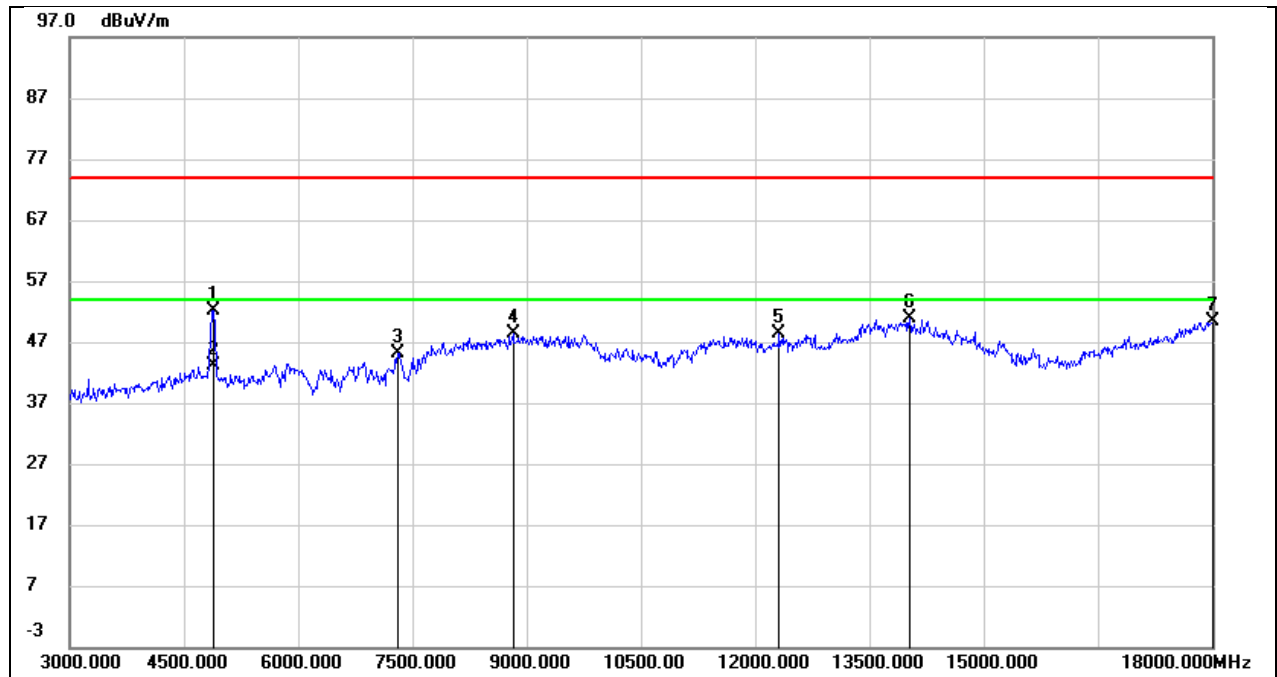
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	51.19	0.58	51.77	74.00	-22.23	peak
2	4845.000	42.09	0.58	42.67	54.00	-11.33	AVG
3	6870.000	37.56	6.04	43.60	74.00	-30.40	peak
4	8925.000	38.74	9.94	48.68	74.00	-25.32	peak
5	12270.000	28.36	18.81	47.17	74.00	-26.83	peak
6	14235.000	27.35	23.16	50.51	74.00	-23.49	peak
7	18000.000	21.41	29.64	51.05	74.00	-22.95	peak

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



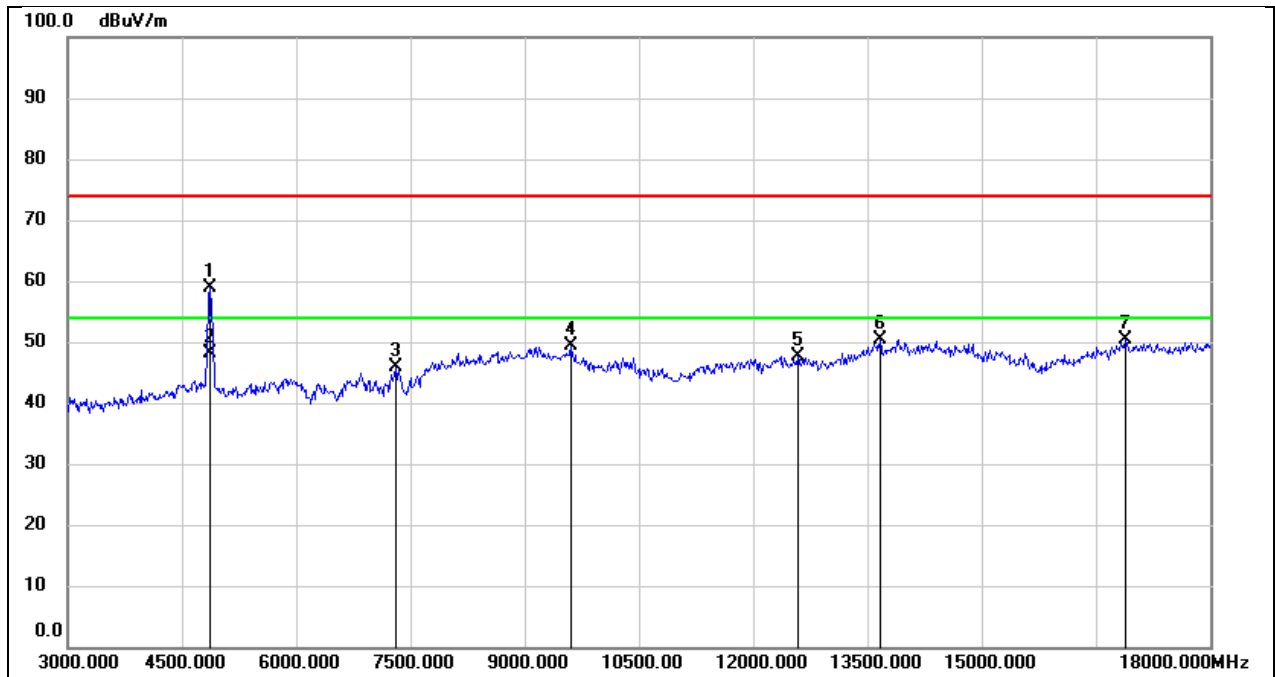
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	57.38	1.69	59.07	74.00	-14.93	peak
2	4845.000	45.37	1.69	47.06	54.00	-6.94	AVG
3	5925.000	40.46	4.02	44.48	74.00	-29.52	peak
4	8655.000	38.49	9.91	48.40	74.00	-25.60	peak
5	12615.000	30.48	18.04	48.52	74.00	-25.48	peak
6	13650.000	29.32	21.02	50.34	74.00	-23.66	peak
7	17025.000	24.90	25.19	50.09	74.00	-23.91	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



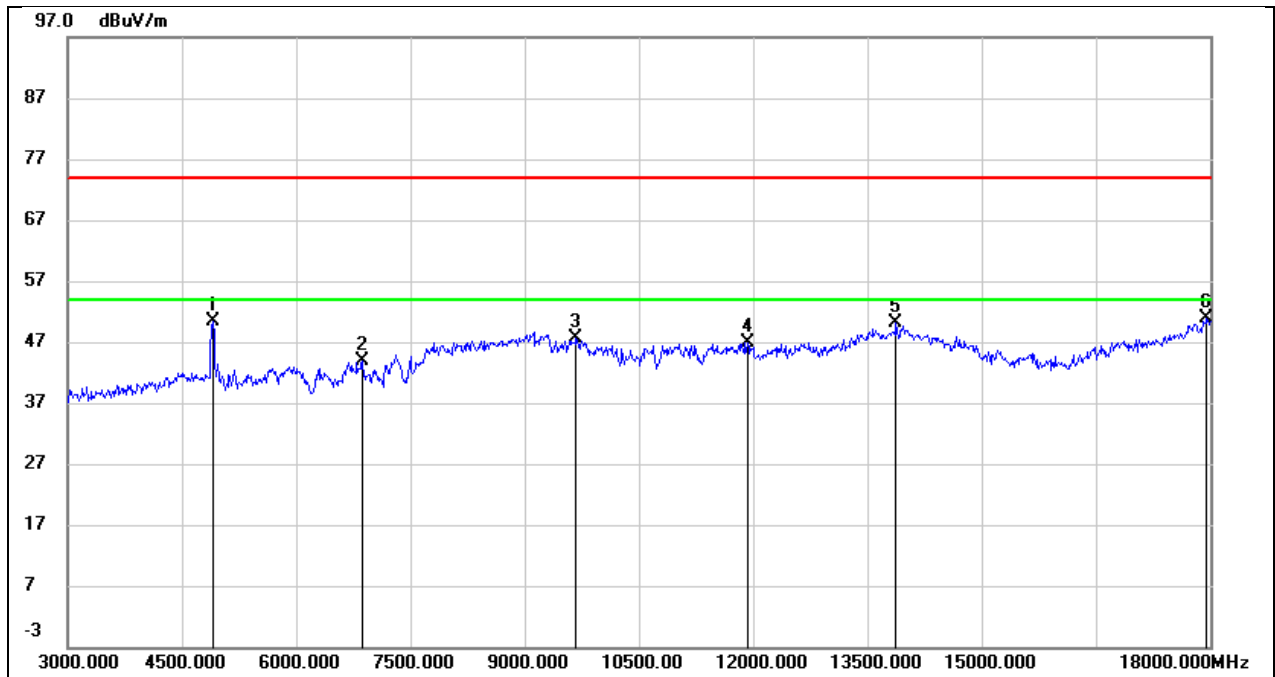
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4890.000	51.54	0.68	52.22	74.00	-21.78	peak
2	4890.000	42.53	0.68	43.21	54.00	-10.79	AVG
3	7305.000	38.10	7.03	45.13	74.00	-28.87	peak
4	8820.000	38.82	9.62	48.44	74.00	-25.56	peak
5	12315.000	29.53	18.87	48.40	74.00	-25.60	peak
6	14025.000	27.09	23.74	50.83	74.00	-23.17	peak
7	18000.000	20.80	29.64	50.44	74.00	-23.56	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



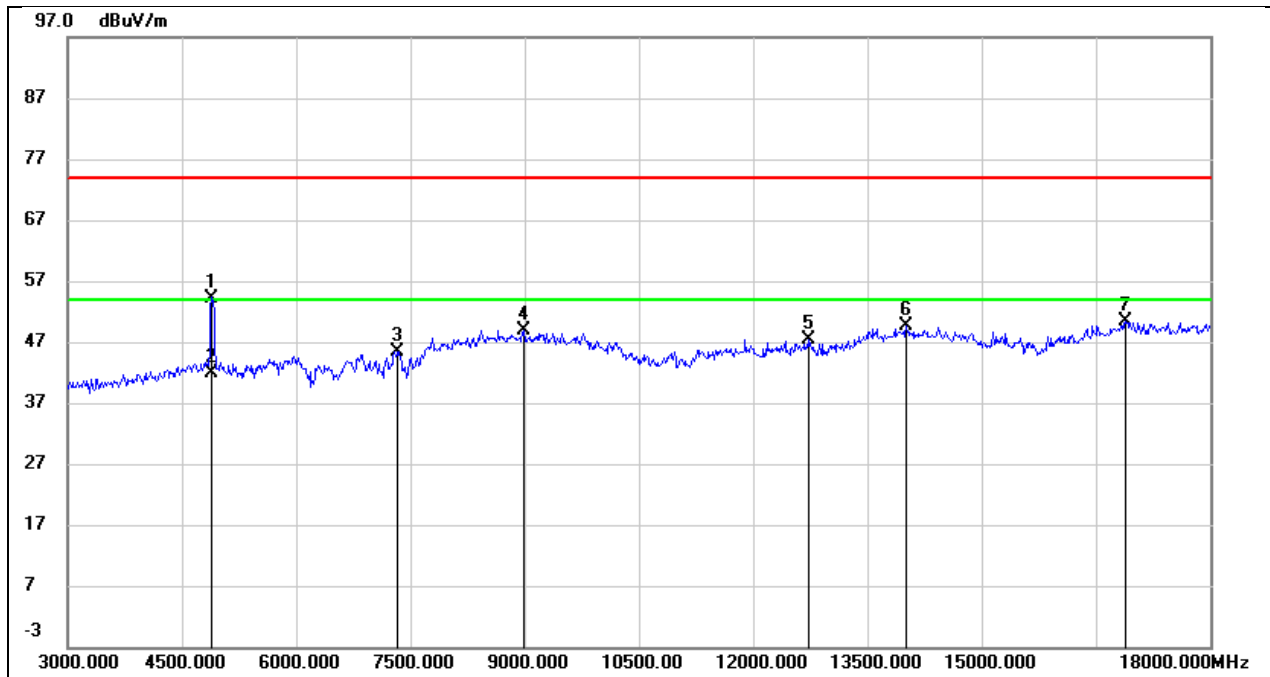
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	57.17	1.78	58.95	74.00	-15.05	peak
2	4875.000	46.23	1.78	48.01	54.00	-5.99	AVG
3	7305.000	38.13	7.68	45.81	74.00	-28.19	peak
4	9600.000	36.67	12.69	49.36	74.00	-24.64	peak
5	12585.000	29.62	18.01	47.63	74.00	-26.37	peak
6	13665.000	29.42	21.05	50.47	74.00	-23.53	peak
7	16890.000	25.28	25.05	50.33	74.00	-23.67	peak

Test Mode:	802.11n HT40	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	4905.000	49.65	0.72	50.37	74.00	-23.63	peak
2	6870.000	37.79	6.04	43.83	74.00	-30.17	peak
3	9675.000	34.57	13.01	47.58	74.00	-26.42	peak
4	11925.000	28.30	18.64	46.94	74.00	-27.06	peak
5	13875.000	26.95	23.26	50.21	74.00	-23.79	peak
6	17955.000	21.60	29.18	50.78	74.00	-23.22	peak

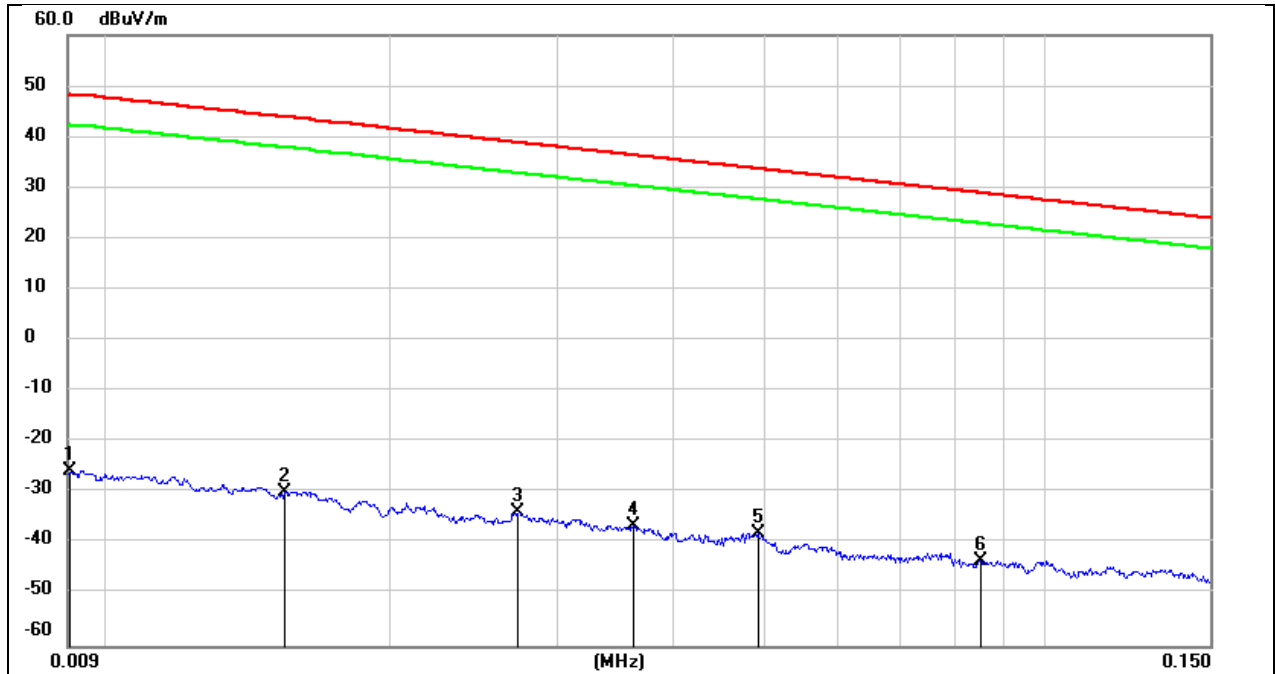
Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4890.000	52.43	1.82	54.25	74.00	-19.75	peak
2	4890.000	40.12	1.82	41.94	54.00	-12.06	AVG
3	7335.000	37.70	7.70	45.40	74.00	-28.60	peak
4	8985.000	38.41	10.53	48.94	74.00	-25.06	peak
5	12720.000	29.11	18.26	47.37	74.00	-26.63	peak
6	14010.000	27.40	22.20	49.60	74.00	-24.40	peak
7	16890.000	25.36	25.05	50.41	74.00	-23.59	peak

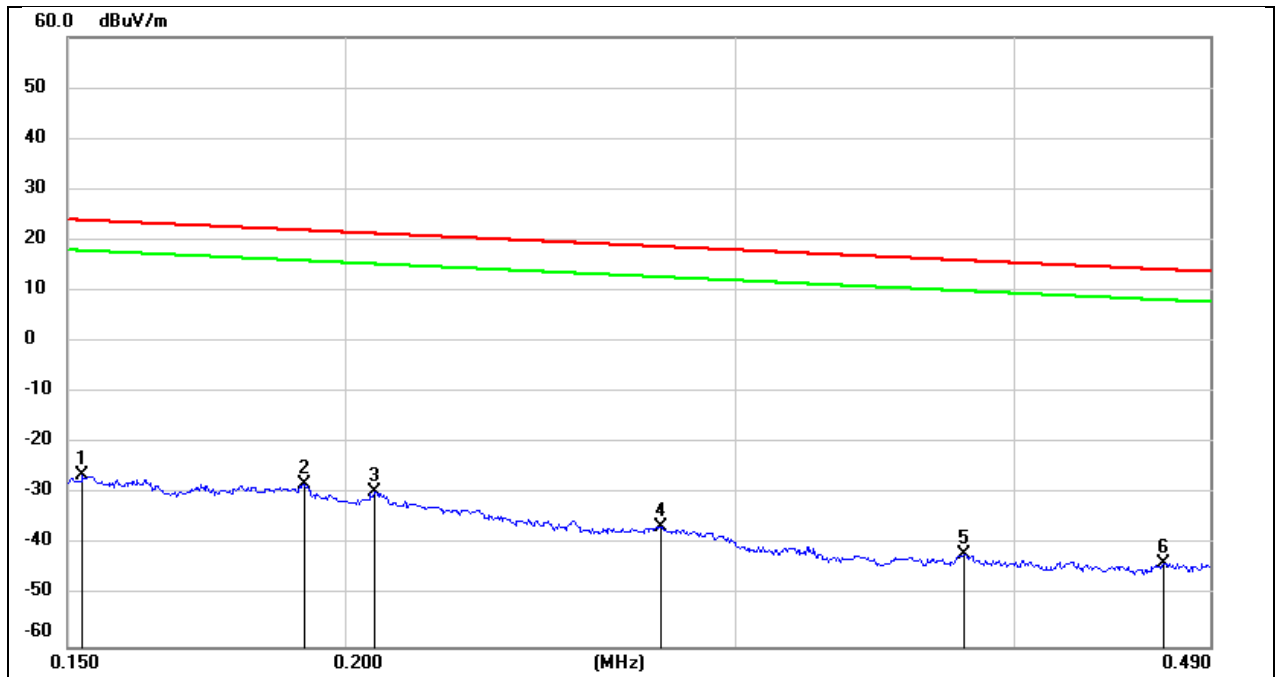
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

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



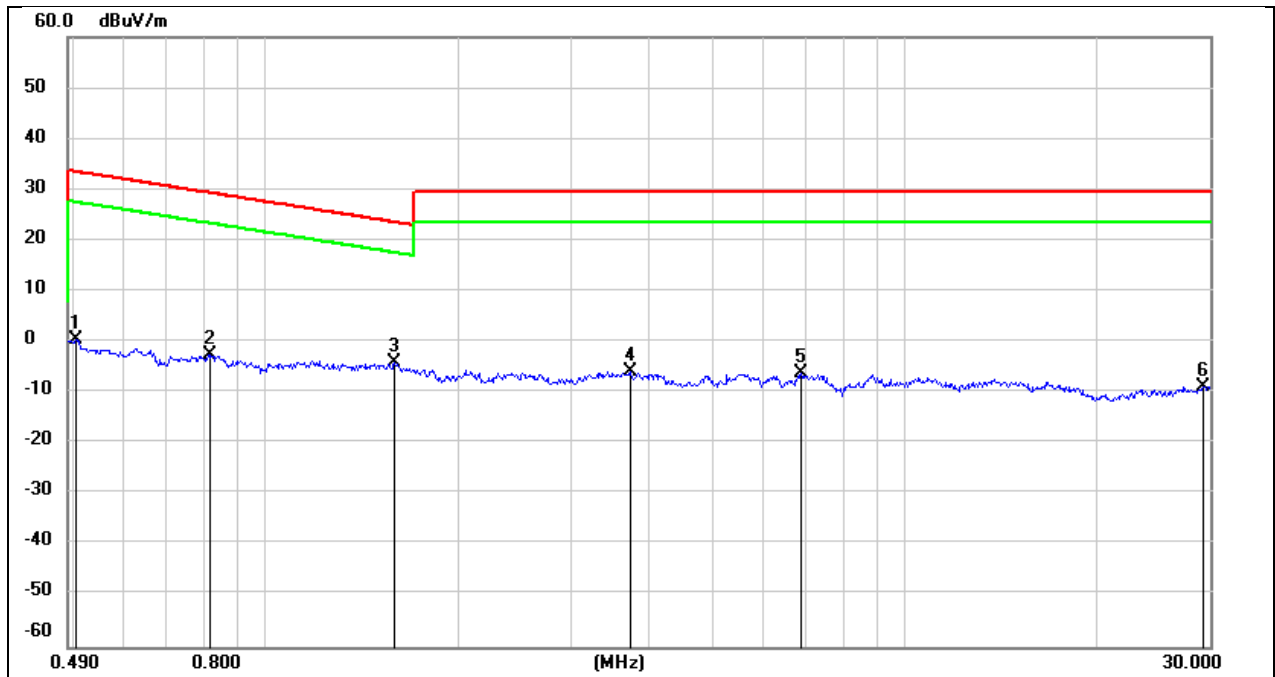
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0091	75.58	-101.33	-25.75	48.28	-74.03	peak
2	0.0154	71.49	-101.37	-29.88	43.85	-73.73	peak
3	0.0273	67.49	-101.38	-33.89	38.88	-72.77	peak
4	0.0362	65.01	-101.42	-36.41	36.43	-72.84	peak
5	0.0492	63.55	-101.47	-37.92	33.76	-71.68	peak
6	0.0854	58.35	-101.68	-43.33	28.97	-72.30	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1524	75.30	-101.63	-26.33	23.94	-50.27	peak
2	0.1917	73.54	-101.70	-28.16	21.95	-50.11	peak
3	0.2061	72.18	-101.73	-29.55	21.32	-50.87	peak
4	0.2775	65.39	-101.83	-36.44	18.74	-55.18	peak
5	0.3800	60.02	-101.94	-41.92	16.01	-57.93	peak
6	0.4667	58.44	-102.03	-43.59	14.22	-57.81	peak

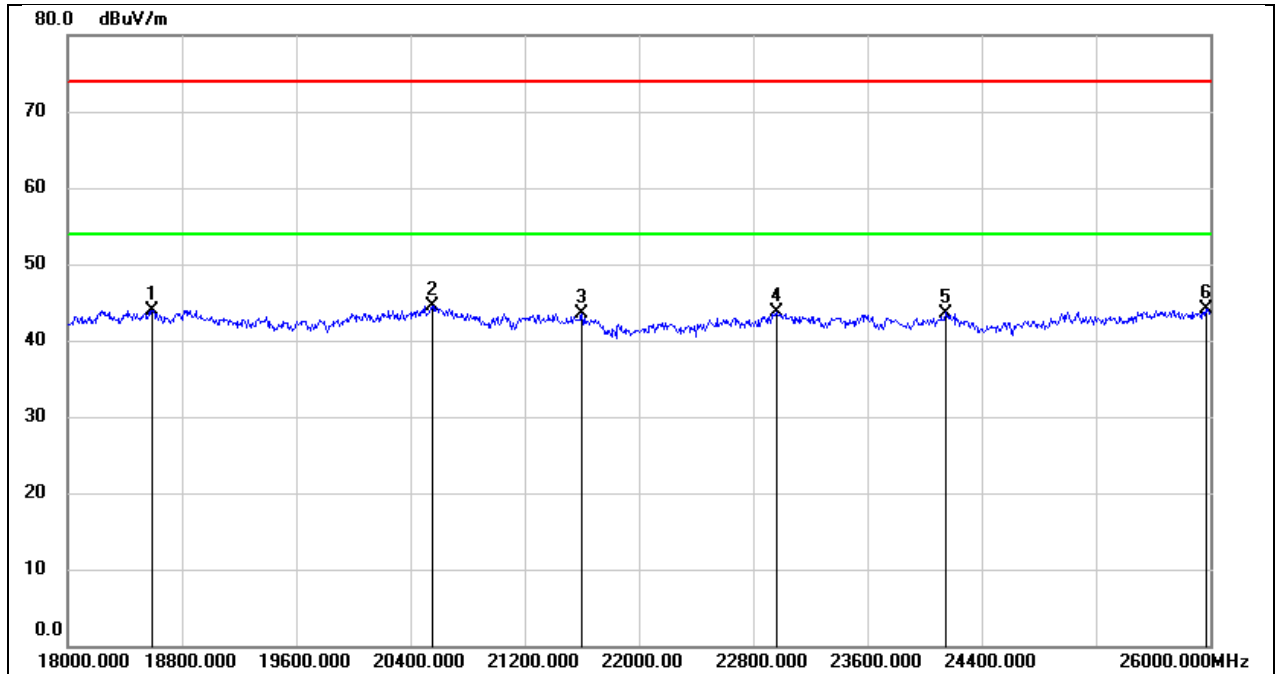
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5039	62.43	-62.07	0.36	33.56	-33.20	peak
2	0.8162	59.57	-62.16	-2.59	29.37	-31.96	peak
3	1.5887	57.81	-62.00	-4.19	23.58	-27.77	peak
4	3.7100	55.70	-61.41	-5.71	29.54	-35.25	peak
5	6.8936	55.09	-61.22	-6.13	29.54	-35.67	peak
6	29.3213	51.30	-60.02	-8.72	29.54	-38.26	peak

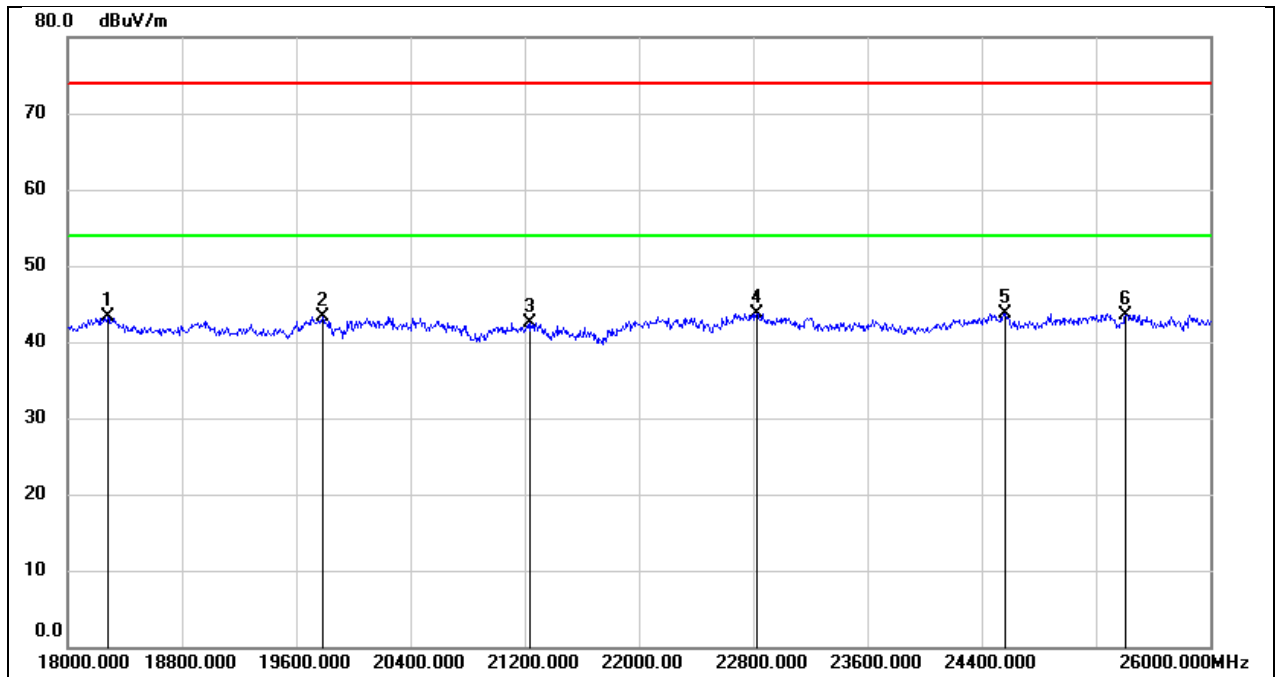
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18592.000	49.25	-5.31	43.94	74.00	-30.06	peak
2	20552.000	49.86	-5.30	44.56	74.00	-29.44	peak
3	21600.000	48.02	-4.54	43.48	74.00	-30.52	peak
4	22960.000	47.09	-3.48	43.61	74.00	-30.39	peak
5	24152.000	46.39	-2.80	43.59	74.00	-30.41	peak
6	25968.000	45.13	-1.00	44.13	74.00	-29.87	peak

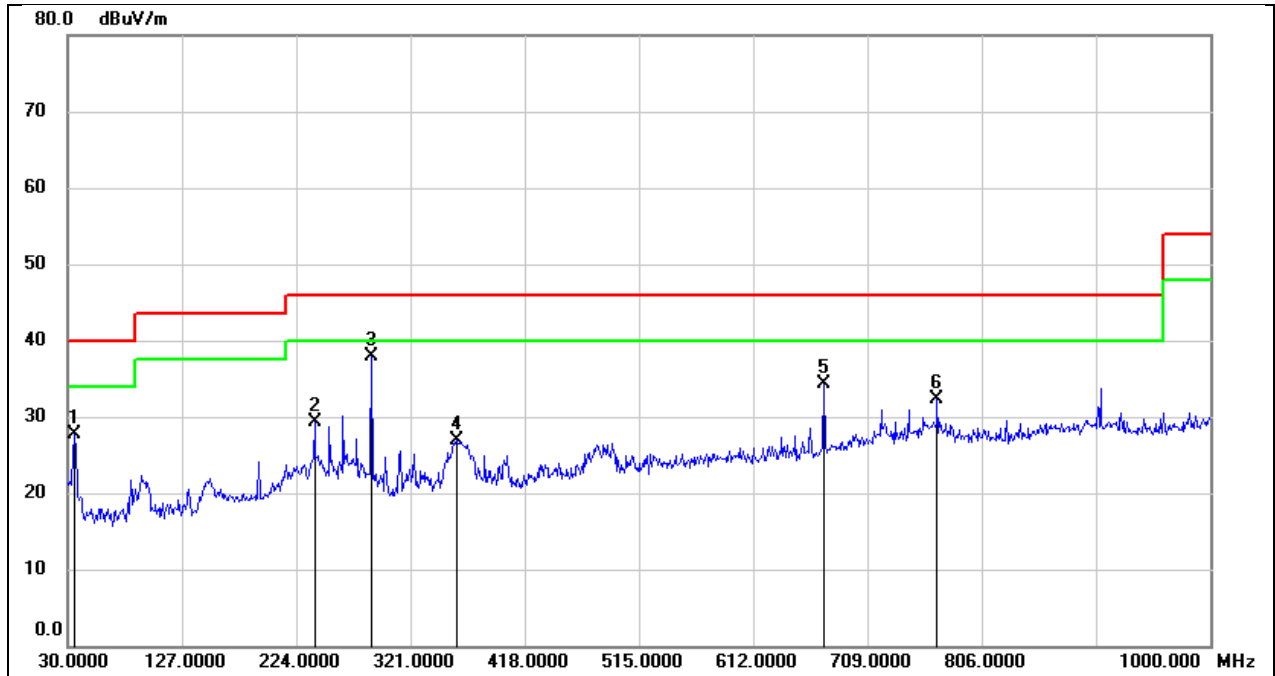
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18280.000	48.75	-5.52	43.23	74.00	-30.77	peak
2	19784.000	48.57	-5.28	43.29	74.00	-30.71	peak
3	21240.000	47.27	-4.77	42.50	74.00	-31.50	peak
4	22824.000	47.42	-3.62	43.80	74.00	-30.20	peak
5	24568.000	46.10	-2.33	43.77	74.00	-30.23	peak
6	25408.000	45.28	-1.73	43.55	74.00	-30.45	peak

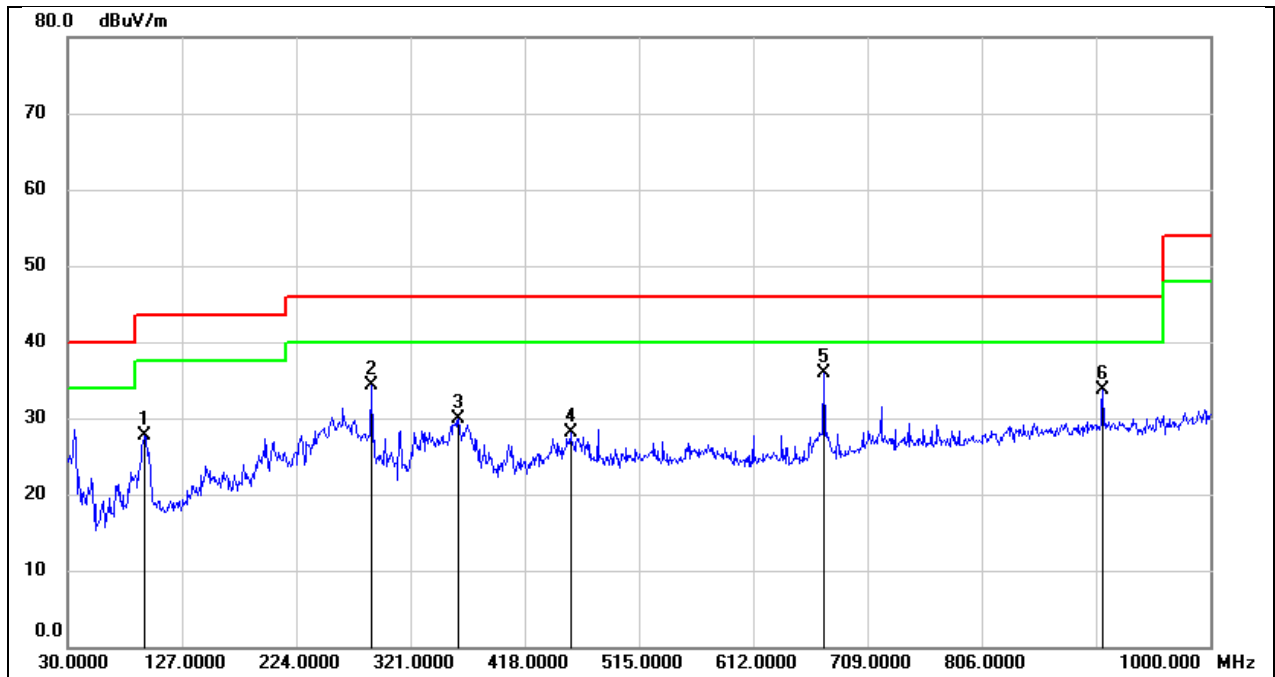
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

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	35.8200	42.01	-14.24	27.77	40.00	-12.23	QP
2	239.5200	42.59	-13.27	29.32	46.00	-16.68	QP
3	288.0200	49.29	-11.46	37.83	46.00	-8.17	QP
4	360.7700	35.37	-8.56	26.81	46.00	-19.19	QP
5	672.1400	38.13	-3.90	34.23	46.00	-11.77	QP
6	768.1700	33.45	-1.20	32.25	46.00	-13.75	QP

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

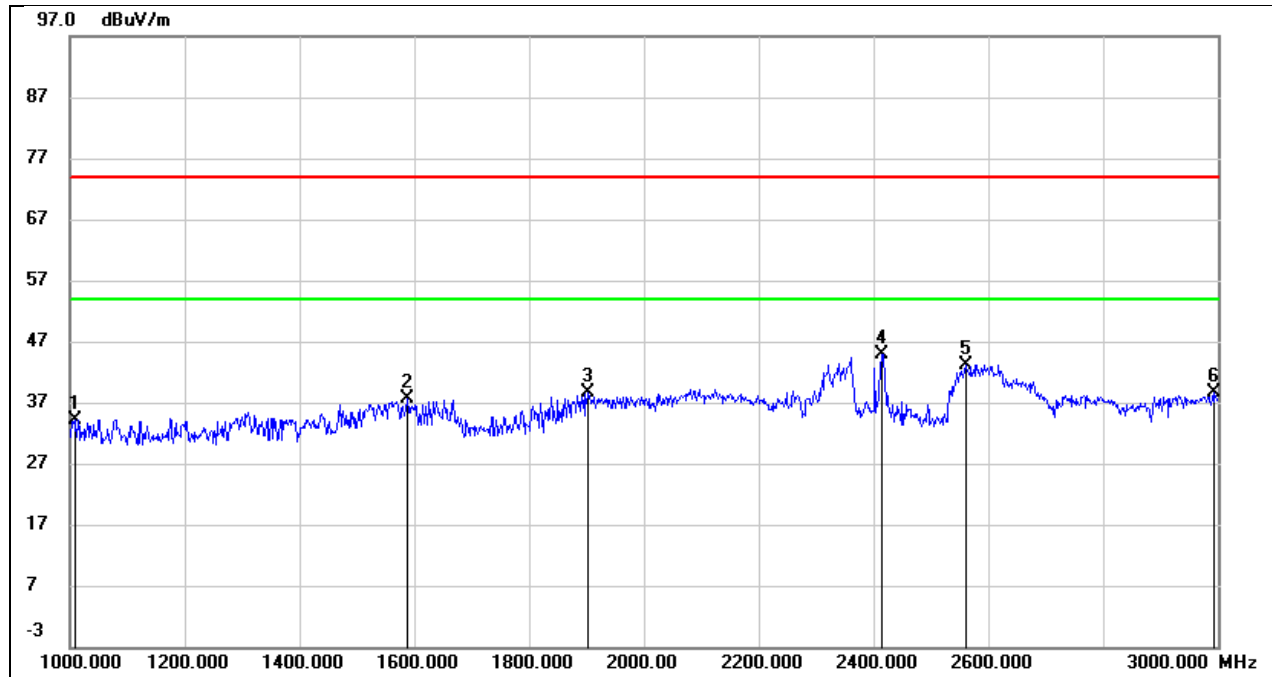


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	94.9900	43.58	-15.95	27.63	43.50	-15.87	QP
2	288.0200	45.82	-11.46	34.36	46.00	-11.64	QP
3	361.7400	38.39	-8.54	29.85	46.00	-16.15	QP
4	456.8000	35.18	-7.08	28.10	46.00	-17.90	QP
5	672.1400	39.72	-3.90	35.82	46.00	-10.18	QP
6	908.8200	33.55	0.08	33.63	46.00	-12.37	QP

8.7. SPURIOUS EMISSIONS FOR SIMULTANEOUS TRANSMISSION

SPURIOUS EMISSIONS (802.11n HT20 2.4GHz LOW CHANNEL & BLE 1M LOW CHANNEL & BT 8DPSK LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

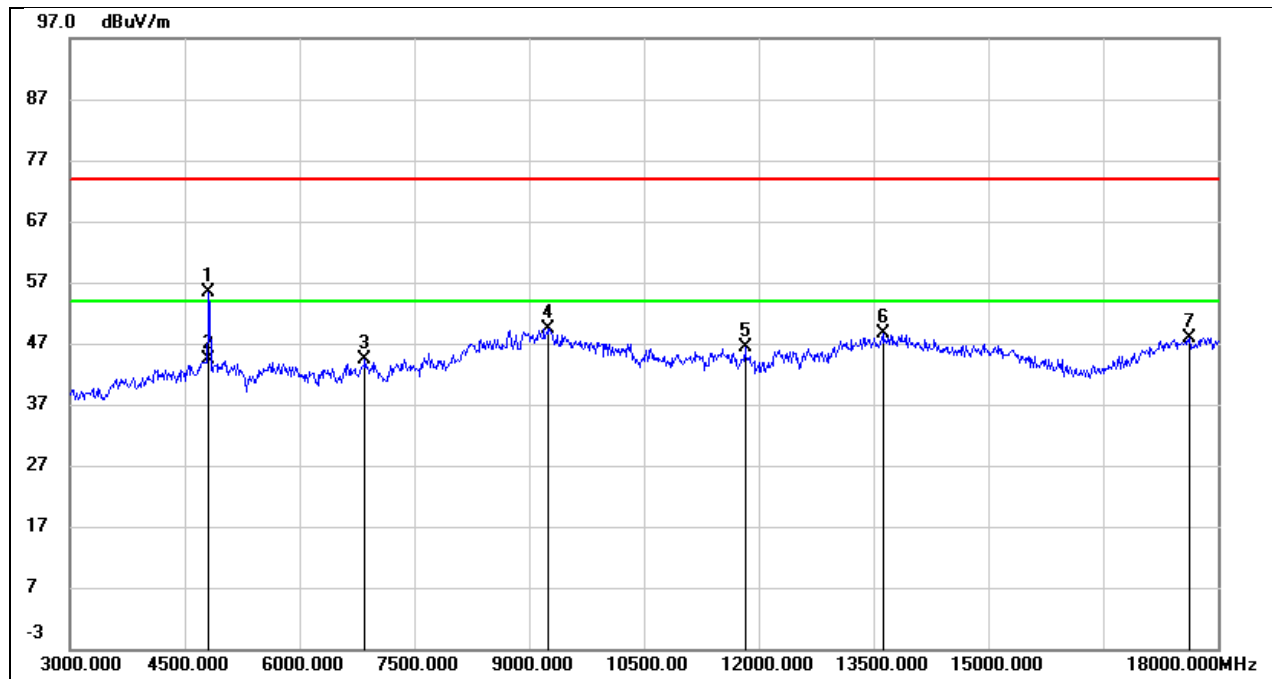
1-3 GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1008.000	48.54	-14.41	34.13	74.00	-39.87	peak
2	1588.000	48.98	-11.44	37.54	74.00	-36.46	peak
3	1902.000	48.74	-10.04	38.70	74.00	-35.30	peak
4	2412.000	53.51	-8.53	44.98	/	/	fundamental
5	2560.000	51.17	-7.93	43.24	74.00	-30.76	peak
6	2992.000	44.63	-6.04	38.59	74.00	-35.41	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.7.
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.

3-18 GHz

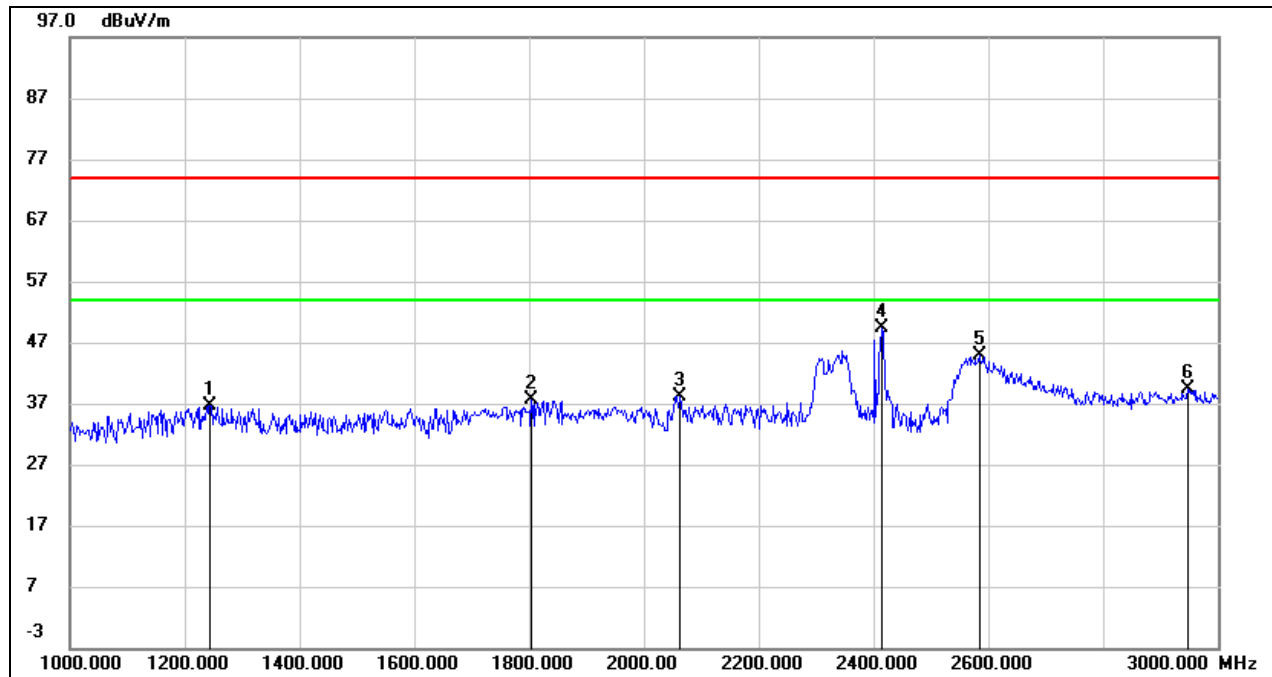


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	54.84	0.50	55.34	74.00	-18.66	peak
2	4815.000	43.97	0.50	44.47	54.00	-9.53	AVG
3	6855.000	38.25	6.01	44.26	74.00	-29.74	peak
4	9255.000	38.13	11.32	49.45	74.00	-24.55	peak
5	11820.000	27.77	18.51	46.28	74.00	-27.72	peak
6	13620.000	25.86	22.65	48.51	74.00	-25.49	peak
7	17625.000	21.56	26.33	47.89	74.00	-26.11	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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.

**SPURIOUS EMISSIONS (802.11n HT20 2.4GHz LOW CHANNEL & BLE 1M LOW CHANNEL
& BT 8DPSK LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**

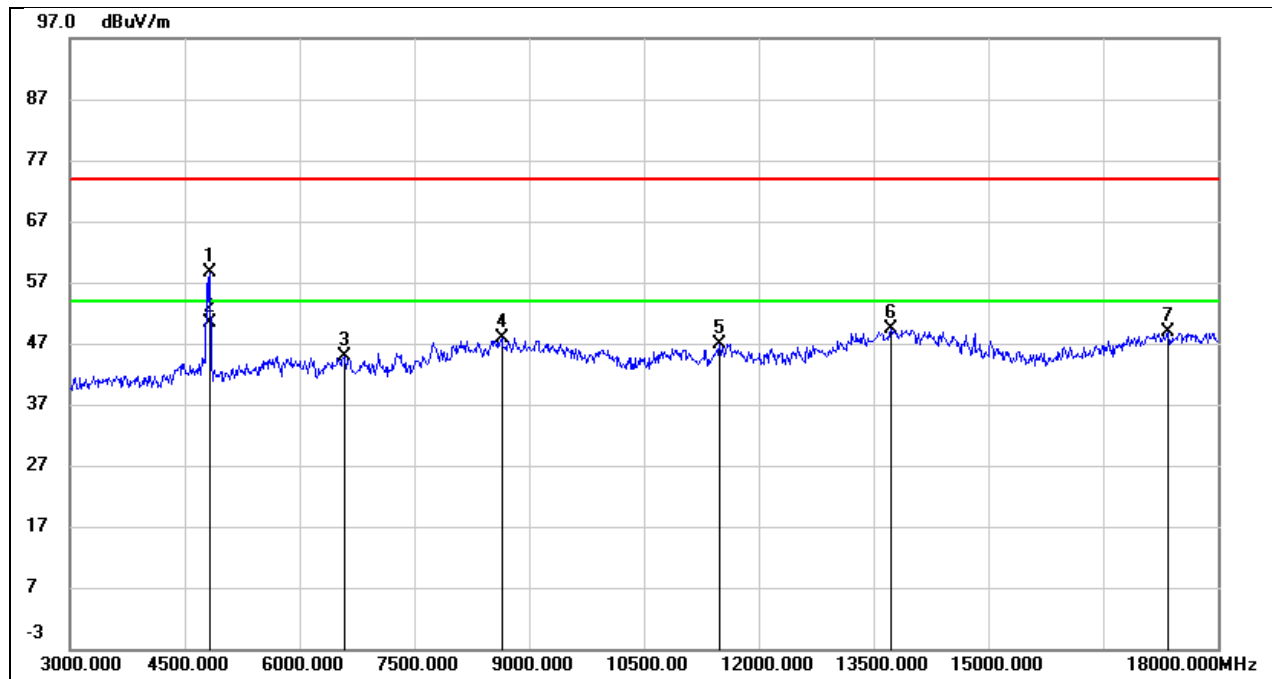
1-3 GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1244.000	49.51	-12.84	36.67	74.00	-37.33	peak
2	1804.000	47.00	-9.37	37.63	74.00	-36.37	peak
3	2062.000	47.21	-8.98	38.23	74.00	-35.77	peak
4	2412.000	57.11	-7.72	49.39	/	/	fundamental
5	2584.000	51.79	-6.95	44.84	74.00	-29.16	peak
6	2948.000	44.39	-5.00	39.39	74.00	-34.61	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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.

3-18 GHz

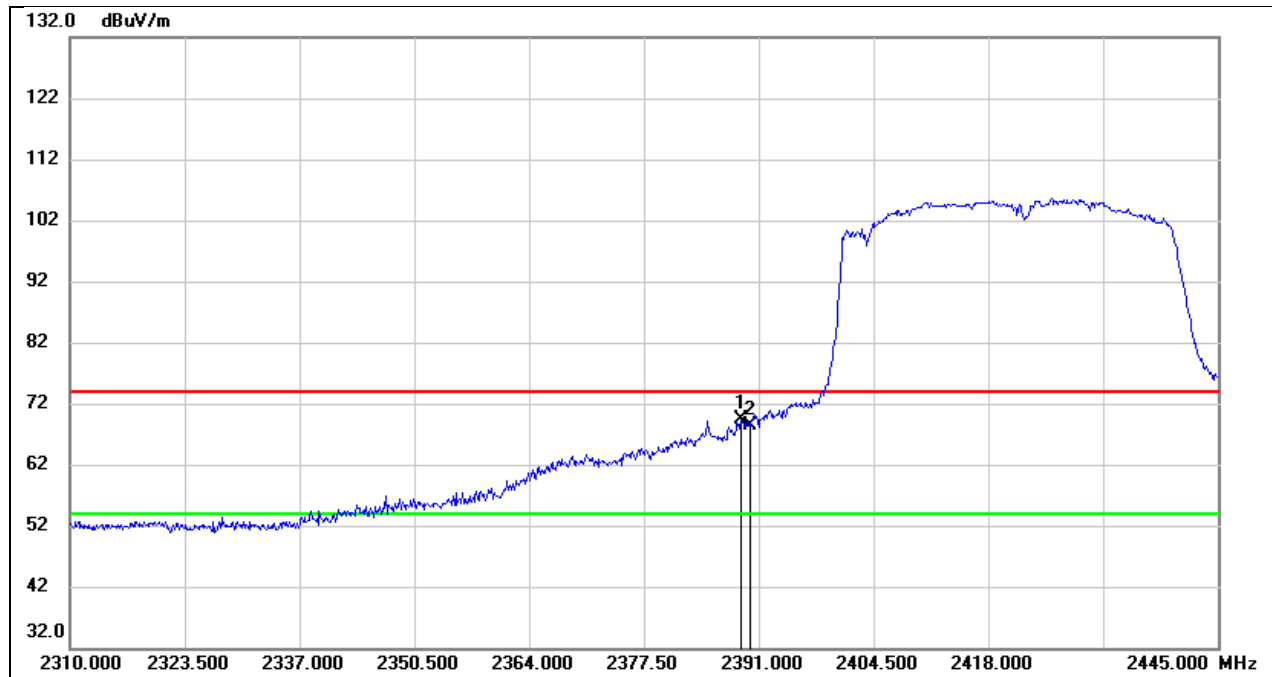


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	56.91	1.64	58.55	74.00	-15.45	peak
2	4830.000	48.84	1.64	50.48	54.00	-3.52	AVG
3	6585.000	39.14	5.82	44.96	74.00	-29.04	peak
4	8640.000	38.08	9.90	47.98	74.00	-26.02	peak
5	11490.000	30.53	16.45	46.98	74.00	-27.02	peak
6	13725.000	28.11	21.16	49.27	74.00	-24.73	peak
7	17340.000	23.60	25.37	48.97	74.00	-25.03	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} 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.

RESTRICTED BANDEDGE (802.11n HT20 2.4GHz LOW CHANNEL & BLE 1M LOW CHANNEL & BT 8DPSK LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

Peak

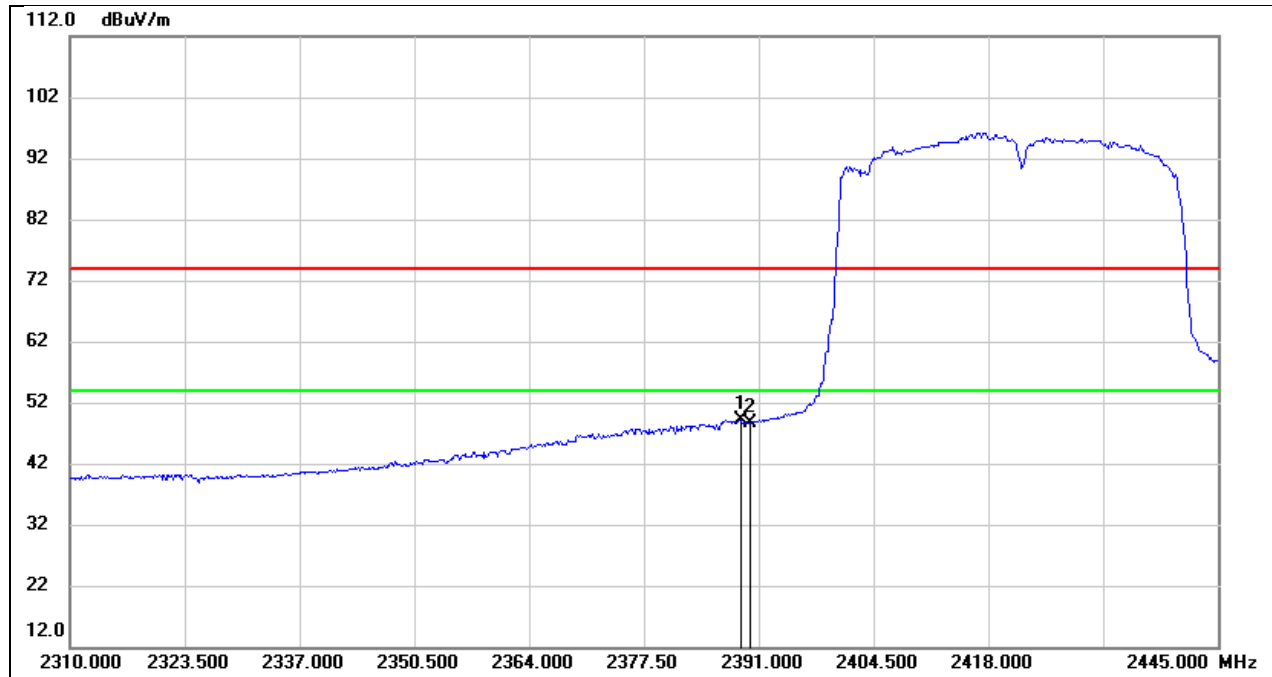


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.840	36.77	32.55	69.32	74.00	-4.68	peak
2	2390.000	35.78	32.55	68.33	74.00	-5.67	peak

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.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.840	16.54	32.55	49.09	54.00	-4.91	AVG
2	2390.000	16.14	32.55	48.69	54.00	-5.31	AVG

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 7.7.
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.

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).

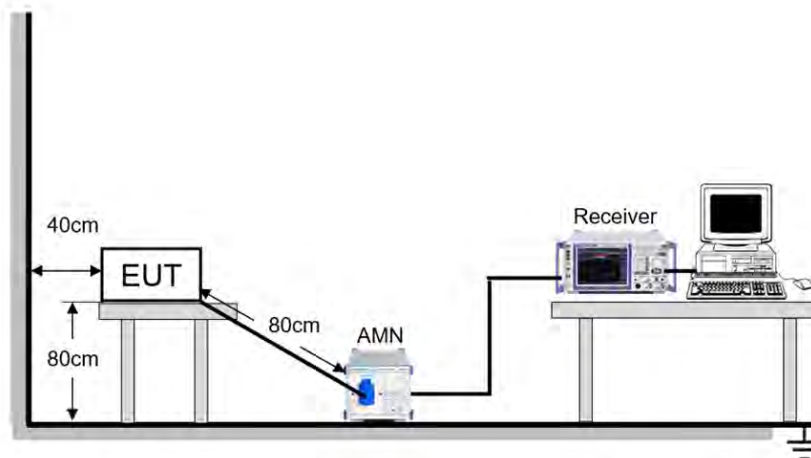
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

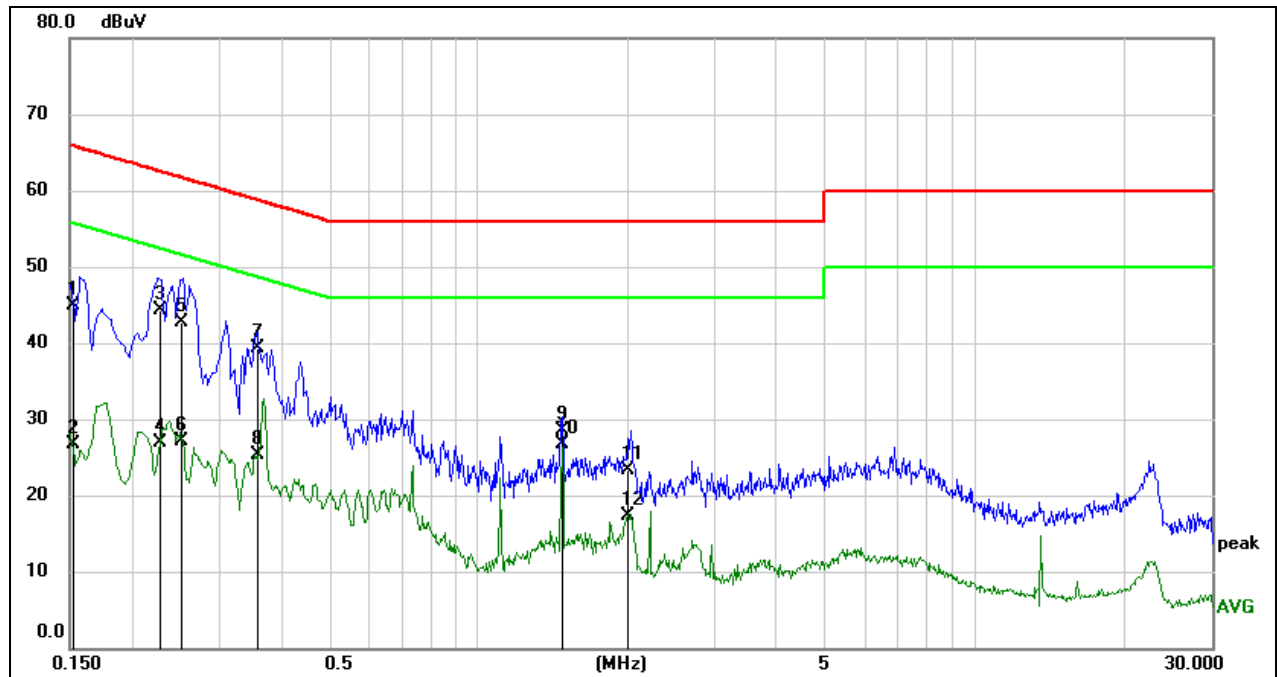
Temperature	23.4℃	Relative Humidity	52%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	January 11, 2025	Test By	Fanny Huang
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TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Line		



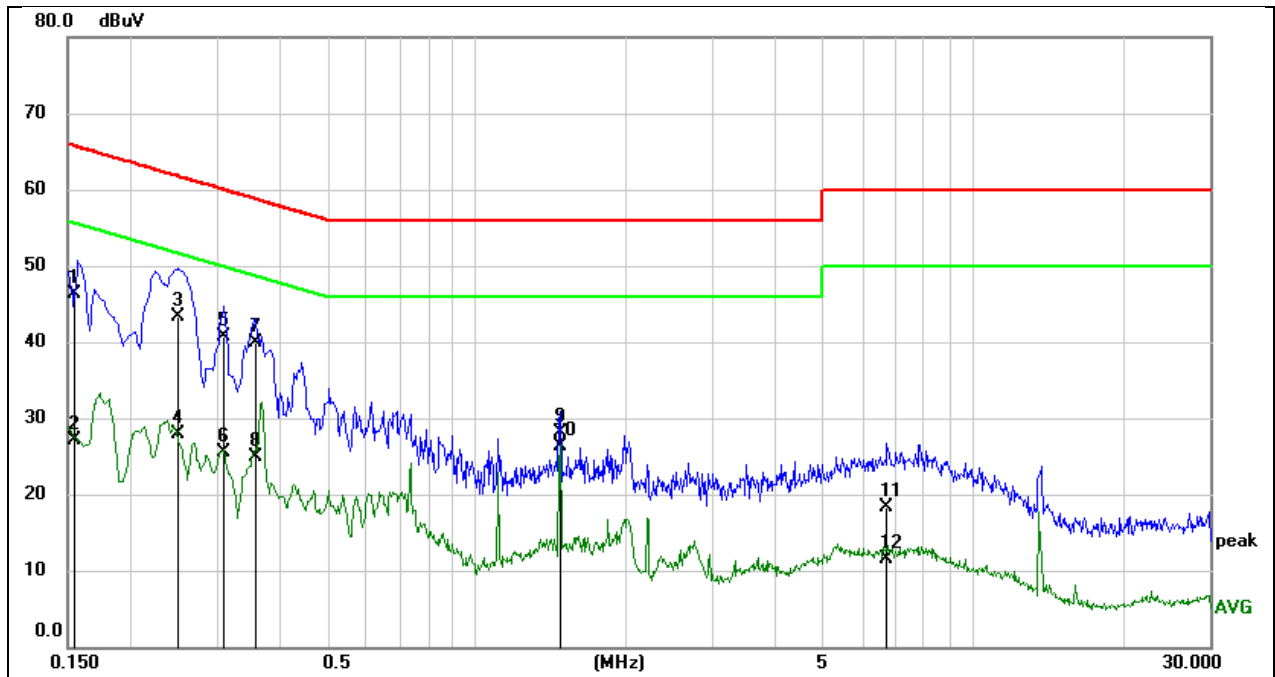
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1526	35.14	9.73	44.87	65.86	-20.99	QP
2	0.1526	16.91	9.73	26.64	55.86	-29.22	AVG
3	0.2289	34.59	9.64	44.23	62.49	-18.26	QP
4	0.2289	17.29	9.64	26.93	52.49	-25.56	AVG
5	0.2516	33.06	9.64	42.70	61.70	-19.00	QP
6	0.2516	17.55	9.64	27.19	51.70	-24.51	AVG
7	0.3585	29.66	9.64	39.30	58.76	-19.46	QP
8	0.3585	15.66	9.64	25.30	48.76	-23.46	AVG
9	1.4745	18.76	9.69	28.45	56.00	-27.55	QP
10	1.4745	17.03	9.69	26.72	46.00	-19.28	AVG
11	2.0212	13.56	9.74	23.30	56.00	-32.70	QP
12	2.0212	7.53	9.74	17.27	46.00	-28.73	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:	802.11b	Frequency(MHz):	2412
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1547	36.75	9.64	46.39	65.74	-19.35	QP
2	0.1547	17.56	9.64	27.20	55.74	-28.54	AVG
3	0.2493	33.76	9.64	43.40	61.78	-18.38	QP
4	0.2493	18.18	9.64	27.82	51.78	-23.96	AVG
5	0.3088	31.14	9.64	40.78	60.00	-19.22	QP
6	0.3088	15.85	9.64	25.49	50.00	-24.51	AVG
7	0.3591	30.17	9.64	39.81	58.75	-18.94	QP
8	0.3591	15.17	9.64	24.81	48.75	-23.94	AVG
9	1.4736	18.50	9.64	28.14	56.00	-27.86	QP
10	1.4736	16.73	9.64	26.37	46.00	-19.63	AVG
11	6.7610	8.55	9.72	18.27	60.00	-41.73	QP
12	6.7610	1.81	9.72	11.53	50.00	-38.47	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	8.360	2407.480	2415.840	≥ 0.5	PASS
		2437	9.040	2432.480	2441.520	≥ 0.5	PASS
		2462	9.640	2456.960	2466.600	≥ 0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	≥ 0.5	PASS
		2437	16.360	2428.800	2445.160	≥ 0.5	PASS
		2462	16.360	2453.800	2470.160	≥ 0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.600	2420.520	≥ 0.5	PASS
		2437	17.600	2428.200	2445.800	≥ 0.5	PASS
		2462	17.120	2453.400	2470.520	≥ 0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	≥ 0.5	PASS
		2437	35.040	2419.480	2454.520	≥ 0.5	PASS
		2452	34.400	2434.720	2469.120	≥ 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]
11B	Ant1	2412	13.103	2405.4398	2418.5428
		2437	13.045	2430.4855	2443.5305
		2462	13.022	2455.4691	2468.4911
11G	Ant1	2412	16.825	2403.6080	2420.4330
		2437	16.871	2428.5853	2445.4563
		2462	16.842	2453.5891	2470.4311
11N20SISO	Ant1	2412	17.597	2403.2081	2420.8051
		2437	17.569	2428.2243	2445.7933
		2462	17.544	2453.2397	2470.7837
11N40SISO	Ant1	2422	35.855	2404.1116	2439.9666
		2437	35.919	2419.1311	2455.0501
		2452	35.917	2434.0919	2470.0089

11.2.2. Test Graphs









11.3. APPENDIX C: MAXIMUM CONDUCTED AVG OUTPUT POWER

11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	12.73	≤29.00	PASS
		2437	12.05	≤29.00	PASS
		2462	12.63	≤29.00	PASS
11G	Ant1	2412	16.54	≤29.00	PASS
		2437	16.88	≤29.00	PASS
		2462	15.57	≤29.00	PASS
11N20SISO	Ant1	2412	16.59	≤29.00	PASS
		2437	16.37	≤29.00	PASS
		2462	15.70	≤29.00	PASS
11N40SISO	Ant1	2422	12.86	≤29.00	PASS
		2437	12.49	≤29.00	PASS
		2452	12.75	≤29.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

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

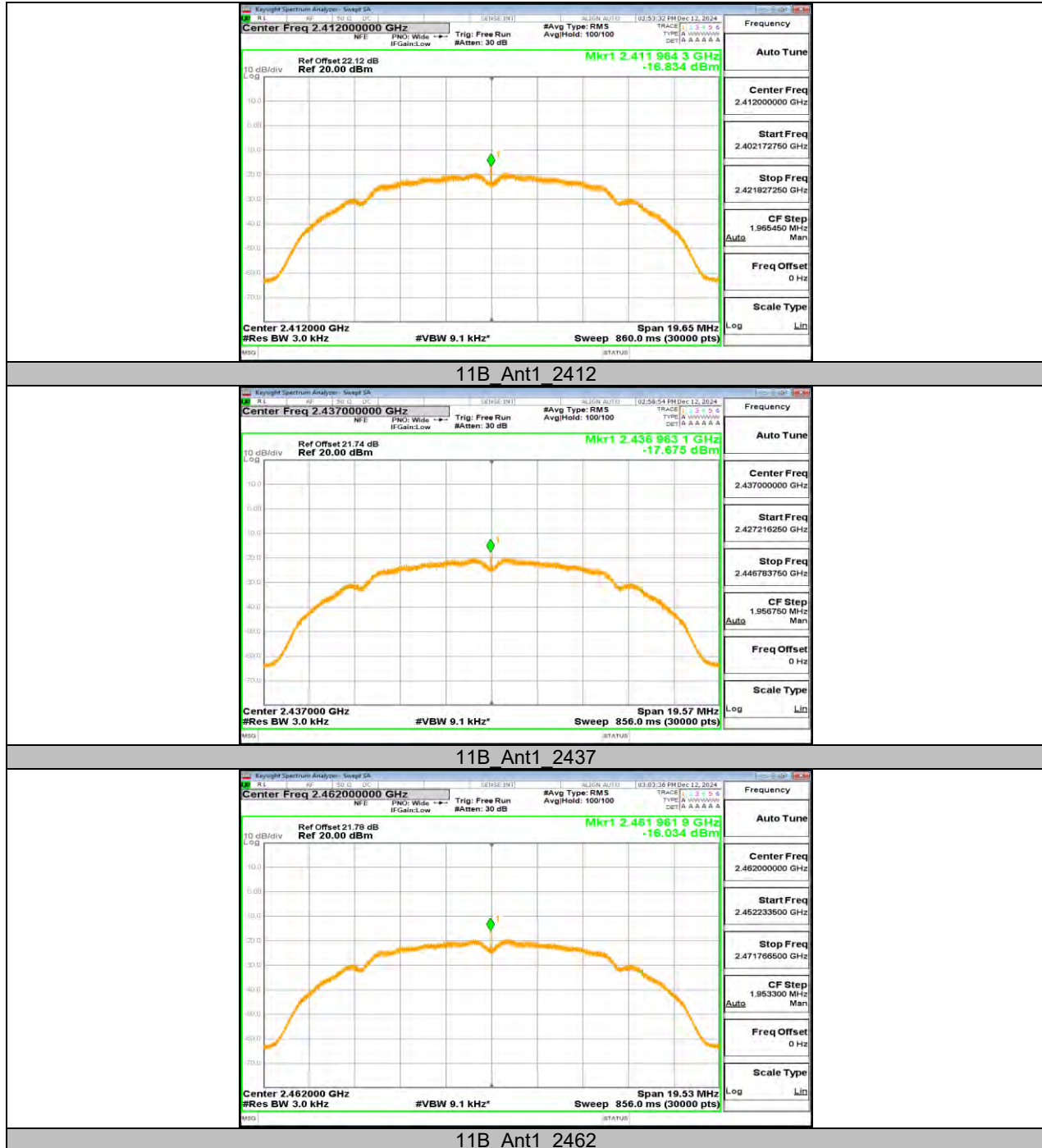
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

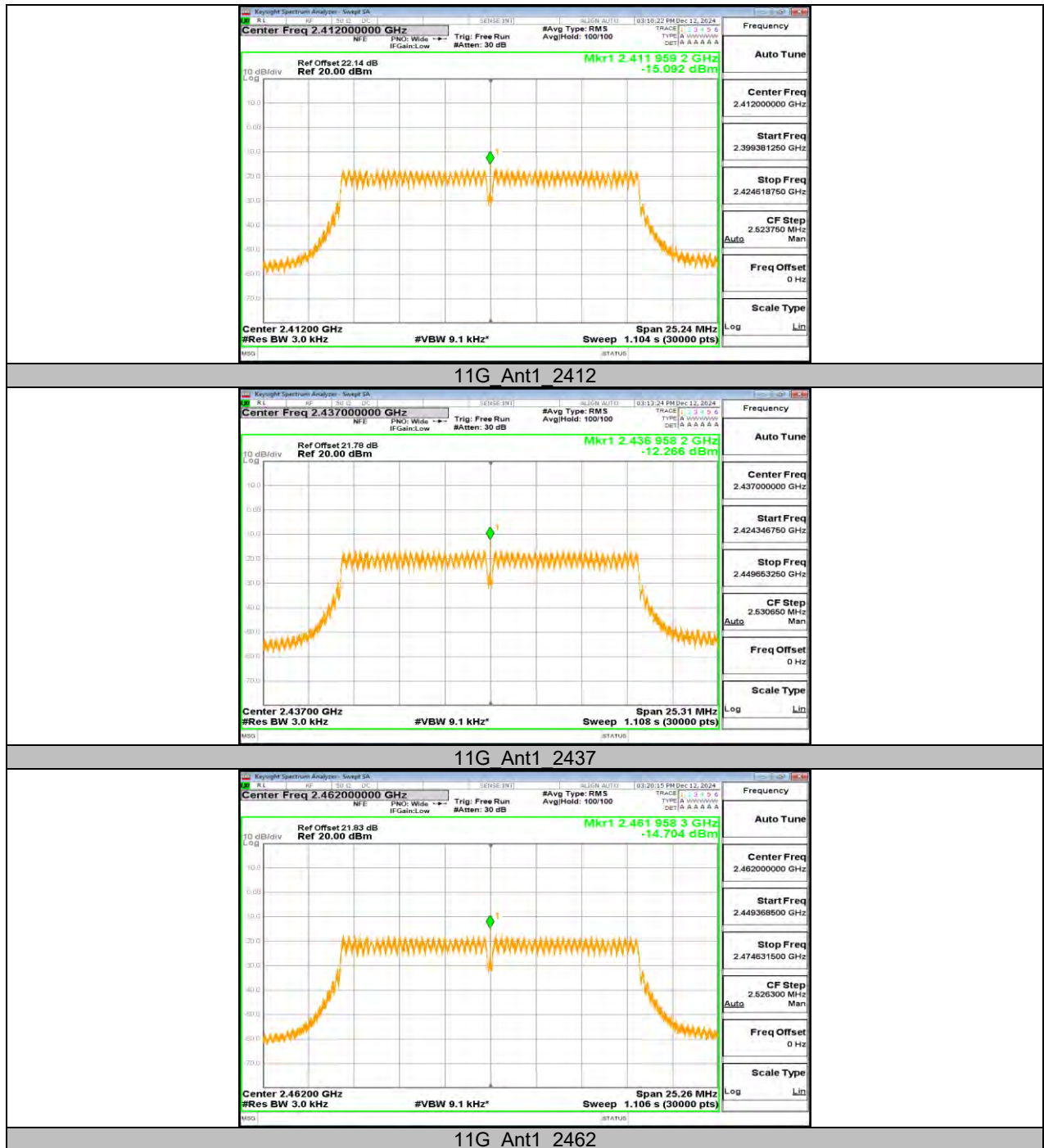
11.4.1. Test Result

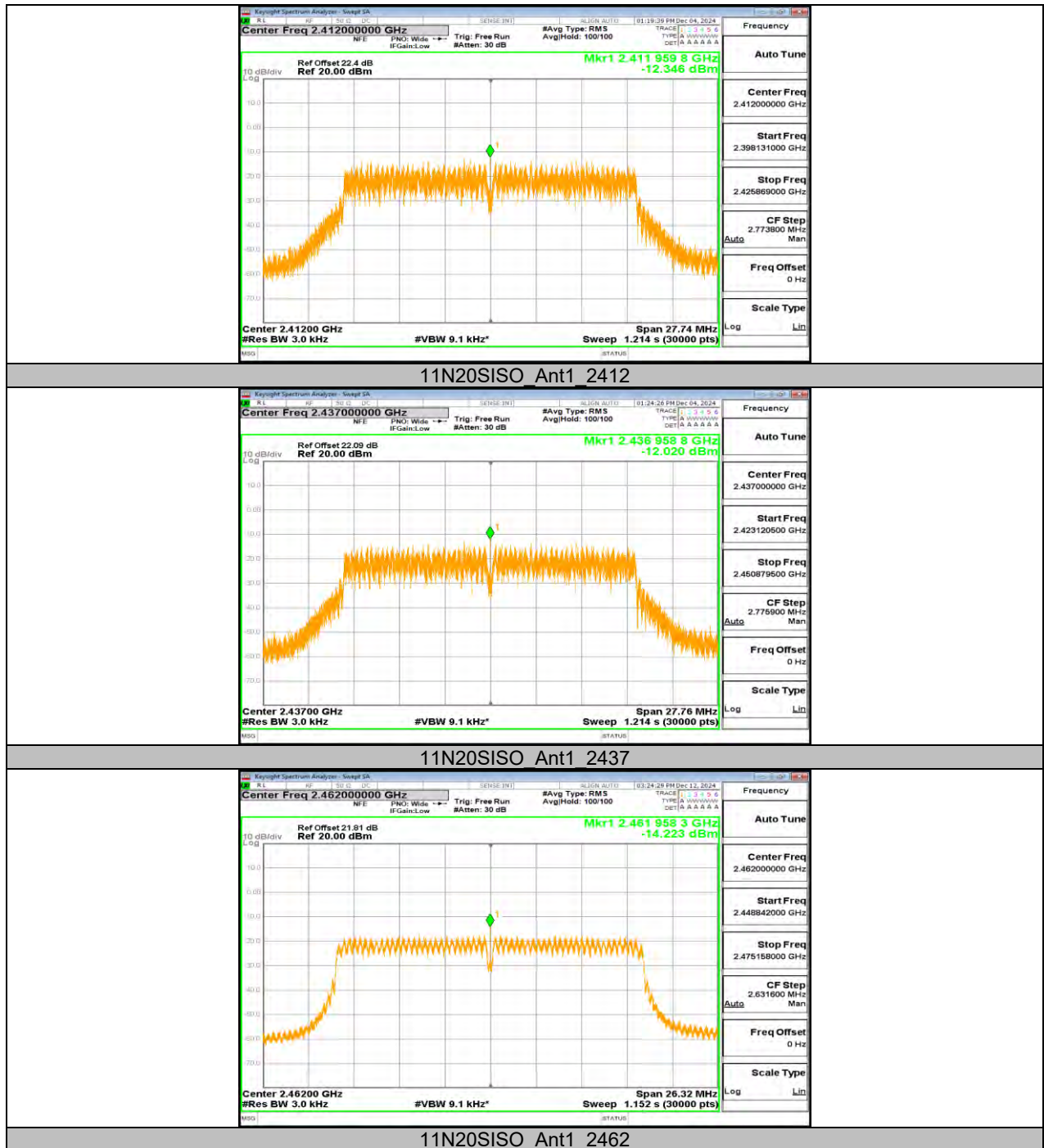
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.83	≤8.00	PASS
		2437	-17.68	≤8.00	PASS
		2462	-16.03	≤8.00	PASS
11G	Ant1	2412	-15.09	≤8.00	PASS
		2437	-12.27	≤8.00	PASS
		2462	-14.70	≤8.00	PASS
11N20SISO	Ant1	2412	-12.35	≤8.00	PASS
		2437	-12.02	≤8.00	PASS
		2462	-14.22	≤8.00	PASS
11N40SISO	Ant1	2422	-16.87	≤8.00	PASS
		2437	-17.10	≤8.00	PASS
		2452	-17.62	≤8.00	PASS

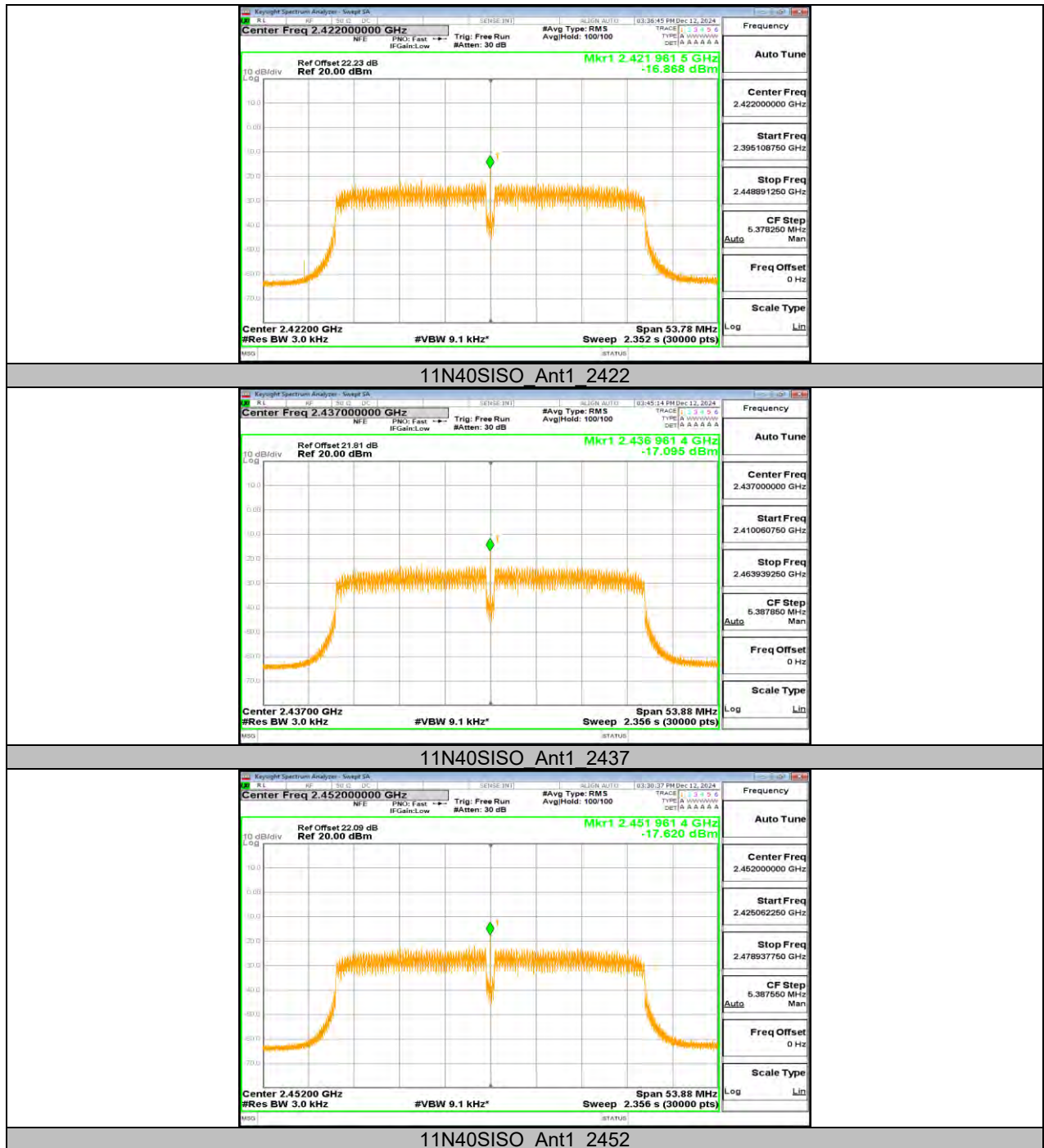
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

11.4.2. Test Graphs







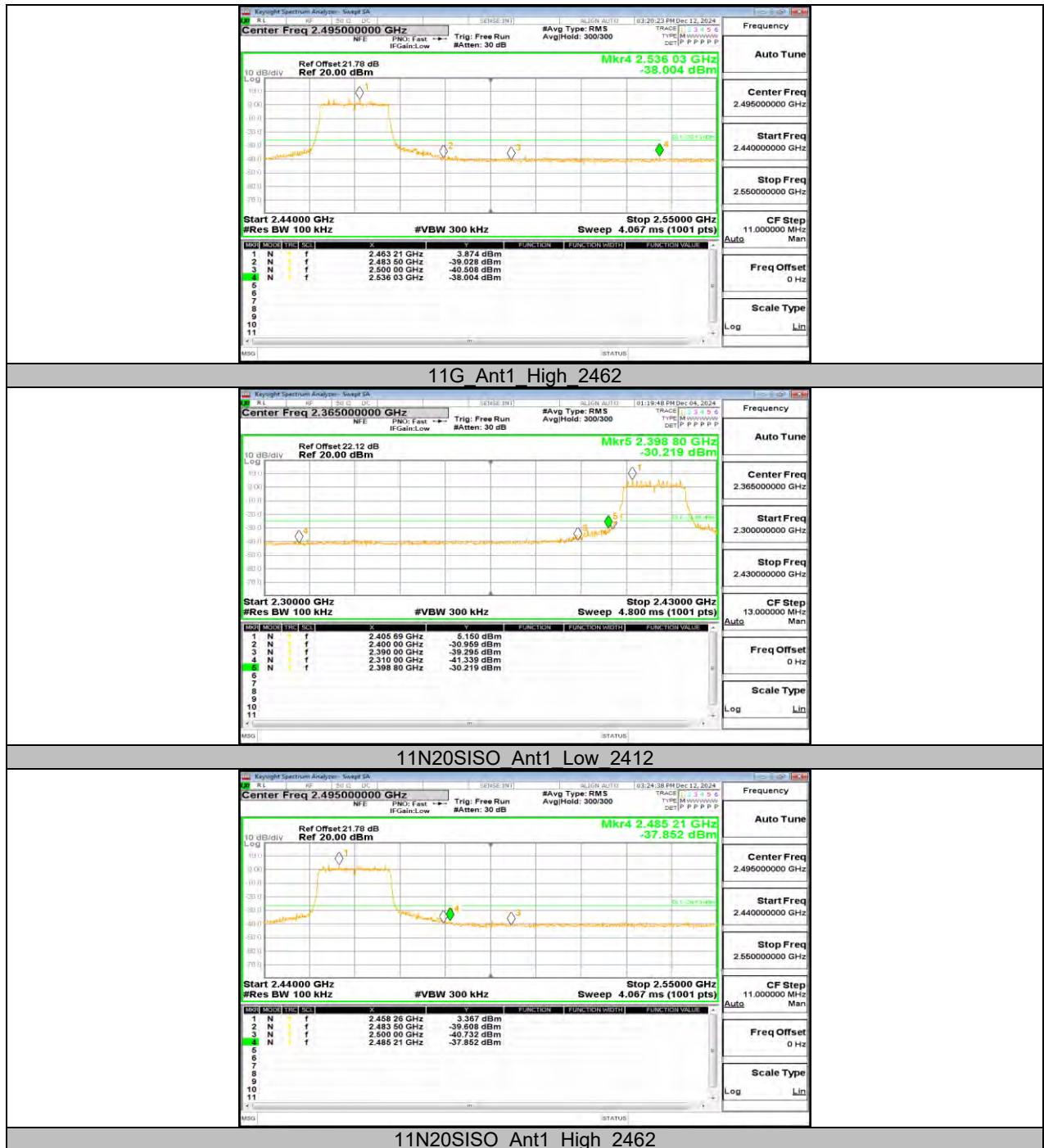


11.5. APPENDIX E: BAND EDGE MEASUREMENTS**11.5.1. Test Result**

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.28	-38.61	≤-25.72	PASS
		High	2462	3.62	-38.73	≤-26.38	PASS
11G	Ant1	Low	2412	4.34	-29.91	≤-25.66	PASS
		High	2462	3.87	-38	≤-26.13	PASS
11N20SISO	Ant1	Low	2412	5.15	-30.22	≤-24.85	PASS
		High	2462	3.37	-37.85	≤-26.63	PASS
11N40SISO	Ant1	Low	2422	-1.15	-37.25	≤-31.15	PASS
		High	2452	-1.72	-37.85	≤-31.72	PASS

11.5.2. Test Graphs





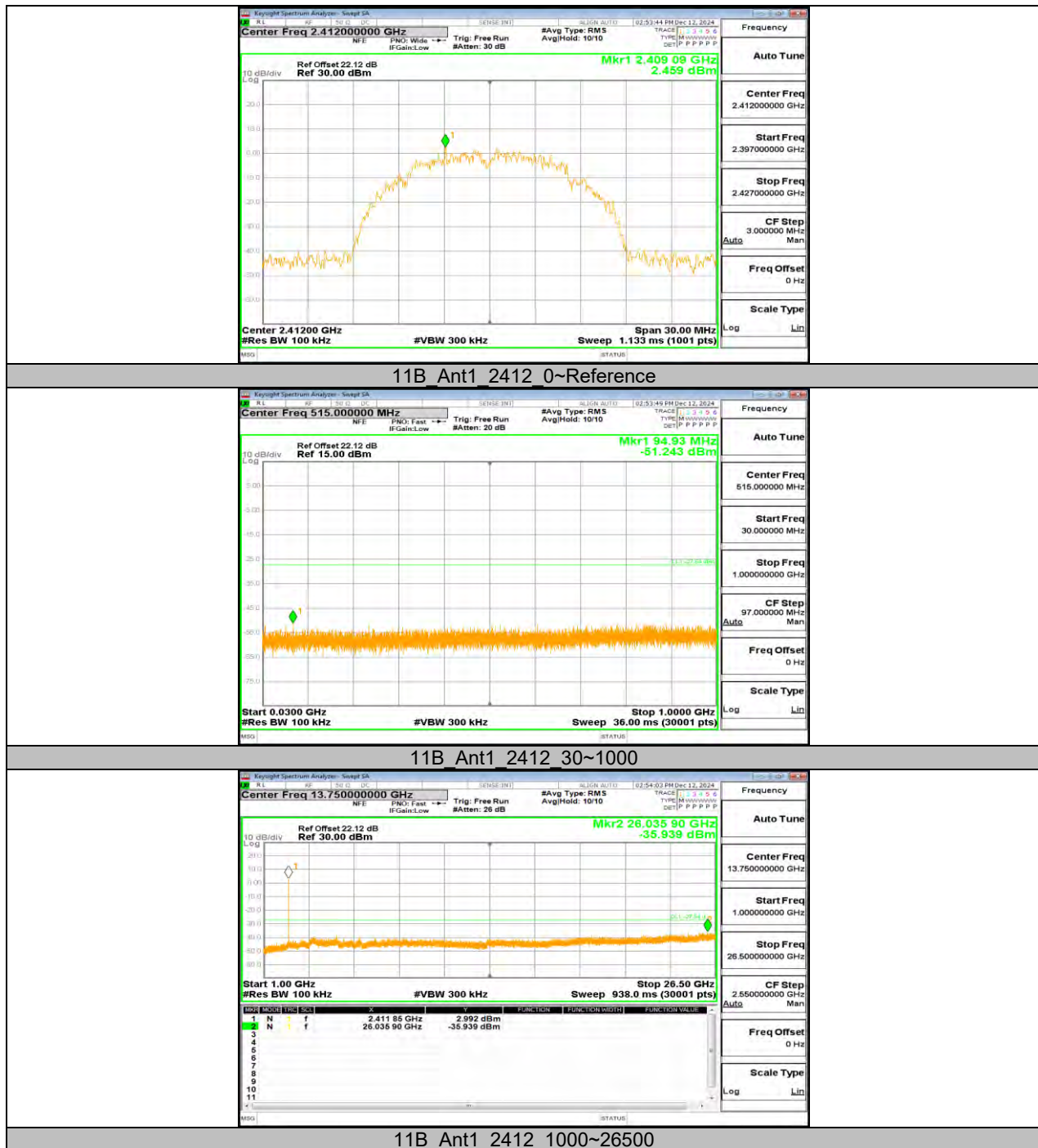


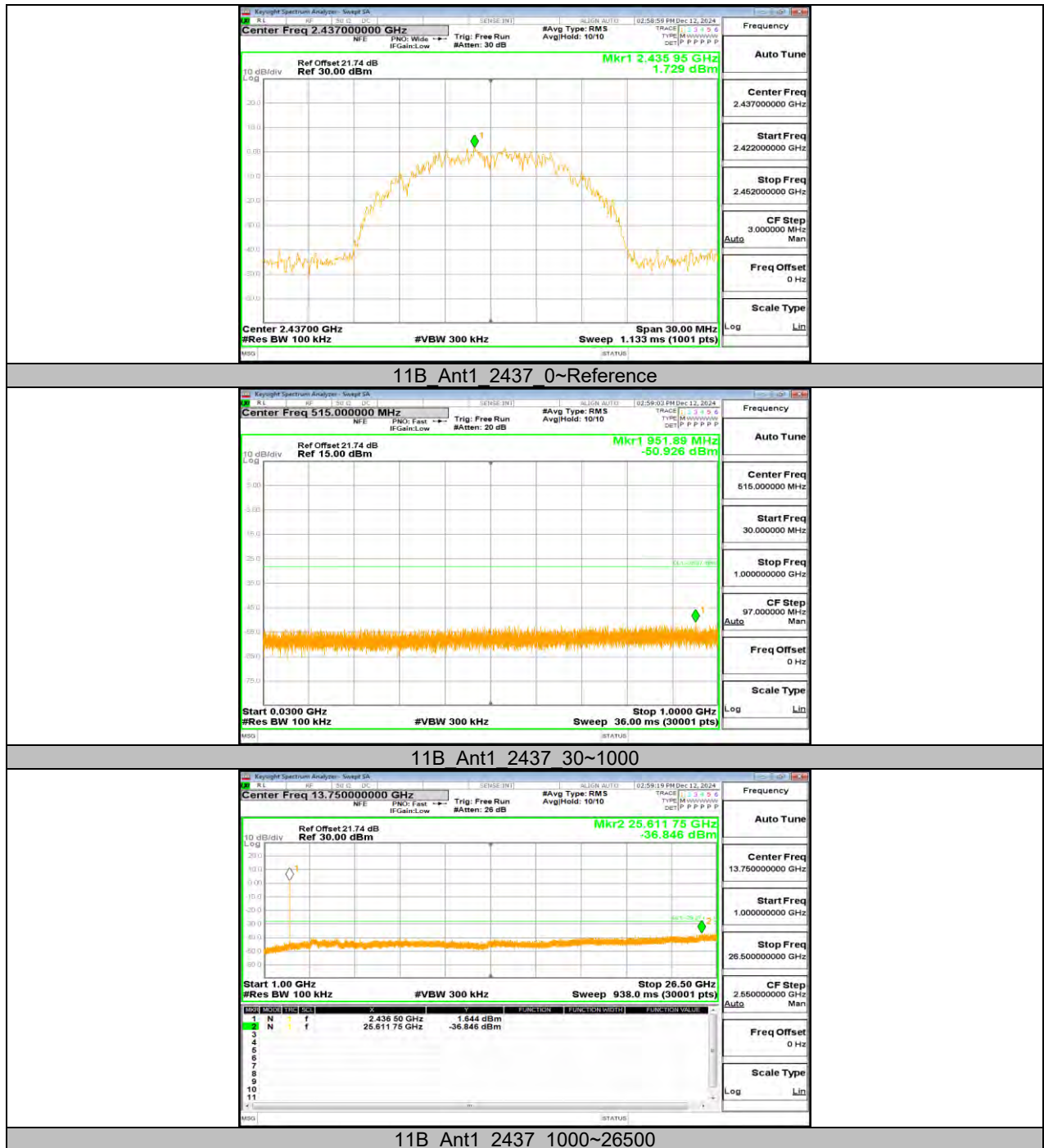
11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

11.6.1. Test Result

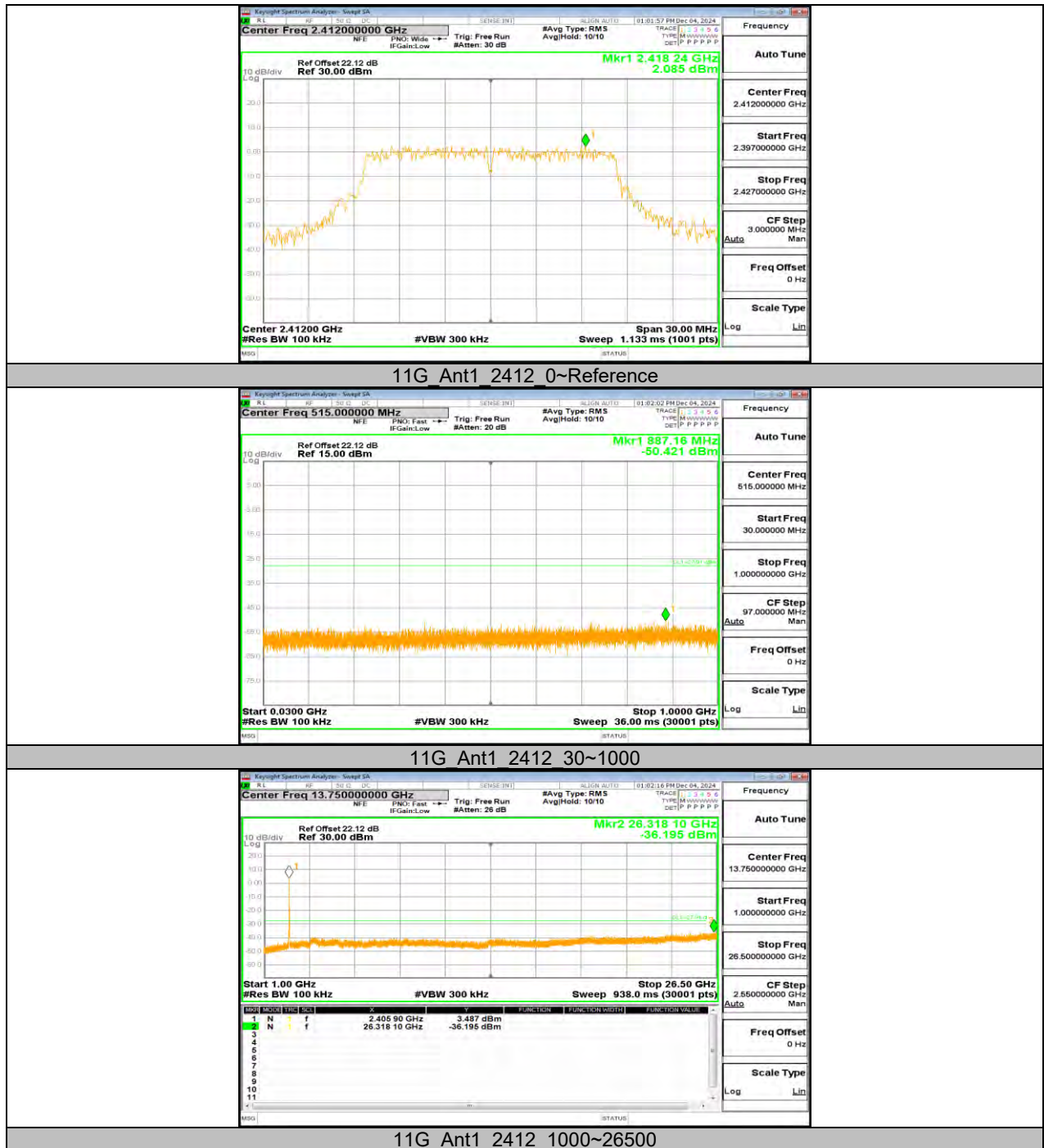
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.46	---	PASS
			30~1000	-51.24	≤ -27.54	PASS
			1000~26500	-35.94	≤ -27.54	PASS
		2437	Reference	1.73	---	PASS
			30~1000	-50.93	≤ -28.27	PASS
			1000~26500	-36.85	≤ -28.27	PASS
		2462	Reference	2.13	---	PASS
			30~1000	-51.12	≤ -27.87	PASS
			1000~26500	-35.82	≤ -27.87	PASS
11G	Ant1	2412	Reference	2.09	---	PASS
			30~1000	-50.42	≤ -27.91	PASS
			1000~26500	-36.2	≤ -27.91	PASS
		2437	Reference	2.53	---	PASS
			30~1000	-50.32	≤ -27.47	PASS
			1000~26500	-36.68	≤ -27.47	PASS
		2462	Reference	2.97	---	PASS
			30~1000	-50.78	≤ -27.03	PASS
			1000~26500	-35.72	≤ -27.03	PASS
11N20SISO	Ant1	2412	Reference	1.27	---	PASS
			30~1000	-50.26	≤ -28.73	PASS
			1000~26500	-36.37	≤ -28.73	PASS
		2437	Reference	1.38	---	PASS
			30~1000	-50.7	≤ -28.62	PASS
			1000~26500	-35.72	≤ -28.62	PASS
		2462	Reference	1.39	---	PASS
			30~1000	-51.04	≤ -28.61	PASS
			1000~26500	-35.97	≤ -28.61	PASS
11N40SISO	Ant1	2422	Reference	-0.76	---	PASS
			30~1000	-50.3	≤ -30.76	PASS
			1000~26500	-36.07	≤ -30.76	PASS
		2437	Reference	-1.97	---	PASS
			30~1000	-50.75	≤ -31.97	PASS
			1000~26500	-36.45	≤ -31.97	PASS
		2452	Reference	-4.78	---	PASS
			30~1000	-49.73	≤ -34.78	PASS
			1000~26500	-36	≤ -34.78	PASS

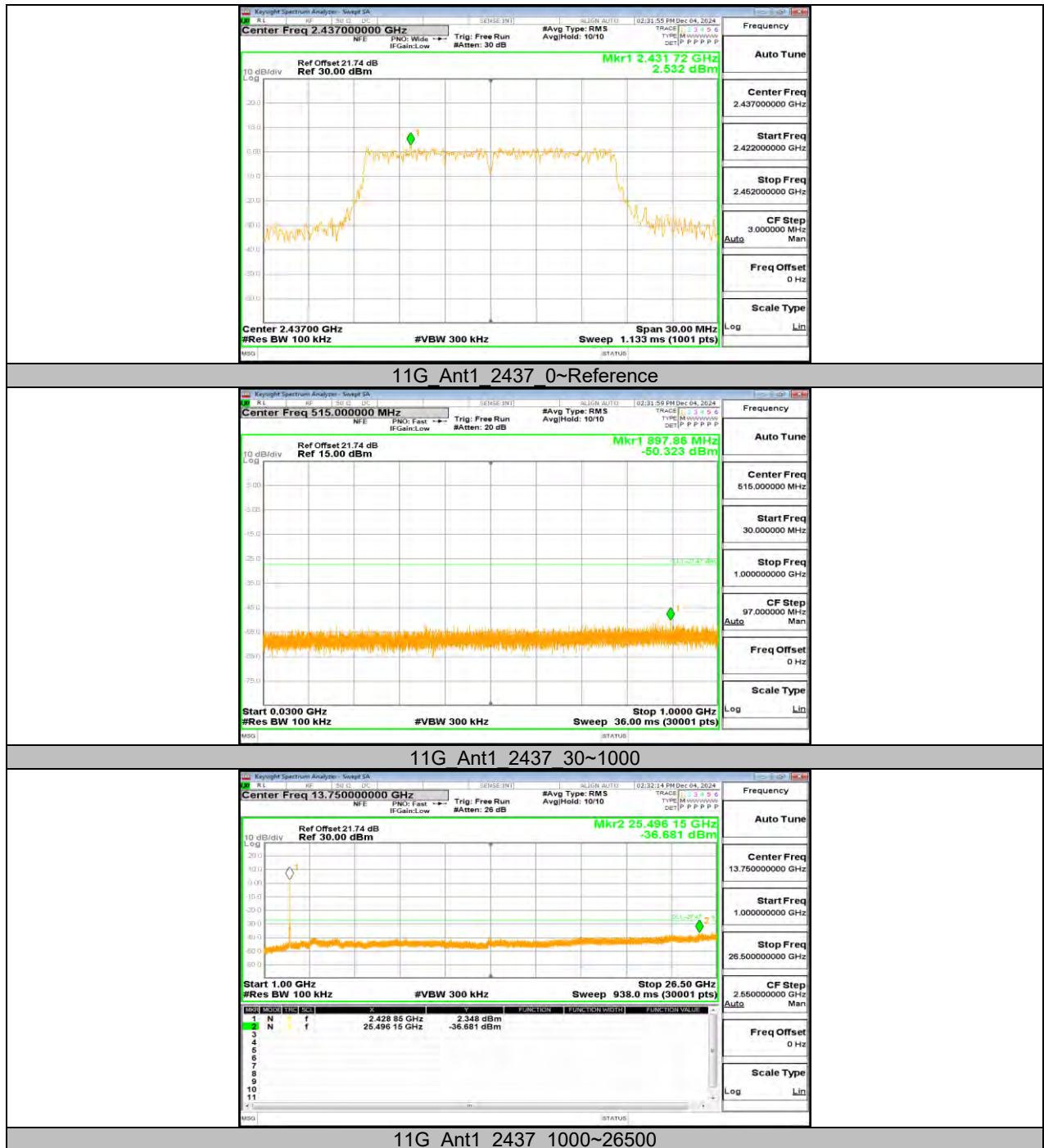
11.6.2. Test Graphs

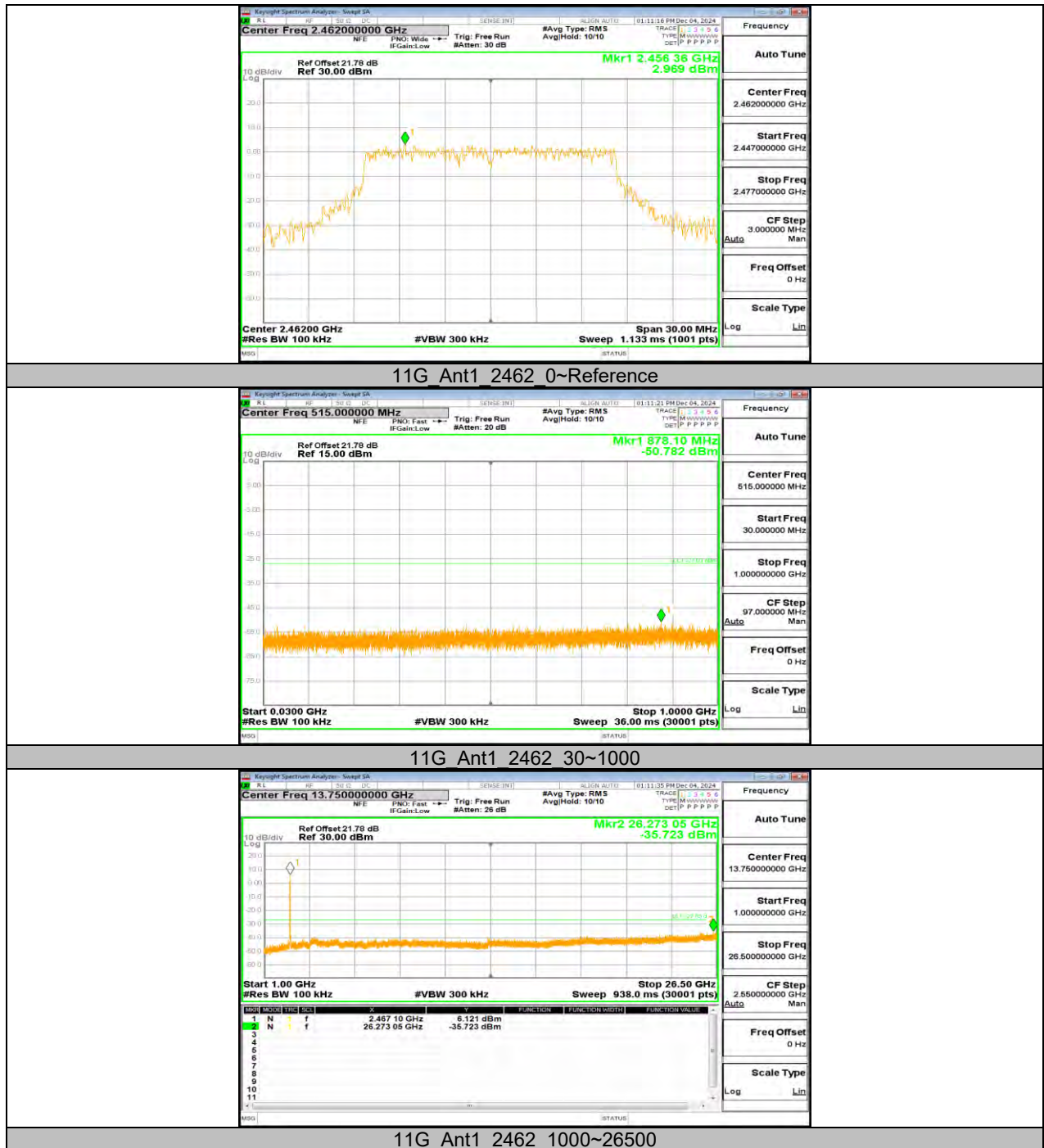


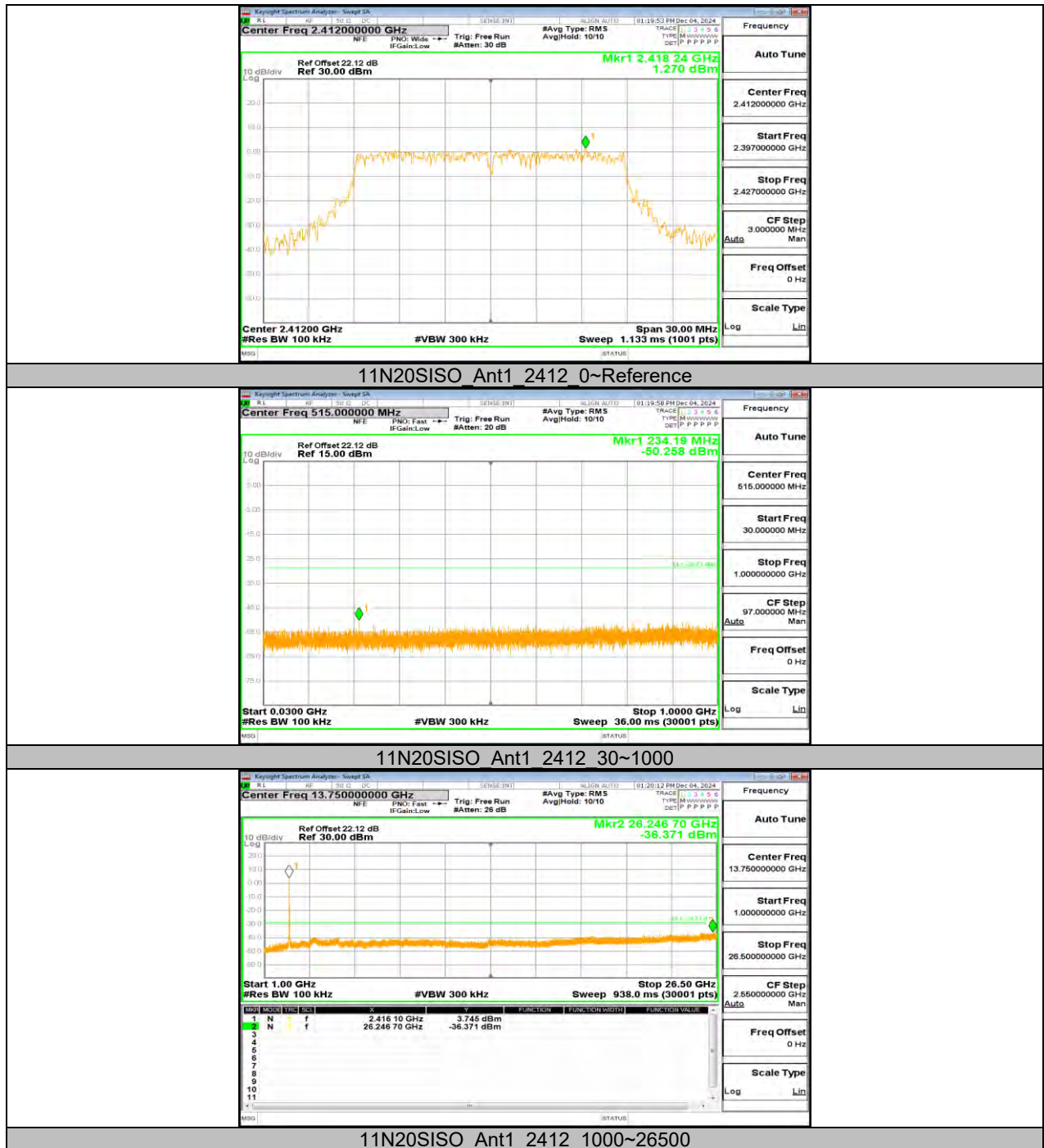


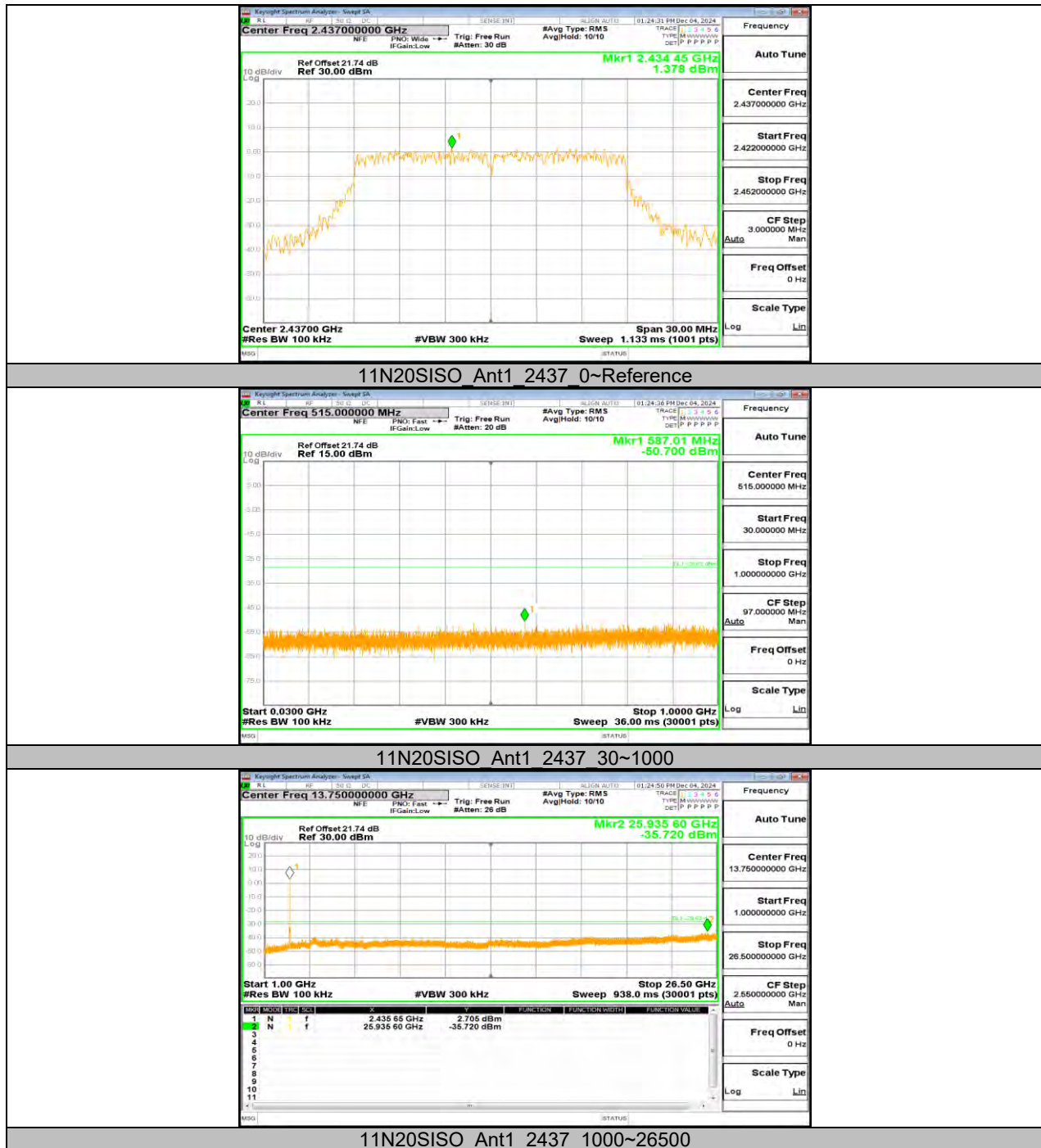


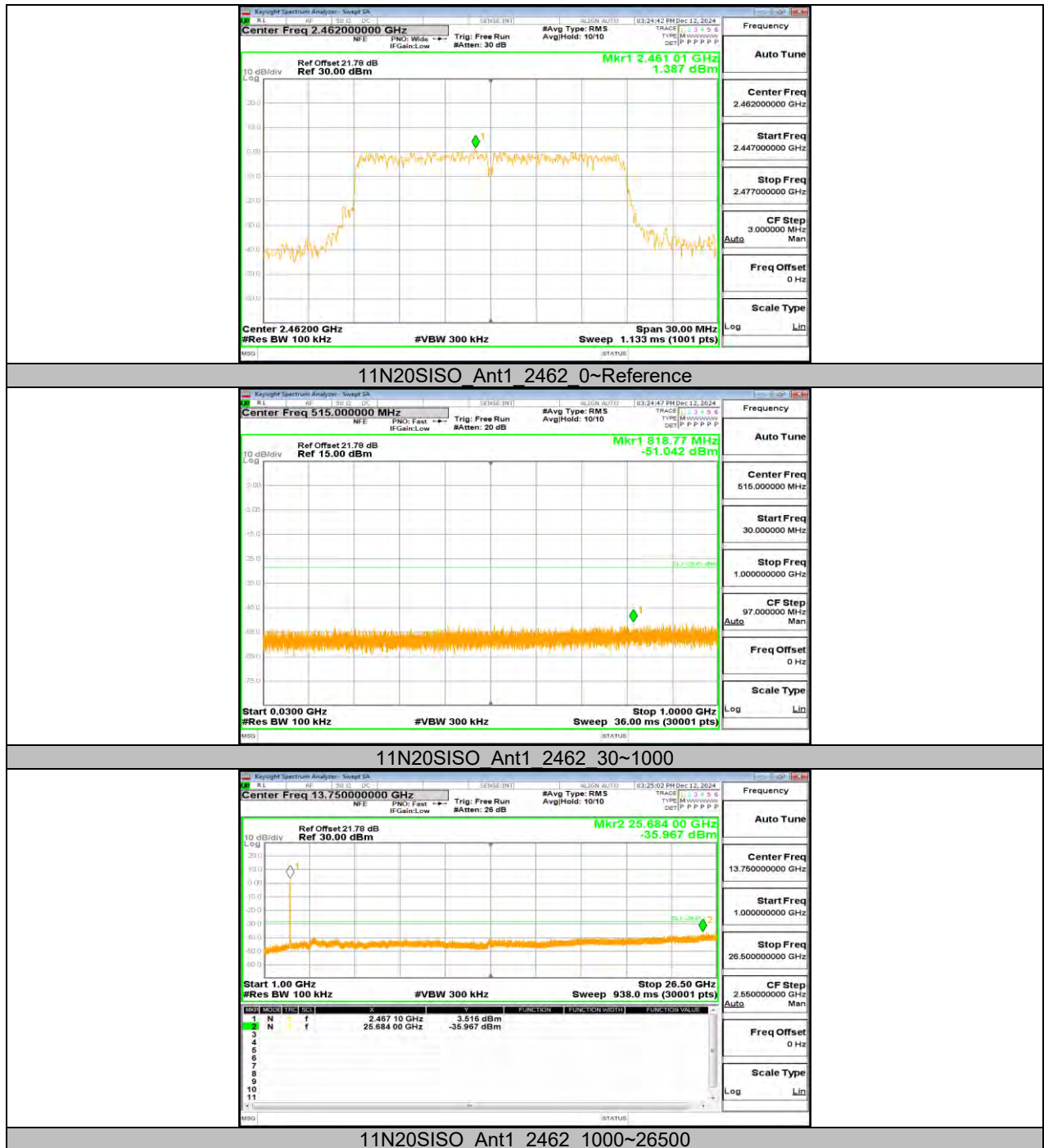


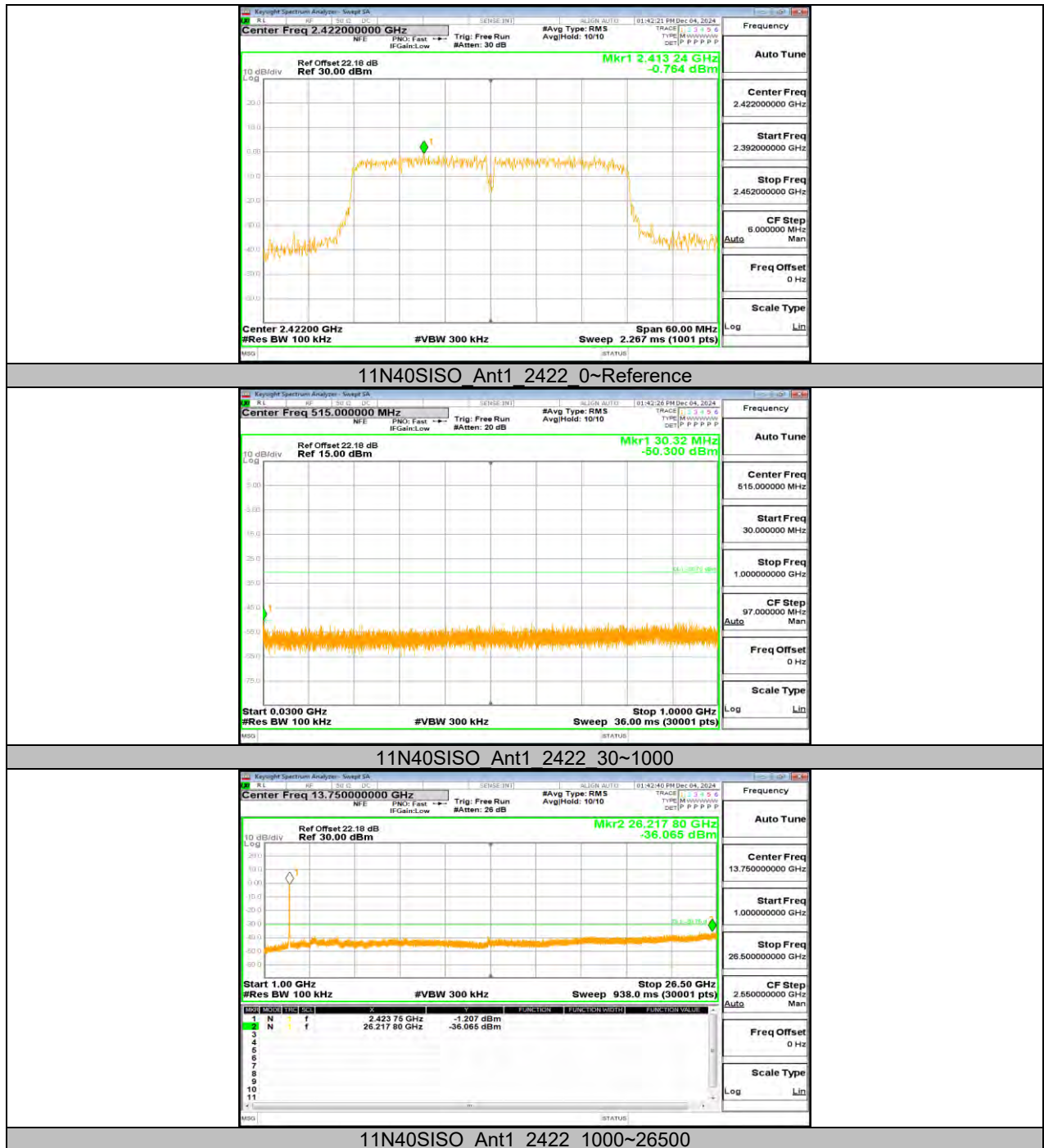


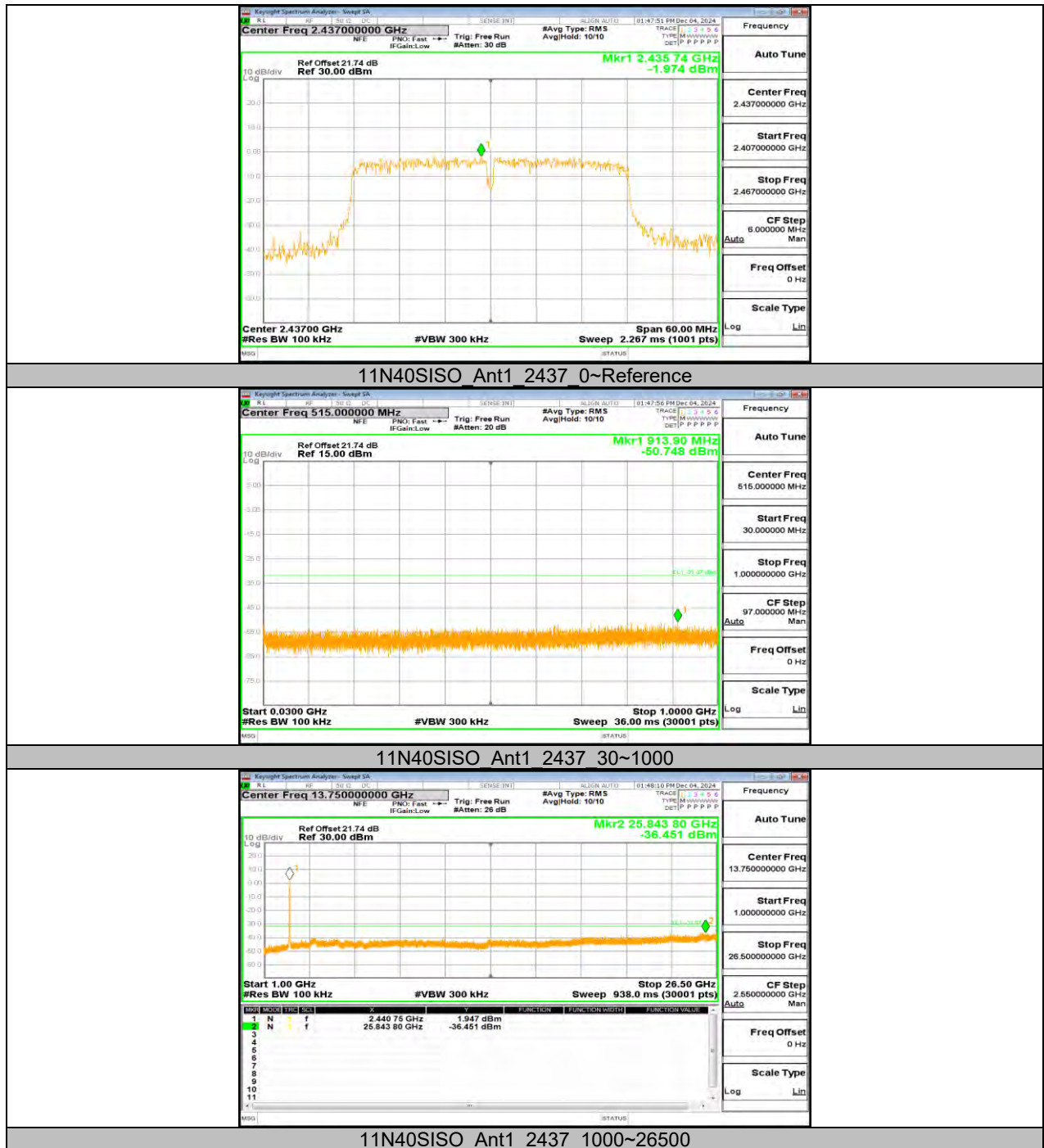


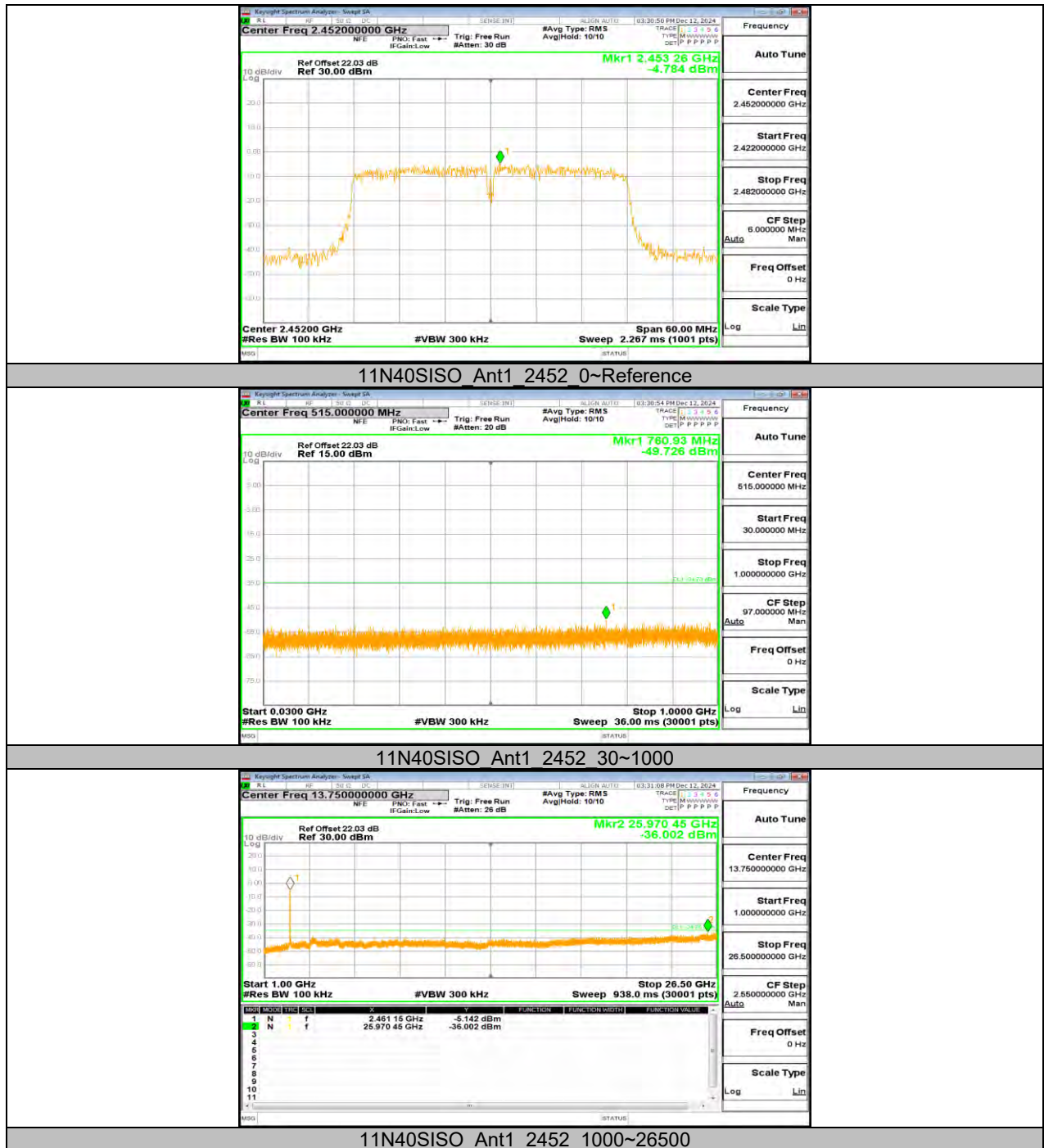












11.7. APPENDIX G: DUTY CYCLE**11.7.1. Test Result**

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	32.94	32.97	0.9991	99.91	0.00	N/A	0.01
11G	5.48	5.51	0.9946	99.46	0.02	N/A	0.01
11N20SISO	5.08	5.11	0.9941	99.41	0.03	N/A	0.01
11N40SISO	2.46	2.49	0.9880	98.80	0.05	N/A	0.01

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.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

11.7.2. Test Graphs





END OF REPORT