

TEST REPORT

Report No.: SHATBL2412023W03

Applicant : Tersus GNSS Inc.

Product Name : GNSS Receiver

Brand Name : N/A

Model Name : LUKA

FCC ID : 2AMDJ-LUKA

Test Standard : 47 CFR 15.247

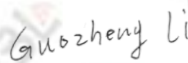
Date of Test : 2025.01.03-2025.04.25

Report Prepared by :



(Emily)

Report Approved by :



(Guozheng Li)

Authorized Signatory :



(Terry Yang)



TABLE OF CONTENTS

REVISION HISTORY	3
DECLARATION OF REPORT	4
SUMMARY OF TEST RESULT	5
1. GENERAL DESCRIPTION	6
1.1. Applicant	6
1.2. Manufacturer	6
1.3. Factory	6
1.4. General Information of EUT	7
1.5. Equipment Specification	8
1.6. Modification of EUT	9
1.7. Laboratory Information	9
1.8. Applicable Standards	9
2. TEST CONFIGURATION OF EUT	10
2.1. Carrier Frequency Channel	10
2.2. Test Modes	10
2.3. Block Diagram of Test System	11
2.4. Description of Support Units	11
2.5. Test Software and Power Level	11
2.6. EUT Operating Conditions	11
2.7. Equipment List	12
2.8. Measurement Uncertainty	13
3. TEST RESULT	14
3.1. Maximum Peak Conducted Output Power	14
3.2. Duty Cycle	16
3.3. 6dB Bandwidth and 99% Bandwidth	17
3.4. Power Spectral Density	19
3.5. Conducted Band Edge	20
3.6. Conducted Spurious Emission	21
3.7. Radiated Spurious Emission and Restricted Band	22
3.8. AC Power-Line Conducted Emission	26
3.9. Antenna Requirement	27
4. TEST SETUP PHOTOGRAPHS	27
5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	27
Appendix A _ Conducted Test Data	28
Appendix A1. Conducted Output Power	28
Appendix A2. Duty Cycle	29
Appendix A3. 6dB Bandwidth and 99% Bandwidth	32
Appendix A4. Power Spectral Density	36
Appendix A5. Conducted Spurious Emission	38
Appendix B _ Radiated Test Data and AC Power-Line Conducted Emission	45
Appendix B1. Radiated spurious emissions	45
Appendix B2. Test Result of Restricted Band	77
Appendix B3. AC Power-Line Conducted Emission Test Data	109

REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	2025.04.25	Initial Release	Guozheng Li

DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR 15.247. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '☐' indicates that EUT does not support content after '☐', and '☑' indicates that it supports content after '☑'

SUMMARY OF TEST RESULT

Report Section	Standard Section	Test Item	Judgment	Remark
3.1	47 CFR 15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	--
3.2	--	Duty Cycle	Report only	--
3.3	47 CFR 15.247(a)(2)	6dB Bandwidth	PASS	--
	--	99% Bandwidth	Report only	--
3.4	47 CFR 15.247(e)	Power Spectral Density	PASS	--
3.5	47 CFR 15.247(d)	Conducted Band Edge	PASS	--
3.6	47 CFR 15.247(d)	Conducted Spurious Emission	PASS	--
3.7	47 CFR 15.247(d)/15.209(a)/15.205(a)	Radiated Spurious Emission and Restricted Band	PASS	--
3.8	47 CFR 15.207(a)	AC Power-Line Conducted Emission	N/A	--
3.9	47 CFR 15.203	Antenna Requirements	PASS	--

1. GENERAL DESCRIPTION

1.1. Applicant

Name : Tersus GNSS Inc.

Address : Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

1.2. Manufacturer

Name : Tersus GNSS Inc.

Address : Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

1.3. Factory

Name : Tersus GNSS Inc.

Address : Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

1.4. General Information of EUT

General Information	
Equipment Name	GNSS Receiver
Brand Name	N/A
Model Name	LUKA
Series Model	N/A
Model Difference	N/A
Sample No	202411200019003
Adapter	Model:QL015-0503100U1 Brand:/ Input:100-240V~50/60Hz 0.5A Output:5V DC 0.01-3.0A
Battery	Model:SNLB-958 Brand:/ Rated Voltage:7.4V DC Charge Limit Voltage:5V DC Capacity:7000mah
Hardware Version	V1.2
Software Version	2.0.90
Connecting I/O Port(s)	Refer to the remark below.

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5. Equipment Specification

Equipment Specification			
Frequency Range	2412 MHz - 2462 MHz		
Maximum Output Power To Antenna	☒ 802.11b:	21.47 dBm (0.140 W)	
	☒ 802.11g:	25.74 dBm (0.375 W)	
	☒ 802.11n(HT)20:	23.80 dBm (0.240 W)	
	☒ 802.11n(HT)40:	23.98 dBm (0.250 W)	
Type of Modulation	☒ 802.11b: DSSS (DBPSK/DQPSK/CCK)		
	☒ 802.11g/n(HT): OFDM (BPSK/QPSK/16QAM/64QAM)		
Antenna Information	☒ SISO	Antenna Type:	Built-in
		Antenna Gain:	1.25 dBi
	☐ MIMO	Antenna Number:	/
		Antenna Type:	/
		Antenna Gain:	/
		Antenna Technology:	☐ Beamforming ☐ CDD
		Directional Gain:	For Power: /
			For PSD: /

1.6. Modification of EUT

No modifications are made to the EUT during all test items.

1.7. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	Building 8, No.160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone	:	+86(0)21-51298625
FCC Test Firm registration Number	:	485917
A2LA Number	:	6184.01
CNAS Number	:	CNAS L14531
CAB Identifier	:	CN0116

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR Part 15 Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2. TEST CONFIGURATION OF EUT

2.1. Carrier Frequency Channel

Frequency Band	Channel	Frequency MHz	Channel	Frequency MHz
2400 - 2483.5 MHz	01	2412	07	2442
	02	2417	08	2447
	03	2422	09	2452
	04	2427	10	2457
	05	2432	11	2462
	06	2437		

Remark:

- For 20 MHz Bandwidth: Low Channel: **CH 01_2412 MHz**; Middle Channel: **CH 06_2437 MHz**; High Channel: **CH 11_2462 MHz**.
- For 40 MHz Bandwidth: Low Channel: **CH 03_2422 MHz**; Middle Channel: **CH 06_2437 MHz**; High Channel: **CH 09_2452 MHz**.

2.2. Test Modes

Final test modes are considering the modulation and worse data rates as below table.

Summary Table of Test Modes			
Test Item	Mode	Data Rate	Channel
For Conducted and Radiated Test	☒ 802.11b:	1 Mbps	Low, Middle, High
	☒ 802.11g:	6 Mbps	Low, Middle, High
	☒ 802.11n(HT)20:	MCS 0	Low, Middle, High
	☒ 802.11n(HT)40:	MCS 0	Low, Middle, High
	☐ 802.11ac(VHT)20:	MCS 0	Low, Middle, High
	☐ 802.11ac(VHT)40:	MCS 0	Low, Middle, High
	☐ 802.11ax(HE)20:	MCS 0	Low, Middle, High
	☐ 802.11ax(HE)40:	MCS 0	Low, Middle, High
For AC Power-line Conducted Emission	Mode 7:Keep WIFI link under the maximum output power		

Remark:

All the test modes of Radiated Spurious Emission (RSE) were tested at the worst data rate; only the worse data shown in report.

2.3. Block Diagram of Test System

2.3.1. For Radiated Spurious Emission



2.3.2. For Conducted Test



2.4. Description of Support Units

NO.	Unit	Brand	Model	Description
1	PC	Redmi	G36	for fixed frequency
2	/	/	/	/

2.5. Test Software and Power Level

During the test, the channel and power control software provided by the customer is used to control the operation channel and output power level.

NO.	Frequency Fixing Software	Version	Power Level Control	Channel Association	Physical Layer
1	EspRFTTestTool	v3.6	20 dBm	For 20 MHz Bandwidth: Low Channel: CH 01_2412 MHz; Middle Channel: CH 06_2437 MHz; High Channel: CH 11_2462 MHz. For 40 MHz Bandwidth: Low Channel: CH 03_2422 MHz; Middle Channel: CH 06_2437 MHz; High Channel: CH 09_2452 MHz.	2.4G WIFI

2.6. EUT Operating Conditions

For AC power-line conducted emission, the EUT was connected under the large package sizes transmission.

For radiated spurious emission and conducted test, the engineering test program was provided and make the EUT to continuous transmit/receive.

2.7. Equipment List

2.7.1. For Conducted Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Power sensor	DARE	RPR3006W	16I00054SN016	SHATBL-W008	2024.07.18	2025.07.17	1 year
Adjustable Attenuator	Agilent	8494B	MY42144015	SHATBL-W009	2024.07.18	2025.07.17	1 year
Adjustable Attenuator	Agilent	8496B	MY42143776	SHATBL-W010	2024.07.18	2025.07.17	1 year
Environmental Test Chamber	KSON	THS-B6C-150	9159K	SHATBL-W019	2024.03.18	2025.03.17	1 year
Signal analyzer	Keysight	N9020A	MY50510136	SHATBL-W003	2024.07.18	2025.07.17	1 year
Vector signal generator	Agilent	N5182A	MY48180764	SHATBL-W043	2024.07.18	2025.07.17	1 year
Analog signal generator	Keysight	N5182B	MY57300196	SHATBL-W005	2024.07.18	2025.07.17	1 year
Wideband radio communication tester	R&S	CMW500	101331	SHATBL-W007	2024.07.18	2025.07.17	1 year
Switch Box	Cesheng	smu 1003	WCS20221215	SHATBL-W047	N/A	N/A	N/A
Thermometer	DeLi	N/A	N/A	SHATBL-W011	2024.07.22	2025.07.21	1 year
Test Software	Cesheng	WCS-WC N	N/A	SHATBL-W021	N/A	N/A	N/A

2.7.2. For Radiated Spurious Emission

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
Signal analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2024.03.28	2025.03.27	1 year
Amplifier	JPT	JPA0118-55-303A	1910001800055000	SHATBL-E006	2024.03.28	2025.03.27	1 year
Amplifier	JPT	JPA-10M1G32	21010100035001	SHATBL-E005	2024.03.28	2025.03.27	1 year
Antenna/Turn table Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A	N/A	N/A
Loop Antenna(9kHz-30 MHz)	Daze	ZN30900C	20077	SHATBL-E042	2024.05.17	2025.05.16	1 year
Bilog Antenna	SCHWARZBECK	VULB 9168	01174	SHATBL-E008	2024.05.17	2025.05.16	1 year
Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	02334	SHATBL-E009	2024.05.17	2025.05.16	1 year
Horn Antenna	COM-POWER	AH-1840	10100008	SHATBL-E043	2024.07.28	2025.07.27	1 year
Thermometer	DeLi	N/A	N/A	SHATBL-E015	2024.07.18	2025.07.17	1 year
Test Software	FALA	EMC-RI(Ver.4A2)	N/A	N/A	N/A	N/A	N/A
Wideband radio communication tester	R&S	CMW500	101331	SHATBL-W044	2024.07.18	2025.07.17	1 year

2.7.3. For AC Power-Line Conducted Emission

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until	Calibrated due until	Cal. Interval
EMI Test Receiver	R&S	ESPI	100679	SHATBL-E012	2024.03.28	2025.03.27	1 year
LISN	R&S	ENV216	101300	SHATBL-E013	2024.03.28	2025.03.27	1 year
CE Cable	Chuangce xing	2M	EMI0014	SHATBL-E014	2024.03.28	2025.03.27	1 year
Temperature & Humidity	Deli	Deli	EMI0015	SHATBL-E015	2024.07.22	2025.07.21	1 year
Testing Software	FALA	EZ-EMC(Ver.EMC-C ON 3A1.1)	EMI0044	SHATBL-E044	N/A	N/A	N/A

2.8. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item		Uncertainty
1	Conducted Output Power		1.27dB
2	Power spectral density		1.28dB
3	Conducted Frequency Stability		10.14Hz
4	Conducted spurious emissions		1.73dB
5	RF Cable Loss		1.22dB
6	Radiated Spurious Emission 9KHz-30MHz		2.35dB
7	Radiated Spurious Emission 30MHz-1GHz		2.59dB
8	Radiated Spurious Emission 1GHz-18GHz		2.62dB
9	Radiated Spurious Emission 18GHz - 40GHz		2.80dB
10	Occupied bandwidth		23.20Hz
11	Conducted Emissions	9kHz ~ 150kHz	3.4dB
		150kHz ~ 30MHz	3.73dB

3. TEST RESULT

3.1. Maximum Peak Conducted Output Power

3.1.1. Limit

47 CFR 15.247(b)(3): For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

47 CFR 15.247(b)(4): 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 by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

47 CFR 15.247(c)(1)(i): Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.1.2. Test Procedure

ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter method: The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM: Method AVGPM is a measurement using an RF average power meter, as follows:

1. As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:

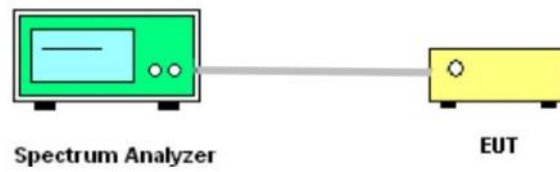
- ① The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- ② At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- ③ The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

2. If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in ANSI C63.10-2013 clause 11.6.

3. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.

4. Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

3.1.3. Test Setup



3.1.4. Test Result of Maximum Peak Conducted Output Power

Please refer to the Appendix A1.

3.2. Duty Cycle

3.2.1. Limit

There is no limit requirement for Duty Cycle.

3.2.2. Test Procedure

ANSI C63.10-2013 clause 11.6: Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

1. A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
2. The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- ① Set the center frequency of the instrument to the center frequency of the transmission.
- ② Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- ③ Set $VBW \geq RBW$. Set detector = peak or average.
- ④ The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.2.3. Test Setup



3.2.4. Test Result of Duty Cycle

Please refer to the Appendix A2.

3.3. 6dB Bandwidth and 99% Bandwidth

3.3.1. Limit

47 CFR 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

There is no limit requirement for 99% Bandwidth.

3.3.2. Test Procedure

1. The testing of 6dB Bandwidth follows ANSI C63.10-2013 clause 11.8.1: The steps for the first option are as follows:

- ① Set RBW = 100 kHz.
- ② Set the VBW $\geq [3 \times \text{RBW}]$.
- ③ Detector = peak.
- ④ Trace mode = max hold.
- ⑤ Sweep = auto couple.
- ⑥ Allow the trace to stabilize.
- ⑦ 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.

2. The testing of 99% Bandwidth follows ANSI C63.10-2013 clause 6.9.3: The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

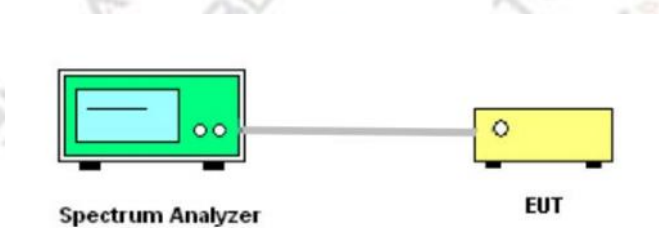
- ① The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- ② The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- ③ Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in ANSI C63.10-2013 clause 4.1.5.2.
- ④ Step a) through step c) might require iteration to adjust within the specified range.
- ⑤ Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- ⑥ Use the 99% power bandwidth function of the instrument (if available) and report the

measured bandwidth.

⑦ If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

⑧ The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.3.3. Test Setup



3.3.4. Test Result of 6dB Bandwidth and 99% Bandwidth

Please refer to the Appendix A3.

3.4. Power Spectral Density

3.4.1. Limit

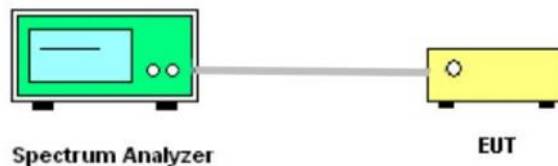
47 CFR 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

3.4.2. Test Procedure

ANSI C63.10-2013 clause 11.10.2: The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to 3 kHz.
4. Set the VBW to $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.

3.4.3. Test Setup



3.4.4. Test Result of Power Spectral Density

Please refer to the Appendix A4.

3.5. Conducted Band Edge

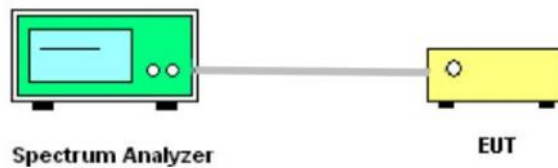
3.5.1. Limit

47 CFR 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

3.5.2. Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Conducted Band Edge measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the 100 kHz bandwidth within the band that contains the highest level of the desired power when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.5.3. Test Setup



3.5.4. Test Result of Conducted Band Edge

Please refer to the Appendix A5.

3.6. Conducted Spurious Emission

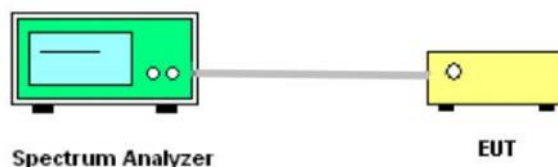
3.6.1. Limit

47 CFR 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

3.6.2. Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.6.3. Test Setup



3.6.4. Test Result of Conducted Spurious Emission

Please refer to the Appendix A5.

3.7. Radiated Spurious Emission and Restricted Band

3.7.1. Limit

47 CFR 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

47 CFR 15.205(a): Only spurious emissions are permitted in any of the frequency bands listed below:

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090-0.110	12.29-12.293	149.9-150.05	1660-1710	8.025-8.5
0.495-0.505	12.51975-12.52025	156.52475-156.52525	1718.8-1722.2	9.0-9.2
2.1735-2.1905	12.57675-12.57725	156.7-156.9	2200-2300	9.3-9.5
4.125-4.128	13.36-13.41	162.0125-167.17	2310-2390	10.6-12.7
4.17725-4.17775	16.42-16.423	167.72-173.2	2483.5-2500	13.25-13.4
4.20725-4.20775	16.69475-16.69525	240-285	2690-2900	14.47-14.5
6.215-6.218	16.80425-16.80475	322-335.4	3260-3267	15.35-16.2
6.26775-6.26825	25.5-25.67	399.9-410	3332-3339	17.7-21.4
6.31175-6.31225	37.5-38.25	608-614	3345.8-3358	22.01-23.12
8.291-8.294	73-74.6	960-1240	3600-4400	23.6-24.0
8.362-8.366	74.8-75.2	1300-1427	4500-5150	31.2-31.8
8.37625-8.38675	108-121.94	1435-1626.5	5350-5460	36.43-36.5
8.41425-8.41475	123-138	1645.5-1646.5	7250-7750	Above 38.6

47 CFR 15.209(a): The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

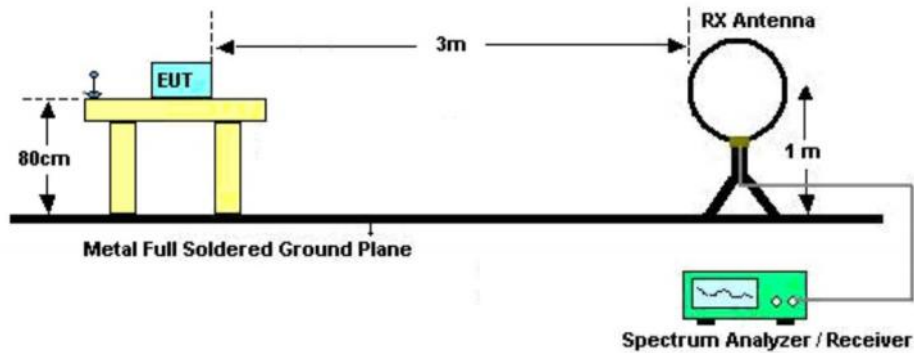
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

3.7.2. Test Procedure

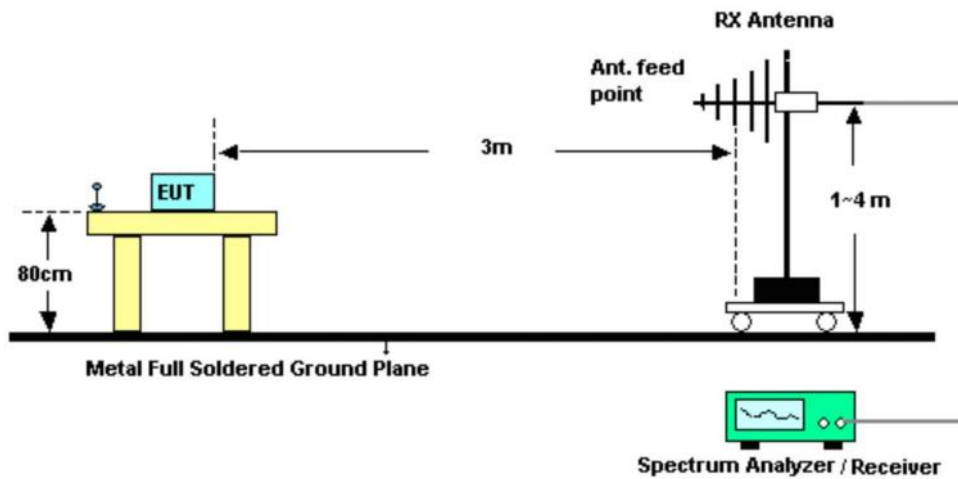
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Pre-amp Factor = Level.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - ① Span shall wide enough to fully capture the emission being measured;
 - ② When frequency < 1 GHz:
 - Set RBW=100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - ③ When frequency $\geq$ 1 GHz:
 - Set RBW = 1 MHz; VBW = 3 MHz for peak measurement;
 - Set RBW = 1 MHz; VBW = 10 Hz, when duty cycle is no less than 98 percent or VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.7.3. Test Setup

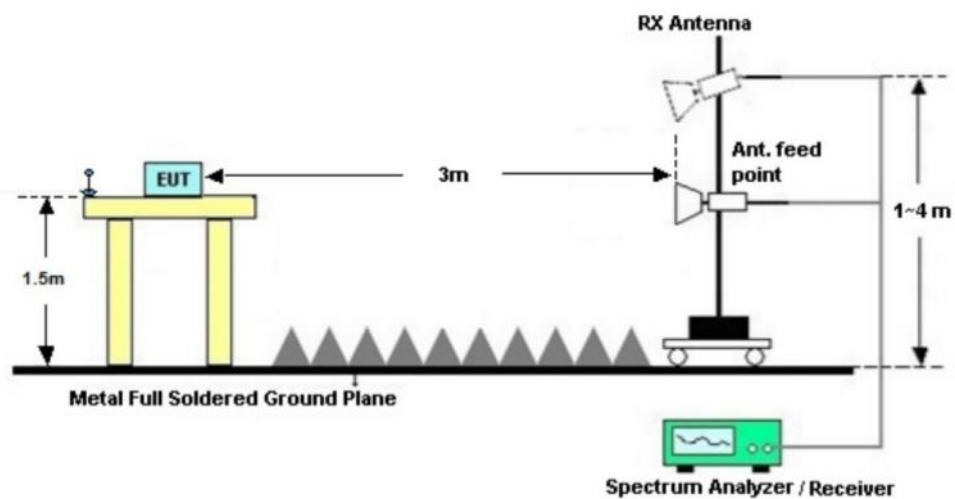
3.7.3.1. For radiated emissions below 30MHz



3.7.3.2. For radiated emissions from 30MHz to 1GHz



3.7.3.3. For radiated emissions above 1GHz



3.7.4. Test Result of Radiated Spurious Emission

Please refer to the Appendix B.

3.7.5. Test Result of Restricted Band

Please refer to the Appendix B.

3.8. AC Power-Line Conducted Emission

3.8.1. Limit

47 CFR 15.207(a): For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table:

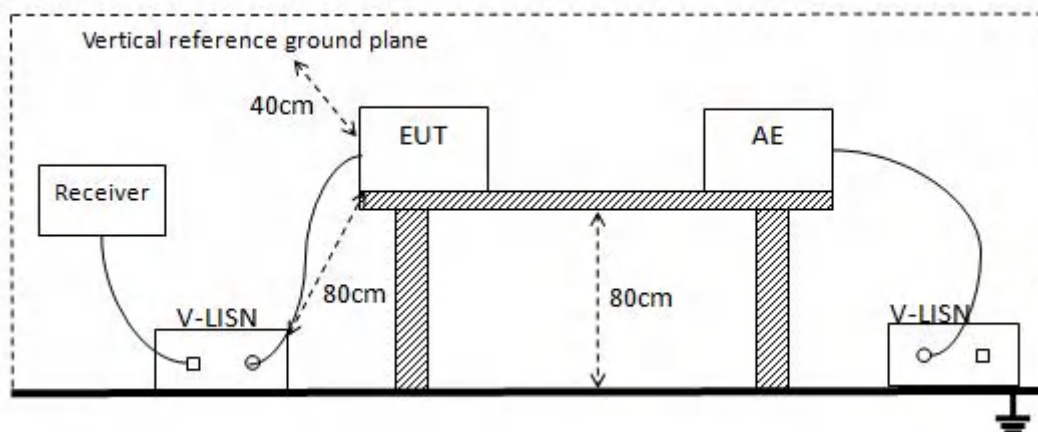
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.8.2. Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.8.3. Test Setup



3.8.4. Test Result of AC Power-Line Conducted Emission

Please refer to the Appendix B.

3.9. Antenna Requirement

3.9.1. Standard Requirement

According to 47 CFR 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.

3.9.2. EUT Antenna

The antenna used for the EUT is Built-in antenna, which meets the antenna requirements.

4. TEST SETUP PHOTOGRAPHS

Please refer to the Appendix C.

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External Photos Please refer to the Appendix D.

Internal Photos Please refer to the Appendix E.

*****END OF THE REPORT*****

Appendix A _ Conducted Test Data

Appendix A1. Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
IEEE 802.11b	1	21.25	≤30	22.50	≤36	PASS
	6	21.25	≤30	22.50	≤36	PASS
	11	21.47	≤30	22.72	≤36	PASS
IEEE 802.11g	1	25.60	≤30	26.85	≤36	PASS
	6	25.53	≤30	26.78	≤36	PASS
	11	25.74	≤30	26.99	≤36	PASS
IEEE 802.11n_20	1	23.77	≤30	25.02	≤36	PASS
	6	23.80	≤30	25.05	≤36	PASS
	11	23.70	≤30	24.95	≤36	PASS
IEEE 802.11n_40	3	23.89	≤30	25.14	≤36	PASS
	6	23.98	≤30	25.23	≤36	PASS
	9	23.85	≤30	25.10	≤36	PASS

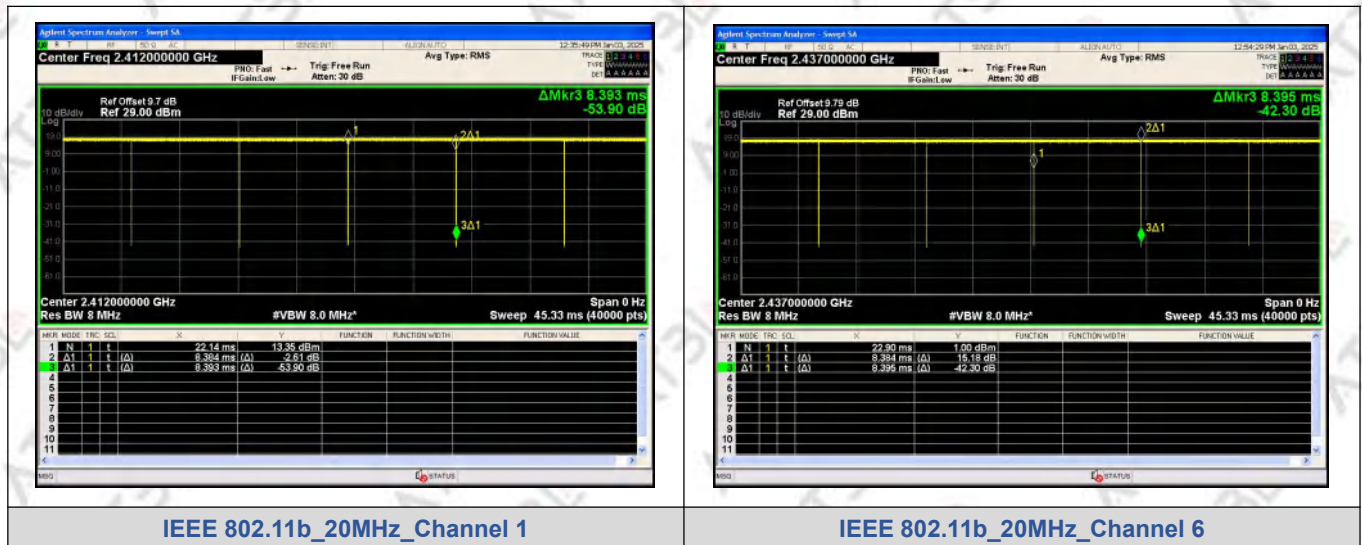
Note: $EIRP = P_{out} + G_{ant}$, where P_{out} is the conducted output power (i.e., the Peak Output Power in the table), and G_{ant} is the antenna gain equal to 1.25 dBi.

Appendix A2. Duty Cycle

Test Result

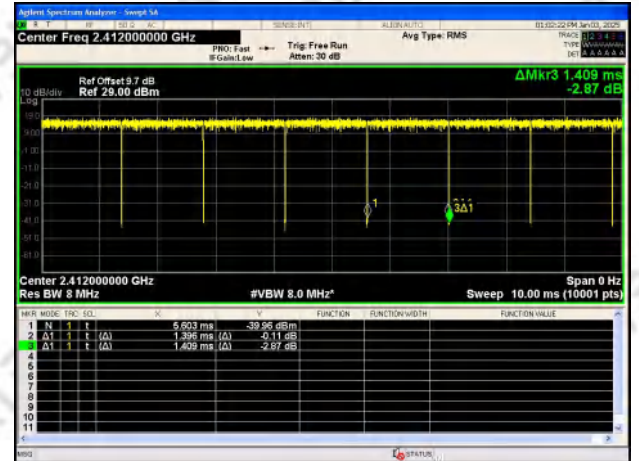
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.384	8.393	99.89	0.9989	0.0048	0.1193
		6		8.384	8.395	99.88	0.9988	0.0052	0.1193
		11		8.384	8.394	99.88	0.9988	0.0052	0.1193
IEEE 802.11g	6	1		1.396	1.409	99.08	0.9908	0.0401	0.7163
		6		1.395	1.409	99.01	0.9901	0.0432	0.7168
		11		1.395	1.409	99.01	0.9901	0.0432	0.7168
IEEE 802.11n_20	MCS 0	1		1.302	1.316	98.94	0.9894	0.0463	0.7680
		6		1.302	1.316	98.94	0.9894	0.0463	0.7680
		11		1.303	1.317	98.94	0.9894	0.0463	0.7675
IEEE 802.11n_40		3		0.650	0.665	97.73	0.9773	0.0997	1.5385
		6		0.650	0.665	97.73	0.9773	0.0997	1.5385
		9		0.649	0.665	97.66	0.9766	0.1028	1.5408

Test Graphs

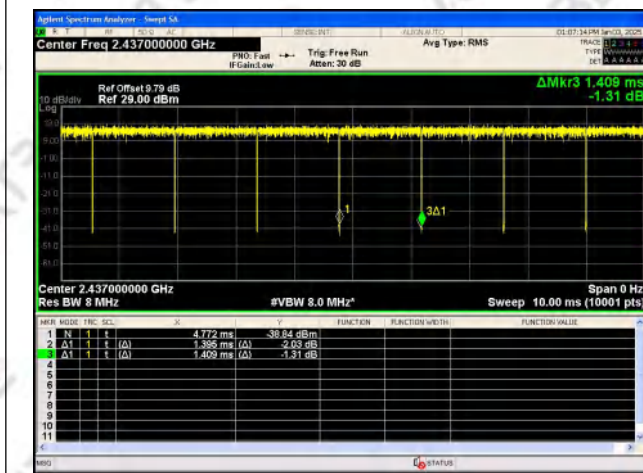




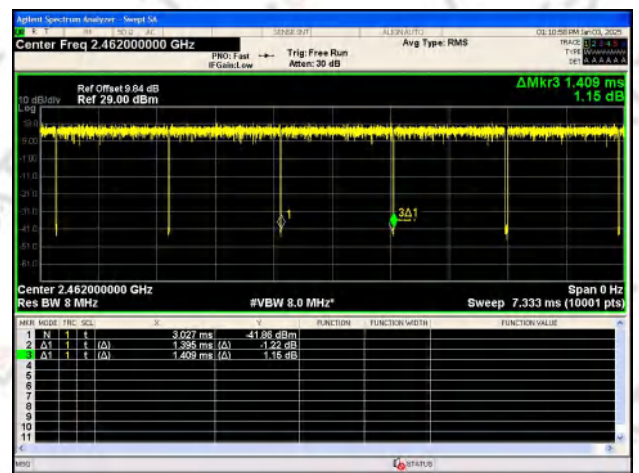
IEEE 802.11b_20MHz_Channel 11



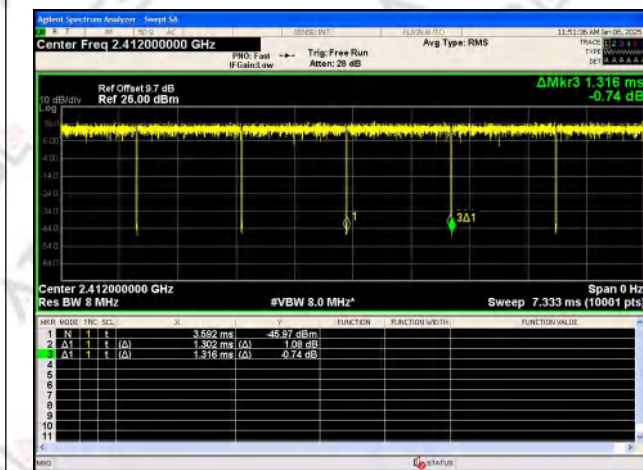
IEEE 802.11g_20MHz_Channel 1



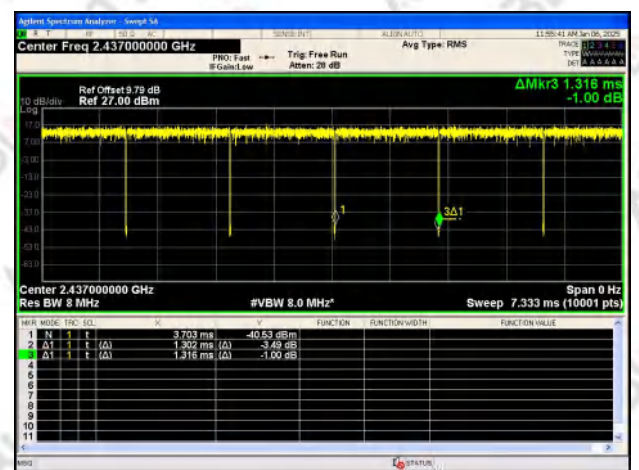
IEEE 802.11g_20MHz_Channel 6



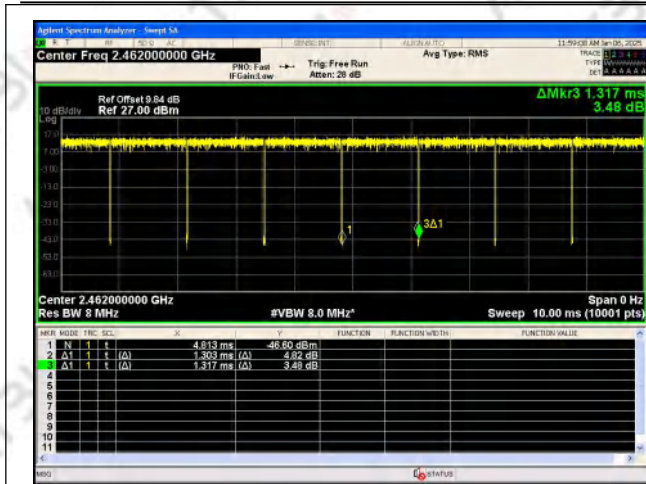
IEEE 802.11g_20MHz_Channel 11



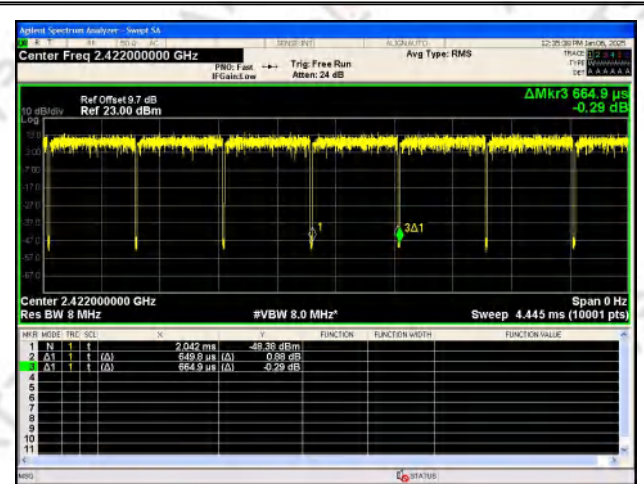
IEEE 802.11n_20MHz_Channel 1



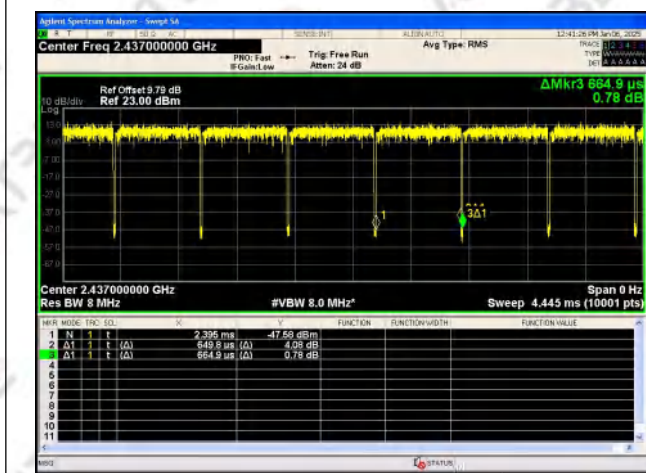
IEEE 802.11n_20MHz_Channel 6



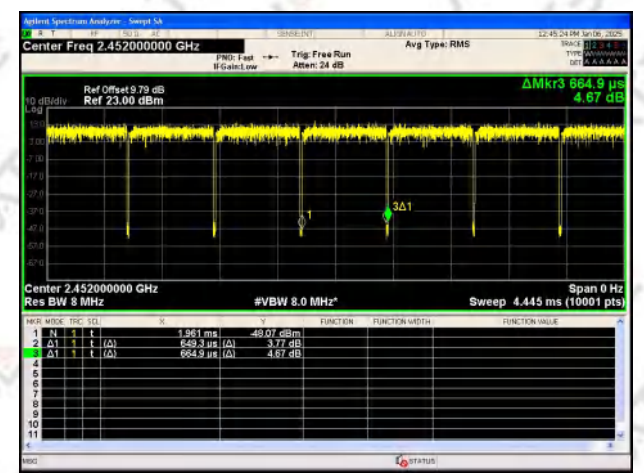
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



IEEE 802.11n_40MHz_Channel 9

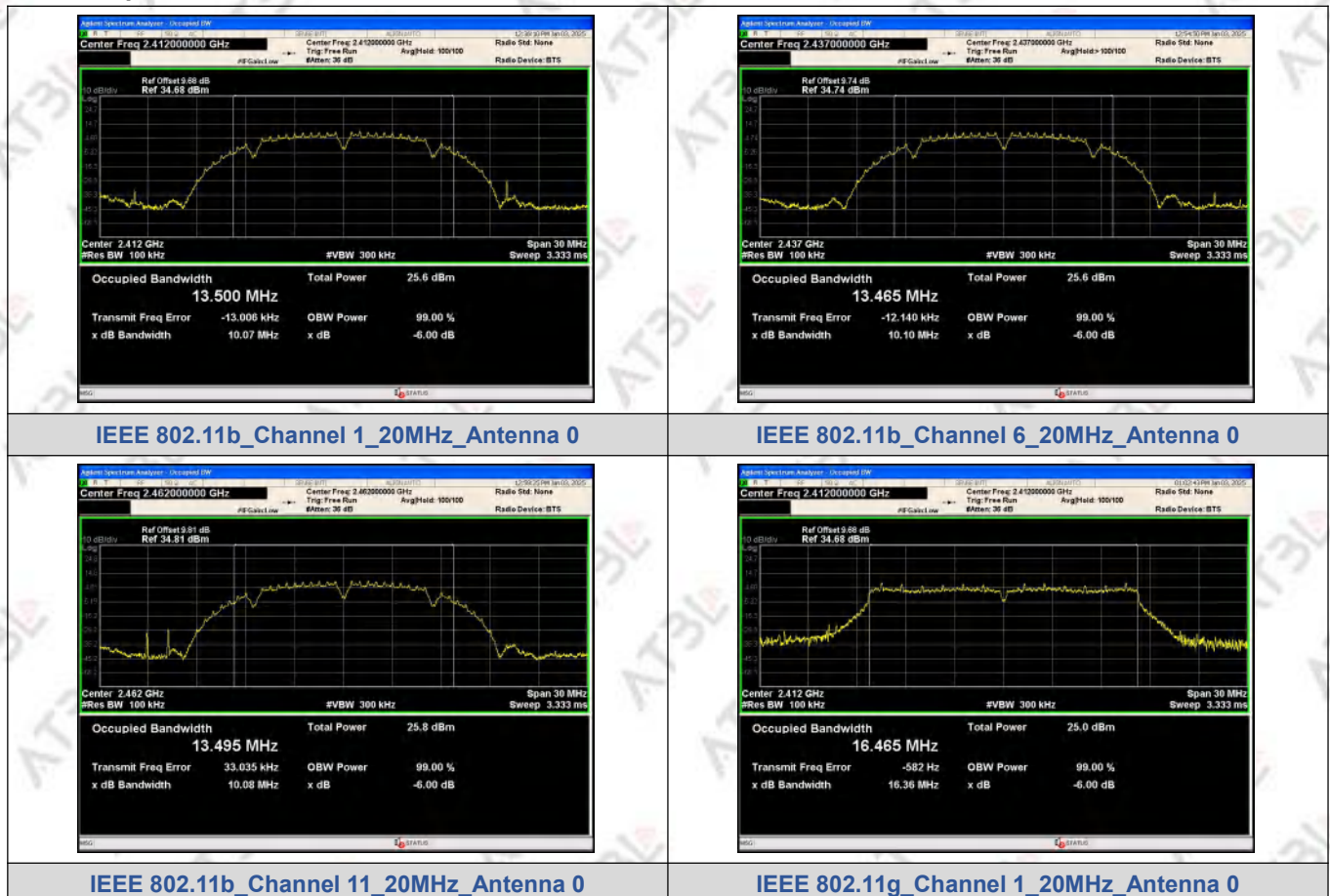
Appendix A3. 6dB Bandwidth and 99% Bandwidth

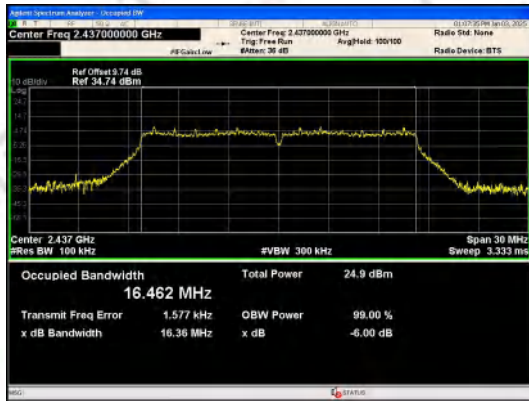
6dB Bandwidth

Test Result

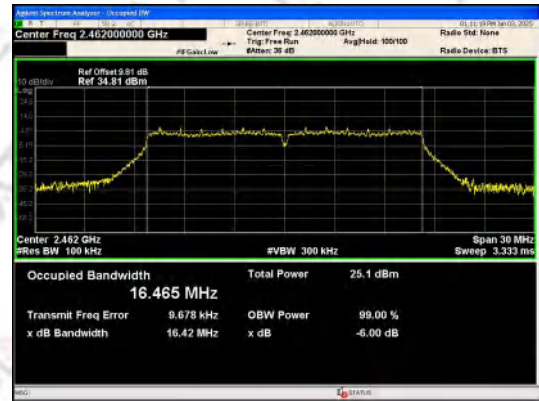
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.07	≥0.5	PASS
	6		2437	10.10		PASS
	11		2462	10.08		PASS
IEEE 802.11g	1		2412	16.36		PASS
	6		2437	16.36		PASS
	11		2462	16.42		PASS
IEEE 802.11n_20	1		2412	17.57		PASS
	6		2437	17.58		PASS
	11		2462	17.56		PASS
IEEE 802.11n_40	3		2422	35.82		PASS
	6		2437	35.49		PASS
	9		2452	35.70		PASS

Test Graphs

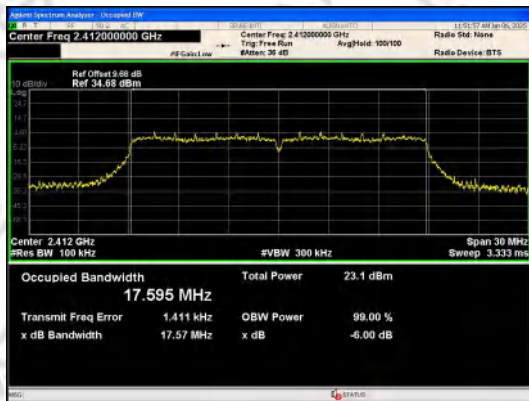




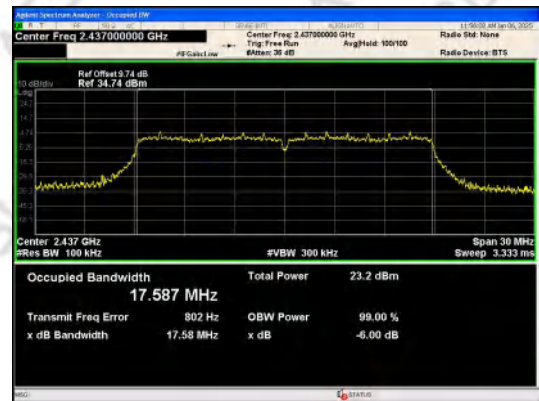
IEEE 802.11g_Channel 6_20MHz_Antenna 0



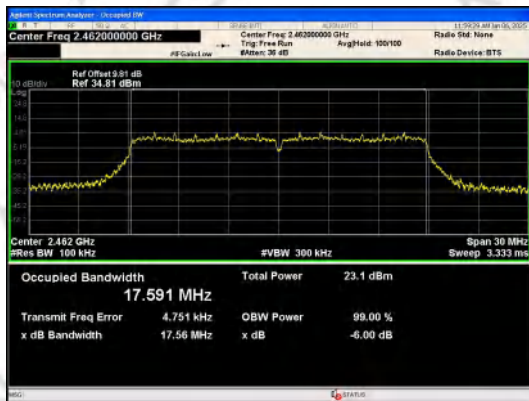
IEEE 802.11g_Channel 11_20MHz_Antenna 0



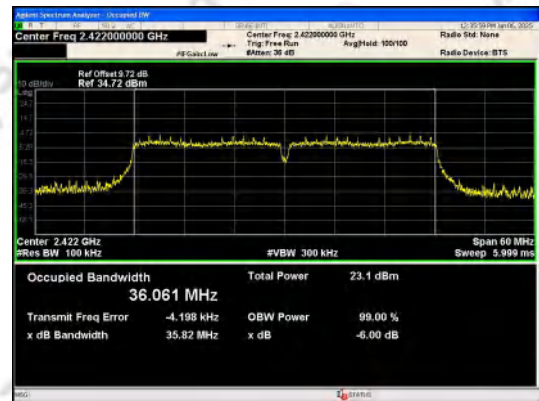
IEEE 802.11n_Channel 1_20MHz_Antenna 0



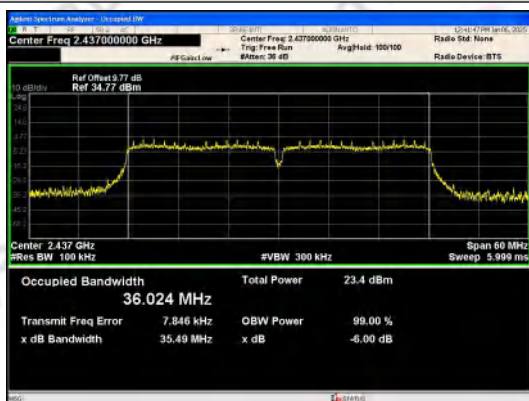
IEEE 802.11n_Channel 6_20MHz_Antenna 0



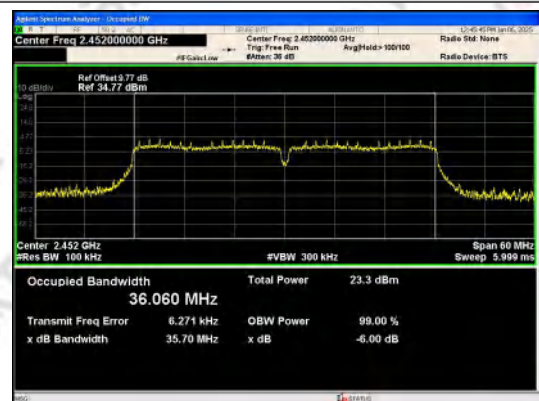
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



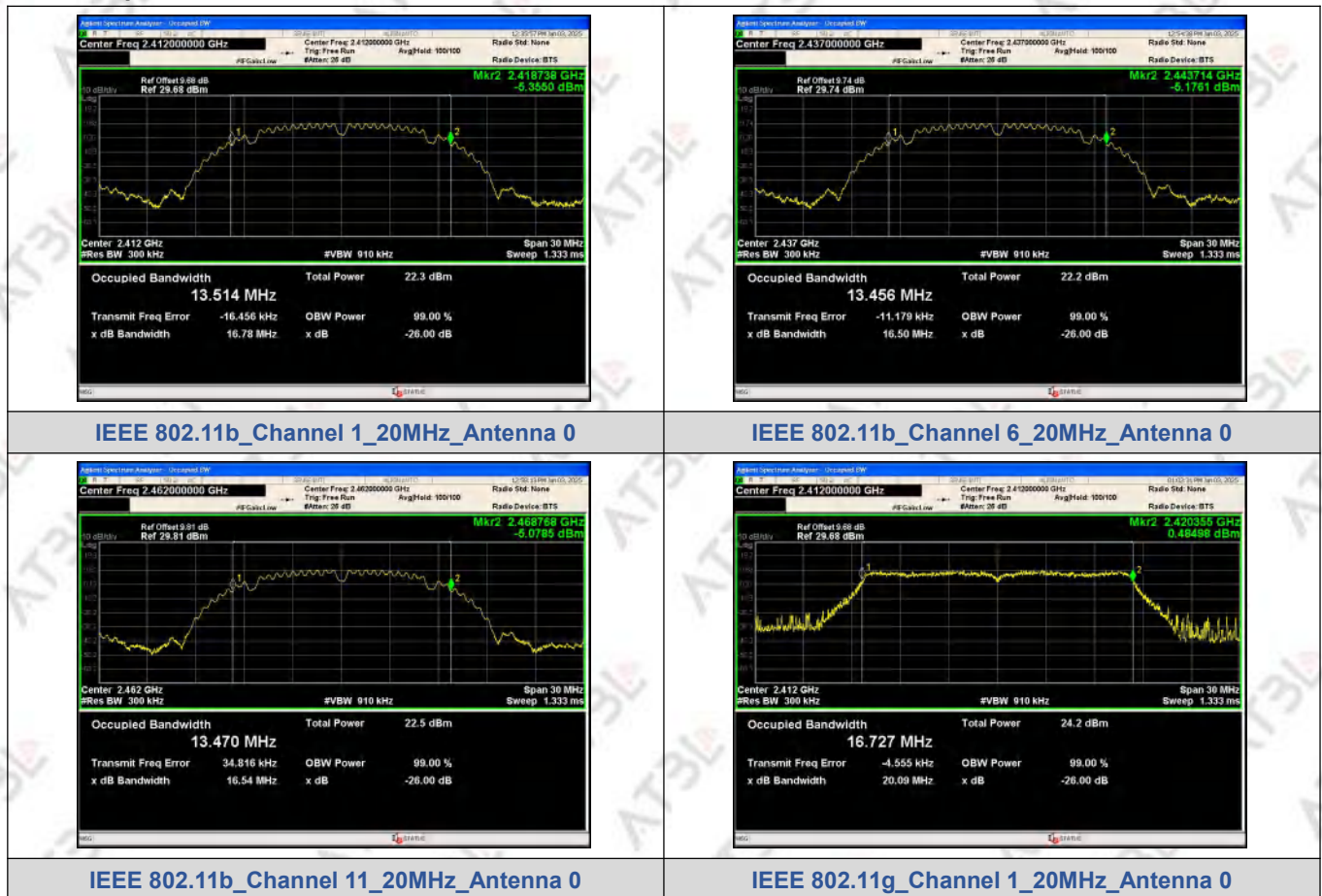
IEEE 802.11n_Channel 9_40MHz_Antenna 0

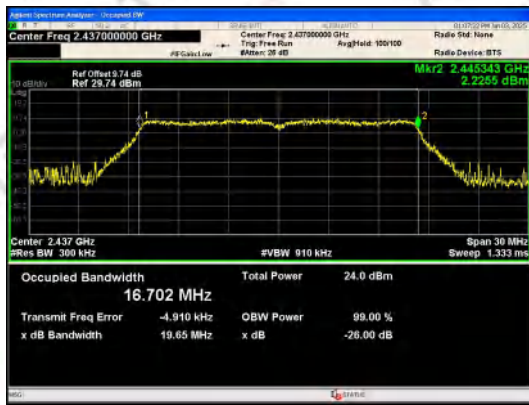
99% Bandwidth

Test Result

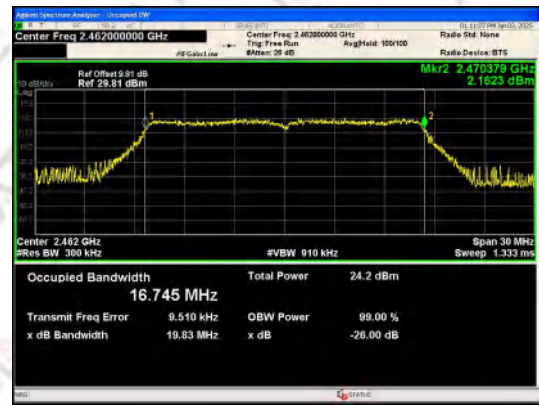
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	13.514
	6		2437	13.456
	11		2462	13.470
IEEE 802.11g	1		2412	16.727
	6		2437	16.702
	11		2462	16.745
IEEE 802.11n_20	1		2412	17.703
	6		2437	17.715
	11		2462	17.713
IEEE 802.11n_40	3		2422	36.229
	6		2437	36.216
	9		2452	36.250

Test Graphs





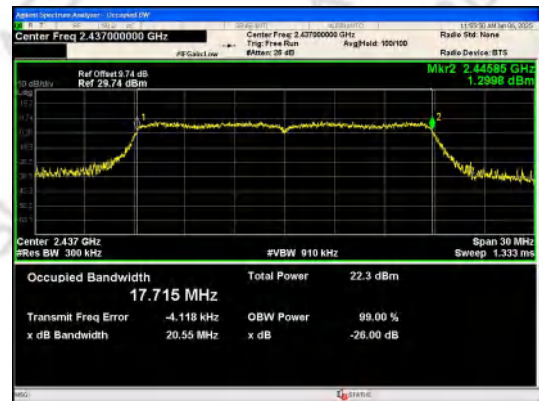
IEEE 802.11g_Channel 6_20MHz_Antenna 0



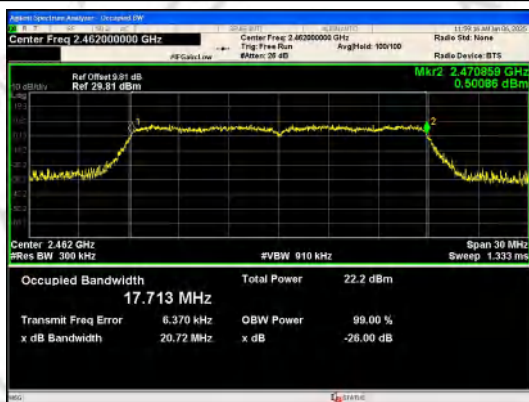
IEEE 802.11g_Channel 11_20MHz_Antenna 0



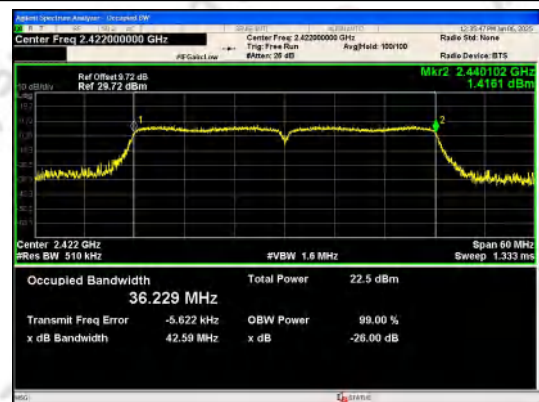
IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

Appendix A4. Power Spectral Density

Test Result

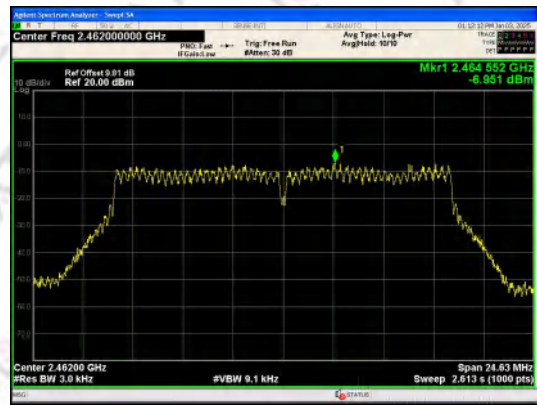
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-1.625	≤8	PASS
	6	-0.133		PASS
	11	-1.195		PASS
IEEE 802.11g	1	-6.752		PASS
	6	-7.219		PASS
	11	-6.951		PASS
IEEE 802.11n_20	1	-9.114		PASS
	6	-8.282		PASS
	11	-7.884		PASS
IEEE 802.11n_40	3	-11.294		PASS
	6	-11.332		PASS
	9	-11.055		PASS

Test Graphs

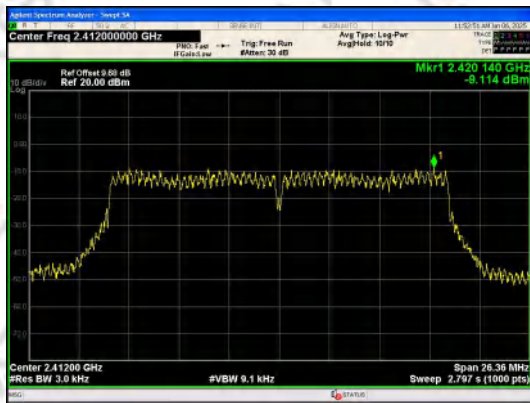




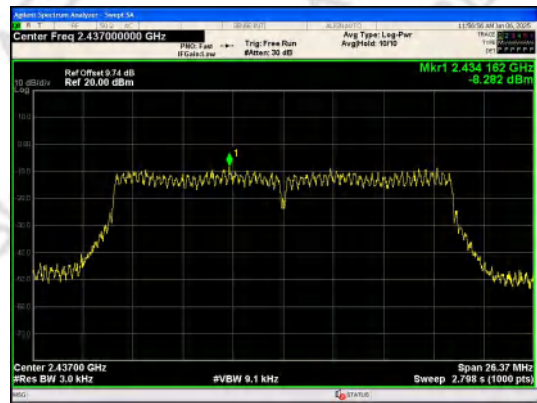
IEEE 802.11g_Channel 6_20MHz_Antenna 0



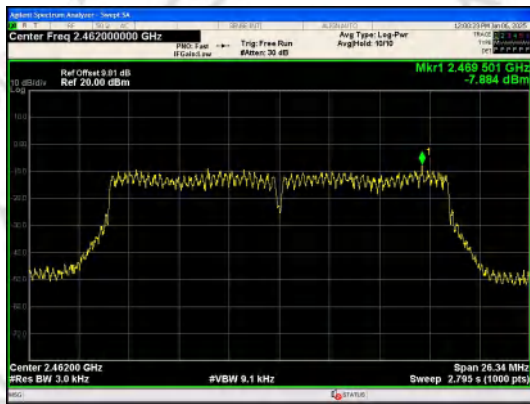
IEEE 802.11g_Channel 11_20MHz_Antenna 0



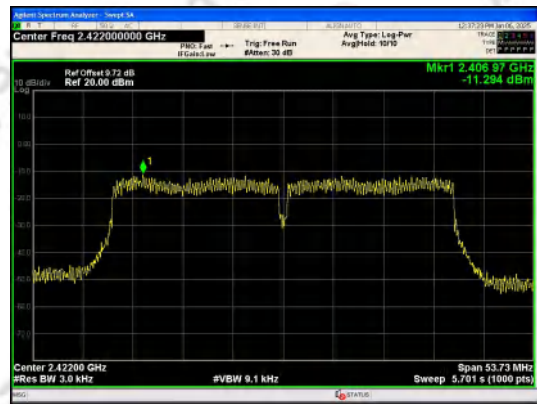
IEEE 802.11n_Channel 1_20MHz_Antenna 0



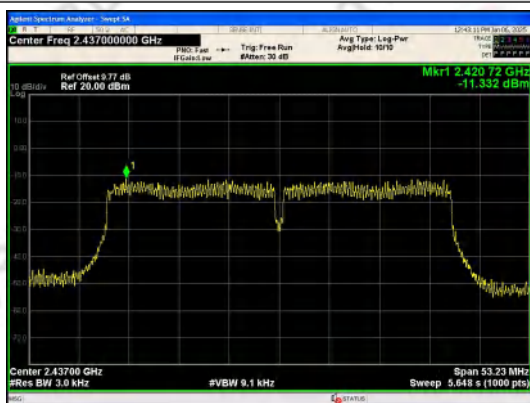
IEEE 802.11n_Channel 6_20MHz_Antenna 0



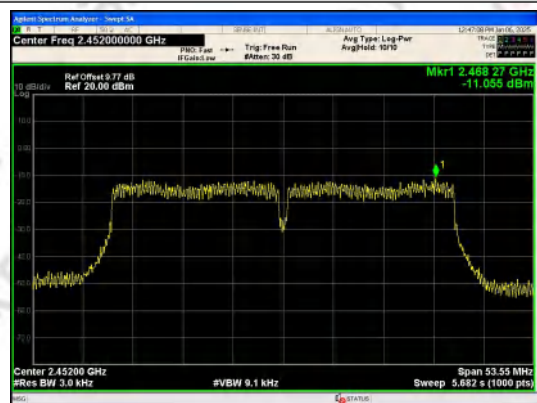
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

Appendix A5. Conducted Spurious Emission

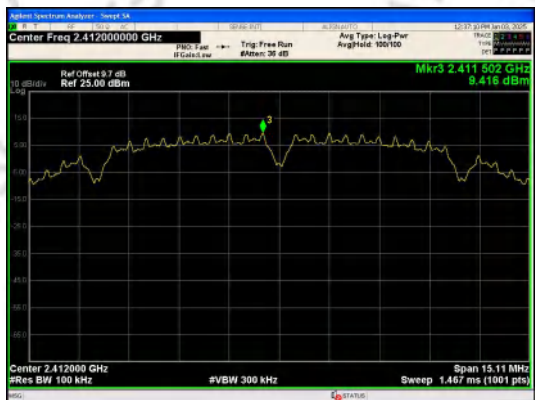
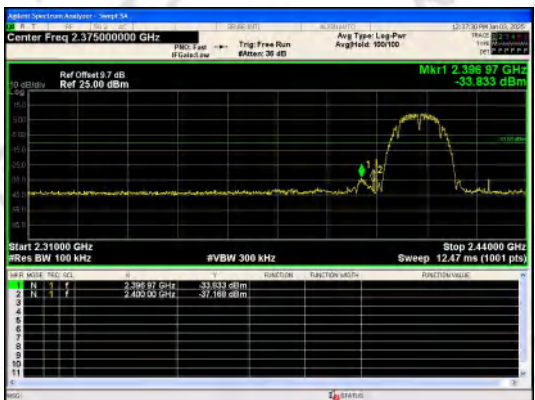
Test Result

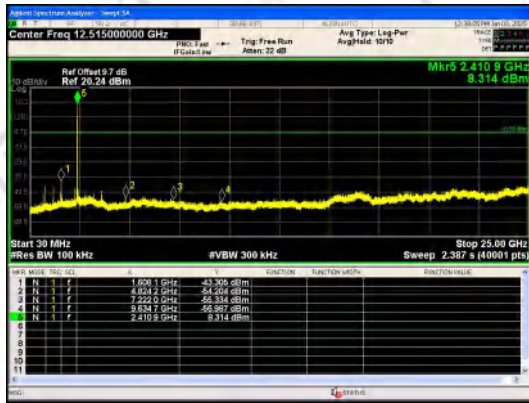
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	1608.10	-43.305	-10.58	-32.725	PASS
			2396.97	-33.833	-10.58	-23.253	PASS
			2400.00	-37.168	-10.58	-26.588	PASS
			4824.20	-54.204	-10.58	-43.624	PASS
			7222.00	-55.334	-10.58	-44.754	PASS
			9634.70	-56.987	-10.58	-46.407	PASS
	6		811.56	-42.210	-10.62	-31.590	PASS
			4874.18	-51.740	-10.62	-41.120	PASS
			7295.65	-55.825	-10.62	-45.205	PASS
			9747.70	-56.122	-10.62	-45.502	PASS
	11		1641.19	-43.760	-10.32	-33.440	PASS
			2483.50	-39.723	-10.32	-29.403	PASS
			4924.12	-51.021	-10.32	-40.701	PASS
			7386.16	-56.267	-10.32	-45.947	PASS
			9855.69	-57.098	-10.32	-46.778	PASS
IEEE 802.11g	1		2398.14	-28.511	-12.34	-16.171	PASS
			2400.00	-30.428	-12.34	-18.088	PASS
			4833.00	-56.664	-12.34	-44.324	PASS
			7240.10	-54.992	-12.34	-42.652	PASS
			9629.70	-55.910	-12.34	-43.570	PASS
			24667.3	-45.385	-12.34	-33.045	PASS
	6		809.69	-44.615	-12.39	-32.225	PASS
			4892.28	-56.137	-12.39	-43.747	PASS
			7315.62	-56.774	-12.39	-44.384	PASS
			9738.96	-56.811	-12.39	-44.421	PASS
	11		828.42	-41.686	-12.1	-29.586	PASS
			2483.50	-35.044	-12.1	-22.944	PASS
			4929.11	-56.663	-12.1	-44.563	PASS
			7396.77	-55.925	-12.1	-43.825	PASS
			9866.93	-57.751	-12.1	-45.651	PASS
IEEE 802.11n_20	1		2398.92	-26.398	-14.11	-12.288	PASS
			2400.00	-28.789	-14.11	-14.679	PASS
			4824.90	-56.949	-14.11	-42.839	PASS
			7232.60	-57.067	-14.11	-42.957	PASS
			9660.90	-56.910	-14.11	-42.800	PASS
			24724.7	-45.831	-14.11	-31.721	PASS
	6		4854.20	-56.350	-14.15	-42.200	PASS

IEEE 802.11n_40	11	7315.00	-57.252	-14.15	-43.102	PASS
		9755.19	-56.874	-14.15	-42.724	PASS
		24624.8	-45.416	-14.15	-31.266	PASS
		2483.50	-38.176	-14.28	-23.896	PASS
		4931.61	-55.894	-14.28	-41.614	PASS
		7388.66	-56.842	-14.28	-42.562	PASS
		9835.72	-58.114	-14.28	-43.834	PASS
		24980.0	-45.426	-14.28	-31.146	PASS
	3	2396.19	-27.567	-16.87	-10.697	PASS
		2400.00	-31.323	-16.87	-14.453	PASS
		4854.20	-56.660	-16.87	-39.790	PASS
		7282.50	-55.789	-16.87	-38.919	PASS
		9679.70	-57.605	-16.87	-40.735	PASS
		24697.9	-45.735	-16.87	-28.865	PASS
	6	4890.41	-55.674	-16.81	-38.864	PASS
		7296.89	-56.712	-16.81	-39.902	PASS
		9743.95	-56.636	-16.81	-39.826	PASS
		24749.7	-46.184	-16.81	-29.374	PASS
	9	2483.50	-36.022	-16.81	-19.212	PASS
		4936.60	-56.346	-16.81	-39.535	PASS
		7321.86	-57.155	-16.81	-40.345	PASS
		9778.29	-57.636	-16.81	-40.826	PASS
		24708.5	-45.148	-16.81	-28.338	PASS

Note:Offset=cable loss=1.22dB

Test Graphs

	
In-Band Reference Level IEEE 802.11b_Channel 1_20MHz_Antenna 0	Out Of Band Emission IEEE 802.11b_Channel 1_20MHz_Antenna 0



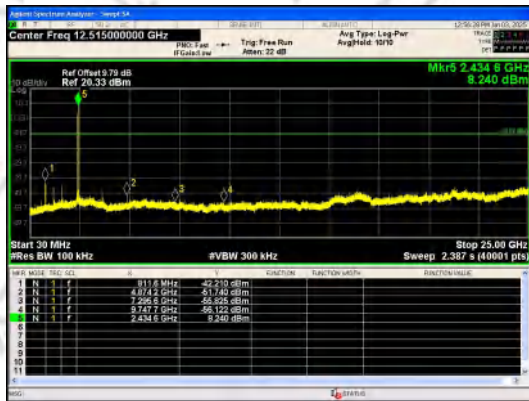
30.0 MHz - 25000.0 MHz

IEEE 802.11b_Channel 1_20MHz_Antenna 0



In-Band Reference Level

IEEE 802.11b_Channel 6_20MHz_Antenna 0



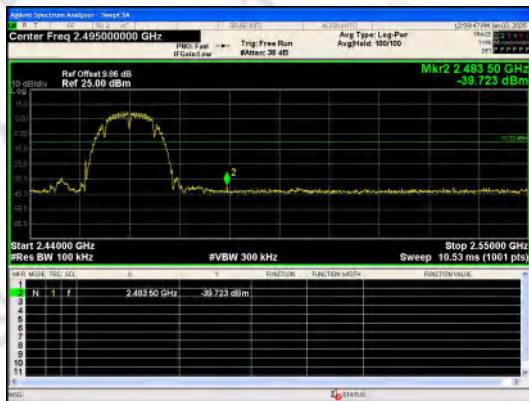
30.0 MHz - 25000.0 MHz

IEEE 802.11b_Channel 6_20MHz_Antenna 0



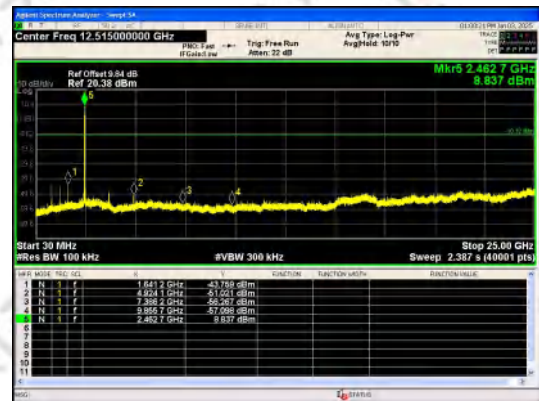
In-Band Reference Level

IEEE 802.11b_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11b_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz

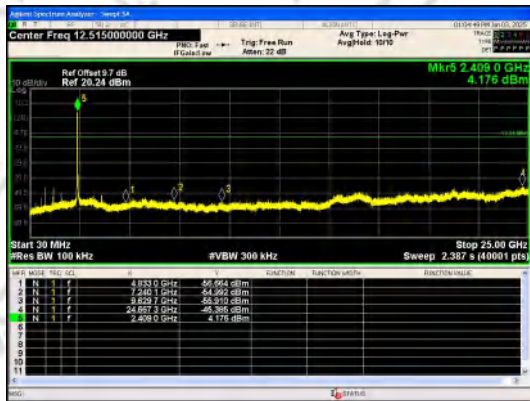
IEEE 802.11b_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



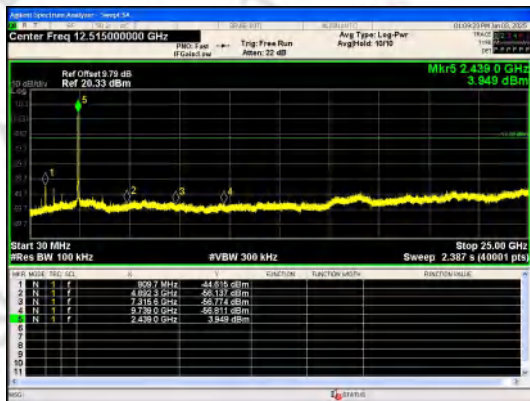
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



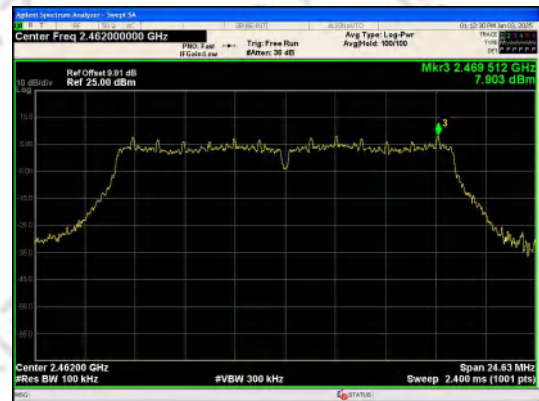
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0

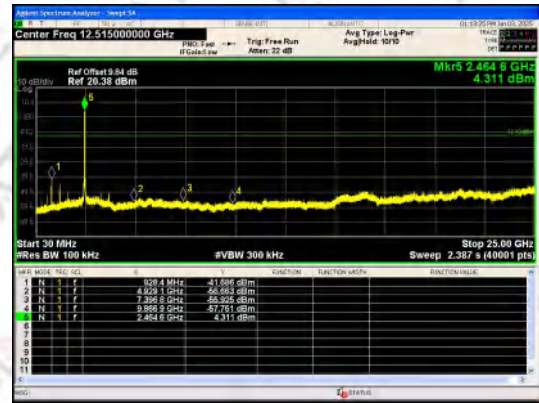


In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11g_Channel 11_20MHz_Antenna 0



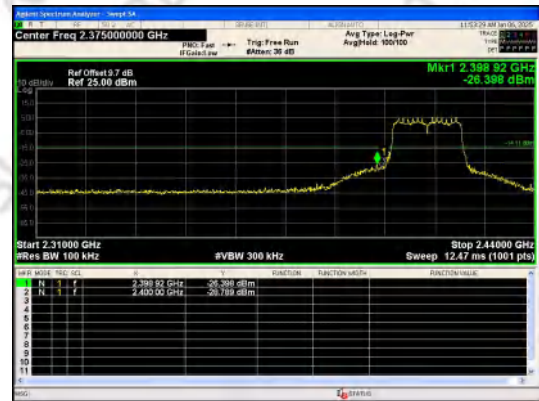
30.0 MHz - 25000.0 MHz

IEEE 802.11g_Channel 11_20MHz_Antenna 0



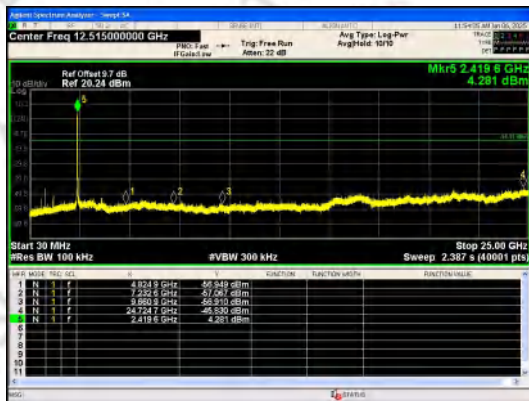
In-Band Reference Level

IEEE 802.11n_Channel 1_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11n_Channel 1_20MHz_Antenna 0



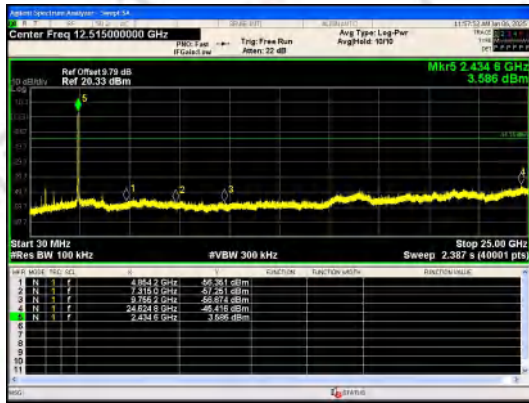
30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 1_20MHz_Antenna 0



In-Band Reference Level

IEEE 802.11n_Channel 6_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 6_20MHz_Antenna 0



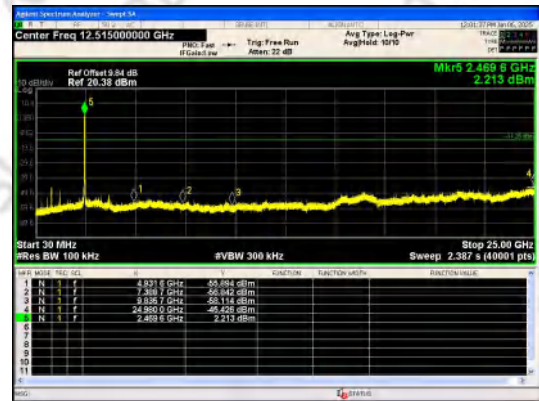
In-Band Reference Level

IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission

IEEE 802.11n_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 11_20MHz_Antenna 0



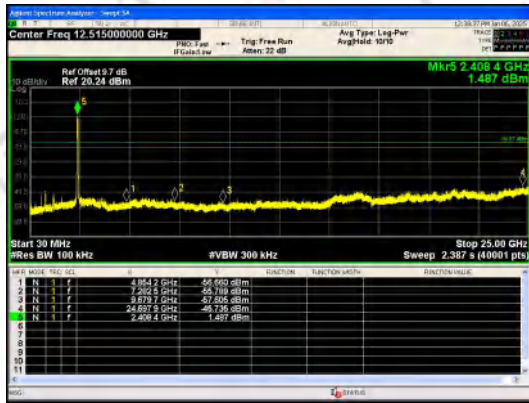
In-Band Reference Level

IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission

IEEE 802.11n_Channel 3_40MHz_Antenna 0



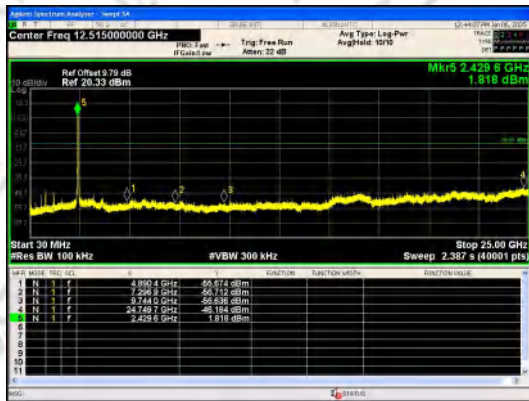
30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 3_40MHz_Antenna 0



In-Band Reference Level

IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 6_40MHz_Antenna 0



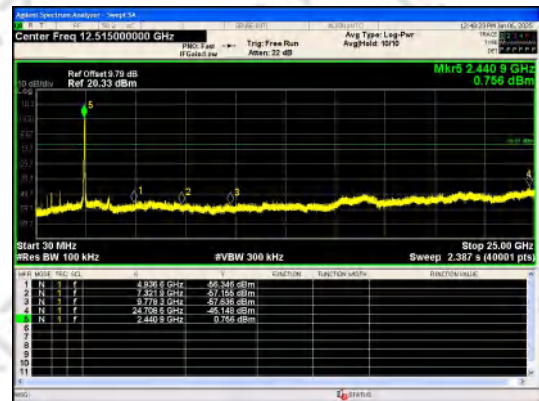
In-Band Reference Level

IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission

IEEE 802.11n_Channel 9_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz

IEEE 802.11n_Channel 9_40MHz_Antenna 0

*****END OF APPENDIX A*****

Appendix B _ Radiated Test Data and AC Power-Line Conducted Emission

Appendix B1.Radiated spurious emissions

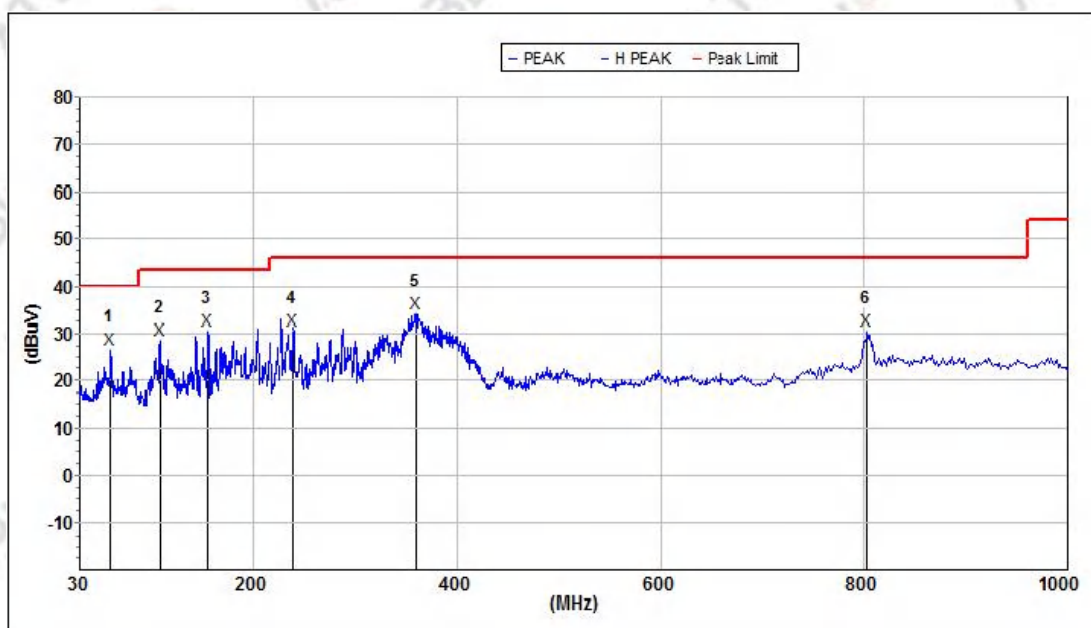
9 kHz-30 MHz

- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 2.The all data rate modes had been test, but only worse test data was recorded in the test report.

For 30 MHz ~ 1 GHz

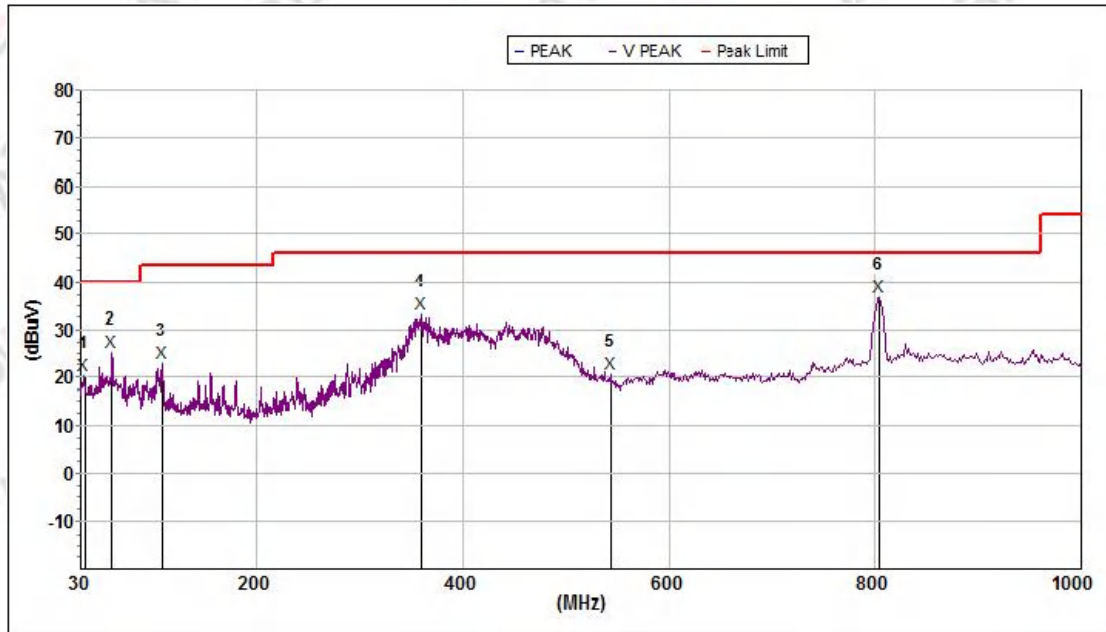
Note:All modes have been tested, only worst case mode was recorded in the test report if no any others.

802.11b 2412 Horizontal



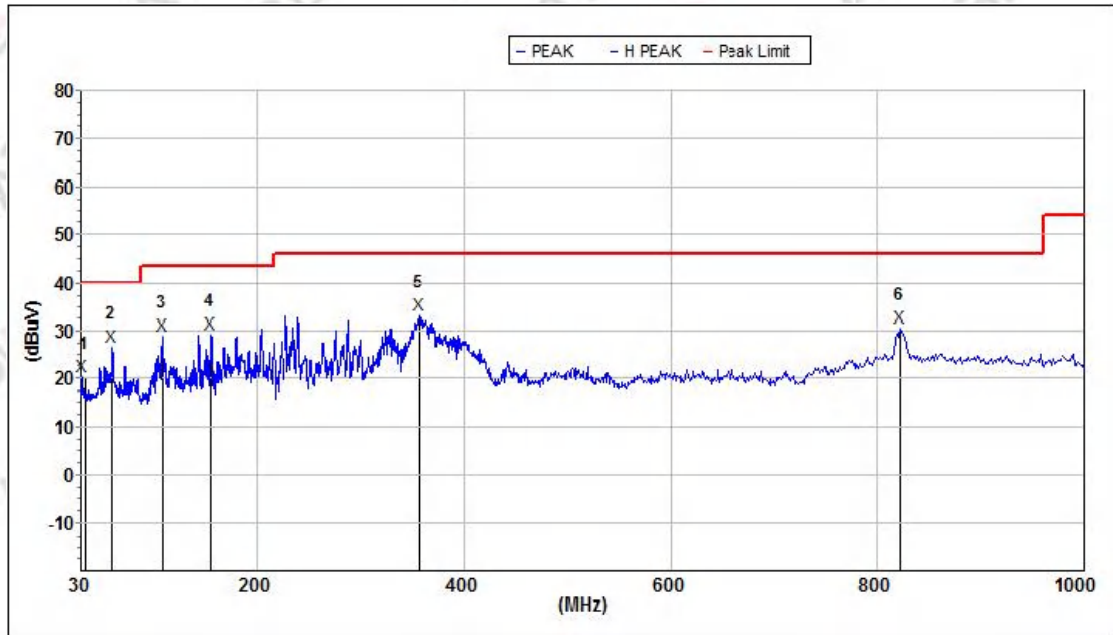
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	60.069	26.7	40.0	13.3	200	17.9	29.6	H
2	107.510	28.6	43.5	14.9	100	15.4	31.6	H
3	155.910	30.8	43.5	12.7	300	18.8	33.6	H
4	239.567	30.6	46.0	15.4	200	17.2	32.5	H
5	359.816	34.2	46.0	11.8	100	20.4	32.4	H
6	803.193	30.5	46.0	15.5	200	28.5	31.5	H

802.11b 2412 Vertical



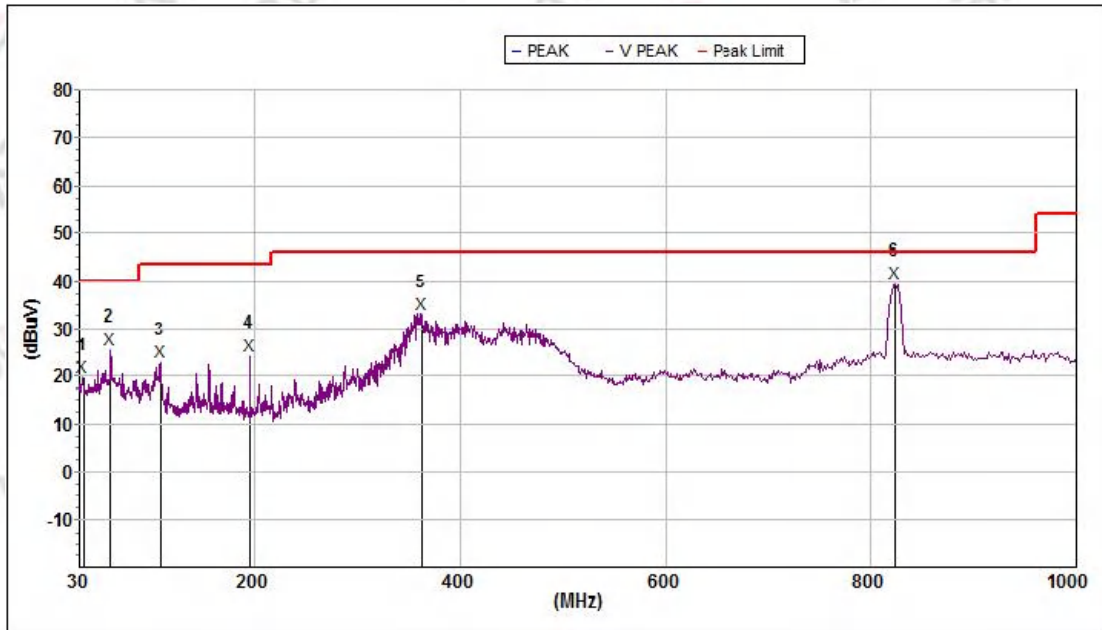
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	32.864	20.3	40.0	19.7	200	18.6	29.5	V
2	60.069	25.3	40.0	14.7	100	17.9	29.6	V
3	108.077	23.1	43.5	20.4	300	15.5	31.7	V
4	359.816	33.4	46.0	12.6	200	20.4	32.4	V
5	542.323	20.7	46.0	25.3	100	24.5	32.2	V
6	804.603	36.8	46.0	9.2	200	28.5	31.6	V

802.11b 2462 Horizontal



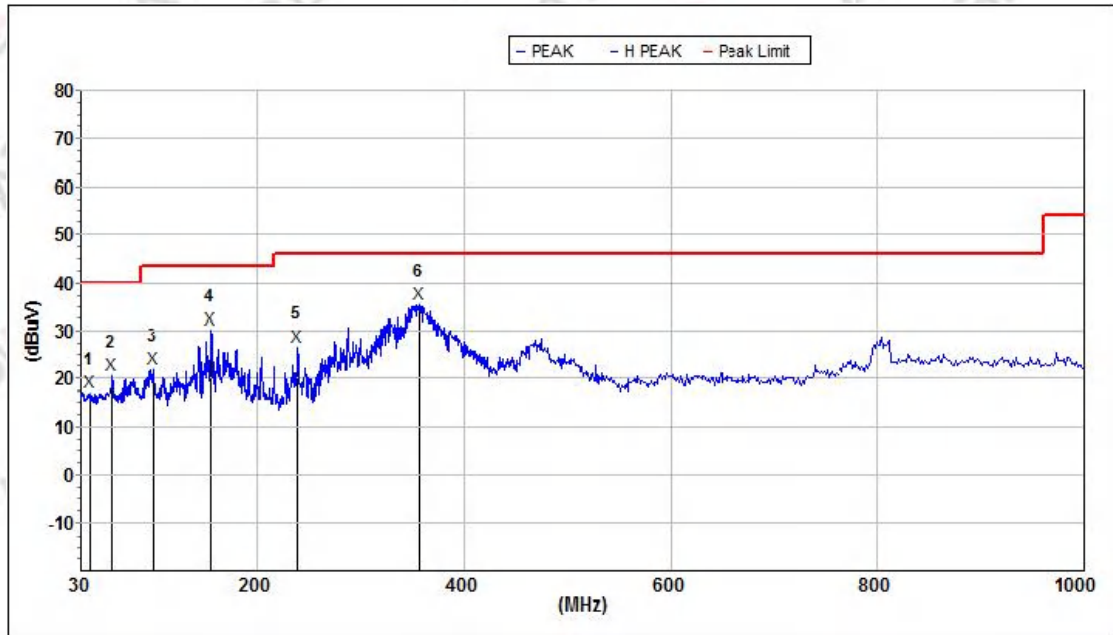
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	31.454	20.3	40.0	19.7	200	18.5	29.4	H
2	60.069	26.7	40.0	13.3	100	17.9	29.6	H
3	108.077	29.0	43.5	14.5	300	15.5	31.7	H
4	155.910	29.4	43.5	14.1	200	18.8	33.6	H
5	356.676	33.2	46.0	12.8	100	20.4	32.4	H
6	821.710	30.8	46.0	15.2	200	28.6	31.8	H

802.11b 2462 Vertical



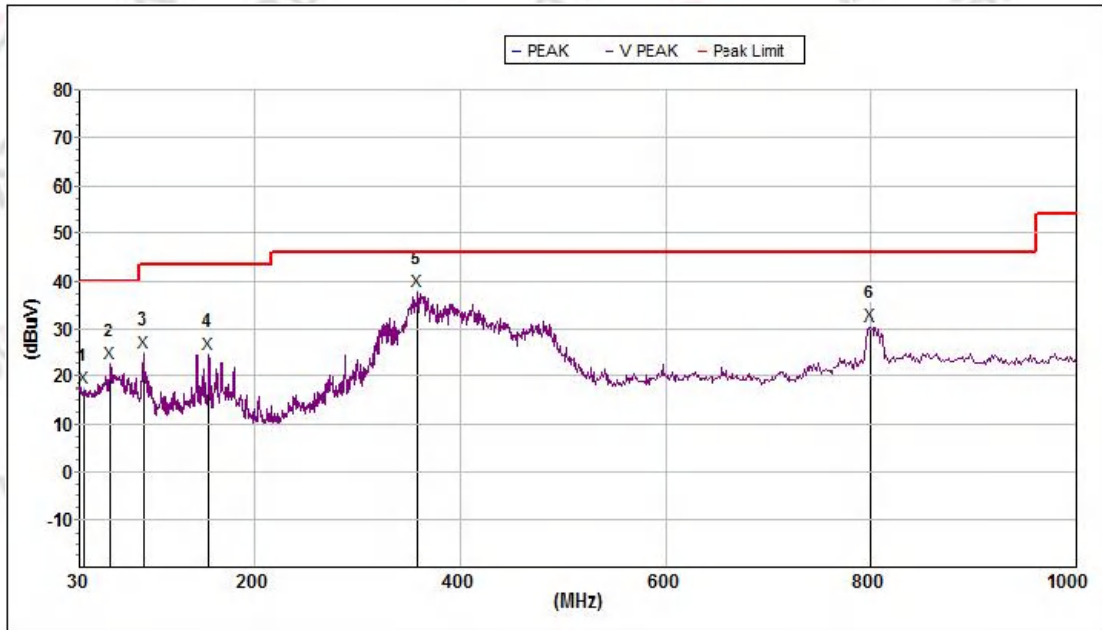
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	32.864	19.7	40.0	20.3	200	18.6	29.5	V
2	60.069	25.6	40.0	14.4	100	17.9	29.6	V
3	107.510	23.2	43.5	20.3	300	15.4	31.6	V
4	195.136	24.3	43.5	19.2	200	16.1	33.3	V
5	362.984	33.0	46.0	13.0	100	20.5	32.4	V
6	823.152	39.5	46.0	6.5	200	28.6	31.8	V

802.11g 2412 Horizontal



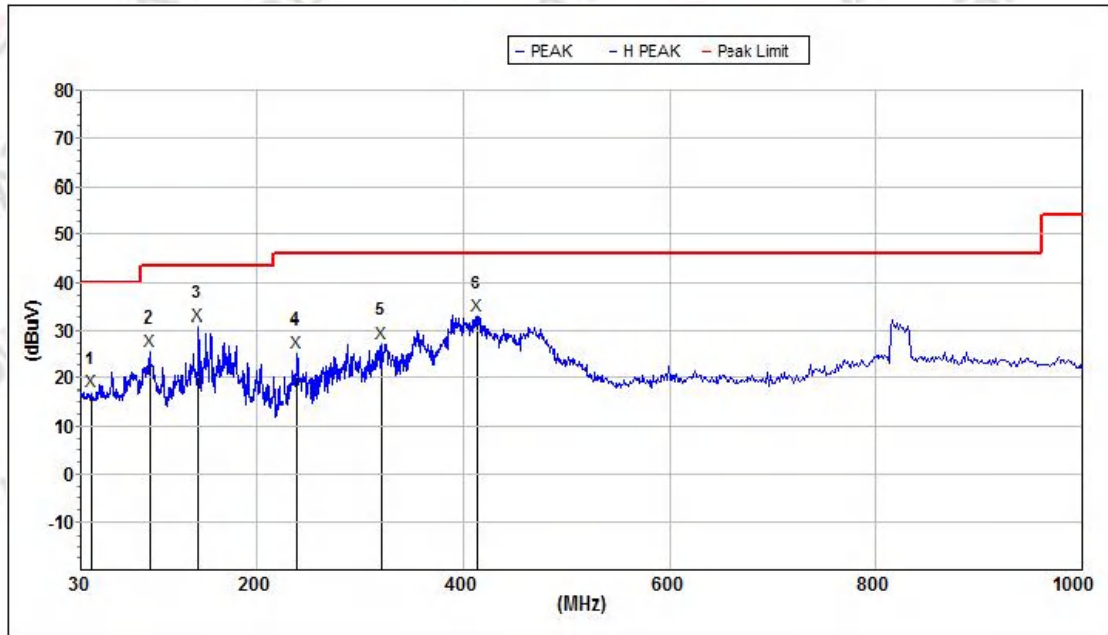
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	38.684	17.2	40.0	22.8	200	18.9	29.6	H
2	60.069	20.7	40.0	19.3	100	17.9	29.6	H
3	98.833	22.0	43.5	21.5	300	14.8	31.2	H
4	155.910	30.4	43.5	13.1	200	18.8	33.6	H
5	239.987	26.7	46.0	19.3	100	17.2	32.5	H
6	356.676	35.6	46.0	10.4	200	20.4	32.4	H

802.11g 2412 Vertical



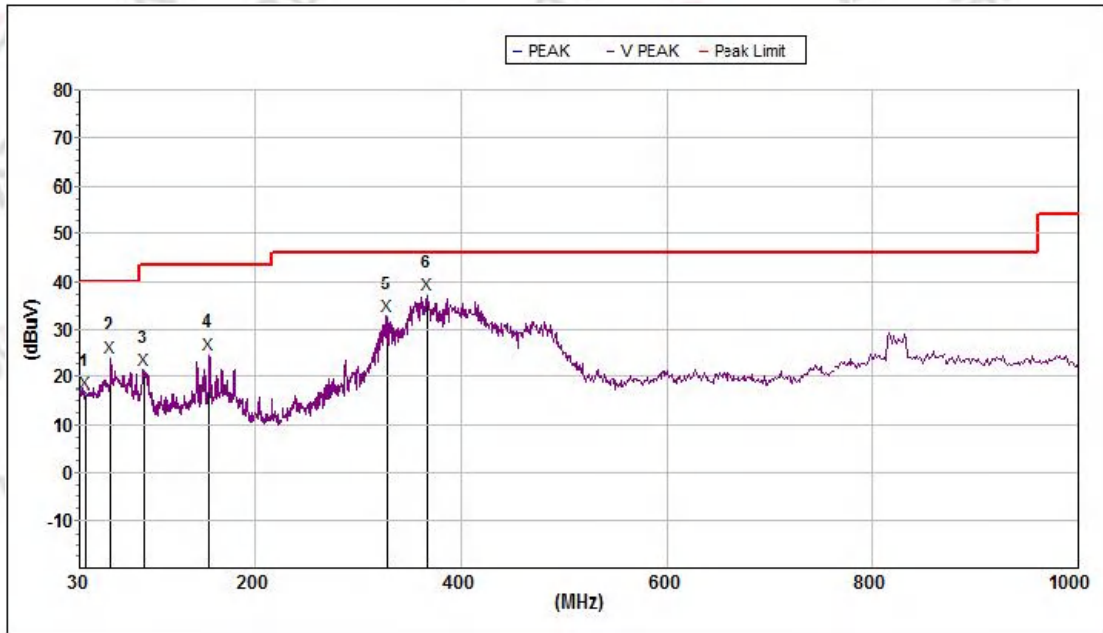
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	33.977	17.5	40.0	22.5	200	18.6	29.5	V
2	60.069	22.8	40.0	17.2	100	17.9	29.6	V
3	91.495	25.1	43.5	18.4	300	14.8	30.4	V
4	155.910	24.7	43.5	18.8	200	18.8	33.6	V
5	359.186	37.9	46.0	8.1	100	20.4	32.4	V
6	798.980	30.8	46.0	15.2	200	28.5	31.5	V

802.11g 2462 Horizontal



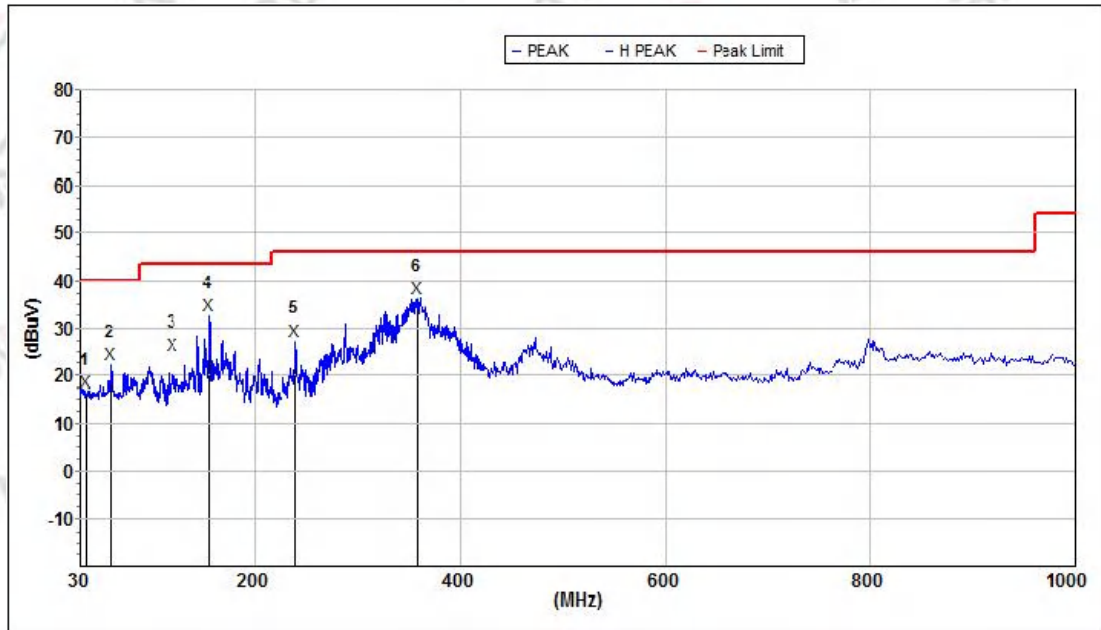
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	40.630	17.1	40.0	22.9	200	19.0	29.6	H
2	96.436	25.6	43.5	17.9	100	14.8	30.9	H
3	143.830	31.1	43.5	12.4	300	18.7	33.3	H
4	239.987	25.5	46.0	20.5	200	17.2	32.5	H
5	320.498	27.5	46.0	18.5	100	19.6	32.1	H
6	413.996	33.1	46.0	12.9	200	21.8	32.5	H

802.11g 2462 Vertical



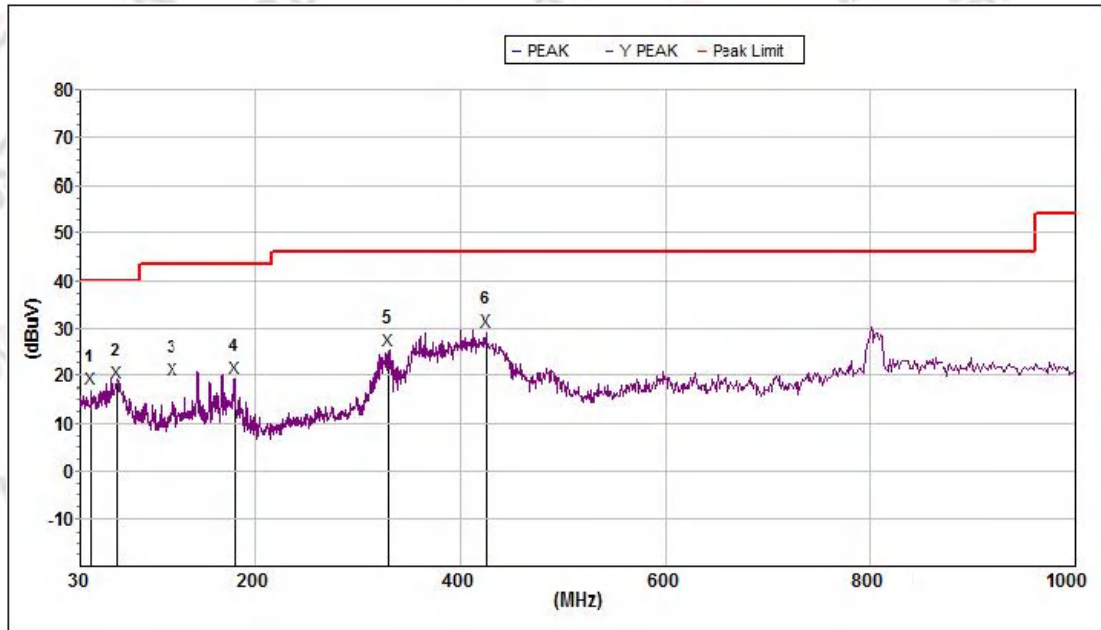
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	36.573	16.5	40.0	23.5	200	18.8	29.5	V
2	60.069	24.2	40.0	15.8	100	17.9	29.6	V
3	91.495	21.4	43.5	22.1	300	14.8	30.4	V
4	155.910	24.9	43.5	18.6	200	18.8	33.6	V
5	328.463	32.6	46.0	13.4	100	19.8	32.2	V
6	367.467	37.2	46.0	8.8	200	20.6	32.3	V

802.11n20 2412 Horizontal



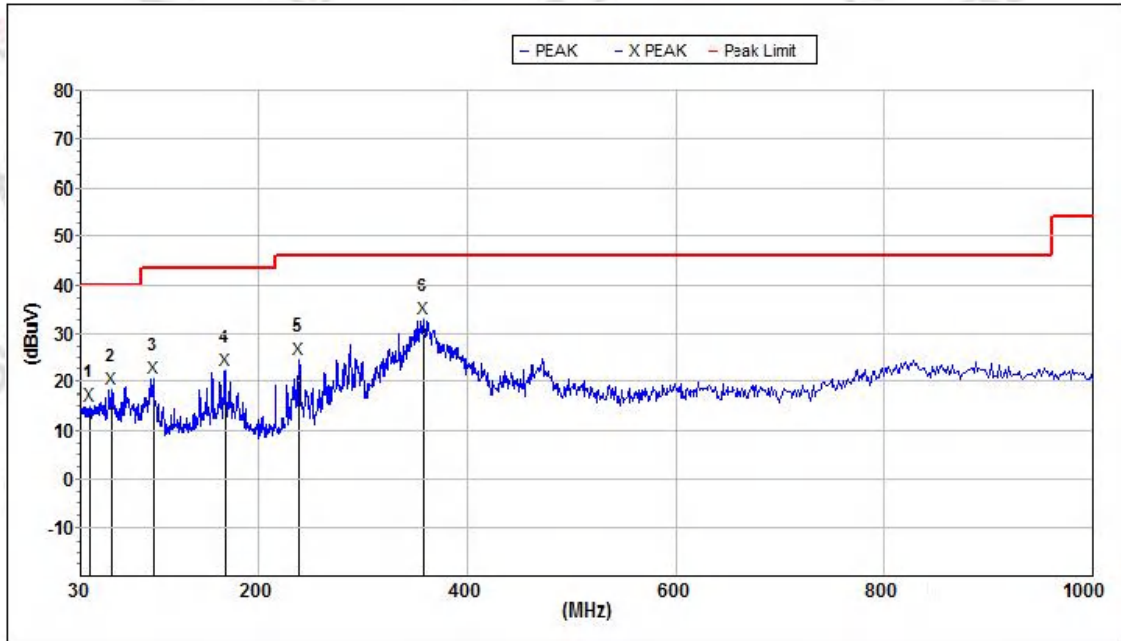
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	35.499	16.4	40.0	23.6	200	18.7	29.5	H
2	60.069	22.5	40.0	17.5	100	17.9	29.6	H
3	120.066	24.4	43.5	19.1	300	16.6	32.2	H
4	155.910	32.7	43.5	10.8	200	18.8	33.6	H
5	239.987	27.5	46.0	18.5	100	17.2	32.5	H
6	359.186	36.1	46.0	9.9	200	20.4	32.4	H

802.11n20 2412 Vertical



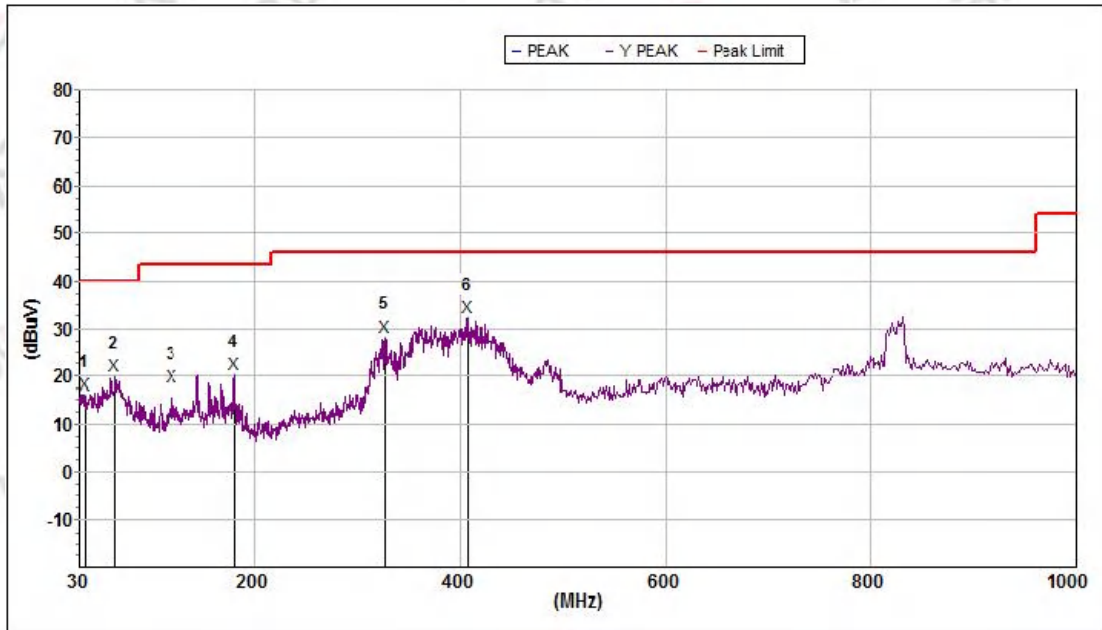
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	40.630	17.3	40.0	22.7	200	19.0	29.6	V
2	64.887	18.5	40.0	21.5	100	17.2	29.5	V
3	119.646	19.0	43.5	24.5	300	16.5	32.2	V
4	179.701	19.4	43.5	24.1	200	17.1	33.4	V
5	329.616	25.3	46.0	20.7	100	19.8	32.3	V
6	425.028	29.3	46.0	16.7	200	22.2	32.9	V

802.11n20 2462 Horizontal



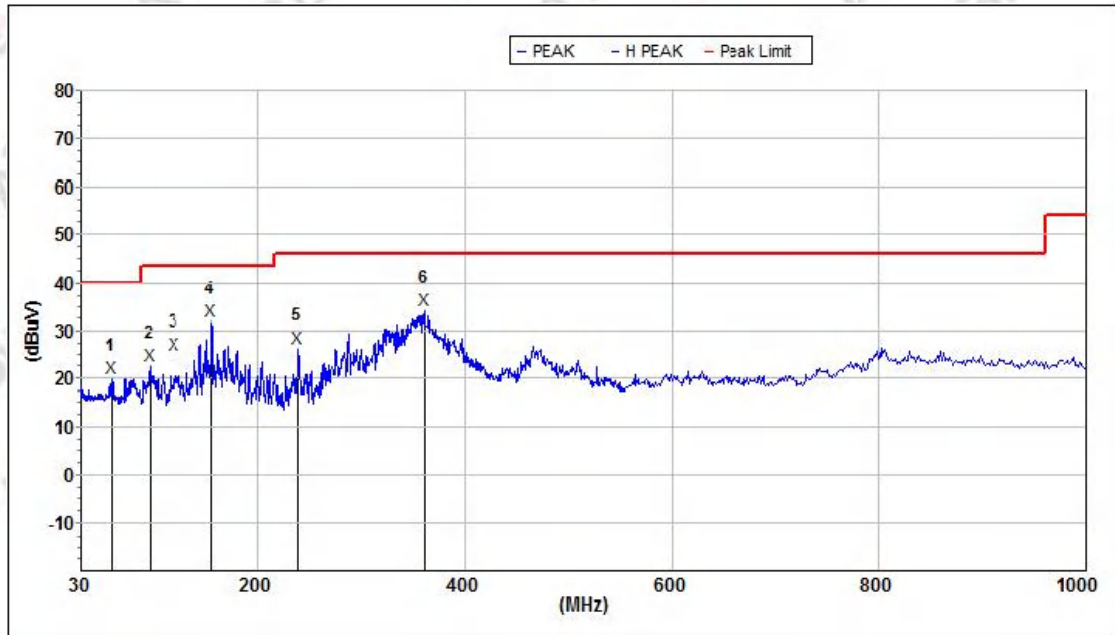
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	38.684	15.1	40.0	24.9	200	18.9	29.6	H
2	59.545	18.6	40.0	21.4	100	18.0	29.6	H
3	98.833	20.8	43.5	22.7	300	14.8	31.2	H
4	168.119	22.3	43.5	21.2	200	18.0	33.5	H
5	239.987	24.8	46.0	21.2	100	17.2	32.5	H
6	359.186	33.0	46.0	13.0	200	20.4	32.4	H

802.11n20 2462 Vertical



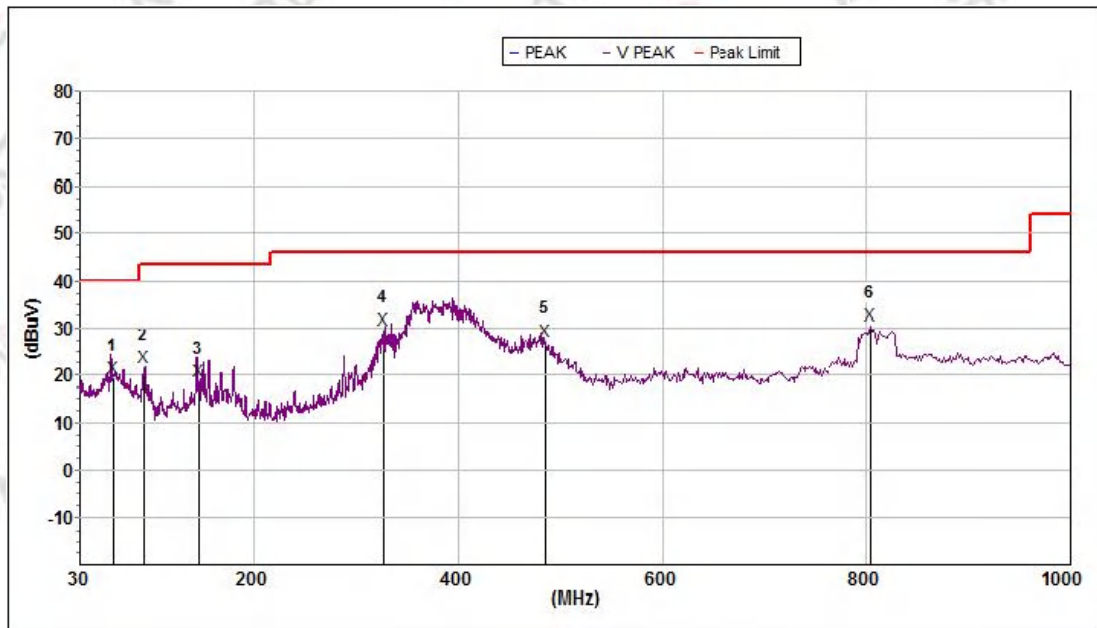
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	35.812	16.3	40.0	23.7	200	18.7	29.5	V
2	64.433	20.0	40.0	20.0	100	17.2	29.5	V
3	120.066	17.8	43.5	25.7	300	16.6	32.2	V
4	179.701	20.4	43.5	23.1	200	17.1	33.4	V
5	326.740	28.2	46.0	17.8	100	19.7	32.2	V
6	406.801	32.3	46.0	13.7	200	21.6	32.2	V

802.11n40 2422 Horizontal



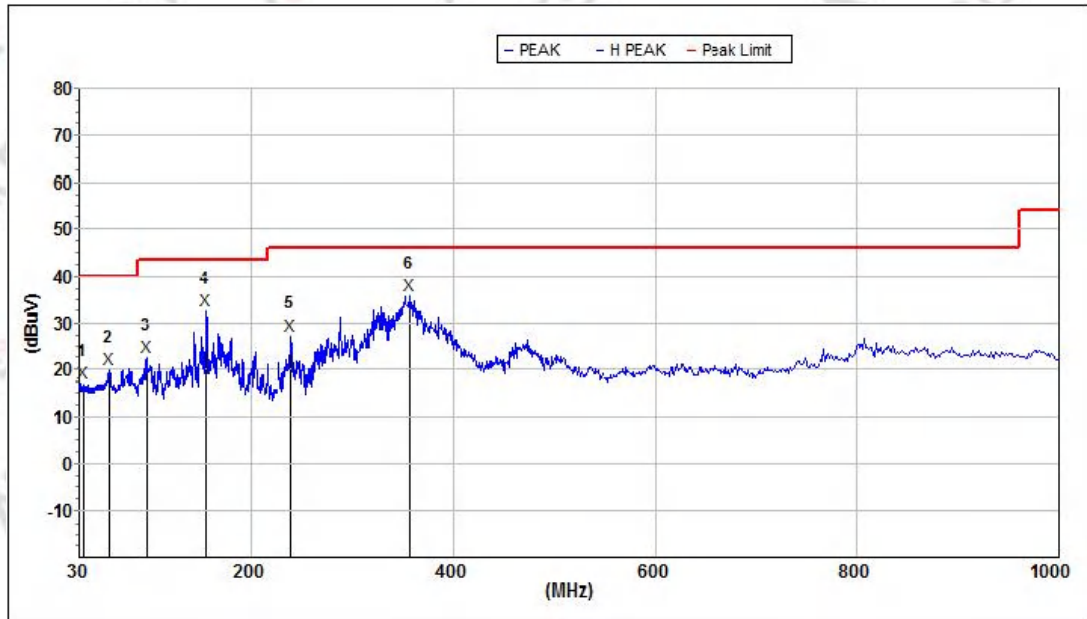
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	60.069	20.1	40.0	19.9	200	17.9	29.6	H
2	95.930	22.7	43.5	20.8	100	14.8	30.9	H
3	120.066	25.0	43.5	18.5	300	16.6	32.2	H
4	155.910	32.1	43.5	11.4	200	18.8	33.6	H
5	239.987	26.5	46.0	19.5	100	17.2	32.5	H
6	361.714	34.4	46.0	11.6	200	20.5	32.4	H

802.11n40 2422 Vertical



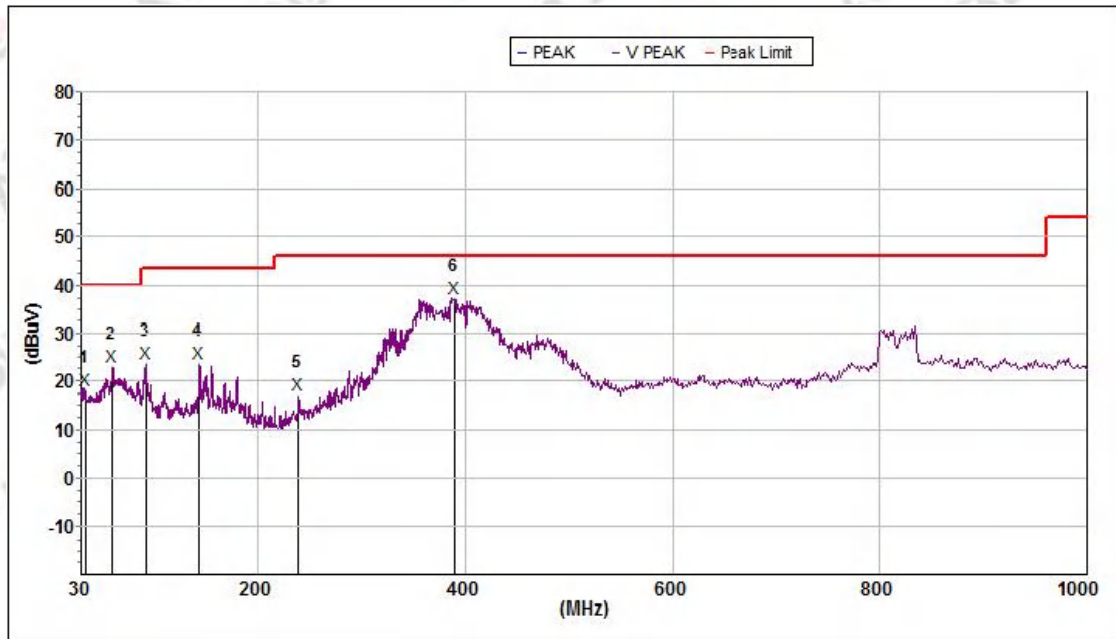
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	61.886	19.6	40.0	20.4	300	17.7	29.5	V
2	91.977	21.8	43.5	21.7	100	14.8	30.4	V
3	146.630	18.8	43.5	24.7	200	18.9	33.4	V
4	326.740	29.6	46.0	16.4	100	19.7	32.2	V
5	485.609	27.4	46.0	18.6	300	23.3	32.7	V
6	804.603	30.7	46.0	15.3	200	28.5	31.6	V

802.11n40 2452 Horizontal



Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	34.821	17.2	40.0	22.8	200	18.7	29.5	H
2	60.069	20.0	40.0	20.0	100	17.9	29.6	H
3	95.930	22.7	43.5	20.8	300	14.8	30.9	H
4	155.910	32.6	43.5	10.9	200	18.8	33.6	H
5	239.987	27.4	46.0	18.6	100	17.2	32.5	H
6	357.302	35.9	46.0	10.1	200	20.4	32.4	H

802.11n40 2452 Vertical



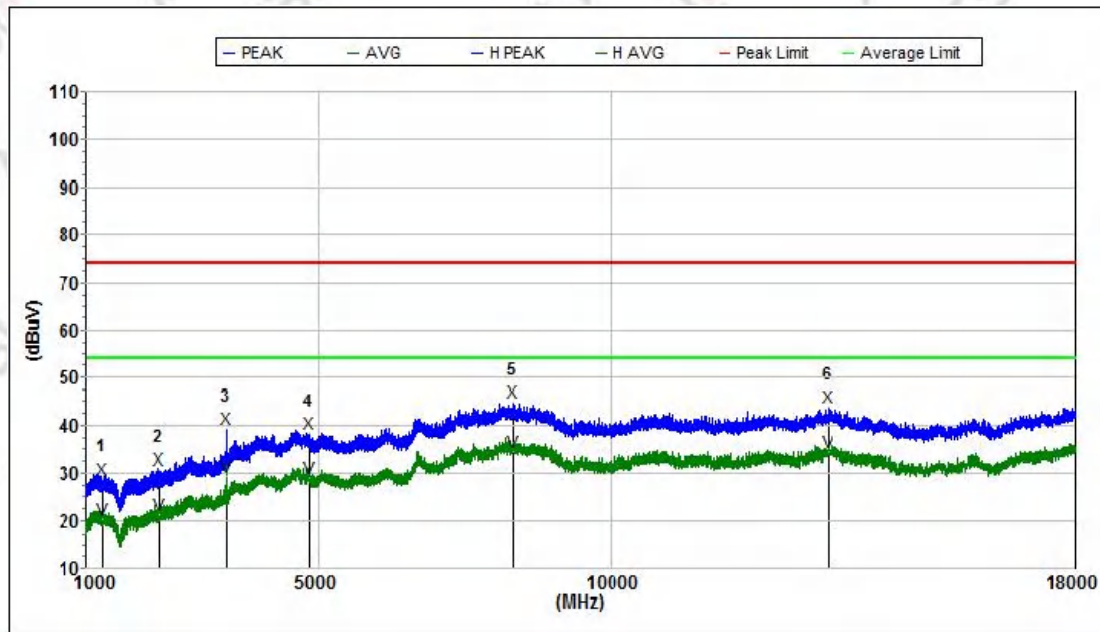
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	33.858	18.0	40.0	22.0	200	18.6	29.5	V
2	60.069	23.0	40.0	17.0	100	17.9	29.6	V
3	91.495	23.7	43.5	19.8	300	14.8	30.4	V
4	143.830	23.7	43.5	19.8	200	18.7	33.3	V
5	239.987	17.3	46.0	28.7	100	17.2	32.5	V
6	389.355	37.4	46.0	8.6	200	21.2	32.1	V

Above 1GHz

Note:

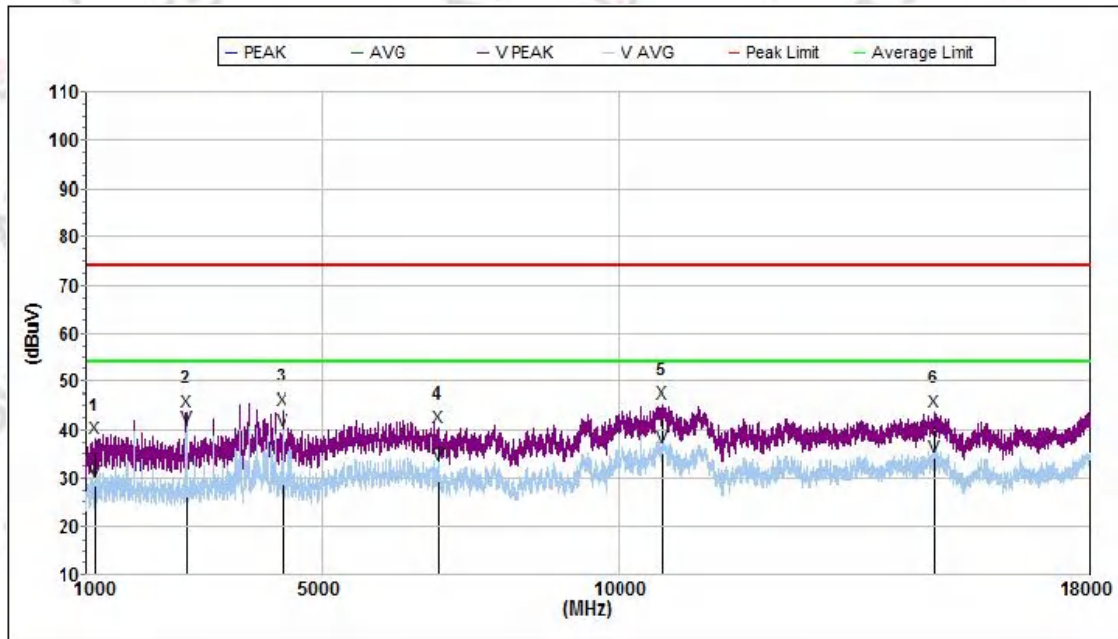
- 1.The all data rate modes had been test, but only worse test data was recorded in the test report.
- 2.In frequency ranges above 18GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.
- 3.We used the filter to test and the main frequency was filtered out.

802.11b 2412 Horizontal



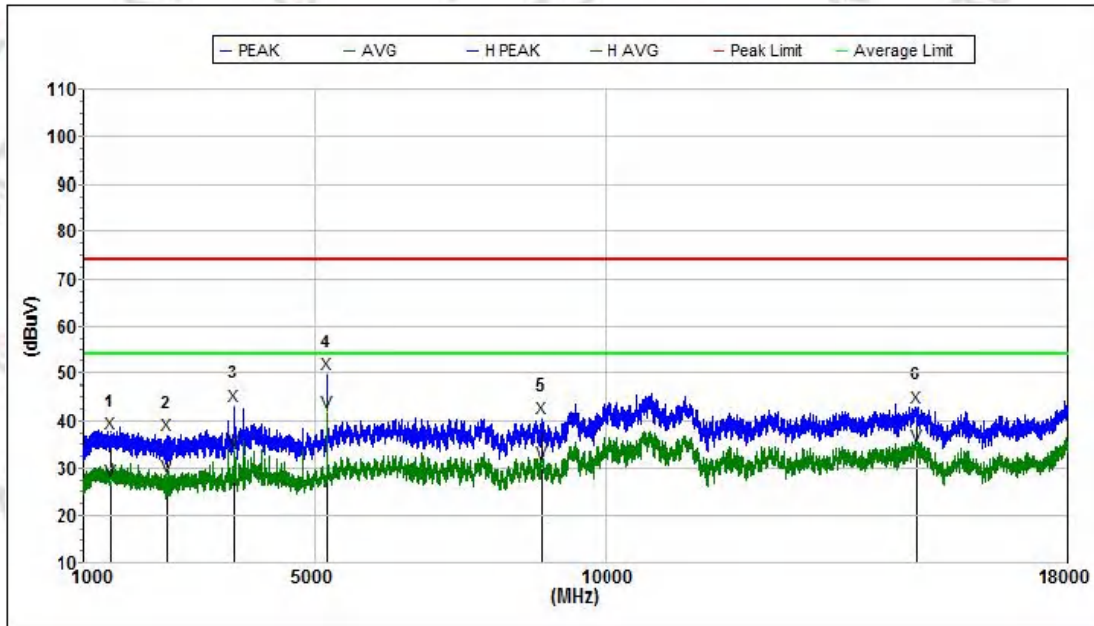
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1272.686	28.9	74.0	45.1	200	25.6	58.2	H
2	2257.898	30.8	74.0	43.2	100	27.1	59.5	H
3	3403.960	39.3	74.0	34.7	300	29.5	58.3	H
4	4837.202	38.3	74.0	35.7	200	32.6	59.7	H
5	8336.686	45.0	74.0	29.0	100	37.2	60.6	H
6	13752.297	43.8	74.0	30.2	200	39.8	59.5	H
Avg								
1	1272.686	20.3	54.0	33.7	200	25.6	58.2	H
2	2257.898	21.3	54.0	32.7	100	27.1	59.5	H
3	3403.960	29.5	54.0	24.5	300	29.5	58.3	H
4	4837.202	29.1	54.0	24.9	200	32.6	59.7	H
5	8336.686	34.5	54.0	19.5	100	37.2	60.6	H
6	13752.297	34.3	54.0	19.7	200	39.8	59.5	H

802.11b 2412 Vertical



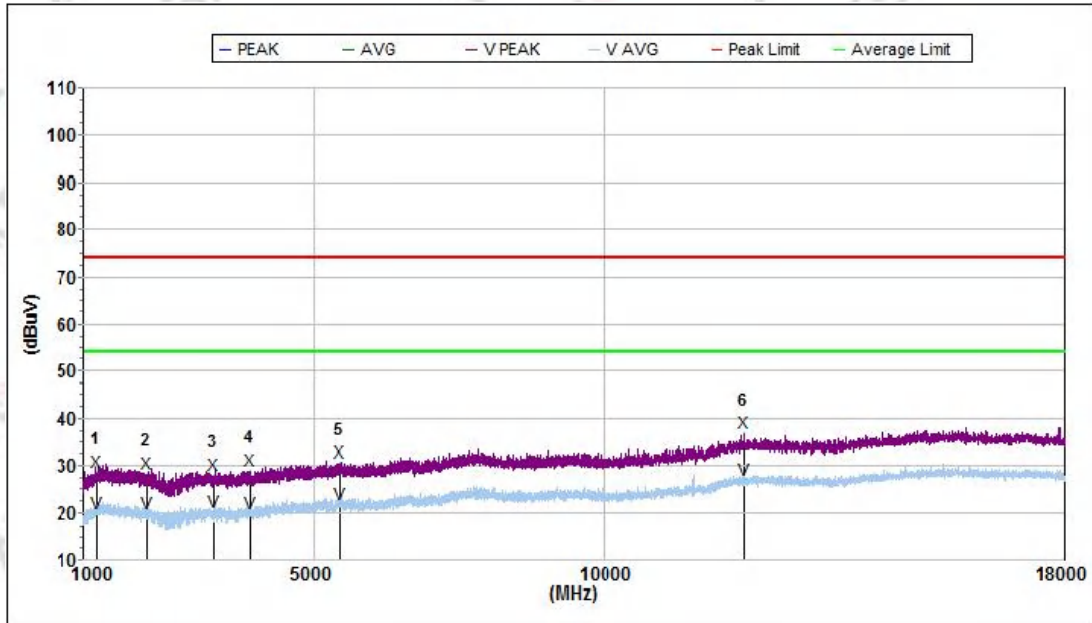
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1152.100	38.4	74.0	35.6	200	25.5	58.5	V
2	2700.100	44.0	74.0	30.0	100	28.3	59.3	V
3	4313.200	44.1	74.0	29.9	300	31.3	58.9	V
4	6963.100	40.7	74.0	33.3	200	35.9	60.4	V
5	10756.500	45.4	74.0	28.6	100	38.6	58.8	V
6	15346.800	44.0	74.0	30.0	200	38.9	58.9	V
Avg								
1	1152.100	29.4	54.0	24.6	200	25.5	58.5	V
2	2700.100	40.5	54.0	13.5	100	28.3	59.3	V
3	4313.200	39.9	54.0	14.1	300	31.3	58.9	V
4	6963.100	32.7	54.0	21.3	200	35.9	60.4	V
5	10756.500	36.3	54.0	17.7	100	38.6	58.8	V
6	15346.800	34.3	54.0	19.7	200	38.9	58.9	V

802.11b 2462 Horizontal



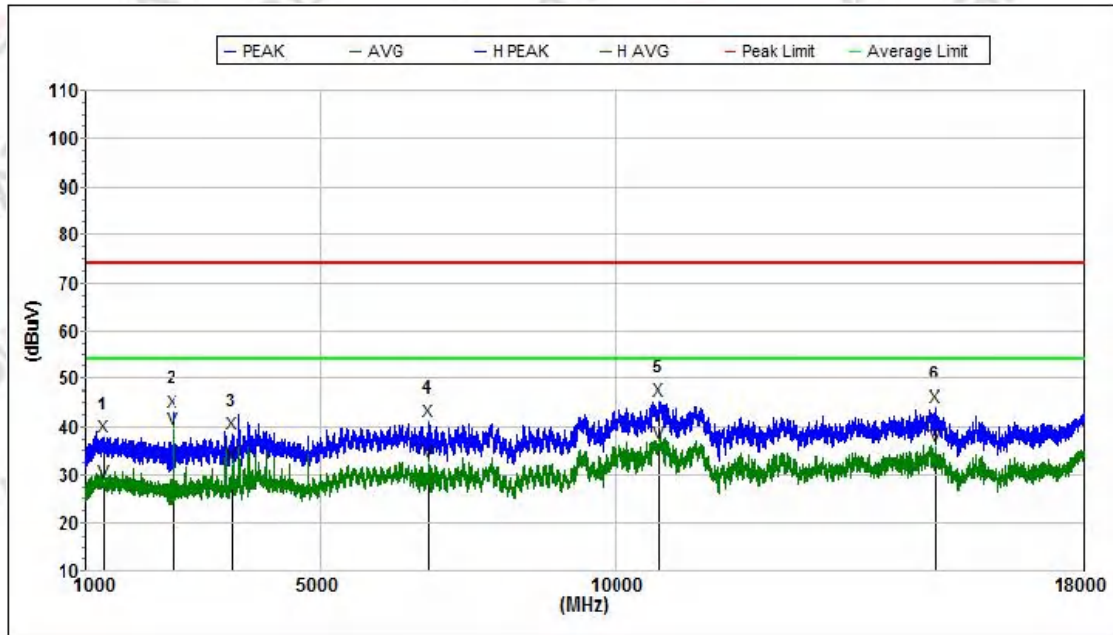
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1467.100	37.3	74.0	36.7	200	25.4	58.4	H
2	2431.000	37.0	74.0	37.0	100	27.5	59.6	H
3	3599.800	43.2	74.0	30.8	300	29.8	58.2	H
4	5206.600	49.9	74.0	24.1	200	33.0	59.2	H
5	8907.950	40.5	74.0	33.5	100	37.8	60.9	H
6	15369.350	42.9	74.0	31.1	200	38.8	58.9	H
Avg								
1	1467.100	27.5	54.0	26.5	200	25.4	58.4	H
2	2431.000	28.5	54.0	25.5	100	27.5	59.6	H
3	3599.800	33.8	54.0	20.2	300	29.8	58.2	H
4	5206.600	42.0	54.0	12.0	200	33.0	59.2	H
5	8907.950	31.1	54.0	22.9	100	37.8	60.9	H
6	15369.350	34.8	54.0	19.2	200	38.8	58.9	H

802.11b 2462 Vertical



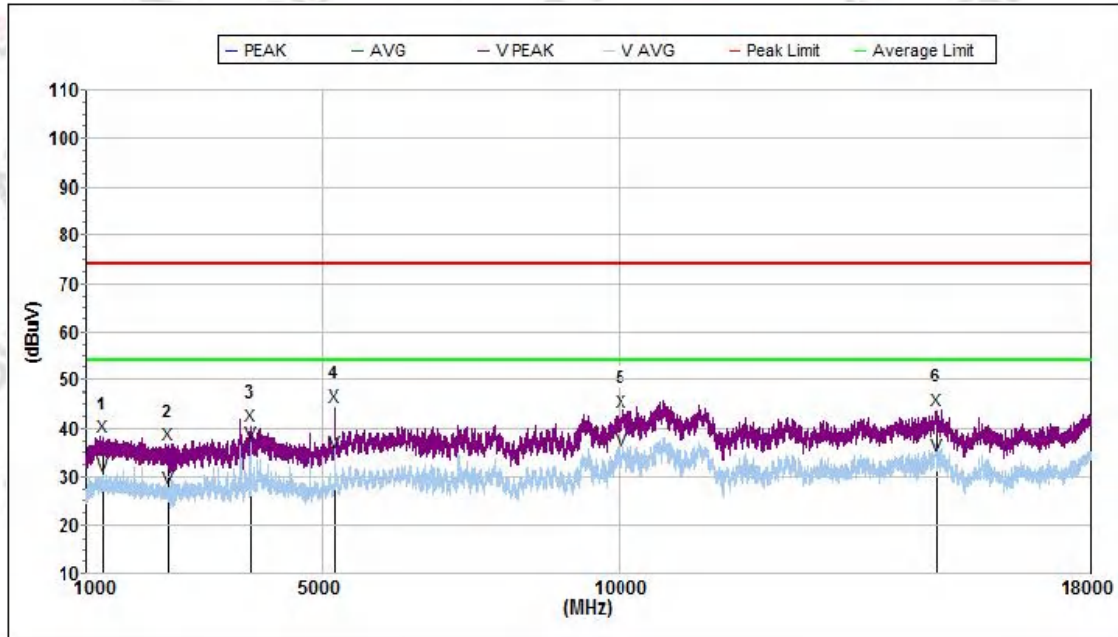
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1222.479	28.9	74.0	45.1	200	25.7	58.1	V
2	2096.103	28.3	74.0	45.7	100	26.7	59.3	V
3	3270.386	28.0	74.0	46.0	300	29.5	58.4	V
4	3876.785	29.1	74.0	44.9	200	30.6	58.0	V
5	5430.459	30.6	74.0	43.4	100	32.9	58.4	V
6	12453.402	37.0	74.0	37.0	200	39.3	59.2	V
Avg								
1	1222.479	19.9	54.0	34.1	200	25.7	58.1	V
2	2096.103	20.0	54.0	34.0	100	26.7	59.3	V
3	3270.386	20.1	54.0	33.9	300	29.5	58.4	V
4	3876.785	19.9	54.0	34.1	200	30.6	58.0	V
5	5430.459	21.8	54.0	32.2	100	32.9	58.4	V
6	12453.402	27.1	54.0	26.9	200	39.3	59.2	V

802.11g 2412 Horizontal



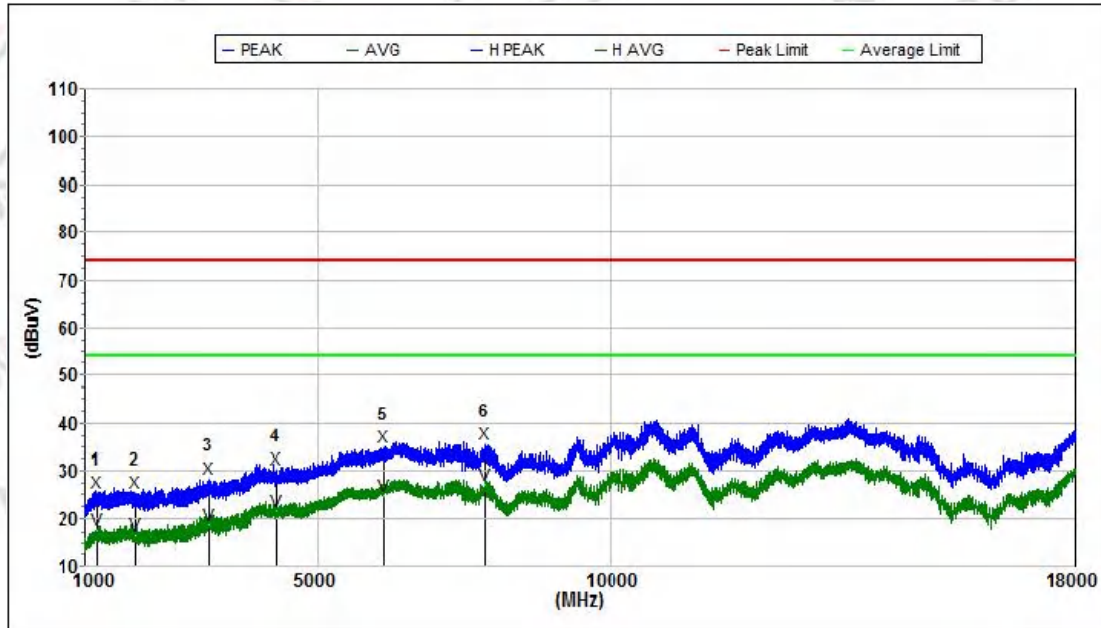
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1315.900	37.9	74.0	36.1	200	25.6	58.3	H
2	2475.100	43.2	74.0	30.8	100	27.6	59.7	H
3	3500.200	38.7	74.0	35.3	300	29.5	58.2	H
4	6847.600	41.3	74.0	32.7	200	35.8	59.9	H
5	10763.650	45.5	74.0	28.5	100	38.6	58.8	H
6	15462.300	44.1	74.0	29.9	200	38.8	59.1	H
Avg								
1	1315.900	28.6	54.0	25.4	200	25.6	58.3	H
2	2475.100	39.5	54.0	14.5	100	27.6	59.7	H
3	3500.200	32.5	54.0	21.5	300	29.5	58.2	H
4	6847.600	32.7	54.0	21.3	200	35.8	59.9	H
5	10763.650	36.8	54.0	17.2	100	38.6	58.8	H
6	15462.300	36.0	54.0	18.0	200	38.8	59.1	H

802.11g 2412 Vertical



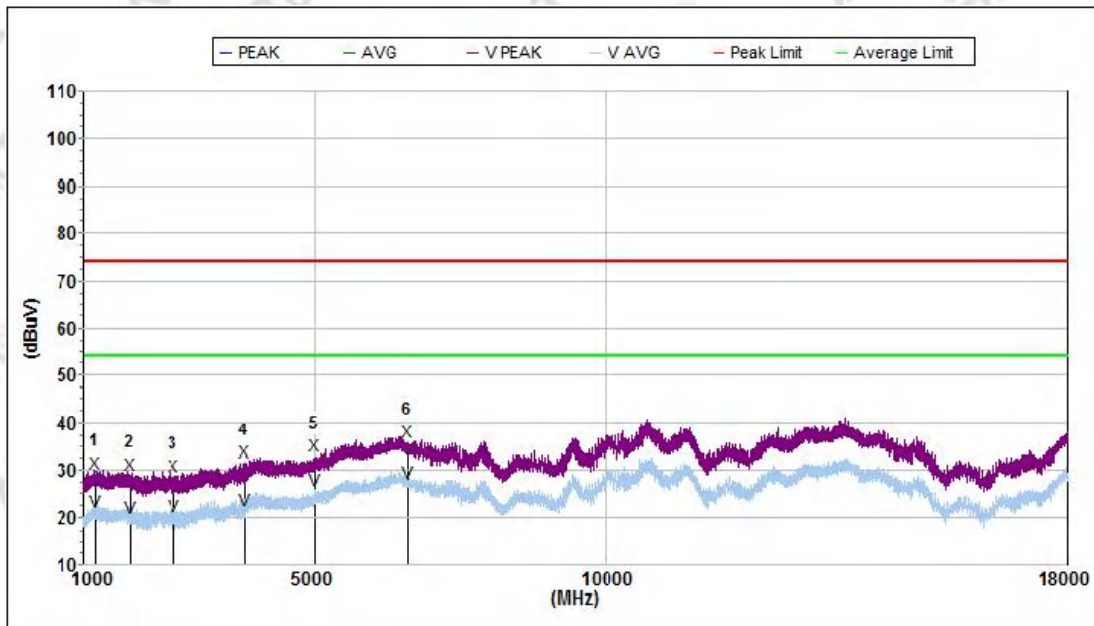
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1284.100	38.4	74.0	35.6	200	25.6	58.3	V
2	2365.000	36.8	74.0	37.2	100	27.3	59.6	V
3	3780.100	40.5	74.0	33.5	300	30.3	58.1	V
4	5210.500	44.7	74.0	29.3	200	33.0	59.2	V
5	10063.500	43.4	74.0	30.6	100	38.4	60.4	V
6	15371.000	43.8	74.0	30.2	200	38.8	58.9	V
Avg								
1	1284.100	30.3	54.0	23.7	200	25.6	58.3	V
2	2365.000	27.6	54.0	26.4	100	27.3	59.6	V
3	3780.100	37.0	54.0	17.0	300	30.3	58.1	V
4	5210.500	35.1	54.0	18.9	200	33.0	59.2	V
5	10063.500	35.2	54.0	18.8	100	38.4	60.4	V
6	15371.000	34.4	54.0	19.6	200	38.8	58.9	V

802.11g 2462 Horizontal



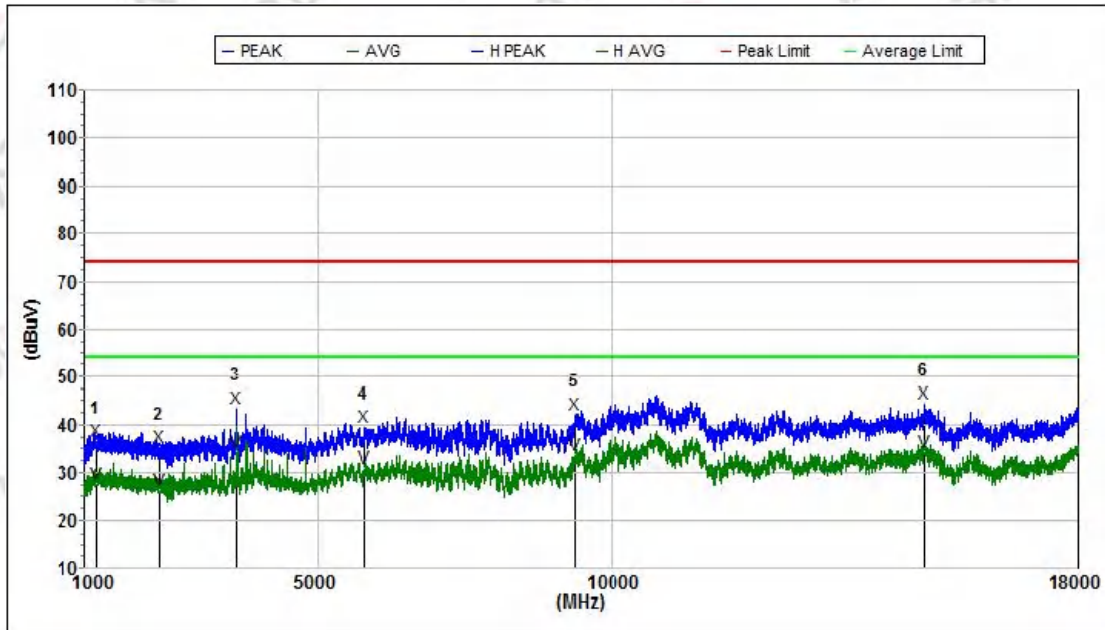
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1216.000	25.6	74.0	48.4	200	25.7	58.1	H
2	1853.500	25.5	74.0	48.5	100	25.4	58.3	H
3	3120.100	28.3	74.0	45.7	300	29.4	58.6	H
4	4278.400	30.4	74.0	43.6	200	31.3	58.8	H
5	6109.900	35.1	74.0	38.9	100	34.4	59.4	H
6	7858.550	35.6	74.0	38.4	200	36.8	59.7	H
Avg								
1	1216.000	17.5	54.0	36.5	200	25.7	58.1	H
2	1853.500	16.6	54.0	37.4	100	25.4	58.3	H
3	3120.100	18.7	54.0	35.3	300	29.4	58.6	H
4	4278.400	21.5	54.0	32.5	200	31.3	58.8	H
5	6109.900	24.9	54.0	29.1	100	34.4	59.4	H
6	7858.550	27.1	54.0	26.9	200	36.8	59.7	H

802.11g 2462 Vertical



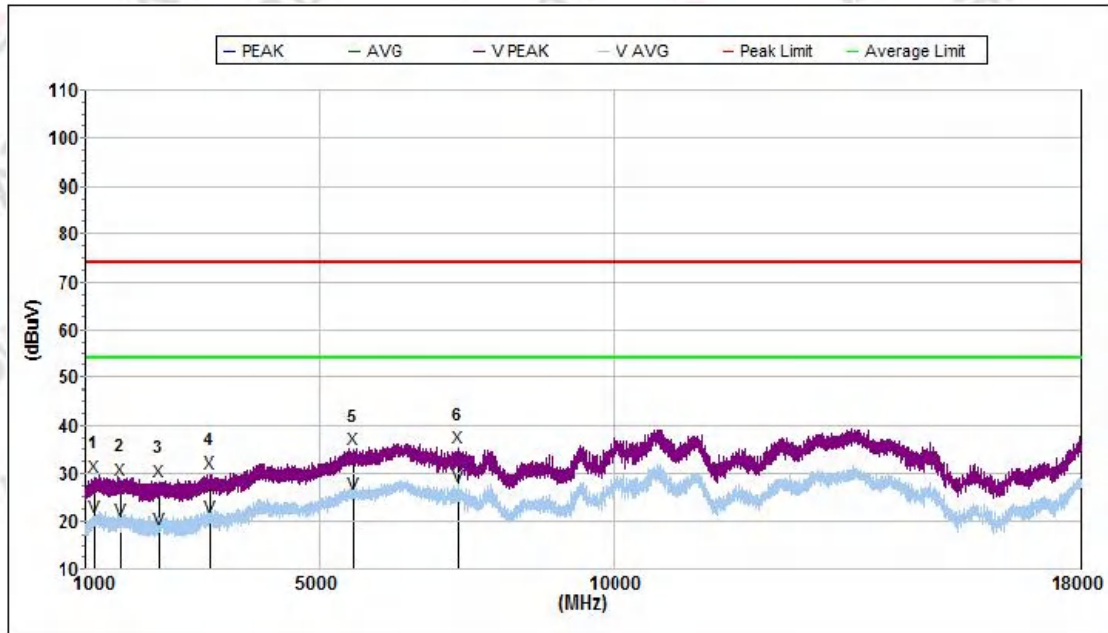
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1198.600	29.5	74.0	44.5	200	25.7	58.1	V
2	1793.200	29.2	74.0	44.8	100	25.1	58.0	V
3	2547.400	28.6	74.0	45.4	300	27.8	59.6	V
4	3764.800	31.7	74.0	42.3	200	30.3	58.1	V
5	4996.600	33.0	74.0	41.0	100	33.1	59.9	V
6	6613.600	35.9	74.0	38.1	200	35.4	59.0	V
Avg								
1	1198.600	21.2	54.0	32.8	200	25.7	58.1	V
2	1793.200	19.8	54.0	34.2	100	25.1	58.0	V
3	2547.400	20.3	54.0	33.7	300	27.8	59.6	V
4	3764.800	21.6	54.0	32.4	200	30.3	58.1	V
5	4996.600	25.8	54.0	28.2	100	33.1	59.9	V
6	6613.600	27.3	54.0	26.7	200	35.4	59.0	V

802.11n20 2412 Horizontal



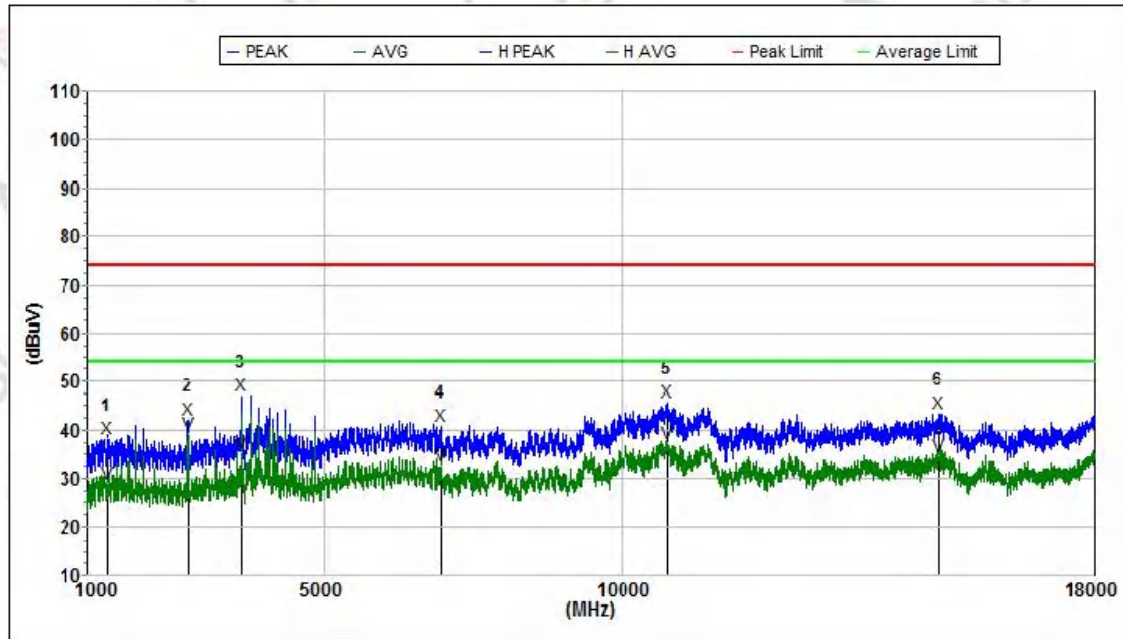
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1215.100	36.6	74.0	37.4	200	25.7	58.1	H
2	2283.100	35.2	74.0	38.8	100	27.1	59.5	H
3	3595.300	43.5	74.0	30.5	300	29.8	58.2	H
4	5776.900	39.6	74.0	34.4	200	33.6	59.0	H
5	9394.150	42.4	74.0	31.6	100	38.1	60.8	H
6	15362.200	44.5	74.0	29.5	200	38.8	58.9	H
Avg								
1	1215.100	27.6	54.0	26.4	200	25.7	58.1	H
2	2283.100	26.4	54.0	27.6	100	27.1	59.5	H
3	3595.300	34.4	54.0	19.6	300	29.8	58.2	H
4	5776.900	31.1	54.0	22.9	200	33.6	59.0	H
5	9394.150	33.8	54.0	20.2	100	38.1	60.8	H
6	15362.200	34.2	54.0	19.8	200	38.8	58.9	H

802.11n20 2412 Vertical



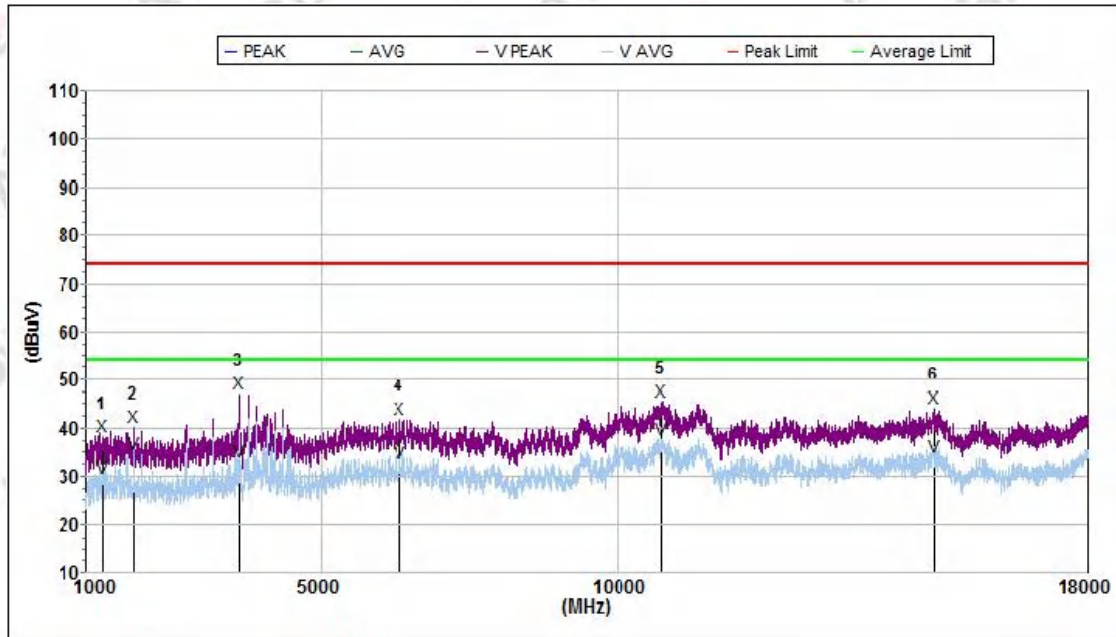
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1161.700	29.4	74.0	44.6	200	25.6	58.4	V
2	1607.500	28.7	74.0	45.3	100	25.3	58.3	V
3	2250.700	28.5	74.0	45.5	300	27.1	59.5	V
4	3125.500	30.0	74.0	44.0	200	29.4	58.6	V
5	5577.400	35.0	74.0	39.0	100	33.1	58.4	V
6	7353.100	35.4	74.0	38.6	200	36.2	58.8	V
Avg								
1	1161.700	20.8	54.0	33.2	200	25.6	58.4	V
2	1607.500	20.1	54.0	33.9	100	25.3	58.3	V
3	2250.700	18.3	54.0	35.7	300	27.1	59.5	V
4	3125.500	20.7	54.0	33.3	200	29.4	58.6	V
5	5577.400	25.9	54.0	28.1	100	33.1	58.4	V
6	7353.100	27.4	54.0	26.6	200	36.2	58.8	V

802.11n20 2462 Horizontal



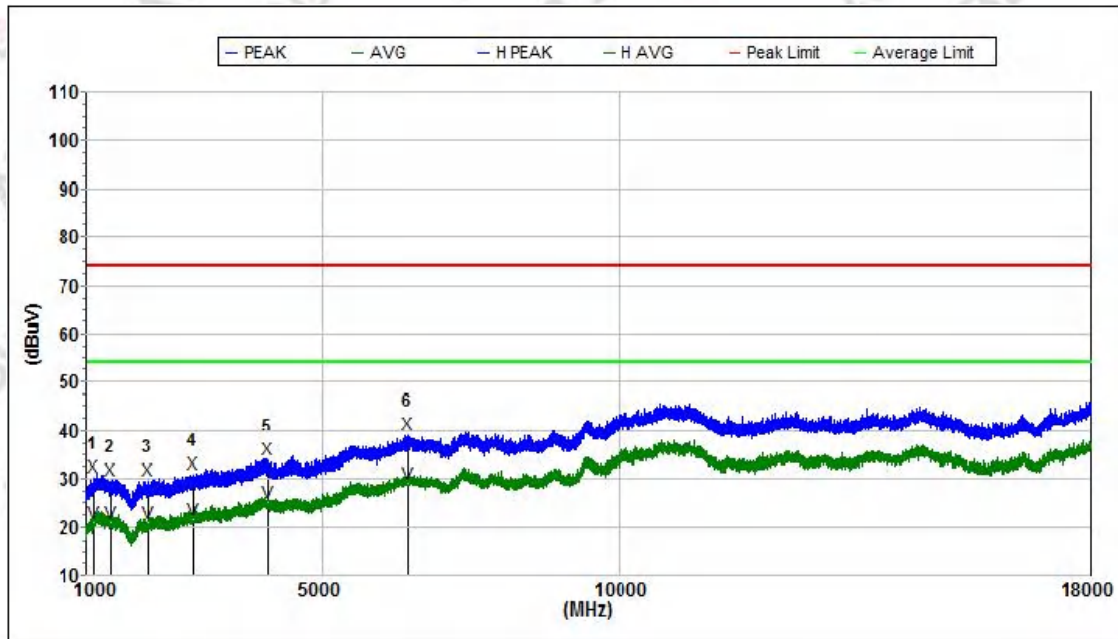
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1343.800	38.2	74.0	35.8	200	25.5	58.4	H
2	2700.400	42.3	74.0	31.7	100	28.3	59.3	H
3	3595.000	47.2	74.0	26.8	300	29.8	58.2	H
4	6964.900	40.8	74.0	33.2	200	36.0	60.4	H
5	10776.850	45.9	74.0	28.1	100	38.6	58.7	H
6	15341.850	43.6	74.0	30.4	200	38.9	58.8	H
Avg								
1	1343.800	29.2	54.0	24.8	200	25.5	58.4	H
2	2700.400	39.2	54.0	14.8	100	28.3	59.3	H
3	3595.000	35.3	54.0	18.7	300	29.8	58.2	H
4	6964.900	32.8	54.0	21.2	200	36.0	60.4	H
5	10776.850	37.2	54.0	16.8	100	38.6	58.7	H
6	15341.850	34.6	54.0	19.4	200	38.9	58.8	H

802.11n20 2462 Vertical



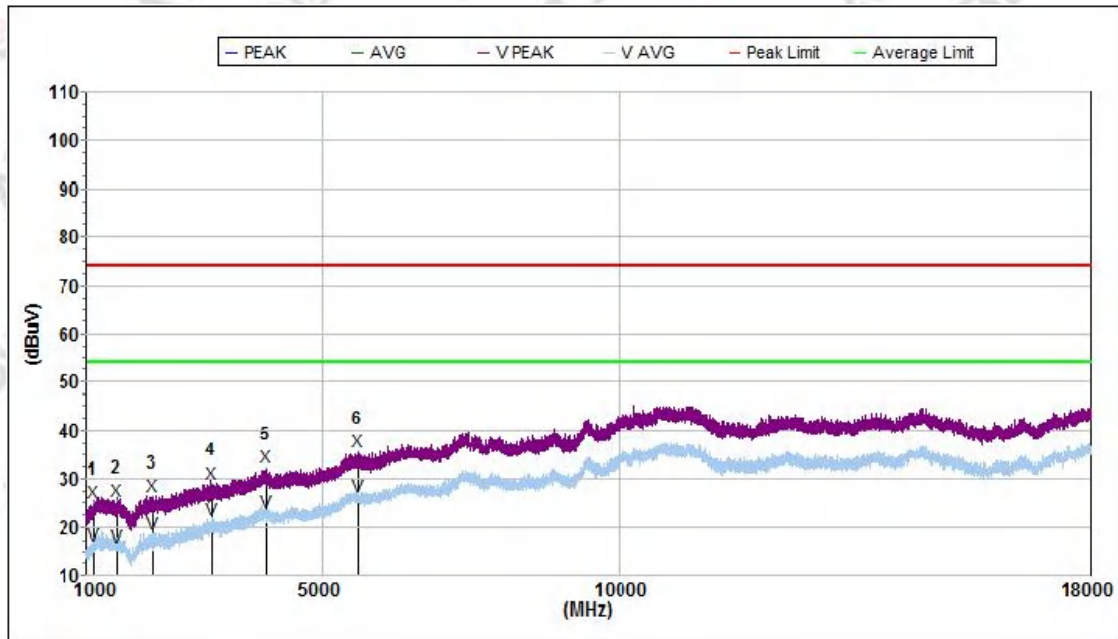
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1287.700	38.4	74.0	35.6	200	25.6	58.3	V
2	1800.400	40.4	74.0	33.6	100	25.1	58.0	V
3	3593.500	47.1	74.0	26.9	300	29.8	58.2	V
4	6323.200	41.9	74.0	32.1	200	34.9	59.0	V
5	10762.550	45.5	74.0	28.5	100	38.6	58.8	V
6	15376.500	44.1	74.0	29.9	200	38.8	58.9	V
Avg								
1	1287.700	29.9	54.0	24.1	200	25.6	58.3	V
2	1800.400	34.7	54.0	19.3	100	25.1	58.0	V
3	3593.500	33.0	54.0	21.0	300	29.8	58.2	V
4	6323.200	32.7	54.0	21.3	200	34.9	59.0	V
5	10762.550	37.6	54.0	16.4	100	38.6	58.8	V
6	15376.500	34.0	54.0	20.0	200	38.8	58.9	V

802.11n40 2452 Horizontal



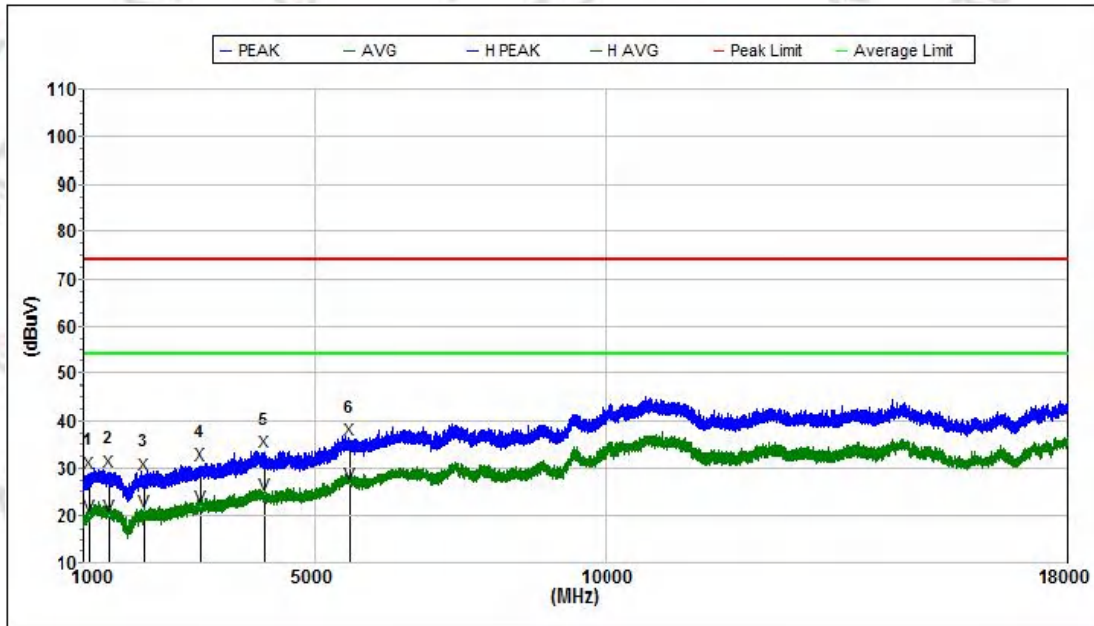
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1141.000	30.5	74.0	43.5	200	25.5	58.5	H
2	1408.900	29.8	74.0	44.2	100	25.5	58.5	H
3	2028.700	29.6	74.0	44.4	300	26.5	59.2	H
4	2819.800	31.2	74.0	42.8	200	28.7	59.1	H
5	4072.000	34.1	74.0	39.9	100	31.0	58.2	H
6	6448.000	39.2	74.0	34.8	200	35.2	58.7	H
Avg								
1	1141.000	20.8	54.0	33.2	200	25.5	58.5	H
2	1408.900	21.0	54.0	33.0	100	25.5	58.5	H
3	2028.700	21.0	54.0	33.0	300	26.5	59.2	H
4	2819.800	21.6	54.0	32.4	200	28.7	59.1	H
5	4072.000	25.2	54.0	28.8	100	31.0	58.2	H
6	6448.000	29.0	54.0	25.0	200	35.2	58.7	H

802.11n40 2452 Vertical



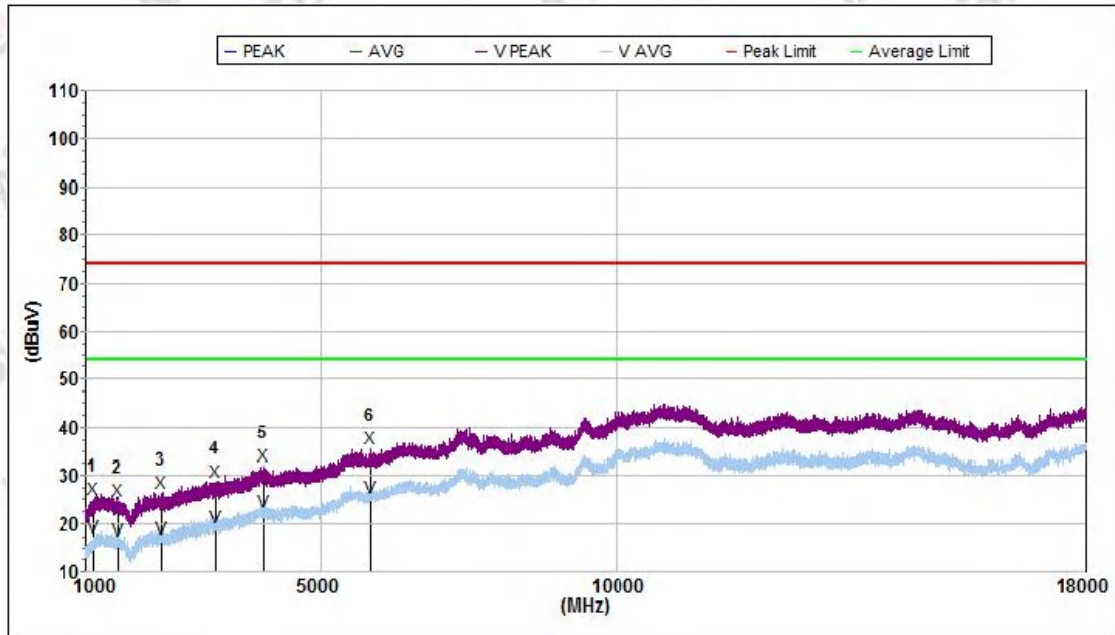
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1141.600	25.1	74.0	48.9	200	25.5	58.5	V
2	1517.500	25.5	74.0	48.5	100	25.3	58.4	V
3	2107.300	26.3	74.0	47.7	300	26.7	59.3	V
4	3135.100	29.0	74.0	45.0	200	29.4	58.6	V
5	4027.900	32.3	74.0	41.7	100	30.9	58.1	V
6	5594.800	35.8	74.0	38.2	200	33.1	58.5	V
Avg								
1	1141.600	16.1	54.0	37.9	200	25.5	58.5	V
2	1517.500	16.0	54.0	38.0	100	25.3	58.4	V
3	2107.300	18.4	54.0	35.6	300	26.7	59.3	V
4	3135.100	21.4	54.0	32.6	200	29.4	58.6	V
5	4027.900	23.2	54.0	30.8	100	30.9	58.1	V
6	5594.800	26.5	54.0	27.5	200	33.1	58.5	V

802.11n40 2452 Horizontal



Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1110.400	29.0	74.0	45.0	200	25.3	58.8	H
2	1428.700	29.5	74.0	44.5	100	25.4	58.5	H
3	2035.000	28.9	74.0	45.1	300	26.6	59.2	H
4	3032.800	30.7	74.0	43.3	200	29.4	58.7	H
5	4121.500	33.4	74.0	40.6	100	31.1	58.3	H
6	5605.900	36.1	74.0	37.9	200	33.2	58.5	H
Avg								
1	1110.400	19.8	54.0	34.2	200	25.3	58.8	H
2	1428.700	20.0	54.0	34.0	100	25.4	58.5	H
3	2035.000	20.9	54.0	33.1	300	26.6	59.2	H
4	3032.800	21.7	54.0	32.3	200	29.4	58.7	H
5	4121.500	24.6	54.0	29.4	100	31.1	58.3	H
6	5605.900	26.9	54.0	27.1	200	33.2	58.5	H

802.11n40 2452 Vertical

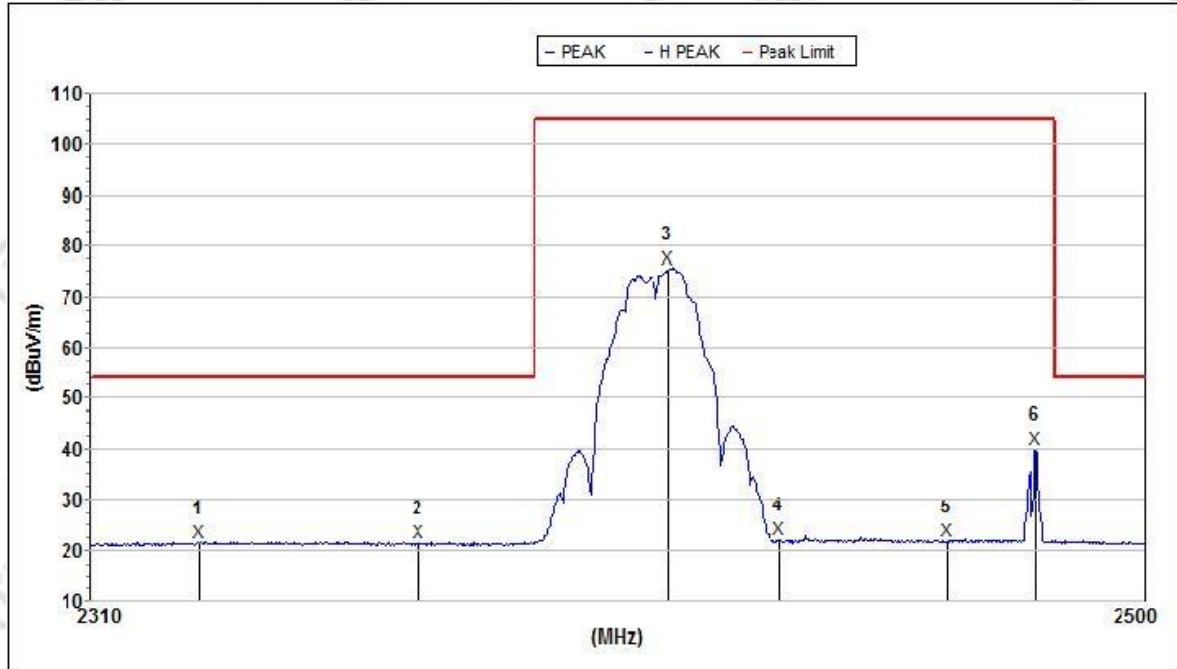


Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Hi. (cm)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1132.300	25.1	74.0	48.9	200	25.4	58.6	V
2	1553.500	24.9	74.0	49.1	100	25.3	58.3	V
3	2284.600	26.3	74.0	47.7	300	27.1	59.5	V
4	3196.900	28.8	74.0	45.2	200	29.4	58.5	V
5	4008.700	31.9	74.0	42.1	100	30.9	58.0	V
6	5819.200	35.5	74.0	38.5	200	33.7	59.1	V
Avg								
1	1132.300	17.2	54.0	36.8	200	25.4	58.6	V
2	1553.500	16.6	54.0	37.4	100	25.3	58.3	V
3	2284.600	17.0	54.0	37.0	300	27.1	59.5	V
4	3196.900	19.1	54.0	34.9	200	29.4	58.5	V
5	4008.700	22.5	54.0	31.5	100	30.9	58.0	V
6	5819.200	25.5	54.0	28.5	200	33.7	59.1	V

Appendix B2.Test Result of Restricted Band

802.11b 2412

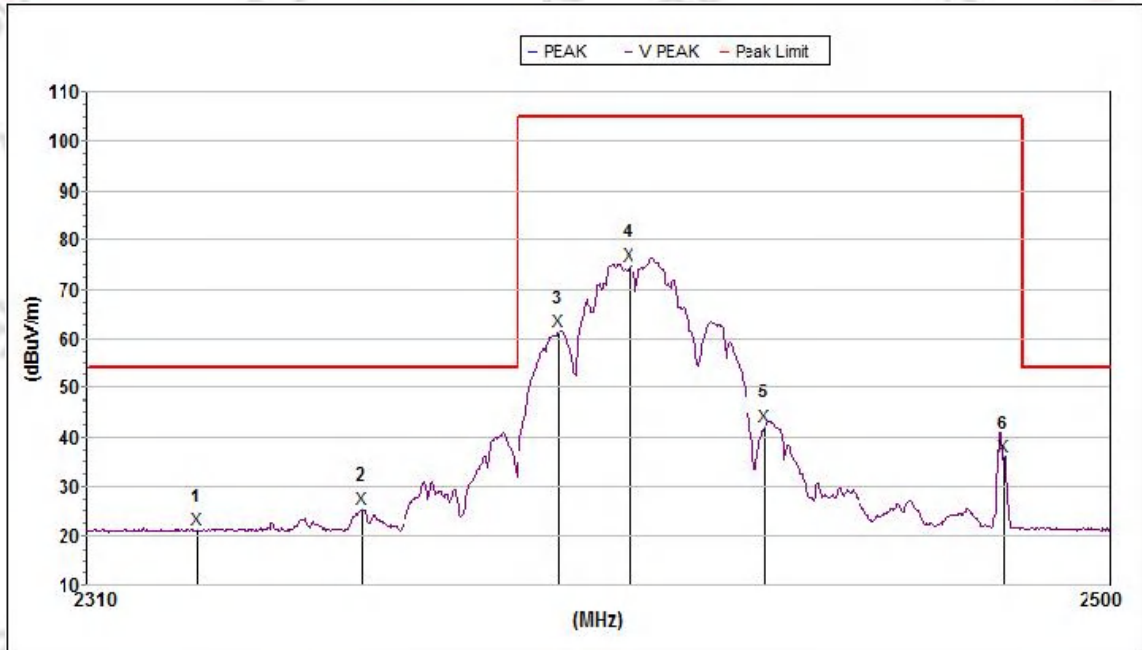
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2329.620	21.6	54.0	32.4	100	27.2	55.6	H
2	2369.174	21.4	54.0	32.6	300	27.3	55.6	H
3	2414.165	75.3	105.2	29.9	200	27.4	55.7	H
4	2434.285	22.1	105.2	83.1	100	27.5	55.7	H
5	2464.293	21.8	105.2	83.4	200	27.5	55.7	H
6	2480.317	39.9	105.2	65.3	300	27.6	55.7	H

802.11b 2412

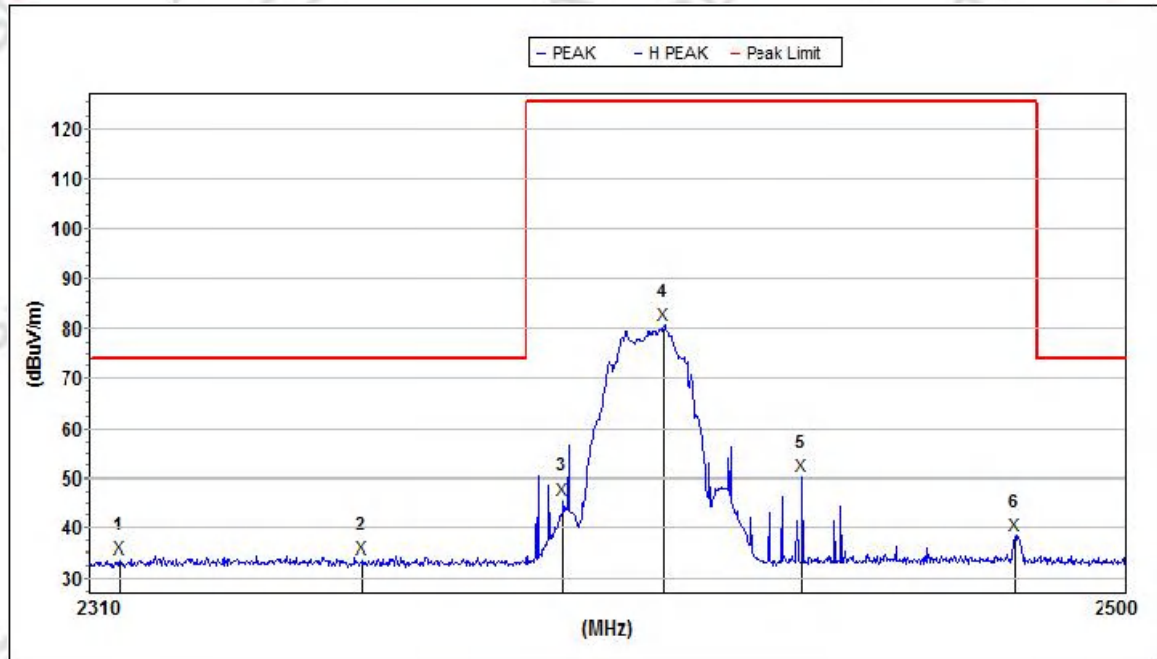
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2330.725	21.2	54.0	32.8	100	27.2	55.6	V
2	2360.949	25.3	54.0	28.7	300	27.3	55.6	V
3	2397.621	61.4	105.2	43.8	200	27.4	55.7	V
4	2410.733	74.9	105.2	30.3	100	27.4	55.7	V
5	2436.018	42.4	105.2	62.8	200	27.5	55.7	V
6	2480.317	35.9	105.2	69.3	300	27.6	55.7	V

802.11b 2412

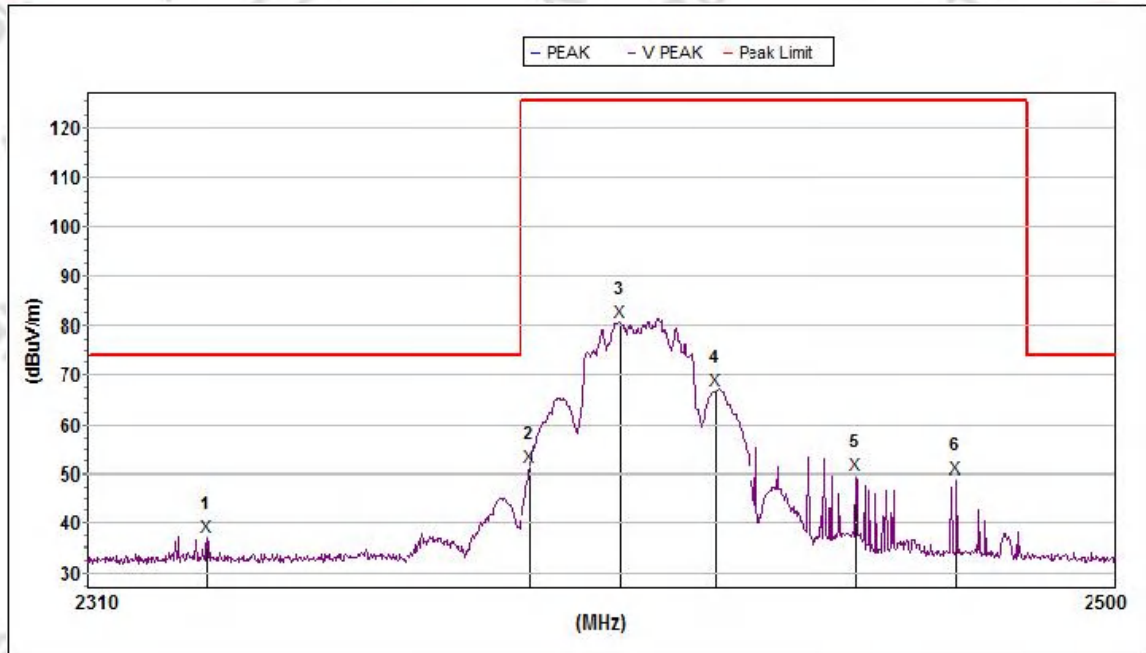
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2315.484	33.8	74.0	40.2	100	27.2	55.6	H
2	2360.016	33.8	74.0	40.2	300	27.3	55.6	H
3	2396.863	45.8	125.2	79.4	200	27.4	55.7	H
4	2415.311	80.7	125.2	44.5	100	27.4	55.7	H
5	2440.643	50.2	125.2	75.0	200	27.5	55.7	H
6	2479.729	38.5	125.2	86.7	300	27.6	55.7	H

802.11b 2412

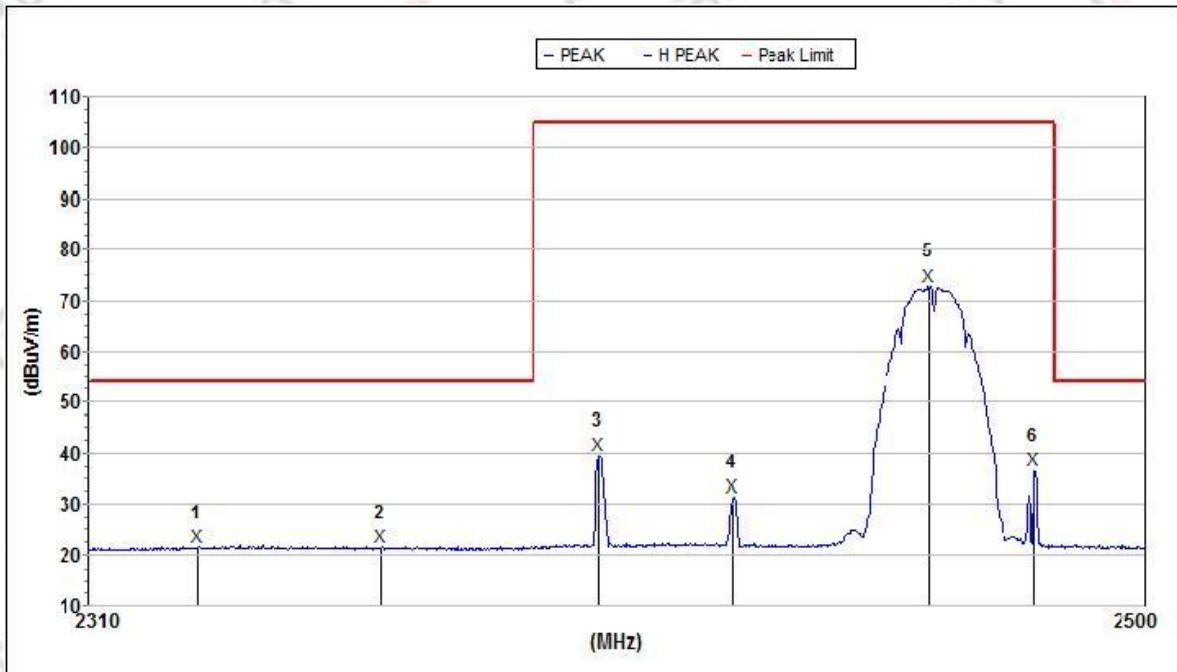
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2332.015	37.2	74.0	36.8	100	27.2	55.6	V
2	2391.753	51.3	125.2	73.9	300	27.4	55.7	V
3	2408.257	80.6	125.2	44.6	200	27.4	55.7	V
4	2426.025	66.8	125.2	58.4	100	27.4	55.7	V
5	2451.858	49.7	125.2	75.5	200	27.5	55.7	V
6	2470.534	48.9	125.2	76.3	300	27.5	55.7	V

802.11b 2462

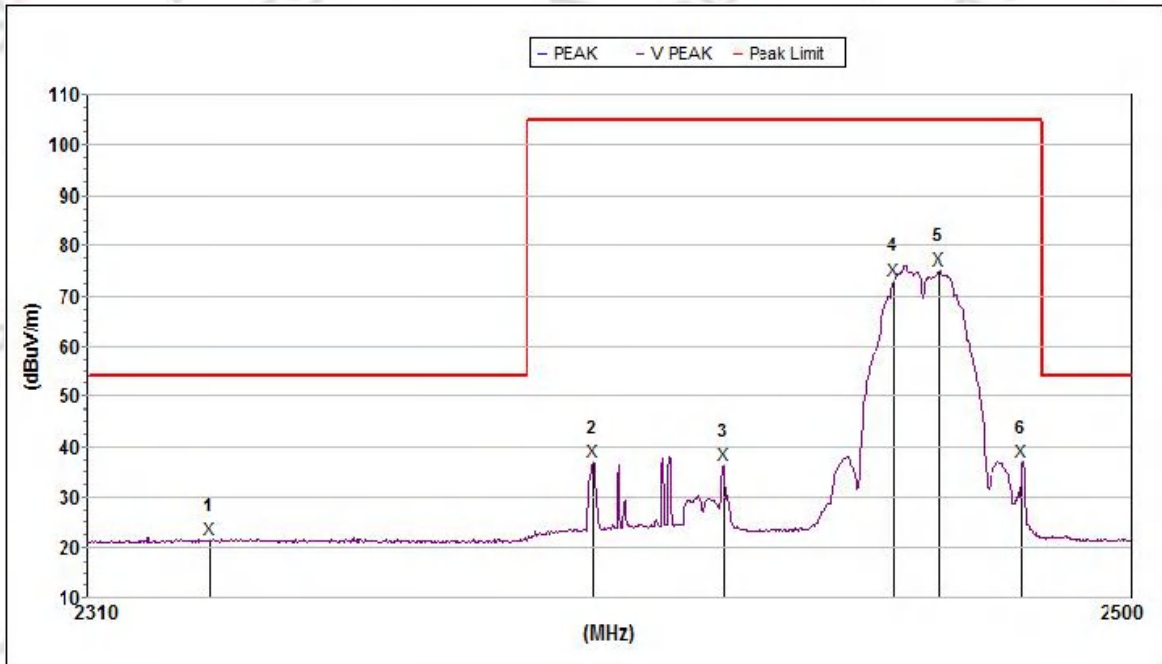
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2329.804	21.4	54.0	32.6	100	27.2	55.6	H
2	2362.629	21.4	54.0	32.6	300	27.3	55.6	H
3	2401.794	39.6	105.2	65.6	200	27.4	55.7	H
4	2425.834	31.4	105.2	73.8	100	27.4	55.7	H
5	2461.178	72.9	105.2	32.3	200	27.5	55.7	H
6	2480.121	36.5	105.2	68.7	300	27.6	55.7	H

802.11b 2462

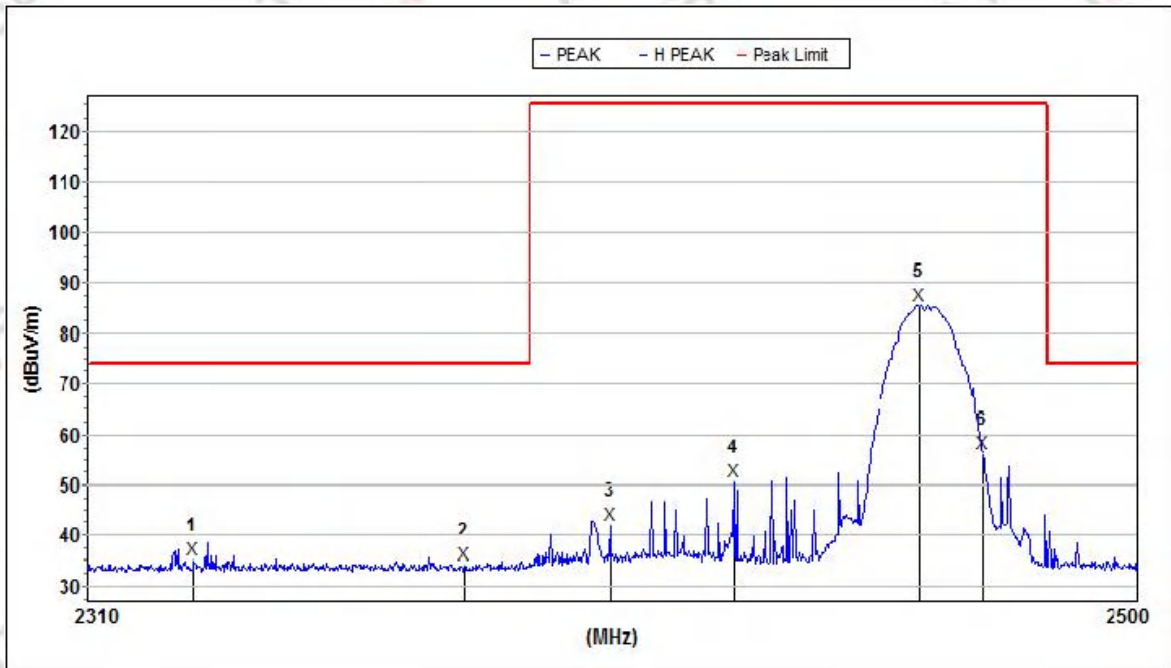
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2332.199	21.4	54.0	32.6	100	27.2	55.6	V
2	2401.984	36.9	105.2	68.3	300	27.4	55.7	V
3	2425.642	36.4	105.2	68.8	200	27.4	55.7	V
4	2456.902	73.3	105.2	31.9	100	27.5	55.7	V
5	2464.877	75.1	105.2	30.1	200	27.5	55.7	V
6	2480.121	37.0	105.2	68.2	300	27.6	55.7	V

802.11b 2462

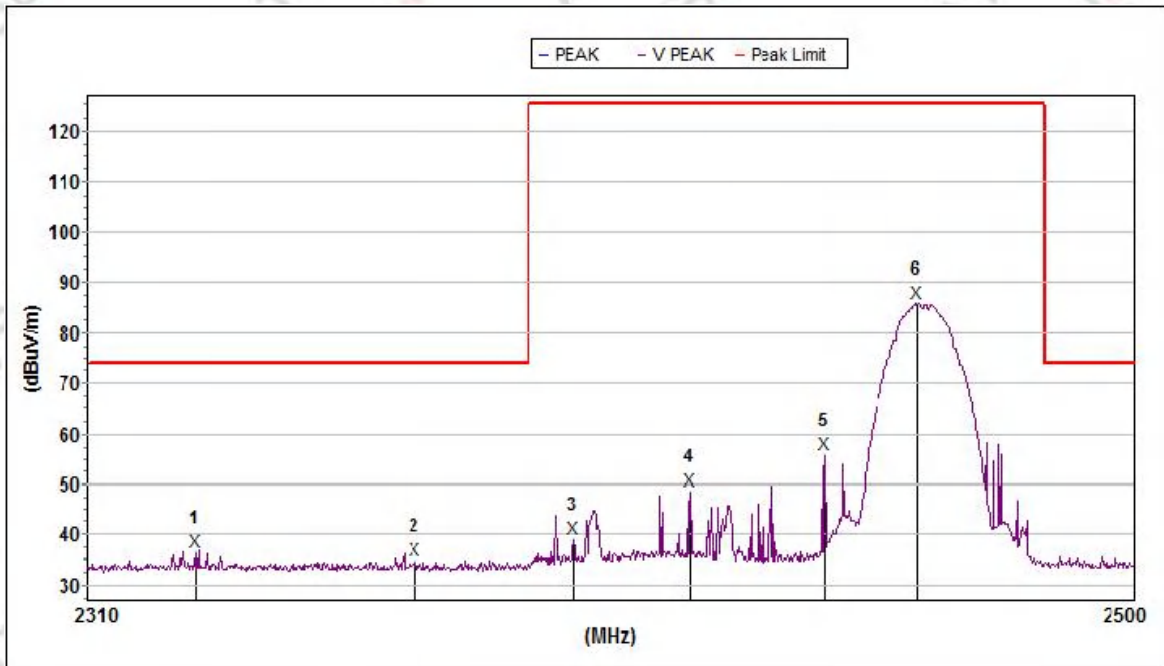
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2329.252	35.2	74.0	38.8	100	27.2	55.6	H
2	2378.180	34.2	74.0	39.8	300	27.3	55.7	H
3	2404.453	42.0	125.2	83.2	200	27.4	55.7	H
4	2426.793	50.6	125.2	74.6	100	27.4	55.7	H
5	2460.595	85.7	125.2	39.5	200	27.5	55.7	H
6	2471.901	56.3	125.2	68.9	300	27.5	55.7	H

802.11b 2462

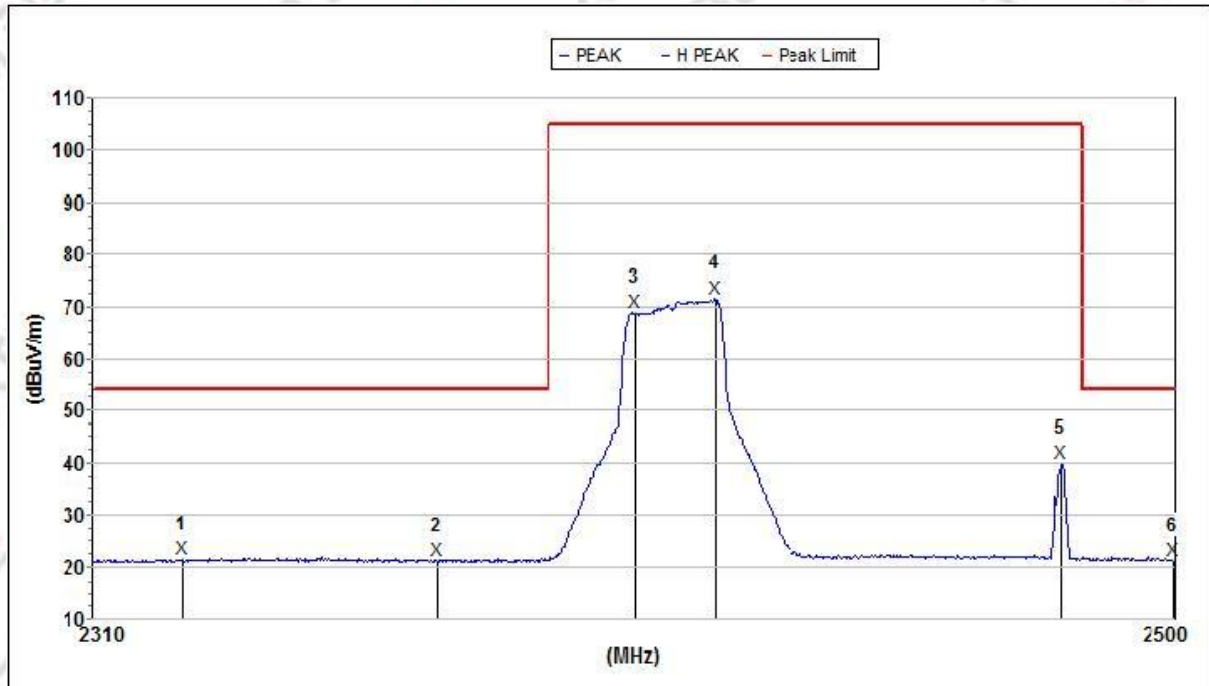
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2329.620	36.4	74.0	37.6	100	27.2	55.6	V
2	2369.549	35.0	74.0	39.0	300	27.3	55.6	V
3	2398.189	39.2	125.2	86.0	200	27.4	55.7	V
4	2419.323	48.8	125.2	76.4	100	27.5	55.7	V
5	2443.732	55.8	125.2	69.4	200	27.5	55.7	V
6	2460.595	85.9	125.2	39.3	300	27.5	55.7	V

802.11g 2412

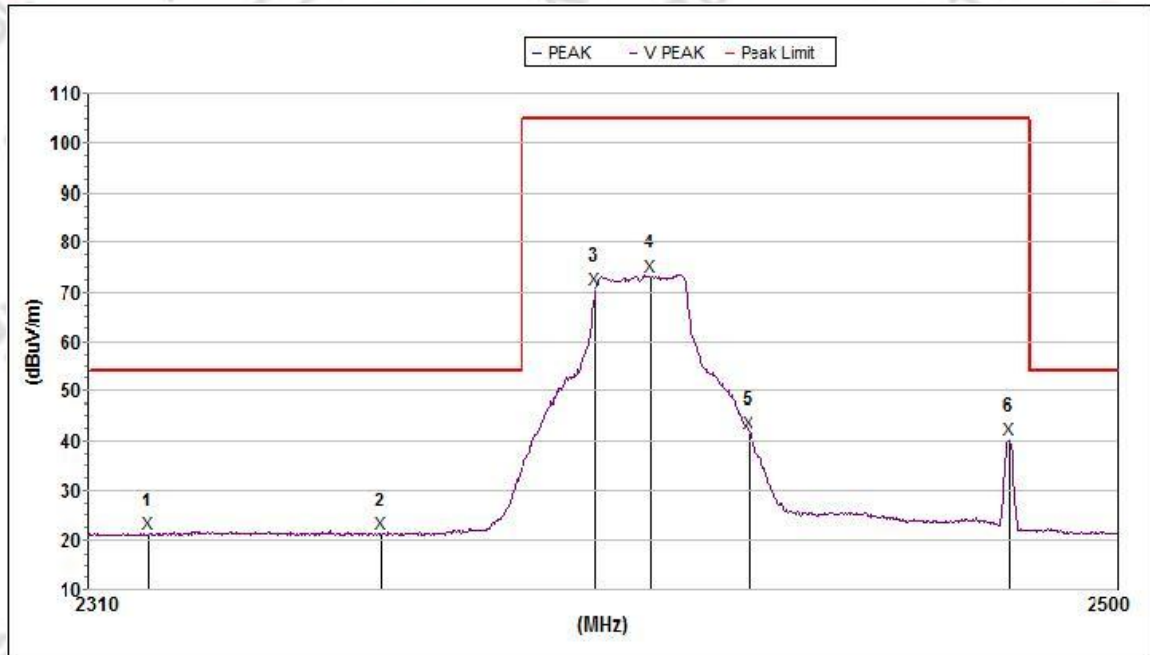
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2325.572	21.4	54.0	32.6	100	27.2	55.6	H
2	2370.673	21.3	54.0	32.7	300	27.3	55.6	H
3	2405.213	68.8	105.2	36.4	200	27.4	55.7	H
4	2419.323	71.6	105.2	33.6	100	27.4	55.7	H
5	2480.121	39.9	105.2	65.3	200	27.6	55.7	H
6	2499.802	21.3	54.0	32.7	300	27.6	55.7	H

802.11g 2412

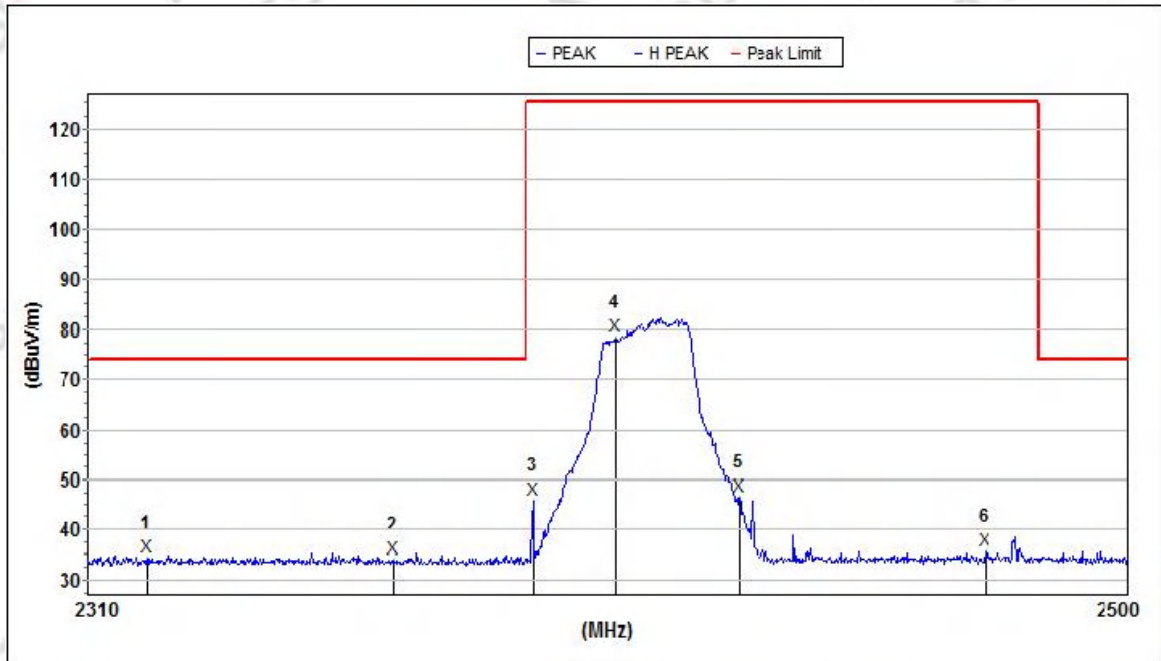
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HL (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2320.981	21.2	54.0	32.8	100	27.2	55.6	V
2	2363.936	21.2	54.0	32.8	300	27.3	55.6	V
3	2403.503	70.4	105.2	34.8	200	27.4	55.7	V
4	2413.975	73.2	105.2	32.0	100	27.4	55.7	V
5	2431.977	41.5	105.2	63.7	200	27.5	55.7	V
6	2479.925	40.3	105.2	64.9	300	27.6	55.7	V

802.11g 2412

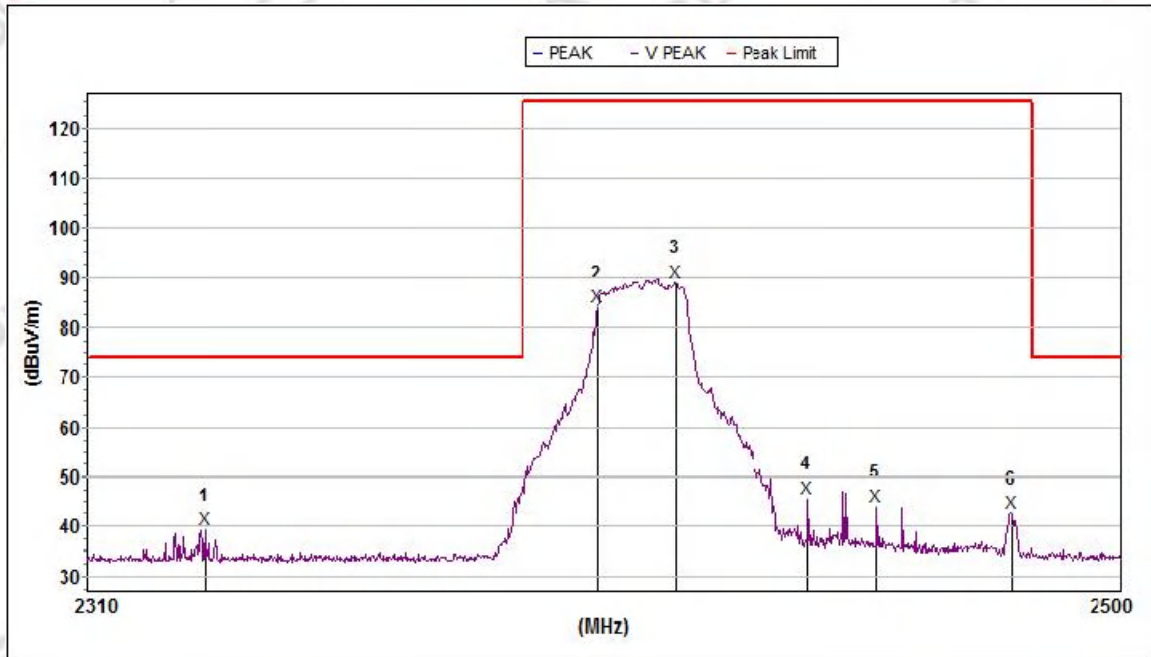
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2320.615	34.5	74.0	39.5	100	27.2	55.6	H
2	2365.619	34.3	74.0	39.7	300	27.3	55.6	H
3	2391.375	46.2	125.2	79.0	200	27.4	55.7	H
4	2406.354	78.6	125.2	46.6	100	27.4	55.7	H
5	2428.904	46.6	125.2	78.6	200	27.4	55.7	H
6	2473.856	36.0	125.2	89.2	300	27.5	55.7	H

802.11g 2412

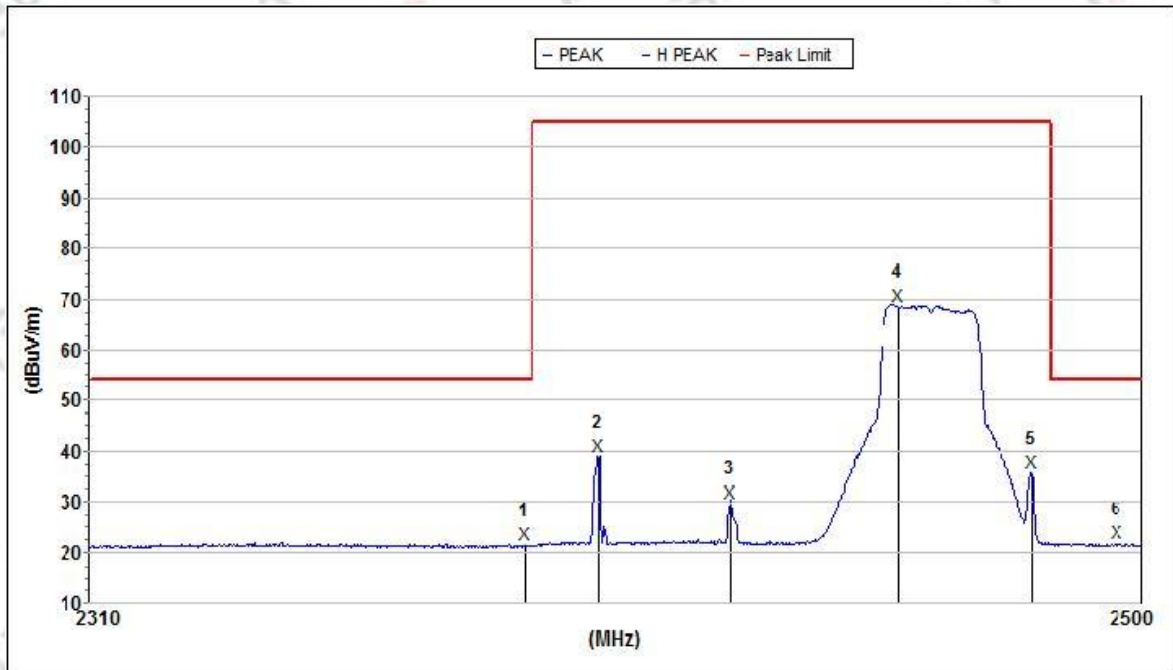
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2331.646	39.4	74.0	34.6	100	27.2	55.6	V
2	2403.693	84.2	125.2	41.0	300	27.4	55.7	V
3	2418.176	89.2	125.2	36.0	200	27.4	55.7	V
4	2442.380	45.8	125.2	79.4	100	27.5	55.7	V
5	2455.155	44.2	125.2	81.0	200	27.5	55.7	V
6	2480.121	42.9	125.2	82.3	300	27.6	55.7	V

802.11g 2462

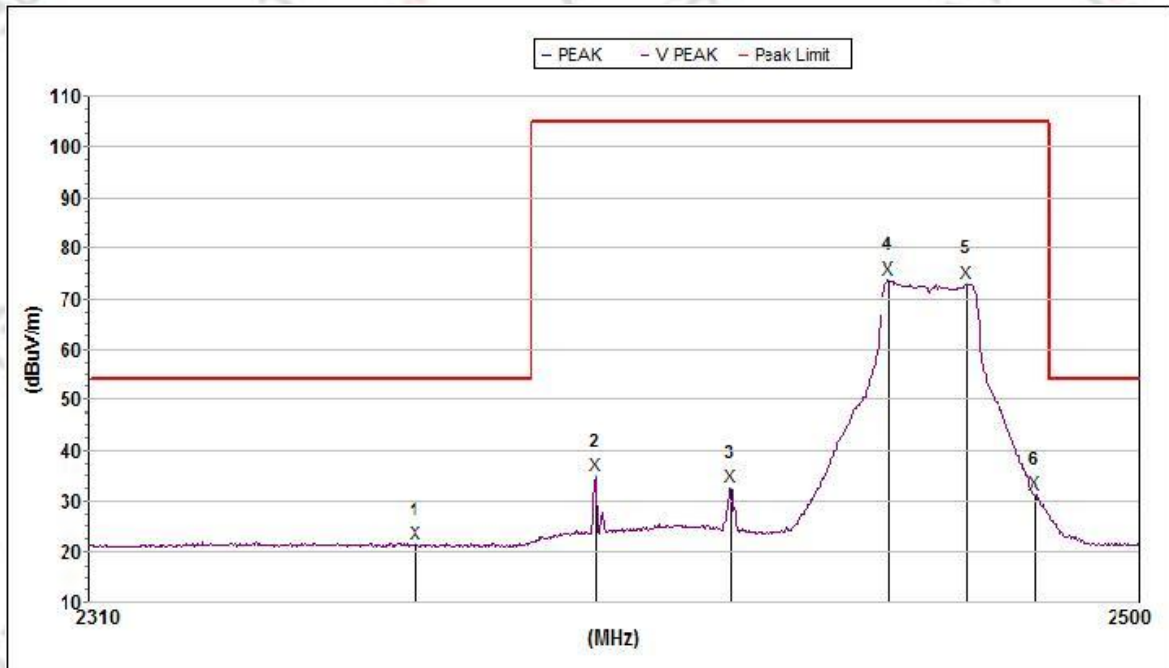
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2388.730	21.5	54.0	32.5	100	27.4	55.7	H
2	2401.984	39.1	105.2	66.1	300	27.4	55.7	H
3	2425.642	29.9	105.2	75.3	200	27.4	55.7	H
4	2456.125	68.7	105.2	36.5	100	27.5	55.7	H
5	2480.317	35.8	105.2	69.4	200	27.6	55.7	H
6	2495.656	21.7	54.0	32.3	300	27.6	55.7	H

802.11g 2462

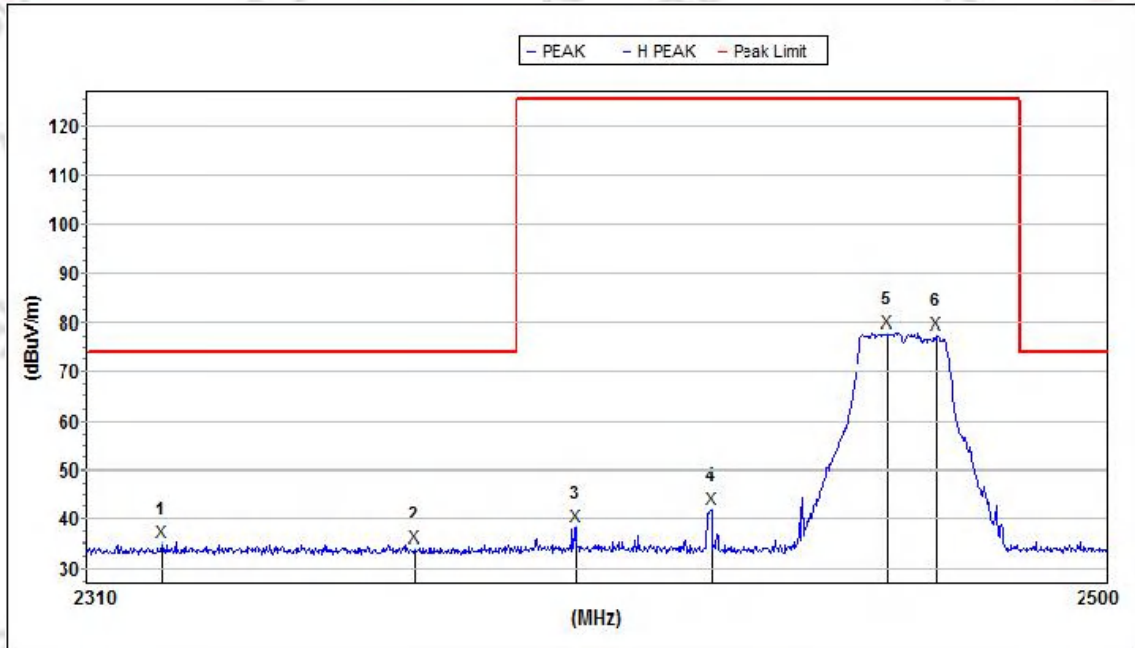
Vertical



Mk.	Frequency	Level	Limit	Margin	HI.	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(dB/m)	(dB)	
AVG								
1	2369.174	21.5	54.0	32.5	100	27.3	55.6	V
2	2401.794	34.9	105.2	70.3	300	27.4	55.7	V
3	2426.025	32.7	105.2	72.5	200	27.4	55.7	V
4	2454.767	73.8	105.2	31.4	100	27.5	55.7	V
5	2468.777	73.0	105.2	32.2	200	27.5	55.7	V
6	2481.101	31.5	105.2	73.7	300	27.6	55.7	V

802.11g 2462

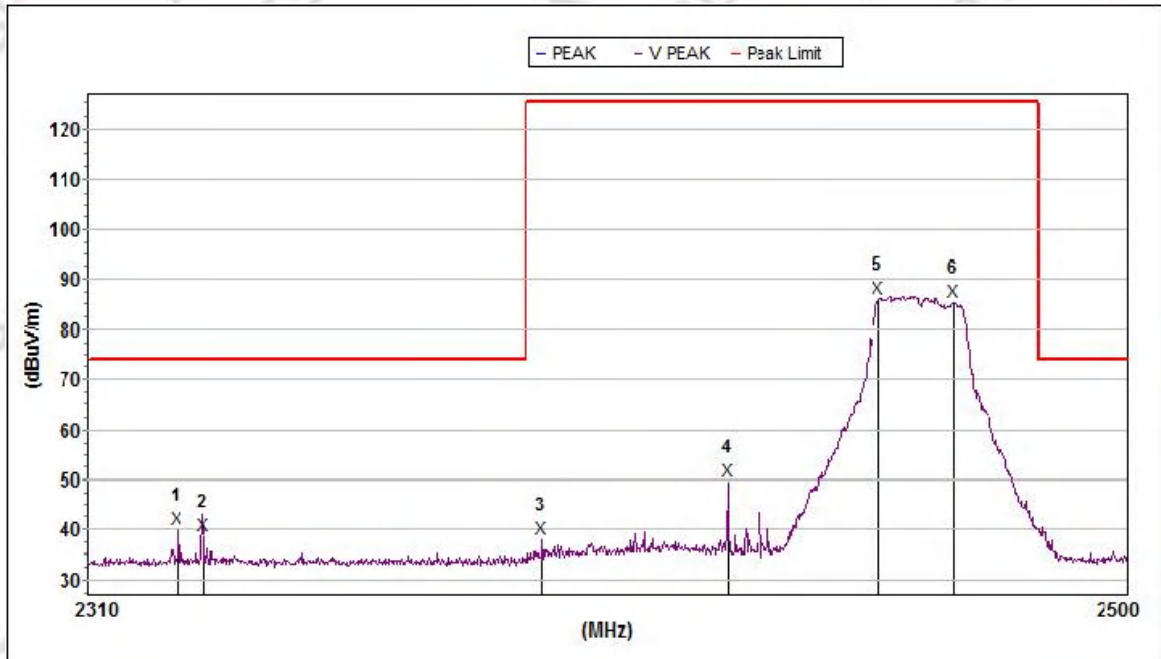
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2323.919	35.2	74.0	38.8	100	27.2	55.6	H
2	2371.235	34.3	74.0	39.7	300	27.3	55.6	H
3	2401.034	38.6	125.2	86.6	200	27.4	55.7	H
4	2426.217	42.1	125.2	83.1	100	27.4	55.7	H
5	2459.234	78.0	125.2	47.2	200	27.5	55.7	H
6	2468.192	77.8	125.2	47.4	300	27.5	55.7	H

802.11g 2462

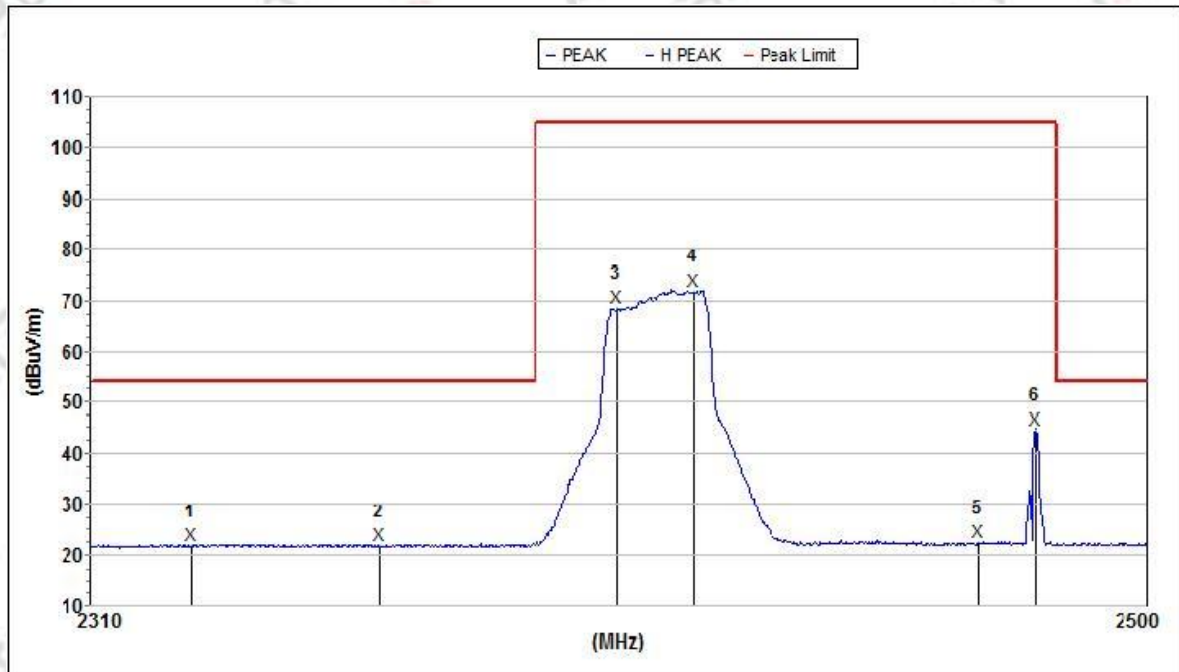
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2326.308	40.2	74.0	33.8	100	27.2	55.6	V
2	2331.094	38.7	74.0	35.3	300	27.2	55.6	V
3	2393.077	38.2	125.2	87.0	200	27.4	55.7	V
4	2426.793	49.7	125.2	75.5	100	27.4	55.7	V
5	2454.573	86.1	125.2	39.1	200	27.5	55.7	V
6	2467.997	85.5	125.2	39.7	300	27.5	55.7	V

802.11n20 2412

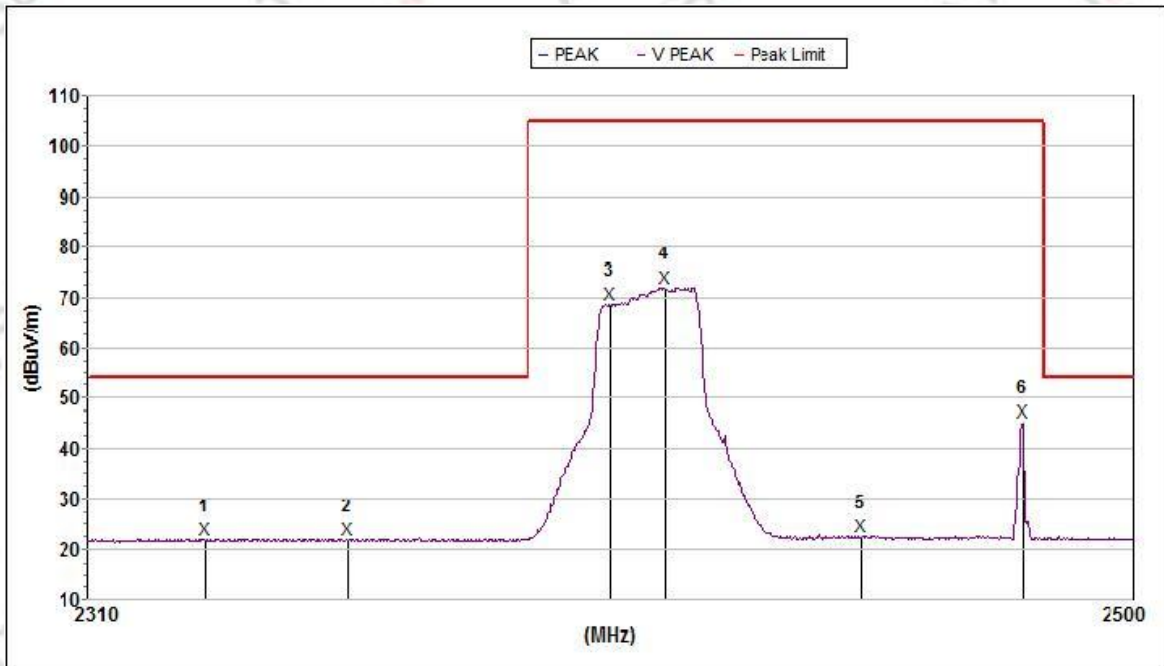
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2328.331	21.9	54.0	32.1	100	27.2	55.6	H
2	2361.882	21.8	54.0	32.2	300	27.3	55.6	H
3	2404.643	68.4	105.2	36.8	200	27.4	55.7	H
4	2418.367	71.8	105.2	33.4	100	27.4	55.7	H
5	2469.558	22.5	105.2	82.7	200	27.5	55.7	H
6	2480.121	44.5	105.2	60.7	300	27.6	55.7	H

802.11n20 2412

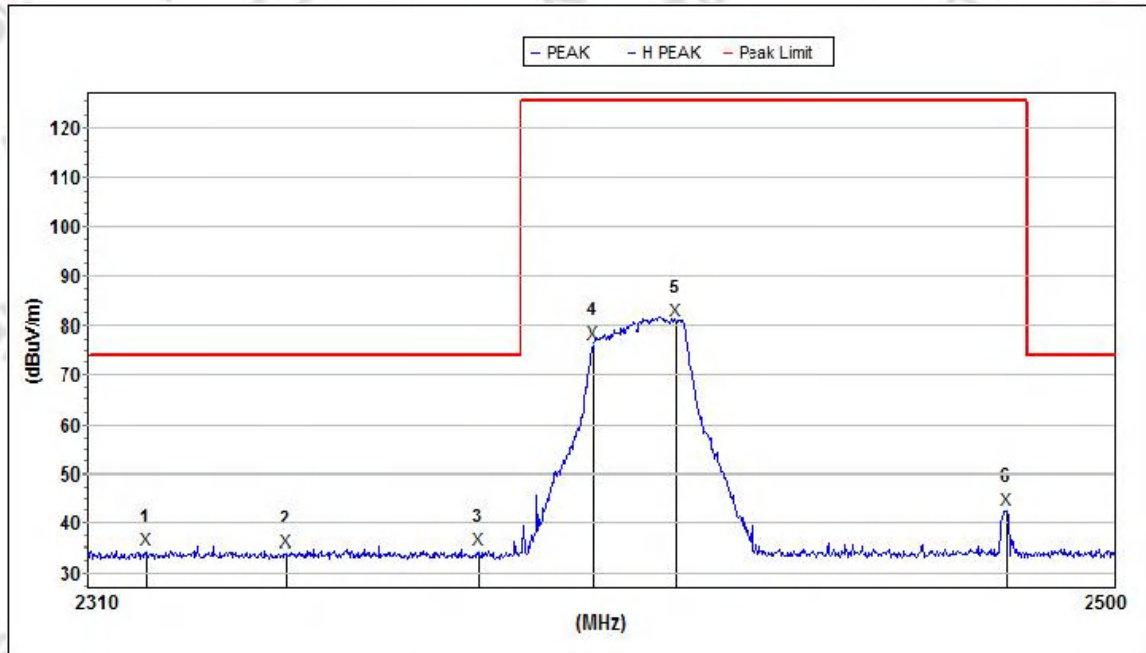
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2331.462	21.8	54.0	32.2	100	27.2	55.6	V
2	2357.219	22.0	54.0	32.0	300	27.3	55.6	V
3	2404.833	68.7	105.2	36.5	200	27.4	55.7	V
4	2414.929	72.0	105.2	33.2	100	27.4	55.7	V
5	2450.308	22.5	105.2	82.7	200	27.5	55.7	V
6	2479.925	45.2	105.2	60.0	300	27.6	55.7	V

802.11n20 2412

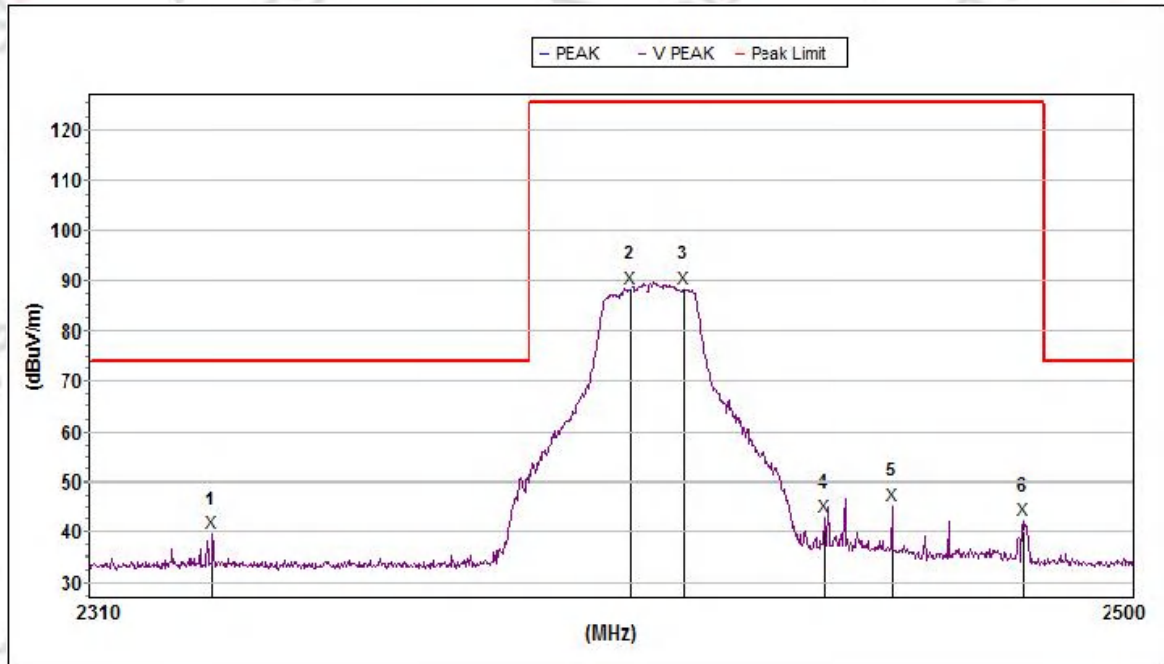
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2320.798	34.7	74.0	39.3	100	27.2	55.6	H
2	2346.437	34.3	74.0	39.7	300	27.3	55.6	H
3	2382.319	34.7	74.0	39.3	200	27.3	55.7	H
4	2403.313	76.2	125.2	49.0	100	27.4	55.7	H
5	2418.749	81.0	125.2	44.2	200	27.4	55.7	H
6	2479.925	42.7	125.2	82.5	300	27.6	55.7	H

802.11n20 2412

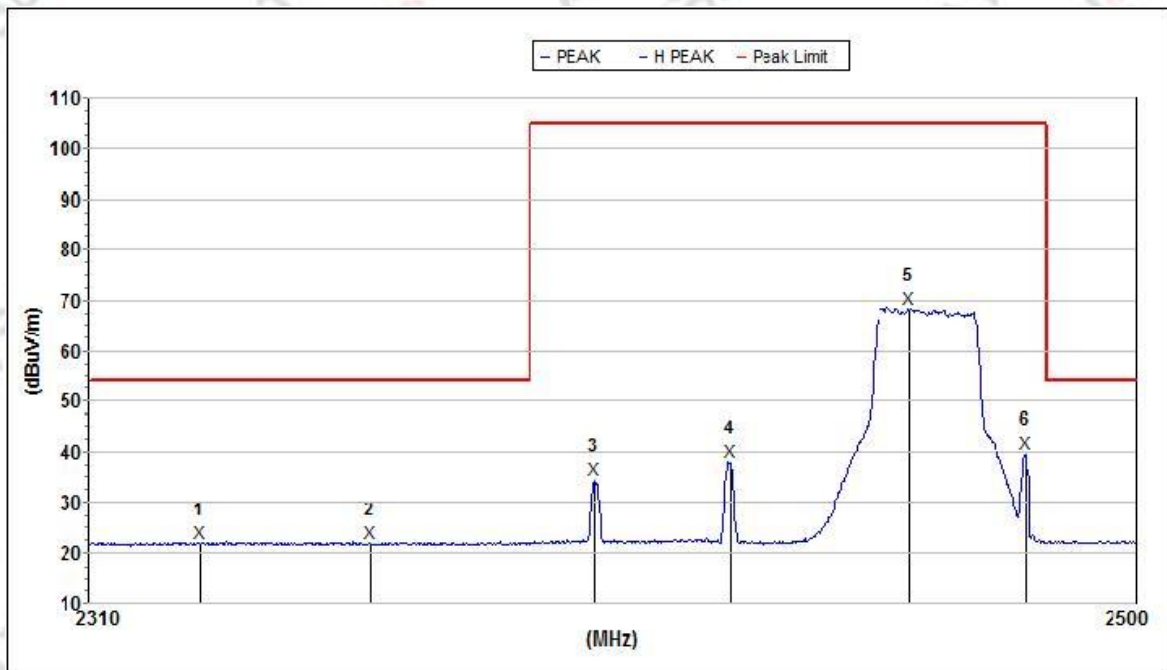
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2332.384	39.8	74.0	34.2	100	27.2	55.6	V
2	2408.257	88.6	125.2	36.6	300	27.4	55.7	V
3	2418.176	88.6	125.2	36.6	200	27.4	55.7	V
4	2443.732	43.1	125.2	82.1	100	27.5	55.7	V
5	2456.125	45.3	125.2	79.9	200	27.5	55.7	V
6	2480.121	42.4	125.2	82.8	300	27.6	55.7	V

802.11n20 2462

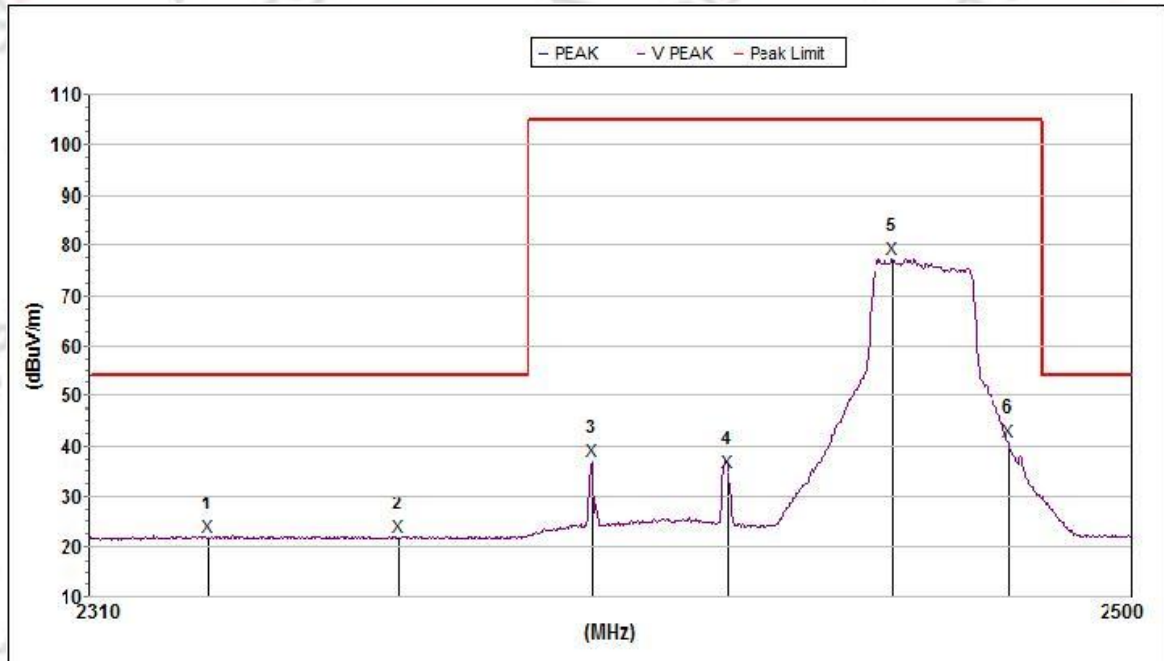
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	H.I. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2330.172	21.9	54.0	32.1	100	27.2	55.6	H
2	2361.135	21.8	54.0	32.2	300	27.3	55.6	H
3	2401.604	34.4	105.2	70.8	200	27.4	55.7	H
4	2426.217	38.1	105.2	67.1	100	27.4	55.7	H
5	2458.845	68.3	105.2	36.9	200	27.5	55.7	H
6	2479.925	39.6	105.2	65.6	300	27.6	55.7	H

802.11n20 2462

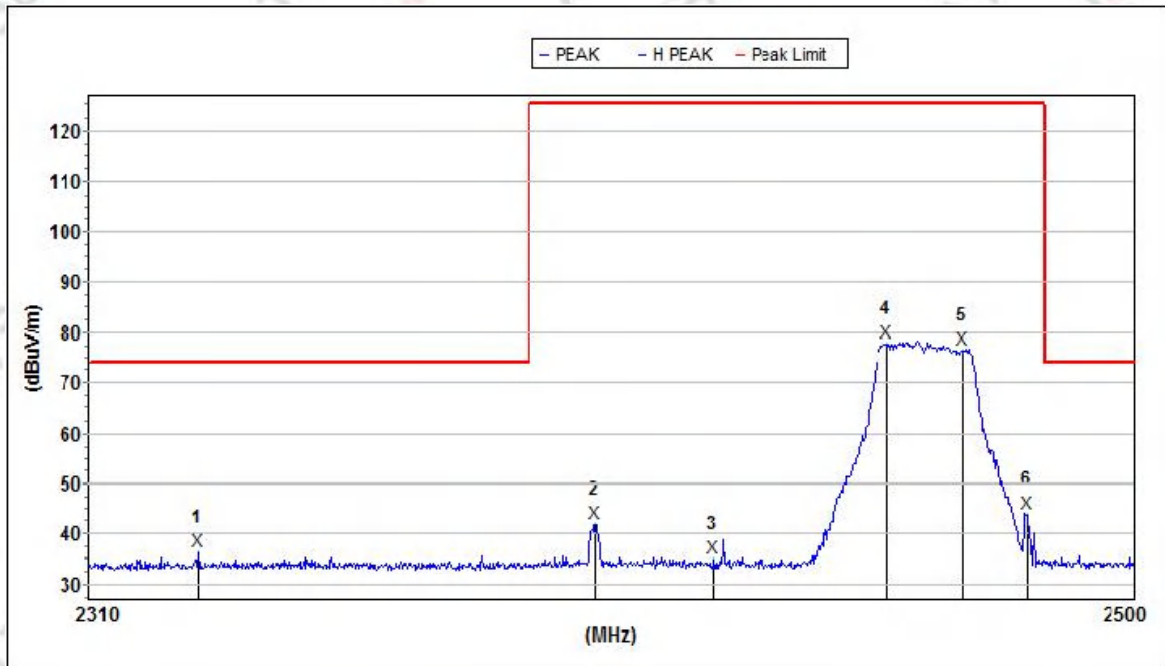
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2331.646	21.8	54.0	32.2	100	27.2	55.6	V
2	2366.180	22.0	54.0	32.0	300	27.3	55.6	V
3	2401.604	36.9	105.2	68.3	200	27.4	55.7	V
4	2426.409	34.6	105.2	70.6	100	27.4	55.7	V
5	2456.514	77.1	105.2	28.1	200	27.5	55.7	V
6	2477.574	40.8	105.2	64.4	300	27.6	55.7	V

802.11n20 2462

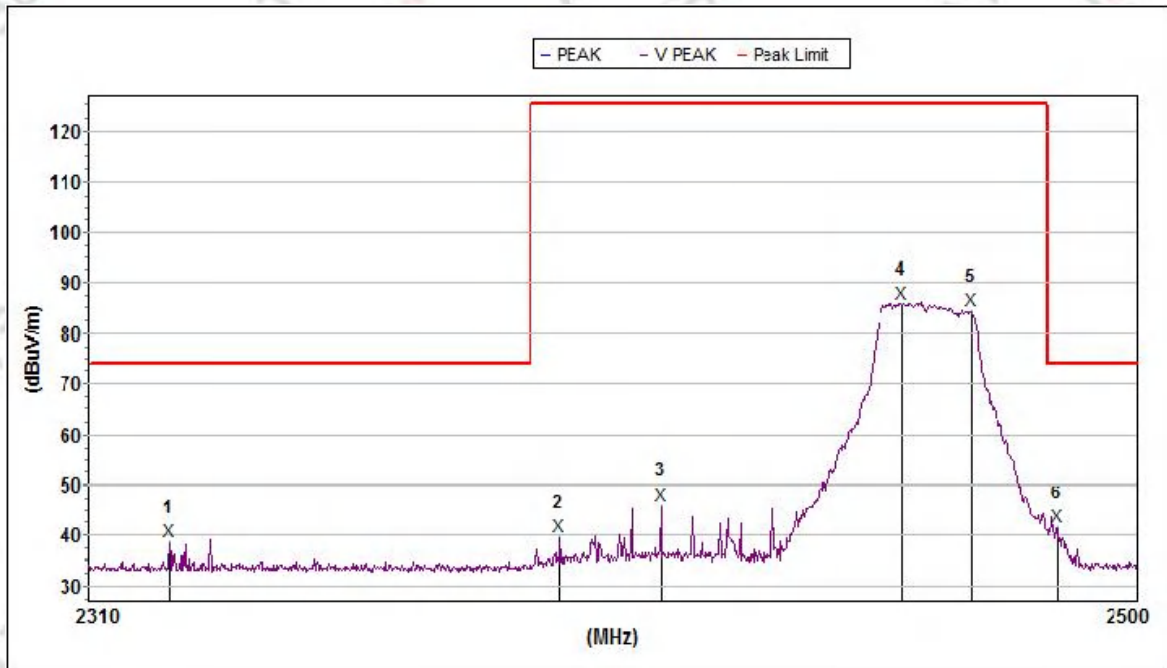
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2329.988	36.5	74.0	37.5	100	27.2	55.6	H
2	2401.984	42.0	125.2	83.2	300	27.4	55.7	H
3	2423.534	35.2	125.2	90.0	200	27.4	55.7	H
4	2455.155	78.0	125.2	47.2	100	27.5	55.7	H
5	2468.777	76.6	125.2	48.6	200	27.5	55.7	H
6	2480.513	44.0	125.2	81.2	300	27.6	55.7	H

802.11n20 2462

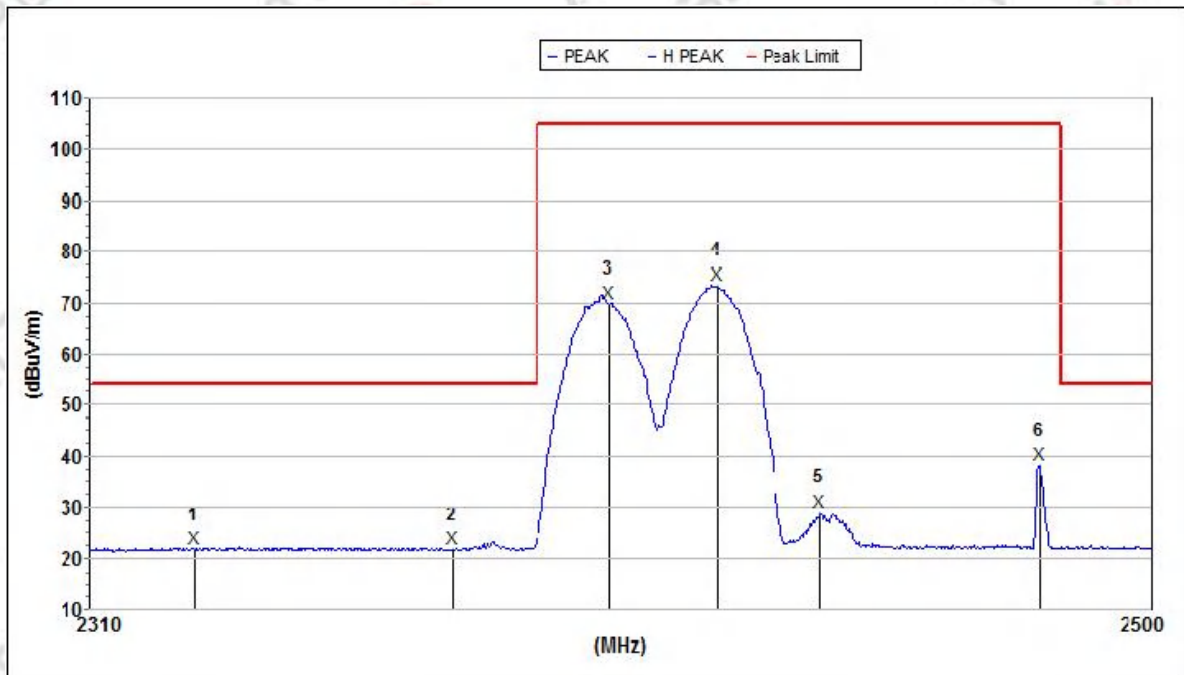
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2324.470	39.0	74.0	35.0	100	27.2	55.6	V
2	2395.348	39.7	125.2	85.5	300	27.4	55.7	V
3	2413.784	46.0	125.2	79.2	200	27.4	55.7	V
4	2457.290	86.0	125.2	39.2	100	27.5	55.7	V
5	2469.753	84.5	125.2	40.7	200	27.5	55.7	V
6	2485.420	41.7	74.0	32.3	300	27.6	55.7	V

802.11n40 2422

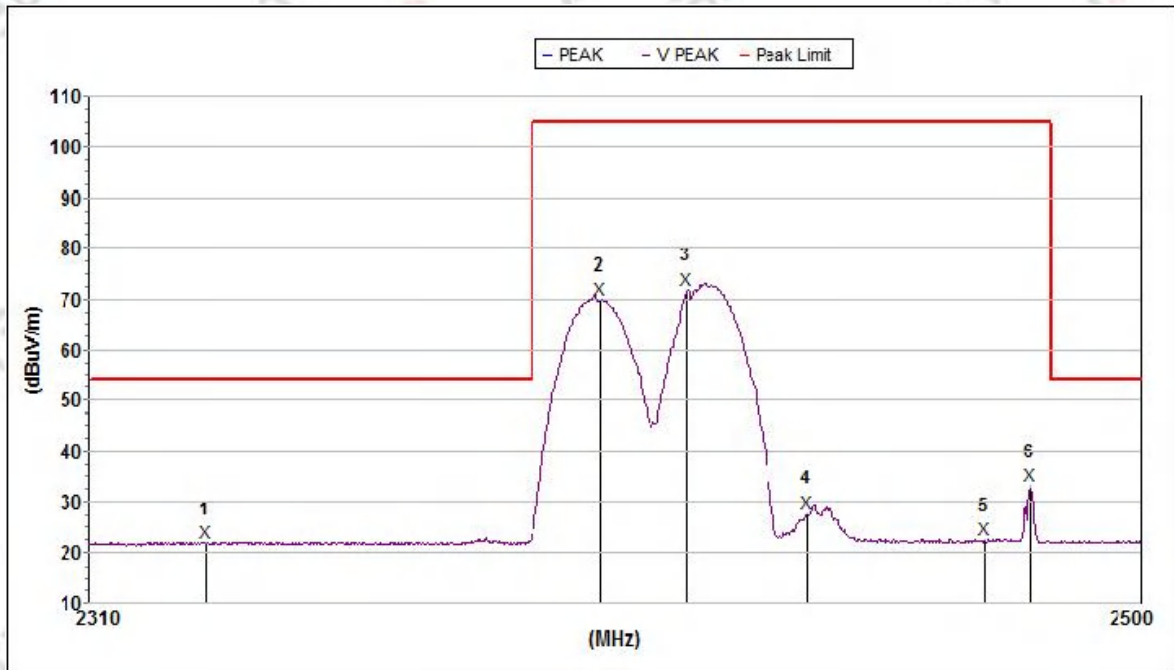
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2328.884	22.0	54.0	32.0	100	27.2	55.6	H
2	2374.986	21.9	54.0	32.1	300	27.3	55.6	H
3	2402.743	69.8	105.2	35.4	200	27.4	55.7	H
4	2422.193	73.5	105.2	31.7	100	27.4	55.7	H
5	2440.643	29.0	105.2	76.2	200	27.5	55.7	H
6	2479.925	38.2	105.2	67.0	300	27.6	55.7	H

802.11n40 2422

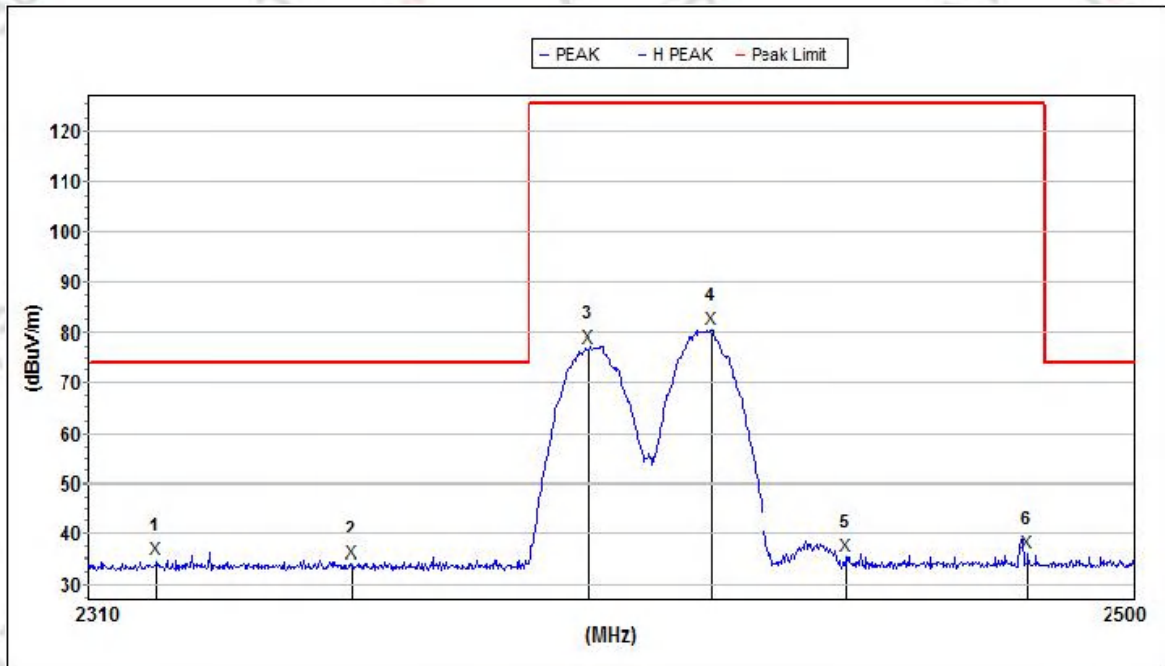
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2331.094	21.8	54.0	32.2	100	27.2	55.6	V
2	2402.173	69.9	105.2	35.3	300	27.4	55.7	V
3	2417.985	71.9	105.2	33.3	200	27.4	55.7	V
4	2439.679	27.6	105.2	77.6	100	27.5	55.7	V
5	2471.510	22.6	105.2	82.6	200	27.5	55.7	V
6	2479.925	32.9	105.2	72.3	300	27.6	55.7	V

802.11n40 2422

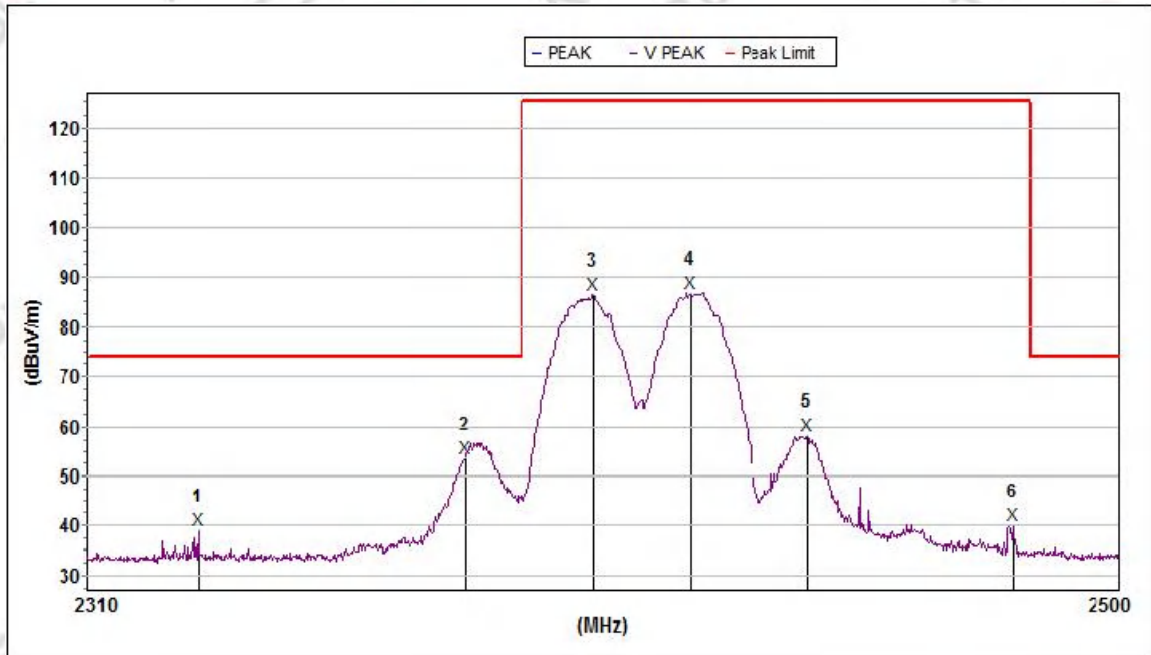
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2322.266	34.9	74.0	39.1	100	27.2	55.6	H
2	2357.965	34.2	74.0	39.8	300	27.3	55.6	H
3	2400.845	77.0	125.2	48.2	200	27.4	55.7	H
4	2423.151	80.5	125.2	44.7	100	27.4	55.7	H
5	2447.405	35.4	125.2	89.8	200	27.5	55.7	H
6	2480.709	36.2	125.2	89.0	300	27.6	55.7	H

802.11n40 2422

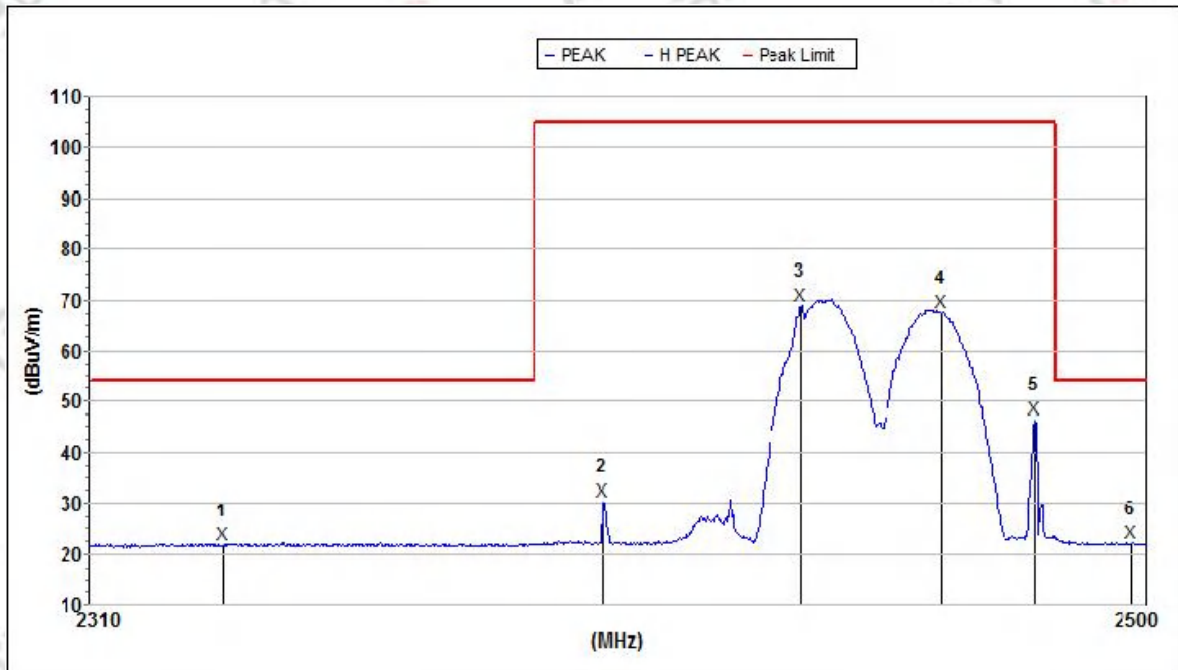
Vertical



Mk.	Frequency	Level	Limit	Margin	HI.	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(dB/m)	(dB)	
Peak								
1	2330.541	39.3	74.0	34.7	100	27.2	55.6	V
2	2379.496	53.8	74.0	20.2	300	27.3	55.7	V
3	2403.123	86.5	125.2	38.7	200	27.4	55.7	V
4	2421.045	86.8	125.2	38.4	100	27.4	55.7	V
5	2442.573	58.3	125.2	66.9	200	27.5	55.7	V
6	2480.513	40.0	125.2	85.2	300	27.6	55.7	V

802.11n40 2452

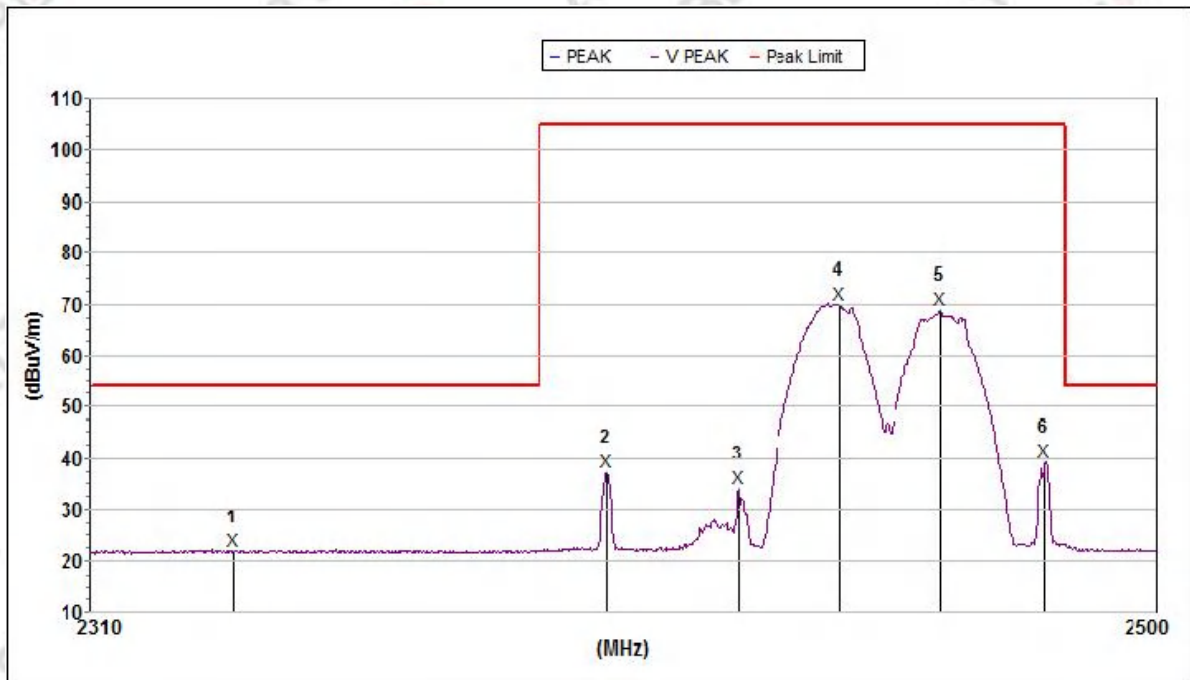
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2334.044	21.9	54.0	32.1	100	27.2	55.6	H
2	2402.363	30.4	105.2	74.8	300	27.4	55.7	H
3	2437.944	68.8	105.2	36.4	200	27.5	55.7	H
4	2463.124	67.7	105.2	37.5	100	27.5	55.7	H
5	2479.925	46.4	105.2	58.8	200	27.6	55.7	H
6	2497.432	22.3	54.0	31.7	300	27.6	55.7	H

802.11n40 2452

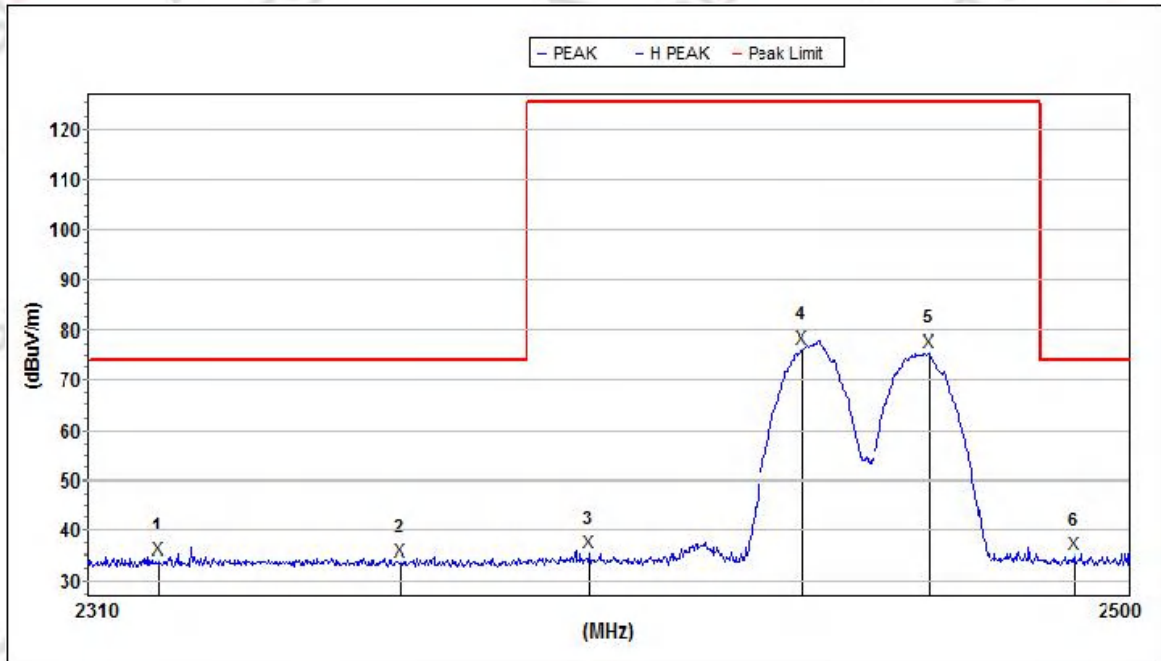
Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG								
1	2335.520	21.9	54.0	32.1	100	27.2	55.6	V
2	2401.984	37.2	105.2	68.0	300	27.4	55.7	V
3	2425.450	34.1	105.2	71.1	200	27.4	55.7	V
4	2443.539	69.8	105.2	35.4	100	27.5	55.7	V
5	2461.373	68.9	105.2	36.3	200	27.5	55.7	V
6	2480.121	39.3	105.2	65.9	300	27.6	55.7	V

802.11n40 2452

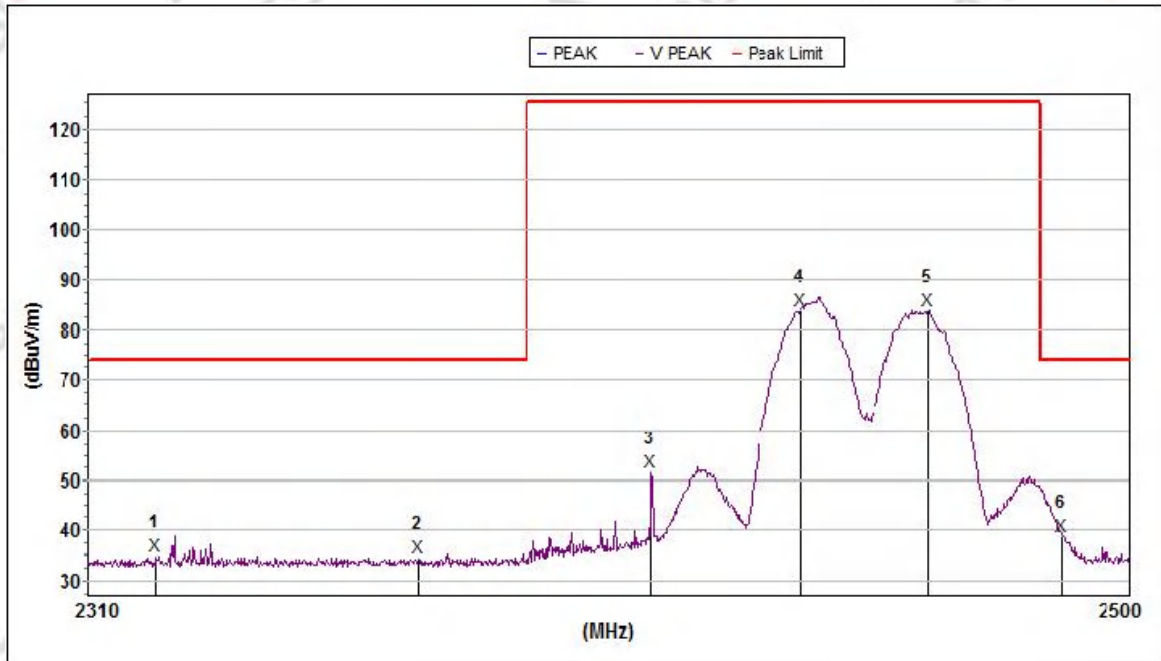
Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HL (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2322.817	34.3	74.0	39.7	100	27.2	55.6	H
2	2366.741	34.0	74.0	40.0	300	27.3	55.6	H
3	2401.414	35.4	125.2	89.8	200	27.4	55.7	H
4	2440.257	76.4	125.2	48.8	100	27.5	55.7	H
5	2463.319	75.7	125.2	49.5	200	27.5	55.7	H
6	2489.745	35.1	74.0	38.9	300	27.6	55.7	H

802.11n40 2452

Vertical



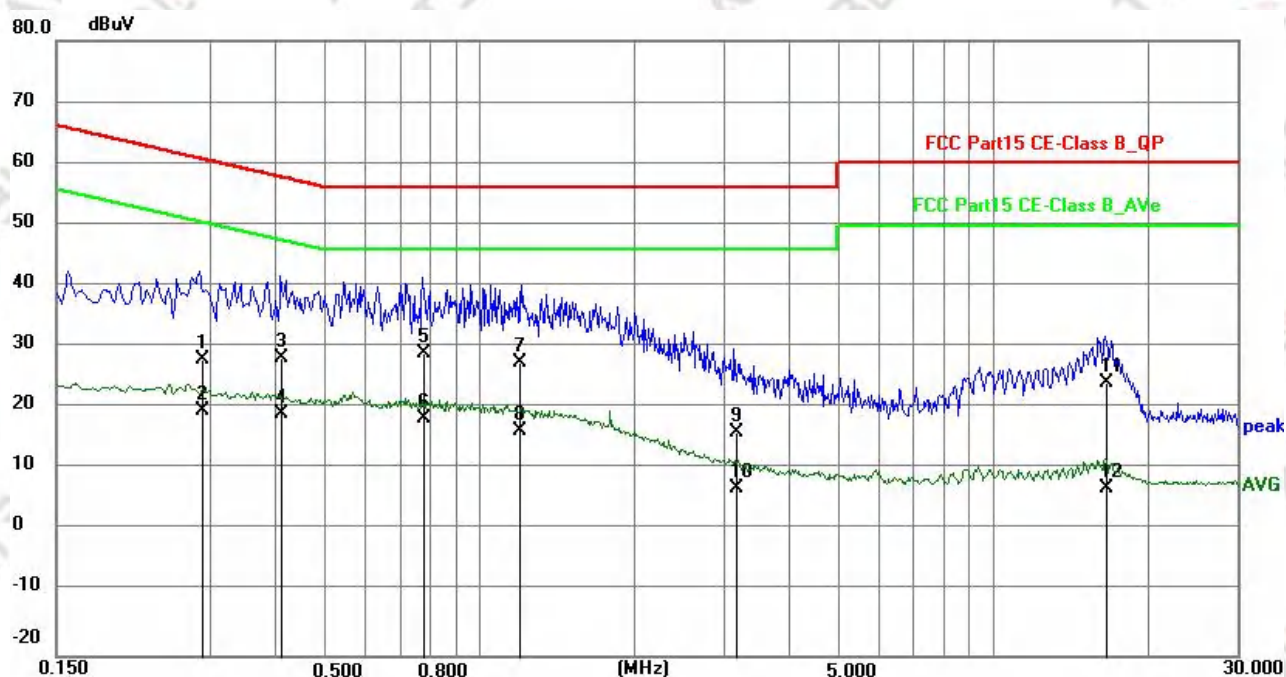
Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	HI. (cm)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
Peak								
1	2322.266	34.8	74.0	39.2	100	27.2	55.6	V
2	2370.298	34.5	74.0	39.5	300	27.3	55.6	V
3	2412.830	51.8	125.2	73.4	200	27.4	55.7	V
4	2439.872	83.9	125.2	41.3	100	27.5	55.7	V
5	2463.124	83.8	125.2	41.4	200	27.5	55.7	V
6	2487.582	38.8	74.0	35.2	300	27.6	55.7	V

Appendix B3.AC Power-Line Conducted Emission Test Data

Remark:

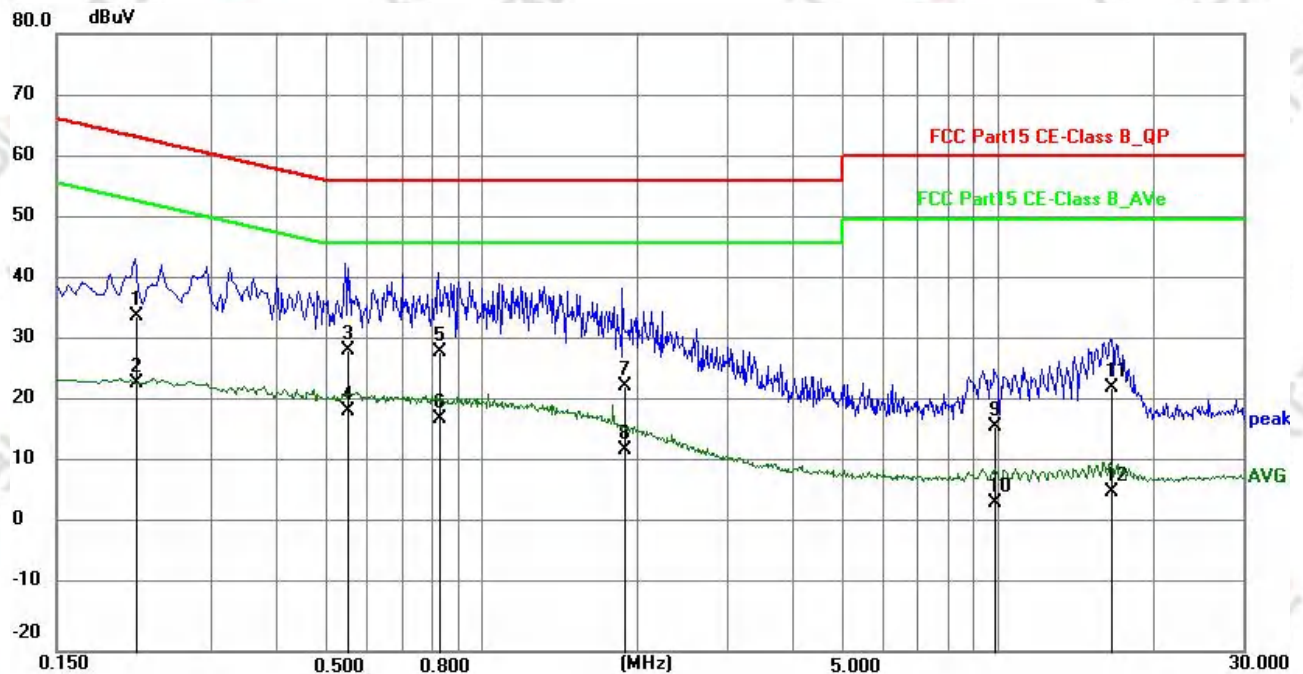
1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit.
3. Factor=LISN factor+Cable loss+Limiter (10dB)

Temperature:	19.5℃	Relative Humidity:	38%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2880	18.19	10.08	28.27	60.58	-32.31	QP
2	0.2880	9.72	10.08	19.80	50.58	-30.78	AVG
3	0.4120	18.53	10.06	28.59	57.61	-29.02	QP
4	0.4120	9.25	10.06	19.31	47.61	-28.30	AVG
5	0.7780	19.43	9.94	29.37	56.00	-26.63	QP
6	0.7780	8.74	9.94	18.68	46.00	-27.32	AVG
7	1.2030	17.84	9.95	27.79	56.00	-28.21	QP
8	1.2030	6.80	9.95	16.75	46.00	-29.25	AVG
9	3.1570	6.31	10.00	16.31	56.00	-39.69	QP
10	3.1570	-2.77	10.00	7.23	46.00	-38.77	AVG
11	16.6380	13.76	10.73	24.49	60.00	-35.51	QP
12	16.6380	-3.47	10.73	7.26	50.00	-42.74	AVG

Temperature:	19.5°C	Relative Humidity:	38%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2130	23.93	10.36	34.29	63.09	-28.80	QP
2	0.2130	13.08	10.36	23.44	53.09	-29.65	AVG
3	0.5500	18.51	10.18	28.69	56.00	-27.31	QP
4	0.5500	8.72	10.18	18.90	46.00	-27.10	AVG
5	0.8290	18.40	10.14	28.54	56.00	-27.46	QP
6	0.8290	7.54	10.14	17.68	46.00	-28.32	AVG
7	1.8890	12.85	10.20	23.05	56.00	-32.95	QP
8	1.8890	2.54	10.20	12.74	46.00	-33.26	AVG
9	9.9090	6.15	10.13	16.28	60.00	-43.72	QP
10	9.9090	-6.19	10.13	3.94	50.00	-46.06	AVG
11	16.6390	12.28	10.35	22.63	60.00	-37.37	QP
12	16.6390	-4.56	10.35	5.79	50.00	-44.21	AVG

*****END OF APPENDIX B*****