

Xigang Technologies Ltd.

TEST REPORT

SCOPE OF WORK

FCC TESTING—MED03, 10335, 10346, 10334

REPORT NUMBER

200526034SZN-001

ISSUE DATE

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03 August 2020

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Xigang Technologies Ltd.

Application
For
Certification

FCC ID: 2AR9J-MED

PHONESOAP MED, Mobile device disinfection station

Model: MED03, 10335, 10346, 10334

2.4GHz Wi-Fi Transceiver

Report No.: 200526034SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-19]

Prepared and Checked by:

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Approved by:

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Technical Supervisor
Date: 03 August 2020

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant Class II Change

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on
that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-19]
Edition] provision.

Report prepared by:

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1.0 Summary of Test results

Applicant: Xigang Technologies Ltd.

Applicant Address: Room 123, Building B, Lane 139, Fanghua RD, Shanghai, China

Model: MED03, 10335, 10346, 10334
FCC ID: 2AR9J-MED

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d), 15.209, FCC 15.205	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a PHONESOAP MED, Mobile device disinfection station with with Bluetooth 4.2 (dual-mode) function operating in 2402-2480MHz, 2.4G WIFI function operating in 2412-2462MHz. The EUT is powered by AC/DC adaptor through AC120V/60Hz. For more detailed features description, please refer to the user's manual.

Type of Modulation: CCK, BPSK, QPSK, 16QAM, 64QAM, DQPSK, DBPSK.

Antenna Type: Integral Antenna

Antenna Gain: 3.7dBi Max

The Model: 10335, 10346, 10334 are the same as the Model: MED03 in hardware and electrical aspect. The differences in model number and trade name serve as marketing strategy.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (2.4GHz Wi-Fi transmitter portion).

Remaining portions are subject to the following procedures:

1. Receiver portion of WiFi: exempt from technical requirement of this Part.
2. For the BT 4.2 BLE mode was tested and demonstrated in report 200526034SZN-002.
3. For the BT 4.2 EDR mode was tested and demonstrated in report 200526034SZN-003.
4. Other Digital Function: Subject to FCC Part 15B SDOC.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber and shielded room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by AC/DC adaptor with AC120V/60Hz input during the test.

On 802.11b/g/n-HT20/n-HT40 mode, only one antenna is used, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The rear of unit shall be flushed with the rear of the table.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test Software: ESP_RF_test_tool_v2.5

3.3 Special Accessories

AC power line with a ferrite core.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by Xigang Technologies Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Adapter	N/A	Model: KS150DU-1201250 Input: 100-240V~, 50/60Hz, 2.5A; Output: 12.0Vdc, 12.5A, 150W (AC power line with a ferrite core)

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.0 Measurement Results**4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):**

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 3.7dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	22.77	189.23
Middle Channel: 2437	22.39	173.38
High Channel: 2462	22.42	174.58

IEEE 802.11g (Antenna Gain = 3.7dBi) (16QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	23.97	249.46
Middle Channel: 2437	23.87	243.78
High Channel: 2462	23.90	245.47

IEEE 802.11n-HT20 (Antenna Gain = 3.7dBi) (64QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	24.11	257.63
Middle Channel: 2437	24.09	256.45
High Channel: 2462	24.01	251.77

IEEE 802.11n-HT40 (Antenna Gain = 3.7 dBi) (64QAM, 13.5Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2422	24.17	261.22
Middle Channel: 2437	24.05	254.10
High Channel: 2452	24.11	257.63

Cable loss: 1.0 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 24.17dBm

EUT max. E.I.R.P = 24.17dBm + 3.7dBi = 27.87dBm = 612.35mW

For RF Exposure, the information is saved with filename: RF exposure.pdf.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	10.072
2437	10.072
2462	10.029

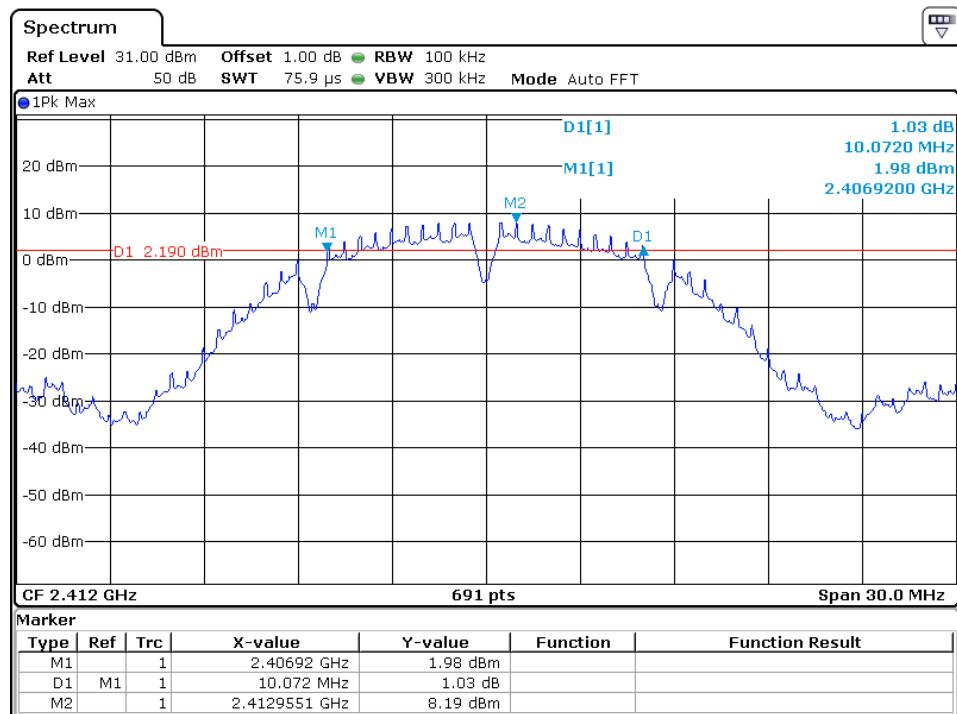
IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	16.411
2437	16.368
2462	16.368

IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	17.540
2437	17.583
2462	17.540

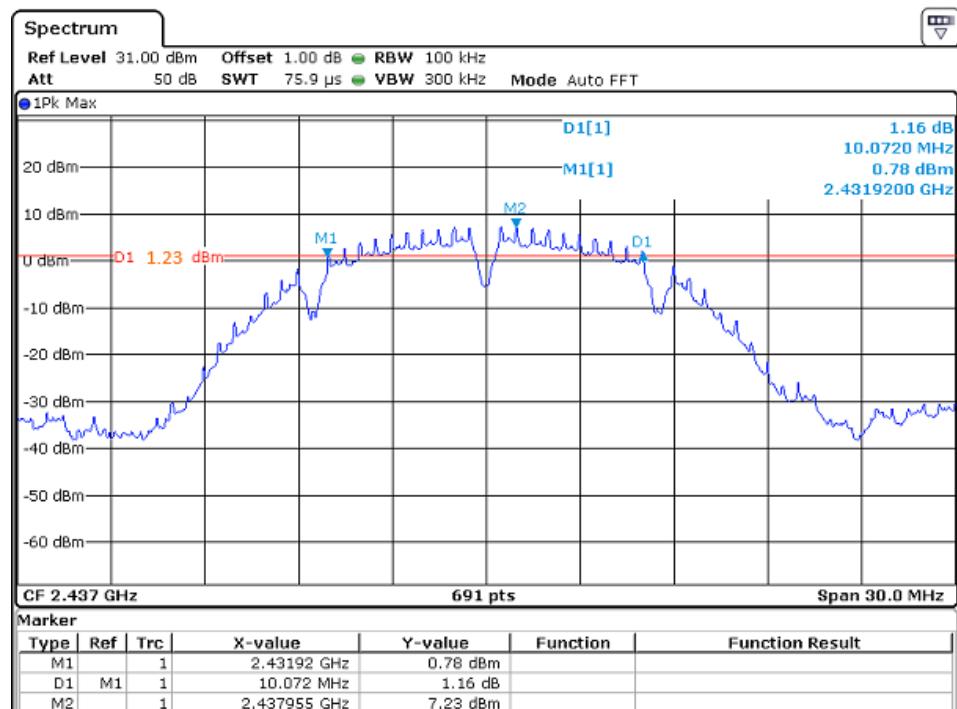
IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2422	36.252
2437	36.107
2452	35.818

The test plots are attached as below.

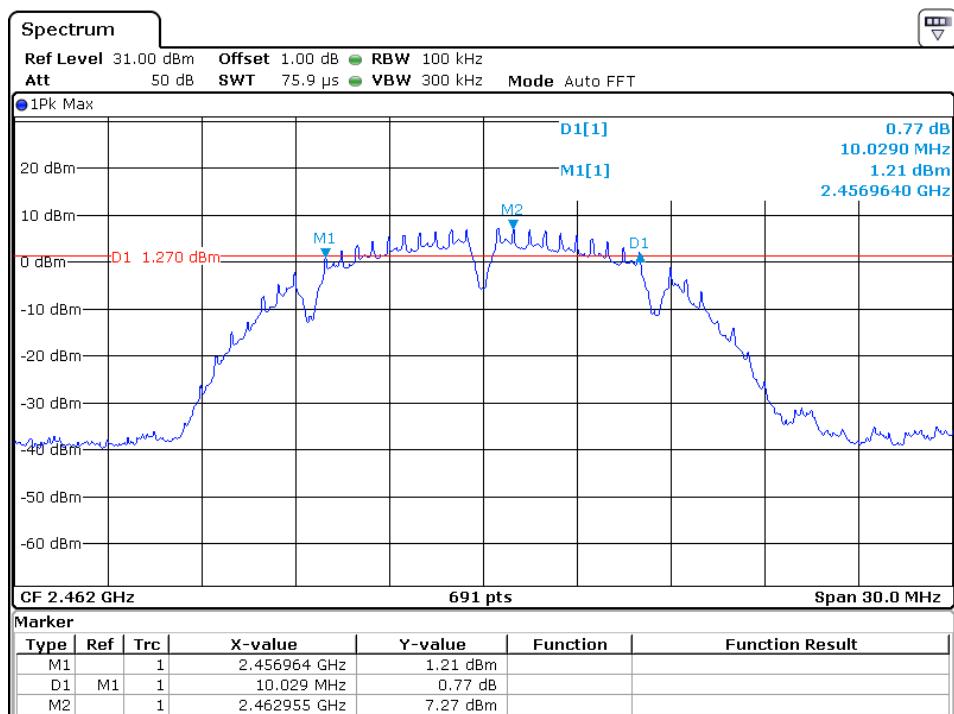
802.11b



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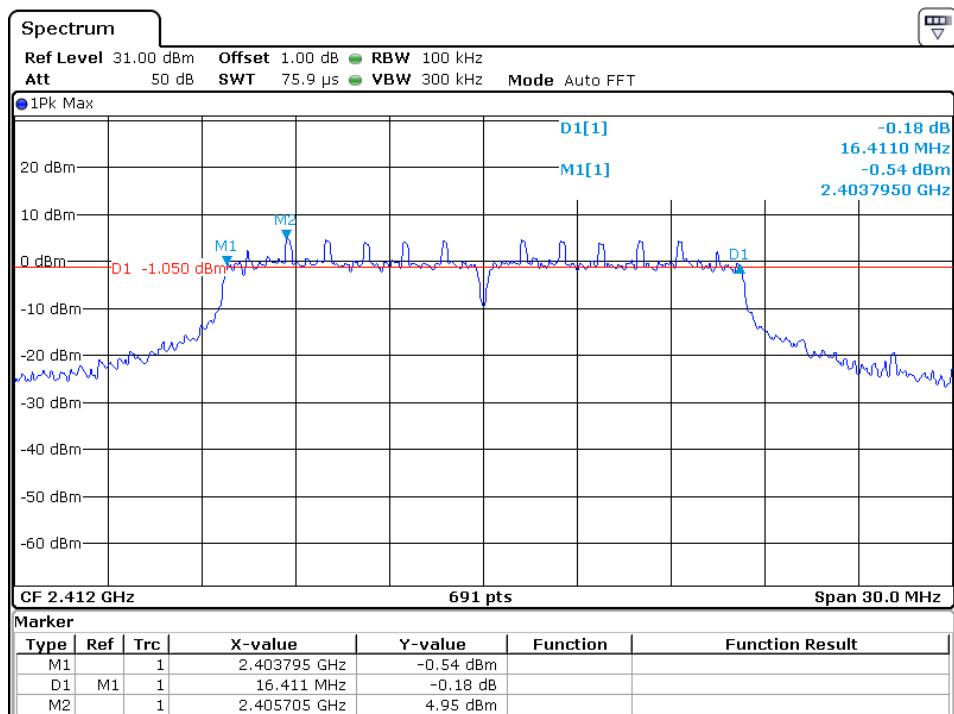


Date: 14 JUL 2020 10:16:04

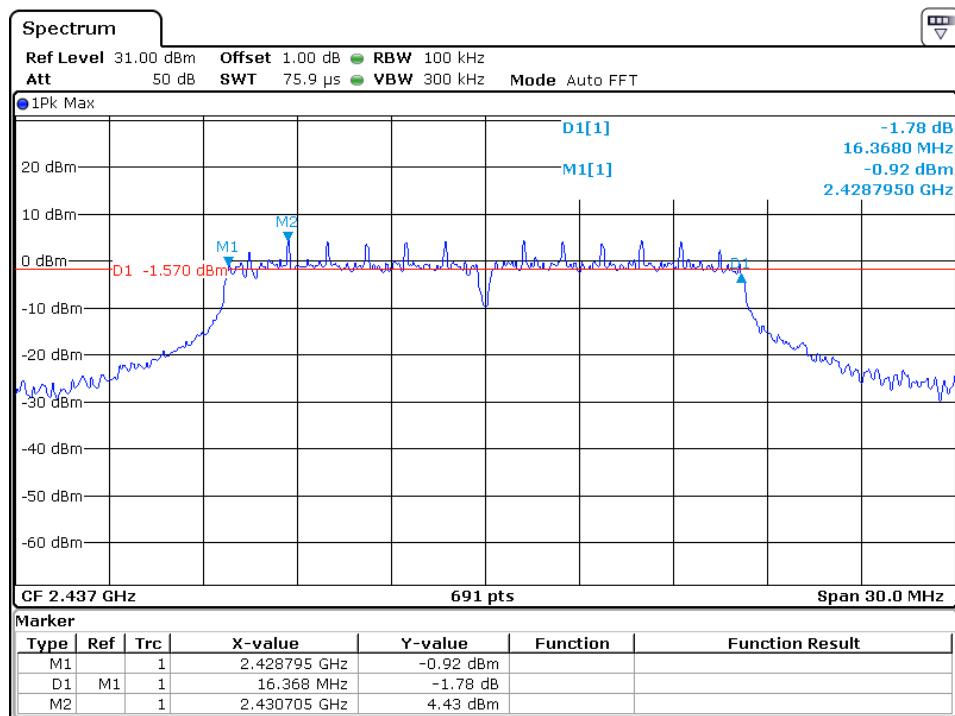


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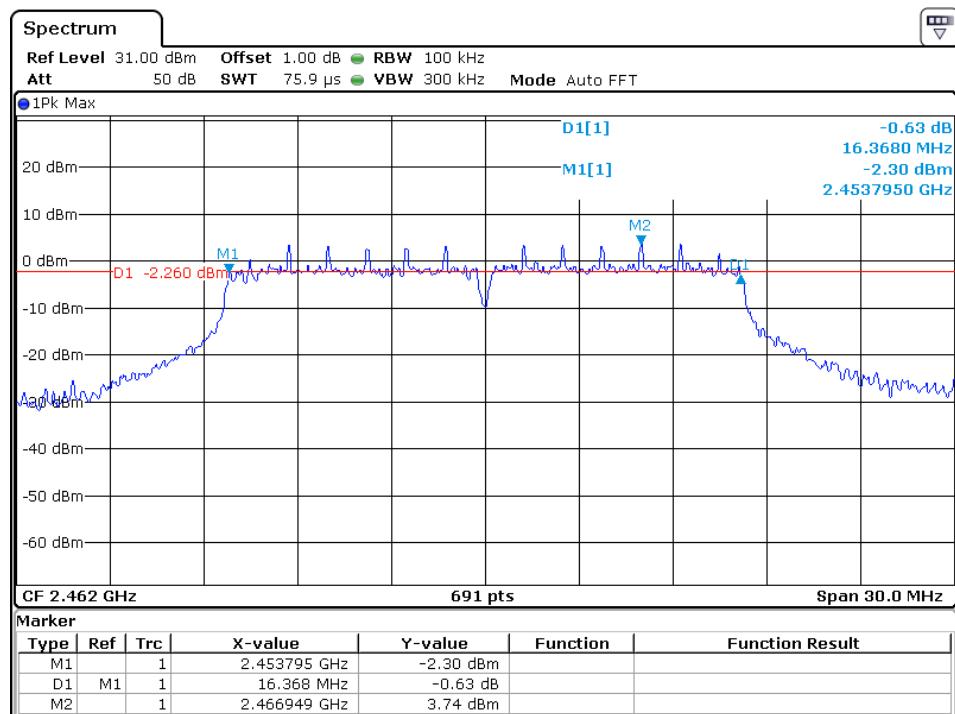
802.11g



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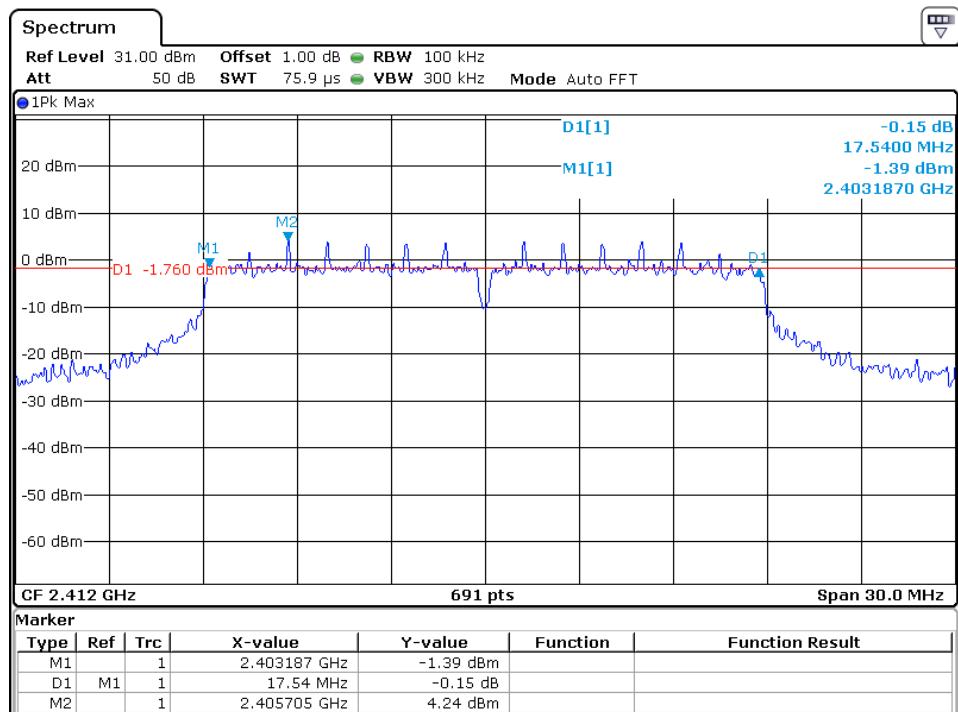


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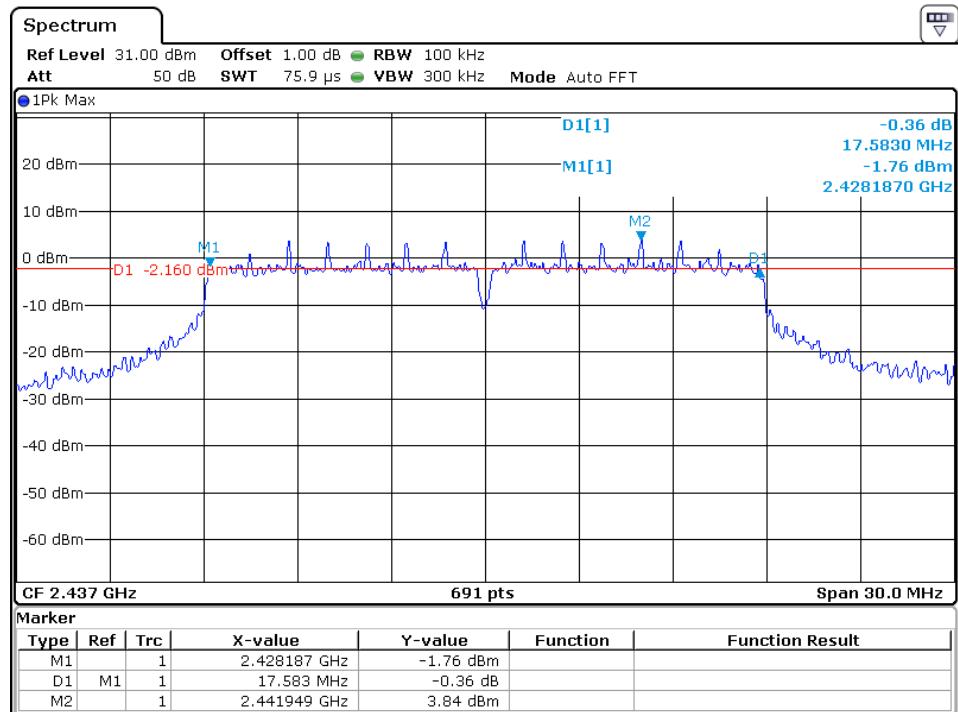


Date: 14 JUL 2020 10:59:55

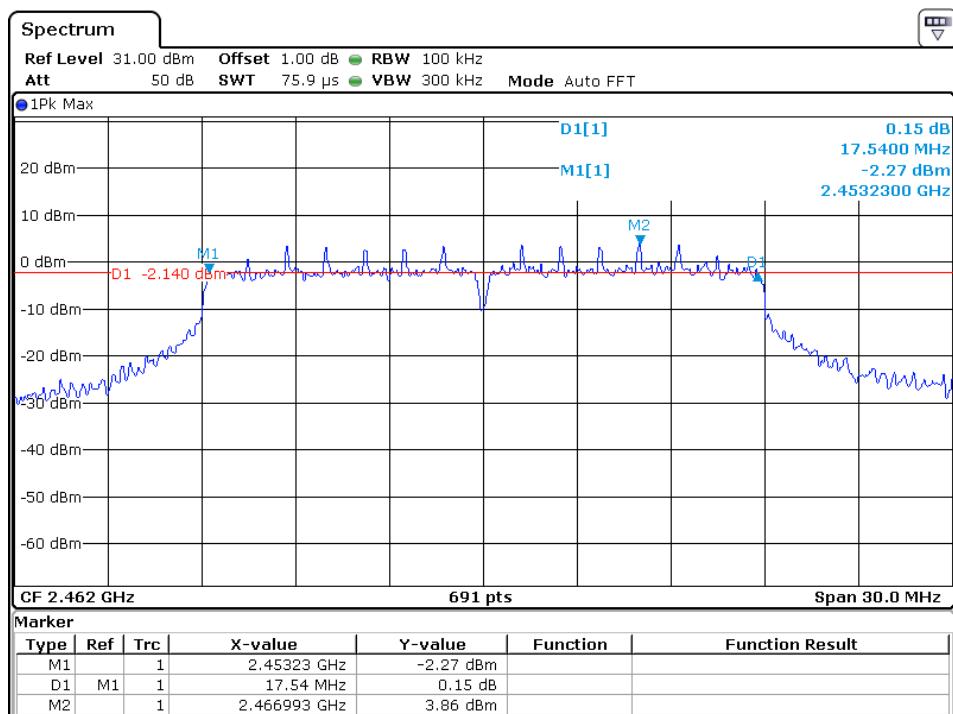
802.11n-HT20



Date: 14 JUL 2020 11:03:32

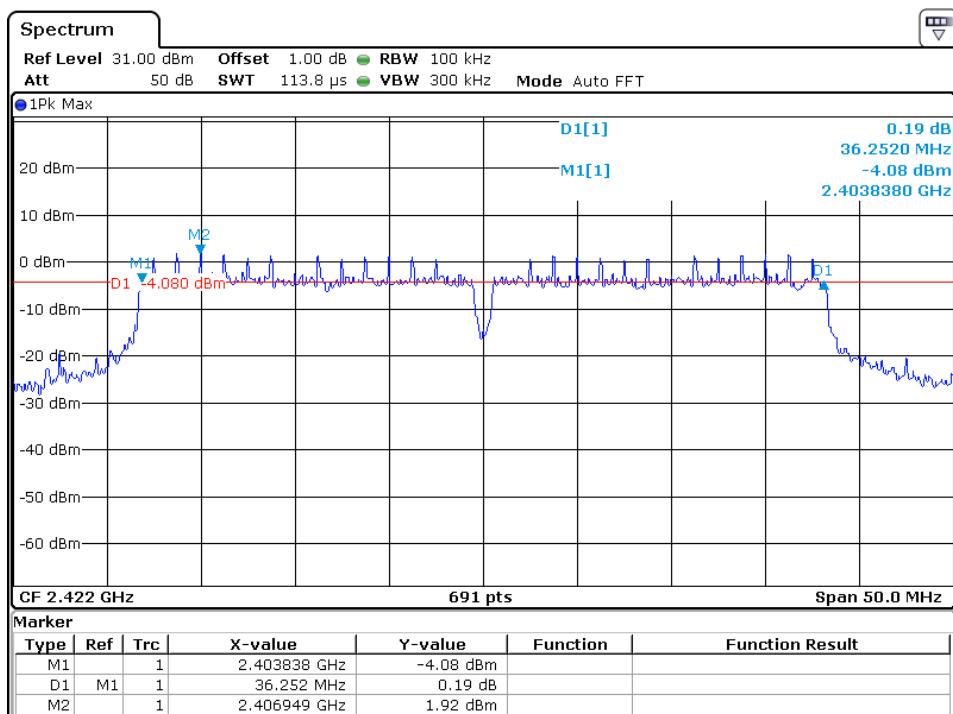


Date: 14 JUL 2020 11:08:52

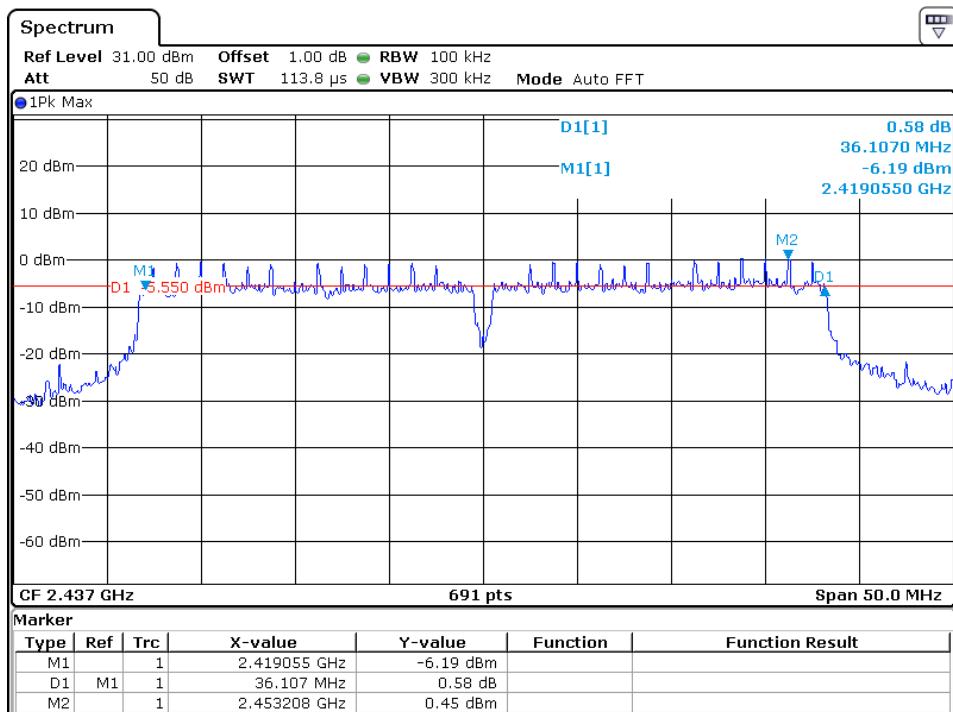


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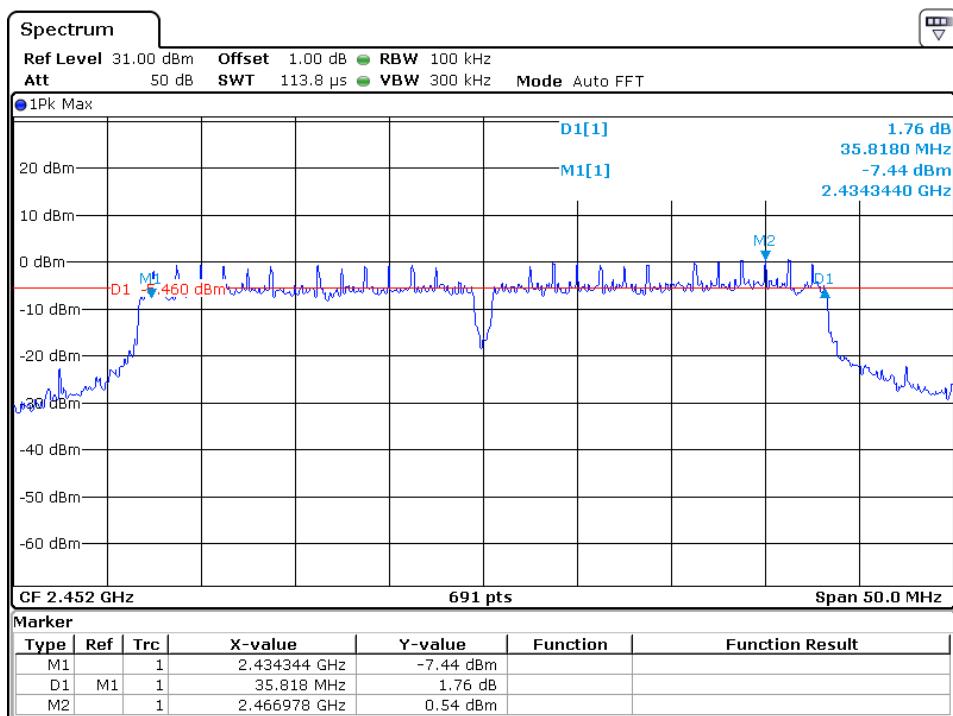
802.11n-HT40



Date: 14 JUL 2020 13:58:09



Date: 14 JUL 2020 14:03:01



Date: 14 JUL 2020 14:36:38

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/3 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Density with RBW 3KHz
2412	-5.16
2437	-5.80
2462	-5.75

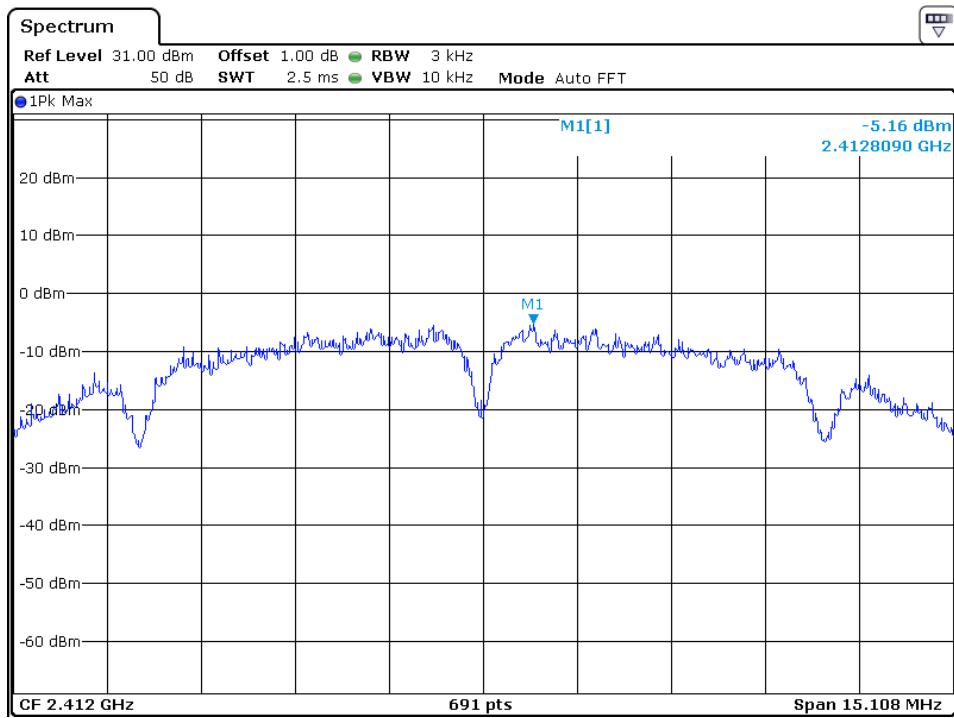
IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	Power Density with RBW 3KHz
2412	-10.49
2437	-11.10
2462	-11.07

IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	Power Density with RBW 3KHz
2412	-11.88
2437	-11.78
2462	-11.86

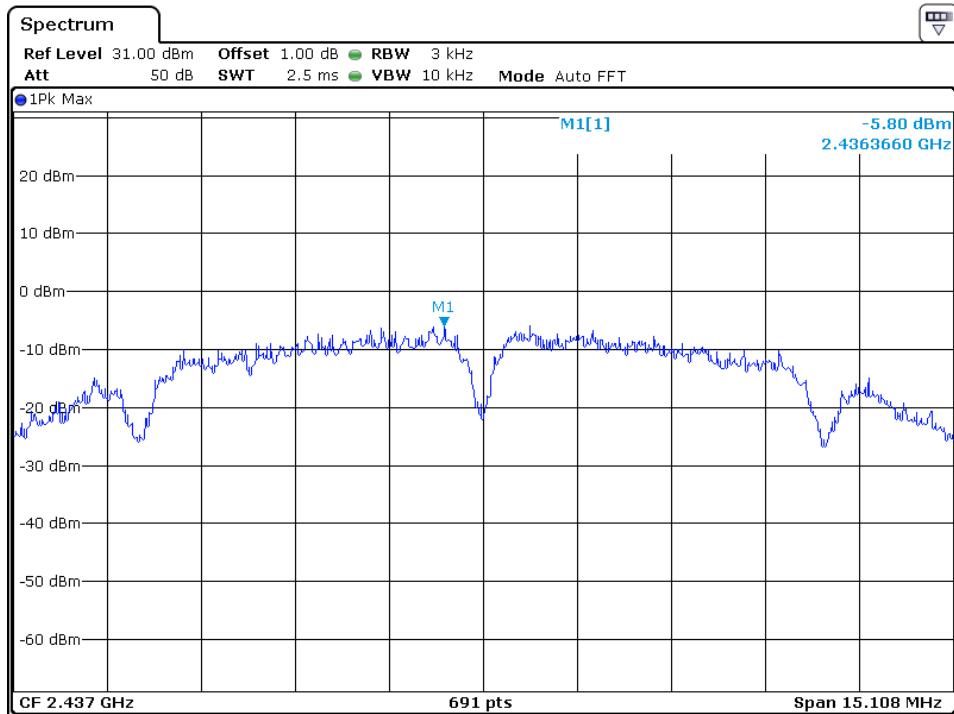
IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	Power Density with RBW 3KHz
2422	-14.55
2437	-14.88
2452	-14.98

The test plots are attached as below.

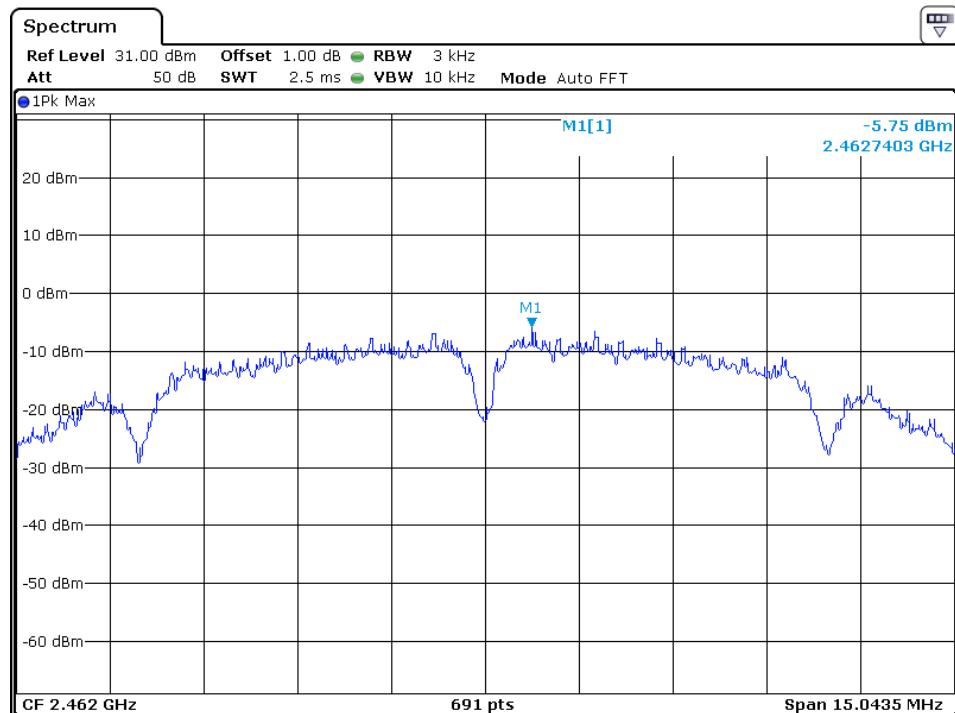
802.11b



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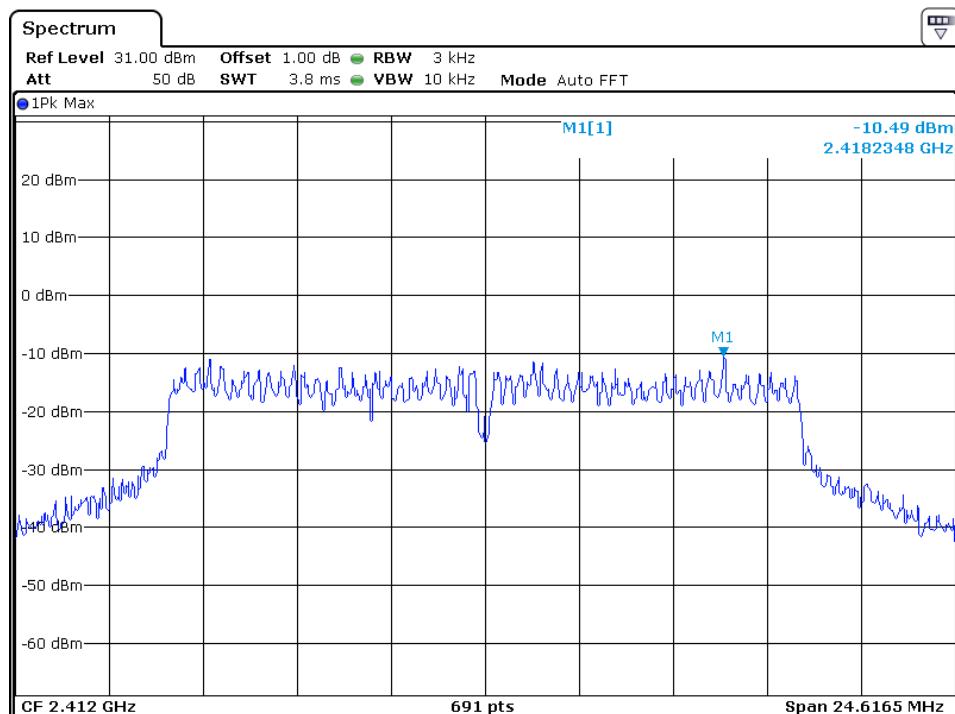


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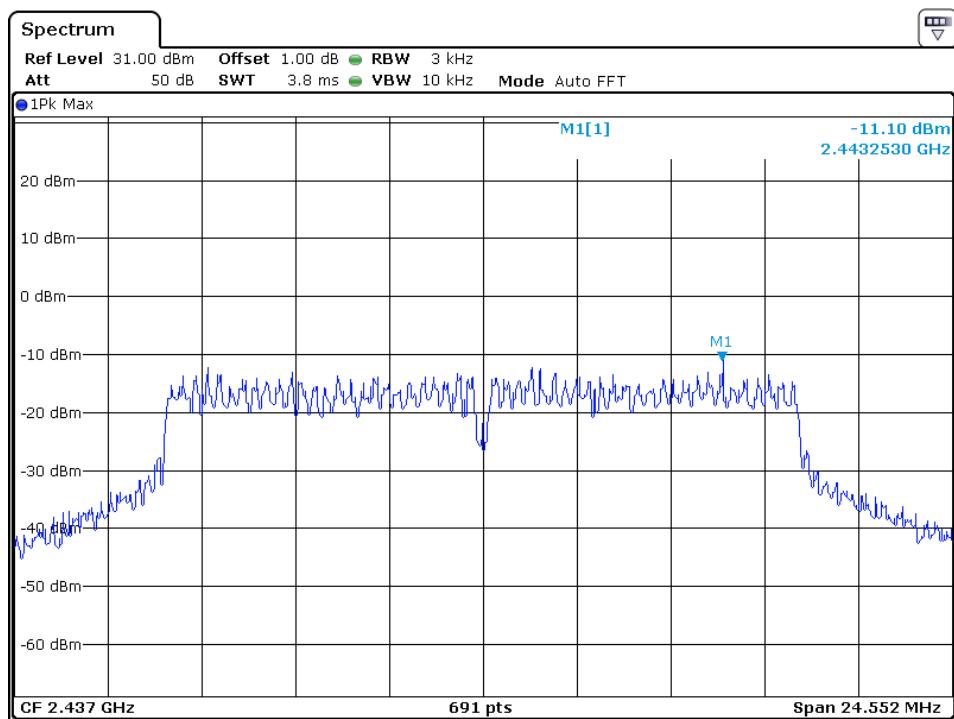


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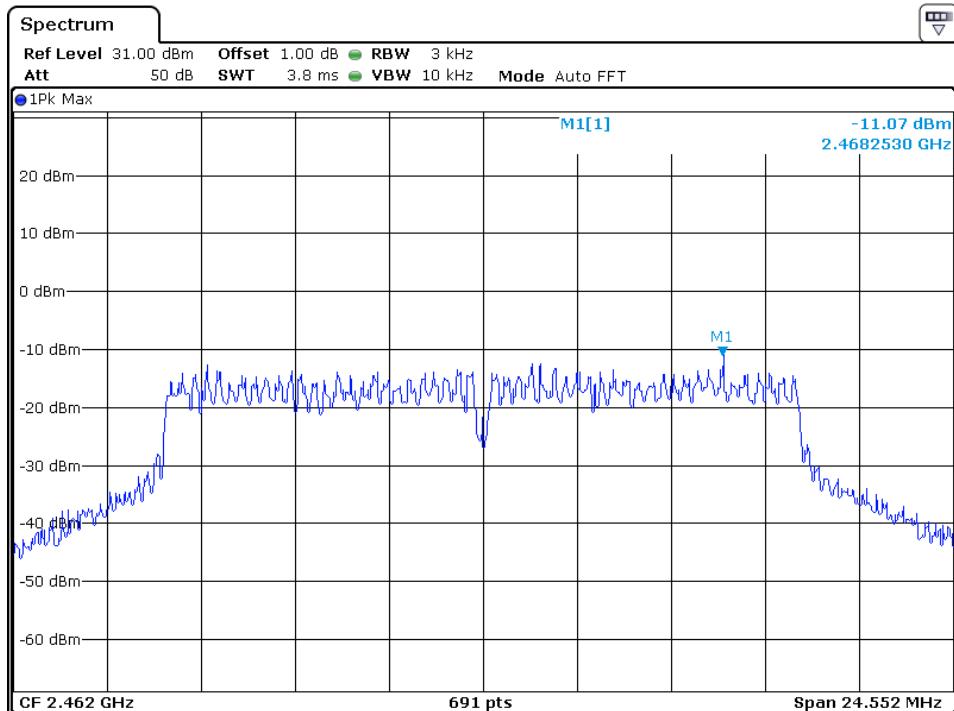
802.11g



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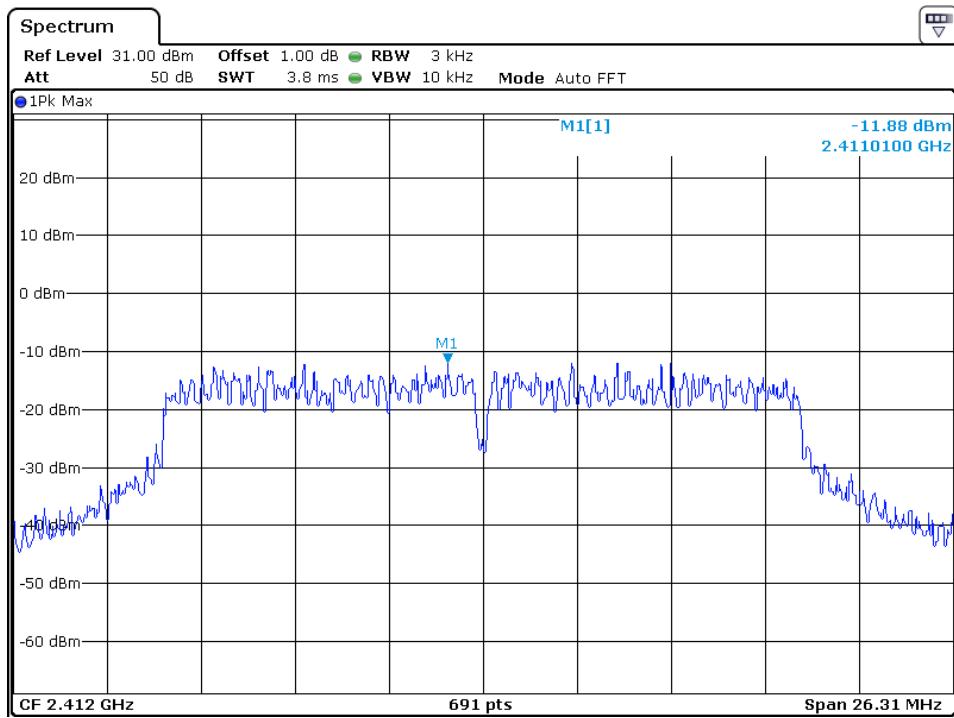


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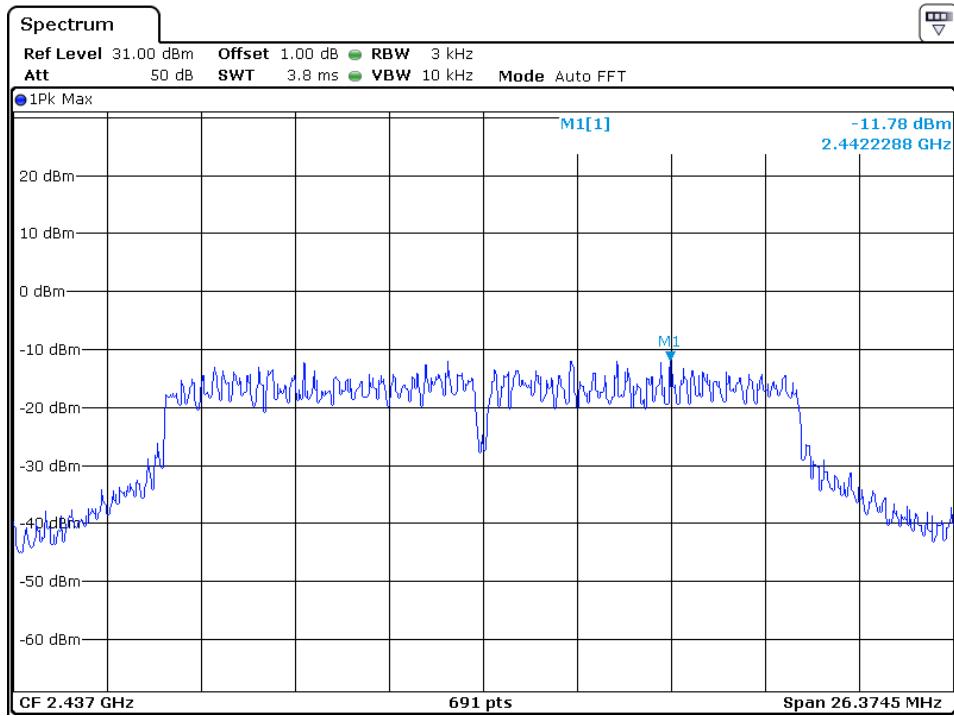


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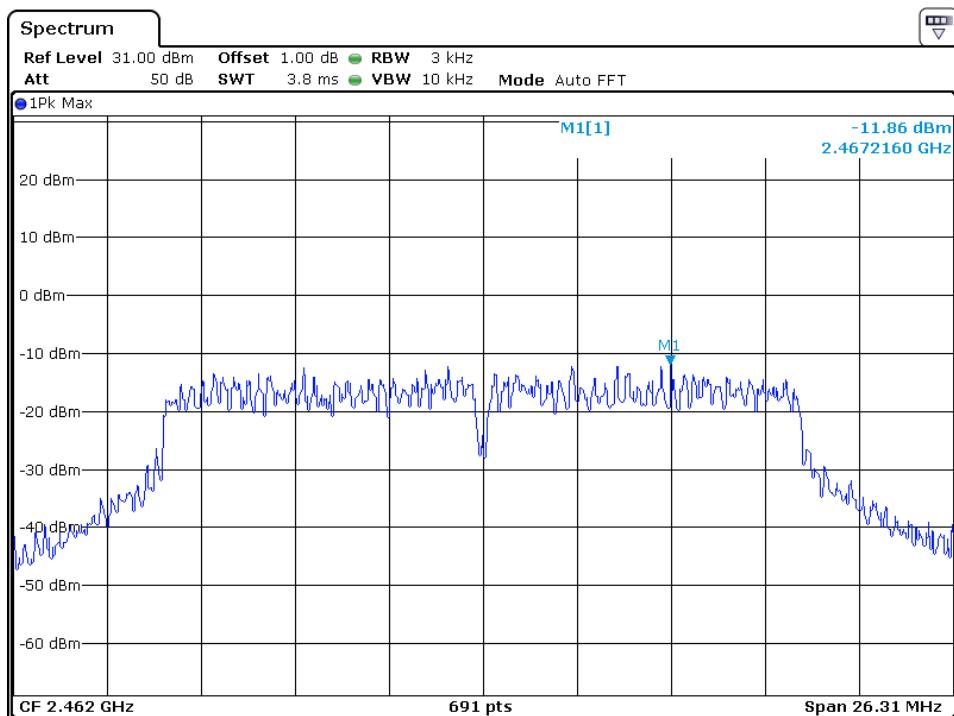
802.11n-HT20



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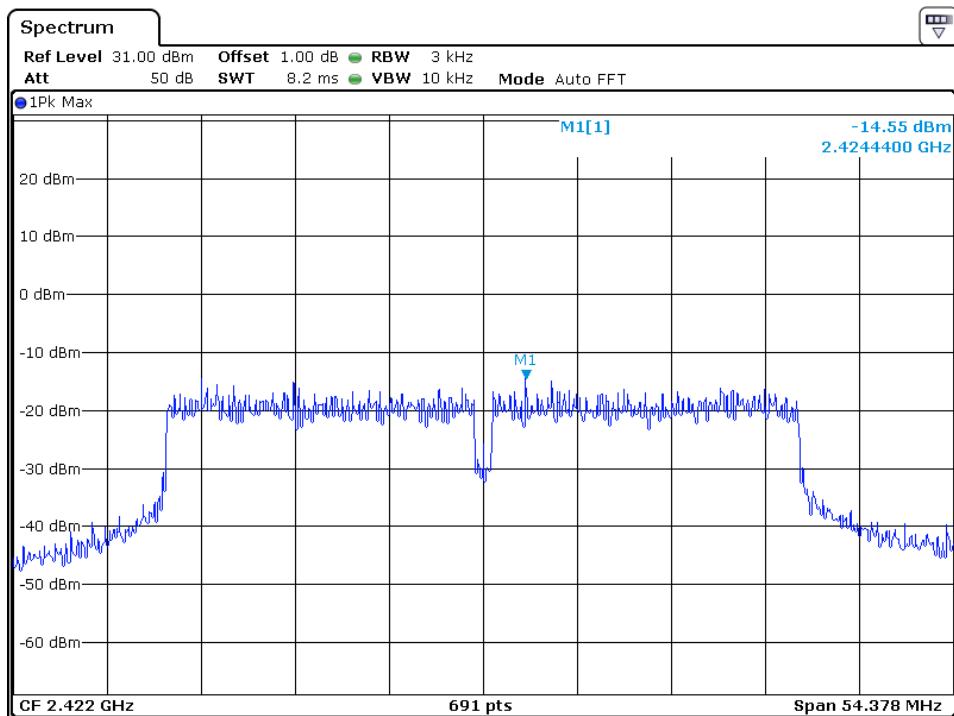


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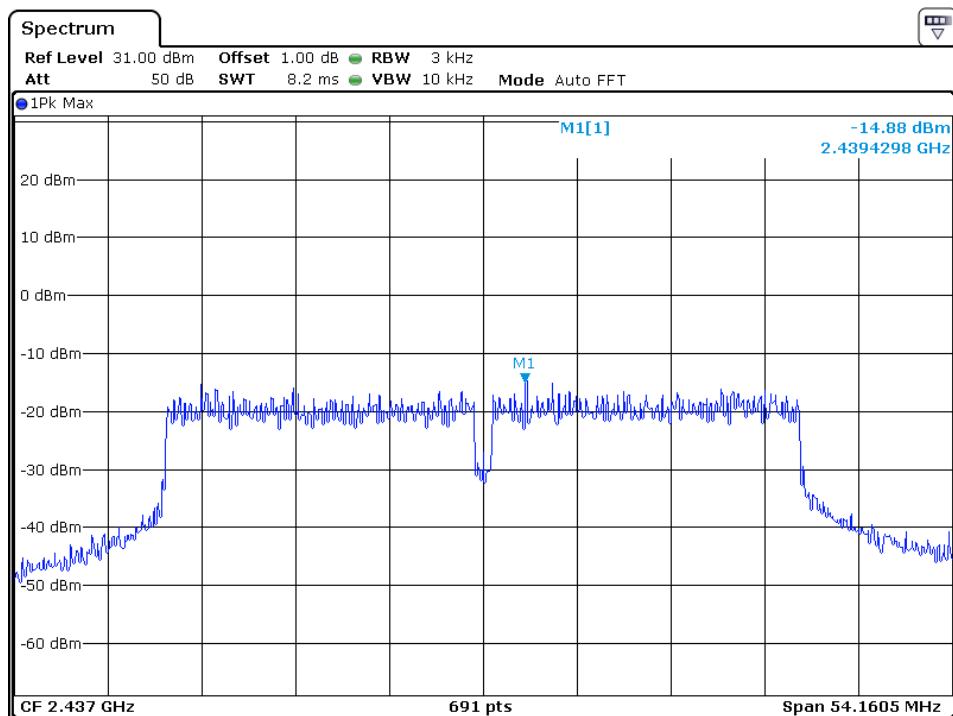


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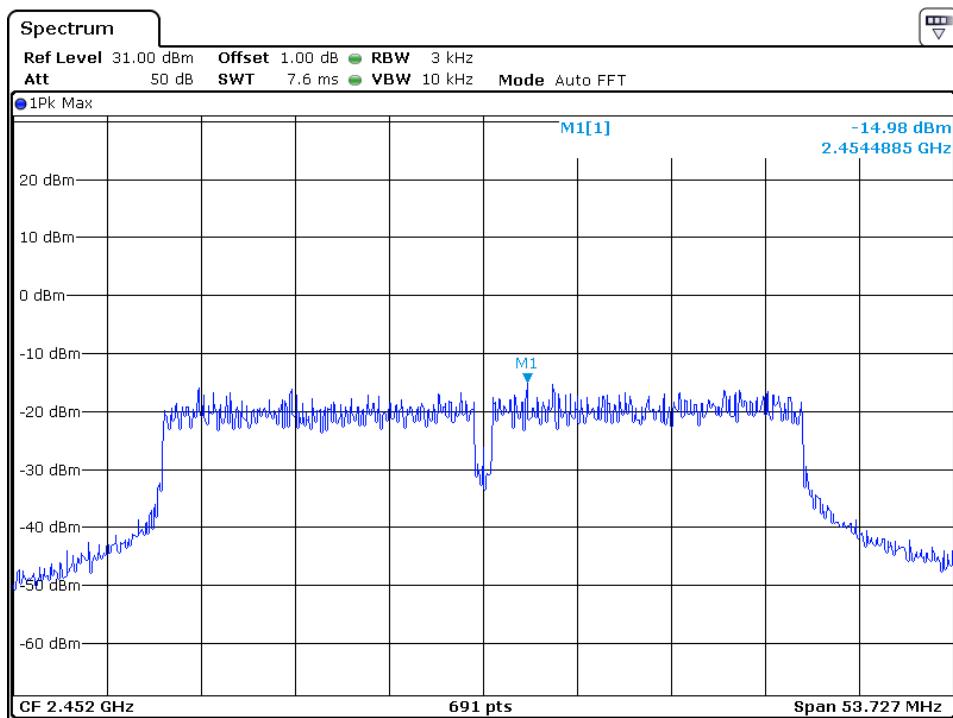
802.11n-HT40



Date: 14 JUL 2020 13:59:04



Date: 14 JUL 2020 14:05:45



Date: 14 JUL 2020 14:37:45

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.4 Out of Band Conducted Emissions, FCC Rule 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. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

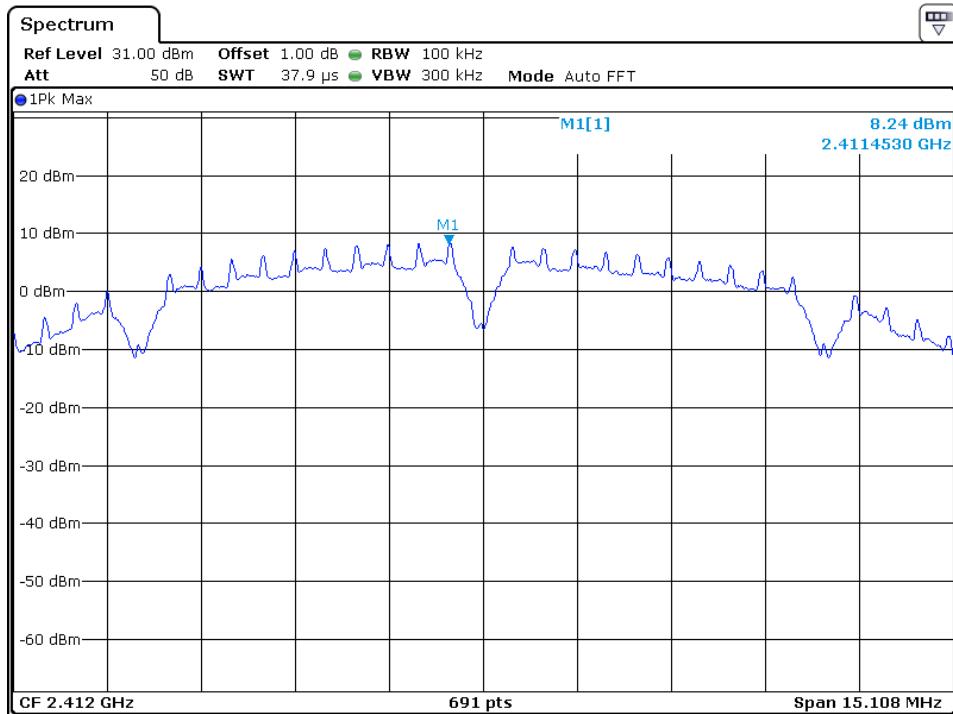
Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20 and 13.5Mbps for 802.11n-HT40.

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

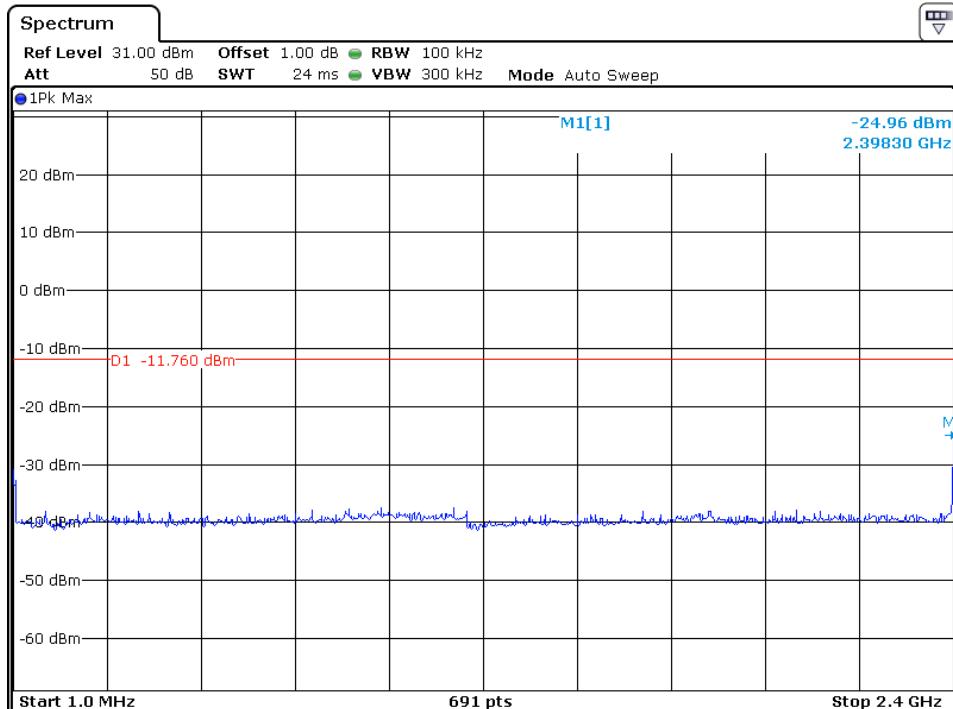
The test plots are attached as below.

802.11b

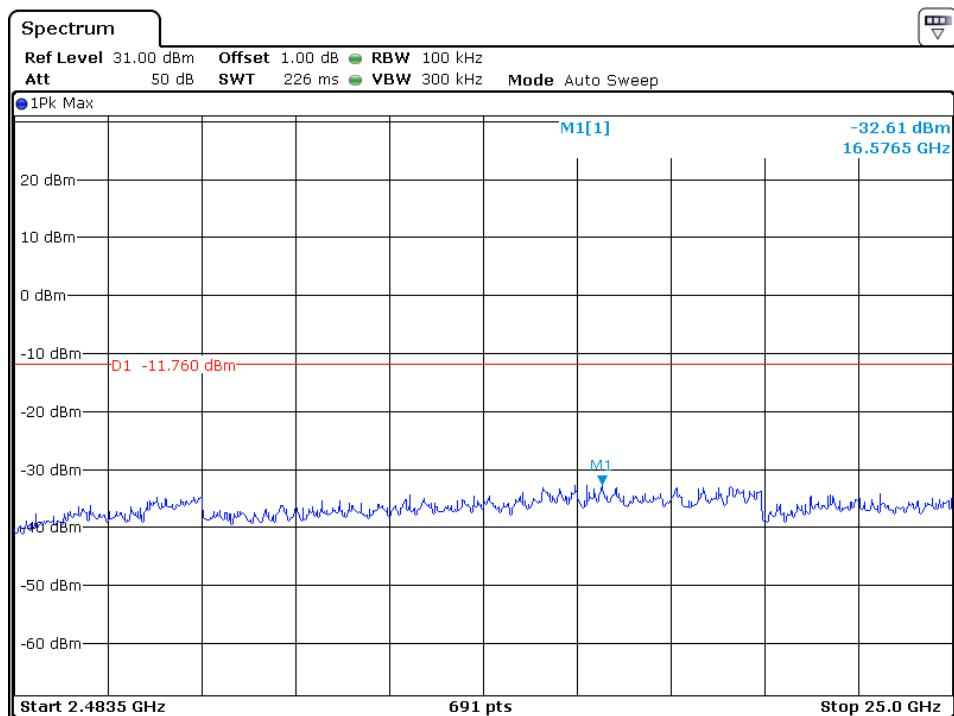
Channel 01 (2412MHz) Reference Level: 8.24dBm



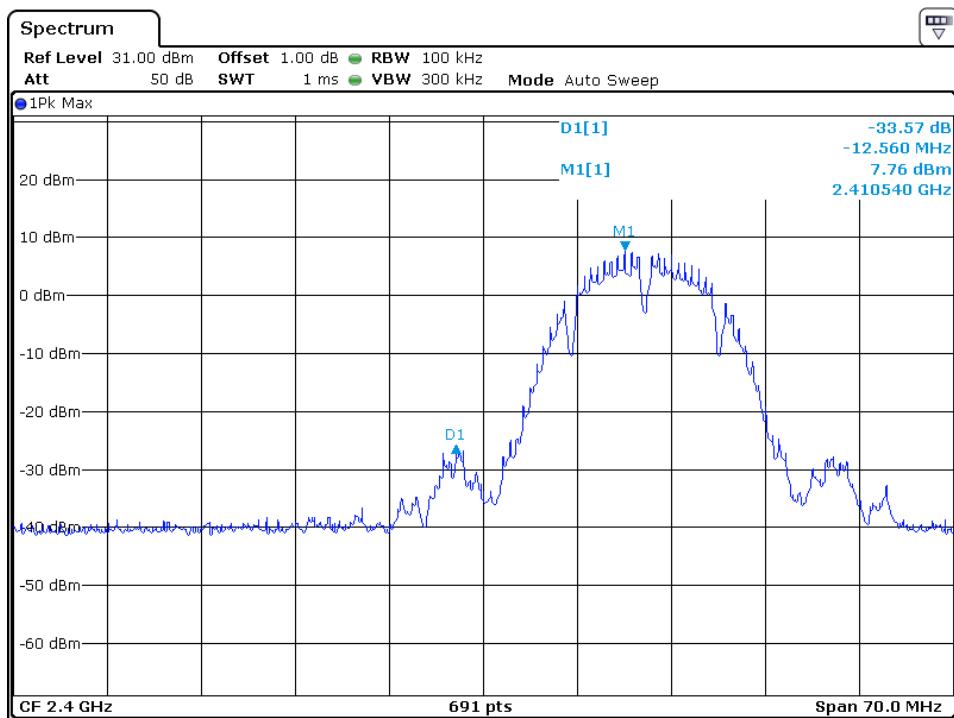
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Date: 14 JUL 2020 10:06:05

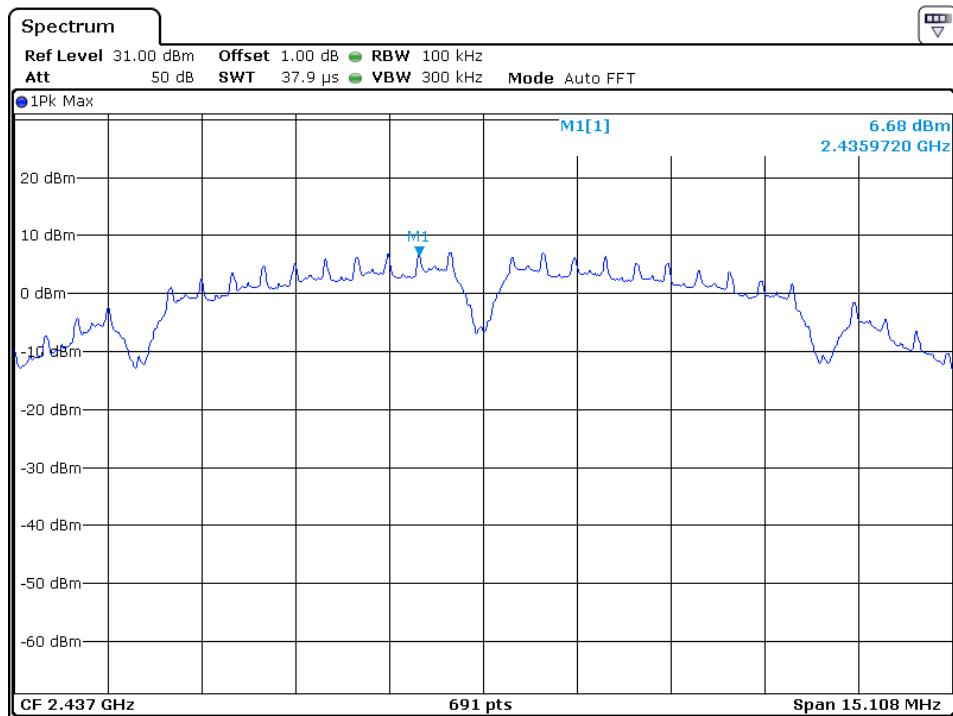


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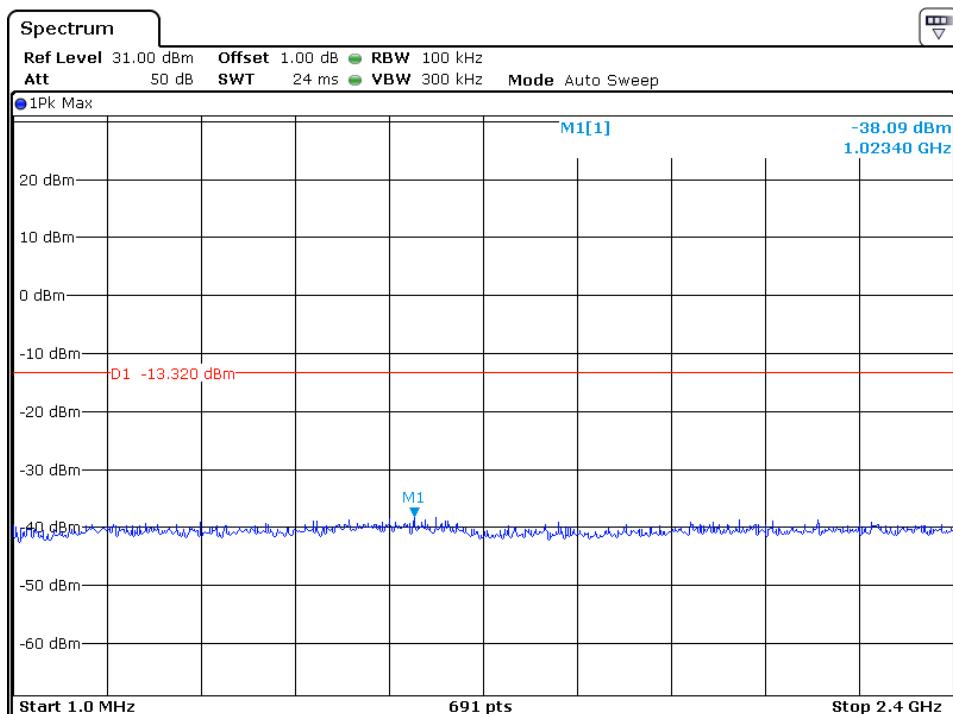


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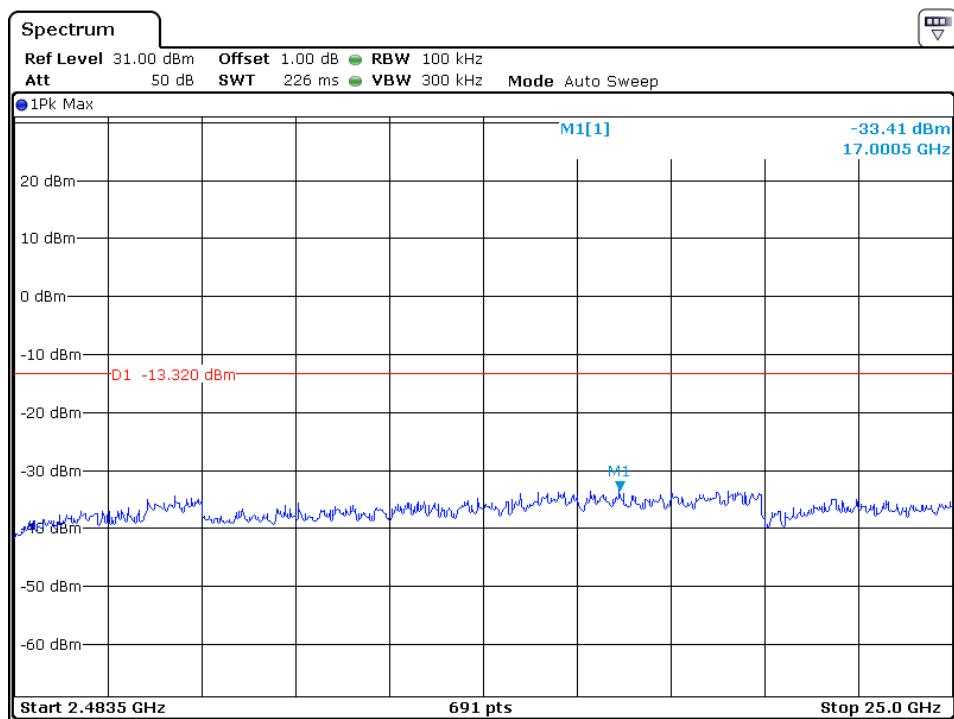
Channel 06 (2437MHz) Reference Level: 6.68dBm



Date: 14 JUL 2020 10:16:49

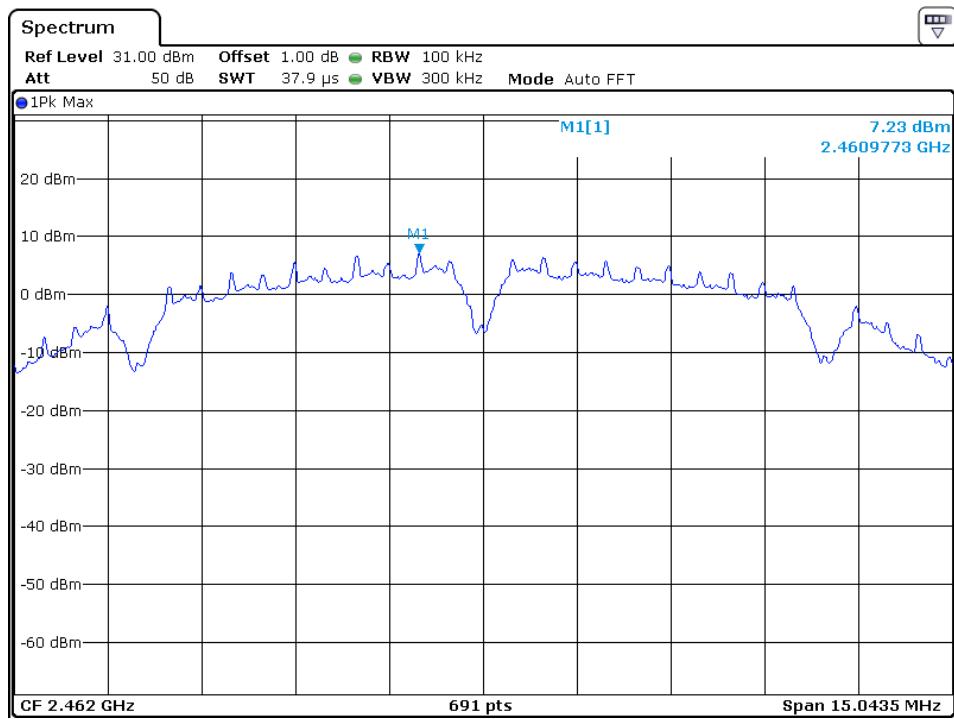


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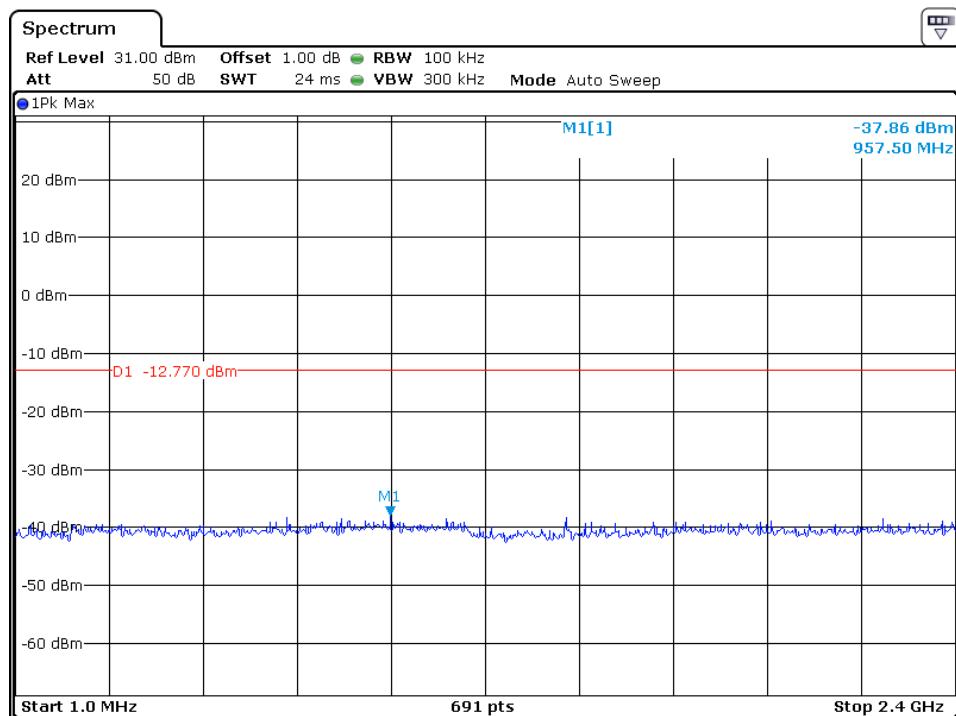


Date: 14 JUL 2020 10:25:51

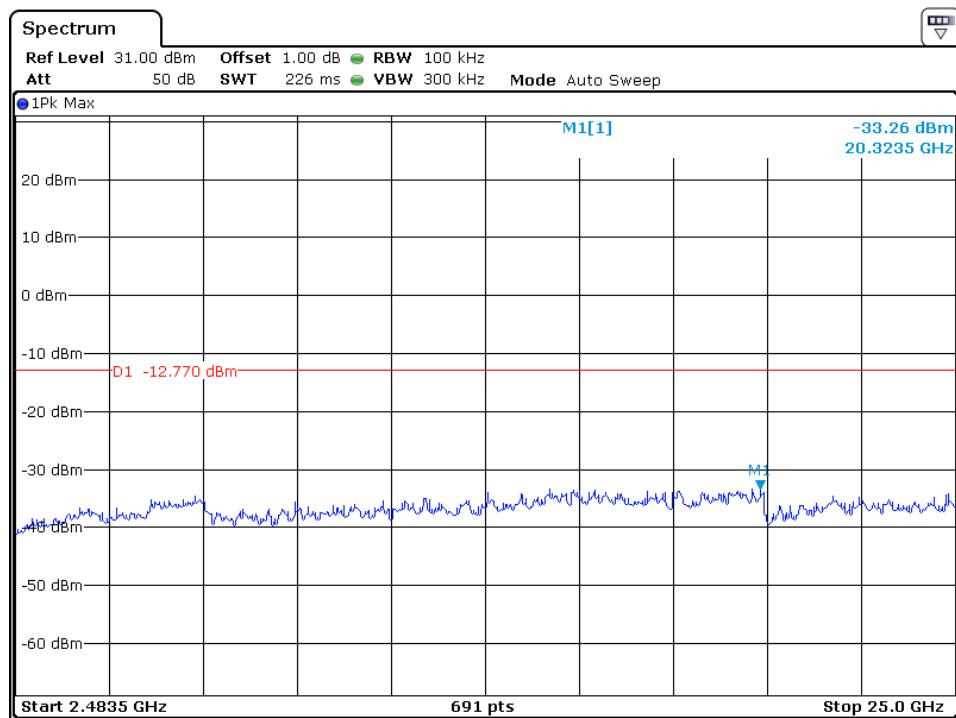
Channel 11 (2462MHz) Reference Level: 7.23dBm



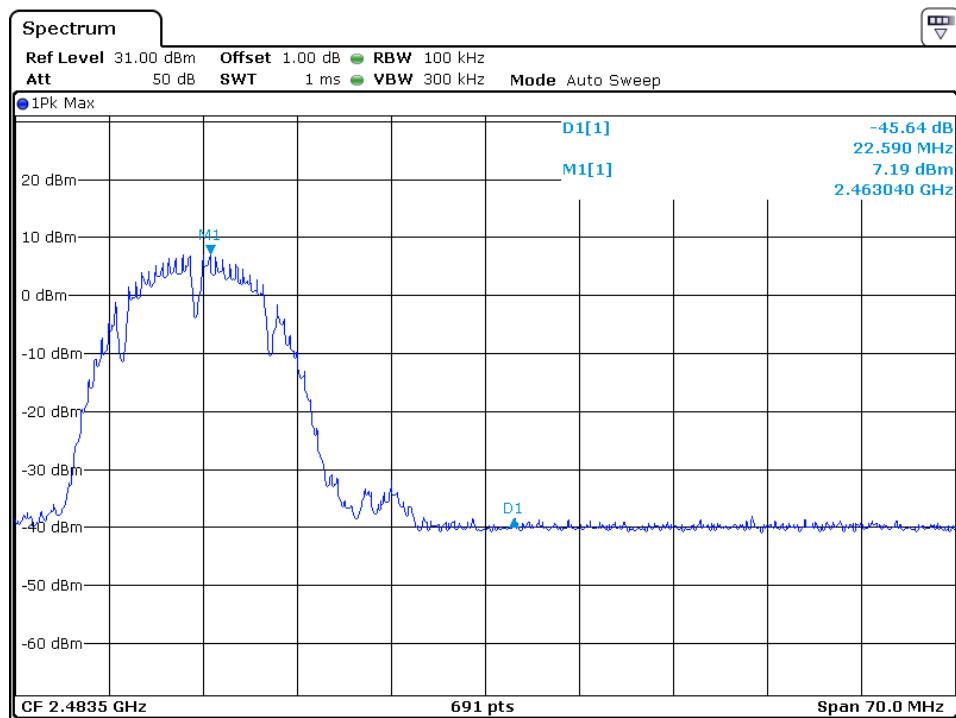
Date: 14 JUL 2020 10:30:16



Date: 14 JUL 2020 10:31:08



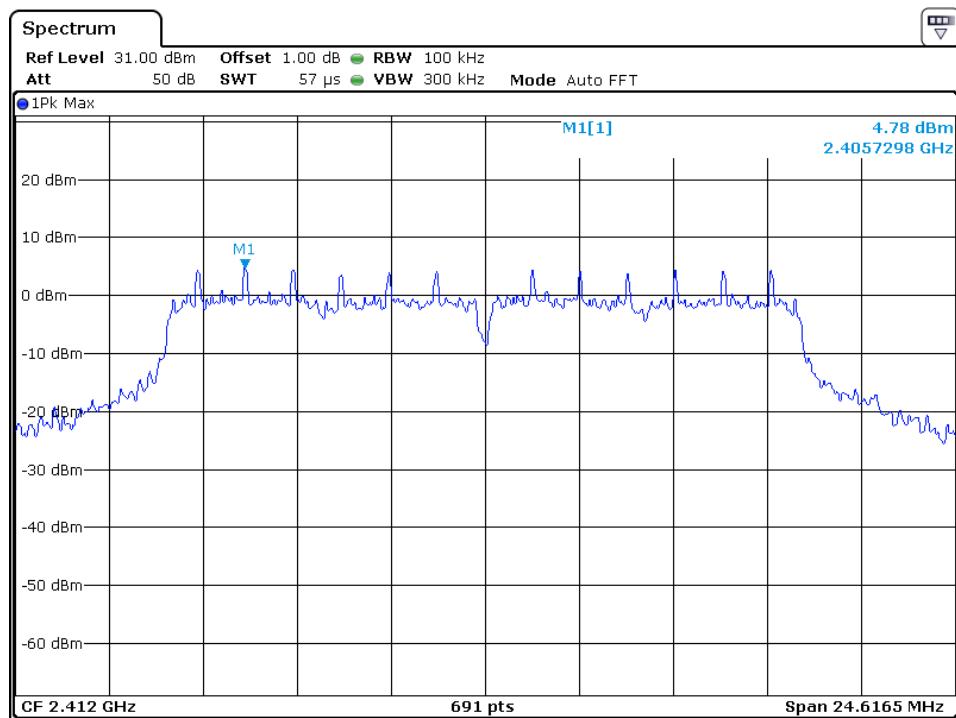
Date: 14 JUL 2020 10:31:27



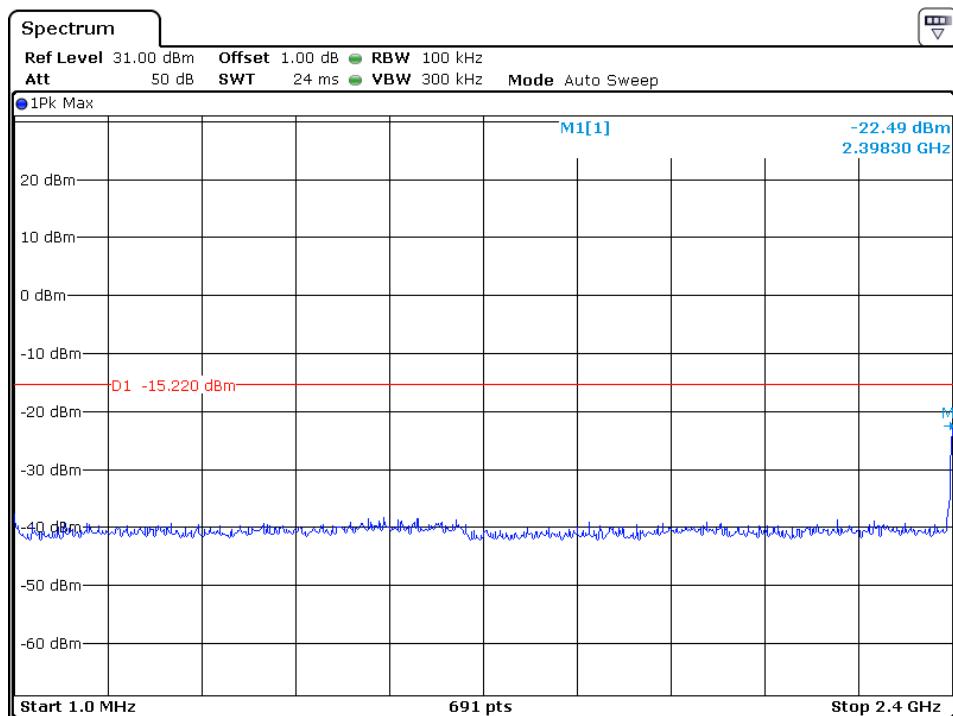
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802.11g

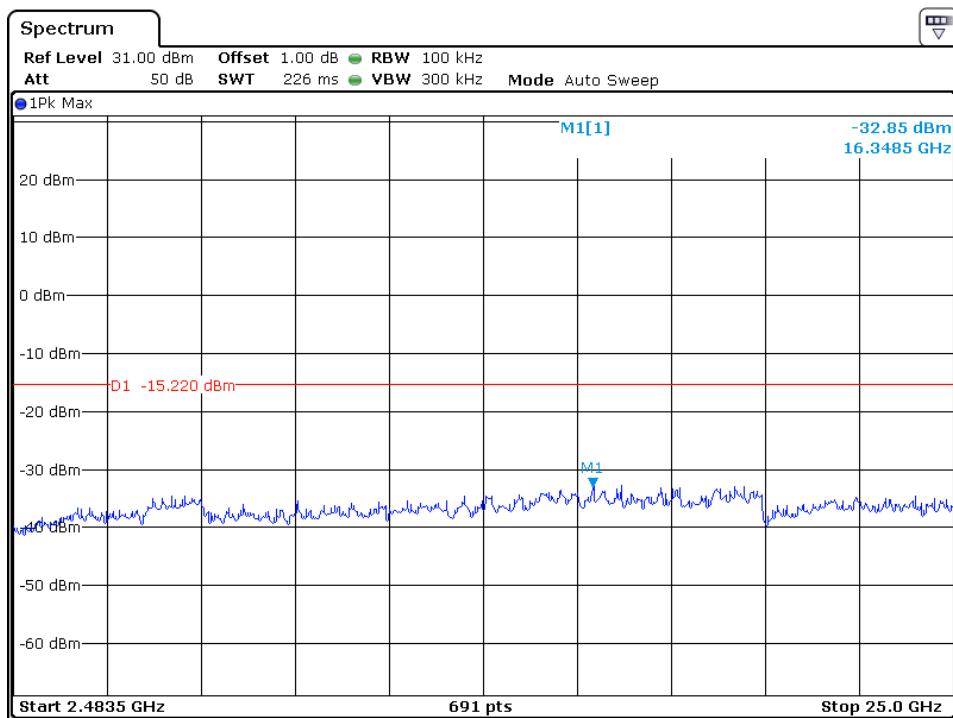
Channel 01 (2412MHz) Reference Level: 4.78dBm



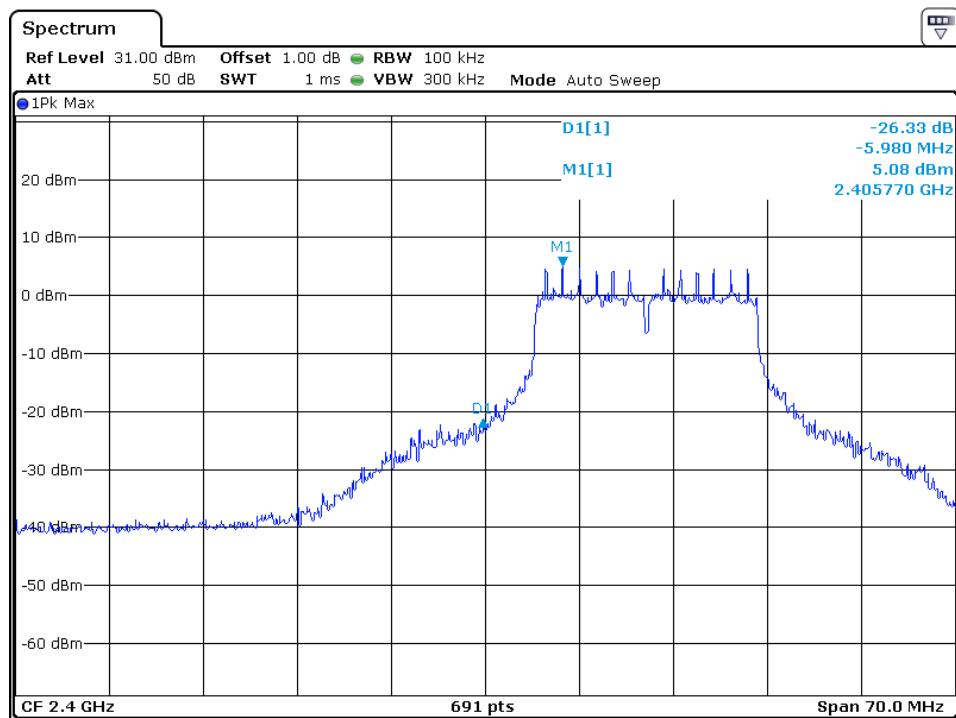
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Date: 14 JUL 2020 10:38:24

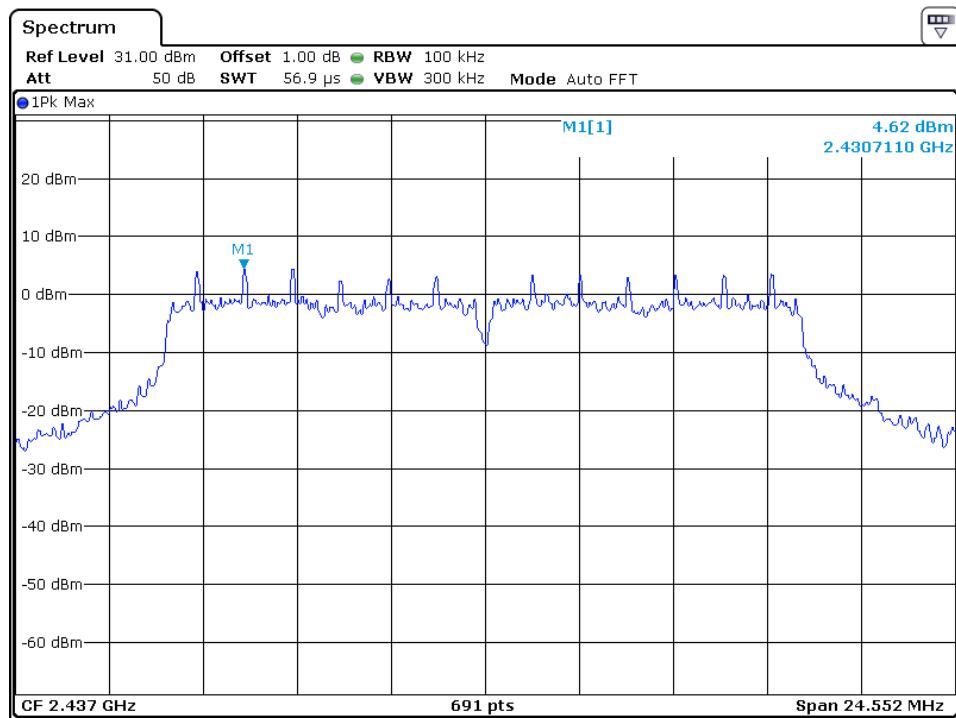


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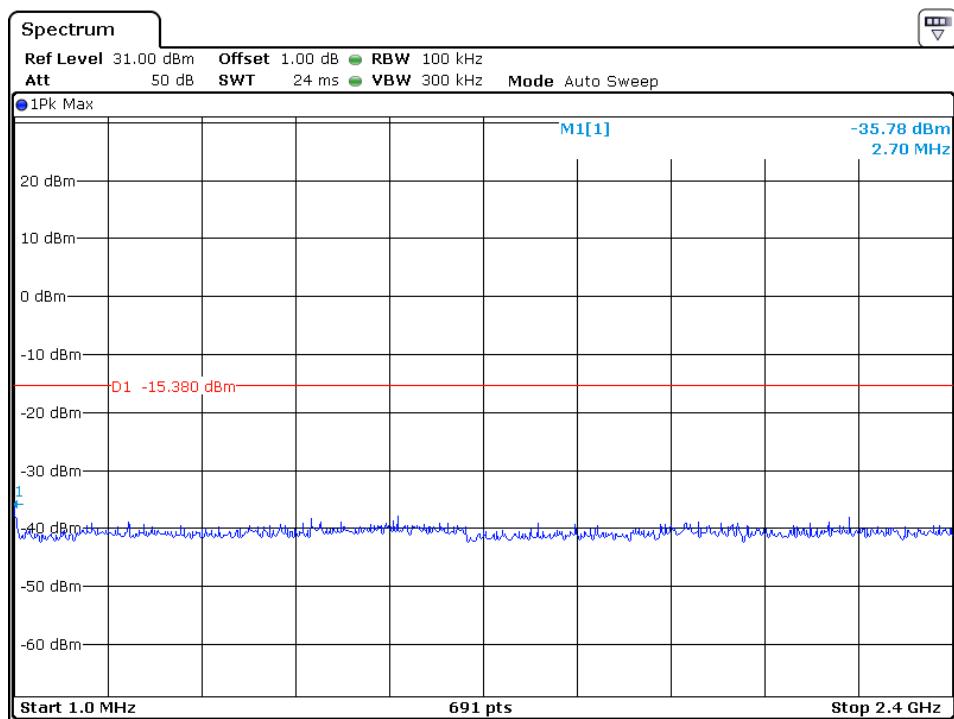


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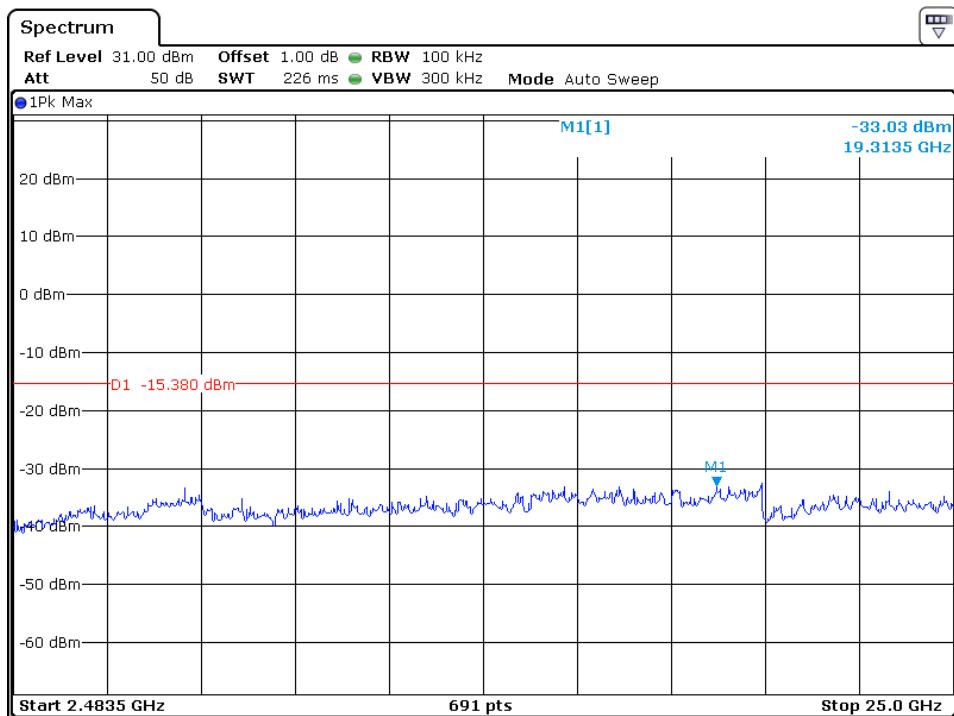
Channel 06 (2437MHz) Reference Level: 4.62dBm



Date: 14 JUL 2020 10:55:07

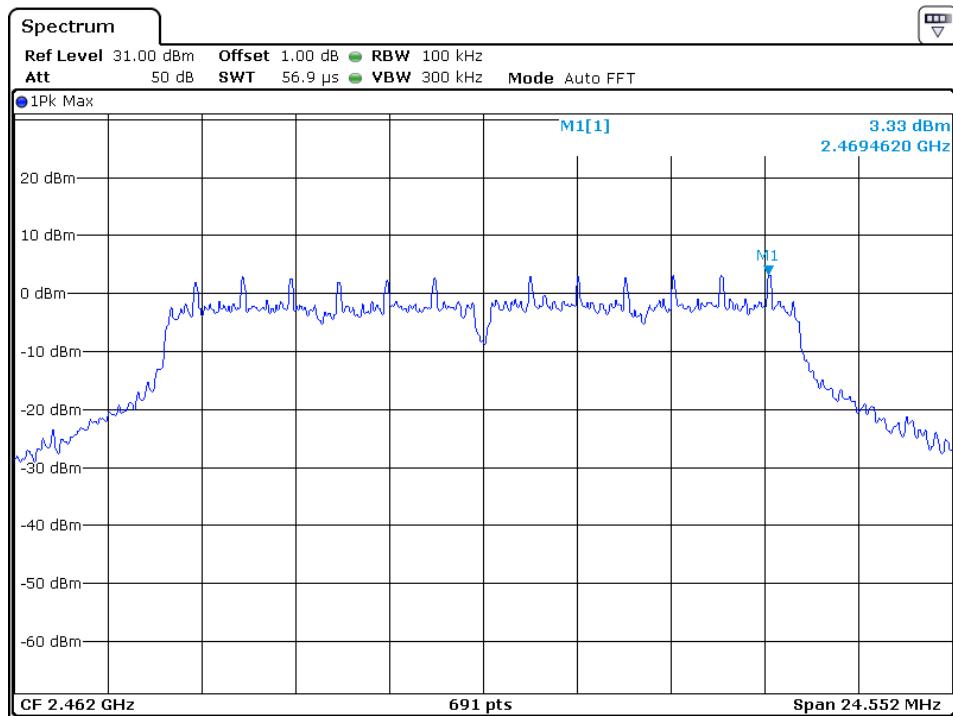


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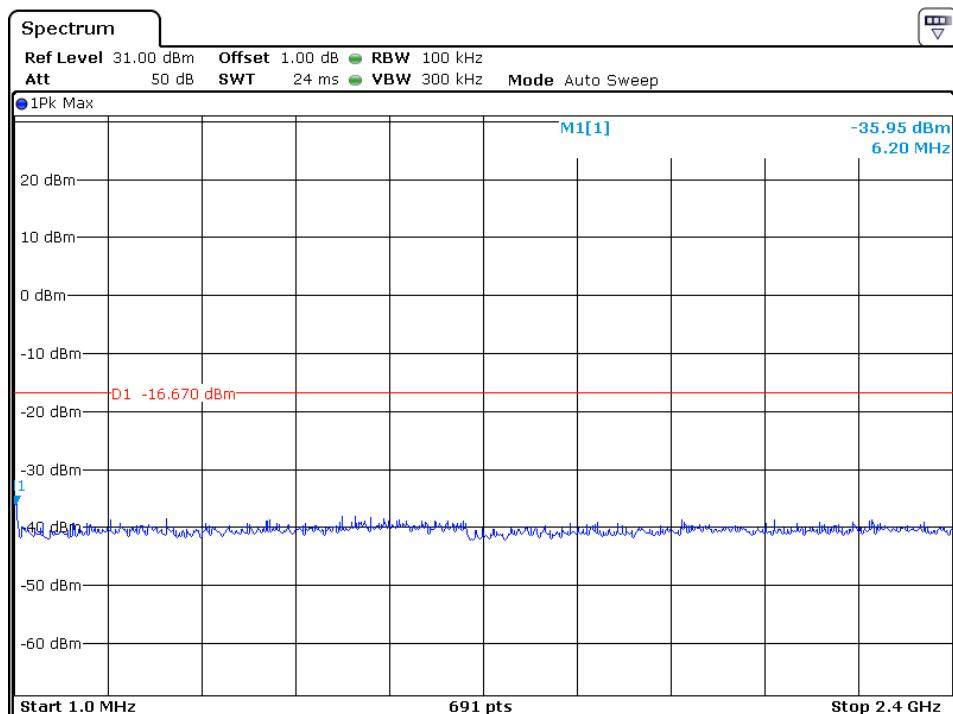


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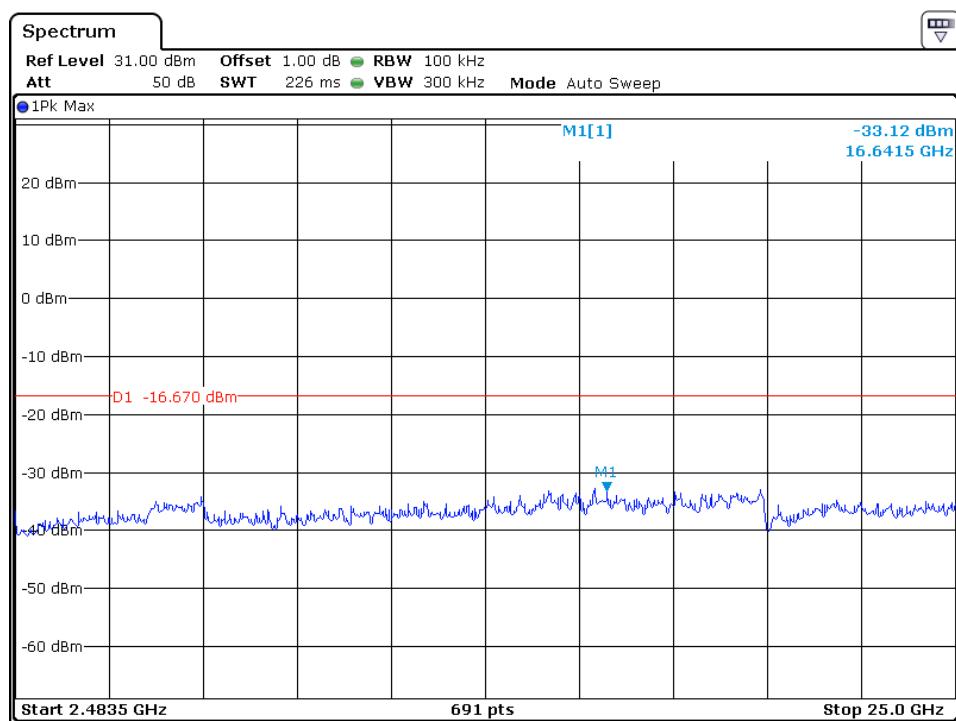
Channel 11 (2462MHz) Reference Level: 3.33dBm



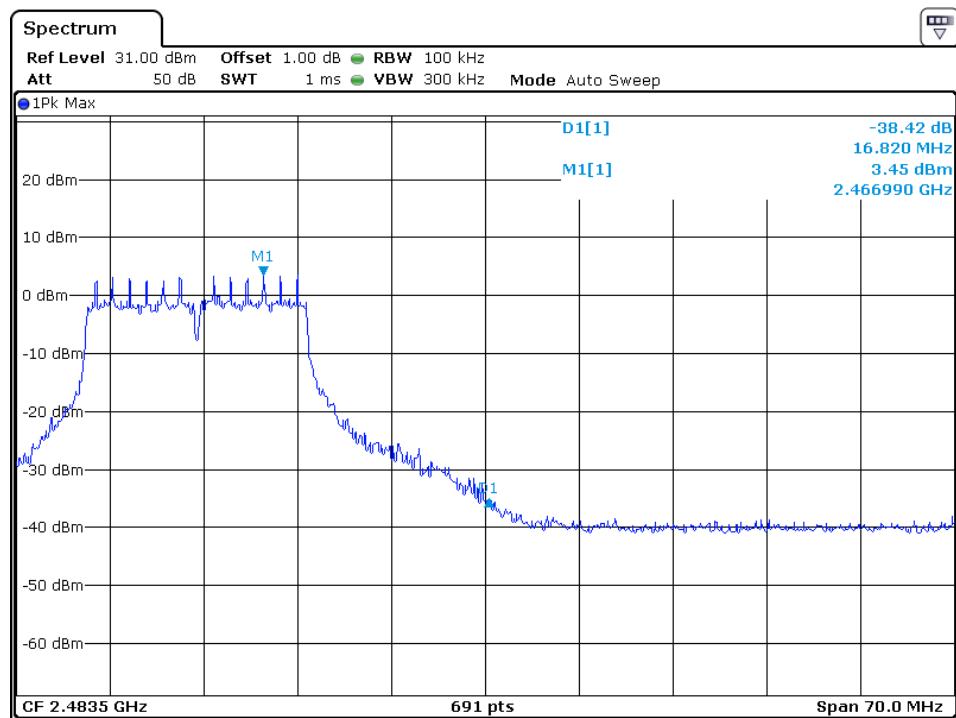
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Date: 14 JUL 2020 11:01:15



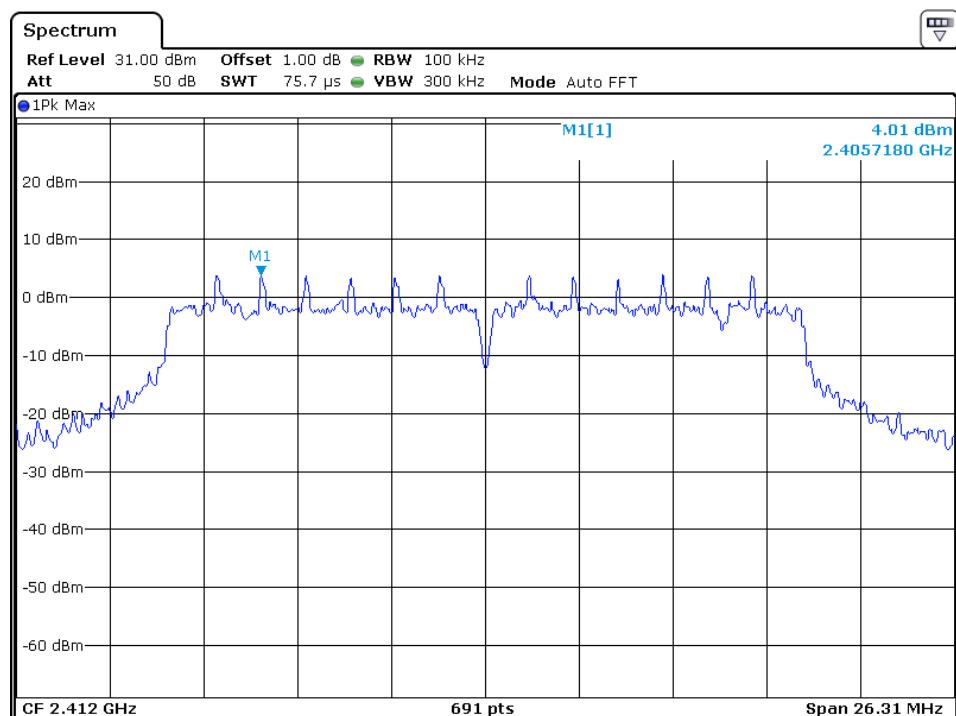
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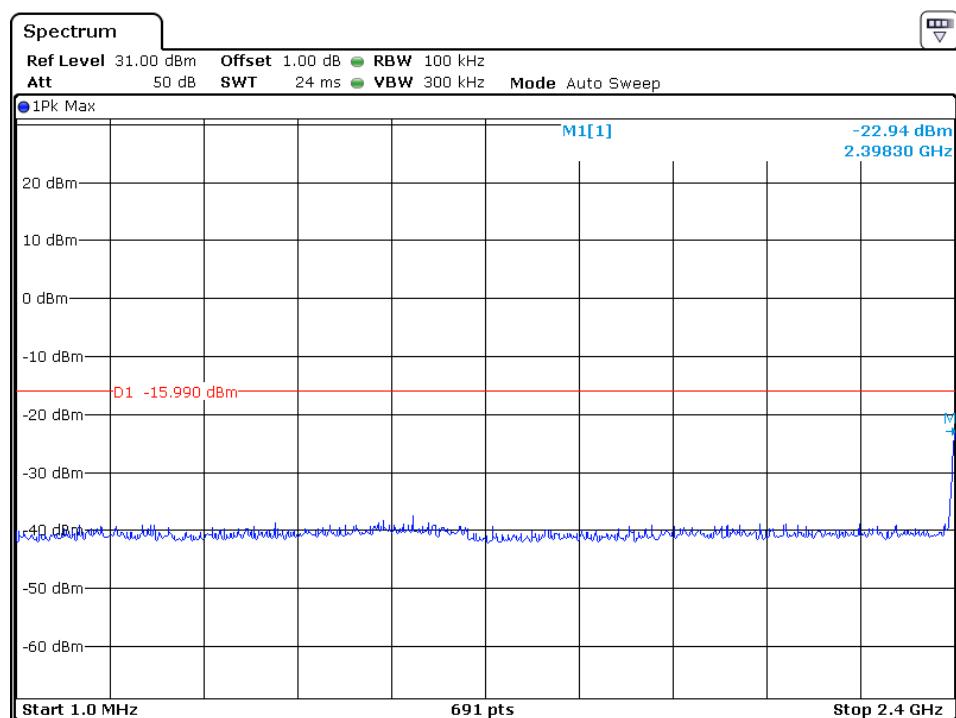
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802.11n-HT20

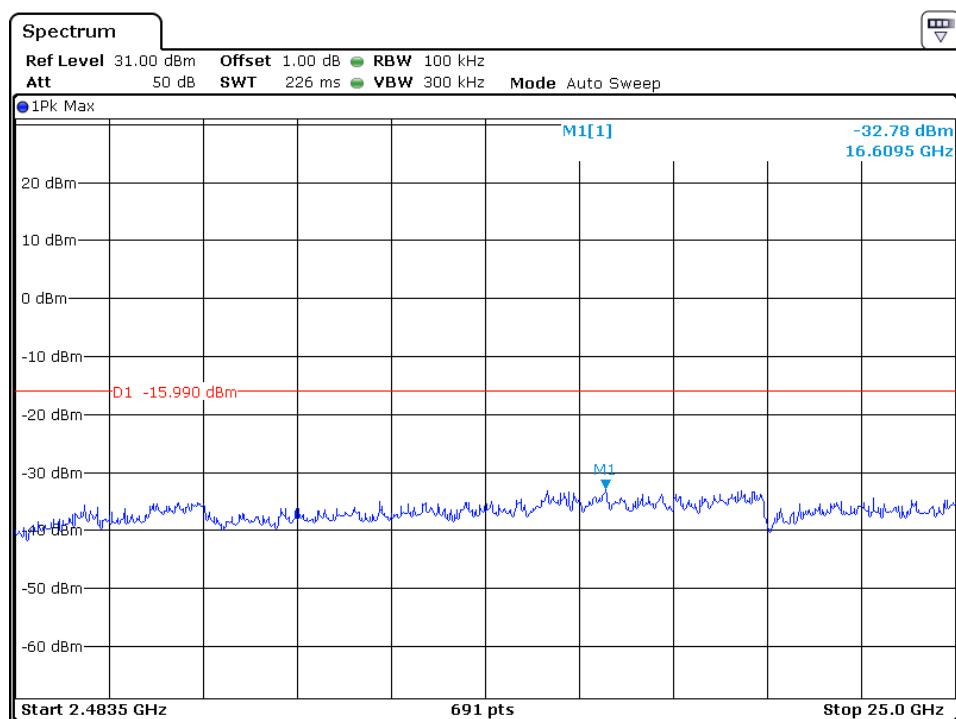
Channel 01 (2412MHz) Reference Level: 4.01dBm



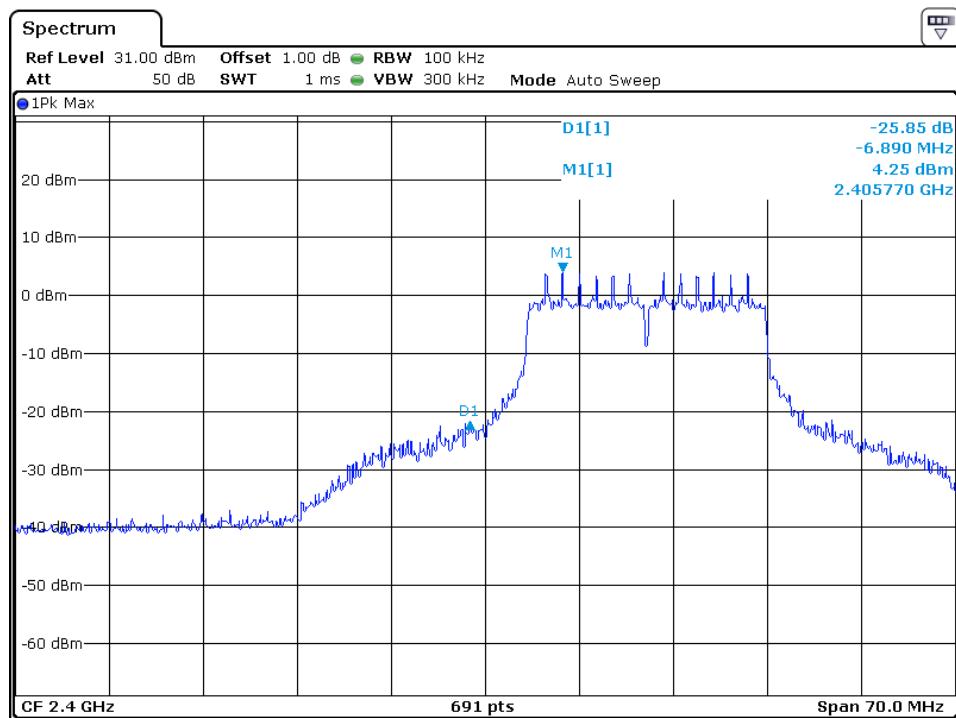
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Date: 14 JUL 2020 11:05:05

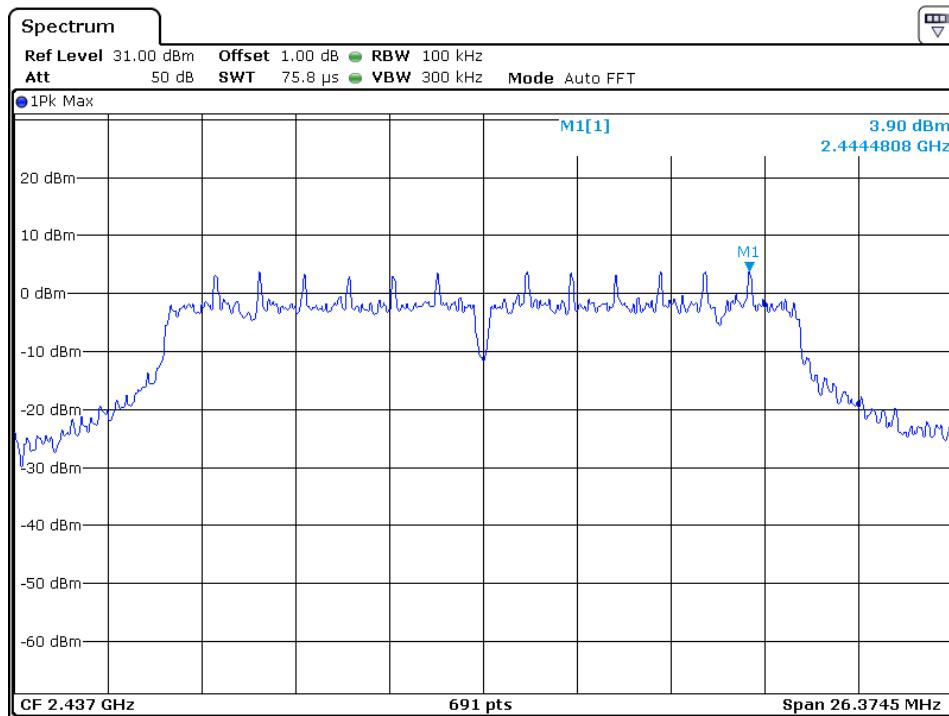


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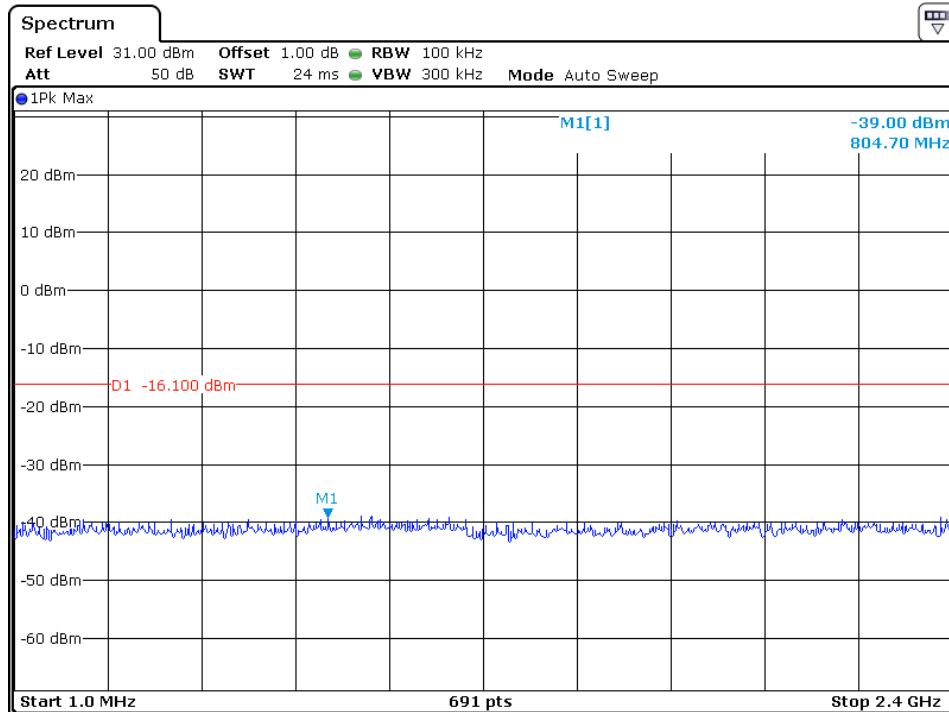


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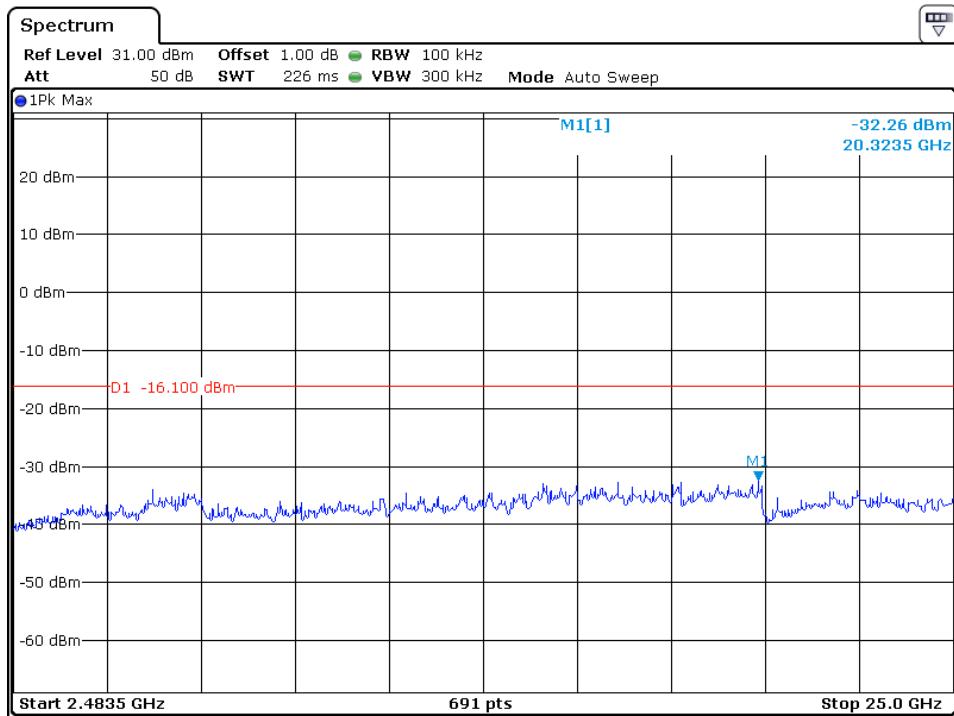
Channel 06 (2437MHz) Reference Level: 3.90dBm



Date: 14 JUL 2020 11:09:53

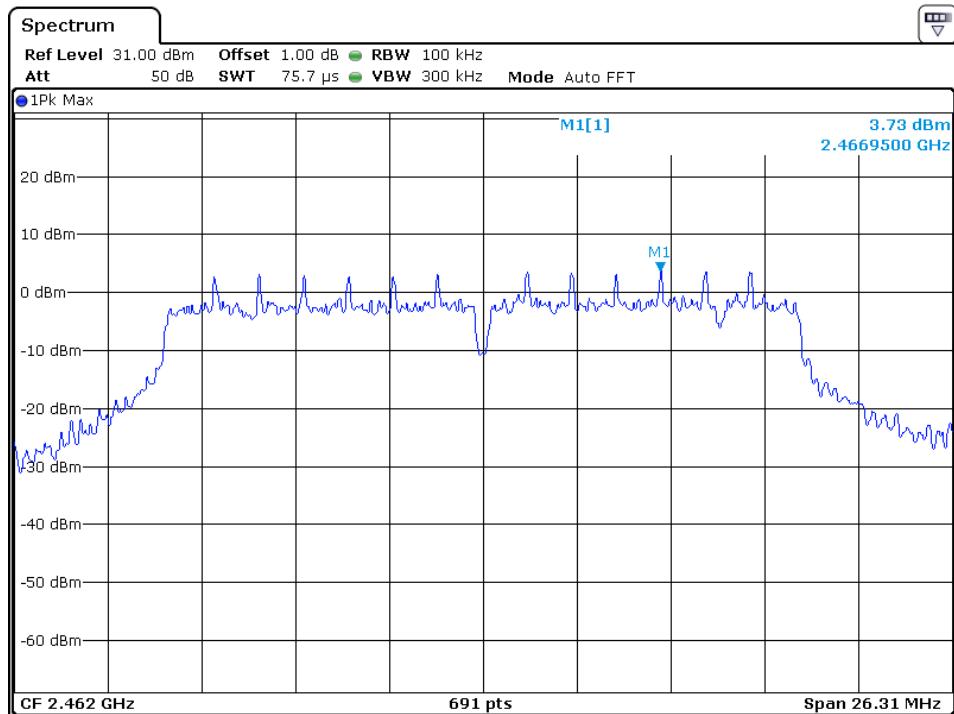


Date: 14 JUL 2020 11:11:00

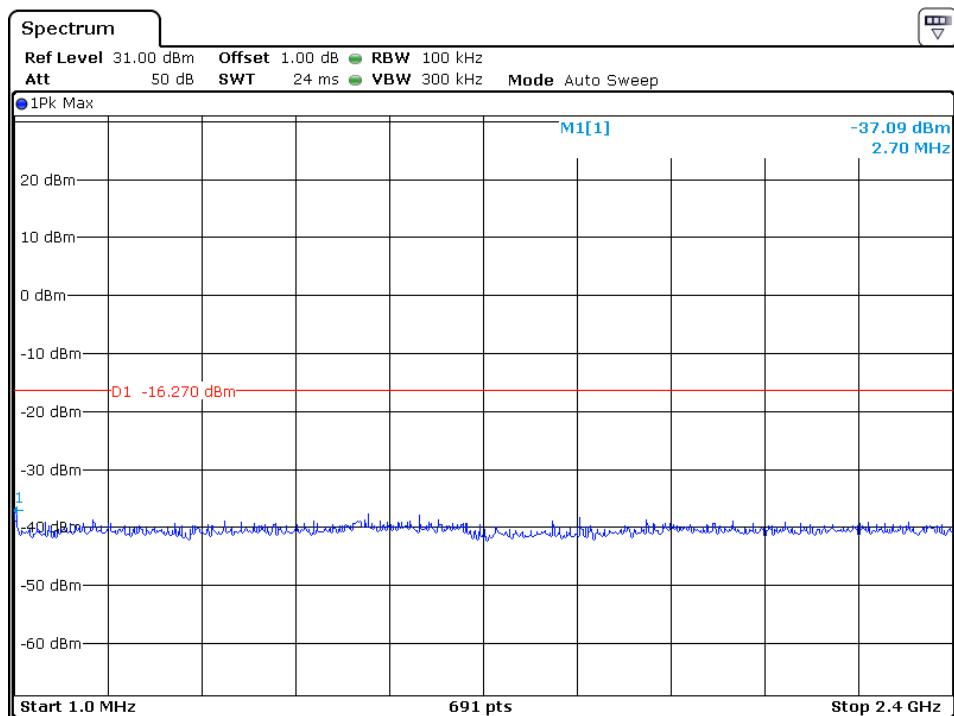


Date: 14 JUL 2020 11:11:18

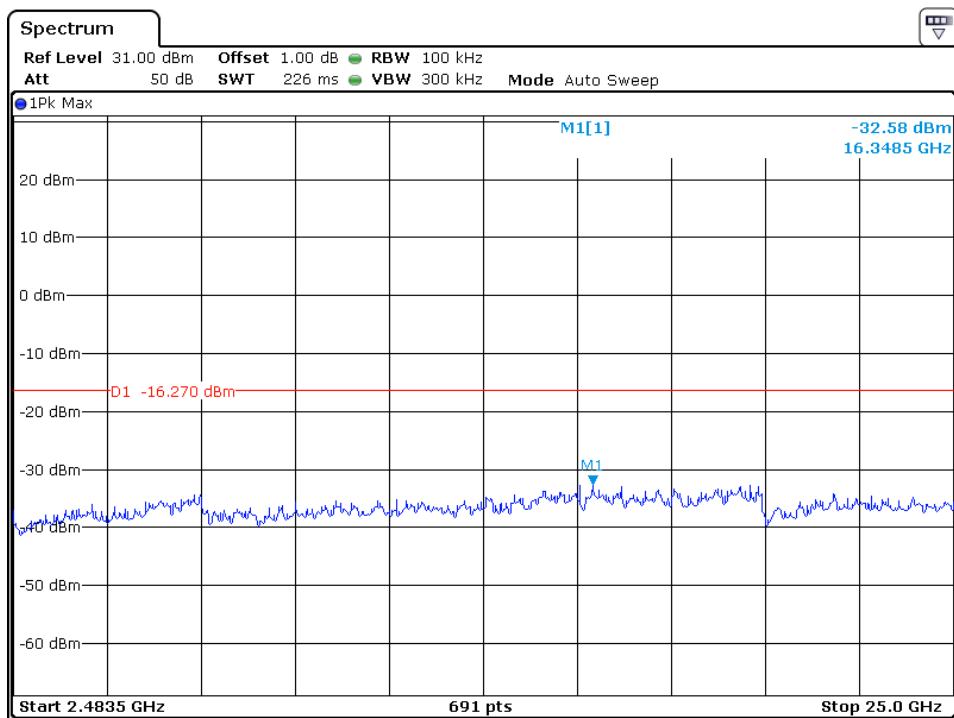
Channel 11 (2462MHz) Reference Level: 3.73dBm



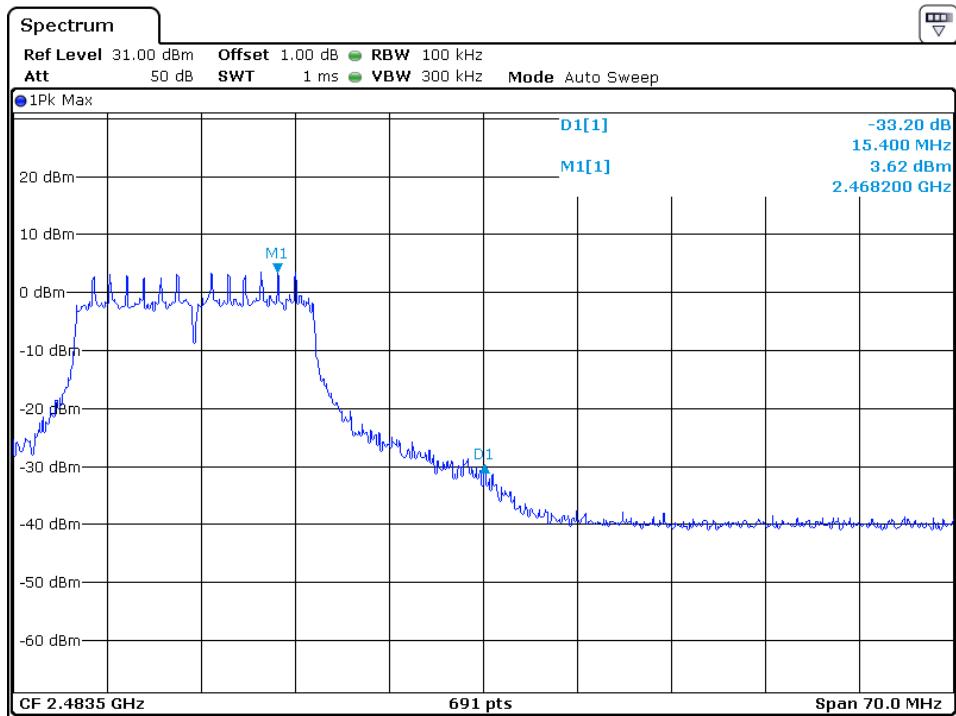
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Date: 14 JUL 2020 11:15:15

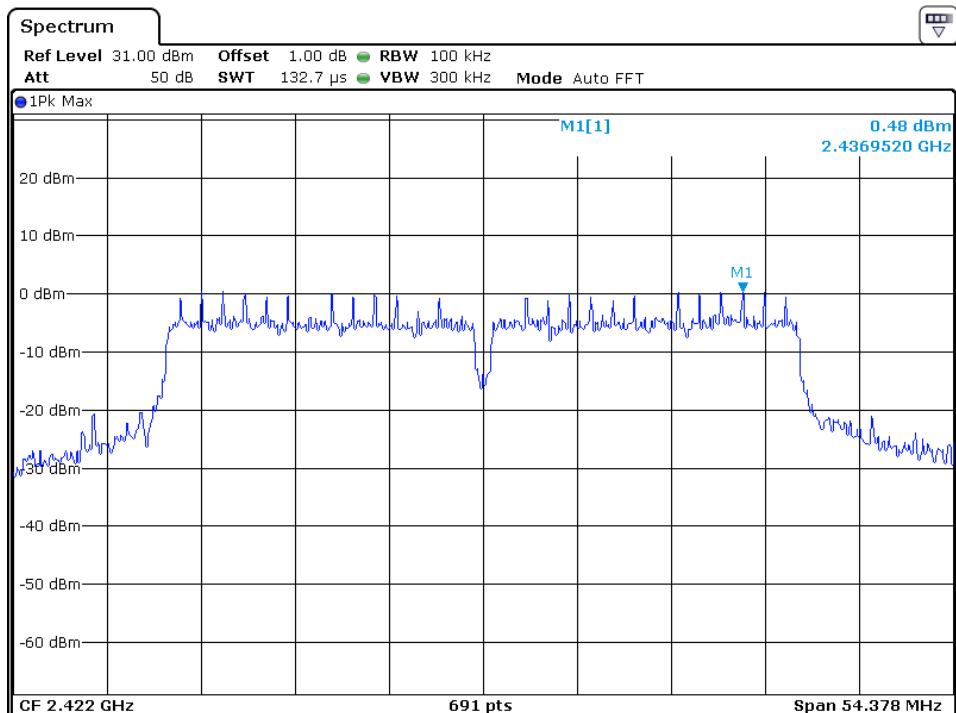


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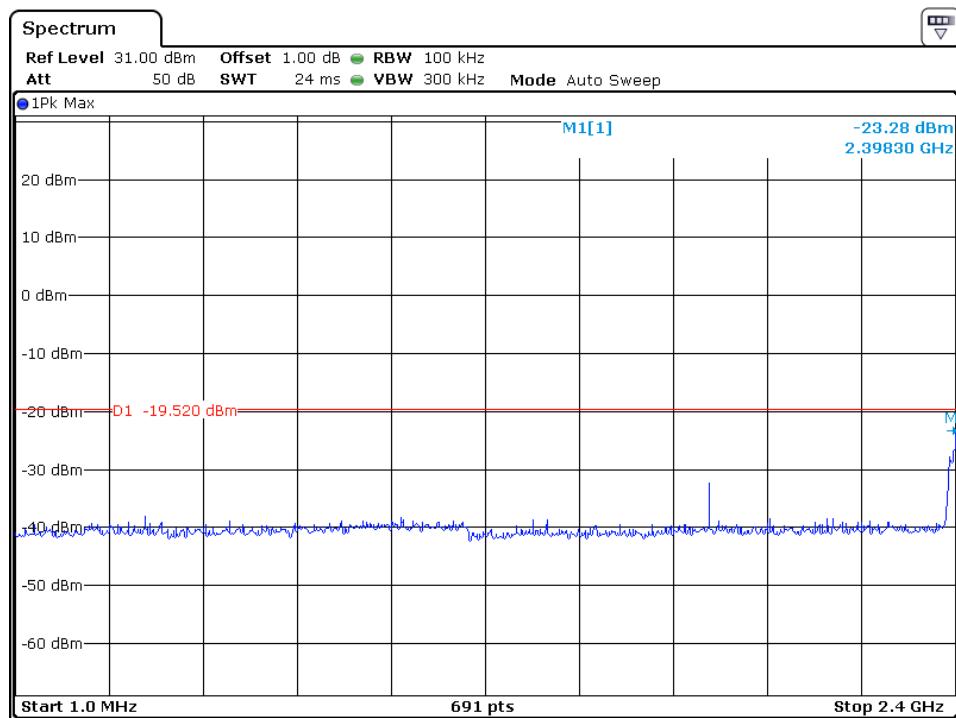


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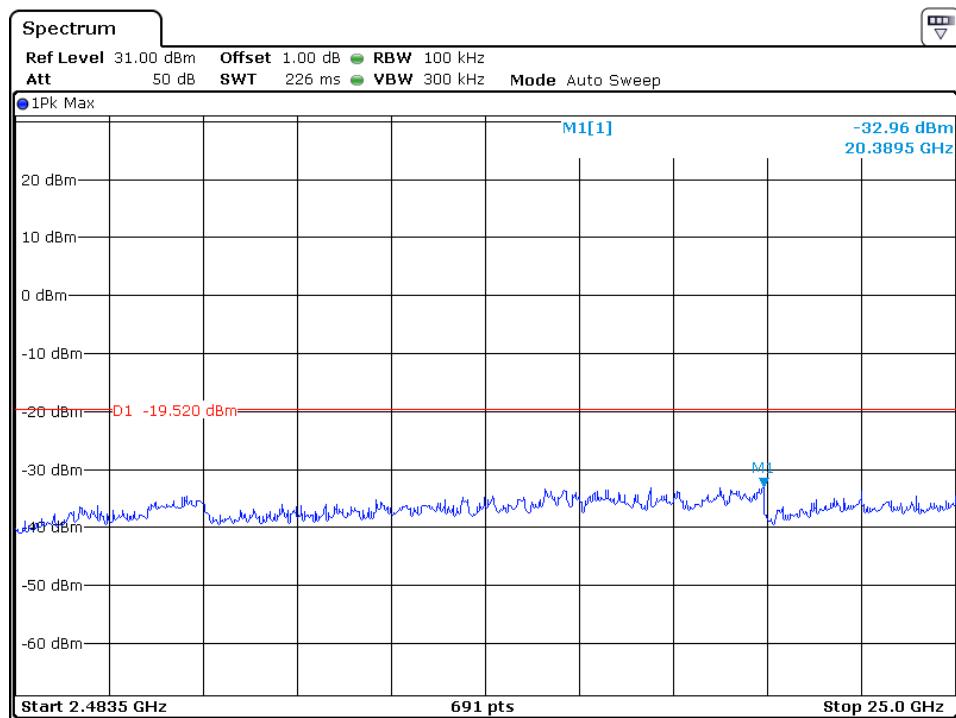
802.11n-HT40
 Channel 01 (2422MHz) Reference Level: 0.48dBm



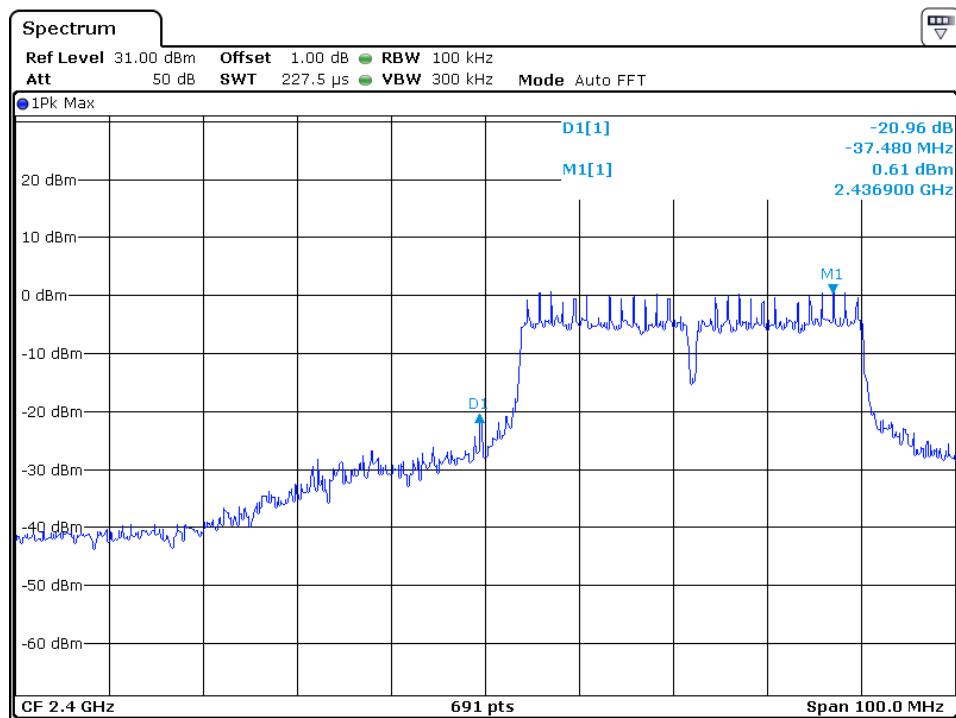
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Date: 14 JUL 2020 13:59:30

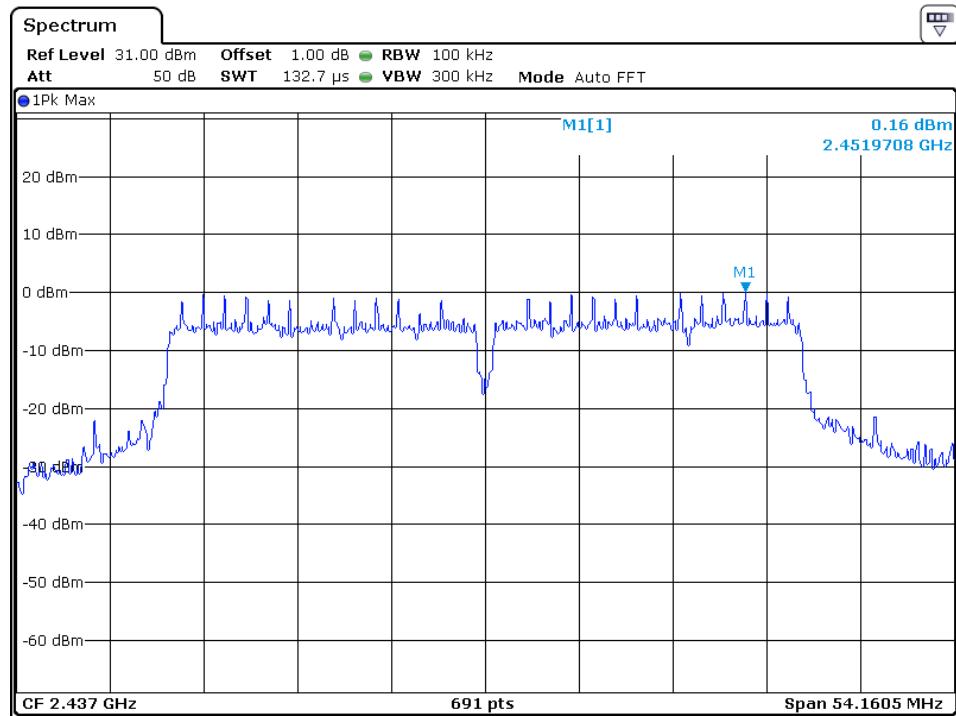


Date: 14 JUL 2020 13:59:49

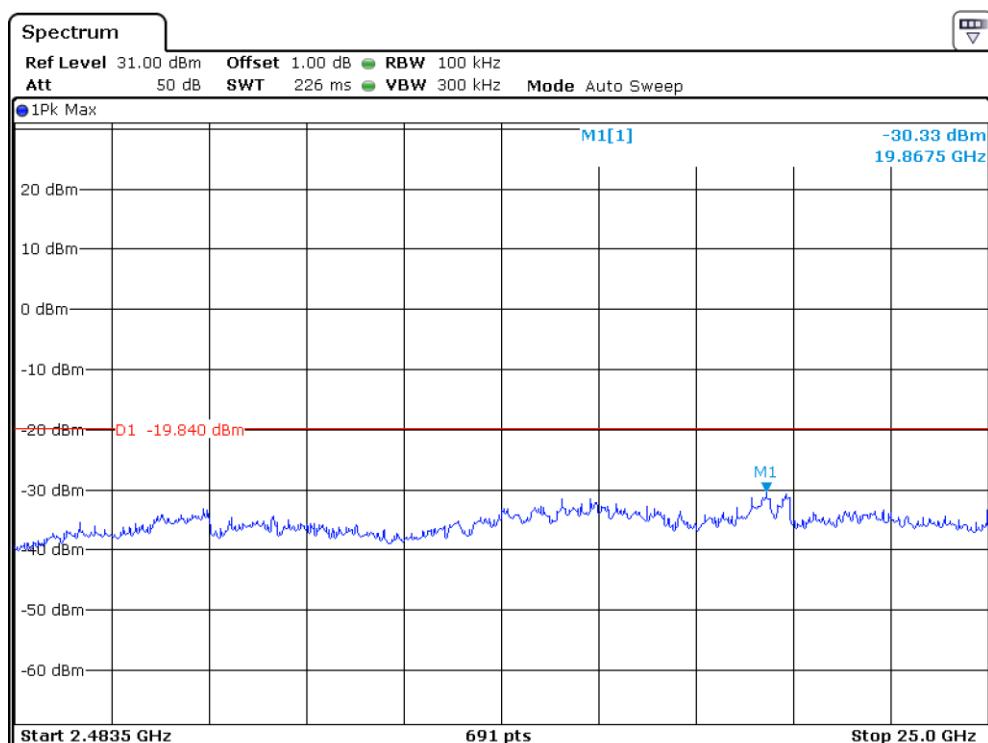
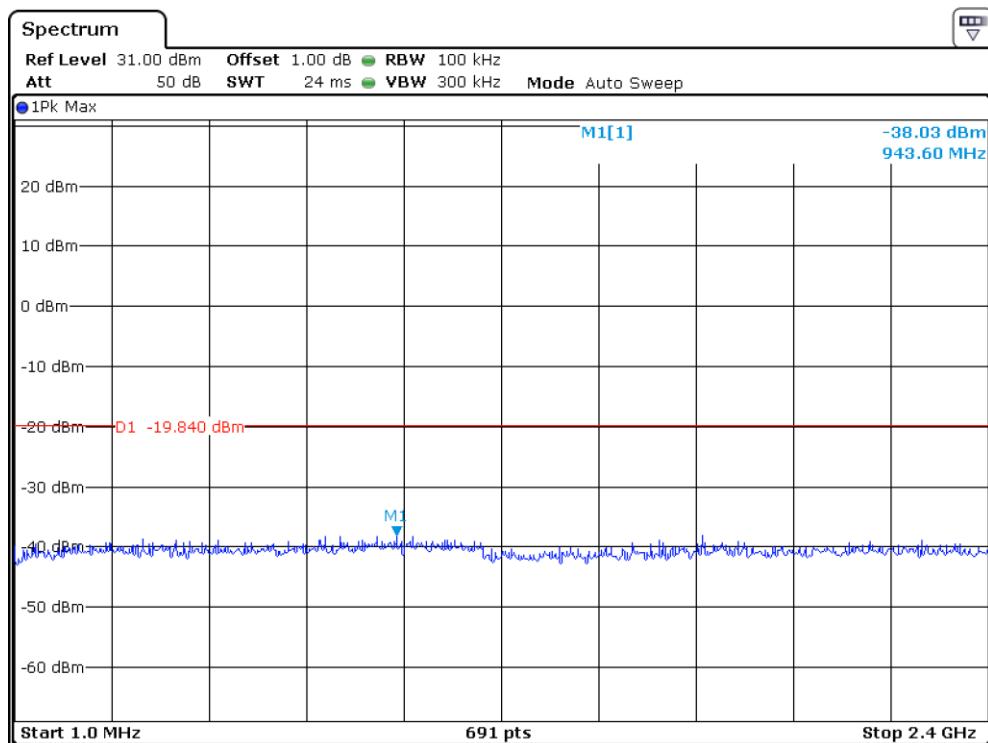


Date: 14 JUL 2020 14:00:57

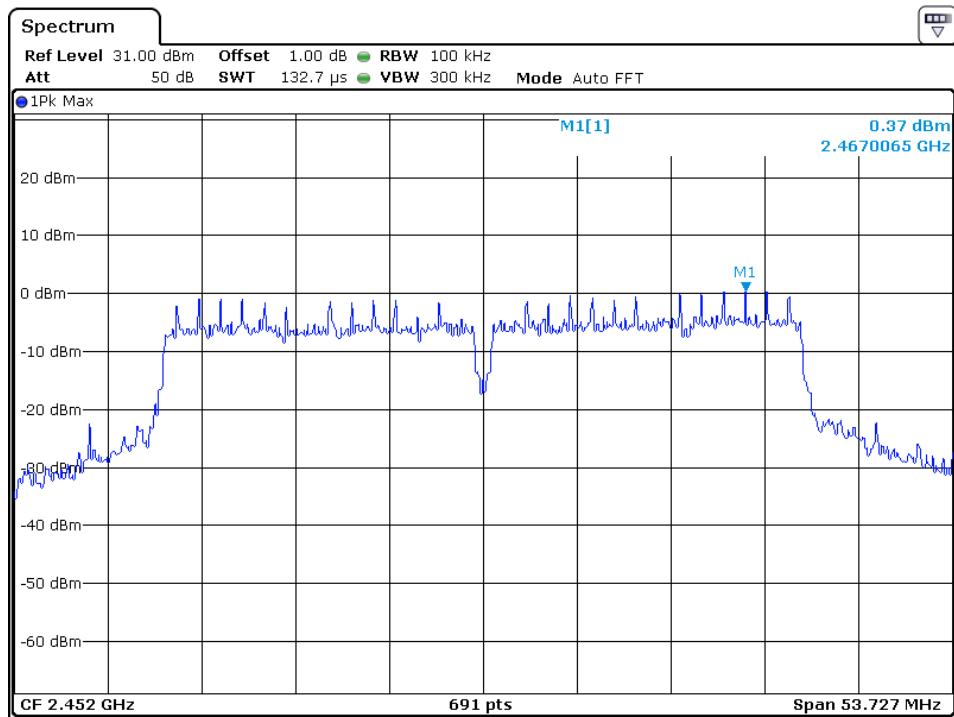
Channel 06 (2437MHz) Reference Level: 0.16dBm



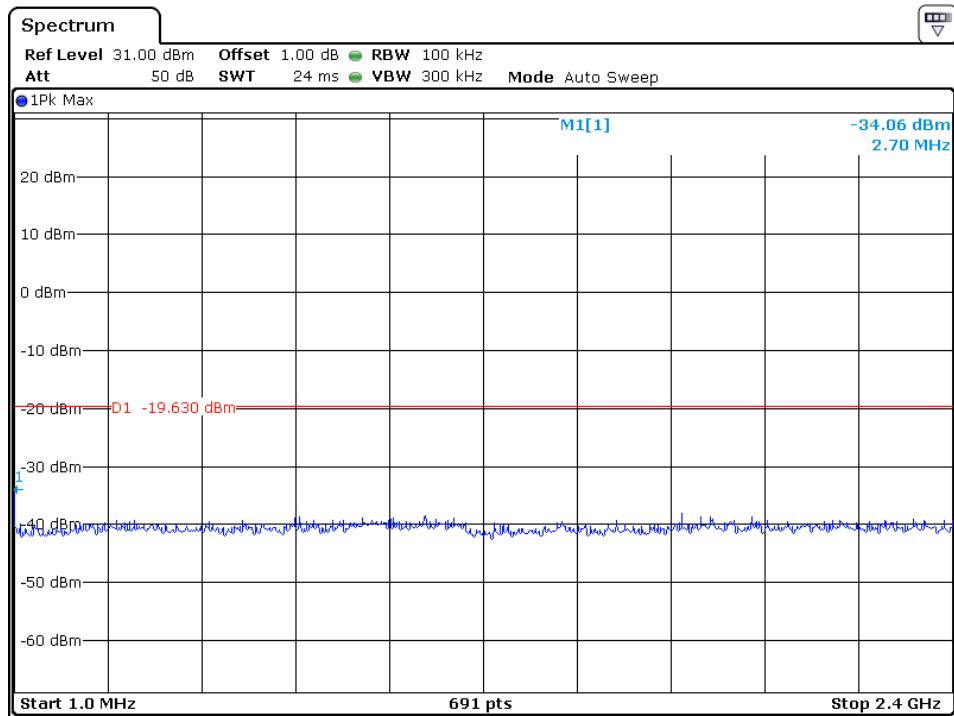
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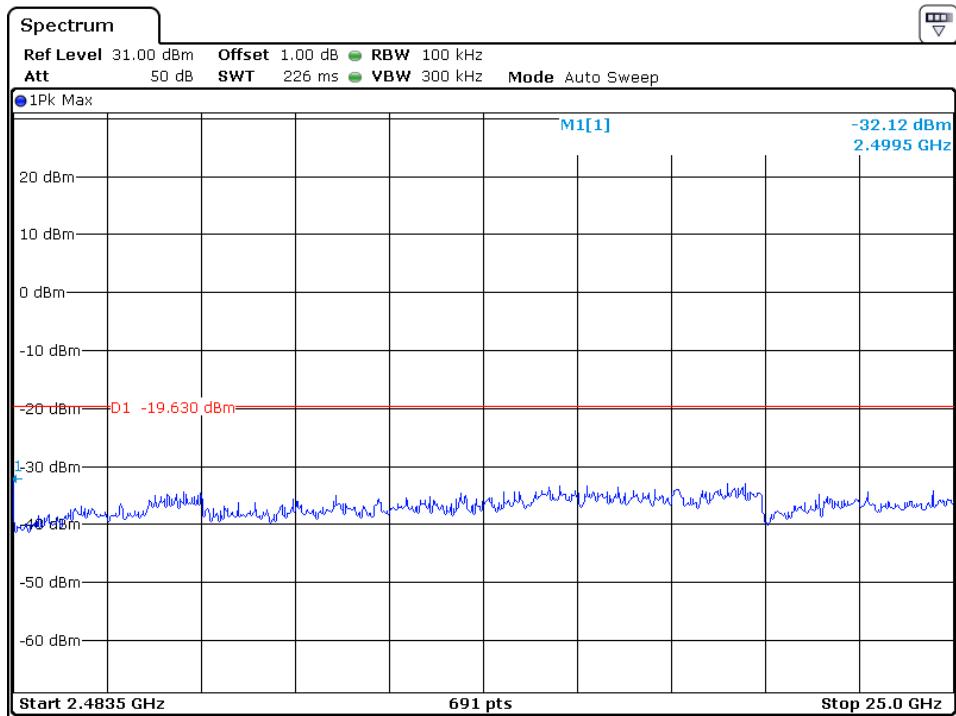
Channel 11 (2452MHz) Reference Level: 0.37dBm



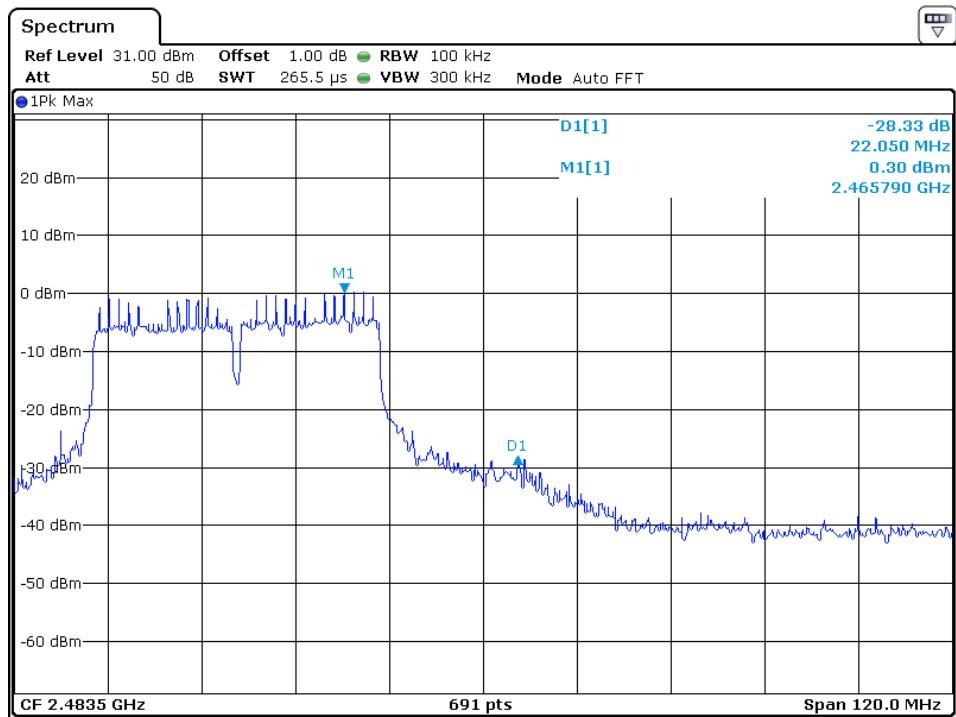
Date: 14 JUL 2020 14:37:19



Date: 14 JUL 2020 14:38:19



Date: 14 JUL 2020 14:38:34



Date: 14 JUL 2020 14:39:09

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

- Not required, since all emissions are more than 20dB below fundamental
- See attached data sheet

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$ RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V}/\text{m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V}/\text{m})/20] = 125.9 \mu\text{V}/\text{m}$$

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Model: MED03

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission (802.11b-Channel 01)
at 32.240MHz
is passed by 5.8dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

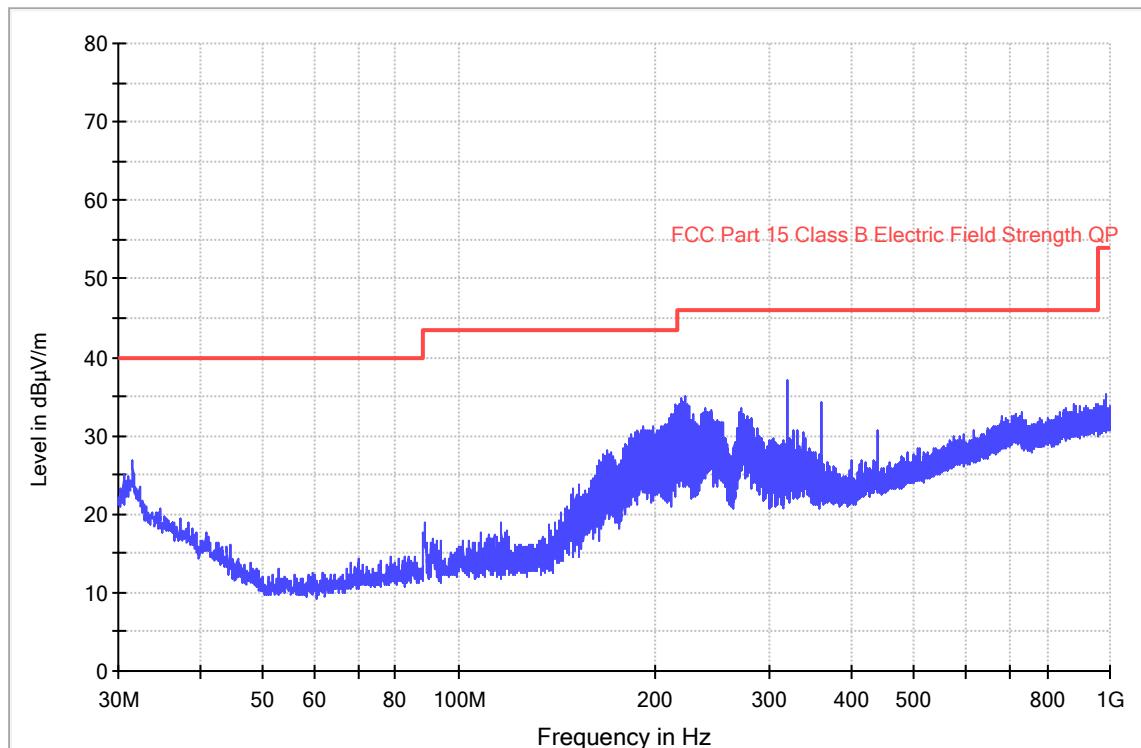
Worst Case Operating Mode:

Model: MED03

Transmitting (802.11b-Channel 01)

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
218.942000	33.3	1000.0	120.000	0.0	H	13.4	12.7	46.0
274.501630	33.9	1000.0	120.000	0.0	H	15.6	12.1	46.0
319.670000	36.1	1000.0	120.000	0.0	H	17.2	9.9	46.0

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line(dB μ V/m) – Level (dB μ V/m)

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

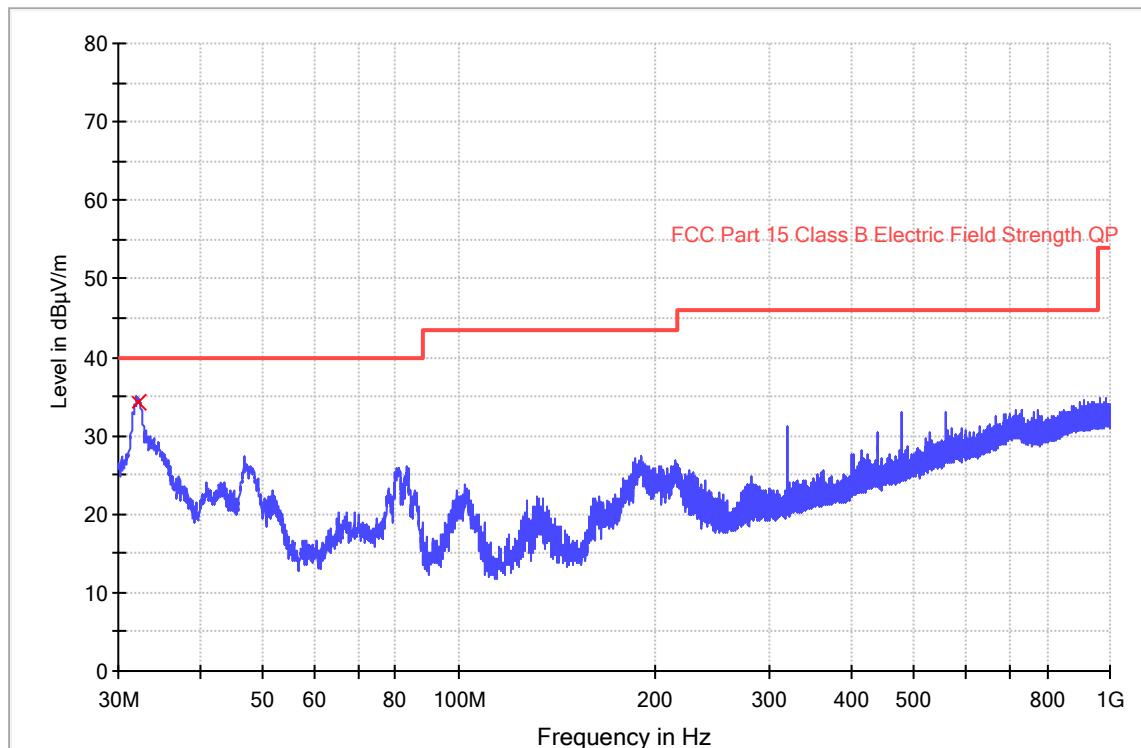
Worst Case Operating Mode:

Model: MED03

Transmitting (802.11b-Channel 01)

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
32.240000	34.2	1000.0	120.000	0.0	V	17.3	5.8	40.0
83.750000	25.1	1000.0	120.000	0.0	V	8.4	14.9	40.0
320.108000	31.4	1000.0	120.000	0.0	V	17.2	14.6	46.0

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line(dB μ V/m) – Level (dB μ V/m)

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	62.6	36.8	33.5	59.3	74.0	-14.7
Vertical	*2390.000	57.5	36.4	29.1	50.2	74.0	-23.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	47.6	36.8	33.5	44.3	54.0	-9.7
Vertical	*2390.000	47.1	36.4	29.1	39.8	54.0	-14.2

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11b-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	63.6	36.7	33.4	60.3	74.0	-13.7
Vertical	*7311.000	50.0	36.6	35.8	49.2	74.0	-24.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	48.7	36.7	33.4	45.4	54.0	-8.6
Vertical	*7311.000	39.9	36.6	35.8	39.1	54.0	-14.9

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	64.5	36.8	33.3	61.0	74.0	-13.0
Vertical	*7386.000	55.7	36.5	29.3	48.5	74.0	-25.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	50.0	36.8	33.3	46.5	54.0	-7.5
Vertical	*7386.000	46.0	36.5	29.3	38.8	54.0	-15.2

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
 - * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11g-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	57.4	36.8	33.5	54.1	74.0	-19.9
Vertical	*2390.000	57.0	36.4	29.1	49.7	74.0	-24.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	42.9	36.8	33.5	39.6	54.0	-14.4
Vertical	*2390.000	43.2	36.4	29.1	35.9	54.0	-18.1

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11g-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	58.9	36.7	33.4	55.6	74.0	-18.4
Vertical	*7311.000	50.8	36.6	35.8	50.0	74.0	-24.0

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	44.7	36.7	33.4	41.4	54.0	-12.6
Vertical	*7311.000	39.3	36.6	35.8	38.5	54.0	-15.5

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11g-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	57.6	36.8	33.3	54.1	74.0	-19.9
Vertical	*7386.000	57.6	36.5	29.3	50.4	74.0	-23.6

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	43.8	36.8	33.3	40.3	54.0	-13.7
Vertical	*7386.000	47.7	36.5	29.3	40.5	54.0	-13.5

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
 - * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n20-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	56.4	36.8	33.5	53.1	74.0	-20.9
Vertical	*2390.000	57.0	36.4	29.1	49.7	74.0	-24.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4824.000	42.0	36.8	33.5	38.7	54.0	-15.3
Vertical	*2390.000	45.5	36.4	29.1	38.2	54.0	-15.8

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n20-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	59.4	36.7	33.4	56.1	74.0	-17.9
Vertical	*7311.000	52.7	36.6	35.8	51.9	74.0	-22.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	43.9	36.7	33.4	40.6	54.0	-13.4
Vertical	*7311.000	42.0	36.6	35.8	41.2	54.0	-12.8

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n20-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	58.9	36.8	33.3	55.4	74.0	-18.6
Vertical	*7386.000	59.5	36.5	29.3	52.3	74.0	-21.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4924.000	44.0	36.8	33.3	40.5	54.0	-13.5
Vertical	*7386.000	46.9	36.5	29.3	39.7	54.0	-14.3

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
 - * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n40-Channel 03)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4844.000	54.0	36.8	33.5	50.7	74.0	-23.3
Vertical	*2390.000	55.5	36.4	29.1	48.2	74.0	-25.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4844.000	39.8	36.8	33.5	36.5	54.0	-17.5
Vertical	*2390.000	43.2	36.4	29.1	35.9	54.0	-18.1

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n40-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	64.0	36.7	33.4	60.7	74.0	-13.3
Vertical	*7311.000	55.1	36.6	35.8	54.3	74.0	-19.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4874.000	44.1	36.7	33.4	40.8	54.0	-13.2
Vertical	*7311.000	36.3	36.6	35.8	35.5	54.0	-18.5

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 14, 2020

Worst Case Operating Mode:

Model: MED03

Transmitting (802.11n40-Channel 09)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4904.000	57.6	36.8	33.3	54.1	74.0	-19.9
Vertical	*7356.000	58.7	36.5	29.3	51.5	74.0	-22.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*4904.000	43.9	36.8	33.3	40.4	54.0	-13.6
Vertical	*7356.000	43.5	36.5	29.3	36.3	54.0	-17.7

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
 - * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Xigang Technologies Ltd.

Date of Test: July 31, 2020

Model: MED03

4.9 Conducted Emission

Worst Case Conducted Emission (802.11b-Channel 01)
at 0.294MHz
is passed by 22.0dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

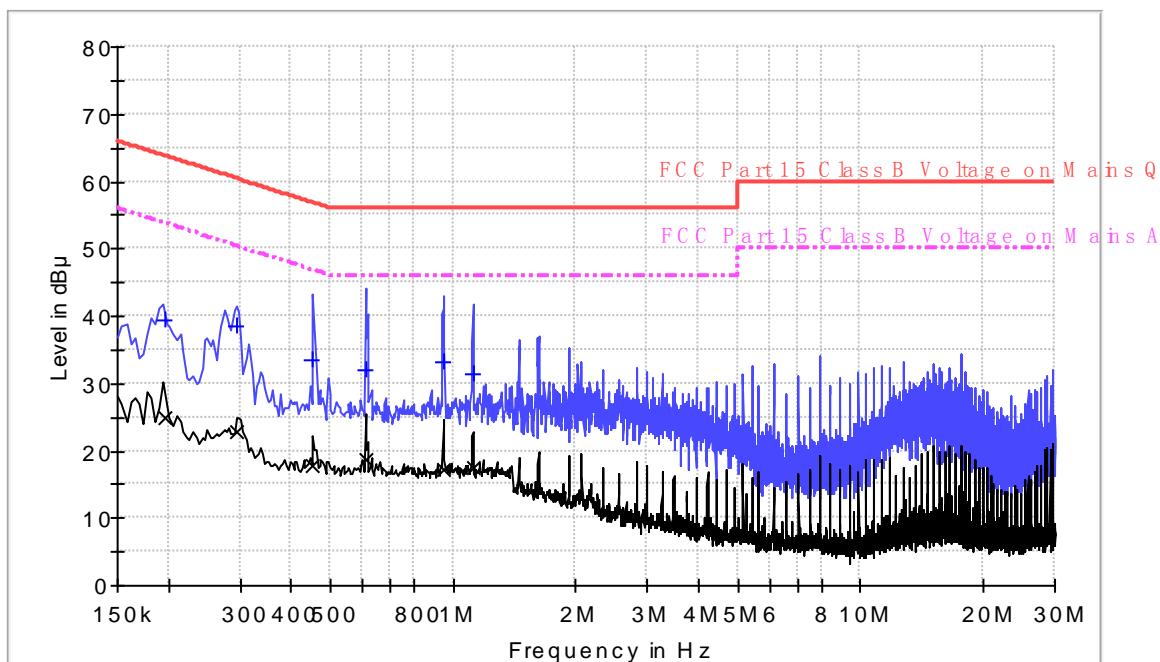
Applicant: Xigang Technologies Ltd.

Date of Test: July 31, 2020

Model: MED03

Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Phase: Live

Graphic / Data Table**Conducted Emissions
Pursuant to FCC 15.207: Emissions Requirement****Limit and Margin QP**

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.194000	38.3	9.000	L1	9.7	25.6	63.9
0.294000	38.4	9.000	L1	9.7	22.0	60.4
0.454000	23.5	9.000	L1	9.7	33.3	56.8
0.610000	30.1	9.000	L1	9.7	25.9	56.0
0.950000	24.2	9.000	L1	9.7	31.8	56.0
1.118000	23.5	9.000	L1	9.7	32.5	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.194000	22.9	9.000	L1	9.7	31.0	53.9
0.294000	21.9	9.000	L1	9.7	28.5	50.4
0.454000	15.7	9.000	L1	9.7	31.1	46.8
0.610000	17.8	9.000	L1	9.7	28.2	46.0
0.950000	16.1	9.000	L1	9.7	29.9	46.0
1.118000	15.0	9.000	L1	9.7	31.0	46.0

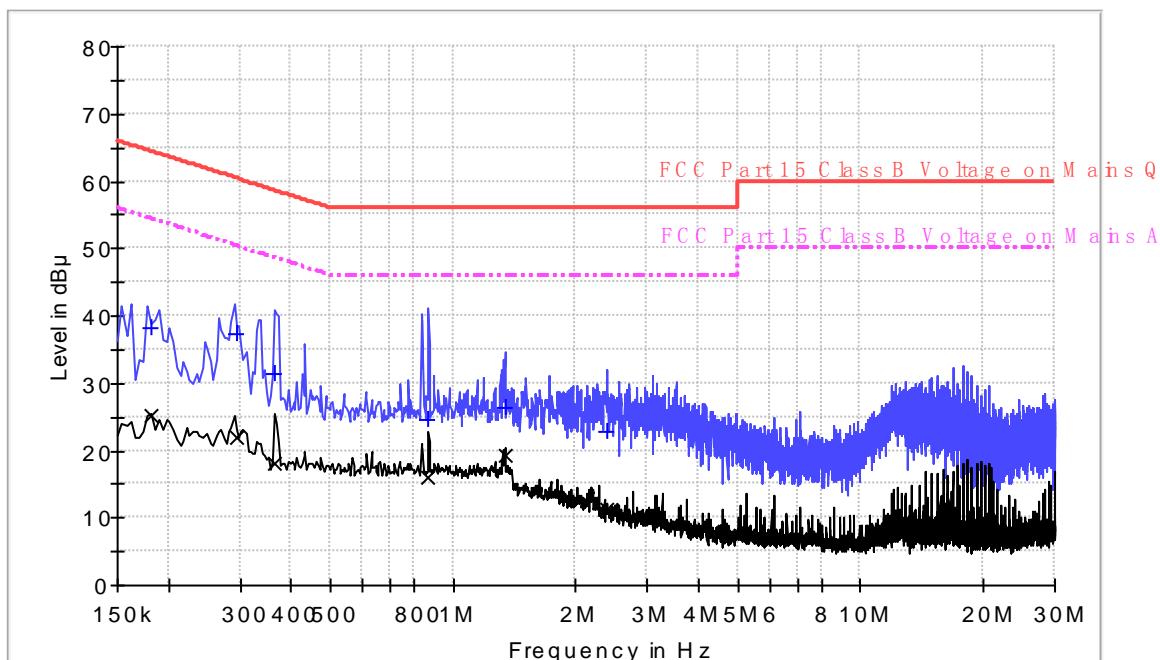
Applicant: Xigang Technologies Ltd.

Date of Test: July 31, 2020

Model: MED03

Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Phase: Neutral

Graphic / Data Table**Conducted Emissions
Pursuant to FCC 15.207: Emissions Requirement****Limit and Margin QP**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.178000	36.1	9.000	N	9.7	28.5	64.6
0.290000	36.3	9.000	N	9.7	24.2	60.5
0.366000	29.4	9.000	N	9.7	29.2	58.6
0.870000	24.5	9.000	N	9.7	31.5	56.0
1.338000	26.3	9.000	N	9.7	29.7	56.0
2.390000	22.8	9.000	N	9.8	33.2	56.0

Limit and Margin AV

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.178000	21.1	9.000	N	9.7	33.5	54.6
0.290000	21.0	9.000	N	9.7	29.5	50.5
0.366000	17.0	9.000	N	9.7	31.6	48.6
0.870000	15.9	9.000	N	9.7	30.1	46.0
1.338000	16.4	9.000	N	9.7	29.6	46.0
2.390000	11.2	9.000	N	9.8	34.8	46.0

Applicant: Xigang Technologies Ltd.

Date of Test: July 31, 2020

Model: MED03

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- [] Not required - No digital part
- [] Test results are attached
- [x] Included in the separated report.

Applicant: Xigang Technologies Ltd.

Date of Test: July 31, 2020

Model: MED03

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	27-May-2020	27-May-2021
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	27-May-2020	27-May-2021
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	14-Sep-2018	14-Sep-2020
SZ185-01	EMI Receiver	R&S	ESCI	100547	24-Dec-2019	24-Dec-2020
SZ061-08	Horn Antenna	ETS	3115	00092346	07-Sep-2019	07-Sep-2021
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	24-May-2019	24-May-2021
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	27-May-2020	27-May-2021
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	27-May-2020	27-May-2021
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	27-May-2020	27-May-2021
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Dec-2018	15-Dec-2020
SZ062-02	RF Cable	RADIALL	RG 213U	--	12-Jun-2020	12-Dec-2020
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	26-Feb-2020	26-Aug-2020
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	26-Feb-2020	26-Aug-2020
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	27-May-2020	27-May-2021
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	29-Oct-2019	29-Oct-2020
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	29-Oct-2019	29-Oct-2020
SZ188-03	Shielding Room	ETS	RFD-100	4100	07-Jan-2020	07-Jan-2022
SZ062-16	RF Cable	HUBER+SUHN-ER	CBL2-BN-1m	--	30-Oct-2019	30-Oct-2020

***** End of Report*****