



# FCC RADIO TEST REPORT

**FCC ID** : A4R-H2E  
**Equipment** : Interactive Internet streaming device  
**Model Name** : H2E  
**Applicant** : Google LLC  
1600 Amphitheatre Parkway,  
Mountain View, California, 94043 USA  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Jun. 06, 2019 and testing was started from Jul. 05, 2019 and completed on Sep. 11, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



## Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
<b>1 General Description .....</b>	<b>5</b>
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	6
1.3 Modification of EUT .....	6
1.4 Testing Location .....	7
1.5 Applicable Standards.....	7
<b>2 Test Configuration of Equipment Under Test .....</b>	<b>8</b>
2.1 Carrier Frequency and Channel .....	8
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system .....	10
2.5 EUT Operation Test Setup .....	10
2.6 Measurement Results Explanation Example.....	10
<b>3 Test Result .....</b>	<b>11</b>
3.1 6dB and 99% Bandwidth Measurement .....	11
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement .....	14
3.4 Conducted Band Edges and Spurious Emission Measurement .....	16
3.5 Radiated Band Edges and Spurious Emission Measurement .....	63
3.6 AC Conducted Emission Measurement.....	67
3.7 Antenna Requirements.....	69
<b>4 List of Measuring Equipment.....</b>	<b>70</b>
<b>5 Uncertainty of Evaluation.....</b>	<b>72</b>
<b>Appendix A. Conducted Test Results</b>	
<b>Appendix B. AC Conducted Emission Test Result</b>	
<b>Appendix C. Radiated Spurious Emission</b>	
<b>Appendix D. Radiated Spurious Emission Plots</b>	
<b>Appendix E. Duty Cycle Plots</b>	



### History of this test report

Report No.	Version	Description	Issued Date
FR960638C	01	Initial issue of report	Sep. 03, 2019
FR960638C	02	Update EUT information and test data.	Sep. 12, 2019
FR960638C	03	Revising the test description	Sep. 16, 2019
FR960638C	04	Revise the description of EUT supported radio to 802.15.4.	Sep. 20, 2019



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 1.50 dB at 2389.100 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 10.52 dB at 0.609 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang****Report Producer: Ann Lee**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Interactive Internet streaming device
Model Name	H2E
FCC ID	A4R-H2E
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE 802.15.4
HW version	EVT 1.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
No.	S/N
#1	96180EXBSZZ2Y2
#2	96190EXBSZZ2SU
#3	96190EXBSZZ2RI

## 1.2 Product Specification of Equipment Under Test

Standards-related Product Specification							
<b>Tx/Rx Channel Frequency Range</b>	2412 MHz ~ 2462 MHz						
<b>Maximum (Average) Output Power to antenna</b>	<b>&lt;MIMO Ant. 1 + 2&gt;</b> 802.11b : 26.92 dBm (0.4920 W) 802.11g : 26.45 dBm (0.4416 W) 802.11n HT20 : 26.22 dBm (0.4188 W) 802.11n HT40 : 16.97 dBm (0.0498 W) 802.11ac VHT20 : 26.12 dBm(0.4093 W) 802.11ac VHT40 : 16.87 dBm(0.0486 W)						
<b>99% Occupied Bandwidth</b>	<b>&lt;MIMO Ant. 1&gt;</b> 802.11b : 13.14MHz 802.11g : 16.58MHz 802.11n HT20 : 17.63MHz 802.11n HT40 : 36.66MHz <b>&lt;MIMO Ant. 2&gt;</b> 802.11b : 13.19MHz 802.11g : 16.53MHz 802.11n HT20 : 17.68MHz 802.11n HT40 : 36.56MHz						
<b>Antenna Type / Gain</b>	<Ant. 1> PIFA Antenna with gain 1.50 dBi <Ant. 2> PIFA Antenna with gain 2.39 dBi						
<b>Type of Modulation</b>	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)						
<b>Antenna Function Description</b>	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 b/g/n/ac MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 b/g/n/ac MIMO	V	V
	Ant. 1	Ant. 2					
802.11 b/g/n/ac MIMO	V	V					

**Note:** MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

## 1.3 Modification of EUT

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



### 1.4 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		
	TH05-HY	CO05-HY	03CH07-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

### 1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

### 2.2 Test Mode

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

#### MIMO Mode

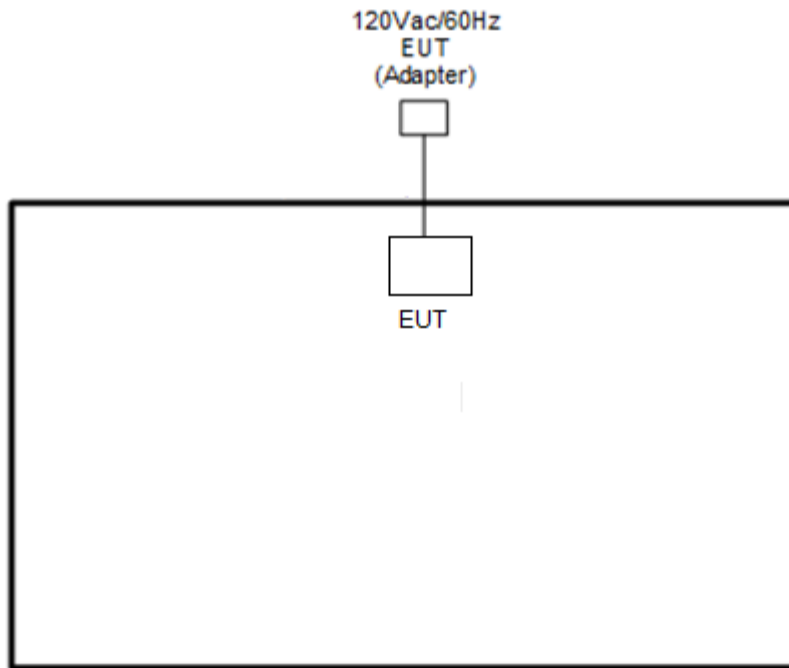
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) TX + WLAN (5GHz) TX + AC Adapter

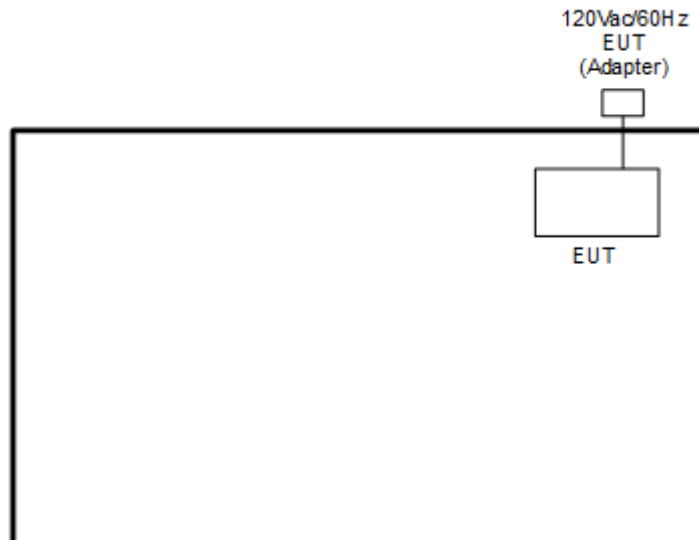


## 2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Spectrum Analyzer	Agilent	N9030A	N/A	N/A	Unshielded, 1.8m

## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT4\_ 4.0.00064” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
6. Measure and record the results in the test report.

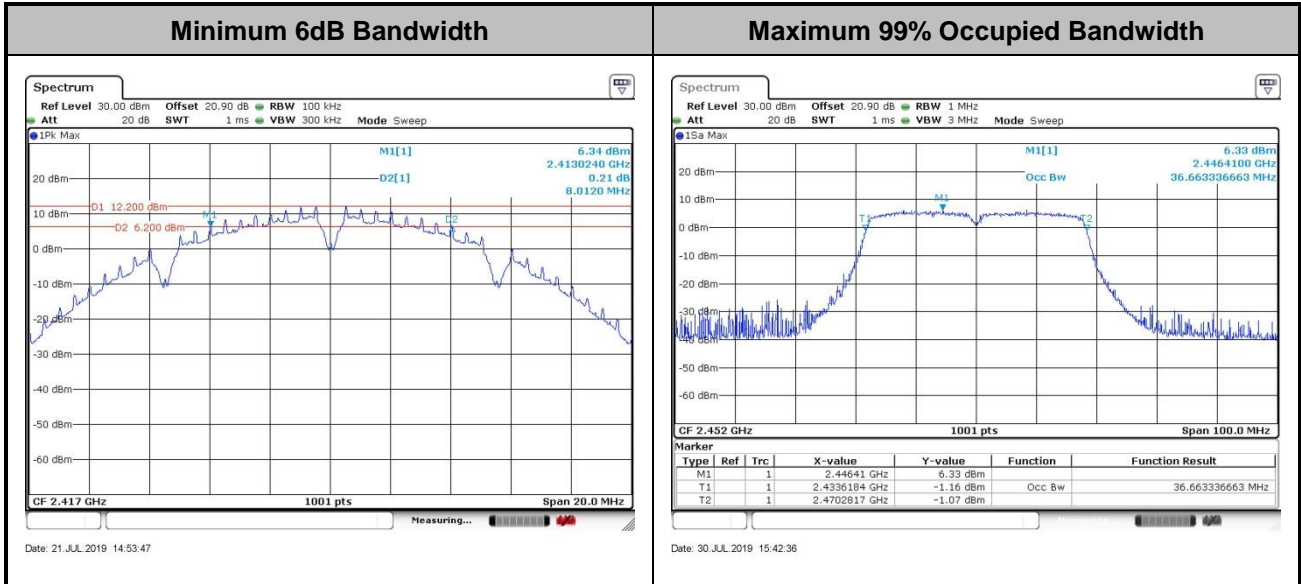
##### 3.1.4 Test Setup





### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

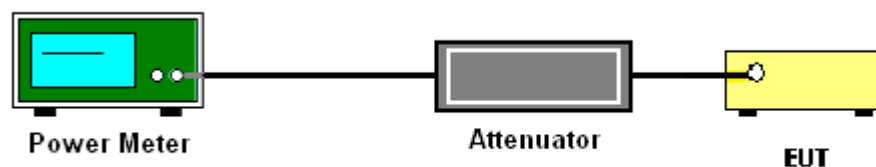
### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. 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. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

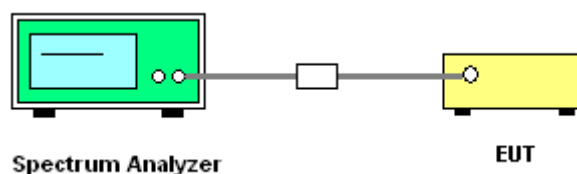
If measurements performed using method (2) plus  $10 \log(N)$  exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (2): Measure and add  $10 \log(N)$  dB, where N is the number of outputs. (N=2)

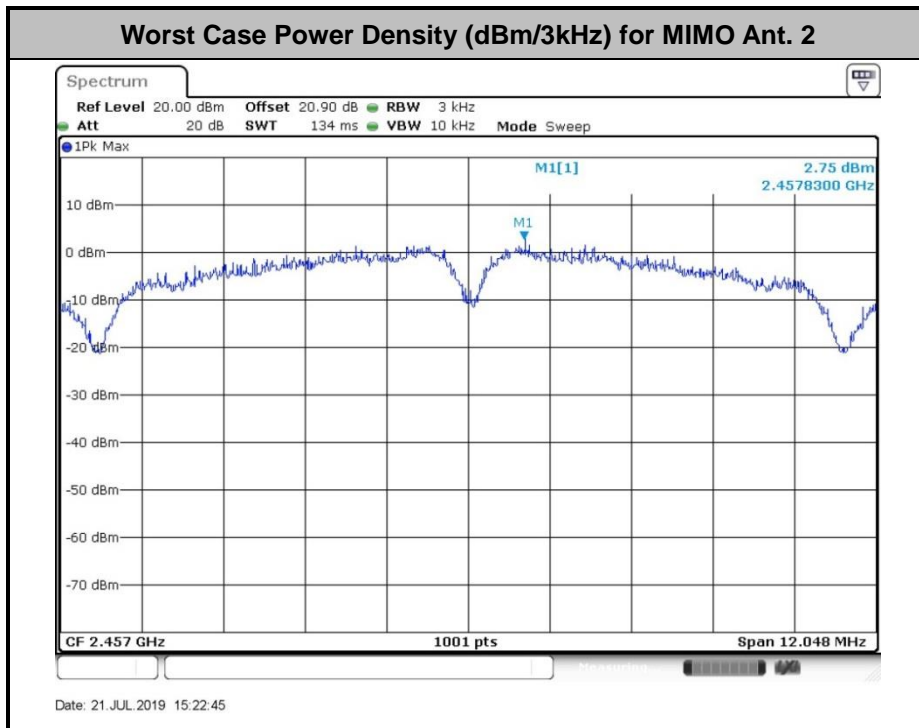
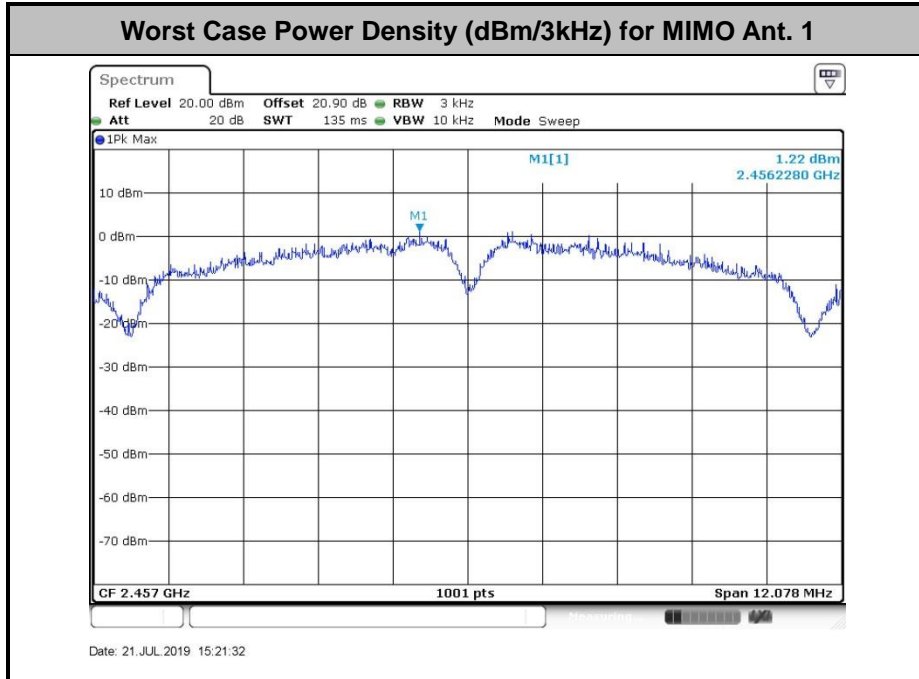
#### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

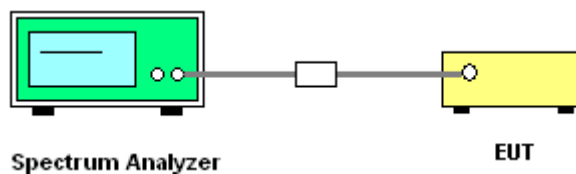
### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. 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=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz 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 per 15.247(d).
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.

### 3.4.4 Test Setup





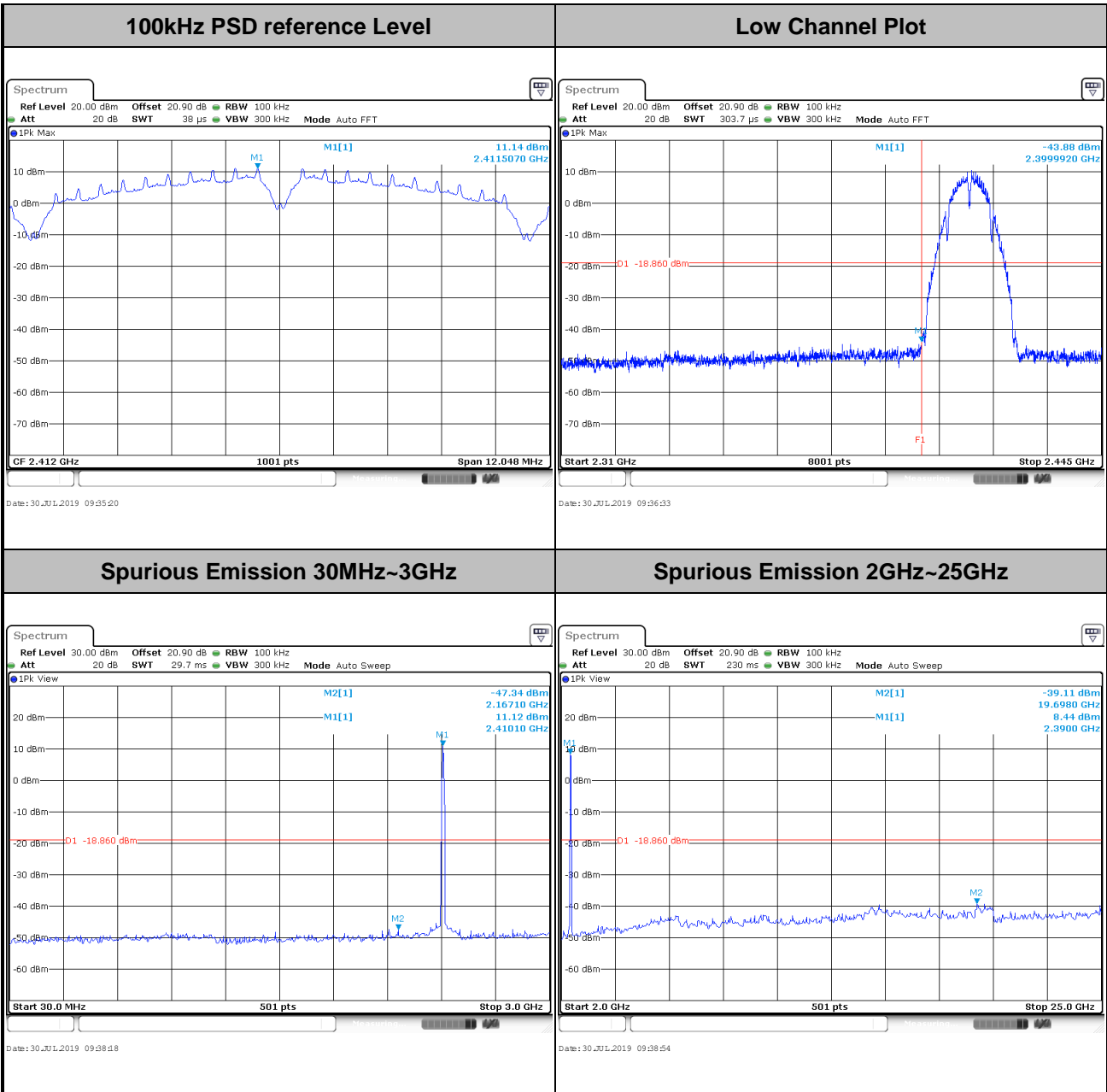


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Leo Li and CreedWu	Temperature :	21~25°C
	Relative Humidity :	51~54%

Number of TX = 2, Ant. 1 (Measured)

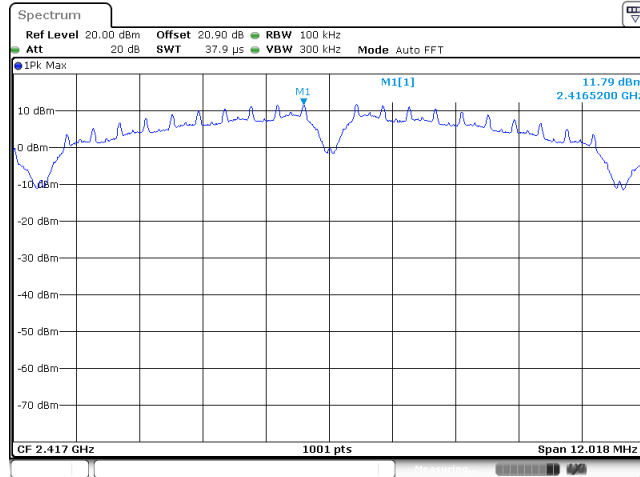
Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----





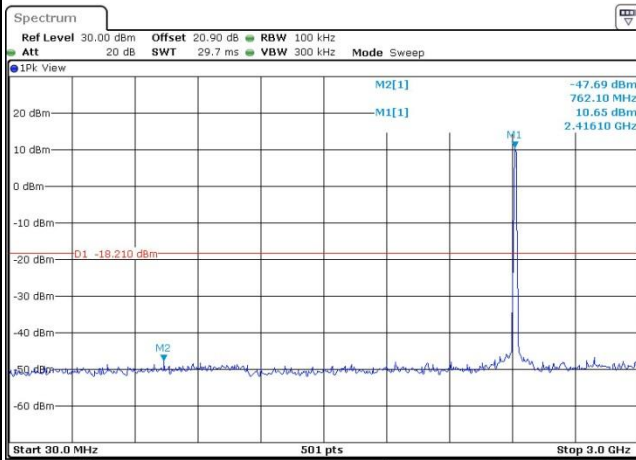
Test Mode :	802.11b	Test Channel :	02
-------------	---------	----------------	----

100kHz PSD reference Level



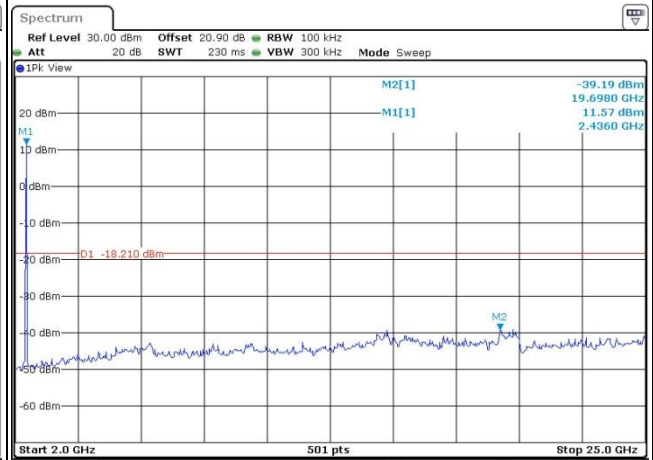
Date: 30 JUL 2019 09:47:55

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 10:48:46

Spurious Emission 2GHz~25GHz

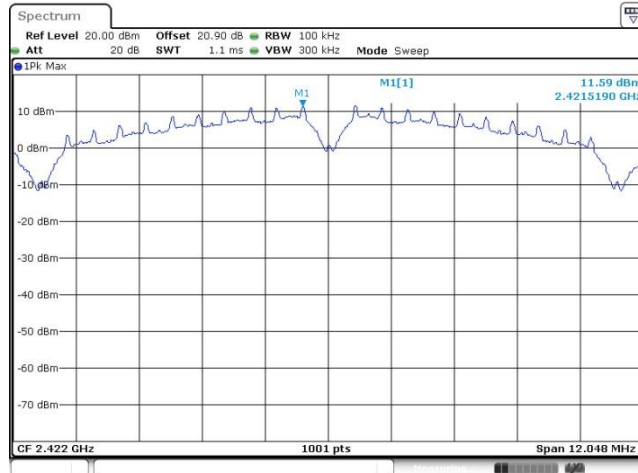


Date: 30 JUL 2019 10:49:00



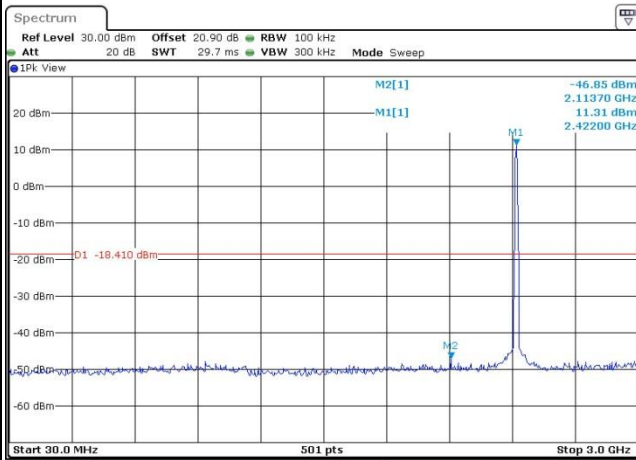
Test Mode :	802.11b	Test Channel :	03
-------------	---------	----------------	----

100kHz PSD reference Level



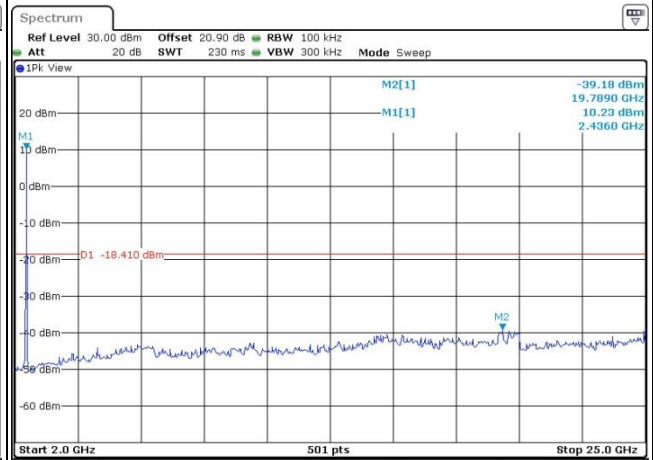
Date: 30 JUL 2019 10:57:08

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 10:58:11

Spurious Emission 2GHz~25GHz

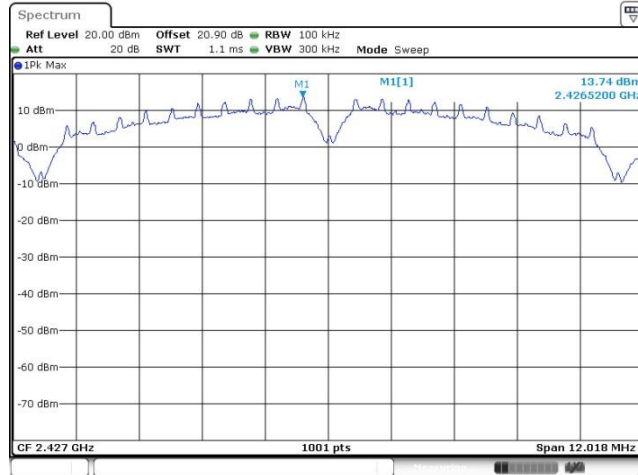


Date: 30 JUL 2019 10:58:22

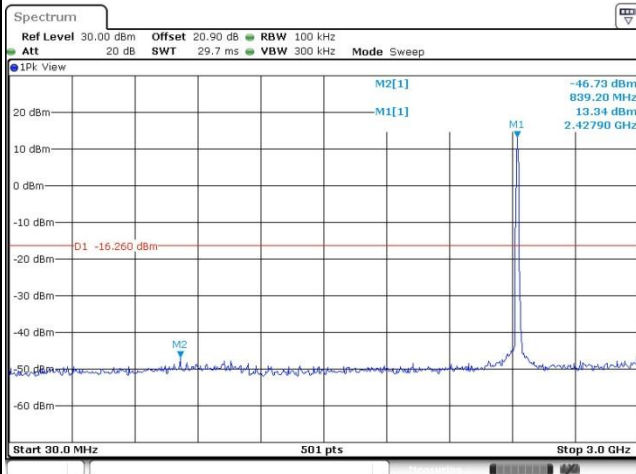


Test Mode :	802.11b	Test Channel :	04
-------------	---------	----------------	----

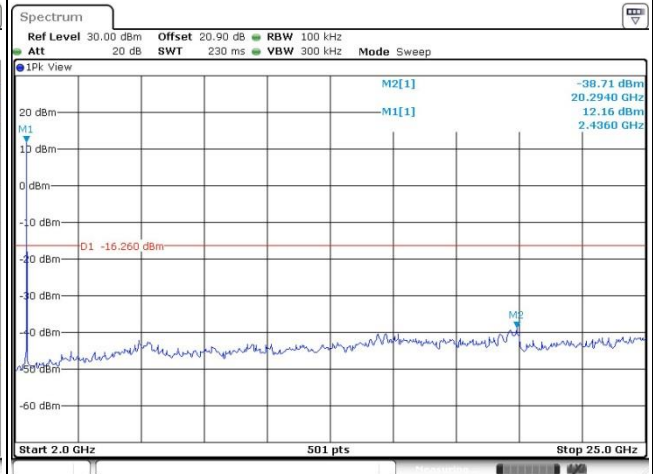
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz



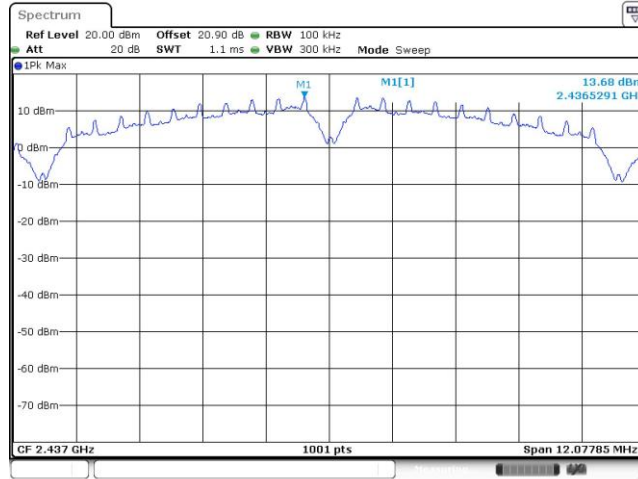
Spurious Emission 2GHz~25GHz





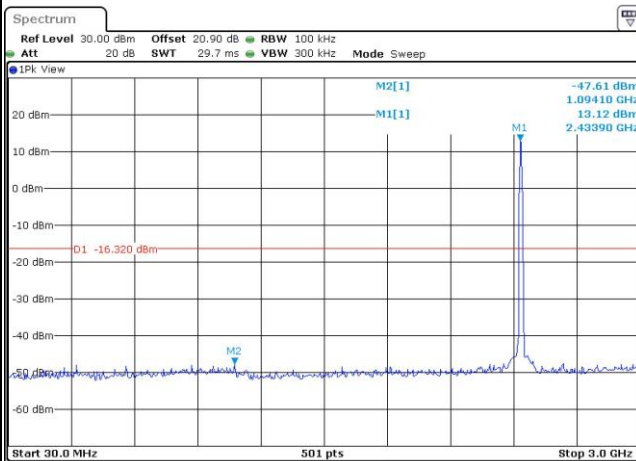
Test Mode :	802.11b	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level



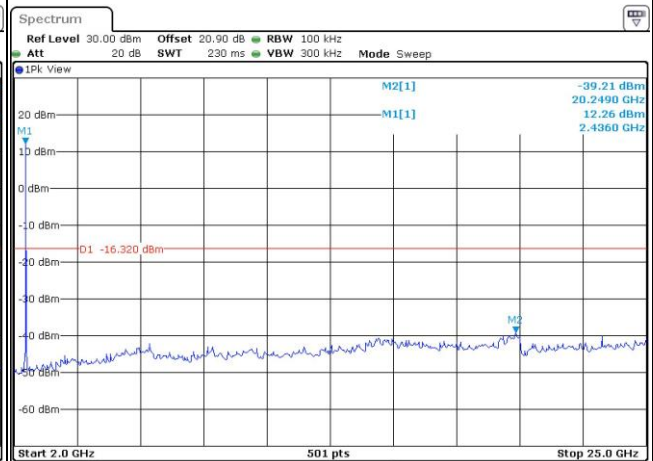
Date: 30 JUL 2019 11:11:05

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:13:26

Spurious Emission 2GHz~25GHz

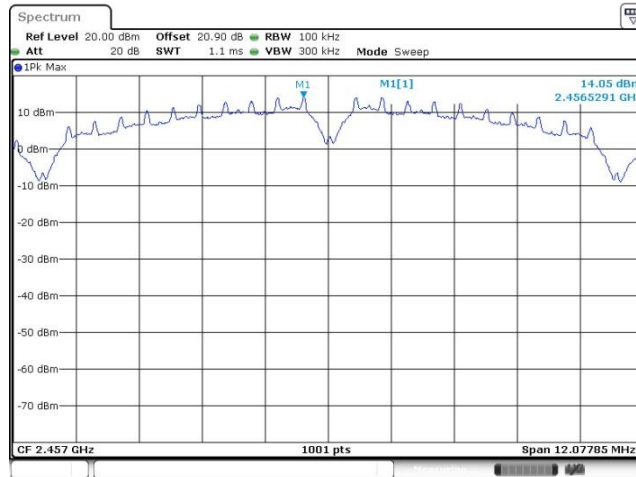


Date: 30 JUL 2019 11:13:39



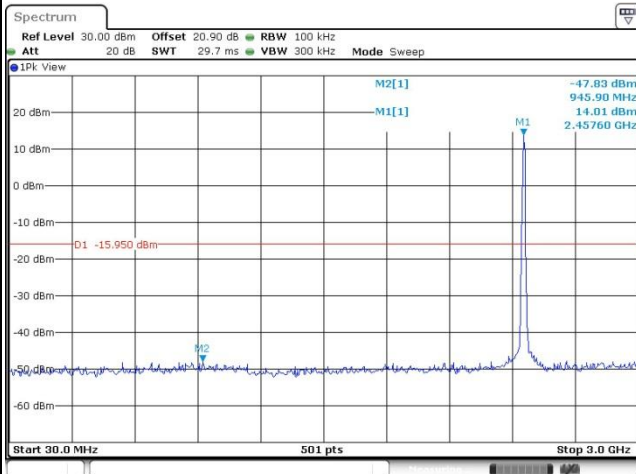
Test Mode :	802.11b	Test Channel :	10
-------------	---------	----------------	----

100kHz PSD reference Level



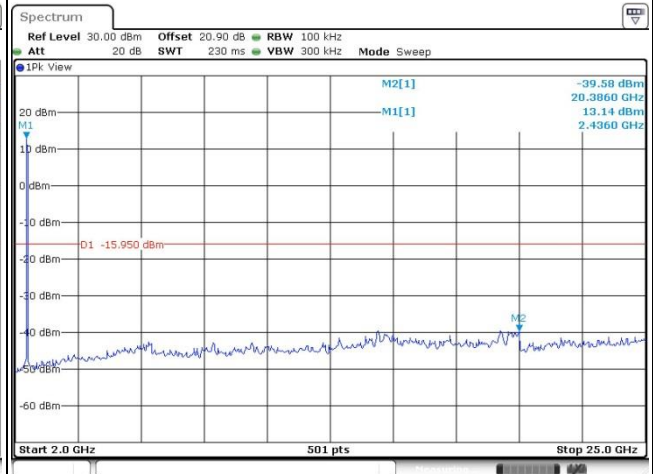
Date: 30 JUL 2019 11:20:49

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:32:51

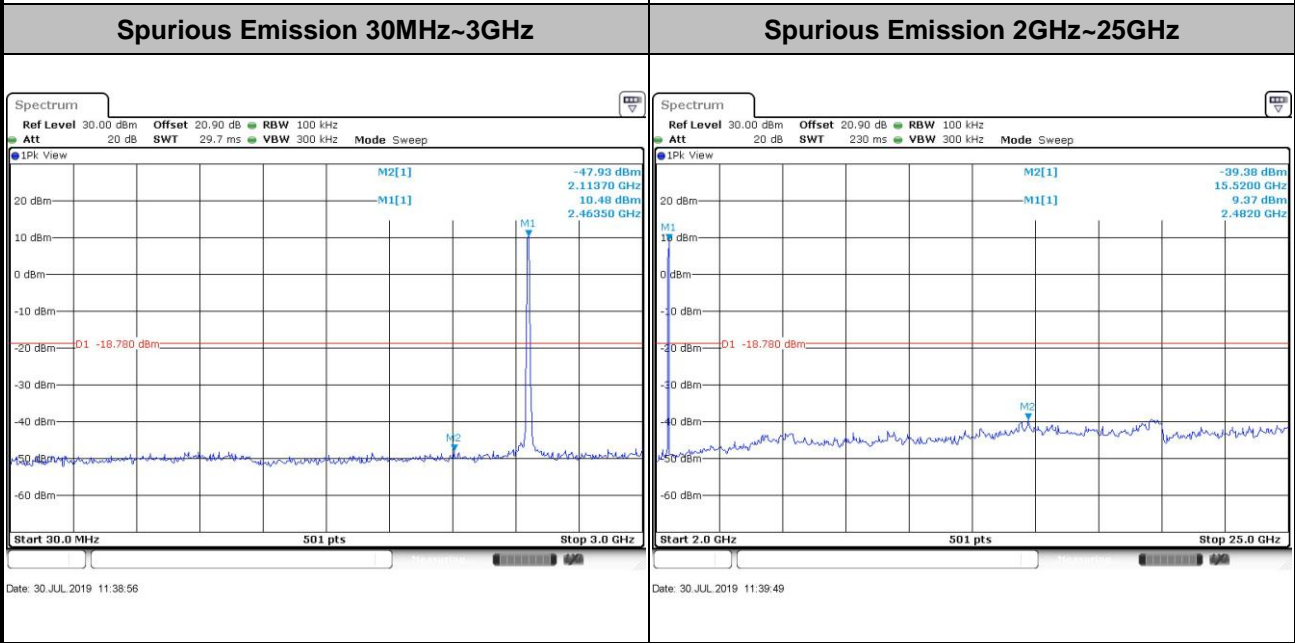
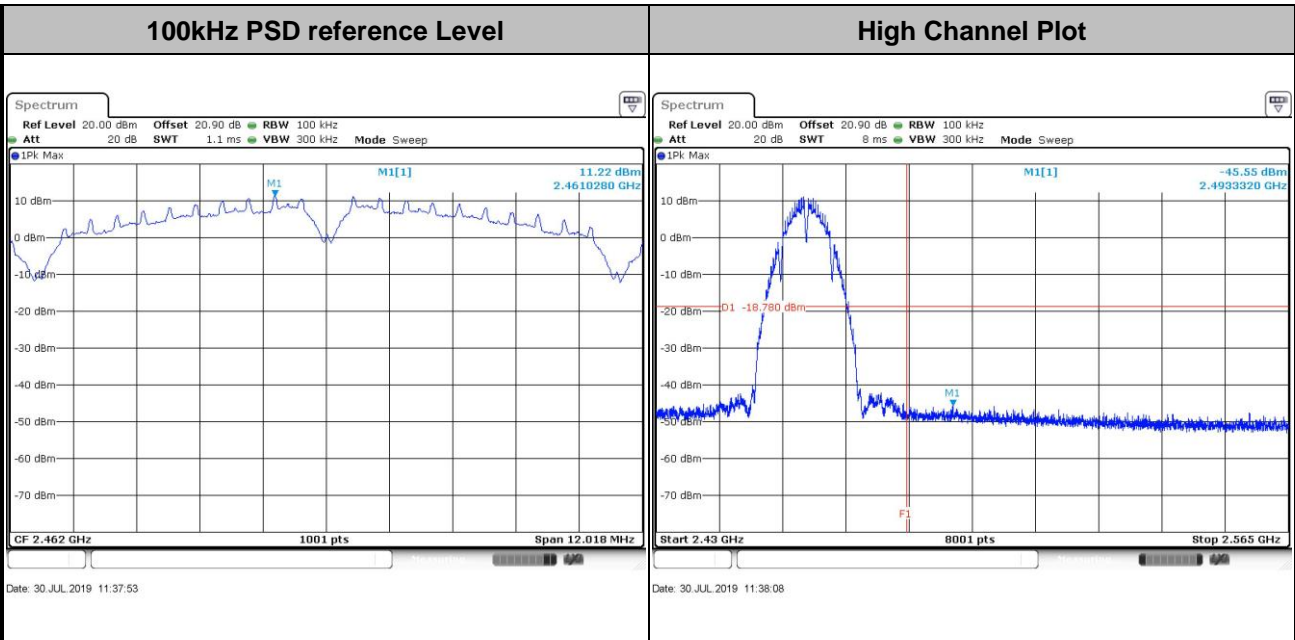
Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 11:33:33



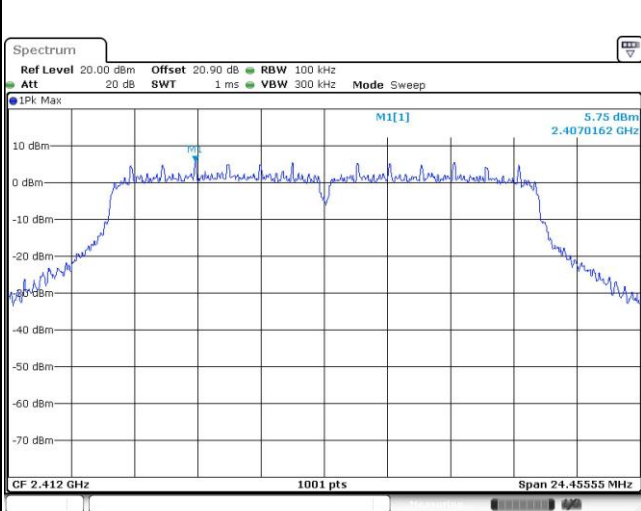
Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----



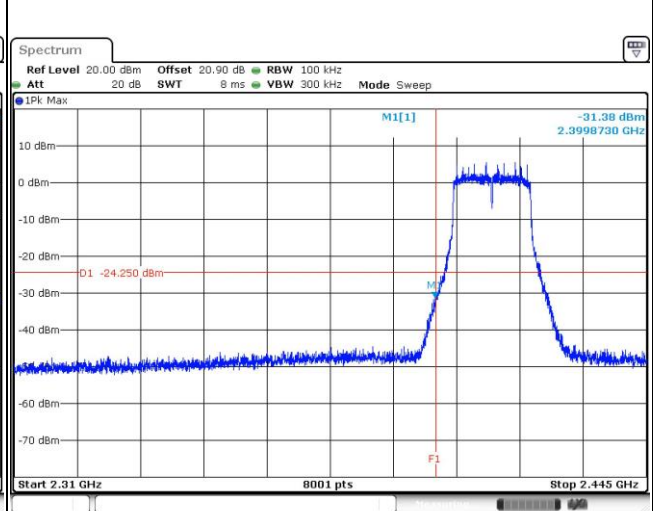


Test Mode : 802.11g      Test Channel : 01

100kHz PSD reference Level      Low Channel Plot

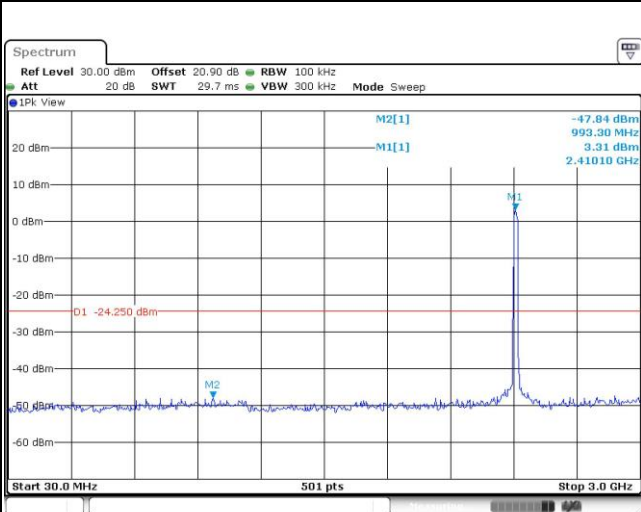


Date: 30 JUL 2019 11:51:05

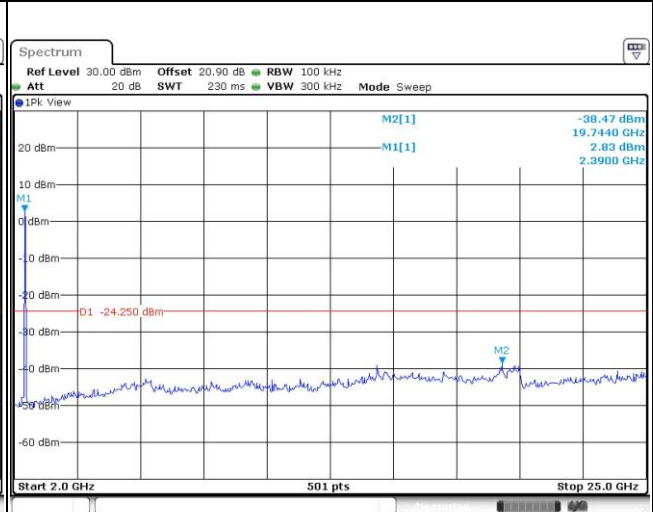


Date: 30 JUL 2019 11:51:18

Spurious Emission 30MHz~3GHz      Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 11:52:51



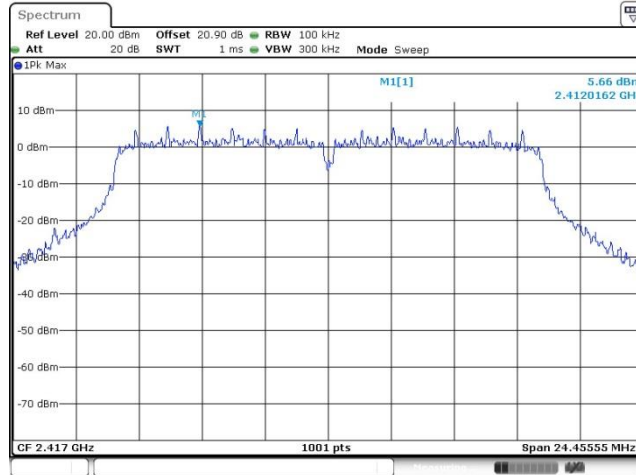
Date: 30 JUL 2019 11:53:05





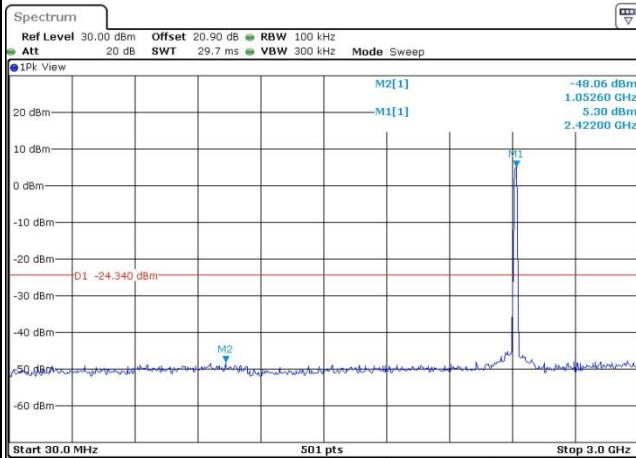
Test Mode :	802.11g	Test Channel :	02
-------------	---------	----------------	----

100kHz PSD reference Level



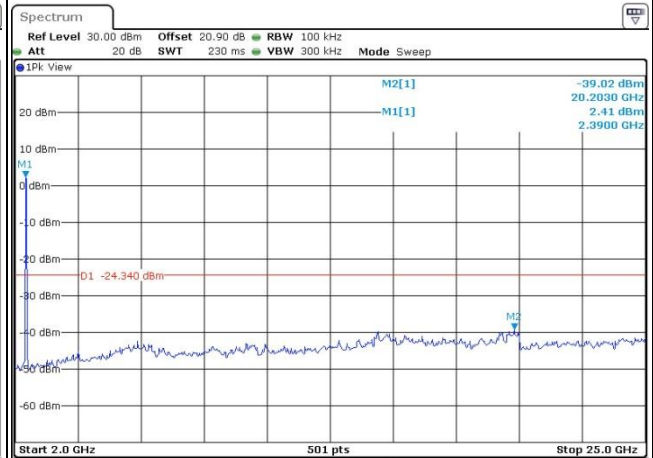
Date: 30 JUL 2019 12:00:53

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 12:01:26

Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 12:01:41



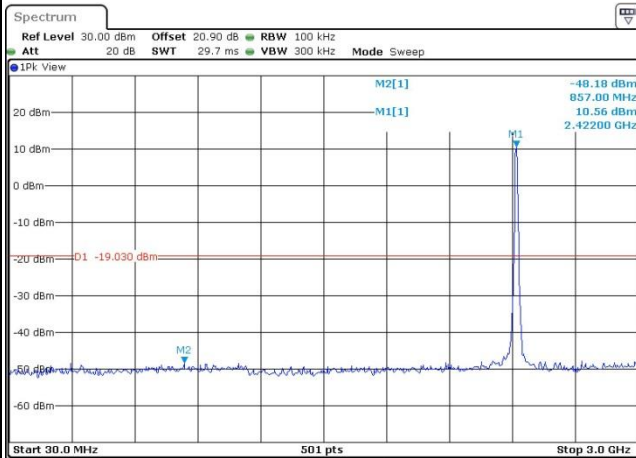
Test Mode :	802.11g	Test Channel :	03
-------------	---------	----------------	----

100kHz PSD reference Level



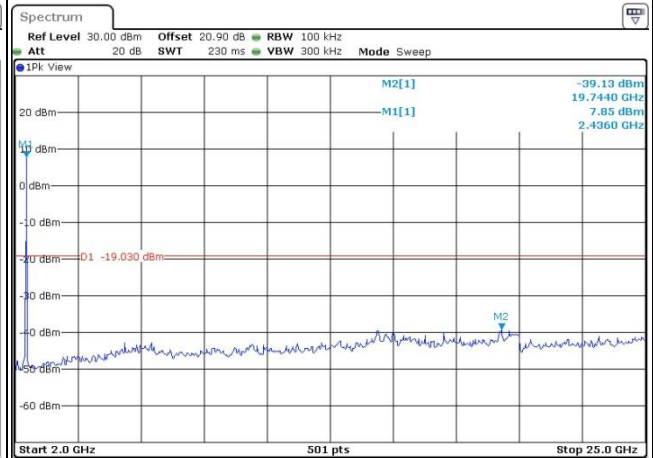
Date: 30 JUL 2019 13:42:11

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 13:45:11

Spurious Emission 2GHz~25GHz

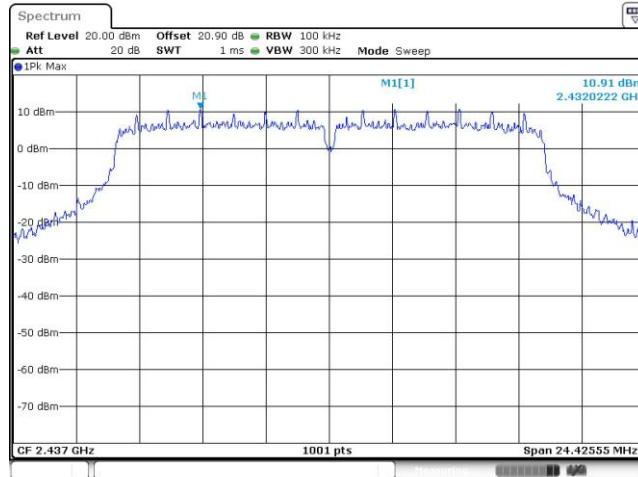


Date: 30 JUL 2019 13:45:23



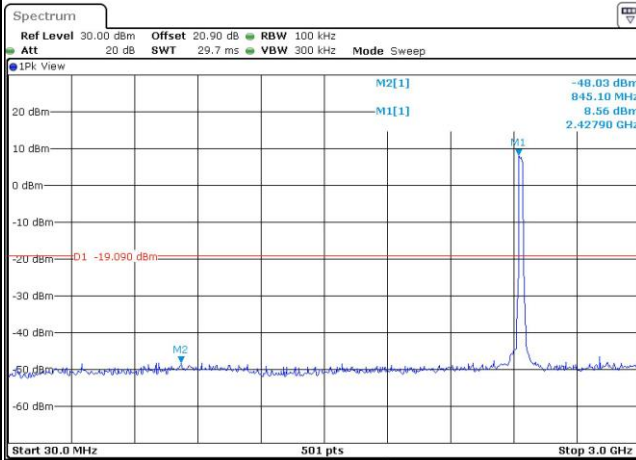
Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level



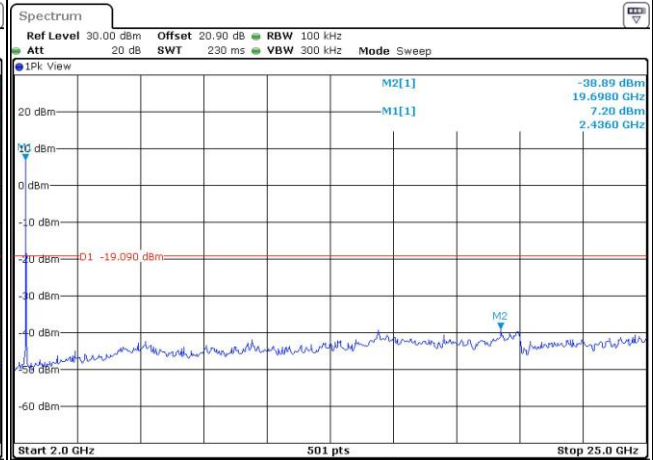
Date: 30 JUL 2019 13:49:51

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 13:52:17

Spurious Emission 2GHz~25GHz

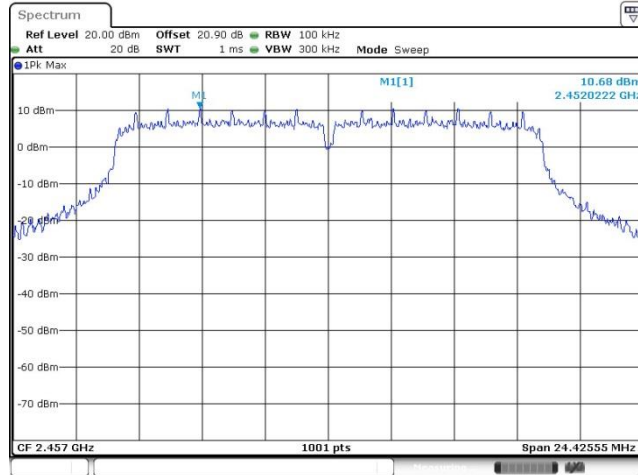


Date: 30 JUL 2019 13:52:30



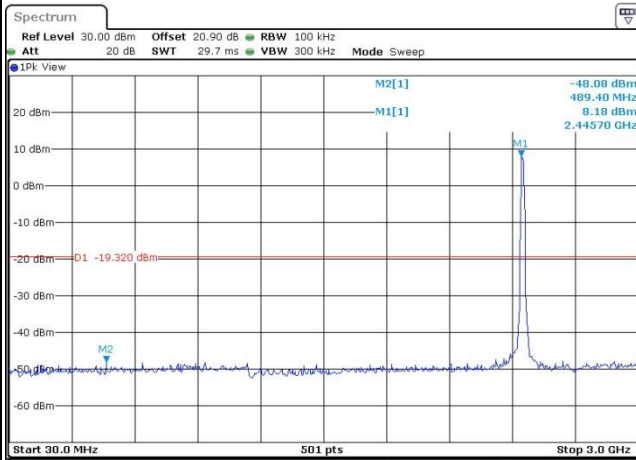
Test Mode :	802.11g	Test Channel :	10
-------------	---------	----------------	----

100kHz PSD reference Level



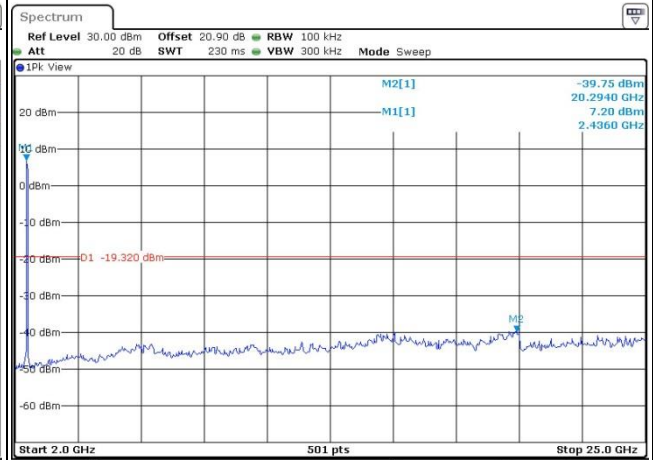
Date: 30 JUL 2019 13:57:24

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 15:56:28

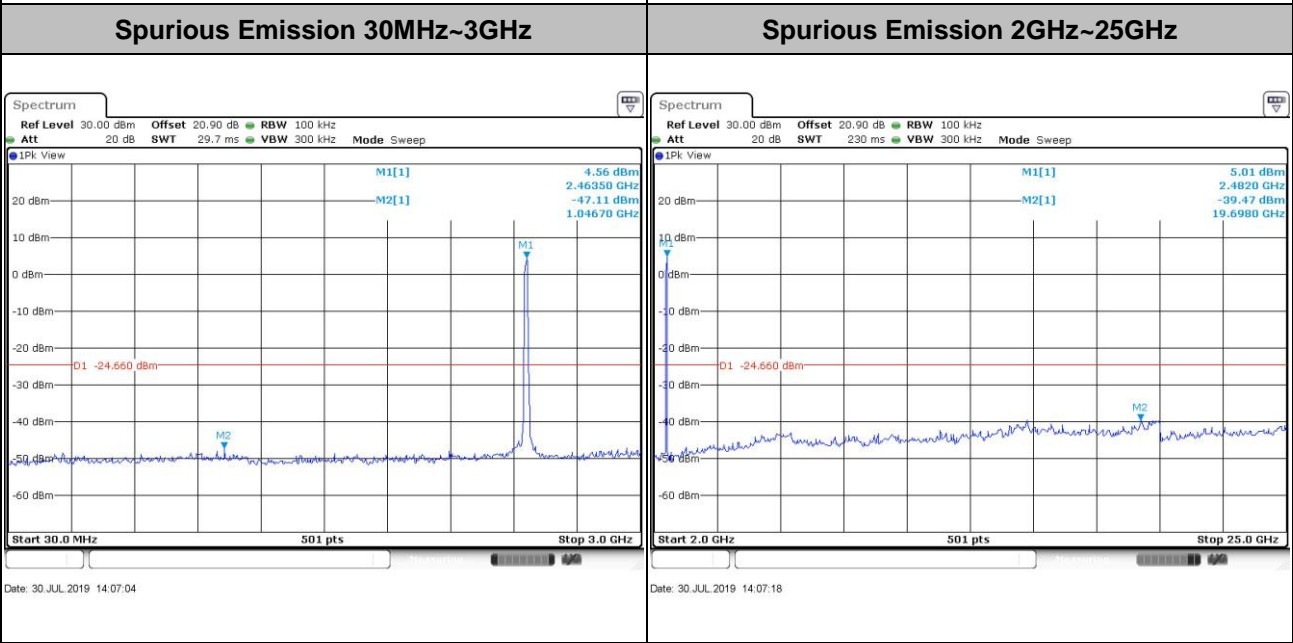
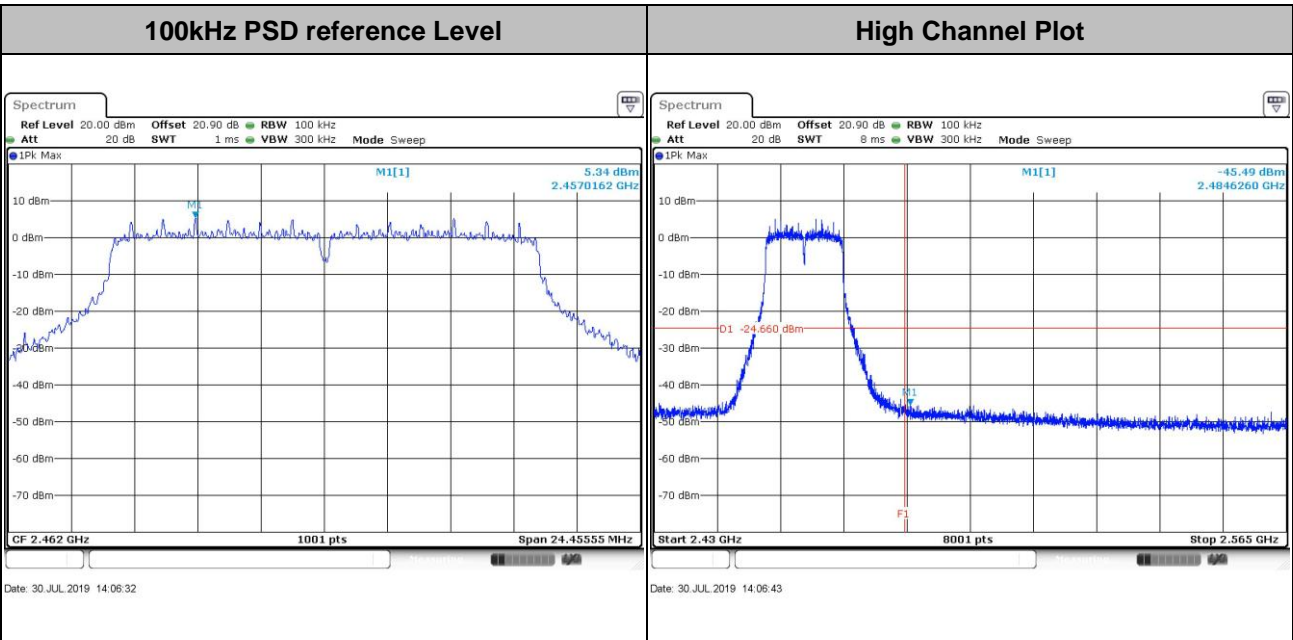
Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 15:56:44

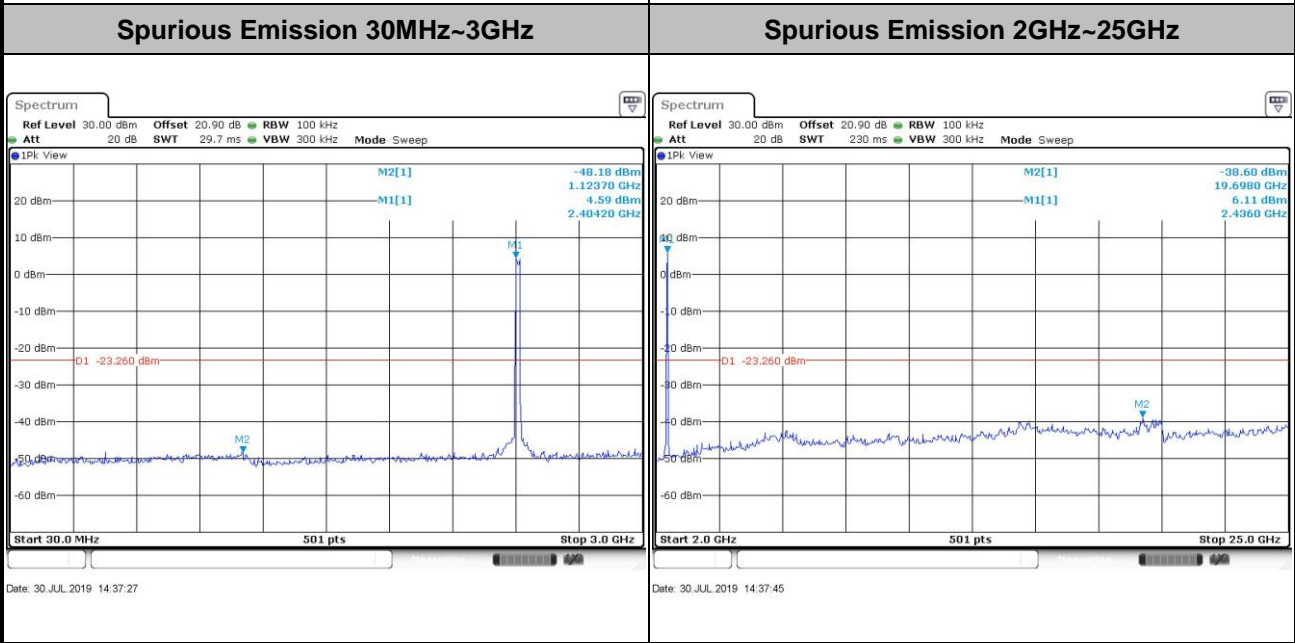
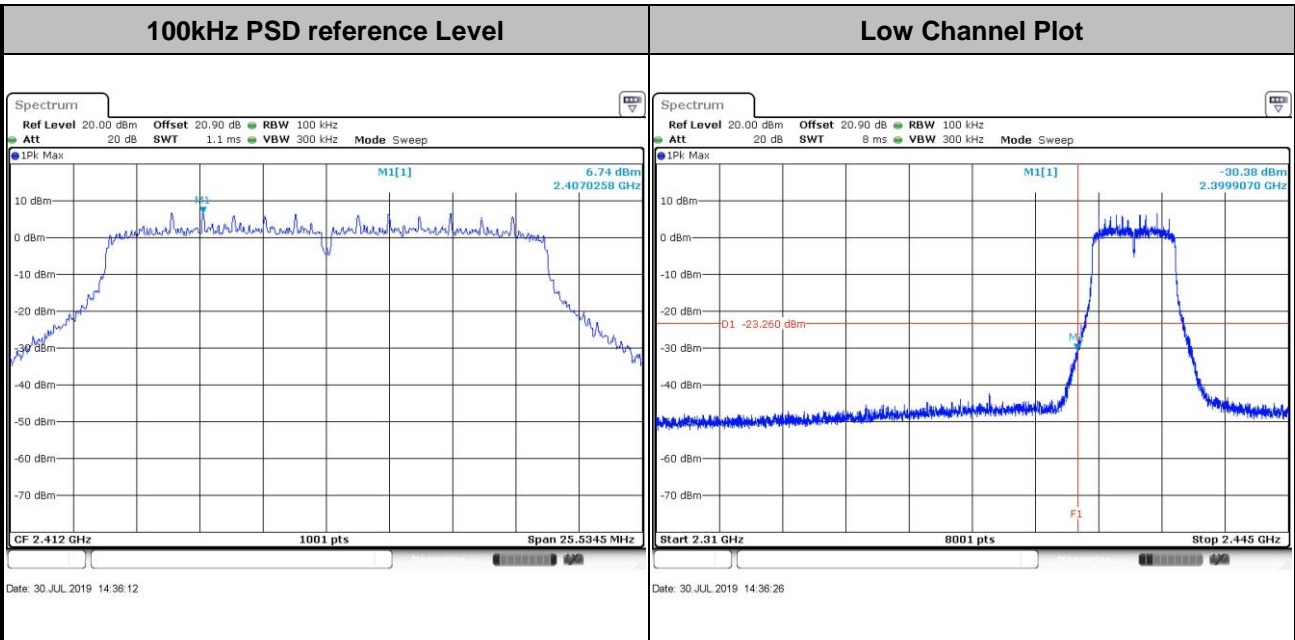


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----





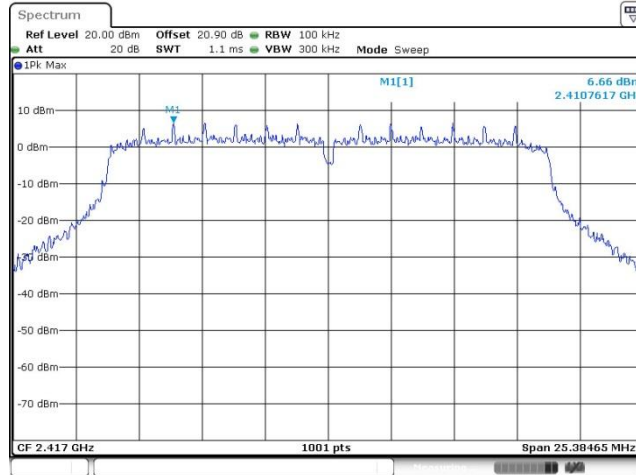
Test Mode :	802.11n HT20	Test Channel :	01
-------------	--------------	----------------	----





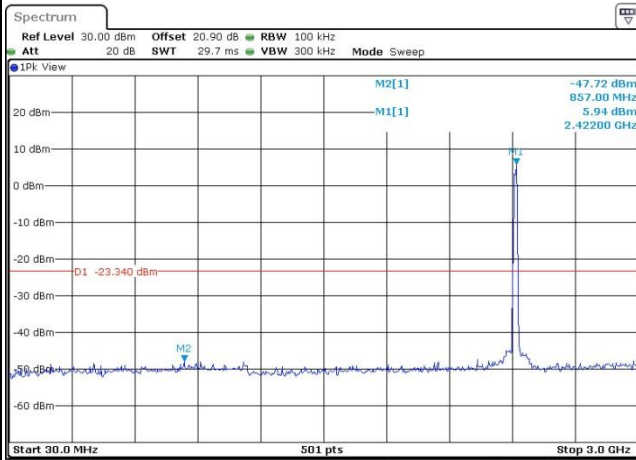
Test Mode :	802.11n HT20	Test Channel :	02
-------------	--------------	----------------	----

100kHz PSD reference Level



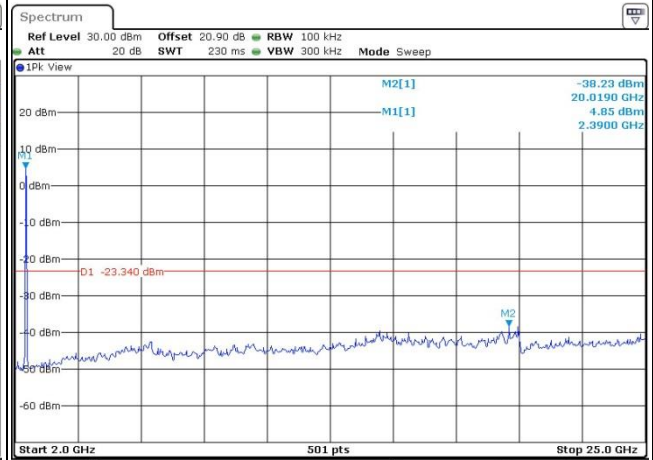
Date: 30 JUL 2019 14:43:23

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 14:44:33

Spurious Emission 2GHz~25GHz

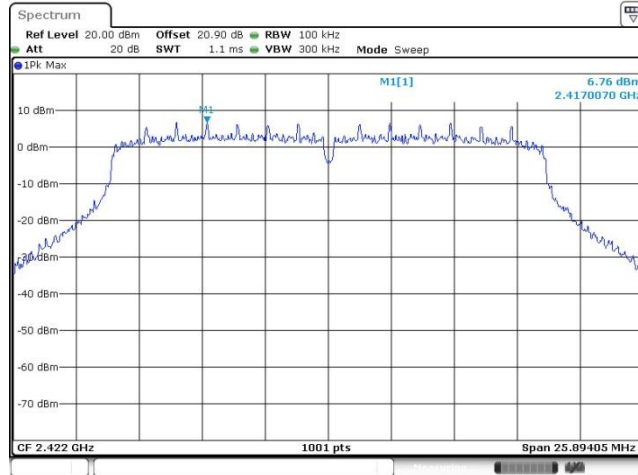


Date: 30 JUL 2019 14:44:46



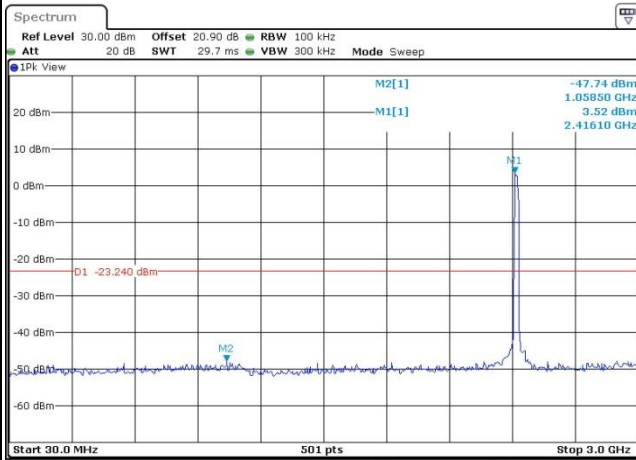
Test Mode :	802.11n HT20	Test Channel :	03
-------------	--------------	----------------	----

100kHz PSD reference Level



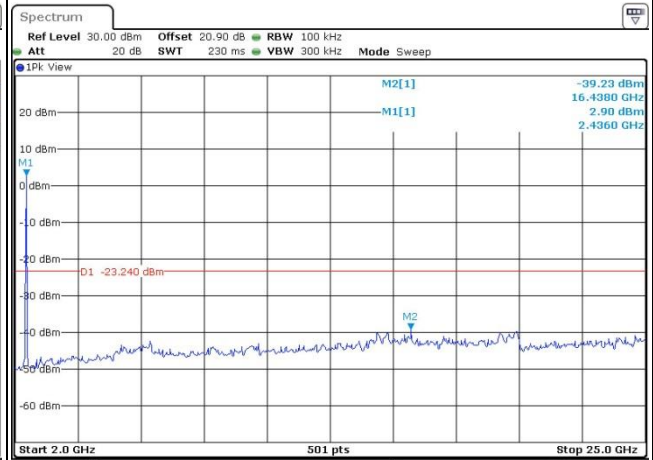
Date: 30 JUL 2019 14:51:17

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 14:51:44

Spurious Emission 2GHz~25GHz



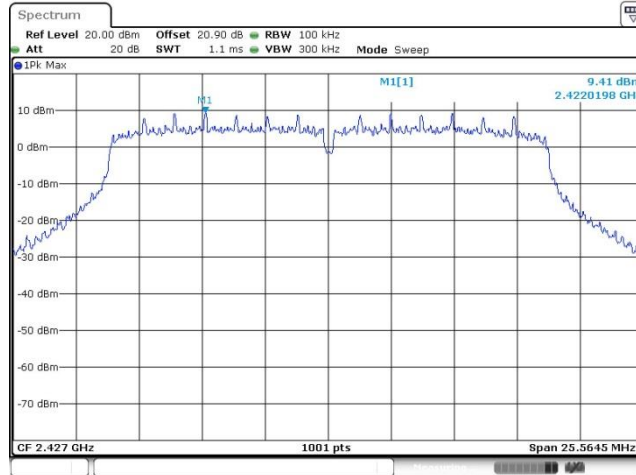
Date: 30 JUL 2019 14:51:59





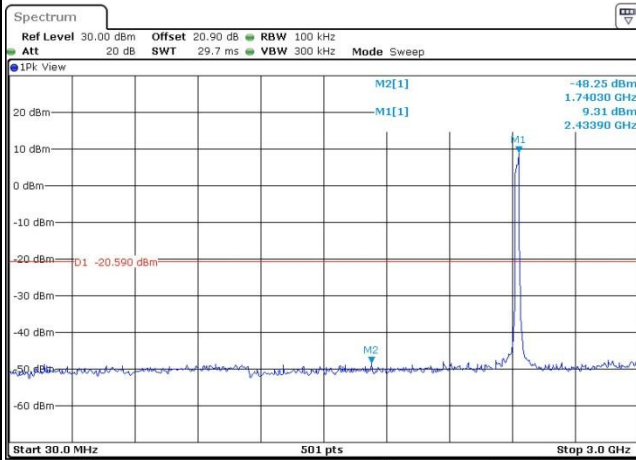
Test Mode :	802.11n HT20	Test Channel :	04
-------------	--------------	----------------	----

100kHz PSD reference Level



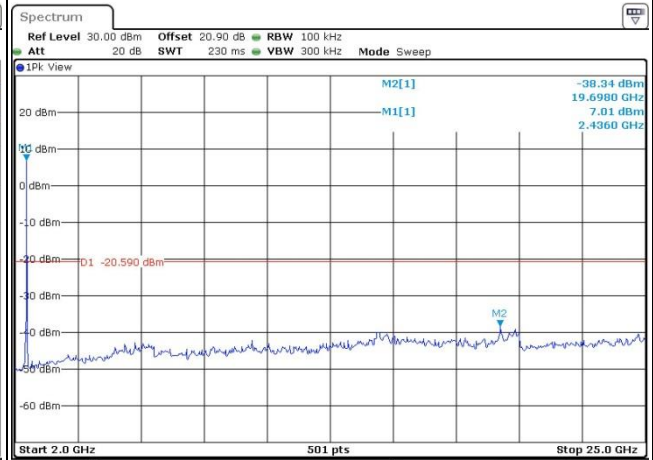
Date: 30 JUL 2019 15:00:15

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 15:01:39

Spurious Emission 2GHz~25GHz

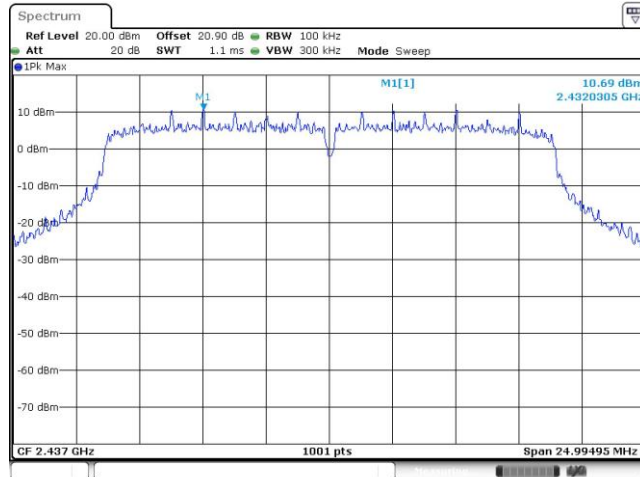


Date: 30 JUL 2019 15:01:58



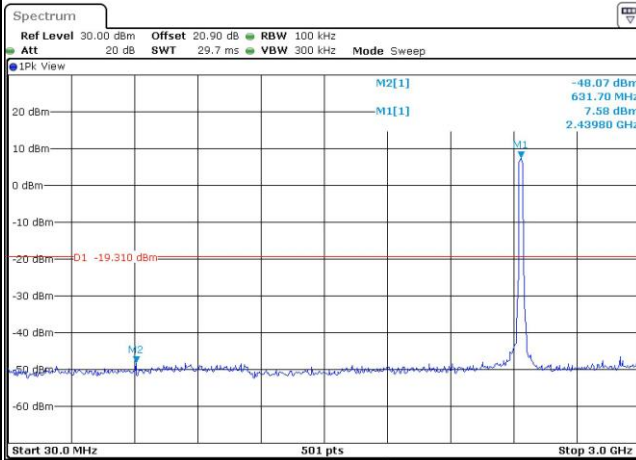
Test Mode :	802.11n HT20	Test Channel :	06
-------------	--------------	----------------	----

100kHz PSD reference Level



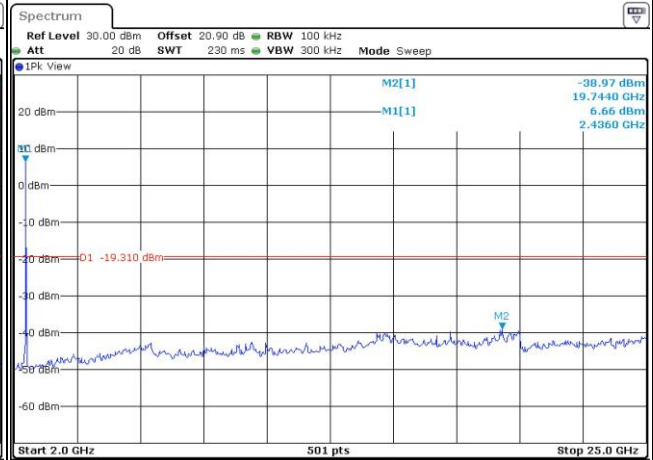
Date: 30 JUL 2019 15:05:26

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 15:05:54

Spurious Emission 2GHz~25GHz

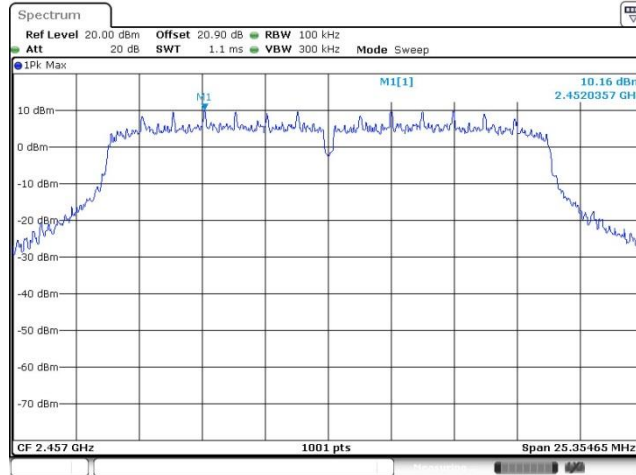


Date: 30 JUL 2019 15:06:06



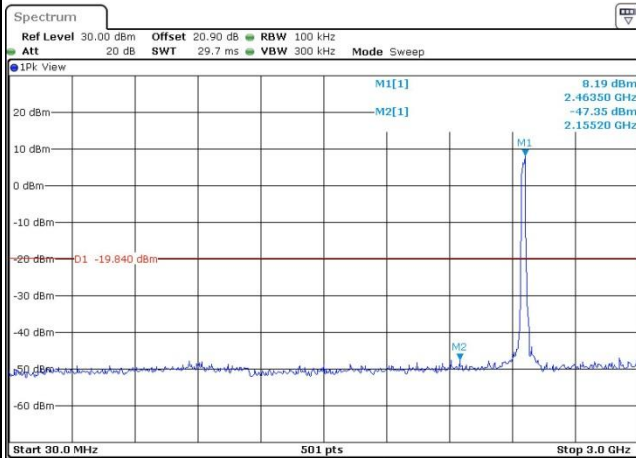
Test Mode :	802.11n HT20	Test Channel :	10
-------------	--------------	----------------	----

100kHz PSD reference Level



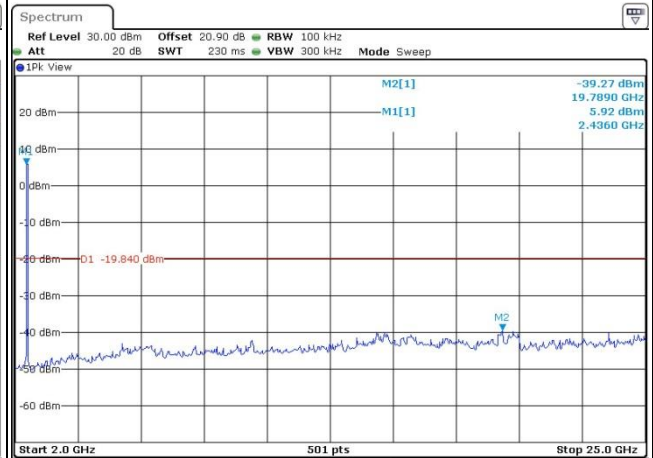
Date: 30 JUL 2019 15:11:29

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 15:12:22

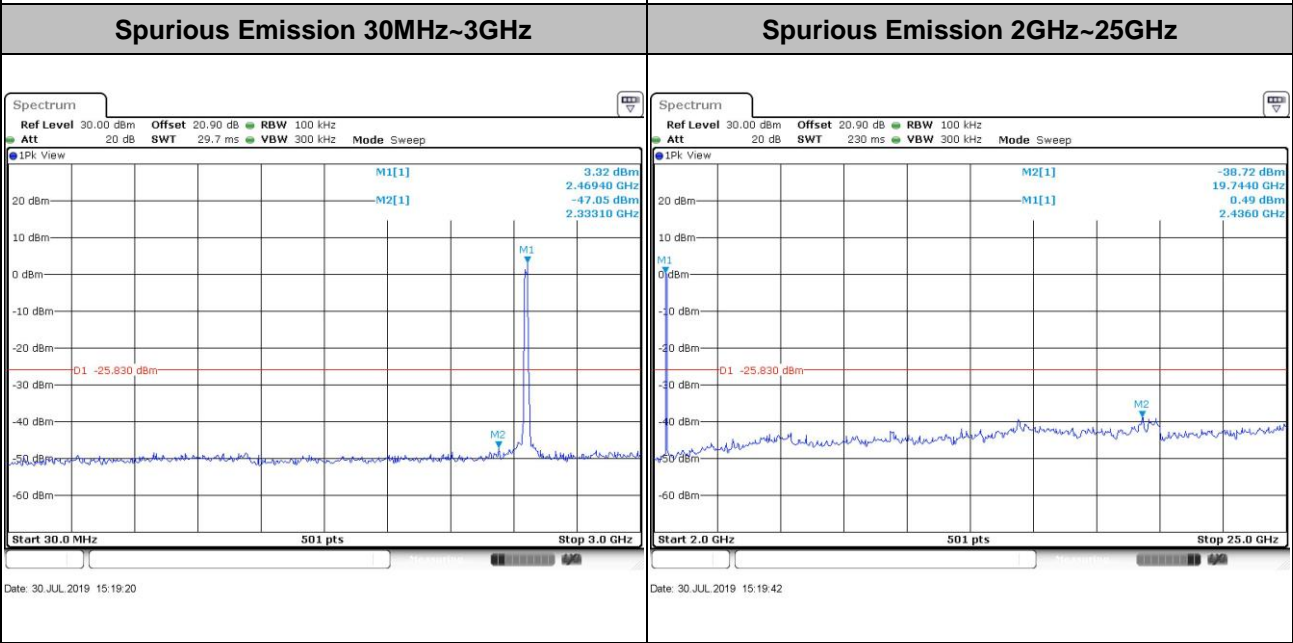
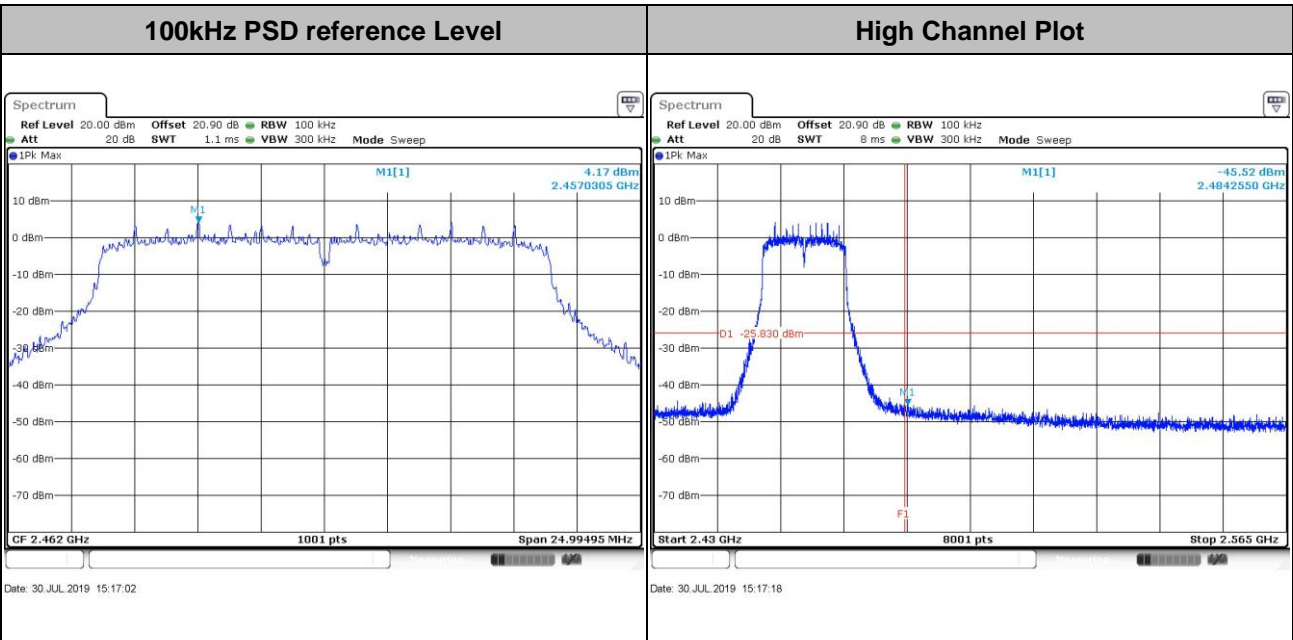
Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 15:12:44

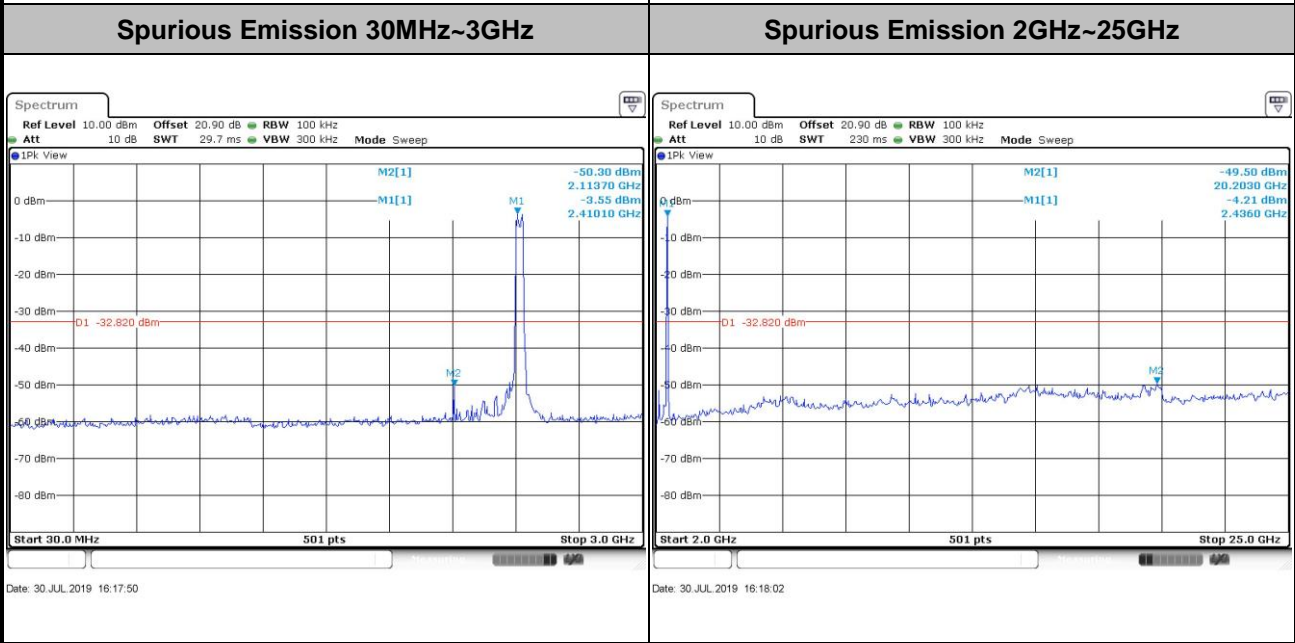
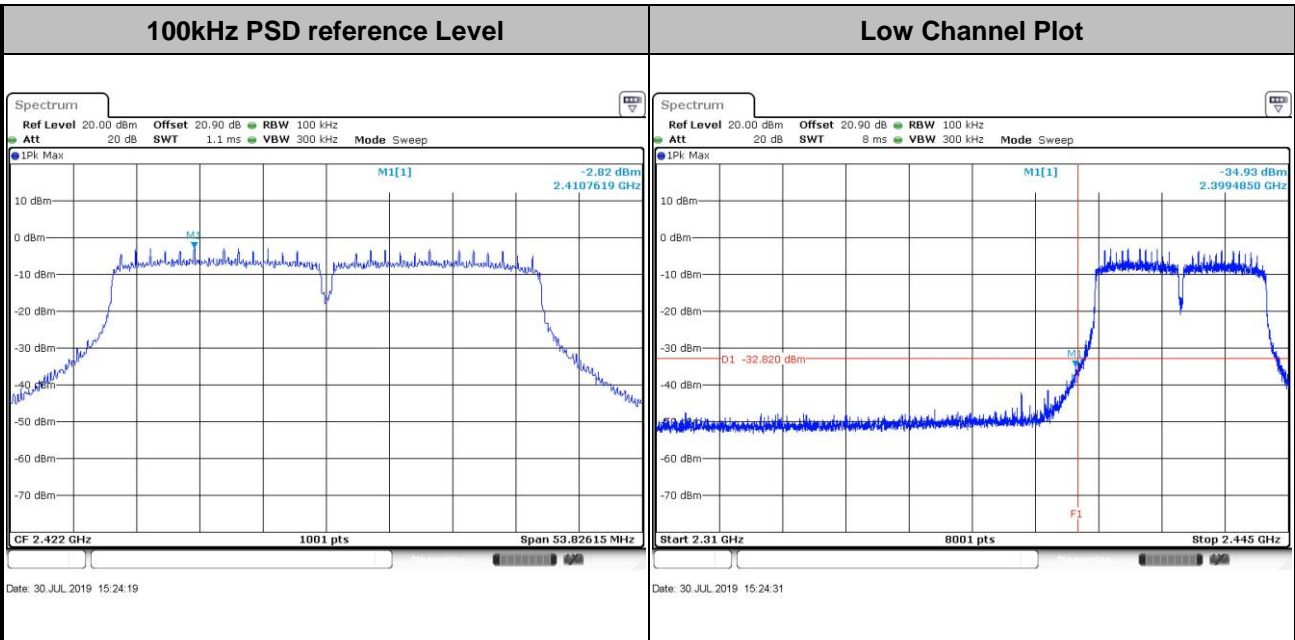


Test Mode :	802.11n HT20	Test Channel :	11
-------------	--------------	----------------	----





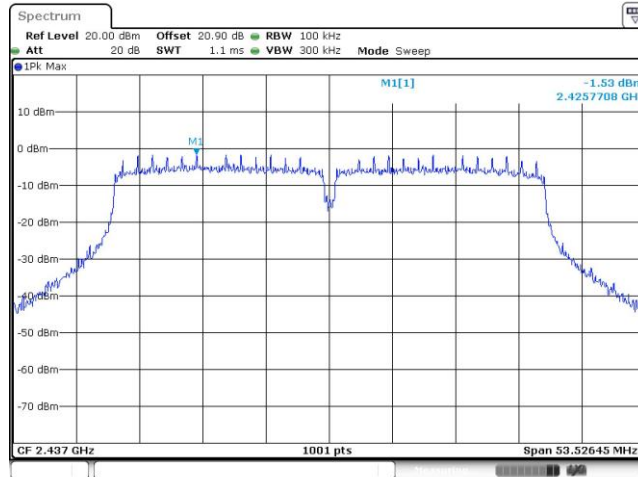
Test Mode : 802.11n HT40      Test Channel : 03





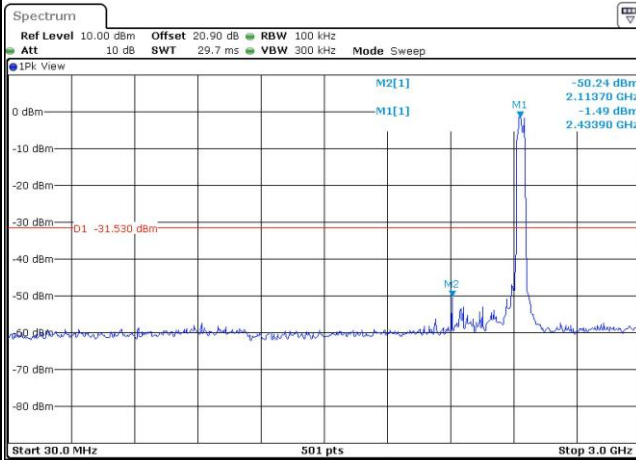
Test Mode :	802.11n HT40	Test Channel :	06
-------------	--------------	----------------	----

100kHz PSD reference Level



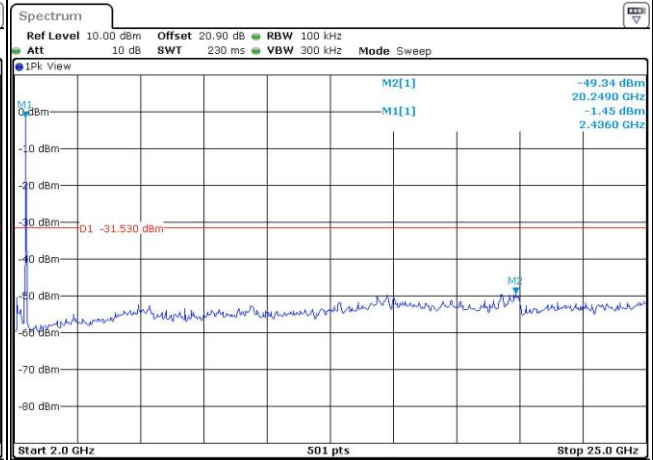
Date: 30 JUL 2019 15:31:16

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 16:33:51

Spurious Emission 2GHz~25GHz

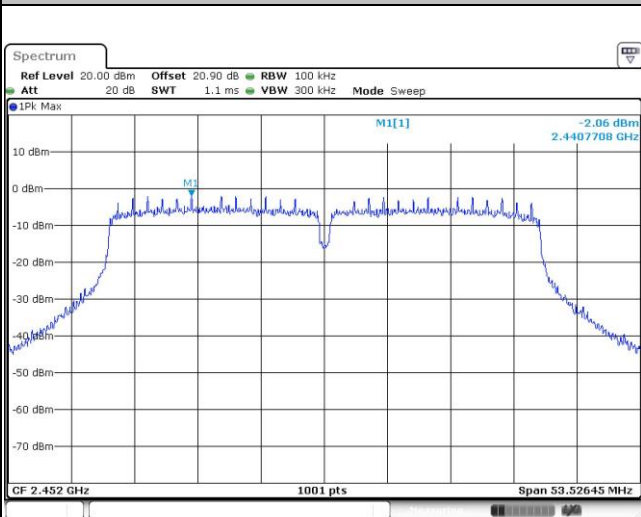


Date: 30 JUL 2019 16:34:14

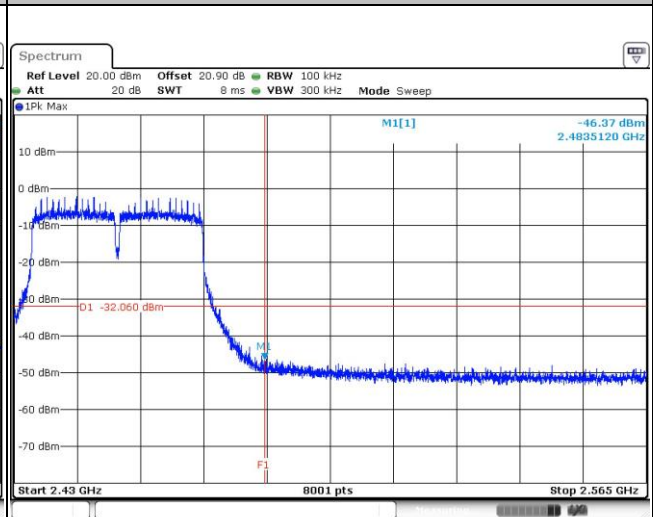


Test Mode : 802.11n HT40      Test Channel : 09

100kHz PSD reference Level      High Channel Plot

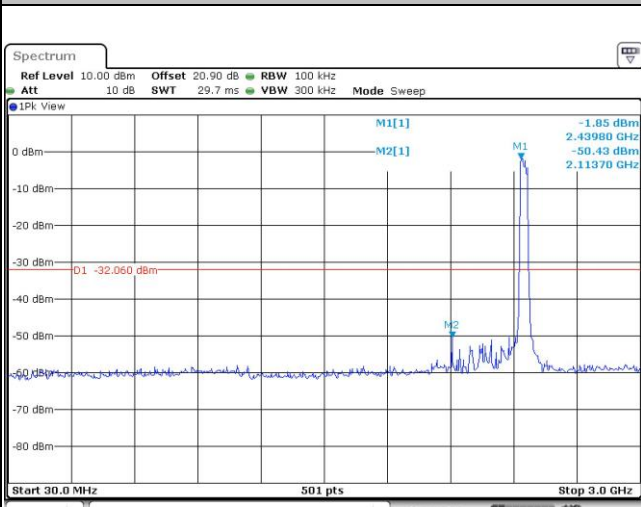


Date: 30 JUL 2019 15:41:00



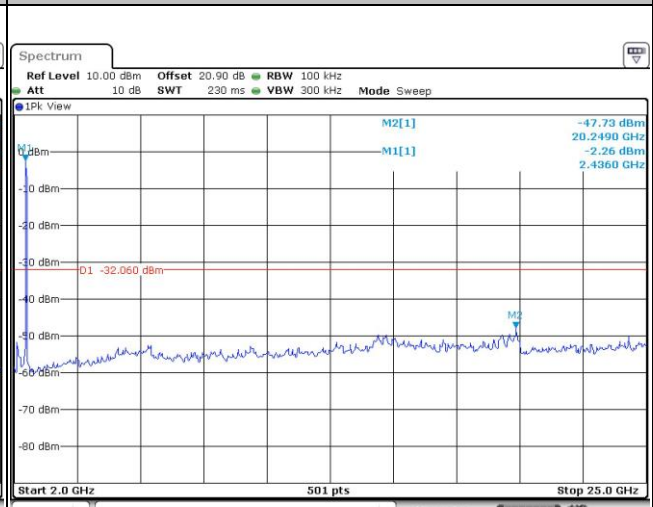
Date: 30 JUL 2019 15:41:22

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 16:42:32

Spurious Emission 2GHz~25GHz

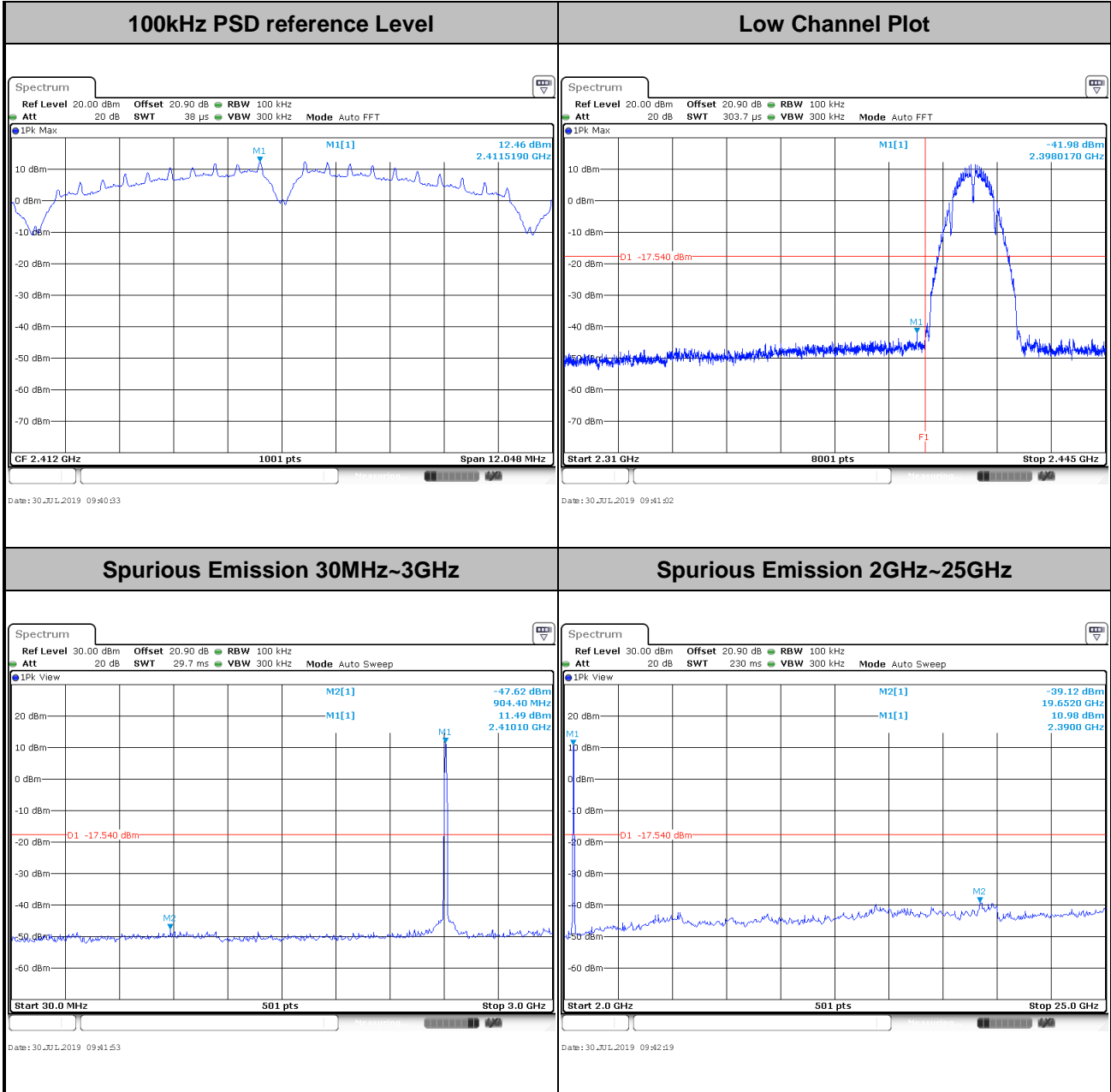


Date: 30 JUL 2019 16:42:51



Number of TX = 2, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----

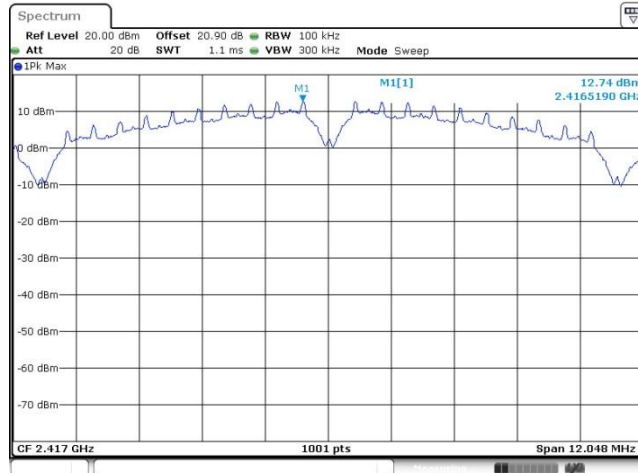






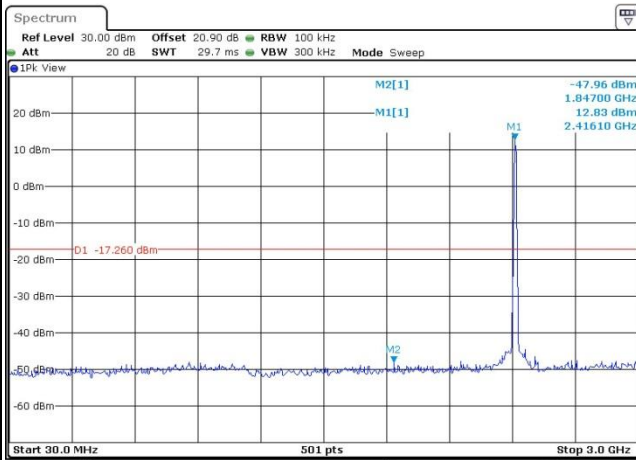
Test Mode :	802.11b	Test Channel :	02
-------------	---------	----------------	----

100kHz PSD reference Level



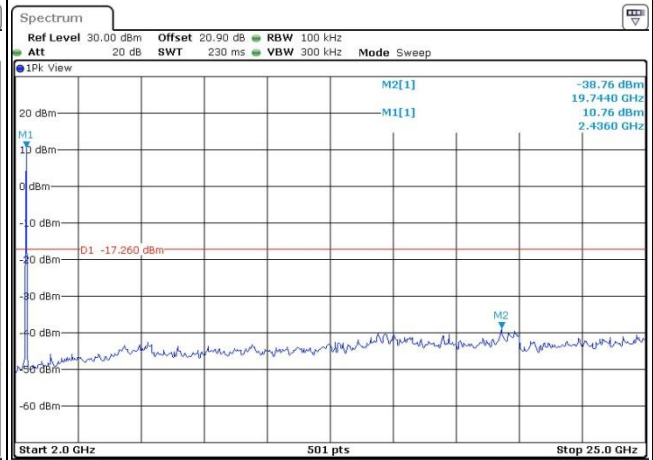
Date: 30 JUL 2019 10:50:10

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 10:54:17

Spurious Emission 2GHz~25GHz

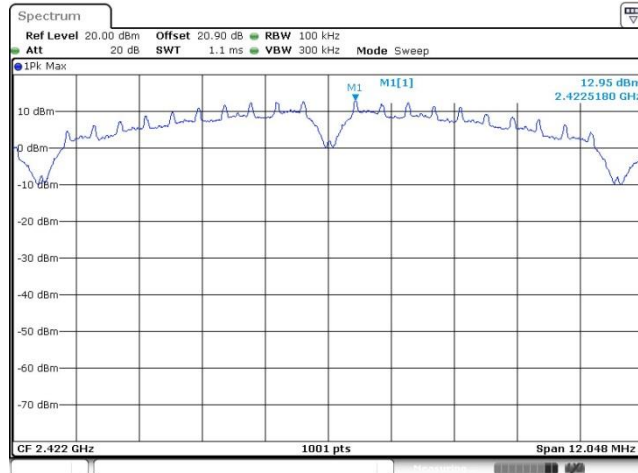


Date: 30 JUL 2019 10:54:30



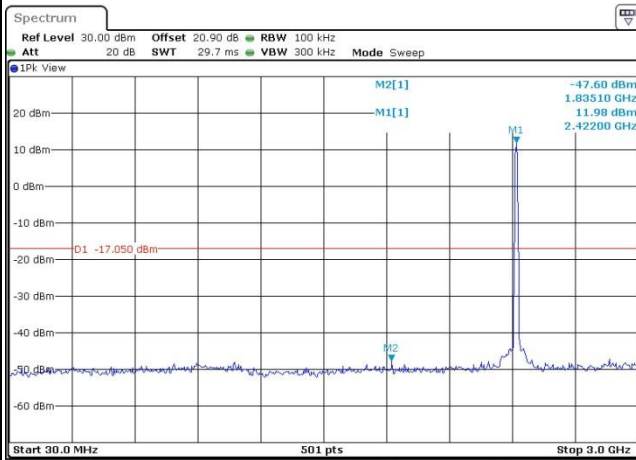
Test Mode :	802.11b	Test Channel :	03
-------------	---------	----------------	----

100kHz PSD reference Level



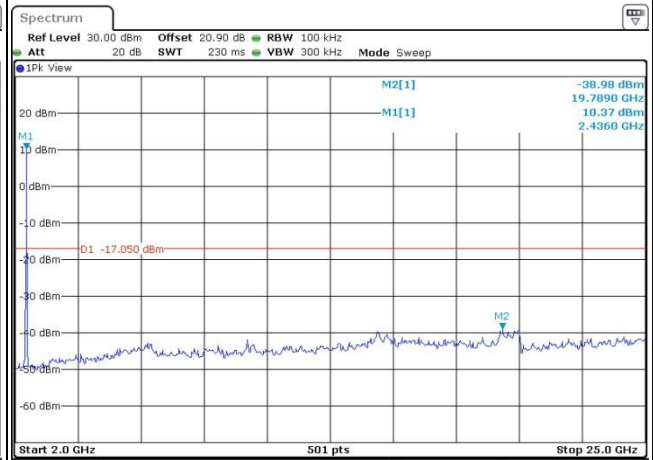
Date: 30 JUL 2019 11:01:07

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:01:56

Spurious Emission 2GHz~25GHz

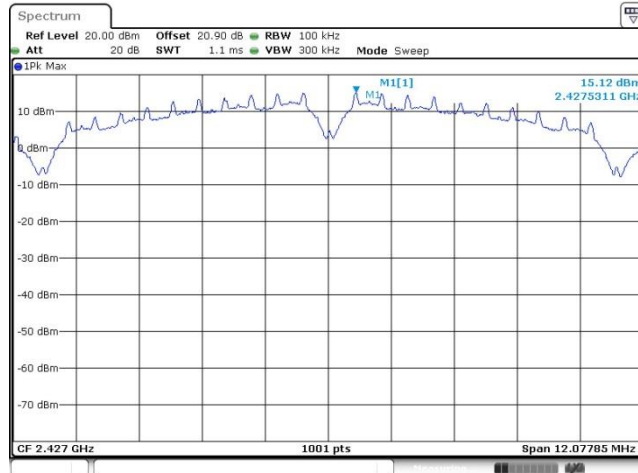


Date: 30 JUL 2019 11:02:09



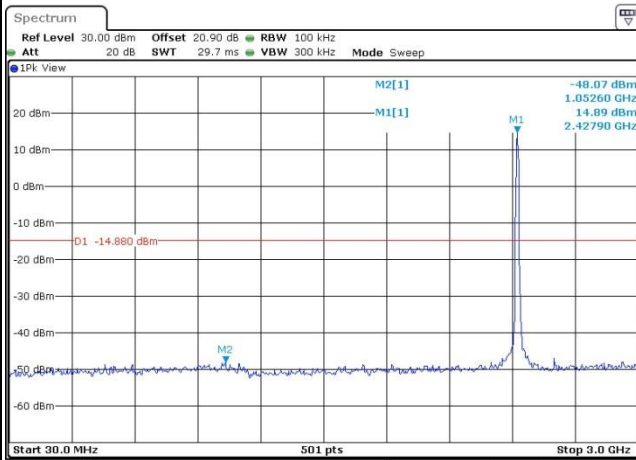
Test Mode :	802.11b	Test Channel :	04
-------------	---------	----------------	----

100kHz PSD reference Level



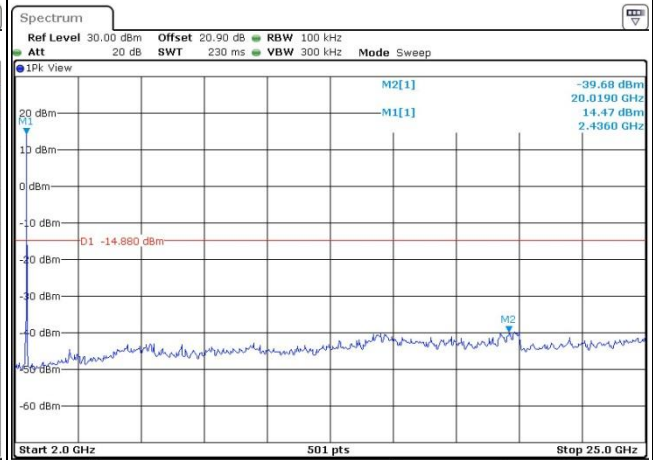
Date: 30 JUL 2019 11:06:42

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:09:02

Spurious Emission 2GHz~25GHz

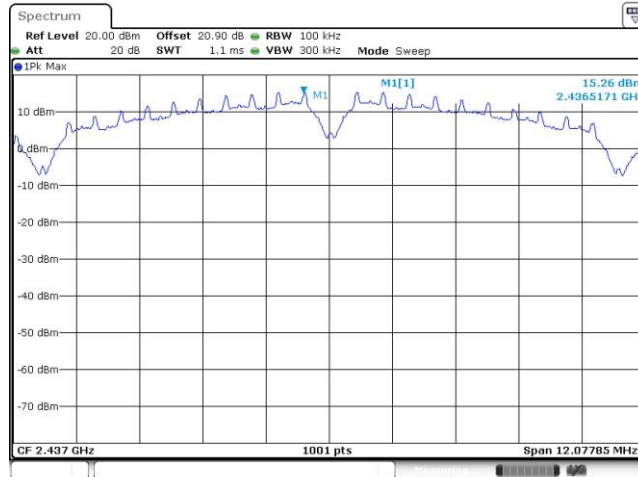


Date: 30 JUL 2019 11:09:14



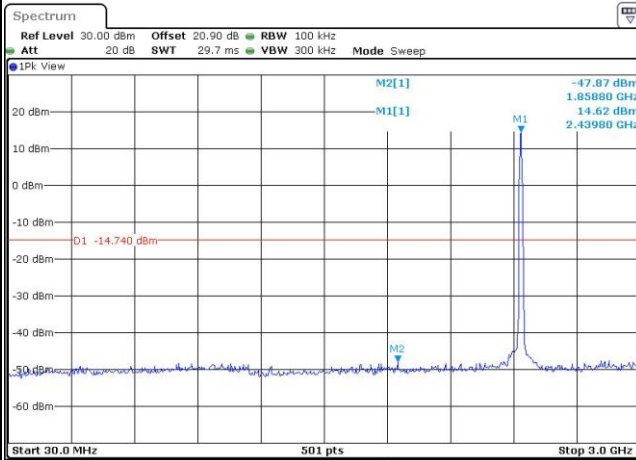
Test Mode :	802.11b	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level



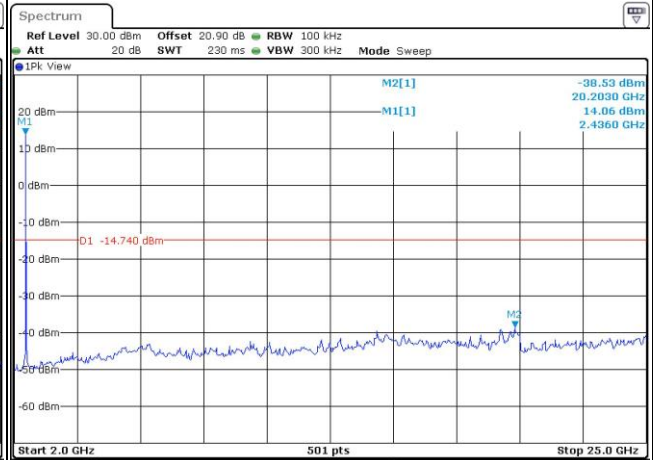
Date: 30 JUL 2019 11:14:52

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:16:09

Spurious Emission 2GHz~25GHz

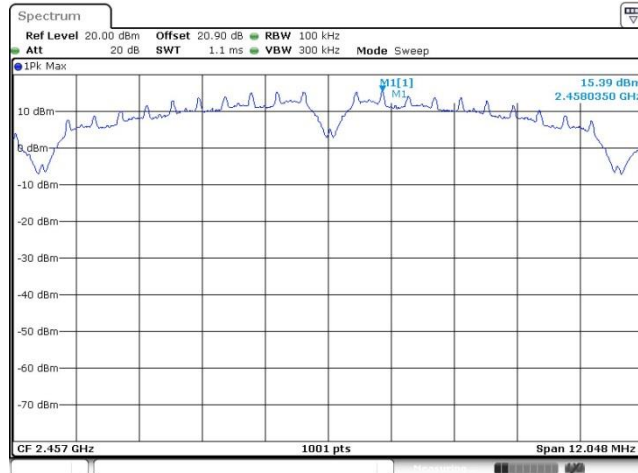


Date: 30 JUL 2019 11:16:23



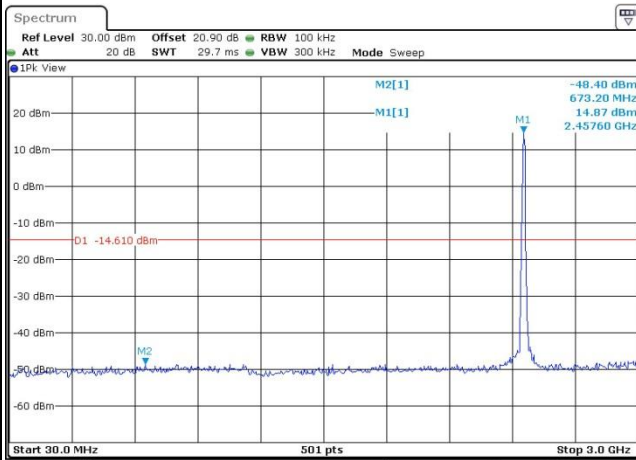
Test Mode :	802.11b	Test Channel :	10
-------------	---------	----------------	----

100kHz PSD reference Level



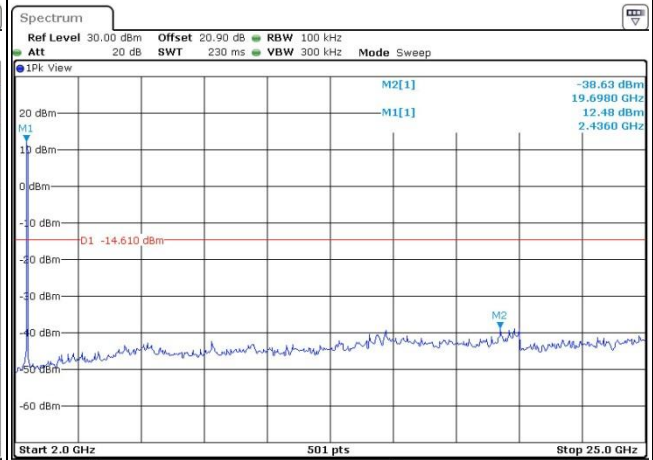
Date: 30 JUL 2019 11:34:36

Spurious Emission 30MHz~3GHz



Date: 30 JUL 2019 11:35:04

Spurious Emission 2GHz~25GHz



Date: 30 JUL 2019 11:35:26



Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----

