

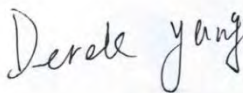
# FCC TEST REPORT

**Application No.:** ZR/2020/C0062  
**Applicant:** Sony Mobile Communications Inc.  
**Address of Applicant:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan  
**Manufacturer:** Sony Mobile Communications Inc.  
**Address of Manufacturer:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan  
**EUT Description:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC  
**Model No.:** Sony  
**FCC ID:** PY7-13951F  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
 KDB 558074 D01 v05r02  
 KDB 662911 D01 v02r01  
**Date of Receipt:** 2020/12/23  
**Date of Test:** 2020/12/23 to 2021/1/25  
**Date of Issue:** 2021/4/7

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:




Derek Yang  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-03-04		Original
02		2021-04-06		Comment Revised
03		2021-04-07		Add Average power

Authorized for issue by:			
Tested By		 <hr/> (Dee Zheng) /Project Engineer	
Checked By		 <hr/> (David Chen) /Reviewer	



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## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	B
Duty Cycle	--	--	Clause 4.3	PASS	A
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS	A
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS	A
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS	B



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Sony Mobile Communications Inc.
Address of Applicant	4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan
Manufacturer:	Sony Mobile Communications Inc.
Address of Manufacturer	4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan

#### 3.2 Test Location

##### Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057

##### Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**Lab A:**

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

**Lab B:**

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Designation Number: CN1271.



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### 3.4 General Description of EUT

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC
Trade Mark:	Sony
S/N:	005118ADNVM2
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11B (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11G (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11N (20 MHz channel bandwidth), <input type="checkbox"/> 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$ , where: $-f_c$ = "Operating Frequency" in MHz, $-N$ = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 6, <input checked="" type="checkbox"/> Ant 7
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N), <input checked="" type="checkbox"/> MIMO (for 802.11B/G/N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G/N) : Tx & Rx
Antenna Gain:	2.0dBi(ANT6); -3.0dBi(ANT7);

**Operation Frequency of each channel (802.11B/G/N HT20)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		



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**Remark:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11B/G/N (HT20)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

### 3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Modulation	Data Rate
802.11B	1Mbps
802.11G	6Mbps
802.11N HT20	MCS0

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement:  An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:  The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.0dBi.</p>	

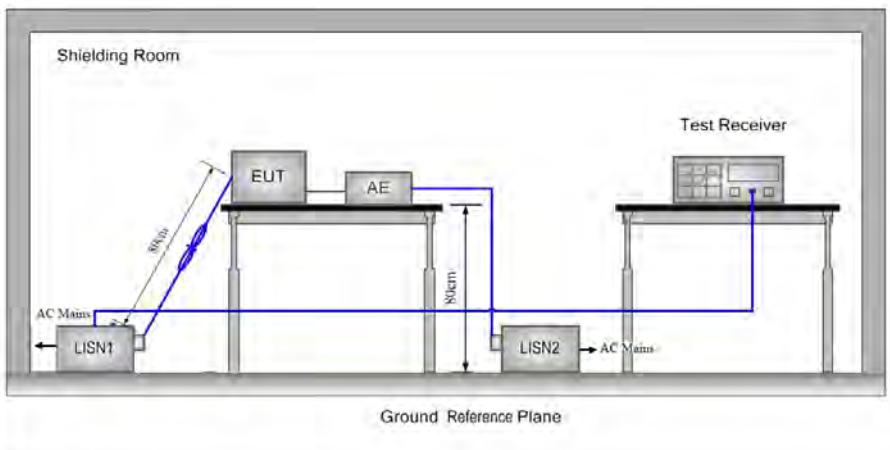


## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p>		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.                  Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case.                  Charge + Transmitting mode.                  Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>
<p>Remark:</p>	<p>The Emission Test is performed by the Lab B</p>



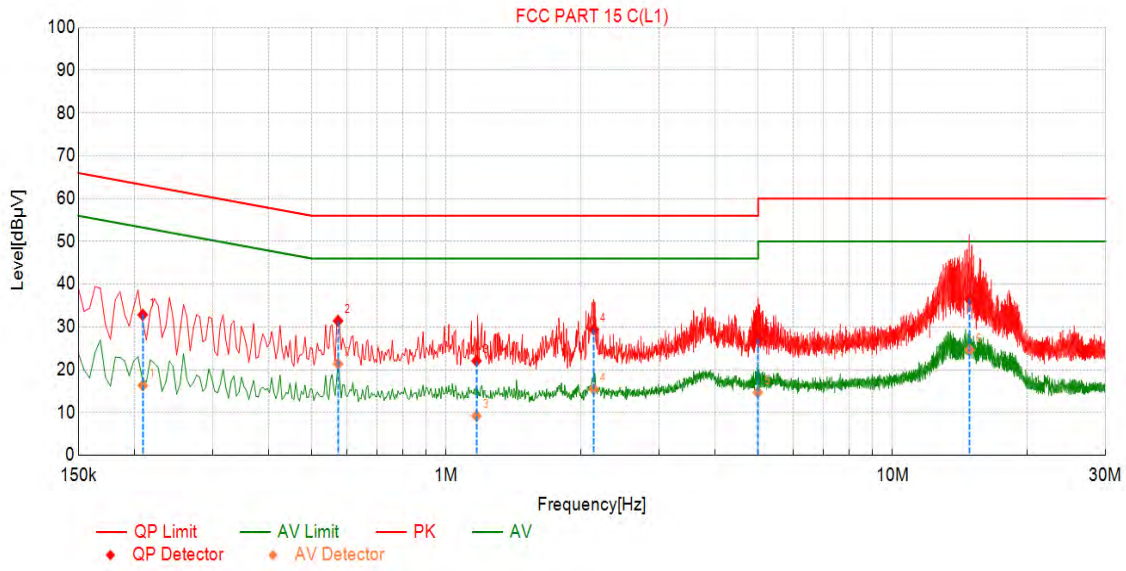
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**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:

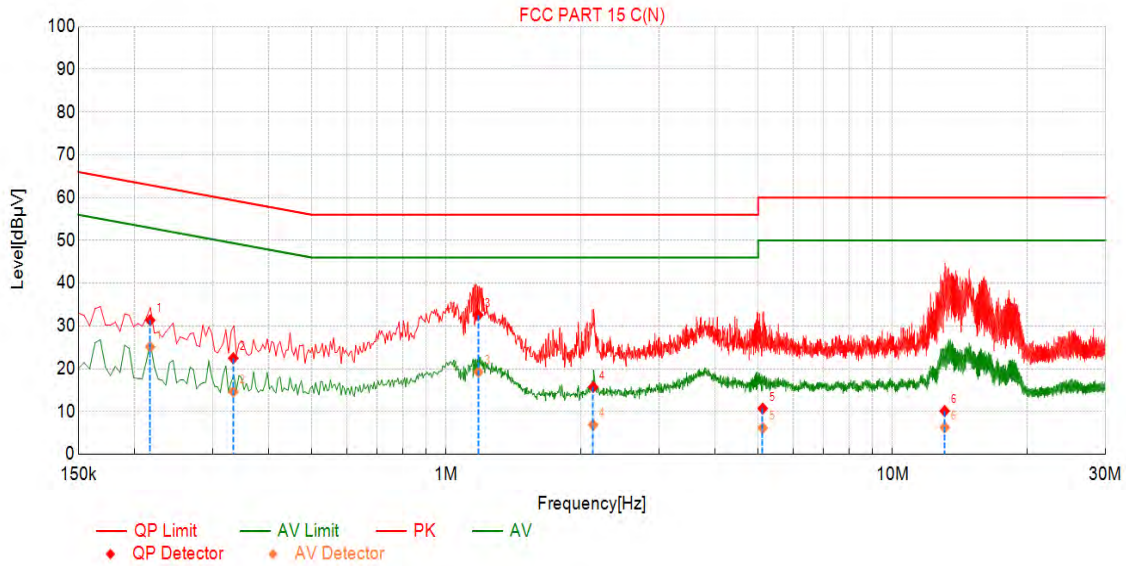


Final Data List								
NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2091	32.85	63.24	30.39	16.35	53.24	36.89	PASS
2	0.5725	31.43	56.00	24.57	21.39	46.00	24.61	PASS
3	1.1693	22.06	56.00	33.94	9.21	46.00	36.79	PASS
4	2.1402	29.43	56.00	26.57	15.45	46.00	30.55	PASS
5	4.9904	27.12	56.00	28.88	14.72	46.00	31.28	PASS
6	14.8744	36.56	60.00	23.44	24.66	50.00	25.34	PASS



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Neutral Line:



Final Data List								
NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2173	31.34	62.92	31.58	25.11	52.92	27.81	PASS
2	0.3336	22.46	59.36	36.90	14.64	49.36	34.72	PASS
3	1.1807	32.54	56.00	23.46	19.26	46.00	26.74	PASS
4	2.1348	15.72	56.00	40.28	6.89	46.00	39.11	PASS
5	5.1182	10.69	60.00	49.31	6.16	50.00	43.84	PASS
6	13.0853	10.13	60.00	49.87	6.29	50.00	43.71	PASS

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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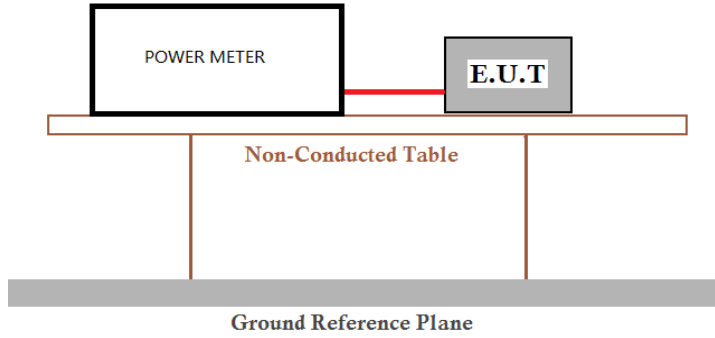
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

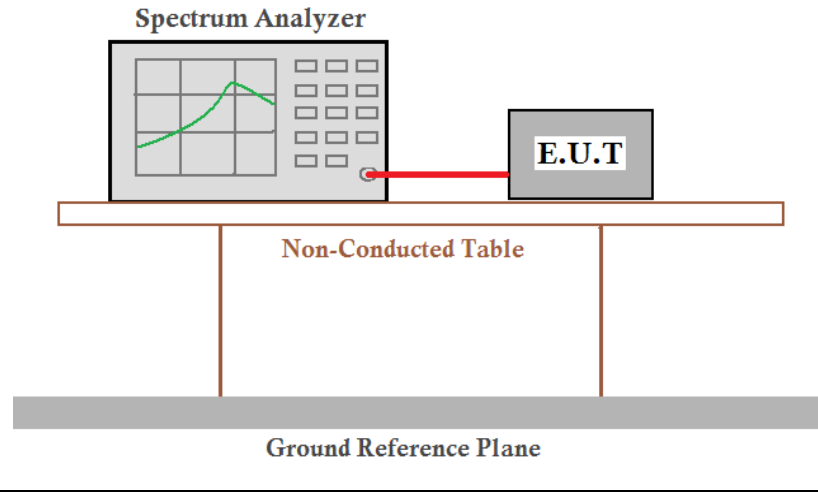
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20);
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20);
Limit:	≥ 500 kHz
Test Results:	Pass

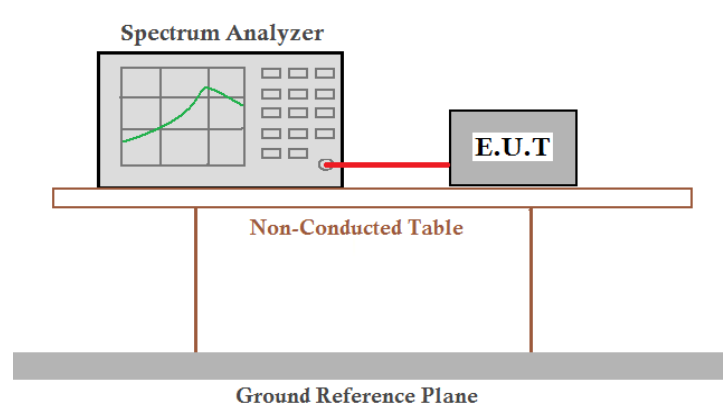
The detailed test data see: **Appendix**



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### 4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20);
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.7 Band-edge for RF Conducted Emissions

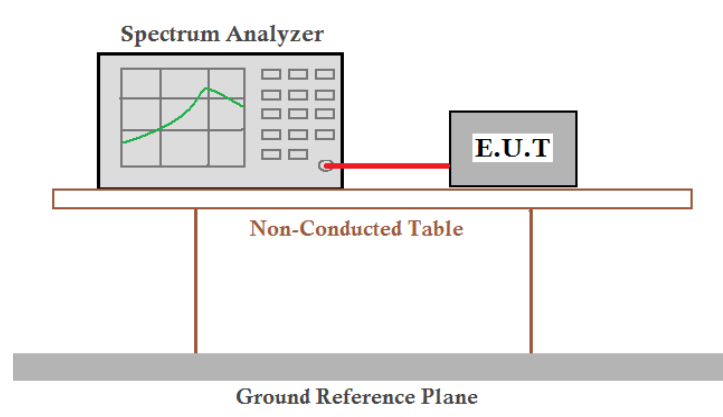
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20);
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20);
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100kHz	30kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz (DC≥0.98) ≥1/T (DC<0.98)	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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<p><b>Test Setup:</b></p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p><b>Test Procedure:</b></p>	<ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT</li> </ol>



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	<p>would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>MCS0 of rate is the worst case of 802.11N(HT20);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
Remark:	The Emission Test is performed by the Lab B

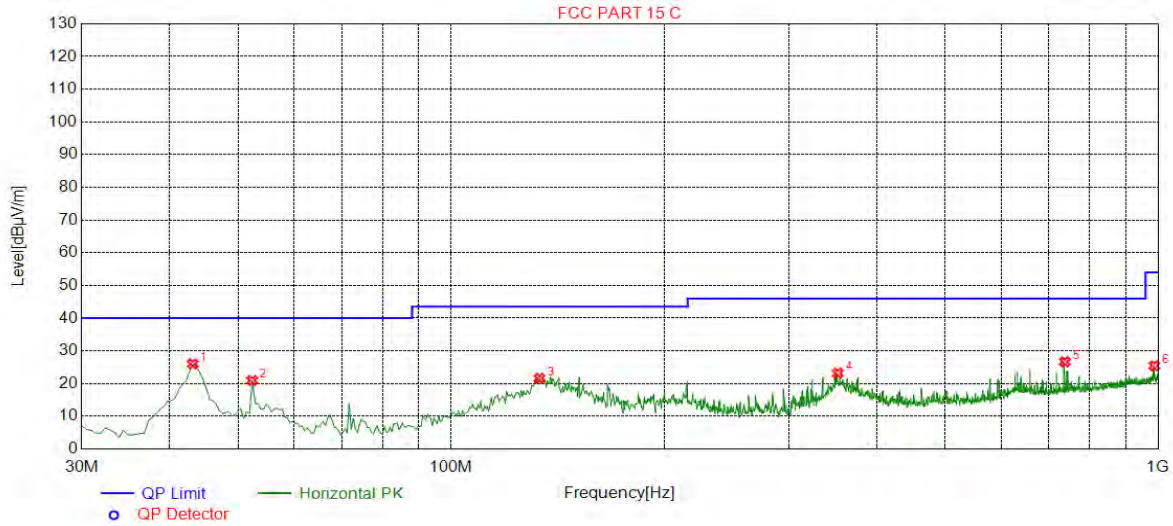


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### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.1016	26.05	-30.57	40.00	13.95	150	109	Horizontal
2	52.3212	20.95	-30.53	40.00	19.05	150	359	Horizontal
3	133.356	21.61	-34.92	43.50	21.89	150	191	Horizontal
4	352.201	23.21	-26.28	46.00	22.79	150	214	Horizontal
5	737.969	26.67	-17.75	46.00	19.33	150	162	Horizontal
6	987.868	25.46	-14.02	54.00	28.54	150	160	Horizontal

#### Final Data List

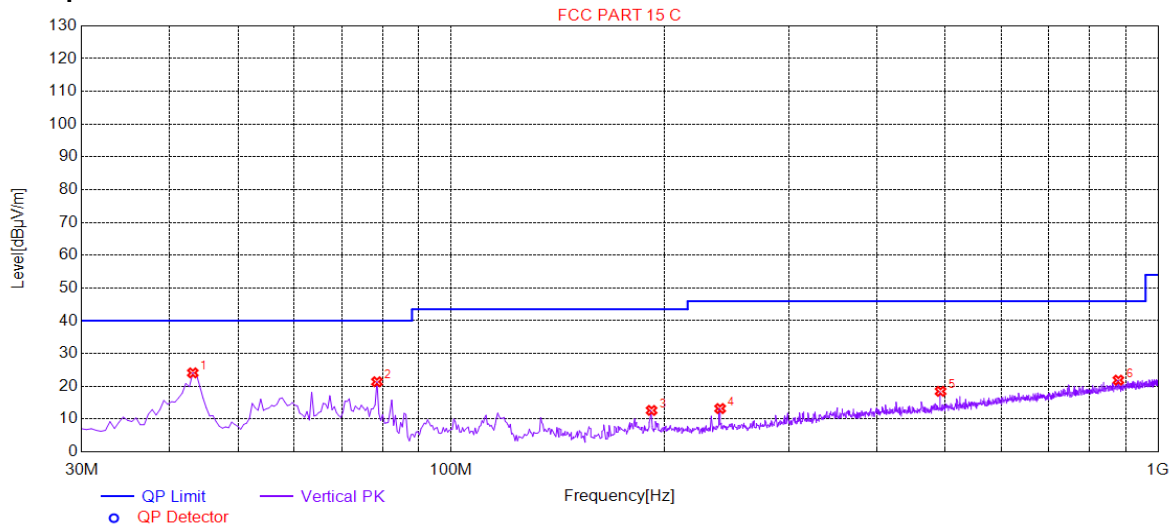


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### Test Graph



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.1016	24.11	-30.57	40.00	15.89	150	82	Vertical
2	78.5243	21.40	-35.63	40.00	18.60	150	344	Vertical
3	192.071	12.65	-31.66	43.50	30.85	150	117	Vertical
4	240.110	13.22	-29.60	46.00	32.78	150	259	Vertical
5	492.436	18.47	-22.88	46.00	27.53	150	206	Vertical
6	878.689	21.88	-15.58	46.00	24.12	150	180	Vertical

### Final Data List



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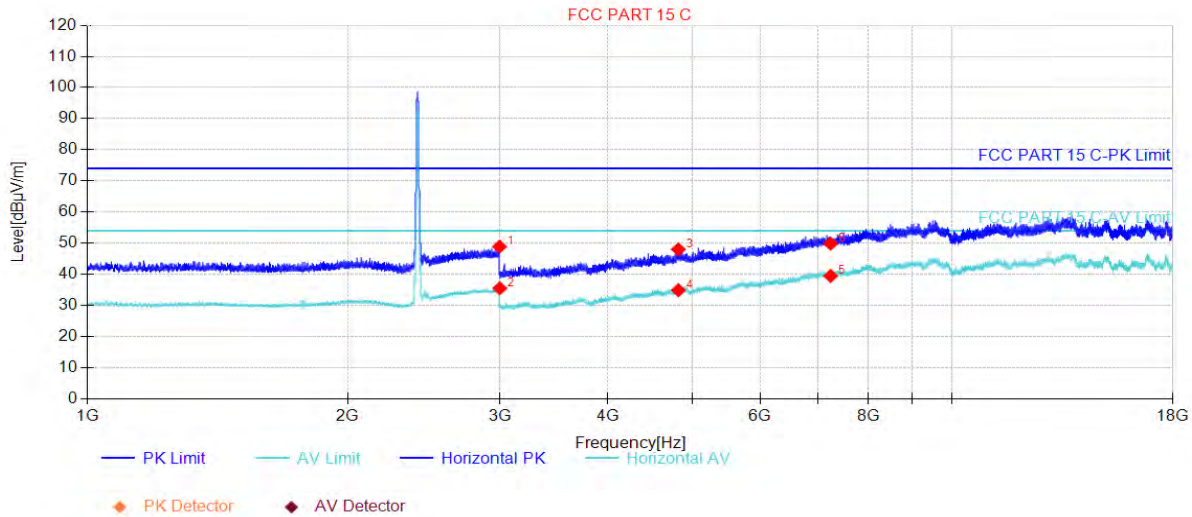
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### 4.9.2 Transmitter emission above 1GHz

#### 4.9.2.1 802.11B\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2996.599	48.87	7.39	74.00	25.13	293	Horizontal
2	2998.199	35.47	7.40	54.00	18.53	102	Horizontal
3	4824.000	47.98	-10.56	74.00	26.02	284	Horizontal
4	4824.000	34.86	-10.56	54.00	19.14	253	Horizontal
5	7236.000	39.44	-2.59	54.00	14.56	262	Horizontal
6	7236.000	49.85	-2.59	74.00	24.15	134	Horizontal

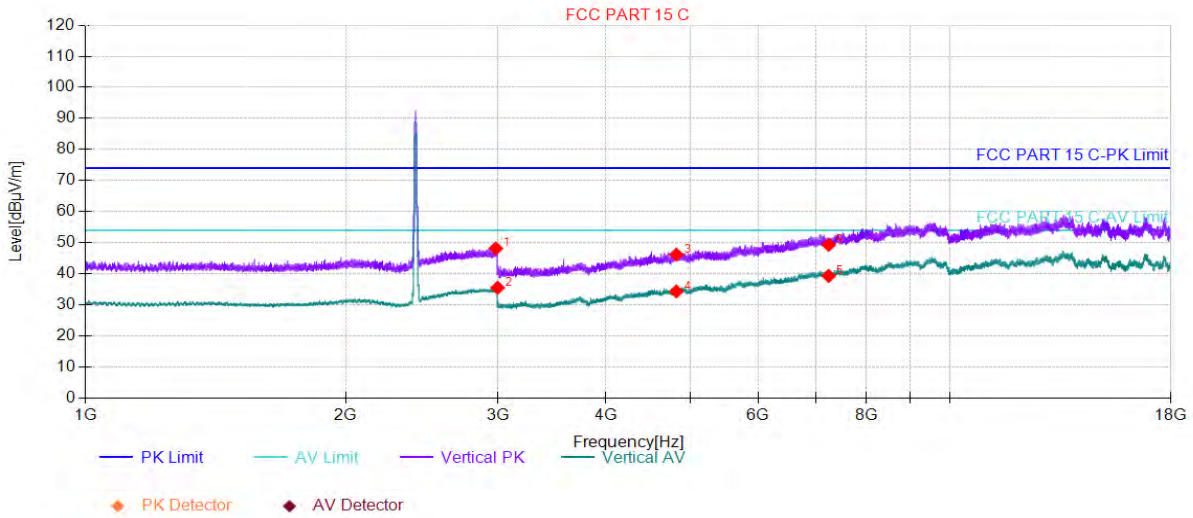
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4.9.2.2 802.11B\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.998	48.13	7.33	74.00	25.87	341	Vertical
2	2996.999	35.46	7.40	54.00	18.54	160	Vertical
3	4824.000	46.15	-10.56	74.00	27.85	356	Vertical
4	4824.000	34.28	-10.56	54.00	19.72	194	Vertical
5	7236.000	39.29	-2.59	54.00	14.71	365	Vertical
6	7236.000	49.29	-2.59	74.00	24.71	298	Vertical

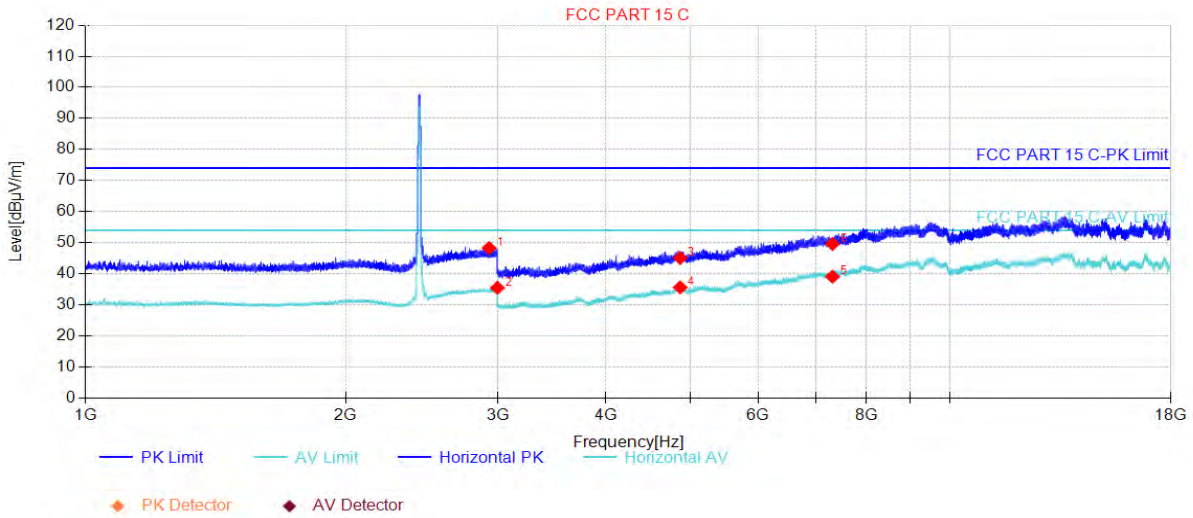
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4.9.2.3 802.11B\_Channel 6 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2929.593	48.27	7.09	74.00	25.73	391	Horizontal
2	2995.399	35.44	7.39	54.00	18.56	372	Horizontal
3	4874.000	45.06	-10.40	74.00	28.94	124	Horizontal
4	4874.000	35.55	-10.40	54.00	18.45	344	Horizontal
5	7311.000	39.06	-2.58	54.00	14.94	127	Horizontal
6	7311.000	49.59	-2.58	74.00	24.41	285	Horizontal

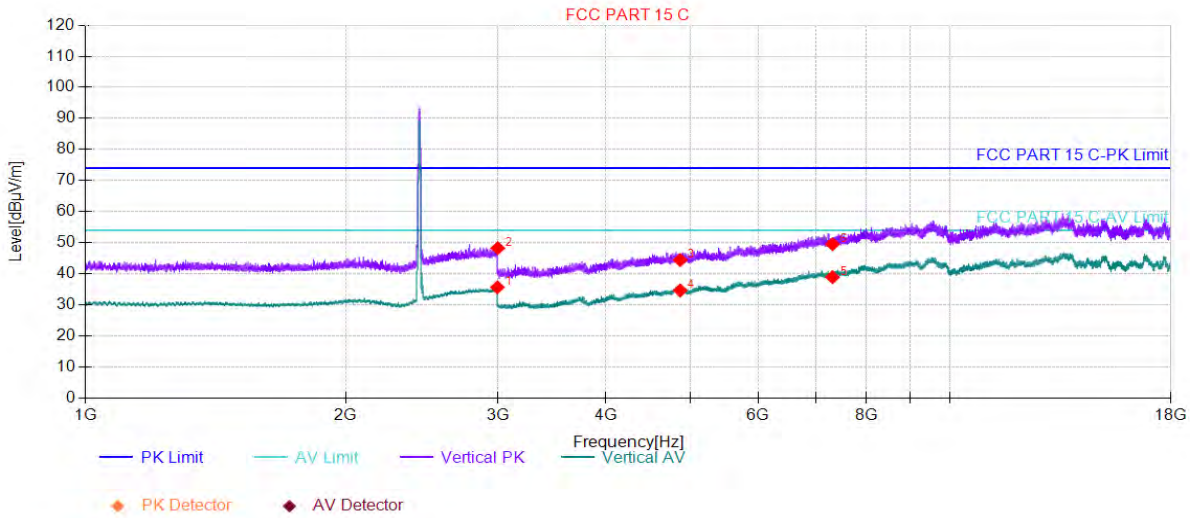
Final Data List



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**4.9.2.4 802.11B\_Channel 6 MIMO**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.199	35.61	7.39	54.00	18.39	149	Vertical
2	2998.399	48.23	7.40	74.00	25.77	295	Vertical
3	4874.000	44.39	-10.40	74.00	29.61	173	Vertical
4	4874.000	34.61	-10.40	54.00	19.39	285	Vertical
5	7311.000	38.89	-2.58	54.00	15.11	206	Vertical
6	7311.000	49.51	-2.58	74.00	24.49	173	Vertical

**Final Data List**

*(This section is intentionally left blank in the provided image.)*

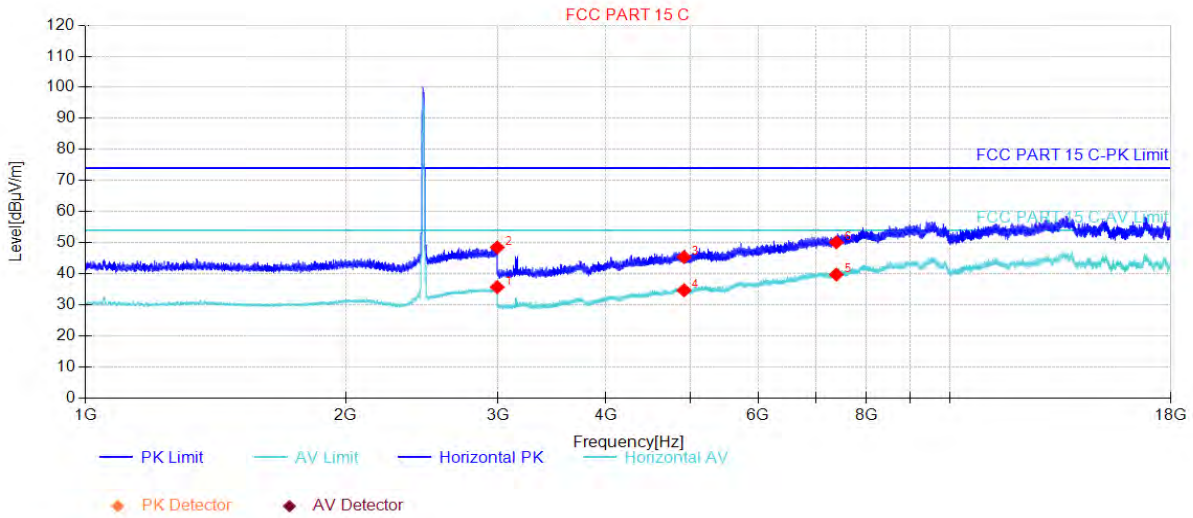


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4.9.2.5 802.11B\_Channel 11 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.999	35.66	7.38	54.00	18.34	145	Horizontal
2	2994.199	48.45	7.38	74.00	25.55	302	Horizontal
3	4924.000	45.33	-10.22	74.00	28.67	372	Horizontal
4	4924.000	34.65	-10.22	54.00	19.35	225	Horizontal
5	7386.000	39.70	-2.06	54.00	14.30	365	Horizontal
6	7386.000	50.09	-2.06	74.00	23.91	172	Horizontal

Final Data List

(This area is intentionally left blank for the final data list.)

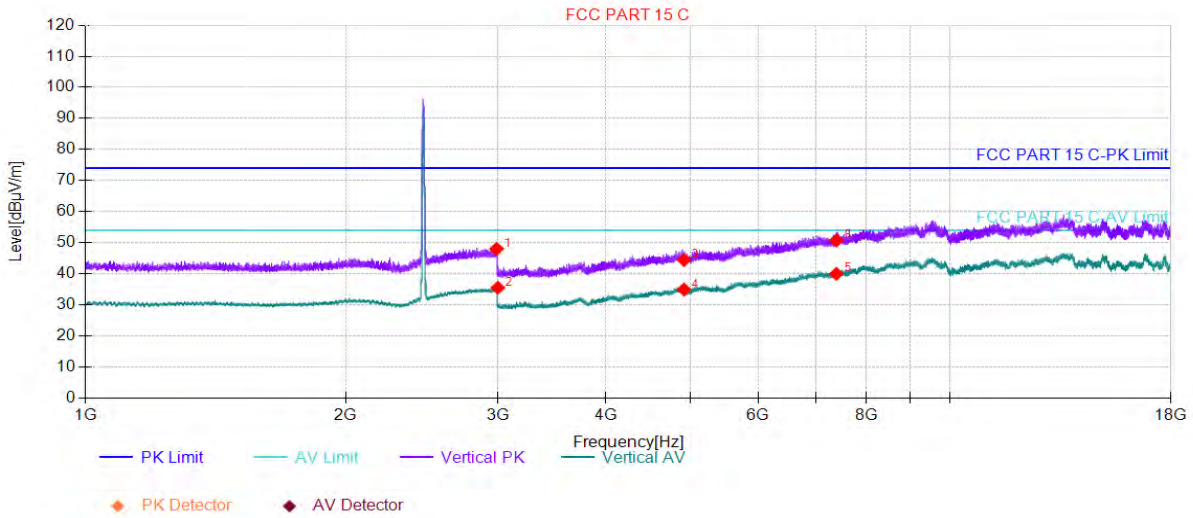


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4.9.2.6 802.11B\_Channel 11 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2989.398	47.97	7.36	74.00	26.03	182	Vertical
2	2998.999	35.48	7.41	54.00	18.52	289	Vertical
3	4924.000	44.42	-10.22	74.00	29.58	159	Vertical
4	4924.000	34.88	-10.22	54.00	19.12	338	Vertical
5	7386.000	39.95	-2.06	54.00	14.05	163	Vertical
6	7386.000	50.69	-2.06	74.00	23.31	220	Vertical

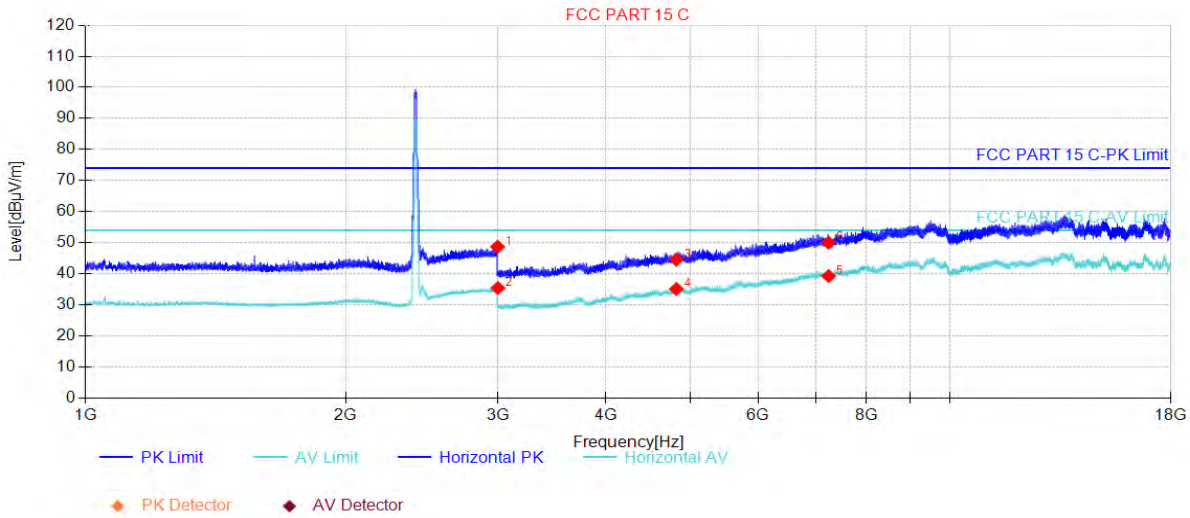
Final Data List



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### 4.9.2.7 802.11G\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2996.799	48.65	7.40	74.00	25.35	303	Horizontal
2	2999.399	35.38	7.41	54.00	18.62	297	Horizontal
3	4824.000	44.52	-10.56	74.00	29.48	172	Horizontal
4	4824.000	35.06	-10.56	54.00	18.94	384	Horizontal
5	7236.000	39.23	-2.59	54.00	14.77	167	Horizontal
6	7236.000	50.00	-2.59	74.00	24.00	205	Horizontal

#### Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2996.799	48.65	7.40	74.00	25.35	303	Horizontal
2	2999.399	35.38	7.41	54.00	18.62	297	Horizontal
3	4824.000	44.52	-10.56	74.00	29.48	172	Horizontal
4	4824.000	35.06	-10.56	54.00	18.94	384	Horizontal
5	7236.000	39.23	-2.59	54.00	14.77	167	Horizontal
6	7236.000	50.00	-2.59	74.00	24.00	205	Horizontal

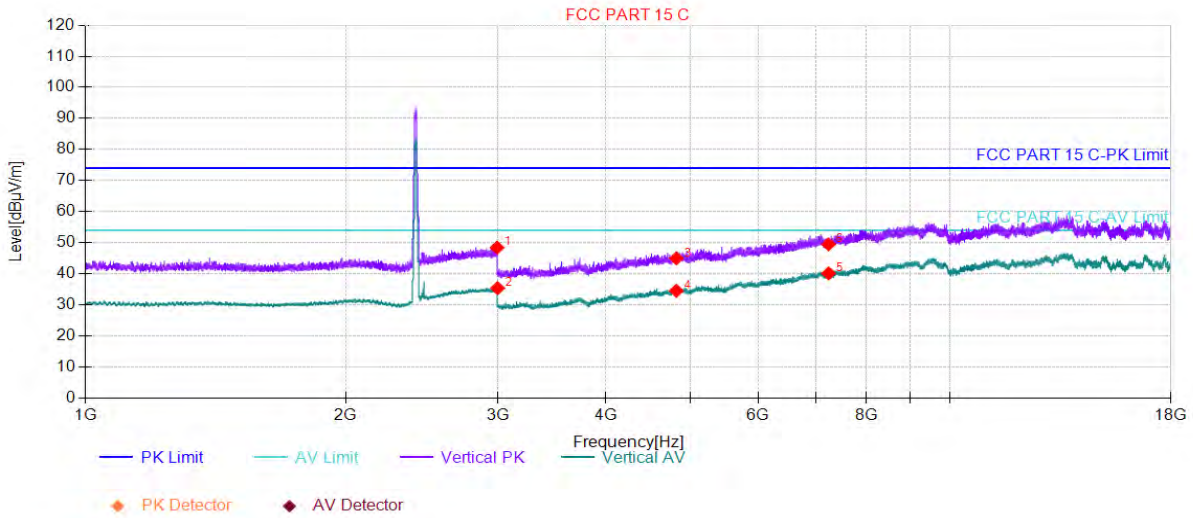


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4.9.2.8 802.11G\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.399	48.39	7.38	74.00	25.61	390	Vertical
2	2997.199	35.34	7.40	54.00	18.66	331	Vertical
3	4824.000	44.93	-10.56	74.00	29.07	161	Vertical
4	4824.000	34.50	-10.56	54.00	19.50	113	Vertical
5	7236.000	40.11	-2.59	54.00	13.89	268	Vertical
6	7236.000	49.46	-2.59	74.00	24.54	131	Vertical

Final Data List



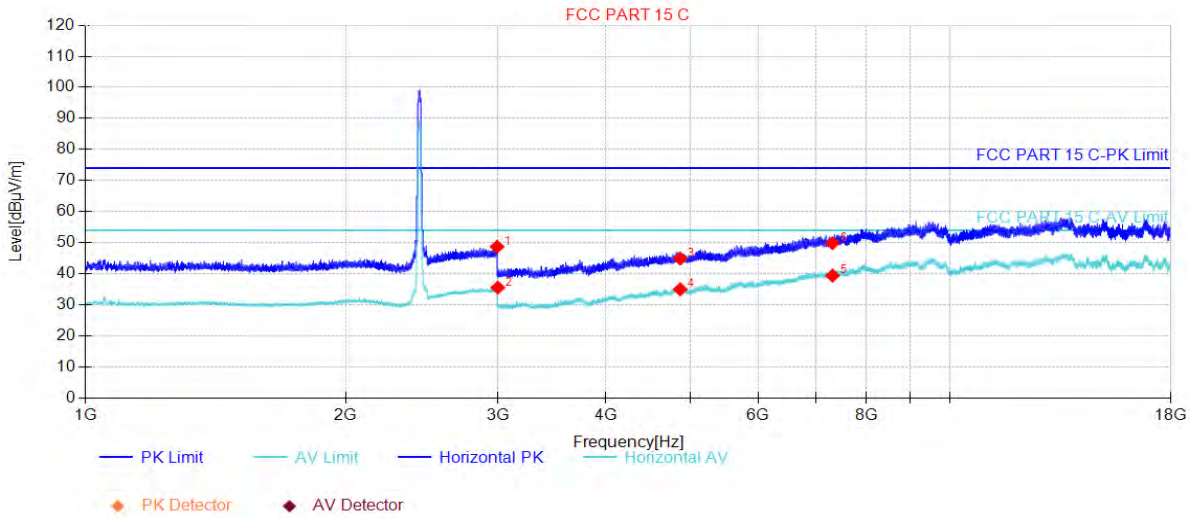
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4.9.2.9 802.11G\_Channel 6 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.199	48.66	7.37	74.00	25.34	327	Horizontal
2	2998.399	35.51	7.40	54.00	18.49	228	Horizontal
3	4874.000	44.85	-10.40	74.00	29.15	144	Horizontal
4	4874.000	34.95	-10.40	54.00	19.05	134	Horizontal
5	7311.000	39.38	-2.58	54.00	14.62	389	Horizontal
6	7311.000	49.84	-2.58	74.00	24.16	142	Horizontal

Final Data List

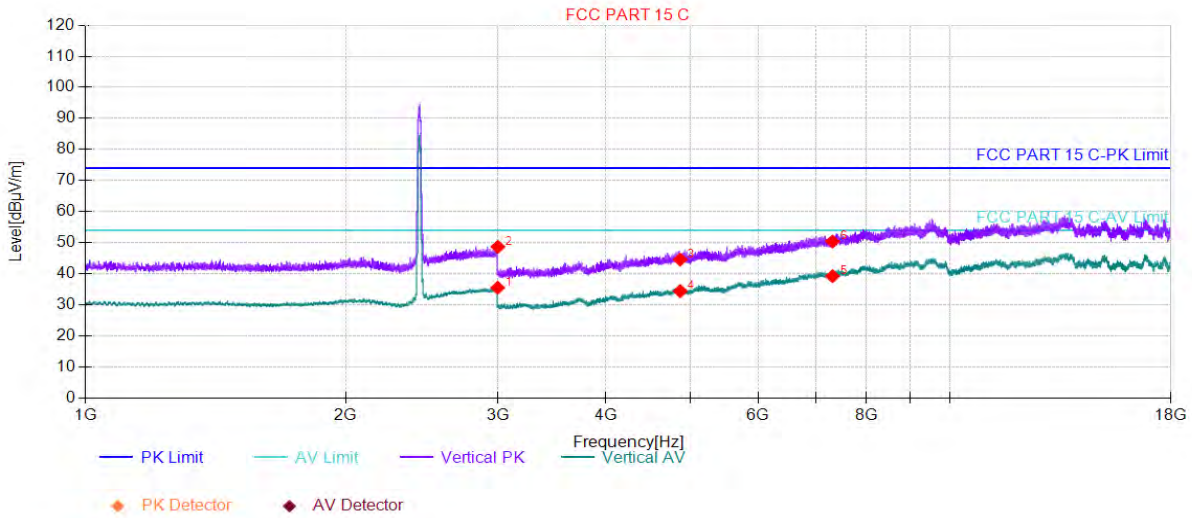


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4.9.2.10 802.11G\_Channel 6 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2997.399	35.46	7.40	54.00	18.54	352	Vertical
2	2999.199	48.65	7.41	74.00	25.35	264	Vertical
3	4874.000	44.54	-10.40	74.00	29.46	316	Vertical
4	4874.000	34.36	-10.40	54.00	19.64	135	Vertical
5	7311.000	39.18	-2.58	54.00	14.82	336	Vertical
6	7311.000	50.36	-2.58	74.00	23.64	316	Vertical

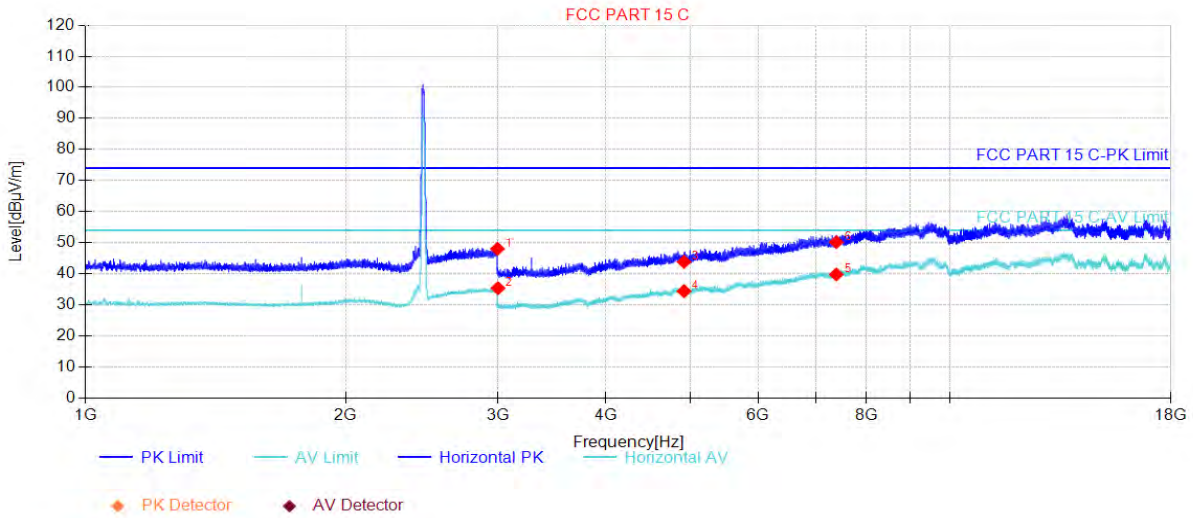
Final Data List



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4.9.2.11 802.11G\_Channel 11 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.999	47.99	7.39	74.00	26.01	130	Horizontal
2	2999.800	35.33	7.41	54.00	18.67	265	Horizontal
3	4924.000	43.80	-10.22	74.00	30.20	335	Horizontal
4	4924.000	34.35	-10.22	54.00	19.65	264	Horizontal
5	7386.000	39.75	-2.06	54.00	14.25	155	Horizontal
6	7386.000	50.17	-2.06	74.00	23.83	372	Horizontal

Final Data List

(This section is intentionally left blank in the provided image.)

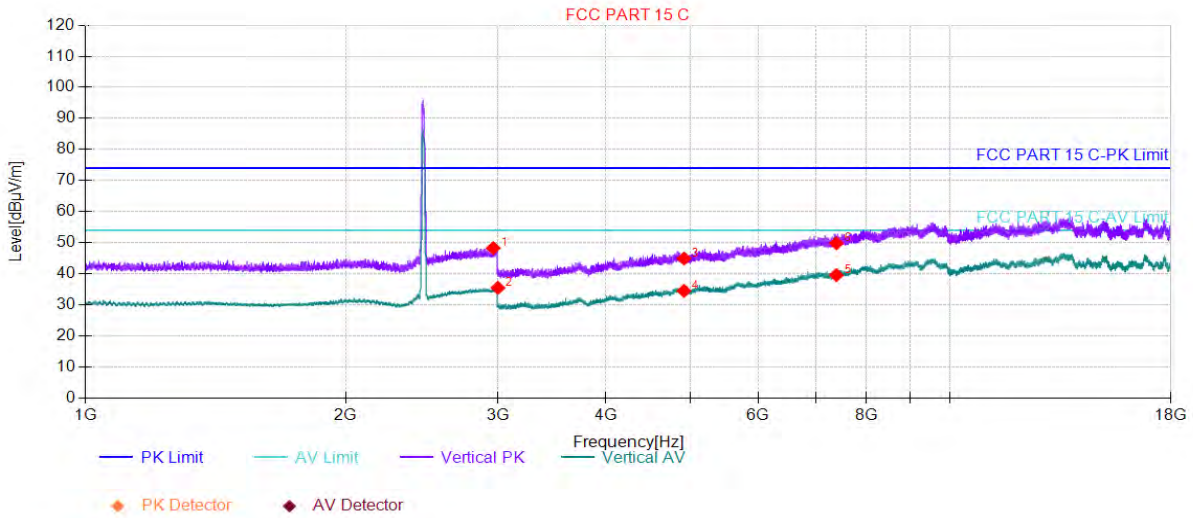


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4.9.2.12 802.11G\_Channel 11 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2962.196	48.23	7.24	74.00	25.77	270	Vertical
2	2999.600	35.45	7.41	54.00	18.55	267	Vertical
3	4924.000	44.87	-10.22	74.00	29.13	159	Vertical
4	4924.000	34.48	-10.22	54.00	19.52	283	Vertical
5	7386.000	39.53	-2.06	54.00	14.47	263	Vertical
6	7386.000	49.78	-2.06	74.00	24.22	223	Vertical

Final Data List

(This area is intentionally left blank in the original document.)

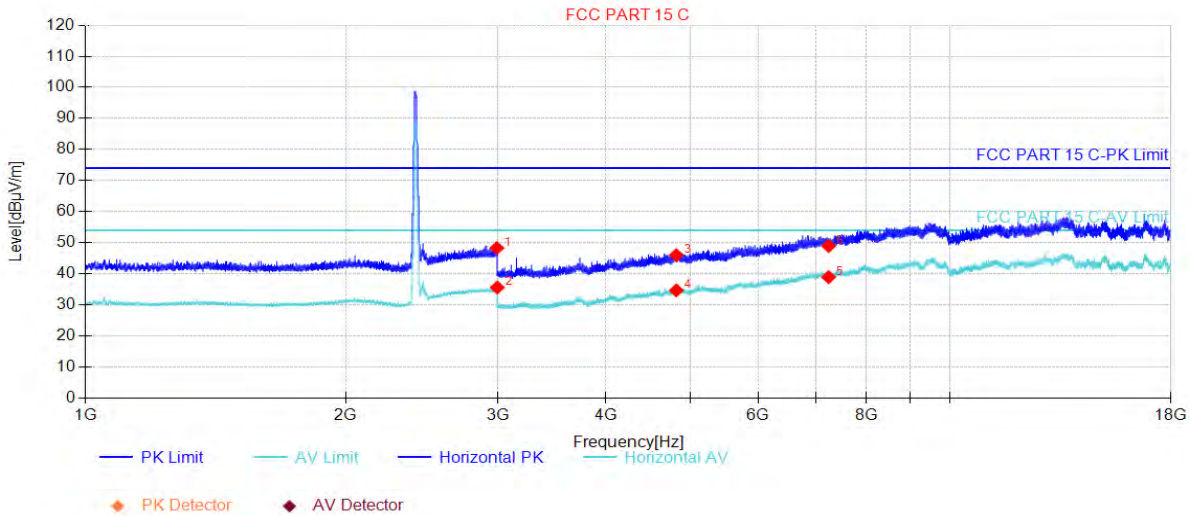


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4.9.2.13 802.11N20\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.999	48.26	7.37	74.00	25.74	116	Horizontal
2	2994.199	35.55	7.38	54.00	18.45	308	Horizontal
3	4824.000	45.96	-10.56	74.00	28.04	109	Horizontal
4	4824.000	34.63	-10.56	54.00	19.37	299	Horizontal
5	7236.000	38.90	-2.59	54.00	15.10	143	Horizontal
6	7236.000	48.94	-2.59	74.00	25.06	264	Horizontal

Final Data List

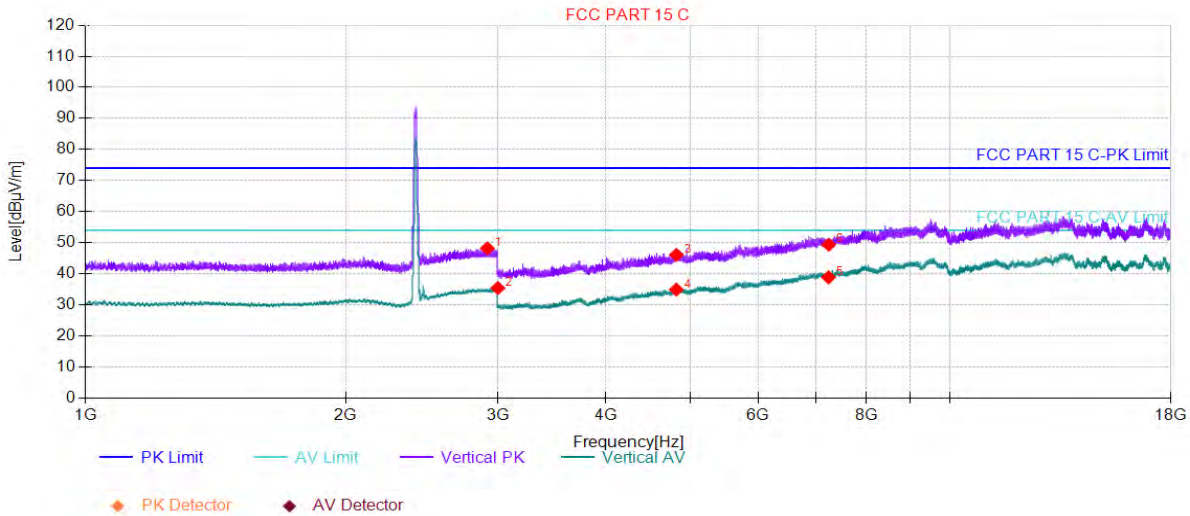
(This section is intentionally left blank in the provided image.)



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4.9.2.14 802.11N20\_Channel 1 MIMO

Test Graph



Suspected List

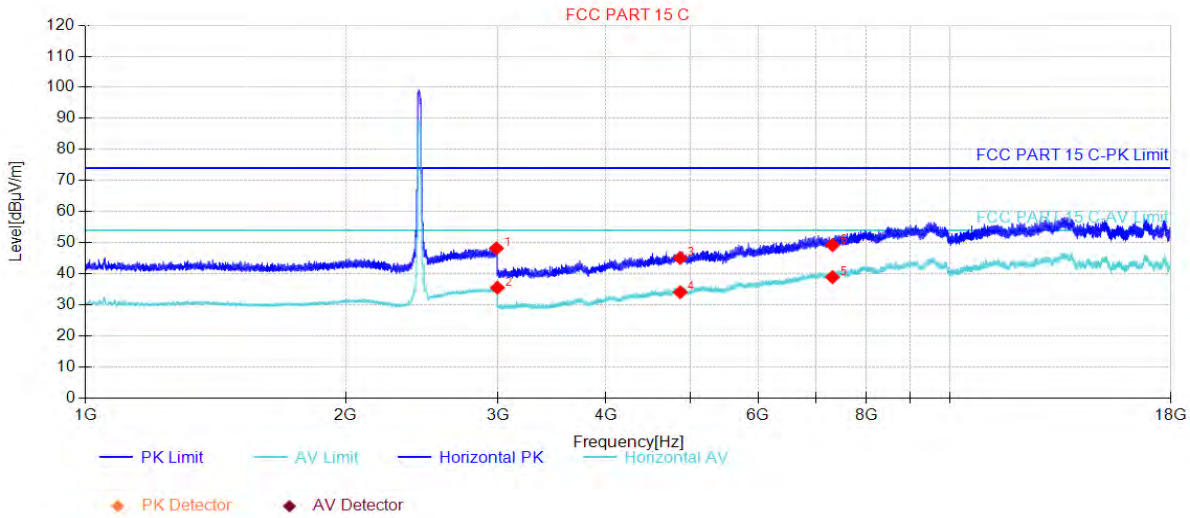
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2916.791	48.16	7.03	74.00	25.84	293	Vertical
2	2998.599	35.37	7.40	54.00	18.63	143	Vertical
3	4824.000	46.05	-10.56	74.00	27.95	339	Vertical
4	4824.000	34.87	-10.56	54.00	19.13	129	Vertical
5	7236.000	38.81	-2.59	54.00	15.19	218	Vertical
6	7236.000	49.33	-2.59	74.00	24.67	139	Vertical

Final Data List

(This section is intentionally left blank in the provided image.)

4.9.2.15 802.11N20\_Channel 6 MIMO

Test Graph



Suspected List

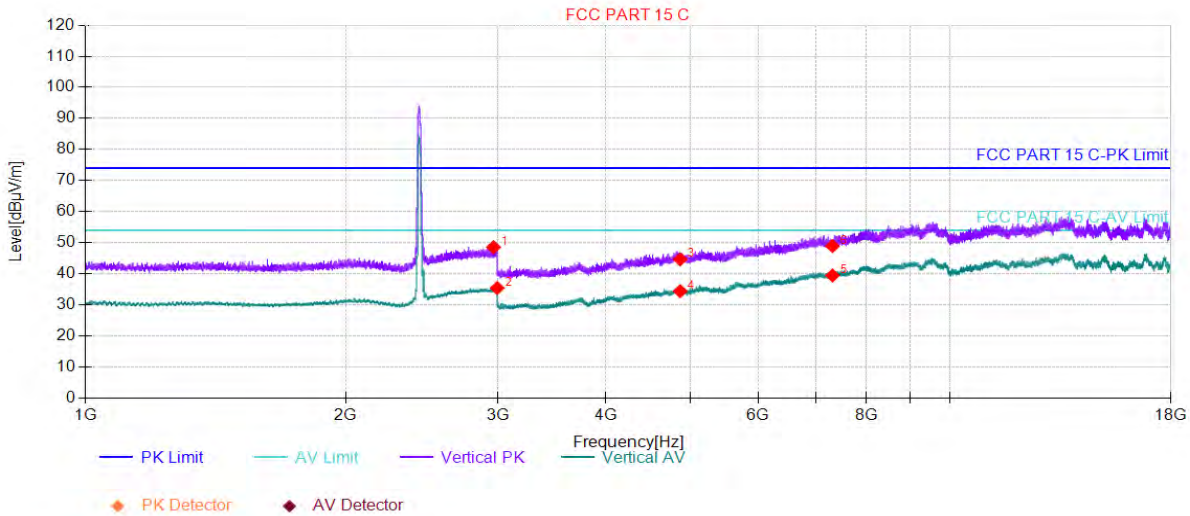
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.798	48.16	7.35	74.00	25.84	205	Horizontal
2	2995.399	35.49	7.39	54.00	18.51	175	Horizontal
3	4874.000	45.04	-10.40	74.00	28.96	191	Horizontal
4	4874.000	34.03	-10.40	54.00	19.97	395	Horizontal
5	7311.000	38.91	-2.58	54.00	15.09	125	Horizontal
6	7311.000	49.21	-2.58	74.00	24.79	355	Horizontal

Final Data List

(This area is intentionally left blank for the final data list.)

**4.9.2.16 802.11N20\_Channel 6 MIMO**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2964.396	48.52	7.25	74.00	25.48	220	Vertical
2	2993.599	35.38	7.38	54.00	18.62	109	Vertical
3	4874.000	44.67	-10.40	74.00	29.33	393	Vertical
4	4874.000	34.34	-10.40	54.00	19.66	230	Vertical
5	7311.000	39.42	-2.58	54.00	14.58	309	Vertical
6	7311.000	48.91	-2.58	74.00	25.09	368	Vertical

**Final Data List**

*(This section is intentionally left blank in the provided image.)*



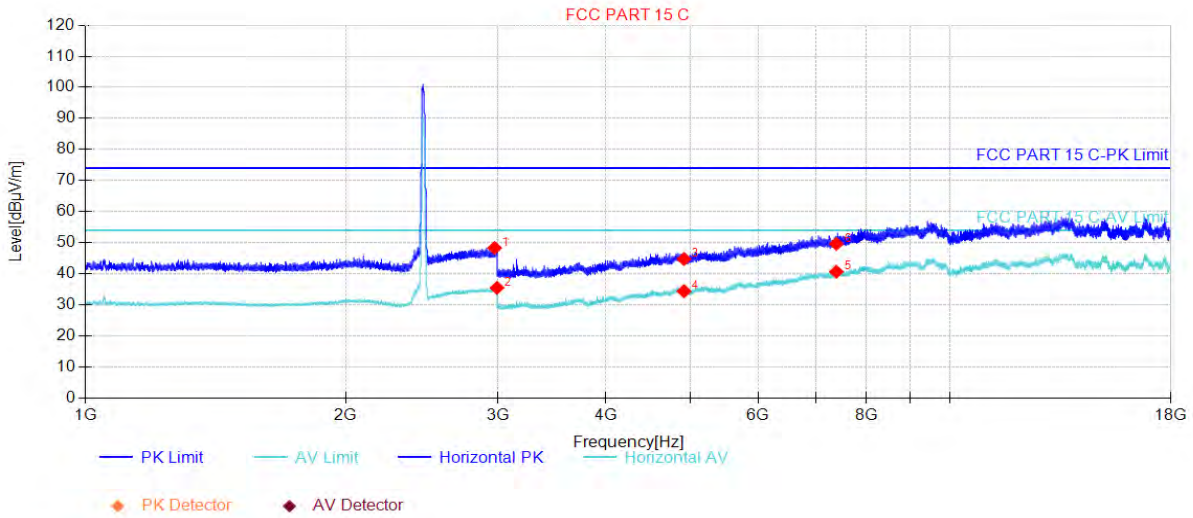
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4.9.2.17 802.11N20\_Channel 11 MIMO

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2973.397	48.27	7.29	74.00	25.73	272	Horizontal
2	2992.199	35.43	7.37	54.00	18.57	310	Horizontal
3	4924.000	44.73	-10.22	74.00	29.27	148	Horizontal
4	4924.000	34.33	-10.22	54.00	19.67	388	Horizontal
5	7386.000	40.62	-2.06	54.00	13.38	107	Horizontal
6	7386.000	49.62	-2.06	74.00	24.38	189	Horizontal

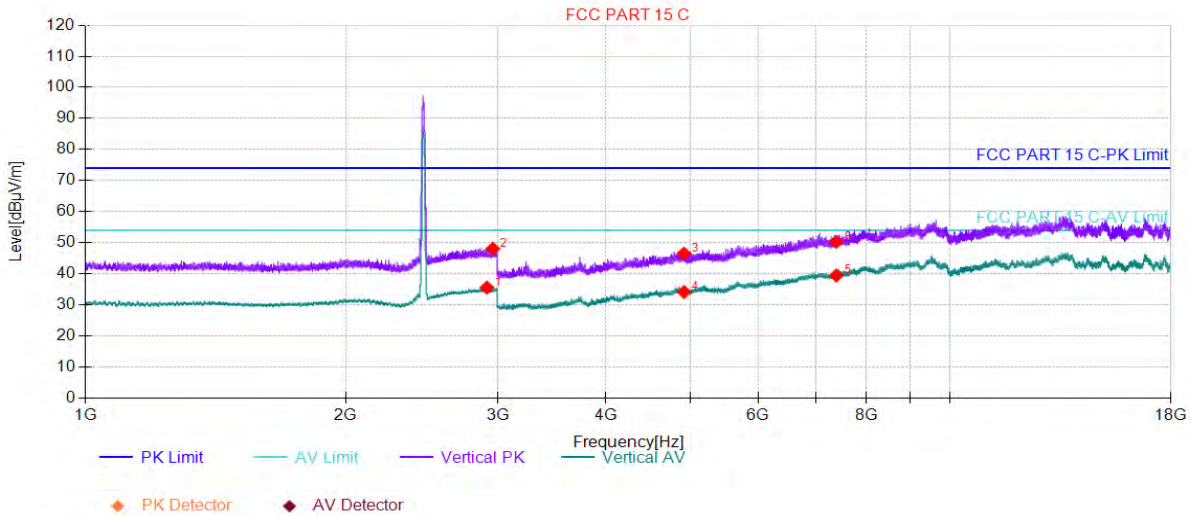
Final Data List



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**4.9.2.18 802.11N20\_Channel 11 MIMO**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	2912.791	35.47	7.01	54.00	18.53	114	Vertical
2	2959.596	48.04	7.22	74.00	25.96	268	Vertical
3	4924.000	46.46	-10.22	74.00	27.54	178	Vertical
4	4924.000	34.08	-10.22	54.00	19.92	272	Vertical
5	7386.000	39.42	-2.06	54.00	14.58	353	Vertical
6	7386.000	50.25	-2.06	74.00	23.75	376	Vertical

**Final Data List**

**Remark:**

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- All Modes have been tested, but only the worst case data displayed in this report.



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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
Above 1GHz		54.0	Average Value
		74.0	Peak Value
Test Setup:			

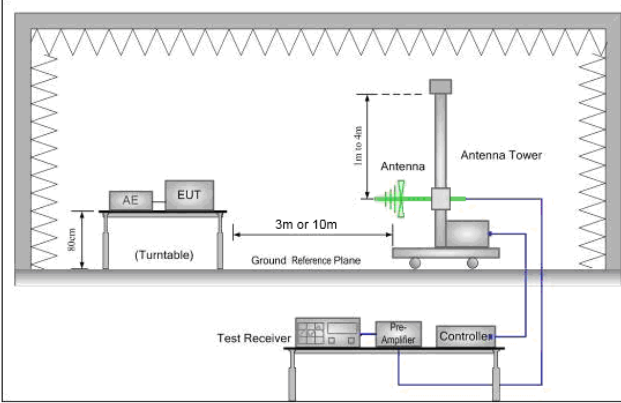


Figure 1. 30MHz to 1GHz

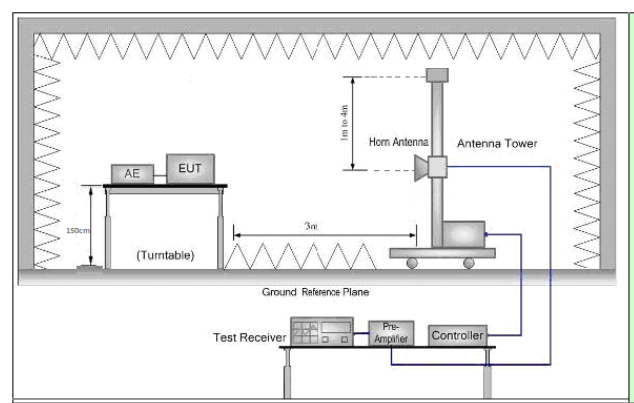


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.          Charge + Transmitting mode.</p>



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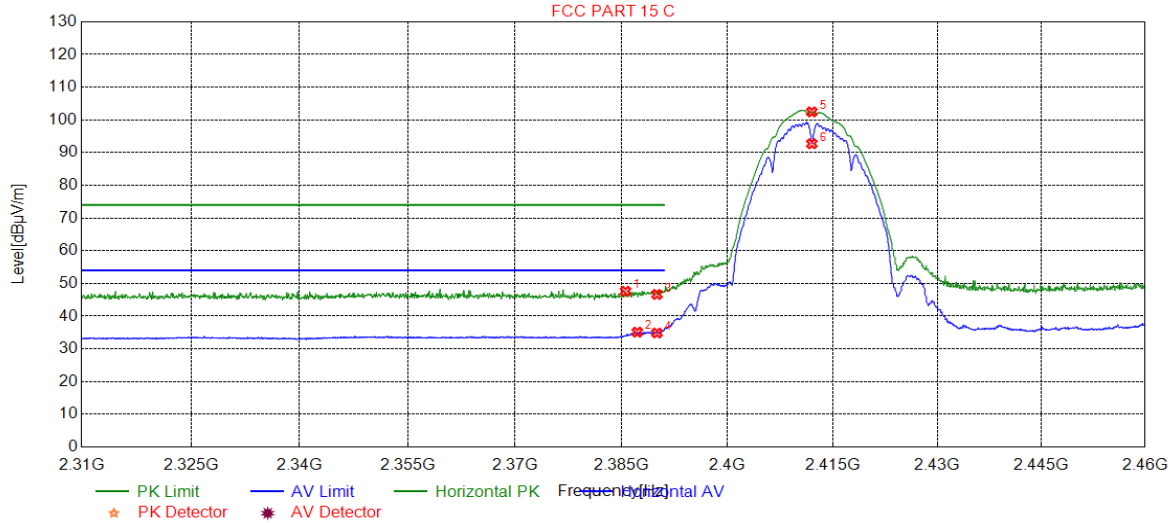
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; MCS0 of rate is the worst case of 802.11N(HT20); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
Remark:	The Emission Test is performed by the Lab B



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**4.10.1 Test Plots**  
**4.10.1.1 802.11B\_Channel 1 MIMO**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.56	47.62	7.85	74.00	26.38	333	227	Horizontal
2	2387.21	35.12	7.90	54.00	18.88	350	238	Horizontal
3	2390.00	46.65	7.98	74.00	27.35	114	32	Horizontal
4	2390.00	34.86	7.98	54.00	19.14	129	168	Horizontal
5	2412.00	102.47	8.16	0.00	-102.47	136	216	Horizontal
6	2412.00	92.73	8.16	0.00	-92.73	235	227	Horizontal

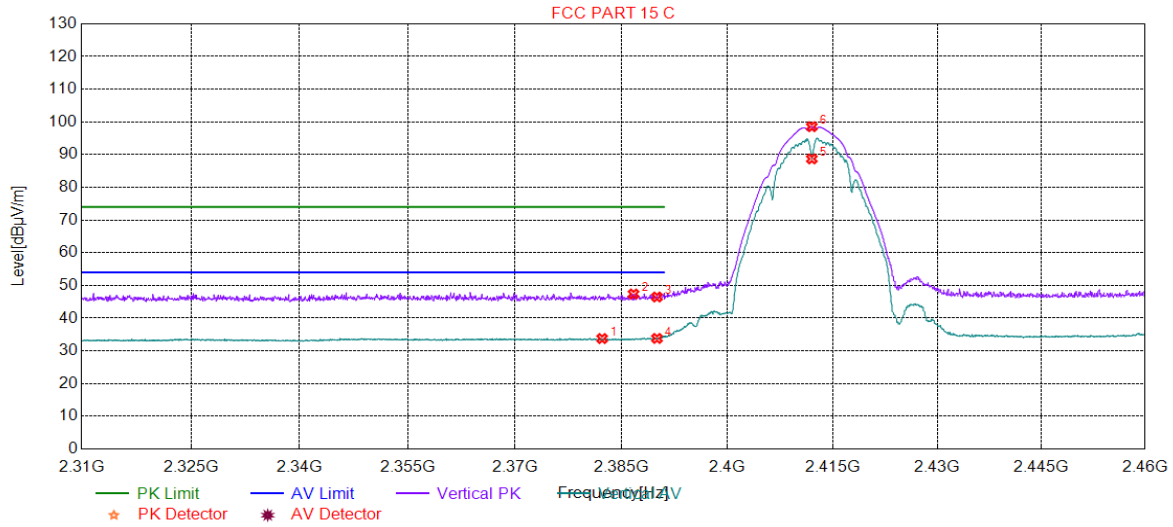
**Final Data List**



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4.10.1.2 802.11B\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.26	33.78	7.92	54.00	20.22	323	346	Vertical
2	2386.68	47.39	7.88	74.00	26.61	235	64	Vertical
3	2390.00	46.49	7.98	74.00	27.51	316	298	Vertical
4	2390.00	33.82	7.98	54.00	20.18	325	298	Vertical
5	2412.00	88.71	8.16	0.00	-88.71	246	241	Vertical
6	2412.00	98.56	8.16	0.00	-98.56	356	241	Vertical

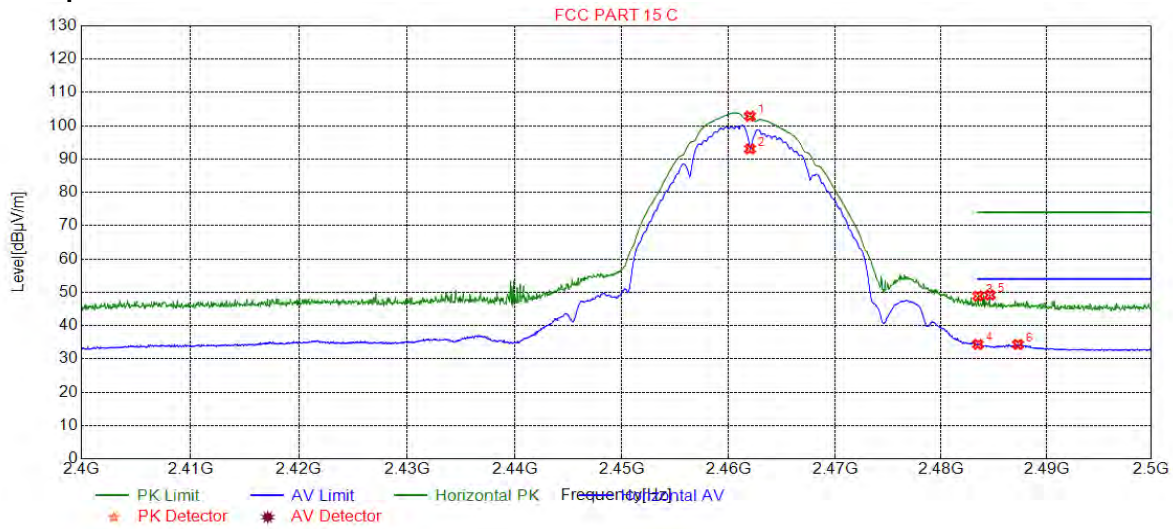
Final Data List



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### 4.10.1.3 802.11B\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	102.85	8.75	0.00	-102.85	300	168	Horizontal
2	2462.00	93.04	8.75	0.00	-93.04	174	168	Horizontal
3	2483.50	48.91	8.50	74.00	25.09	252	168	Horizontal
4	2483.50	34.39	8.50	54.00	19.61	237	228	Horizontal
5	2484.64	49.21	8.49	74.00	24.79	142	32	Horizontal
6	2487.29	34.36	8.55	54.00	19.64	394	224	Horizontal

#### Final Data List

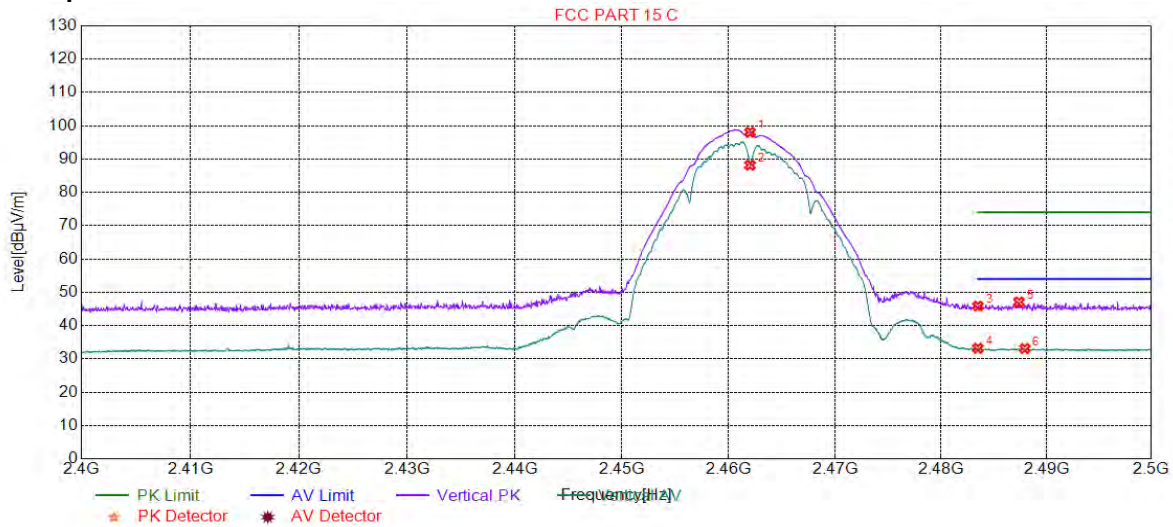


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4.10.1.4 802.11B\_Channel 11 MIMO

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.06	8.75	0.00	-98.06	398	298	Vertical
2	2462.00	88.18	8.75	0.00	-88.18	227	298	Vertical
3	2483.50	45.88	8.50	74.00	28.12	167	140	Vertical
4	2483.50	33.23	8.50	54.00	20.77	209	264	Vertical
5	2487.39	47.13	8.55	74.00	26.87	215	80	Vertical
6	2487.94	33.15	8.57	54.00	20.85	125	230	Vertical

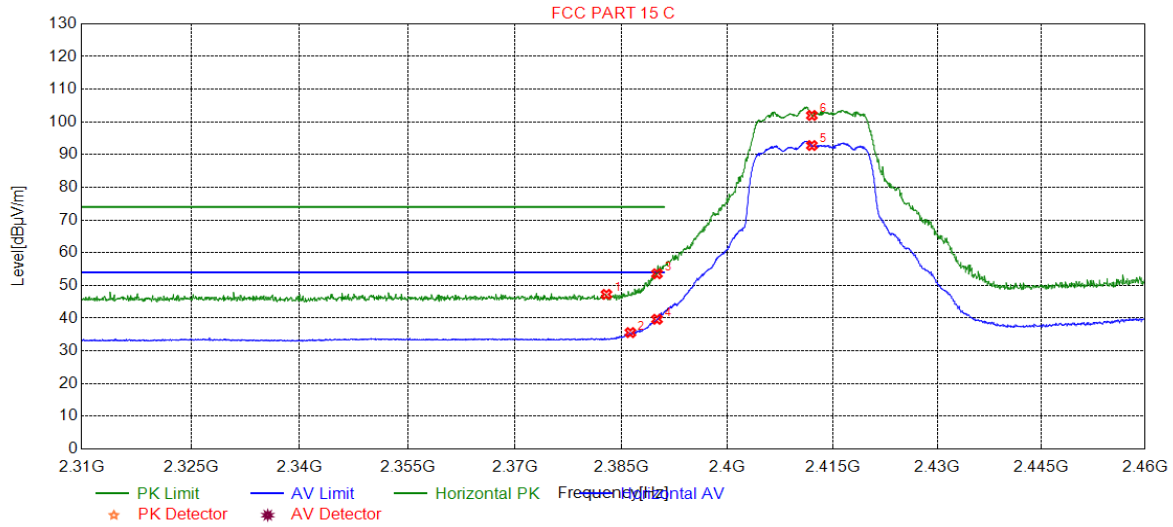
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4.10.1.5 802.11G\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.86	47.29	7.90	74.00	26.71	269	274	Horizontal
2	2386.23	35.60	7.87	54.00	18.40	130	225	Horizontal
3	2390.00	53.58	7.98	74.00	20.42	217	188	Horizontal
4	2390.00	39.67	7.98	54.00	14.33	286	169	Horizontal
5	2412.00	92.80	8.16	0.00	-92.80	123	166	Horizontal
6	2412.00	101.99	8.16	0.00	-101.99	167	169	Horizontal

Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.86	47.29	7.90	74.00	26.71	269	274	Horizontal
2	2386.23	35.60	7.87	54.00	18.40	130	225	Horizontal
3	2390.00	53.58	7.98	74.00	20.42	217	188	Horizontal
4	2390.00	39.67	7.98	54.00	14.33	286	169	Horizontal
5	2412.00	92.80	8.16	0.00	-92.80	123	166	Horizontal
6	2412.00	101.99	8.16	0.00	-101.99	167	169	Horizontal

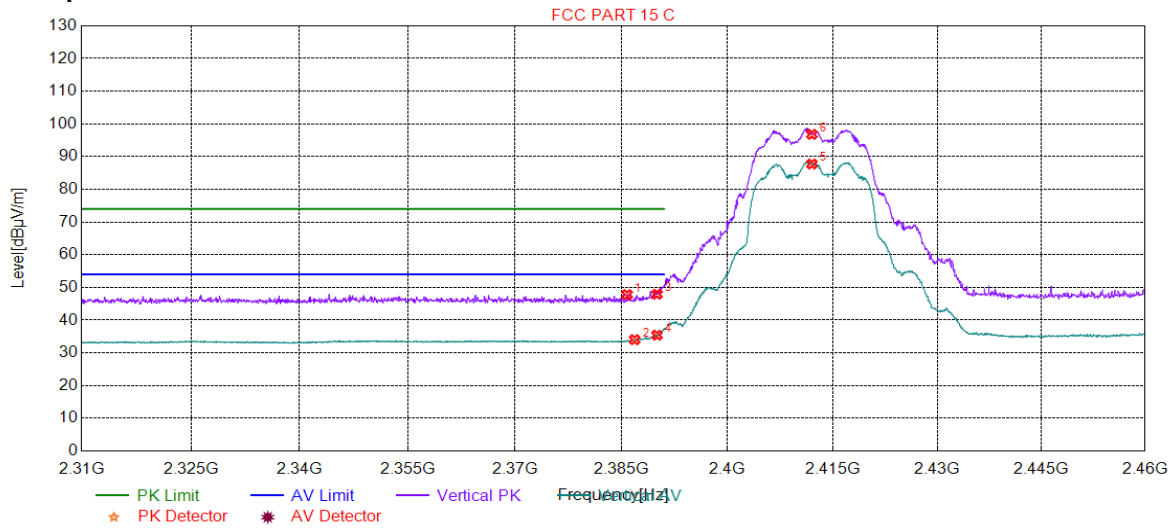


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4.10.1.6 802.11G\_Channel 1 MIMO

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.78	47.83	7.85	74.00	26.17	155	317	Vertical
2	2386.83	34.05	7.89	54.00	19.95	138	317	Vertical
3	2390.00	47.94	7.98	74.00	26.06	287	346	Vertical
4	2390.00	35.42	7.98	54.00	18.58	210	298	Vertical
5	2412.00	87.76	8.16	0.00	-87.76	230	298	Vertical
6	2412.00	96.82	8.16	0.00	-96.82	227	298	Vertical

Final Data List



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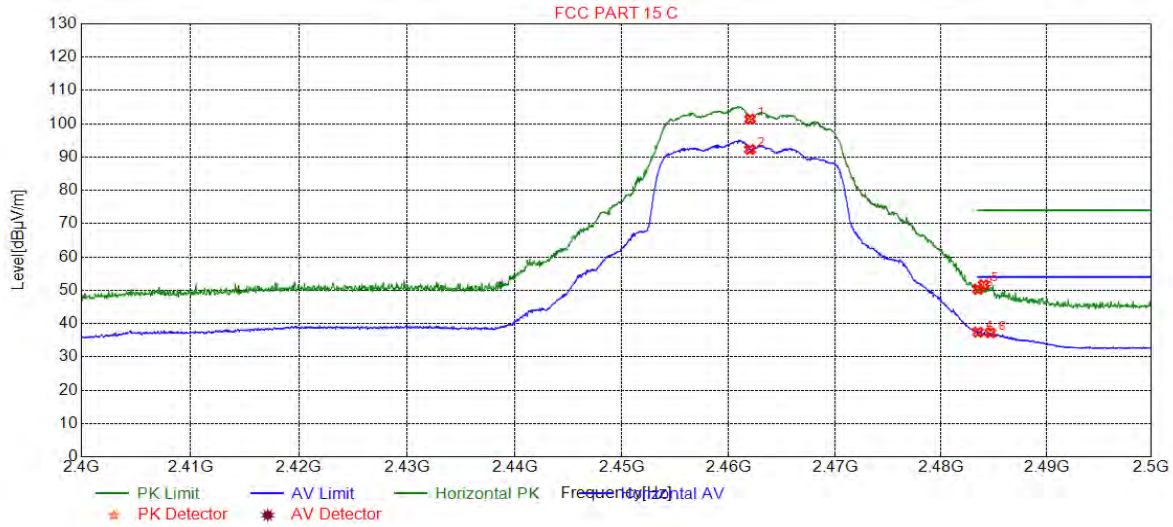
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4.10.1.7 802.11G\_Channel 11 MIMO

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	101.40	8.75	0.00	-101.40	178	166	Horizontal
2	2462.00	92.29	8.75	0.00	-92.29	275	230	Horizontal
3	2483.50	50.34	8.50	74.00	23.66	234	342	Horizontal
4	2483.50	37.47	8.50	54.00	16.53	268	188	Horizontal
5	2484.04	51.66	8.50	74.00	22.34	182	241	Horizontal
6	2484.69	37.28	8.49	54.00	16.72	183	230	Horizontal

Final Data List

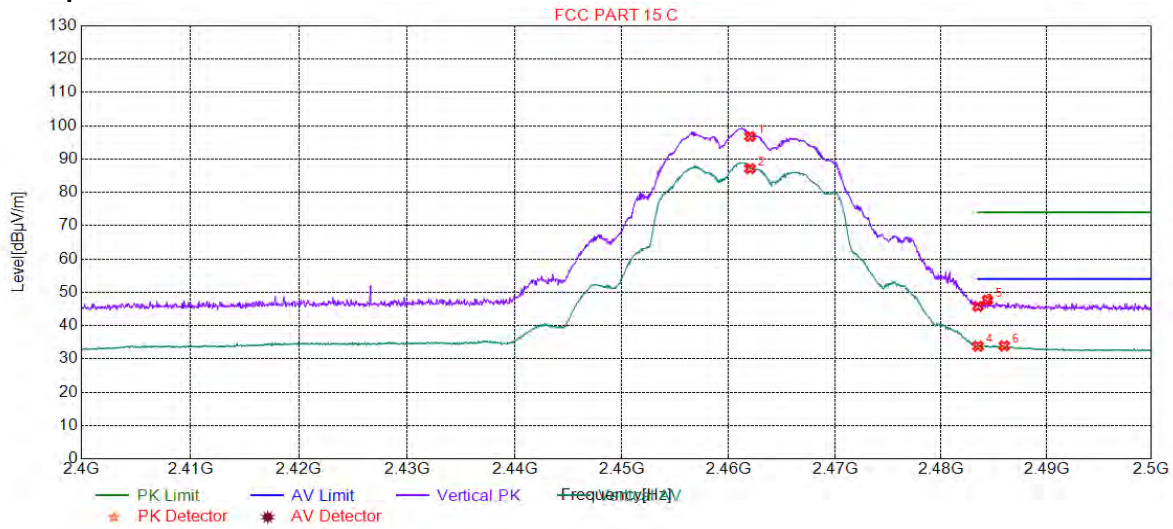


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**4.10.1.8 802.11G\_Channel 11 MIMO**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.78	8.75	0.00	-96.78	230	294	Vertical
2	2462.00	87.14	8.75	0.00	-87.14	150	298	Vertical
3	2483.50	45.79	8.50	74.00	28.21	259	51	Vertical
4	2483.50	33.84	8.50	54.00	20.16	158	294	Vertical
5	2484.39	47.69	8.50	74.00	26.31	141	261	Vertical
6	2485.99	33.94	8.51	54.00	20.06	396	264	Vertical

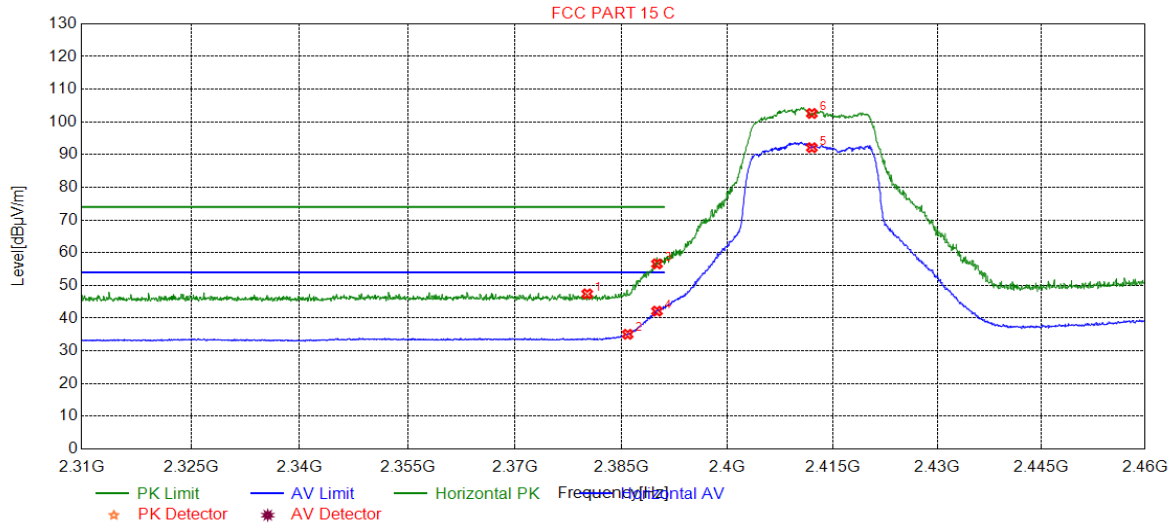
**Final Data List**



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4.10.1.9 802.11N20\_Channel 1 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.16	47.43	7.99	74.00	26.57	124	51	Horizontal
2	2385.86	35.08	7.86	54.00	18.92	258	235	Horizontal
3	2390.00	56.61	7.98	74.00	17.39	115	328	Horizontal
4	2390.00	42.15	7.98	54.00	11.85	181	167	Horizontal
5	2412.00	92.13	8.16	0.00	-92.13	299	227	Horizontal
6	2412.00	102.60	8.16	0.00	-102.60	211	167	Horizontal

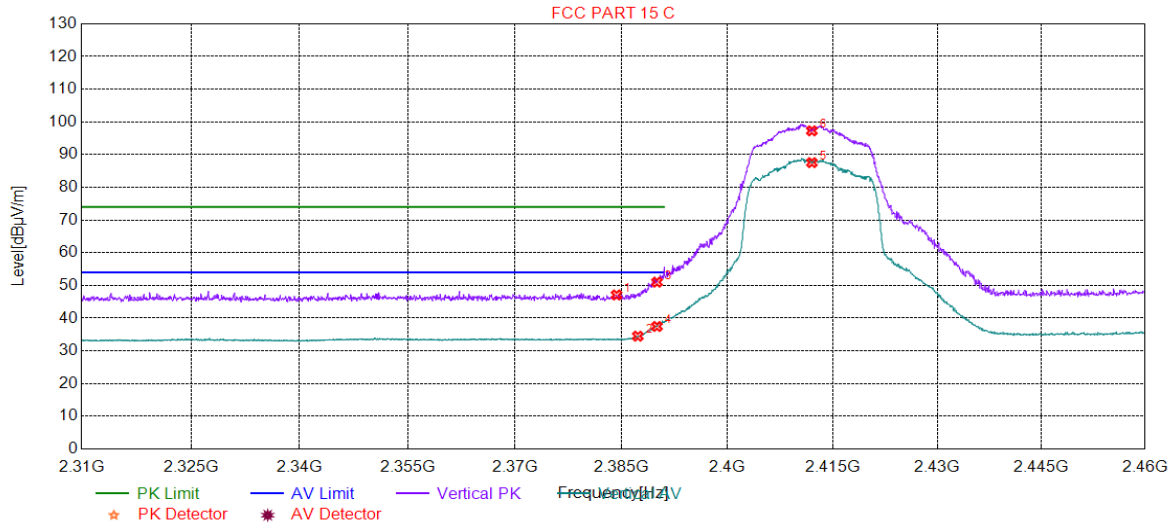
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4.10.1.10 802.11N20\_Channel 1 MIMO

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.28	47.11	7.85	74.00	26.89	333	242	Vertical
2	2387.28	34.51	7.90	54.00	19.49	150	216	Vertical
3	2390.00	51.02	7.98	74.00	22.98	101	320	Vertical
4	2390.00	37.47	7.98	54.00	16.53	397	216	Vertical
5	2412.00	87.57	8.16	0.00	-87.57	142	298	Vertical
6	2412.00	97.28	8.16	0.00	-97.28	340	298	Vertical

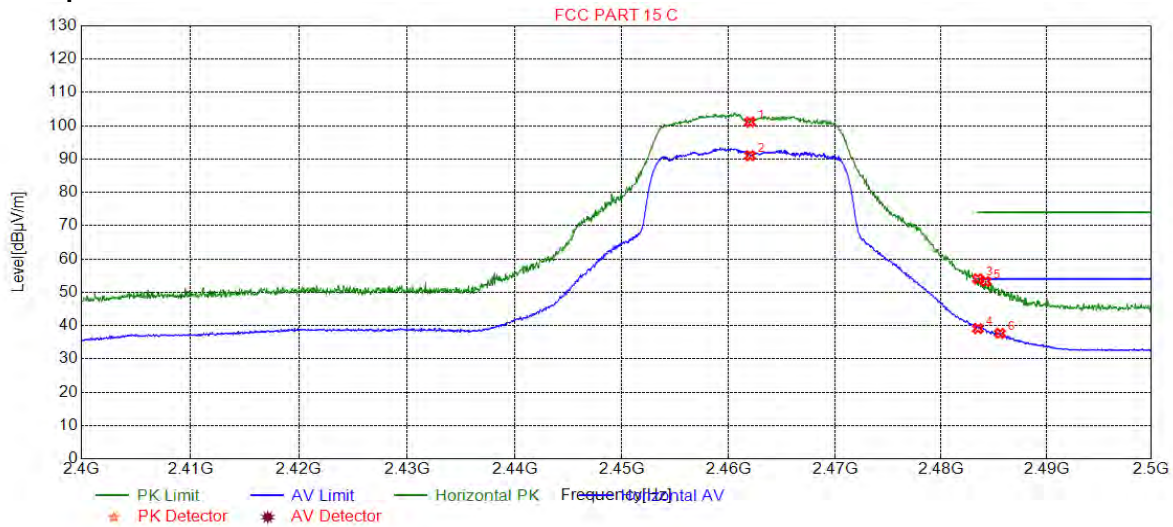
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### 4.10.1.11 802.11N20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	101.14	8.75	0.00	-101.14	104	244	Horizontal
2	2462.00	91.03	8.75	0.00	-91.03	372	188	Horizontal
3	2483.50	54.07	8.50	74.00	19.93	223	225	Horizontal
4	2483.50	39.14	8.50	54.00	14.86	331	233	Horizontal
5	2484.24	53.25	8.50	74.00	20.75	130	233	Horizontal
6	2485.59	37.67	8.50	54.00	16.33	189	229	Horizontal

#### Final Data List

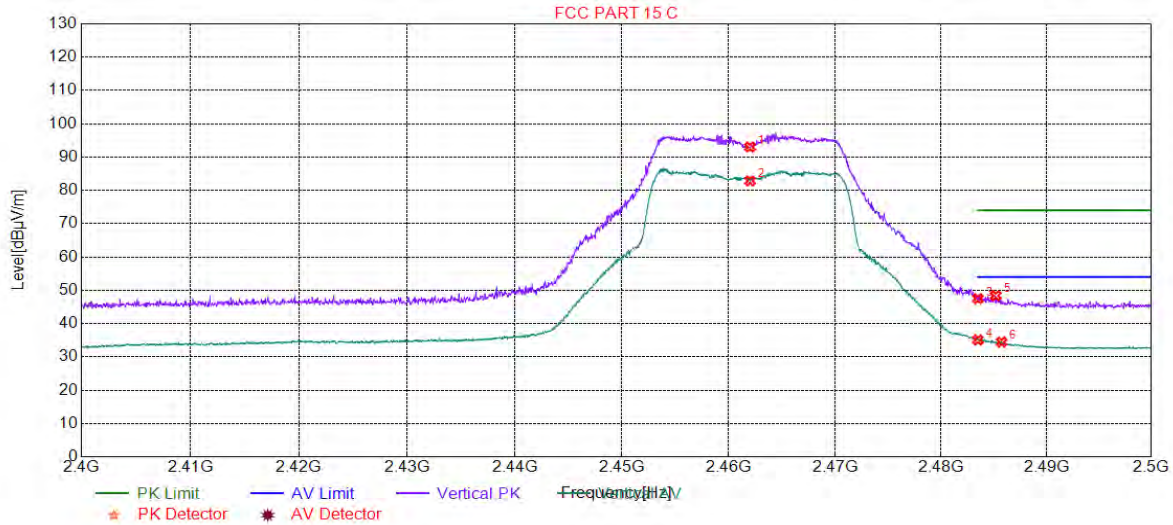


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4.10.1.12 802.11N20\_Channel 11 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.03	8.75	0.00	-93.03	216	74	Vertical
2	2462.00	82.86	8.75	0.00	-82.86	379	74	Vertical
3	2483.50	47.49	8.50	74.00	26.51	202	257	Vertical
4	2483.50	35.14	8.50	54.00	18.86	352	260	Vertical
5	2485.19	48.41	8.49	74.00	25.59	219	260	Vertical
6	2485.74	34.51	8.51	54.00	19.49	290	298	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

All Modes have been tested, but only the worst case data displayed in this report.



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## 5 Measurement Uncertainty (95% confidence levels, k=2)

### Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

### Lab B:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test	±4.8dB (30MHz-1GHz)
		±5.2dB (1GHz-6GHz)
		±5.5dB (6GHz-18GHz)
		±5.02dB (18GHz-40GHz)
2	Conduct emission test	±3.4 dB (9KHz- 30MHz)



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## 6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/2	2022/1/1
				2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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RSE&RE&CE Test System					
Equipment	Manufacturer	Model No.	Cal Date	Cal Due Date	Inventory No.
Semi-Anechoic Chamber	Brilliant-emc	966	NCR	NCR	XAW03-35-01
MXA signal analyzer	Keysight	N9020A	2020-04-02	2021-04-02	XAW01-06-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	2020-04-02	2021-04-02	XAW01-03-02
Test receiver	ROHDE&SCHWARZ	ESR	2020-09-11	2021-09-10	XAW01-08-01
Receiving antenna	Rosenberger	VULB 9163	2019-10-13	2021-10-12	XAW01-09-01
Receiving antenna	Rosenberger	BBHA 9120D	2019-10-13	2021-10-12	XAW01-09-02
Receiving antenna	Rosenberger	BBHA 9170	2019-10-13	2021-10-12	XAW01-09-03
Directional antenna rack controller	Max-Full	MF-7802BS	NCR	NCR	XAW03-03-01
High-speed antenna rack controller	Max-Full	MF-7802	NCR	NCR	XAW03-04-01
Filter bank	Tonscend	JS0806-F	NCR	NCR	XAW03-05-01
Filter bank	Tonscend	JS0806s	NCR	NCR	XAW03-05-02
Amplifier	Tonscend	TAP00903040	2020-10-26	2021-10-25	XAW01-41-01
Amplifier	Tonscend	TAP01018048	2020-10-26	2021-10-25	XAW01-41-02
Amplifier	Tonscend	TAP18040048	2020-10-26	2021-10-25	XAW01-41-03
Amplifier	Shanghai Steed	YX28980930	2020-10-26	2021-10-25	XAW01-41-06
Artificial network	ROHDE&SCHWARZ	ENV216	2020-08-04	2021-08-03	XAW01-19-02
5G UXM	Keysight	E7515B	2020-09-11	2021-09-10	XAW01-04-01
Temperature and humidity meter	MingGao	TH101B	2020-06-11	2021-05-11	XAW01-01-01
Measurement Software	Tonscend	TS+ RSE&RE	NCR	NCR	XAW02-05-01
Measurement Software	Tonscend	TS+ CE	NCR	NCR	XAW02-05-02



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A PCE&NII&DTS&DSS Setup Photos.



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# Appendix



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**DTS Bandwidth**

**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant6	2412	8.580	2408.010	2416.590	0.5	PASS
	Ant7	2412	8.610	2407.920	2416.530	0.5	PASS
	Ant6	2437	9.090	2432.500	2441.590	0.5	PASS
	Ant7	2437	9.060	2432.440	2441.500	0.5	PASS
	Ant6	2462	8.580	2457.500	2466.080	0.5	PASS
	Ant7	2462	8.610	2457.440	2466.050	0.5	PASS
11G	Ant6	2412	15.750	2404.410	2420.160	0.5	PASS
	Ant7	2412	15.360	2404.410	2419.770	0.5	PASS
	Ant6	2437	15.510	2429.050	2444.560	0.5	PASS
	Ant7	2437	15.360	2429.200	2444.560	0.5	PASS
	Ant6	2462	15.390	2454.200	2469.590	0.5	PASS
	Ant7	2462	15.780	2453.780	2469.560	0.5	PASS
11N20SISO	Ant6	2412	15.960	2404.440	2420.400	0.5	PASS
	Ant7	2412	15.210	2404.380	2419.590	0.5	PASS
	Ant6	2437	15.780	2429.380	2445.160	0.5	PASS
	Ant7	2437	15.510	2429.380	2444.890	0.5	PASS
	Ant6	2462	16.020	2453.570	2469.590	0.5	PASS
	Ant7	2462	15.540	2454.050	2469.590	0.5	PASS
11B-CDD	Ant6	2412	8.580	2407.950	2416.530	0.5	PASS
	Ant7	2412	8.610	2407.920	2416.530	0.5	PASS
	Ant6	2437	8.610	2432.920	2441.530	0.5	PASS
	Ant7	2437	8.610	2432.920	2441.530	0.5	PASS
	Ant6	2462	8.640	2457.410	2466.050	0.5	PASS
	Ant7	2462	9.120	2457.410	2466.530	0.5	PASS
11G-CDD	Ant6	2412	15.150	2404.410	2419.560	0.5	PASS
	Ant7	2412	15.750	2404.380	2420.130	0.5	PASS
	Ant6	2437	15.900	2429.230	2445.130	0.5	PASS
	Ant7	2437	15.510	2429.050	2444.560	0.5	PASS
	Ant6	2462	15.750	2453.810	2469.560	0.5	PASS



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	Ant7	2462	15.990	2453.780	2469.770	0.5	PASS
11N20MIMO	Ant6	2412	15.750	2404.410	2420.160	0.5	PASS
	Ant7	2412	15.750	2404.380	2420.130	0.5	PASS
	Ant6	2437	16.710	2428.810	2445.520	0.5	PASS
	Ant7	2437	16.350	2428.810	2445.160	0.5	PASS
	Ant6	2462	16.140	2453.450	2469.590	0.5	PASS
	Ant7	2462	15.720	2453.840	2469.560	0.5	PASS

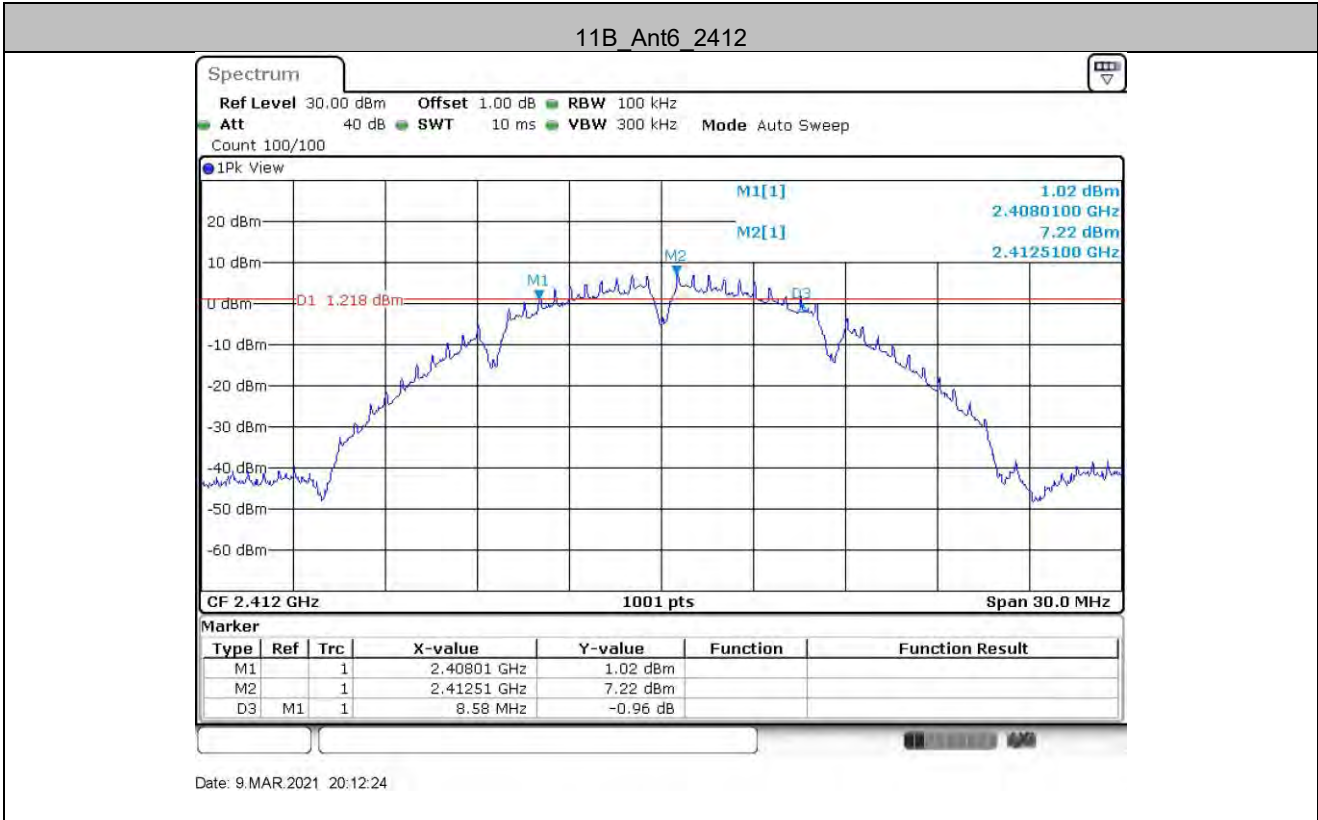


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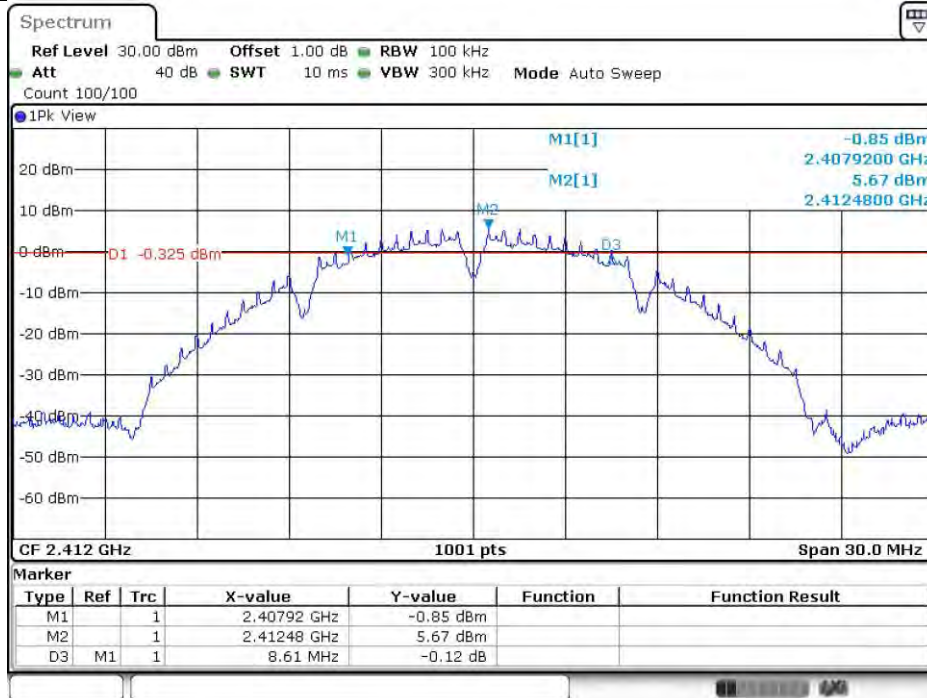


### Test Graphs



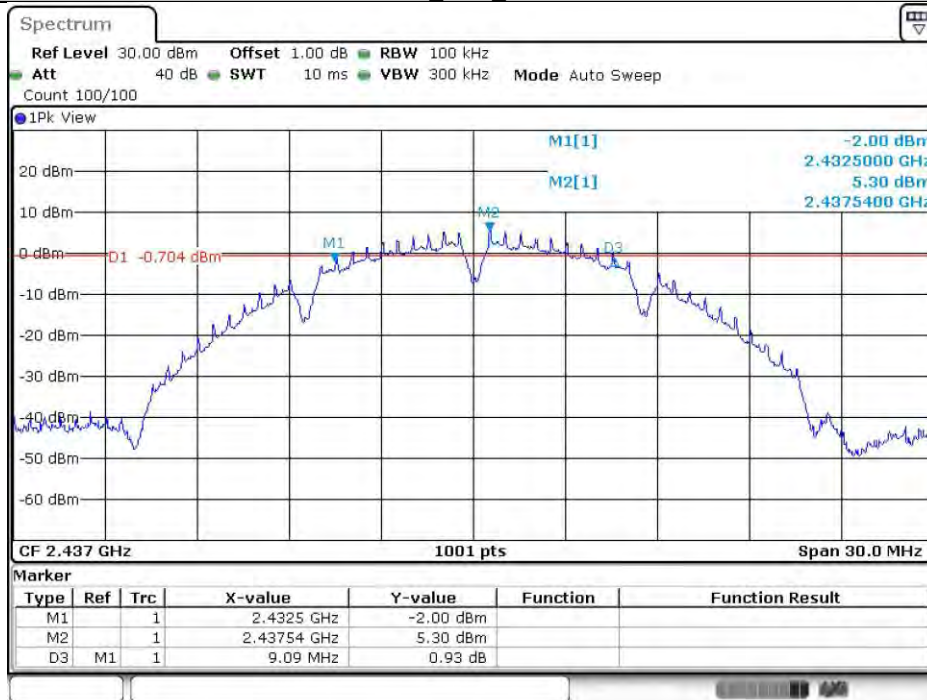
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### 11B Ant7 2412



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### 11B Ant6 2437

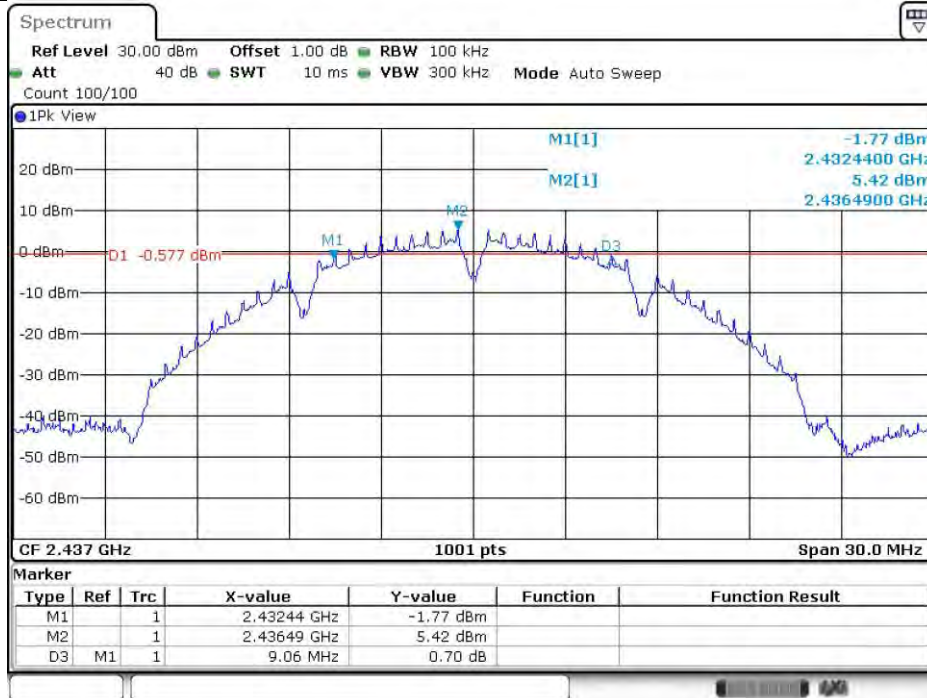


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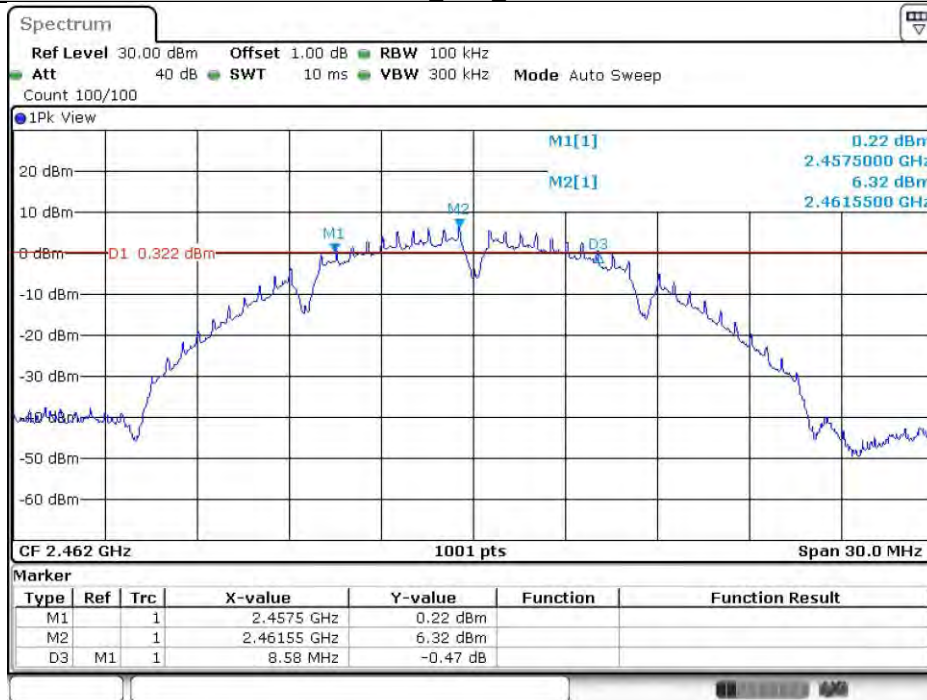
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### 11B Ant7 2437



Date: 14 JAN 2021 15:41:15

### 11B Ant6 2462

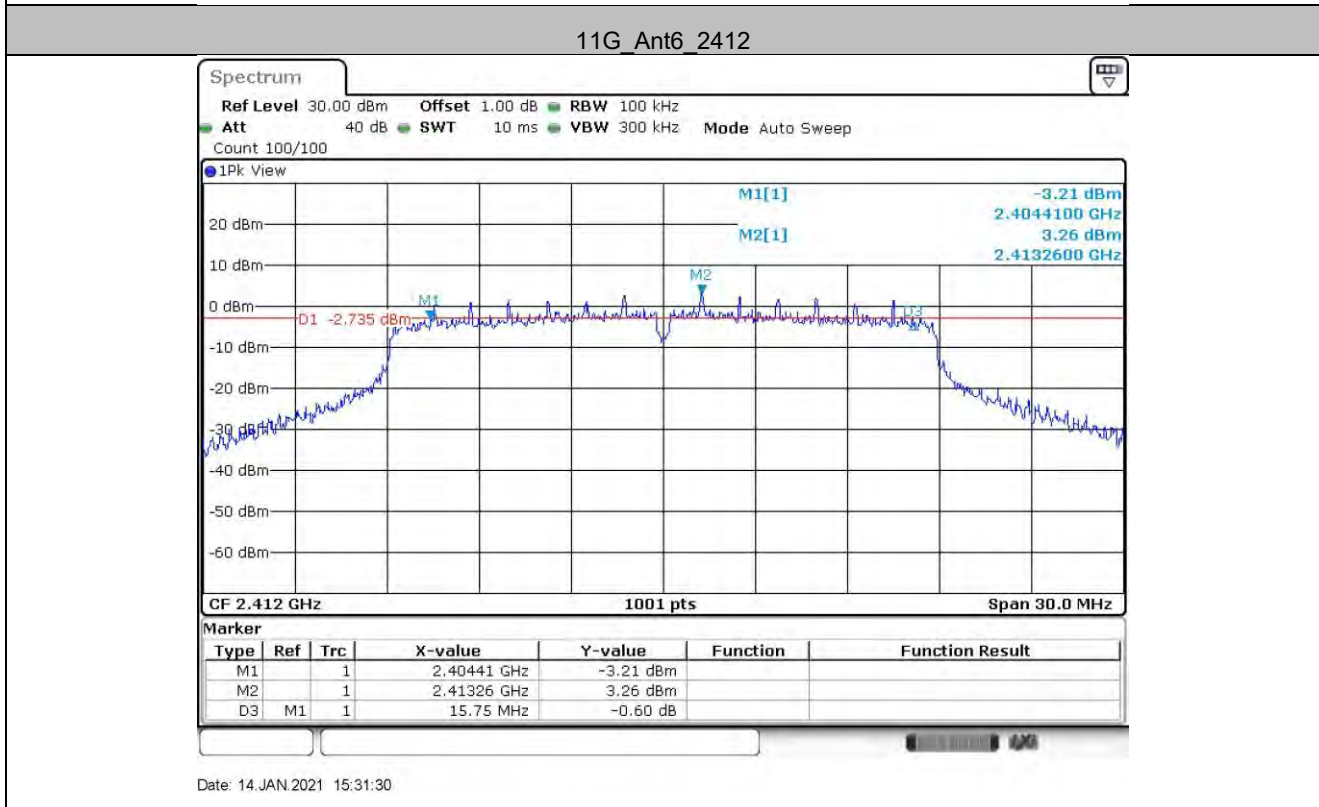
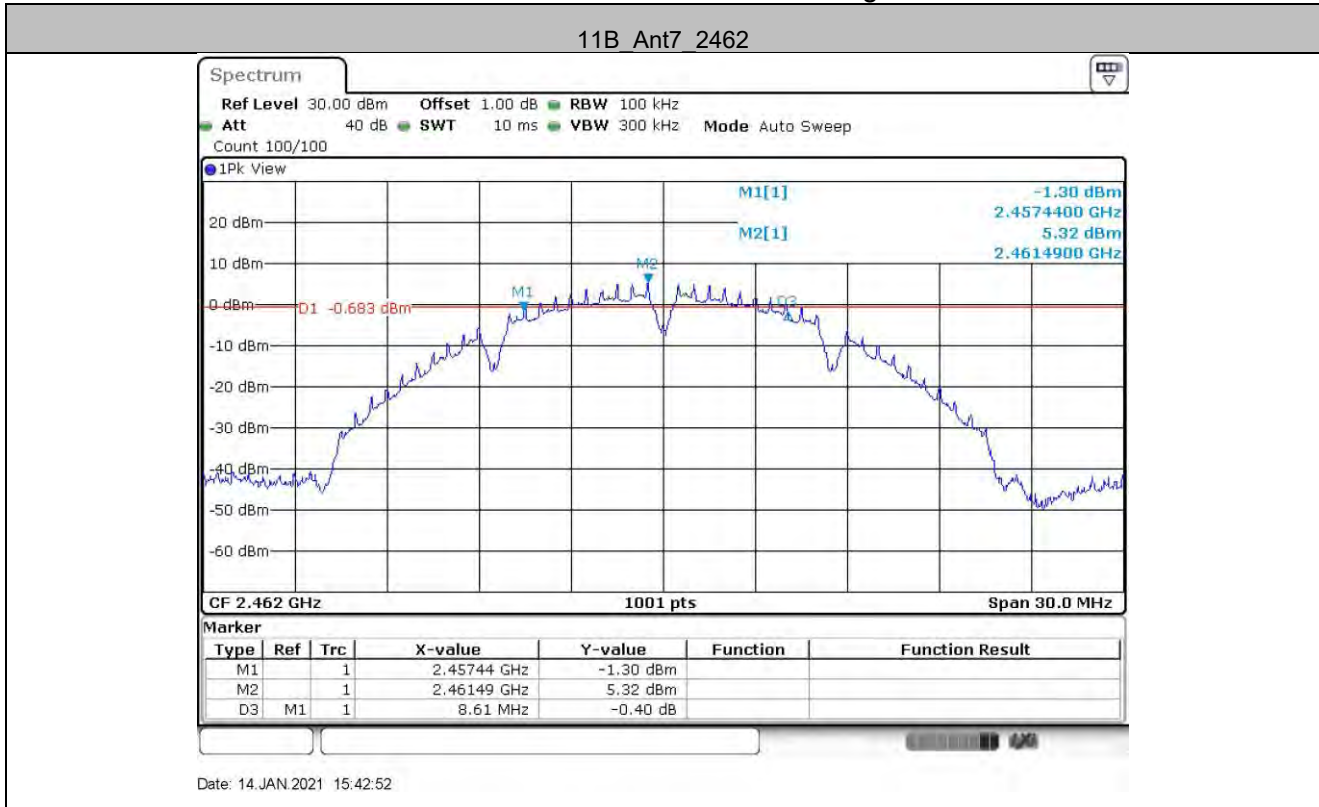


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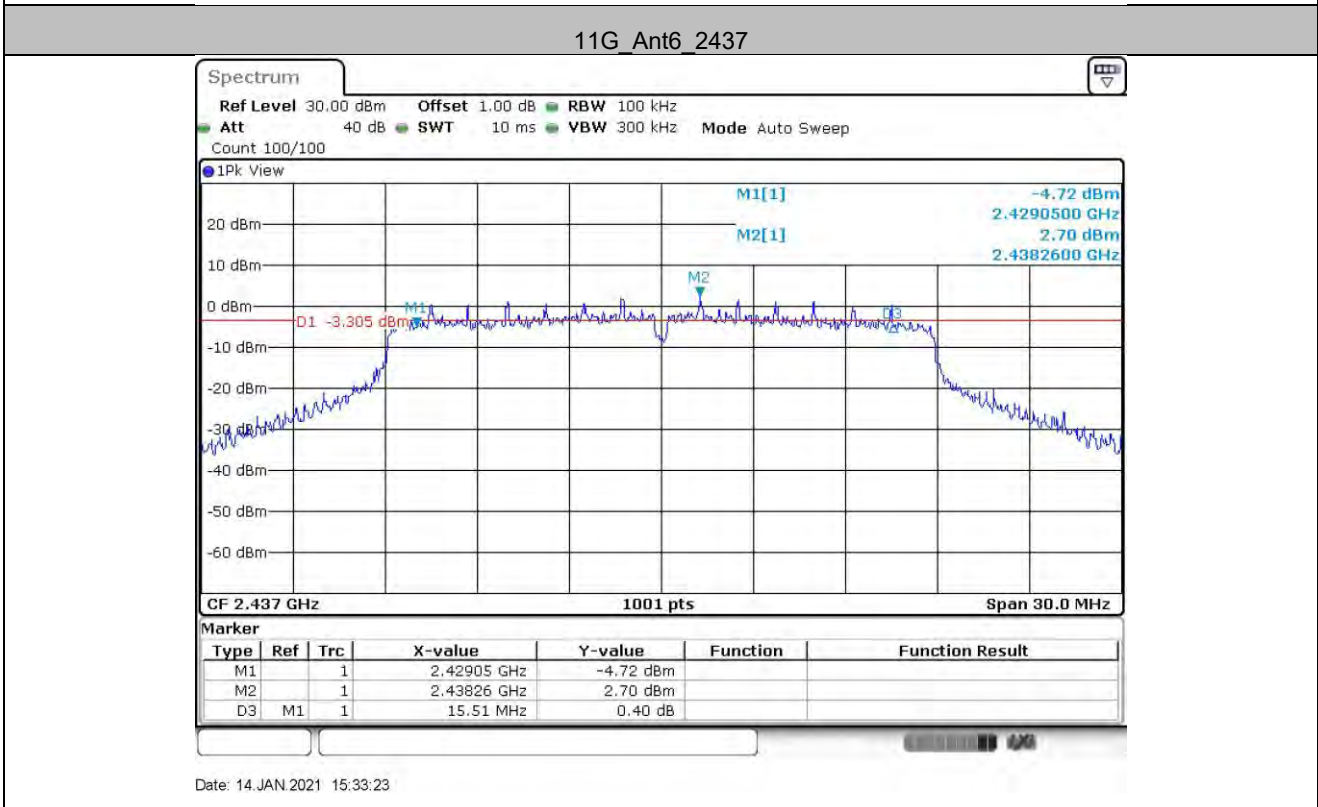
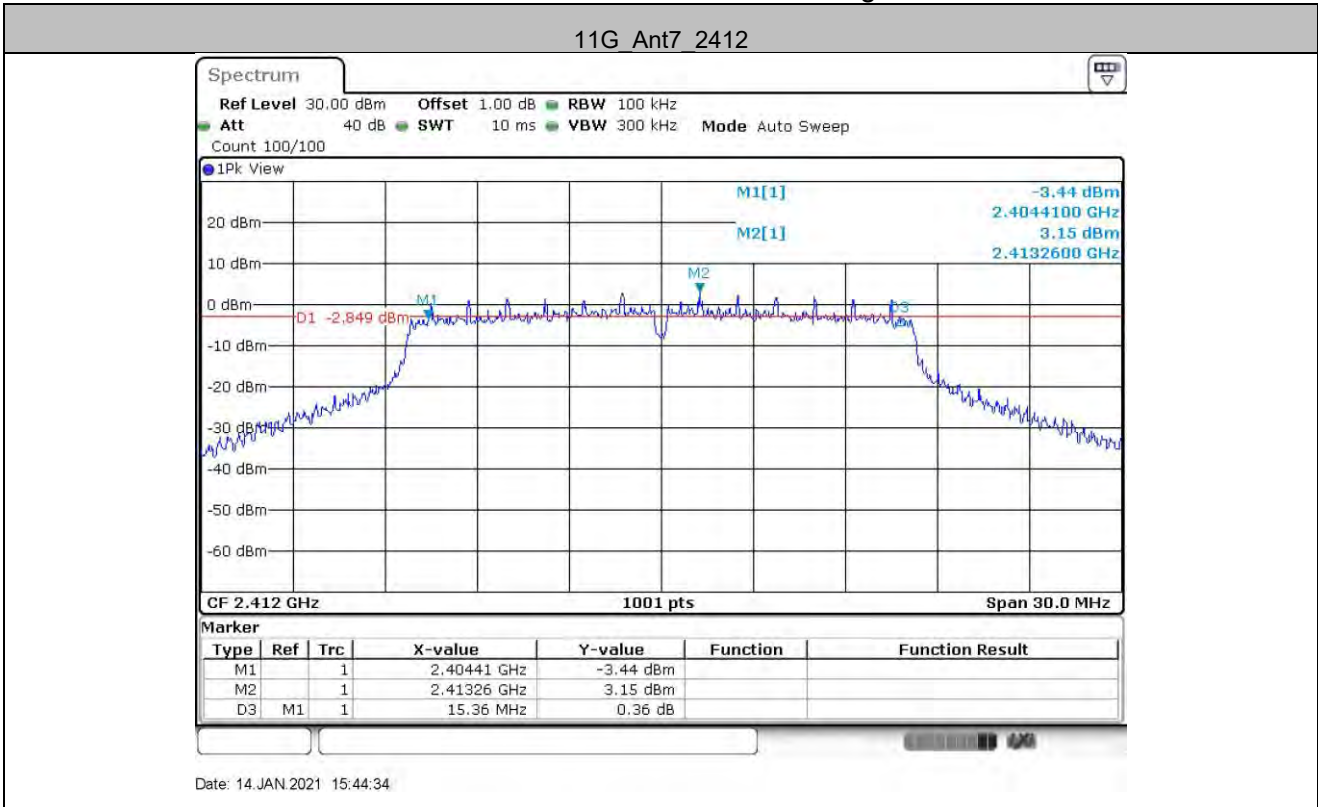
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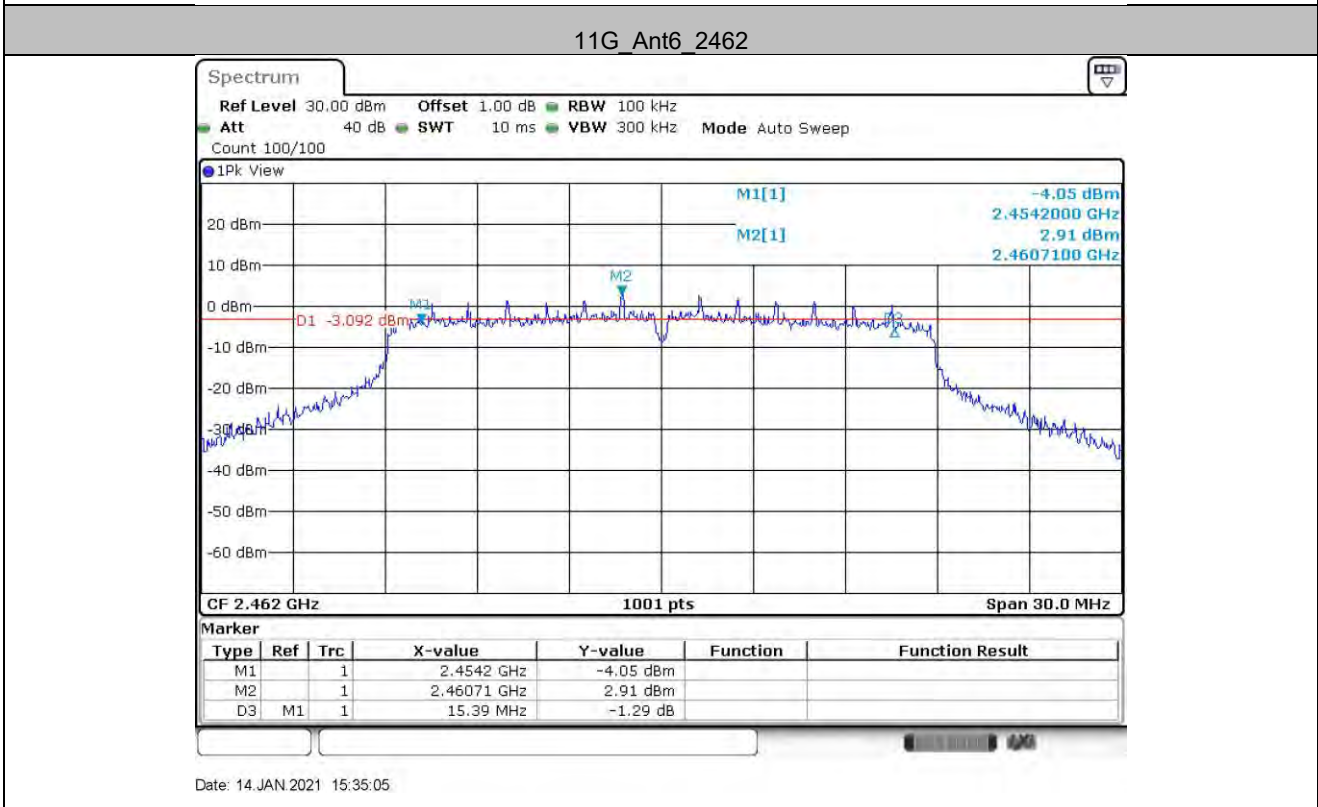
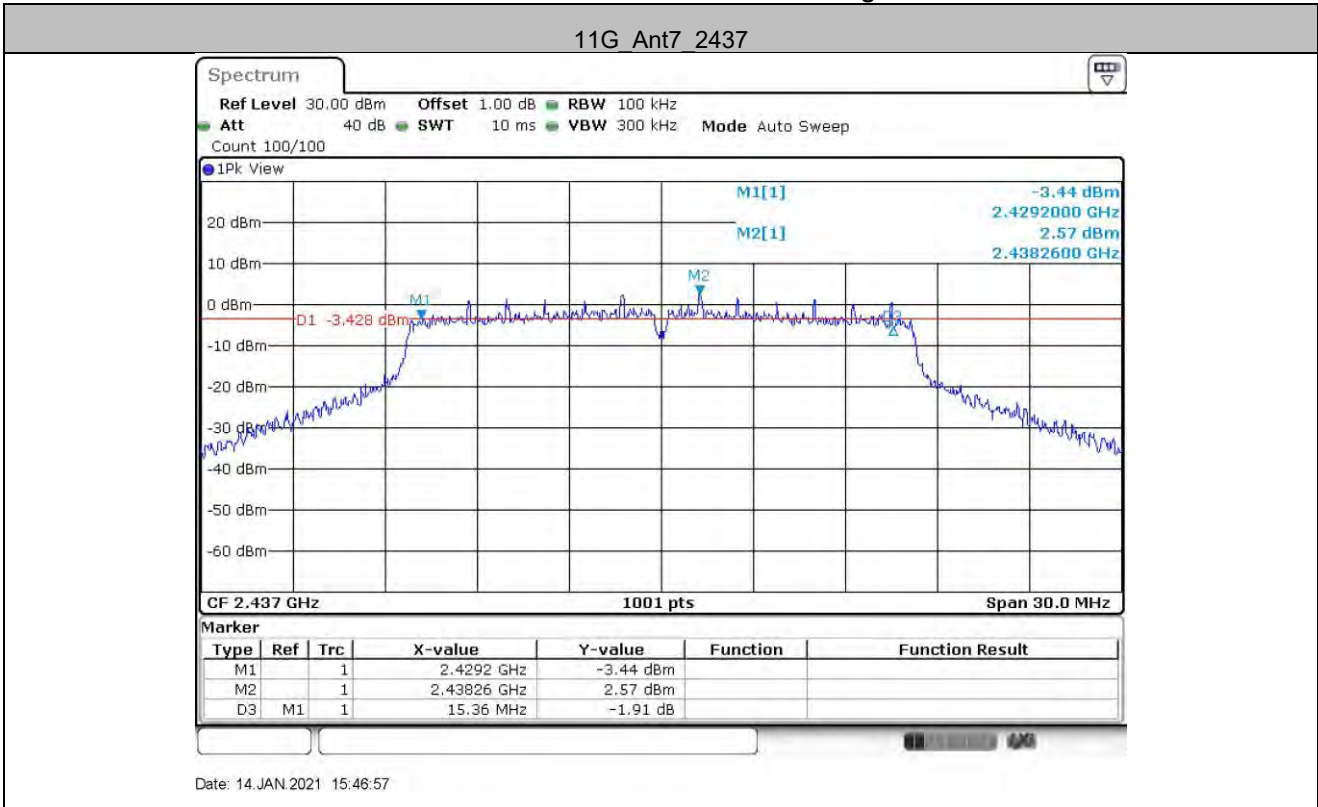


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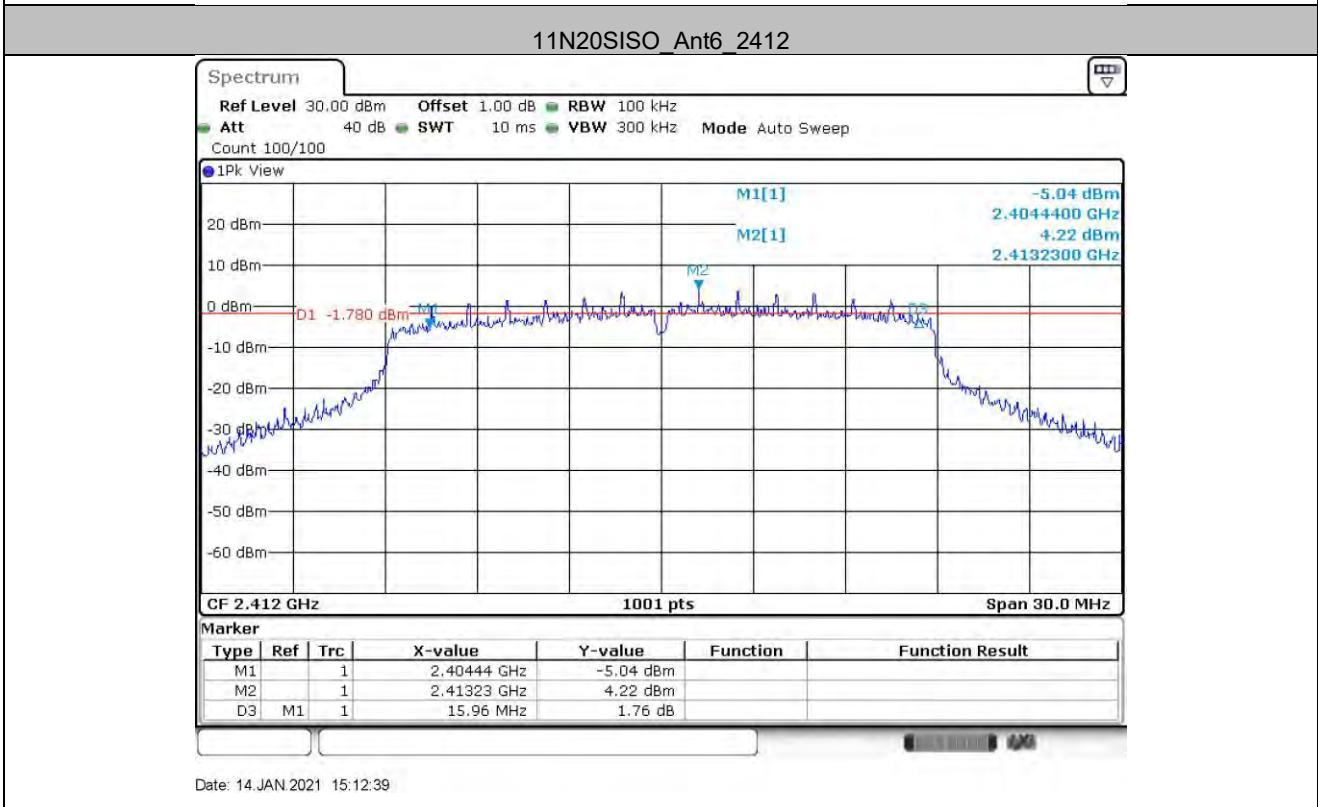
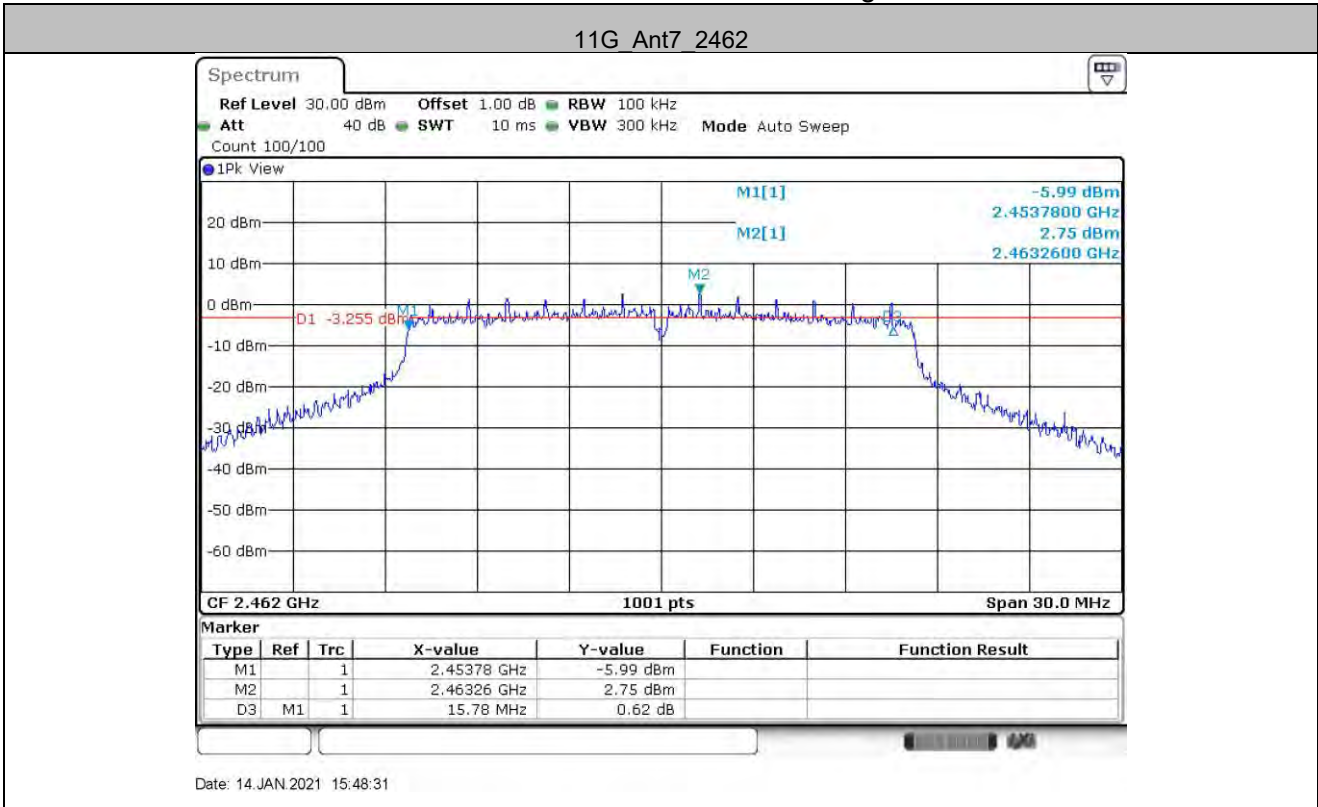
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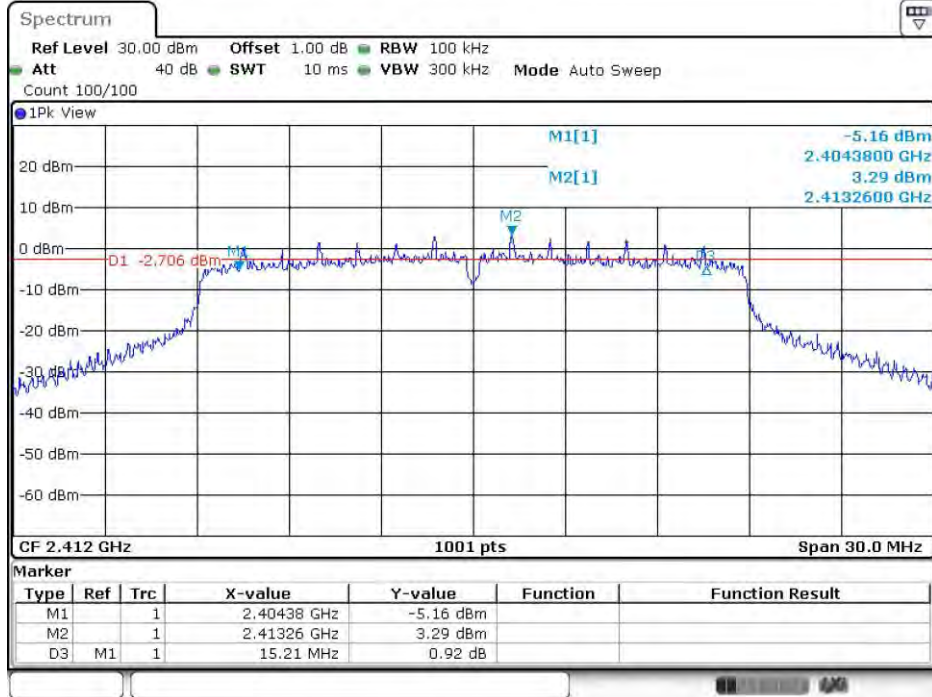
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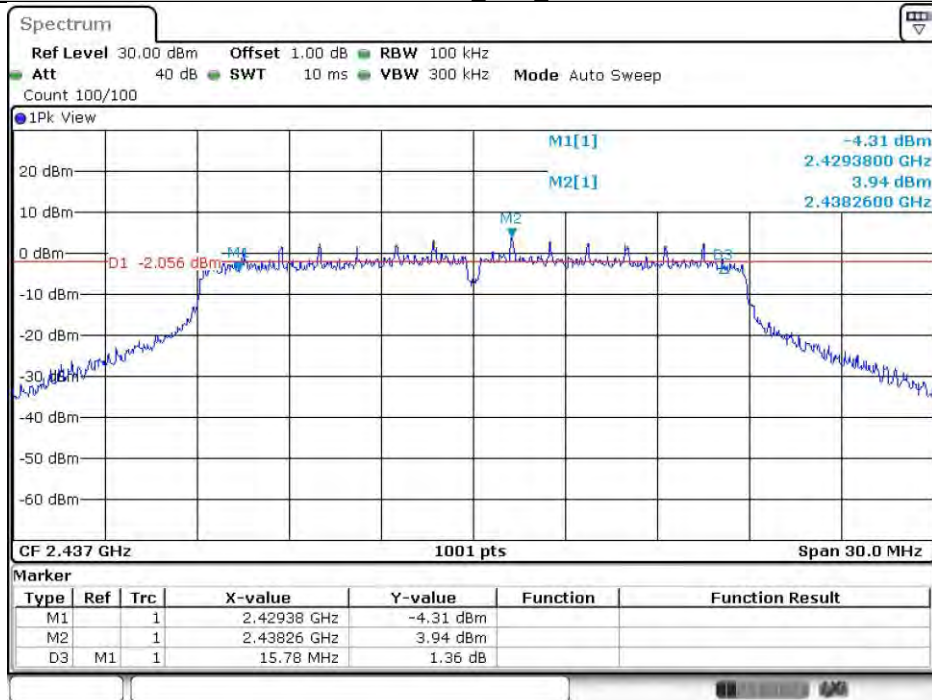
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### 11N20SISO Ant7 2412



Date: 14 JAN 2021 15:50:19

### 11N20SISO Ant6 2437



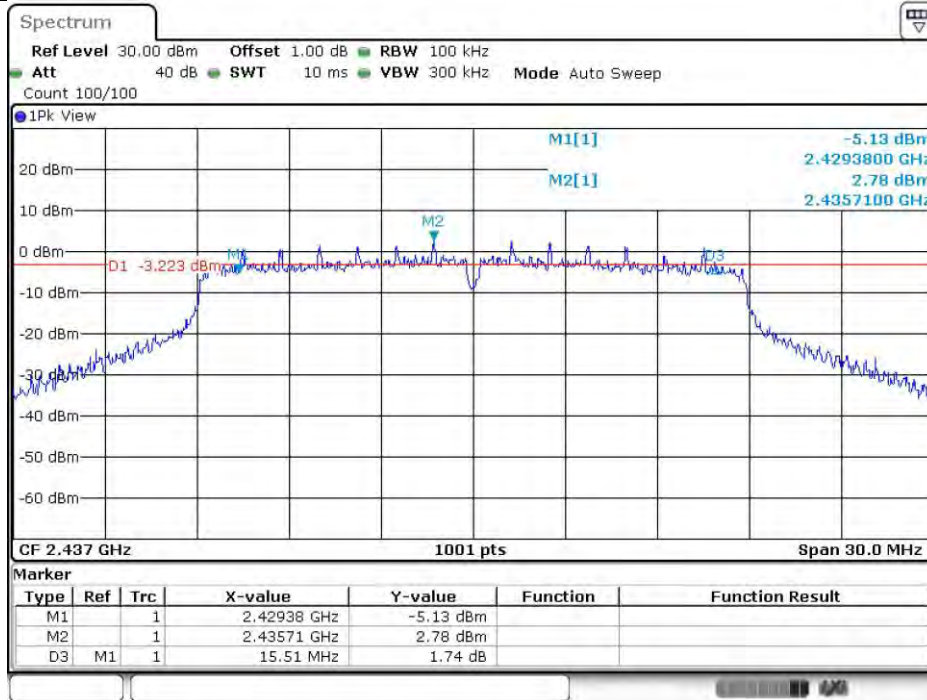
Date: 14 JAN 2021 15:14:16



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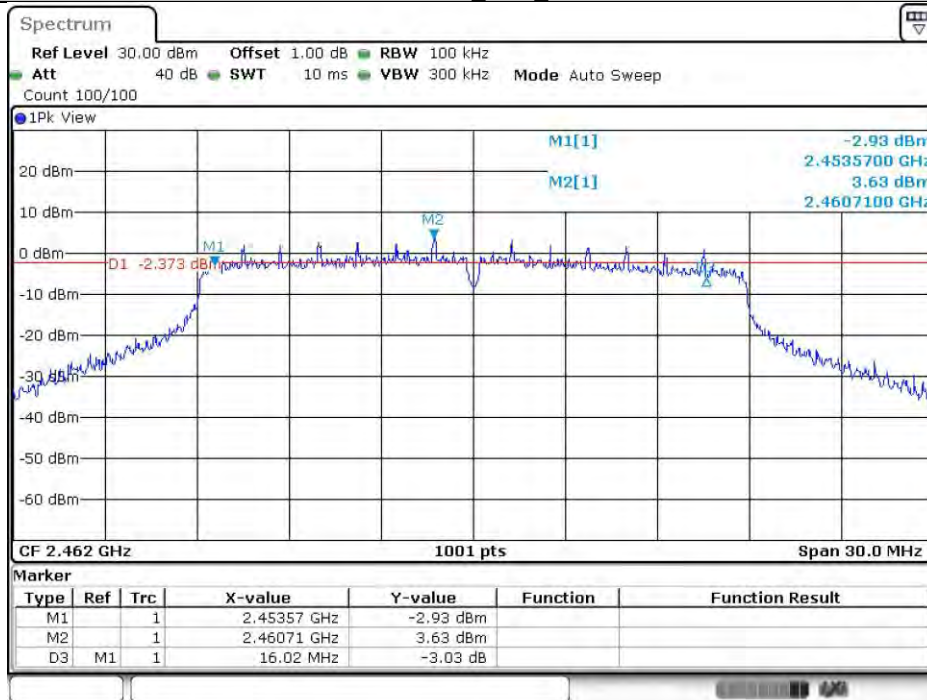


### 11N20SISO Ant7 2437



Date: 14 JAN 2021 15:51:57

### 11N20SISO Ant6 2462



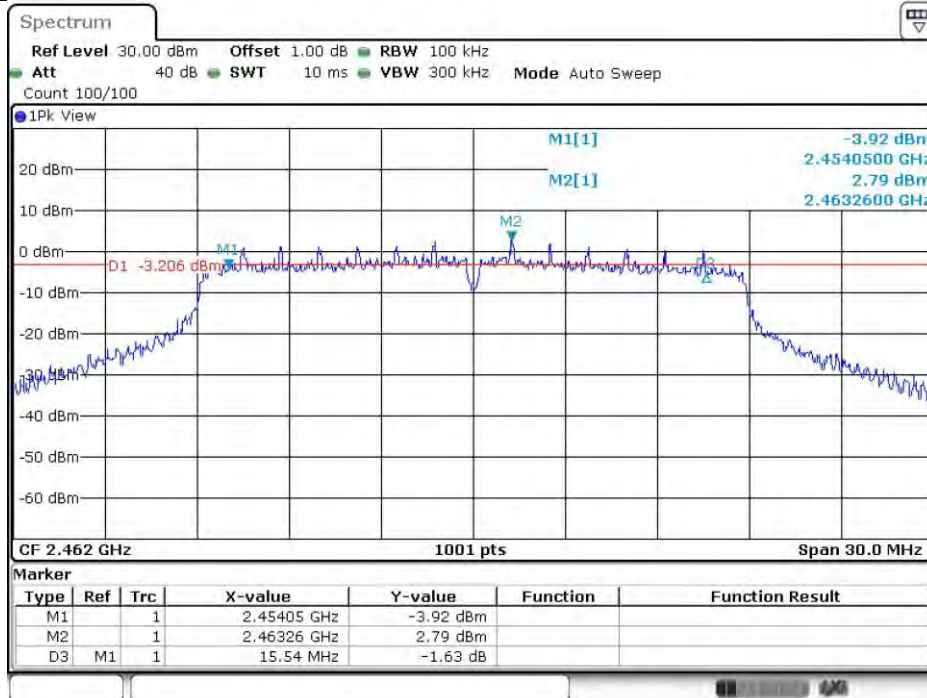
Date: 14 JAN 2021 15:15:52



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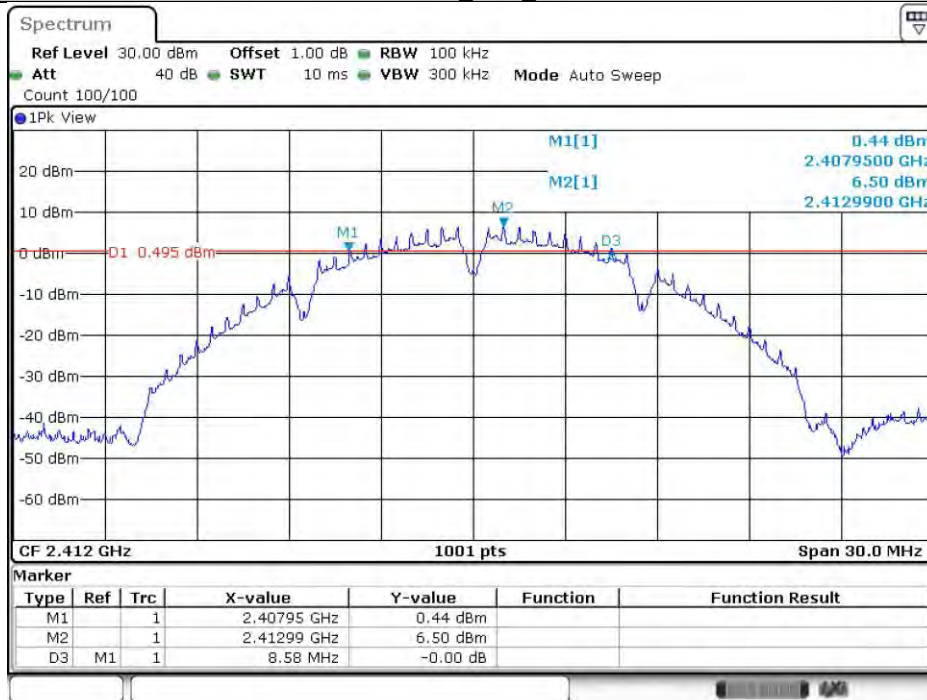
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### 11N20SISO Ant7 2462



Date: 14 JAN 2021 15:54:42

### 11B-CDD Ant6 2412



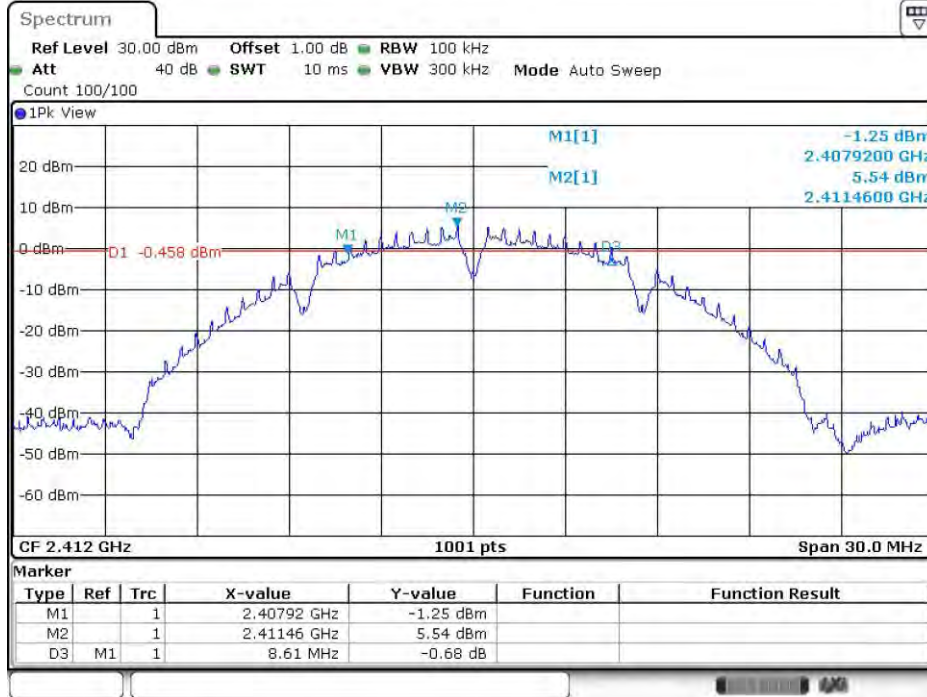
Date: 14 JAN 2021 15:59:12



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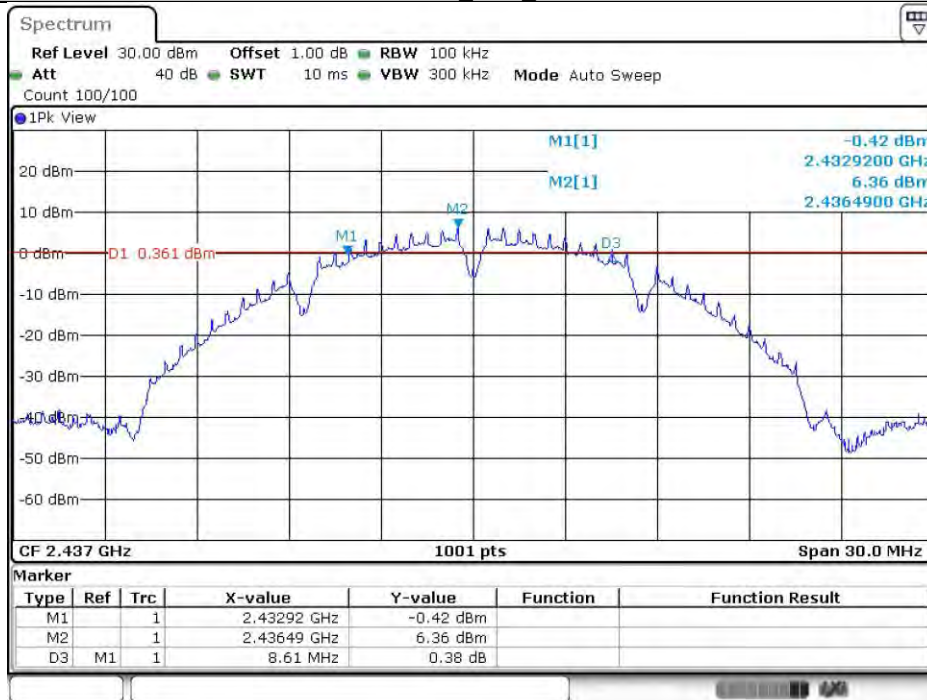
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### 11B-CDD Ant7 2412



Date: 14 JAN 2021 16:39:33

### 11B-CDD Ant6 2437



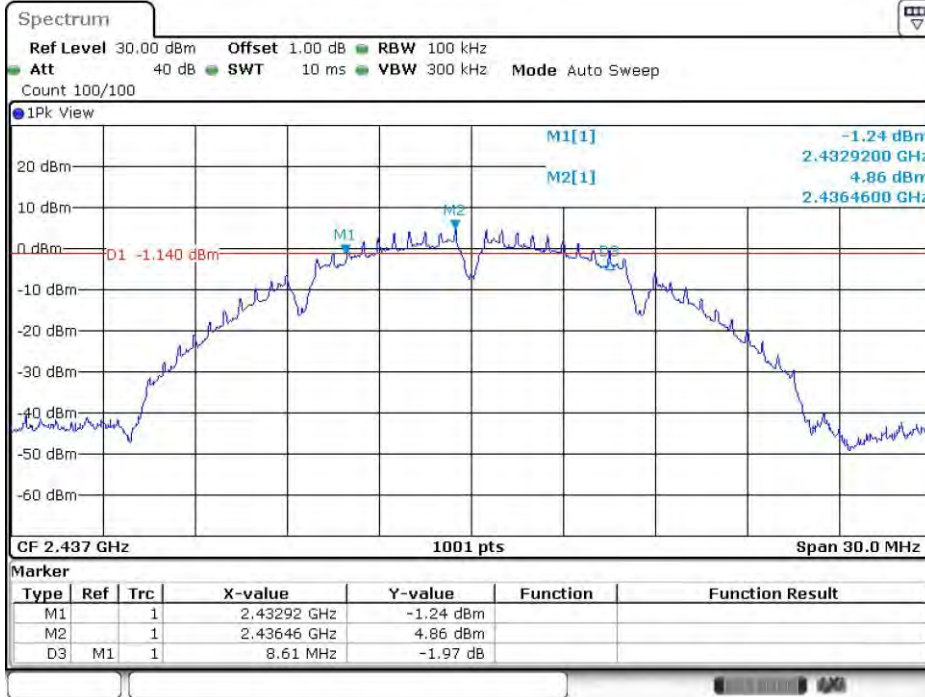
Date: 14 JAN 2021 16:02:17



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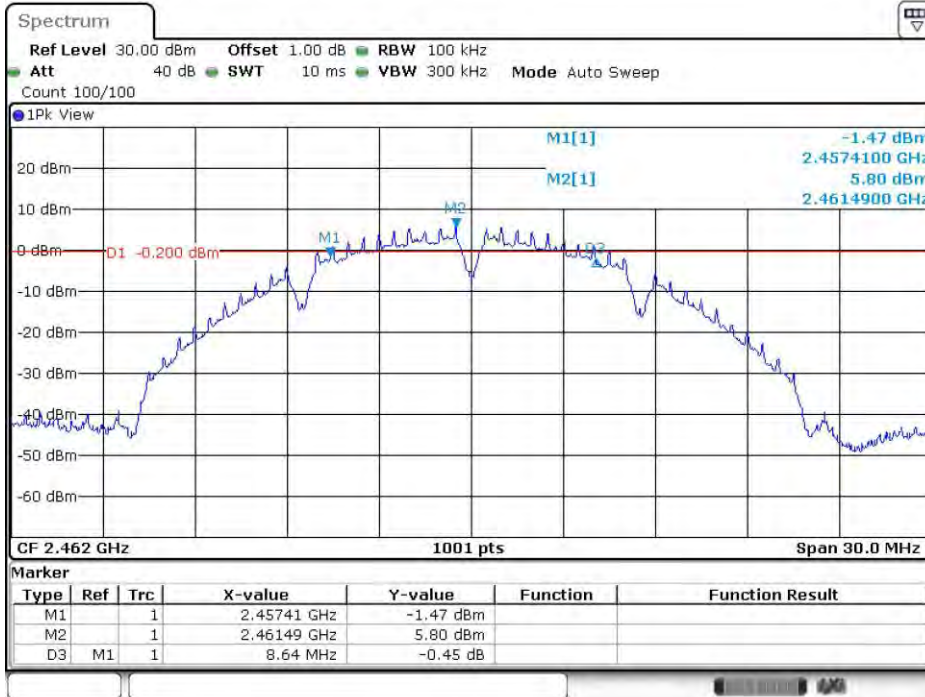
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### 11B-CDD Ant7 2437



Date: 14 JAN 2021 16:41:51

### 11B-CDD Ant6 2462

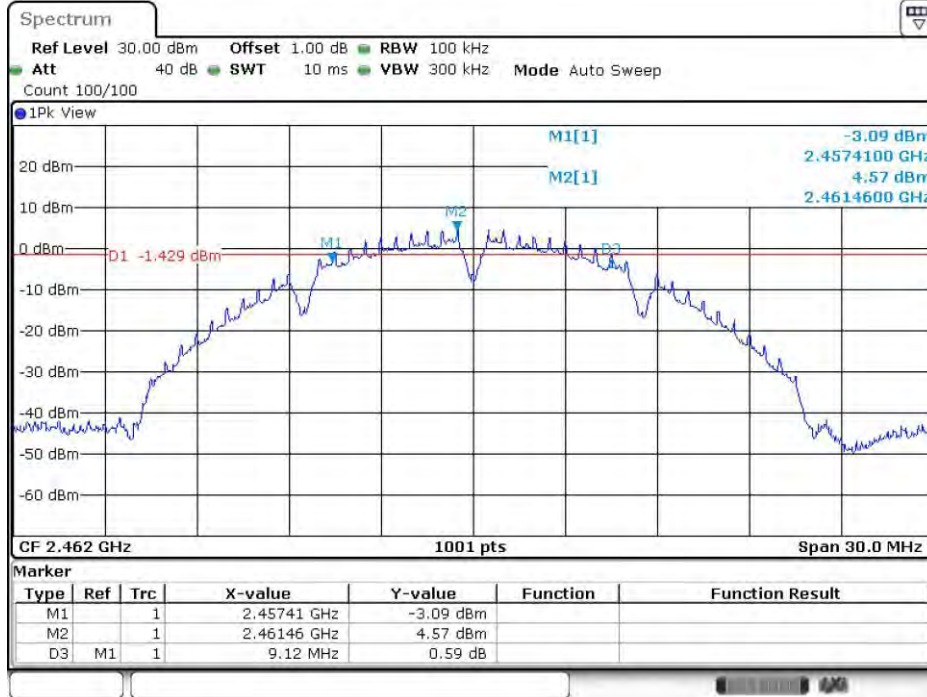


Date: 14 JAN 2021 16:04:13

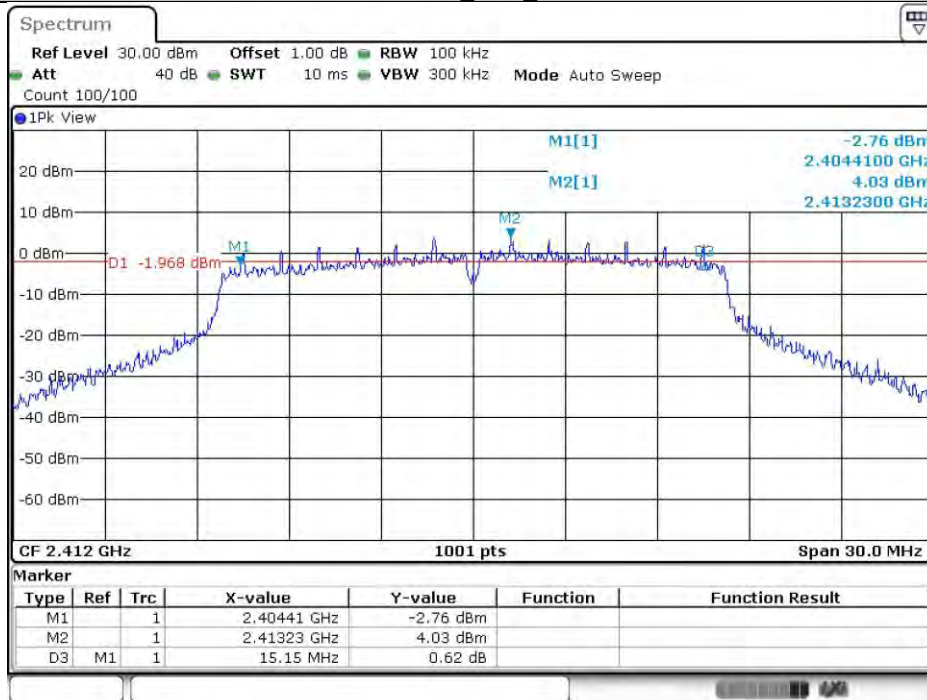


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### 11B-CDD Ant7 2462

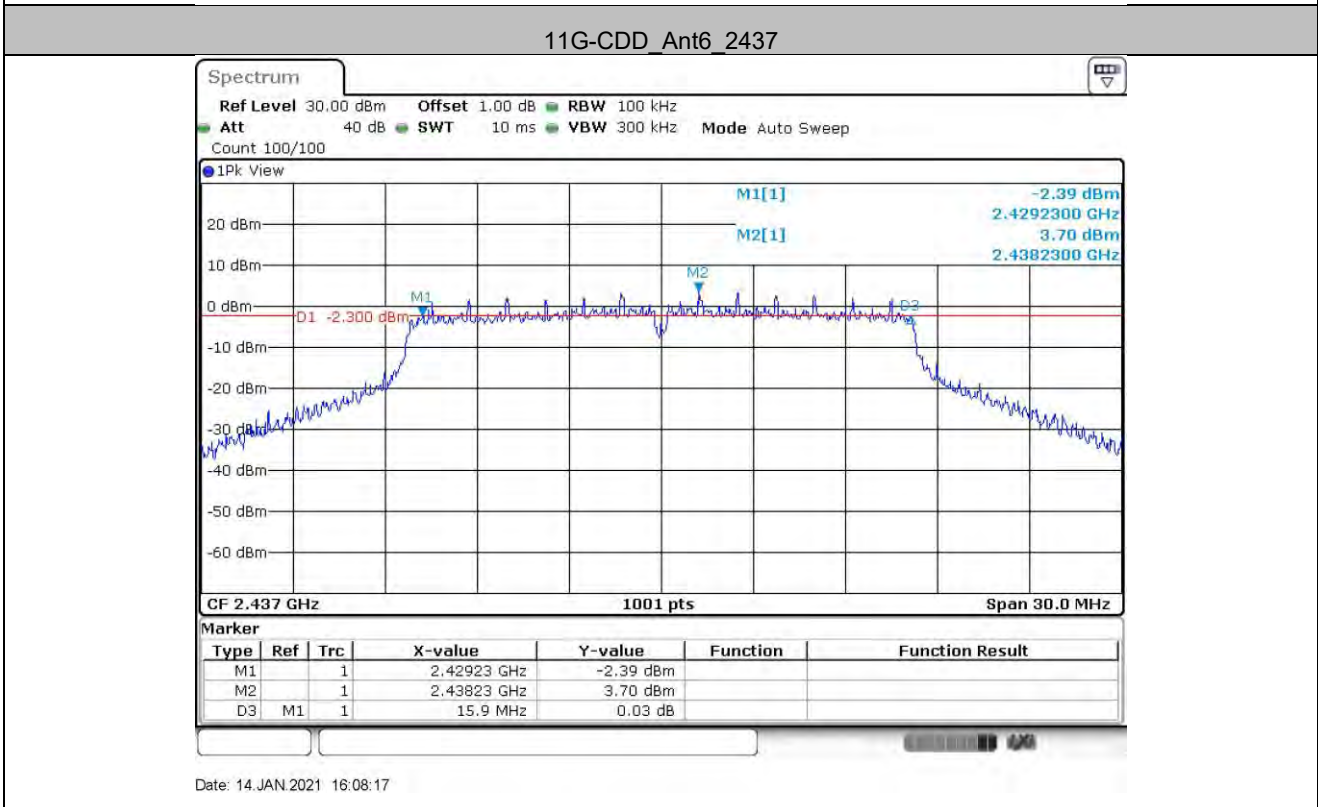
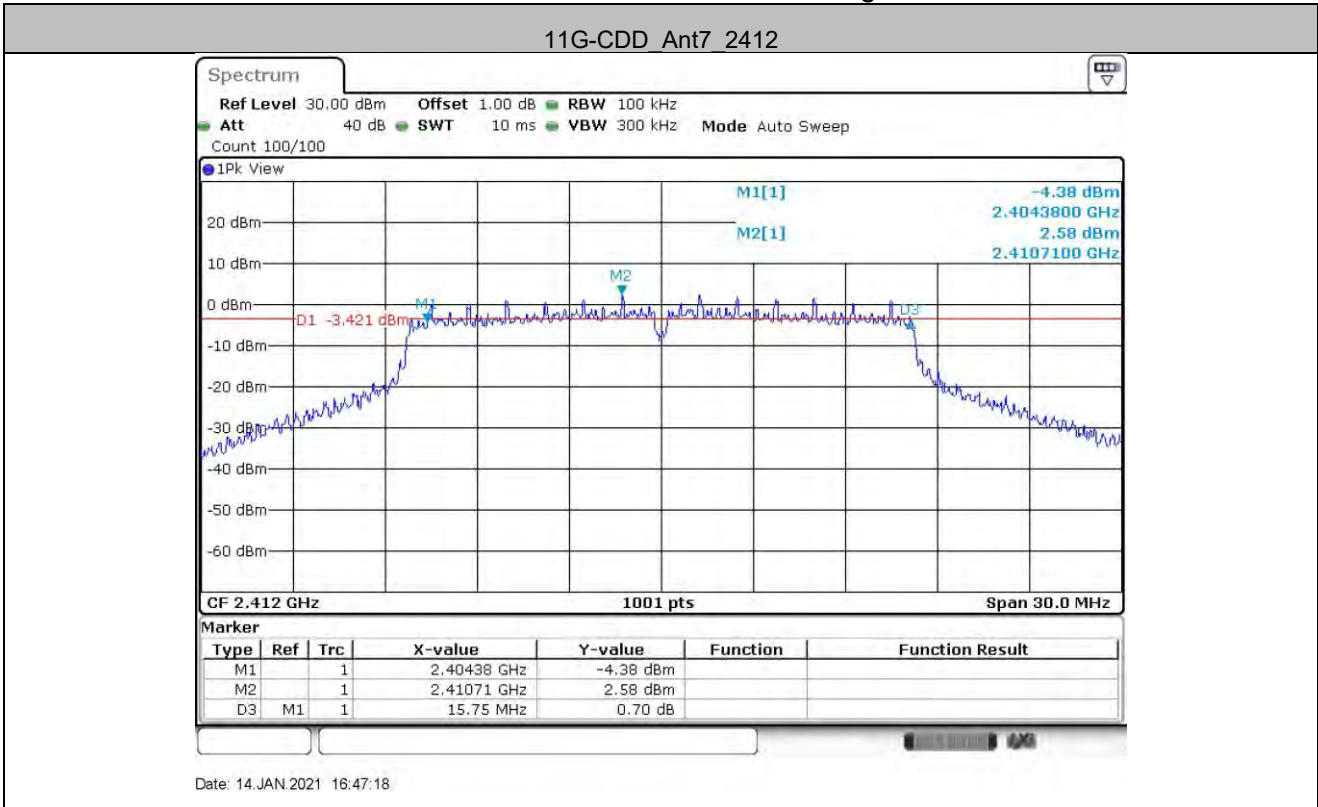


### 11G-CDD Ant6 2412

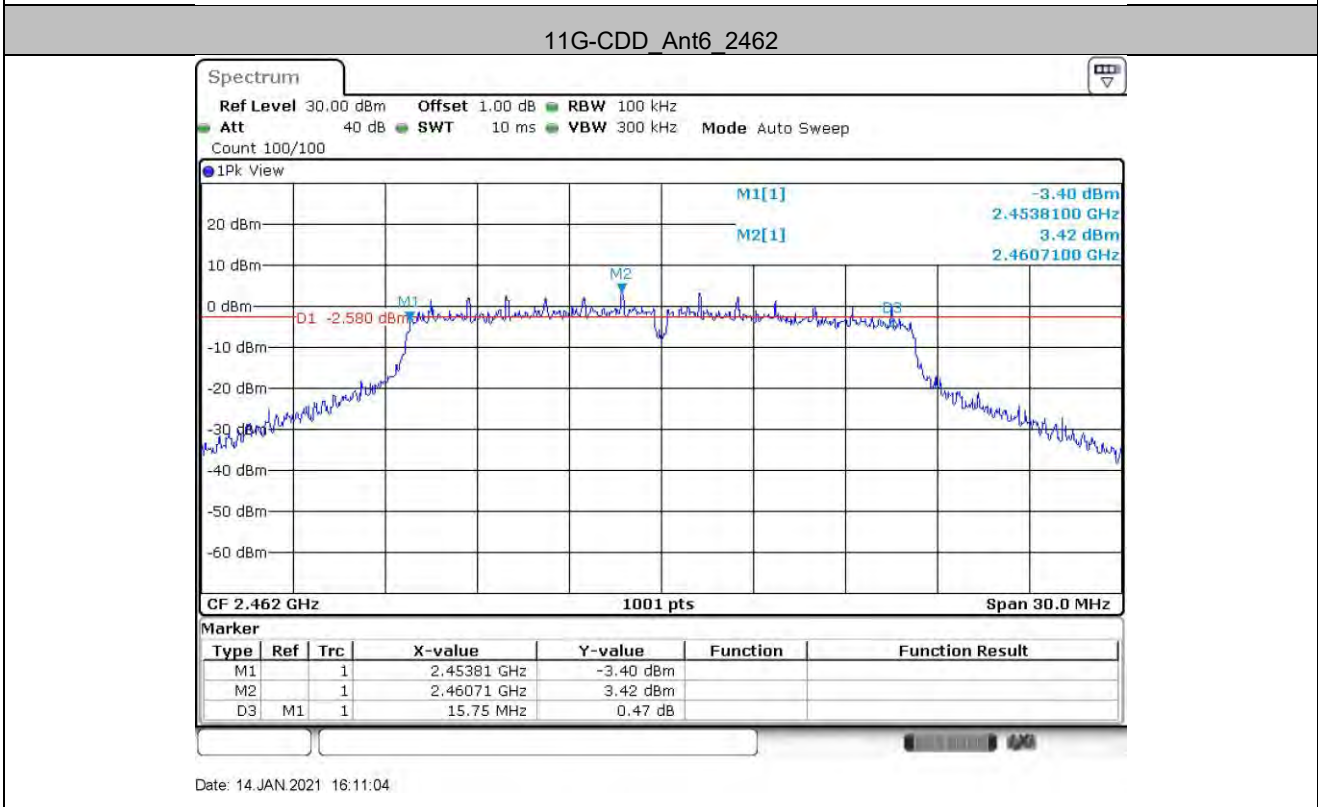
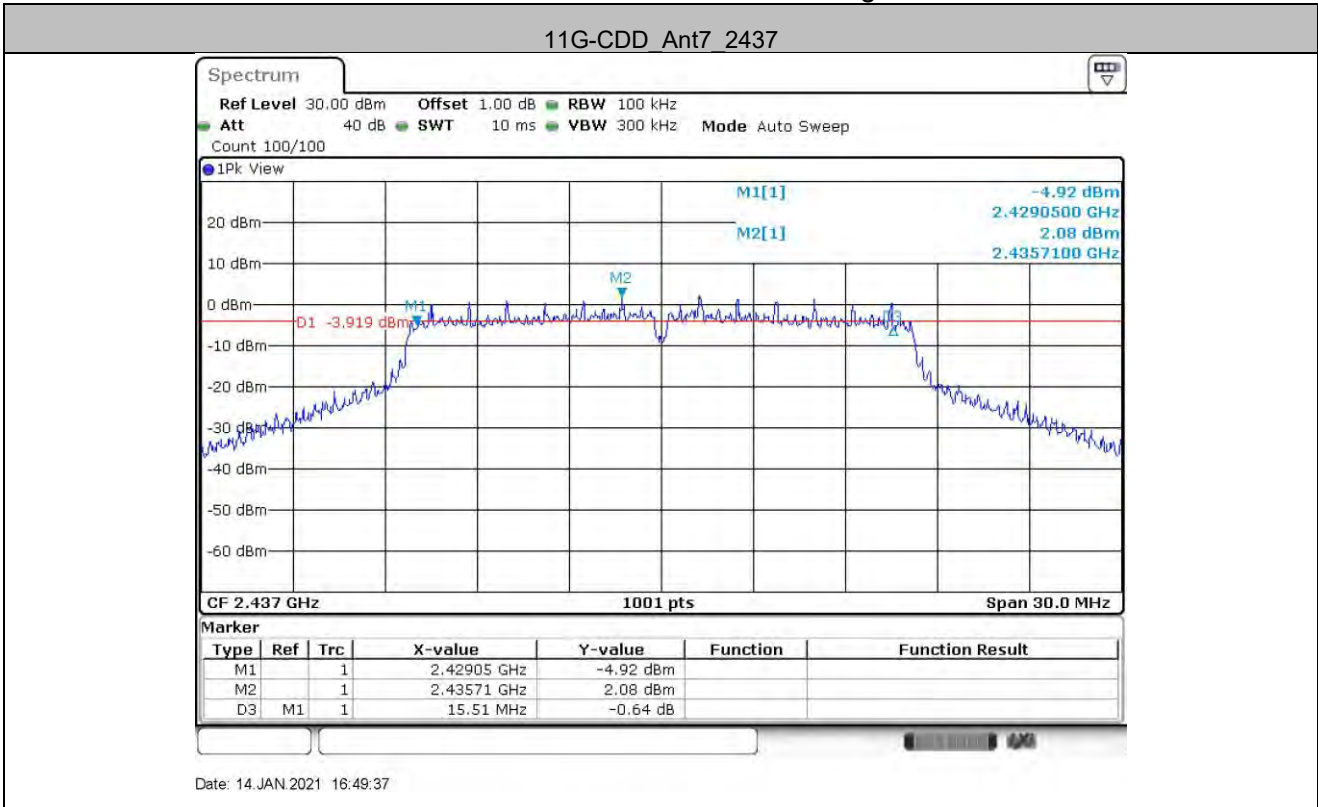


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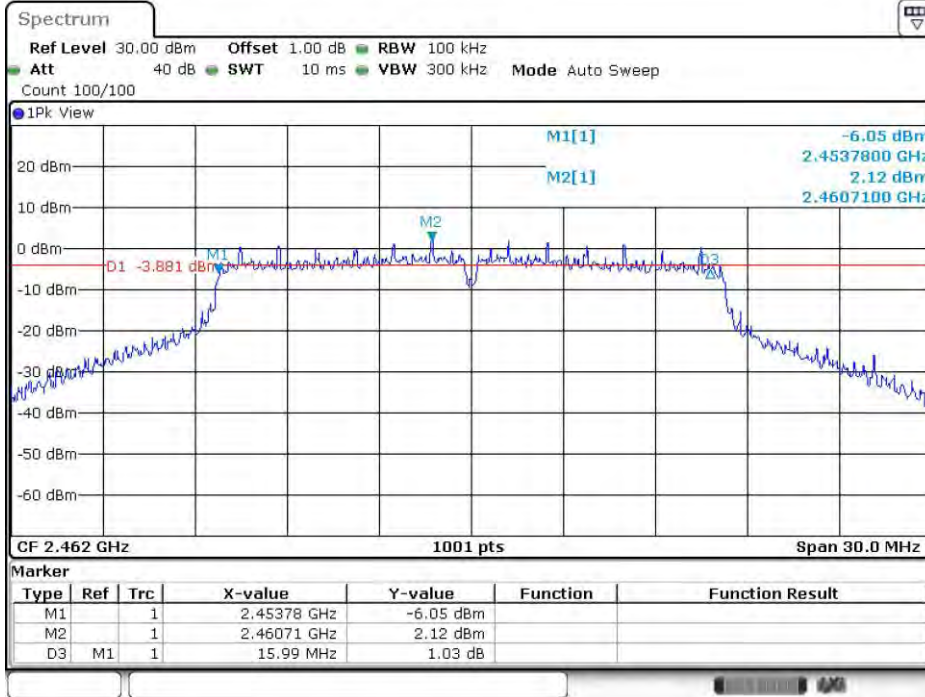
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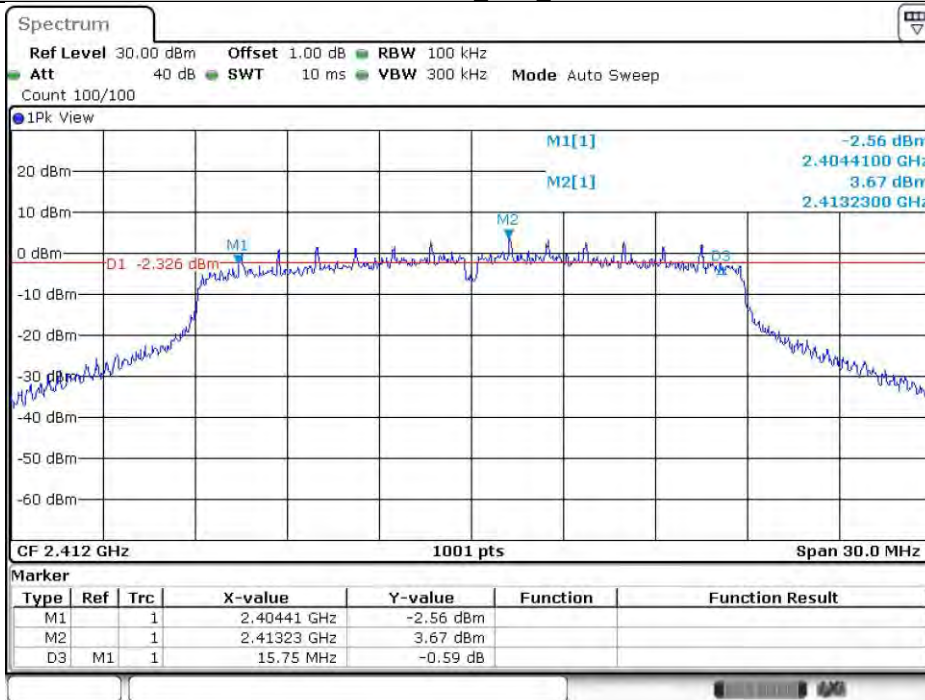
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### 11G-CDD Ant7 2462



Date: 14 JAN 2021 16:51:06

### 11N20MIMO Ant6 2412



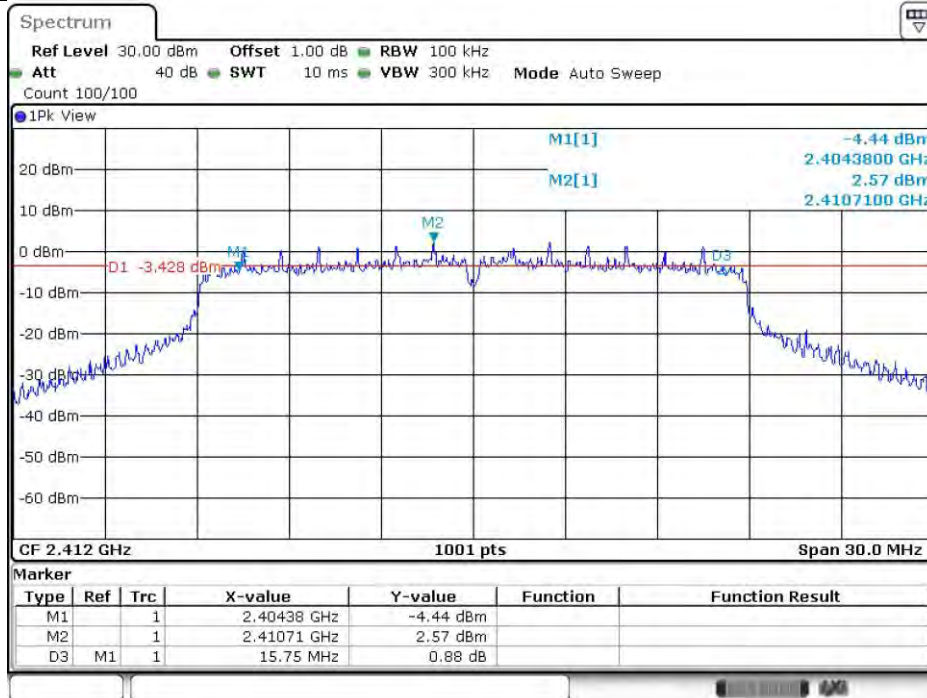
Date: 14 JAN 2021 16:12:48



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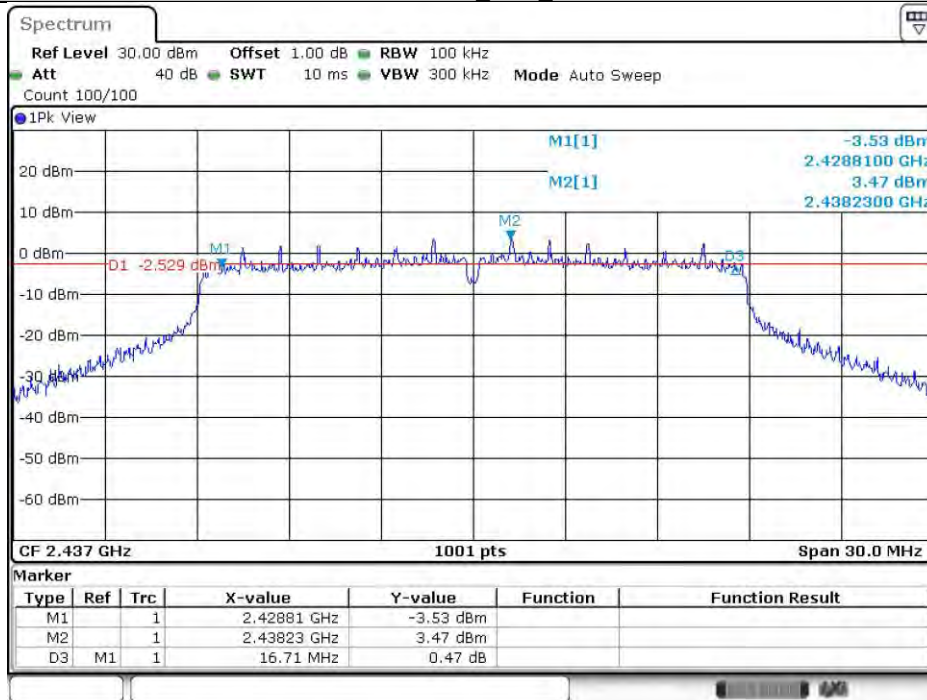


### 11N20MIMO Ant7 2412



Date: 14 JAN 2021 16:53:09

### 11N20MIMO Ant6 2437



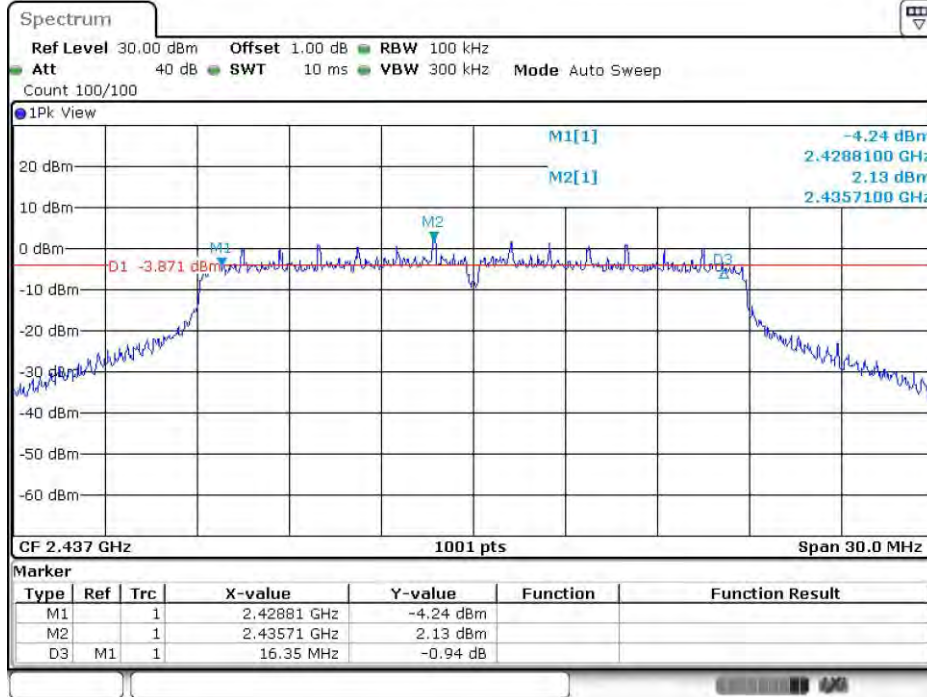
Date: 14 JAN 2021 16:14:38



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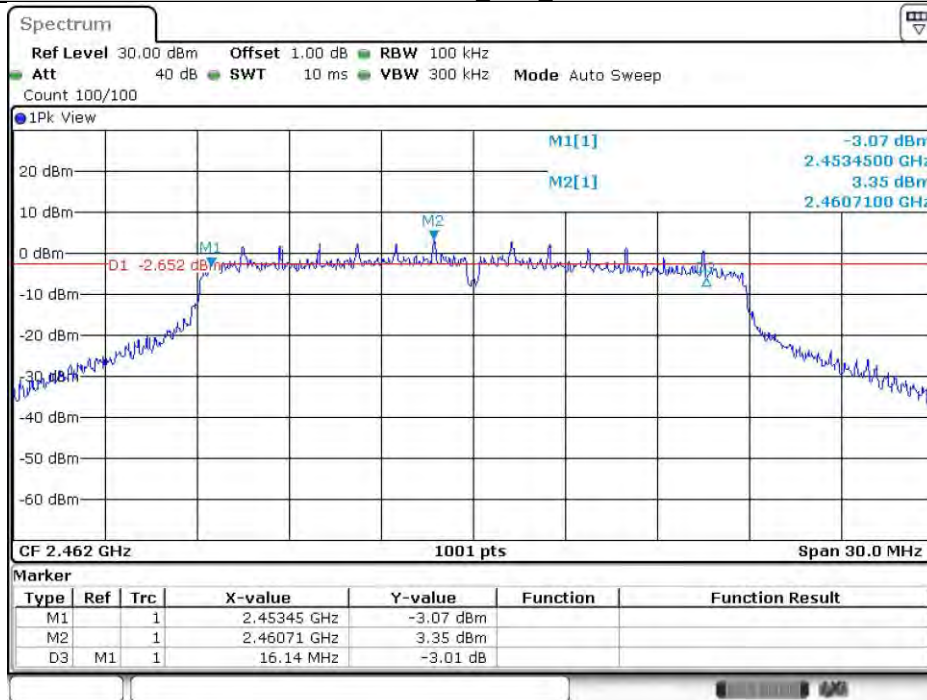
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### 11N20MIMO Ant7 2437



Date: 14 JAN 2021 16:55:13

### 11N20MIMO Ant6 2462

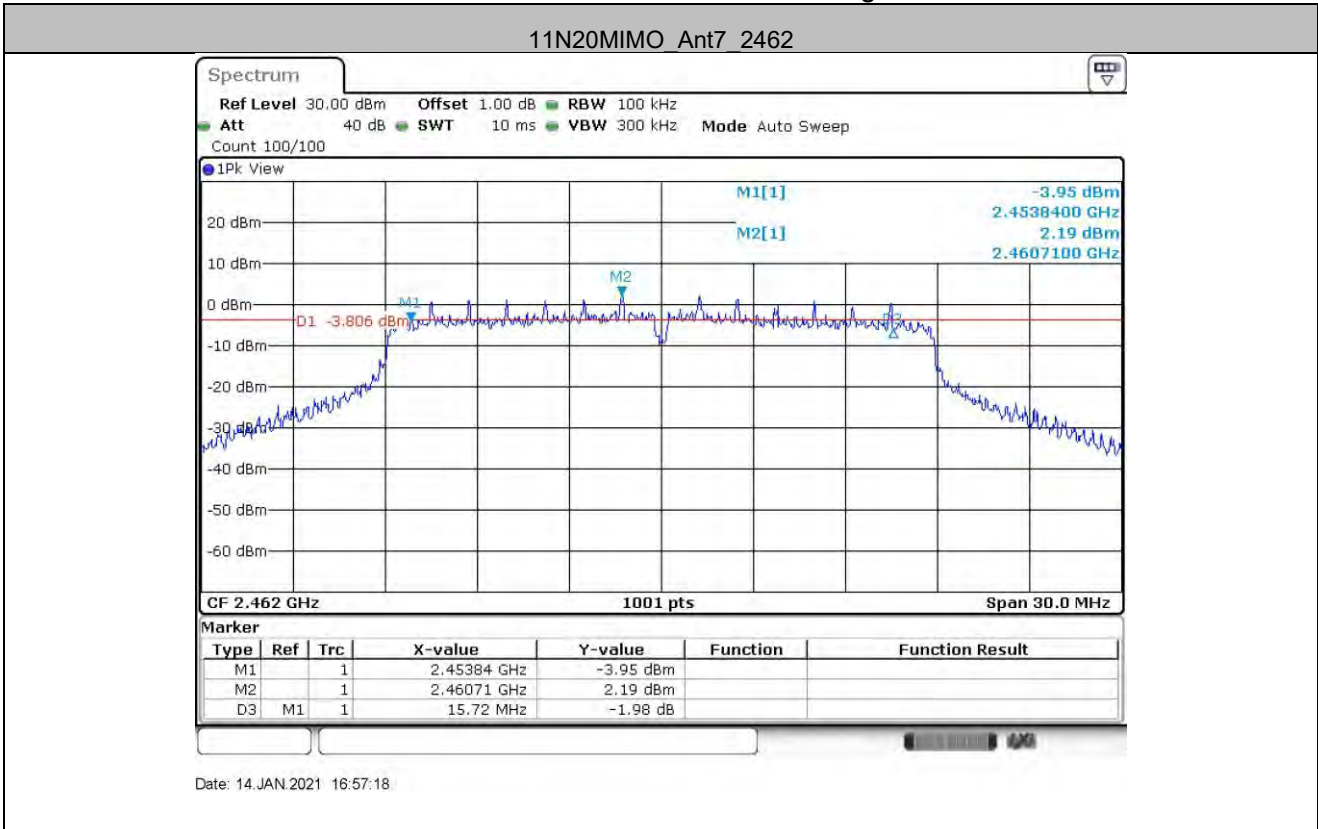


Date: 14 JAN 2021 16:16:07



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**Occupied Channel Bandwidth**  
**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant6	2412	13.427	2405.556	2418.983	---	PASS
	Ant7	2412	13.846	2405.197	2419.043	---	PASS
	Ant6	2437	13.876	2430.257	2444.133	---	PASS
	Ant7	2437	13.876	2430.077	2443.953	---	PASS
	Ant6	2462	13.846	2454.987	2468.833	---	PASS
	Ant7	2462	13.906	2454.987	2468.893	---	PASS
11G	Ant6	2412	17.982	2403.069	2421.051	---	PASS
	Ant7	2412	16.813	2403.608	2420.422	---	PASS
	Ant6	2437	17.982	2427.979	2445.961	---	PASS
	Ant7	2437	16.843	2428.548	2445.392	---	PASS
	Ant6	2462	18.012	2452.949	2470.961	---	PASS
	Ant7	2462	16.873	2453.489	2470.362	---	PASS
11N20SISO	Ant6	2412	17.802	2403.219	2421.021	---	PASS
	Ant7	2412	17.982	2403.069	2421.051	---	PASS
	Ant6	2437	18.042	2428.009	2446.051	---	PASS
	Ant7	2437	17.982	2427.979	2445.961	---	PASS
	Ant6	2462	17.952	2452.949	2470.901	---	PASS
	Ant7	2462	17.982	2452.949	2470.931	---	PASS
11B-CDD	Ant6	2412	13.606	2405.467	2419.073	---	PASS
	Ant7	2412	13.876	2405.137	2419.013	---	PASS
	Ant6	2437	13.996	2430.107	2444.103	---	PASS
	Ant7	2437	13.936	2430.047	2443.983	---	PASS
	Ant6	2462	13.816	2454.927	2468.743	---	PASS
	Ant7	2462	13.966	2454.957	2468.923	---	PASS
11G-CDD	Ant6	2412	16.663	2403.758	2420.422	---	PASS
	Ant7	2412	16.783	2403.638	2420.422	---	PASS
	Ant6	2437	16.903	2428.578	2445.482	---	PASS
	Ant7	2437	16.843	2428.548	2445.392	---	PASS



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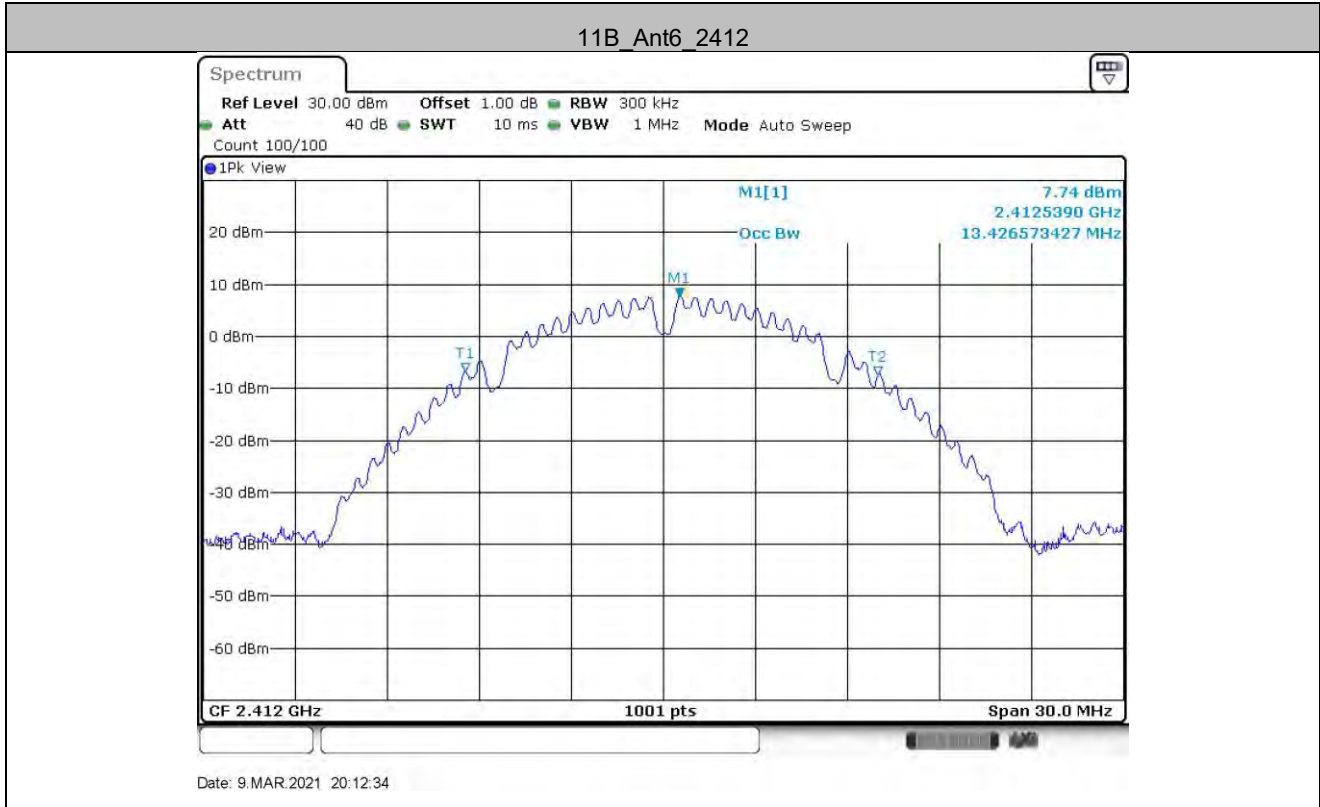
	Ant6	2462	16.843	2453.459	2470.302	---	PASS
	Ant7	2462	16.843	2453.489	2470.332	---	PASS
11N20MIMO	Ant6	2412	17.802	2403.189	2420.991	---	PASS
	Ant7	2412	17.952	2403.069	2421.021	---	PASS
	Ant6	2437	18.042	2428.009	2446.051	---	PASS
	Ant7	2437	18.012	2427.979	2445.991	---	PASS
	Ant6	2462	17.982	2452.919	2470.901	---	PASS
	Ant7	2462	17.952	2452.949	2470.901	---	PASS



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### Test Graphs



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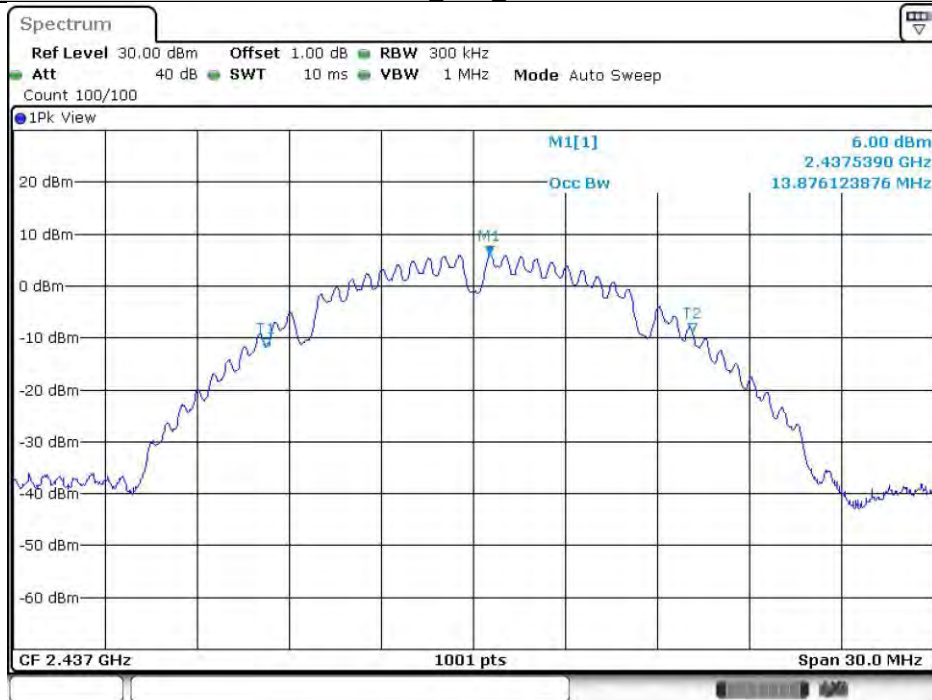
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### 11B Ant7 2412



Date: 14 JAN 2021 15:39:18

### 11B Ant6 2437



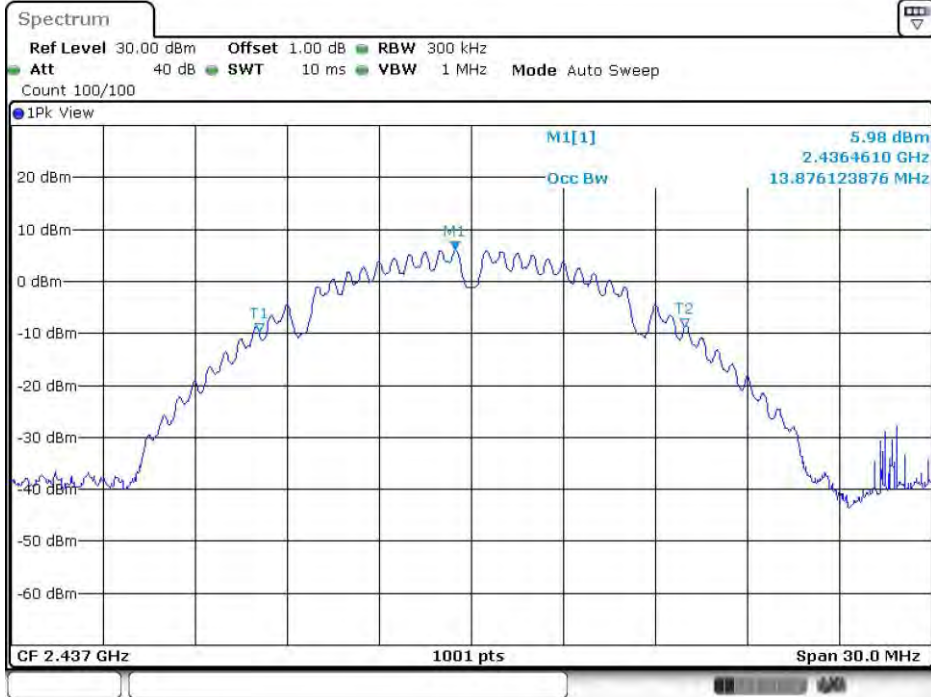
Date: 9.MAR.2021 20:14:30



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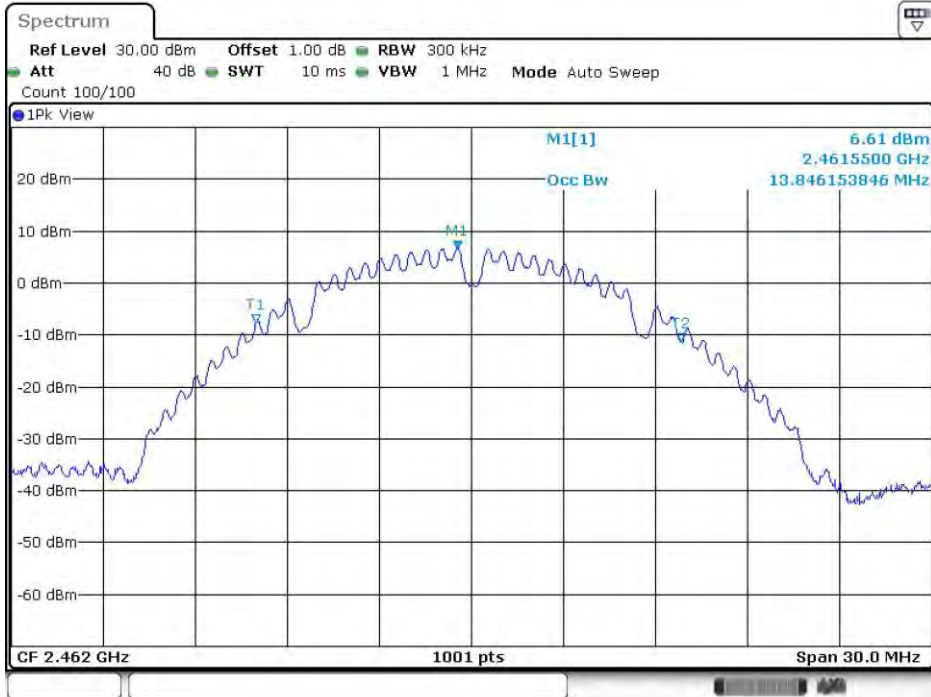
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### 11B Ant7 2437



Date: 14 JAN 2021 15:41:24

### 11B Ant6 2462



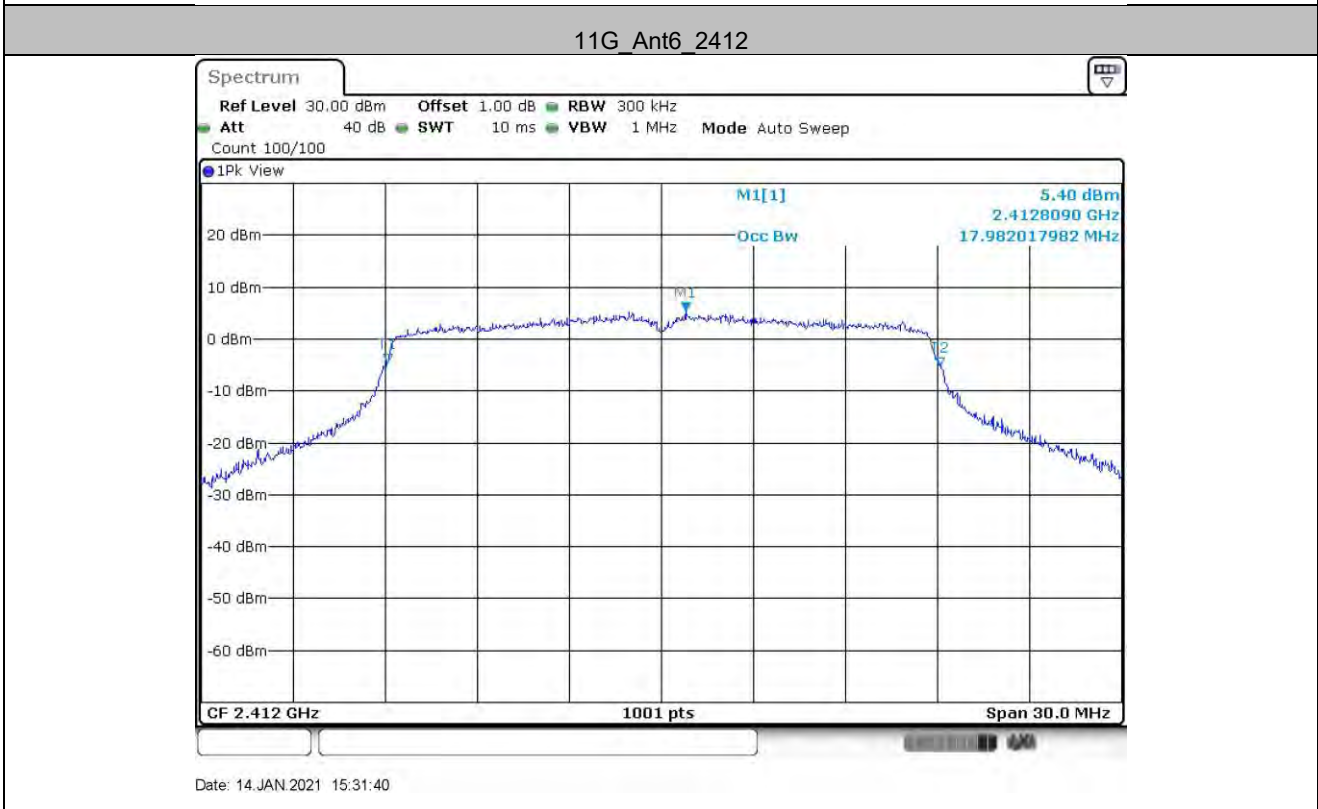
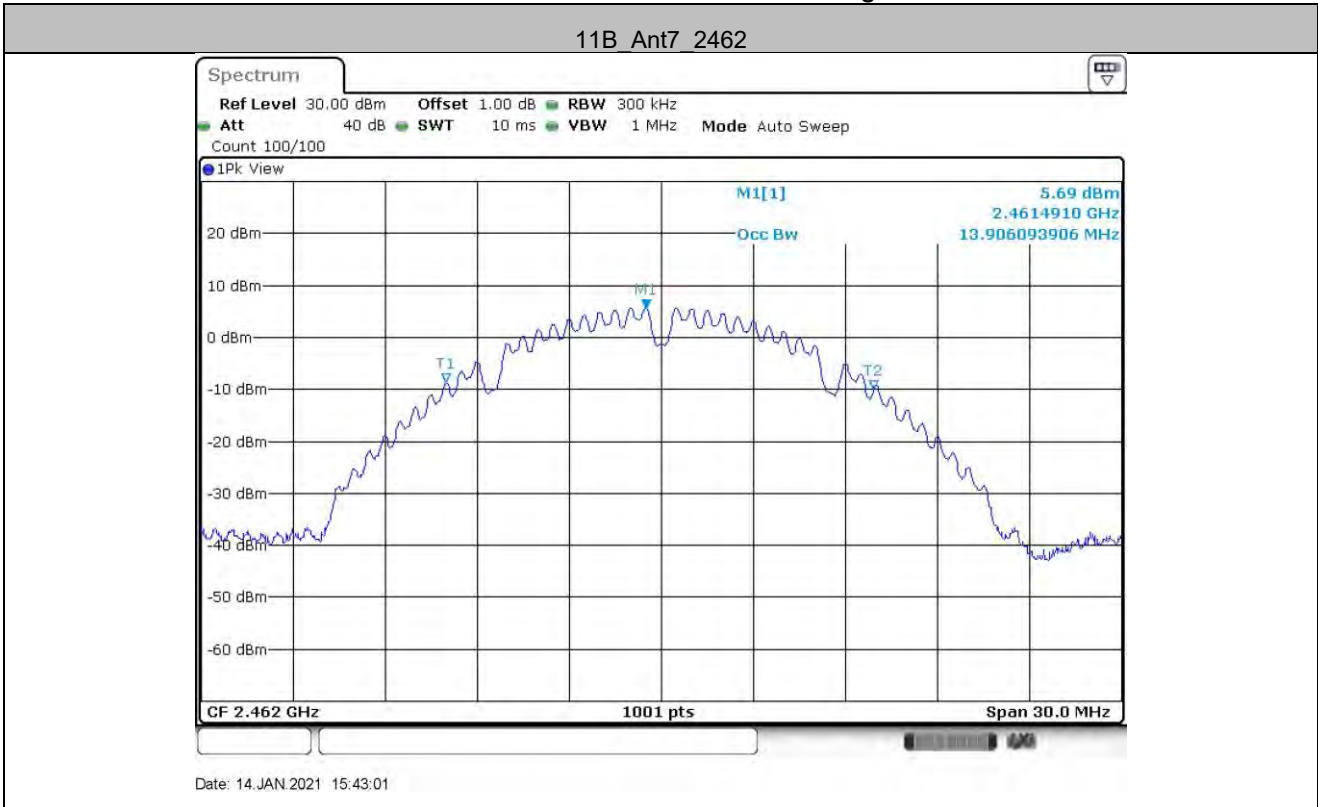
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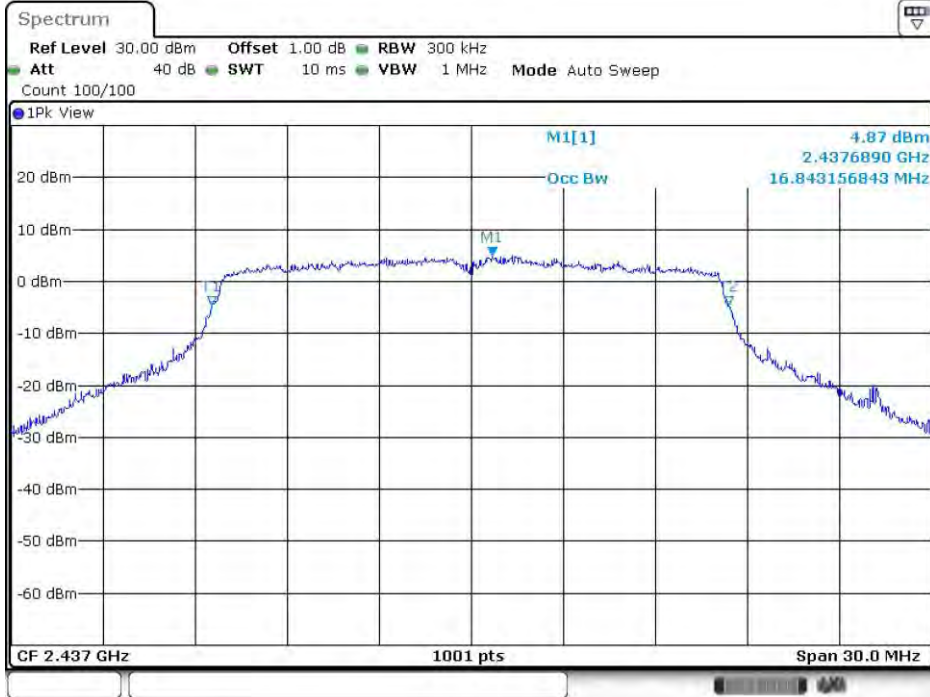
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### 11G Ant7 2437



Date: 14 JAN 2021 15:47:06

### 11G Ant6 2462

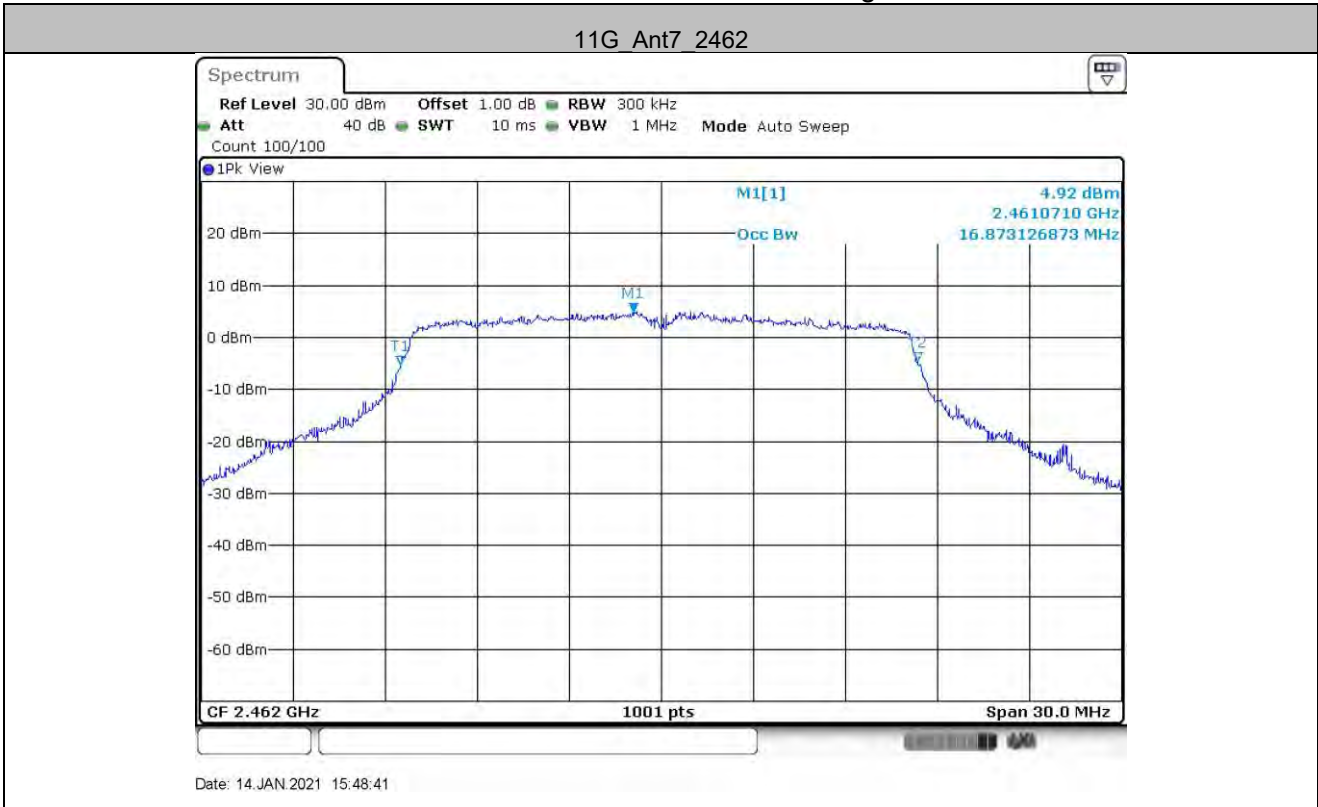


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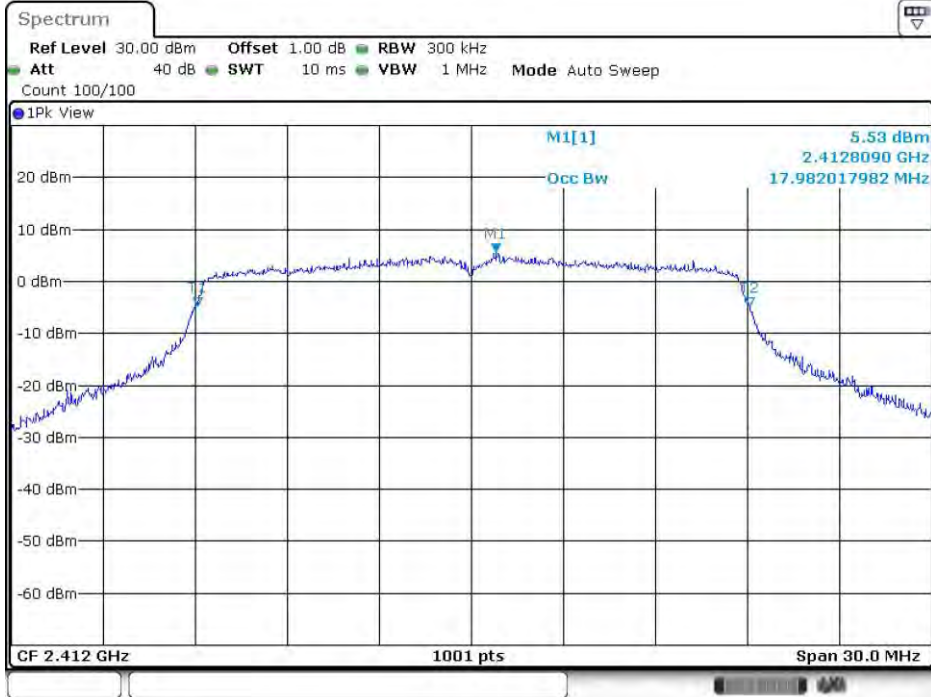


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### 11N20SISO Ant7 2412



Date: 14 JAN 2021 15:50:29

### 11N20SISO Ant6 2437



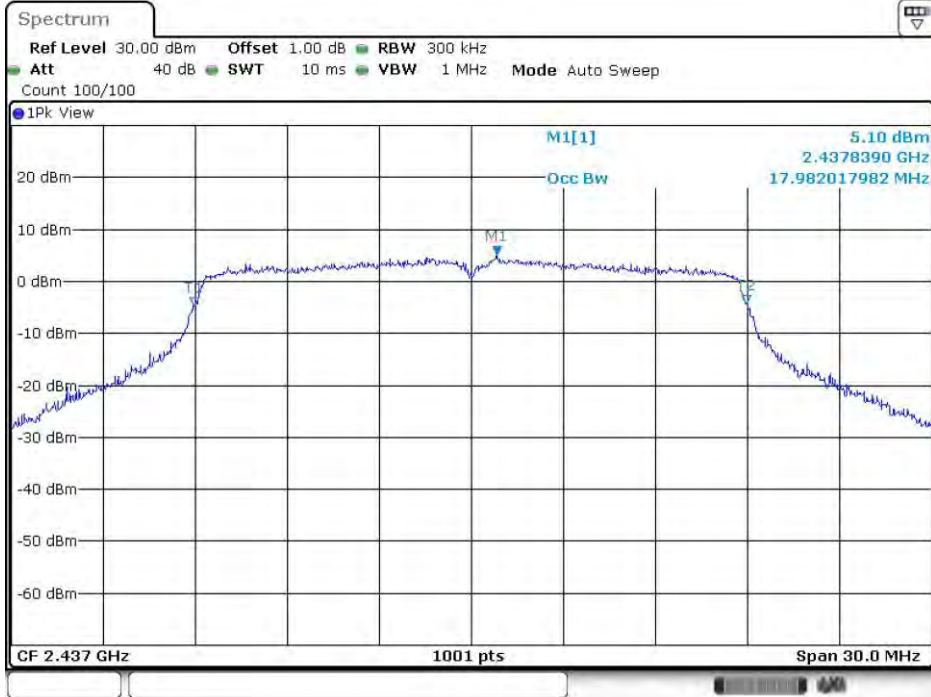
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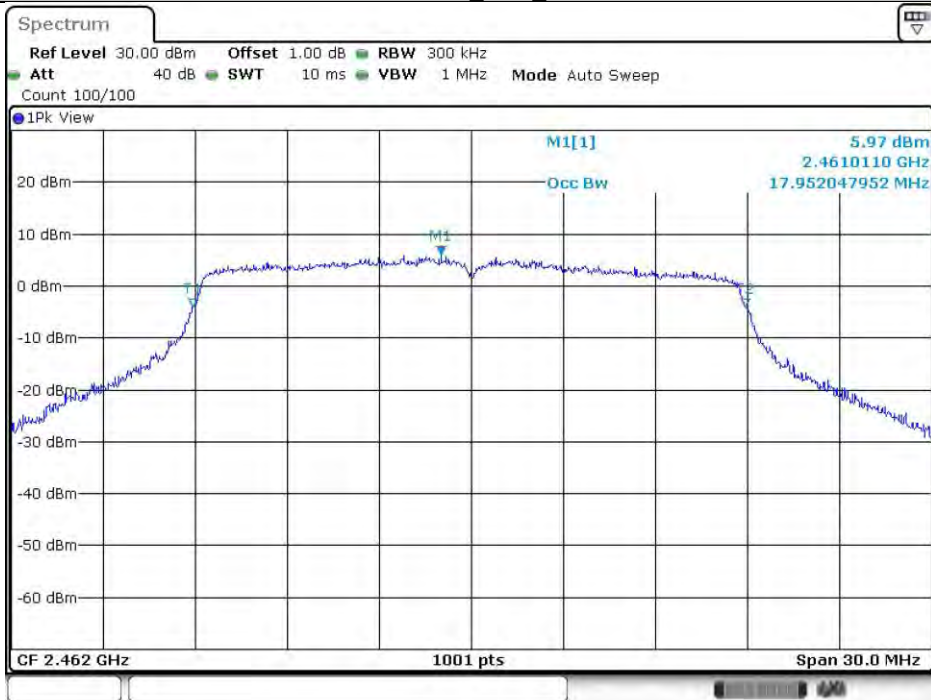
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### 11N20SISO Ant7 2437



Date: 14 JAN 2021 15:52:07

### 11N20SISO Ant6 2462



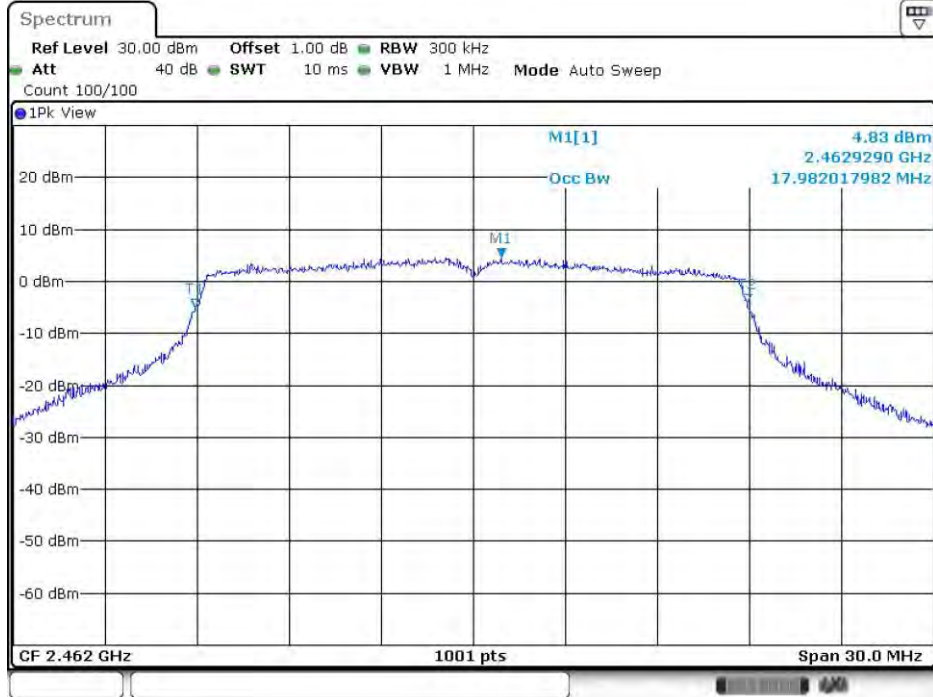
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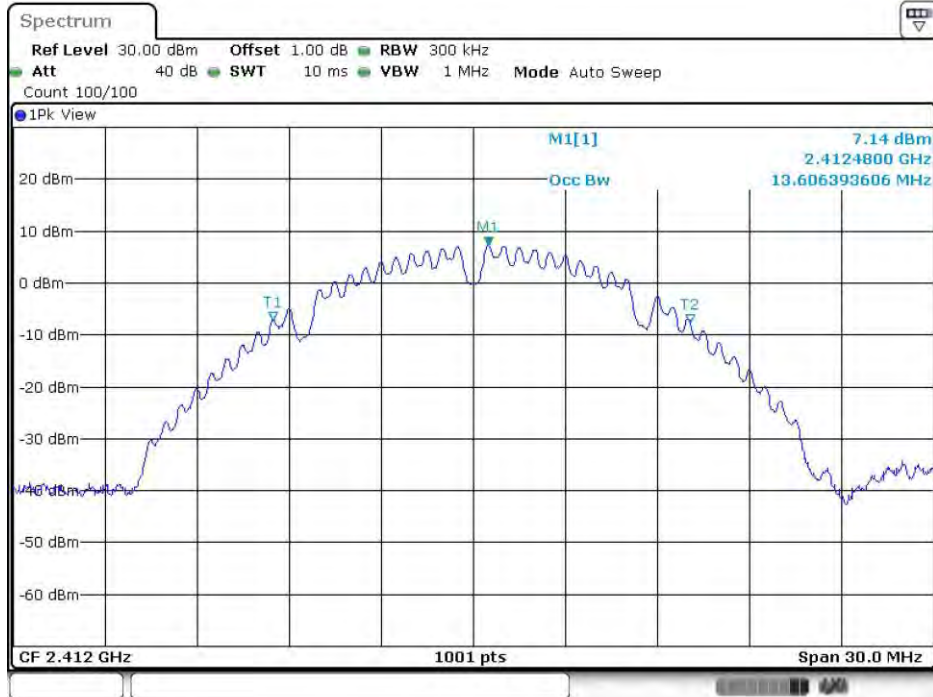
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### 11N20SISO Ant7 2462



Date: 14 JAN 2021 15:54:51

### 11B-CDD Ant6 2412



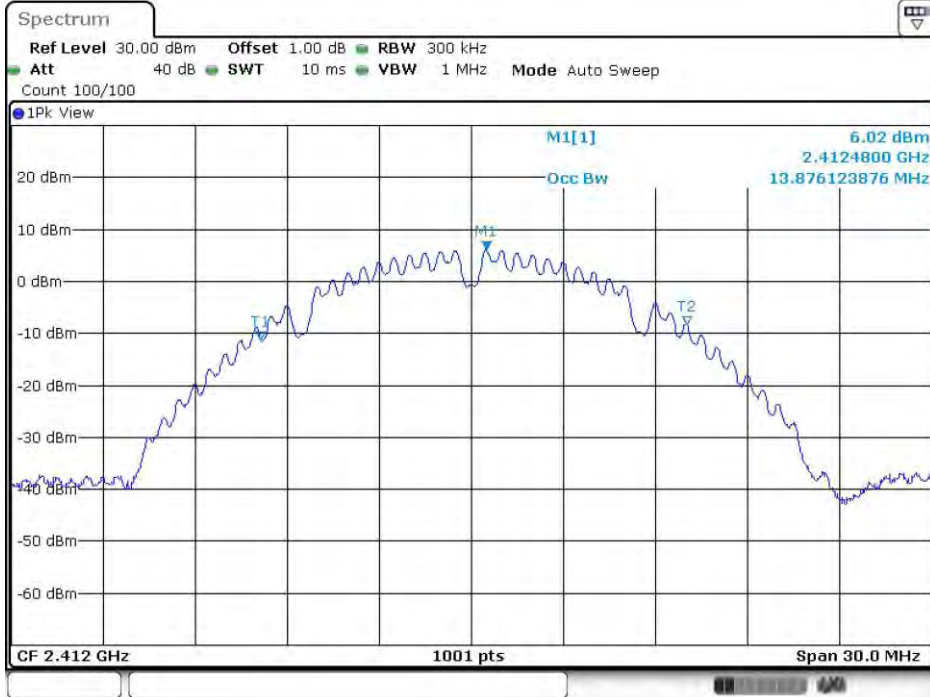
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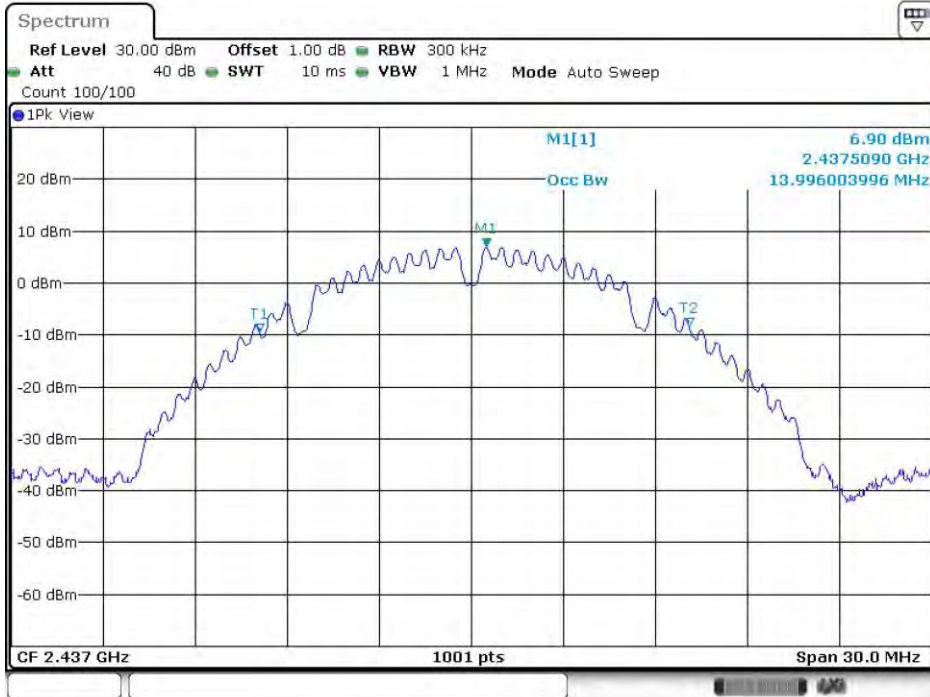
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### 11B-CDD Ant7 2412



Date: 14 JAN 2021 16:39:43

### 11B-CDD Ant6 2437



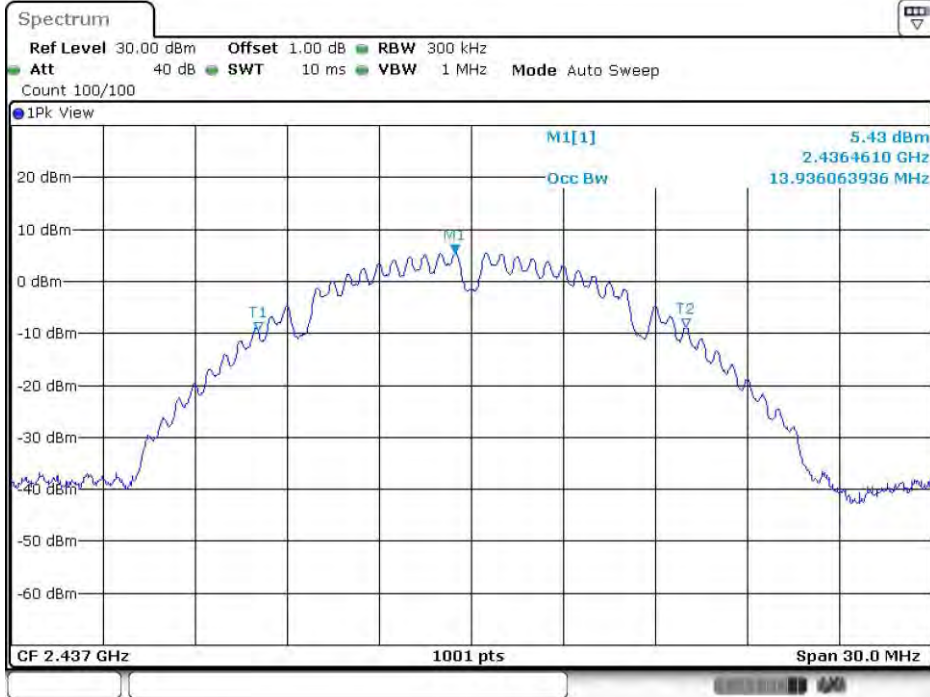
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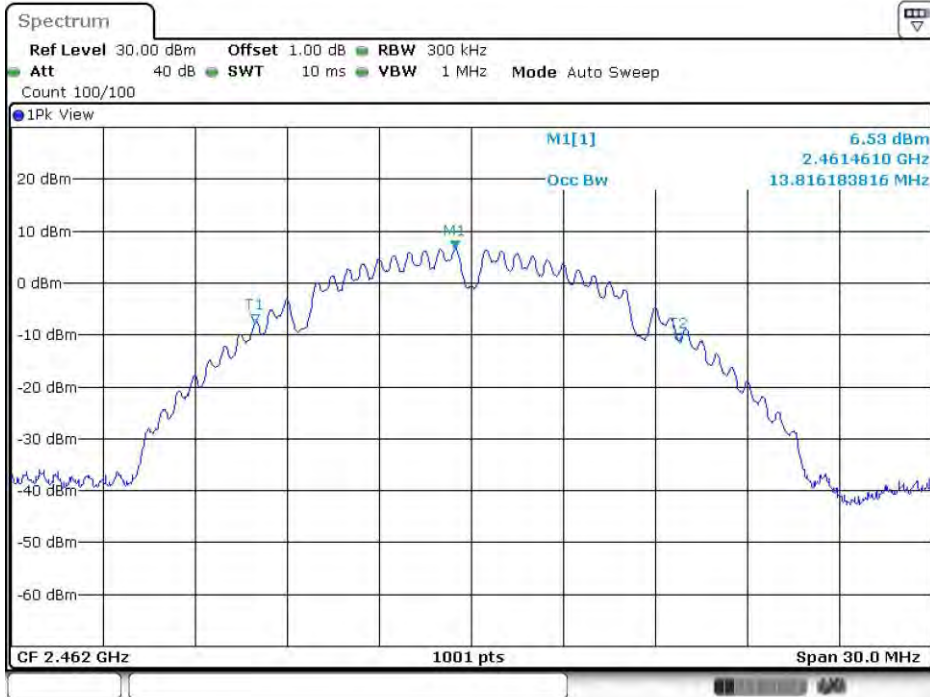


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Date: 14 JAN 2021 16:42:00

### 11B-CDD Ant6 2462



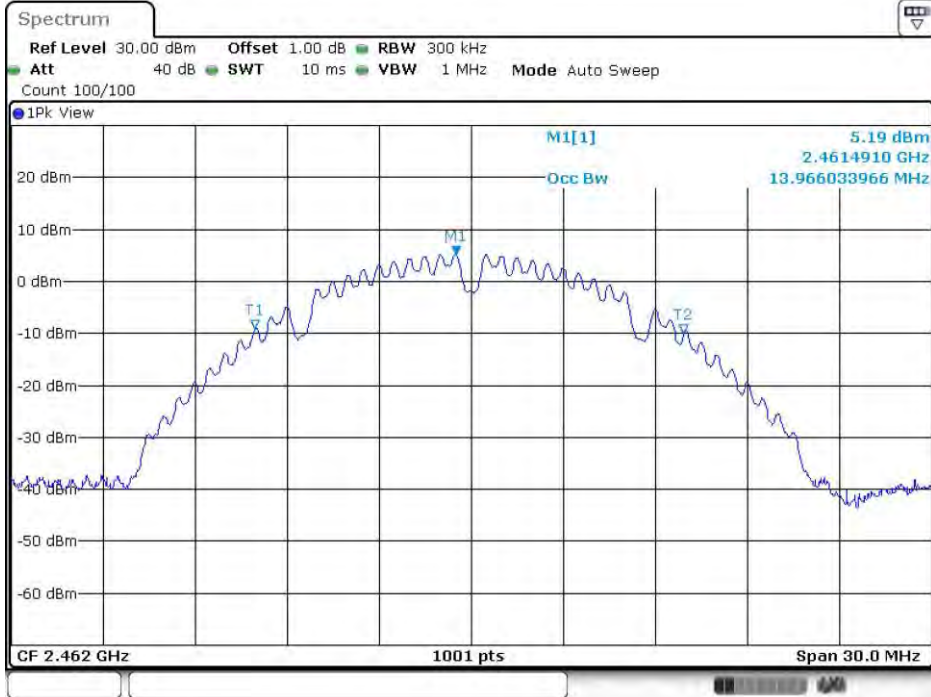
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### 11B-CDD Ant7 2462



Date: 14 JAN 2021 16:43:41

### 11G-CDD Ant6 2412



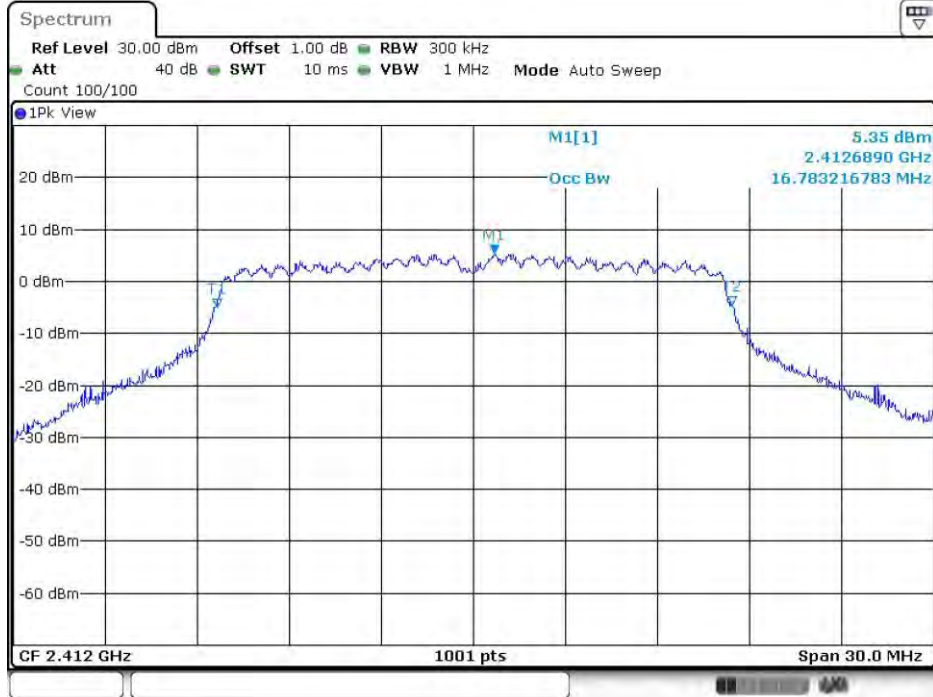
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### 11G-CDD Ant7 2412



Date: 14 JAN 2021 16:47:28

### 11G-CDD Ant6 2437



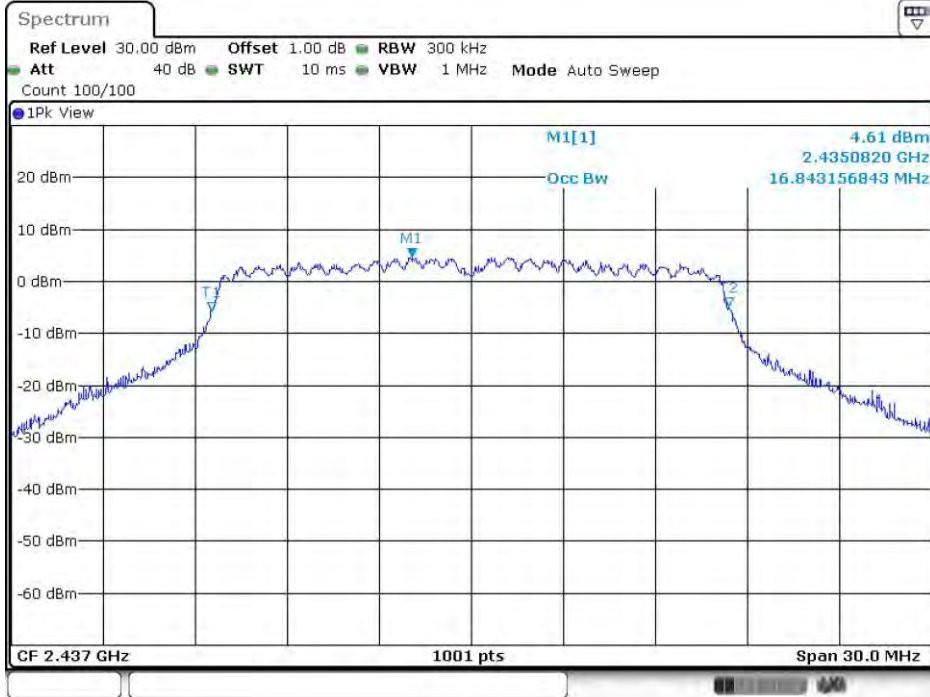
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### 11G-CDD Ant7 2437



Date: 14 JAN 2021 16:49:46

### 11G-CDD Ant6 2462



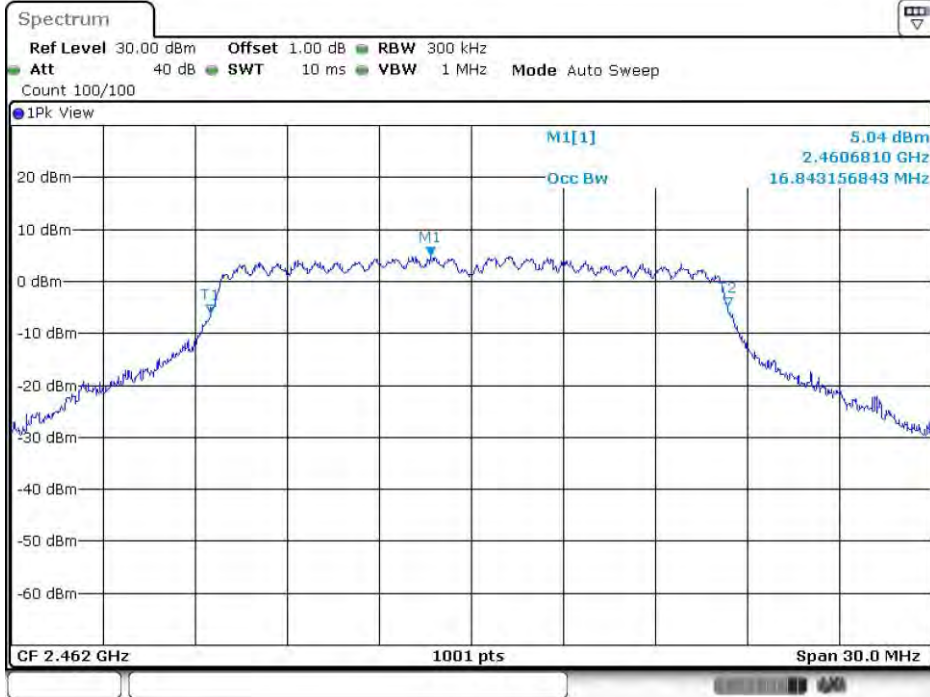
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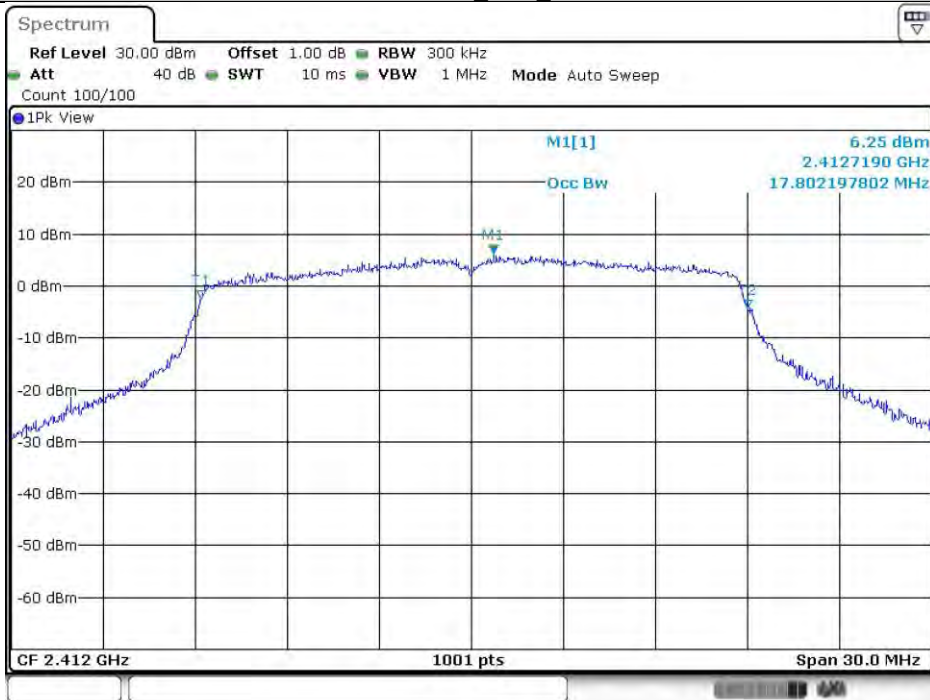
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### 11G-CDD Ant7 2462



Date: 14 JAN 2021 16:51:16

### 11N20MIMO Ant6 2412



Date: 14 JAN 2021 16:12:58

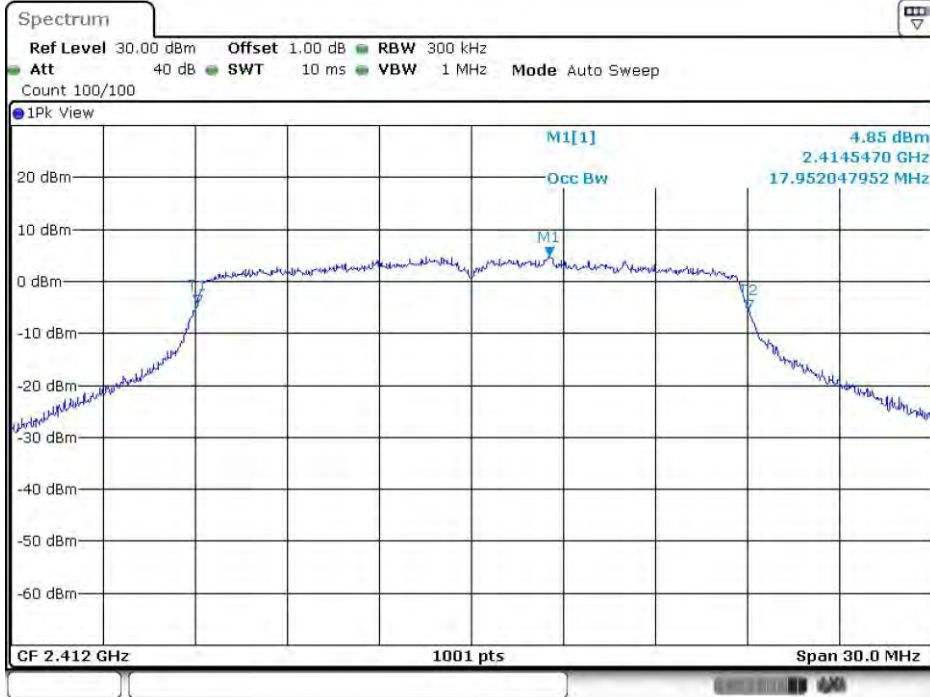


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### 11N20MIMO Ant7 2412



Date: 14 JAN 2021 16:53:19

### 11N20MIMO Ant6 2437

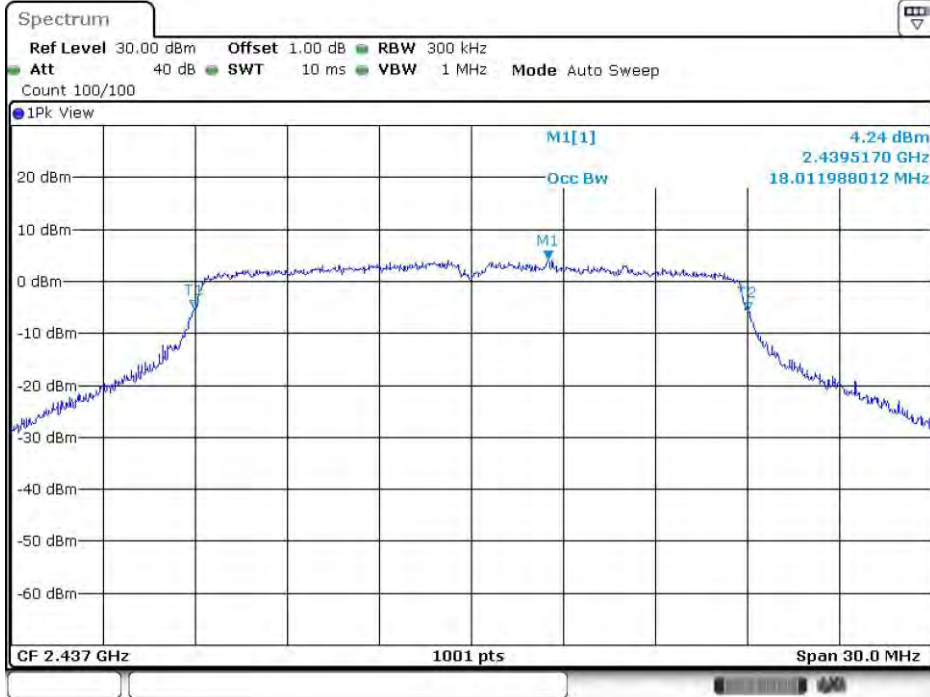


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### 11N20MIMO Ant7 2437



Date: 14 JAN 2021 16:55:23

### 11N20MIMO Ant6 2462



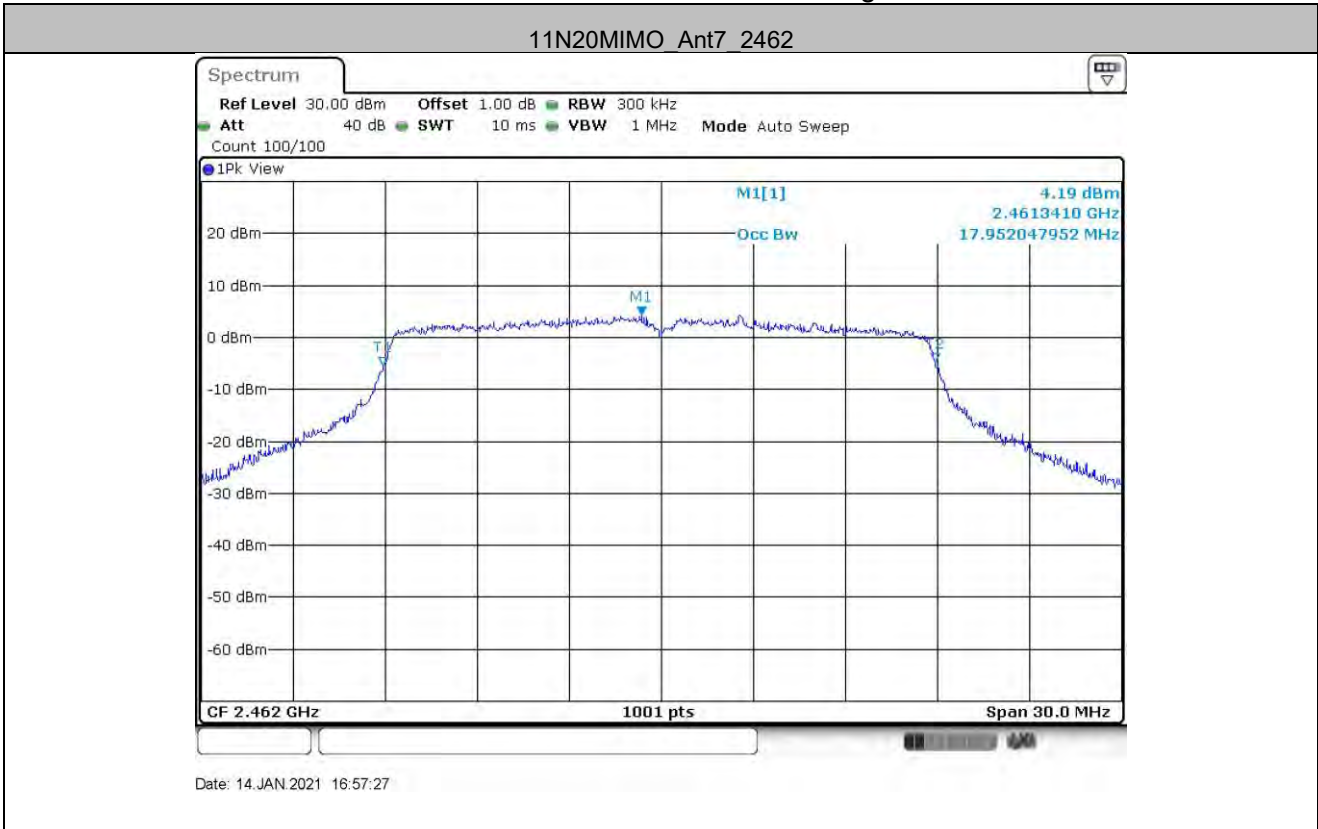
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**Maximum conducted output power**

**Test Result**

ANT6:

Mode	Channel	Frequency(MHz)	Average Power (dBm)
802.11b	1	2412	14.78
	6	2437	14.79
	11	2462	15.42
802.11g	1	2412	14.54
	6	2437	14.29
	11	2462	13.99
802.11n HT20	1	2412	14.21
	6	2437	14.45
	11	2462	13.56

ANT7:

Mode	Channel	Frequency(MHz)	Average Power (dBm)
802.11b	1	2412	15.24
	6	2437	14.96
	11	2462	14.85
802.11g	1	2412	14.05
	6	2437	13.81
	11	2462	13.89
802.11n HT20	1	2412	14.17
	6	2437	13.97
	11	2462	14.23

MIMO:

Mode	Channel	Frequency(MHz)	ANT6: Average Power (dBm)	ANT7: Average Power (dBm)	MIMO: Average Power (dBm)
802.11b	1	2412	15.45	14.96	18.22
	6	2437	15.98	14.95	18.55
	11	2462	15.18	14.75	17.82
802.11g	1	2412	14.26	14.54	17.33
	6	2437	14.69	13.88	17.23
	11	2462	13.71	13.51	16.41
802.11n HT20	1	2412	14.01	13.93	17.26
	6	2437	14.34	14.08	17.25
	11	2462	14.29	13.94	16.93



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**Maximum power spectral density**

**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Verdict
11B	Ant6	2412	-5.93	PASS
	Ant7	2412	-6.7	PASS
	Ant6	2437	-6.76	PASS
	Ant7	2437	-6.83	PASS
	Ant6	2462	-6.54	PASS
	Ant7	2462	-7.39	PASS
11G	Ant6	2412	-10.77	PASS
	Ant7	2412	-11.62	PASS
	Ant6	2437	-11.66	PASS
	Ant7	2437	-11.61	PASS
	Ant6	2462	-11.65	PASS
	Ant7	2462	-12.3	PASS
11N20SISO	Ant6	2412	-10.12	PASS
	Ant7	2412	-11.62	PASS
	Ant6	2437	-11.14	PASS
	Ant7	2437	-12	PASS
	Ant6	2462	-10.22	PASS
	Ant7	2462	-11.2	PASS
11B-CDD	Ant6	2412	-6.18	PASS
	Ant7	2412	-7.47	PASS
	total	2412	-3.77	PASS
	Ant6	2437	-6.2	PASS
	Ant7	2437	-7.95	PASS
	total	2437	-3.98	PASS
	Ant6	2462	-6.66	PASS
	Ant7	2462	-7.97	PASS
	total	2462	-4.26	PASS
11G-CDD	Ant6	2412	-10.99	PASS



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