

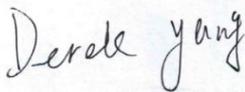
## FCC TEST REPORT

**Application No.:** AR/2020/B0003  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2101K9AG  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZK9AG  
**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR Part 15, Subpart C  
**Date of Receipt:** 2020/11/26  
**Date of Test:** 2020/11/26 to 2020/12/15  
**Date of Issue:** 2021/4/22

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



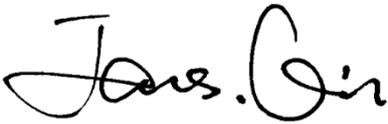
Derek Yang  
Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-15		Original
02		2021-4-22	James Qin	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

Authorized for issue by:	
Prepared By	 (James Qin) / Engineer
Checked By	 (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

**Remark:**

All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A : SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

Lab B: SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD



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## Contents

1	Version .....	2
2	Test Summary.....	3
3	General Information .....	6
3.1	Details of Client.....	6
3.2	Test Location.....	6
3.3	Test Facility .....	7
3.4	General Description of EUT .....	8
3.5	Test Environment and Mode .....	9
3.6	Description of Support Units.....	9
4	Test results and Measurement Data .....	10
4.1	Antenna Requirement.....	10
4.2	AC Power Line Conducted Emissions .....	11
4.3	Duty Cycle .....	15
4.4	Conducted Output Power.....	16
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth .....	17
4.6	Power Spectral Density .....	18
4.7	Band-edge for RF Conducted Emissions .....	19
4.8	RF Conducted Spurious Emissions.....	20
4.9	Radiated Spurious Emissions .....	21
4.9.1	Radiated emission below 1GHz.....	24
4.9.2	Transmitter emission above 1GHz .....	26
4.10	Restricted bands around fundamental frequency .....	50
4.10.1	Test Plots.....	52
5	Measurement Uncertainty (95% confidence levels, k=2) .....	68
6	Equipment List .....	69
7	Photographs - EUT Constructional Details .....	71
	DTS Bandwidth.....	73
	Test Result .....	73
	Test Graphs.....	74
	Occupied Channel Bandwidth.....	81
	Test Result .....	81
	Test Graphs.....	82



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Maximum conducted output power ..... 89  
 Test Result ..... 89  
 Test Graphs..... 90  
 Maximum power spectral density ..... 97  
 Test Result ..... 97  
 Test Graphs..... 98  
 Band edge measurements..... 105  
 Test Result ..... 105  
 Test Graphs..... 106  
 Conducted Spurious Emission ..... 111  
 Test Result ..... 111  
 Test Graphs..... 113  
 Duty Cycle ..... 132  
 Test Result ..... 132  
 Test Graphs..... 133



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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
Test engineer:	Dee Zheng, Mike Hu

##### 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
Test engineer:	Ben Huang, Leah Chen



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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:	Mobile Phone
Model No.:	M2101K9AG
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12
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 checked="" type="checkbox"/> 802.11N (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$ , where: $-f_c = \text{"Operating Frequency" in MHz}$ , $-N = \text{"Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.}$
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM IEEE for 802.11N(HT40) : OFDM
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	IFA
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N), <input type="checkbox"/> MIMO (for 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	1.1dBi
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> Battery <input type="checkbox"/> PoE;; <input type="checkbox"/> Other:

#### 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		

#### Operation Frequency of each channel (802.11N HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				



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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)	Frequency for 802.11N (HT40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

### 3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

### 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 1.1dBi.</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>		



<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>

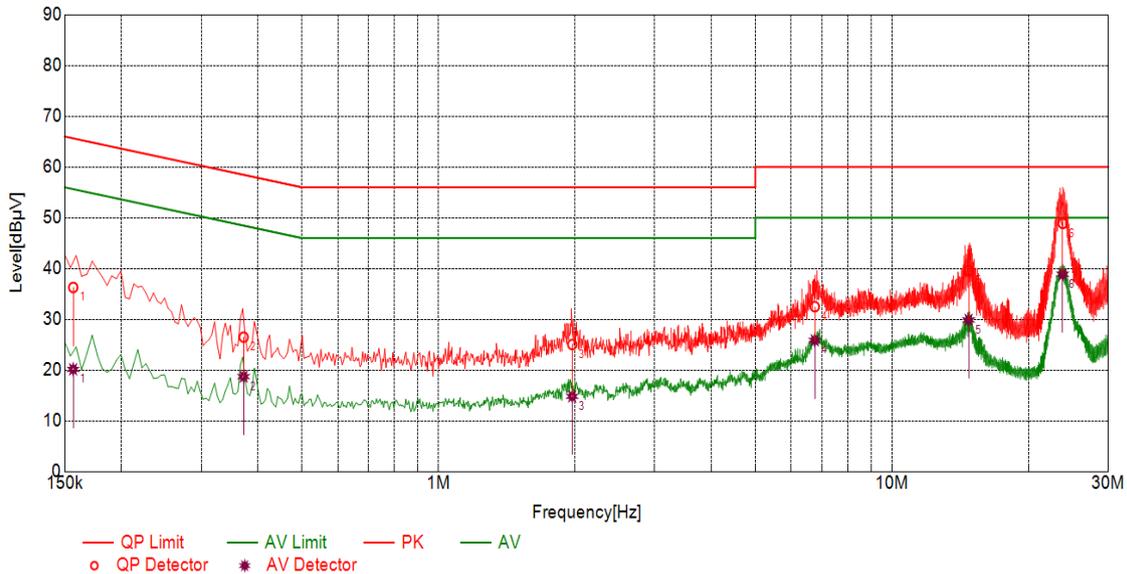


**Measurement Data**

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:**



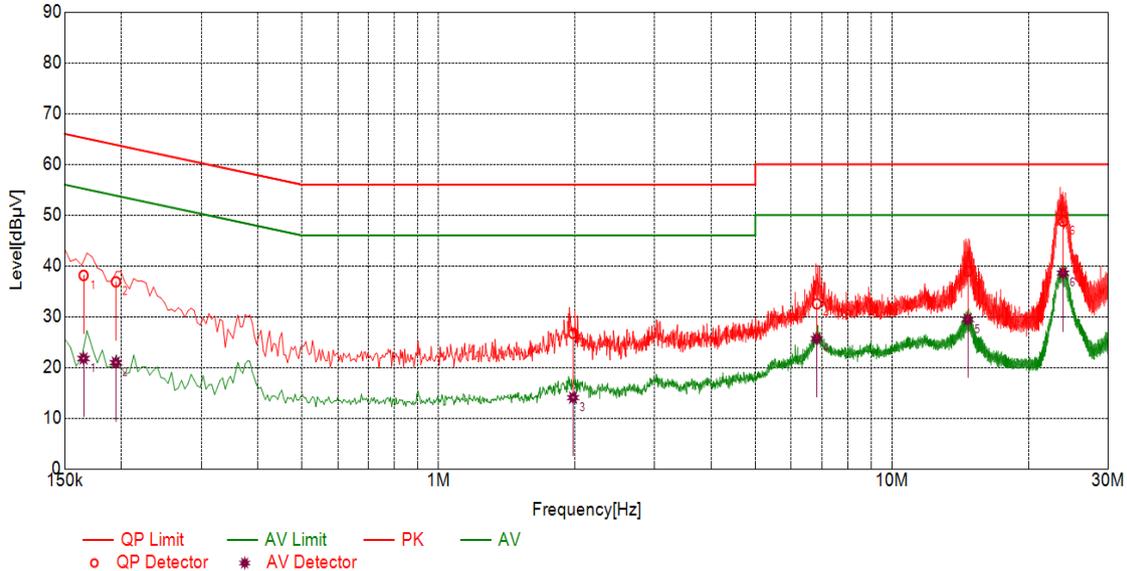
**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1566	10.10	36.28	65.64	29.36	20.14	55.64	35.50	L
2	0.3722	10.10	26.48	58.45	31.97	18.71	48.45	29.74	L
3	1.9730	10.10	25.02	56.00	30.98	14.82	46.00	31.18	L
4	6.7592	10.10	32.49	60.00	27.51	25.85	50.00	24.15	L
5	14.7609	10.11	39.56	60.00	20.44	29.87	50.00	20.13	L
6	23.7932	10.11	48.91	60.00	11.09	38.87	50.00	11.13	L



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Neutral Line:



**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1651	10.10	38.12	65.20	27.08	21.75	55.20	33.45	N
2	0.1945	10.10	36.86	63.84	26.98	20.95	53.84	32.89	N
3	1.9816	10.10	26.71	56.00	29.29	14.04	46.00	31.96	N
4	6.8284	10.10	32.53	60.00	27.47	25.66	50.00	24.34	N
5	14.7012	10.11	38.94	60.00	21.06	29.46	50.00	20.54	N
6	23.8357	10.11	48.81	60.00	11.19	38.59	50.00	11.41	N

Remarks:

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



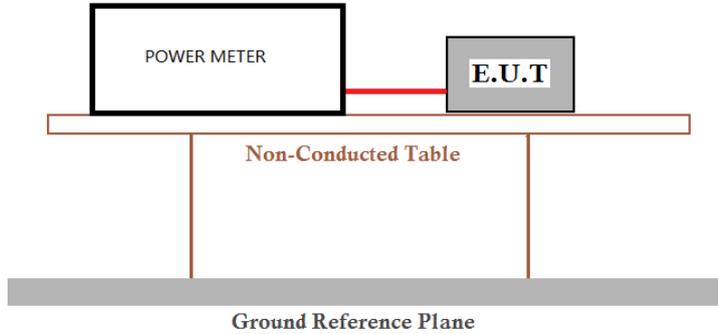
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

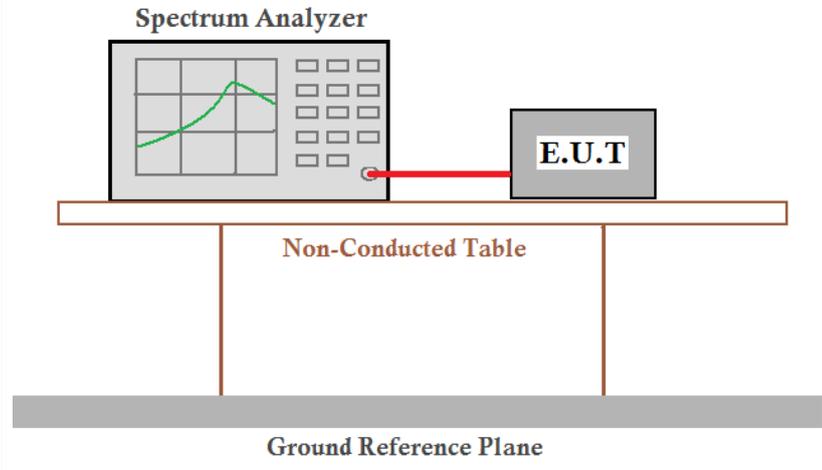
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**



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

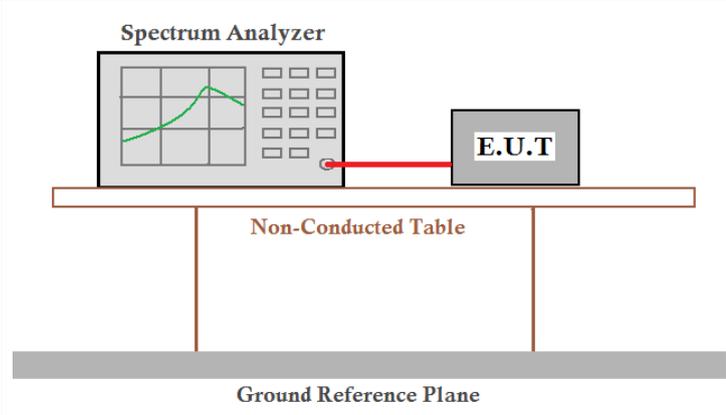
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.6 Power Spectral Density

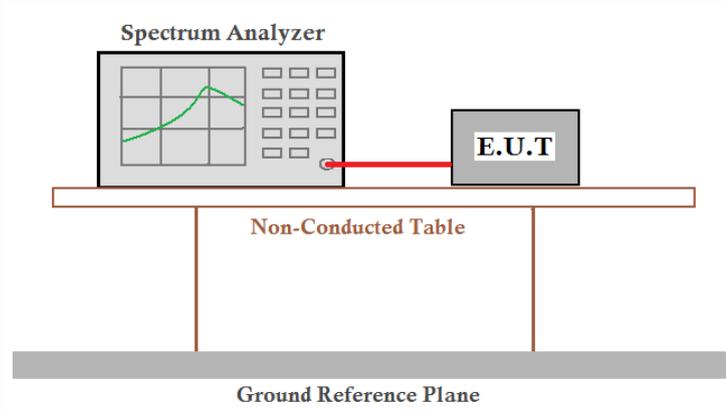
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
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

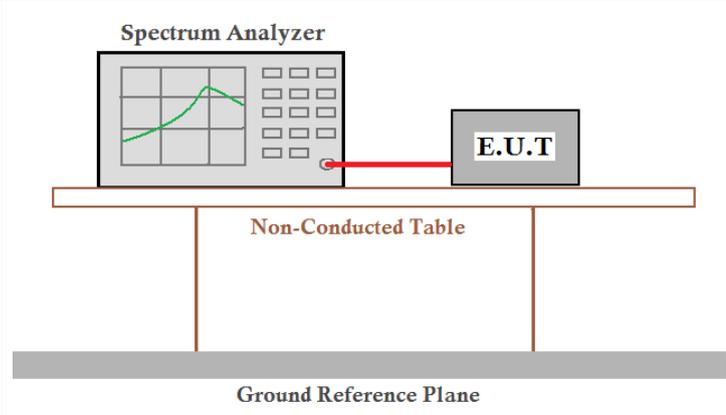
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
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 ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
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	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>Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>For average measurement: use duty cycle correction factor method per 15.35(c).</li> </ol> </li> </ol>



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	<p>Duty cycle = On time/100 milliseconds  On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math>  Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.  Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. 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 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>i. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>j. 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>k. Repeat above procedures until all frequencies measured was complete.</p>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.  Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>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;  6.5Mbps of rate is the worst case of 802.11N(HT20);  13.5Mbps of rate is the worst case of 802.11N(HT40);  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>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>

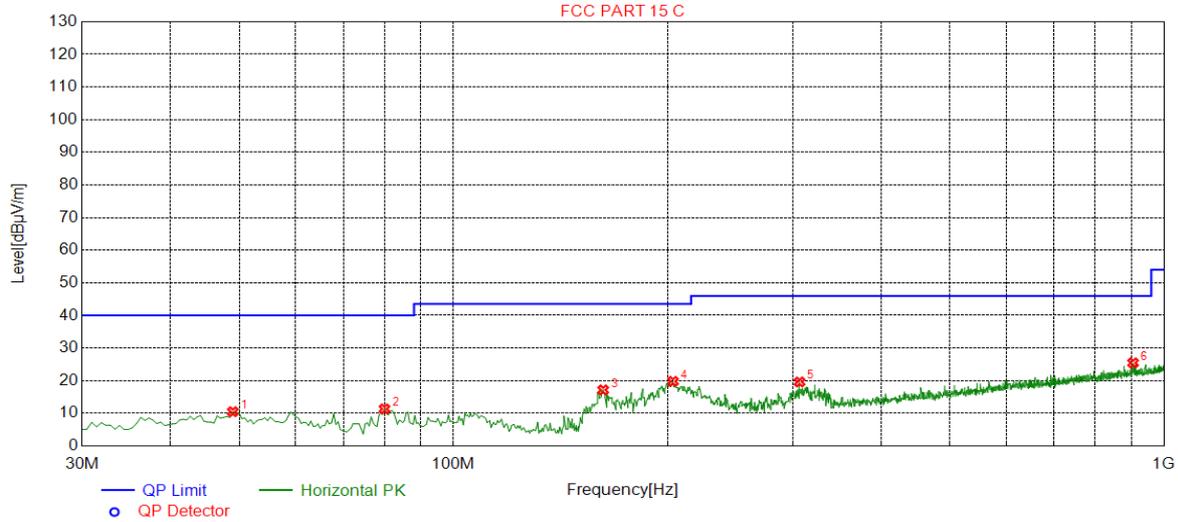


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### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting

##### Test Graph



##### Suspected List

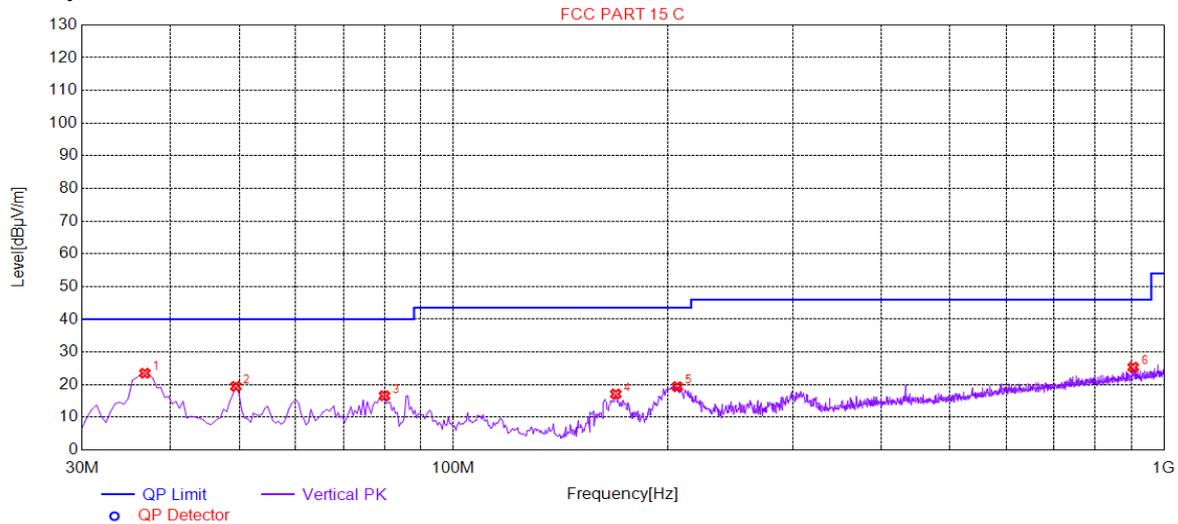
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.9245	10.51	40.00	29.49	203	188	Horizontal
2	79.9800	11.37	40.00	28.63	152	94	Horizontal
3	162.4712	17.19	43.50	26.31	131	229	Horizontal
4	203.7169	19.79	43.50	23.71	213	226	Horizontal
5	307.0735	19.63	46.00	26.37	213	344	Horizontal
6	904.8924	25.48	46.00	20.52	112	156	Horizontal

##### Final Data List



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### Test Graph



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	23.49	40.00	16.51	294	165	Vertical
2	49.4097	19.48	40.00	20.52	191	152	Vertical
3	79.9800	16.61	40.00	23.39	159	215	Vertical
4	169.2646	17.15	43.50	26.35	153	16	Vertical
5	206.6283	19.39	43.50	24.11	275	320	Vertical
6	905.3777	25.35	46.00	20.65	244	123	Vertical

### Final Data List

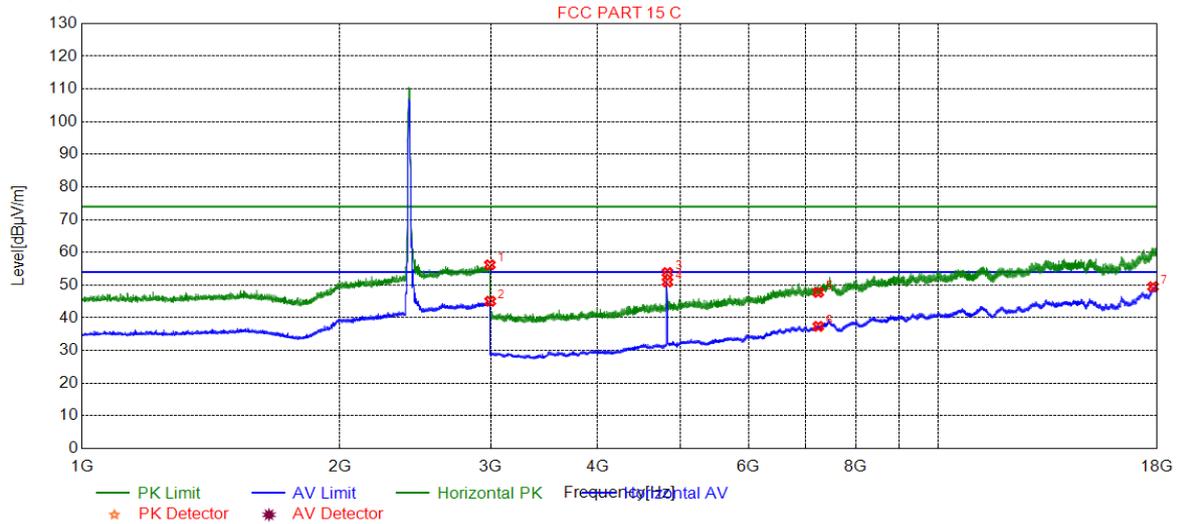


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### 4.9.1 Transmitter emission above 1GHz

#### 4.9.1.1 802.11B\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2993.498	56.20	74.00	17.80	117	155	Horizontal
2	2996.499	45.07	54.00	8.93	128	34	Horizontal
3	4824.000	53.84	74.00	20.16	157	225	Horizontal
4	4824.841	50.97	54.00	3.03	101	225	Horizontal
5	7236.000	47.78	74.00	26.22	120	69	Horizontal
6	7236.000	37.38	54.00	16.62	181	121	Horizontal
7	17796.73	49.52	54.00	4.48	142	17	Horizontal

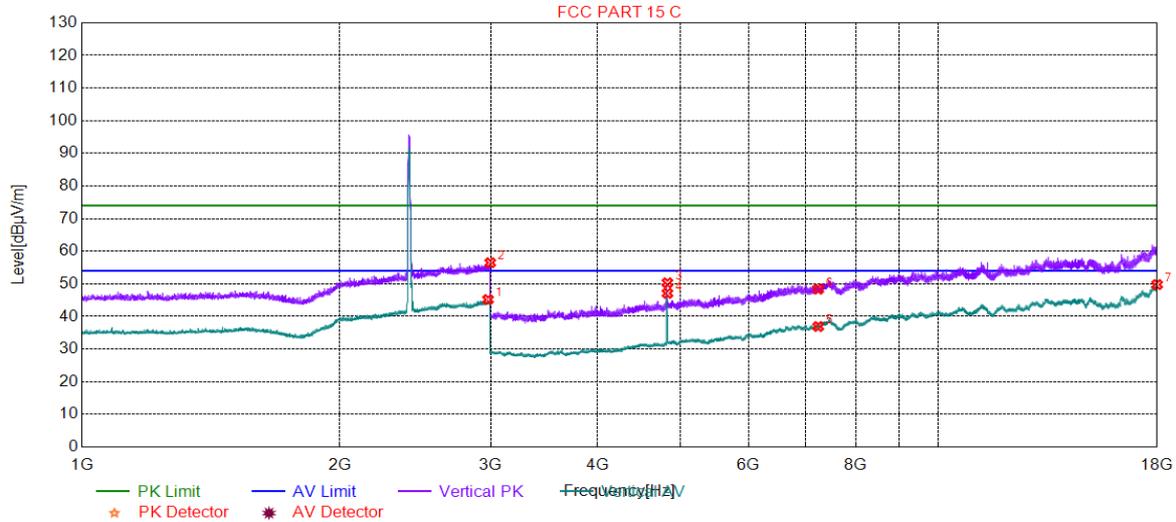
#### Final Data List



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4.9.1.2 802.11B\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.994	45.20	54.00	8.80	284	346	Vertical
2	2996.499	56.49	74.00	17.51	187	315	Vertical
3	4824.091	50.34	74.00	23.66	172	156	Vertical
4	4824.841	47.12	54.00	6.88	231	173	Vertical
5	7236.000	36.94	54.00	17.06	233	136	Vertical
6	7236.000	48.39	74.00	25.61	231	51	Vertical
7	17990.99	49.79	54.00	4.21	155	259	Vertical

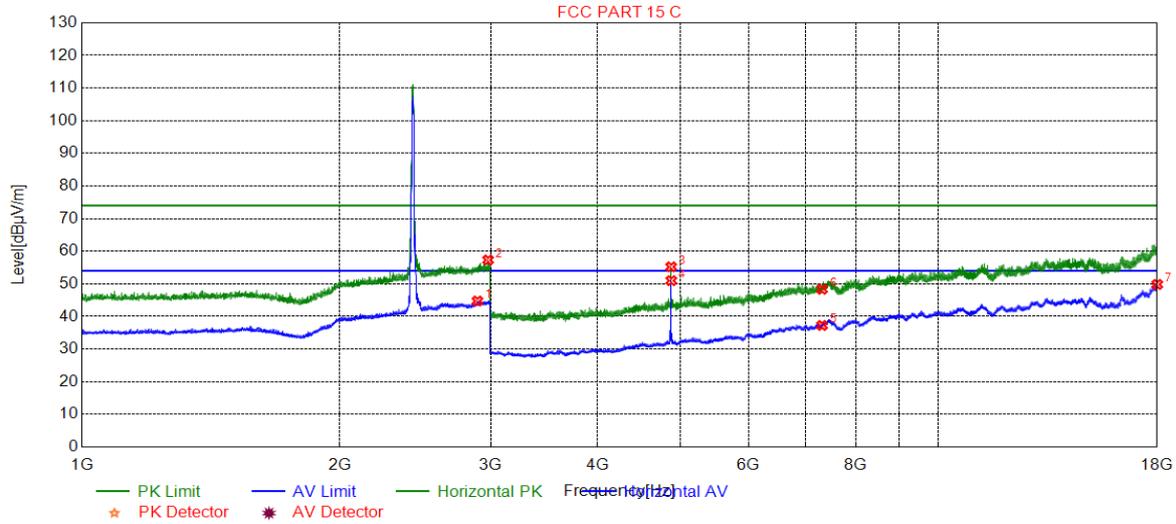
Final Data List



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4.9.1.3 802.11B\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2895.473	44.77	54.00	9.23	234	214	Horizontal
2	2979.494	57.35	74.00	16.65	127	256	Horizontal
3	4873.593	55.23	74.00	18.77	140	240	Horizontal
4	4875.093	50.99	54.00	3.01	203	240	Horizontal
5	7311.000	37.27	54.00	16.73	106	188	Horizontal
6	7311.000	48.36	74.00	25.64	155	345	Horizontal
7	17997.74	49.84	54.00	4.16	120	119	Horizontal

Final Data List

Final Data List table content is not visible in the provided image.

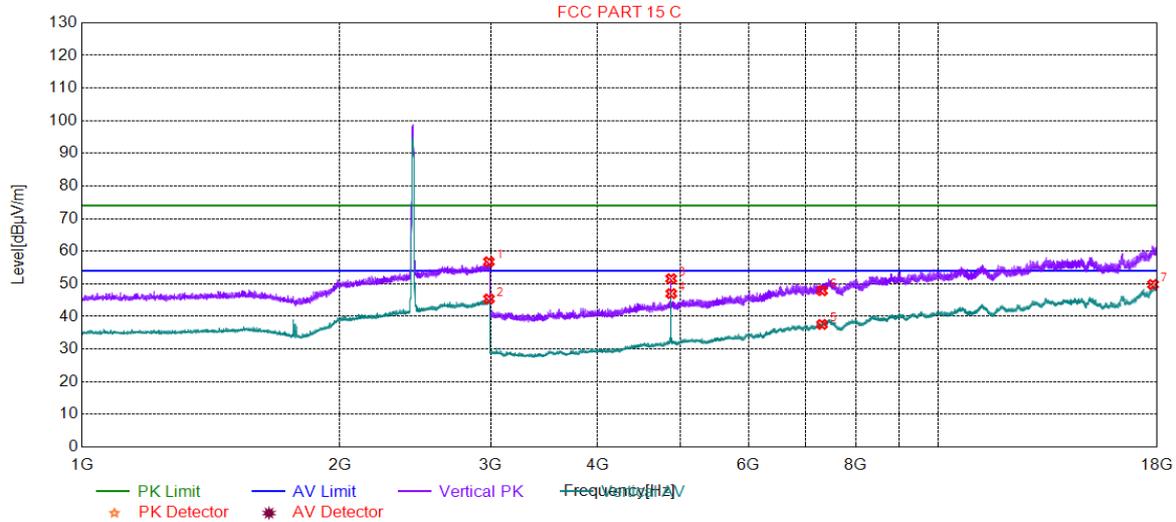


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**4.9.1.4 802.11B\_Channel 6**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2985.996	56.79	74.00	17.21	211	116	Vertical
2	2986.496	45.40	54.00	8.60	191	242	Vertical
3	4873.593	51.60	74.00	22.40	235	170	Vertical
4	4875.093	47.02	54.00	6.98	286	170	Vertical
5	7311.000	37.58	54.00	16.42	190	118	Vertical
6	7311.000	47.90	74.00	26.10	194	257	Vertical
7	17792.98	49.83	54.00	4.17	187	223	Vertical

**Final Data List**

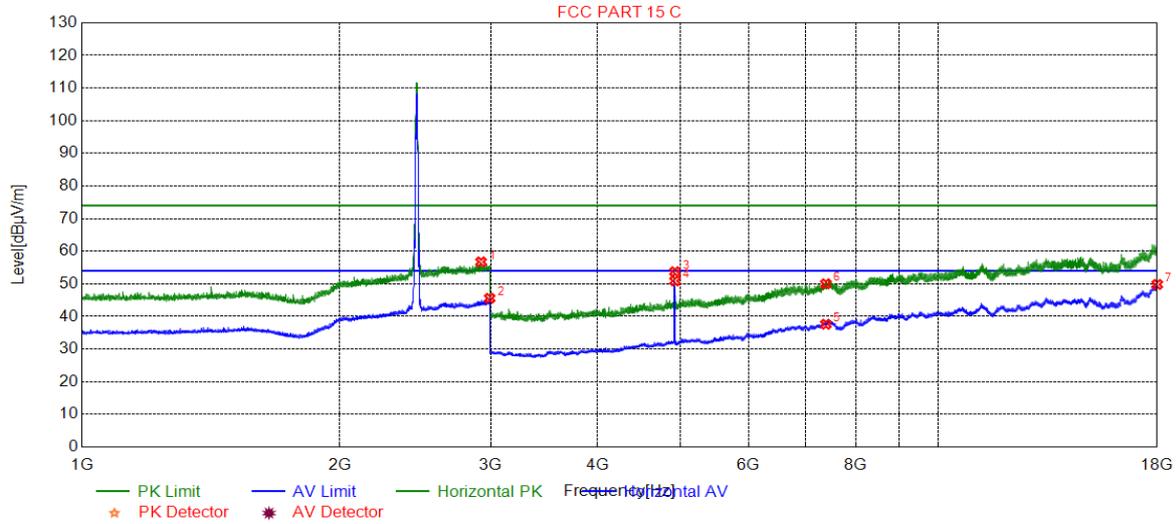
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4.9.1.5 802.11B\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.981	56.75	74.00	17.25	221	120	Horizontal
2	2992.498	45.60	54.00	8.40	169	254	Horizontal
3	4923.846	53.74	74.00	20.26	130	240	Horizontal
4	4924.596	50.91	54.00	3.09	221	222	Horizontal
5	7386.000	37.64	54.00	16.36	239	223	Horizontal
6	7386.000	50.03	74.00	23.97	106	345	Horizontal
7	17999.25	49.83	54.00	4.17	157	345	Horizontal

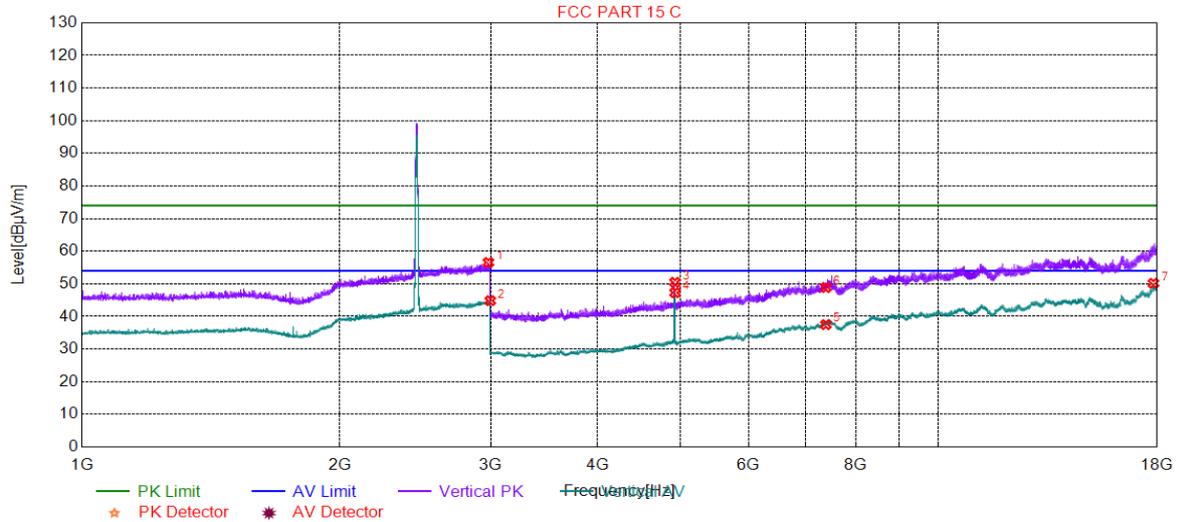
Final Data List



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**4.9.1.6 802.11B\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.995	56.58	74.00	17.42	275	210	Vertical
2	2996.999	44.85	54.00	9.15	294	252	Vertical
3	4923.846	50.49	74.00	23.51	181	174	Vertical
4	4924.596	47.31	54.00	6.69	209	157	Vertical
5	7386.000	37.52	54.00	16.48	151	104	Vertical
6	7386.000	48.87	74.00	25.13	280	173	Vertical
7	17817.74	50.18	54.00	3.82	191	241	Vertical

**Final Data List**

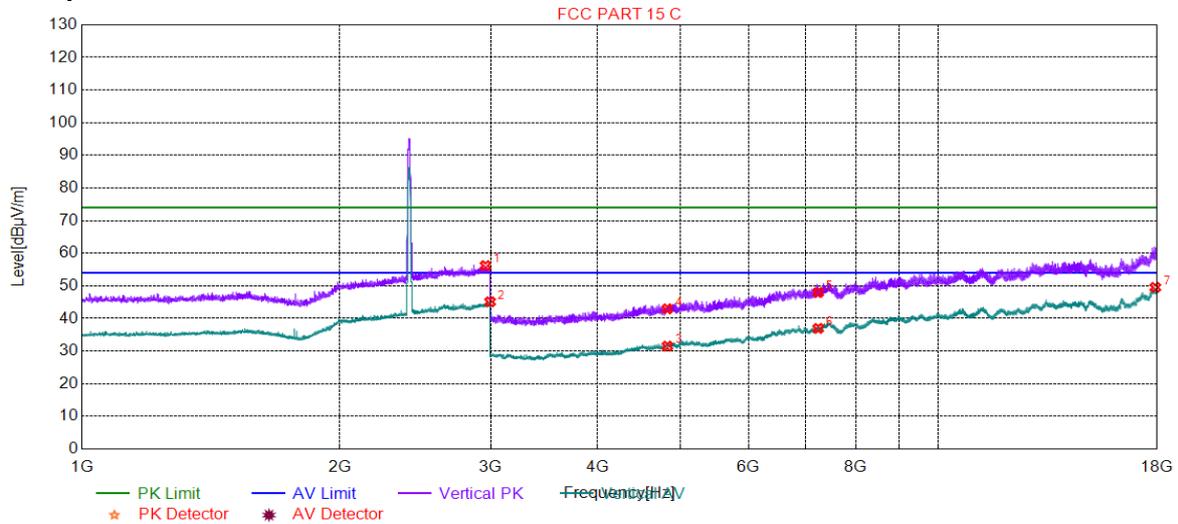


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4.9.1.8 802.11G\_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.489	56.22	74.00	17.78	157	157	Vertical
2	2995.498	45.12	54.00	8.88	254	47	Vertical
3	4824.000	31.54	54.00	22.46	264	15	Vertical
4	4824.000	42.96	74.00	31.04	216	120	Vertical
5	7236.000	47.98	74.00	26.02	179	172	Vertical
6	7236.000	36.98	54.00	17.02	219	0	Vertical
7	17903.99	49.54	54.00	4.46	223	67	Vertical

Final Data List

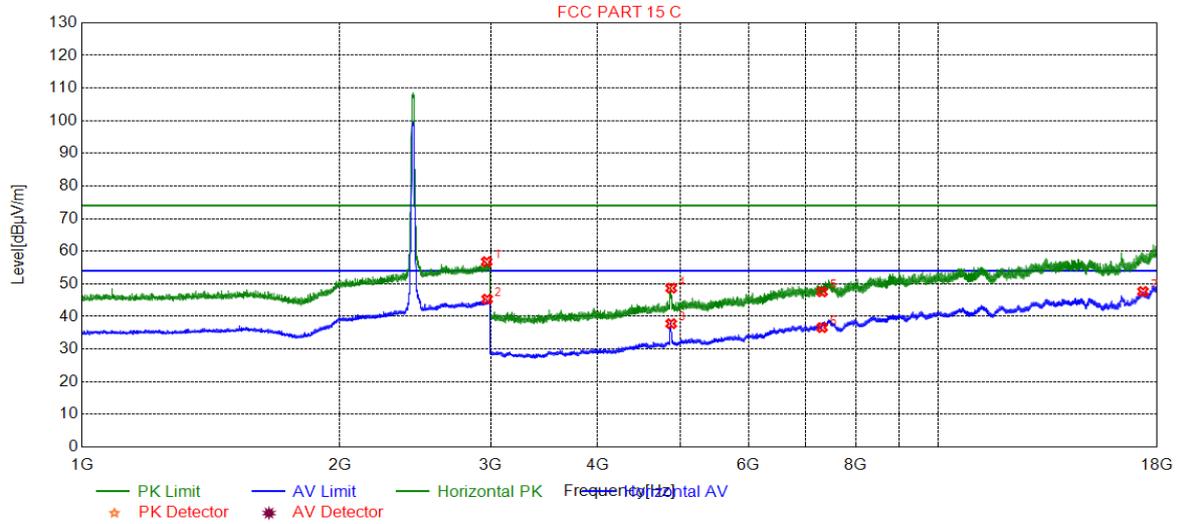
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### 4.9.1.9 802.11G\_Channel 6

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2968.492	56.80	74.00	17.20	109	177	Horizontal
2	2971.993	45.32	54.00	8.68	194	298	Horizontal
3	4874.000	37.81	54.00	16.19	174	240	Horizontal
4	4874.000	48.70	74.00	25.30	240	327	Horizontal
5	7311.000	47.57	74.00	26.43	243	240	Horizontal
6	7311.000	36.61	54.00	17.39	236	359	Horizontal
7	17321.96	47.67	54.00	6.33	104	100	Horizontal

#### Final Data List

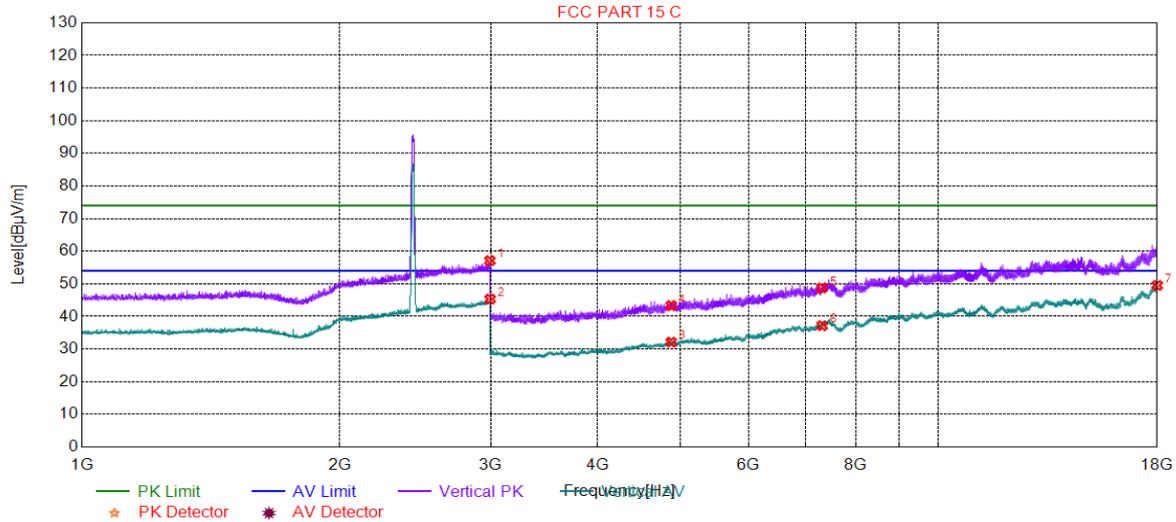
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4.9.1.10 802.11G\_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2993.998	57.12	74.00	16.88	240	320	Vertical
2	2995.999	45.35	54.00	8.65	175	320	Vertical
3	4874.000	32.16	54.00	21.84	185	329	Vertical
4	4874.000	43.36	74.00	30.64	236	311	Vertical
5	7311.000	48.74	74.00	25.26	171	0	Vertical
6	7311.000	37.19	54.00	16.81	162	33	Vertical
7	17996.24	49.52	54.00	4.48	193	259	Vertical

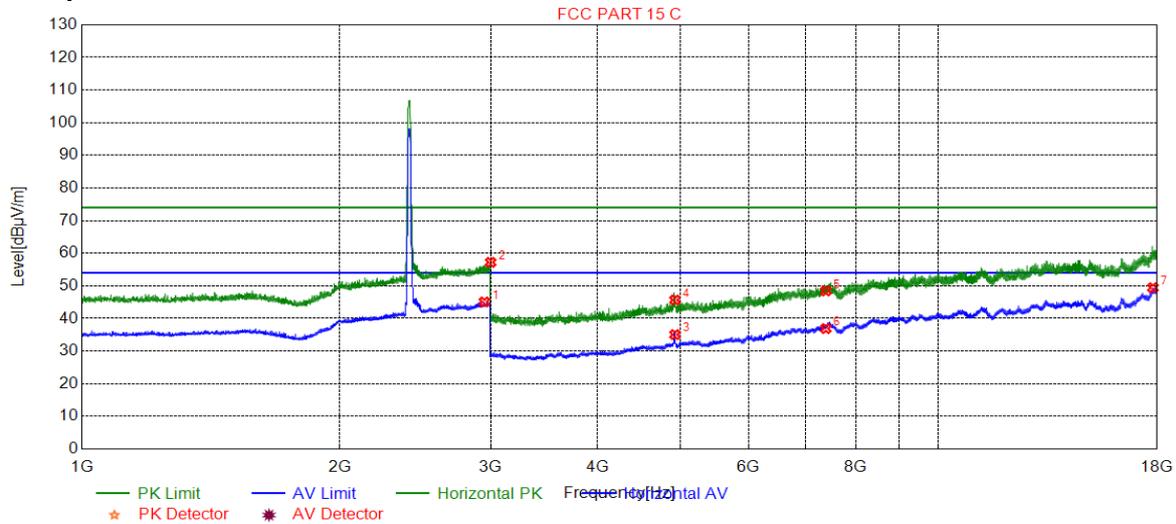
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### 4.9.1.11 802.11G\_Channel 11

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.987	45.10	54.00	8.90	171	66	Horizontal
2	3000.000	57.23	74.00	16.77	194	71	Horizontal
3	4924.000	35.07	54.00	18.93	153	209	Horizontal
4	4924.000	45.68	74.00	28.32	235	244	Horizontal
5	7386.000	48.45	74.00	25.55	202	330	Horizontal
6	7386.000	36.91	54.00	17.09	240	173	Horizontal
7	17788.48	49.44	54.00	4.56	177	66	Horizontal

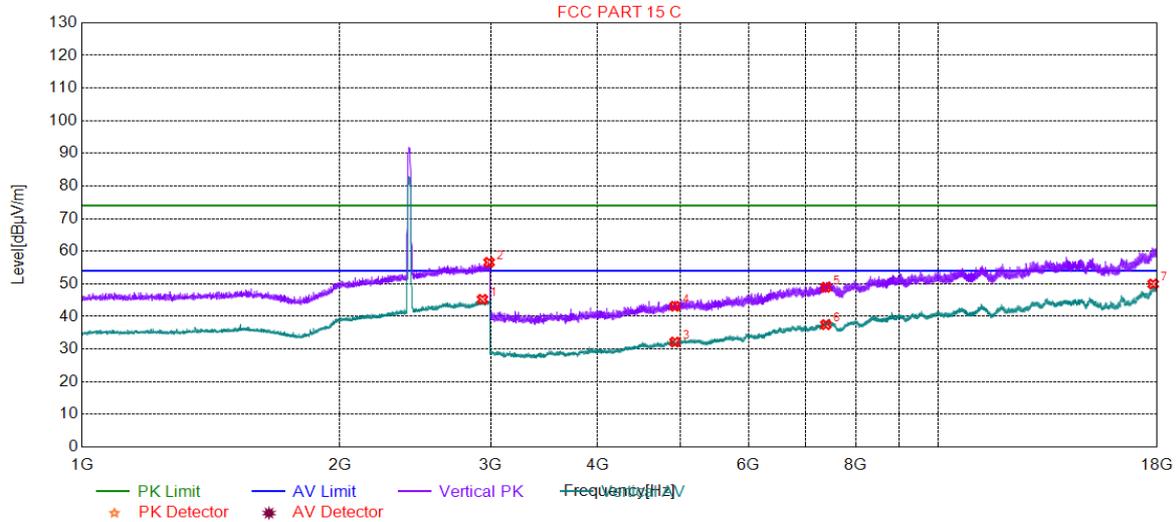
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**4.9.1.12 802.11G\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.983	45.27	54.00	8.73	259	36	Vertical
2	2987.496	56.61	74.00	17.39	163	125	Vertical
3	4924.000	32.18	54.00	21.82	200	156	Vertical
4	4924.000	43.15	74.00	30.85	196	243	Vertical
5	7386.000	48.97	74.00	25.03	202	260	Vertical
6	7386.000	37.52	54.00	16.48	254	2	Vertical
7	17800.49	49.97	54.00	4.03	232	122	Vertical

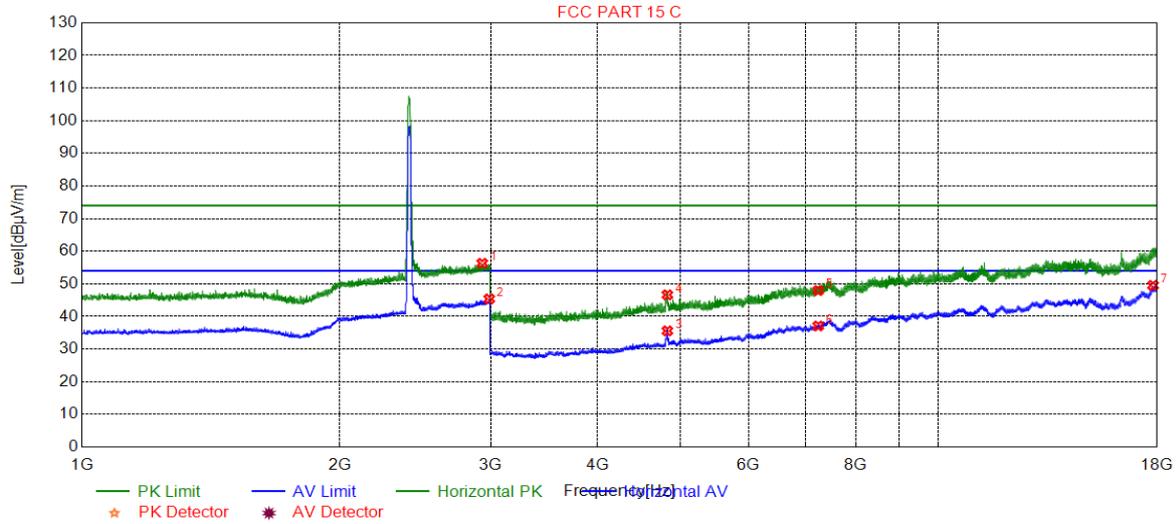
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4.9.1.13 802.11N20\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.983	56.32	74.00	17.68	175	108	Horizontal
2	2988.997	45.41	54.00	8.59	164	265	Horizontal
3	4824.000	35.61	54.00	18.39	114	240	Horizontal
4	4824.000	46.65	74.00	27.35	131	240	Horizontal
5	7236.000	47.98	74.00	26.02	186	49	Horizontal
6	7236.000	37.11	54.00	16.89	249	223	Horizontal
7	17793.73	49.56	54.00	4.44	184	259	Horizontal

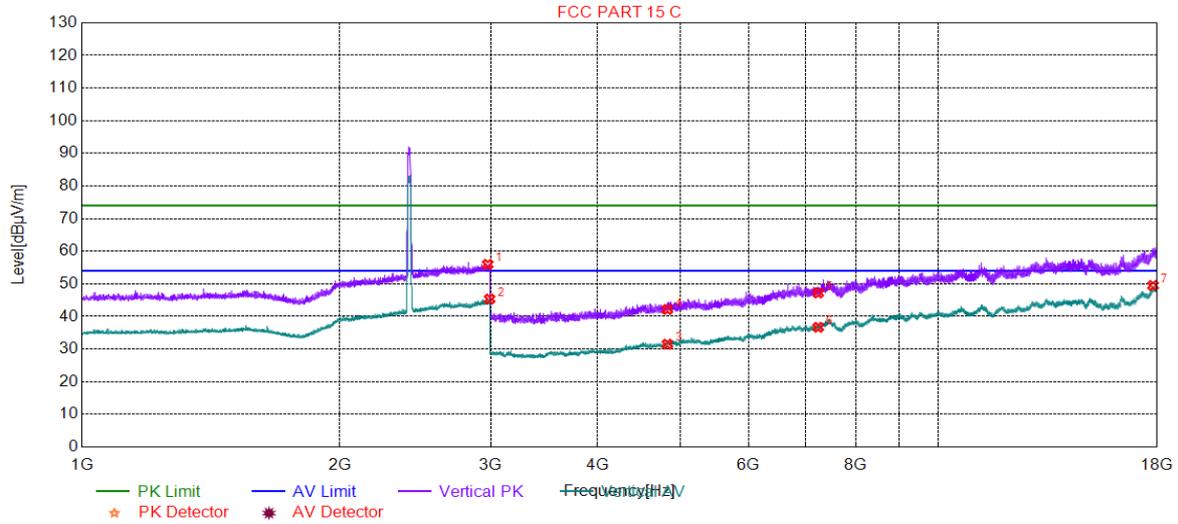
Final Data List



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### 4.9.1.14 802.11N20\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.494	56.00	74.00	18.00	196	268	Vertical
2	2991.998	45.37	54.00	8.63	271	195	Vertical
3	4824.000	31.53	54.00	22.47	217	172	Vertical
4	4824.000	42.15	74.00	31.85	168	64	Vertical
5	7236.000	47.21	74.00	26.79	274	136	Vertical
6	7236.000	36.71	54.00	17.29	180	329	Vertical
7	17792.98	49.51	54.00	4.49	191	277	Vertical

#### Final Data List

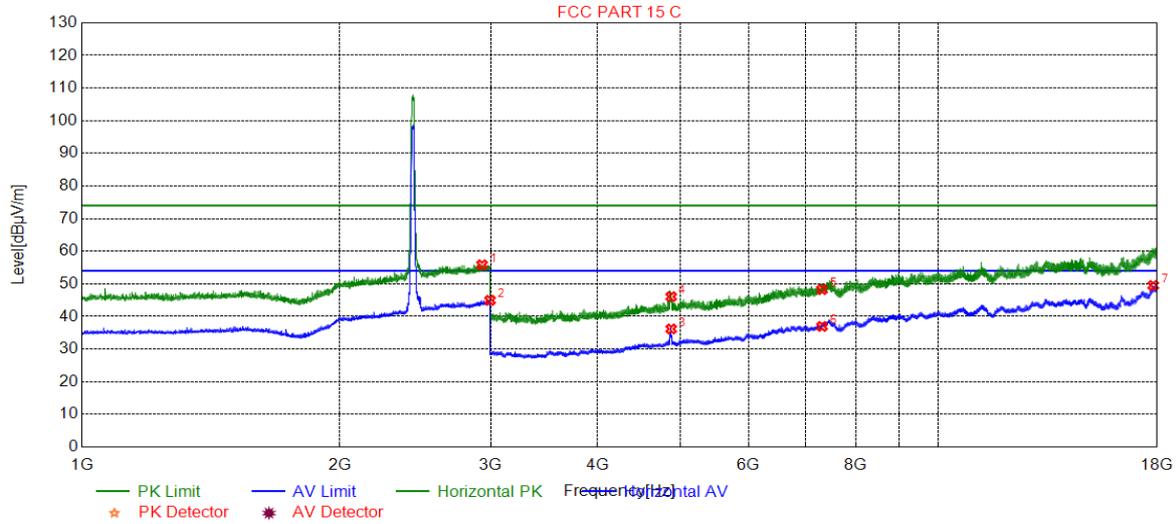
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### 4.9.1.15 802.11N20\_Channel 6

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.482	55.85	74.00	18.15	170	128	Horizontal
2	2994.998	44.97	54.00	9.03	189	222	Horizontal
3	4874.000	36.19	54.00	17.81	146	226	Horizontal
4	4874.000	46.08	74.00	27.92	140	296	Horizontal
5	7311.000	48.27	74.00	25.73	222	226	Horizontal
6	7311.000	36.96	54.00	17.04	135	65	Horizontal
7	17806.49	49.51	54.00	4.49	141	174	Horizontal

#### Final Data List

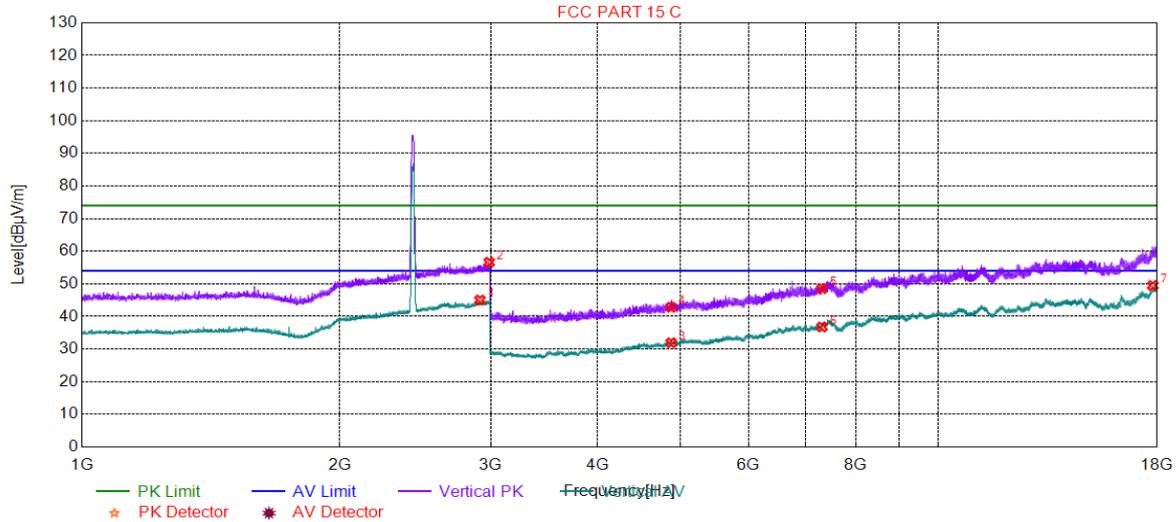


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4.9.1.16 802.11N20\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.978	45.06	54.00	8.94	297	132	Vertical
2	2988.497	56.63	74.00	17.37	294	27	Vertical
3	4874.000	31.96	54.00	22.04	184	135	Vertical
4	4874.000	42.84	74.00	31.16	272	171	Vertical
5	7311.000	48.56	74.00	25.44	248	329	Vertical
6	7311.000	36.80	54.00	17.20	175	48	Vertical
7	17782.48	49.51	54.00	4.49	287	135	Vertical

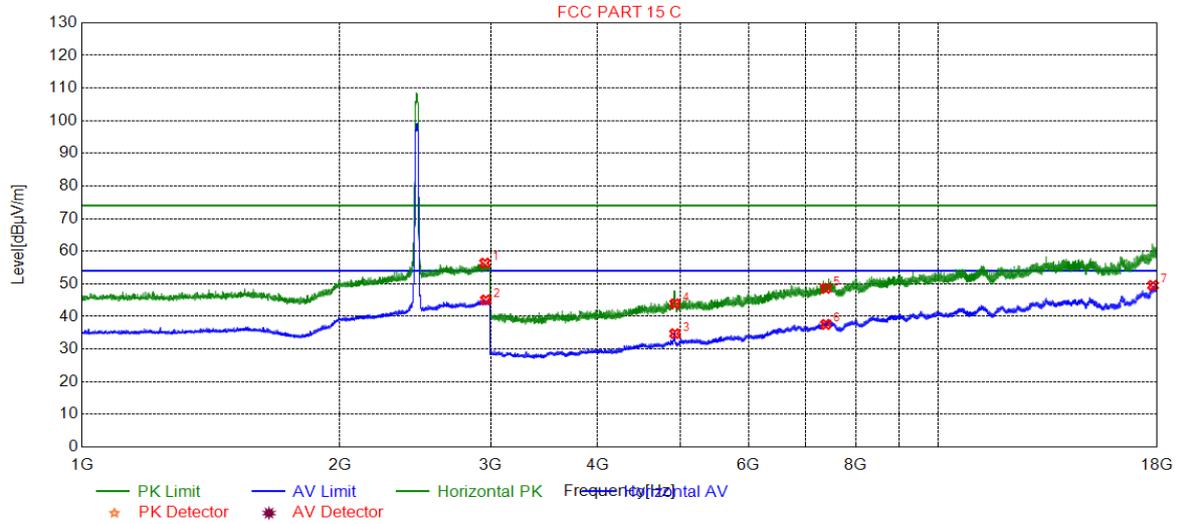
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4.9.1.17 802.11N20\_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.488	56.38	74.00	17.62	180	156	Horizontal
2	2960.990	45.09	54.00	8.91	140	203	Horizontal
3	4924.000	34.75	54.00	19.25	134	239	Horizontal
4	4924.000	43.91	74.00	30.09	182	14	Horizontal
5	7386.000	48.63	74.00	25.37	106	65	Horizontal
6	7386.000	37.58	54.00	16.42	152	257	Horizontal
7	17795.23	49.55	54.00	4.45	192	310	Horizontal

Final Data List

Final Data List

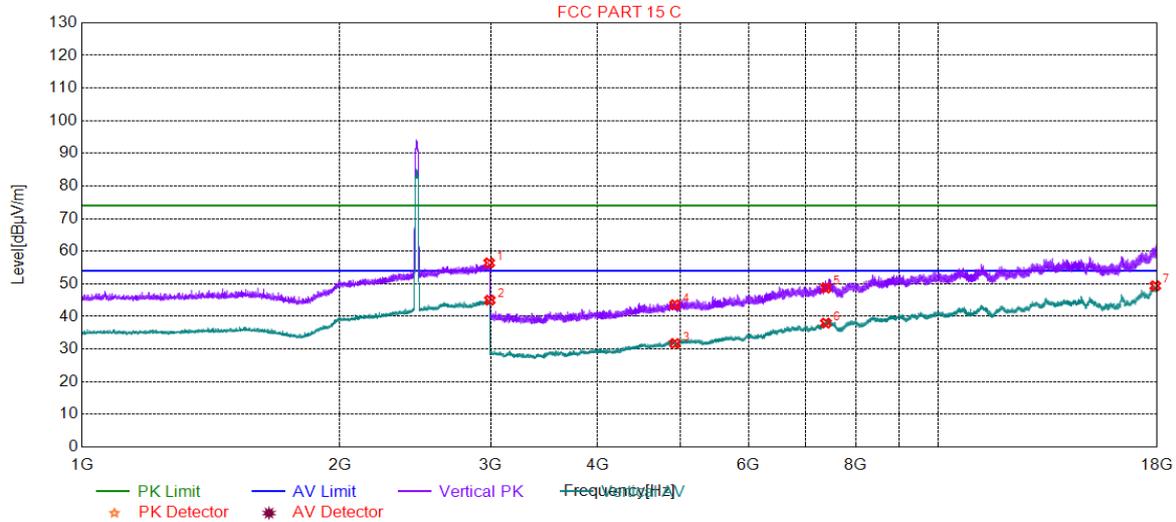


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**4.9.1.18 802.11N20\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.497	56.43	74.00	17.57	153	52	Vertical
2	2992.998	45.02	54.00	8.98	199	215	Vertical
3	4924.000	31.74	54.00	22.26	208	115	Vertical
4	4924.000	43.60	74.00	30.40	231	98	Vertical
5	7386.000	48.76	74.00	25.24	221	346	Vertical
6	7386.000	37.99	54.00	16.01	158	62	Vertical
7	17902.49	49.41	54.00	4.59	206	346	Vertical

**Final Data List**

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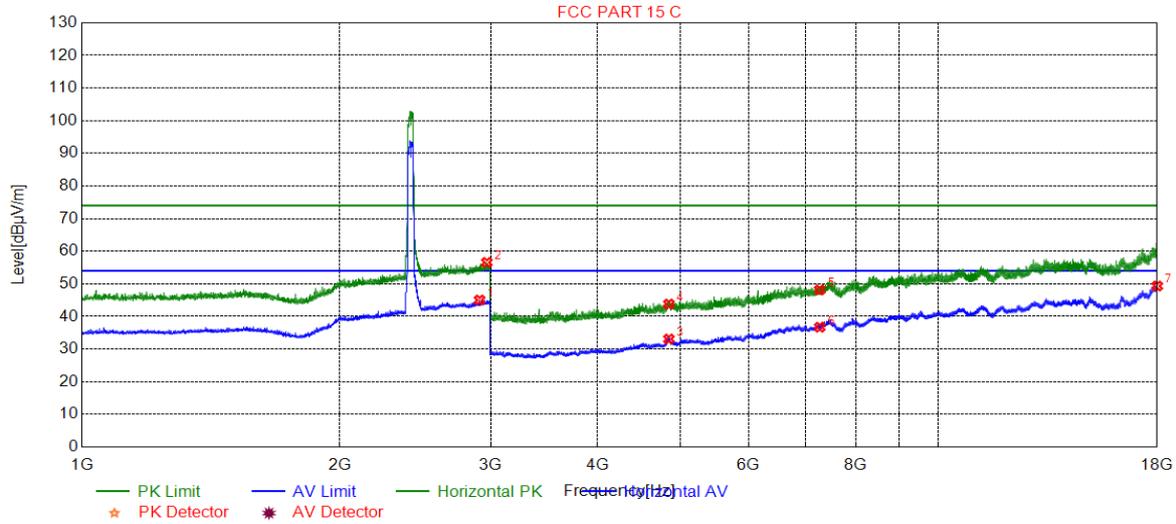


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4.9.1.19 802.11N40\_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2911.978	45.06	54.00	8.94	160	281	Horizontal
2	2969.492	56.59	74.00	17.41	112	40	Horizontal
3	4844.000	33.11	54.00	20.89	206	316	Horizontal
4	4844.000	43.82	74.00	30.18	152	49	Horizontal
5	7266.000	48.17	74.00	25.83	103	172	Horizontal
6	7266.000	36.74	54.00	17.26	188	84	Horizontal
7	17996.99	49.36	54.00	4.64	224	84	Horizontal

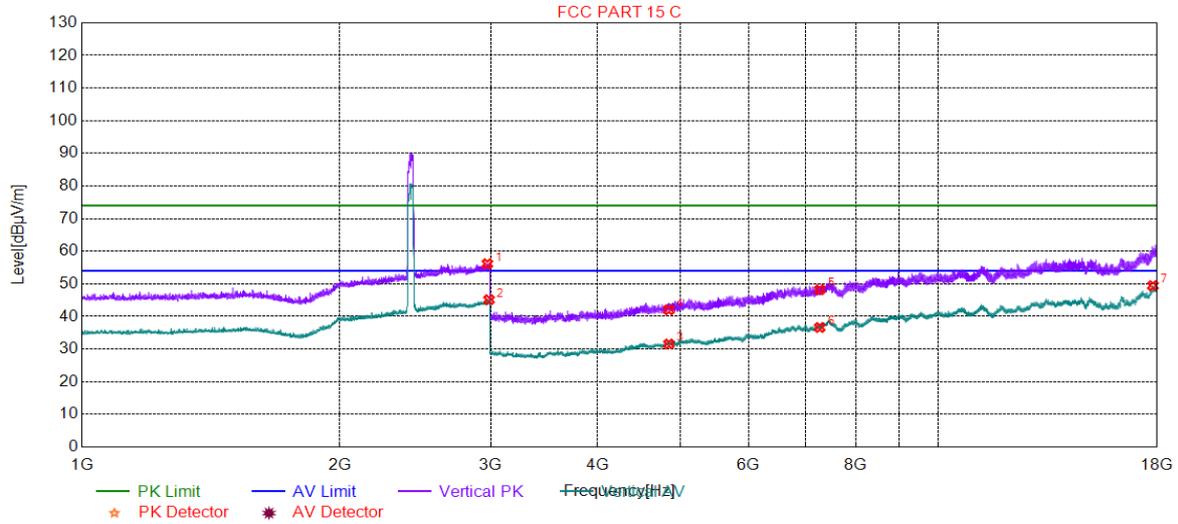
Final Data List



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4.9.1.20 802.11N40\_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.493	56.18	74.00	17.82	259	268	Vertical
2	2986.996	45.15	54.00	8.85	274	89	Vertical
3	4844.000	31.57	54.00	22.43	174	152	Vertical
4	4844.000	42.03	74.00	31.97	205	312	Vertical
5	7266.000	48.19	74.00	25.81	175	312	Vertical
6	7266.000	36.64	54.00	17.36	153	276	Vertical
7	17787.73	49.46	54.00	4.54	229	329	Vertical

Final Data List

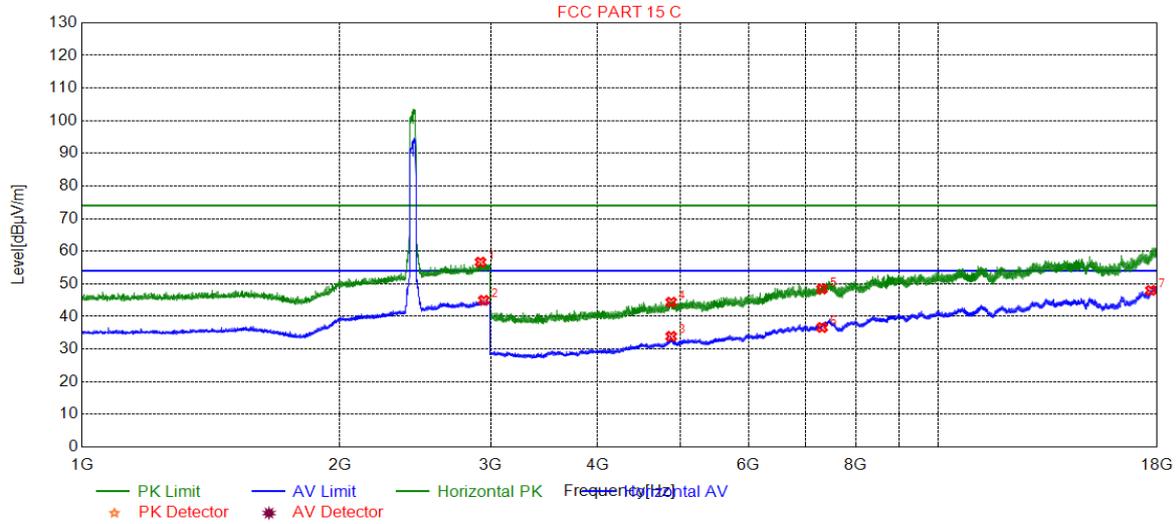
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### 4.9.1.21 802.11N40\_Channel 6

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2919.479	56.67	74.00	17.33	124	14	Horizontal
2	2944.986	44.97	54.00	9.03	175	322	Horizontal
3	4874.000	33.92	54.00	20.08	222	239	Horizontal
4	4874.000	44.39	74.00	29.61	171	239	Horizontal
5	7311.000	48.43	74.00	25.57	245	221	Horizontal
6	7311.000	36.64	54.00	17.36	150	239	Horizontal
7	17694.73	48.02	54.00	5.98	216	291	Horizontal

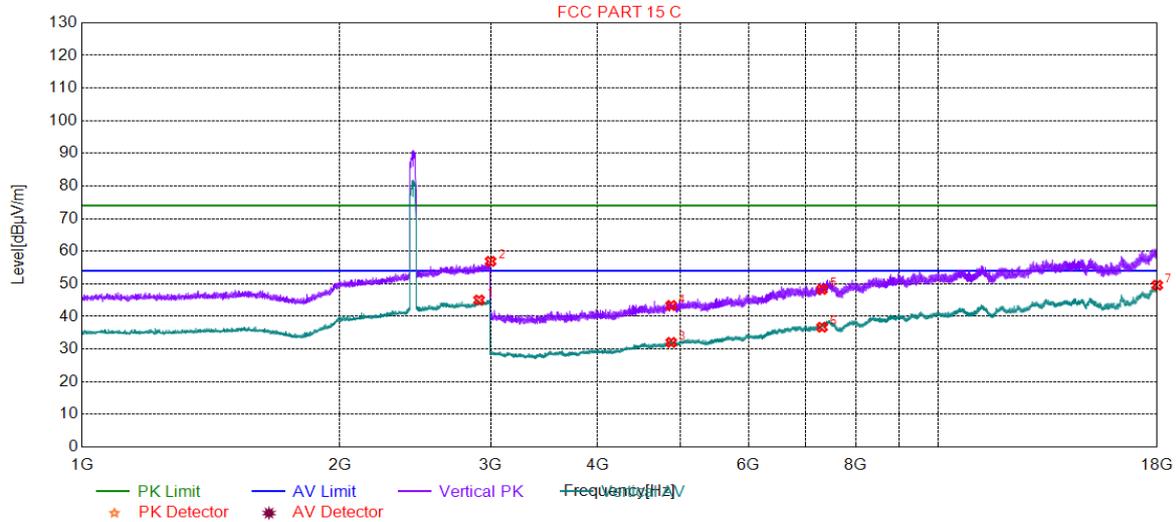
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4.9.1.22 802.11N40\_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2907.977	45.06	54.00	8.94	201	226	Vertical
2	2999.499	56.91	74.00	17.09	217	226	Vertical
3	4874.000	32.06	54.00	21.94	282	208	Vertical
4	4874.000	43.38	74.00	30.62	220	86	Vertical
5	7311.000	48.32	74.00	25.68	290	225	Vertical
6	7311.000	36.73	54.00	17.27	275	295	Vertical
7	17999.25	49.60	54.00	4.40	242	17	Vertical

Final Data List

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

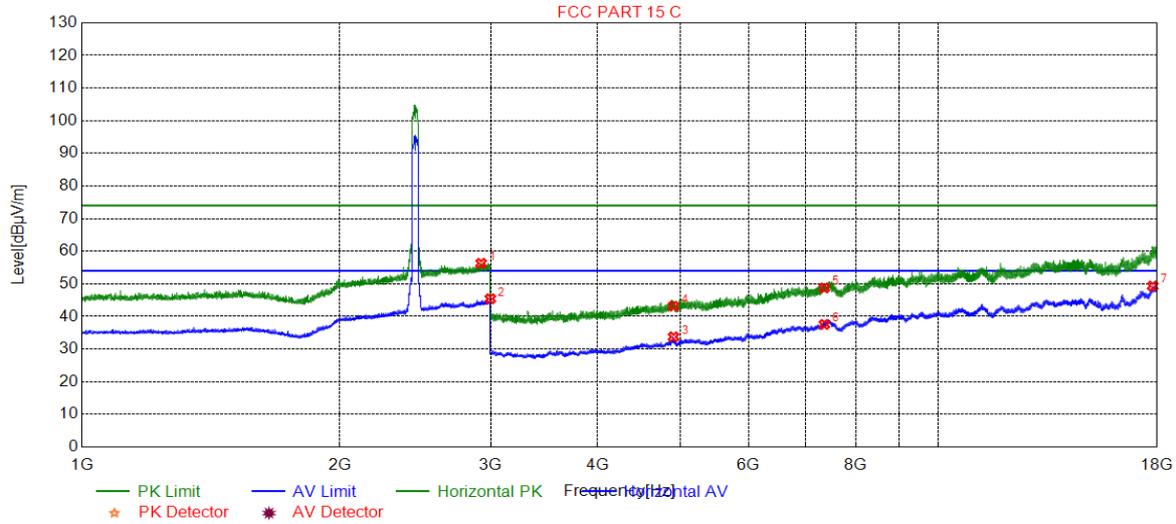


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4.9.1.23 802.11N40\_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.981	56.31	74.00	17.69	168	333	Horizontal
2	2997.499	45.44	54.00	8.56	141	229	Horizontal
3	4904.000	33.78	54.00	20.22	139	238	Horizontal
4	4904.000	43.17	74.00	30.83	155	325	Horizontal
5	7356.000	48.76	74.00	25.24	148	238	Horizontal
6	7356.000	37.58	54.00	16.42	224	255	Horizontal
7	17780.98	49.35	54.00	4.65	110	66	Horizontal

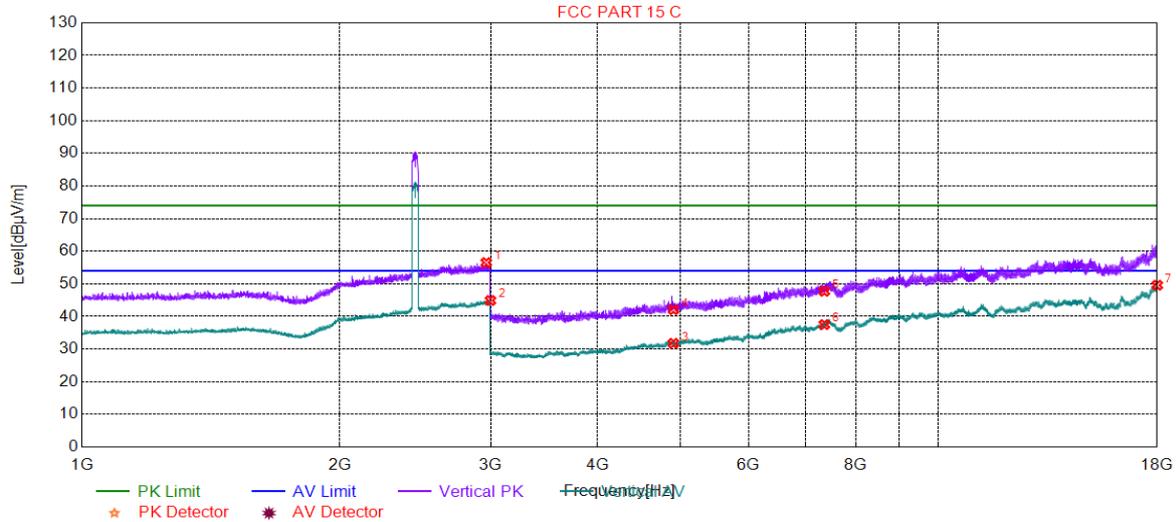
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**4.9.1.24 802.11N40\_Channel 9**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.991	56.53	74.00	17.47	278	252	Vertical
2	2998.499	44.91	54.00	9.09	163	1	Vertical
3	4904.000	31.79	54.00	22.21	179	243	Vertical
4	4904.000	42.09	74.00	31.91	235	312	Vertical
5	7356.000	47.74	74.00	26.26	195	346	Vertical
6	7356.000	37.53	54.00	16.47	275	36	Vertical
7	17999.25	49.60	54.00	4.40	155	226	Vertical

**Final Data List**

**Remark:**

- 1) 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
- 2) 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.
- 3) 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.
- 4) 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:			

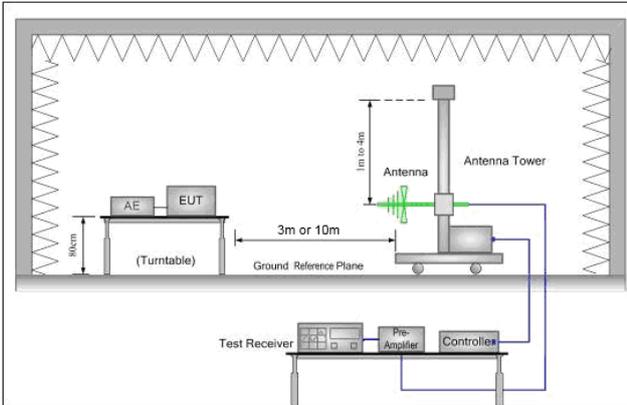


Figure 1. 30MHz to 1GHz

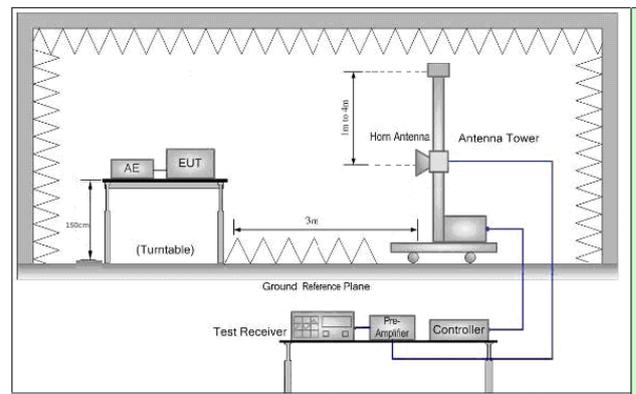


Figure 2. Above 1 GHz

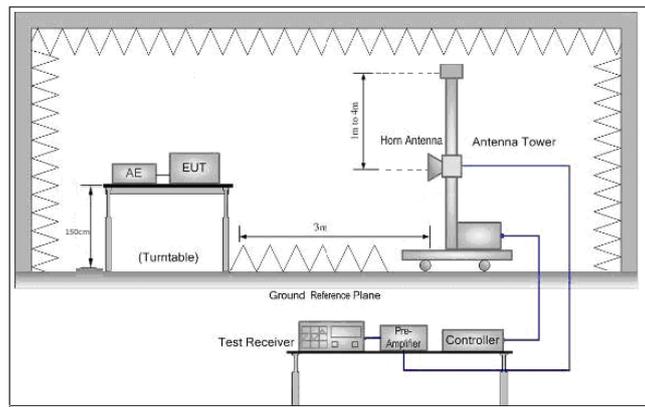


Figure 3. Above 1 GHz



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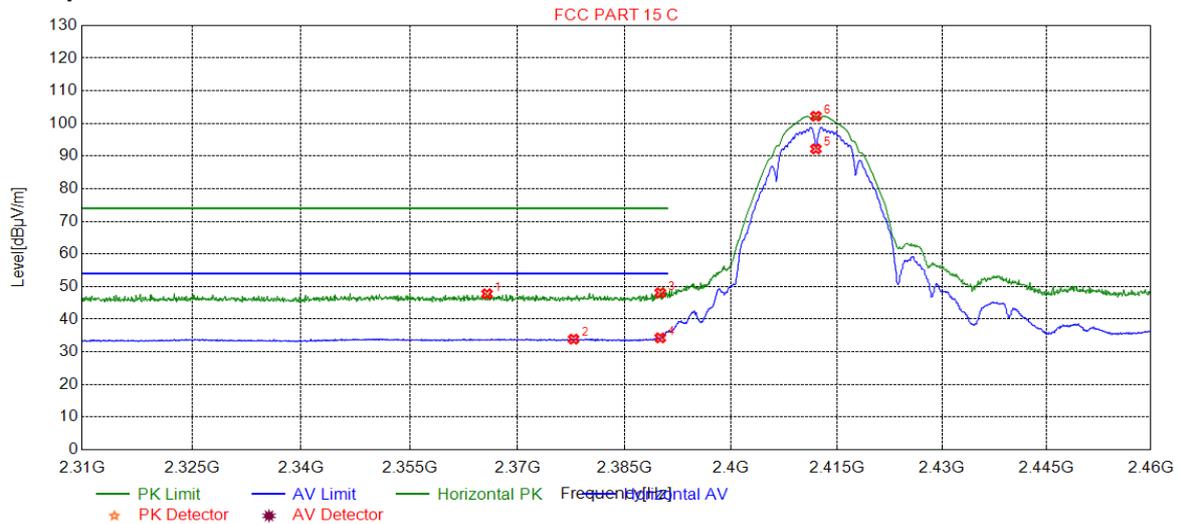
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For 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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.          Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>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;          6.5Mbps of rate is the worst case of 802.11N(HT20);          13.5Mbps of rate is the worst case of 802.11N(HT40);          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>



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4.10.1 Test Plots  
4.10.1.1 802.11B\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.752	47.81	74.00	26.19	160	123	Horizontal
2	2377.833	33.91	54.00	20.09	194	44	Horizontal
3	2390.000	48.12	74.00	25.88	163	218	Horizontal
4	2390.000	34.30	54.00	19.70	211	218	Horizontal
5	2412.000	92.20	0.00	-92.20	242	44	Horizontal
6	2412.000	102.22	0.00	-102.22	132	48	Horizontal

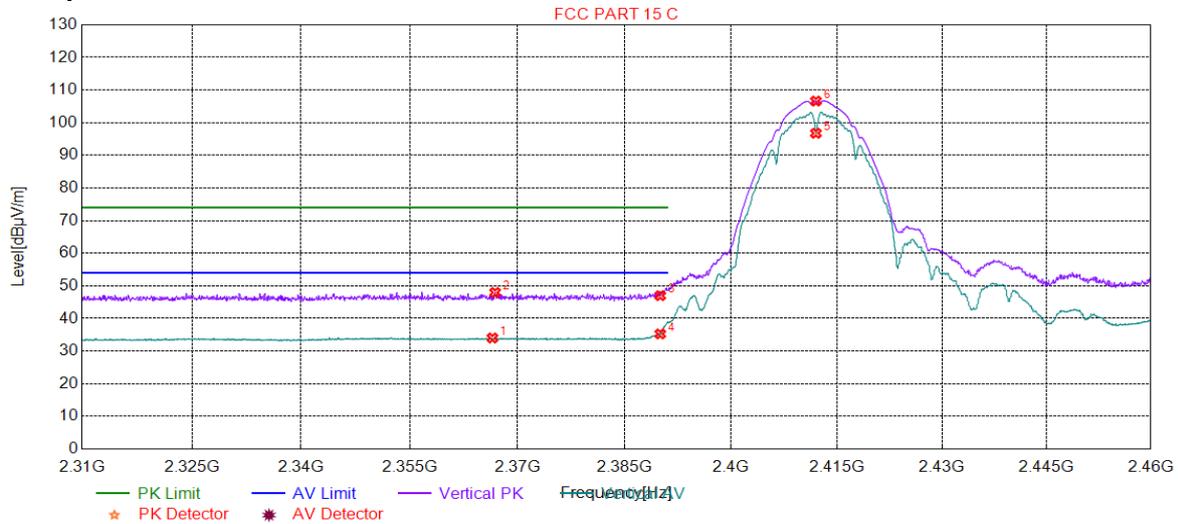
Final Data List



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4.10.1.2 802.11B\_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.503	34.03	54.00	19.97	277	290	Vertical
2	2366.878	47.99	74.00	26.01	189	335	Vertical
3	2390.000	47.01	74.00	26.99	175	308	Vertical
4	2390.000	35.29	54.00	18.71	164	301	Vertical
5	2412.000	96.76	0.00	-96.76	162	346	Vertical
6	2412.000	106.63	0.00	-106.63	184	343	Vertical

Final Data List

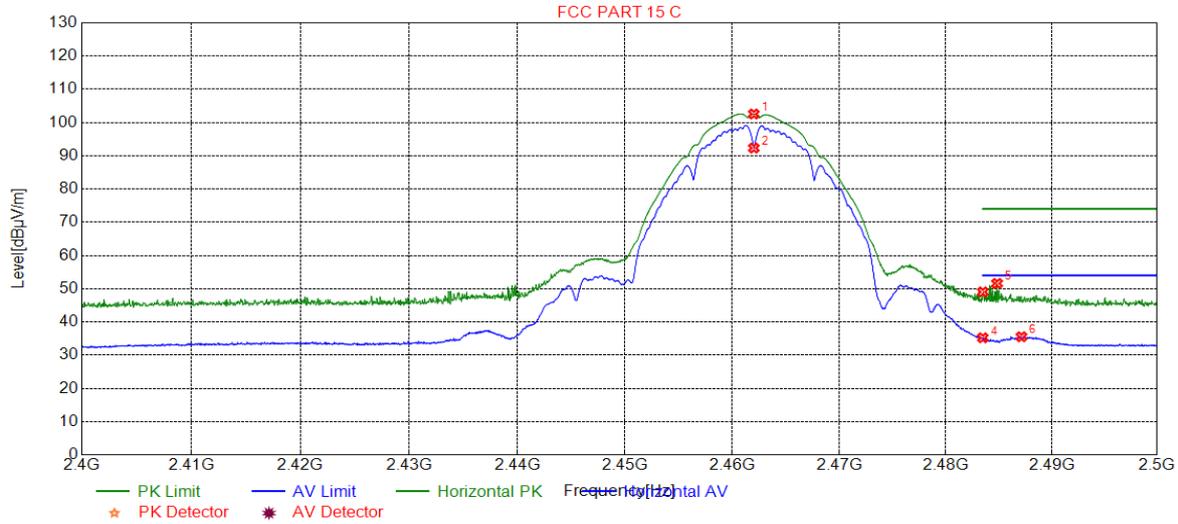


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4.10.1.3 802.11B\_Channel 1 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	102.58	0.00	-102.58	126	47	Horizontal
2	2462.000	92.33	0.00	-92.33	198	44	Horizontal
3	2483.500	49.06	74.00	24.94	103	358	Horizontal
4	2483.500	35.25	54.00	18.75	191	211	Horizontal
5	2484.842	51.61	74.00	22.39	140	47	Horizontal
6	2487.143	35.56	54.00	18.44	224	51	Horizontal

Final Data List

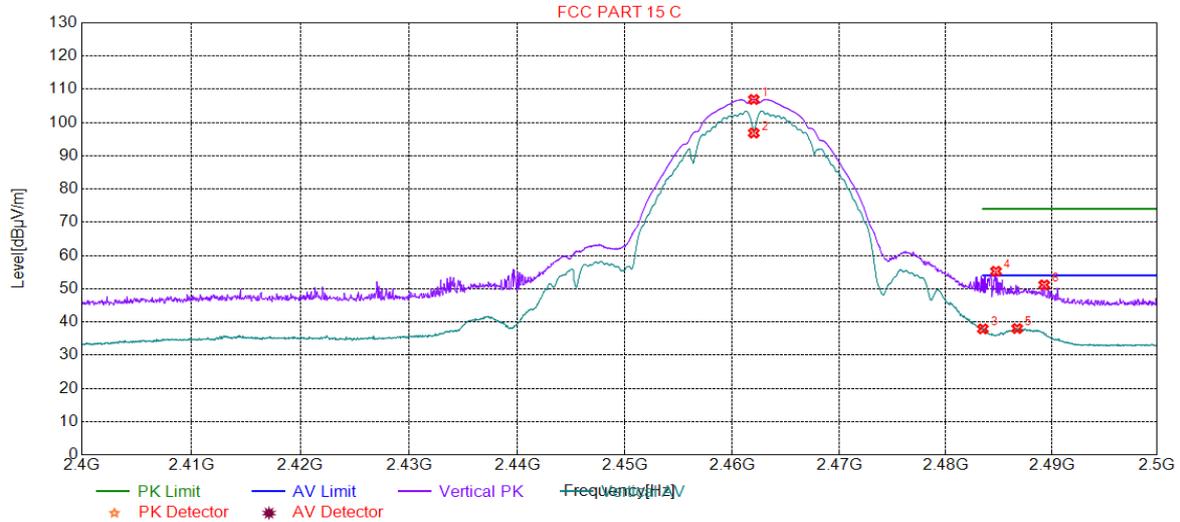
(This area is intentionally left blank for the final data list.)



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**4.10.1.4 802.11B\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.94	0.00	-106.94	277	335	Vertical
2	2462.000	96.84	0.00	-96.84	246	343	Vertical
3	2483.500	37.92	54.00	16.08	235	331	Vertical
4	2484.742	55.26	74.00	18.74	288	339	Vertical
5	2486.743	38.04	54.00	15.96	270	346	Vertical
6	2489.294	51.17	74.00	22.83	188	346	Vertical

**Final Data List**

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.94	0.00	-106.94	277	335	Vertical
2	2462.000	96.84	0.00	-96.84	246	343	Vertical
3	2483.500	37.92	54.00	16.08	235	331	Vertical
4	2484.742	55.26	74.00	18.74	288	339	Vertical
5	2486.743	38.04	54.00	15.96	270	346	Vertical
6	2489.294	51.17	74.00	22.83	188	346	Vertical

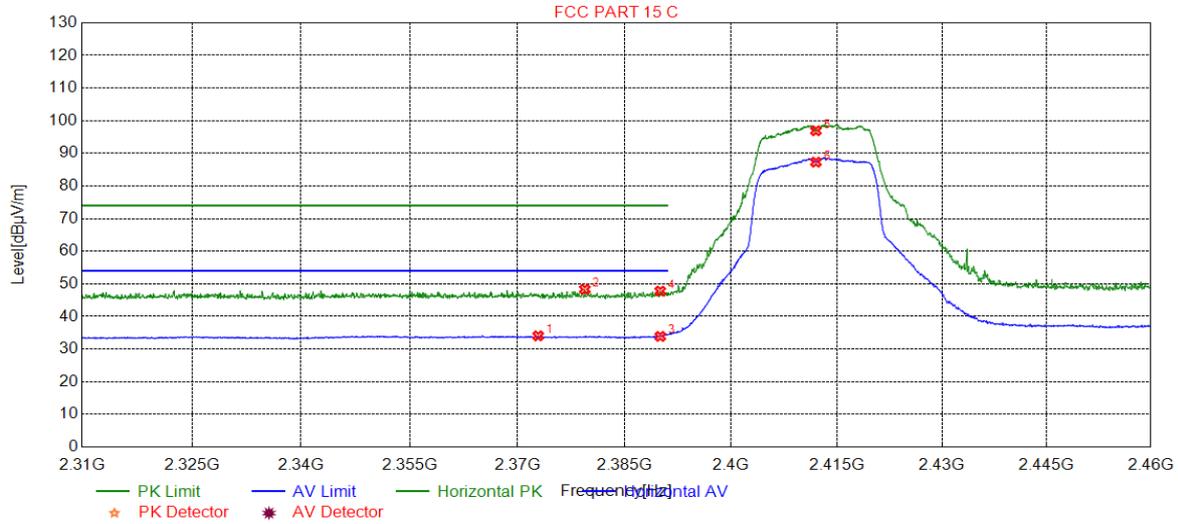


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### 4.10.1.5 802.11G\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.881	34.08	54.00	19.92	102	52	Horizontal
2	2379.409	48.35	74.00	25.65	139	260	Horizontal
3	2390.000	33.91	54.00	20.09	100	25	Horizontal
4	2390.000	47.80	74.00	26.20	194	131	Horizontal
5	2412.000	96.92	0.00	-96.92	201	199	Horizontal
6	2412.000	87.30	0.00	-87.30	158	199	Horizontal

#### Final Data List

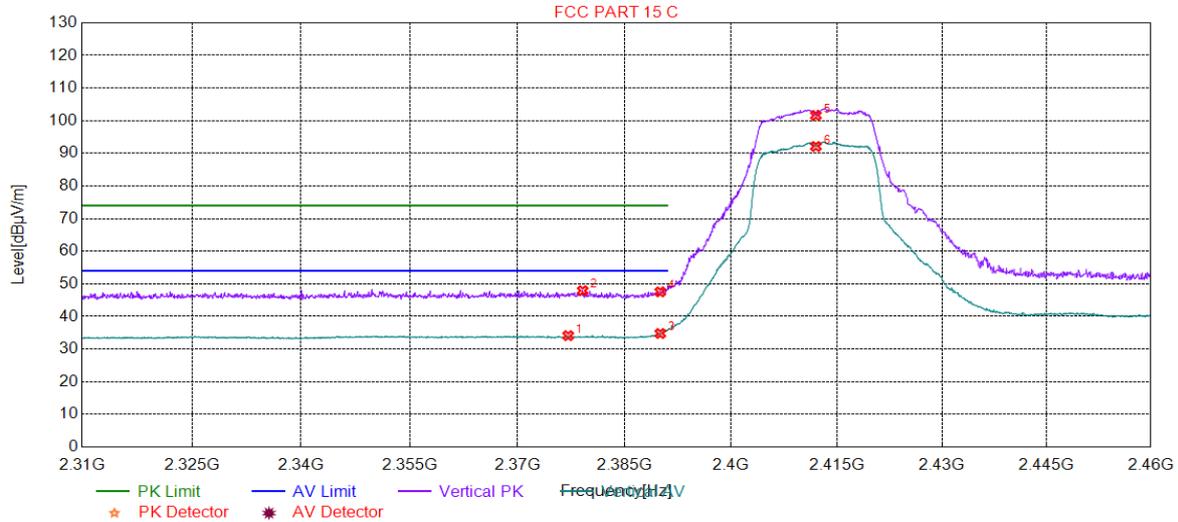


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### 4.10.1.6 802.11G\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.083	34.14	54.00	19.86	266	25	Vertical
2	2379.109	47.94	74.00	26.06	296	120	Vertical
3	2390.000	34.80	54.00	19.20	184	1	Vertical
4	2390.000	47.56	74.00	26.44	235	1	Vertical
5	2412.000	101.62	0.00	-101.62	269	346	Vertical
6	2412.000	92.11	0.00	-92.11	158	346	Vertical

#### Final Data List

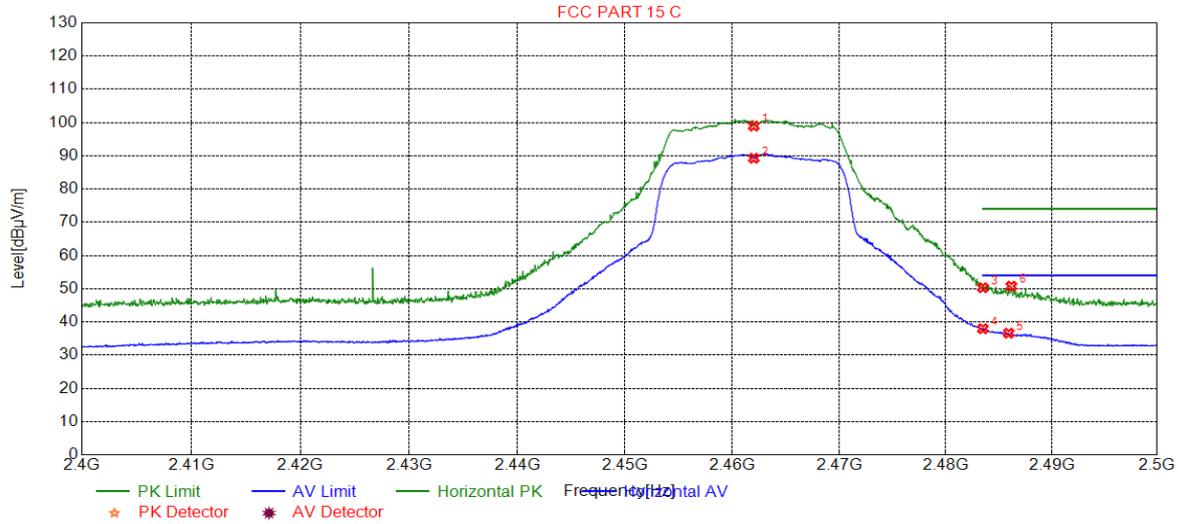
Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.083	34.14	54.00	19.86	266	25	Vertical
2	2379.109	47.94	74.00	26.06	296	120	Vertical
3	2390.000	34.80	54.00	19.20	184	1	Vertical
4	2390.000	47.56	74.00	26.44	235	1	Vertical
5	2412.000	101.62	0.00	-101.62	269	346	Vertical
6	2412.000	92.11	0.00	-92.11	158	346	Vertical



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4.10.1.7 802.11G\_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	98.96	0.00	-98.96	144	33	Horizontal
2	2462.000	89.26	0.00	-89.26	124	29	Horizontal
3	2483.500	50.32	74.00	23.68	168	25	Horizontal
4	2483.500	37.97	54.00	16.03	158	21	Horizontal
5	2485.943	36.63	54.00	17.37	242	21	Horizontal
6	2486.193	50.77	74.00	23.23	199	25	Horizontal

Final Data List

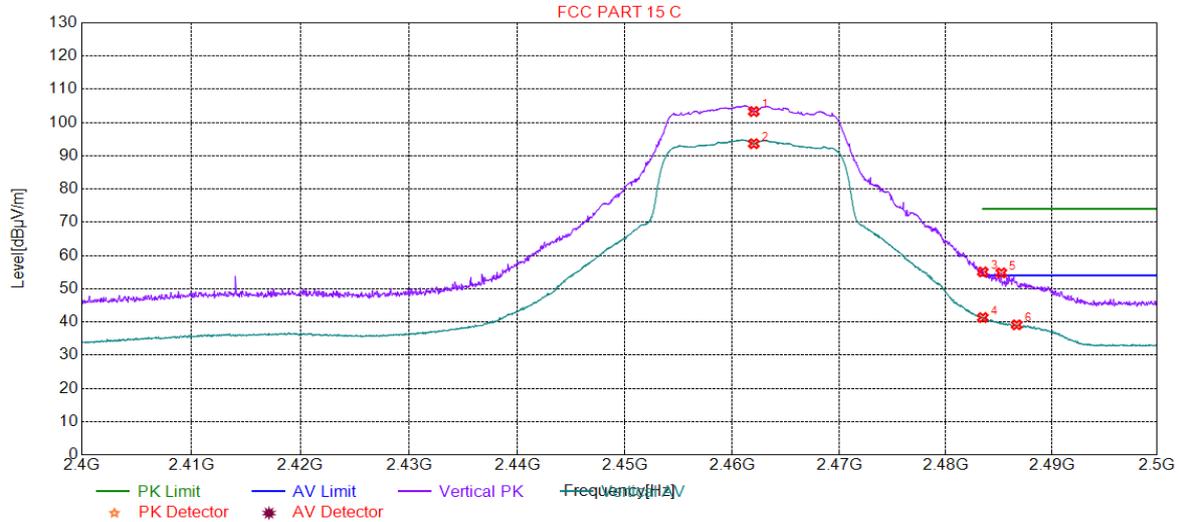
Table content is identical to the Suspected List table above.



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**4.10.1.8 802.11G\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	103.30	0.00	-103.30	206	0	Vertical
2	2462.000	93.63	0.00	-93.63	248	0	Vertical
3	2483.500	55.06	74.00	18.94	273	346	Vertical
4	2483.500	41.34	54.00	12.66	198	346	Vertical
5	2485.242	54.76	74.00	19.24	163	346	Vertical
6	2486.693	39.15	54.00	14.85	184	346	Vertical

**Final Data List**

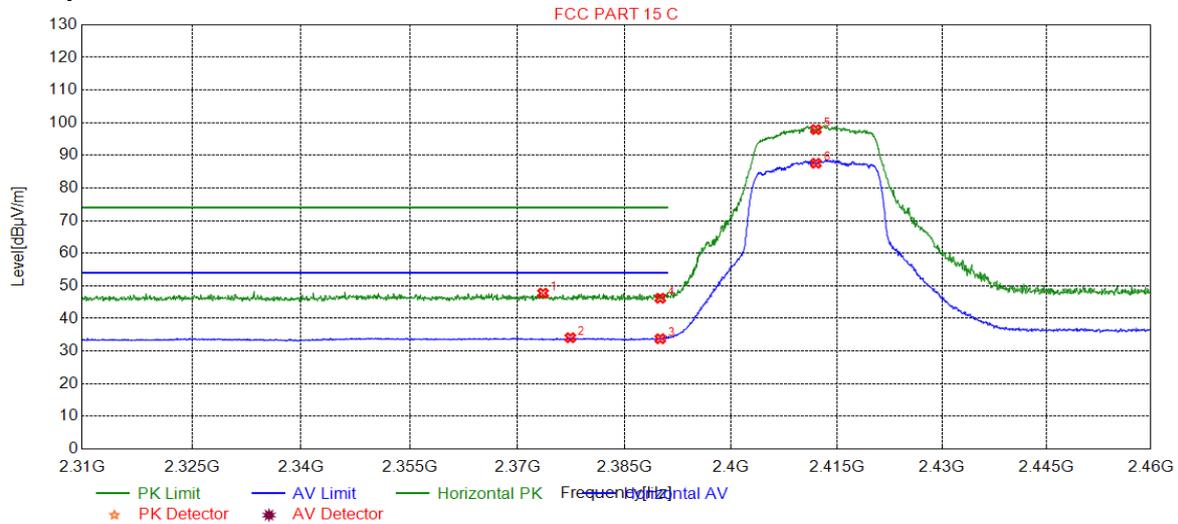
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### 4.10.1.9 802.11N20\_Channel 1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.556	47.78	74.00	26.22	198	14	Horizontal
2	2377.383	34.11	54.00	19.89	241	356	Horizontal
3	2390.000	33.80	54.00	20.20	186	56	Horizontal
4	2390.000	46.22	74.00	27.78	148	33	Horizontal
5	2412.000	97.90	0.00	-97.90	150	215	Horizontal
6	2412.000	87.57	0.00	-87.57	104	211	Horizontal

#### Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.556	47.78	74.00	26.22	198	14	Horizontal
2	2377.383	34.11	54.00	19.89	241	356	Horizontal
3	2390.000	33.80	54.00	20.20	186	56	Horizontal
4	2390.000	46.22	74.00	27.78	148	33	Horizontal
5	2412.000	97.90	0.00	-97.90	150	215	Horizontal
6	2412.000	87.57	0.00	-87.57	104	211	Horizontal

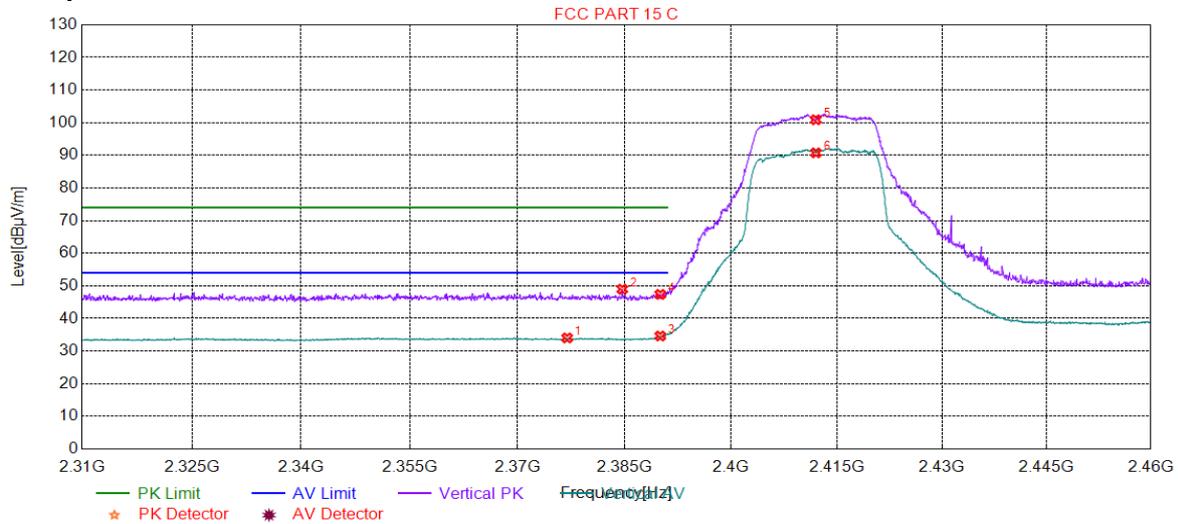


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4.10.1.10 802.11N20\_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.933	34.05	54.00	19.95	182	346	Vertical
2	2384.662	49.00	74.00	25.00	163	316	Vertical
3	2390.000	34.65	54.00	19.35	255	312	Vertical
4	2390.000	47.39	74.00	26.61	157	328	Vertical
5	2412.000	100.91	0.00	-100.91	242	346	Vertical
6	2412.000	90.77	0.00	-90.77	269	342	Vertical

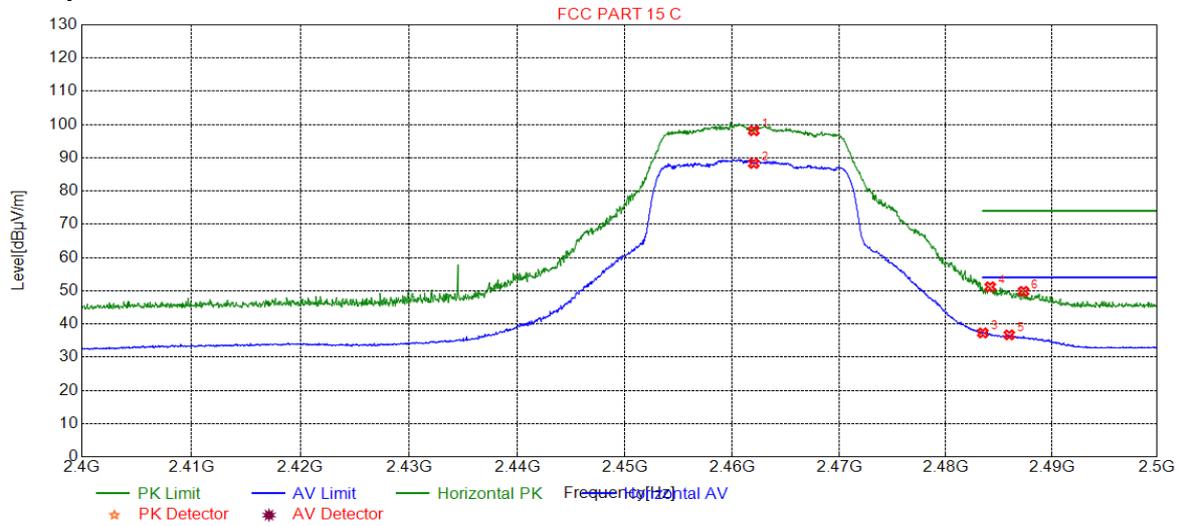
Final Data List



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4.10.1.11 802.11N20\_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	98.12	0.00	-98.12	192	212	Horizontal
2	2462.000	88.29	0.00	-88.29	104	212	Horizontal
3	2483.500	37.32	54.00	16.68	116	44	Horizontal
4	2484.192	51.18	74.00	22.82	206	216	Horizontal
5	2485.993	36.73	54.00	17.27	223	40	Horizontal
6	2487.343	49.82	74.00	24.18	213	220	Horizontal

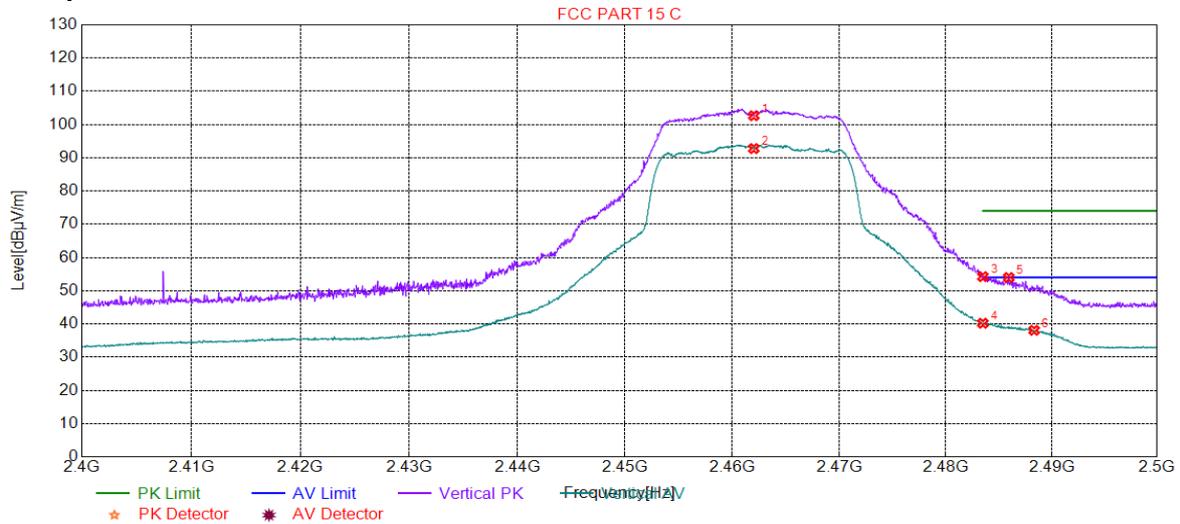
Final Data List



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4.10.1.12 802.11N20\_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	102.65	0.00	-102.65	201	339	Vertical
2	2462.000	92.77	0.00	-92.77	226	342	Vertical
3	2483.500	54.24	74.00	19.76	178	328	Vertical
4	2483.500	40.24	54.00	13.76	213	335	Vertical
5	2485.943	53.98	74.00	20.02	233	339	Vertical
6	2488.344	38.11	54.00	15.89	198	339	Vertical

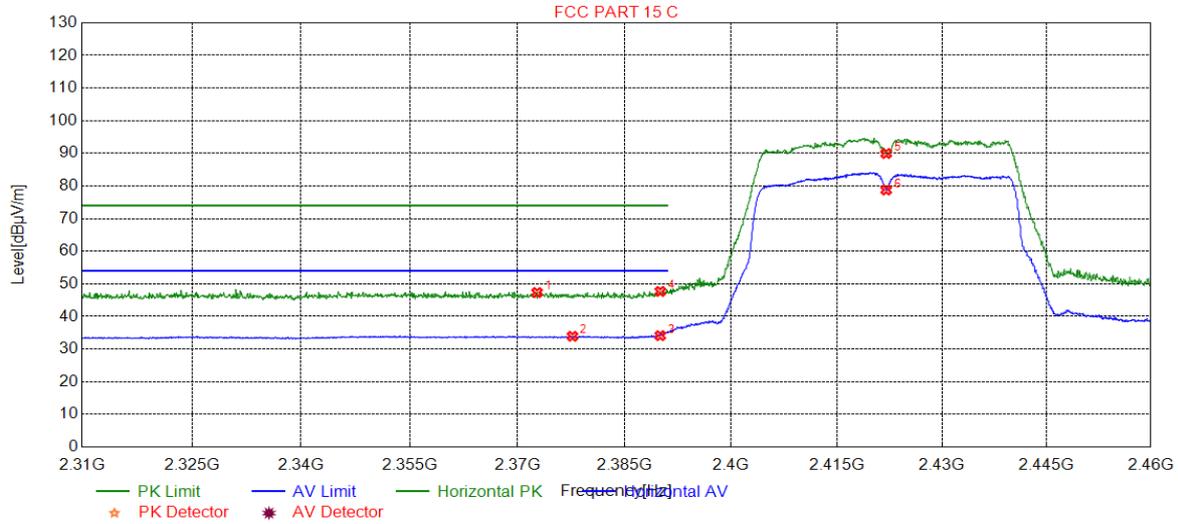
Final Data List



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### 4.10.1.13 802.11N40\_Channel 3

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.731	47.36	74.00	26.64	125	249	Horizontal
2	2377.683	33.95	54.00	20.05	140	14	Horizontal
3	2390.000	34.14	54.00	19.86	179	36	Horizontal
4	2390.000	47.70	74.00	26.30	108	55	Horizontal
5	2422.000	89.96	0.00	-89.96	117	44	Horizontal
6	2422.000	78.77	0.00	-78.77	135	211	Horizontal

#### Final Data List

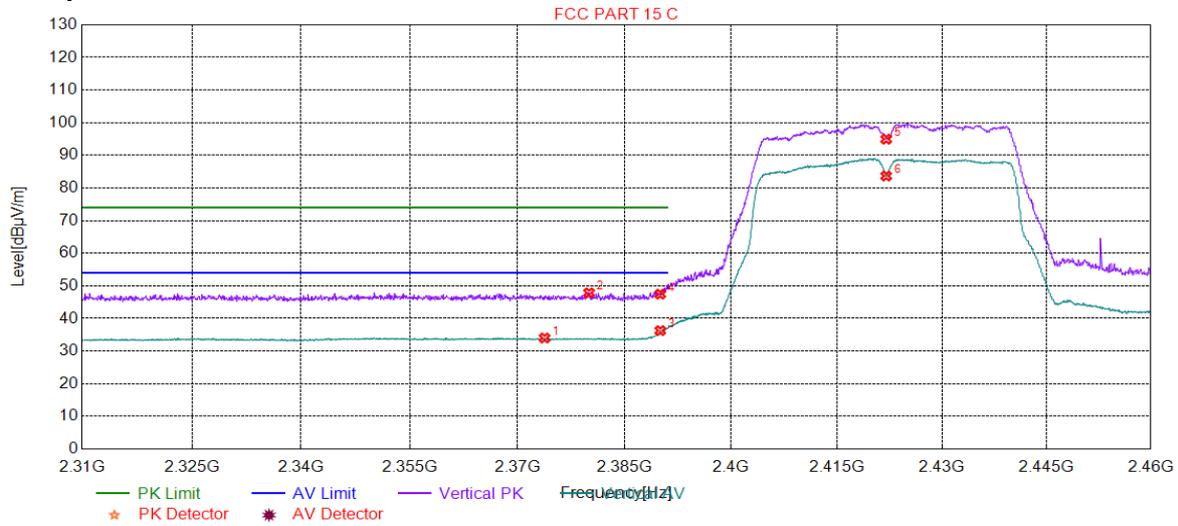


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### 4.10.1.14 802.11N40\_Channel 3

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.781	34.03	54.00	19.97	241	312	Vertical
2	2380.010	47.87	74.00	26.13	280	259	Vertical
3	2390.000	36.30	54.00	17.70	262	338	Vertical
4	2390.000	47.48	74.00	26.52	206	331	Vertical
5	2422.000	94.96	0.00	-94.96	272	338	Vertical
6	2422.000	83.67	0.00	-83.67	164	338	Vertical

#### Final Data List

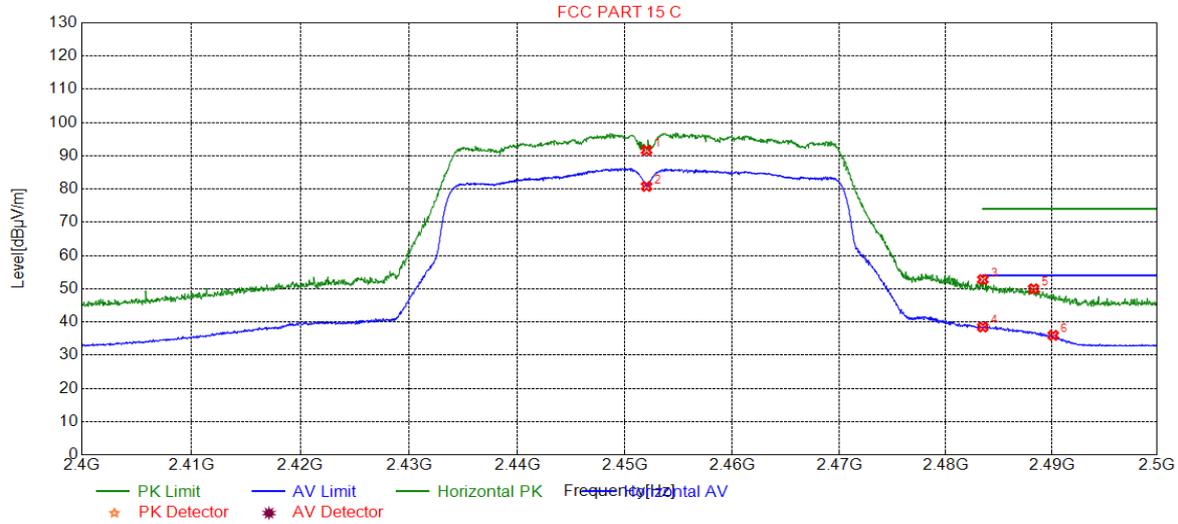


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4.10.1.15 802.11N40\_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	91.64	0.00	-91.64	230	211	Horizontal
2	2452.000	80.79	0.00	-80.79	213	207	Horizontal
3	2483.500	52.76	74.00	21.24	122	207	Horizontal
4	2483.500	38.49	54.00	15.51	126	211	Horizontal
5	2488.294	49.98	74.00	24.02	223	211	Horizontal
6	2490.145	35.98	54.00	18.02	194	211	Horizontal

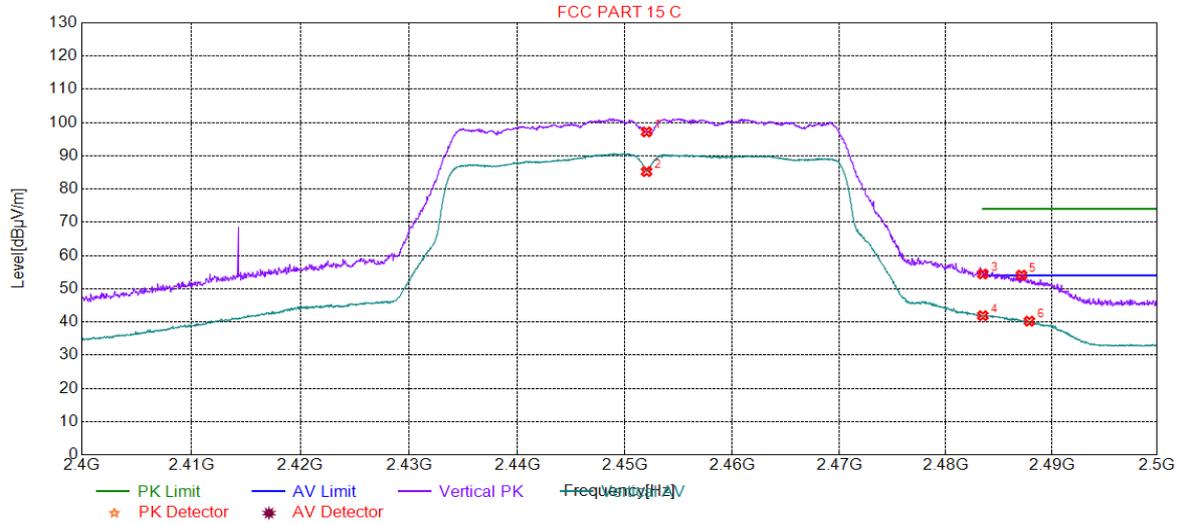
Final Data List



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**4.10.1.16 802.11N40\_Channel 9**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	97.18	0.00	-97.18	274	335	Vertical
2	2452.000	85.24	0.00	-85.24	254	342	Vertical
3	2483.500	54.44	74.00	19.56	273	312	Vertical
4	2483.500	41.89	54.00	12.11	249	338	Vertical
5	2487.143	54.10	74.00	19.90	207	308	Vertical
6	2487.893	40.25	54.00	13.75	157	338	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	Spurious emissions, conducted	± 3.0dB (150kHz to 30MHz)
2	Radiated Spurious emission test	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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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	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

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
				2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/B0003.



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# Appendix



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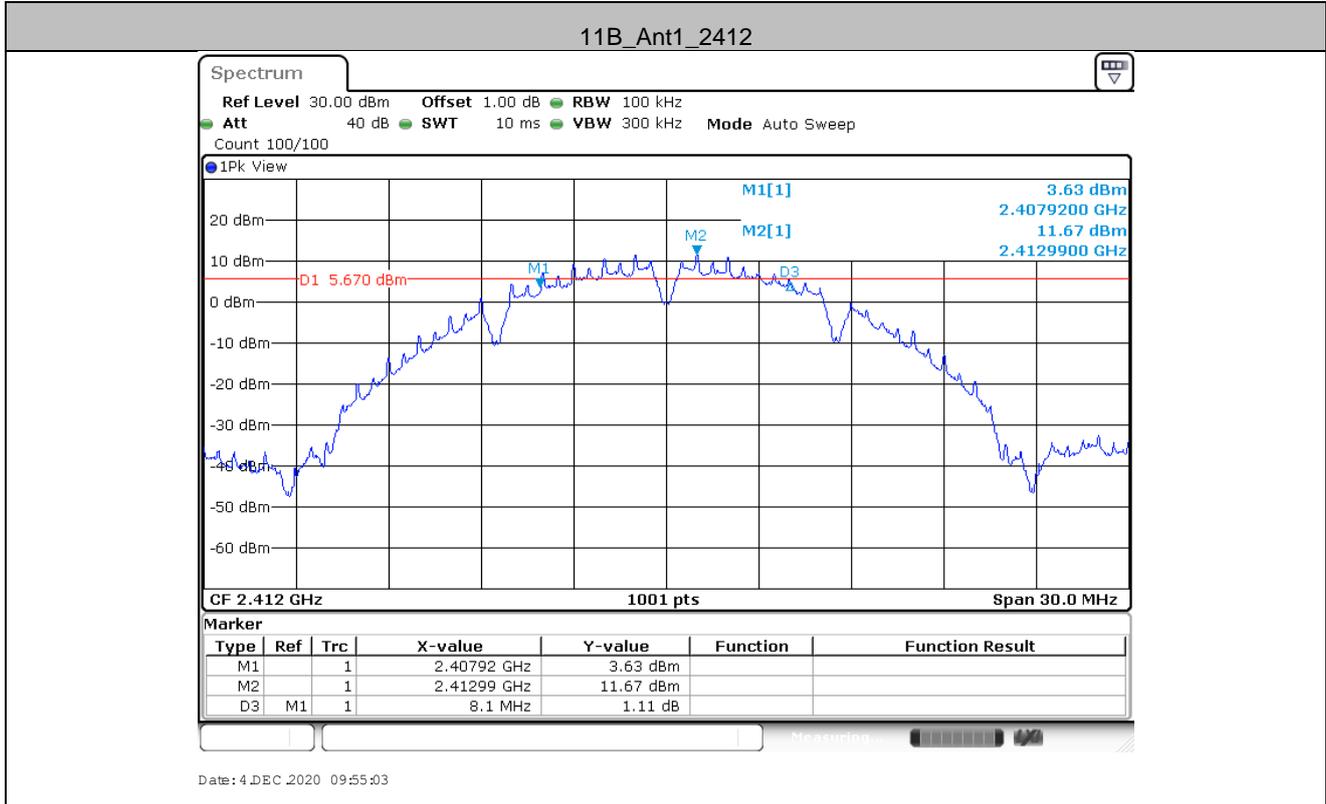
**DTS Bandwidth**  
**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.100	2407.920	2416.020	0.5	PASS
		2437	7.650	2432.920	2440.570	0.5	PASS
		2462	8.130	2457.920	2466.050	0.5	PASS
11G	Ant1	2412	15.510	2404.380	2419.890	0.5	PASS
		2437	15.570	2429.200	2444.770	0.5	PASS
		2462	15.210	2454.380	2469.590	0.5	PASS
11N20SISO	Ant1	2412	16.020	2404.380	2420.400	0.5	PASS
		2437	15.990	2428.570	2444.560	0.5	PASS
		2462	15.180	2454.380	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.360	2439.640	0.5	PASS
		2437	35.820	2419.360	2455.180	0.5	PASS
		2452	35.280	2434.360	2469.640	0.5	PASS



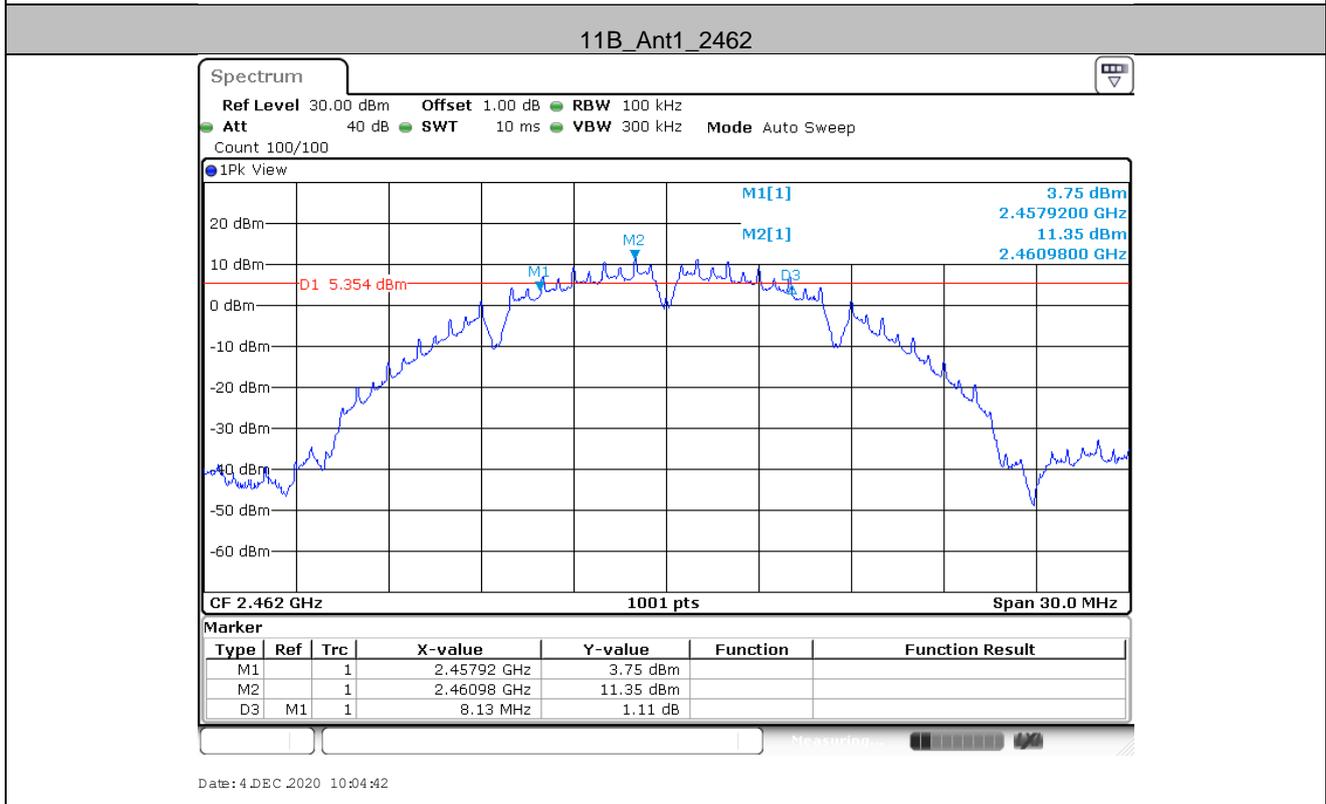
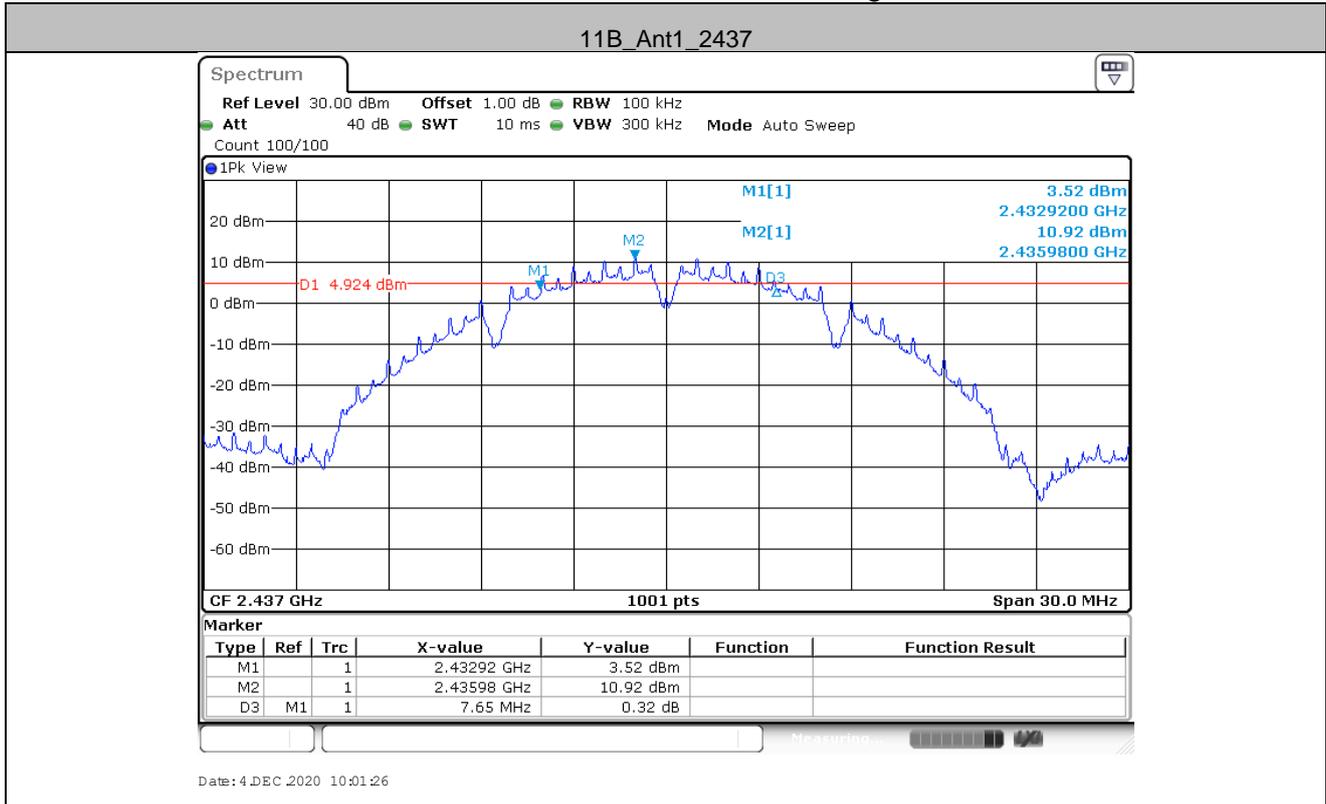
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### Test Graphs

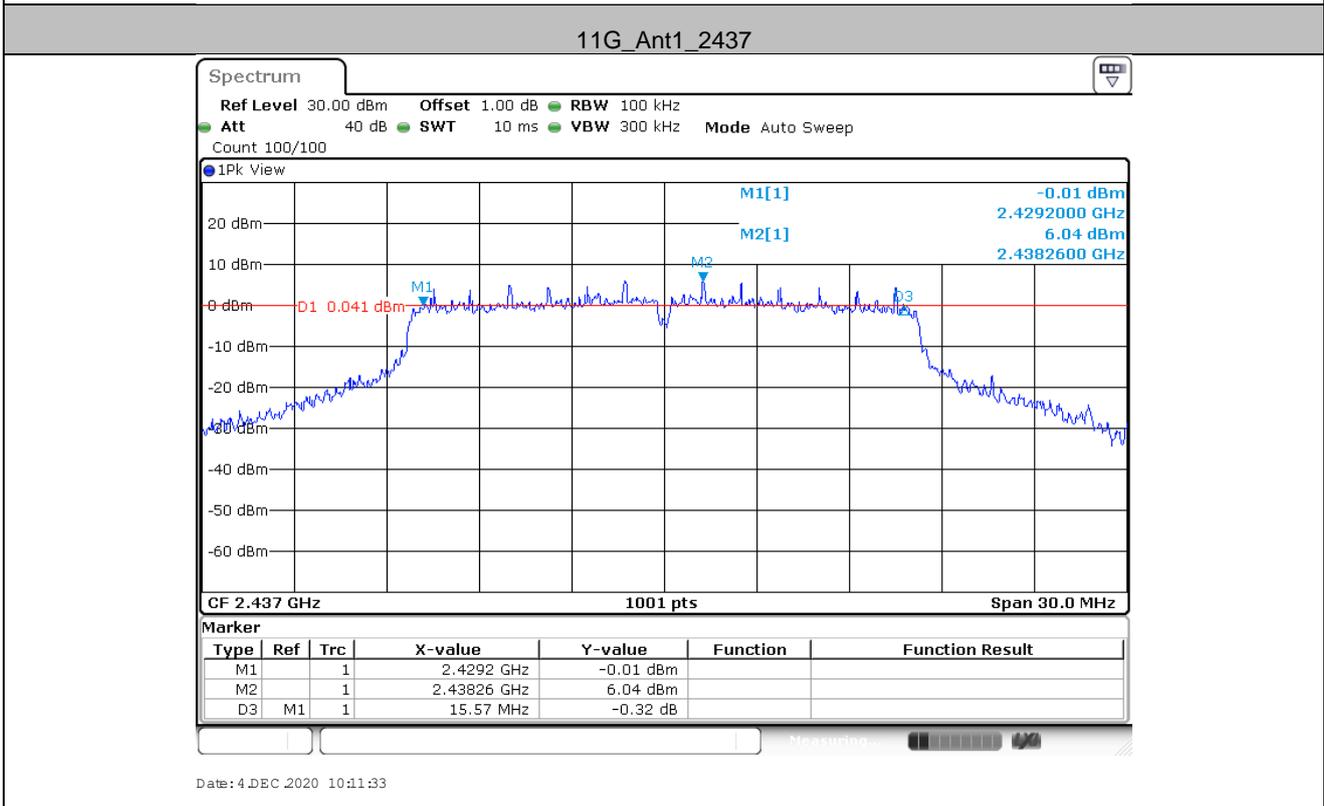
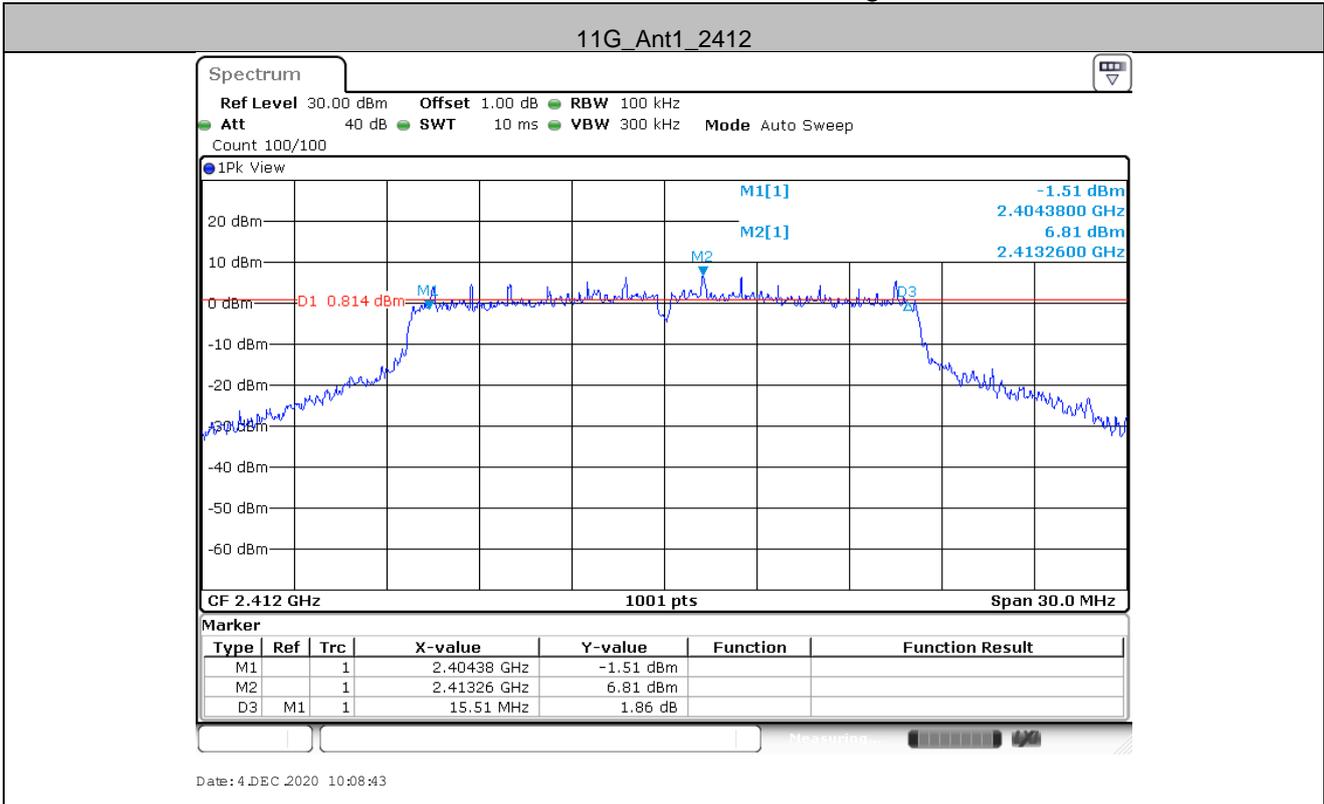


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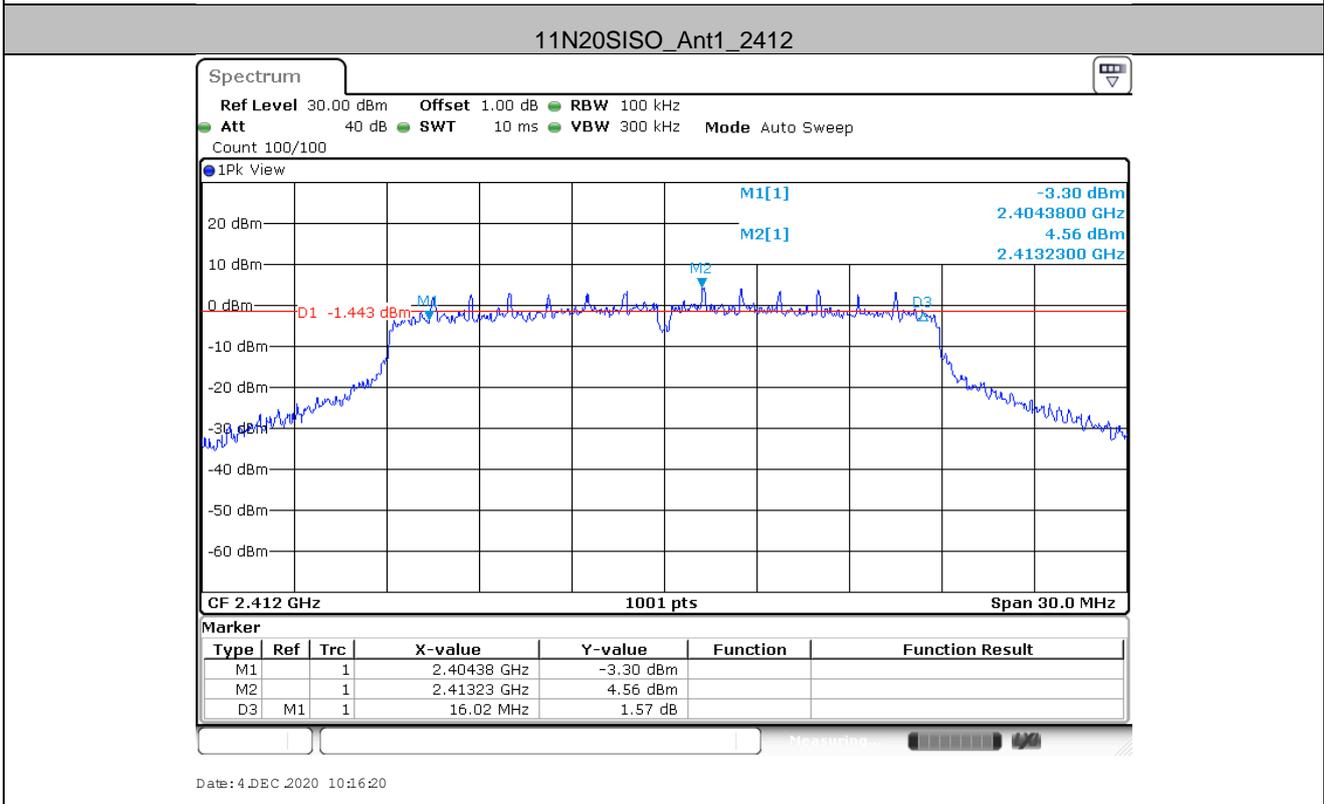
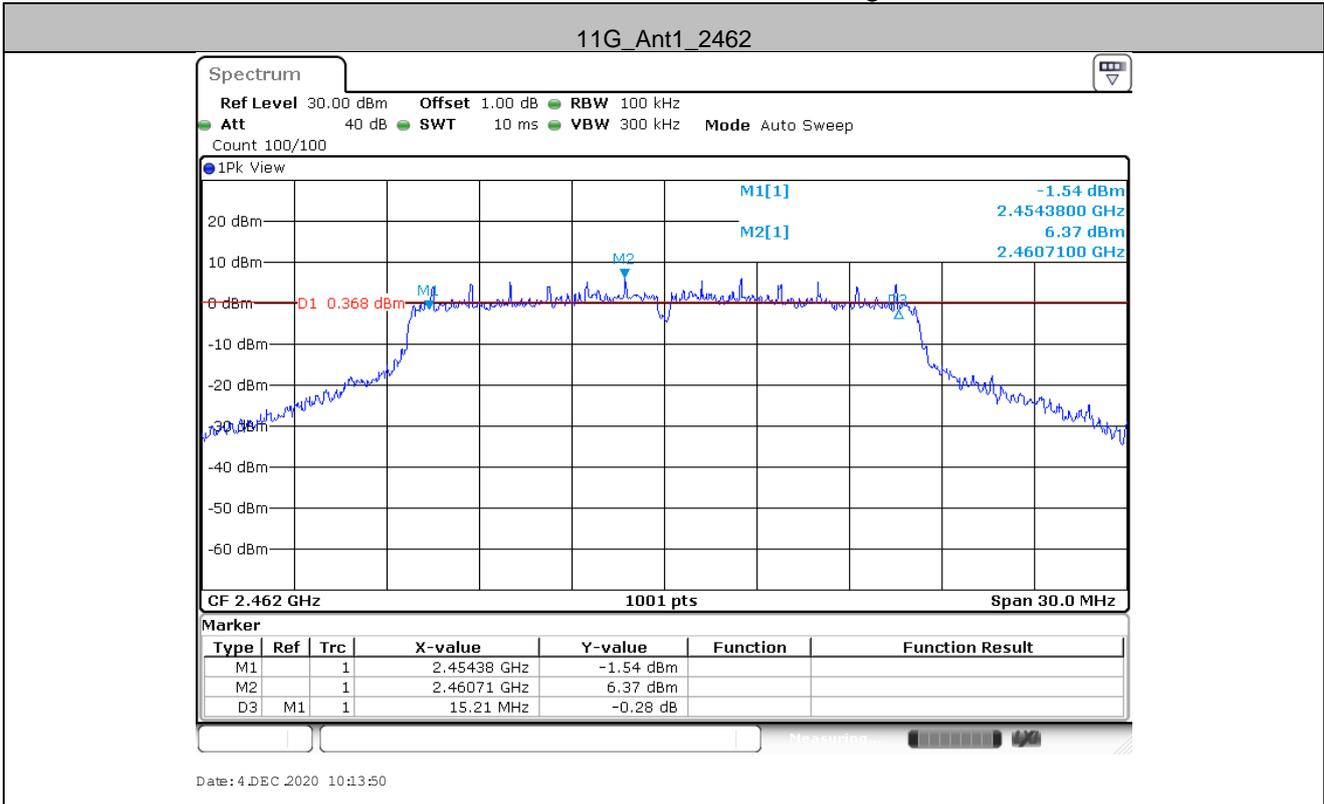


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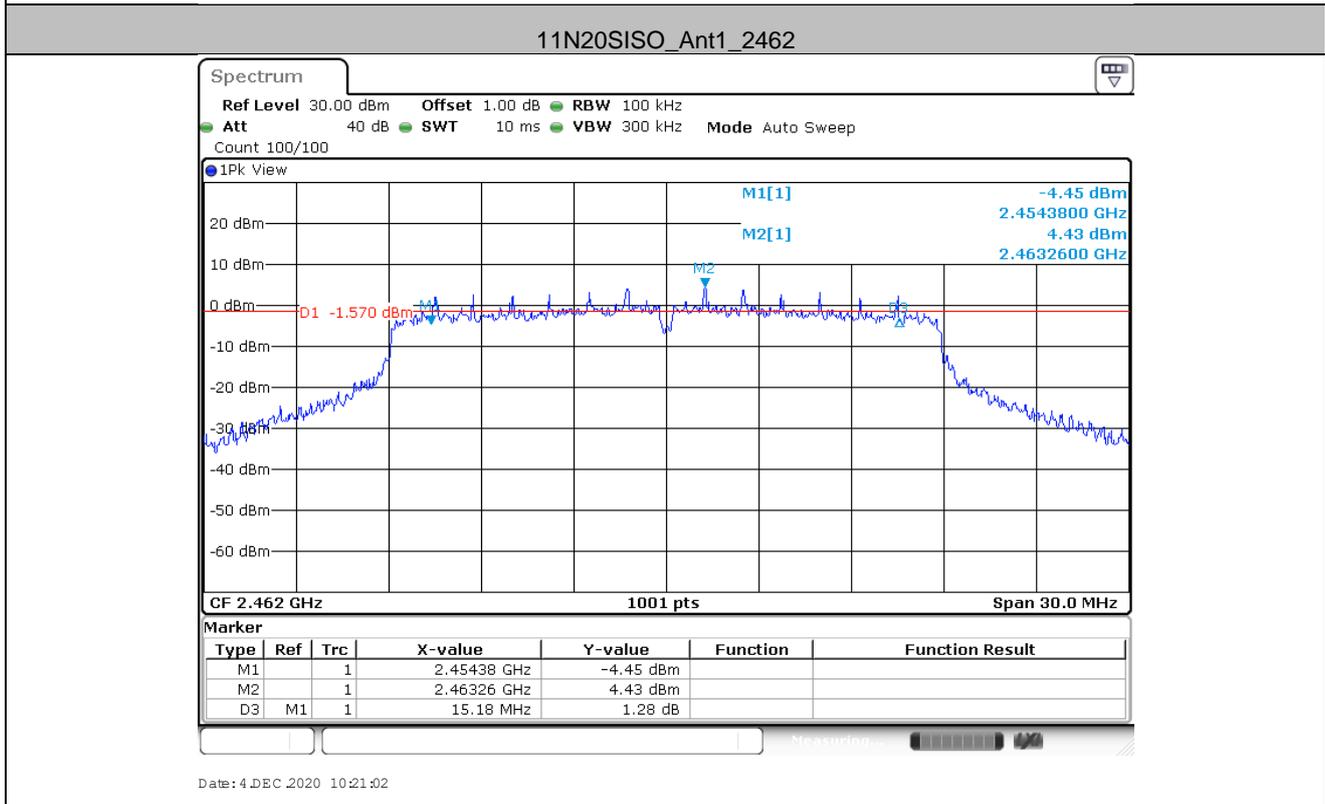
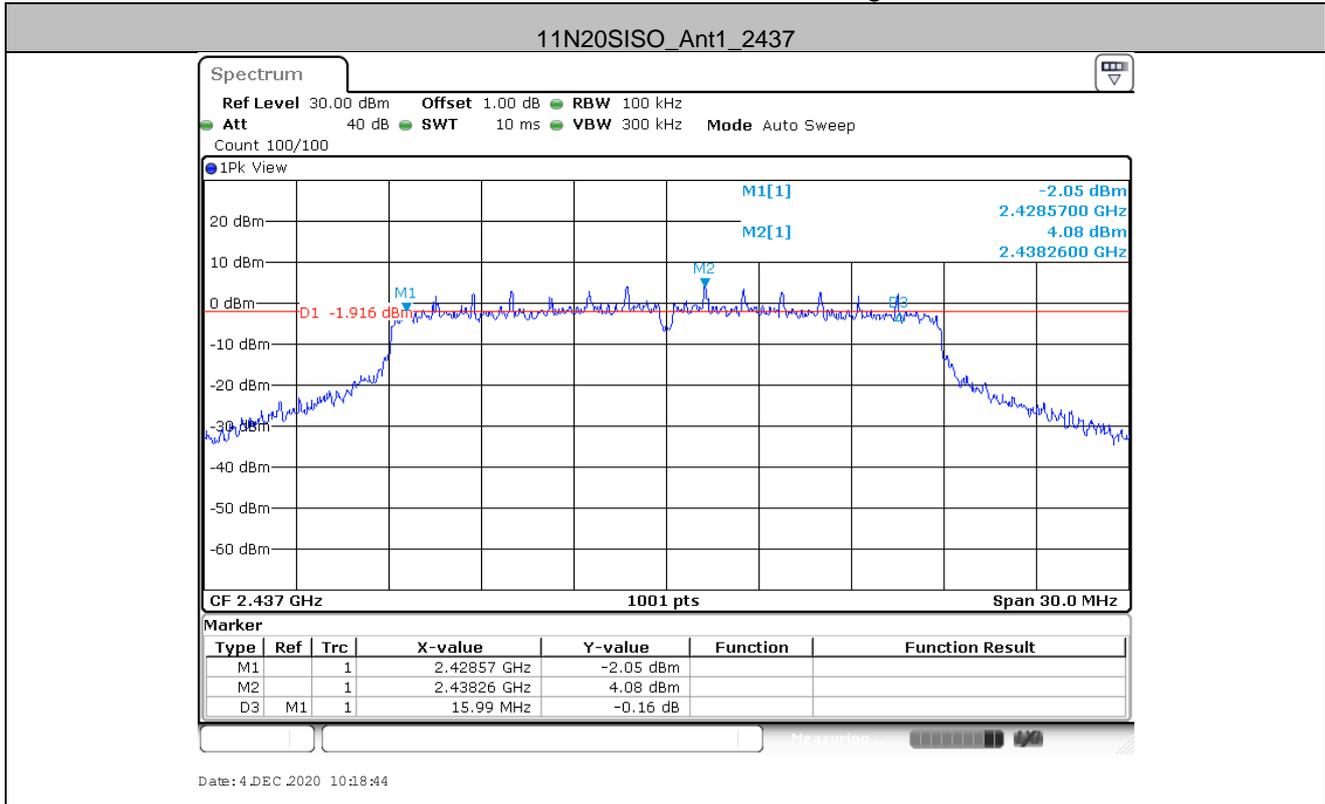
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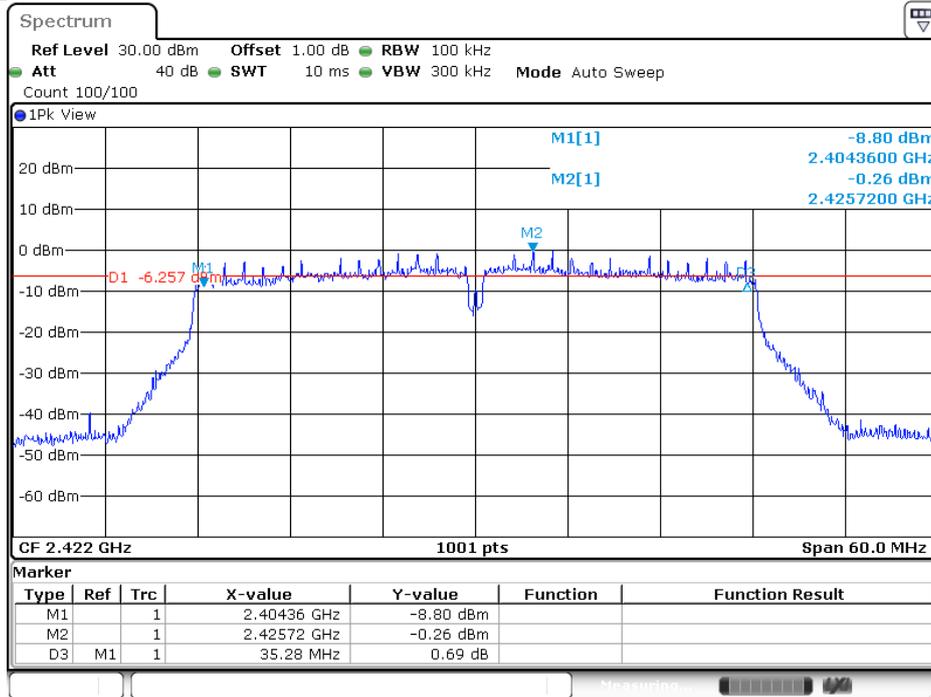
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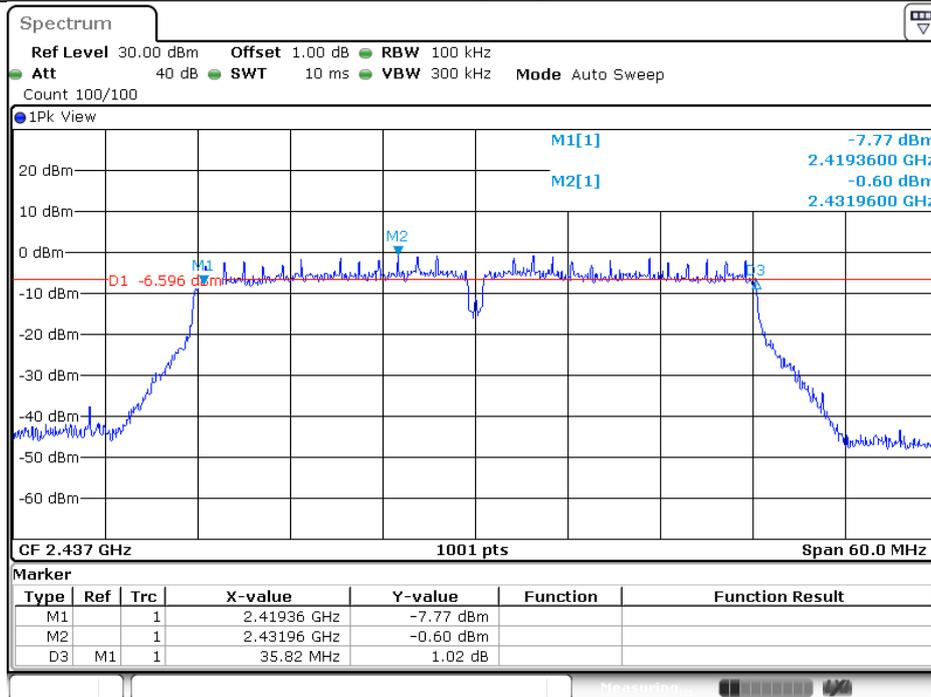
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### 11N40SISO\_Ant1\_2422



Date: 4 DEC 2020 10:24:57

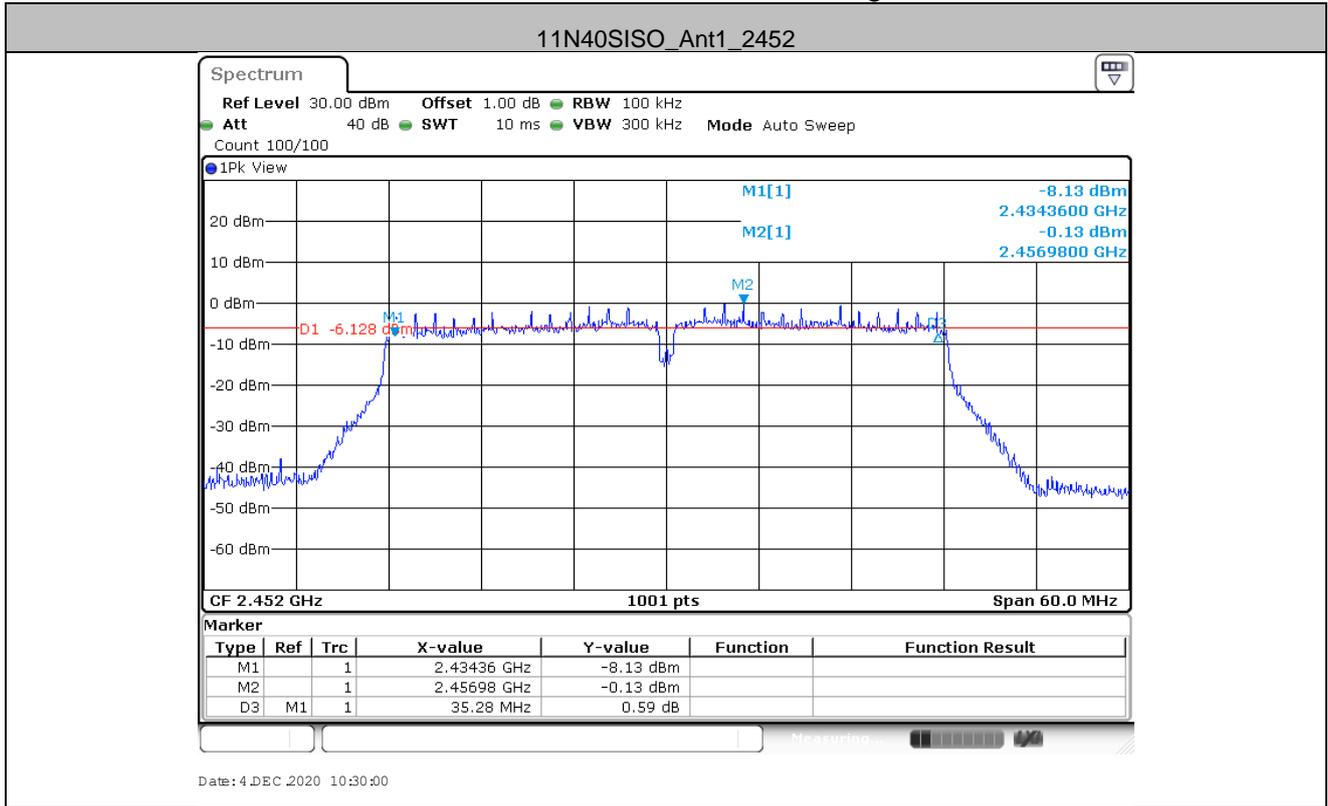
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Date: 4 DEC 2020 10:27:43



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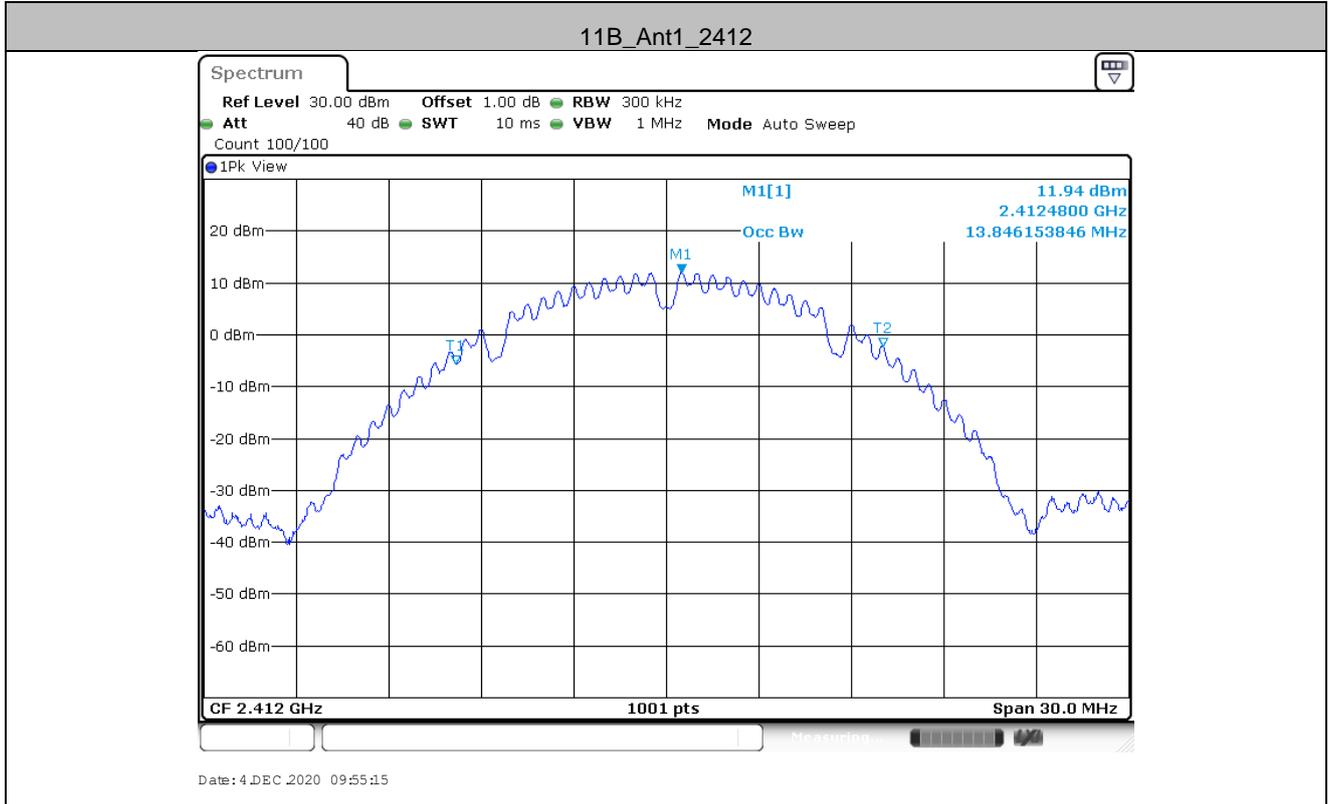
**Occupied Channel Bandwidth**  
**Test Result**

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		2437	13.906	2430.047	2443.953	---	PASS
		2462	13.846	2455.107	2468.953	---	PASS
11G	Ant1	2412	16.783	2403.668	2420.452	---	PASS
		2437	16.753	2428.608	2445.362	---	PASS
		2462	16.693	2453.638	2470.332	---	PASS
11N20SISO	Ant1	2412	17.952	2403.099	2421.051	---	PASS
		2437	17.952	2428.009	2445.961	---	PASS
		2462	17.862	2453.069	2470.931	---	PASS
11N40SISO	Ant1	2422	36.204	2403.958	2440.162	---	PASS
		2437	36.324	2418.898	2455.222	---	PASS
		2452	36.324	2433.898	2470.222	---	PASS



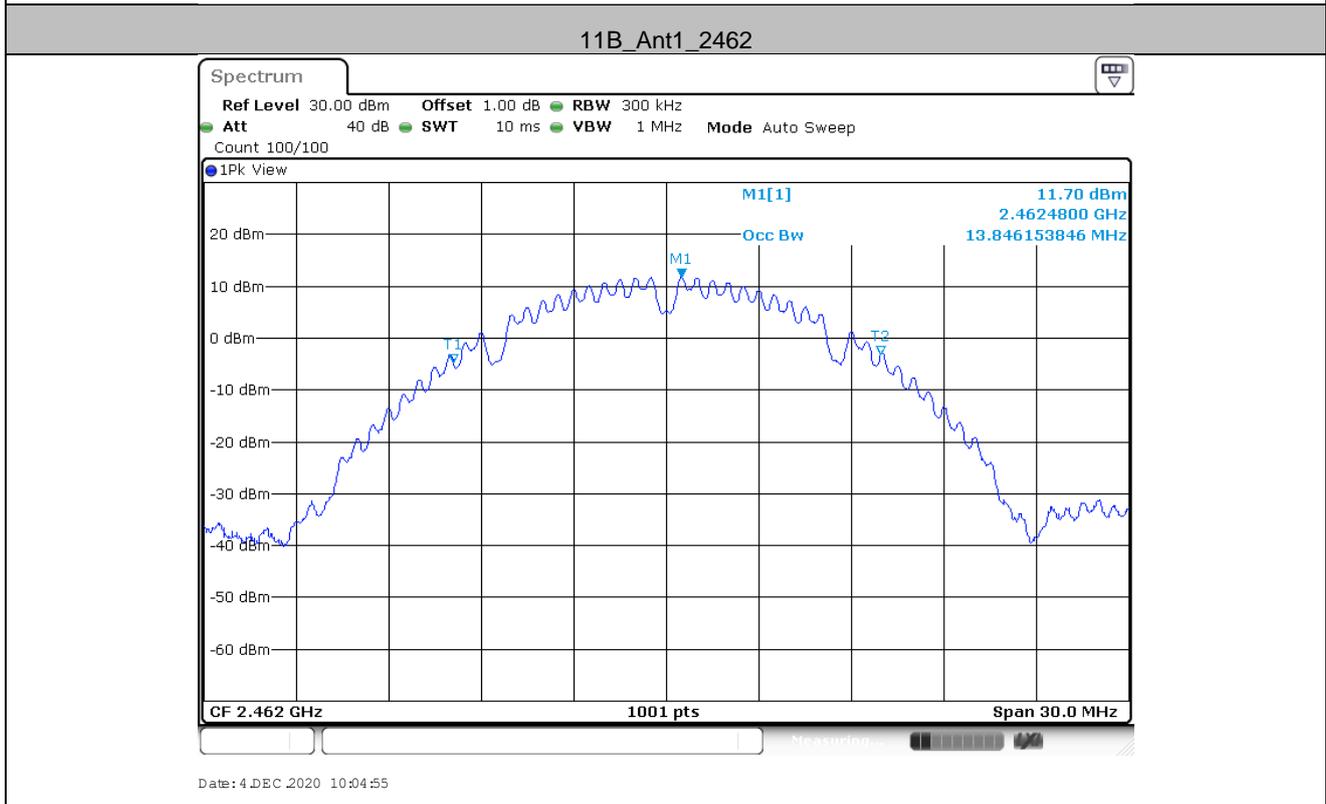
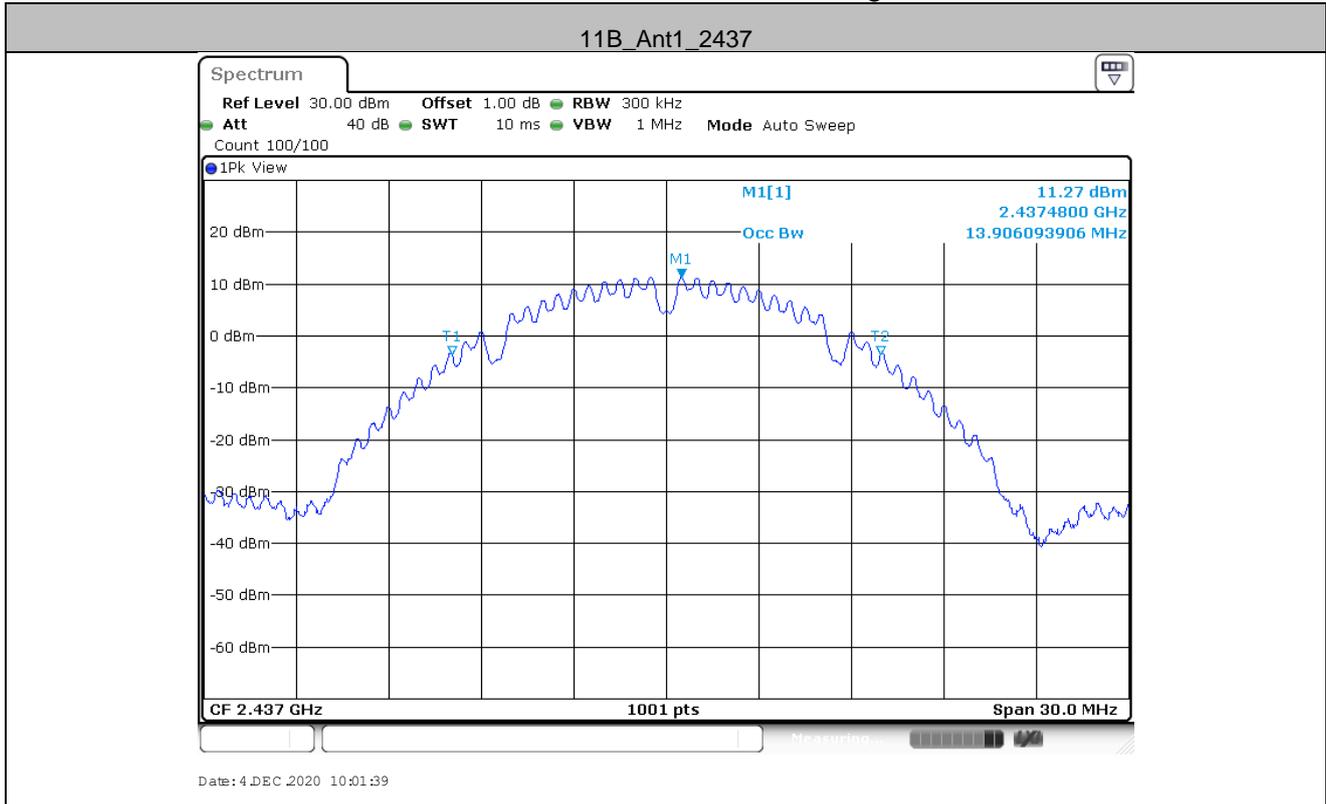
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### Test Graphs



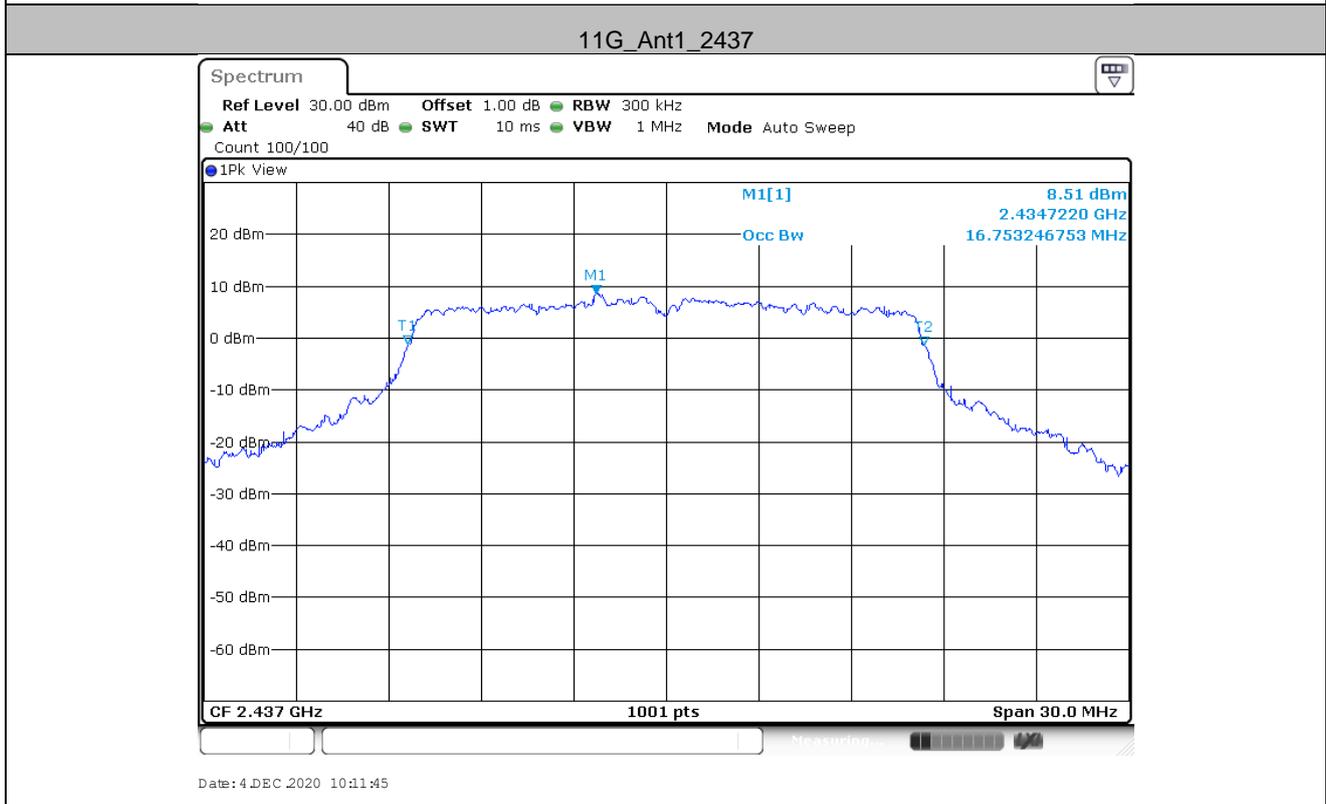
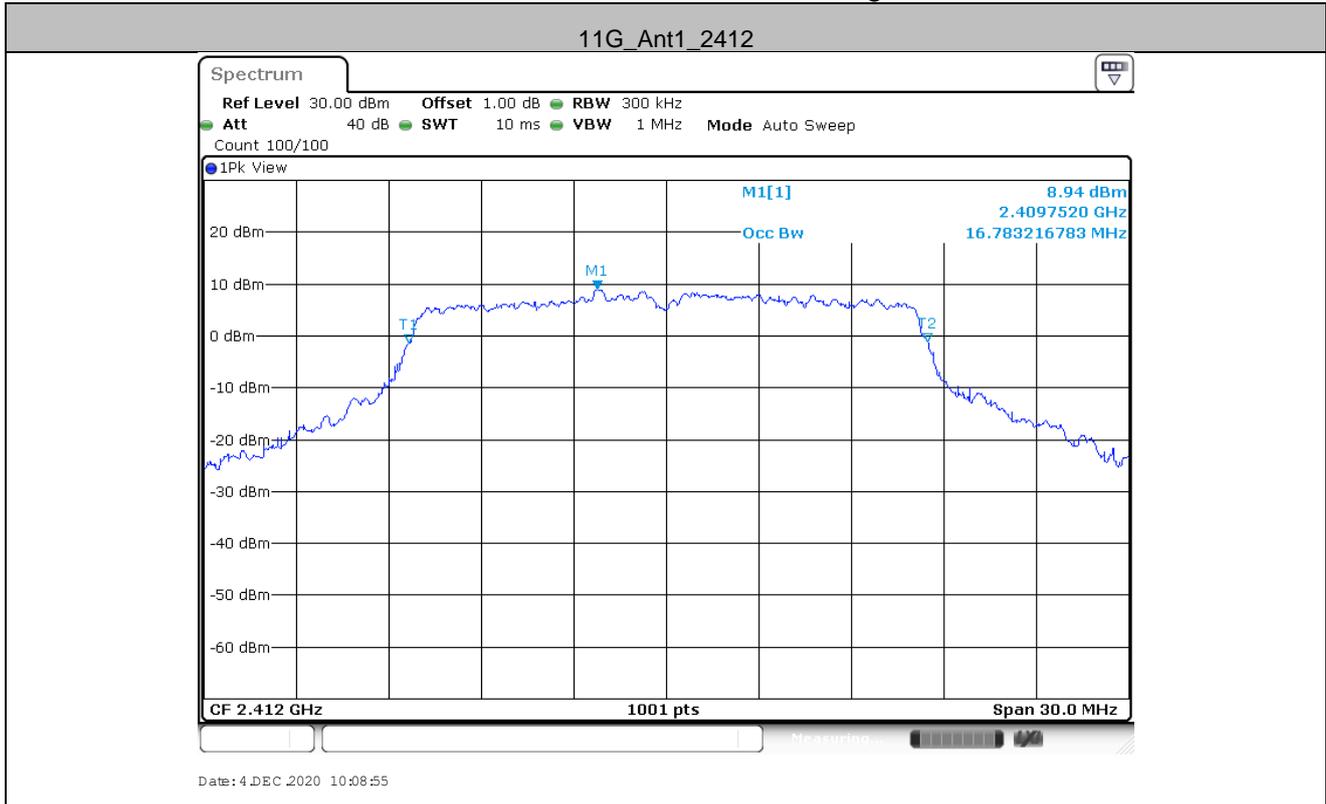
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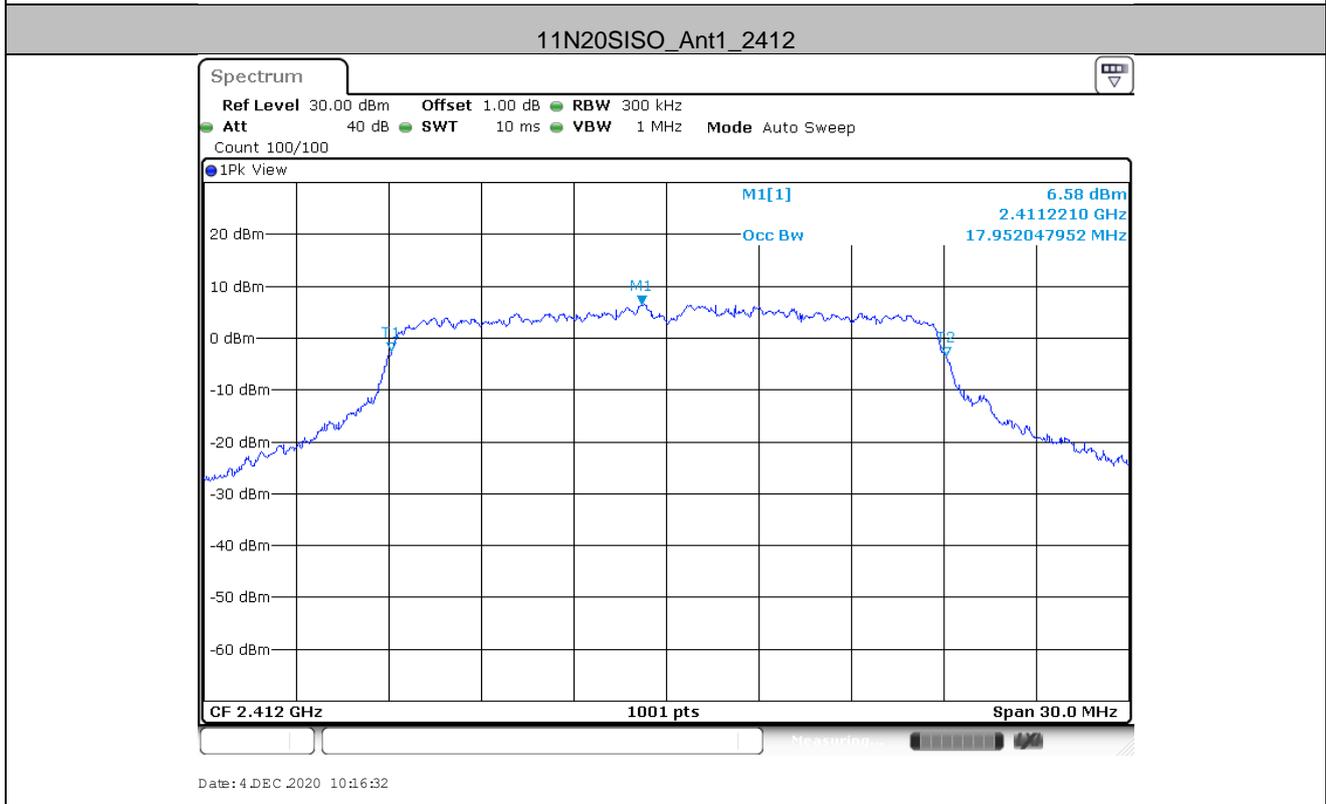
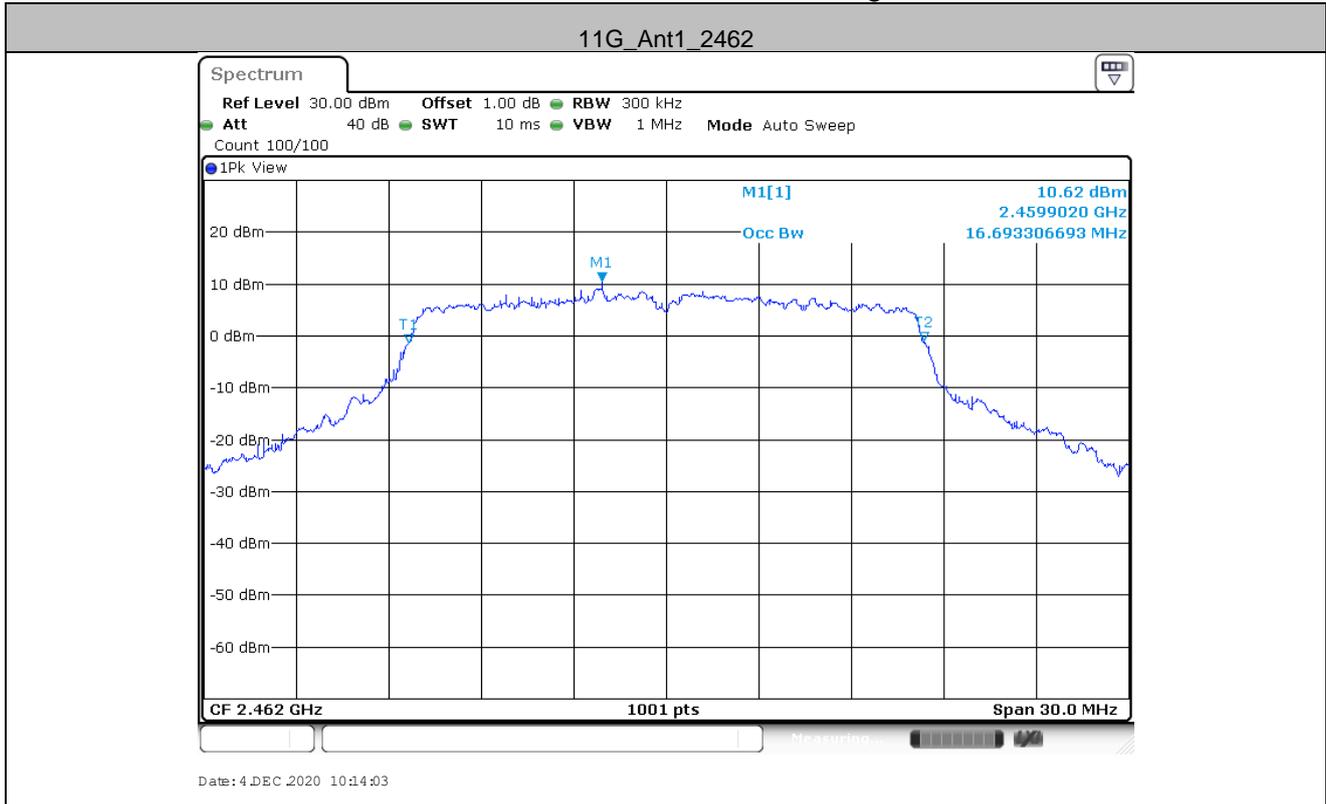
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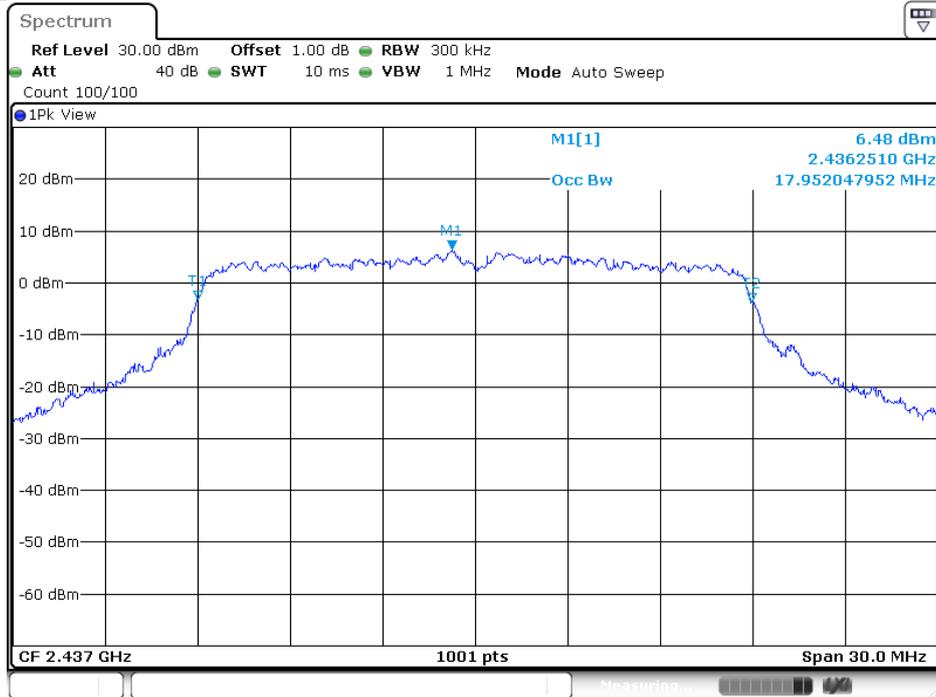
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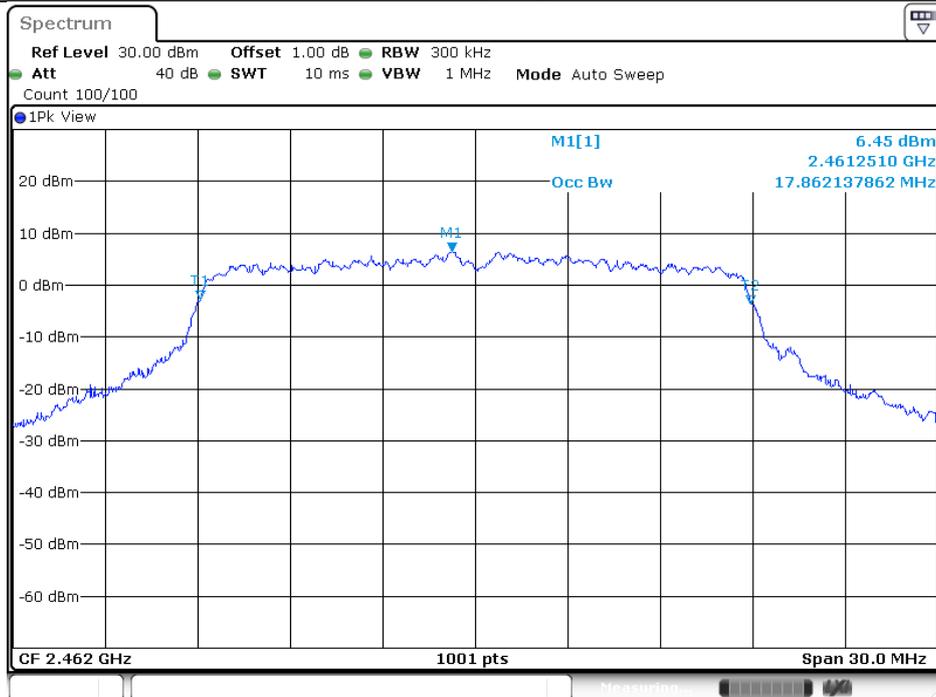
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11N20SISO\_Ant1\_2437



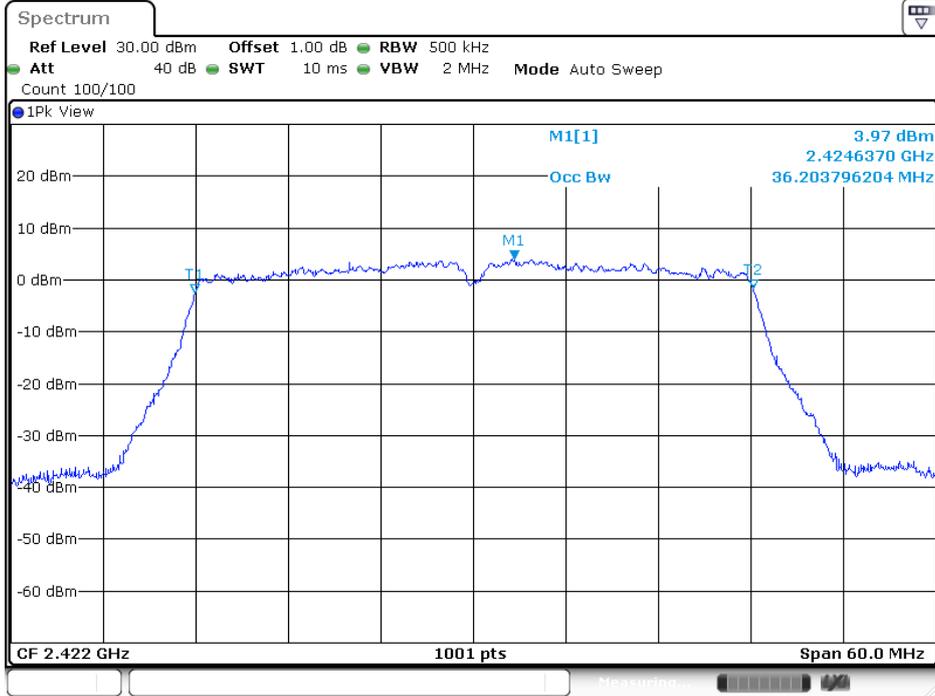
11N20SISO\_Ant1\_2462



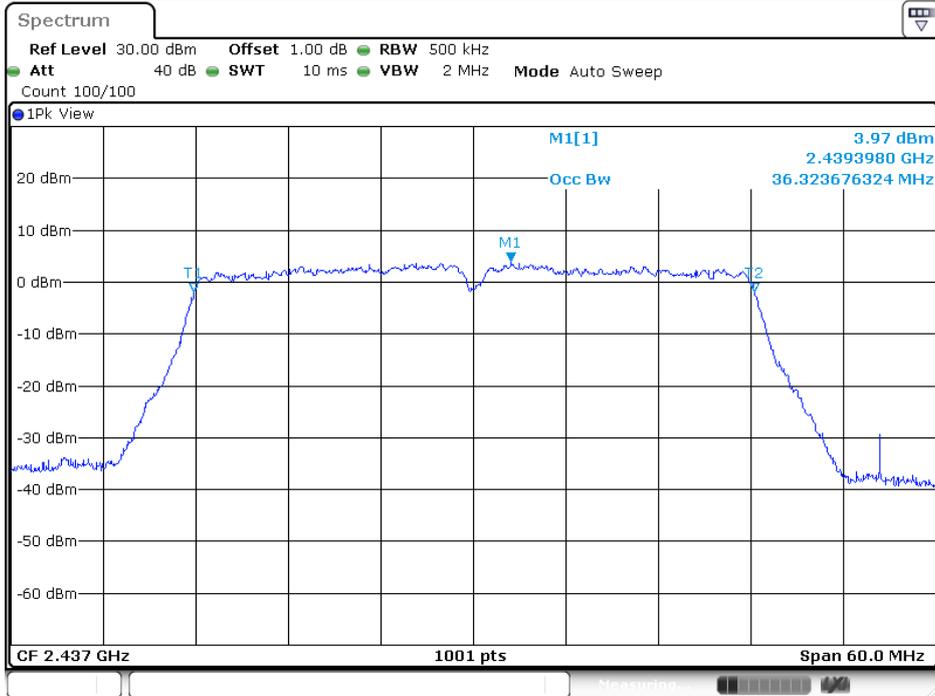
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### 11N40SISO\_Ant1\_2422



### 11N40SISO\_Ant1\_2437



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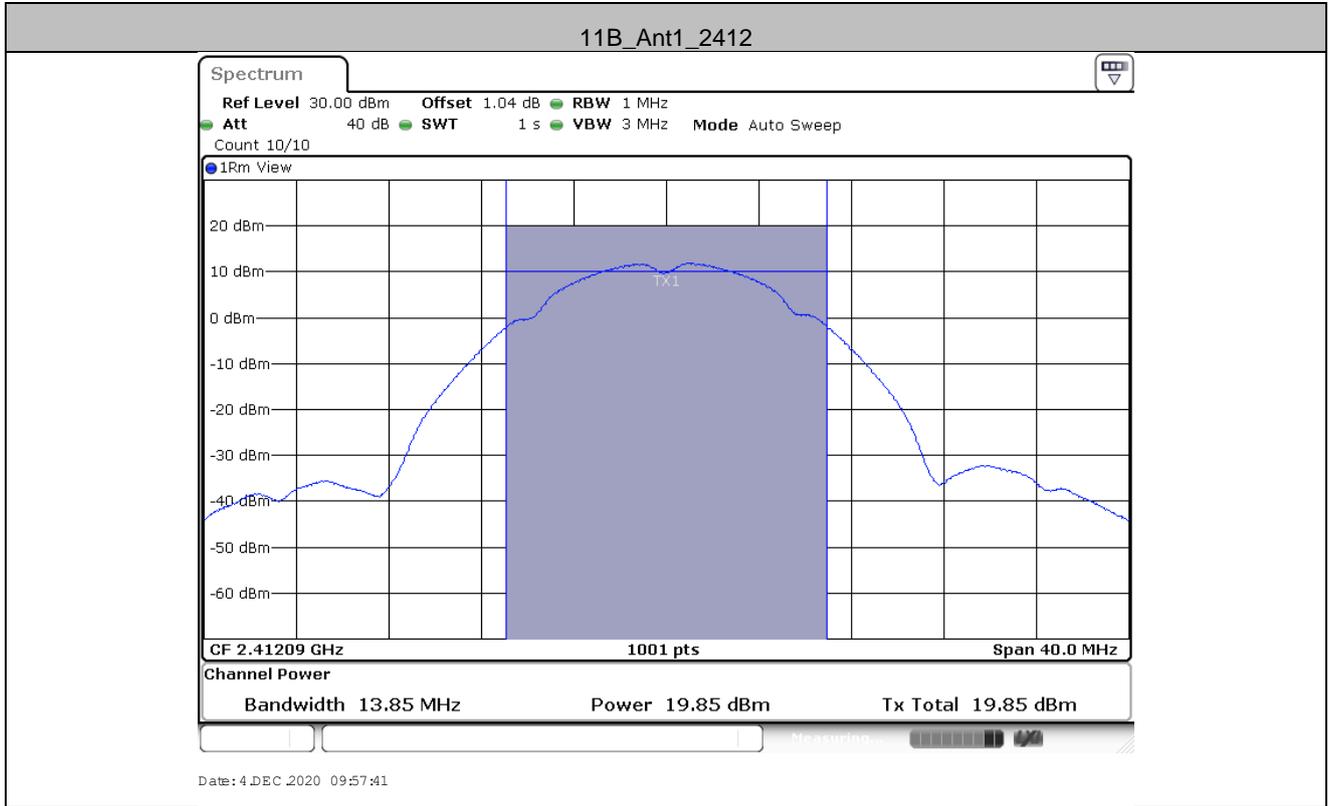
**Maximum conducted output power**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	19.85	<=30	PASS
		2437	19.19	<=30	PASS
		2462	19.67	<=30	PASS
11G	Ant1	2412	16.45	<=30	PASS
		2437	15.89	<=30	PASS
		2462	16.22	<=30	PASS
11N20SISO	Ant1	2412	14.26	<=30	PASS
		2437	13.81	<=30	PASS
		2462	14.06	<=30	PASS
11N40SISO	Ant1	2422	12.86	<=30	PASS
		2437	12.97	<=30	PASS
		2452	13.12	<=30	PASS



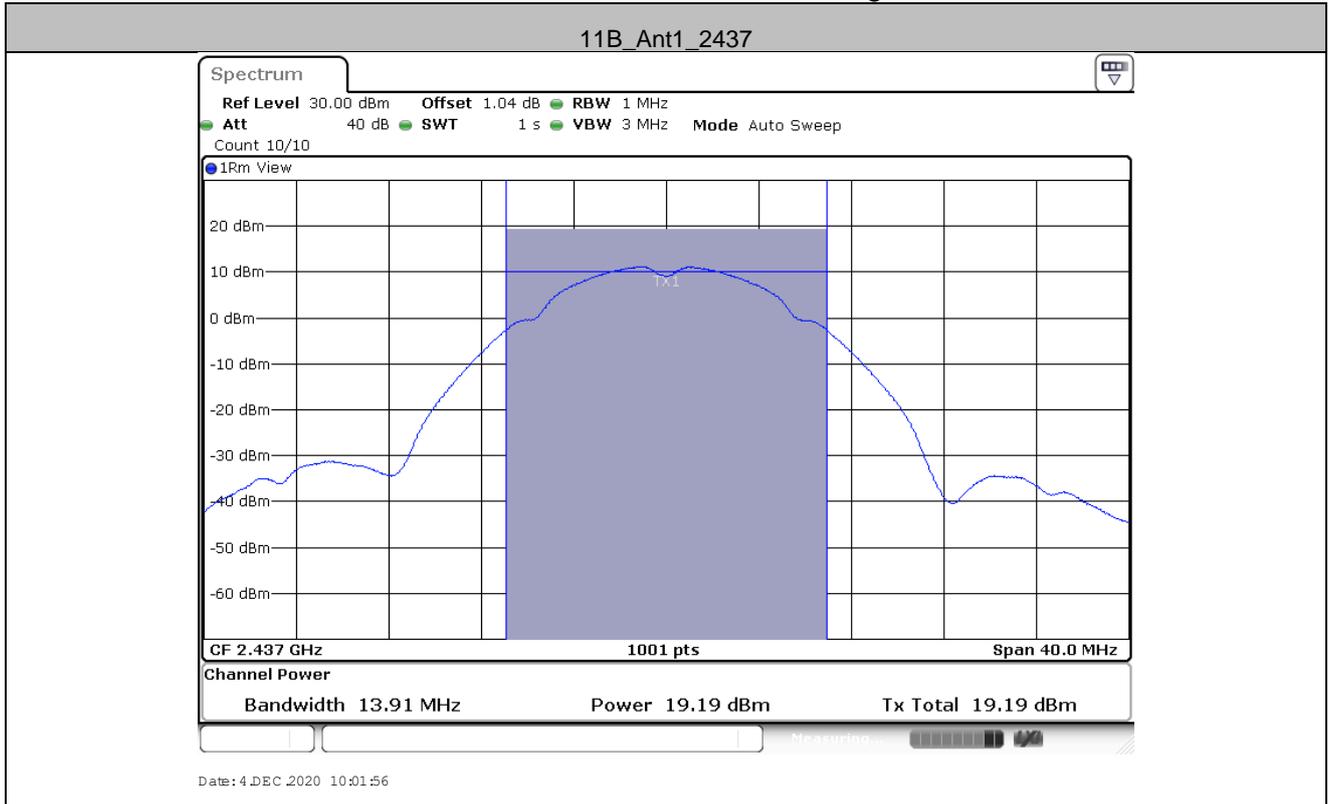
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### Test Graphs

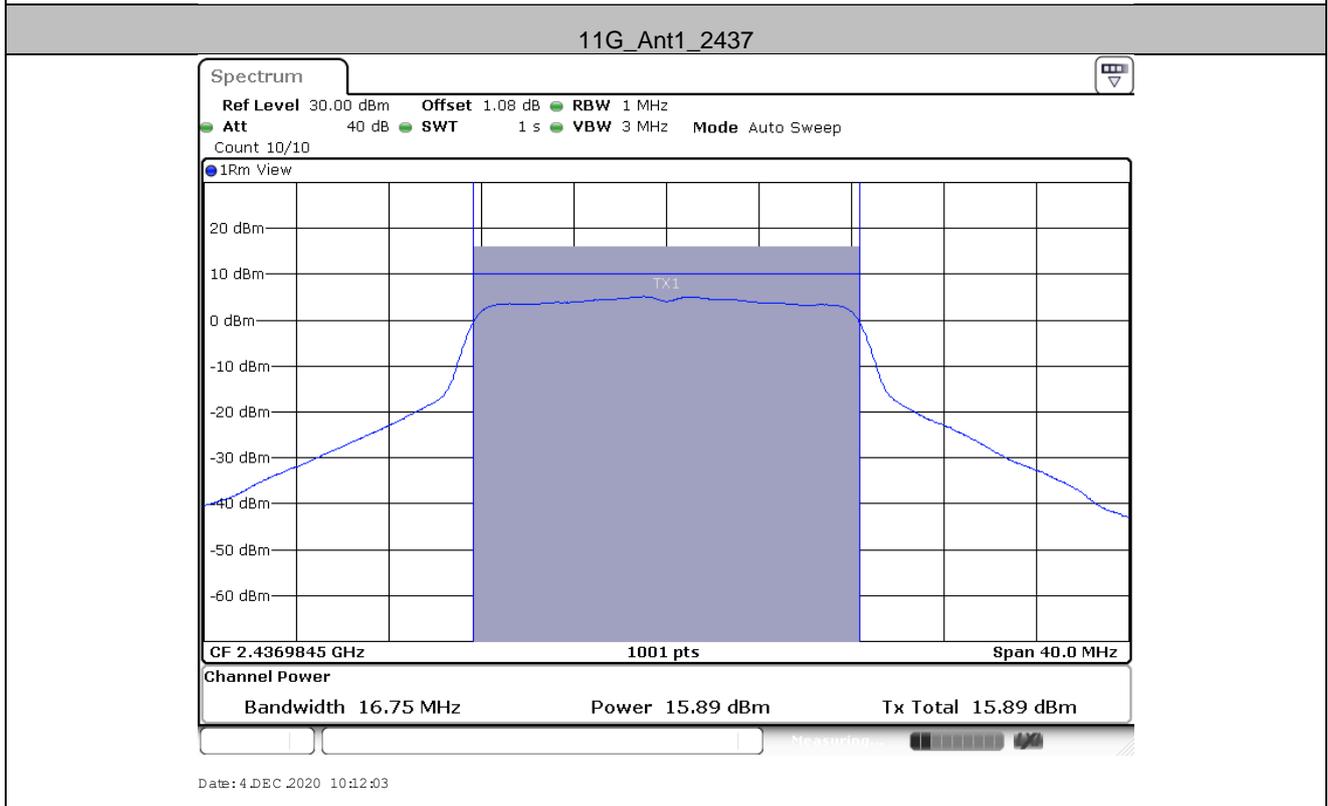
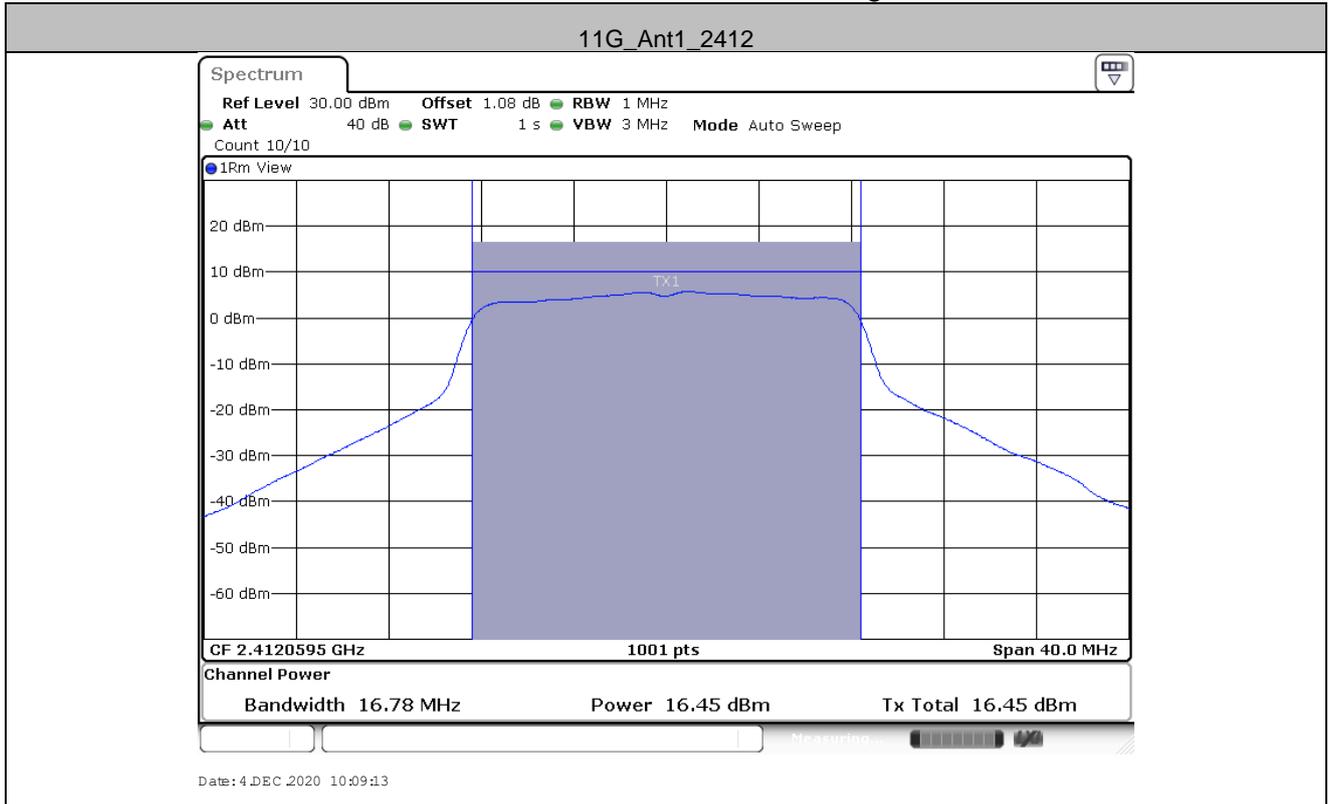


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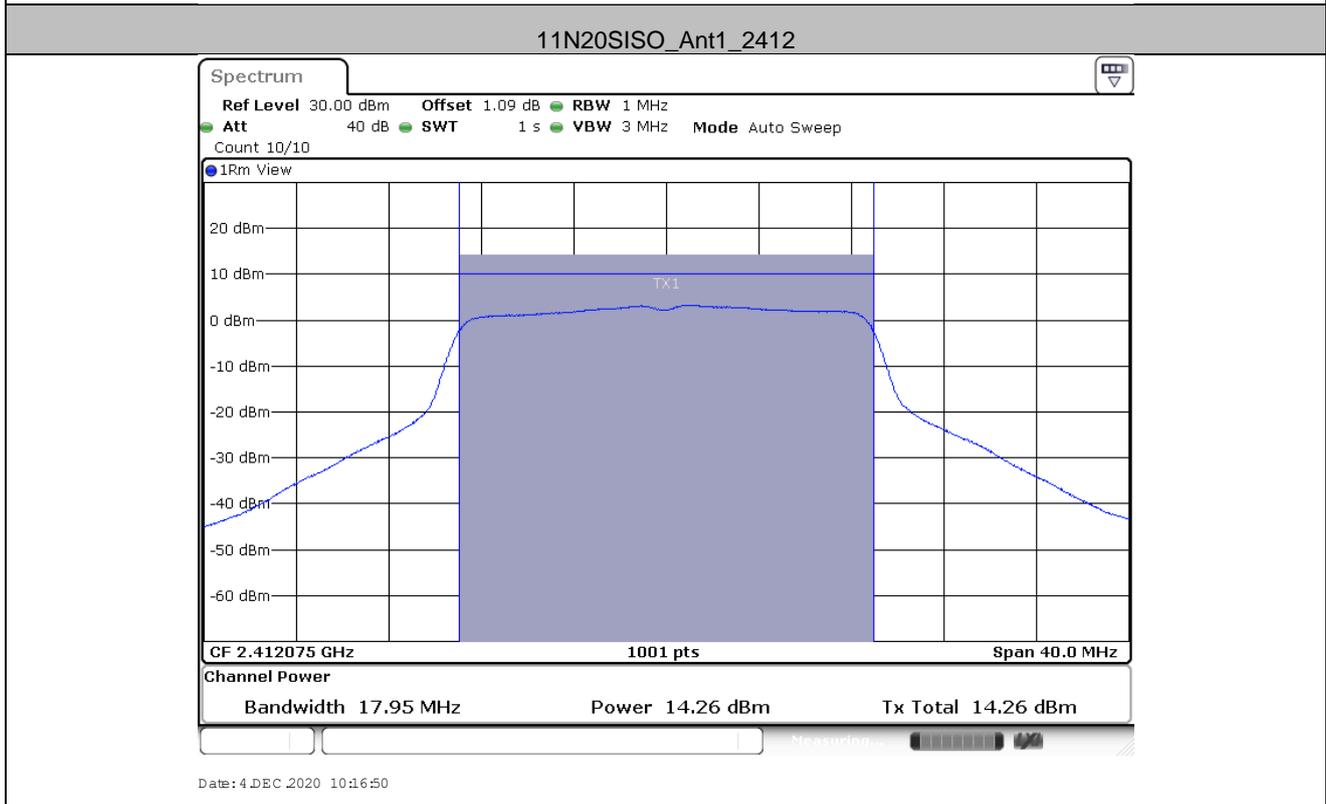
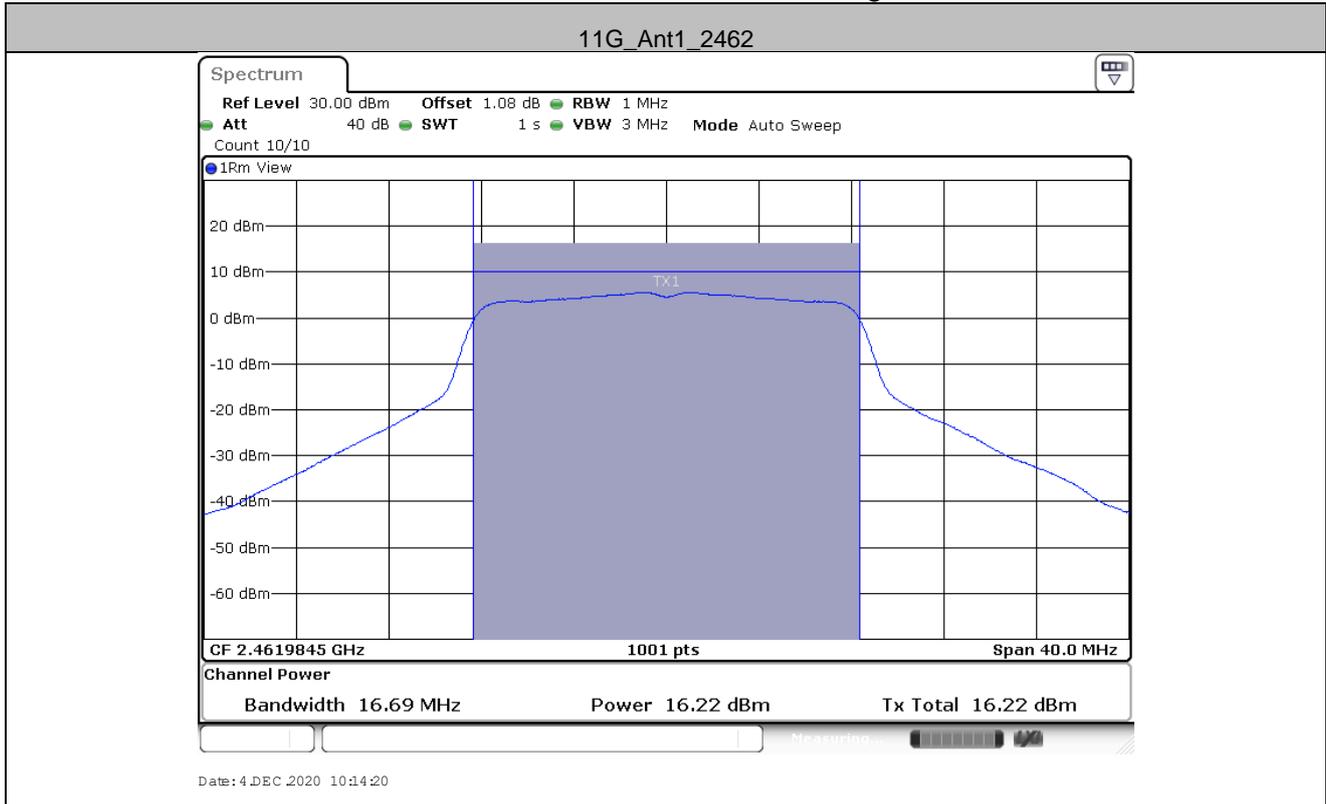


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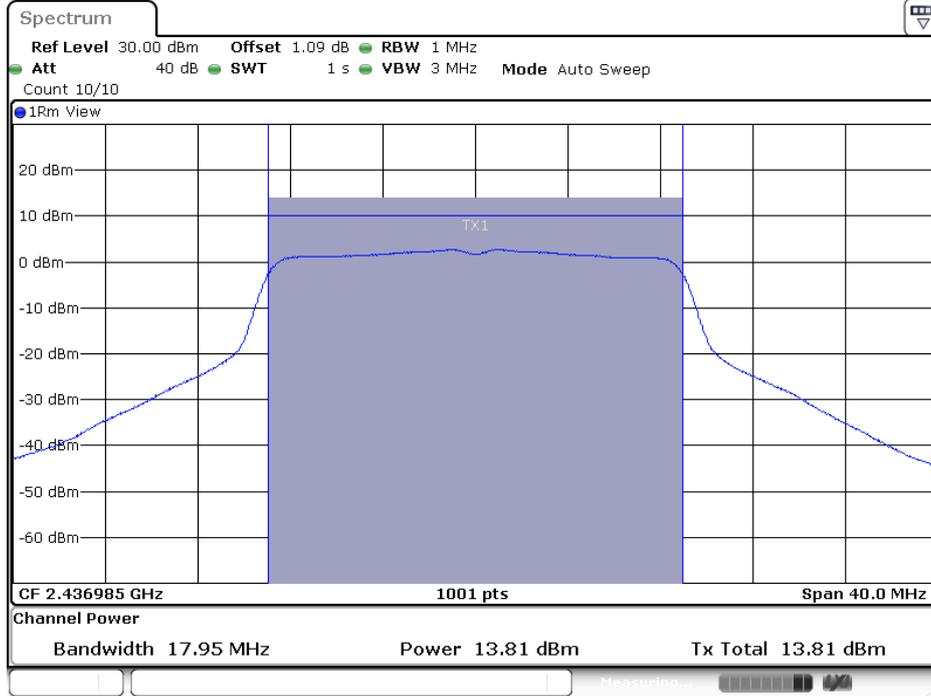
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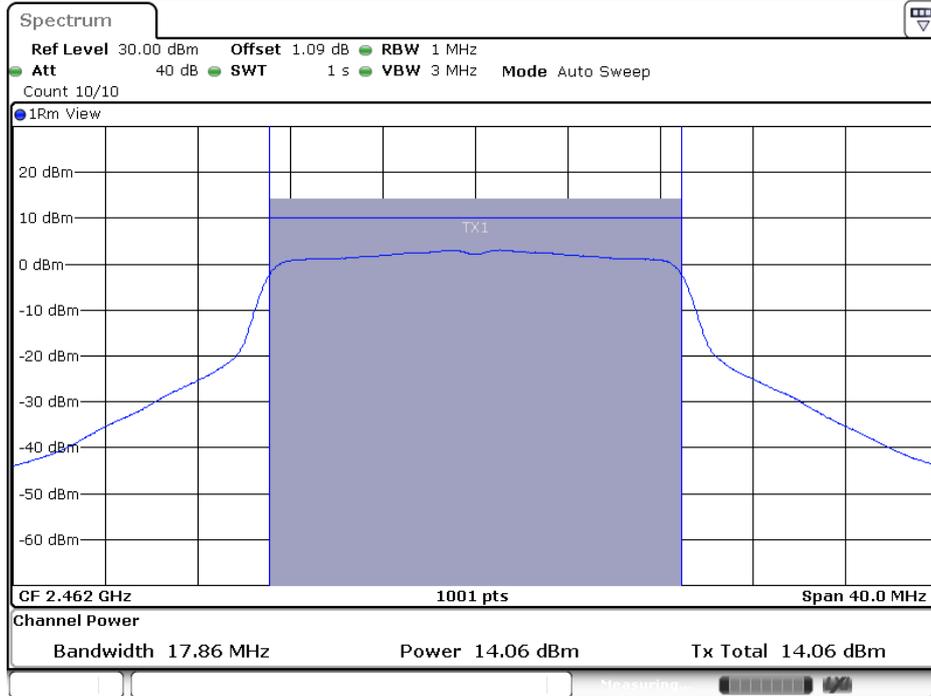


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### 11N20SISO\_Ant1\_2437



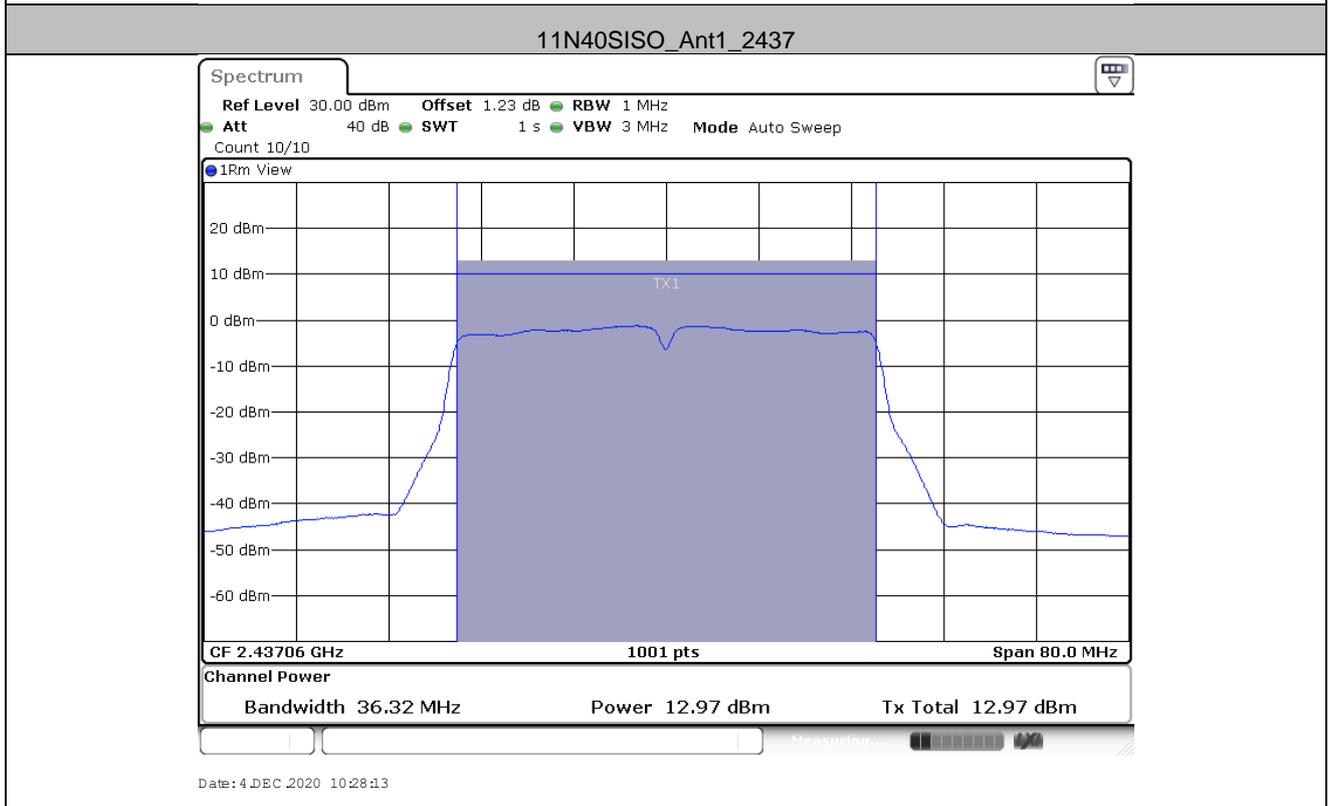
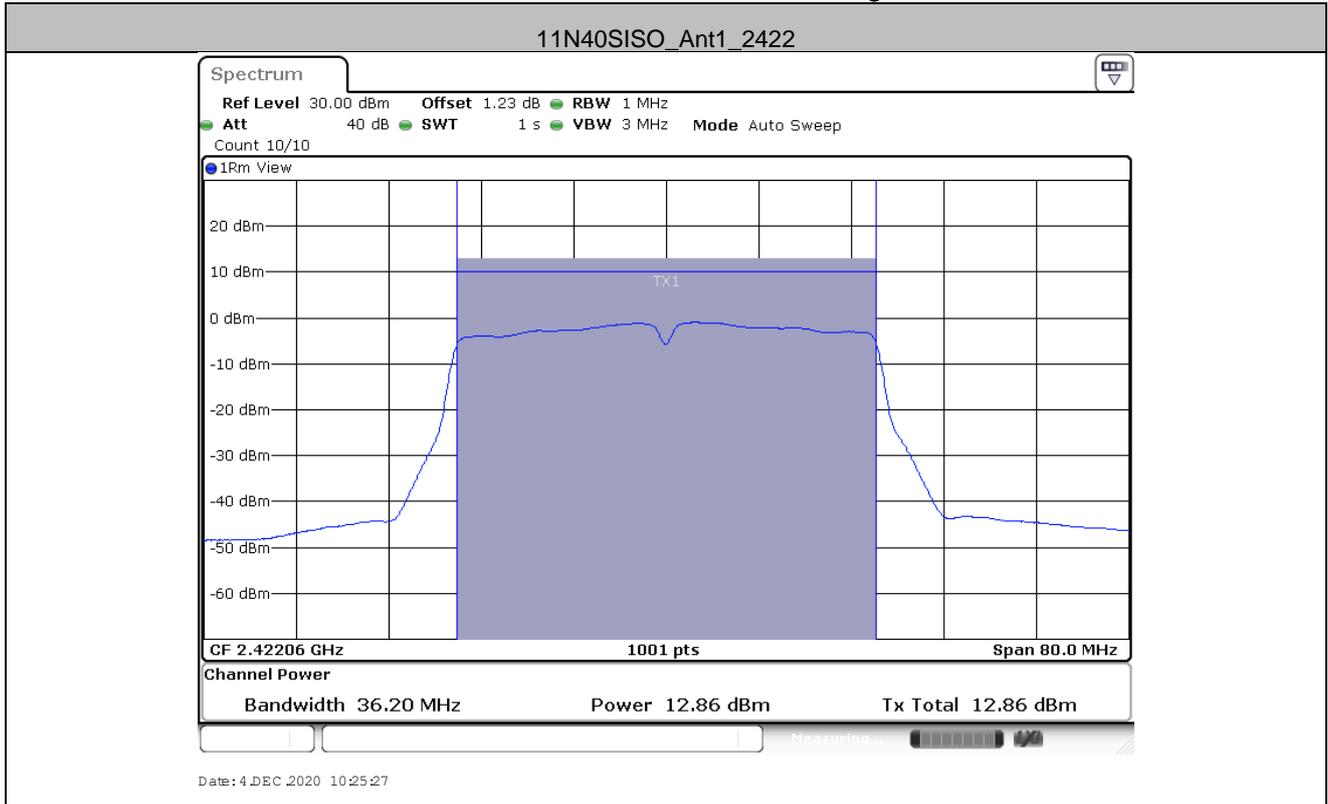
### 11N20SISO\_Ant1\_2462



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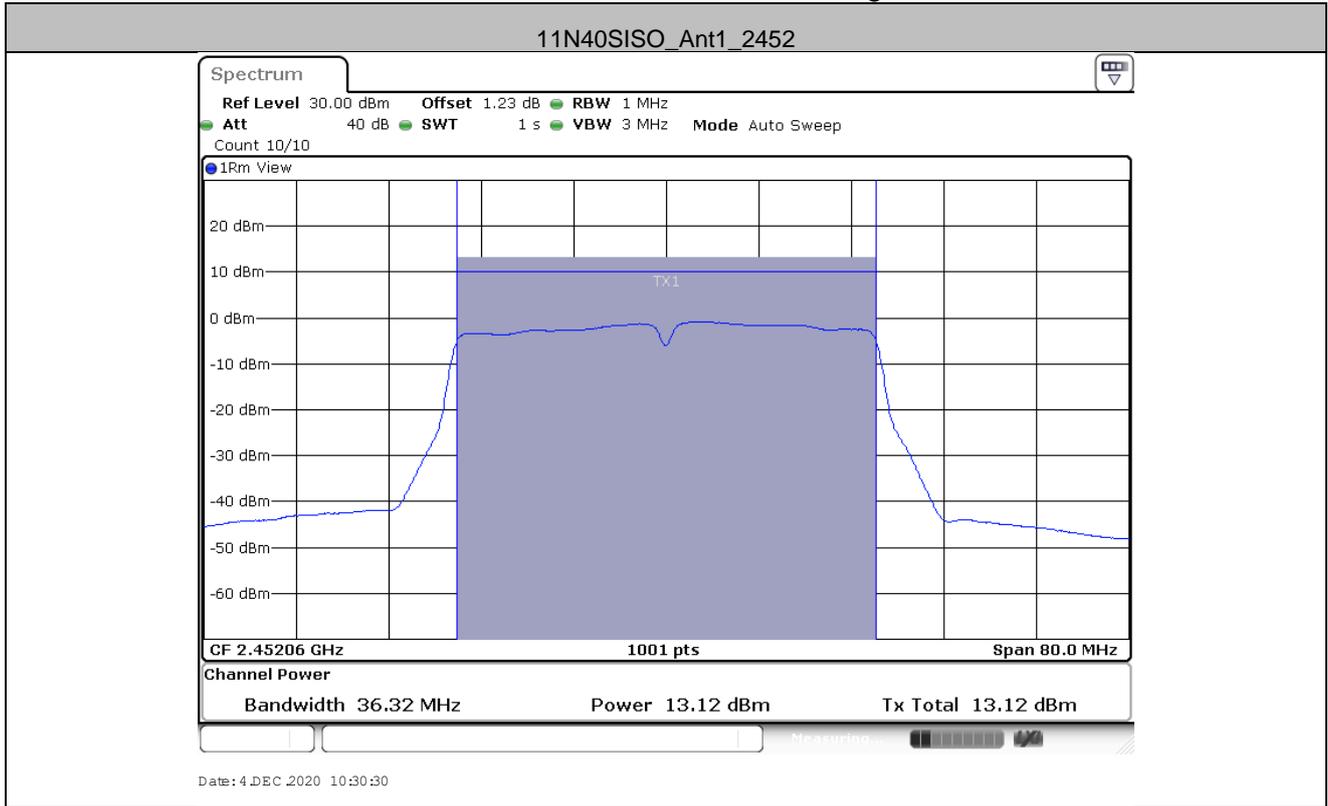
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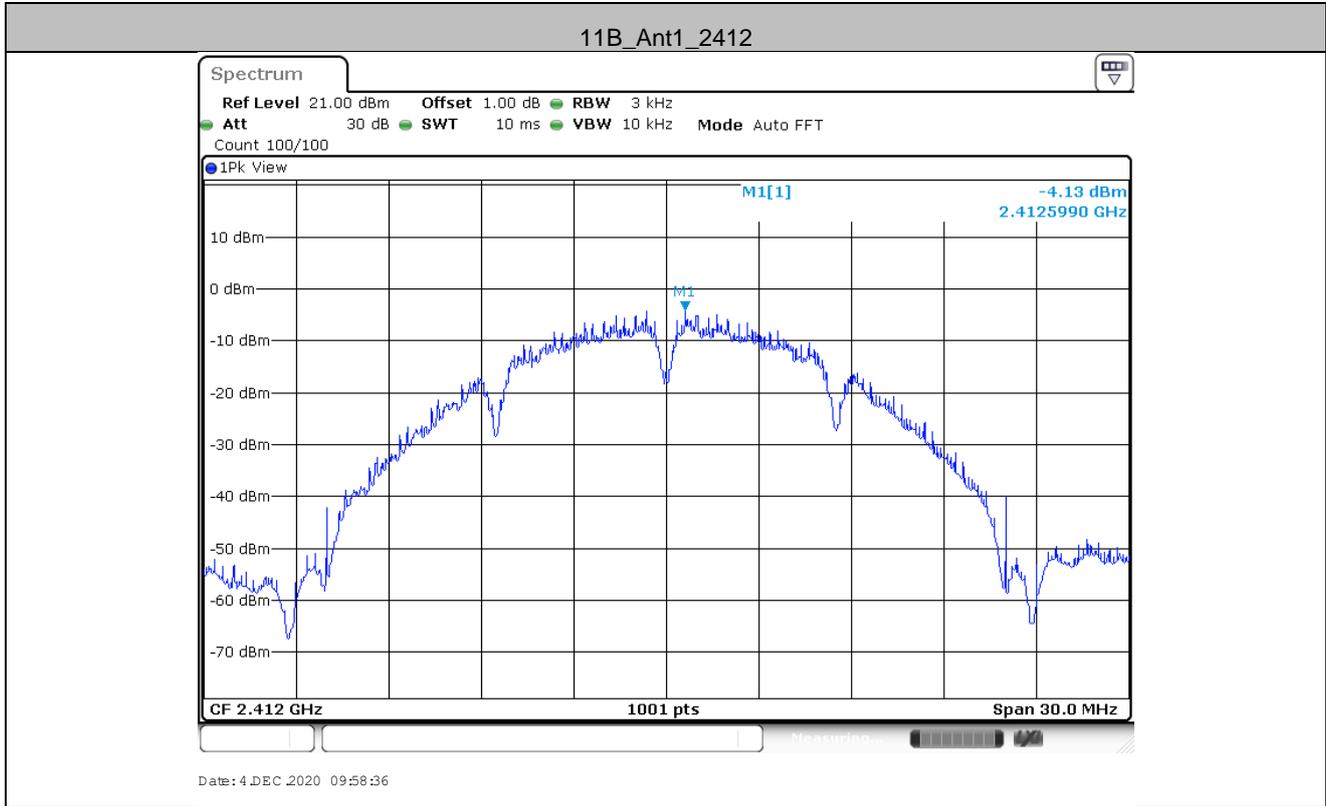
**Maximum power spectral density**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.13	<=8	PASS
		2437	-4.84	<=8	PASS
		2462	-4.62	<=8	PASS
11G	Ant1	2412	-8.85	<=8	PASS
		2437	-9.87	<=8	PASS
		2462	-9.11	<=8	PASS
11N20SISO	Ant1	2412	-11.14	<=8	PASS
		2437	-11.31	<=8	PASS
		2462	-9.72	<=8	PASS
11N40SISO	Ant1	2422	3.99	<=8	PASS
		2437	3.56	<=8	PASS
		2452	4.09	<=8	PASS



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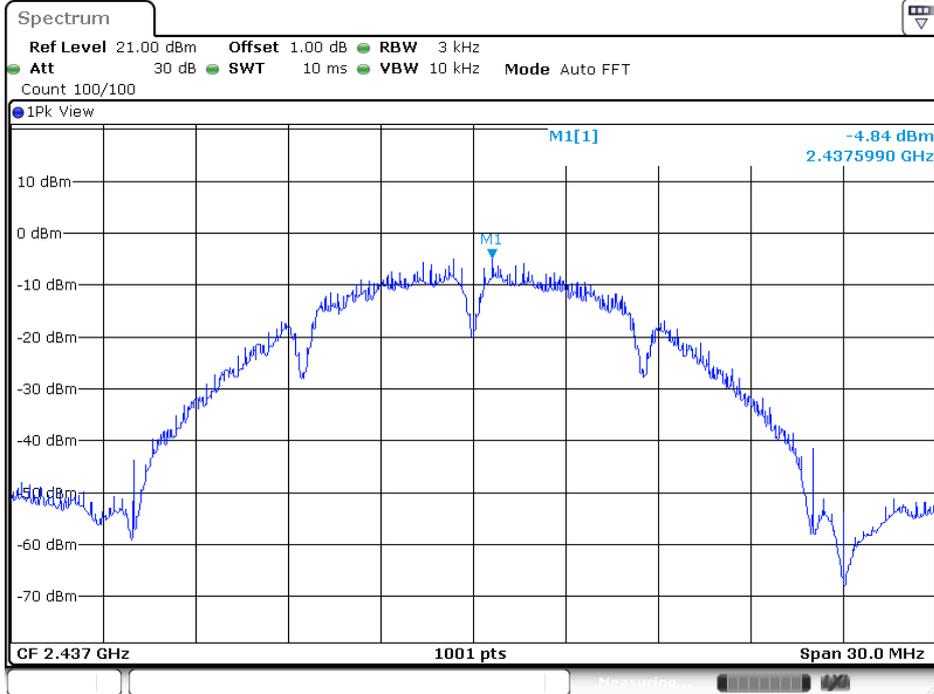
### Test Graphs



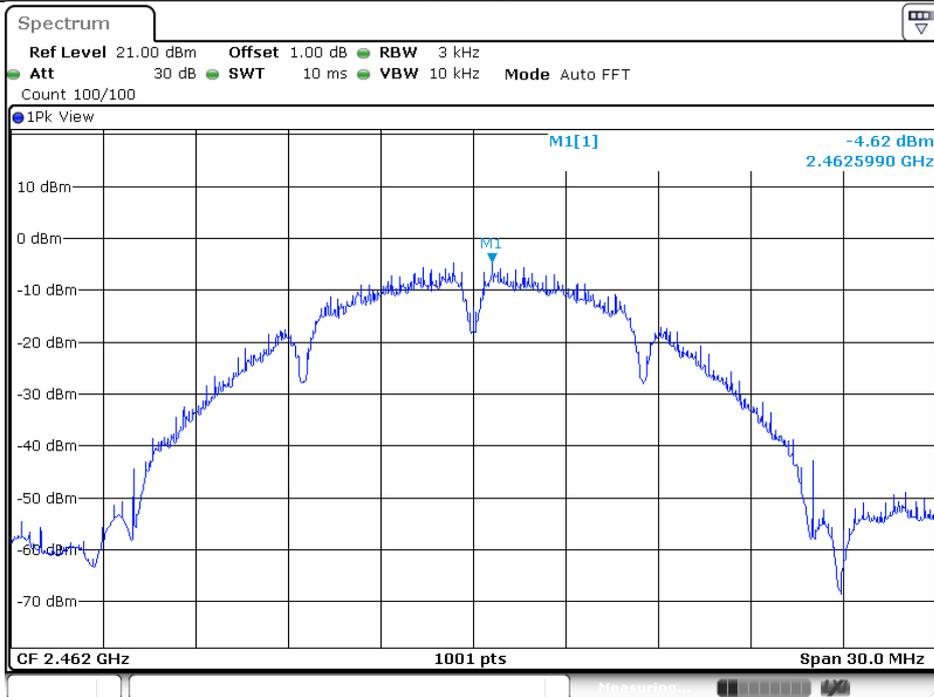
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### 11B\_Ant1\_2437

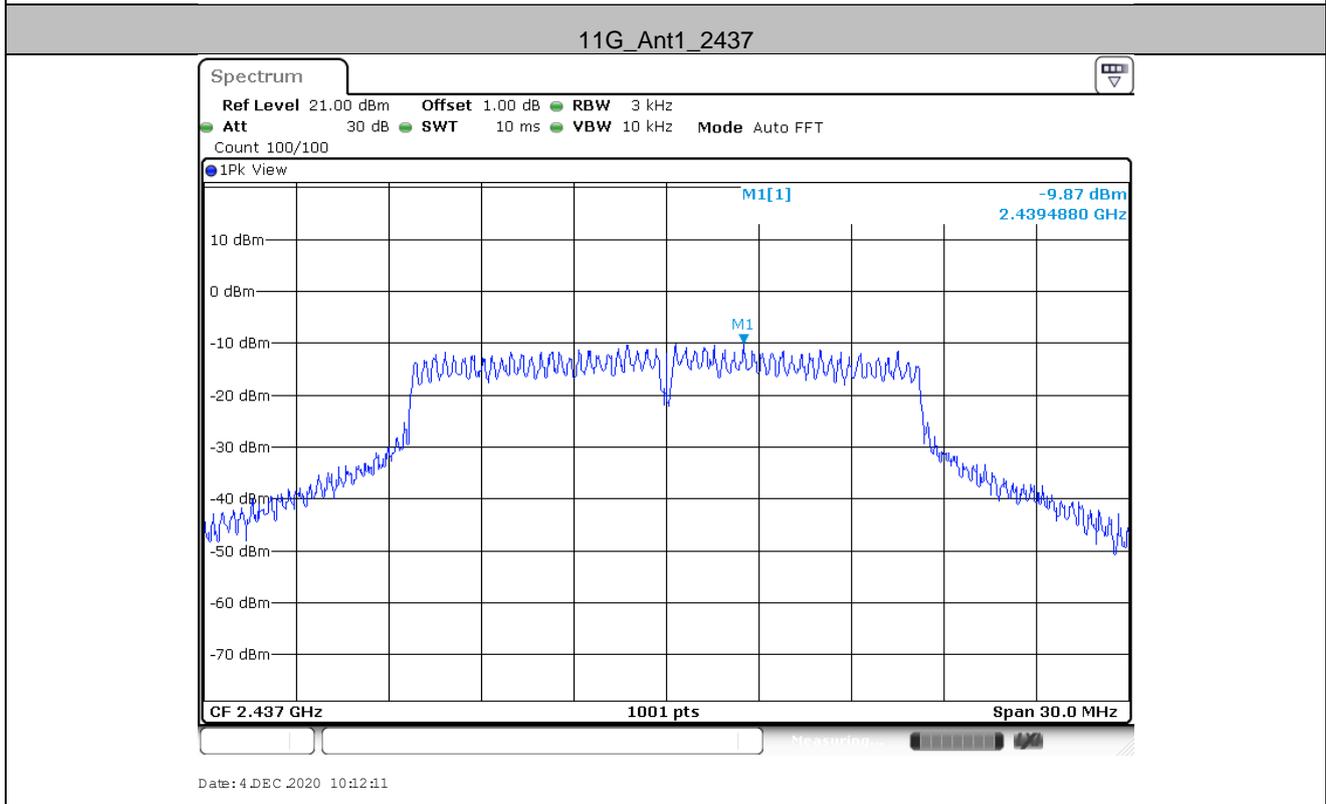
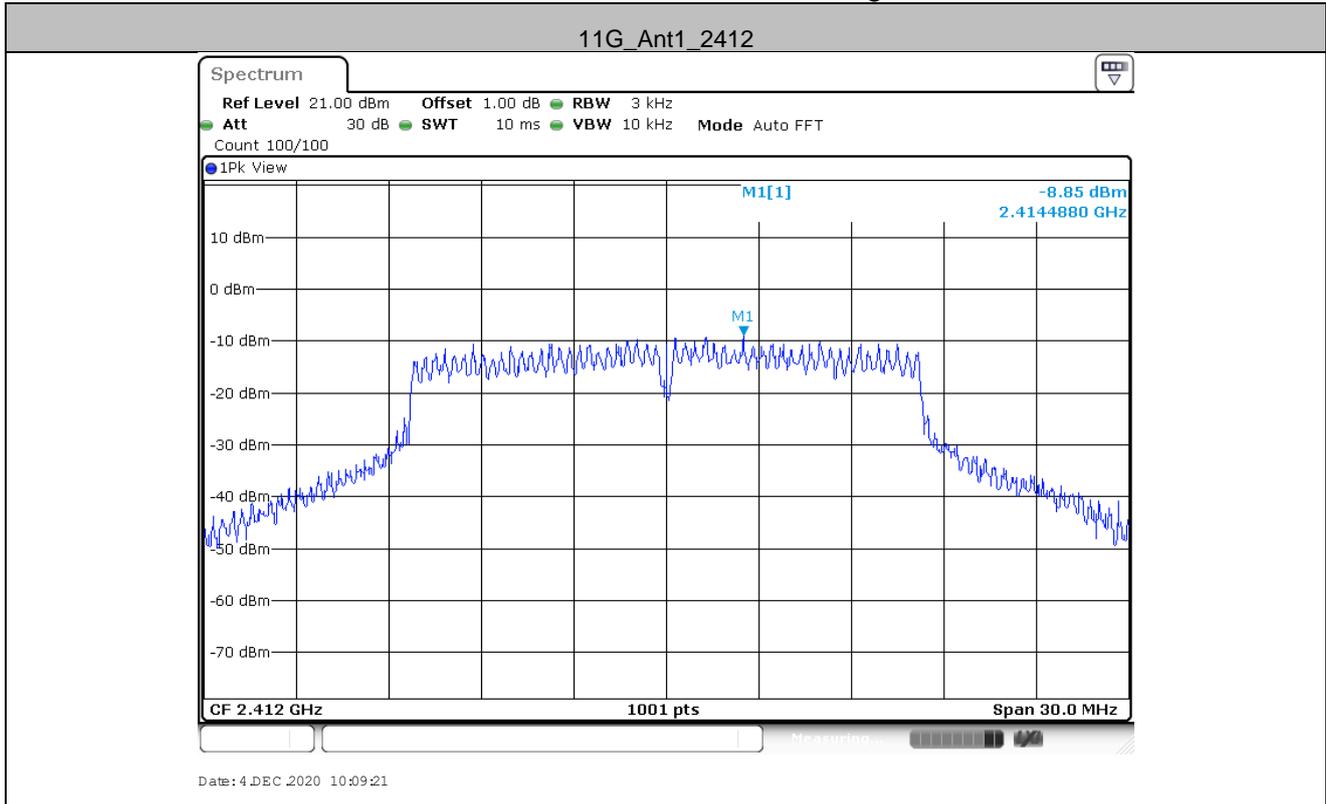


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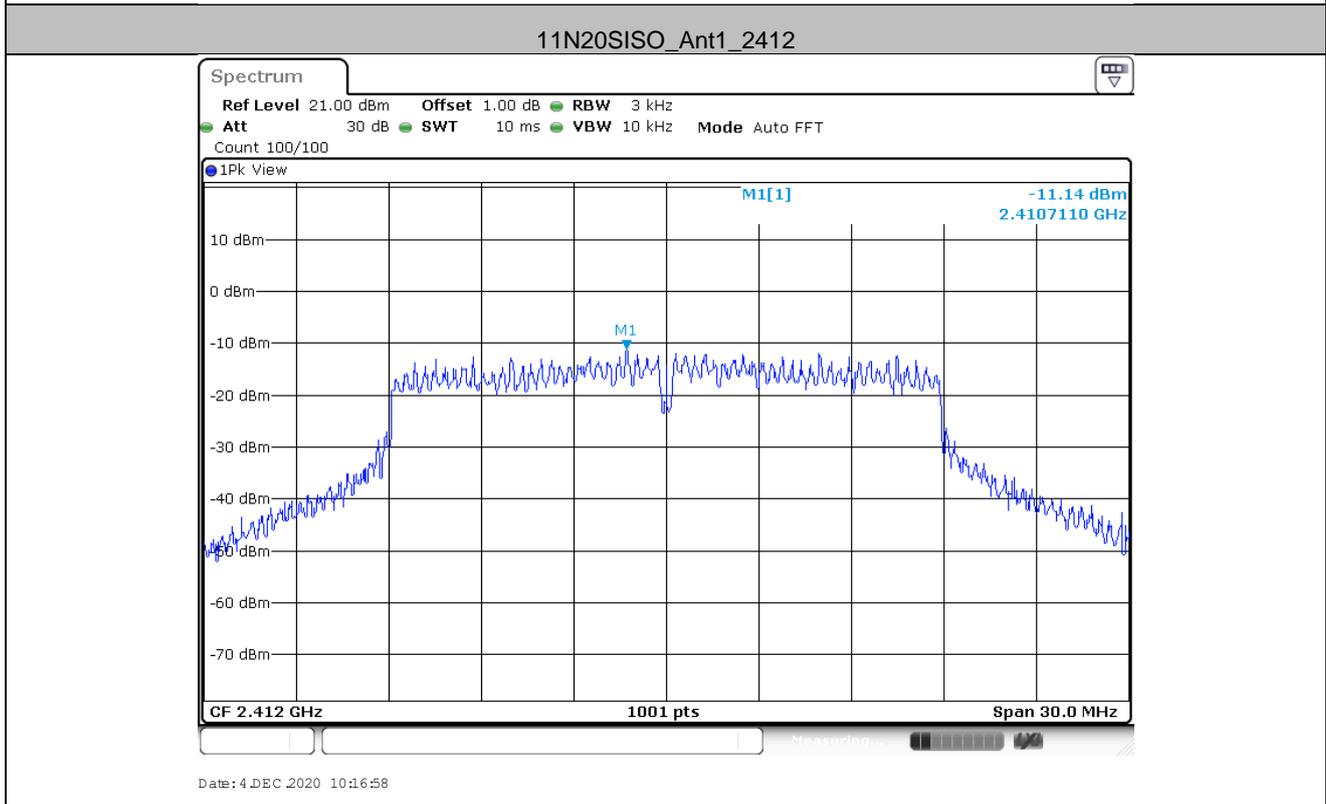
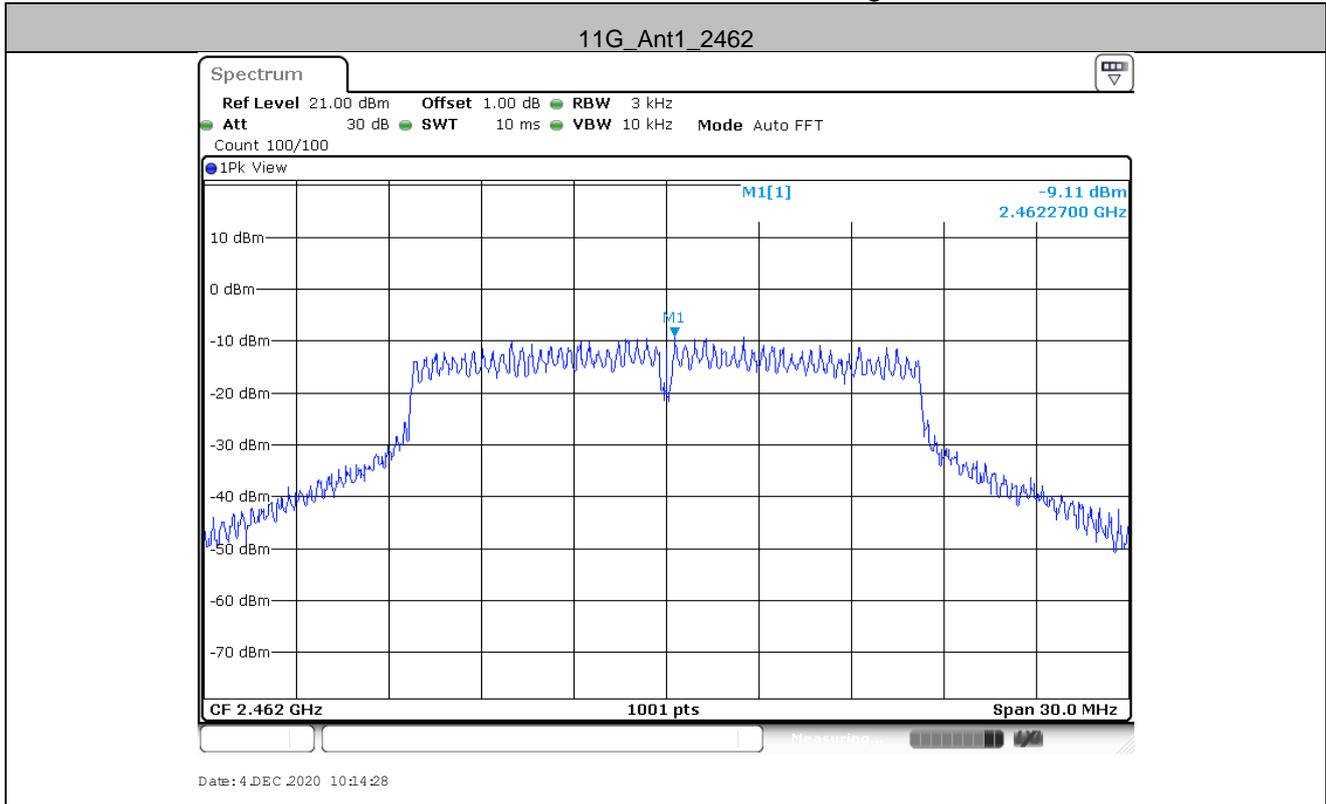
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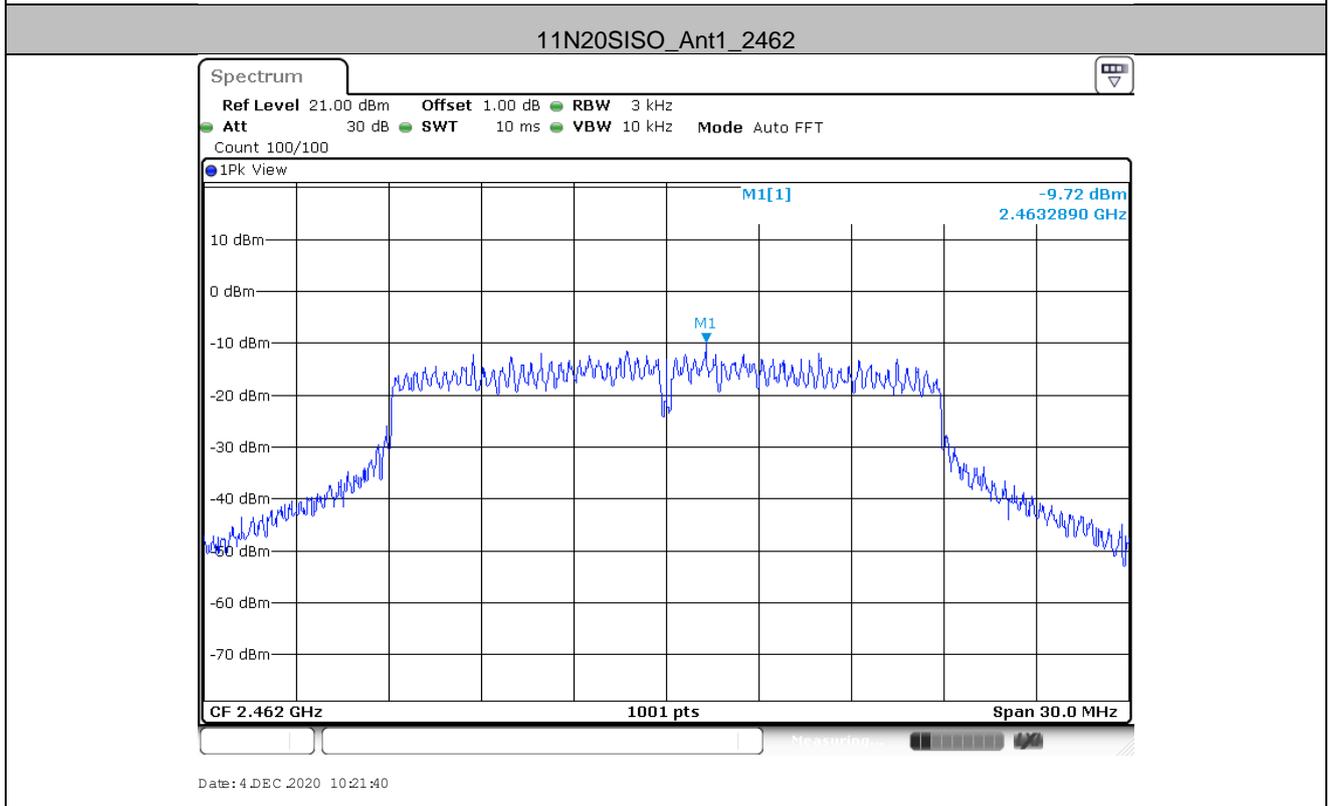
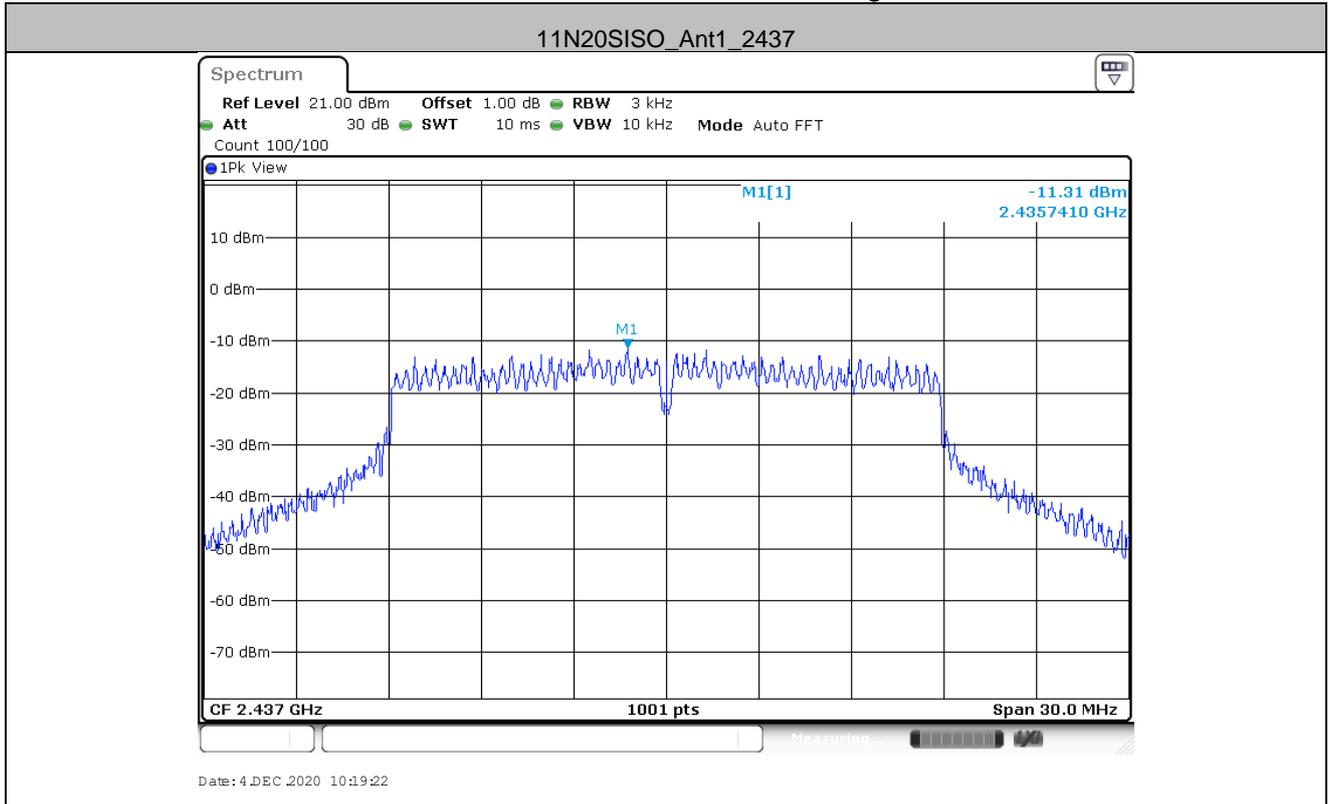
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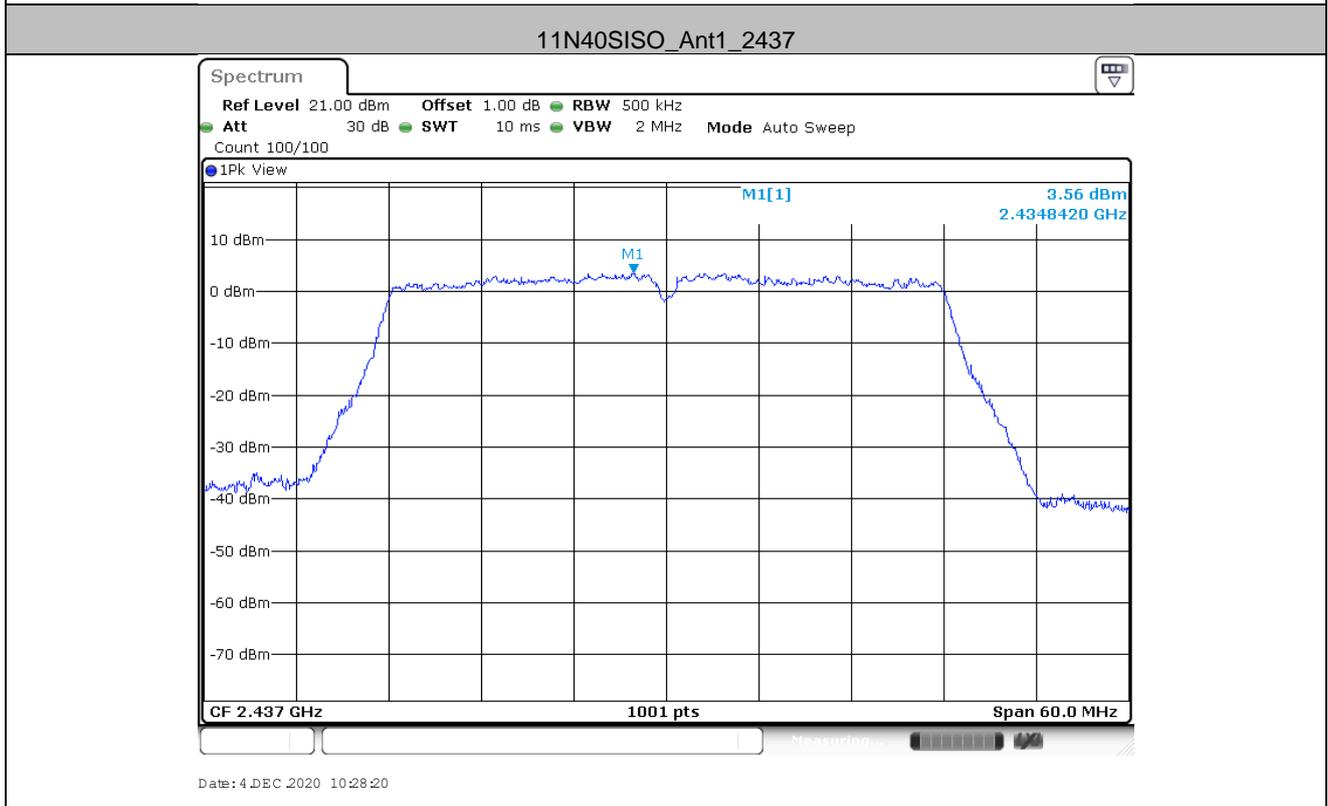
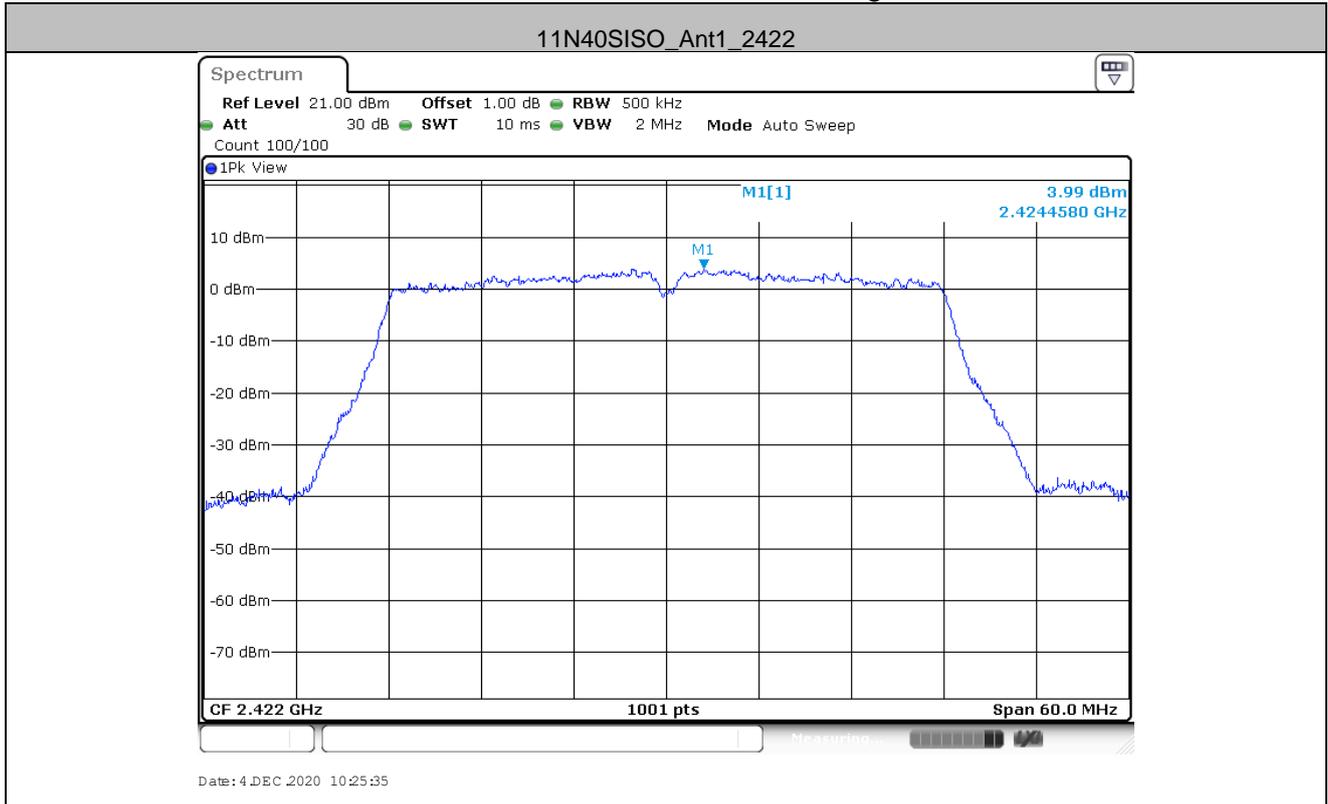
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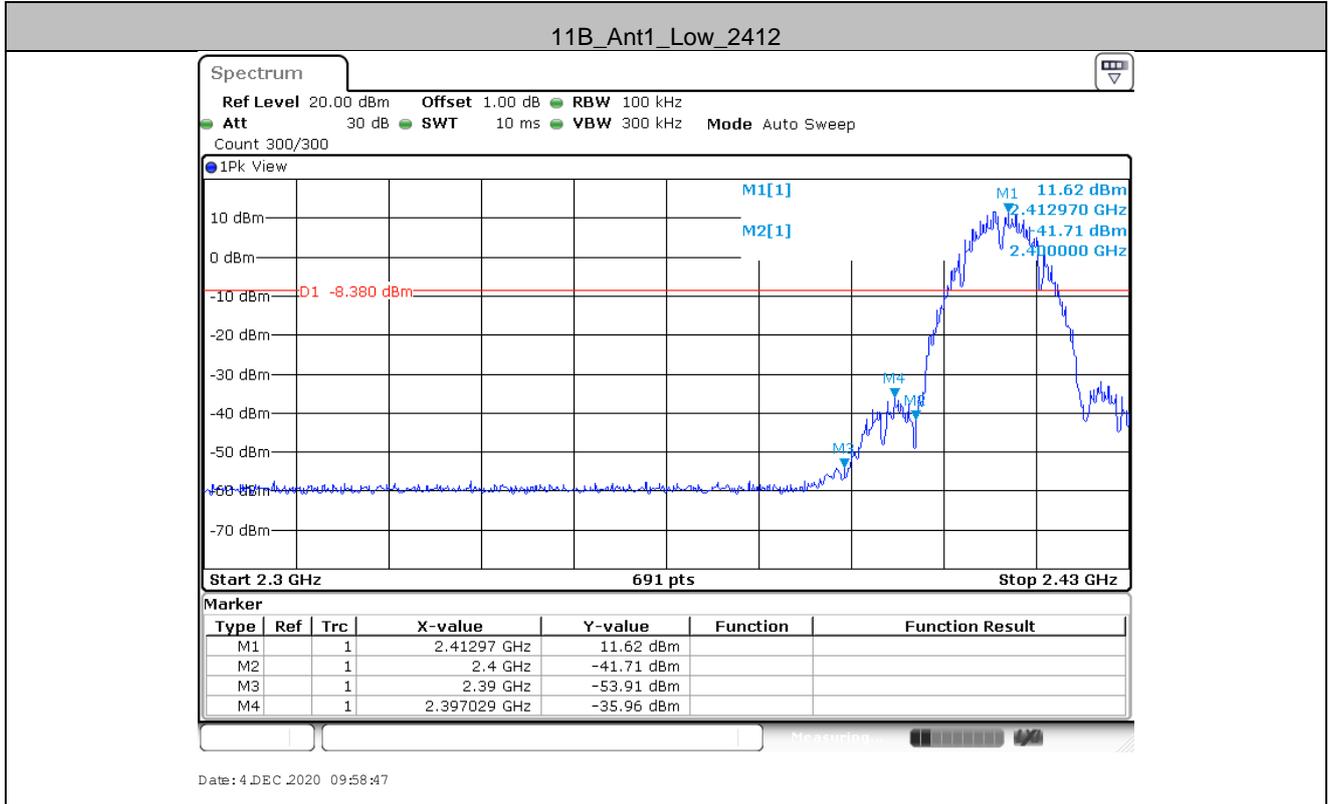
**Band edge measurements**  
**Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.62	-35.96	<=-8.38	PASS
		High	2462	11.36	-48.9	<=-8.64	PASS
11G	Ant1	Low	2412	6.75	-25.03	<=-13.25	PASS
		High	2462	6.38	-46.9	<=-13.62	PASS
11N20SISO	Ant1	Low	2412	4.62	-26.66	<=-15.38	PASS
		High	2462	4.52	-48.32	<=-15.48	PASS
11N40SISO	Ant1	Low	2422	-0.18	-39.45	<=-20.18	PASS
		High	2452	-0.15	-47.17	<=-20.15	PASS



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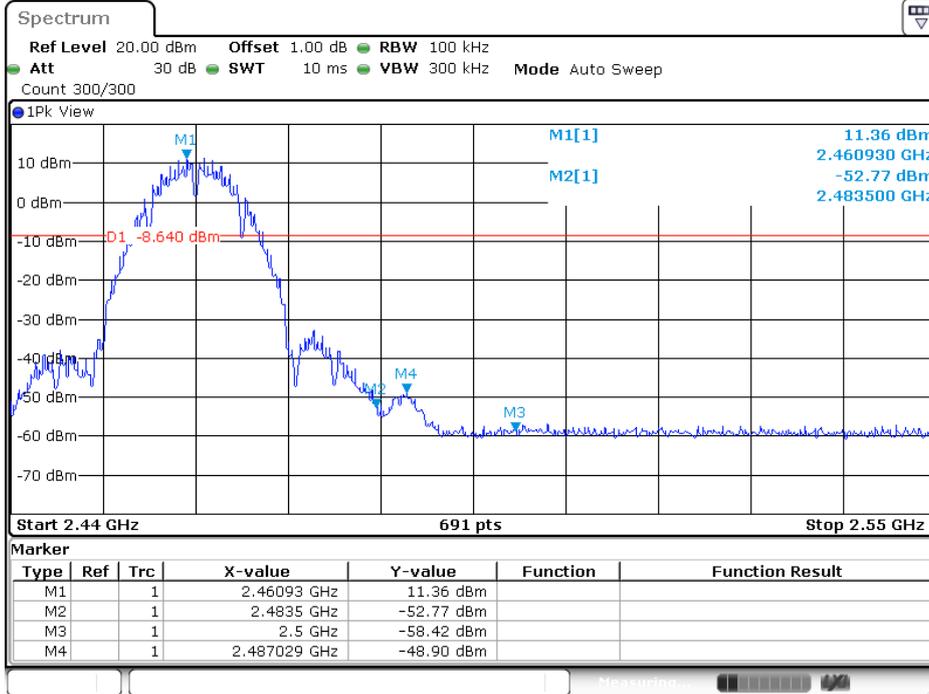
### Test Graphs



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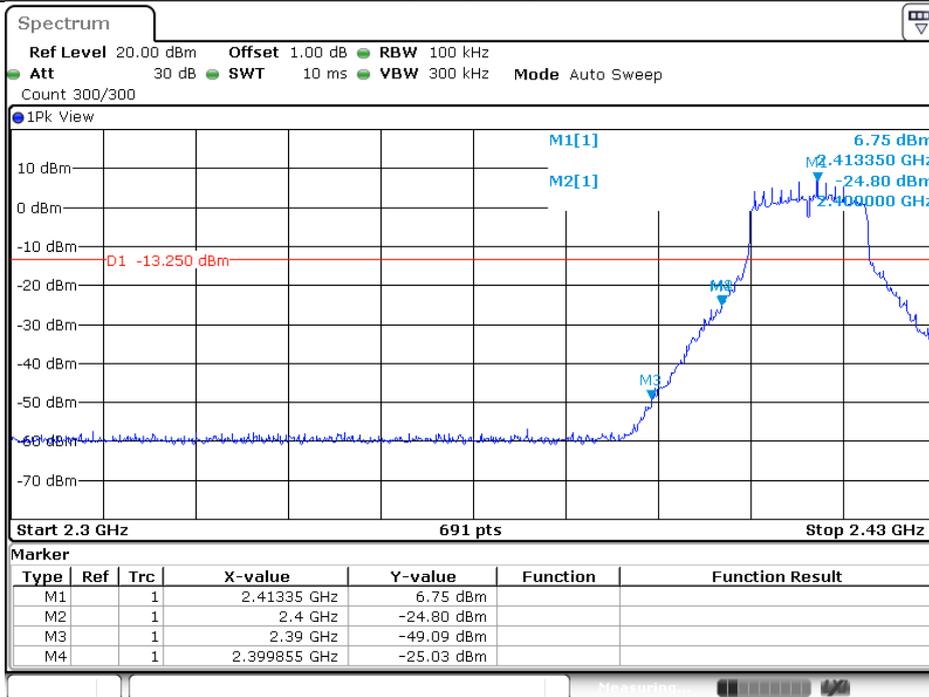
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### 11B\_Ant1\_High\_2462



Date: 4 DEC 2020 10:07:06

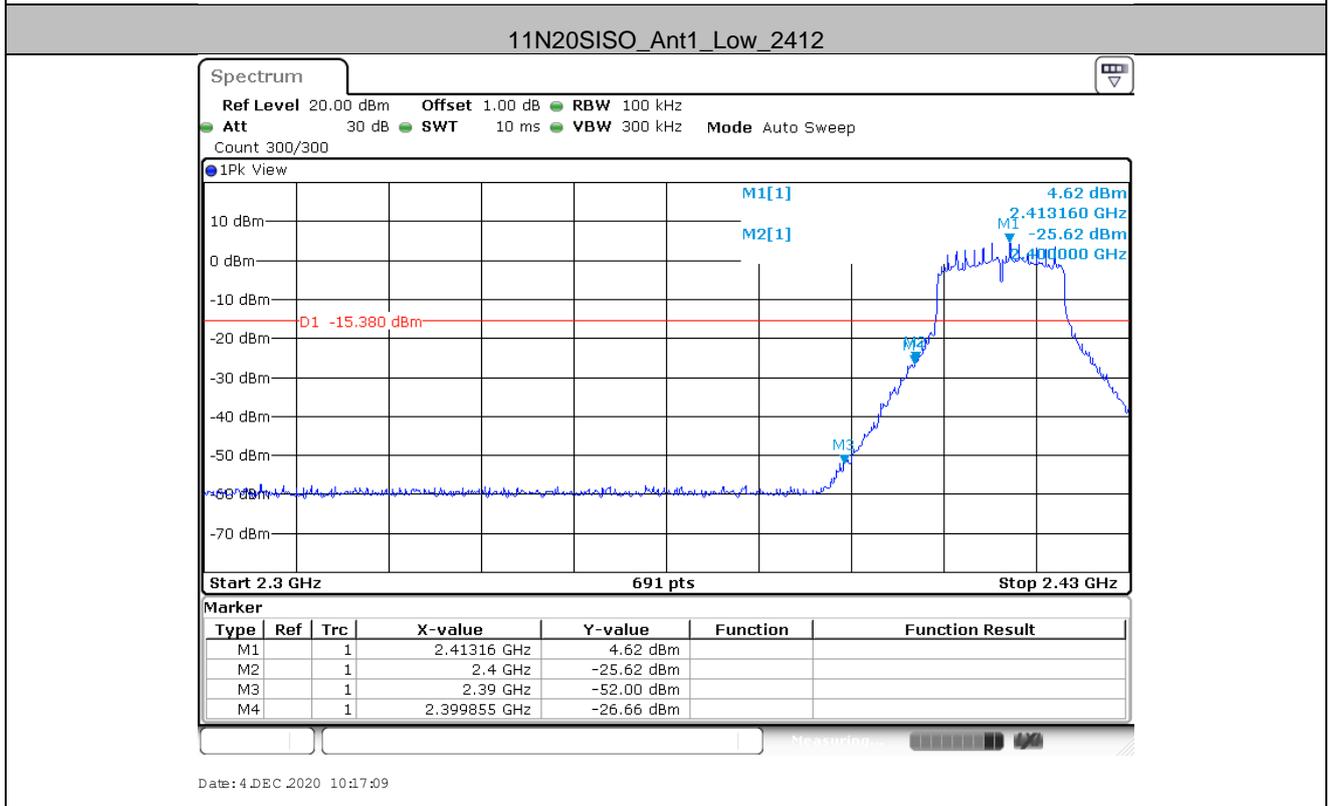
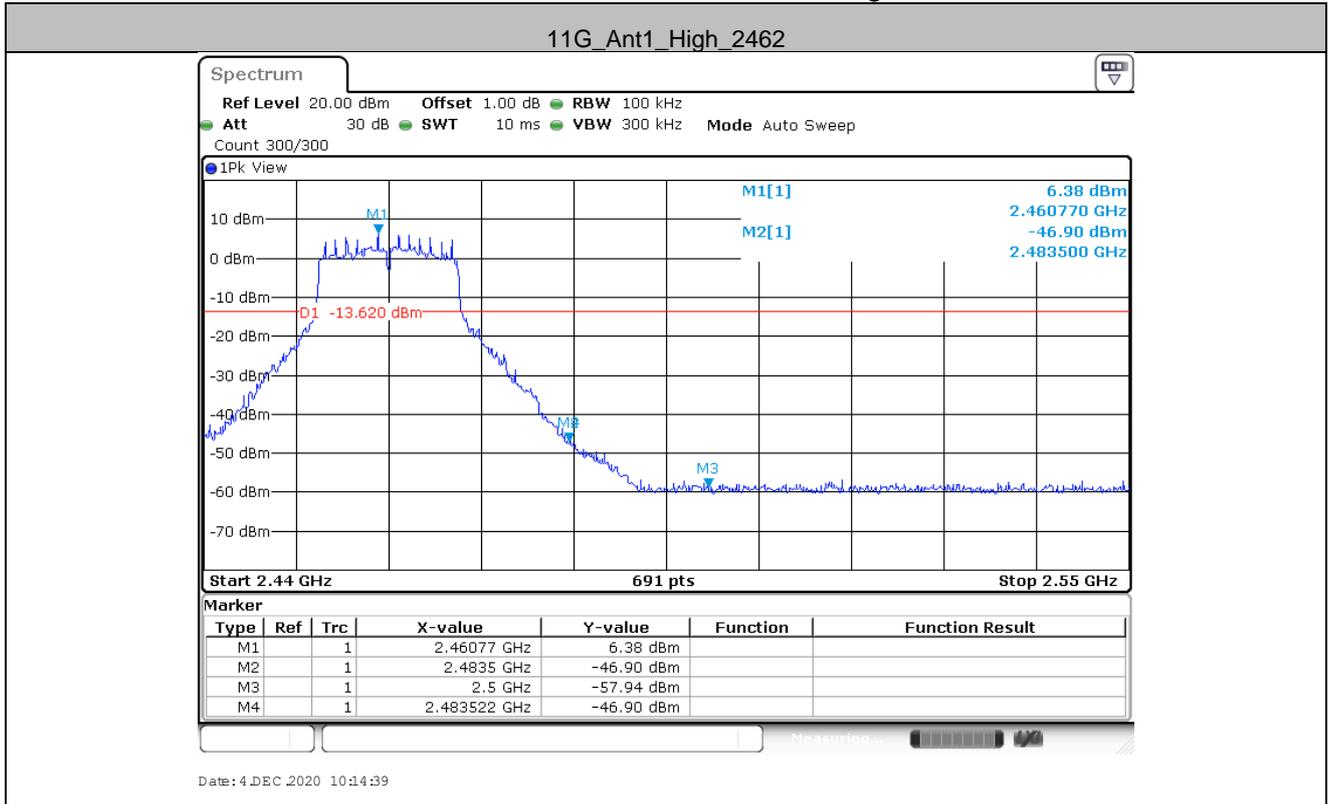
### 11G\_Ant1\_Low\_2412



Date: 4 DEC 2020 10:09:32



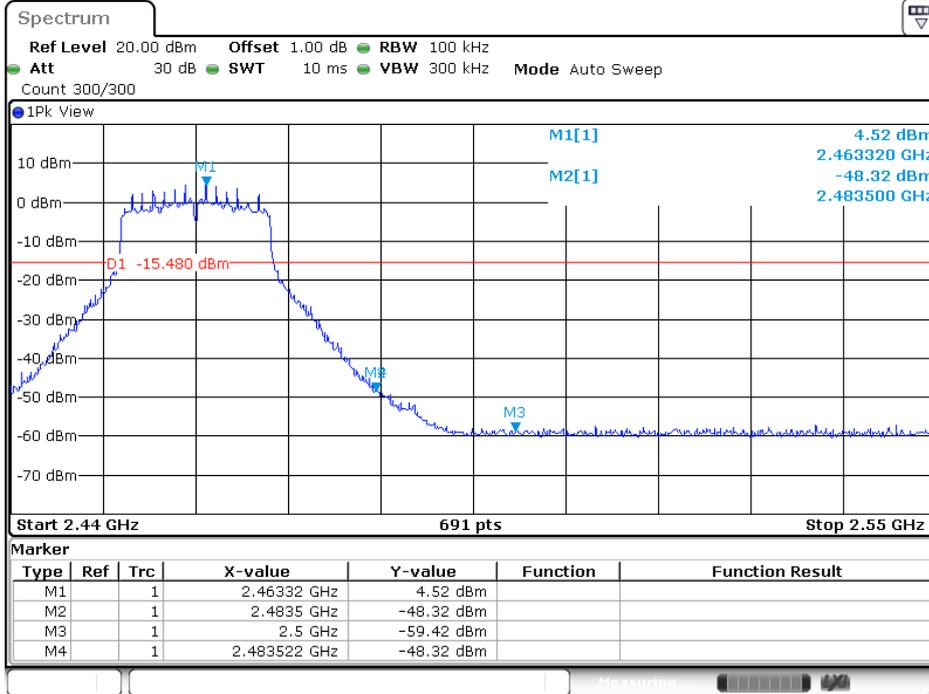
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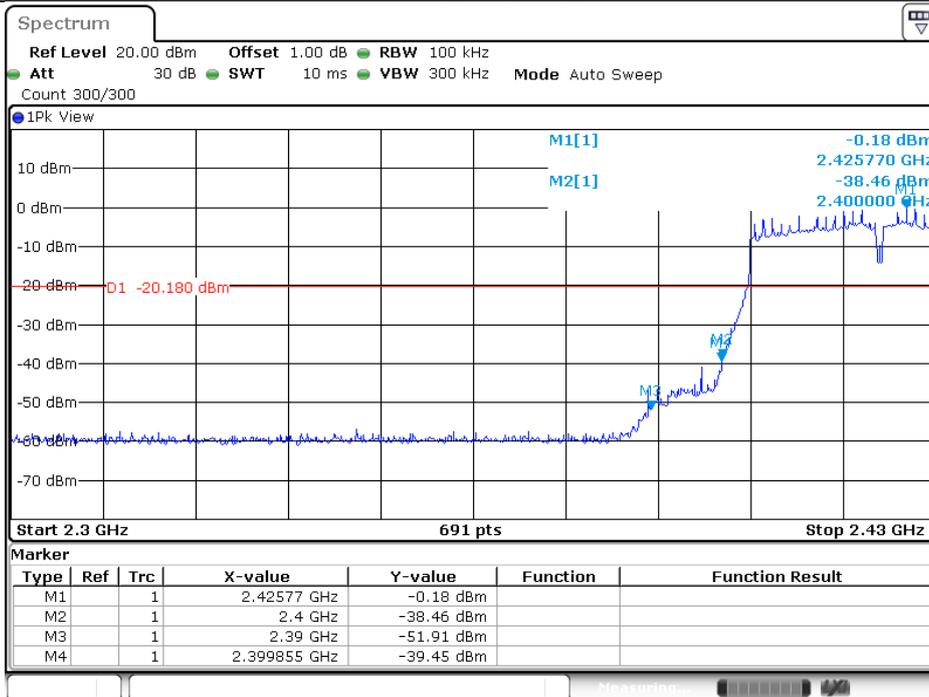
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### 11N20SISO\_Ant1\_High\_2462



Date: 4 DEC 2020 10:21:51

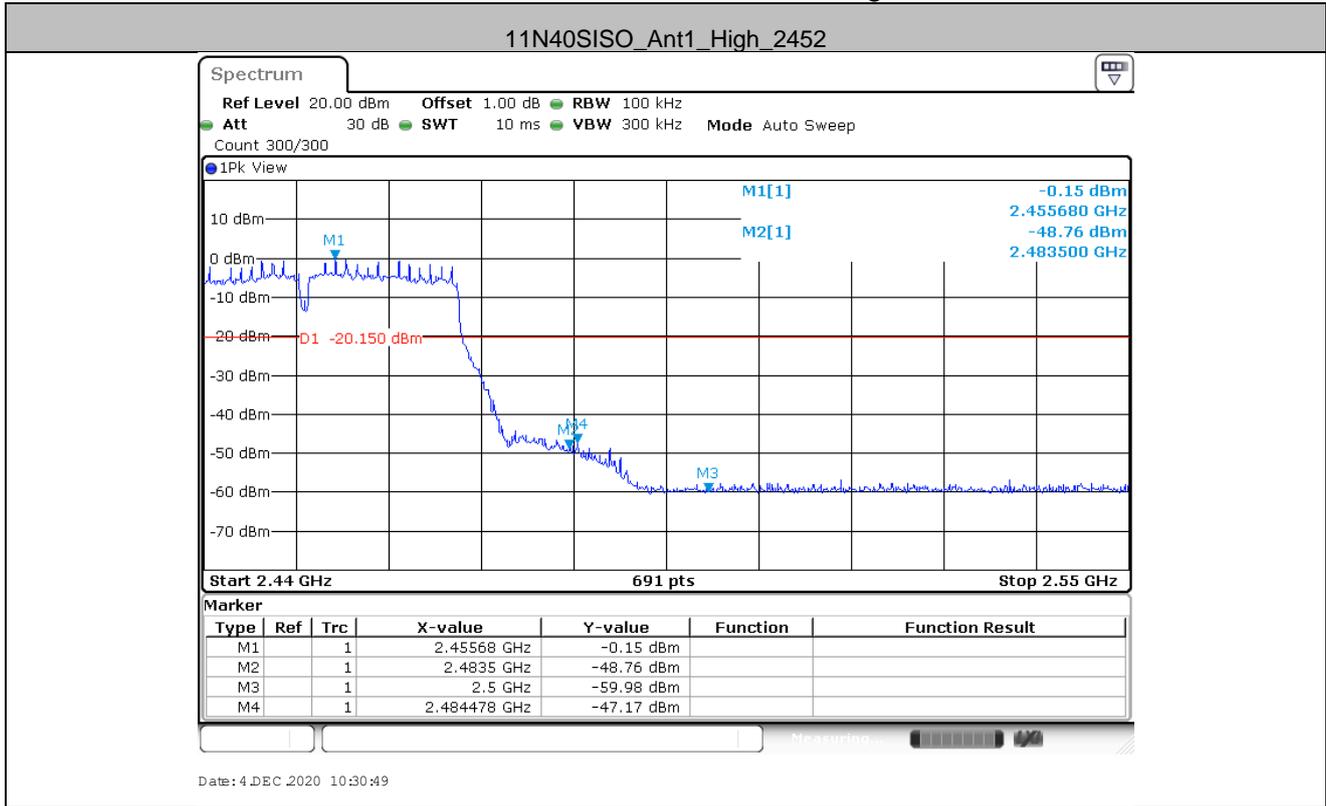
### 11N40SISO\_Ant1\_Low\_2422



Date: 4 DEC 2020 10:25:46



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**Conducted Spurious Emission**  
**Test Result**

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	11.65	11.65	---	PASS
			30~1000	11.65	-46.13	<=-8.35	PASS
			1000~26500	11.65	-30.81	<=-8.35	PASS
		2437	Reference	10.89	10.89	---	PASS
			30~1000	10.89	-45.44	<=-9.11	PASS
			1000~26500	10.89	-30.48	<=-9.11	PASS
		2462	Reference	11.38	11.38	---	PASS
			30~1000	11.38	-45.68	<=-8.62	PASS
			1000~26500	11.38	-30.69	<=-8.62	PASS
11G	Ant1	2412	Reference	6.59	6.59	---	PASS
			30~1000	6.59	-45.55	<=-13.41	PASS
			1000~26500	6.59	-30.33	<=-13.41	PASS
		2437	Reference	6.14	6.14	---	PASS
			30~1000	6.14	-46.23	<=-13.86	PASS
			1000~26500	6.14	-30.89	<=-13.86	PASS
		2462	Reference	6.62	6.62	---	PASS
			30~1000	6.62	-45.27	<=-13.38	PASS
			1000~26500	6.62	-31.22	<=-13.38	PASS
11N20SISO	Ant1	2412	Reference	4.75	4.75	---	PASS
			30~1000	4.75	-45.12	<=-15.25	PASS
			1000~26500	4.75	-30.46	<=-15.25	PASS
		2437	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-46.14	<=-15.81	PASS
			1000~26500	4.19	-30.77	<=-15.81	PASS
		2462	Reference	4.47	4.47	---	PASS
			30~1000	4.47	-45.73	<=-15.53	PASS
			1000~26500	4.47	-31.34	<=-15.53	PASS
11N40SISO	Ant1	2422	Reference	-0.09	-0.09	---	PASS



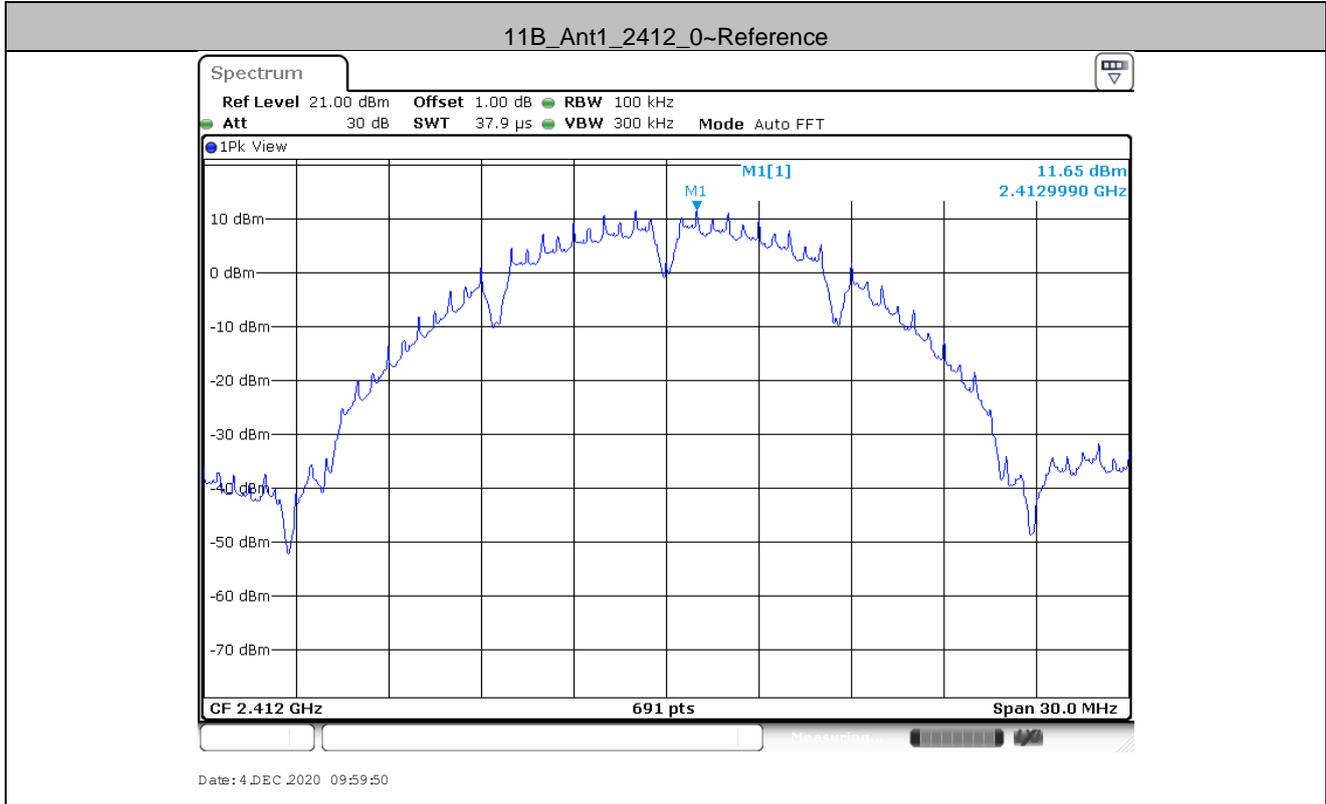
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			30~1000	-0.09	-45.37	<=-20.09	PASS
			1000~26500	-0.09	-31.08	<=-20.09	PASS
		2437	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-46.11	<=-20.62	PASS
			1000~26500	-0.62	-31.13	<=-20.62	PASS
		2452	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-45.74	<=-20.81	PASS
			1000~26500	-0.81	-30.1	<=-20.81	PASS



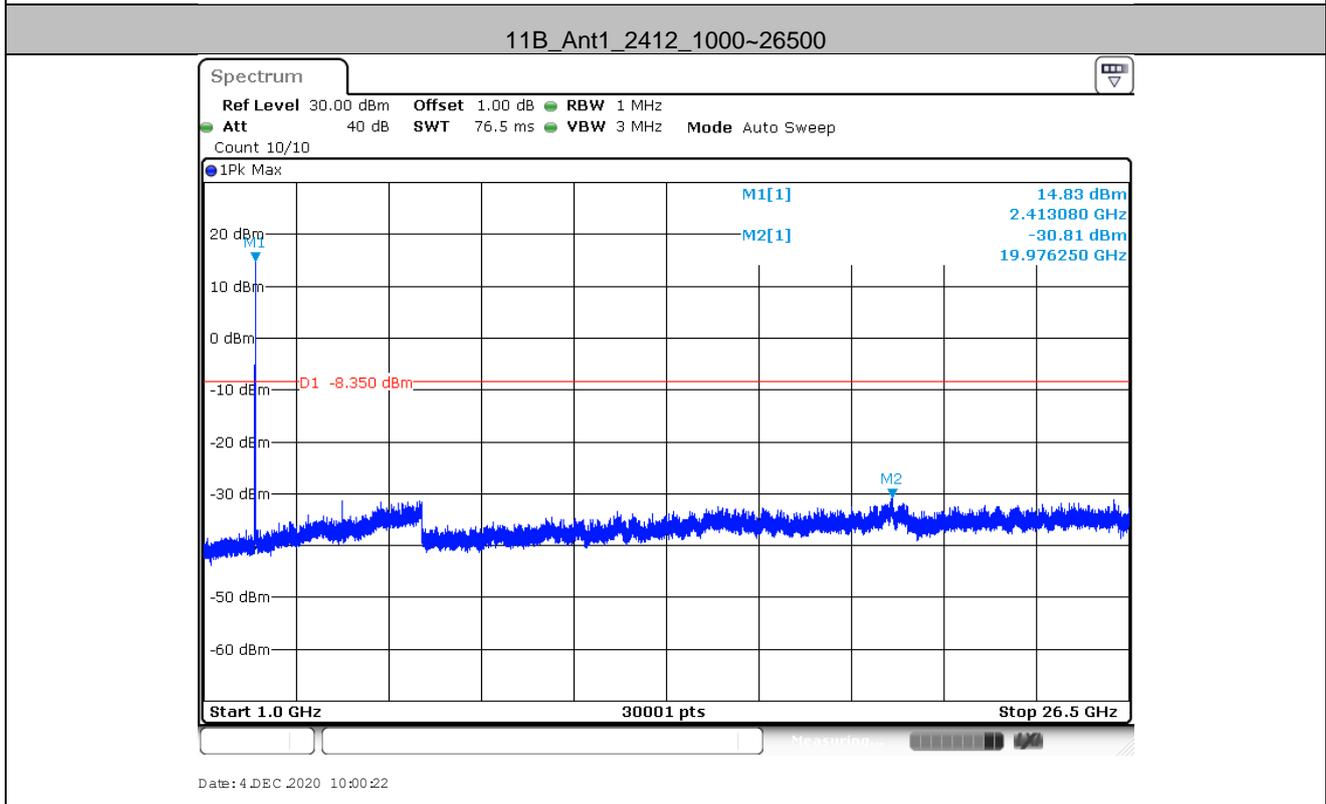
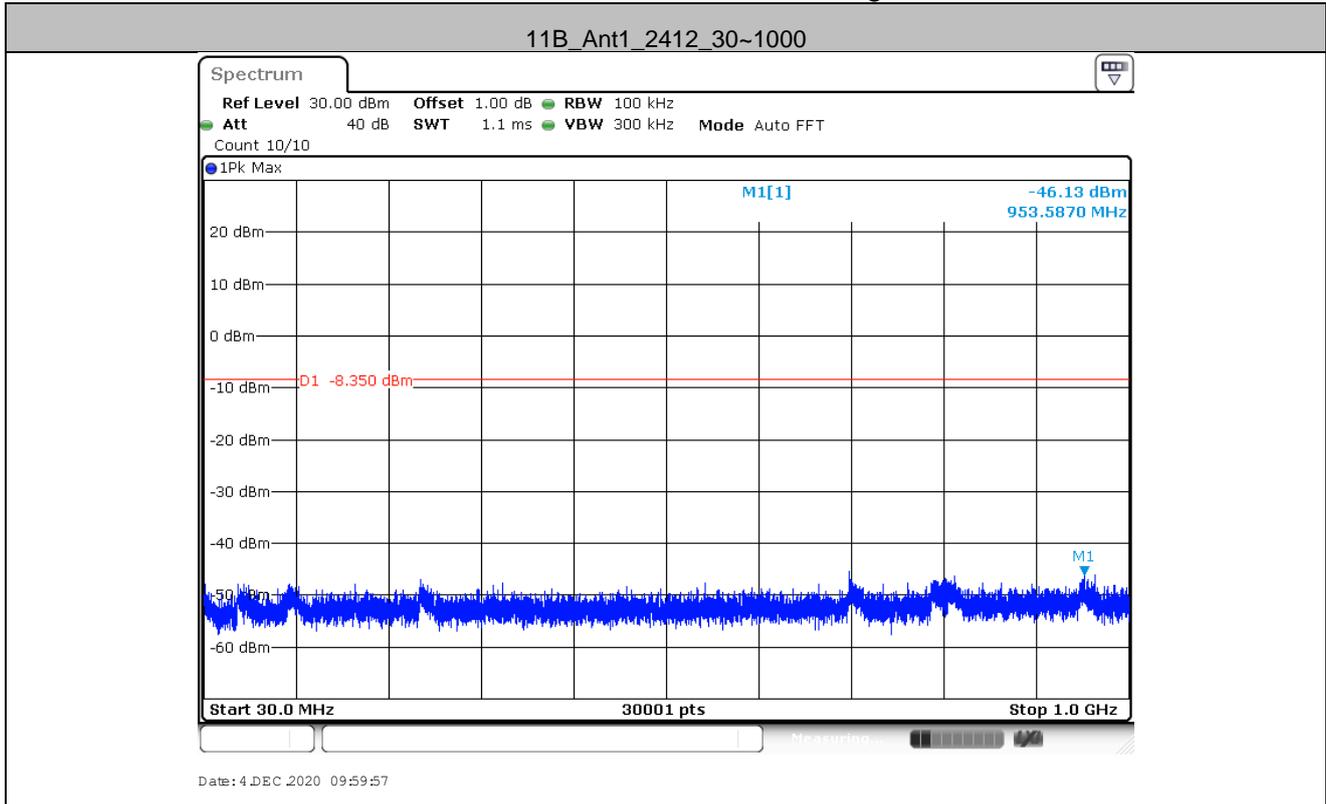
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### Test Graphs



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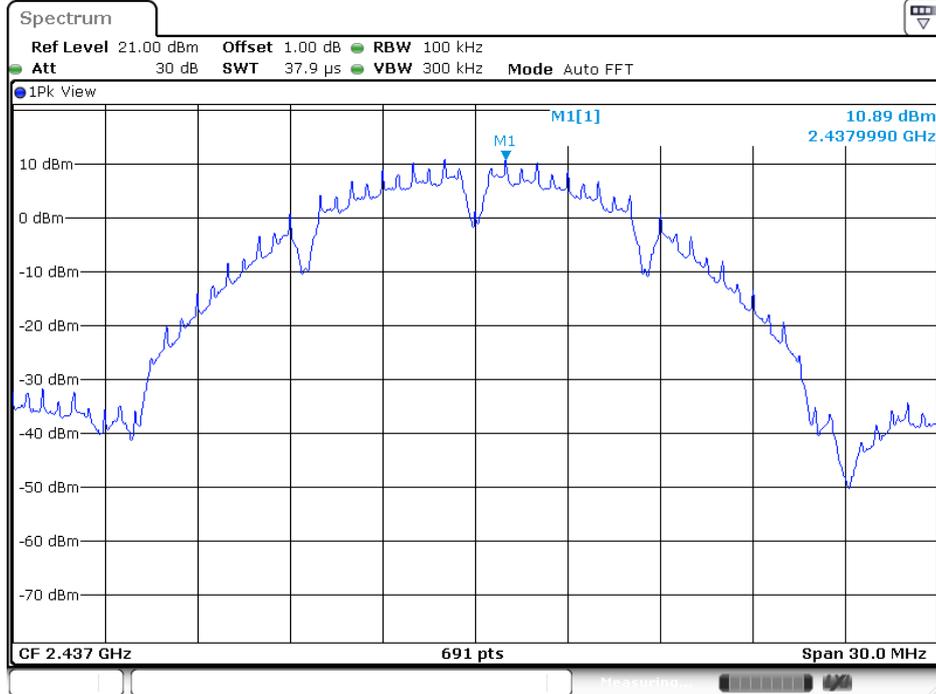
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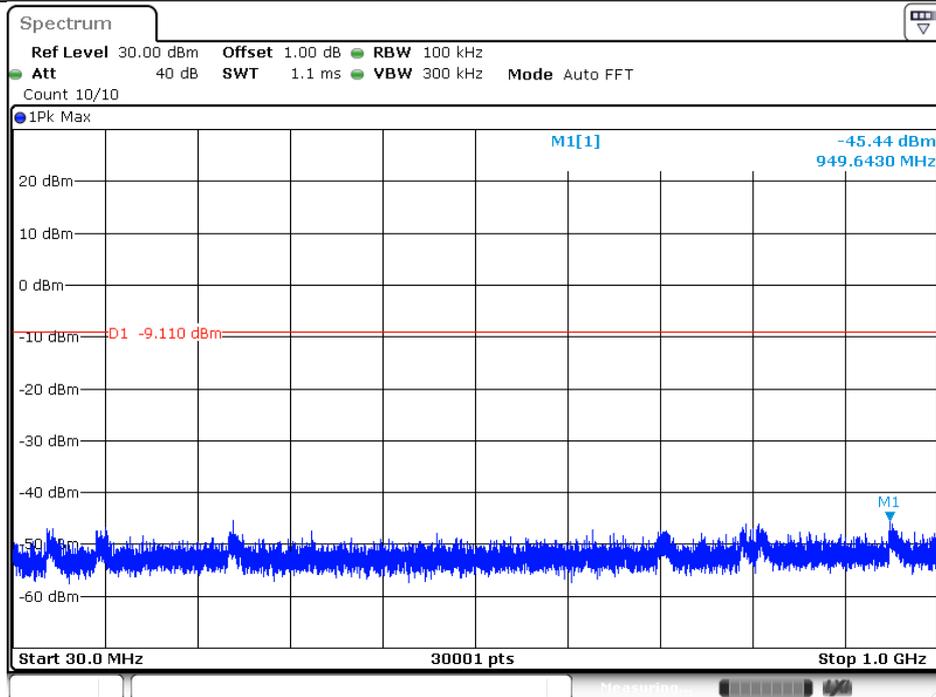
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### 11B\_Ant1\_2437\_0-Reference



Date: 4 DEC 2020 10:02:51

### 11B\_Ant1\_2437\_30-1000

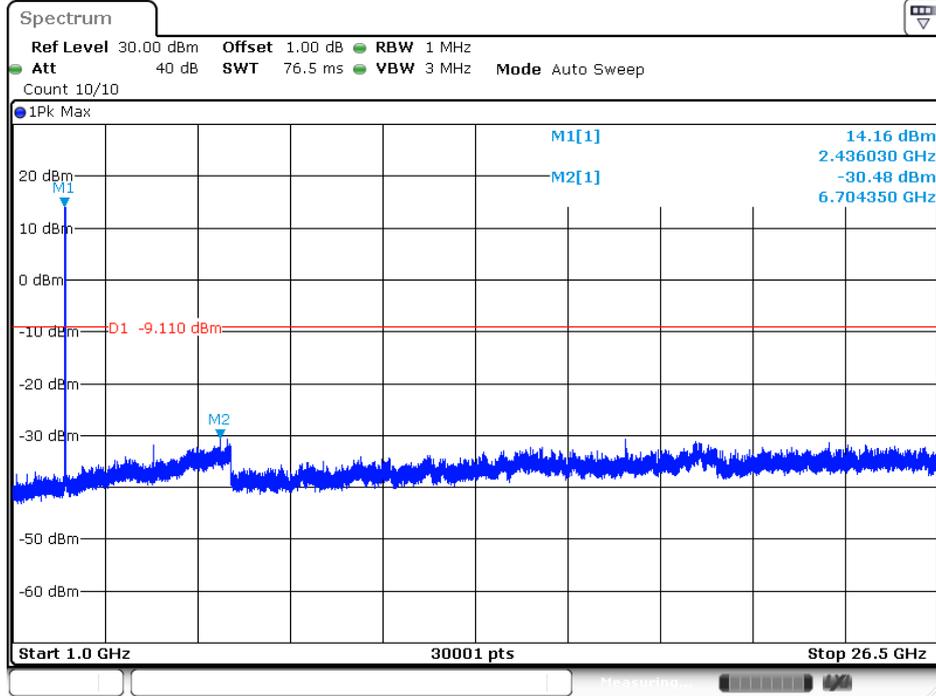


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### 11B\_Ant1\_2437\_1000~26500



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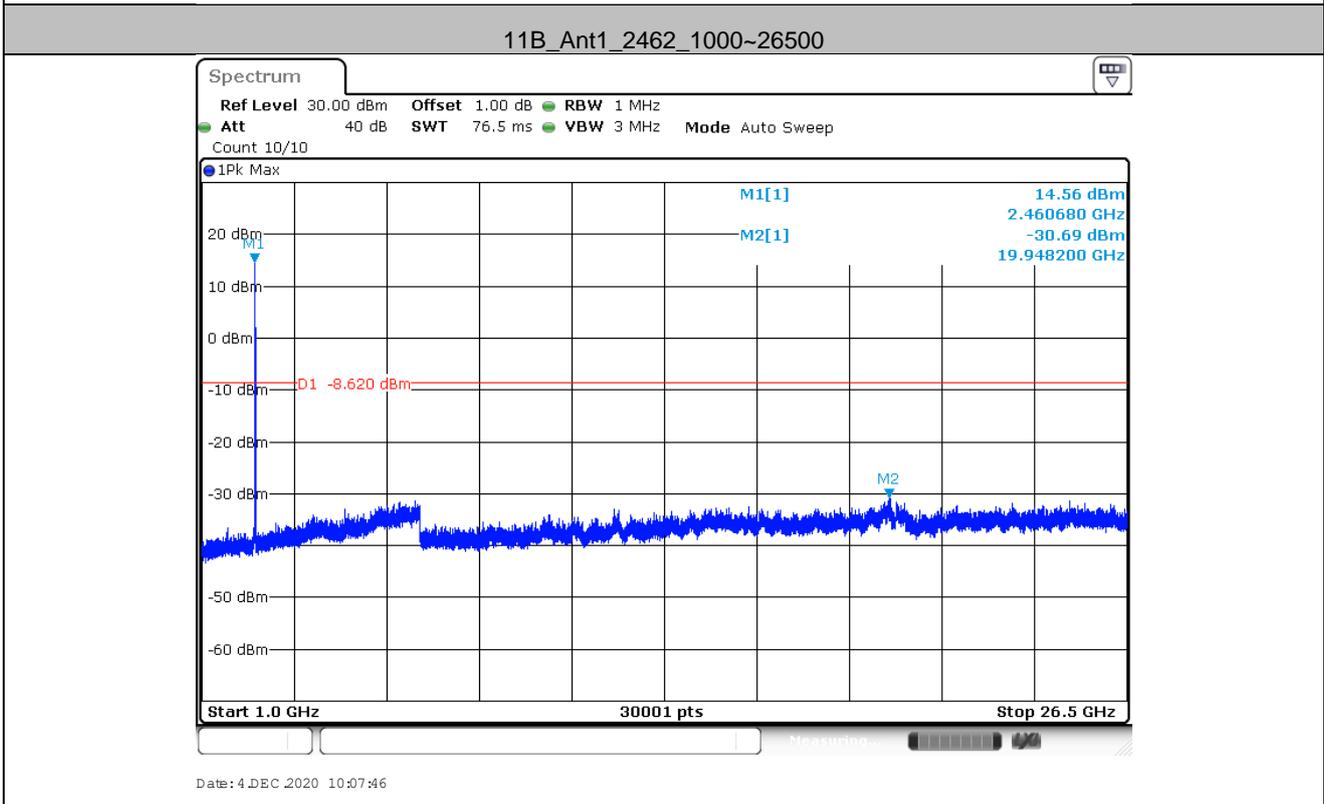
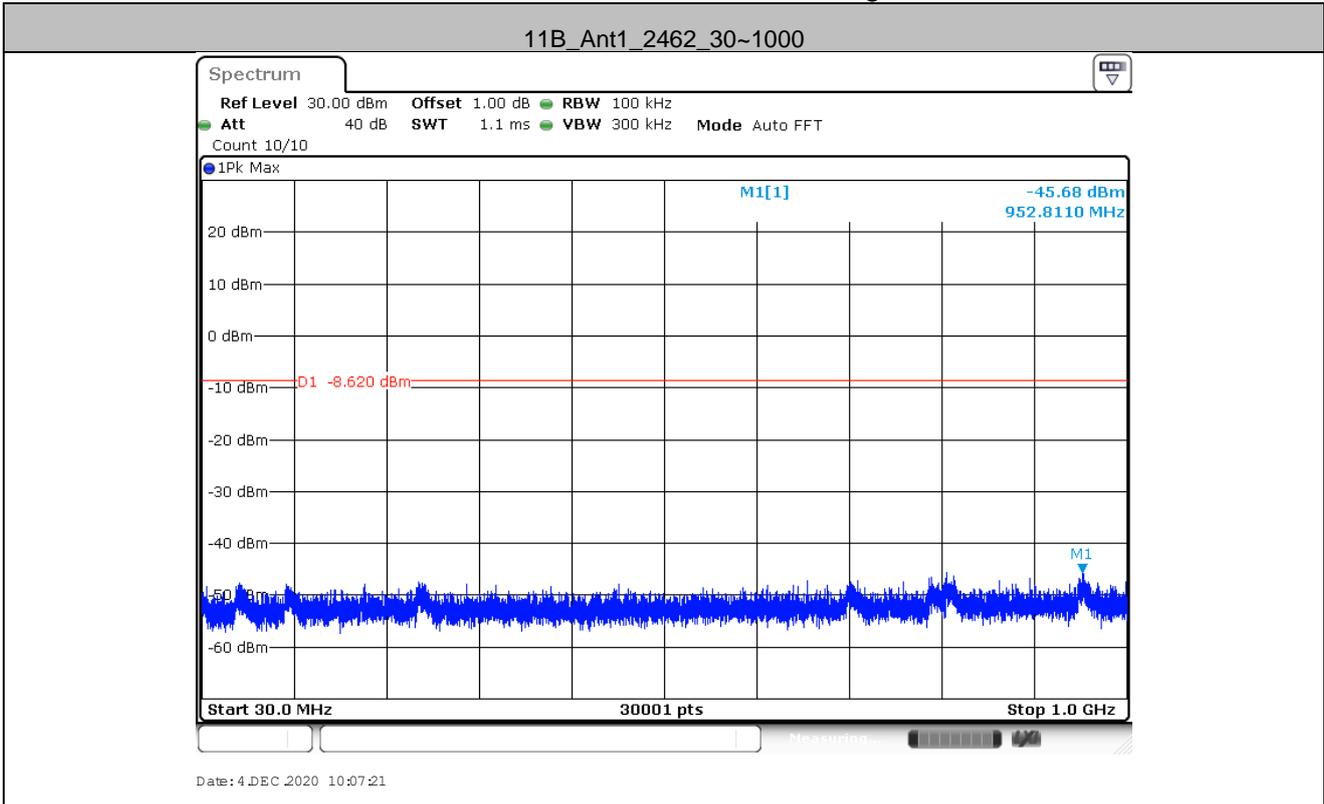
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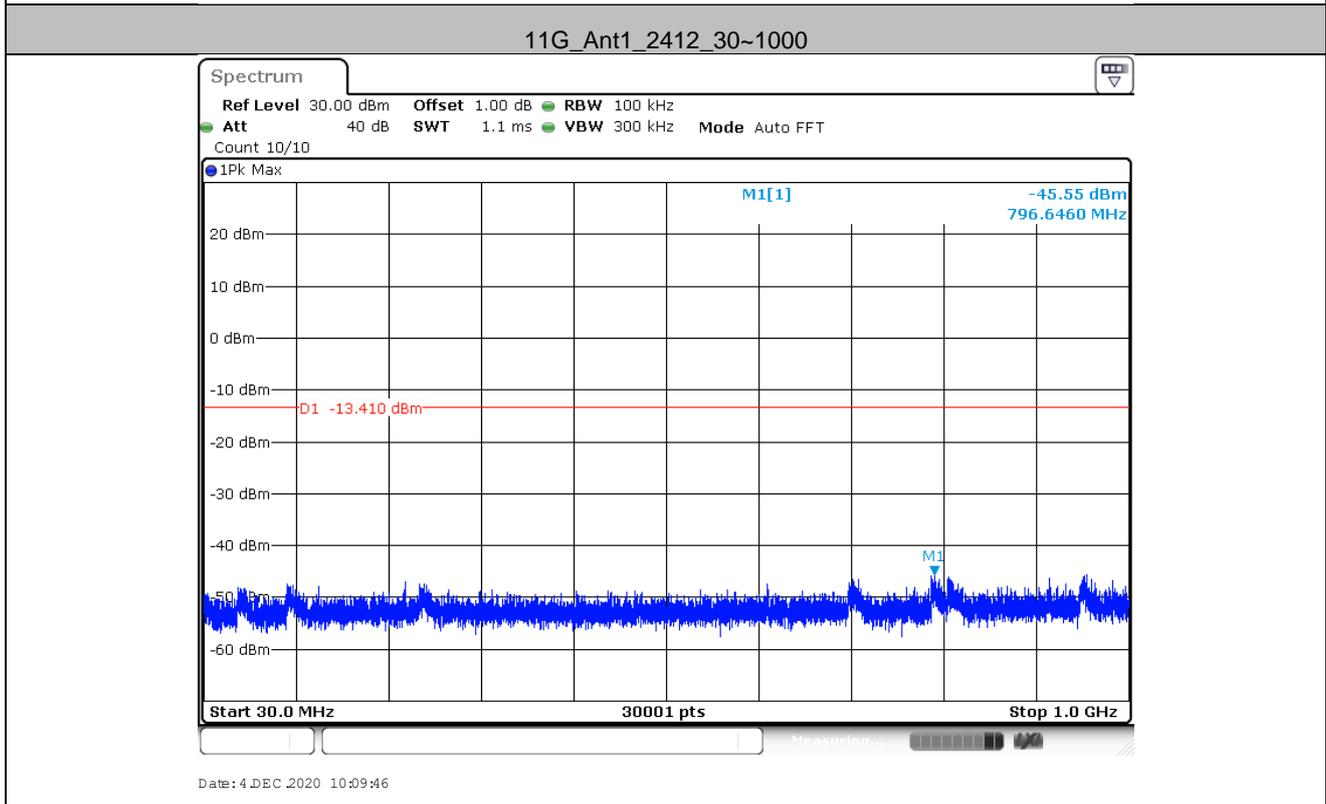
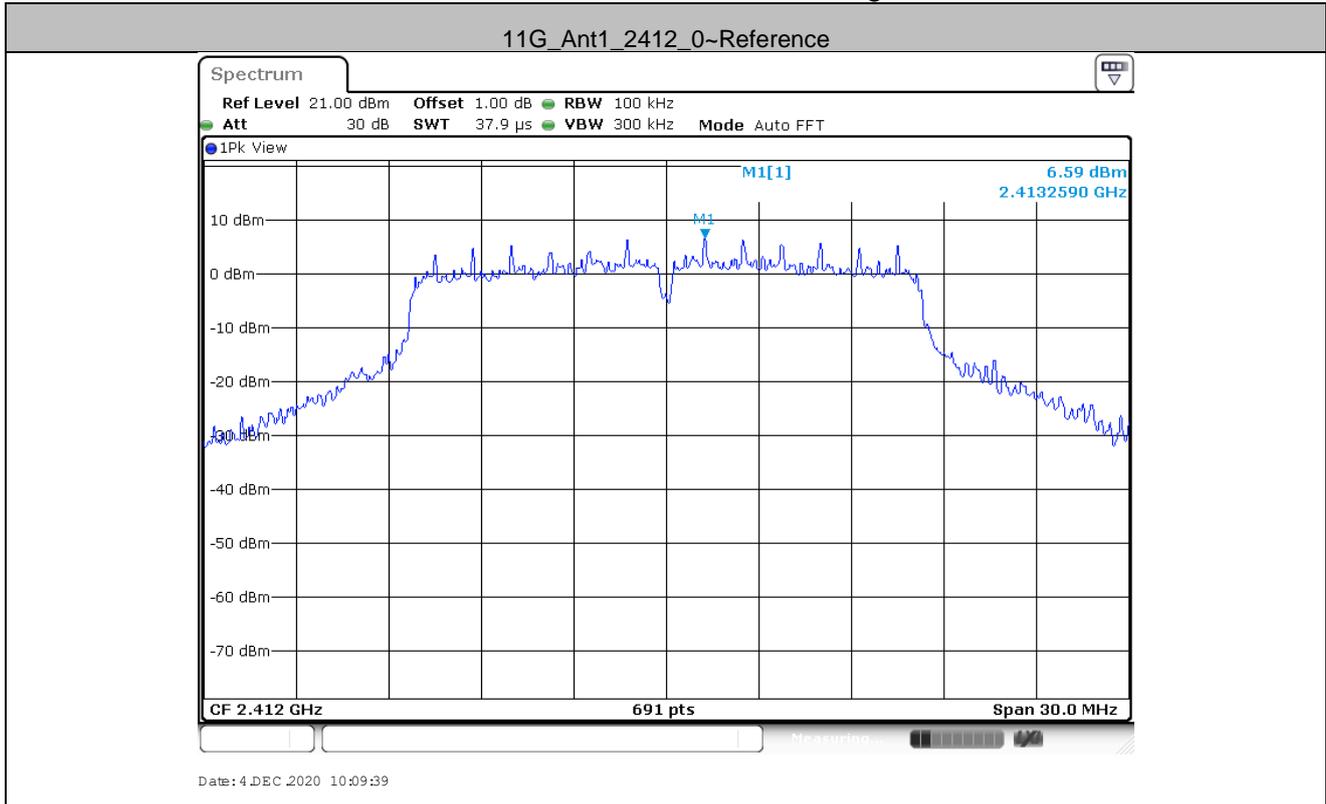
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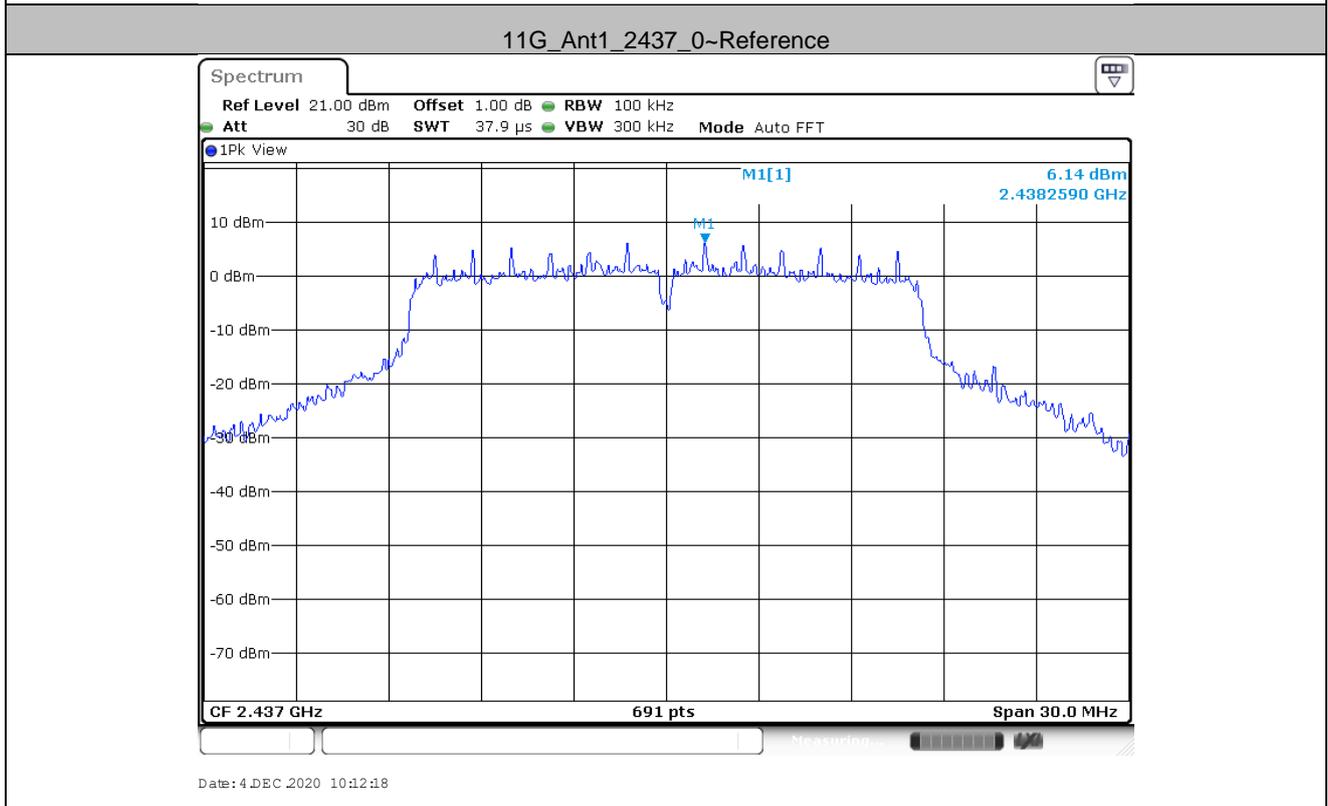
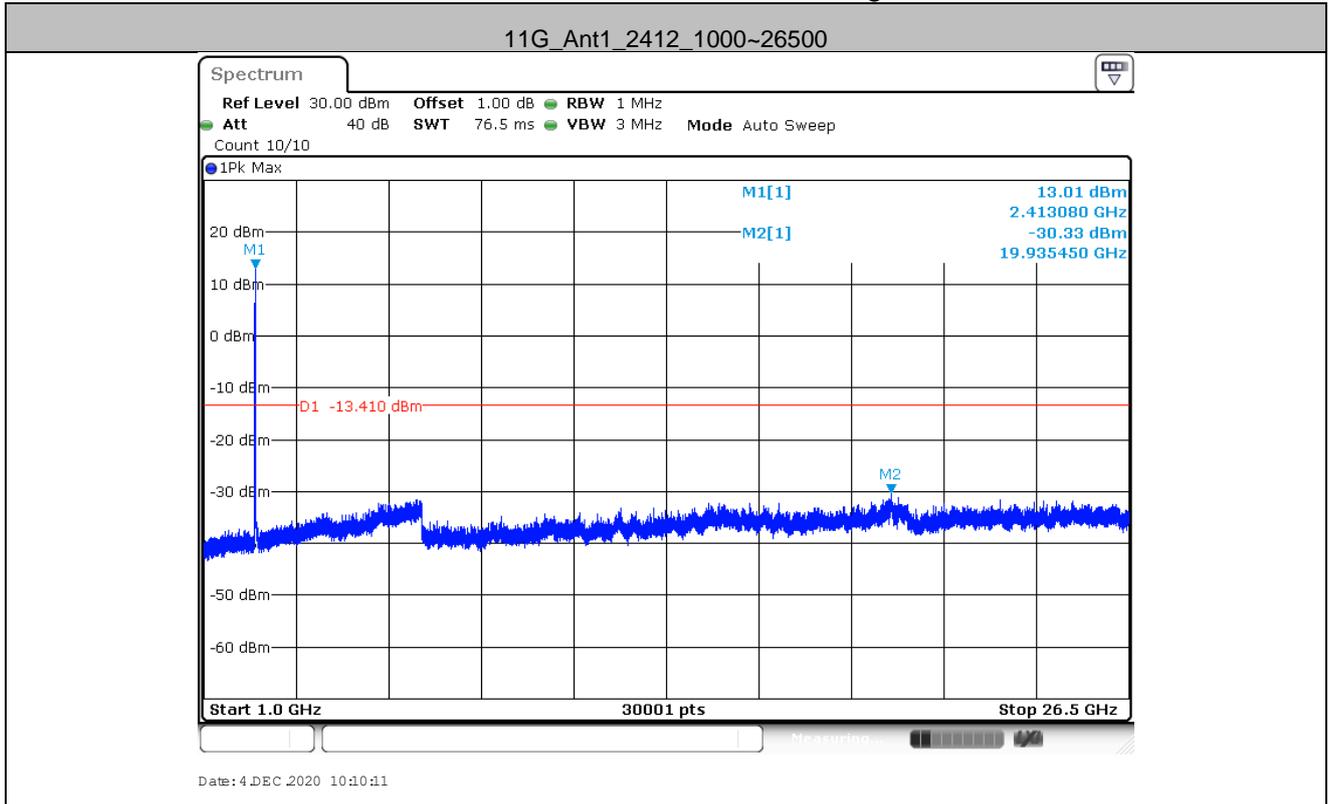


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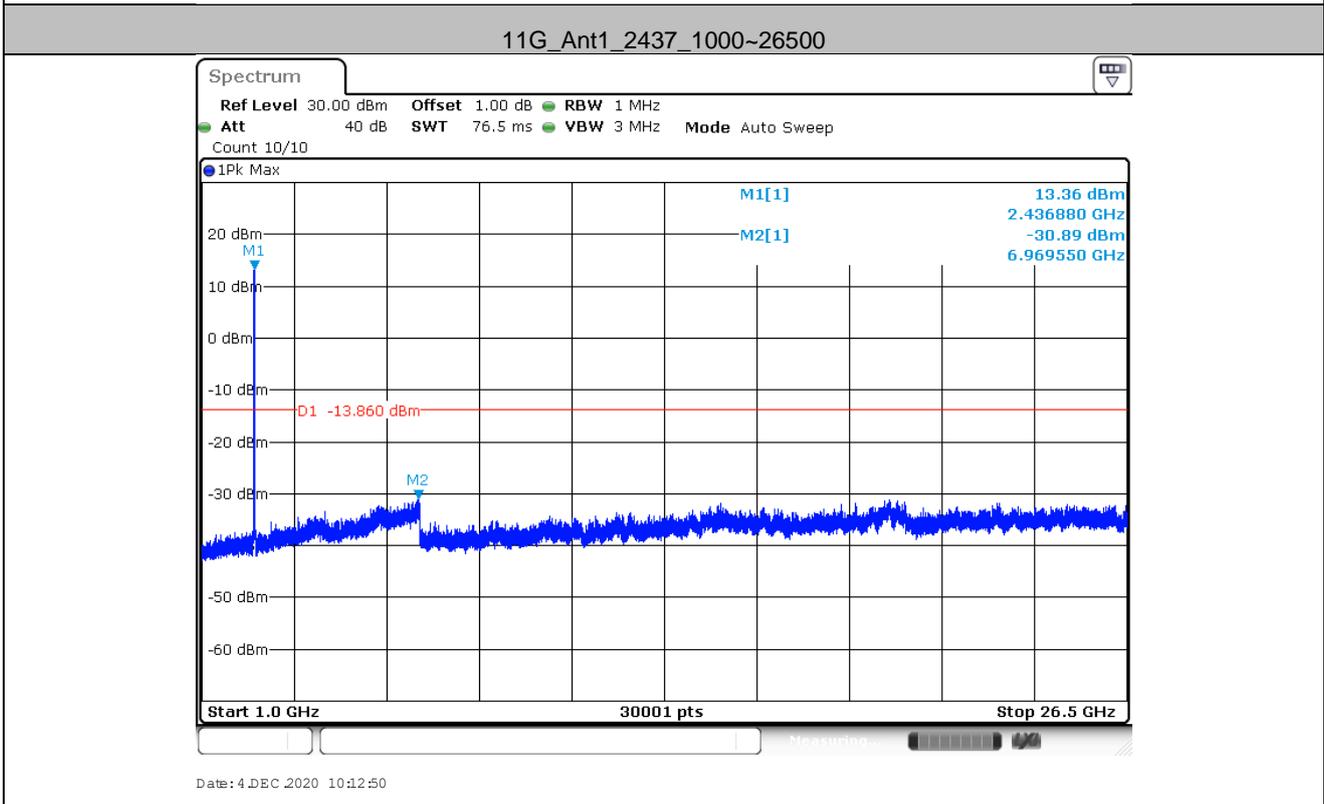
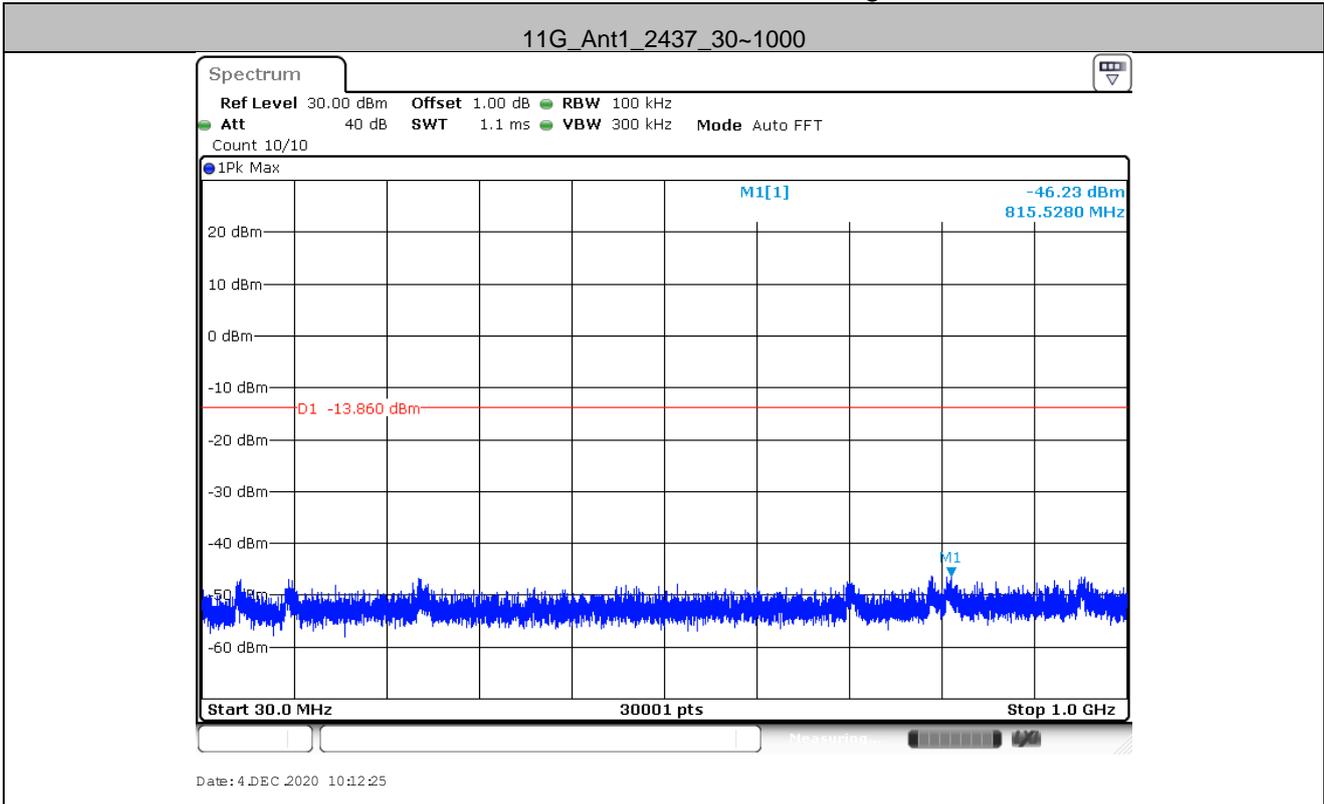
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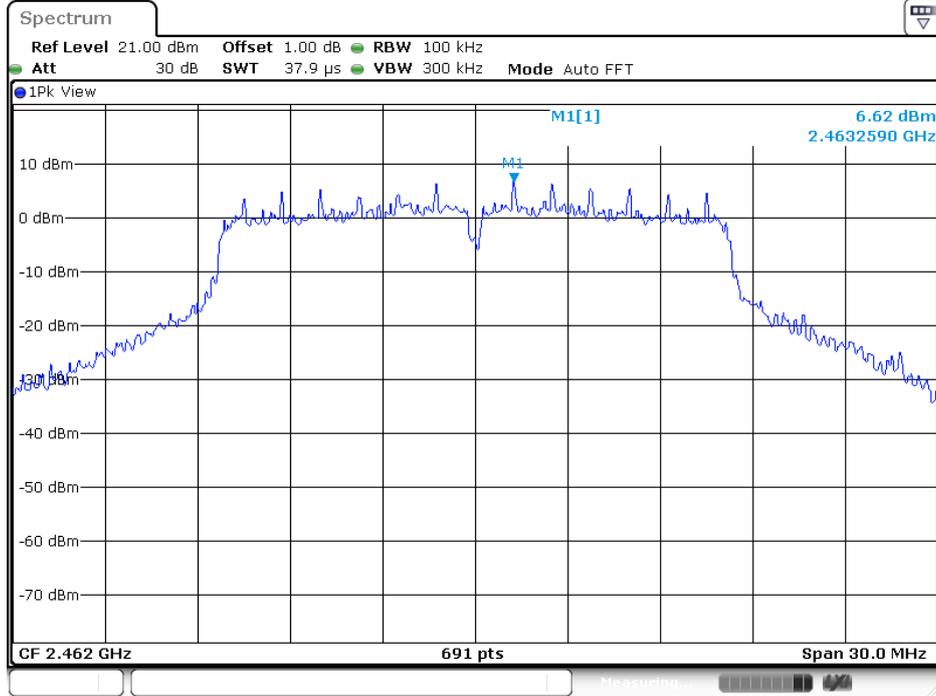
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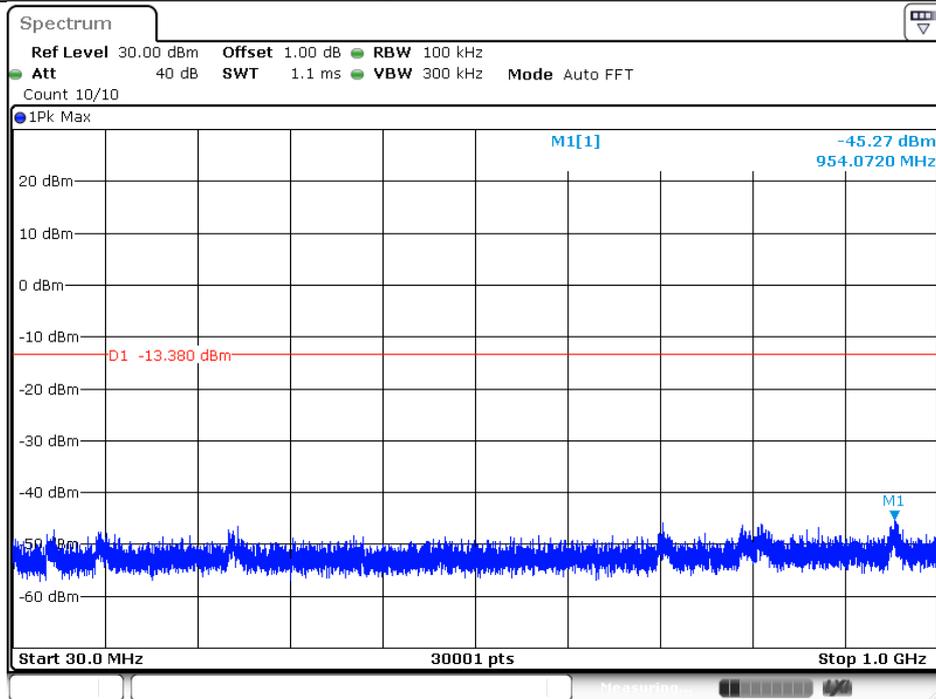
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### 11G\_Ant1\_2462\_0~Reference



Date: 4 DEC 2020 10:14:47

### 11G\_Ant1\_2462\_30~1000

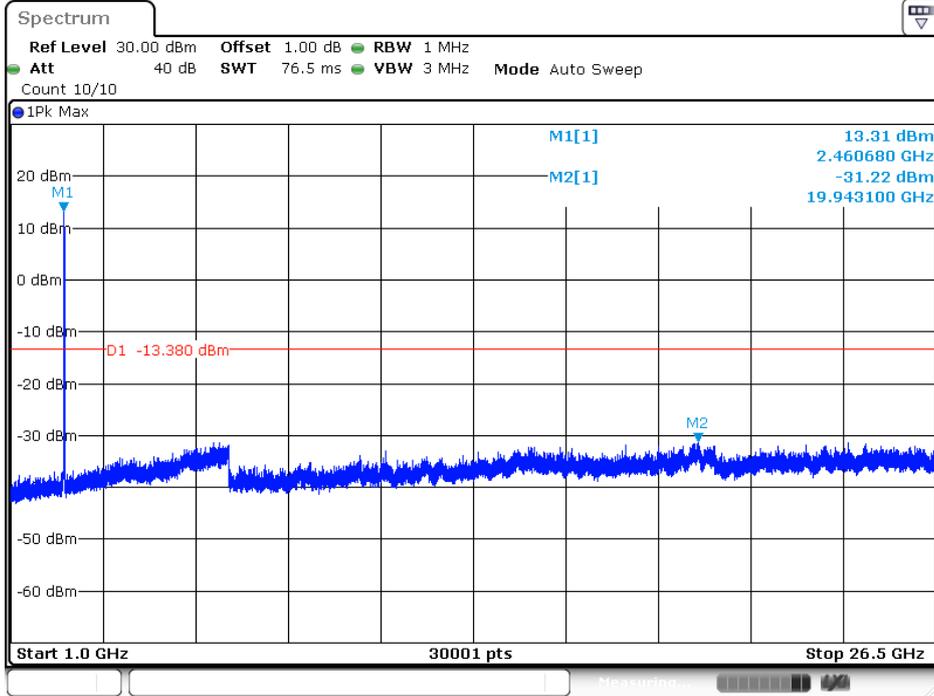


Date: 4 DEC 2020 10:14:54



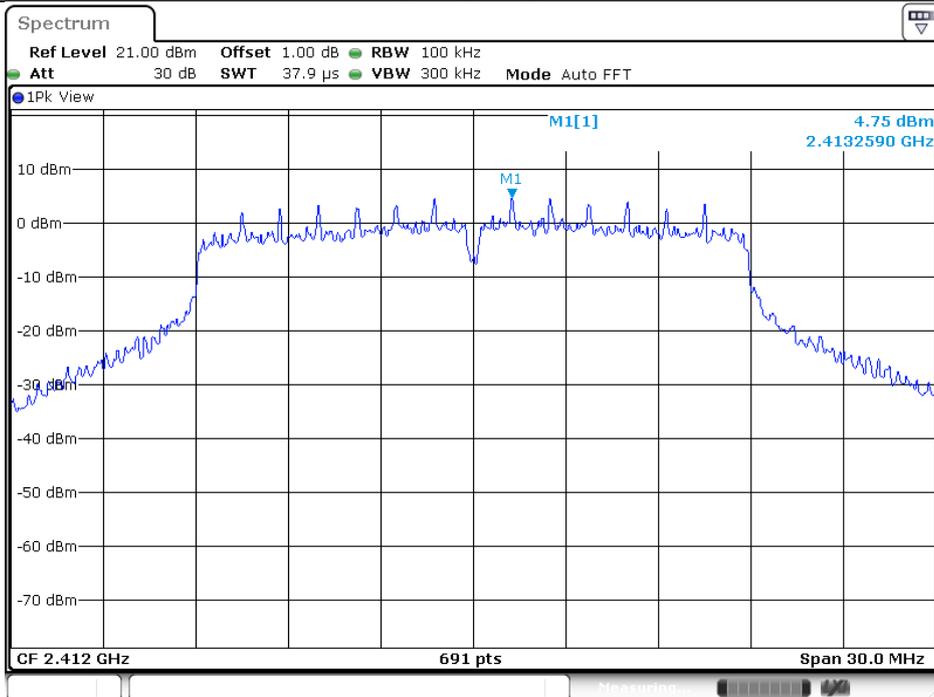
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### 11G\_Ant1\_2462\_1000~26500



Date: 4 DEC 2020 10:15:19

### 11N20SISO\_Ant1\_2412\_0~Reference



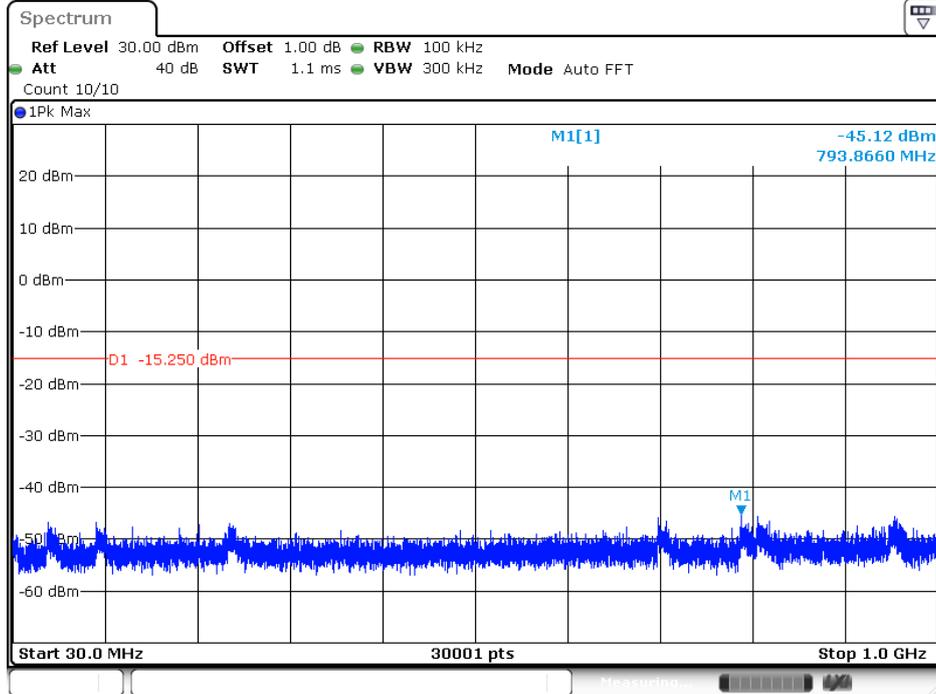
Date: 4 DEC 2020 10:17:16



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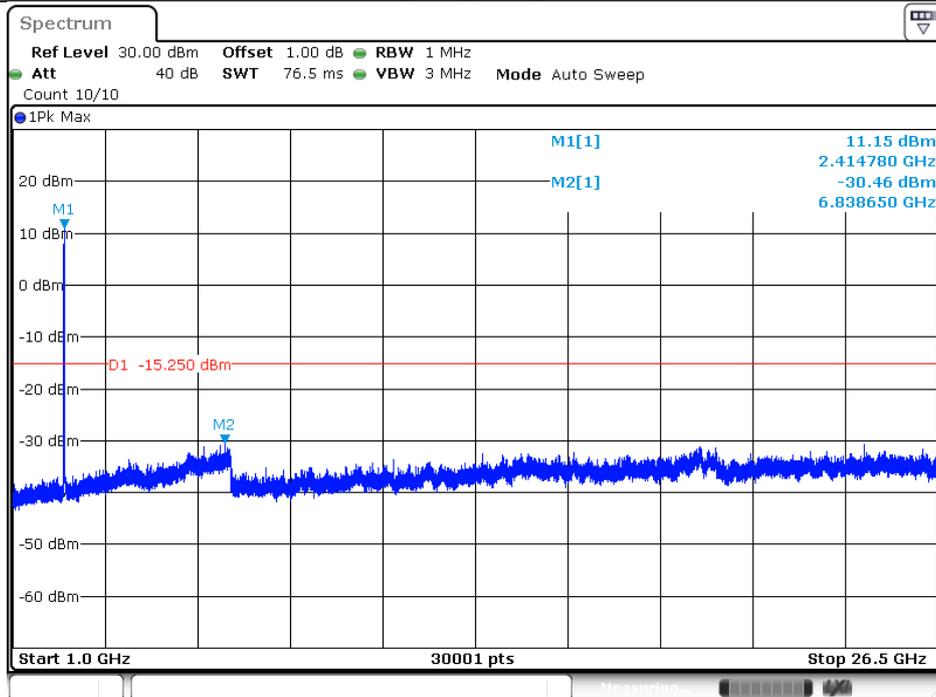
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Date: 4 DEC. 2020 10:17:24

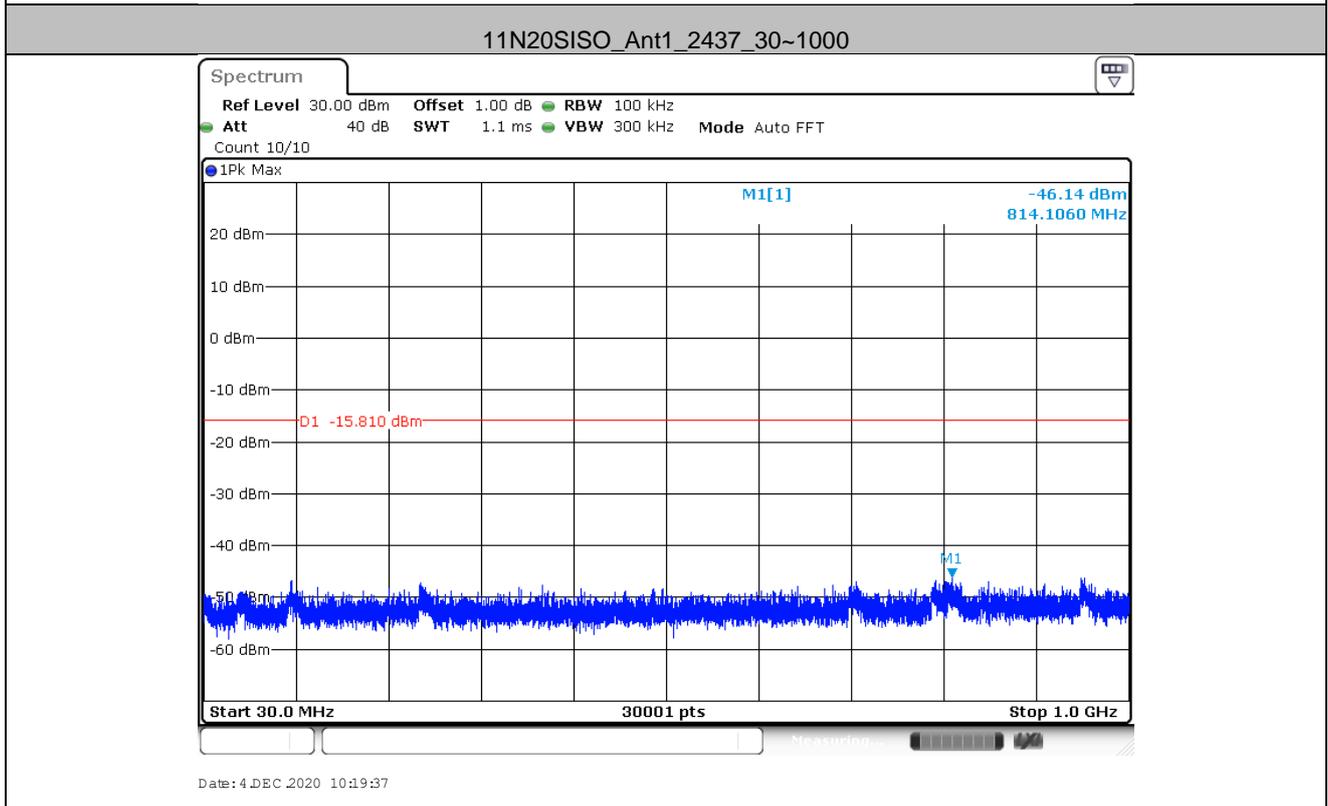
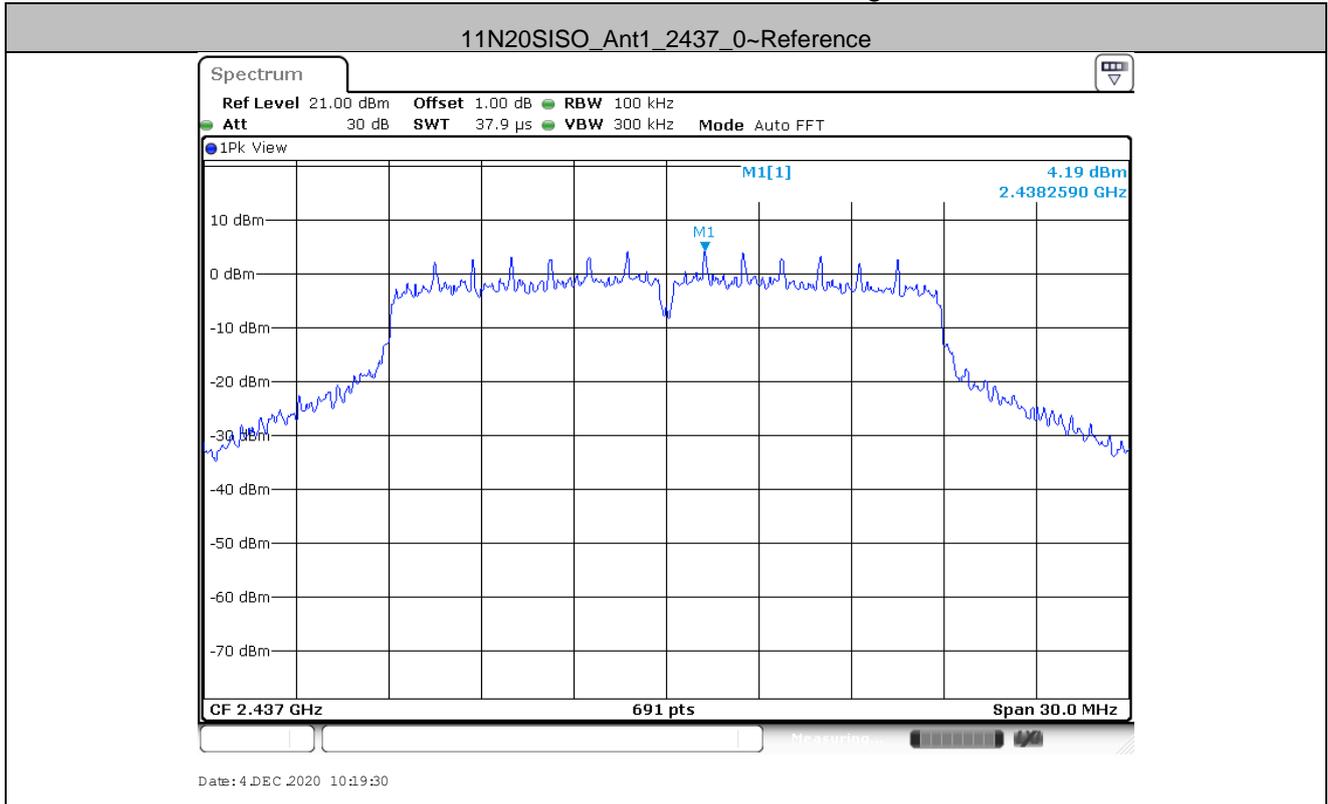
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Date: 4 DEC. 2020 10:17:48



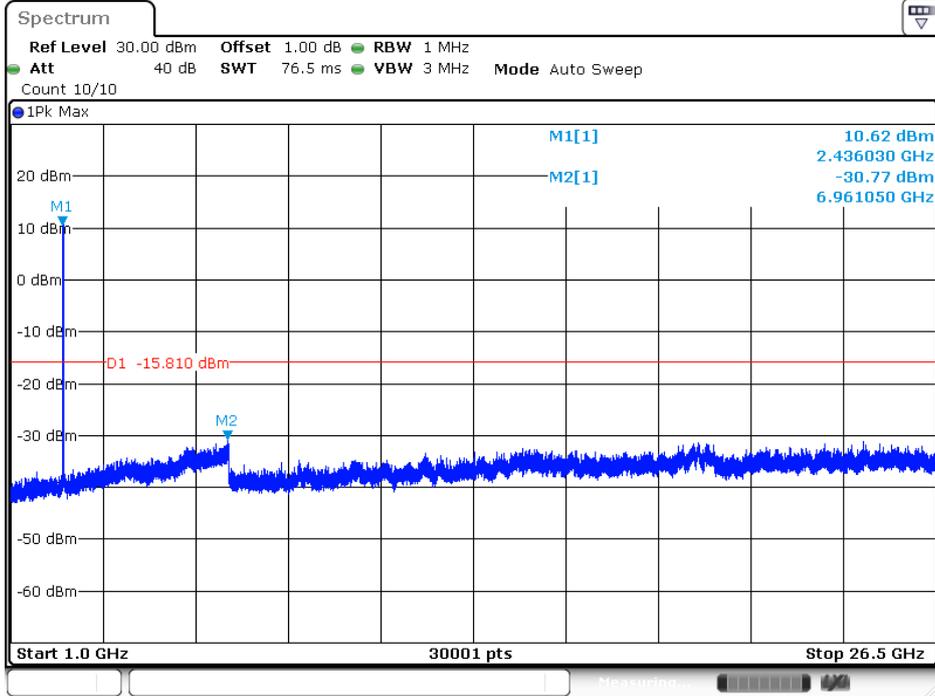
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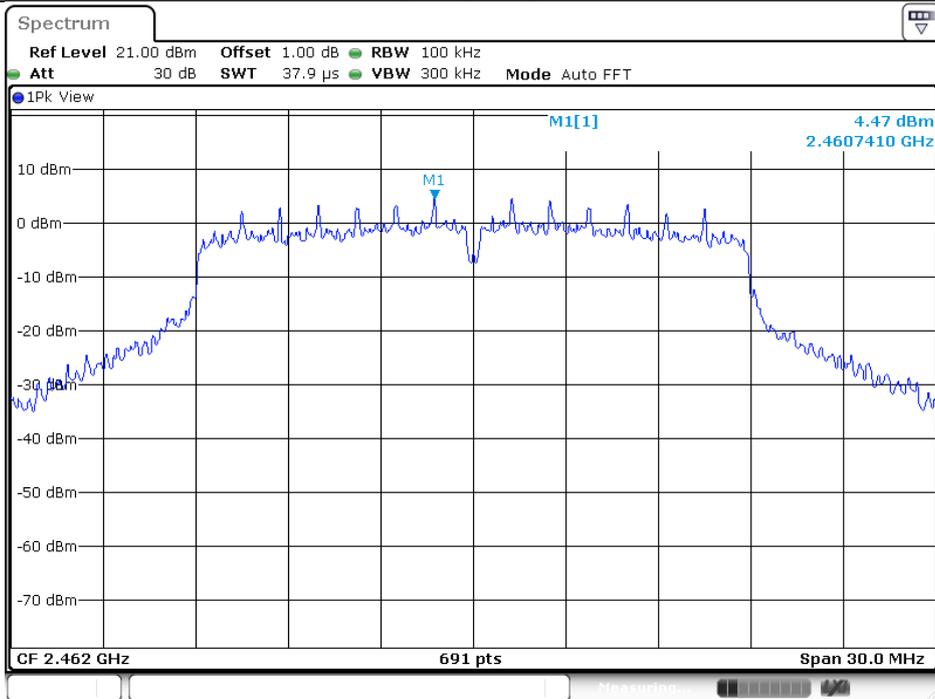
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### 11N20SISO Ant1\_2437\_1000~26500



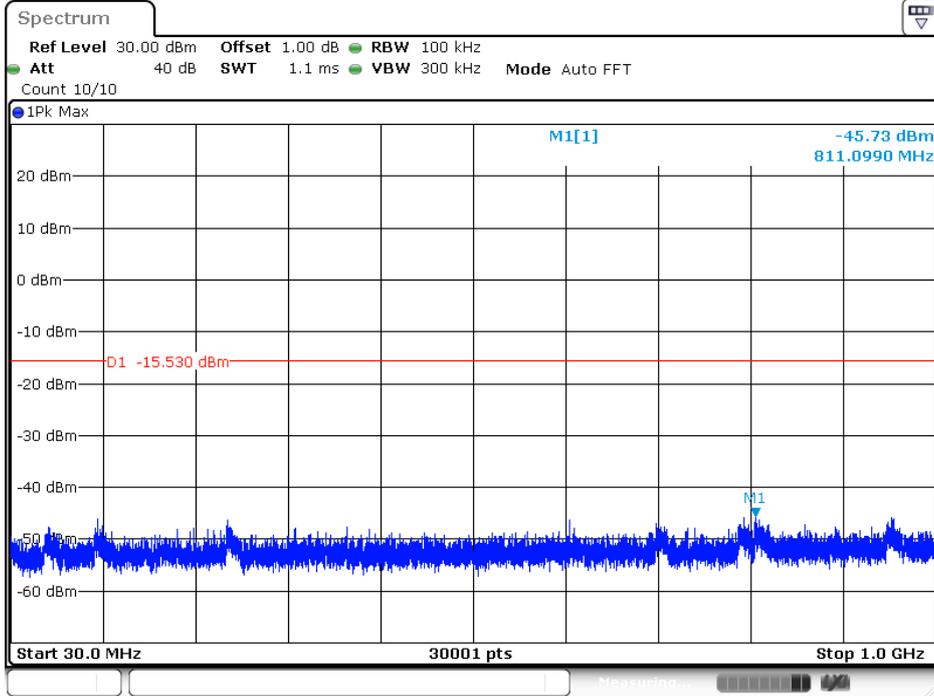
### 11N20SISO Ant1\_2462\_0~Reference



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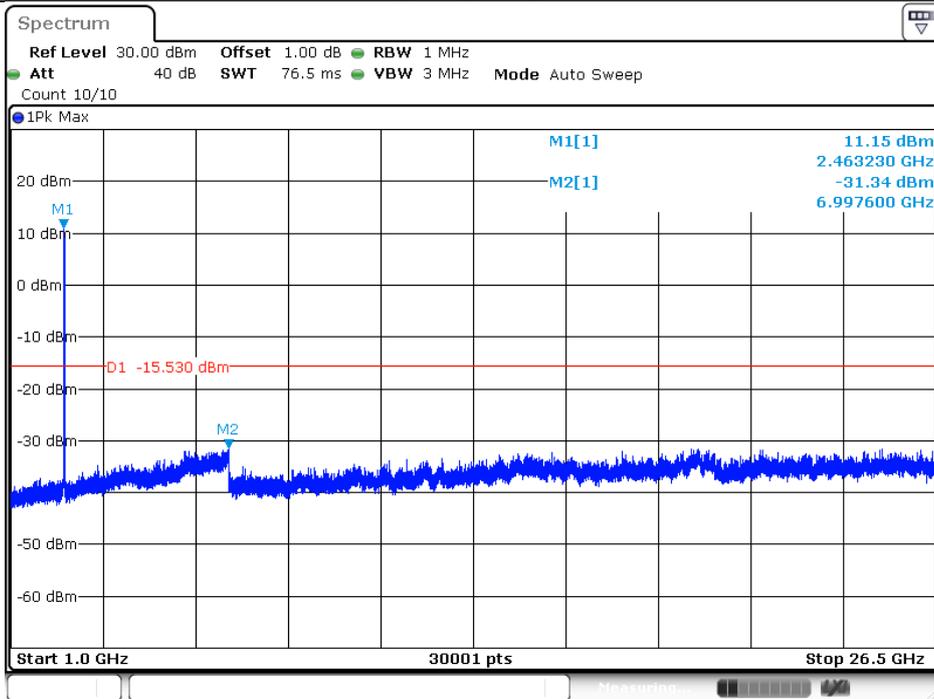
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### 11N20SISO\_Ant1\_2462\_30~1000



Date: 4 DEC 2020 10:22:06

### 11N20SISO\_Ant1\_2462\_1000~26500



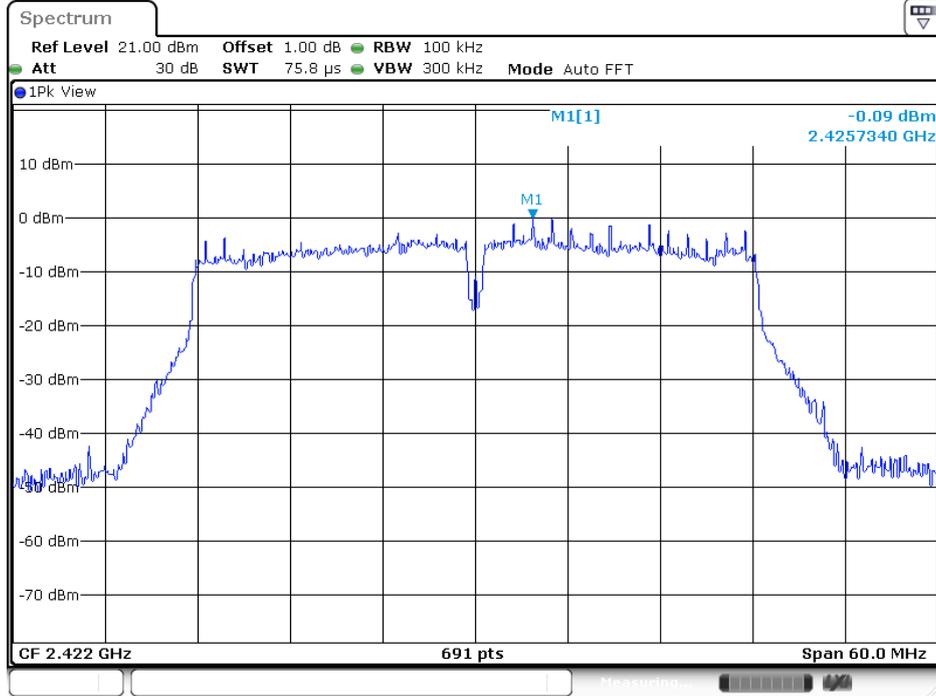
Date: 4 DEC 2020 10:22:30



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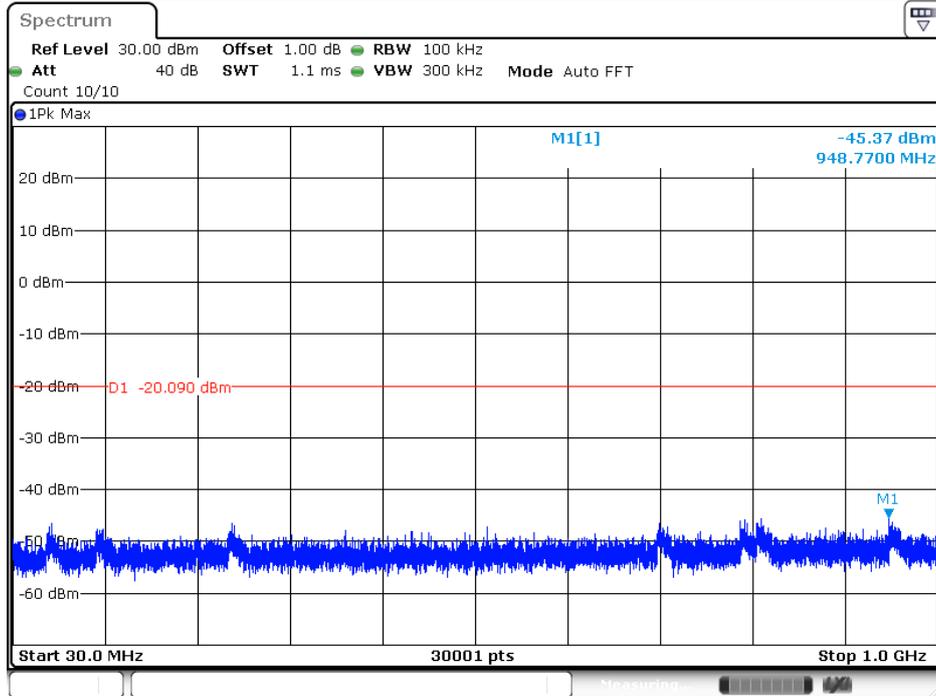
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### 11N40SISO\_Ant1\_2422\_0~Reference



Date: 4 DEC 2020 10:25:53

### 11N40SISO\_Ant1\_2422\_30~1000

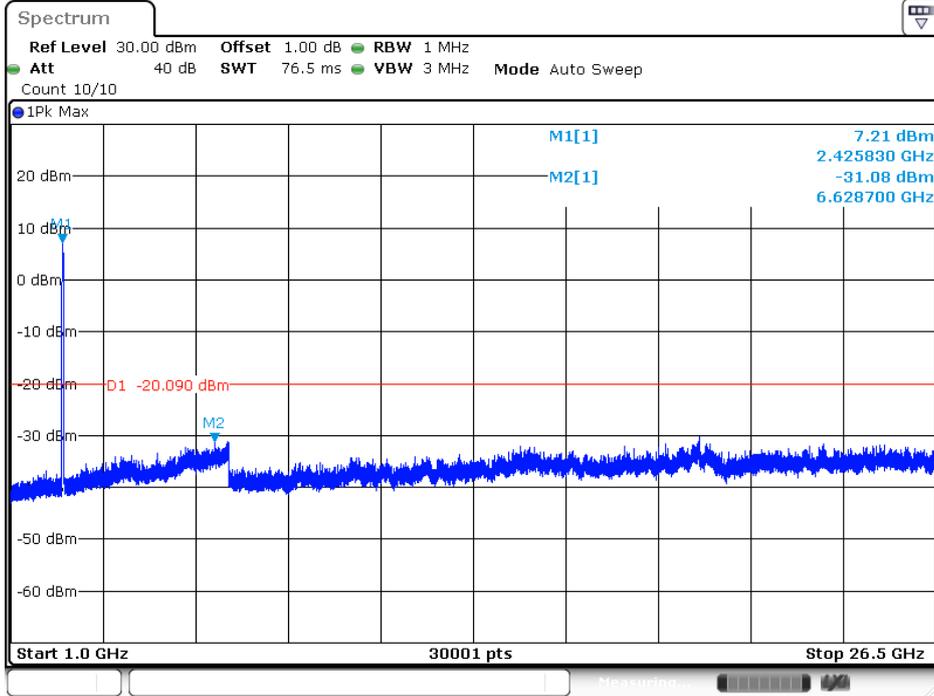


Date: 4 DEC 2020 10:26:00



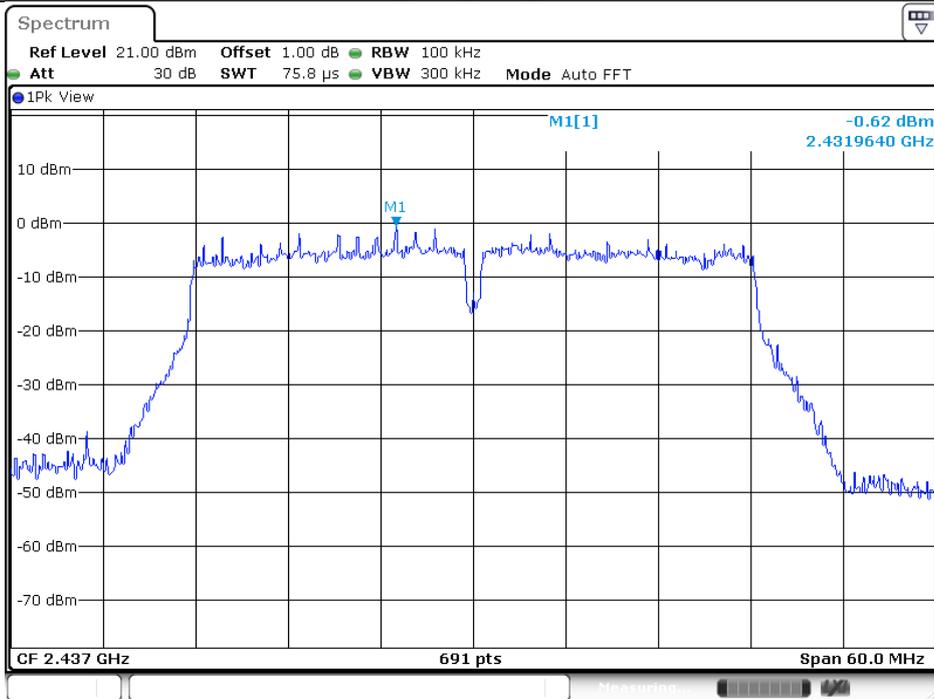
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### 11N40SISO Ant1\_2422\_1000~26500



Date: 4 DEC 2020 10:26:25

### 11N40SISO Ant1\_2437\_0~Reference

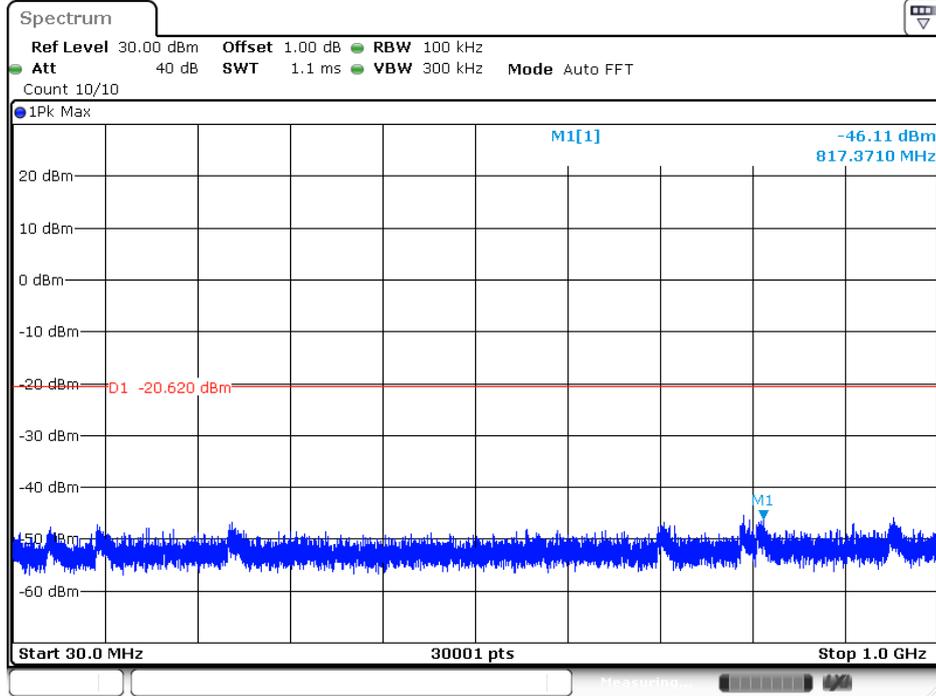


Date: 4 DEC 2020 10:28:28



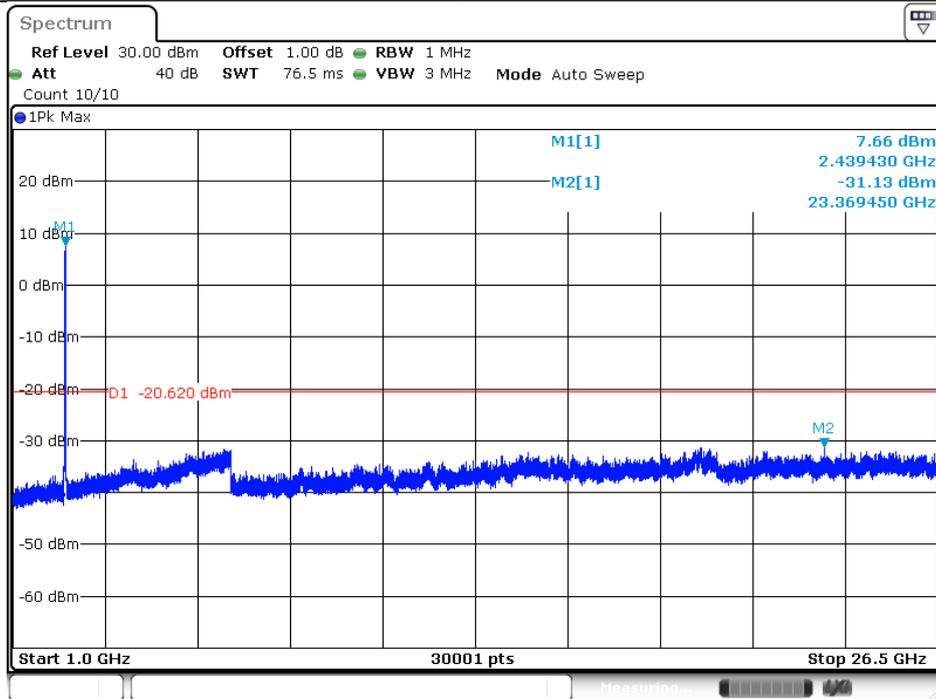
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Date: 4 DEC 2020 10:28:35

### 11N40SISO\_Ant1\_2437\_1000~26500

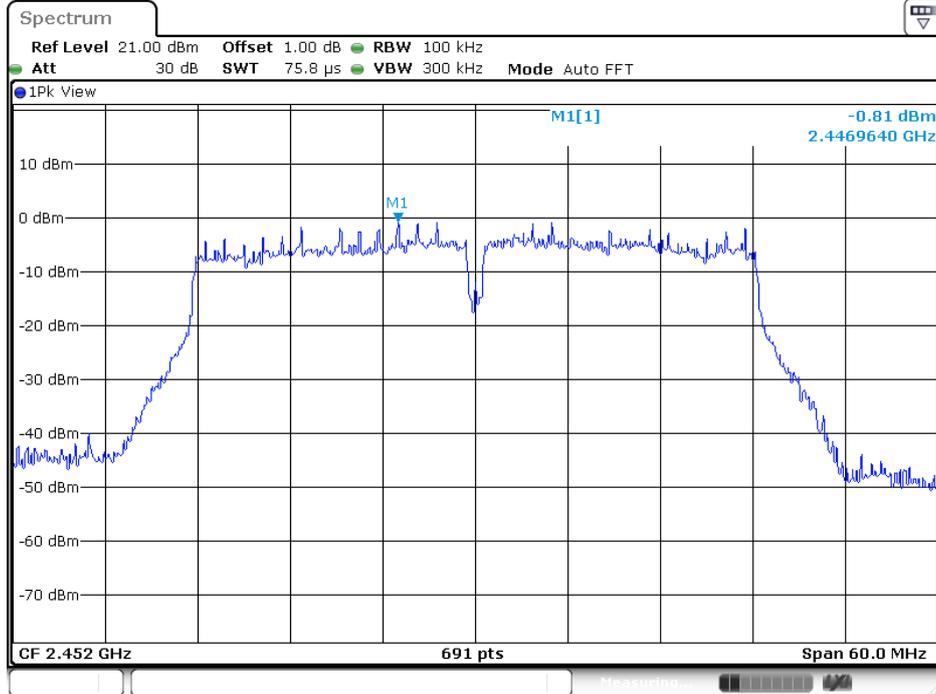


Date: 4 DEC 2020 10:29:00



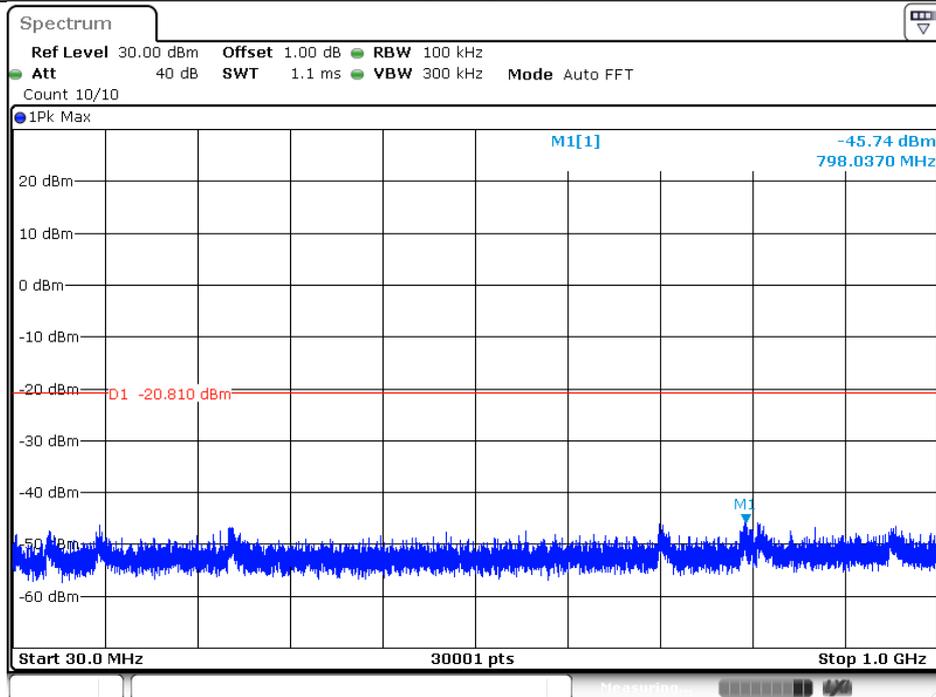
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Date: 4 DEC 2020 10:30:57

### 11N40SISO\_Ant1\_2452\_30~1000

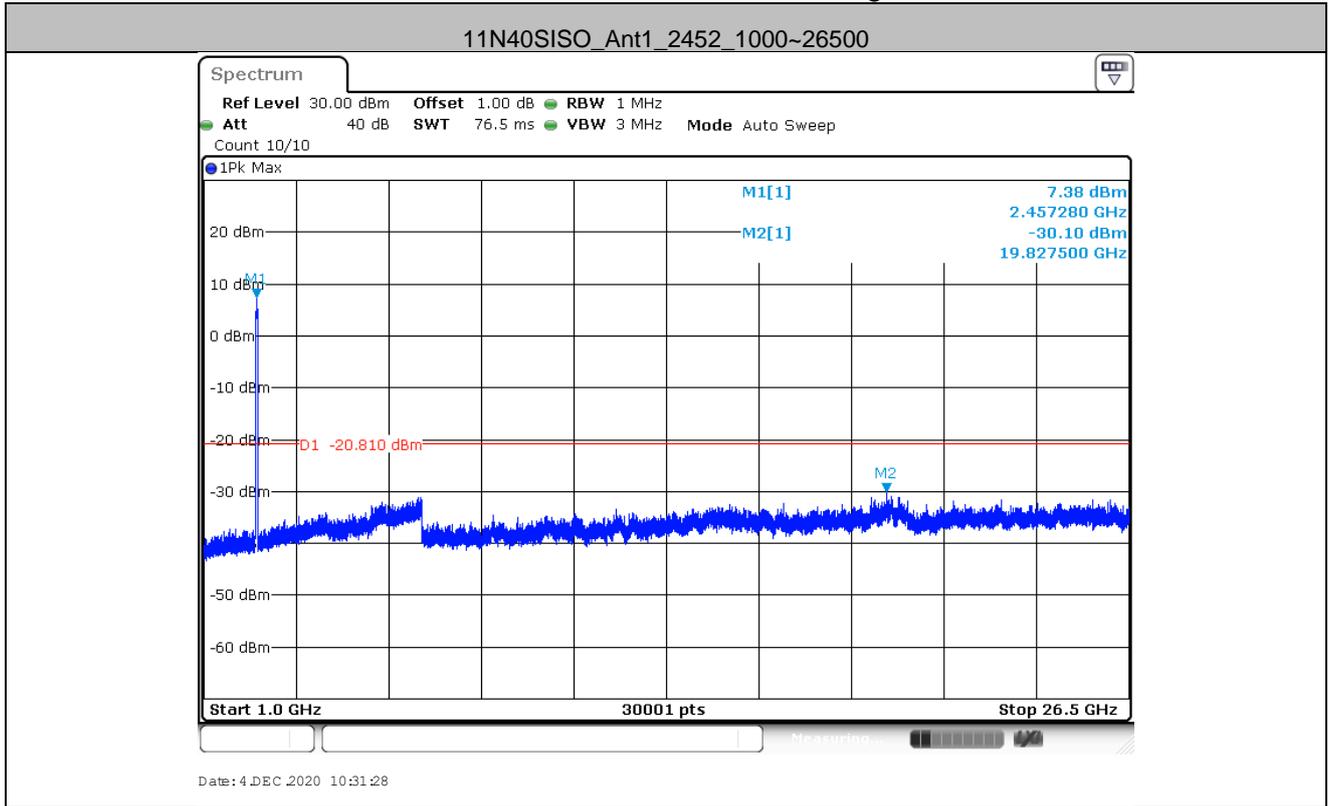


Date: 4 DEC 2020 10:31:04



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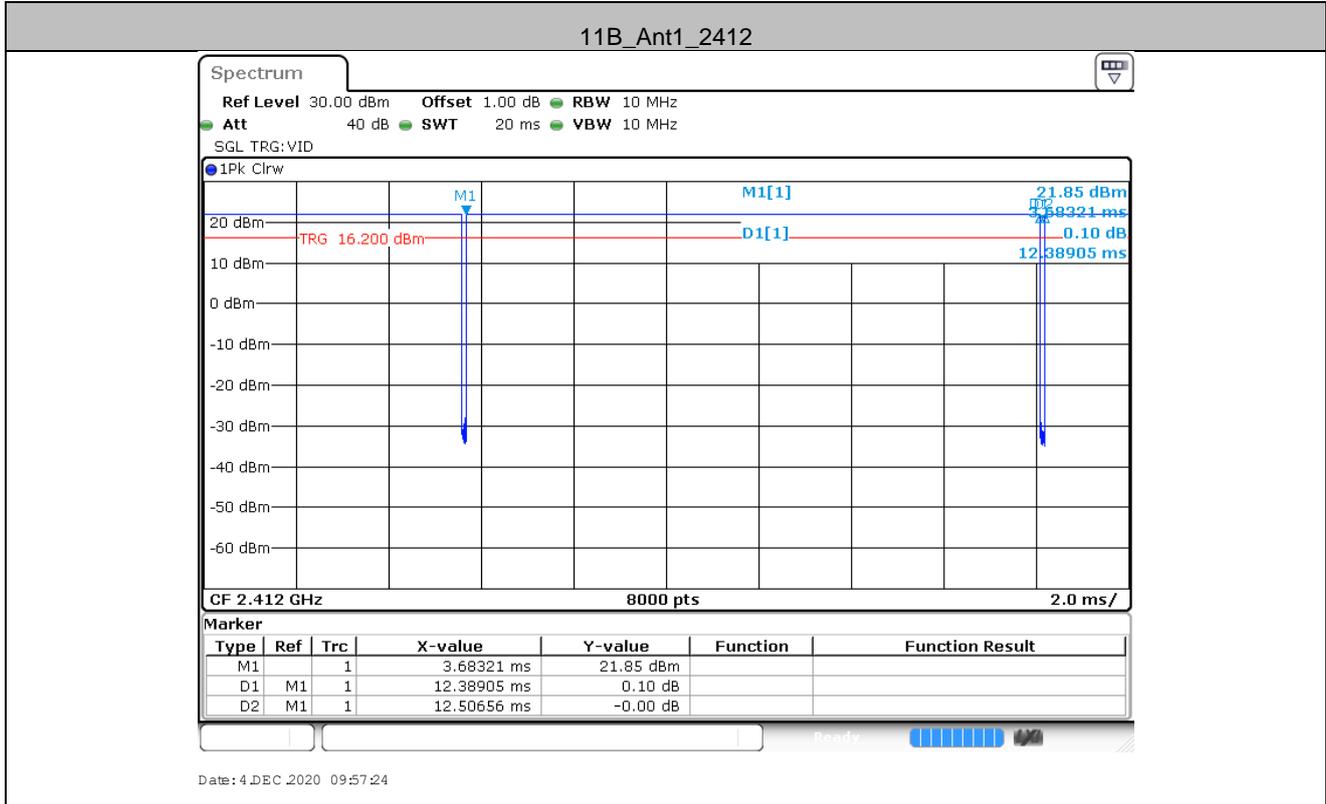
**Duty Cycle**  
**Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
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		2437	12.40	12.52	99.04	---	PASS
		2462	12.39	12.51	99.04	---	PASS
11G	Ant1	2412	2.05	2.09	98.09	---	PASS
		2437	2.05	2.09	98.09	---	PASS
		2462	2.05	2.09	98.09	---	PASS
11N20SISO	Ant1	2412	1.91	1.95	97.95	---	PASS
		2437	1.91	1.95	97.95	---	PASS
		2462	1.91	1.95	97.95	---	PASS
11N40SISO	Ant1	2422	0.94	0.99	94.95	---	PASS
		2437	0.94	0.99	94.95	---	PASS
		2452	0.94	0.99	94.95	---	PASS



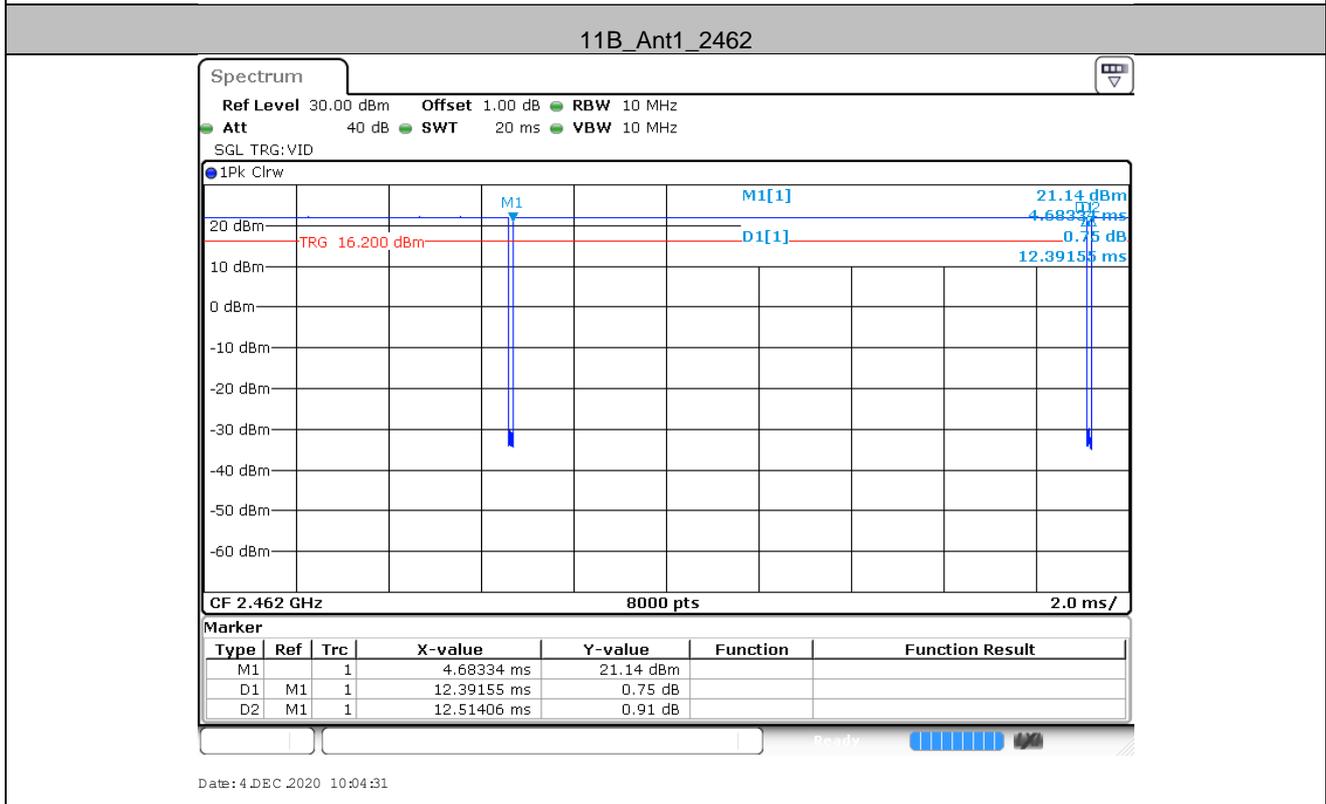
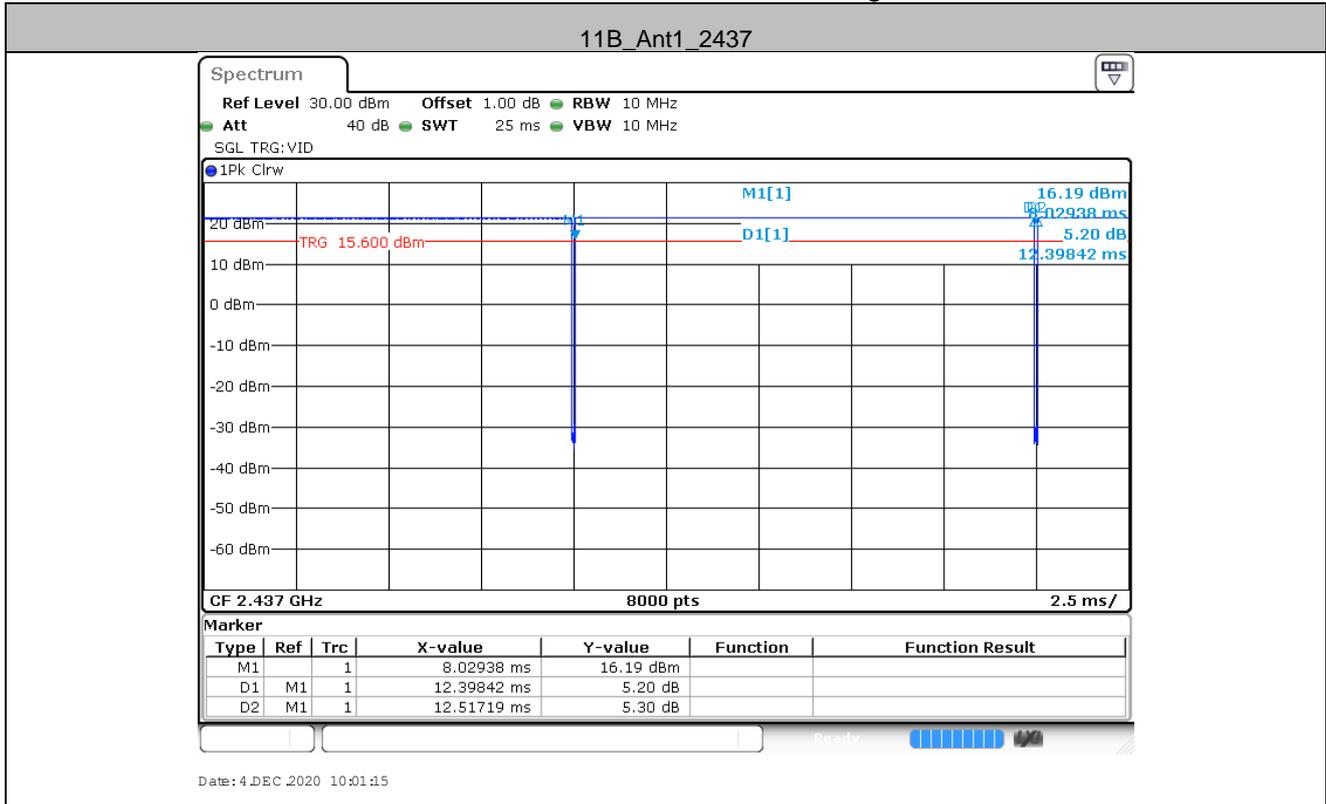
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### Test Graphs

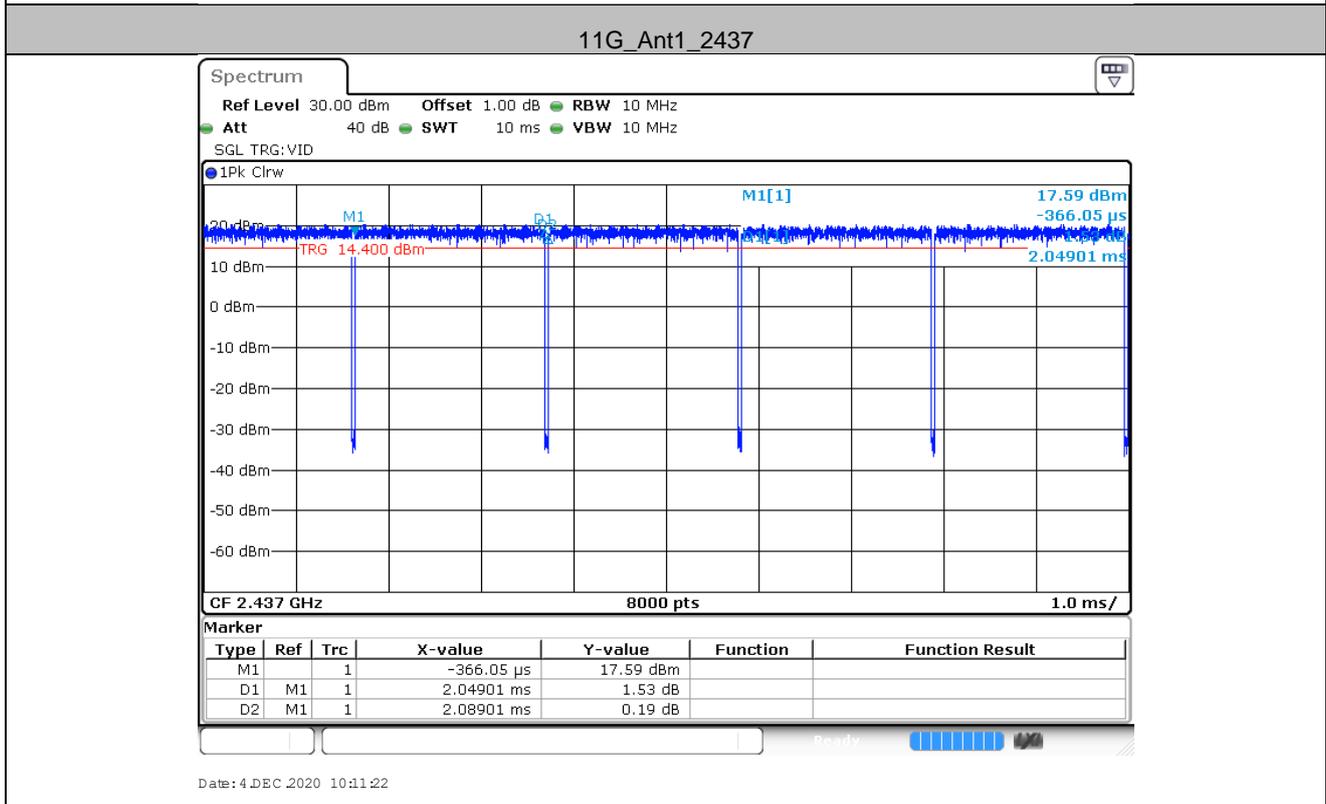
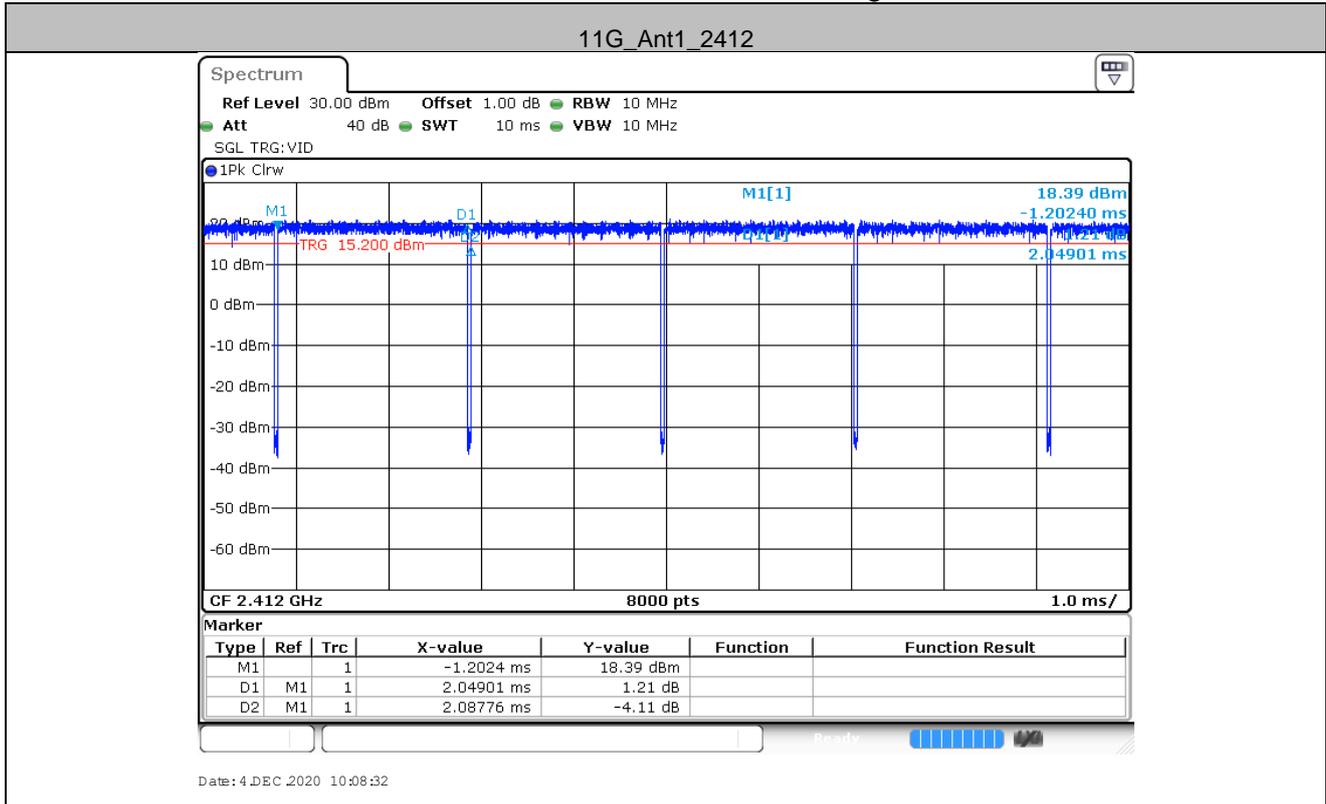


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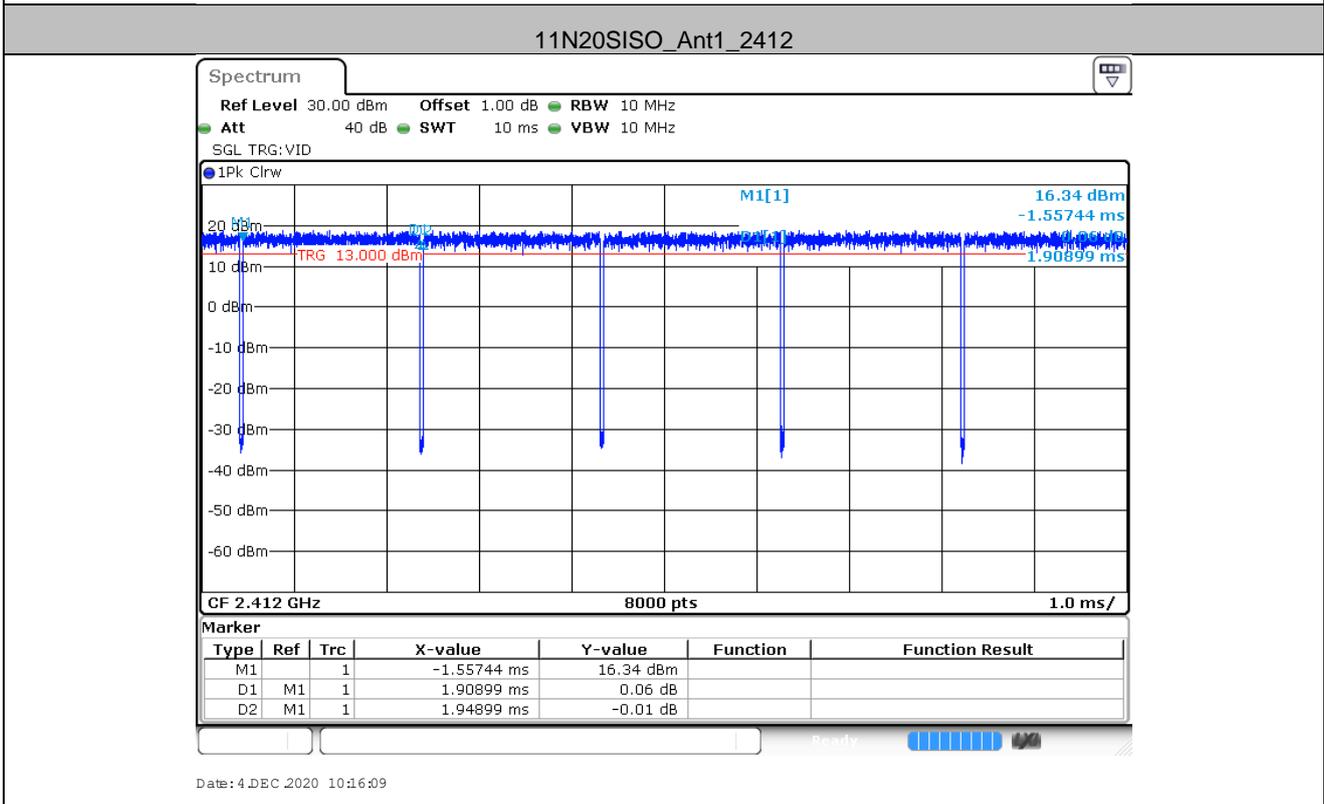
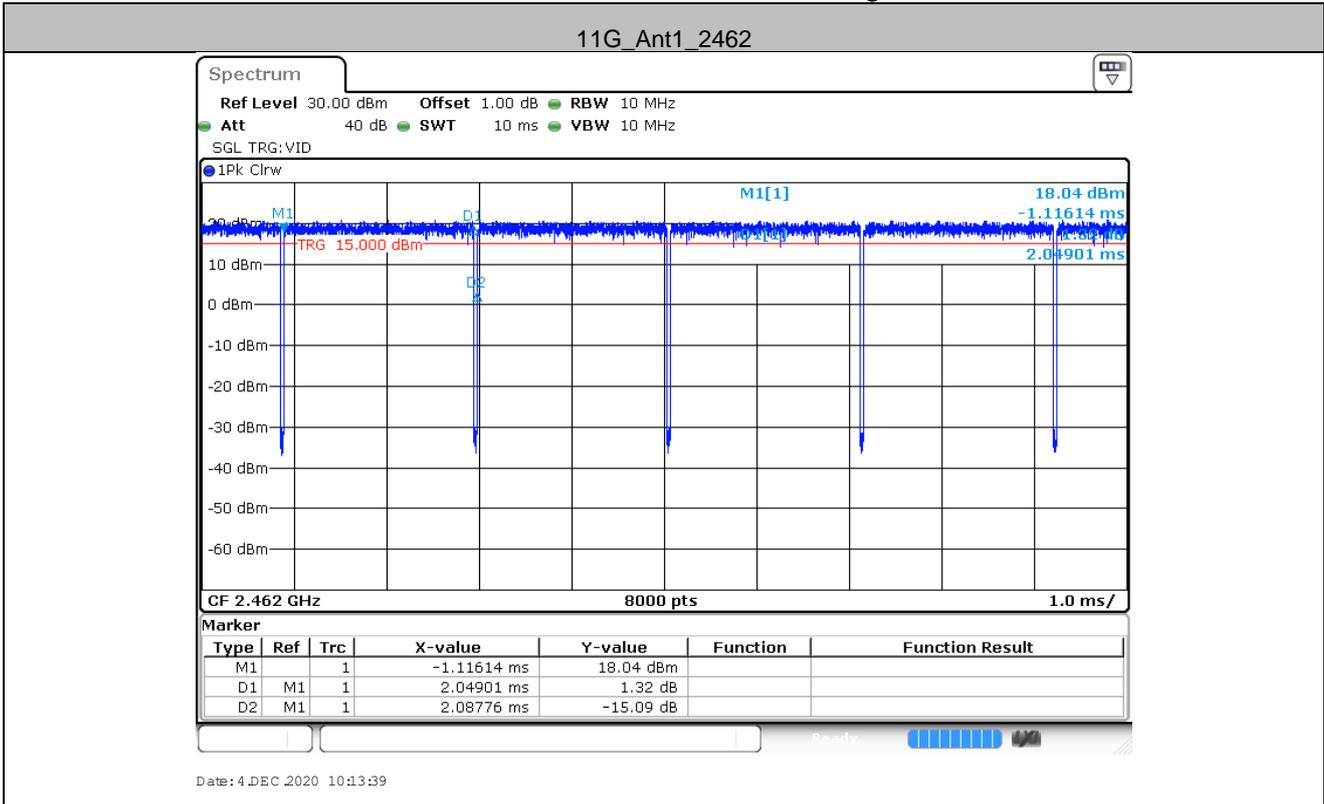


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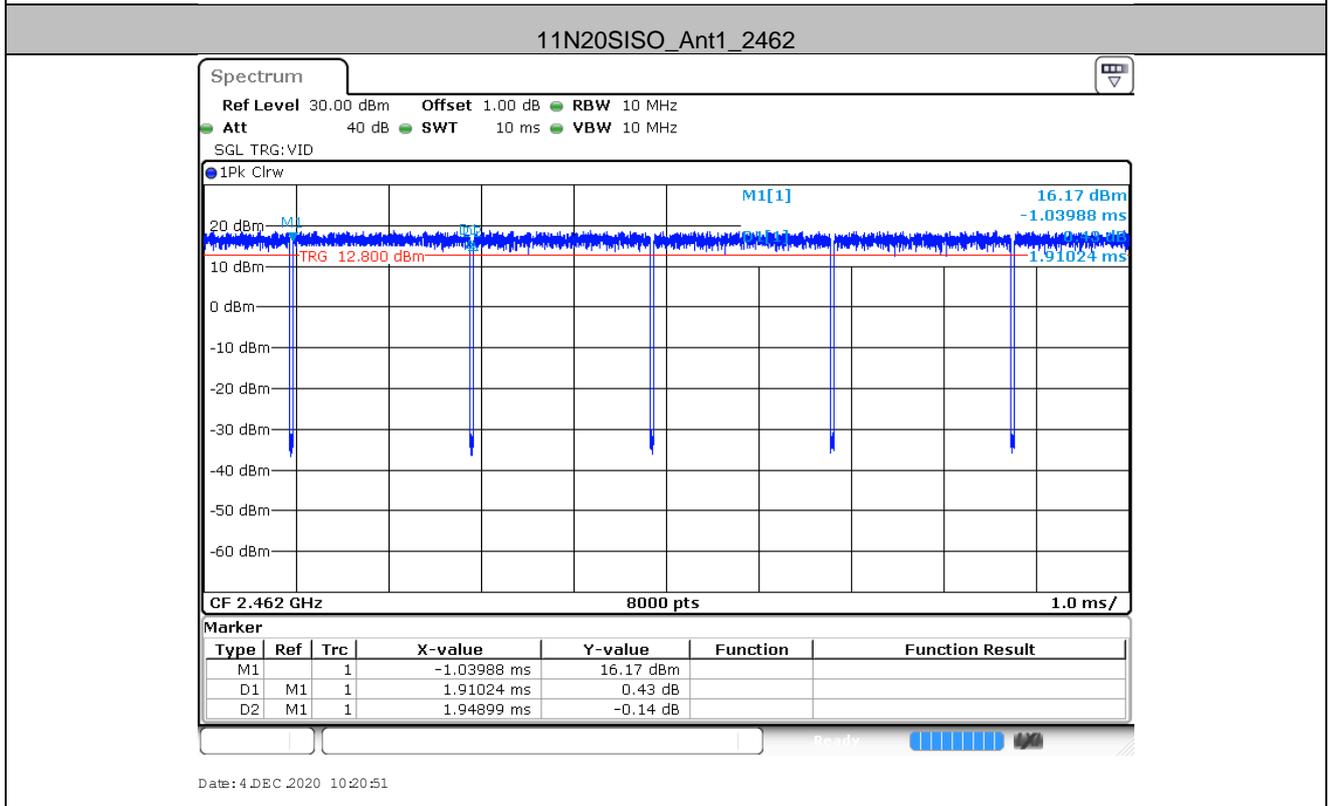
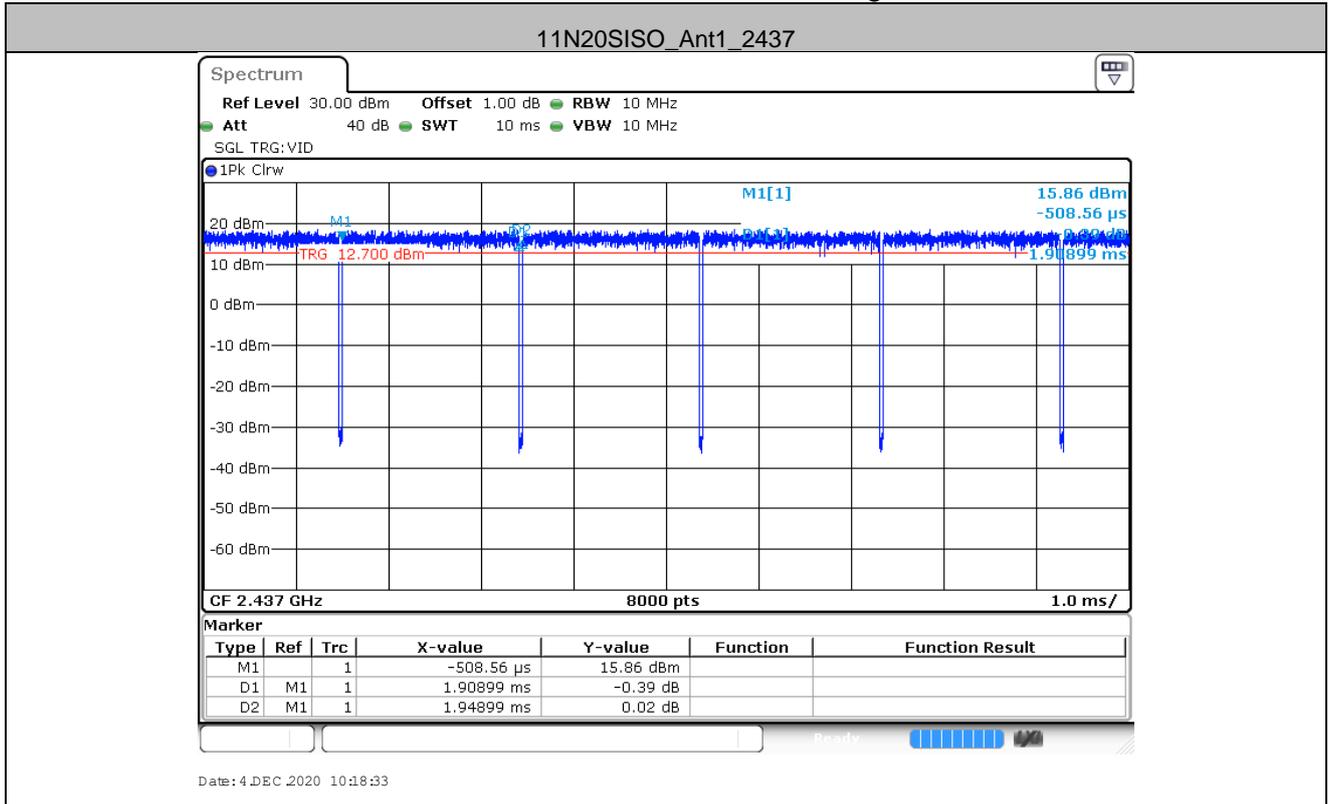
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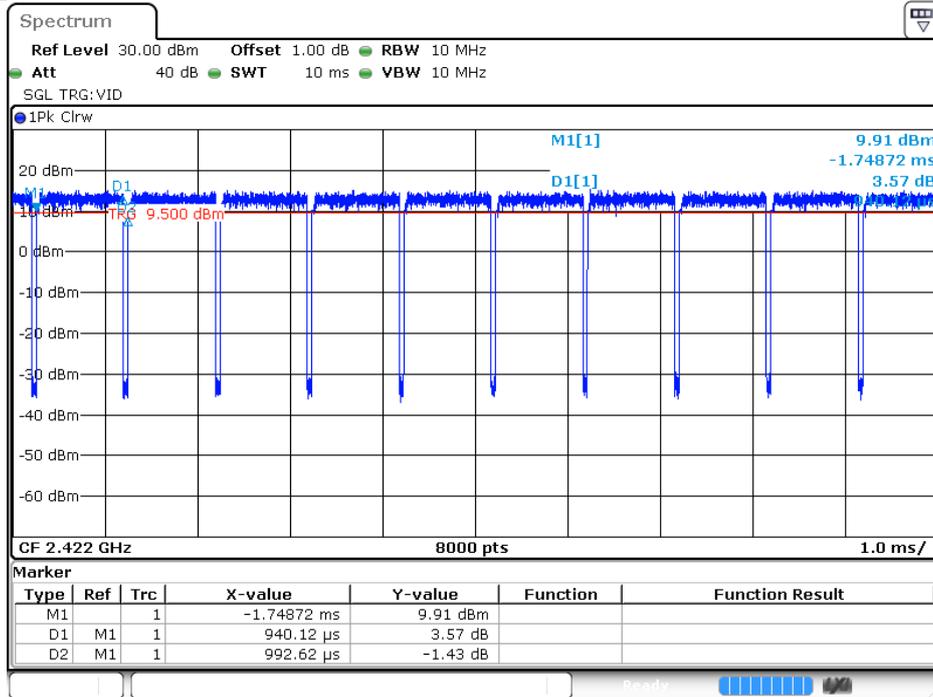
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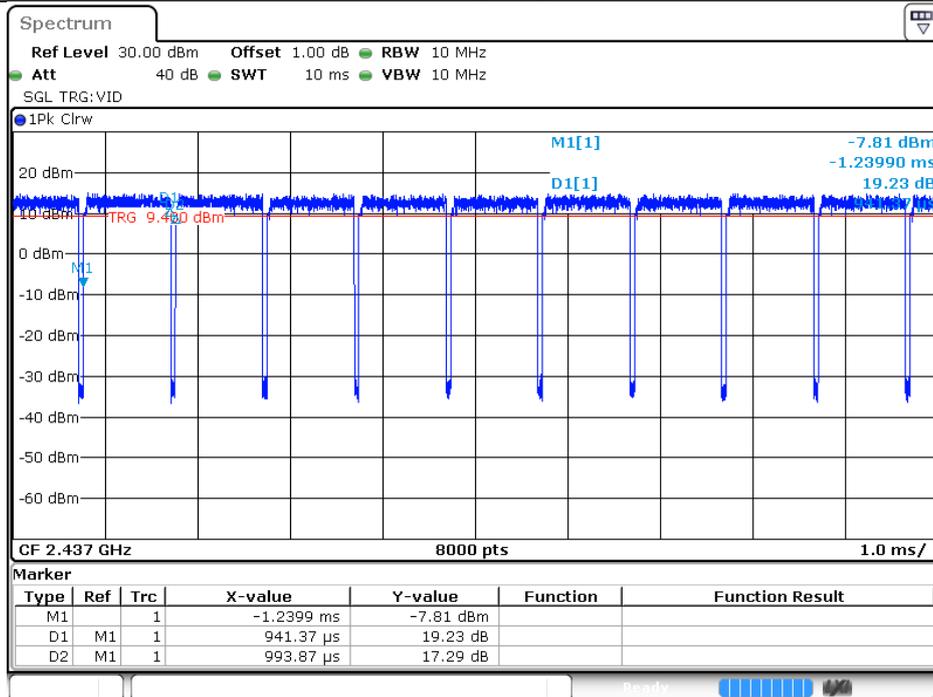
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### 11N40SISO\_Ant1\_2422



Date: 4 DEC 2020 10:24:46

### 11N40SISO\_Ant1\_2437

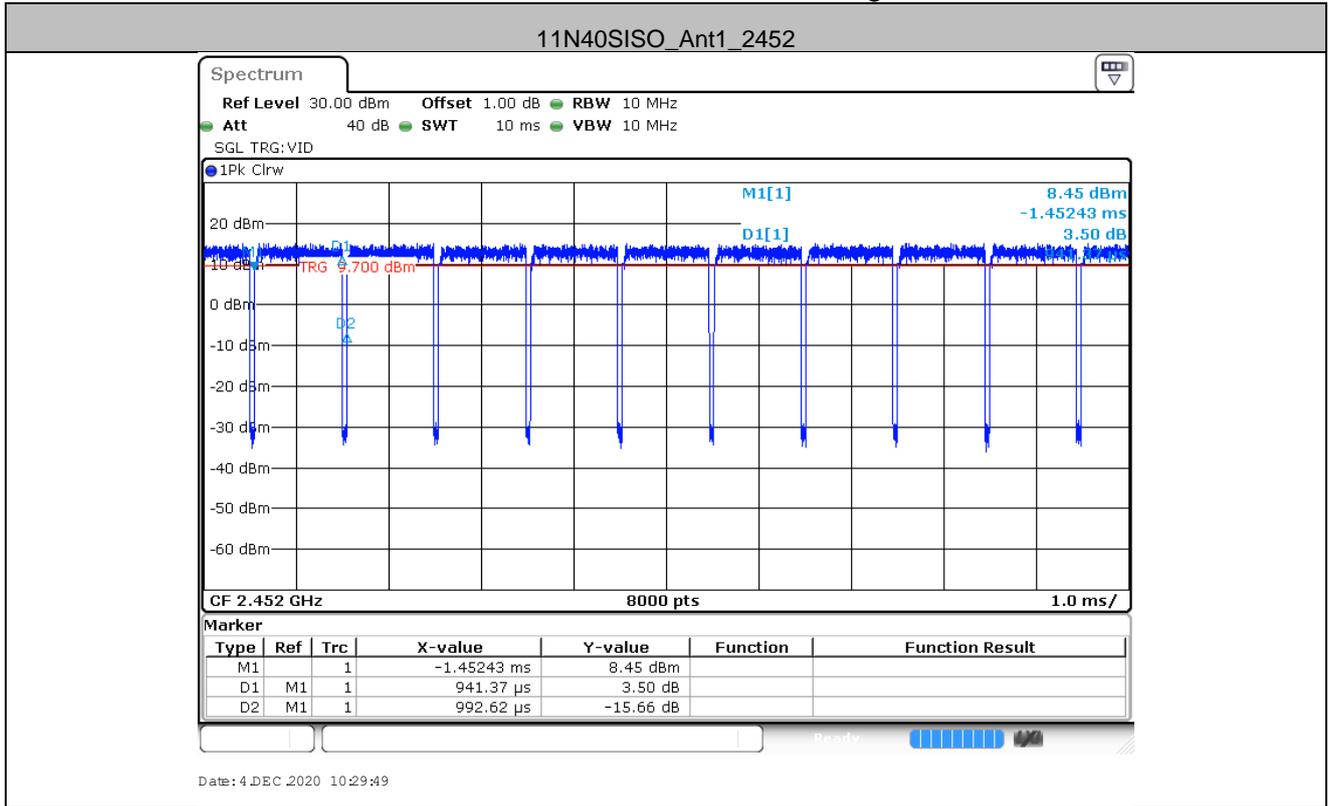


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