

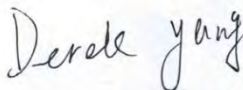
FCC TEST REPORT

Application No.: ZR/2021/40021
Applicant: HMD Global Oy
Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer: HMD Global Oy
Address of Manufacturer: Bertel Jungin aukio 9, 02600 Espoo, Finland
EUT Description: smart phone
Model No.: N1374DL
Trade Mark: Nokia
FCC ID: 2AJOTTA-1374
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2021/4/25
Date of Test: 2021/4/25 to 2021/5/28
Date of Issue: 2021/5/28

Test Result :	PASS *
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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		2021-05-28		Original

Authorized for issue by:		
Prepared By		 <hr/> (Dee Zheng) / Engineer
Checked By		 <hr/> (Jim Huang) / 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.

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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3 General Information

3.1 Details of Client

Applicant:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, 02600 Espoo, Finland

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, Swing Hu, Habit Zeng

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:	Leah Chen, Ken Liu, Andy Yao



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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.

• **FCC-Designation Number: CN1271.**



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3.4 General Description of EUT

EUT Description:	smart phone
Model No.:	N1374DL
Trade Mark:	Nokia
Hardware Version:	V1.0
Software Version:	02US_0_029
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:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N), <input checked="" type="checkbox"/> MIMO (for 802.11N): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-3.6dBi(Ant9);-2.3dBi(Ant10)

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

Standard requirement:	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 -3.6dBi(Ant9);-2.3dBi(Ant10).</p>	



4.2 AC Power Line Conducted Emissions

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



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

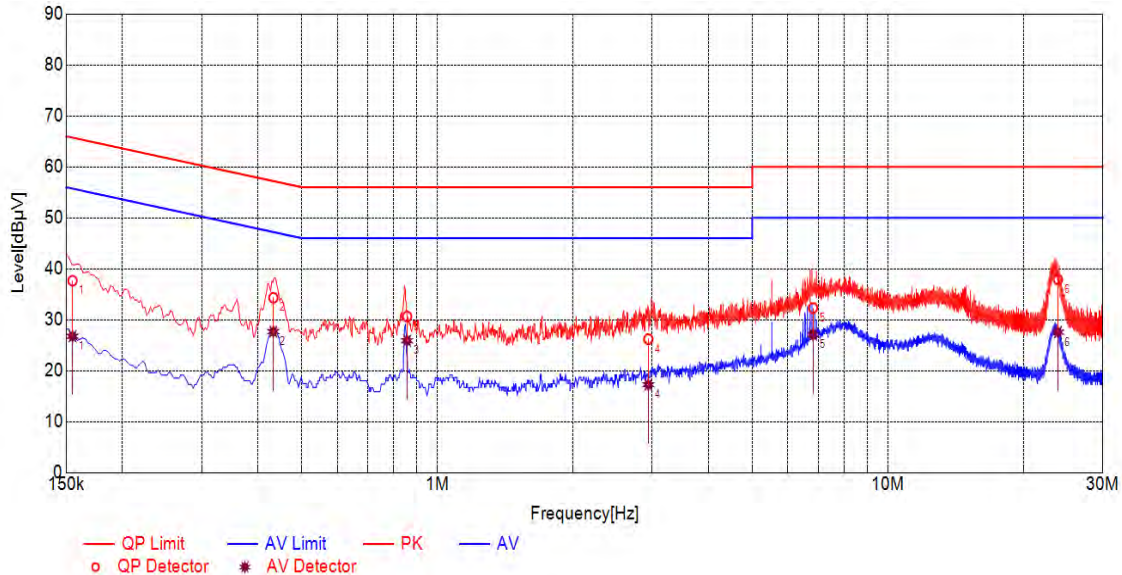


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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



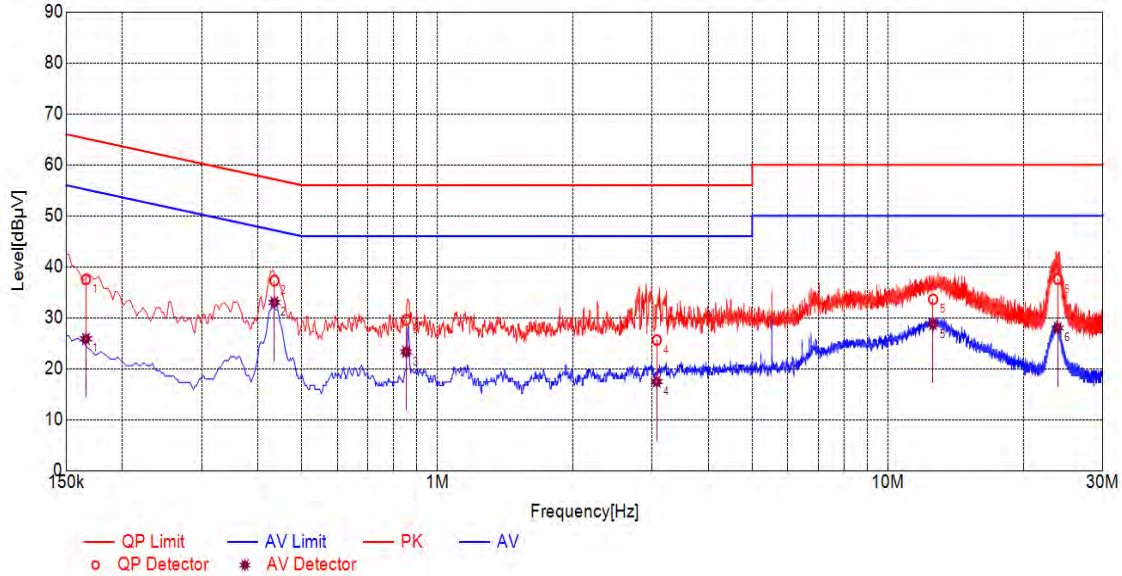
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1550	10.10	37.66	65.73	28.07	26.75	55.73	28.98
2	0.4325	10.10	34.33	57.20	22.87	27.67	47.20	19.53
3	0.8570	10.10	30.64	56.00	25.36	25.87	46.00	20.13
4	2.9397	10.10	26.20	56.00	29.80	17.25	46.00	28.75
5	6.8205	10.10	32.32	60.00	27.68	27.06	50.00	22.94
6	23.8503	10.11	37.90	60.00	22.10	27.56	50.00	22.44



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Neutral Line:



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]
1	0.1660	10.10	37.51	65.16	27.65	25.84	55.16	29.32
2	0.4348	10.10	37.28	57.16	19.88	33.01	47.16	14.15
3	0.8526	10.10	29.57	56.00	26.43	23.32	46.00	22.68
4	3.0702	10.10	25.62	56.00	30.38	17.47	46.00	28.53
5	12.6005	10.11	33.63	60.00	26.37	28.70	50.00	21.30
6	23.8370	10.11	37.55	60.00	22.45	27.98	50.00	22.02

Remark:

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

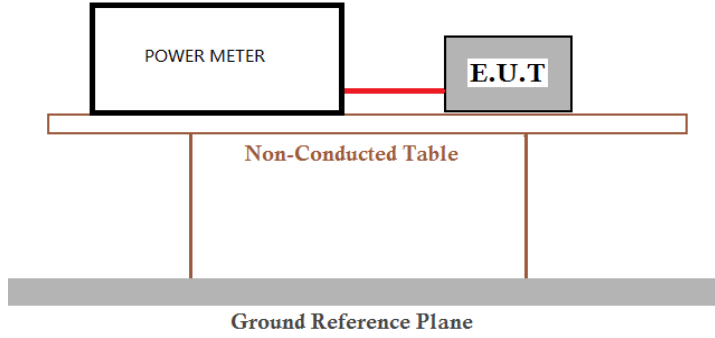


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4.3 Duty Cycle

The detailed test data see: **Appendix**

4.4 Conducted Output Power

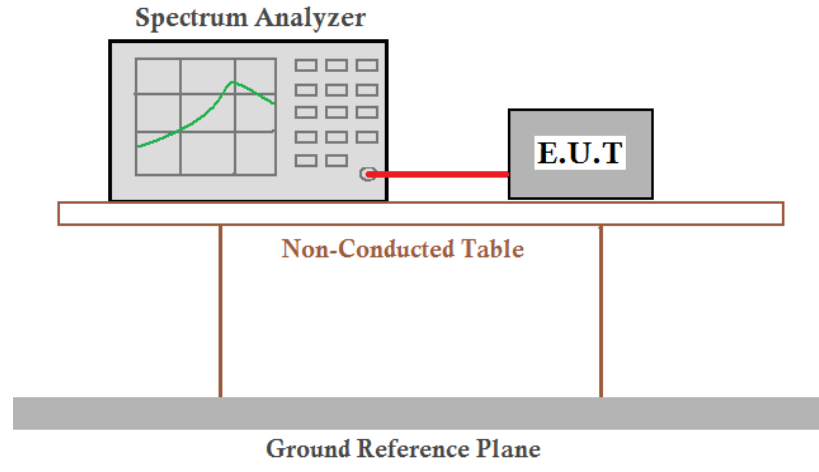
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate 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

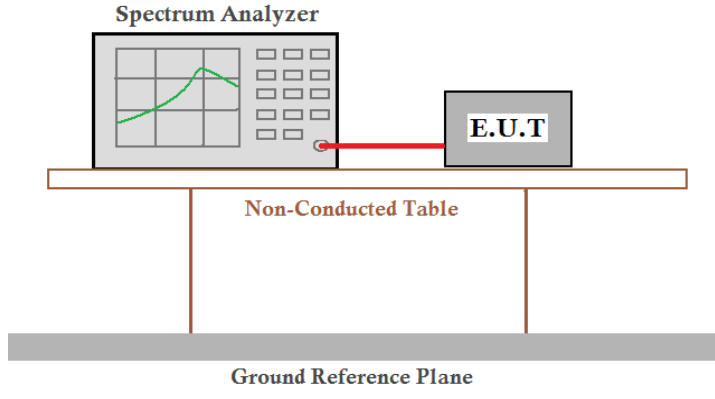
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of 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

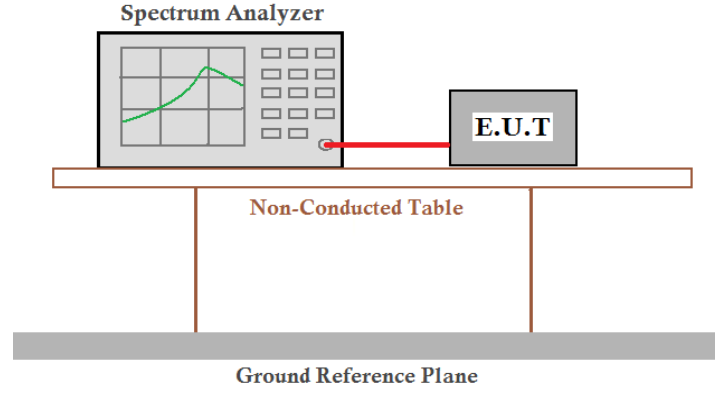
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the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

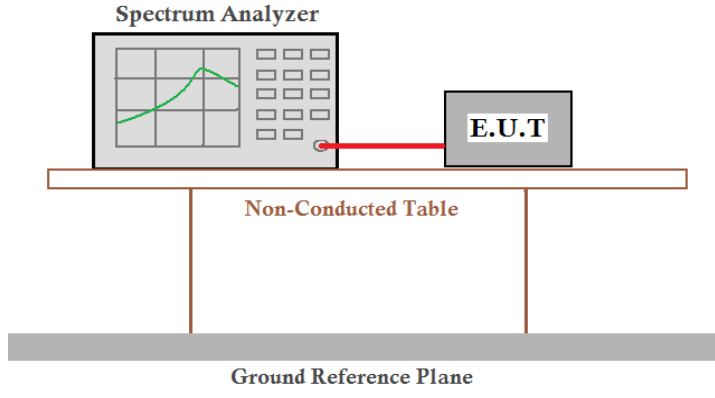
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the 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	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz (DC≥0.98) ≥1/T (DC<0.98)	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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<p>Test Setup:</p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. 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 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. 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. Use the following spectrum analyzer settings: <ol style="list-style-type: none"> Span shall wide enough to fully capture the emission being measured; Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds



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	<p>On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$</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>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 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.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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4.10 Restricted bands around fundamental frequency

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

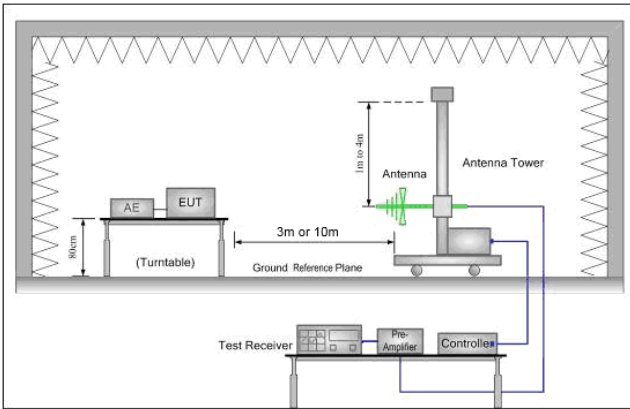


Figure 1. 30MHz to 1GHz

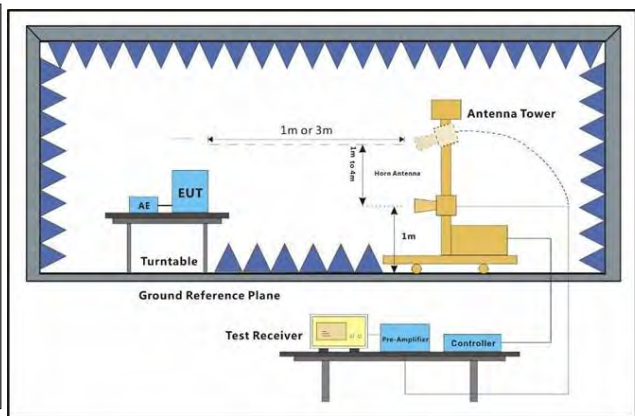


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. 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. 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. 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. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 h. Test the EUT in the lowest channel , the Highest channel 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. j. Repeat above procedures until all frequencies measured was complete.
<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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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 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 Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/4/14	2022/4/13
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2021/4/14	2022/4/13

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	2021-04-01	2022-03-31
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	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 Setup Photos.



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Appendix



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Radiated Spurious Emissions

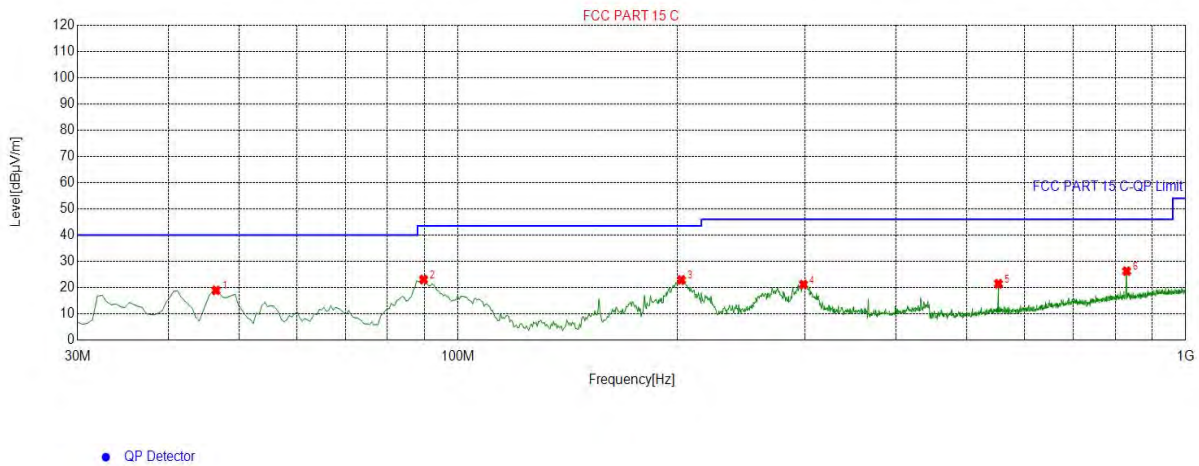
Radiated emission below 1GHz

Charge + Transmitting

Test Graph

Project Information			
EUT:		Model:	2.4G
SN:		Voltage:	
Mode:		State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	
Remark:			
Test Standard:			

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.4982	18.93	-21.39	40.00	21.07	157	225	Horizontal
2	89.6848	23.05	-24.58	43.50	20.45	198	264	Horizontal
3	202.746	22.90	-22.31	43.50	20.60	175	214	Horizontal
4	298.339	21.16	-19.41	46.00	24.84	184	61	Horizontal
5	553.091	21.45	-13.03	46.00	24.55	168	257	Horizontal
6	829.679	26.25	-8.70	46.00	19.75	241	296	Horizontal

Final Data List



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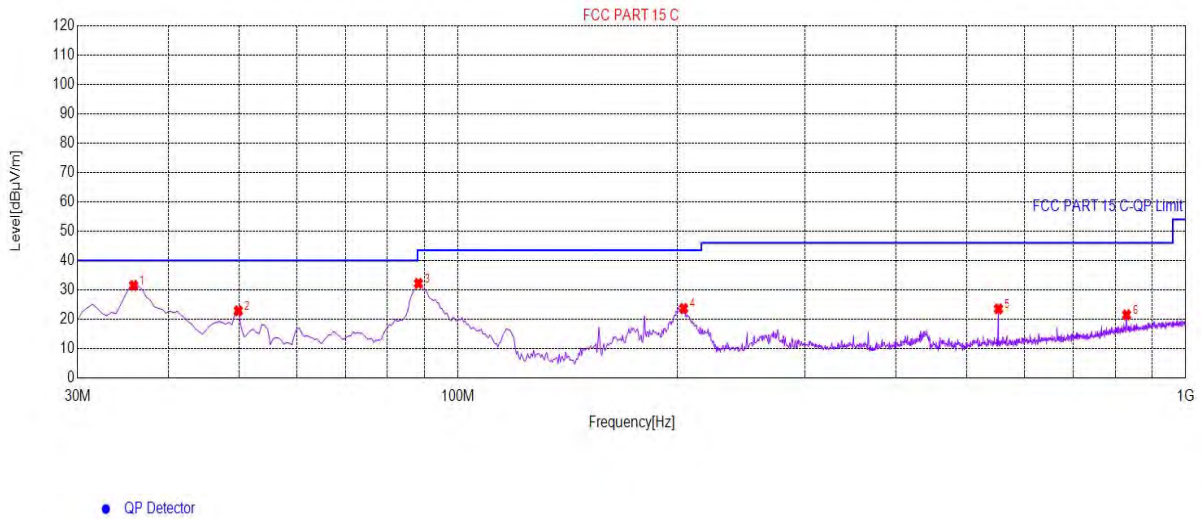
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 Shenzhen Branch, 300000 Shenzhen, P.R. China

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Test Report

Project Information			
EUT:		Model:	2.4G
SN:		Voltage:	
Mode:		State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	
Remark:			
Test Standard:			

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	31.47	-23.68	40.00	8.53	247	28	Vertical
2	49.8949	22.87	-21.36	40.00	17.13	198	349	Vertical
3	88.2291	32.20	-24.99	43.50	11.30	176	121	Vertical
4	204.202	23.66	-22.20	43.50	19.84	184	25	Vertical
5	553.091	23.51	-13.03	46.00	22.49	165	53	Vertical
6	829.679	21.49	-8.70	46.00	24.51	194	156	Vertical

Final Data List



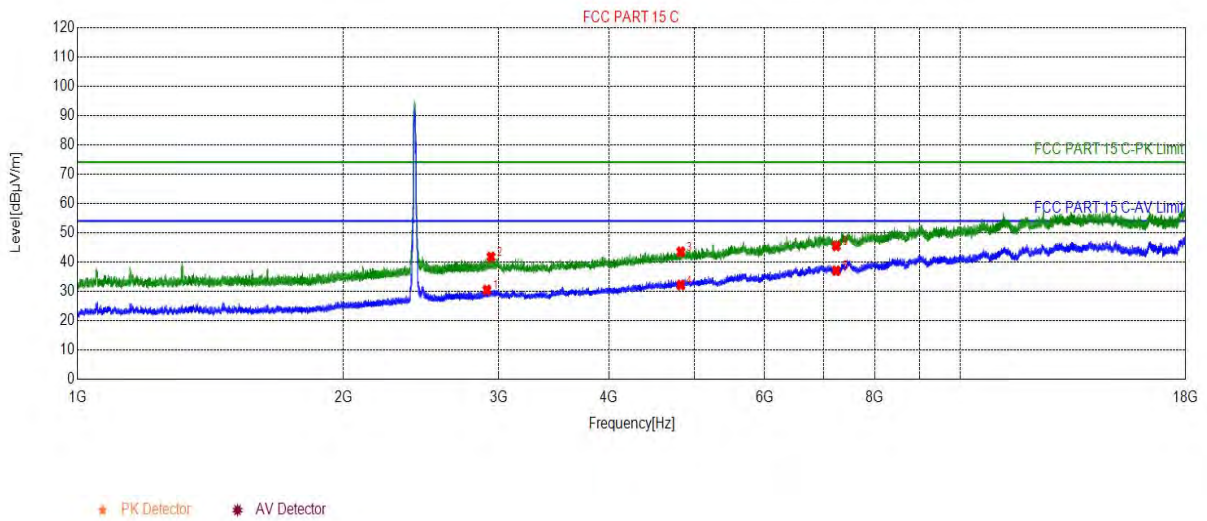
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Transmitter emission above 1GHz

802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2908.69	30.47	10.22	54.00	23.53	158	211	Horizontal
2	2940.49	41.74	10.51	74.00	32.26	174	1	Horizontal
3	4824.00	43.49	-15.31	74.00	30.51	165	143	Horizontal
4	4824.00	32.12	-15.31	54.00	21.88	198	259	Horizontal
5	7236.00	37.05	-8.82	54.00	16.95	174	55	Horizontal
6	7236.00	45.46	-8.82	74.00	28.54	251	317	Horizontal

Final Data List

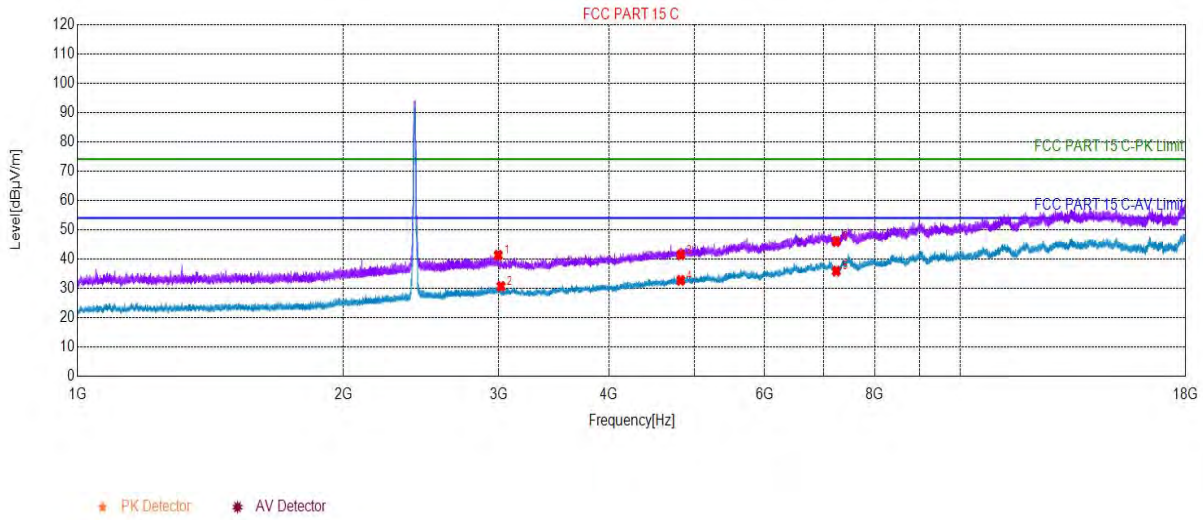


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802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.29	41.29	10.69	74.00	32.71	251	290	Vertical
2	3018.00	30.67	-21.14	54.00	23.33	141	333	Vertical
3	4824.00	41.44	-15.31	74.00	32.56	251	260	Vertical
4	4824.00	32.71	-15.31	54.00	21.29	298	27	Vertical
5	7236.00	35.88	-8.82	54.00	18.12	241	260	Vertical
6	7236.00	45.99	-8.82	74.00	28.01	265	70	Vertical

Final Data List

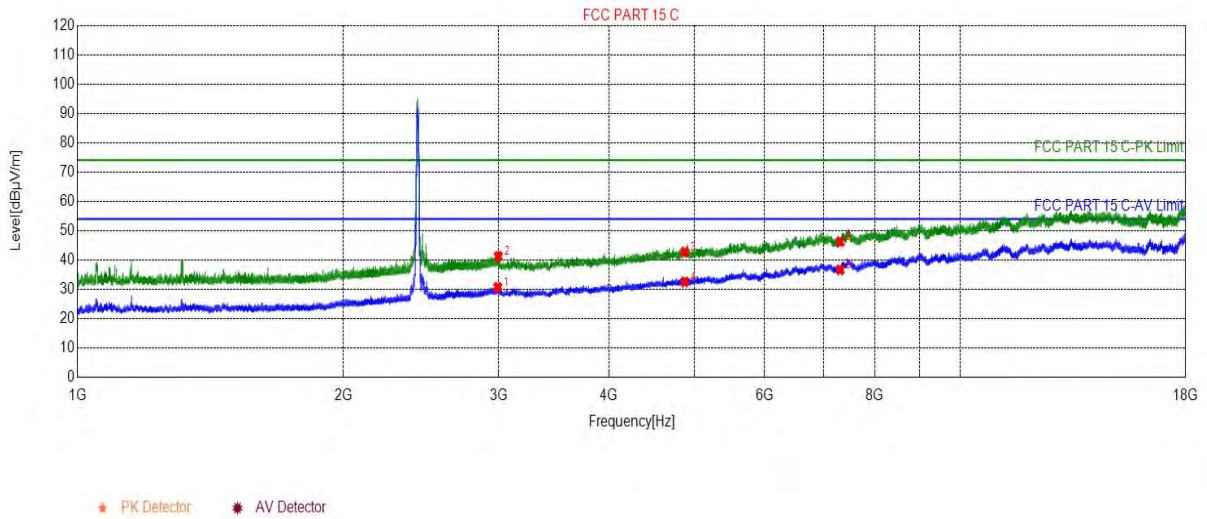


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802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2992.59	30.71	10.57	54.00	23.29	151	299	Horizontal
2	2996.49	41.25	10.70	74.00	32.75	174	313	Horizontal
3	4874.00	42.74	-15.09	74.00	31.26	198	263	Horizontal
4	4874.00	32.53	-15.09	54.00	21.47	241	145	Horizontal
5	7311.00	36.64	-8.93	54.00	17.36	231	248	Horizontal
6	7311.00	46.22	-8.93	74.00	27.78	321	130	Horizontal

Final Data List

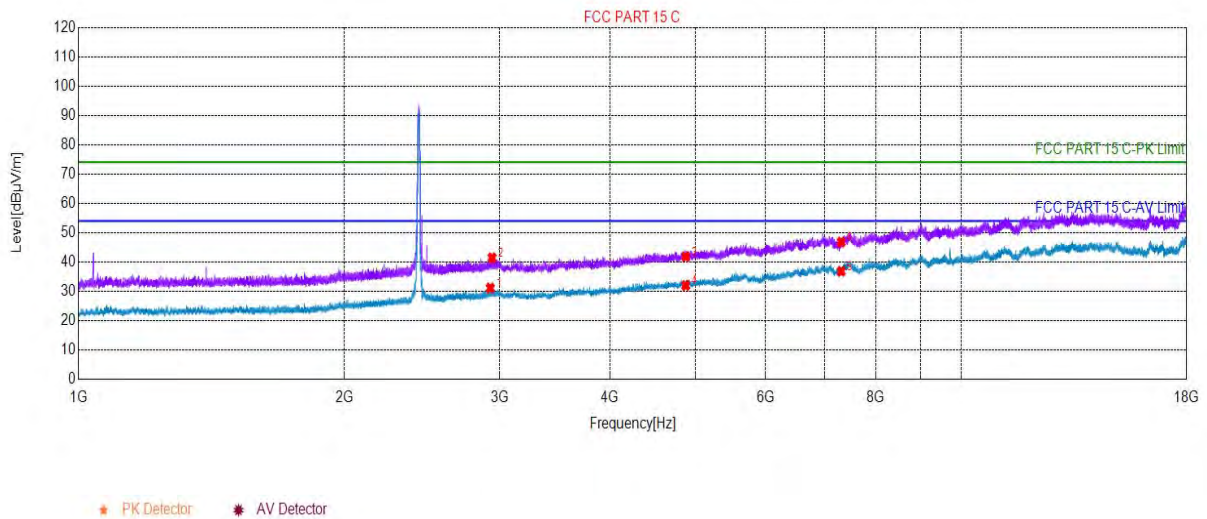


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802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.29	31.11	10.51	54.00	22.89	252	236	Vertical
2	2940.69	41.42	10.51	74.00	32.58	241	198	Vertical
3	4874.00	41.78	-15.09	74.00	32.22	287	186	Vertical
4	4874.00	31.99	-15.09	54.00	22.01	265	260	Vertical
5	7311.00	36.85	-8.93	54.00	17.15	241	302	Vertical
6	7311.00	46.80	-8.93	74.00	27.20	285	2	Vertical

Final Data List



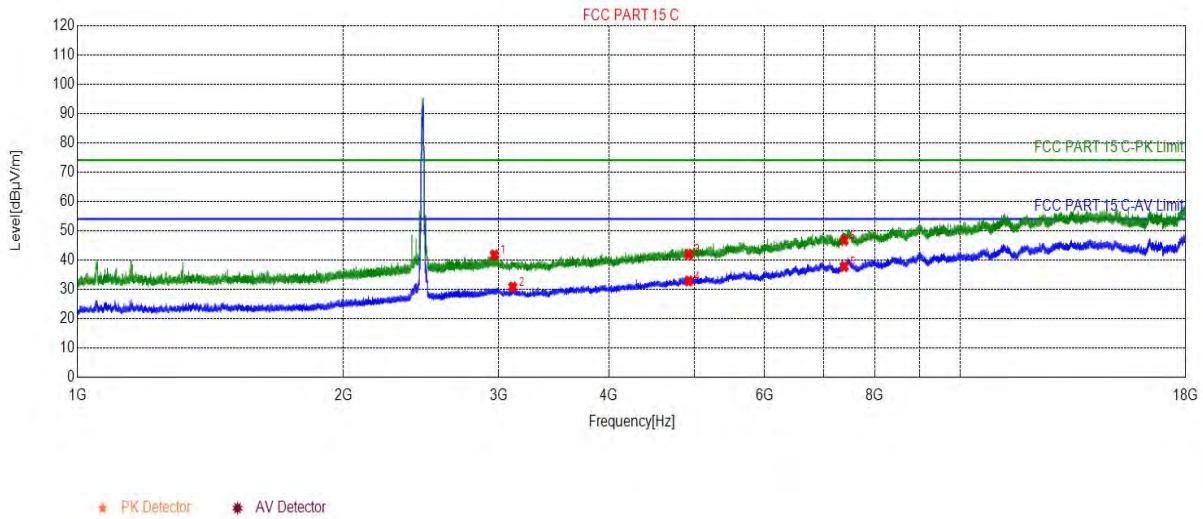
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802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.89	41.74	10.40	74.00	32.26	241	286	Horizontal
2	3111.60	30.80	-21.16	54.00	23.20	215	41	Horizontal
3	4924.00	41.89	-14.74	74.00	32.11	321	12	Horizontal
4	4924.00	32.84	-14.74	54.00	21.16	244	84	Horizontal
5	7386.00	37.75	-7.78	54.00	16.25	165	246	Horizontal
6	7386.00	46.67	-7.78	74.00	27.33	222	128	Horizontal

Final Data List

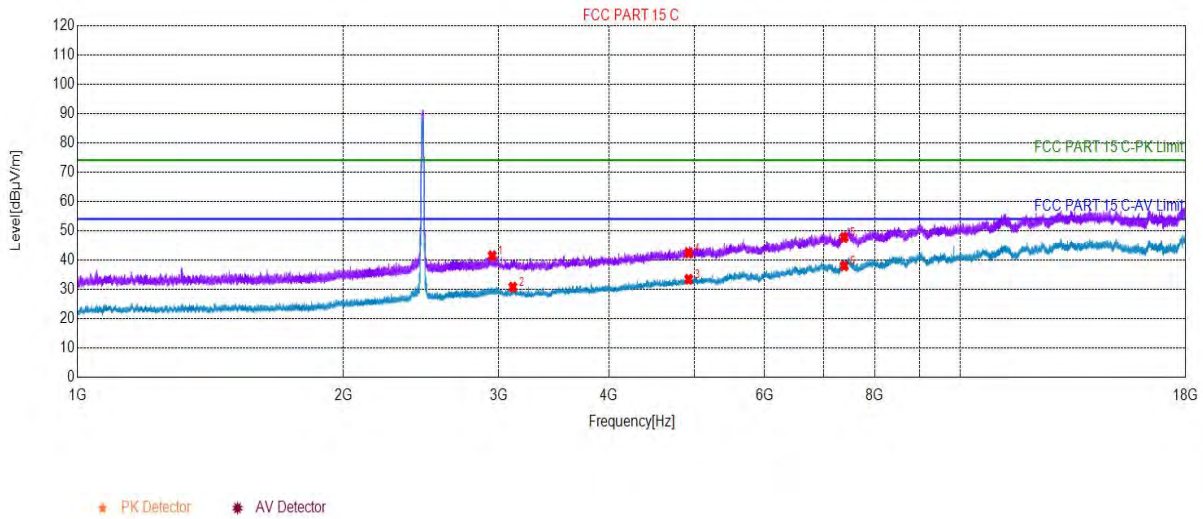


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802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.69	41.46	10.56	74.00	32.54	251	350	Vertical
2	3112.20	30.75	-21.15	54.00	23.25	285	216	Vertical
3	4924.00	33.45	-14.74	54.00	20.55	222	128	Vertical
4	4924.00	42.40	-14.74	74.00	31.60	236	216	Vertical
5	7386.00	47.65	-7.78	74.00	26.35	184	303	Vertical
6	7386.00	37.98	-7.78	54.00	16.02	198	158	Vertical

Final Data List

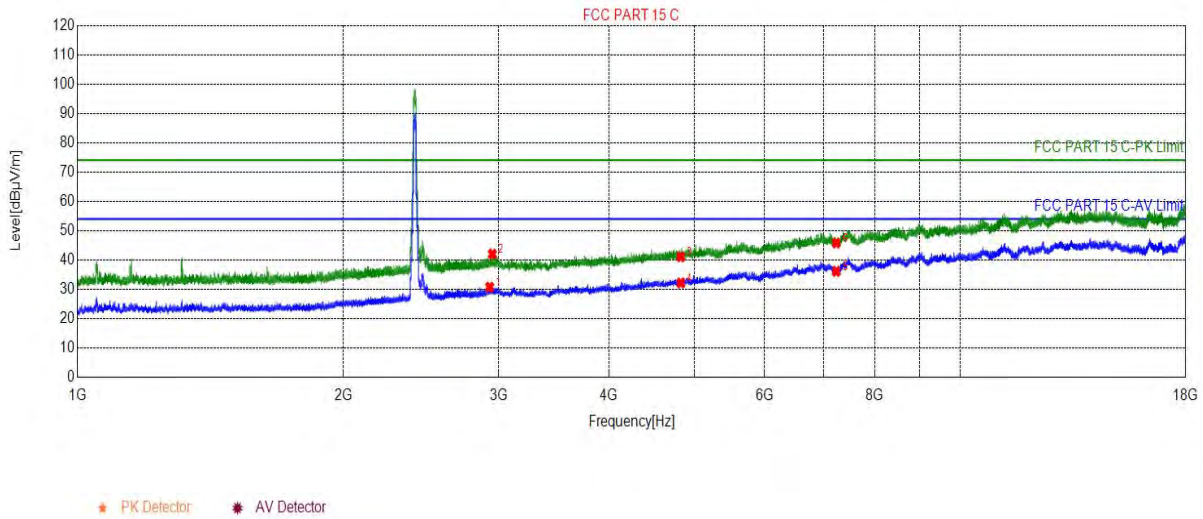


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802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2930.49	30.74	10.55	54.00	23.26	252	21	Horizontal
2	2950.69	42.01	10.56	74.00	31.99	241	1	Horizontal
3	4824.00	41.10	-15.31	74.00	32.90	265	85	Horizontal
4	4824.00	32.14	-15.31	54.00	21.86	241	175	Horizontal
5	7236.00	36.11	-8.82	54.00	17.89	189	359	Horizontal
6	7236.00	45.83	-8.82	74.00	28.17	187	27	Horizontal

Final Data List



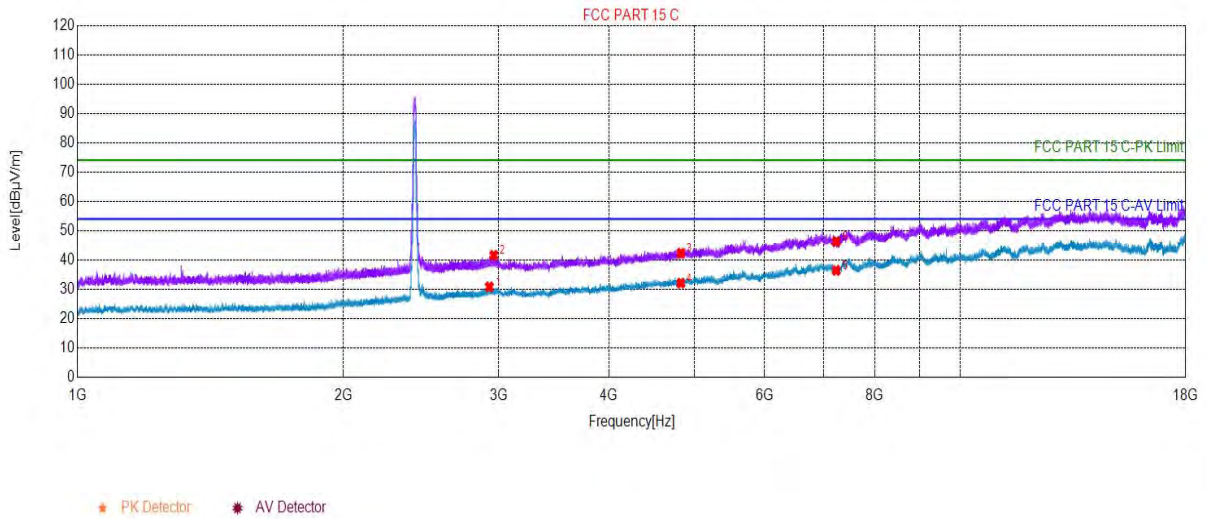
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802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2928.19	30.85	10.52	54.00	23.15	215	119	Vertical
2	2961.79	41.61	10.48	74.00	32.39	226	183	Vertical
3	4824.00	42.32	-15.31	74.00	31.68	239	26	Vertical
4	4824.00	32.11	-15.31	54.00	21.89	287	144	Vertical
5	7236.00	36.44	-8.82	54.00	17.56	147	202	Vertical
6	7236.00	46.30	-8.82	74.00	27.70	209	322	Vertical

Final Data List

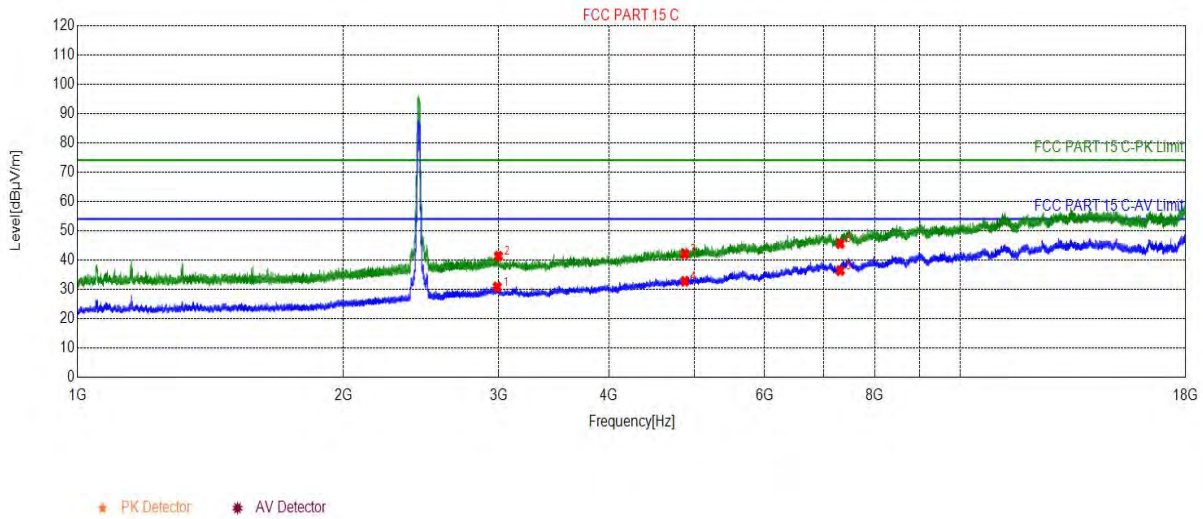


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802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.69	30.82	10.50	54.00	23.18	241	197	Horizontal
2	2997.79	41.28	10.74	74.00	32.72	189	197	Horizontal
3	4874.00	42.03	-15.09	74.00	31.97	174	2	Horizontal
4	4874.00	32.74	-15.09	54.00	21.26	165	158	Horizontal
5	7311.00	36.37	-8.93	54.00	17.63	184	129	Horizontal
6	7311.00	45.56	-8.93	74.00	28.44	165	187	Horizontal

Final Data List



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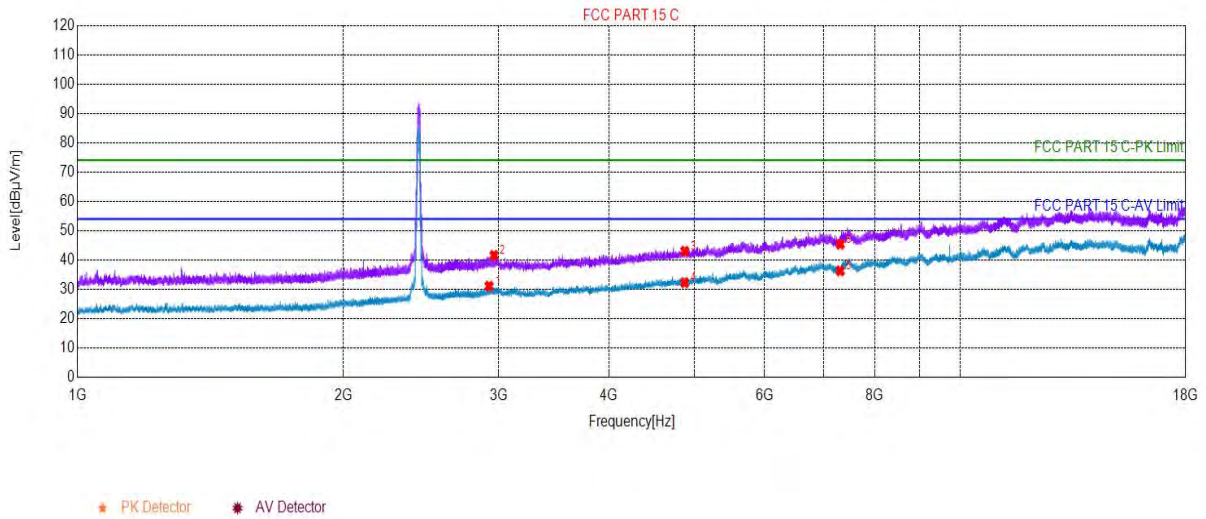
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802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.89	31.09	10.48	54.00	22.91	225	358	Vertical
2	2962.99	41.59	10.46	74.00	32.41	241	157	Vertical
3	4874.00	43.00	-15.09	74.00	31.00	185	85	Vertical
4	4874.00	32.25	-15.09	54.00	21.75	198	216	Vertical
5	7311.00	36.29	-8.93	54.00	17.71	147	289	Vertical
6	7311.00	45.38	-8.93	74.00	28.62	222	333	Vertical

Final Data List



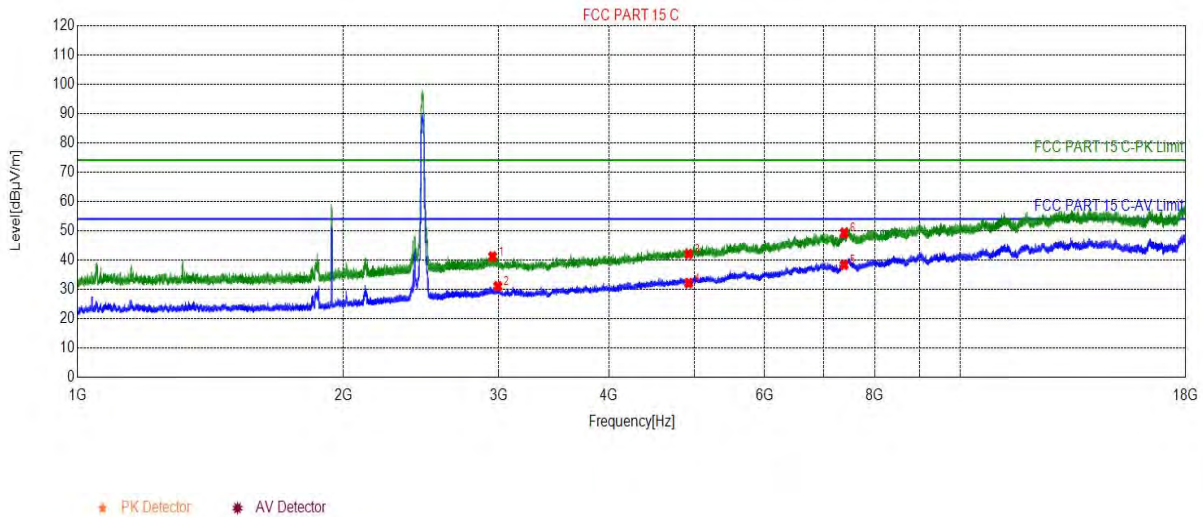
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802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2953.29	41.16	10.55	74.00	32.84	252	299	Horizontal
2	2993.69	31.01	10.61	54.00	22.99	174	338	Horizontal
3	4924.00	42.06	-14.74	74.00	31.94	165	235	Horizontal
4	4924.00	32.10	-14.74	54.00	21.90	184	2	Horizontal
5	7386.00	38.30	-7.78	54.00	15.70	178	27	Horizontal
6	7386.00	49.25	-7.78	74.00	24.75	198	27	Horizontal

Final Data List

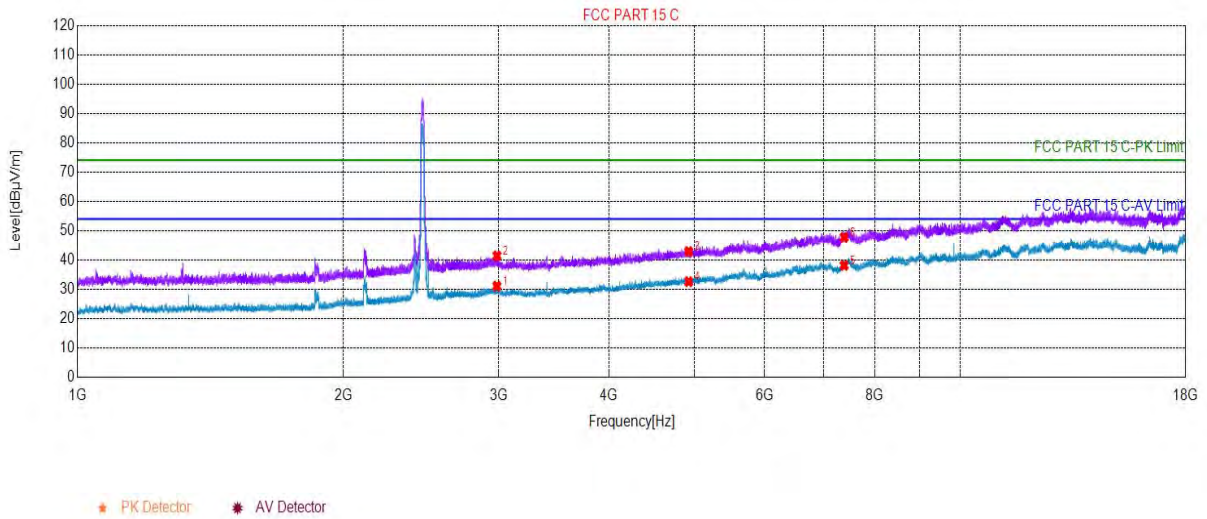


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802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2985.49	31.09	10.52	54.00	22.91	255	350	Vertical
2	2986.69	41.42	10.51	74.00	32.58	222	190	Vertical
3	4924.00	42.88	-14.74	74.00	31.12	187	259	Vertical
4	4924.00	32.60	-14.74	54.00	21.40	164	289	Vertical
5	7386.00	38.16	-7.78	54.00	15.84	198	40	Vertical
6	7386.00	47.71	-7.78	74.00	26.29	247	245	Vertical

Final Data List

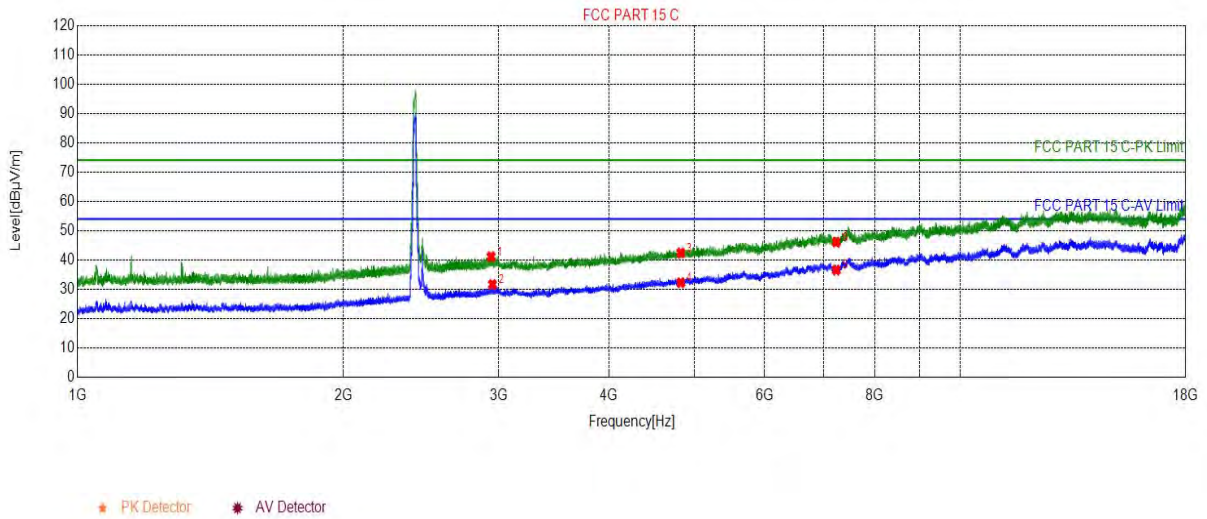


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802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.19	41.14	10.51	74.00	32.86	252	210	Horizontal
2	2951.39	31.66	10.56	54.00	22.34	274	160	Horizontal
3	4824.00	42.41	-15.31	74.00	31.59	165	289	Horizontal
4	4824.00	32.27	-15.31	54.00	21.73	184	12	Horizontal
5	7236.00	36.55	-8.82	54.00	17.45	195	12	Horizontal
6	7236.00	46.12	-8.82	74.00	27.88	224	332	Horizontal

Final Data List

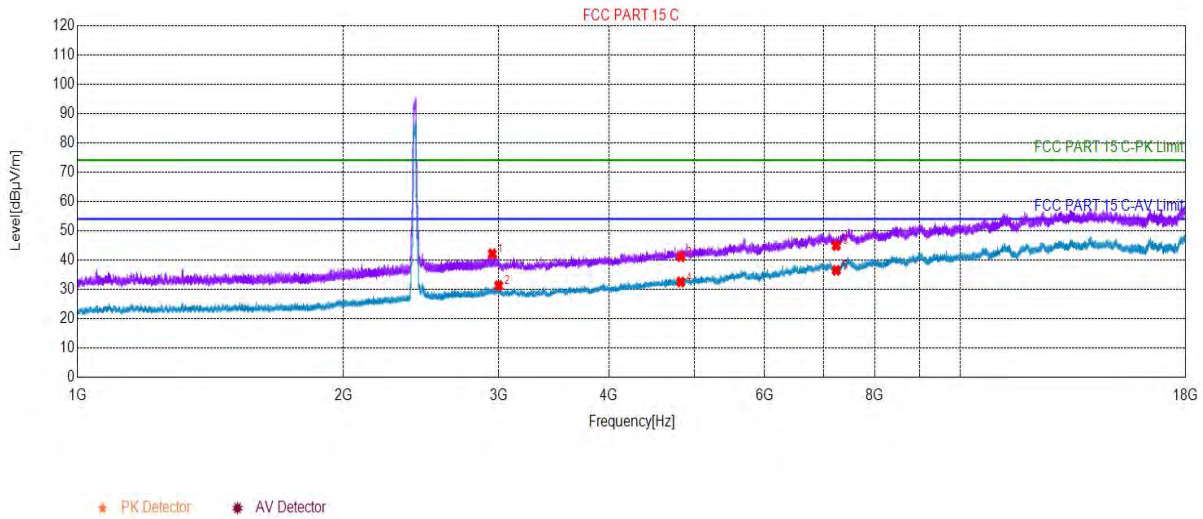


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802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.39	42.10	10.56	74.00	31.90	252	337	Vertical
2	2999.60	31.26	10.80	54.00	22.74	241	83	Vertical
3	4824.00	41.17	-15.31	74.00	32.83	265	85	Vertical
4	4824.00	32.50	-15.31	54.00	21.50	278	203	Vertical
5	7236.00	36.49	-8.82	54.00	17.51	123	332	Vertical
6	7236.00	44.96	-8.82	74.00	29.04	225	203	Vertical

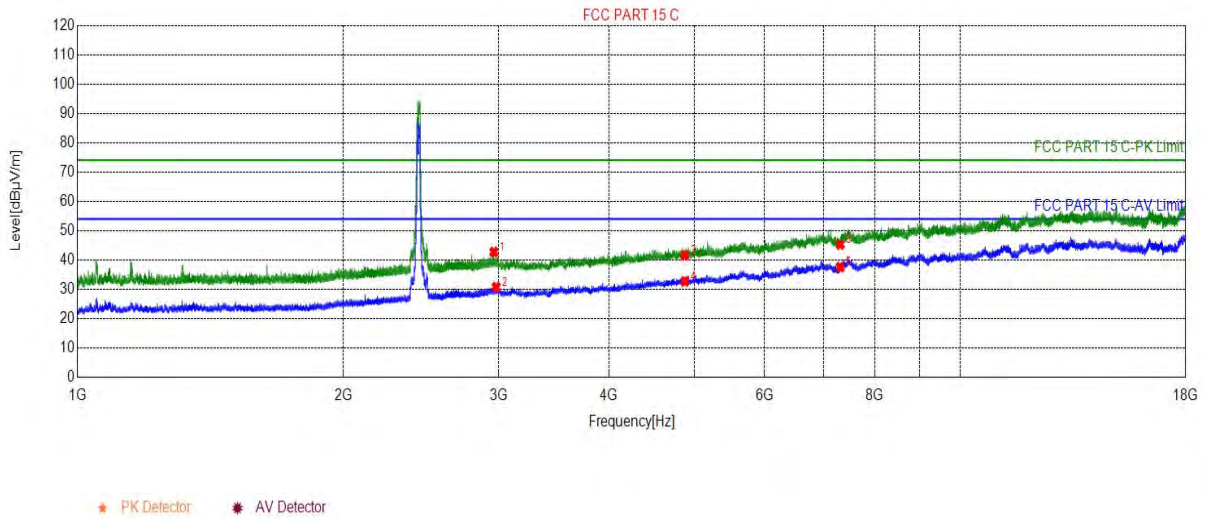
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802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.29	42.72	10.47	74.00	31.28	252	326	Horizontal
2	2980.59	30.75	10.54	54.00	23.25	241	313	Horizontal
3	4874.00	41.58	-15.09	74.00	32.42	247	70	Horizontal
4	4874.00	32.66	-15.09	54.00	21.34	158	158	Horizontal
5	7311.00	37.58	-8.93	54.00	16.42	222	99	Horizontal
6	7311.00	45.33	-8.93	74.00	28.67	369	56	Horizontal

Final Data List

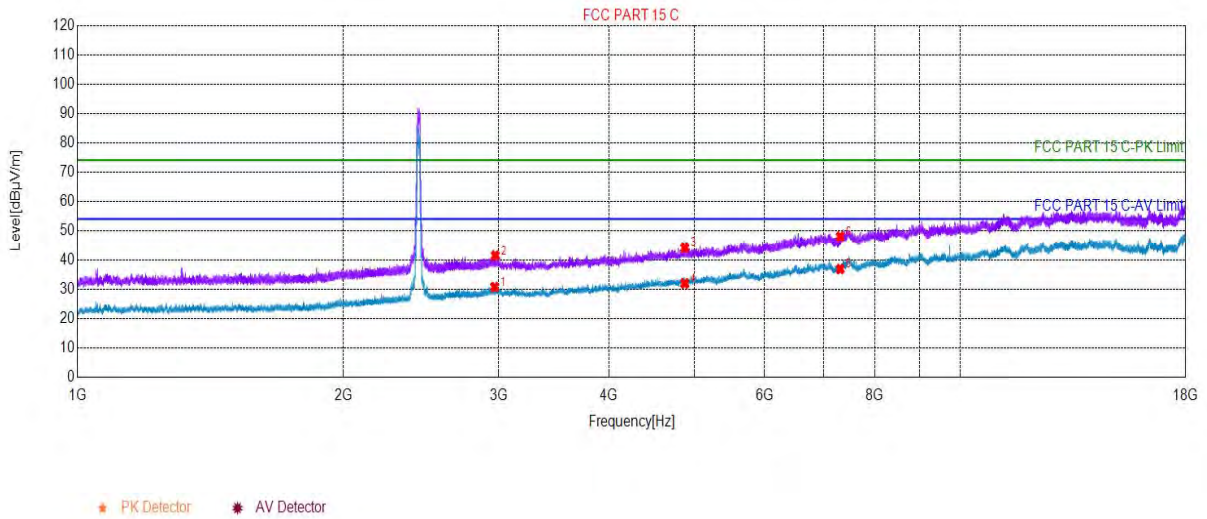


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802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.59	30.77	10.37	54.00	23.23	252	46	Vertical
2	2973.79	41.52	10.41	74.00	32.48	274	210	Vertical
3	4874.00	44.20	-15.09	74.00	29.80	265	289	Vertical
4	4874.00	31.96	-15.09	54.00	22.04	241	86	Vertical
5	7311.00	36.93	-8.93	54.00	17.07	287	70	Vertical
6	7311.00	47.94	-8.93	74.00	26.06	198	260	Vertical

Final Data List

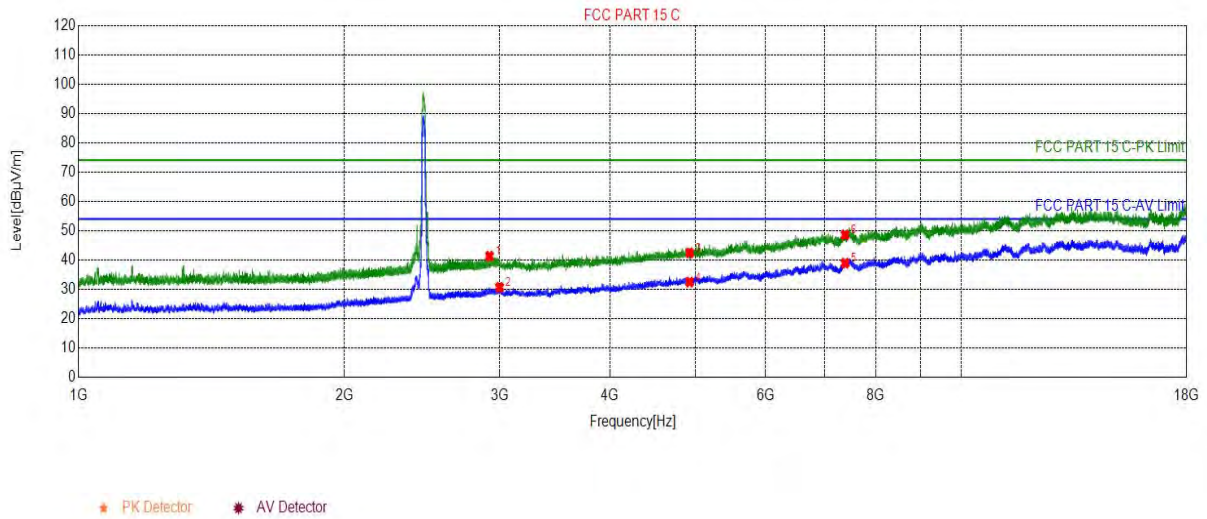


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802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.19	41.33	10.40	74.00	32.67	187	6	Horizontal
2	2998.39	30.69	10.76	54.00	23.31	198	82	Horizontal
3	4924.00	42.42	-14.74	74.00	31.58	184	71	Horizontal
4	4924.00	32.47	-14.74	54.00	21.53	167	231	Horizontal
5	7386.00	38.92	-7.78	54.00	15.08	149	100	Horizontal
6	7386.00	48.59	-7.78	74.00	25.41	187	71	Horizontal

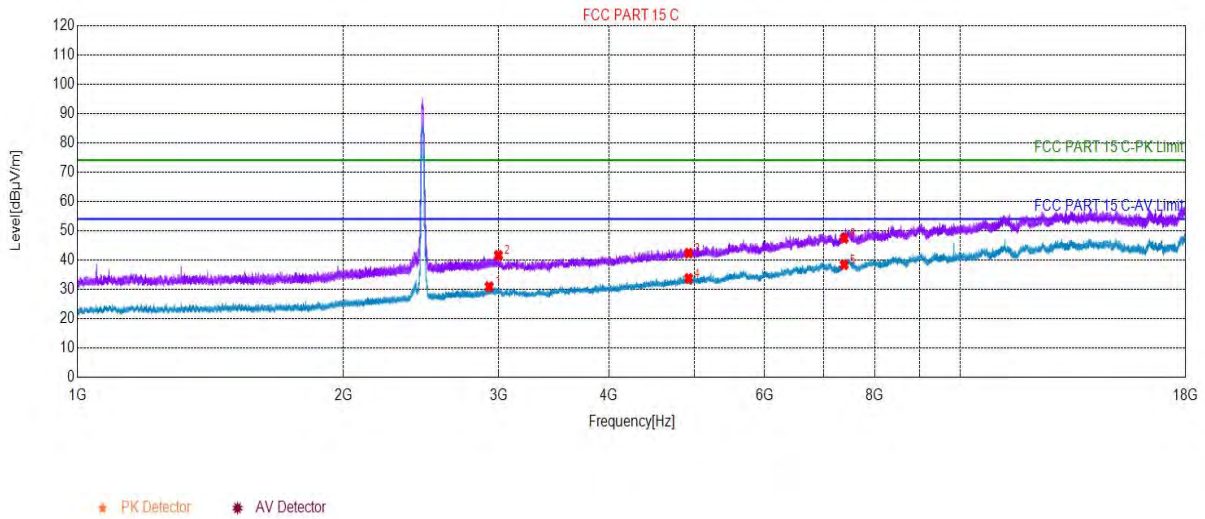
Final Data List



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802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.99	30.91	10.48	54.00	23.09	252	210	Vertical
2	2997.49	41.58	10.73	74.00	32.42	271	236	Vertical
3	4924.00	42.33	-14.74	74.00	31.67	265	246	Vertical
4	4924.00	33.74	-14.74	54.00	20.26	184	42	Vertical
5	7386.00	38.38	-7.78	54.00	15.62	174	276	Vertical
6	7386.00	47.38	-7.78	74.00	26.62	168	358	Vertical

Final Data List

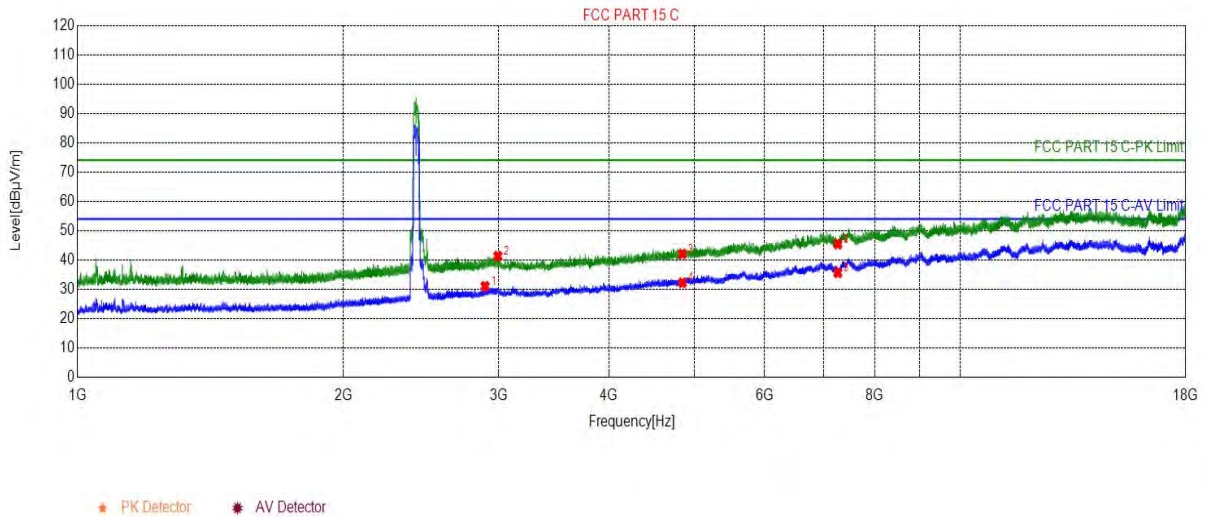


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802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2895.19	31.06	10.06	54.00	22.94	152	43	Horizontal
2	2993.79	41.33	10.61	74.00	32.67	174	43	Horizontal
3	4844.00	42.06	-15.21	74.00	31.94	198	143	Horizontal
4	4844.00	32.22	-15.21	54.00	21.78	174	129	Horizontal
5	7266.00	35.64	-9.04	54.00	18.36	258	274	Horizontal
6	7266.00	45.41	-9.04	74.00	28.59	241	245	Horizontal

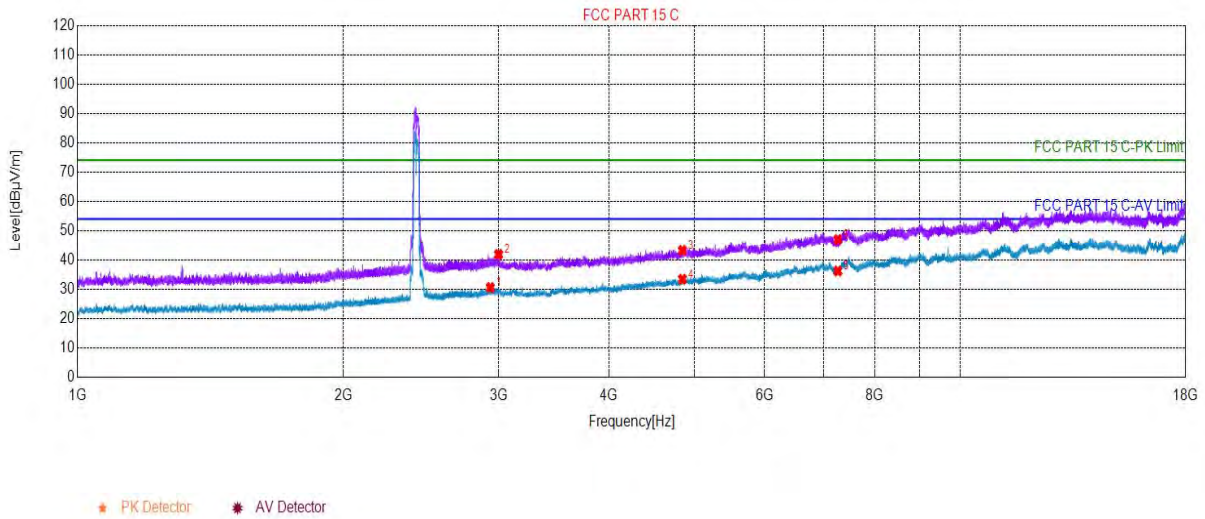
Final Data List



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802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2935.39	30.60	10.53	54.00	23.40	252	121	Vertical
2	2999.50	41.91	10.79	74.00	32.09	241	57	Vertical
3	4844.00	43.28	-15.21	74.00	30.72	174	27	Vertical
4	4844.00	33.45	-15.21	54.00	20.55	198	278	Vertical
5	7266.00	36.23	-9.04	54.00	17.77	175	262	Vertical
6	7266.00	46.95	-9.04	74.00	27.05	165	70	Vertical

Final Data List

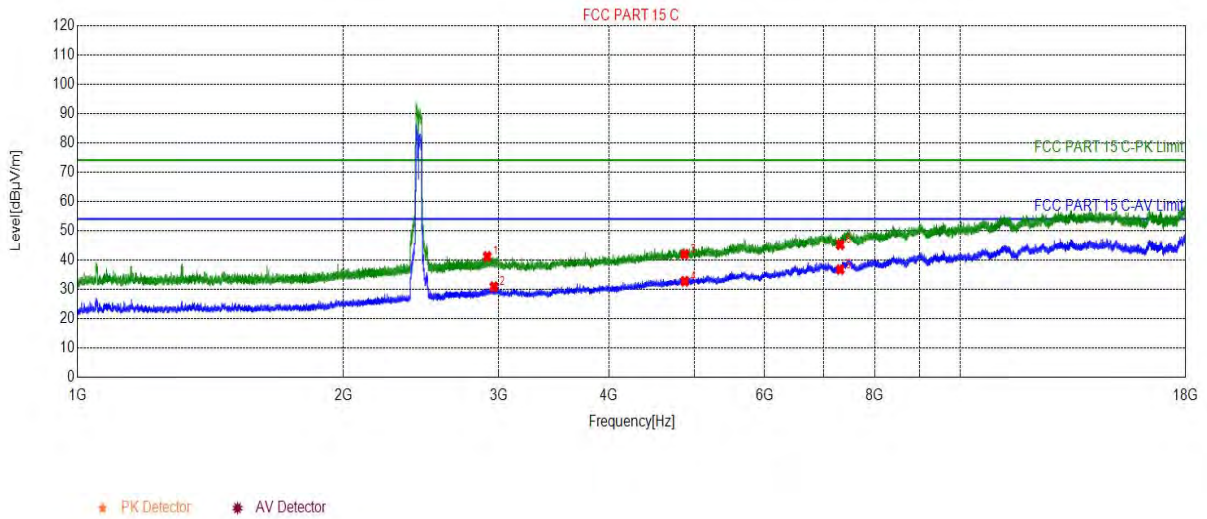


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802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2911.79	41.21	10.26	74.00	32.79	187	210	Horizontal
2	2963.19	30.88	10.46	54.00	23.12	154	122	Horizontal
3	4874.00	41.94	-15.09	74.00	32.06	165	100	Horizontal
4	4874.00	32.75	-15.09	54.00	21.25	174	159	Horizontal
5	7311.00	36.76	-8.93	54.00	17.24	152	188	Horizontal
6	7311.00	45.23	-8.93	74.00	28.77	222	261	Horizontal

Final Data List

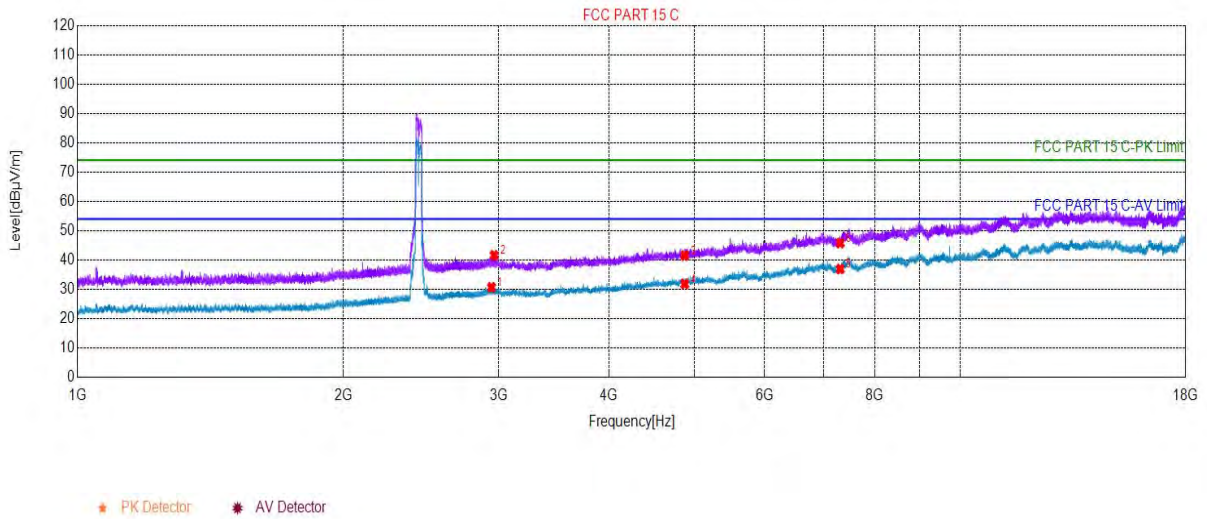


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802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.29	30.67	10.53	54.00	23.33	252	72	Vertical
2	2964.19	41.59	10.44	74.00	32.41	174	312	Vertical
3	4874.00	41.52	-15.09	74.00	32.48	198	304	Vertical
4	4874.00	31.83	-15.09	54.00	22.17	148	2	Vertical
5	7311.00	36.93	-8.93	54.00	17.07	254	245	Vertical
6	7311.00	45.77	-8.93	74.00	28.23	263	245	Vertical

Final Data List

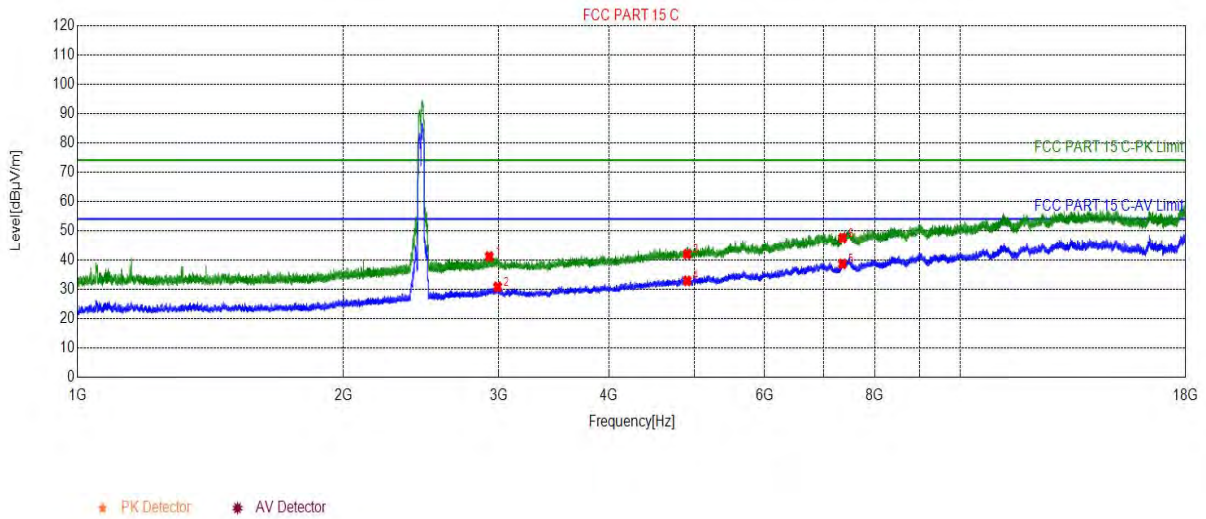


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802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.29	41.18	10.51	74.00	32.82	184	350	Horizontal
2	2991.49	30.83	10.54	54.00	23.17	174	71	Horizontal
3	4904.00	41.98	-14.95	74.00	32.02	195	306	Horizontal
4	4904.00	32.89	-14.95	54.00	21.11	222	203	Horizontal
5	7356.00	38.65	-7.68	54.00	15.35	174	143	Horizontal
6	7356.00	47.46	-7.68	74.00	26.54	236	100	Horizontal

Final Data List

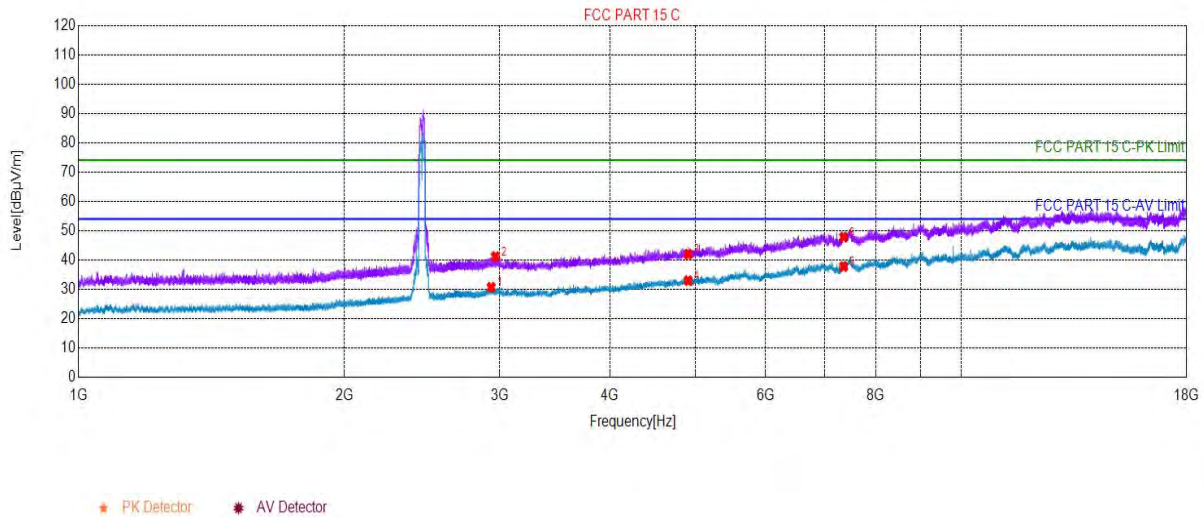


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802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.19	30.69	10.53	54.00	23.31	254	132	Vertical
2	2966.59	41.15	10.39	74.00	32.85	174	221	Vertical
3	4904.00	41.98	-14.95	74.00	32.02	198	70	Vertical
4	4904.00	32.98	-14.95	54.00	21.02	165	41	Vertical
5	7356.00	37.75	-7.68	54.00	16.25	225	41	Vertical
6	7356.00	47.81	-7.68	74.00	26.19	178	359	Vertical

Final Data List



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Remark:

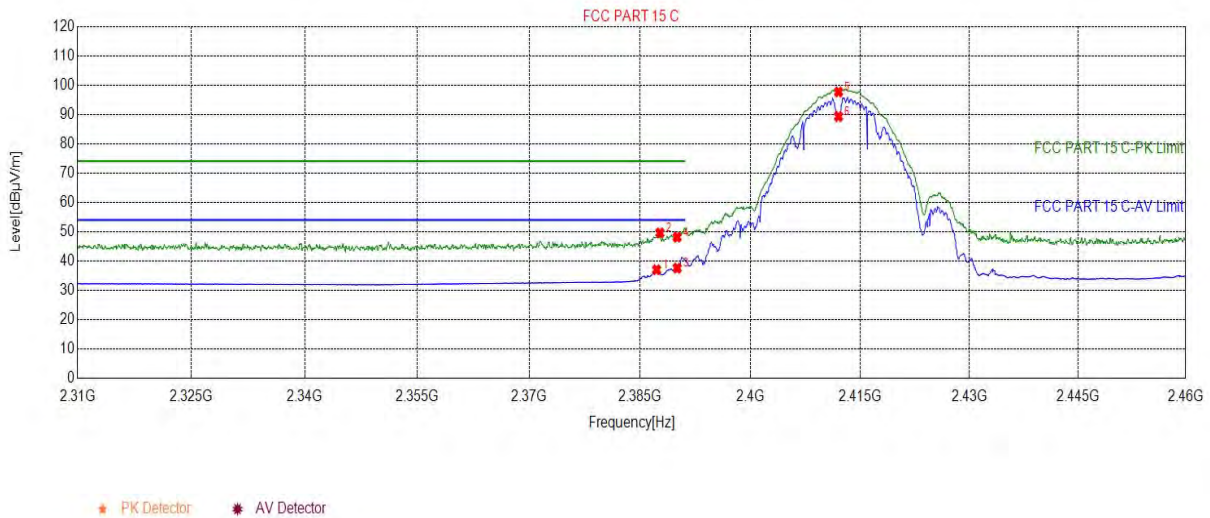
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz 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.



Restricted bands around fundamental frequency

802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.21	36.99	9.53	54.00	17.01	178	4	Horizontal
2	2387.66	49.59	9.54	74.00	24.41	195	125	Horizontal
3	2390.00	37.57	9.60	54.00	16.43	164	326	Horizontal
4	2390.00	48.13	9.60	74.00	25.87	123	228	Horizontal
5	2412.00	97.65	9.85	0.00	-97.65	189	25	Horizontal
6	2412.00	89.28	9.85	0.00	-89.28	180	198	Horizontal

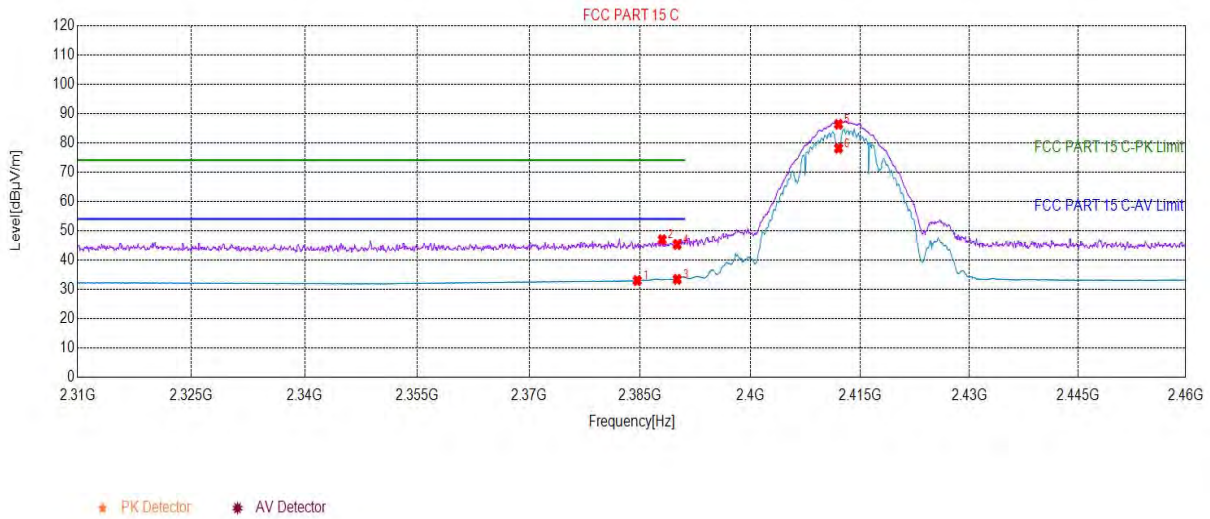
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802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.58	33.00	9.46	54.00	21.00	187	241	Vertical
2	2387.96	46.95	9.55	74.00	27.05	157	256	Vertical
3	2390.00	33.41	9.60	54.00	20.59	174	239	Vertical
4	2390.00	45.28	9.60	74.00	28.72	164	355	Vertical
5	2412.00	86.27	9.85	0.00	-86.27	181	247	Vertical
6	2412.00	78.10	9.85	0.00	-78.10	195	8	Vertical

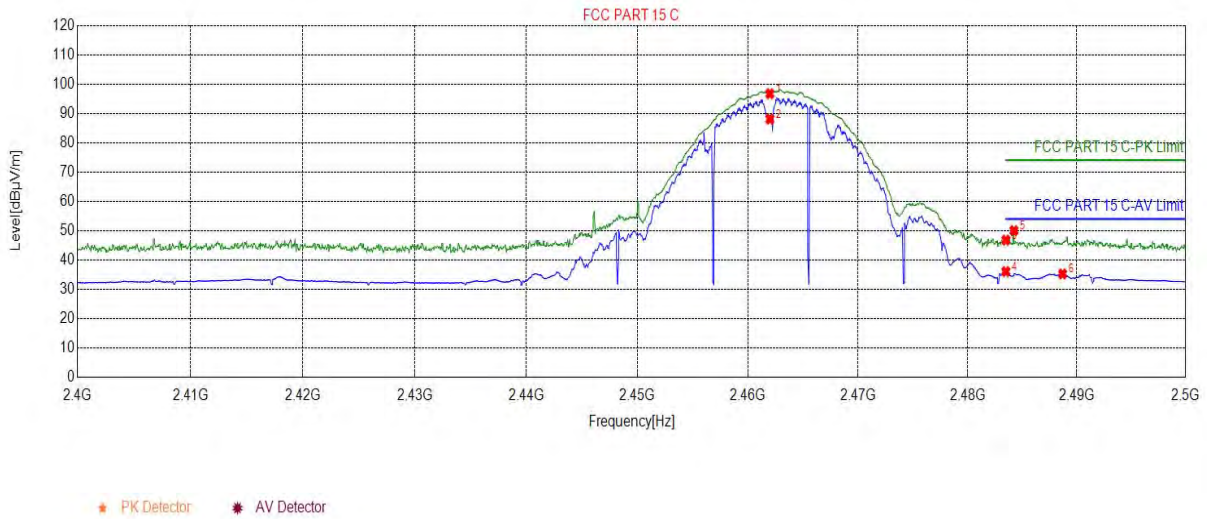
Final Data List



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802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.69	8.25	0.00	-96.69	198	125	Horizontal
2	2462.00	88.05	8.25	0.00	-88.05	175	263	Horizontal
3	2483.50	46.78	8.48	74.00	27.22	164	2	Horizontal
4	2483.50	36.04	8.48	54.00	17.96	162	178	Horizontal
5	2484.24	50.01	8.49	74.00	23.99	177	195	Horizontal
6	2488.69	35.24	8.50	54.00	18.76	189	66	Horizontal

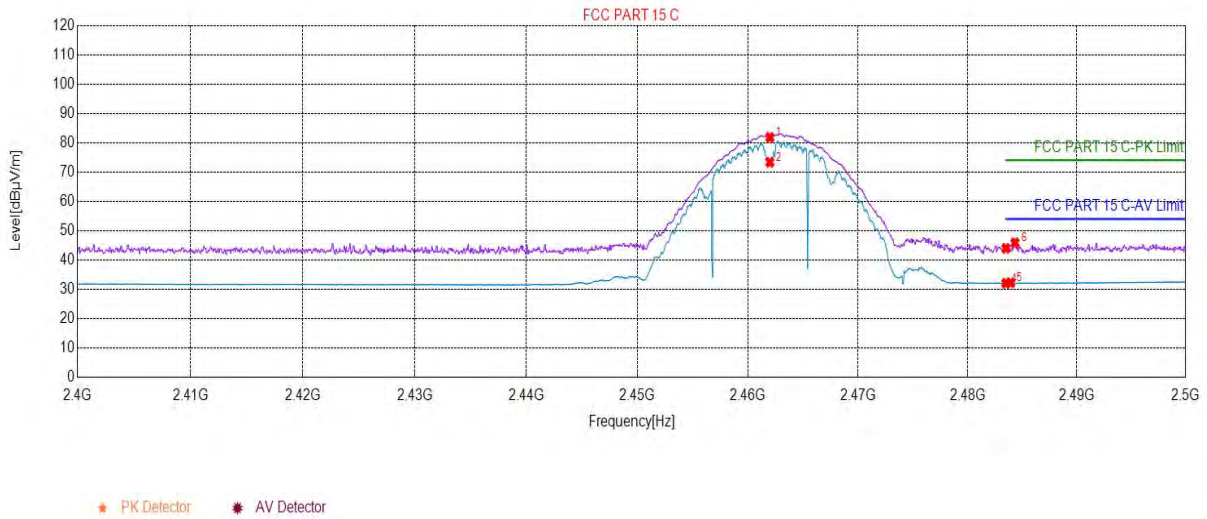
Final Data List



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802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	81.83	8.25	0.00	-81.83	180	28	Vertical
2	2462.00	73.34	8.25	0.00	-73.34	199	156	Vertical
3	2483.50	43.96	8.48	74.00	30.04	215	194	Vertical
4	2483.50	32.05	8.48	54.00	21.95	247	215	Vertical
5	2483.94	32.23	8.49	54.00	21.77	167	226	Vertical
6	2484.34	45.86	8.49	74.00	28.14	182	178	Vertical

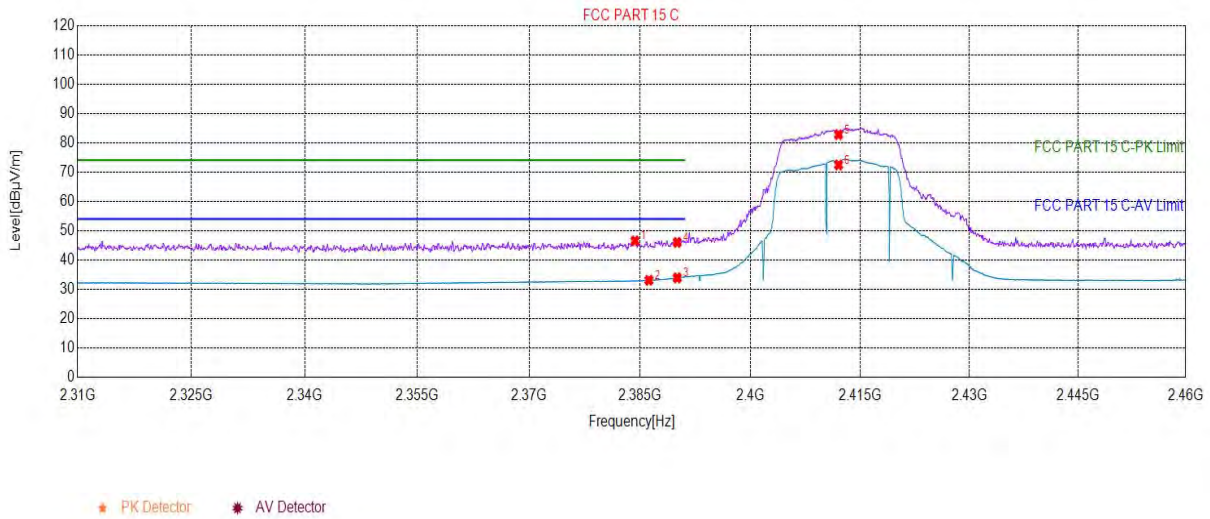
Final Data List



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802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.28	46.54	9.45	74.00	27.46	187	125	Vertical
2	2386.16	33.10	9.50	54.00	20.90	195	163	Vertical
3	2390.00	33.91	9.60	54.00	20.09	164	187	Vertical
4	2390.00	46.00	9.60	74.00	28.00	157	194	Vertical
5	2412.00	82.76	9.85	0.00	-82.76	188	155	Vertical
6	2412.00	72.43	9.85	0.00	-72.43	172	5	Vertical

Final Data List

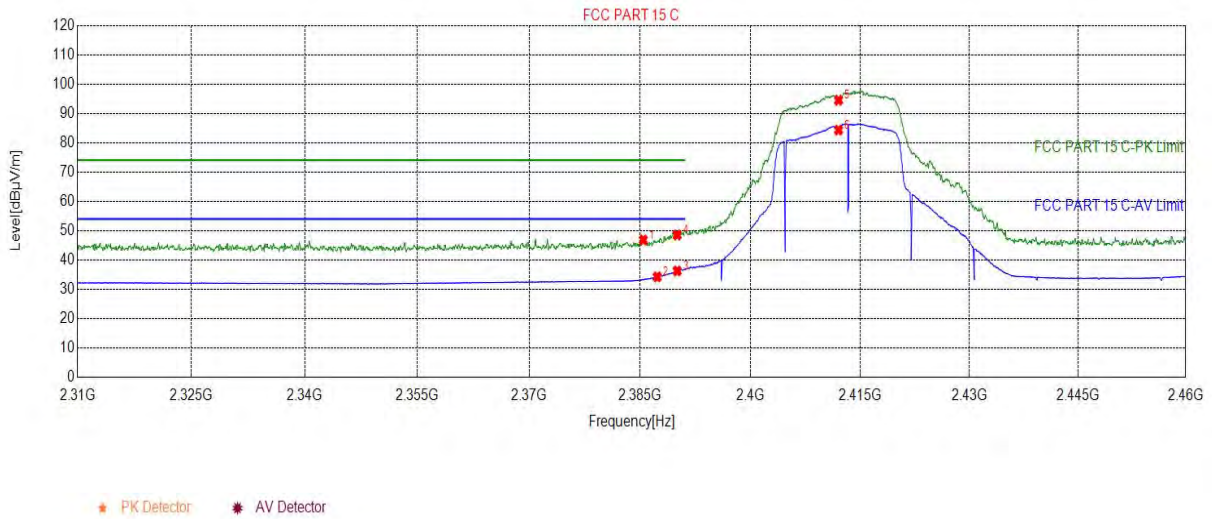


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802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.41	46.83	9.48	74.00	27.17	189	155	Horizontal
2	2387.28	34.26	9.53	54.00	19.74	175	164	Horizontal
3	2390.00	36.26	9.60	54.00	17.74	164	178	Horizontal
4	2390.00	48.54	9.60	74.00	25.46	182	195	Horizontal
5	2412.00	94.49	9.85	0.00	-94.49	194	164	Horizontal
6	2412.00	84.32	9.85	0.00	-84.32	166	215	Horizontal

Final Data List

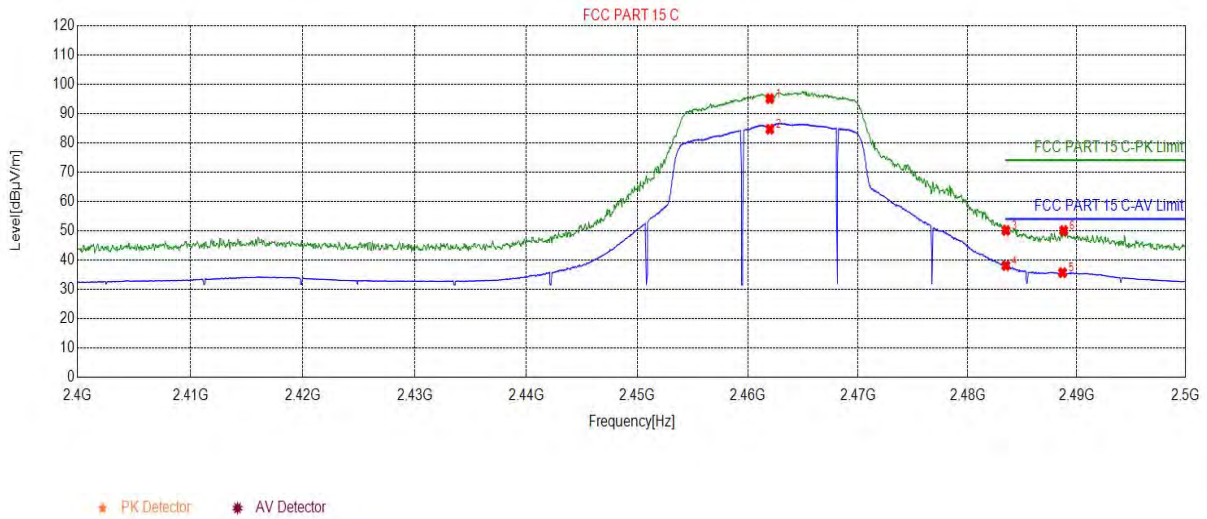


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802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	95.03	8.25	0.00	-95.03	198	247	Horizontal
2	2462.00	84.60	8.25	0.00	-84.60	175	5	Horizontal
3	2483.50	50.08	8.48	74.00	23.92	164	126	Horizontal
4	2483.50	38.10	8.48	54.00	15.90	188	195	Horizontal
5	2488.69	35.67	8.50	54.00	18.33	166	323	Horizontal
6	2488.79	50.04	8.50	74.00	23.96	194	60	Horizontal

Final Data List

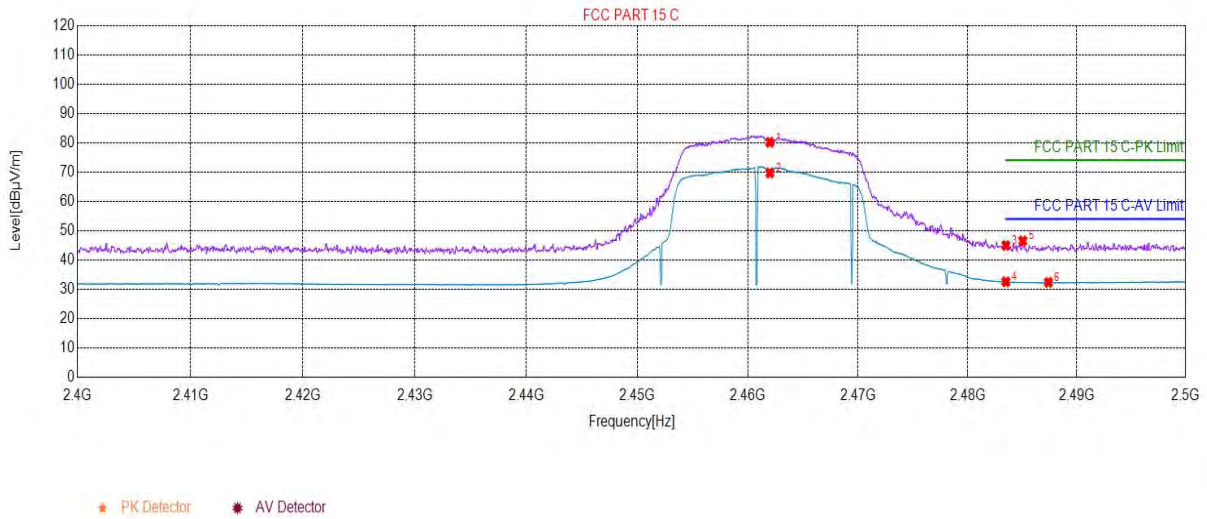


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802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	80.13	8.25	0.00	-80.13	189	36	Vertical
2	2462.00	69.69	8.25	0.00	-69.69	175	326	Vertical
3	2483.50	44.96	8.48	74.00	29.04	166	125	Vertical
4	2483.50	32.56	8.48	54.00	21.44	215	256	Vertical
5	2485.04	46.53	8.49	74.00	27.47	224	8	Vertical
6	2487.39	32.38	8.49	54.00	21.62	289	29	Vertical

Final Data List

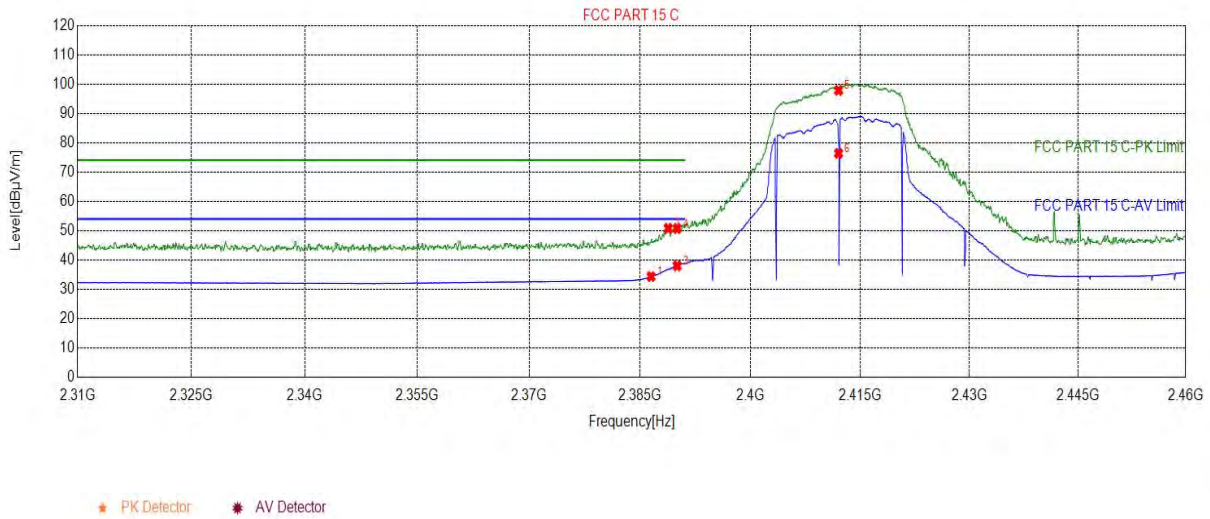


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802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.46	34.35	9.51	54.00	19.65	198	9	Horizontal
2	2388.78	50.82	9.57	74.00	23.18	174	263	Horizontal
3	2390.00	38.03	9.60	54.00	15.97	154	300	Horizontal
4	2390.00	50.73	9.60	74.00	23.27	162	28	Horizontal
5	2412.00	97.86	9.85	0.00	-97.86	183	179	Horizontal
6	2412.00	76.36	9.85	0.00	-76.36	169	244	Horizontal

Final Data List

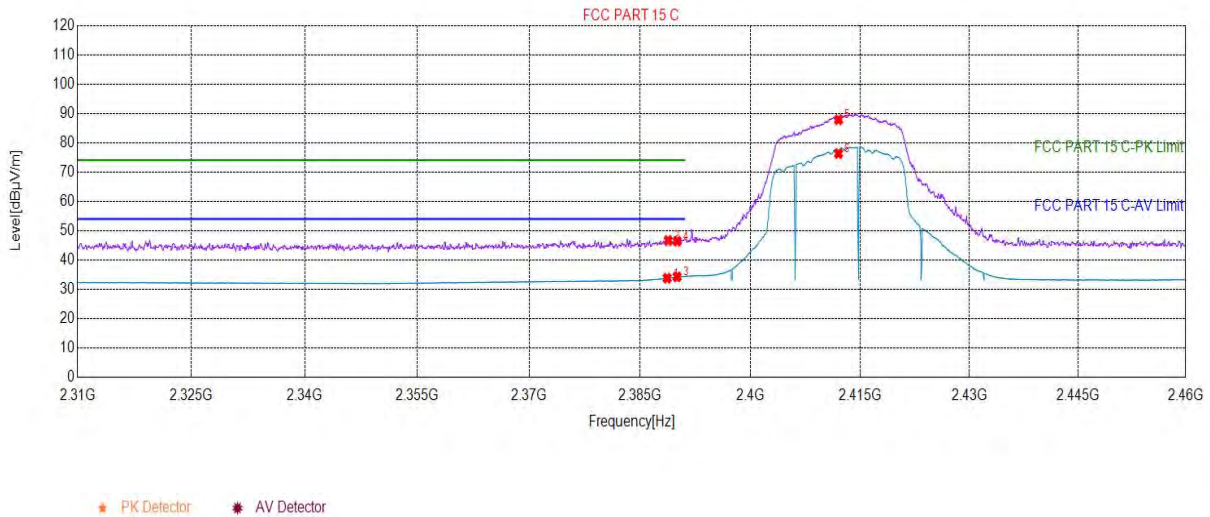


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802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.63	33.81	9.57	54.00	20.19	187	236	Vertical
2	2388.78	46.61	9.57	74.00	27.39	174	326	Vertical
3	2390.00	34.27	9.60	54.00	19.73	162	188	Vertical
4	2390.00	46.39	9.60	74.00	27.61	153	26	Vertical
5	2412.00	87.84	9.85	0.00	-87.84	198	174	Vertical
6	2412.00	76.30	9.85	0.00	-76.30	194	189	Vertical

Final Data List

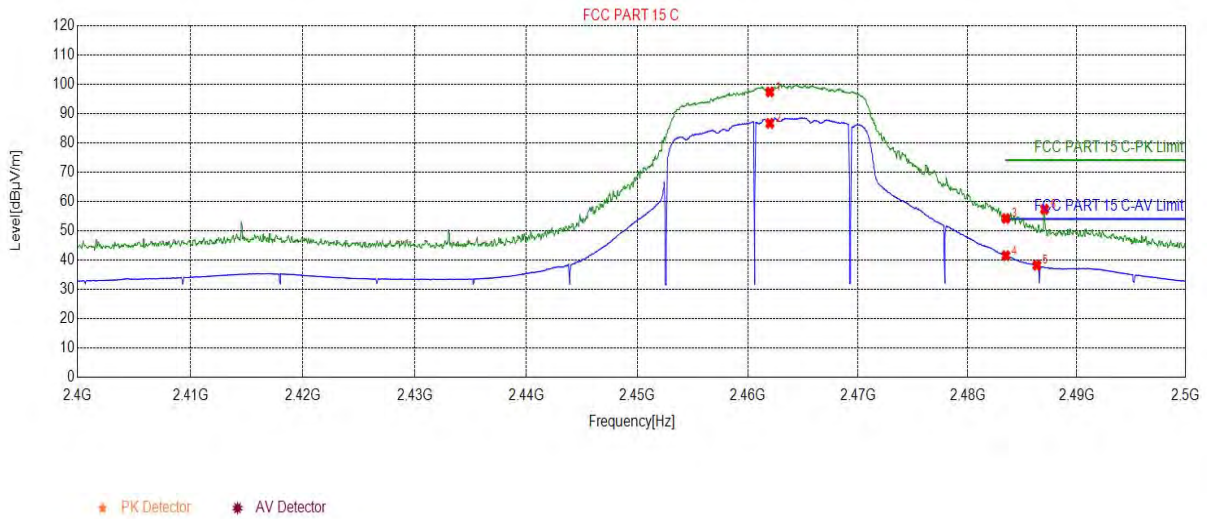


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802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	97.30	8.25	0.00	-97.30	198	255	Horizontal
2	2462.00	86.58	8.25	0.00	-86.58	185	264	Horizontal
3	2483.50	54.18	8.48	74.00	19.82	164	189	Horizontal
4	2483.50	41.50	8.48	54.00	12.50	156	317	Horizontal
5	2486.34	38.21	8.49	54.00	15.79	172	145	Horizontal
6	2487.04	57.28	8.49	74.00	16.72	186	5	Horizontal

Final Data List

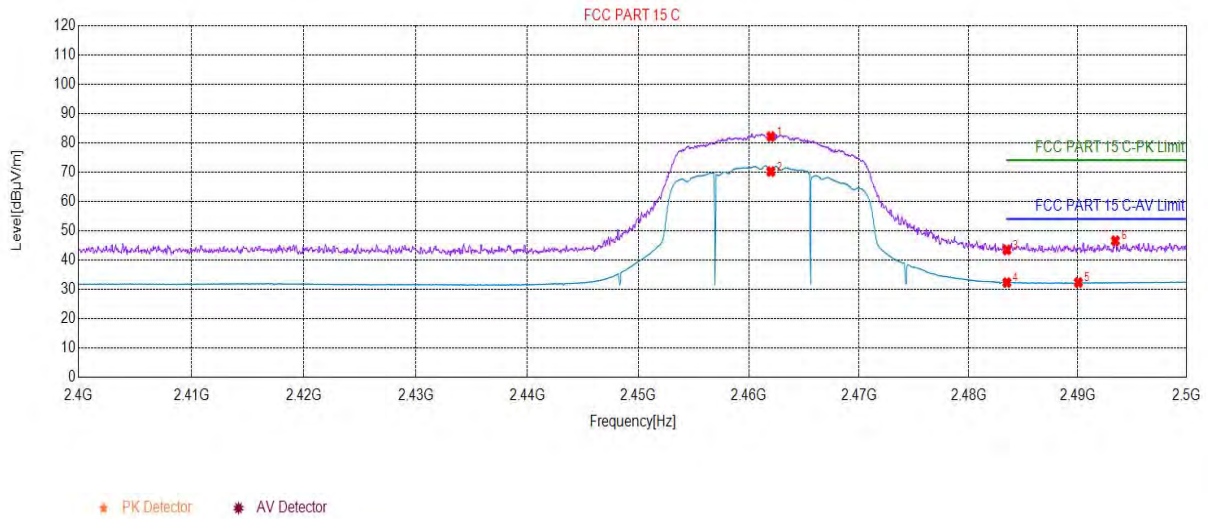


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802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	82.08	8.25	0.00	-82.08	175	43	Vertical
2	2462.00	70.15	8.25	0.00	-70.15	168	126	Vertical
3	2483.50	43.44	8.48	74.00	30.56	194	263	Vertical
4	2483.50	32.29	8.48	54.00	21.71	188	2	Vertical
5	2490.04	32.31	8.50	54.00	21.69	155	178	Vertical
6	2493.44	46.56	8.58	74.00	27.44	172	299	Vertical

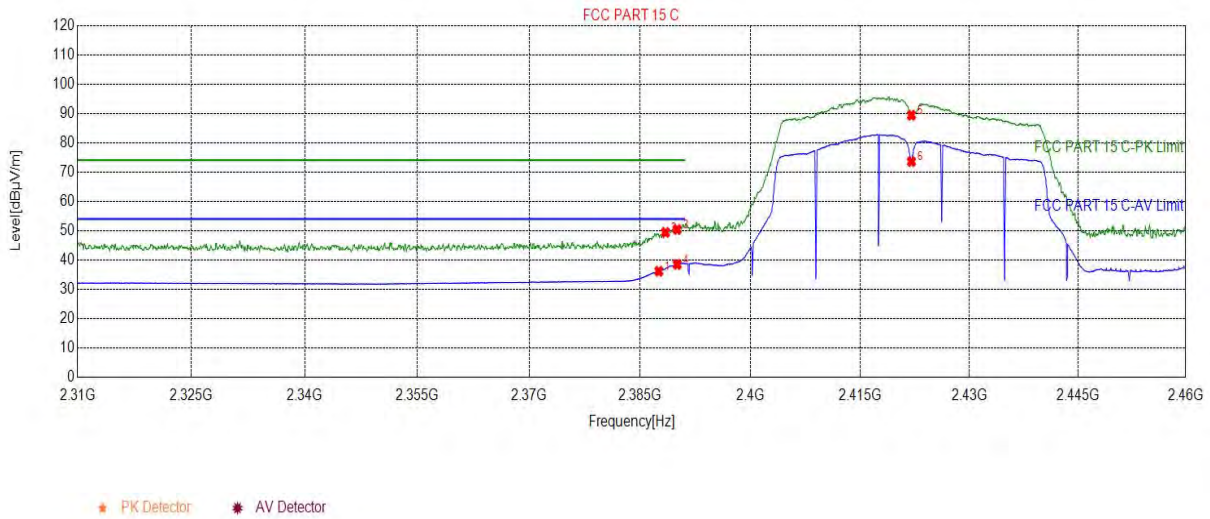
Final Data List



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802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.51	36.15	9.54	54.00	17.85	187	26	Horizontal
2	2388.41	49.40	9.56	74.00	24.60	195	236	Horizontal
3	2390.00	50.40	9.60	74.00	23.60	165	166	Horizontal
4	2390.00	38.48	9.60	54.00	15.52	145	259	Horizontal
5	2422.00	89.36	9.83	0.00	-89.36	167	142	Horizontal
6	2422.00	73.56	9.83	0.00	-73.56	181	58	Horizontal

Final Data List

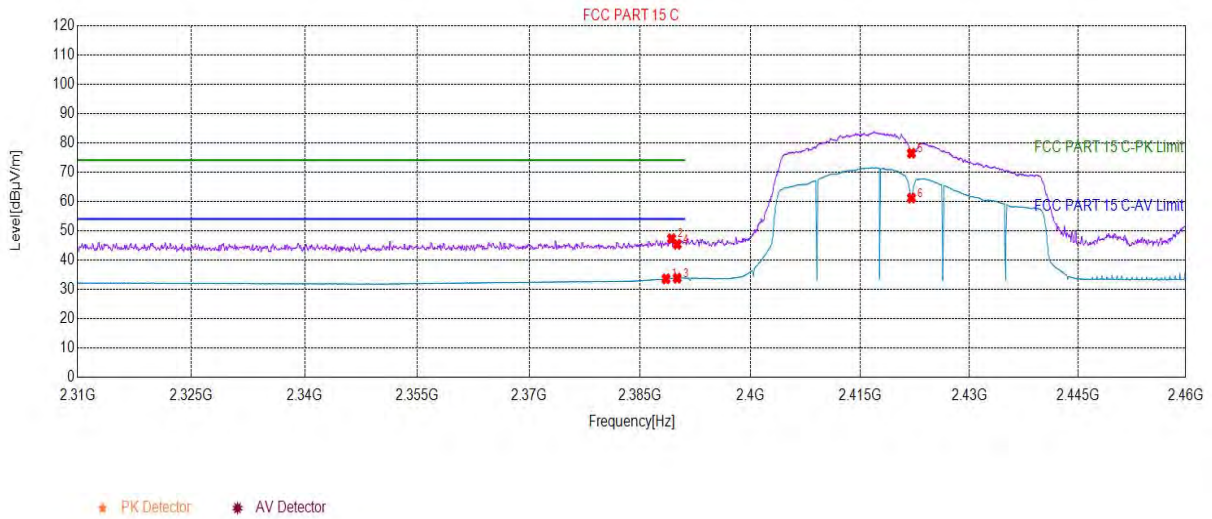


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802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.48	33.58	9.56	54.00	20.42	178	245	Vertical
2	2389.23	47.28	9.58	74.00	26.72	195	355	Vertical
3	2390.00	33.80	9.60	54.00	20.20	168	189	Vertical
4	2390.00	45.35	9.60	74.00	28.65	149	5	Vertical
5	2422.00	76.39	9.83	0.00	-76.39	194	12	Vertical
6	2422.00	61.13	9.83	0.00	-61.13	215	6	Vertical

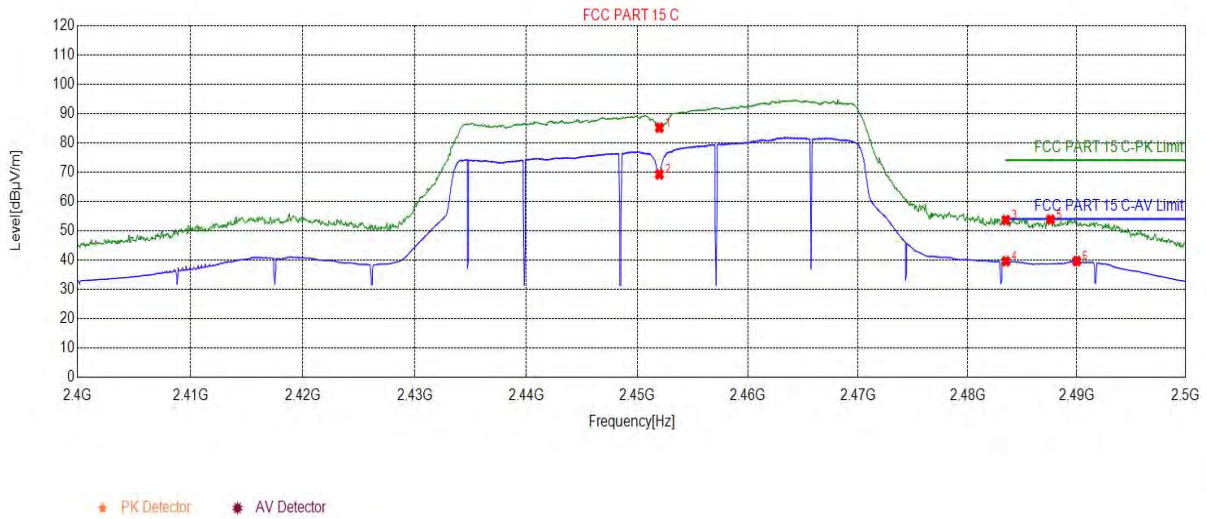
Final Data List



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802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	85.10	8.27	0.00	-85.10	187	147	Horizontal
2	2452.00	69.21	8.27	0.00	-69.21	154	185	Horizontal
3	2483.50	53.60	8.48	74.00	20.40	167	6	Horizontal
4	2483.50	39.54	8.48	54.00	14.46	182	23	Horizontal
5	2487.59	53.75	8.50	74.00	20.25	159	125	Horizontal
6	2489.99	39.62	8.50	54.00	14.38	180	255	Horizontal

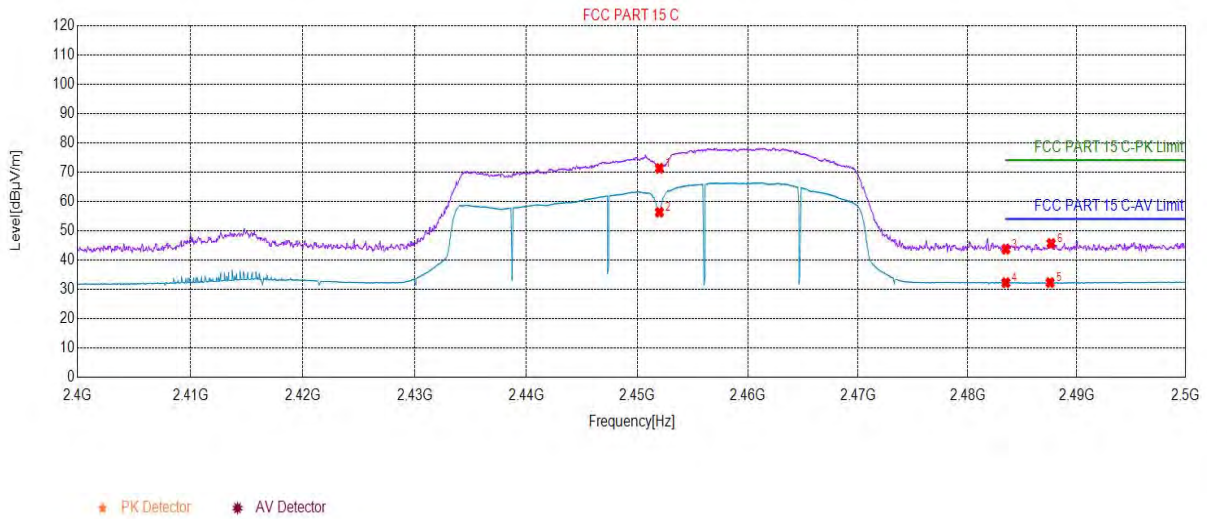
Final Data List



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802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	71.27	8.27	0.00	-71.27	175	78	Vertical
2	2452.00	56.28	8.27	0.00	-56.28	169	7	Vertical
3	2483.50	43.69	8.48	74.00	30.31	182	154	Vertical
4	2483.50	32.22	8.48	54.00	21.78	149	165	Vertical
5	2487.54	32.29	8.50	54.00	21.71	192	195	Vertical
6	2487.64	45.66	8.50	74.00	28.34	188	142	Vertical

Final Data List

Remark:

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

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

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



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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

DTS Bandwidth
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant9	2412	8.160	2407.920	2416.080	0.5	PASS
	Ant10	2412	8.160	2407.920	2416.080	0.5	PASS
	Ant9	2437	8.130	2432.920	2441.050	0.5	PASS
	Ant10	2437	8.130	2432.920	2441.050	0.5	PASS
	Ant9	2462	8.130	2457.920	2466.050	0.5	PASS
	Ant10	2462	8.130	2457.920	2466.050	0.5	PASS
11G	Ant9	2412	15.840	2404.050	2419.890	0.5	PASS
	Ant10	2412	15.480	2404.440	2419.920	0.5	PASS
	Ant9	2437	15.150	2429.440	2444.590	0.5	PASS
	Ant10	2437	15.360	2429.170	2444.530	0.5	PASS
	Ant9	2462	15.510	2454.080	2469.590	0.5	PASS
	Ant10	2462	15.600	2454.200	2469.800	0.5	PASS
11N20SISO	Ant9	2412	16.890	2403.540	2420.430	0.5	PASS
	Ant10	2412	16.860	2403.570	2420.430	0.5	PASS
	Ant9	2437	15.180	2429.410	2444.590	0.5	PASS
	Ant10	2437	16.050	2428.540	2444.590	0.5	PASS
	Ant9	2462	16.860	2453.540	2470.400	0.5	PASS
	Ant10	2462	16.830	2453.570	2470.400	0.5	PASS
11N40SISO	Ant9	2422	35.880	2404.360	2440.240	0.5	PASS
	Ant10	2422	35.280	2404.360	2439.640	0.5	PASS
	Ant9	2437	35.280	2419.360	2454.640	0.5	PASS
	Ant10	2437	35.220	2419.360	2454.580	0.5	PASS
	Ant9	2452	35.880	2433.760	2469.640	0.5	PASS
	Ant10	2452	35.880	2433.760	2469.640	0.5	PASS
11B-CDD	Ant9	2412	7.650	2407.920	2415.570	0.5	PASS
	Ant10	2412	8.160	2407.920	2416.080	0.5	PASS
	Ant9	2437	8.130	2432.920	2441.050	0.5	PASS
	Ant10	2437	8.130	2432.920	2441.050	0.5	PASS
	Ant9	2462	7.650	2457.920	2465.570	0.5	PASS



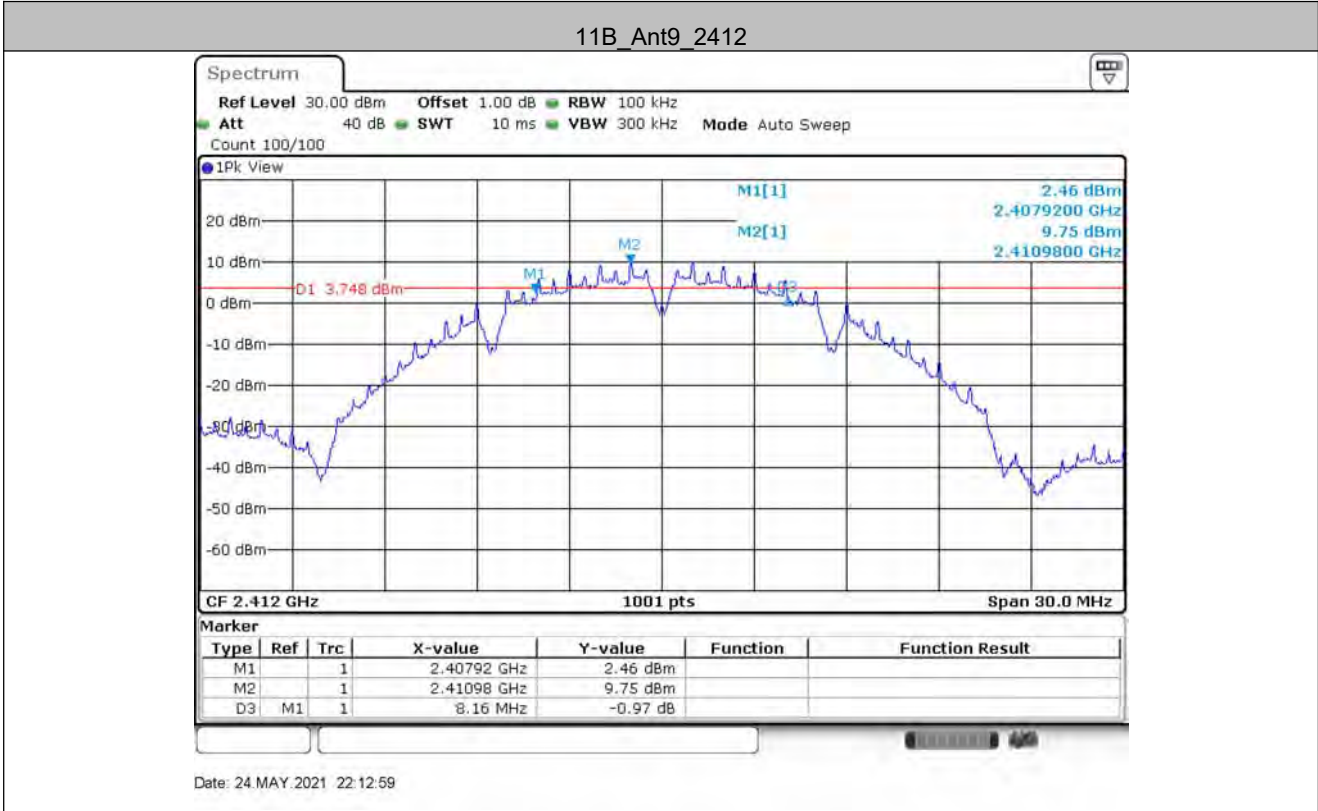
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	Ant10	2462	8.130	2457.920	2466.050	0.5	PASS
11G-CDD	Ant9	2412	15.840	2404.080	2419.920	0.5	PASS
	Ant10	2412	15.510	2404.410	2419.920	0.5	PASS
	Ant9	2437	15.210	2429.380	2444.590	0.5	PASS
	Ant10	2437	15.780	2428.810	2444.590	0.5	PASS
	Ant9	2462	15.960	2453.840	2469.800	0.5	PASS
	Ant10	2462	15.210	2454.380	2469.590	0.5	PASS
	11N20MIMO	Ant9	2412	16.830	2403.570	2420.400	0.5
Ant10		2412	16.020	2404.380	2420.400	0.5	PASS
Ant9		2437	15.150	2429.440	2444.590	0.5	PASS
Ant10		2437	15.990	2428.570	2444.560	0.5	PASS
Ant9		2462	15.990	2453.570	2469.560	0.5	PASS
Ant10		2462	16.110	2454.050	2470.160	0.5	PASS
11N40MIMO	Ant9	2422	35.820	2404.360	2440.180	0.5	PASS
	Ant10	2422	35.280	2404.360	2439.640	0.5	PASS
	Ant9	2437	35.280	2419.360	2454.640	0.5	PASS
	Ant10	2437	35.220	2419.360	2454.580	0.5	PASS
	Ant9	2452	35.880	2433.760	2469.640	0.5	PASS
	Ant10	2452	35.880	2433.760	2469.640	0.5	PASS



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Test Graphs



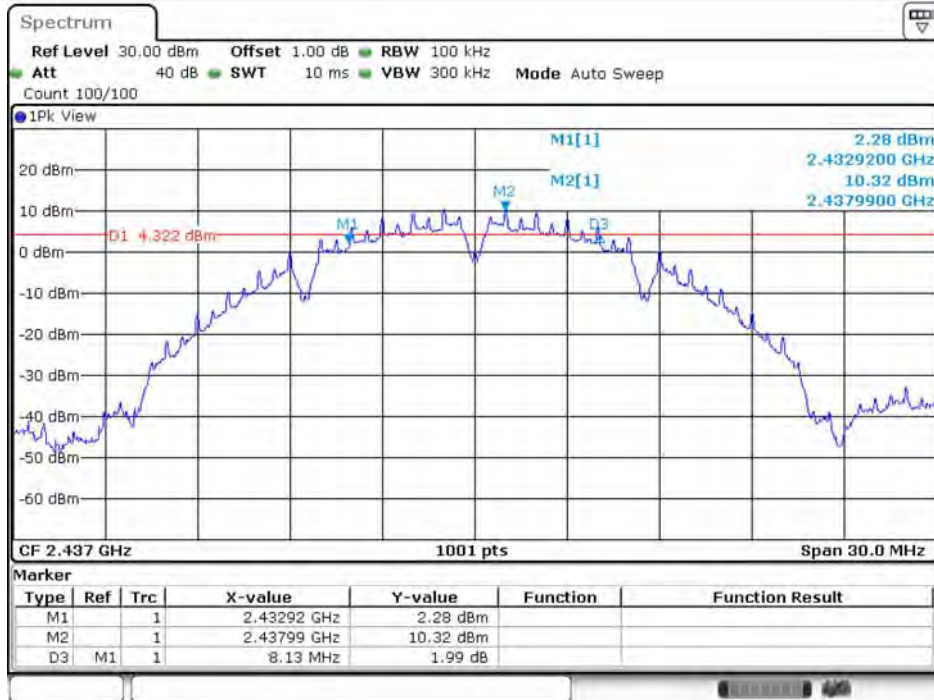
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11B_Ant10_2412



Date: 24 MAY.2021 23:24:19

11B_Ant9_2437



Date: 24 MAY.2021 22:15:16



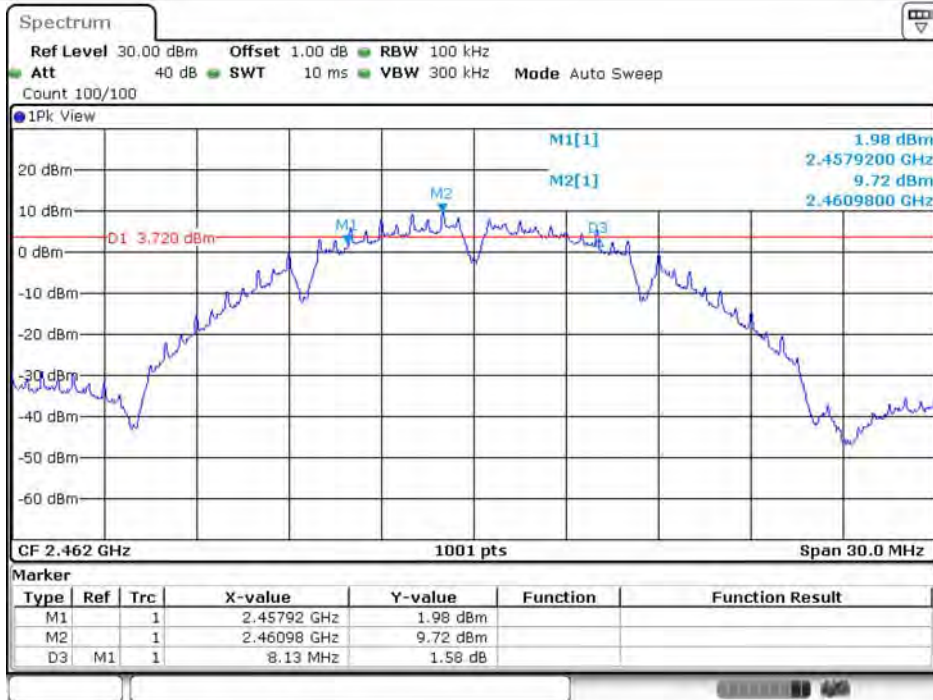
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11B_Ant10_2437



Date: 24 MAY 2021 23:27:26

11B_Ant9_2462

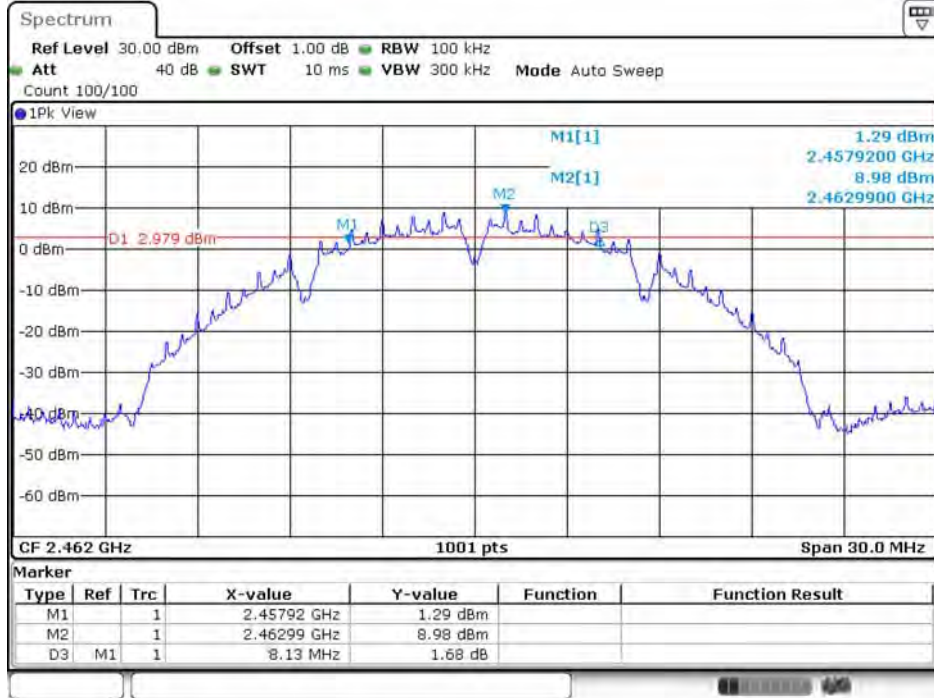


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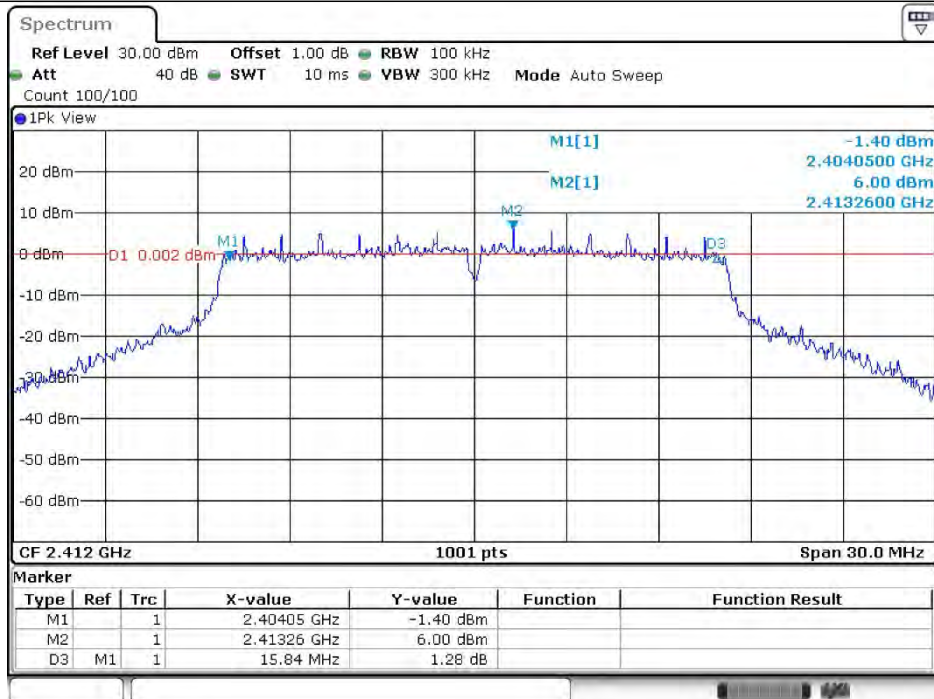
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11B_Ant10_2462



Date: 24 MAY.2021 23:29:20

11G_Ant9_2412

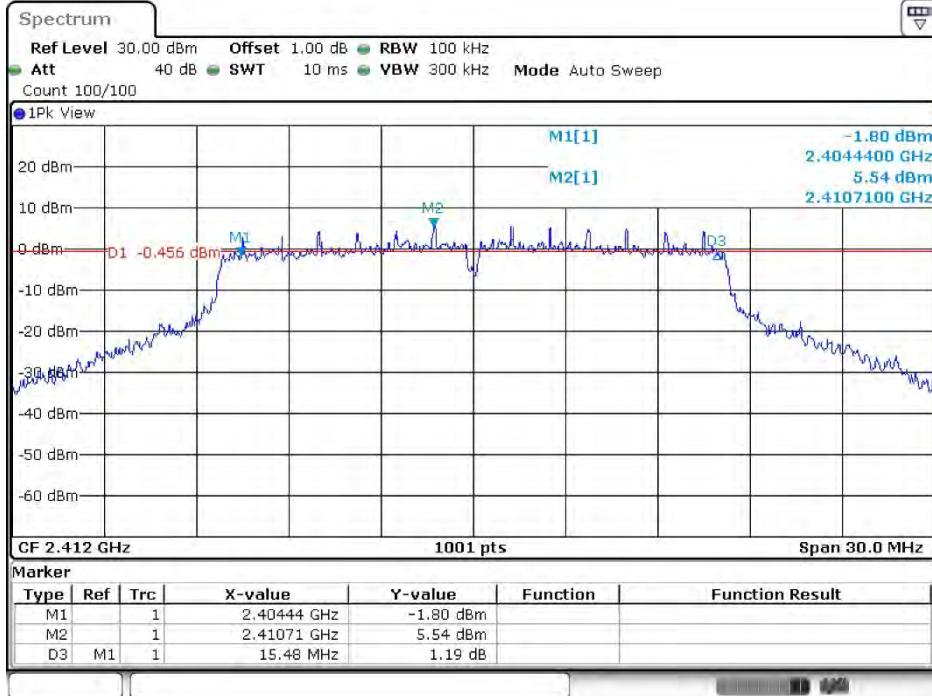


Date: 24 MAY.2021 22:18:49



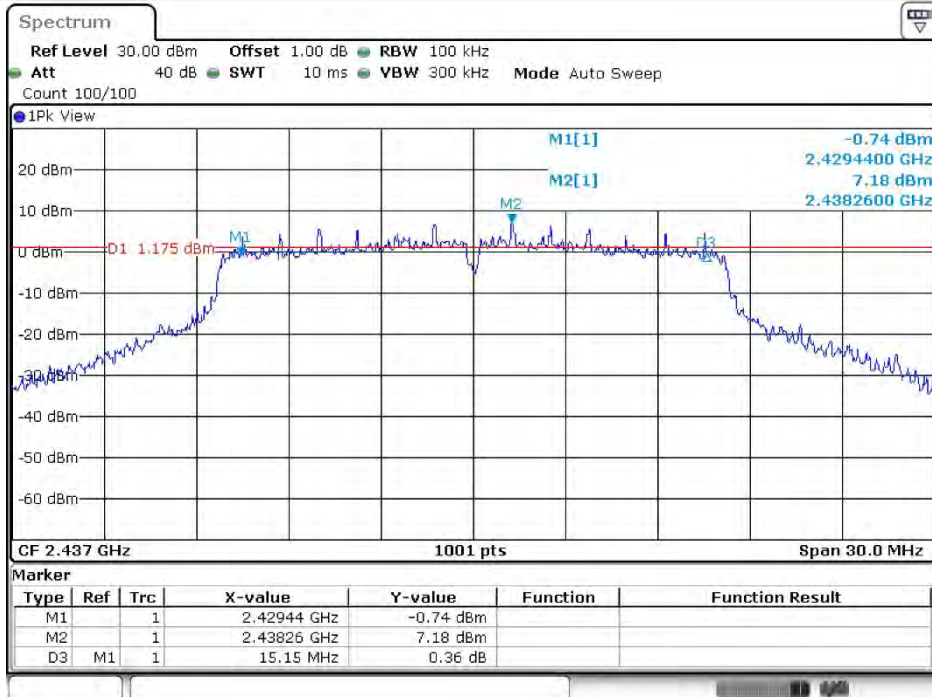
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11G_Ant10_2412



Date: 24 MAY.2021 23:31:19

11G_Ant9_2437

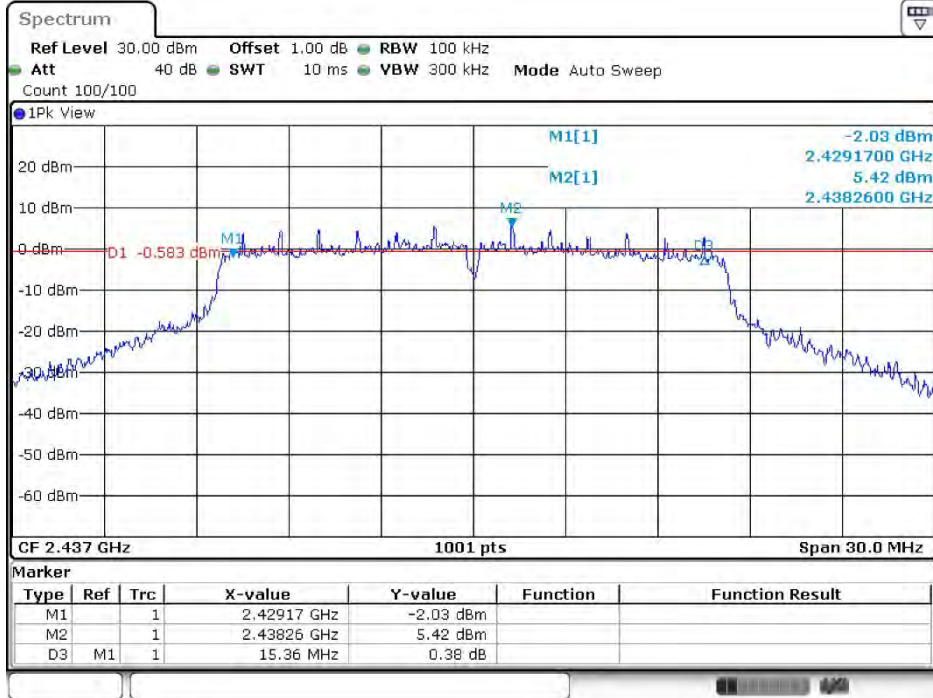


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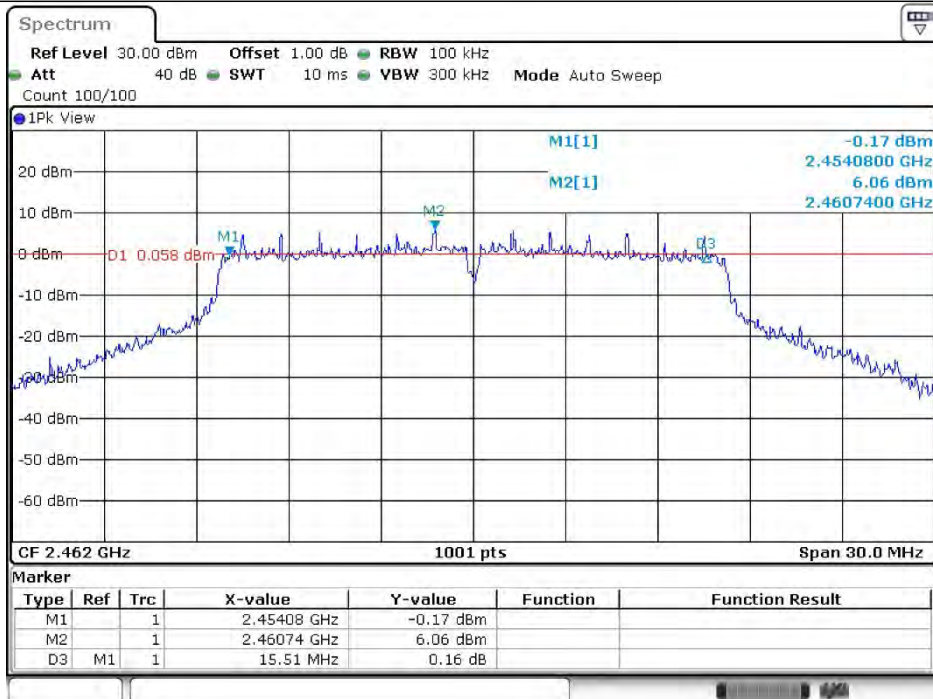
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11G_Ant10_2437



Date: 24 MAY.2021 23:33:11

11G_Ant9_2462

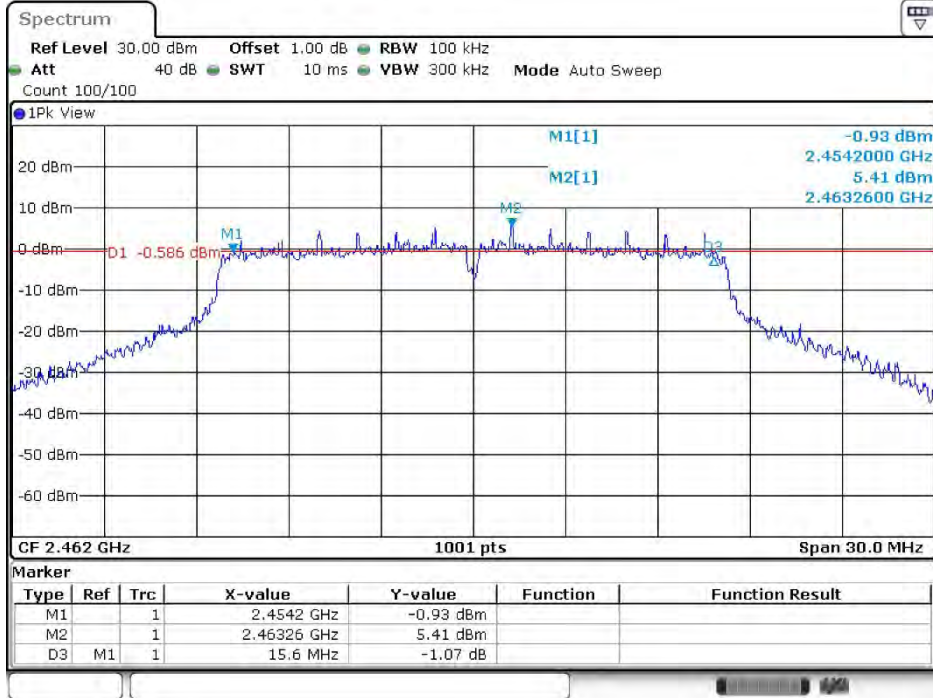


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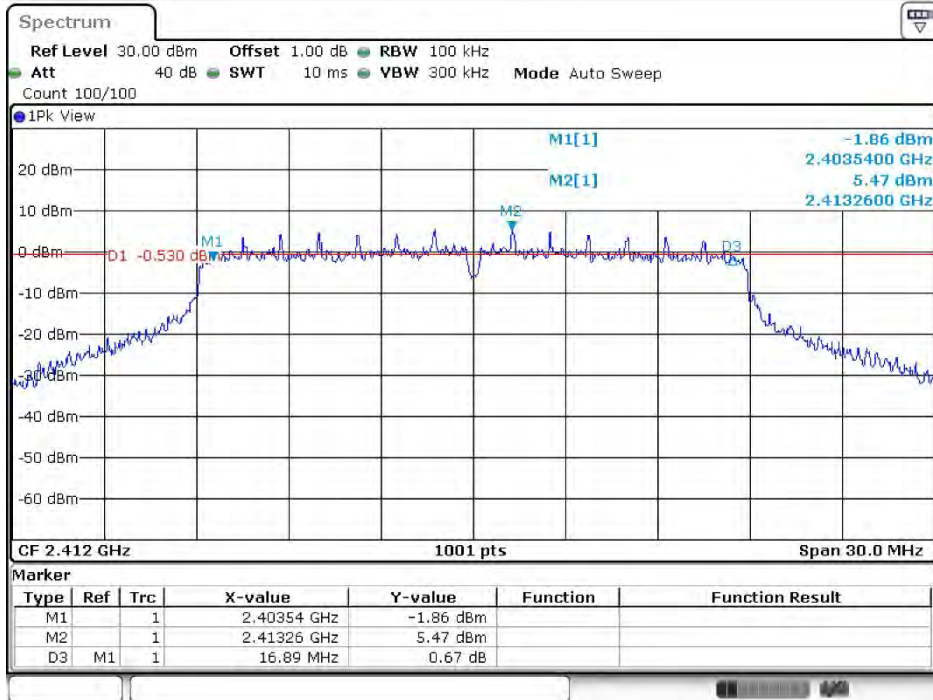
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11G_Ant10_2462



Date: 24 MAY.2021 23:34:38

11N20SISO_Ant9_2412

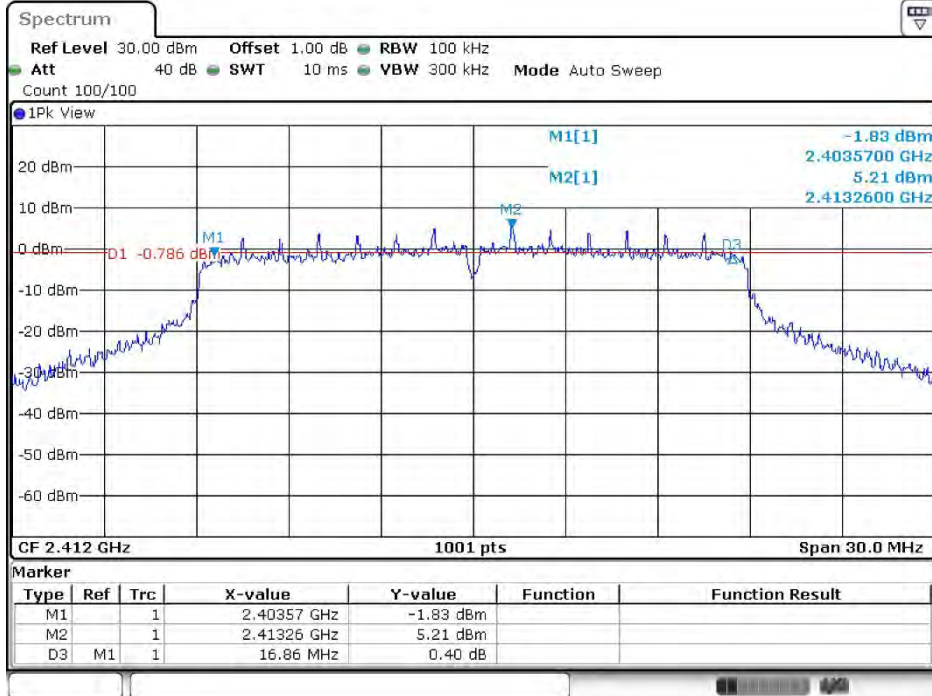


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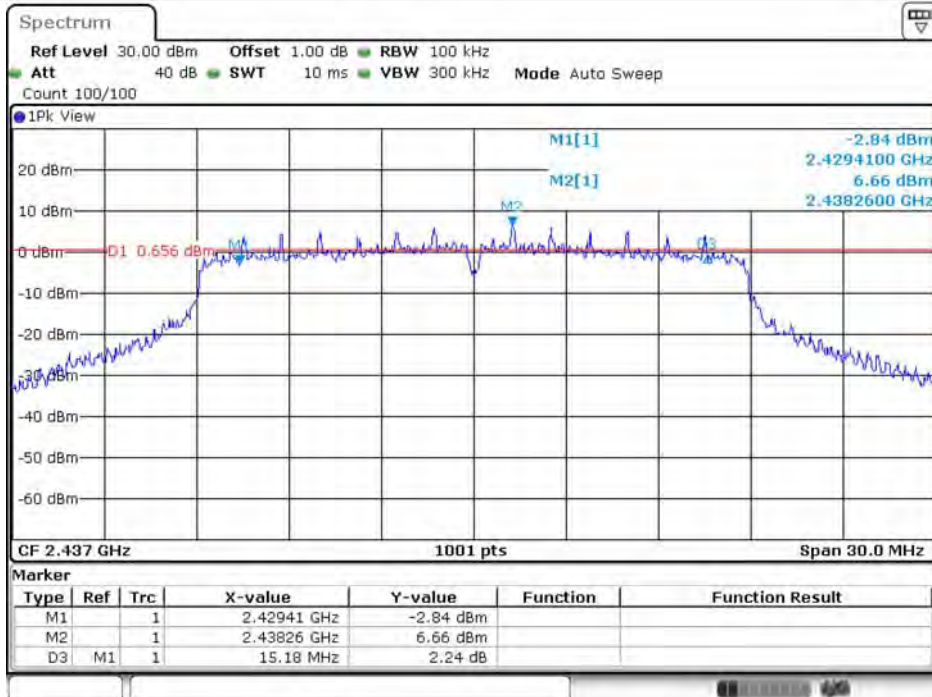
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11N20SISO_Ant10_2412



Date: 24 MAY.2021 23:36:20

11N20SISO_Ant9_2437

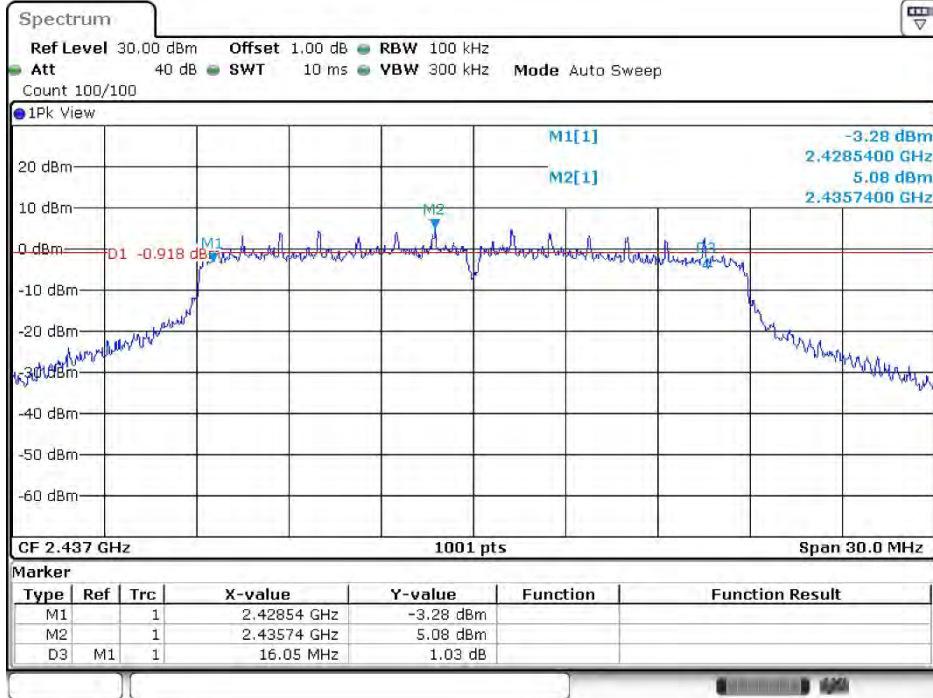


Date: 24 MAY.2021 22:33:02



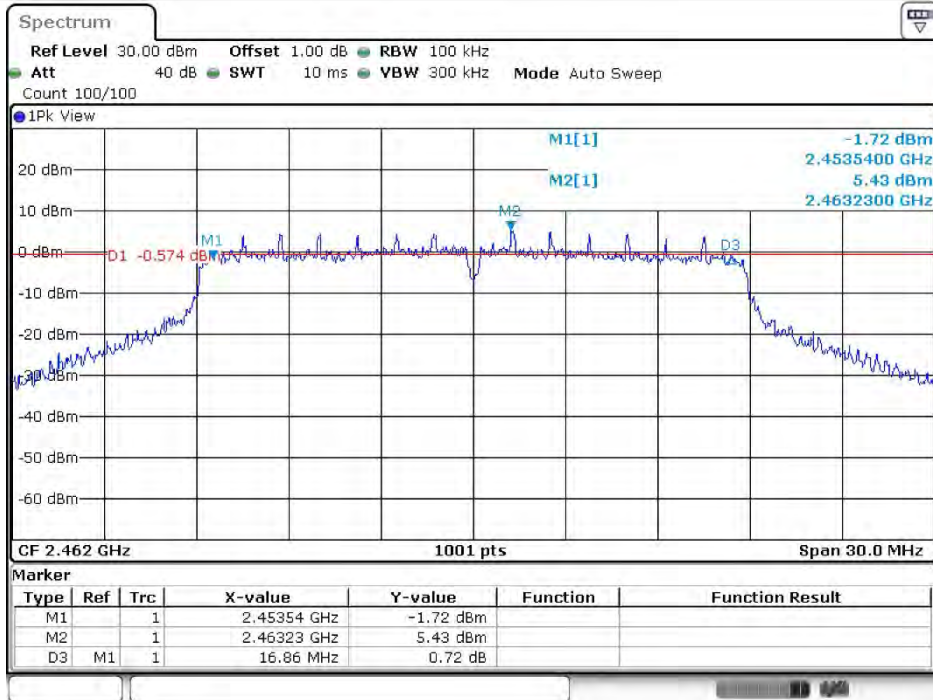
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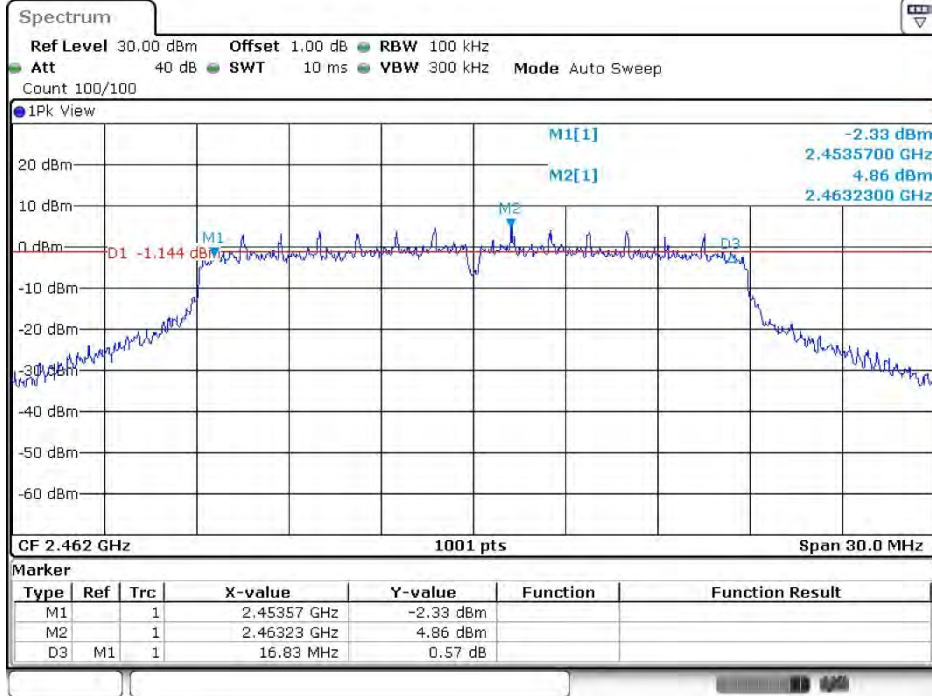


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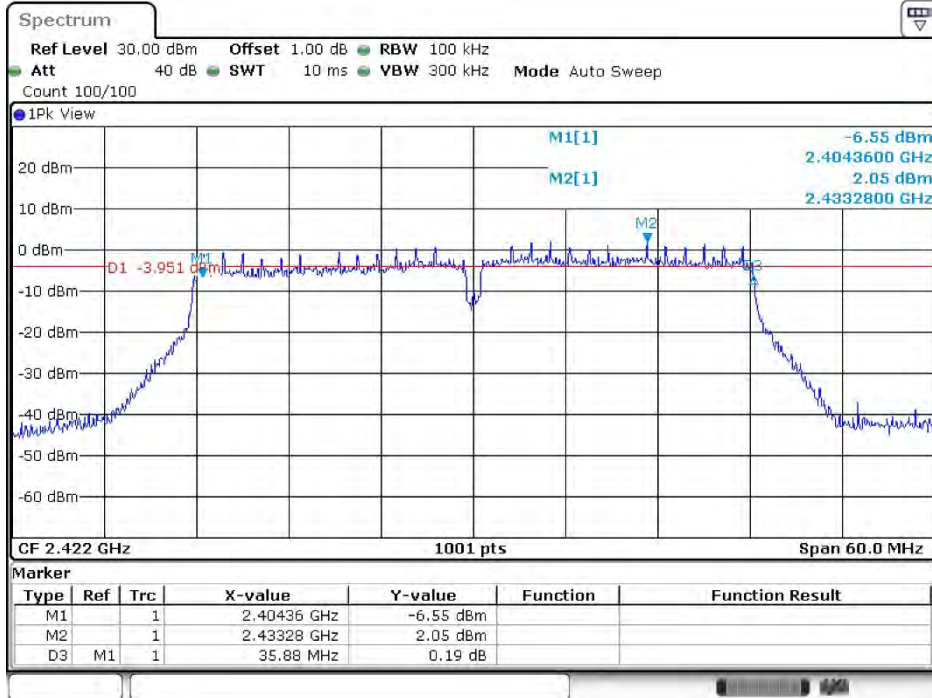
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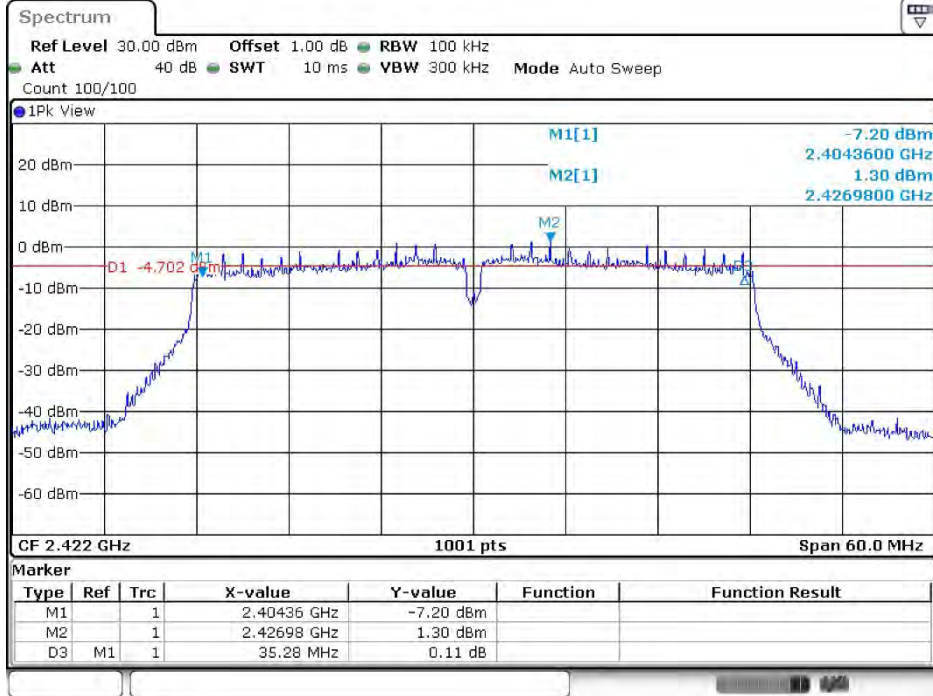


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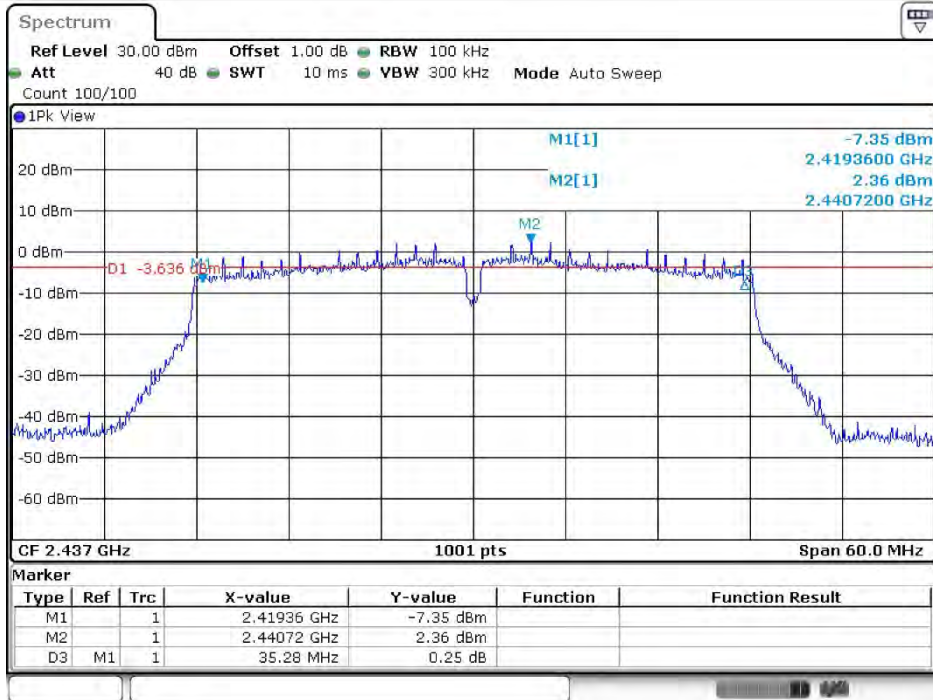
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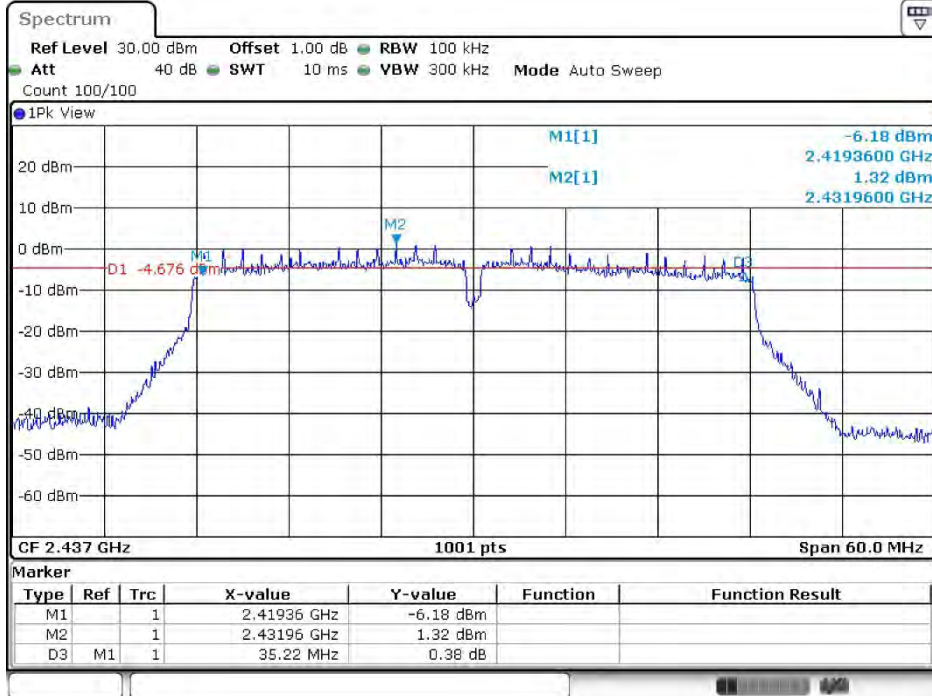


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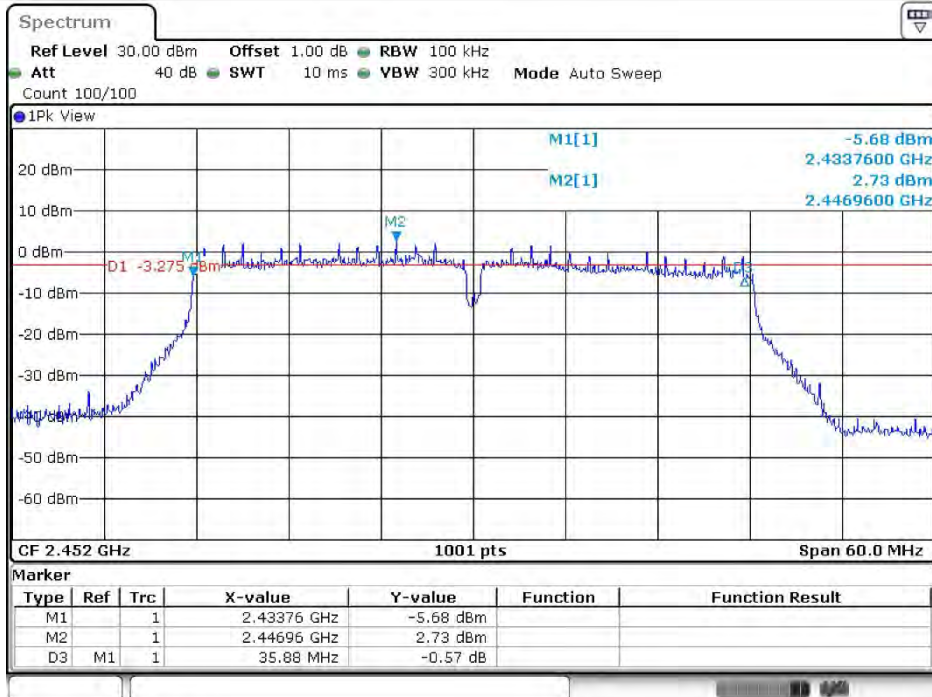
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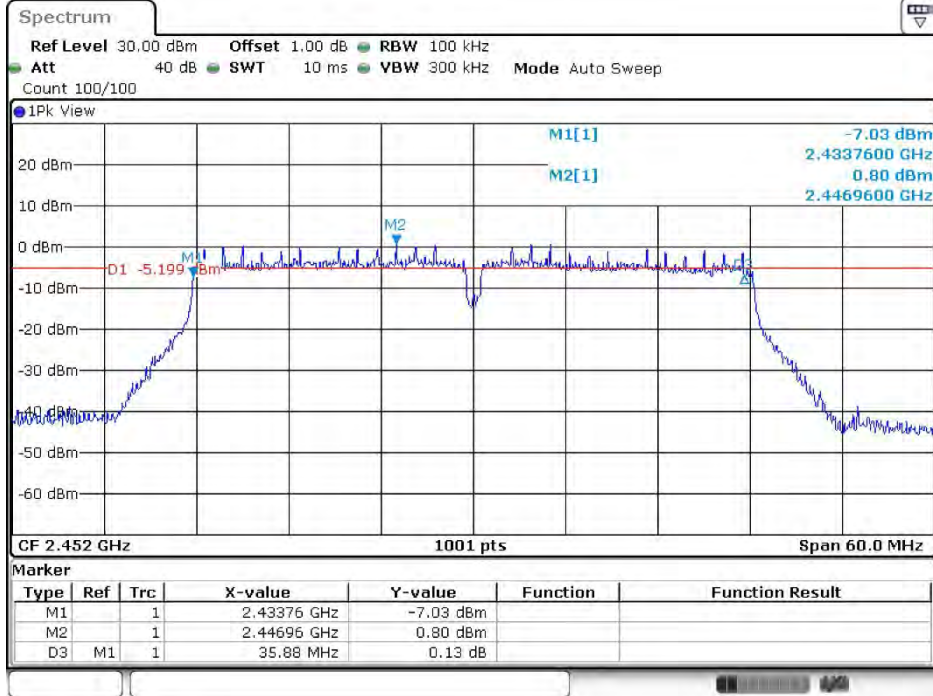


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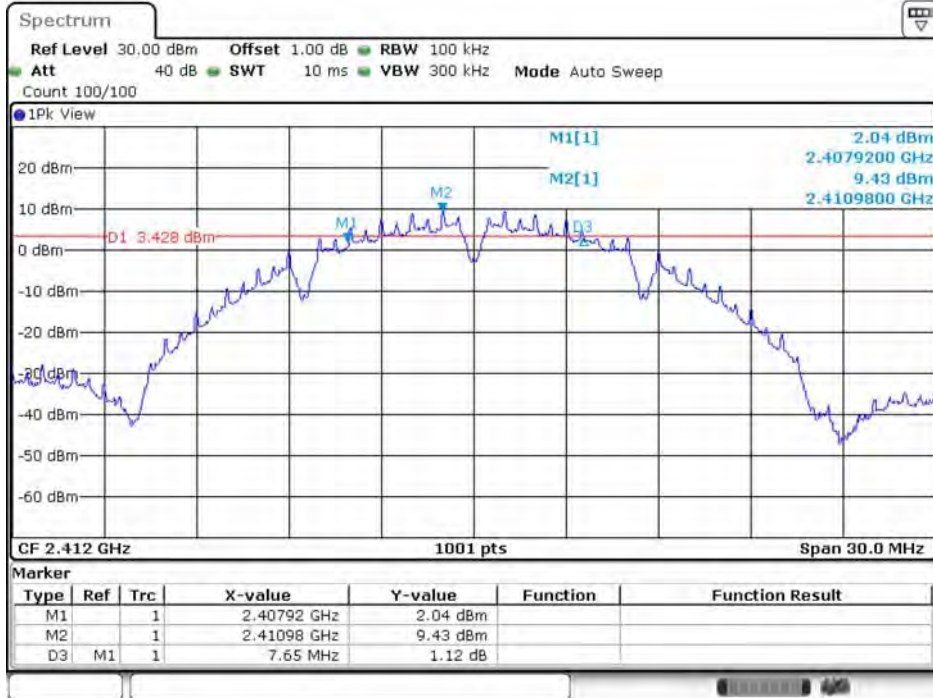
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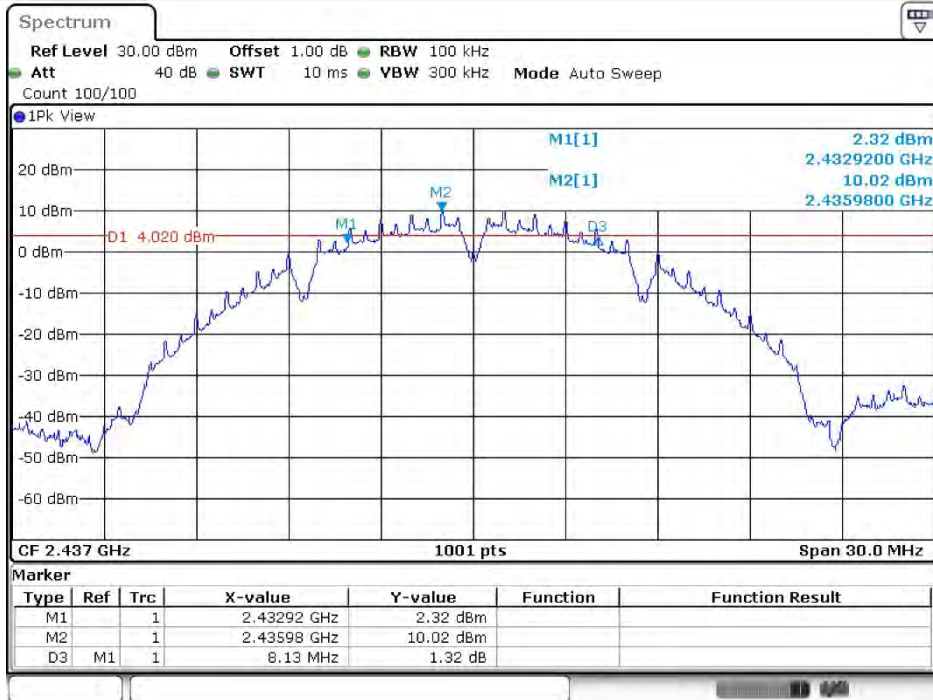
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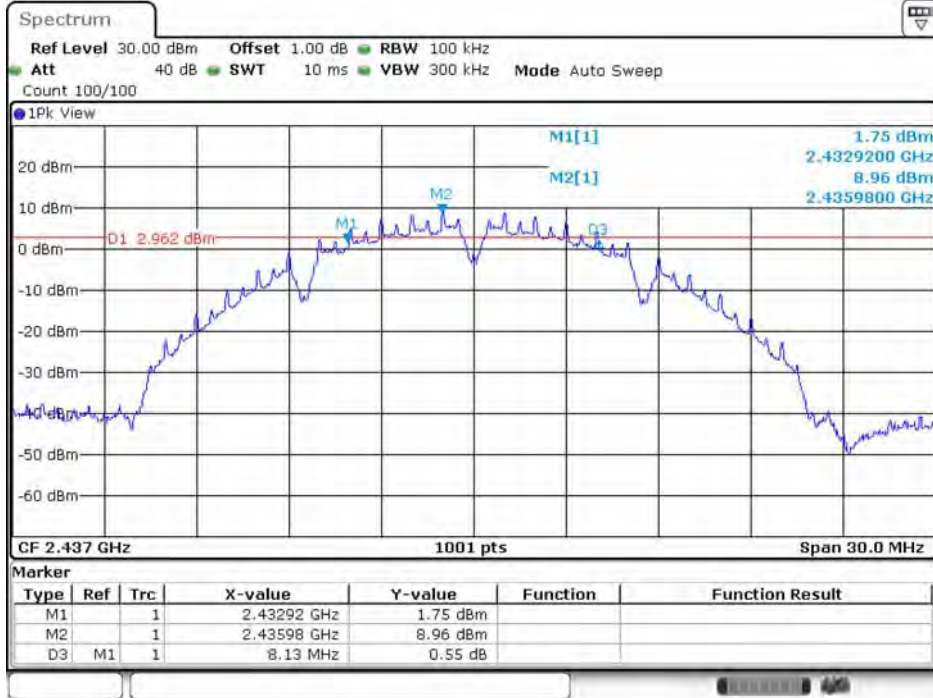


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Date: 24 MAY.2021 23:49:55

11B-CDD_Ant9_2462



Date: 24 MAY.2021 22:47:36



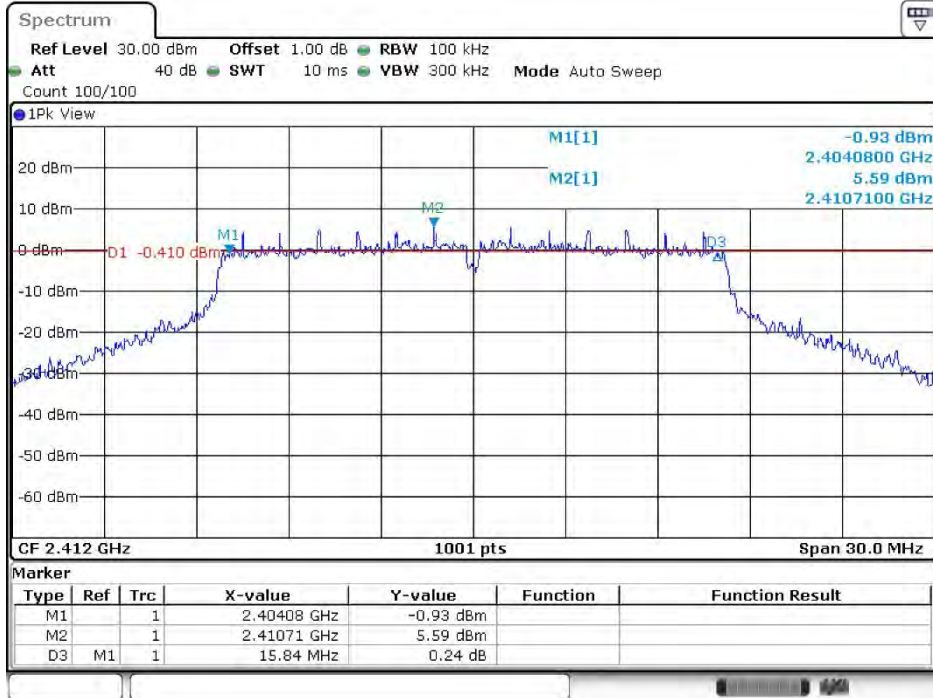
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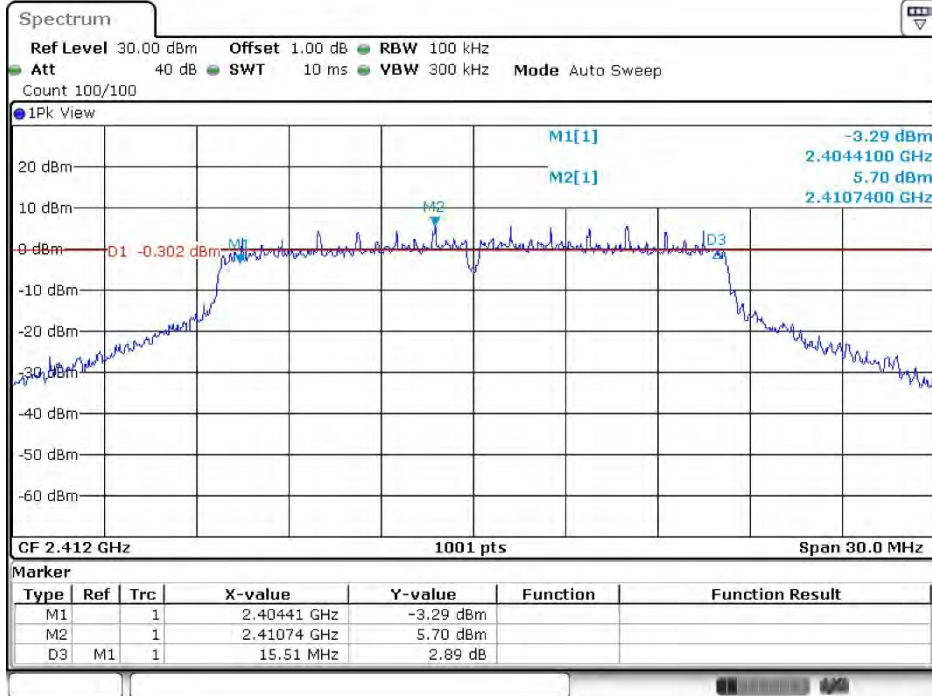


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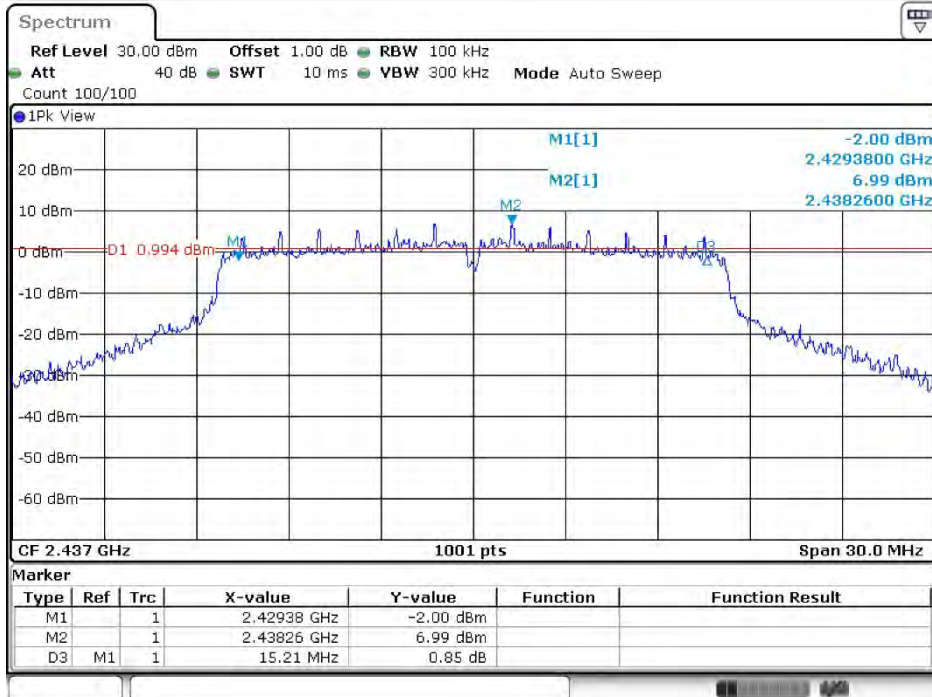
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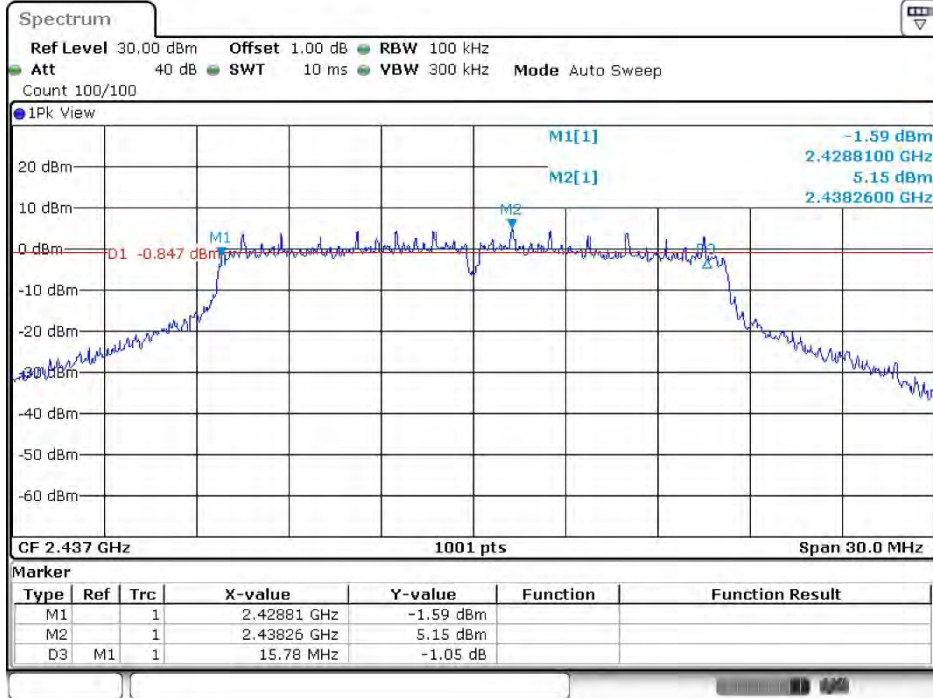


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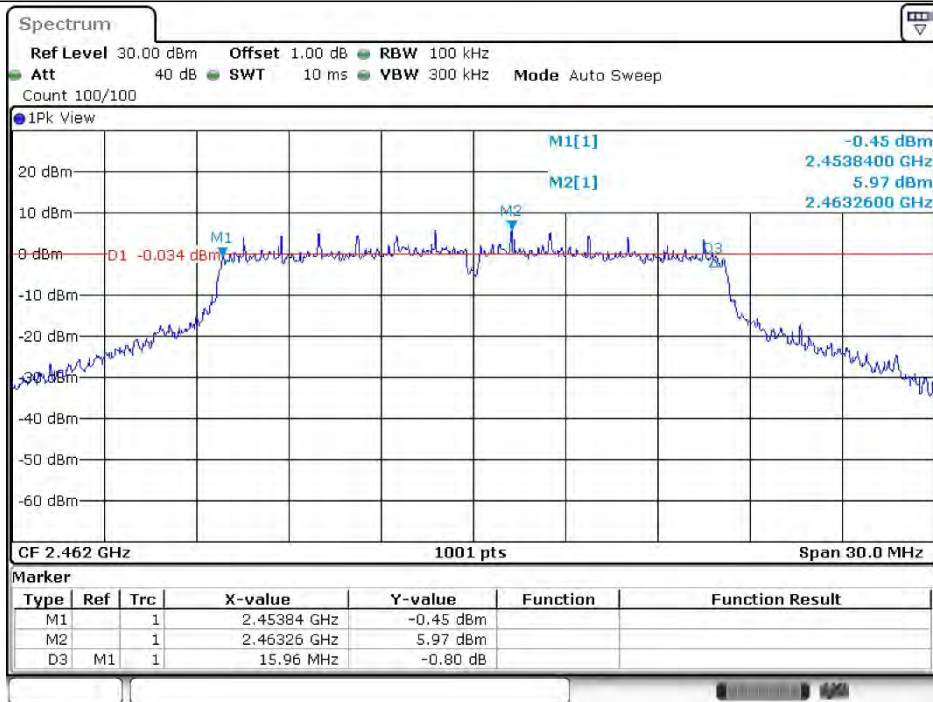
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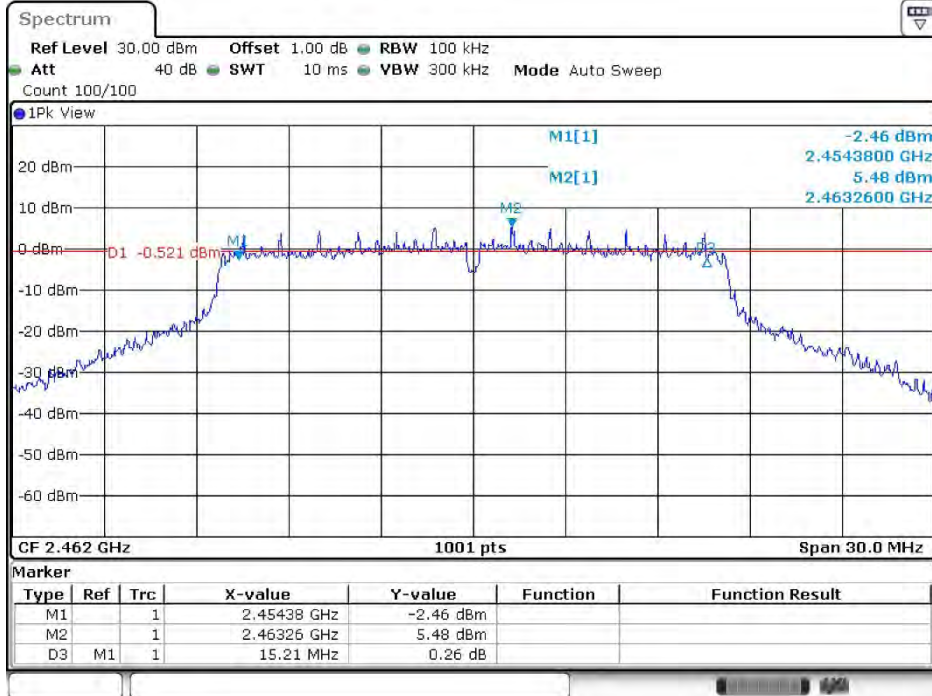


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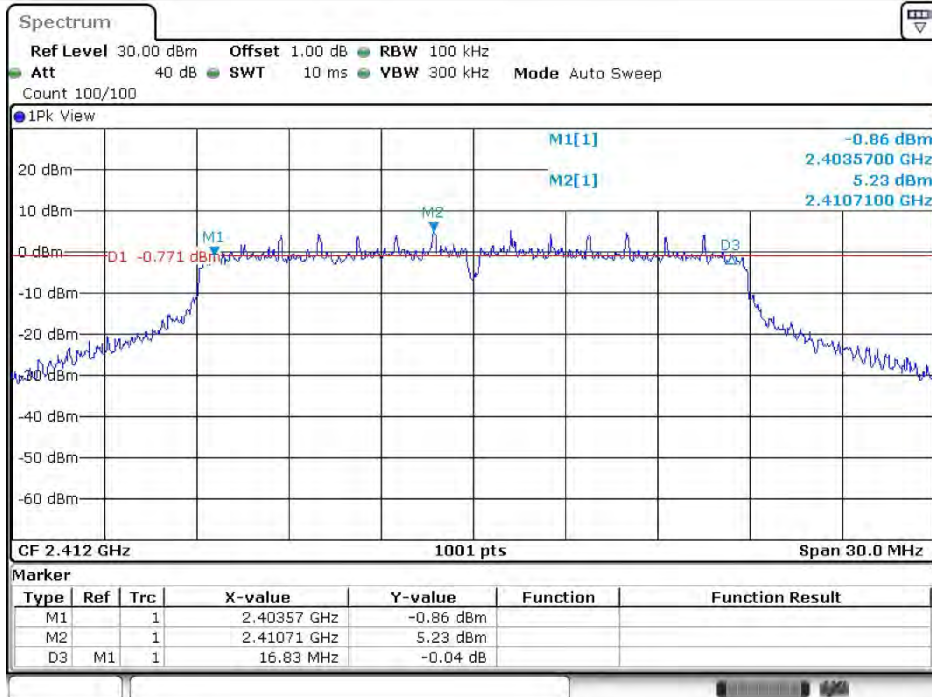
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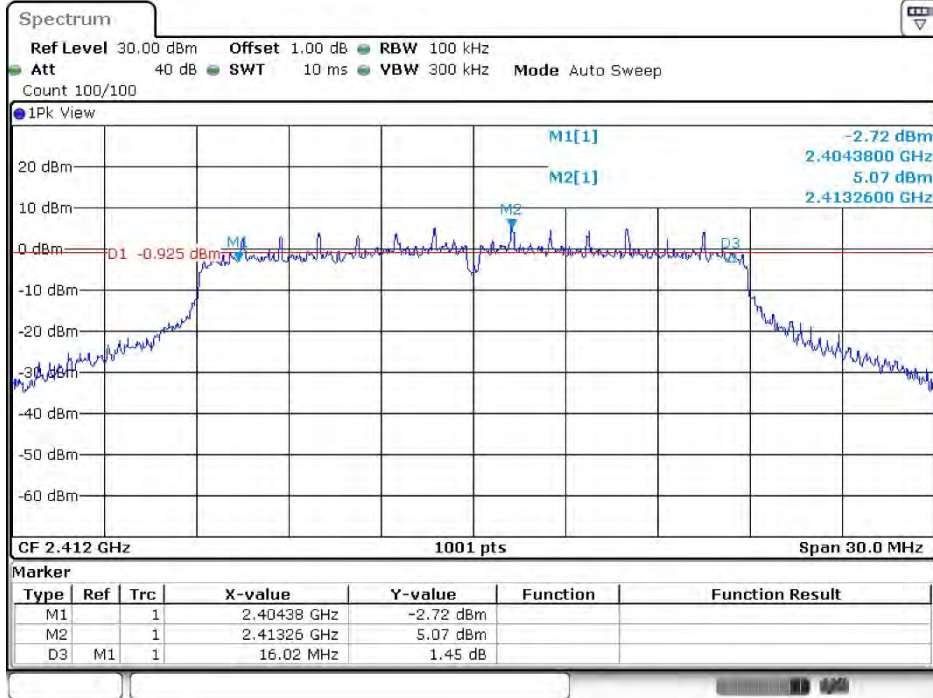


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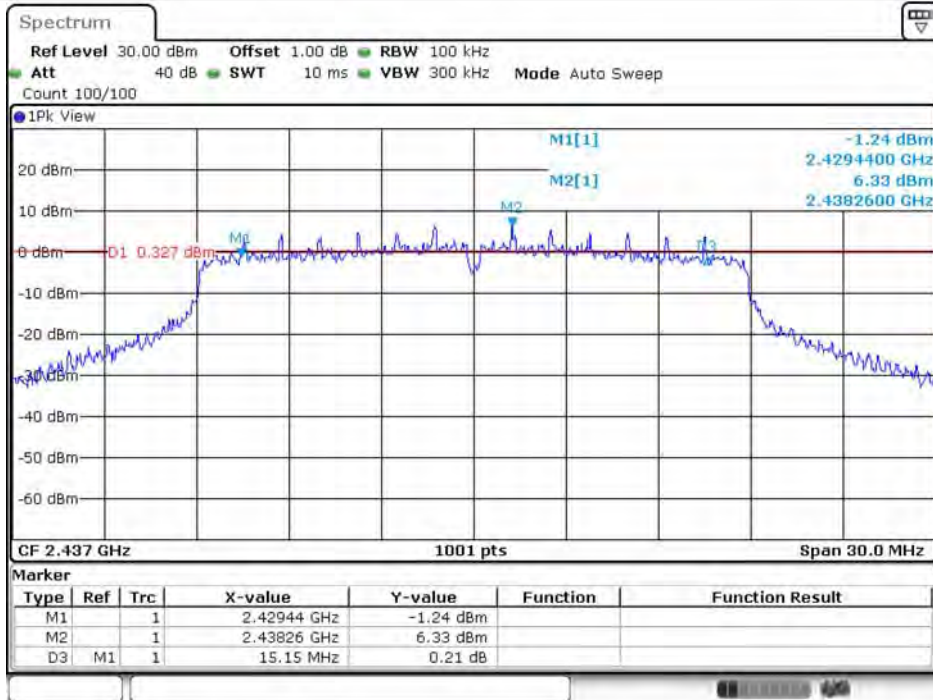
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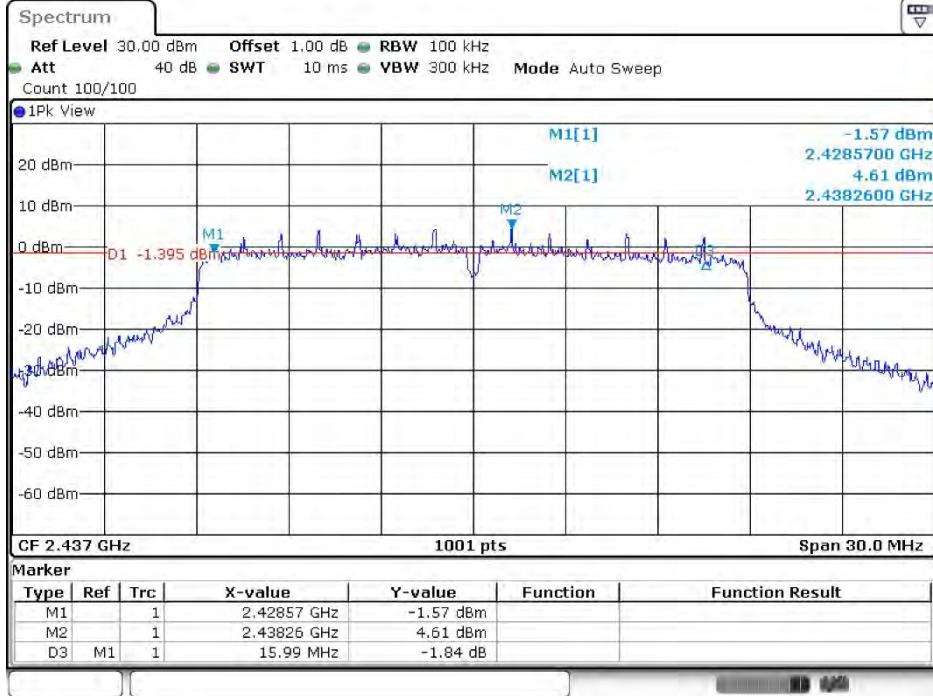


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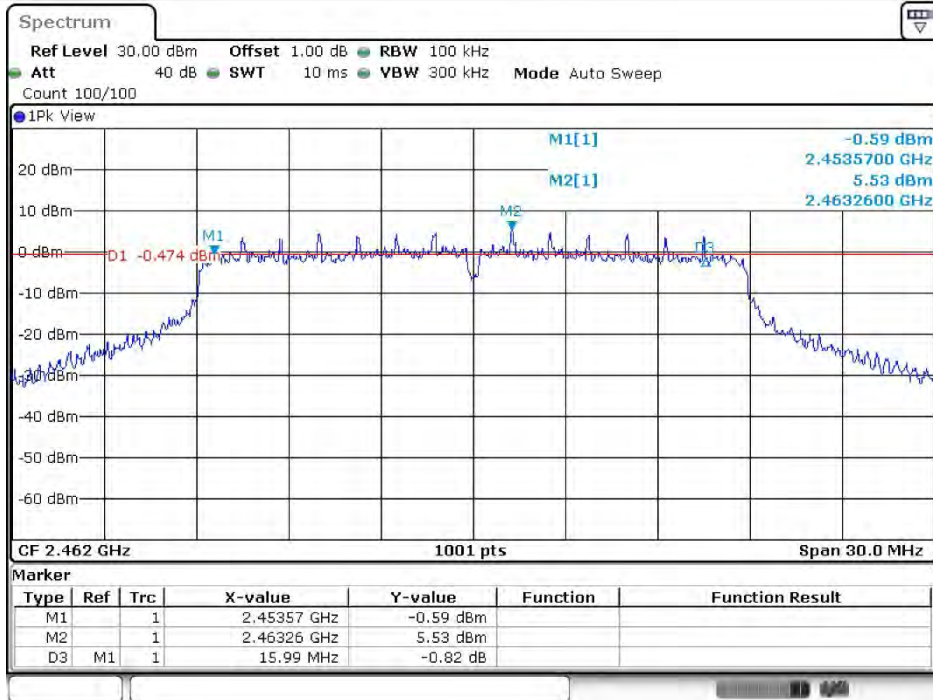
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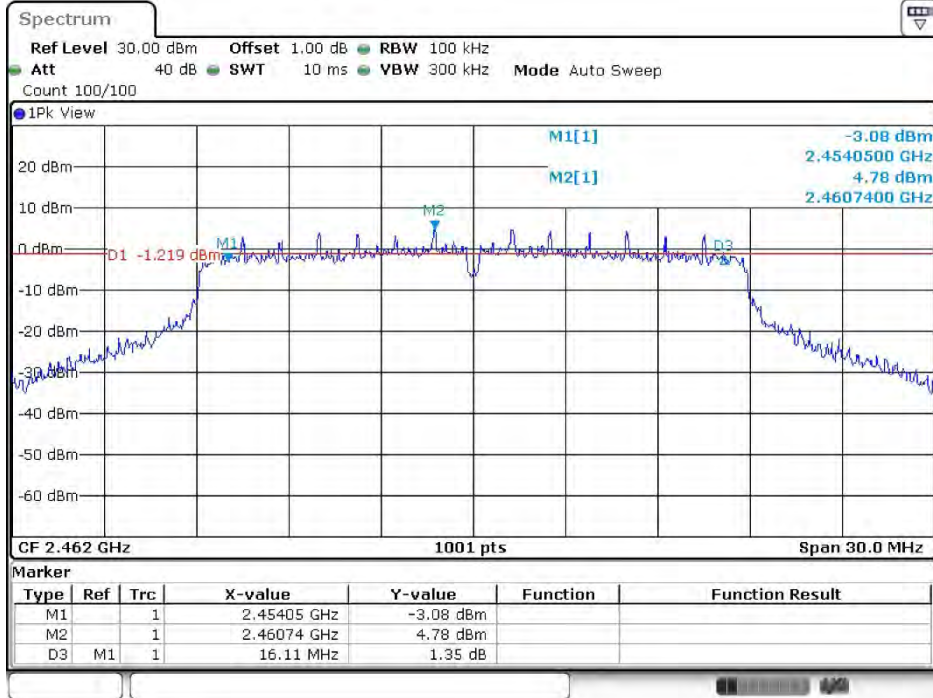


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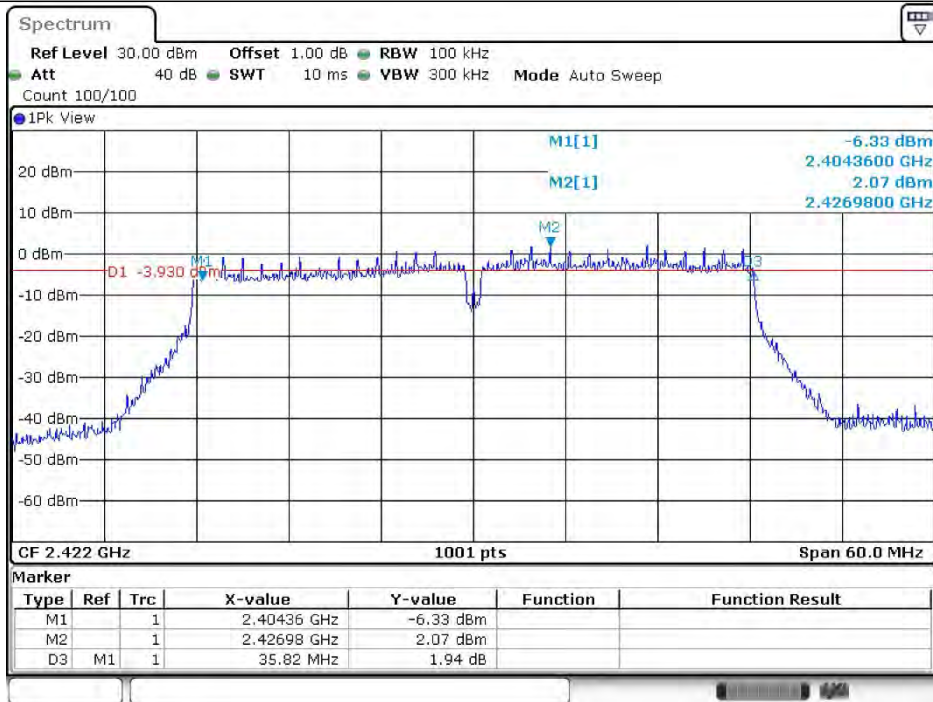
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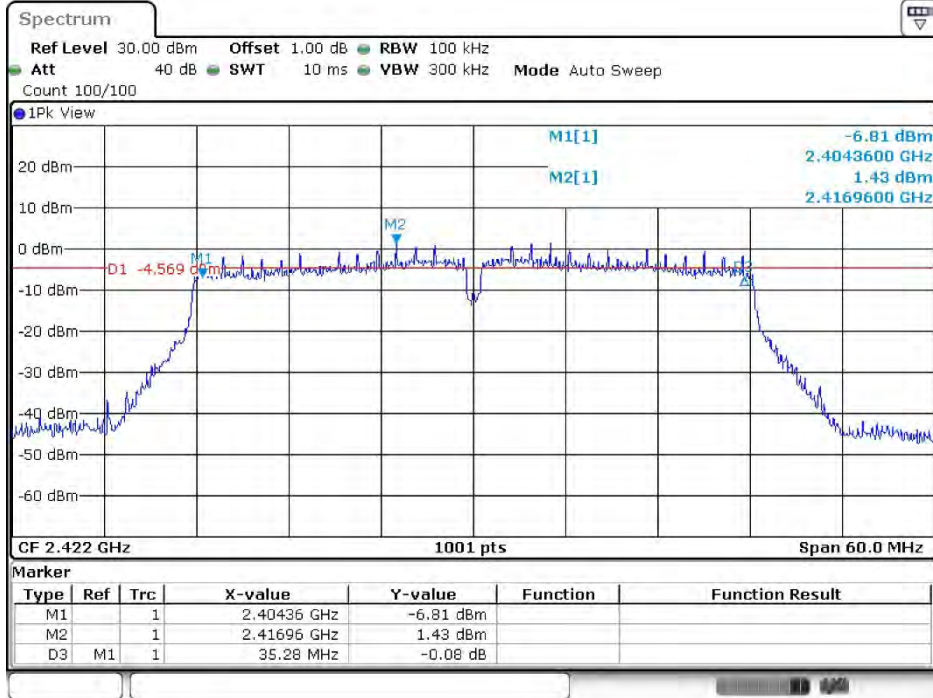


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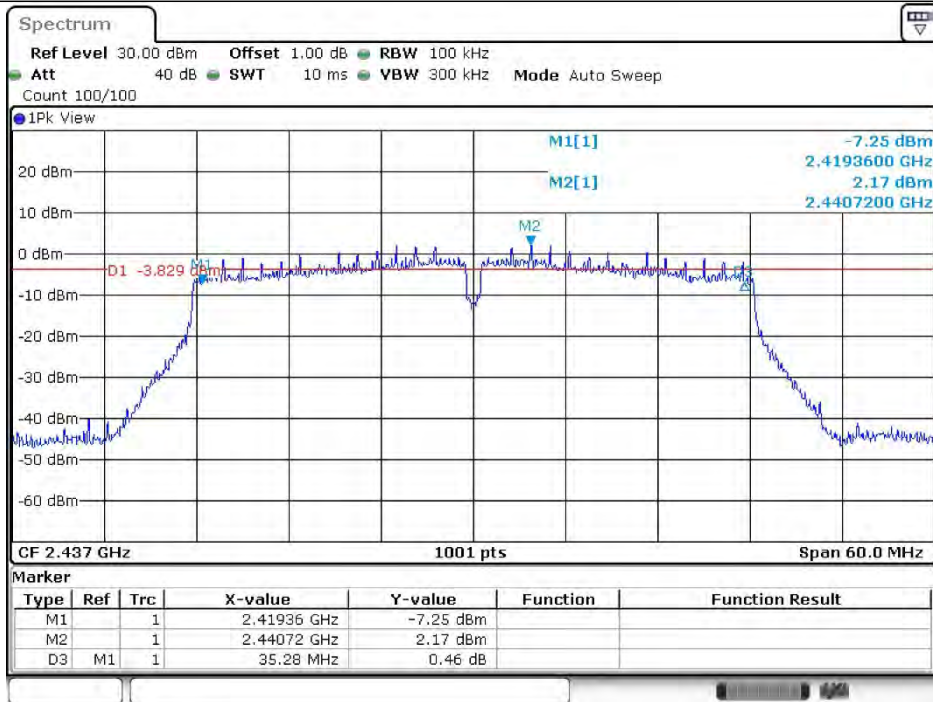
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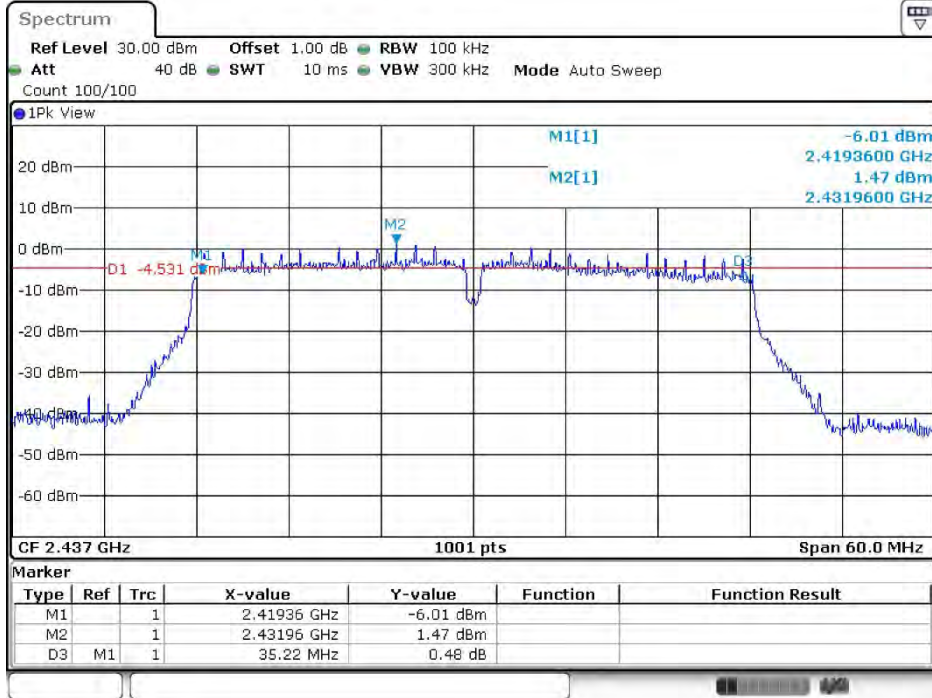


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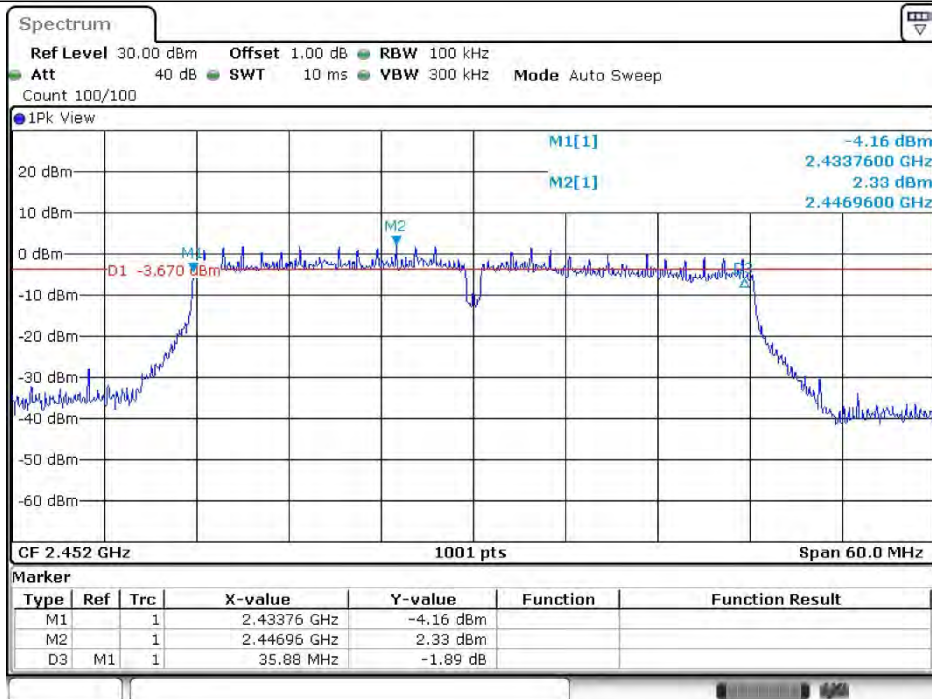
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11N40MIMO_Ant10_2437



Date: 25.MAY.2021 00:08:30

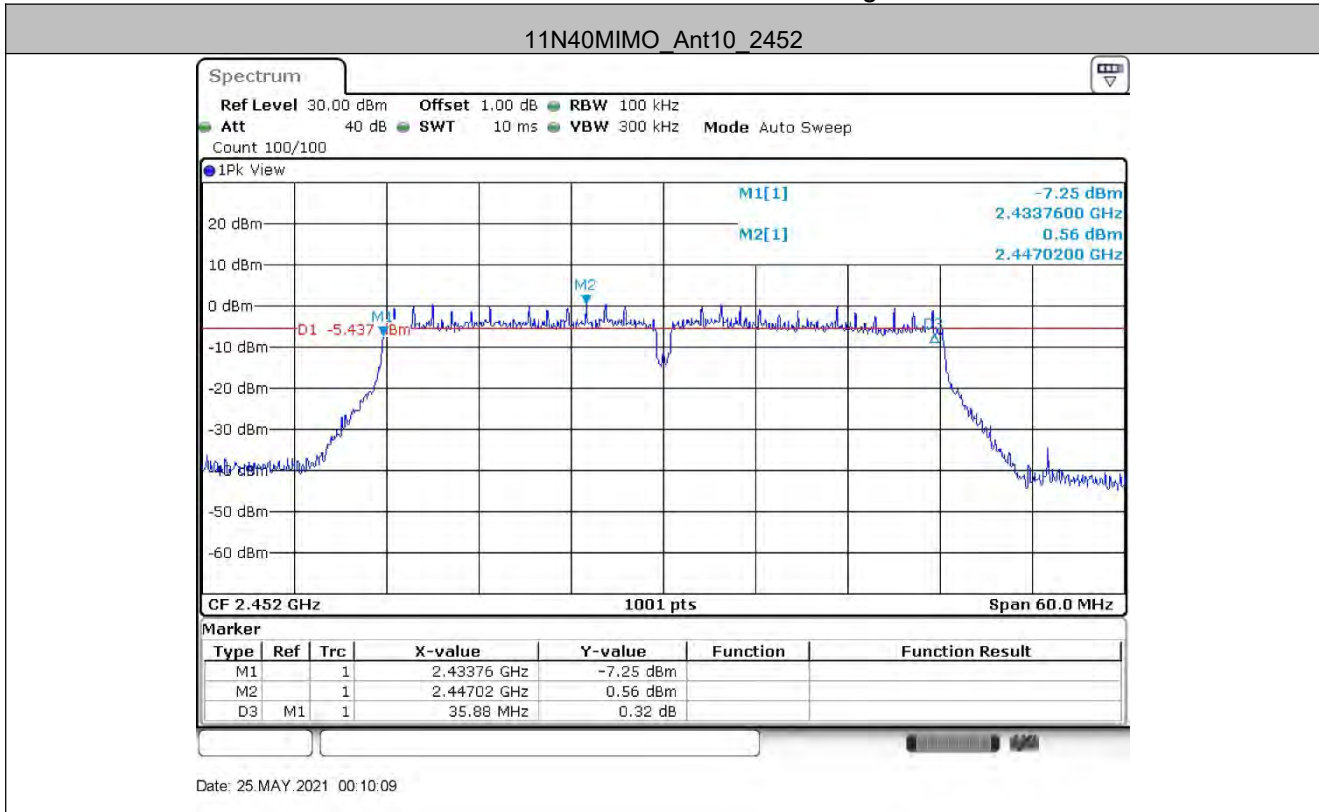
11N40MIMO_Ant9_2452



Date: 24.MAY.2021 23:20:27



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Occupied Channel Bandwidth
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant9	2412	13.996	2405.017	2419.013	---	PASS
	Ant10	2412	14.026	2405.107	2419.133	---	PASS
	Ant9	2437	13.786	2430.167	2443.953	---	PASS
	Ant10	2437	13.726	2430.017	2443.743	---	PASS
	Ant9	2462	13.936	2455.017	2468.953	---	PASS
	Ant10	2462	13.936	2455.077	2469.013	---	PASS
11G	Ant9	2412	16.903	2403.548	2420.452	---	PASS
	Ant10	2412	16.753	2403.668	2420.422	---	PASS
	Ant9	2437	16.633	2428.698	2445.332	---	PASS
	Ant10	2437	16.723	2428.548	2445.272	---	PASS
	Ant9	2462	16.843	2453.548	2470.392	---	PASS
	Ant10	2462	16.753	2453.608	2470.362	---	PASS
11N20SISO	Ant9	2412	18.072	2402.949	2421.021	---	PASS
	Ant10	2412	17.982	2403.069	2421.051	---	PASS
	Ant9	2437	17.772	2428.129	2445.901	---	PASS
	Ant10	2437	17.862	2428.009	2445.871	---	PASS
	Ant9	2462	18.012	2452.979	2470.991	---	PASS
	Ant10	2462	17.952	2453.039	2470.991	---	PASS
11N40SISO	Ant9	2422	36.384	2403.898	2440.282	---	PASS
	Ant10	2422	36.204	2403.958	2440.162	---	PASS
	Ant9	2437	36.024	2419.018	2455.042	---	PASS
	Ant10	2437	36.204	2418.838	2455.042	---	PASS
	Ant9	2452	36.324	2433.778	2470.102	---	PASS
	Ant10	2452	36.444	2433.718	2470.162	---	PASS
11B-CDD	Ant9	2412	14.086	2404.987	2419.073	---	PASS
	Ant10	2412	13.876	2405.257	2419.133	---	PASS
	Ant9	2437	13.846	2430.107	2443.953	---	PASS
	Ant10	2437	13.816	2429.987	2443.803	---	PASS
	Ant9	2462	13.996	2455.017	2469.013	---	PASS



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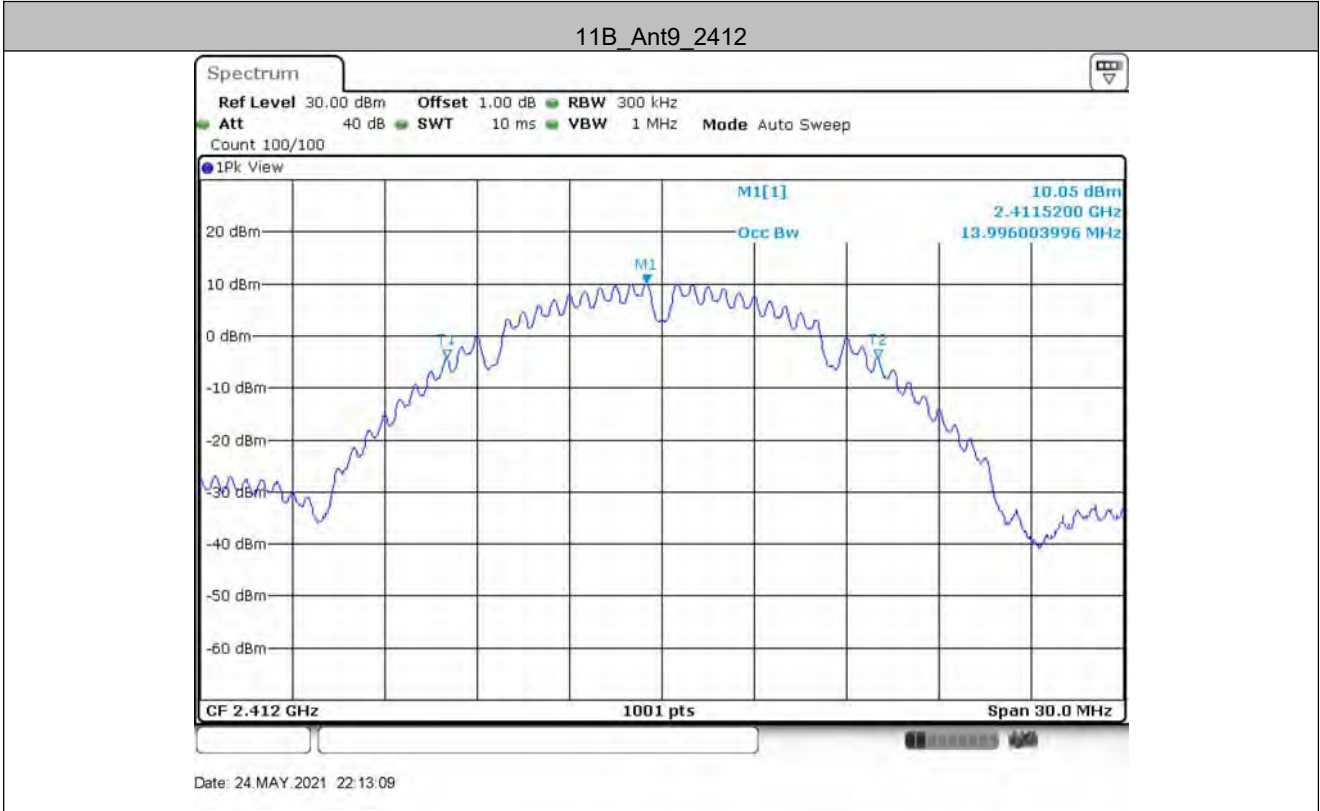
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

	Ant10	2462	13.936	2455.107	2469.043	---	PASS
11G-CDD	Ant9	2412	16.903	2403.548	2420.452	---	PASS
	Ant10	2412	16.663	2403.728	2420.392	---	PASS
	Ant9	2437	16.633	2428.668	2445.302	---	PASS
	Ant10	2437	16.633	2428.608	2445.242	---	PASS
	Ant9	2462	16.813	2453.578	2470.392	---	PASS
	Ant10	2462	16.603	2453.698	2470.302	---	PASS
	11N20MIMO	Ant9	2412	18.102	2402.979	2421.081	---
Ant10		2412	17.862	2403.129	2420.991	---	PASS
Ant9		2437	17.832	2428.069	2445.901	---	PASS
Ant10		2437	17.832	2428.009	2445.841	---	PASS
Ant9		2462	18.042	2452.979	2471.021	---	PASS
Ant10		2462	17.832	2453.099	2470.931	---	PASS
11N40MIMO	Ant9	2422	36.264	2403.958	2440.222	---	PASS
	Ant10	2422	36.144	2403.958	2440.102	---	PASS
	Ant9	2437	35.964	2419.018	2454.982	---	PASS
	Ant10	2437	36.204	2418.838	2455.042	---	PASS
	Ant9	2452	36.324	2433.778	2470.102	---	PASS
	Ant10	2452	36.384	2433.778	2470.162	---	PASS



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Test Graphs



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11B_Ant10_2412



Date: 24 MAY.2021 23:24:29

11B_Ant9_2437

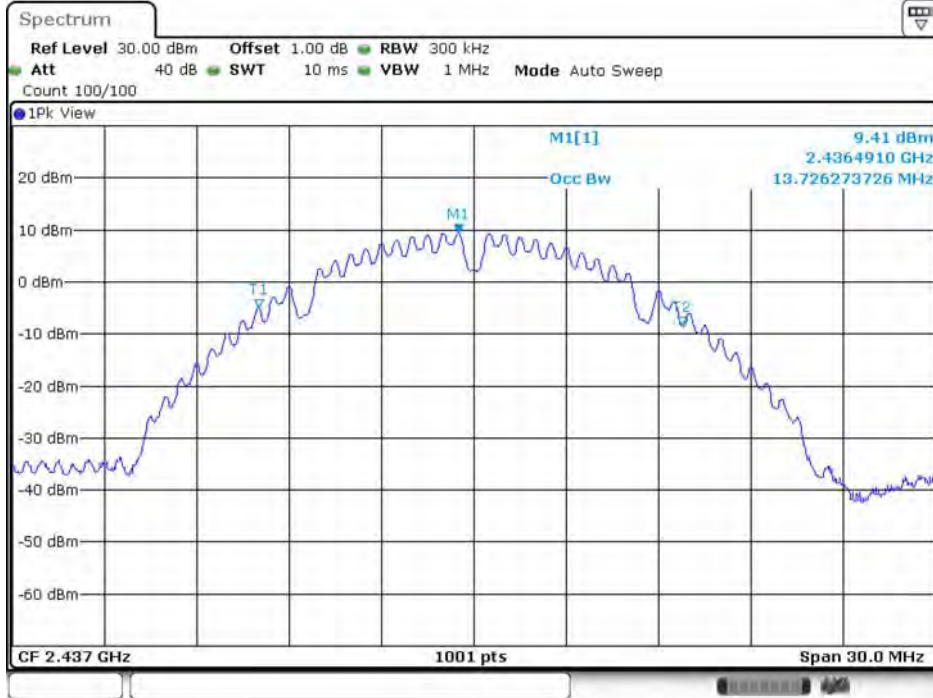


Date: 24 MAY.2021 22:15:26



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11B_Ant10_2437



Date: 24 MAY.2021 23:27:36

11B_Ant9_2462



Date: 24 MAY.2021 22:17:03



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11B_Ant10_2462



Date: 24 MAY.2021 23:29:30

11G_Ant9_2412



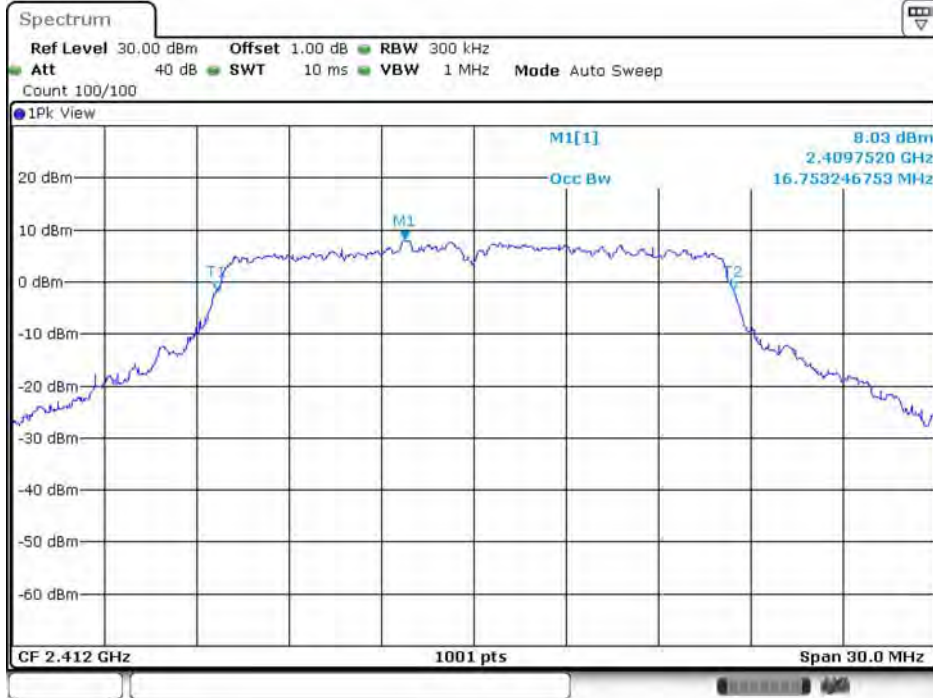
Date: 24 MAY.2021 22:18:58



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11G_Ant10_2412



Date: 24 MAY.2021 23:31:29

11G_Ant9_2437



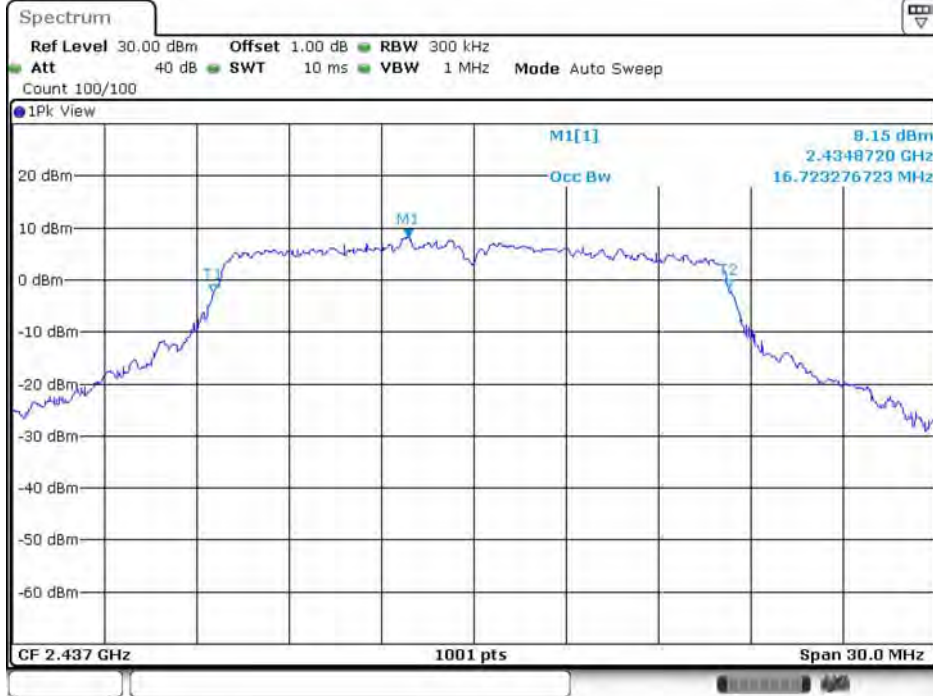
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11G_Ant10_2462



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11N20SISO_Ant9_2412



Date: 24 MAY.2021 22:31:34



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