

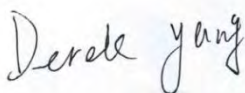
FCC TEST REPORT

Application No.: ZR/2021/50040
Applicant: Great Talent Technology Limited
Address of Applicant: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer: Great Talent Technology Limited
Address of Manufacturer: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
EUT Description: smart phone
Model No.: U696CL
Trade Mark: UMX
FCC ID: 2ALZM-U696CL
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2021/7/2
Date of Test: 2021/7/2 to 2021/7/23
Date of Issue: 2021/8/3

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		2021-08-03		Original

Authorized for issue by:		
Prepared By		 (Dee Zheng) / Engineer
Checked By		 (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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Contents

1	Version	2
2	Test Summary	3
3	General Information	5
3.1	Details of Client	5
3.2	Test Location	5
3.3	Test Facility	6
3.4	General Description of EUT	7
3.5	Test Environment and Mode	8
3.6	Description of Support Units	8
4	Test results and Measurement Data	9
4.1	Antenna Requirement	9
4.2	AC Power Line Conducted Emissions	10
4.3	Duty Cycle	14
4.4	Conducted Output Power	15
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	16
4.6	Power Spectral Density	17
4.7	Band-edge for RF Conducted Emissions	18
4.8	RF Conducted Spurious Emissions	19
4.9	Radiated Spurious Emissions	20
4.9.1	Radiated emission below 1GHz	23
4.9.2	Transmitter emission above 1GHz	25
4.10	Restricted bands around fundamental frequency	43
4.10.1	Restricted bands around fundamental frequency	45
5	Measurement Uncertainty (95% confidence levels, k=2)	57
6	Equipment List	58
7	Photographs - EUT Constructional Details	60



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3 General Information

3.1 Details of Client

Applicant:	Great Talent Technology Limited
Address of Applicant	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

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,Jack Huang

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.:	U696CL
Trade Mark:	UMX
Hardware Version:	U696CL_V1.0
Software Version:	UMX_U696CL_V11.01.01.01.061711
IEEE 802.11 WLAN Mode Supported	☒ 802.11B (20 MHz channel bandwidth); ☒ 802.11G (20 MHz channel bandwidth); ☒ 802.11N (20 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11B/G/N), ☐ MIMO (for 802.11N): 2 Tx & 2 Rx, ☐ Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	2.01dBi



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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		

Remark:

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

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

3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
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)
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. 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. The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.01dBi.	



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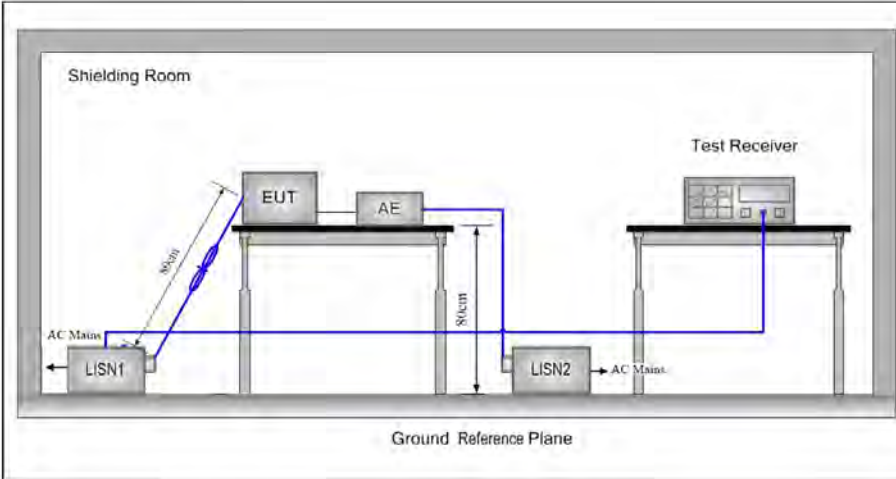
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4.2 AC Power Line Conducted Emissions

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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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, 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.		



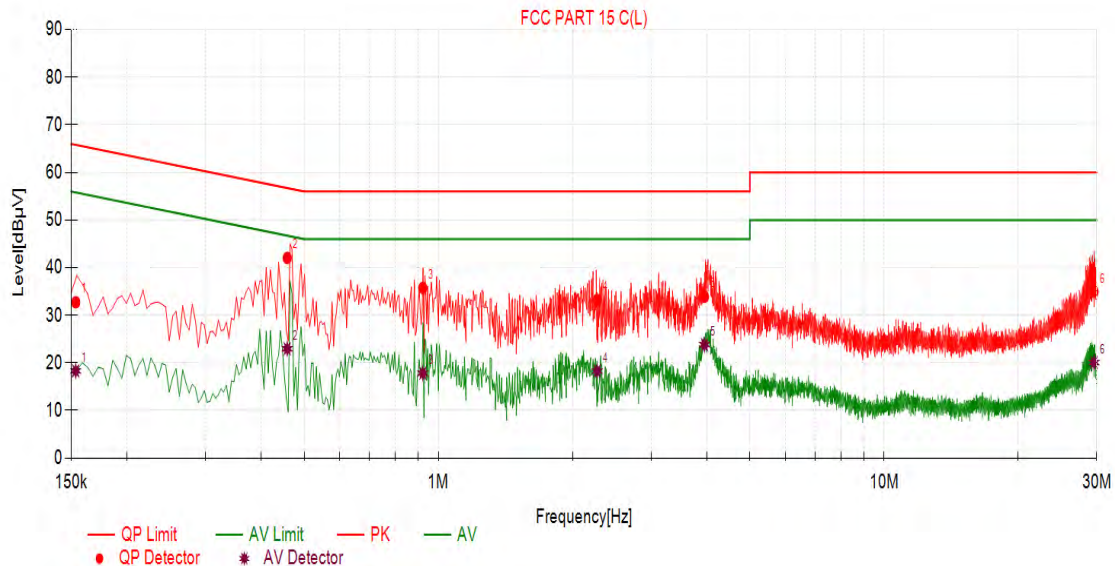
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst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



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]
1	0.1536	10.10	32.74	65.80	33.06	18.33	55.80	37.47
2	0.4581	10.15	42.05	56.73	14.68	22.96	46.73	23.77
3	0.9229	10.18	35.75	56.00	20.25	17.82	46.00	28.18
4	2.2717	10.14	33.22	56.00	22.78	18.27	46.00	27.73
5	3.9552	9.83	33.89	56.00	22.11	23.84	46.00	22.16
6	29.5862	13.67	34.93	60.00	25.07	20.08	50.00	29.92



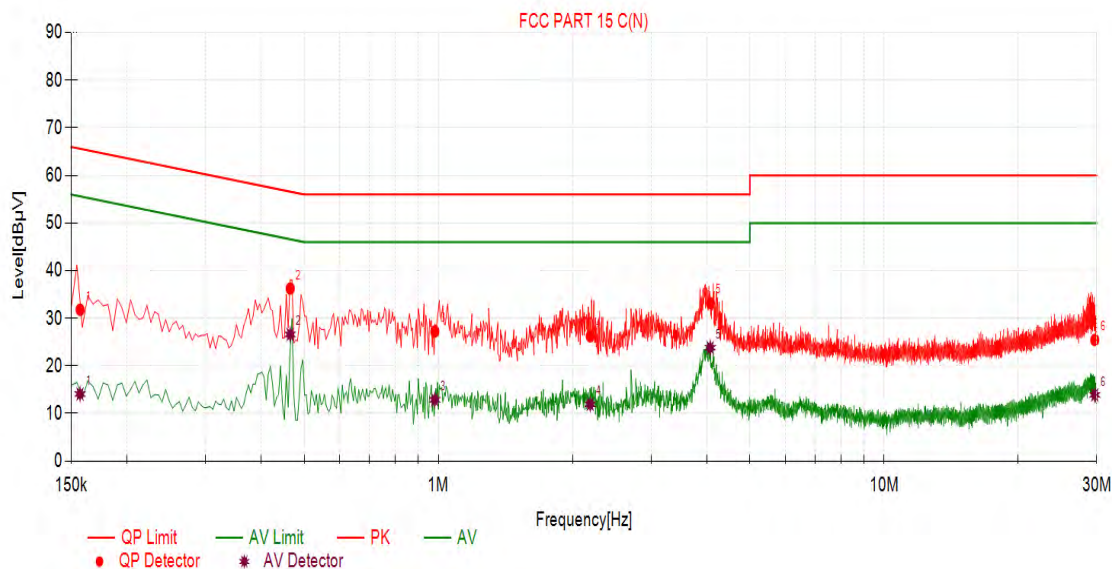
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Report No.: ZR/2021/5004004
Page: 13 of 137

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]
1	0.1571	10.10	31.79	65.62	33.83	14.09	55.62	41.53
2	0.4651	10.15	36.25	56.60	20.35	26.60	46.60	20.00
3	0.9819	10.18	27.24	56.00	28.76	12.88	46.00	33.12
4	2.1916	10.14	26.23	56.00	29.77	11.94	46.00	34.06
5	4.0753	9.80	33.20	56.00	22.80	23.82	46.00	22.18
6	29.7003	13.62	25.46	60.00	34.54	13.90	50.00	36.10

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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Report No.: ZR/2021/5004004
Page: 14 of 137

4.3 Duty Cycle

The detailed test data see: **Appendix**

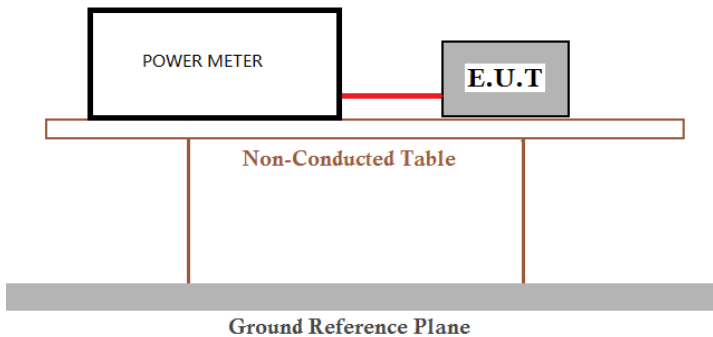


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4.4 Conducted Output Power

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);
Limit:	30dBm
Test Results:	Pass

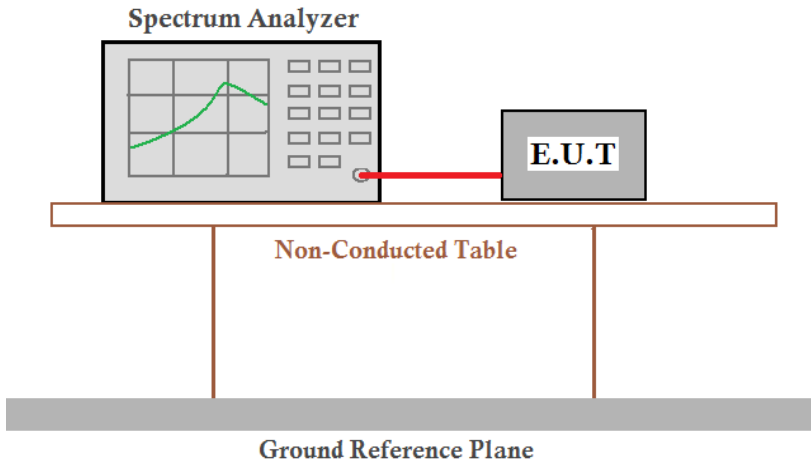
The detailed test data see: **Appendix**



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

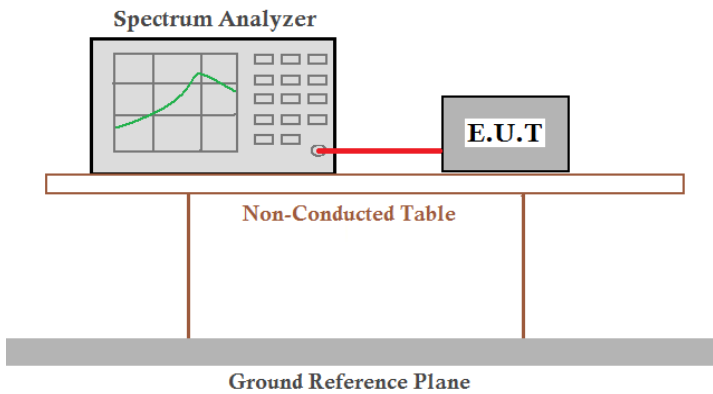
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of 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);
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);
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

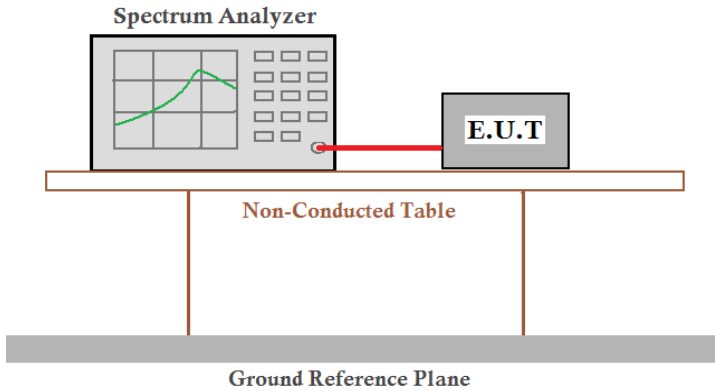
The detailed test data see: **Appendix**



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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).
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

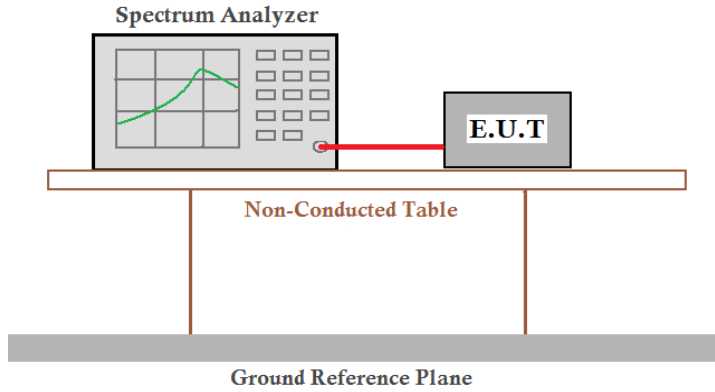
The detailed test data see: **Appendix**



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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);.
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 $\geq$ 0.98) $\geq$ 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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Test Setup:

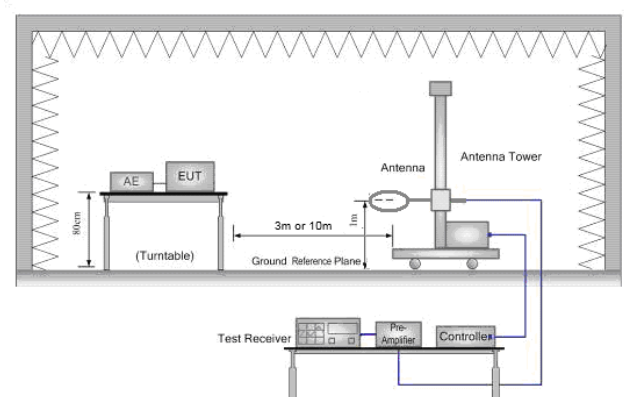


Figure 1. Below 30MHz

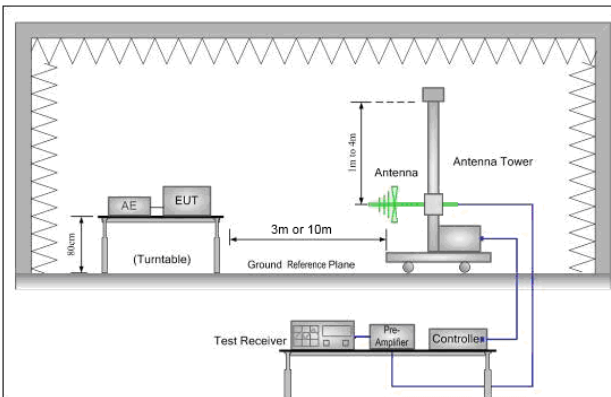


Figure 2. 30MHz to 1GHz

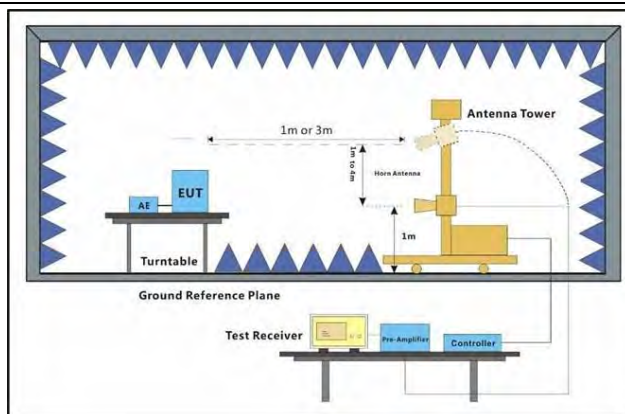


Figure 3. Above 1 GHz

Test Procedure:

- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit



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Report No.: ZR/2021/5004004

Page: 22 of 137

	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. h. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete.
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

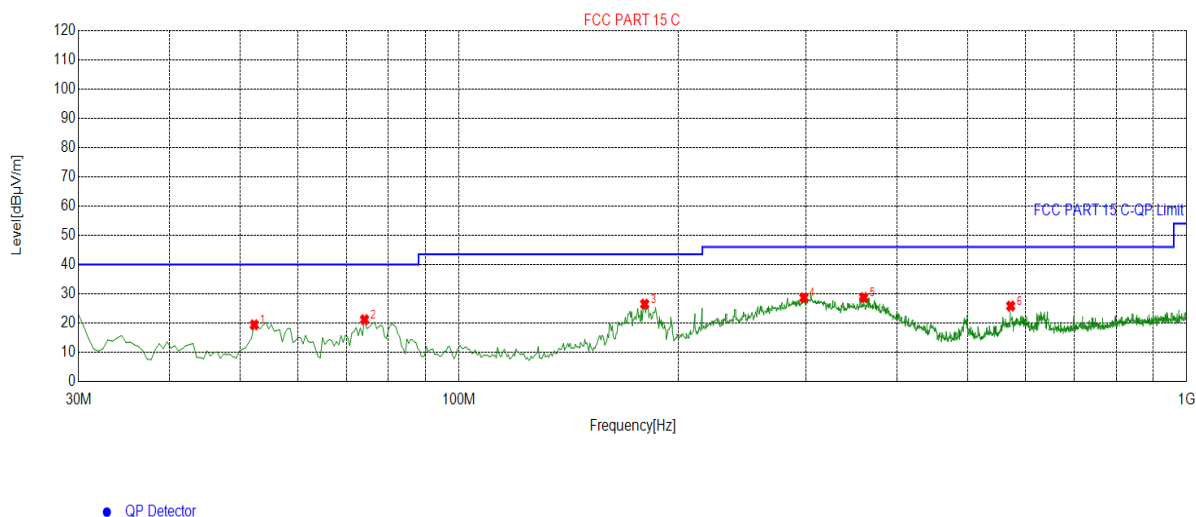


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4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3212	19.40	-22.03	40.00	20.60	174	42	Horizontal
2	74.1571	21.17	-24.13	40.00	18.83	254	19	Horizontal
3	179.940	26.48	-23.58	43.50	17.02	321	19	Horizontal
4	297.853	28.65	-18.92	46.00	17.35	254	288	Horizontal
5	359.965	28.71	-17.55	46.00	17.29	265	138	Horizontal
6	572.986	25.82	-12.88	46.00	20.18	214	169	Horizontal

Final Data List

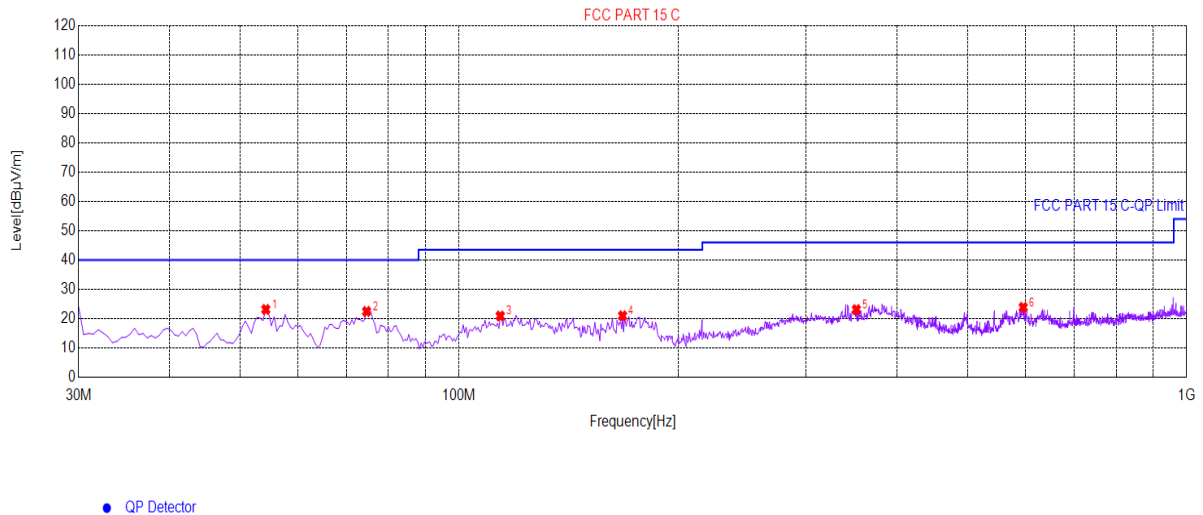


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Page: 24 of 137

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.2621	23.13	-22.08	40.00	16.87	271	65	Vertical
2	74.6423	22.45	-24.17	40.00	17.55	241	107	Vertical
3	113.947	20.90	-22.77	43.50	22.60	258	19	Vertical
4	167.808	20.96	-23.91	43.50	22.54	263	310	Vertical
5	351.715	23.08	-17.28	46.00	22.92	284	38	Vertical
6	596.278	23.85	-12.14	46.00	22.15	257	15	Vertical

Final Data List



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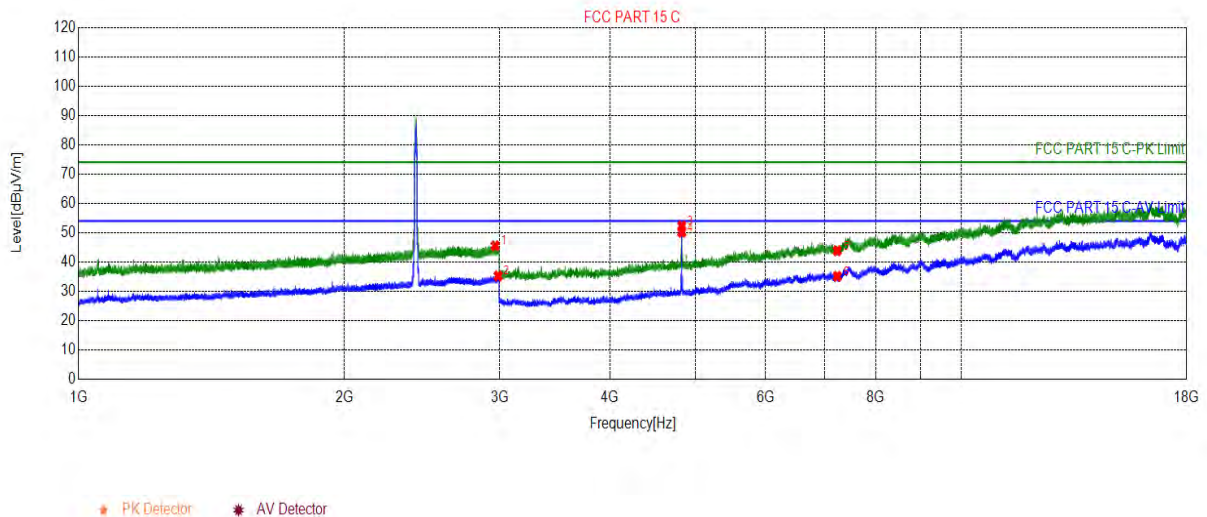
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4.9.2 Transmitter emission above 1GHz

802.11b_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.3983	45.55	7.80	74.00	28.45	186	136	Horizontal
2	2987.6994	35.25	7.85	54.00	18.75	265	2	Horizontal
3	4824.0730	52.33	-18.20	74.00	21.67	243	14	Horizontal
4	4824.6730	50.12	-18.20	54.00	3.88	268	14	Horizontal
5	7236.0000	43.83	-10.83	74.00	30.17	156	44	Horizontal
6	7236.0000	35.14	-10.83	54.00	18.86	127	218	Horizontal

Final Data List



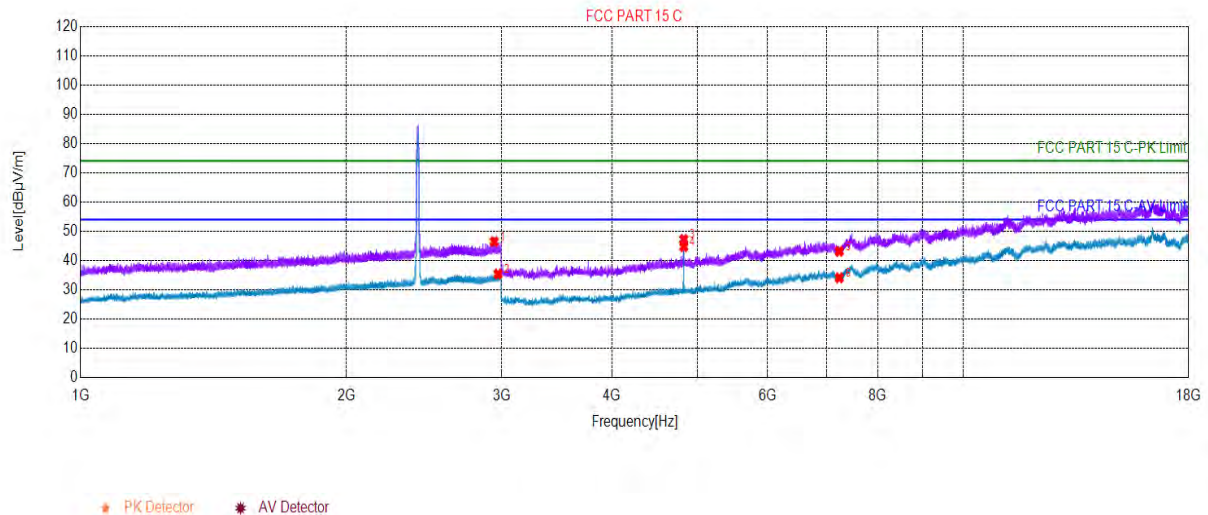
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802.11b_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.7971	46.45	7.95	74.00	27.55	186	199	Vertical
2	2971.2986	35.36	7.73	54.00	18.64	245	124	Vertical
3	4824.0730	47.22	-18.20	74.00	26.78	225	145	Vertical
4	4824.6730	44.71	-18.20	54.00	9.29	165	130	Vertical
5	7236.0000	43.11	-10.83	74.00	30.89	247	289	Vertical
6	7236.0000	34.08	-10.83	54.00	19.92	394	318	Vertical

Final Data List



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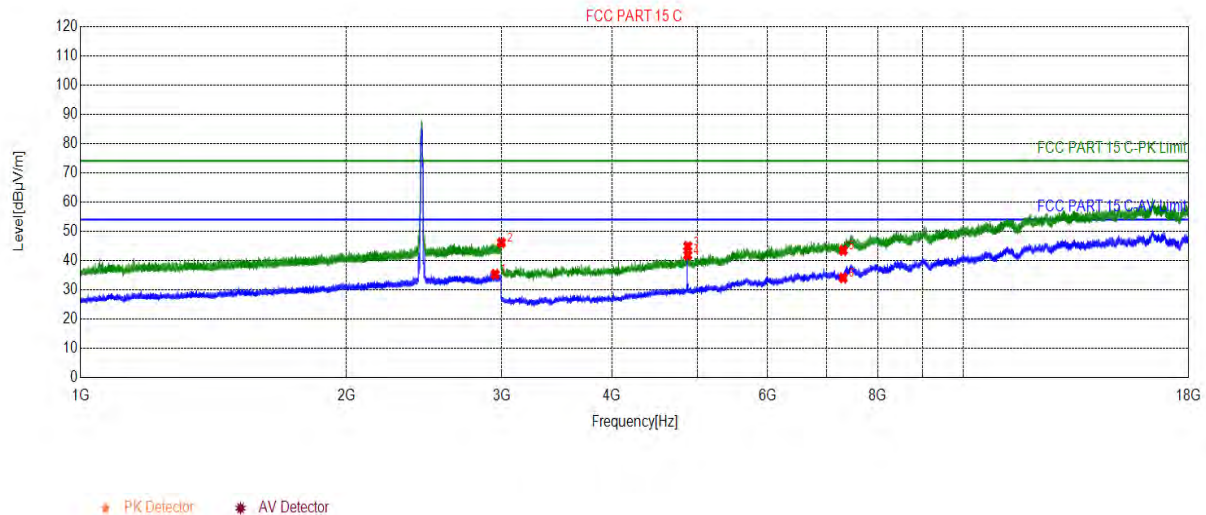
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802.11b_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.5975	35.28	7.98	54.00	18.72	189	236	Horizontal
2	2997.2999	46.08	8.05	74.00	27.92	253	84	Horizontal
3	4874.0000	44.85	-18.02	74.00	29.15	266	72	Horizontal
4	4874.0000	41.85	-18.02	54.00	12.15	345	14	Horizontal
5	7311.0000	43.43	-10.82	74.00	30.57	185	247	Horizontal
6	7311.0000	34.06	-10.82	54.00	19.94	249	58	Horizontal

Final Data List



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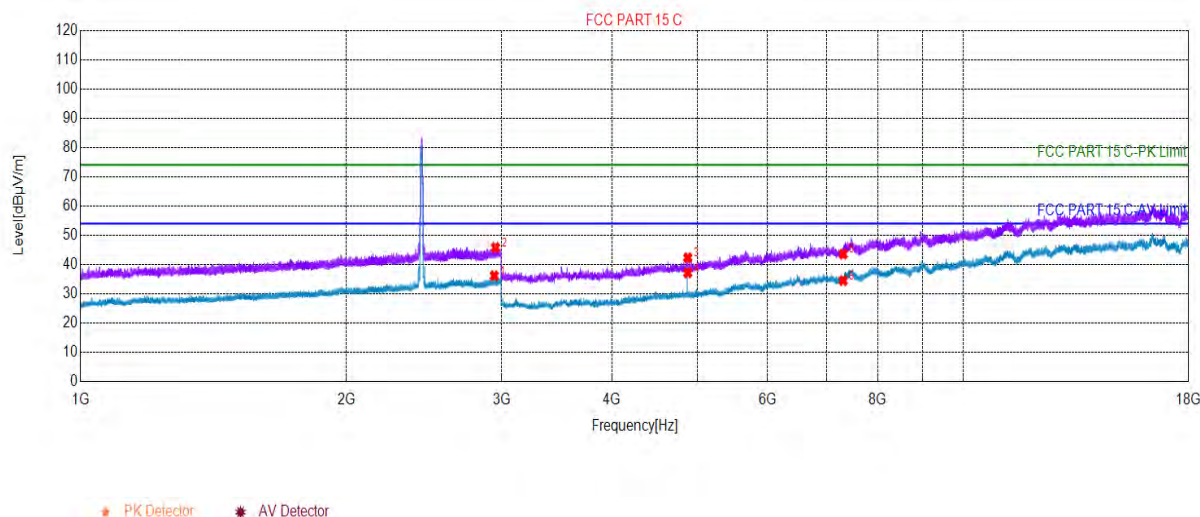
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802.11b_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.3971	36.13	7.95	54.00	17.87	155	312	Vertical
2	2951.9976	45.80	7.97	74.00	28.20	241	135	Vertical
3	4874.0000	42.30	-18.02	74.00	31.70	268	217	Vertical
4	4874.0000	37.15	-18.02	54.00	16.85	254	232	Vertical
5	7311.0000	43.55	-10.82	74.00	30.45	291	217	Vertical
6	7311.0000	34.49	-10.82	54.00	19.51	235	290	Vertical

Final Data List



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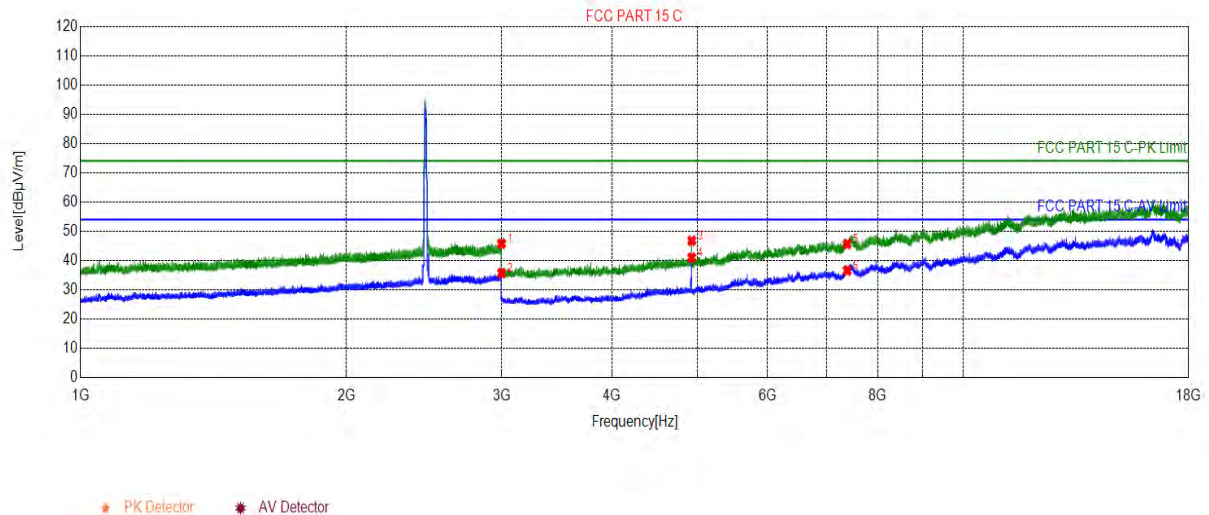
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802.11b_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.4999	45.78	8.08	74.00	28.22	185	312	Horizontal
2	2999.6000	35.68	8.12	54.00	18.32	361	358	Horizontal
3	4924.0000	46.75	-17.70	74.00	27.25	245	15	Horizontal
4	4924.0000	40.95	-17.70	54.00	13.05	292	30	Horizontal
5	7386.0000	45.66	-9.56	74.00	28.34	145	290	Horizontal
6	7386.0000	36.58	-9.56	54.00	17.42	182	89	Horizontal

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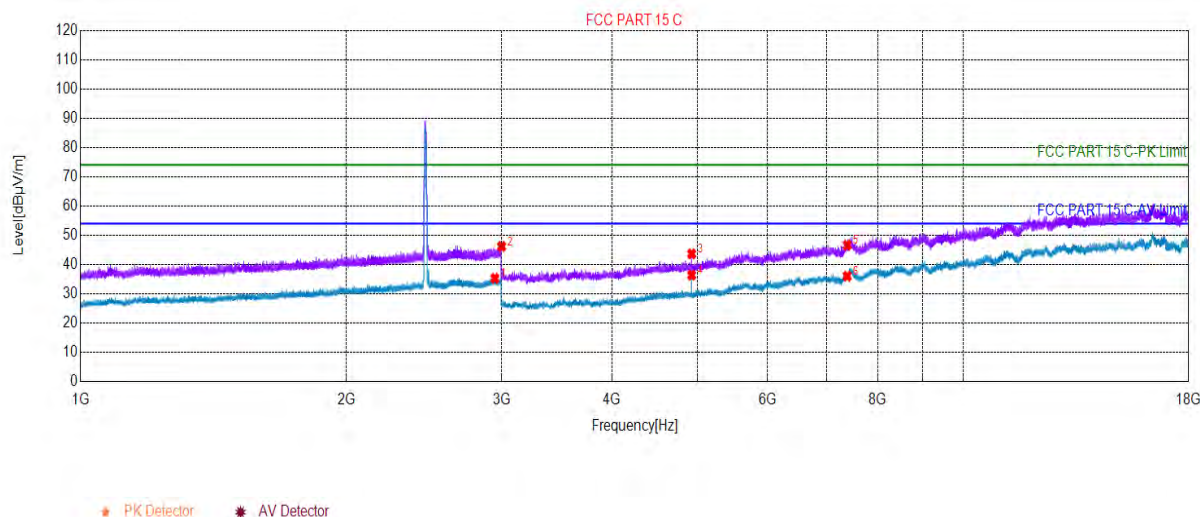
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802.11b_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.8973	35.25	7.97	54.00	18.75	187	262	Vertical
2	2999.7000	46.17	8.12	74.00	27.83	265	213	Vertical
3	4924.0000	43.64	-17.70	74.00	30.36	283	144	Vertical
4	4924.0000	36.37	-17.70	54.00	17.63	264	102	Vertical
5	7386.0000	46.61	-9.56	74.00	27.39	285	58	Vertical
6	7386.0000	36.03	-9.56	54.00	17.97	342	144	Vertical

Final Data List



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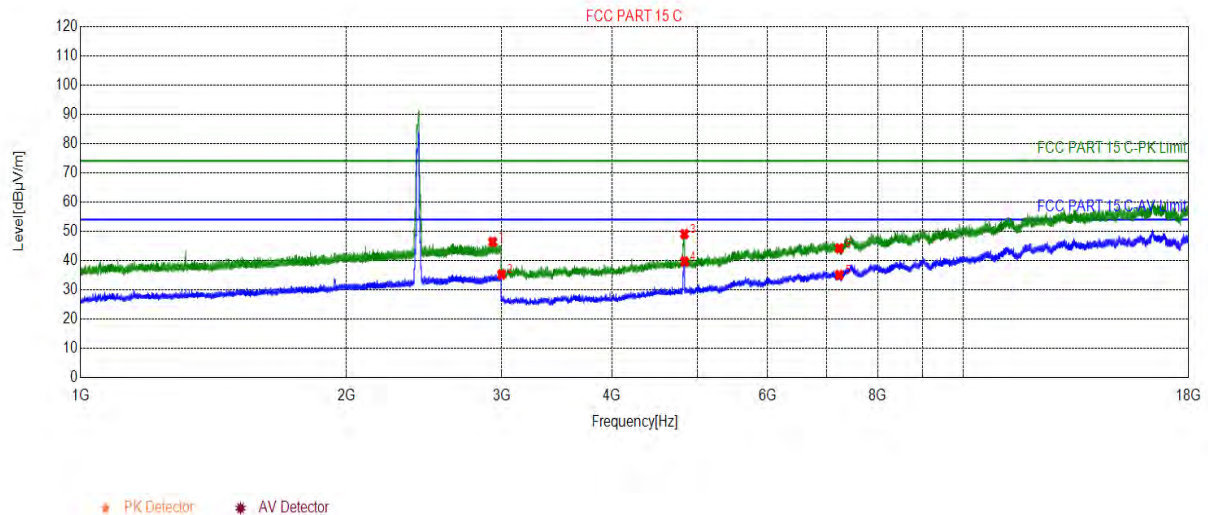
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802.11g_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2930.7965	46.36	8.00	74.00	27.64	186	311	Horizontal
2	2999.2000	35.23	8.11	54.00	18.77	302	73	Horizontal
3	4832.4733	49.05	-18.17	74.00	24.95	157	29	Horizontal
4	4833.6733	39.65	-18.16	54.00	14.35	192	43	Horizontal
5	7236.0000	35.07	-10.83	54.00	18.93	168	334	Horizontal
6	7236.0000	44.19	-10.83	74.00	29.81	128	3	Horizontal

Final Data List

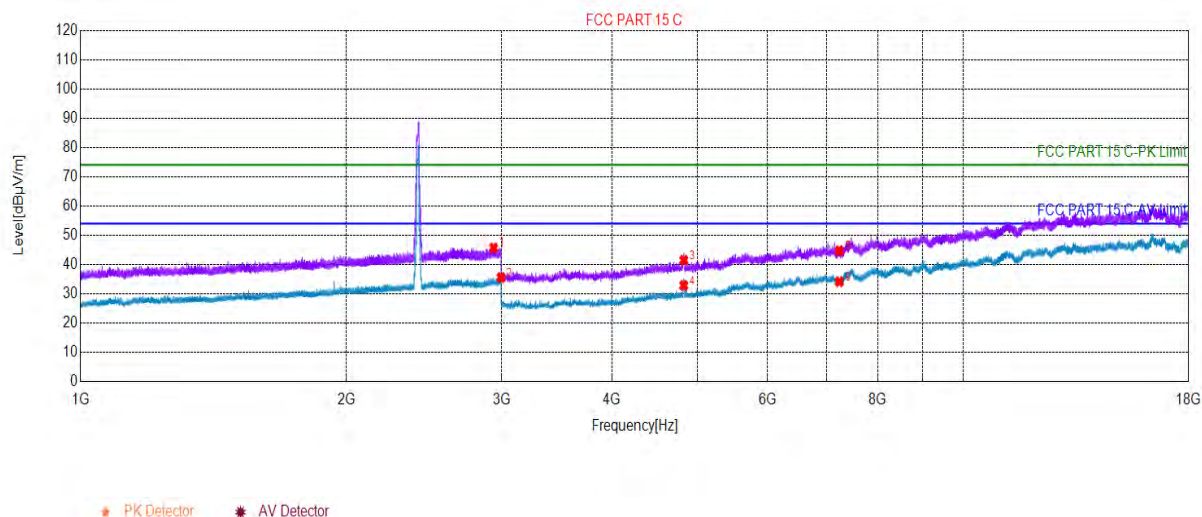


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802.11g_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.1969	45.69	7.96	74.00	28.31	392	22	Vertical
2	2994.6997	35.51	7.97	54.00	18.49	354	136	Vertical
3	4824.0000	41.43	-18.20	74.00	32.57	376	131	Vertical
4	4824.0000	32.83	-18.20	54.00	21.17	229	262	Vertical
5	7236.0000	44.71	-10.83	74.00	29.29	148	131	Vertical
6	7236.0000	34.14	-10.83	54.00	19.86	342	116	Vertical

Final Data List

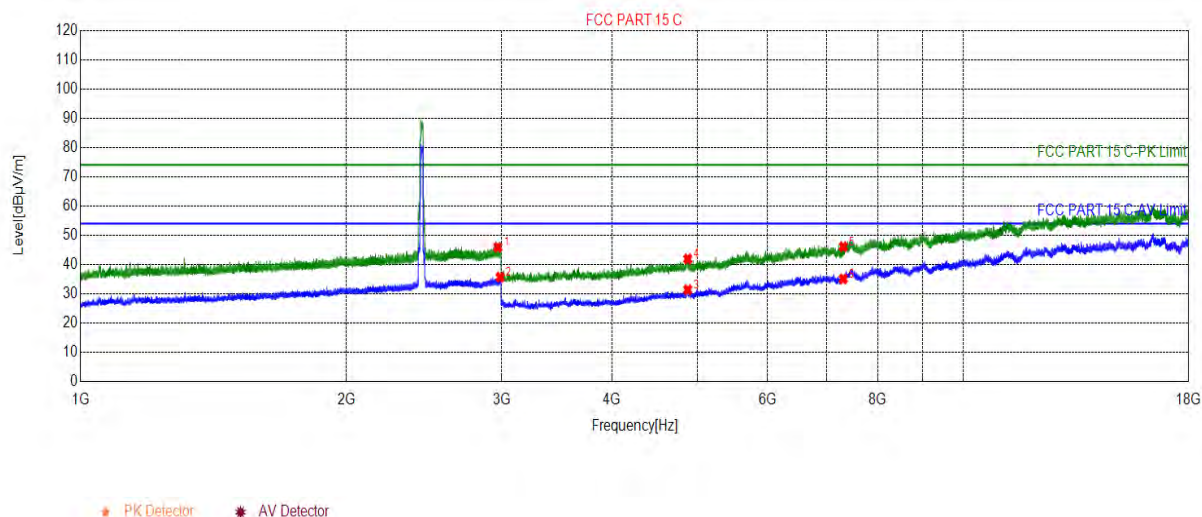


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802.11g_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2969.6985	45.91	7.71	74.00	28.09	167	162	Horizontal
2	2988.0994	35.67	7.84	54.00	18.33	262	174	Horizontal
3	4874.0000	31.37	-18.02	54.00	22.63	224	58	Horizontal
4	4874.0000	41.91	-18.02	74.00	32.09	335	131	Horizontal
5	7311.0000	46.06	-10.82	74.00	27.94	254	305	Horizontal
6	7311.0000	35.08	-10.82	54.00	18.92	128	348	Horizontal

Final Data List

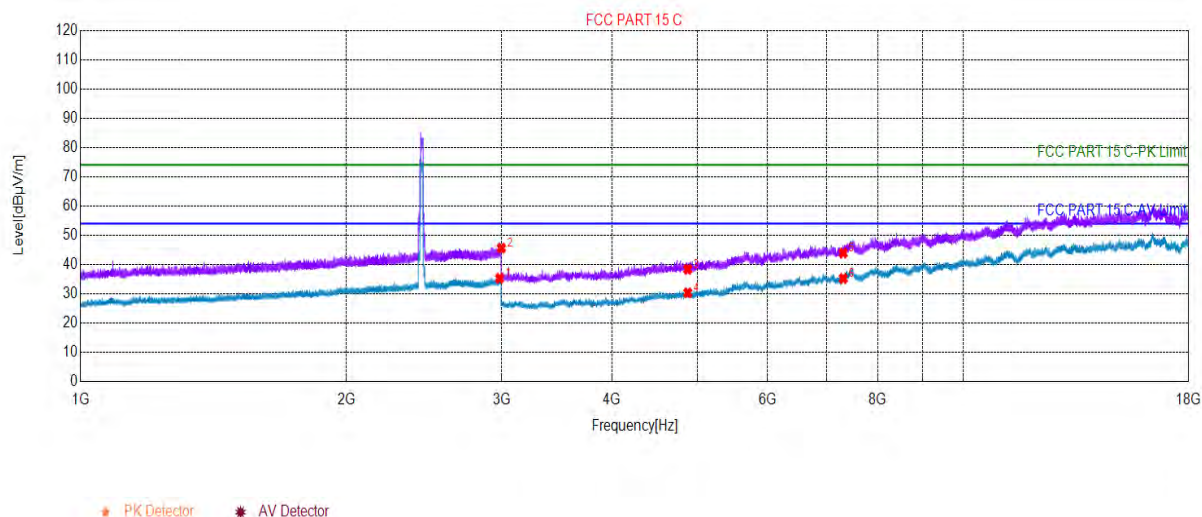


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802.11g_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.5992	35.29	7.88	54.00	18.71	286	214	Vertical
2	2997.4999	45.62	8.05	74.00	28.38	135	137	Vertical
3	4874.0000	38.35	-18.02	74.00	35.65	265	289	Vertical
4	4874.0000	30.31	-18.02	54.00	23.69	294	246	Vertical
5	7311.0000	43.92	-10.82	74.00	30.08	275	145	Vertical
6	7311.0000	35.21	-10.82	54.00	18.79	162	12	Vertical

Final Data List



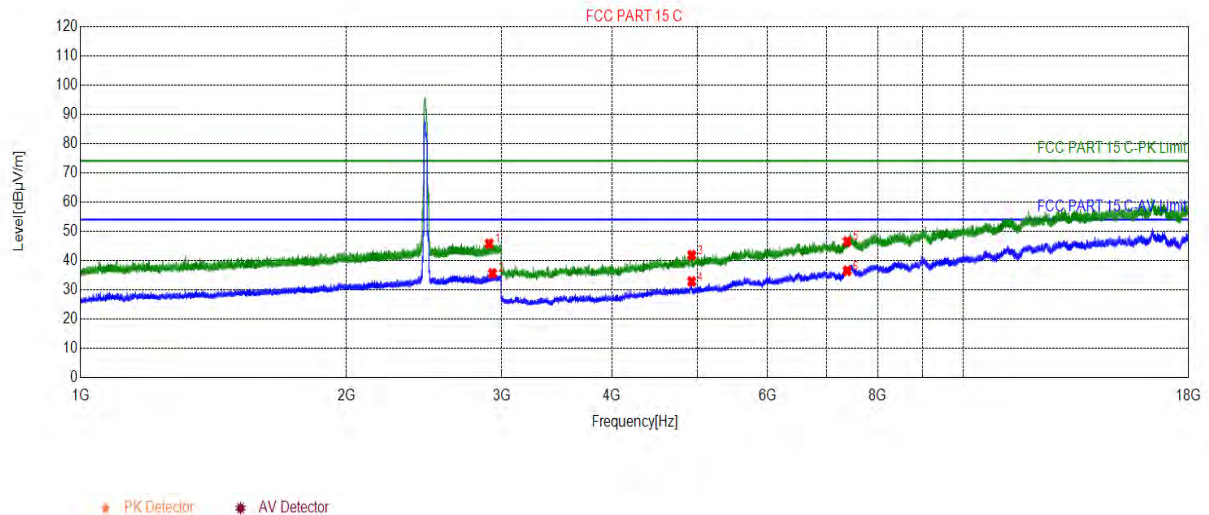
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802.11g_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2902.6951	45.75	7.68	74.00	28.25	183	160	Horizontal
2	2929.0965	35.61	7.99	54.00	18.39	124	160	Horizontal
3	4924.0000	41.82	-17.70	74.00	32.18	265	45	Horizontal
4	4924.0000	32.85	-17.70	54.00	21.15	385	45	Horizontal
5	7386.0000	46.54	-9.56	74.00	27.46	124	4	Horizontal
6	7386.0000	36.48	-9.56	54.00	17.52	268	160	Horizontal

Final Data List



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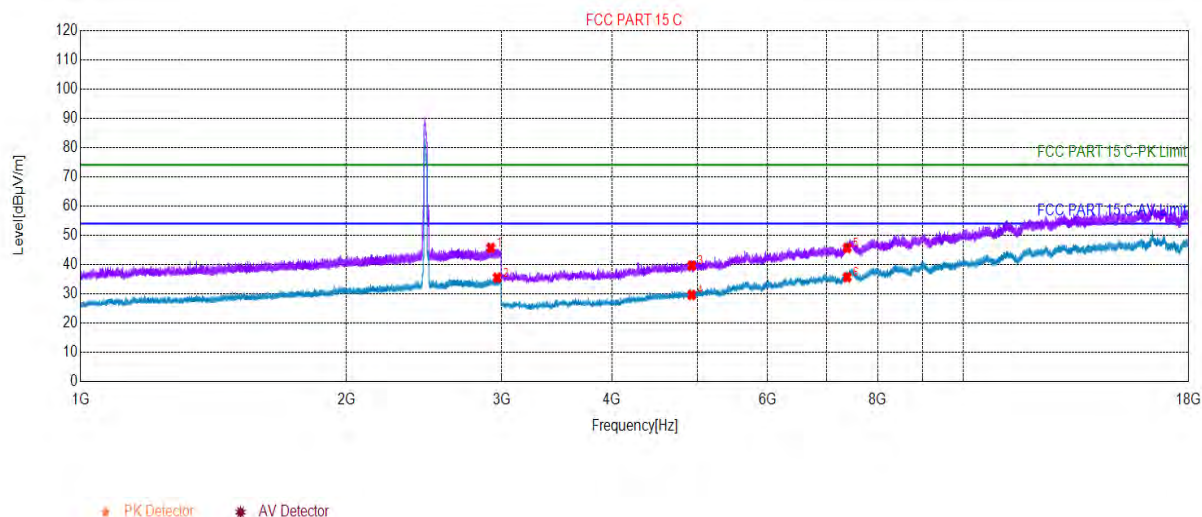
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802.11g_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.8958	45.68	7.80	74.00	28.32	296	324	Vertical
2	2965.0983	35.48	7.81	54.00	18.52	245	2	Vertical
3	4924.0000	39.60	-17.70	74.00	34.40	168	218	Vertical
4	4924.0000	29.57	-17.70	54.00	24.43	176	102	Vertical
5	7386.0000	45.65	-9.56	74.00	28.35	134	246	Vertical
6	7386.0000	35.62	-9.56	54.00	18.38	259	246	Vertical

Final Data List

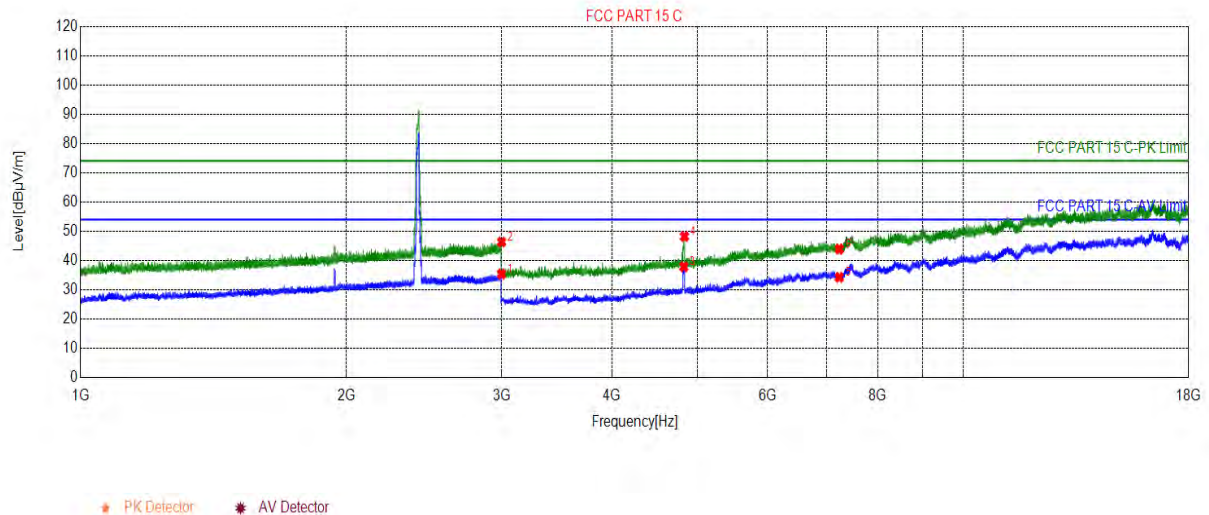


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802.11n20_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.5999	35.37	8.09	54.00	18.63	188	136	Horizontal
2	2999.2000	46.32	8.11	74.00	27.68	354	359	Horizontal
3	4824.6730	37.87	-18.20	54.00	16.13	224	44	Horizontal
4	4831.8733	48.20	-18.17	74.00	25.80	254	30	Horizontal
5	7236.0000	34.25	-10.83	54.00	19.75	169	89	Horizontal
6	7236.0000	43.92	-10.83	74.00	30.08	278	30	Horizontal

Final Data List

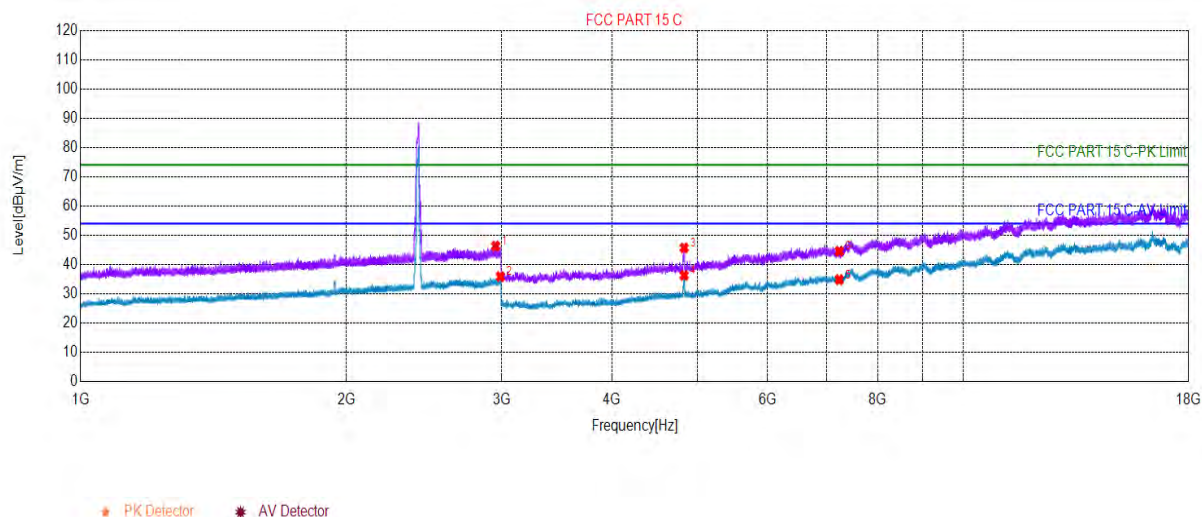


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802.11n20_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2952.8976	46.31	7.96	74.00	27.69	286	214	Vertical
2	2989.6995	35.87	7.83	54.00	18.13	245	314	Vertical
3	4828.2731	45.68	-18.19	74.00	28.32	239	129	Vertical
4	4828.2731	36.27	-18.19	54.00	17.73	351	144	Vertical
5	7236.0000	34.84	-10.83	54.00	19.16	256	202	Vertical
6	7236.0000	44.56	-10.83	74.00	29.44	342	28	Vertical

Final Data List

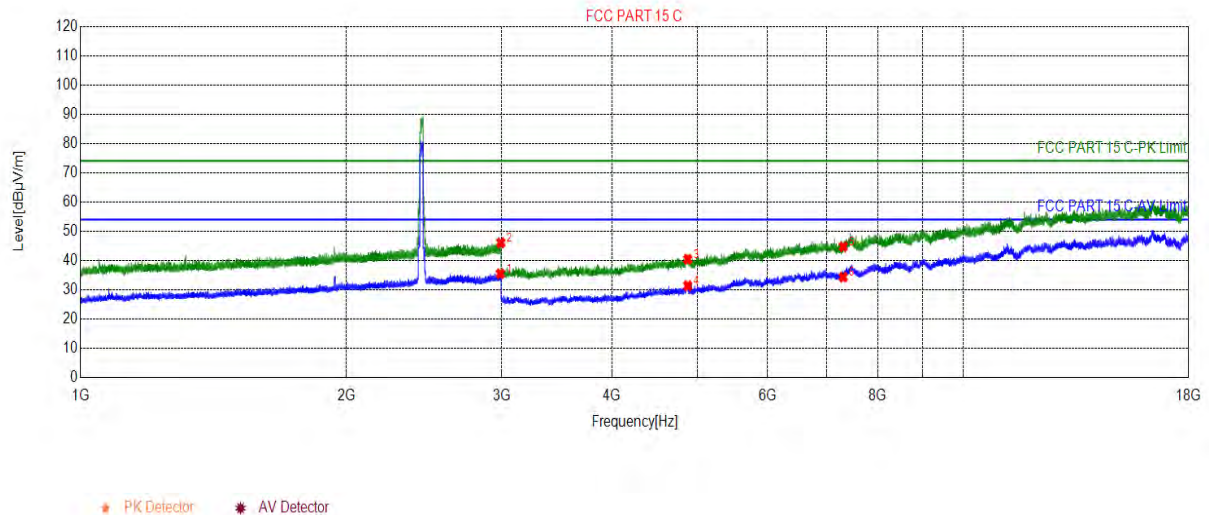


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802.11n20_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.9995	35.47	7.84	54.00	18.53	286	2	Horizontal
2	2992.7996	46.04	7.91	74.00	27.96	254	252	Horizontal
3	4874.0000	40.42	-18.02	74.00	33.58	261	334	Horizontal
4	4874.0000	31.34	-18.02	54.00	22.66	352	189	Horizontal
5	7311.0000	44.73	-10.82	74.00	29.27	142	159	Horizontal
6	7311.0000	34.34	-10.82	54.00	19.66	165	159	Horizontal

Final Data List

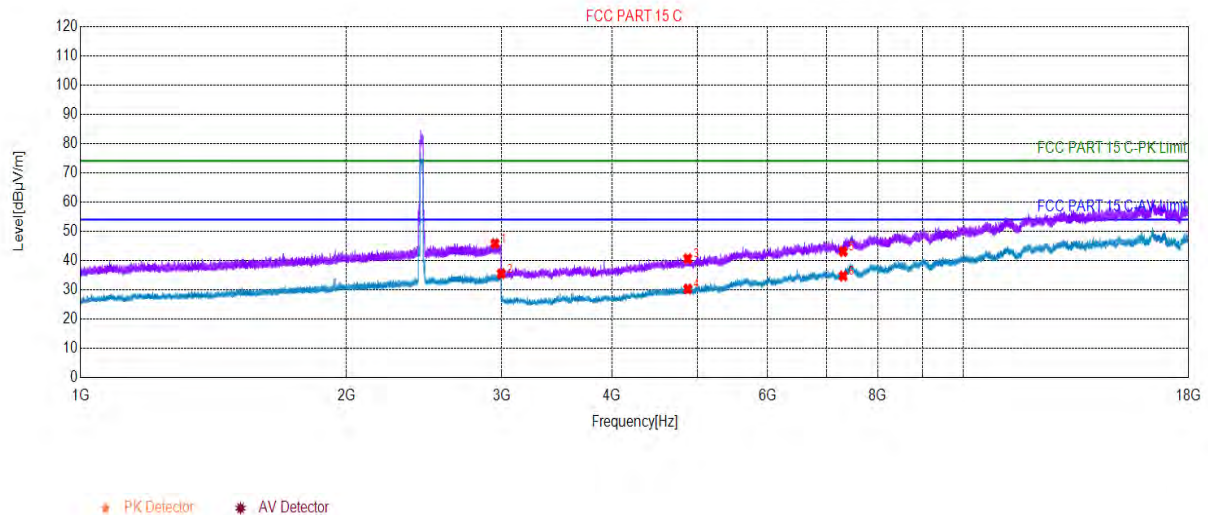


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802.11n20_Channel 6

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.5974	45.78	7.97	74.00	28.22	187	337	Vertical
2	2996.1998	35.48	8.02	54.00	18.52	246	248	Vertical
3	4874.0000	40.61	-18.02	74.00	33.39	392	159	Vertical
4	4874.0000	30.27	-18.02	54.00	23.73	345	347	Vertical
5	7311.0000	43.06	-10.82	74.00	30.94	362	261	Vertical
6	7311.0000	34.70	-10.82	54.00	19.30	154	117	Vertical

Final Data List



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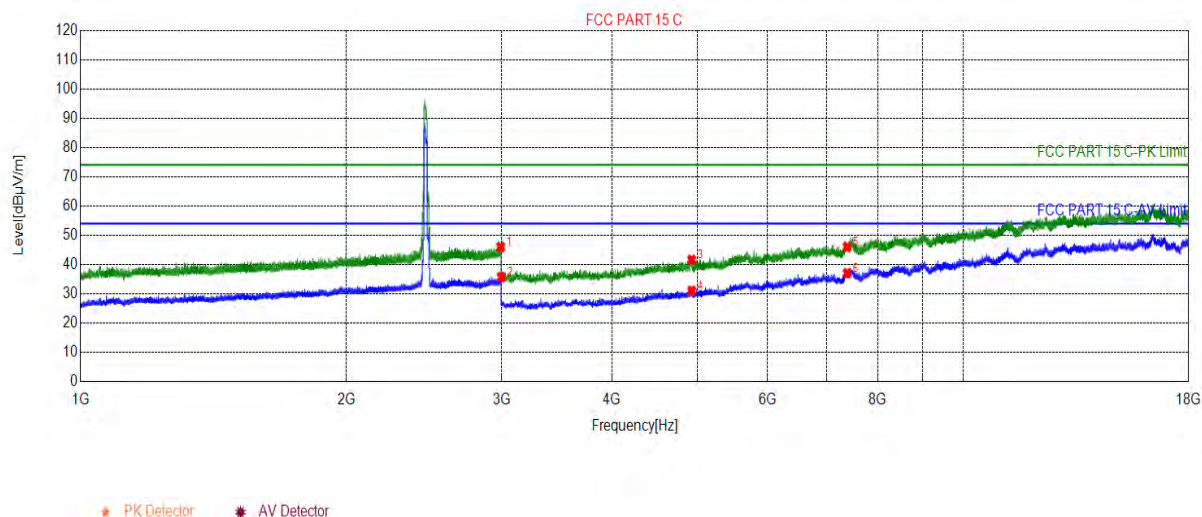
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802.11n20_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2991.4996	45.97	7.87	74.00	28.03	255	312	Horizontal
2	2996.7998	35.71	8.03	54.00	18.29	248	224	Horizontal
3	4924.0000	41.59	-17.70	74.00	32.41	168	117	Horizontal
4	4924.0000	31.01	-17.70	54.00	22.99	145	44	Horizontal
5	7386.0000	46.00	-9.56	74.00	28.00	157	291	Horizontal
6	7386.0000	37.05	-9.56	54.00	16.95	264	73	Horizontal

Final Data List



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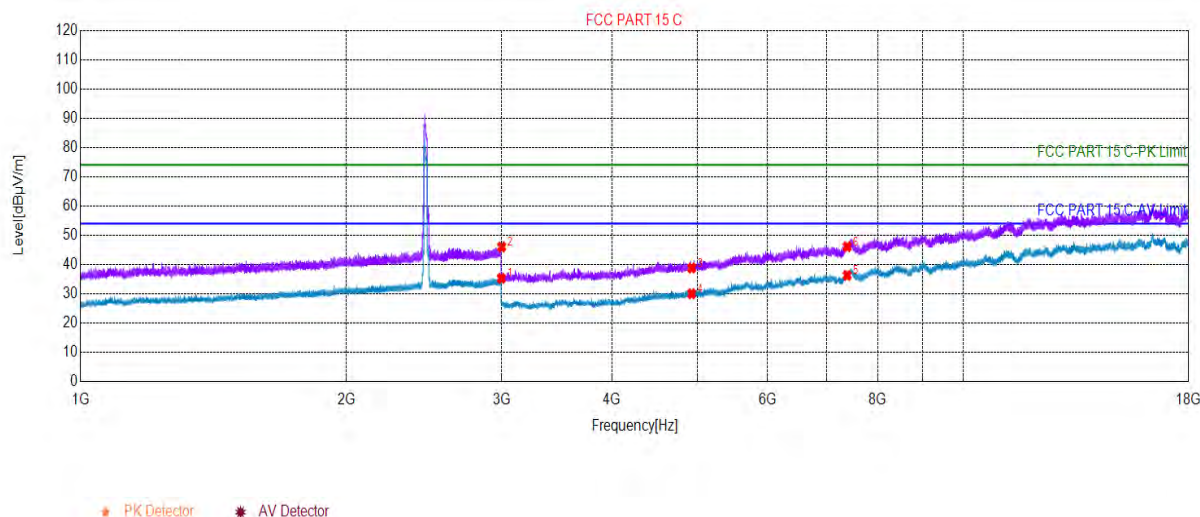
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802.11n20_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.4999	35.27	8.05	54.00	18.73	342	326	Vertical
2	2999.8000	46.01	8.12	74.00	27.99	395	313	Vertical
3	4924.0000	38.79	-17.70	74.00	35.21	364	130	Vertical
4	4924.0000	30.01	-17.70	54.00	23.99	261	3	Vertical
5	7386.0000	36.28	-9.56	54.00	17.72	286	334	Vertical
6	7386.0000	46.07	-9.56	74.00	27.93	385	159	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) 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:			

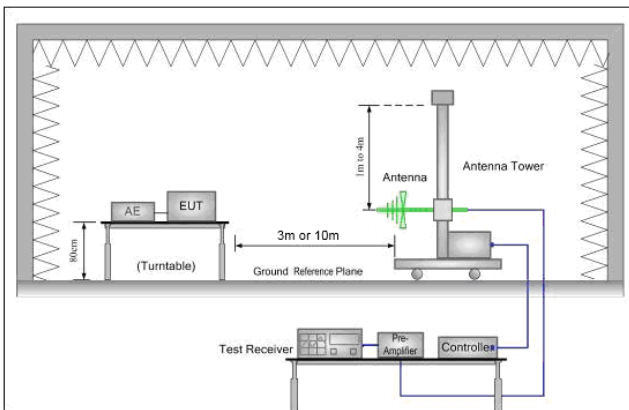


Figure 1. 30MHz to 1GHz

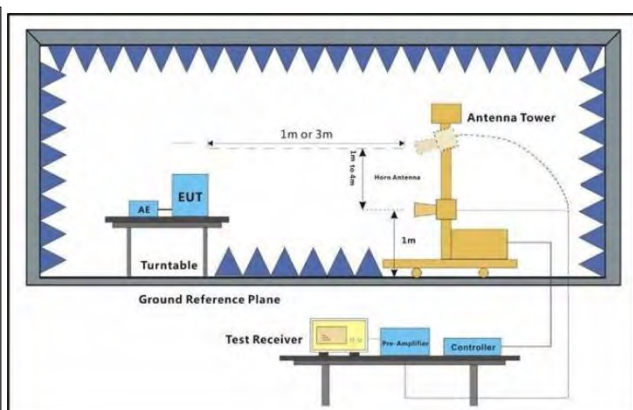


Figure 2. Above 1 GHz

Report No.: ZR/2021/5004004

Page: 44 of 137

Test Procedure:	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.
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); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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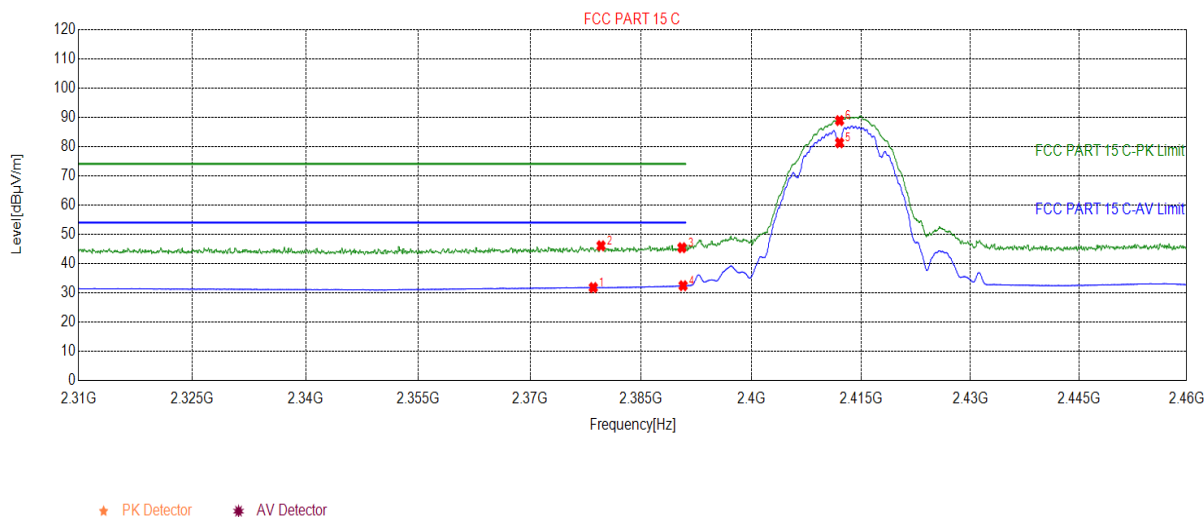
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4.10.1 Restricted bands around fundamental frequency

802.11b_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.5093	31.78	7.83	54.00	22.22	245	255	Horizontal
2	2379.5598	46.05	7.85	74.00	27.95	120	211	Horizontal
3	2390.5153	45.39	8.12	74.00	28.61	155	206	Horizontal
4	2390.6653	32.41	8.13	54.00	21.59	162	311	Horizontal
5	2412.0000	81.22	8.31	0.00	-81.22	176	5	Horizontal
6	2412.0000	88.82	8.31	0.00	-88.82	199	26	Horizontal

Final Data List



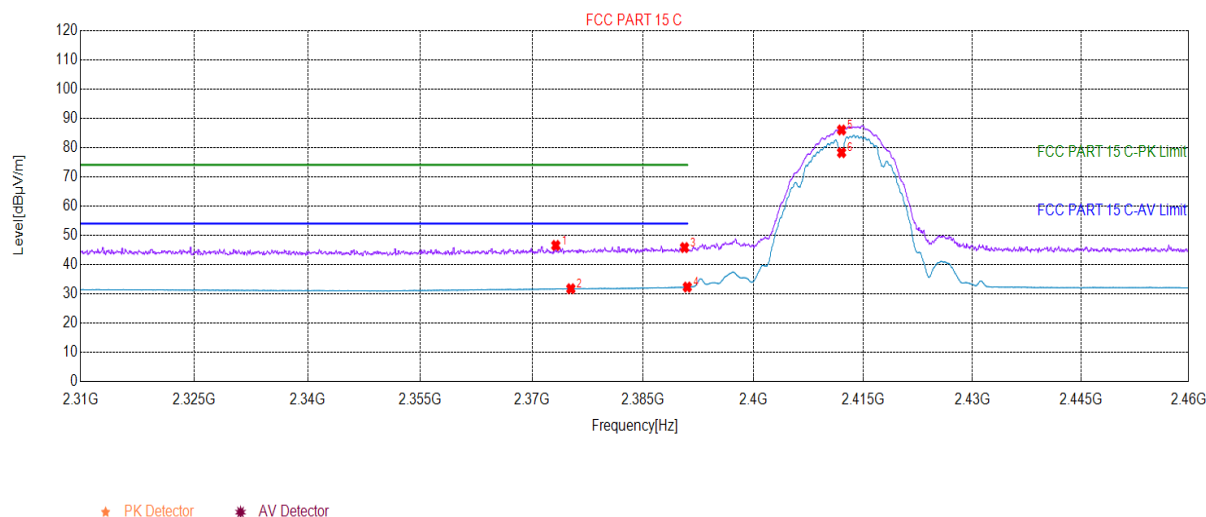
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802.11b_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.1816	46.51	7.69	74.00	27.49	342	16	Vertical
2	2375.2076	31.72	7.75	54.00	22.28	252	188	Vertical
3	2390.5903	45.78	8.13	74.00	28.22	211	162	Vertical
4	2390.9655	32.29	8.14	54.00	21.71	169	11	Vertical
5	2412.0000	85.95	8.31	0.00	-85.95	236	302	Vertical
6	2412.0000	78.22	8.31	0.00	-78.22	245	169	Vertical

Final Data List



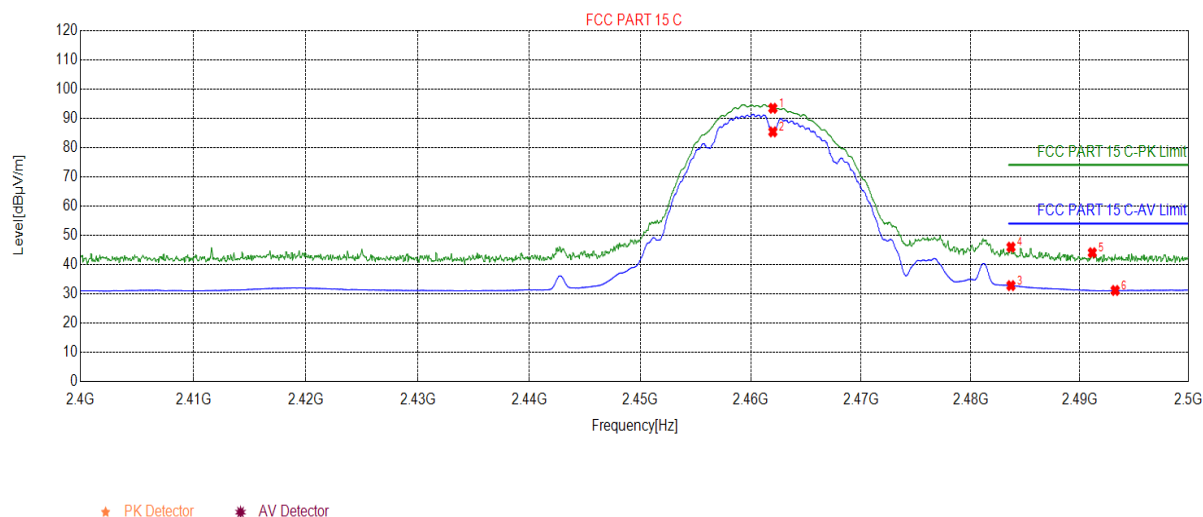
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802.11b_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	93.36	6.60	0.00	-93.36	122	256	Horizontal
2	2462.0000	85.31	6.60	0.00	-85.31	184	22	Horizontal
3	2483.6918	32.79	6.79	54.00	21.21	139	241	Horizontal
4	2483.6918	45.92	6.79	74.00	28.08	188	294	Horizontal
5	2491.1456	44.02	6.82	74.00	29.98	134	245	Horizontal
6	2493.2466	31.13	6.86	54.00	22.87	145	222	Horizontal

Final Data List



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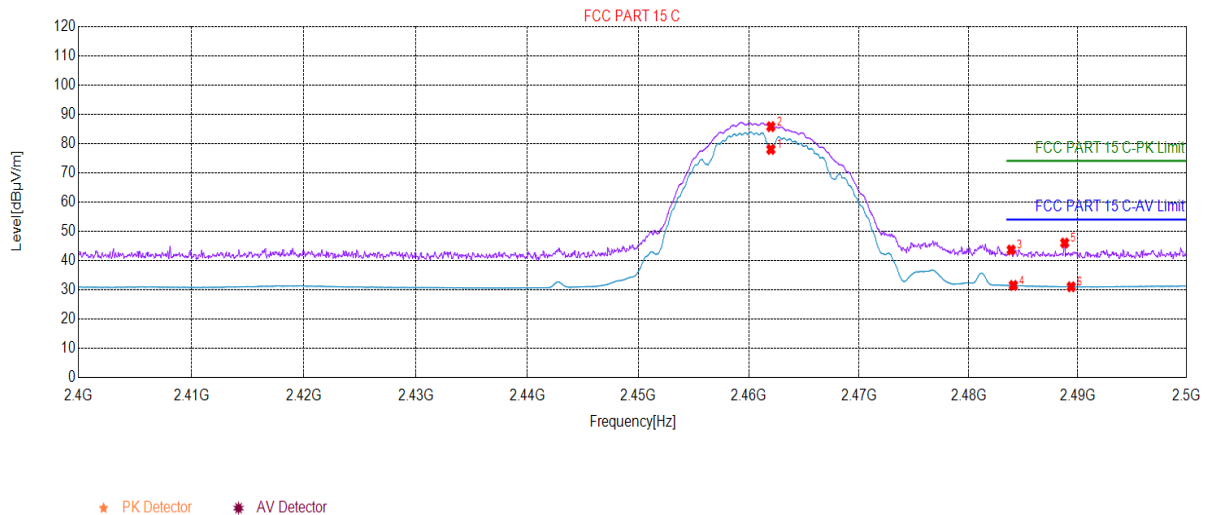
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802.11b_Channel 11

Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	77.94	6.60	0.00	-77.94	169	185	Vertical
2	2462.0000	85.72	6.60	0.00	-85.72	251	11	Vertical
3	2483.8919	43.61	6.79	74.00	30.39	263	306	Vertical
4	2484.0920	31.49	6.79	54.00	22.51	211	168	Vertical
5	2488.7944	45.98	6.79	74.00	28.02	287	28	Vertical
6	2489.3947	31.02	6.79	54.00	22.98	296	5	Vertical

Final Data List



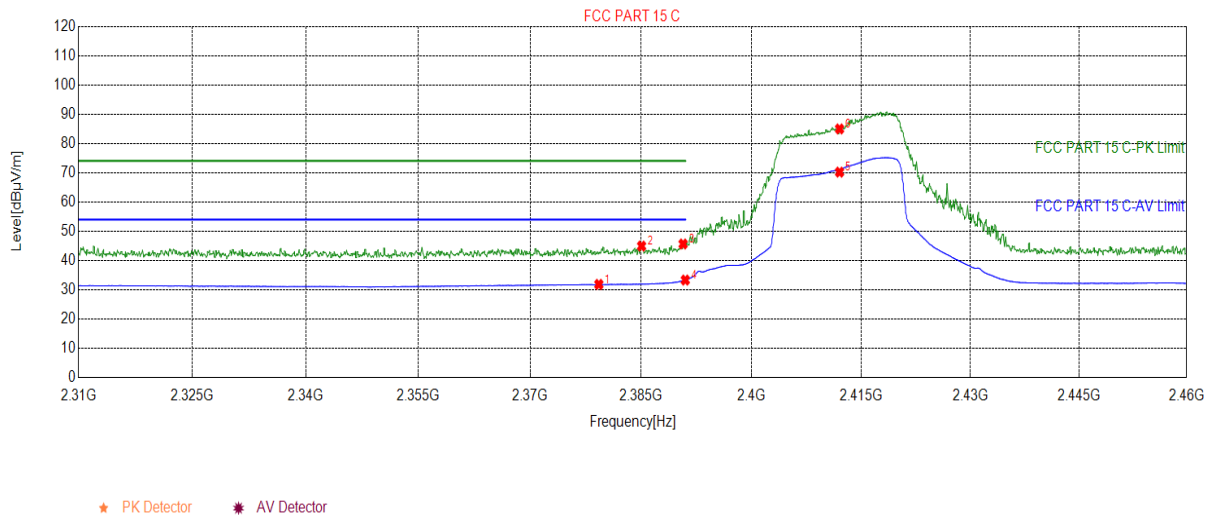
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802.11g_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.2596	31.84	7.85	54.00	22.16	198	263	Horizontal
2	2385.0375	44.92	7.99	74.00	29.08	254	22	Horizontal
3	2390.6653	45.64	8.13	74.00	28.36	121	278	Horizontal
4	2390.9655	33.32	8.14	54.00	20.68	115	103	Horizontal
5	2412.0000	70.19	8.31	0.00	-70.19	163	177	Horizontal
6	2412.0000	84.95	8.31	0.00	-84.95	171	152	Horizontal

Final Data List



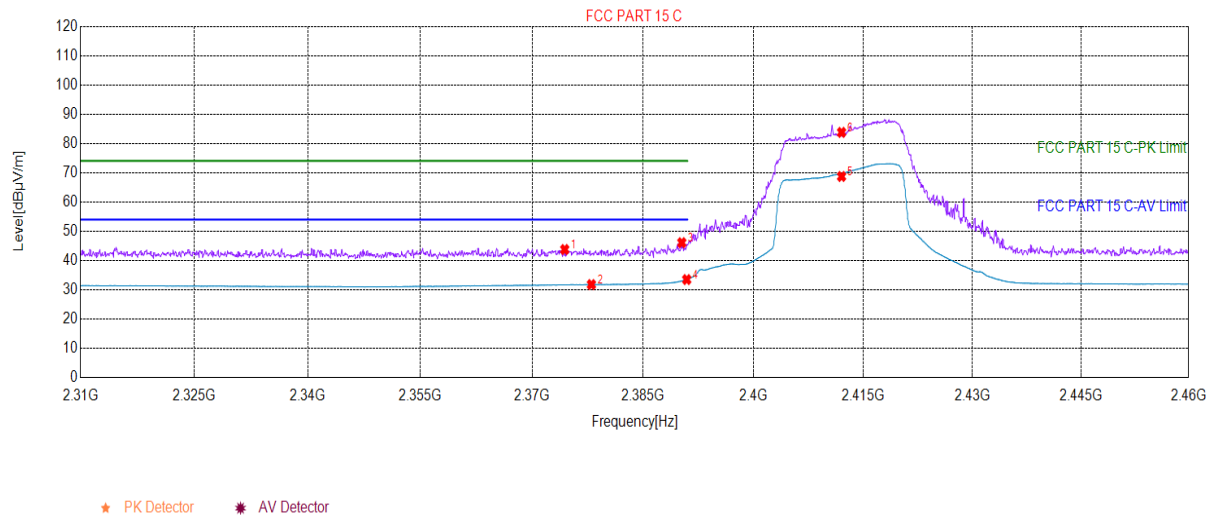
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802.11g_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.3822	43.76	7.72	74.00	30.24	253	263	Vertical
2	2377.9840	31.79	7.81	54.00	22.21	222	11	Vertical
3	2390.2151	46.08	8.12	74.00	27.92	342	178	Vertical
4	2390.8904	33.49	8.13	54.00	20.51	164	152	Vertical
5	2412.0000	68.70	8.31	0.00	-68.70	195	269	Vertical
6	2412.0000	83.77	8.31	0.00	-83.77	145	22	Vertical

Final Data List



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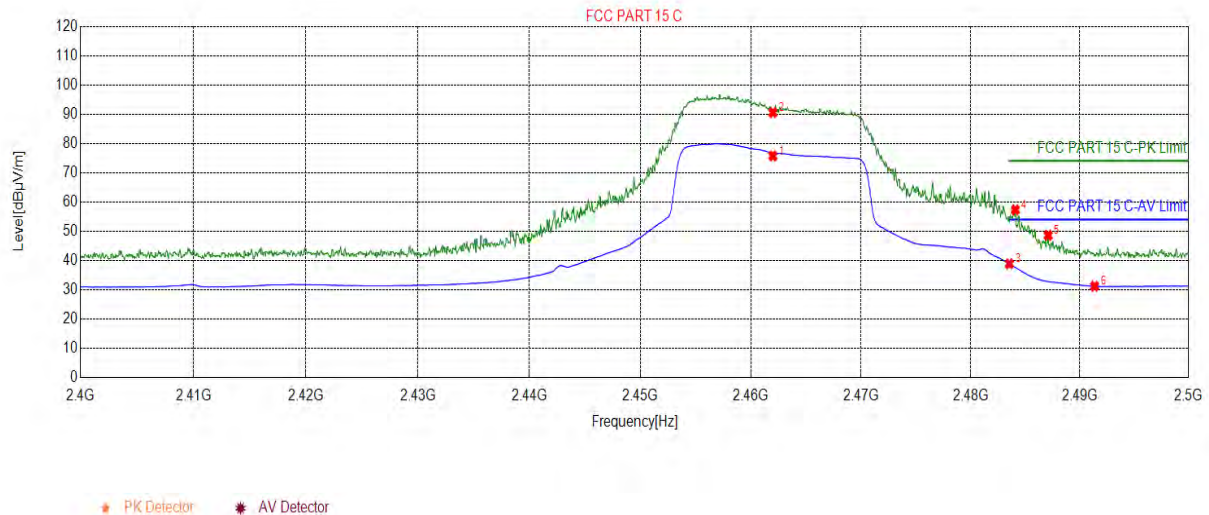
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802.11g_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	75.73	6.60	0.00	-75.73	252	261	Horizontal
2	2462.0000	90.51	6.60	0.00	-90.51	155	221	Horizontal
3	2483.5418	38.88	6.79	54.00	15.12	162	275	Horizontal
4	2484.0920	57.30	6.79	74.00	16.70	172	103	Horizontal
5	2487.0935	48.59	6.79	74.00	25.41	136	2	Horizontal
6	2491.3457	31.21	6.82	54.00	22.79	117	89	Horizontal

Final Data List



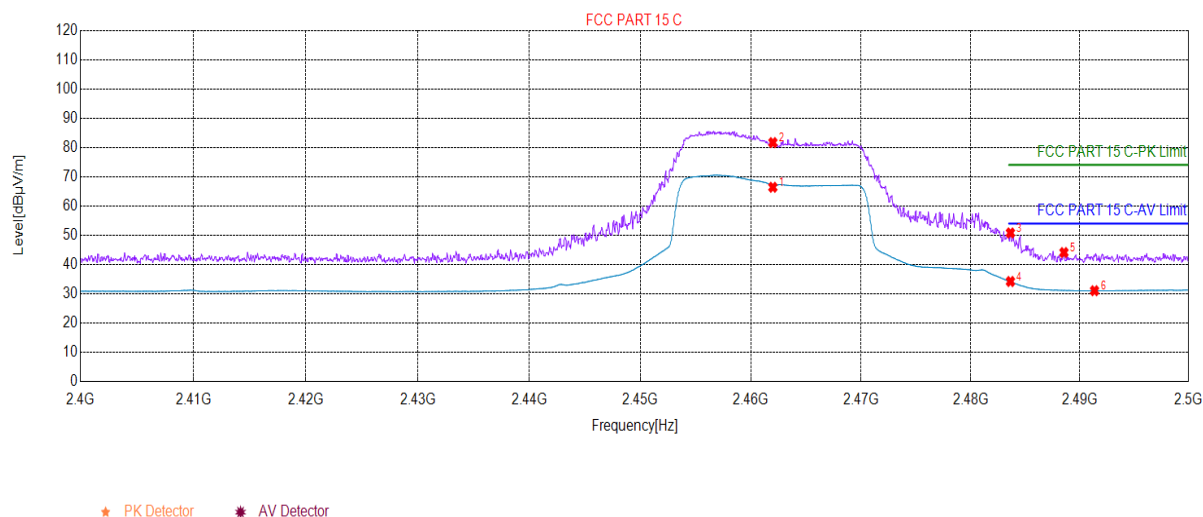
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802.11g_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	66.39	6.60	0.00	-66.39	263	163	Vertical
2	2462.0000	81.64	6.60	0.00	-81.64	285	22	Vertical
3	2483.6418	50.79	6.79	74.00	23.21	264	198	Vertical
4	2483.6418	34.20	6.79	54.00	19.80	245	164	Vertical
5	2488.5443	44.10	6.79	74.00	29.90	175	7	Vertical
6	2491.3457	31.05	6.82	54.00	22.95	294	188	Vertical

Final Data List

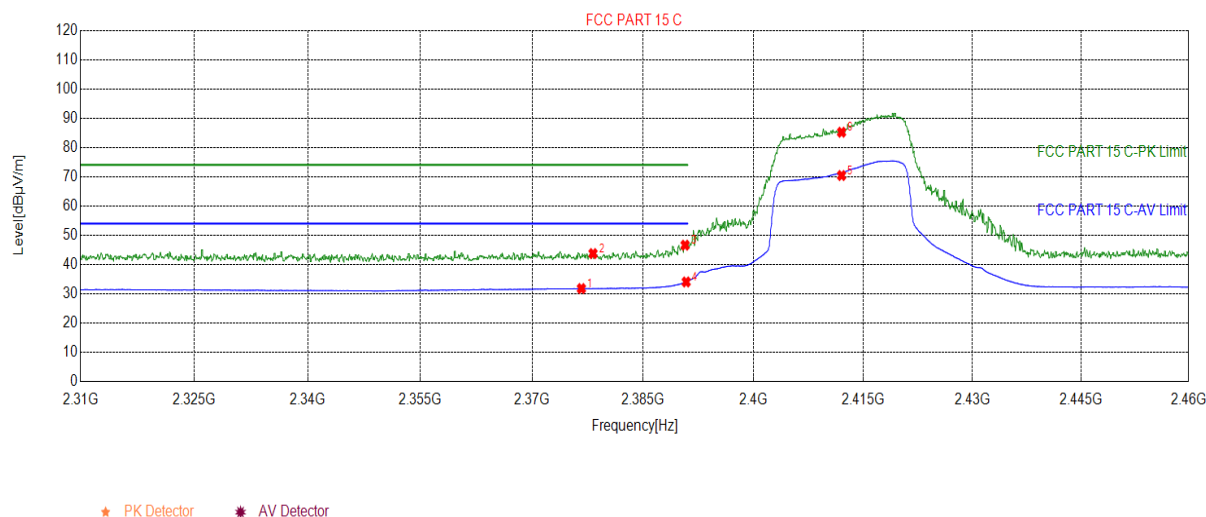


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802.11n20_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.6333	31.79	7.78	54.00	22.21	175	11	Horizontal
2	2378.2091	43.73	7.82	74.00	30.27	152	154	Horizontal
3	2390.6653	46.60	8.13	74.00	27.40	145	261	Horizontal
4	2390.8154	34.04	8.13	54.00	19.96	189	245	Horizontal
5	2412.0000	70.40	8.31	0.00	-70.40	139	111	Horizontal
6	2412.0000	85.18	8.31	0.00	-85.18	144	0	Horizontal

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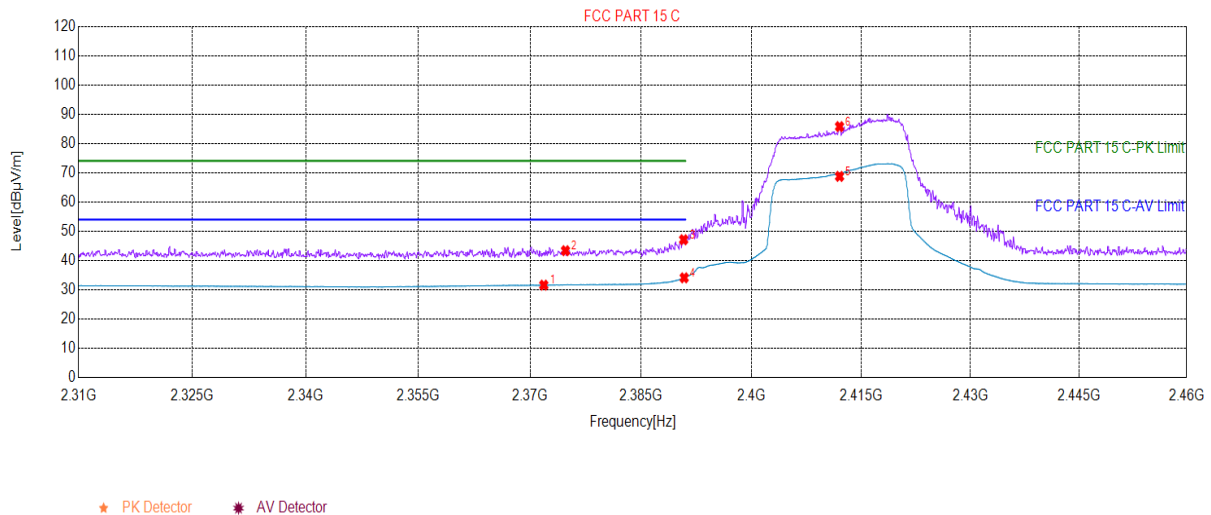
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802.11n20_Channel 1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.8309	31.58	7.66	54.00	22.42	245	13	Vertical
2	2374.7574	43.35	7.73	74.00	30.65	222	153	Vertical
3	2390.7404	47.11	8.13	74.00	26.89	153	251	Vertical
4	2390.8154	34.09	8.13	54.00	19.91	196	125	Vertical
5	2412.0000	68.73	8.31	0.00	-68.73	306	196	Vertical
6	2412.0000	85.75	8.31	0.00	-85.75	244	22	Vertical

Final Data List



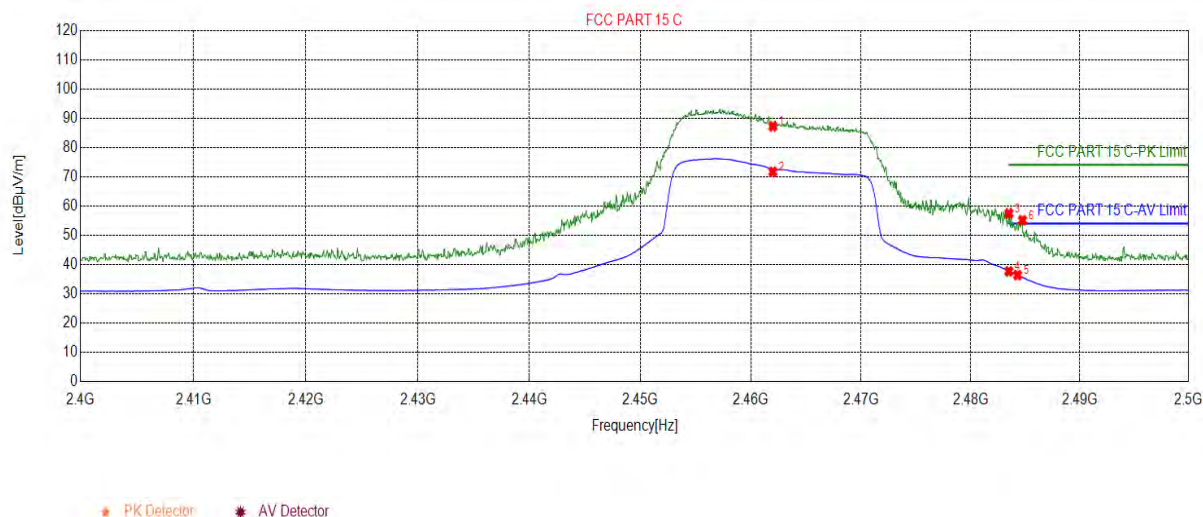
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802.11n20_Channel 11

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	87.19	6.60	0.00	-87.19	186	28	Horizontal
2	2462.0000	71.66	6.60	0.00	-71.66	325	39	Horizontal
3	2483.5000	57.45	6.79	74.00	16.55	145	240	Horizontal
4	2483.5000	37.65	6.79	54.00	16.35	195	124	Horizontal
5	2484.2921	36.37	6.79	54.00	17.63	176	265	Horizontal
6	2484.7424	55.10	6.79	74.00	18.90	162	223	Horizontal

Final Data List

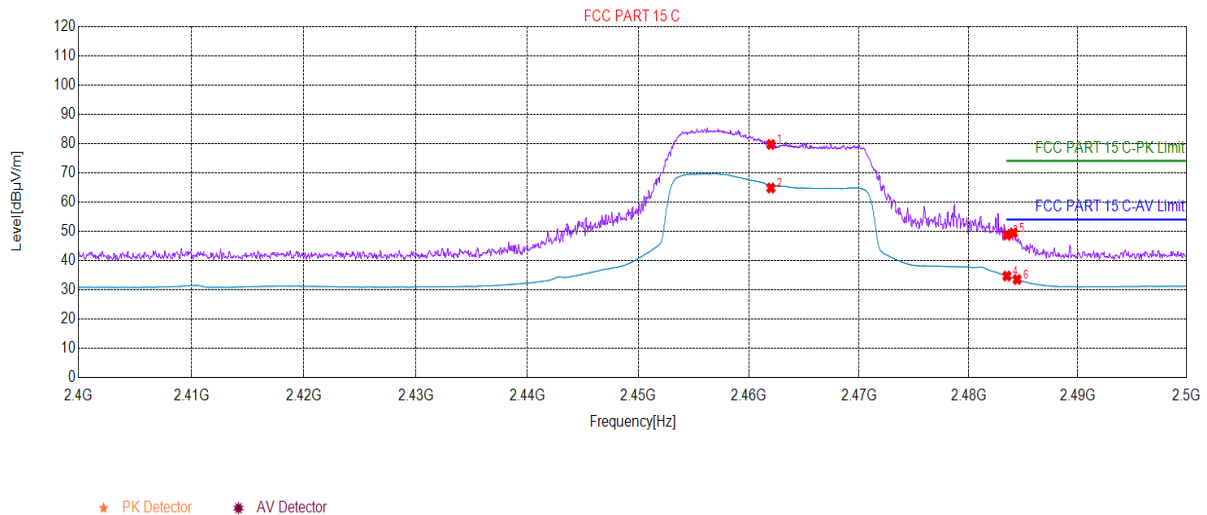


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Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	79.64	6.60	0.00	-79.64	349	185	Vertical
2	2462.0000	64.76	6.60	0.00	-64.76	365	174	Vertical
3	2483.5000	48.70	6.79	74.00	25.30	246	253	Vertical
4	2483.5000	34.69	6.79	54.00	19.31	139	391	Vertical
5	2484.0920	49.40	6.79	74.00	24.60	385	276	Vertical
6	2484.4422	33.51	6.79	54.00	20.49	215	248	Vertical

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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	±0.41dB
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	2021-04-14	2022-04-13
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020-12-04	2021-12-03
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2021-04-14	2022-04-13

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
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2021-06-10	2022-06-09



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Report No.: ZR/2021/5004004
Page: 60 of 137

7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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Appendix



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DTS Bandwidth Test Result

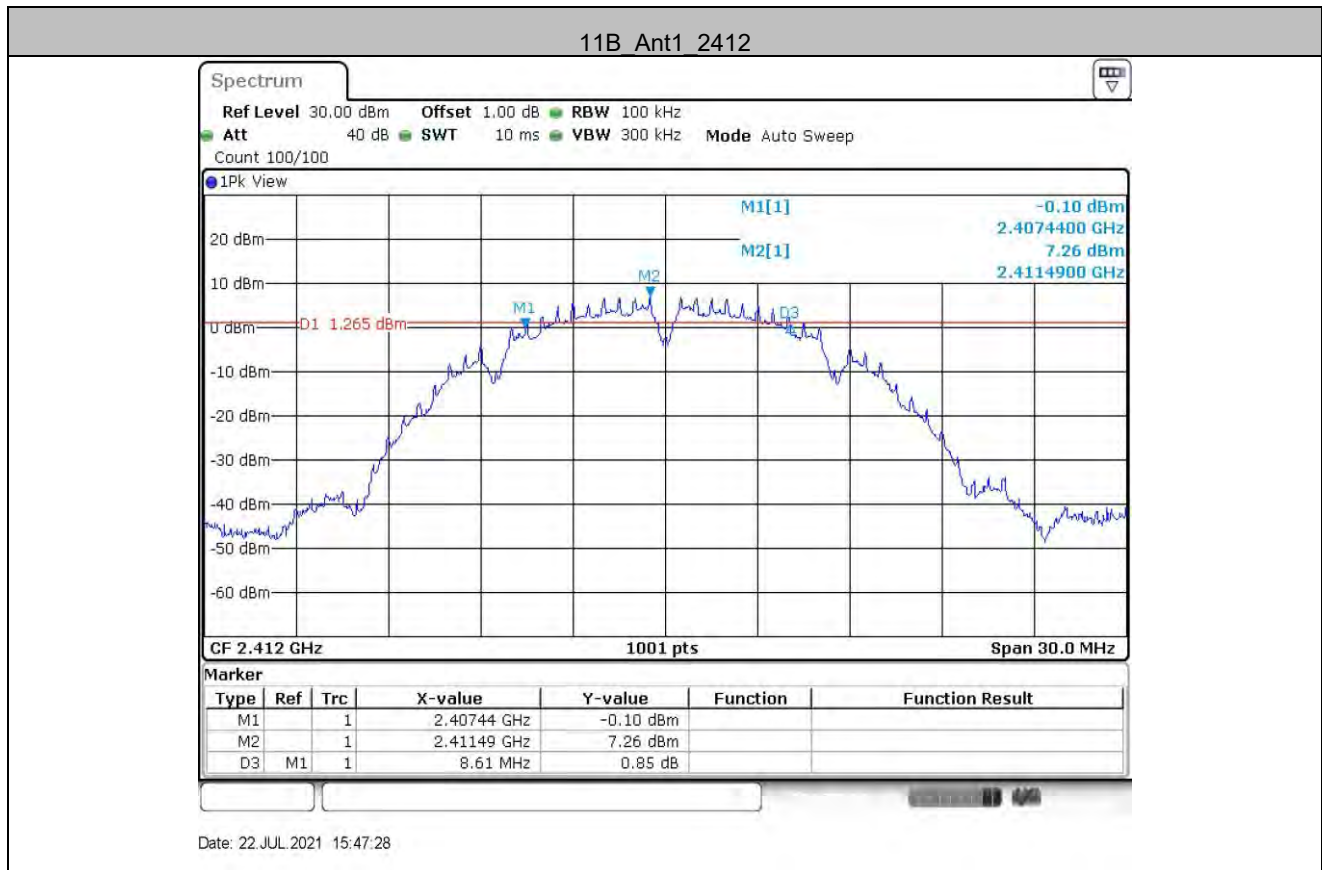
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.610	2407.440	2416.050	0.5	PASS
		2437	8.610	2432.920	2441.530	0.5	PASS
		2462	8.580	2457.440	2466.020	0.5	PASS
11G	Ant1	2412	16.410	2403.780	2420.190	0.5	PASS
		2437	16.410	2428.780	2445.190	0.5	PASS
		2462	15.810	2453.780	2469.590	0.5	PASS
11N20SISO	Ant1	2412	17.610	2403.180	2420.790	0.5	PASS
		2437	17.670	2428.150	2445.820	0.5	PASS
		2462	16.440	2453.150	2469.590	0.5	PASS



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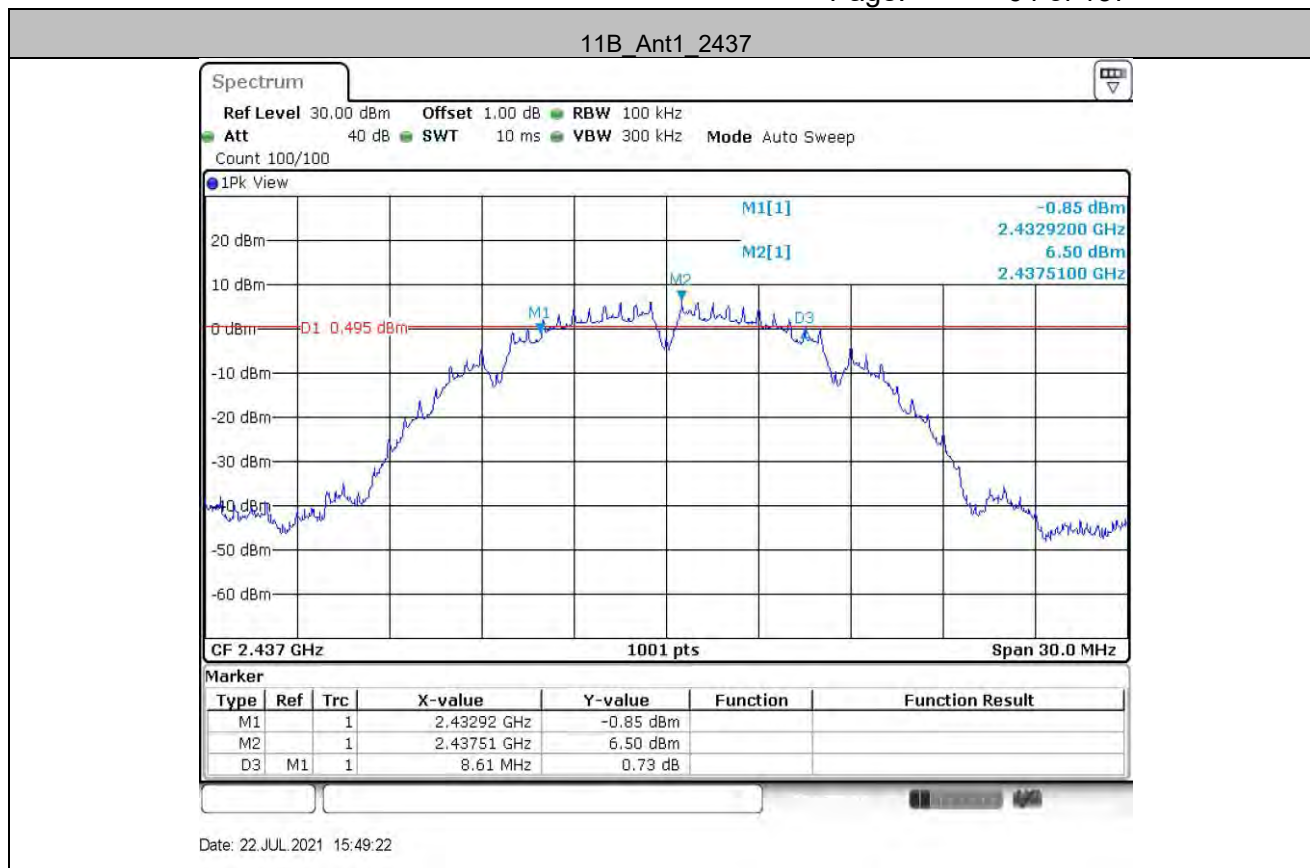
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Test Graphs



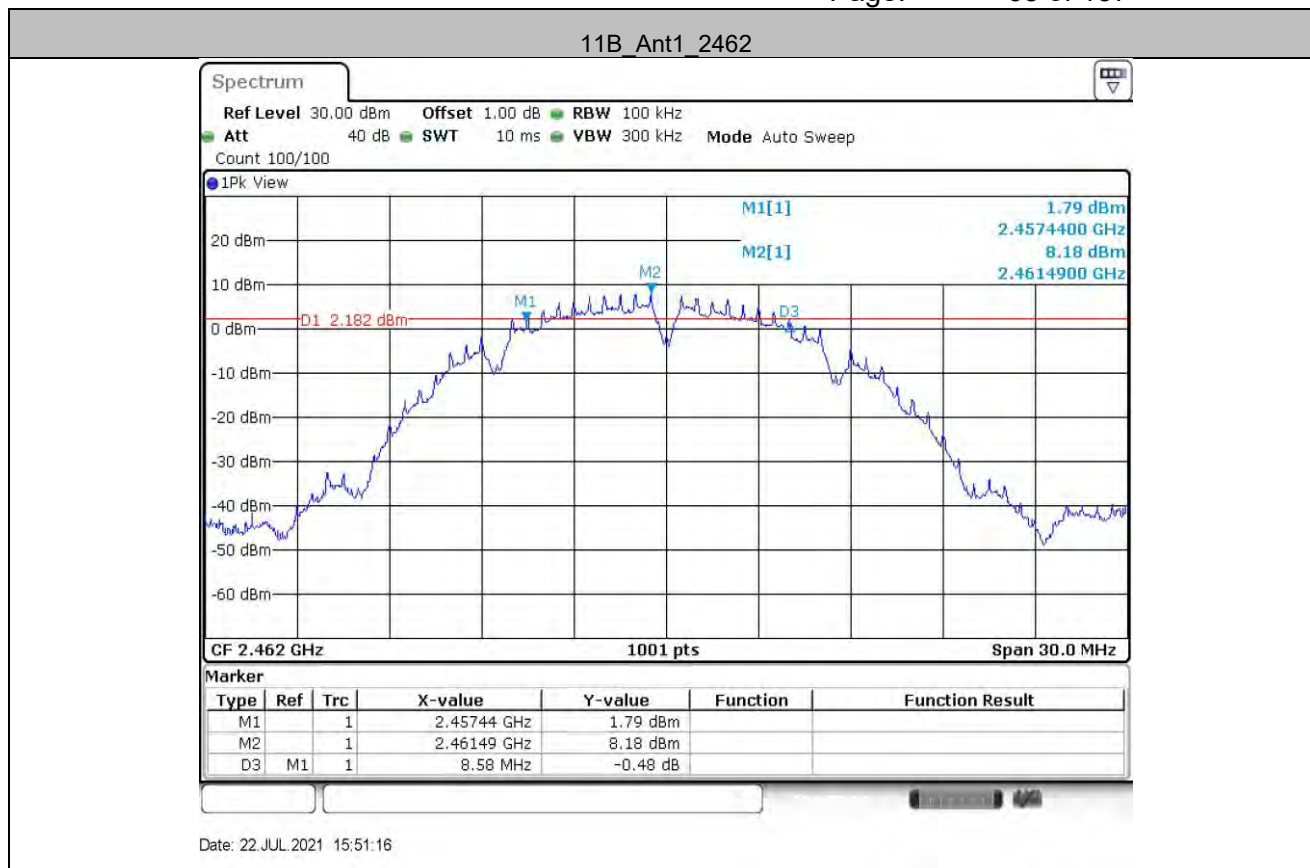
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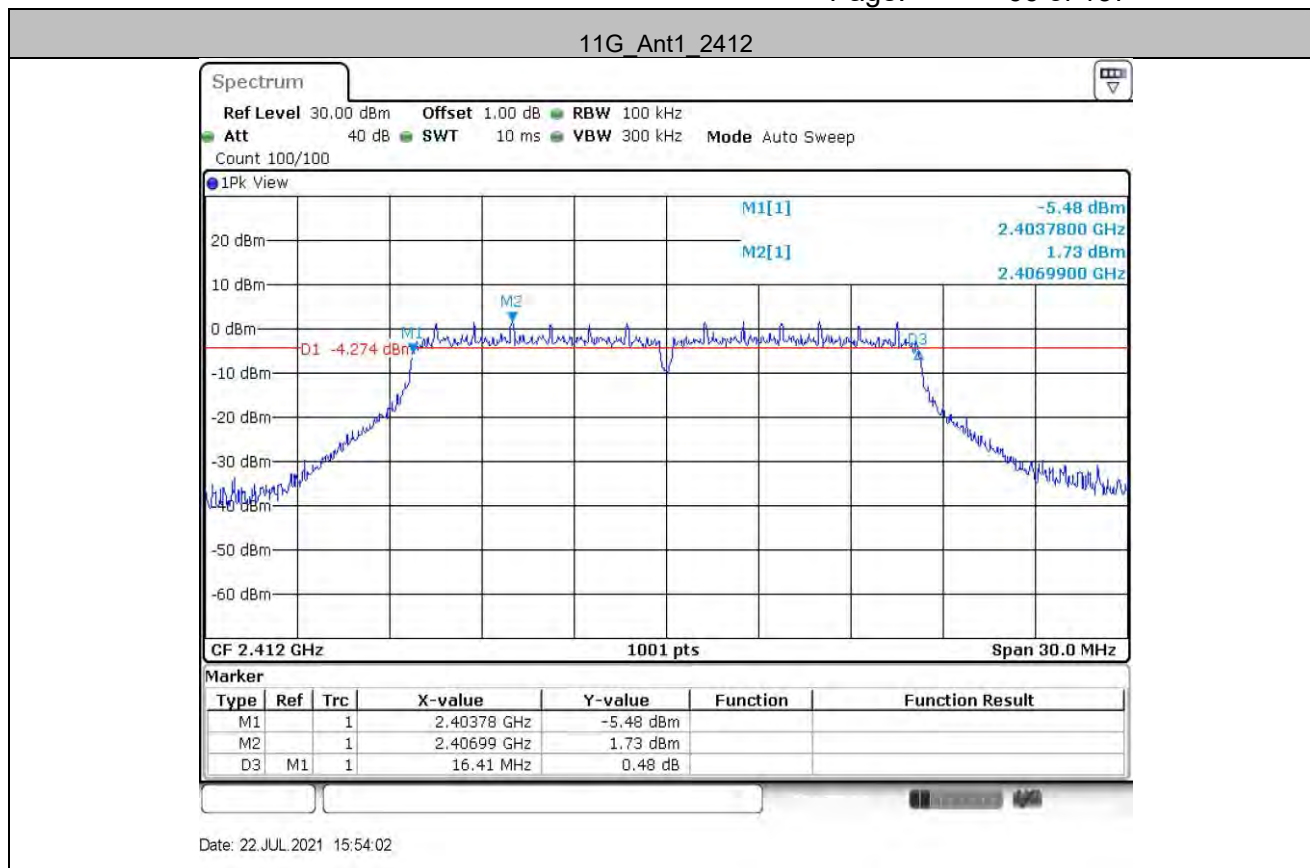
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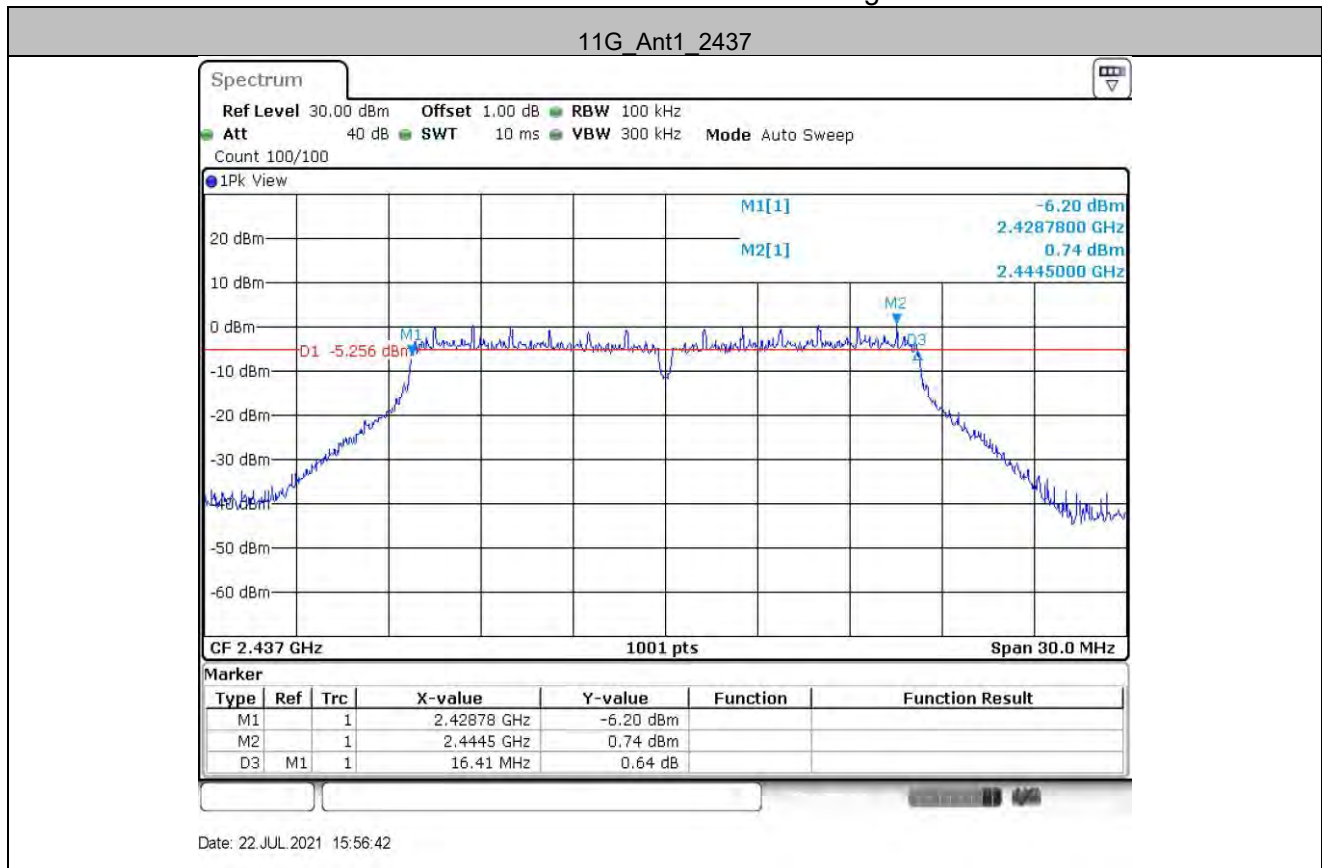
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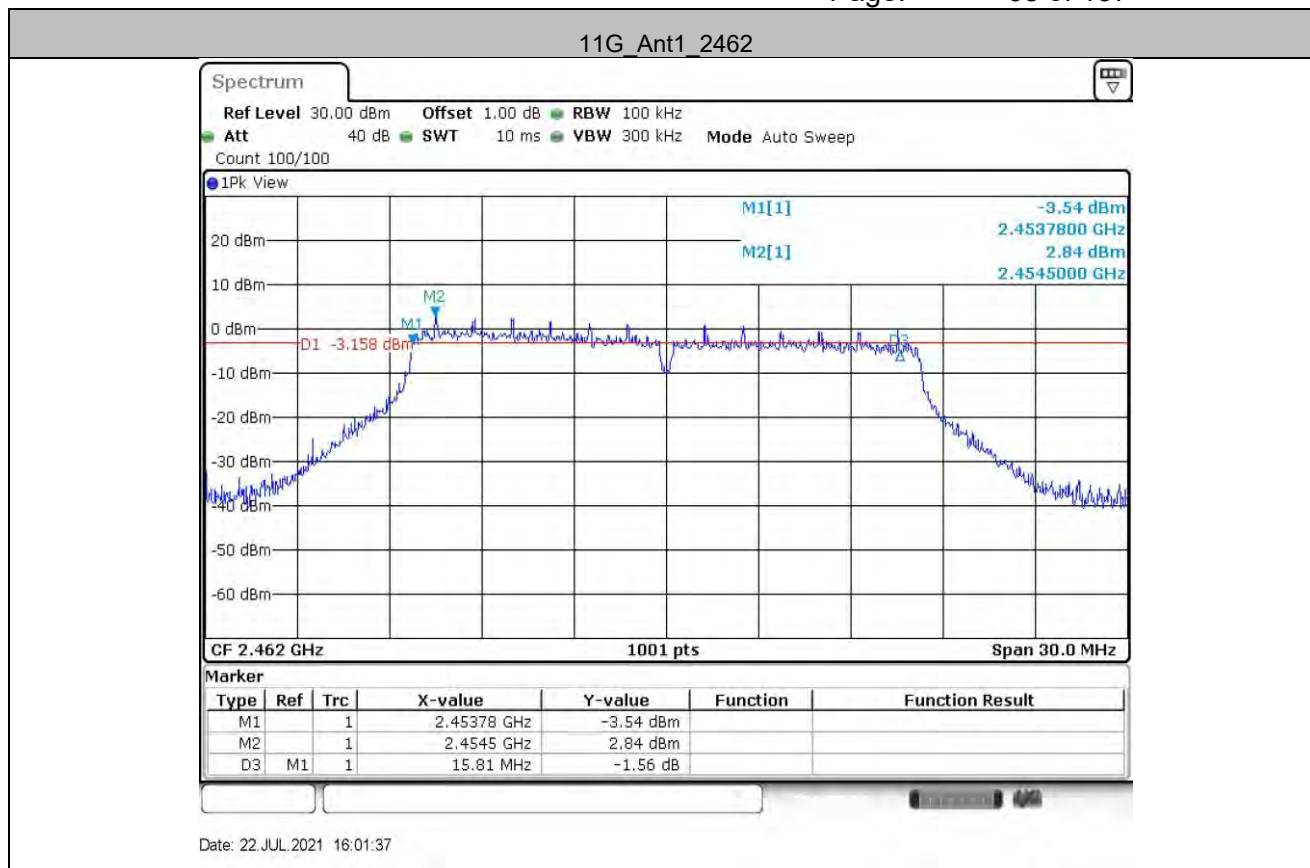
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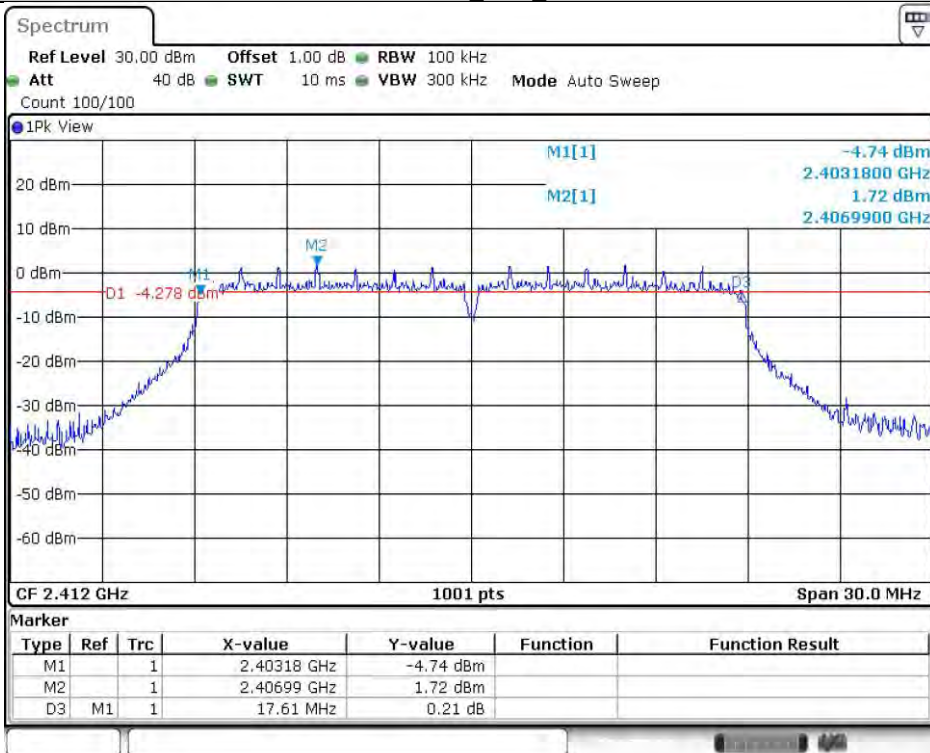
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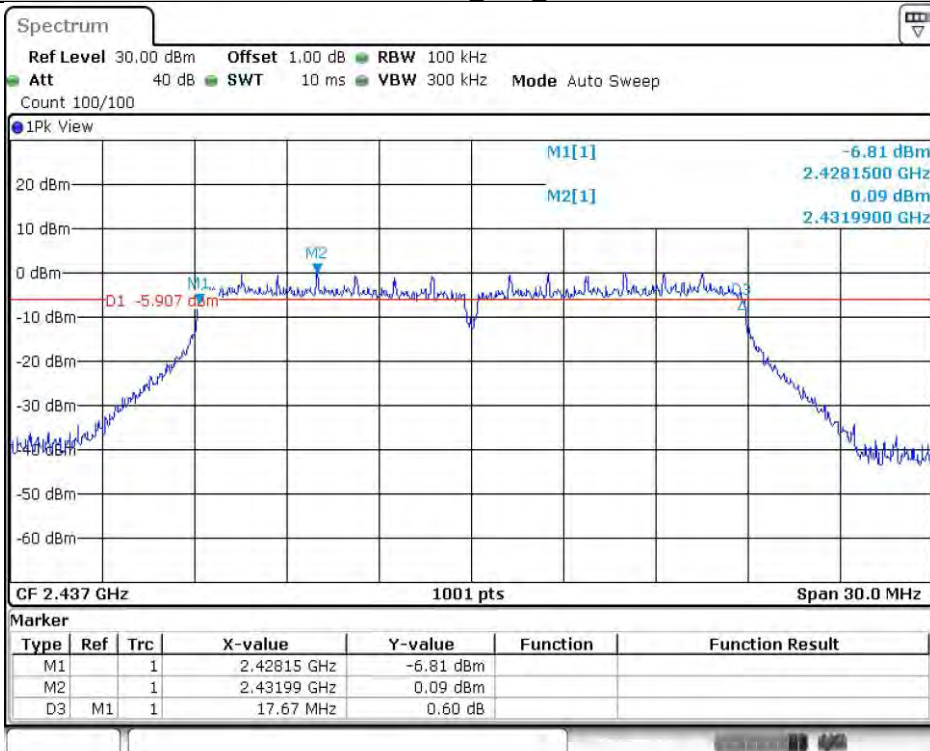
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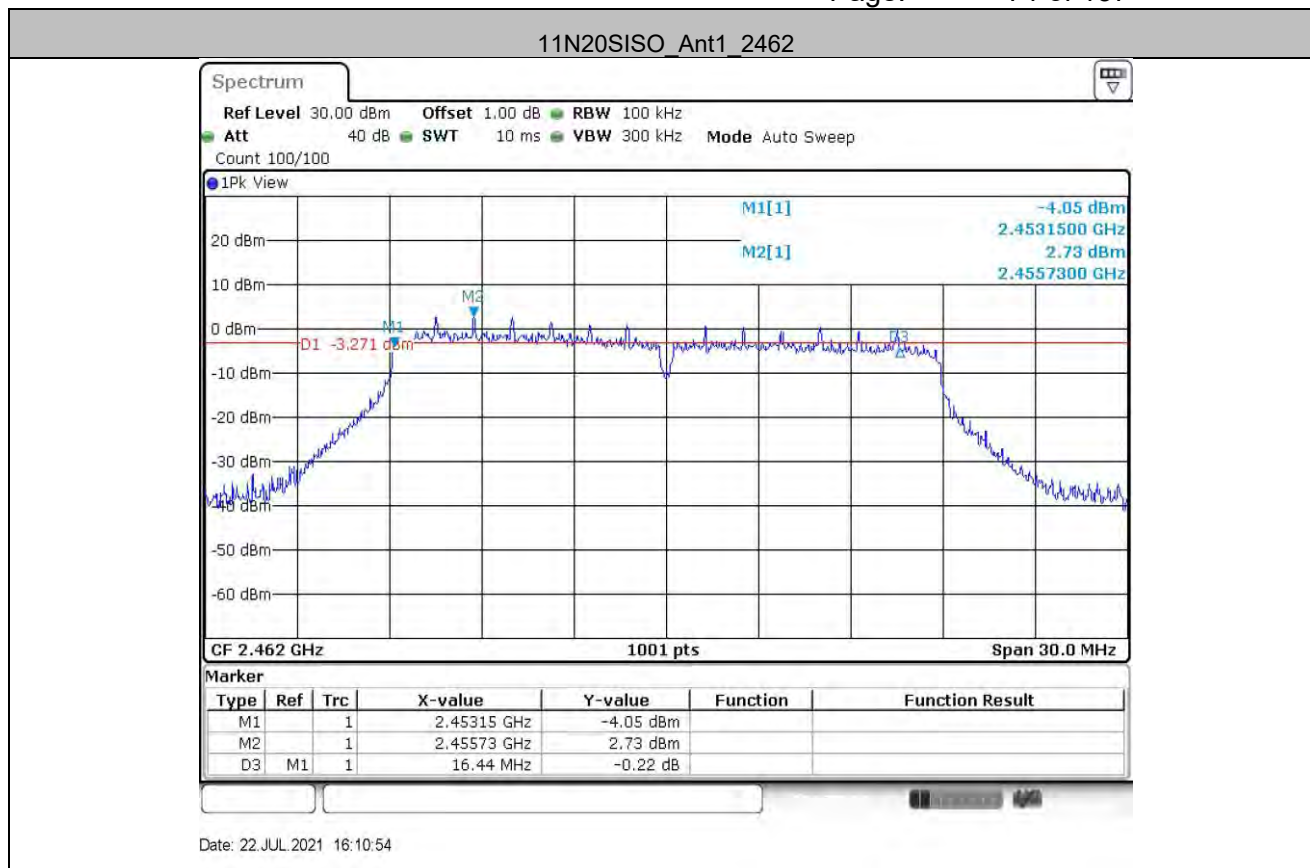


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Report No.: ZR/2021/5004004
Page: 72 of 137

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.127	2405.467	2418.593	---	PASS
		2437	13.337	2430.377	2443.713	---	PASS
		2462	13.367	2455.077	2468.444	---	PASS
11G	Ant1	2412	17.143	2403.369	2420.511	---	PASS
		2437	17.383	2428.309	2445.691	---	PASS
		2462	17.293	2453.099	2470.392	---	PASS
11N20SISO	Ant1	2412	18.042	2402.949	2420.991	---	PASS
		2437	18.312	2427.859	2446.171	---	PASS
		2462	18.162	2452.739	2470.901	---	PASS



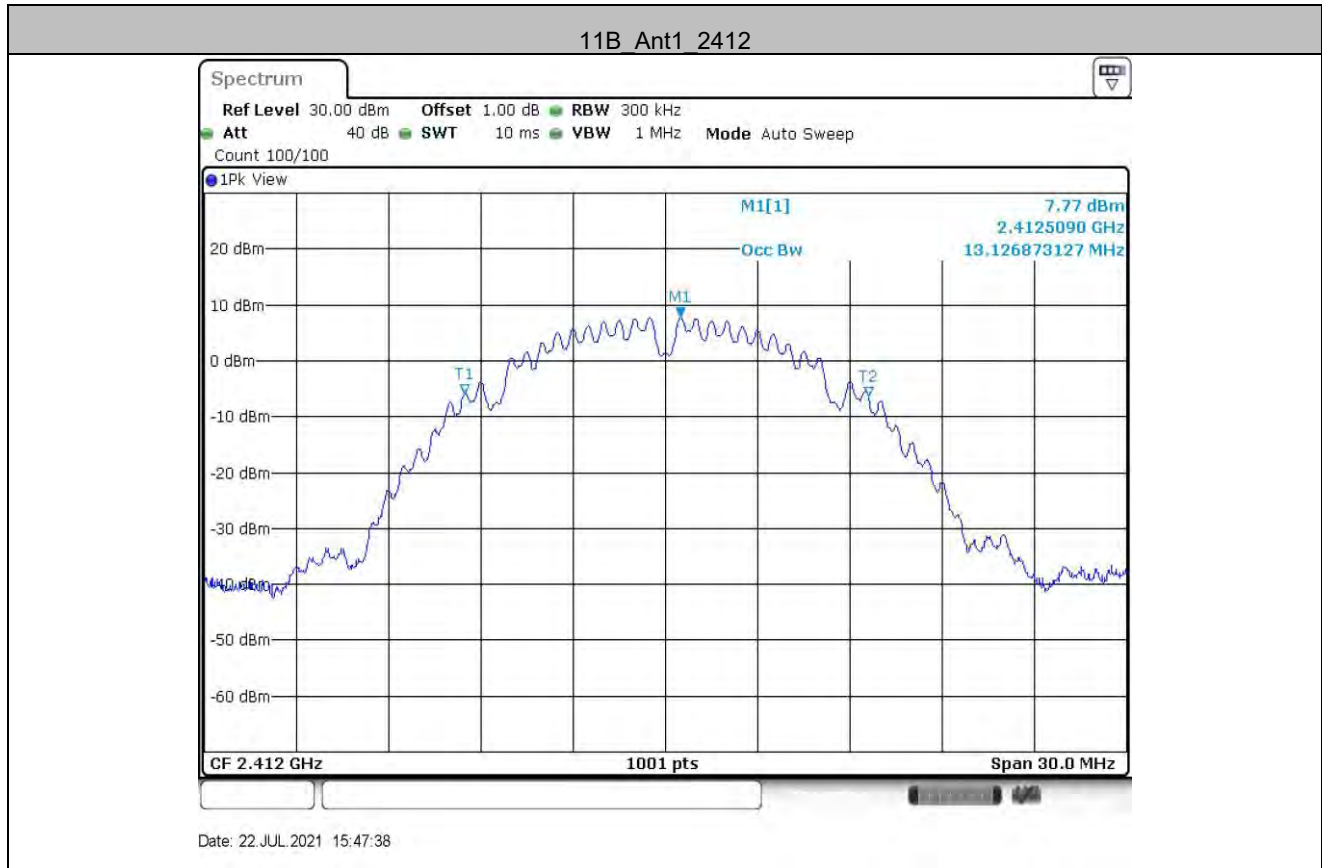
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Test Graphs



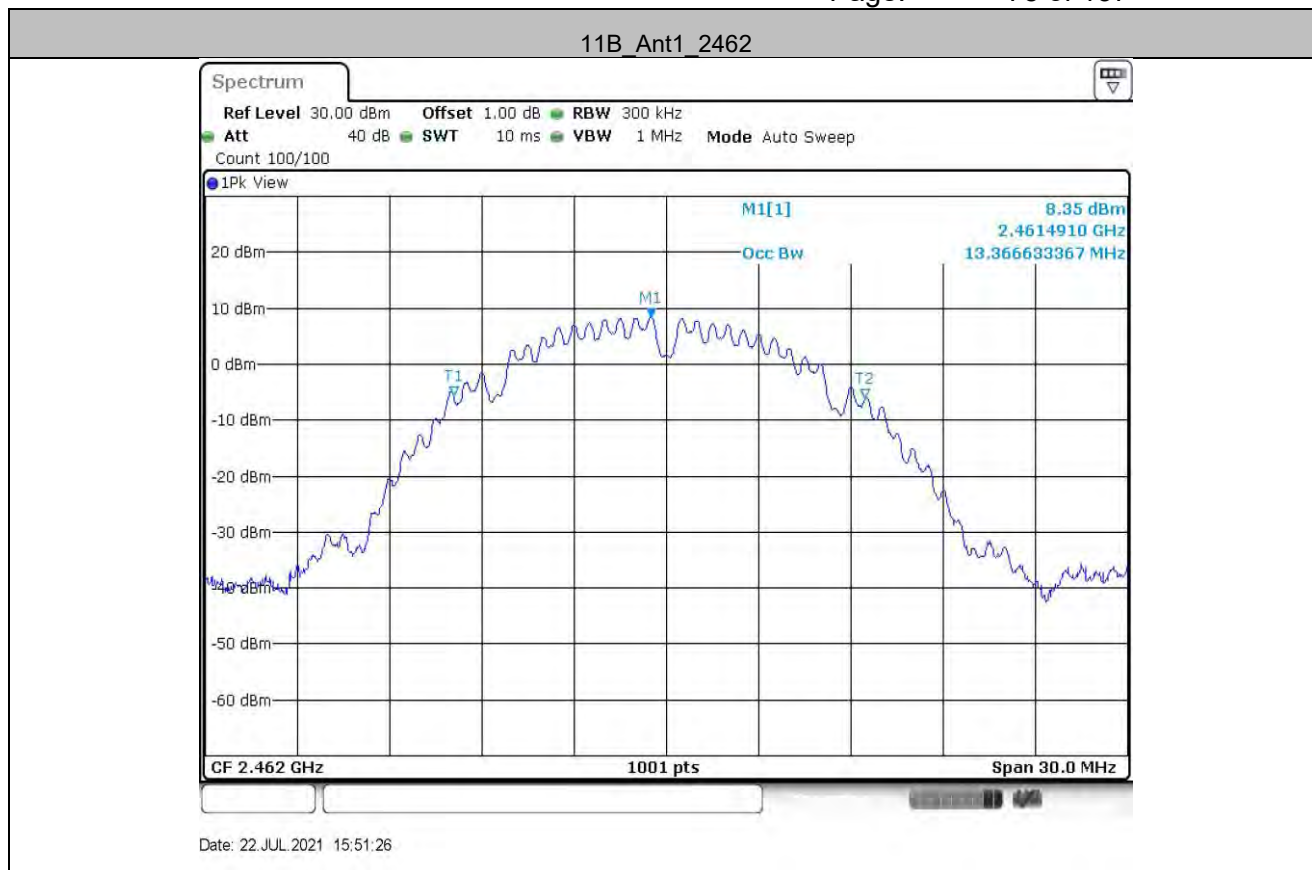
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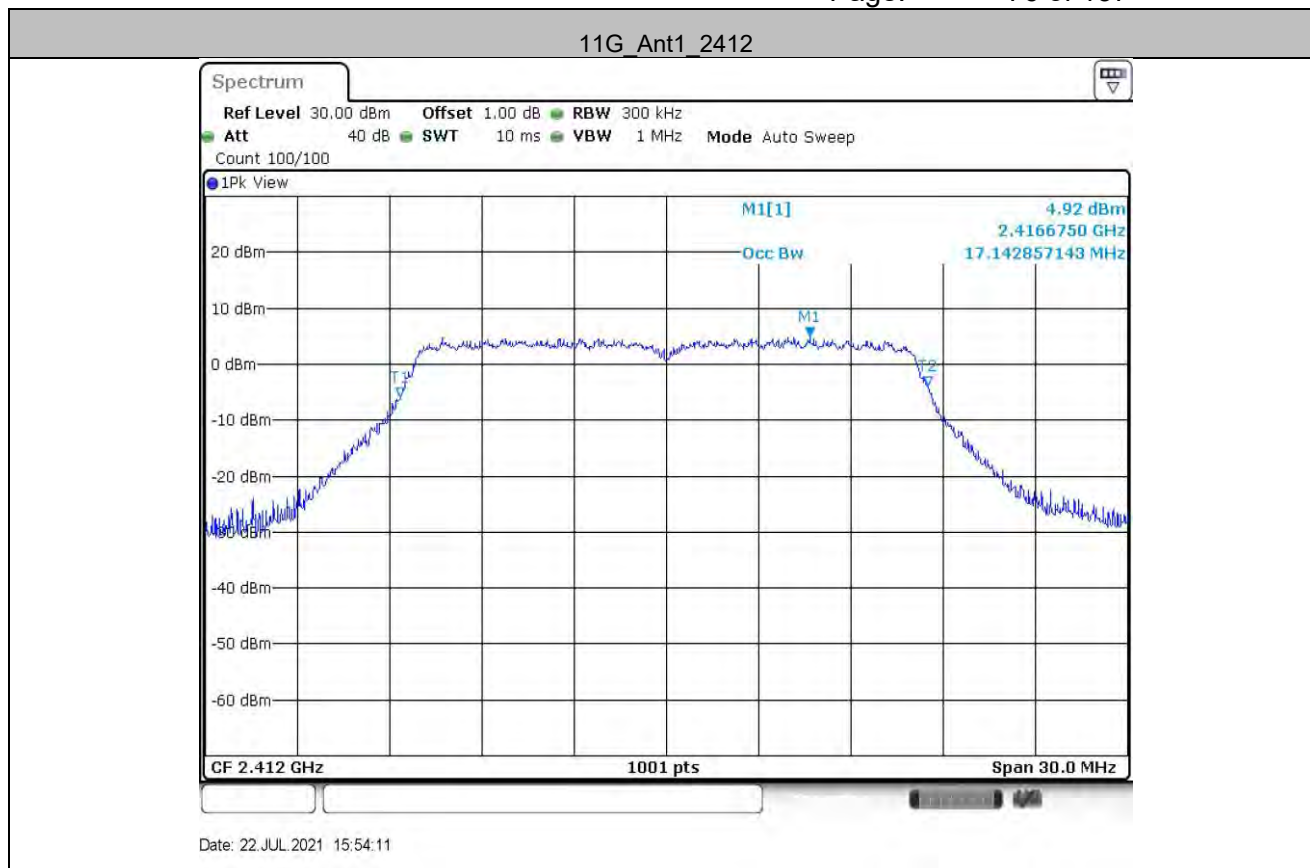
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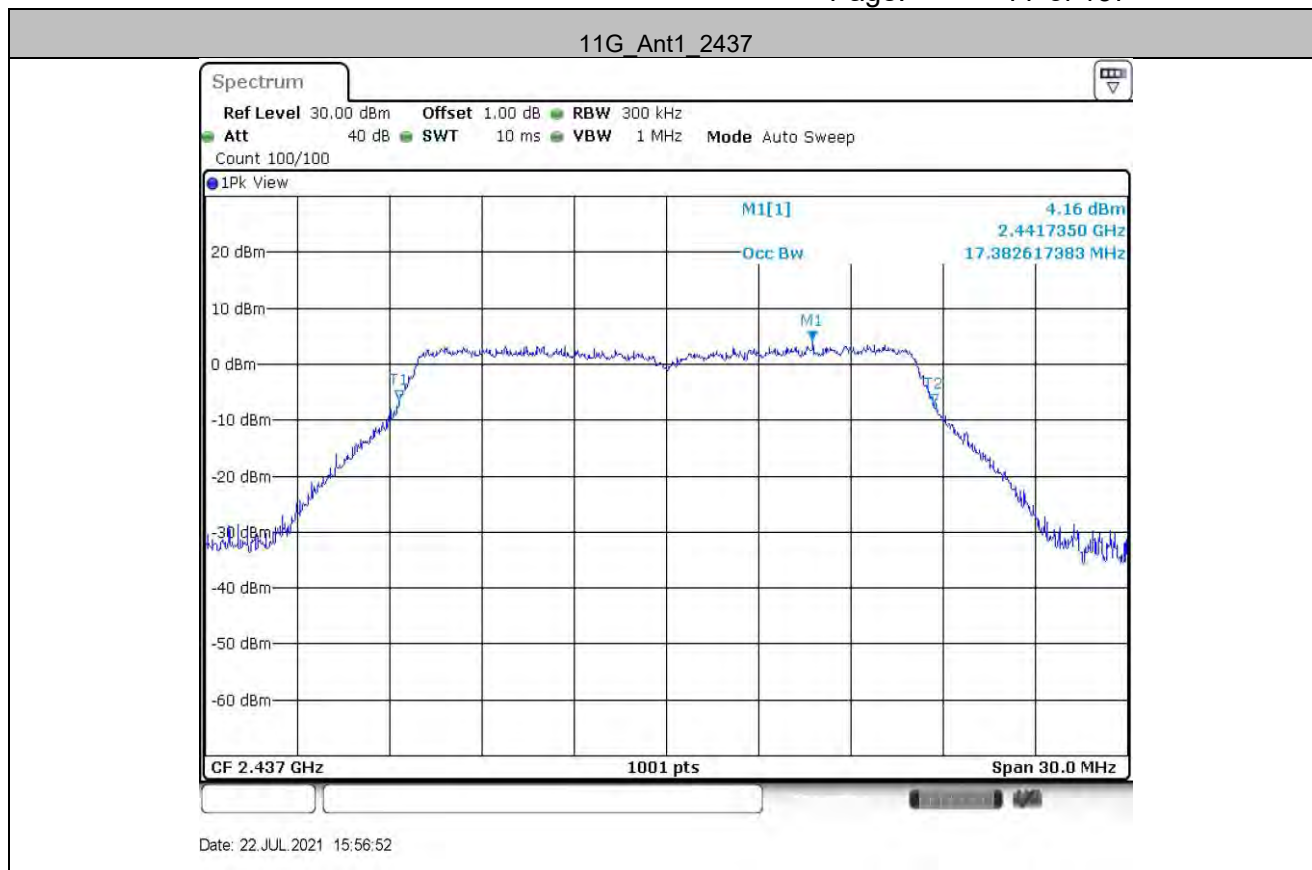
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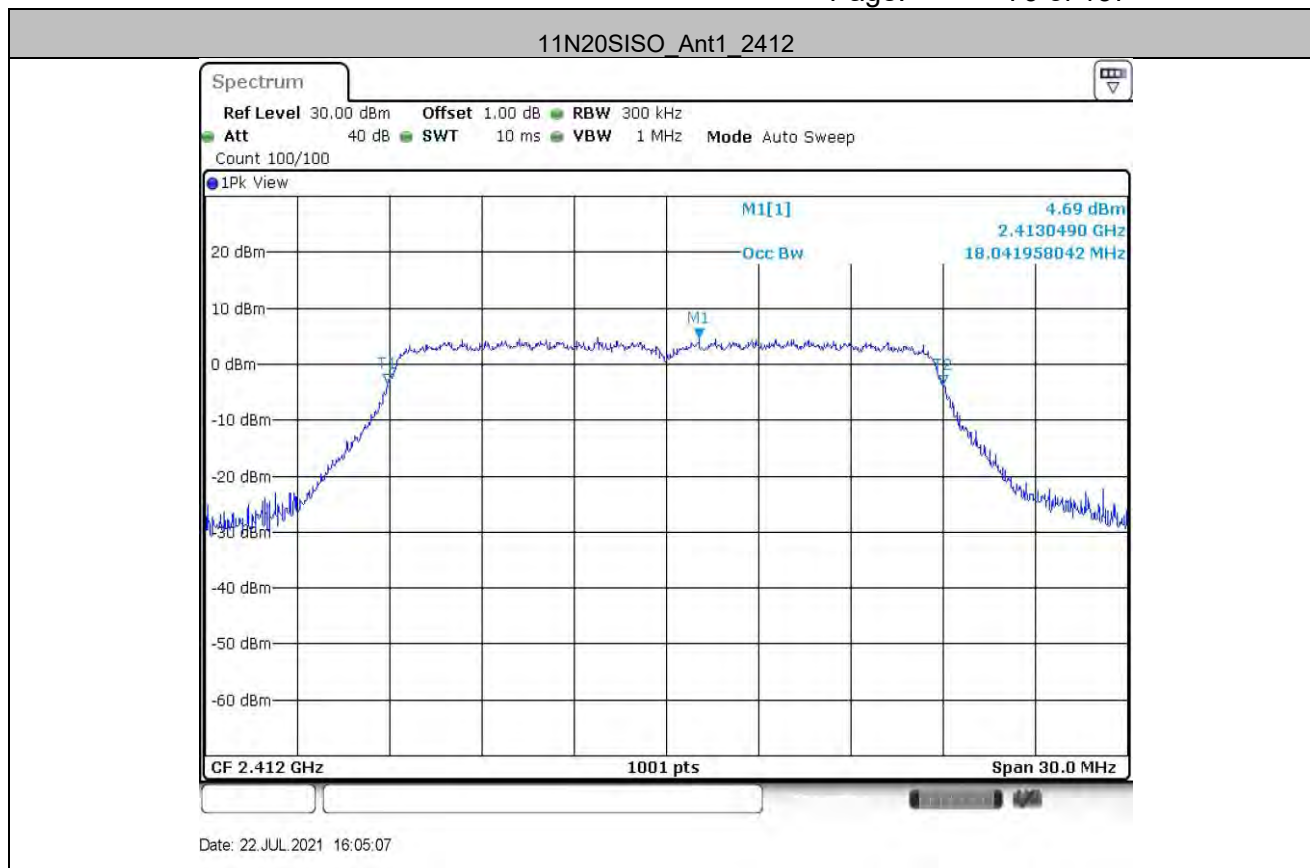
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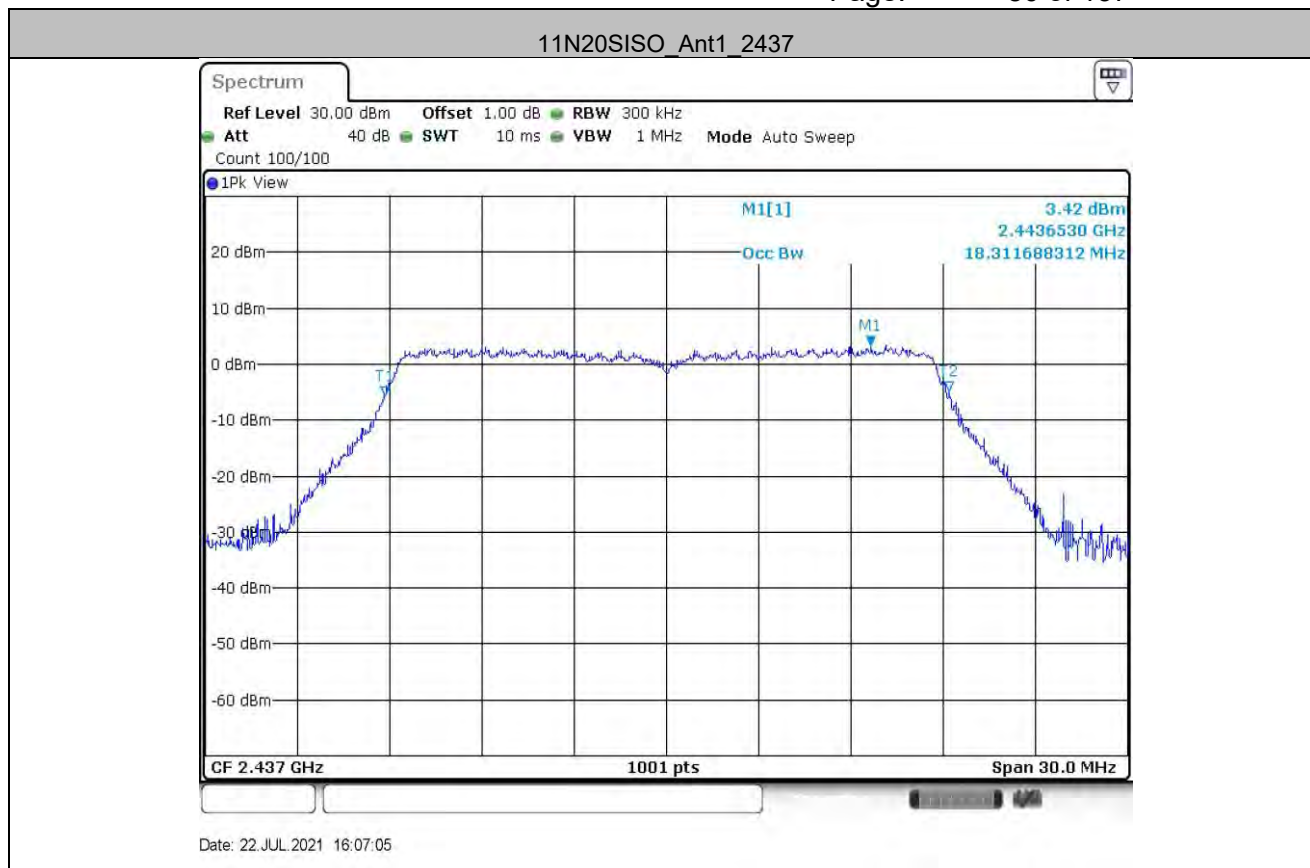
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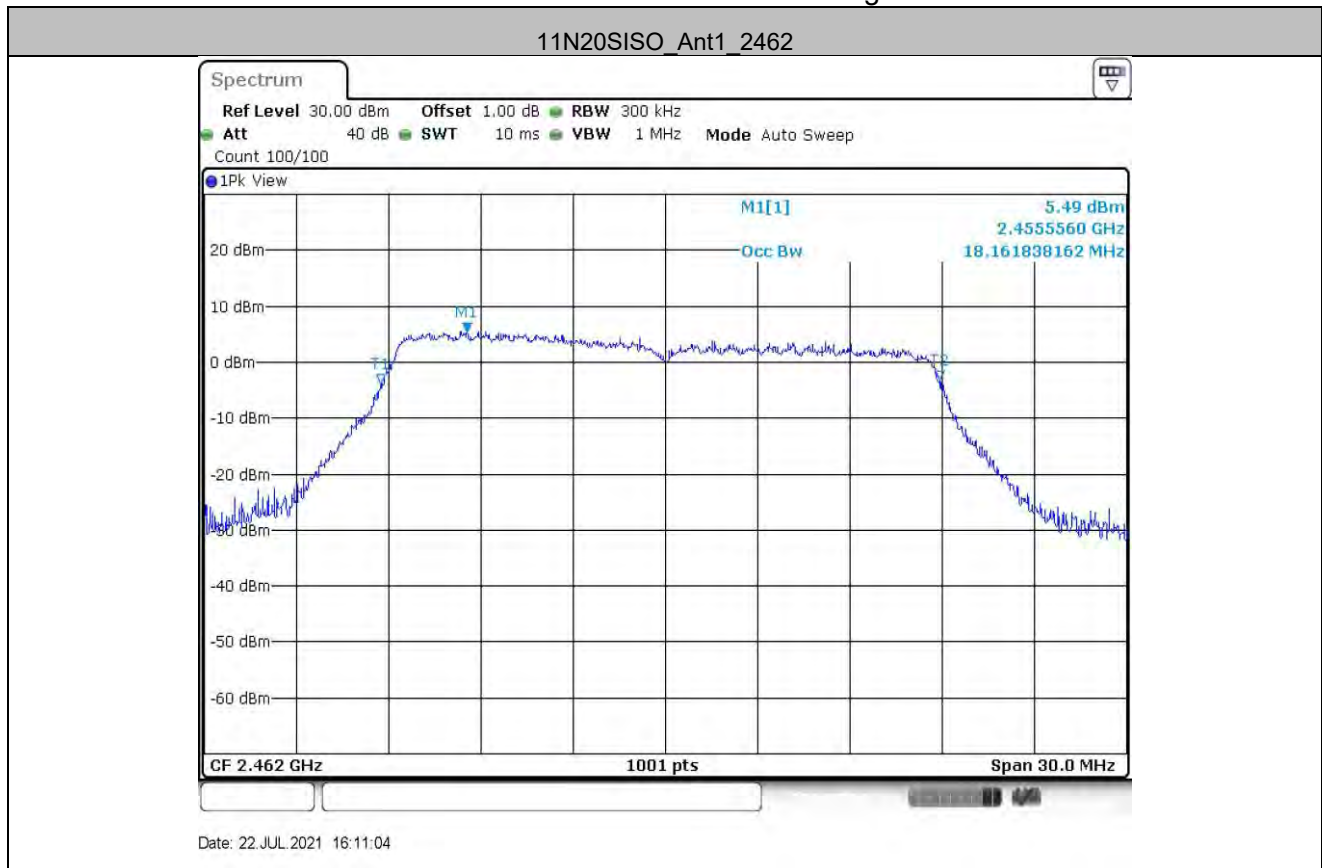


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Report No.: ZR/2021/5004004

Page: 81 of 137



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Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.35	≤30	PASS
		2437	17.51	≤30	PASS
		2462	18.95	≤30	PASS
11G	Ant1	2412	21.00	≤30	PASS
		2437	19.58	≤30	PASS
		2462	20.90	≤30	PASS
11N20SISO	Ant1	2412	21.02	≤30	PASS
		2437	19.70	≤30	PASS
		2462	20.83	≤30	PASS



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Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.84	≤8	PASS
		2437	-7.1	≤8	PASS
		2462	-5.79	≤8	PASS
11G	Ant1	2412	-11.34	≤8	PASS
		2437	-11.9	≤8	PASS
		2462	-10.54	≤8	PASS
11N20SISO	Ant1	2412	-11.71	≤8	PASS
		2437	-11.52	≤8	PASS
		2462	-10.23	≤8	PASS



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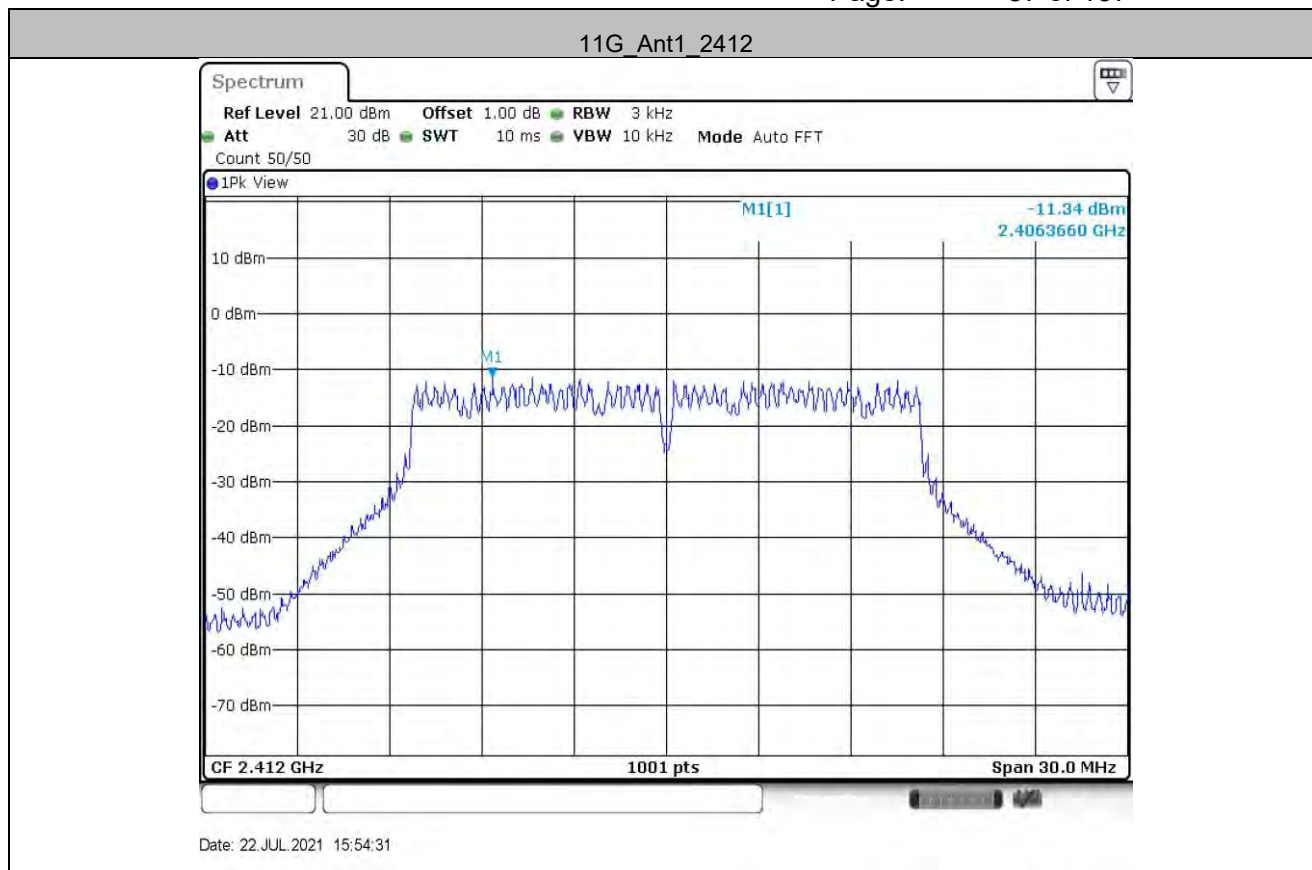
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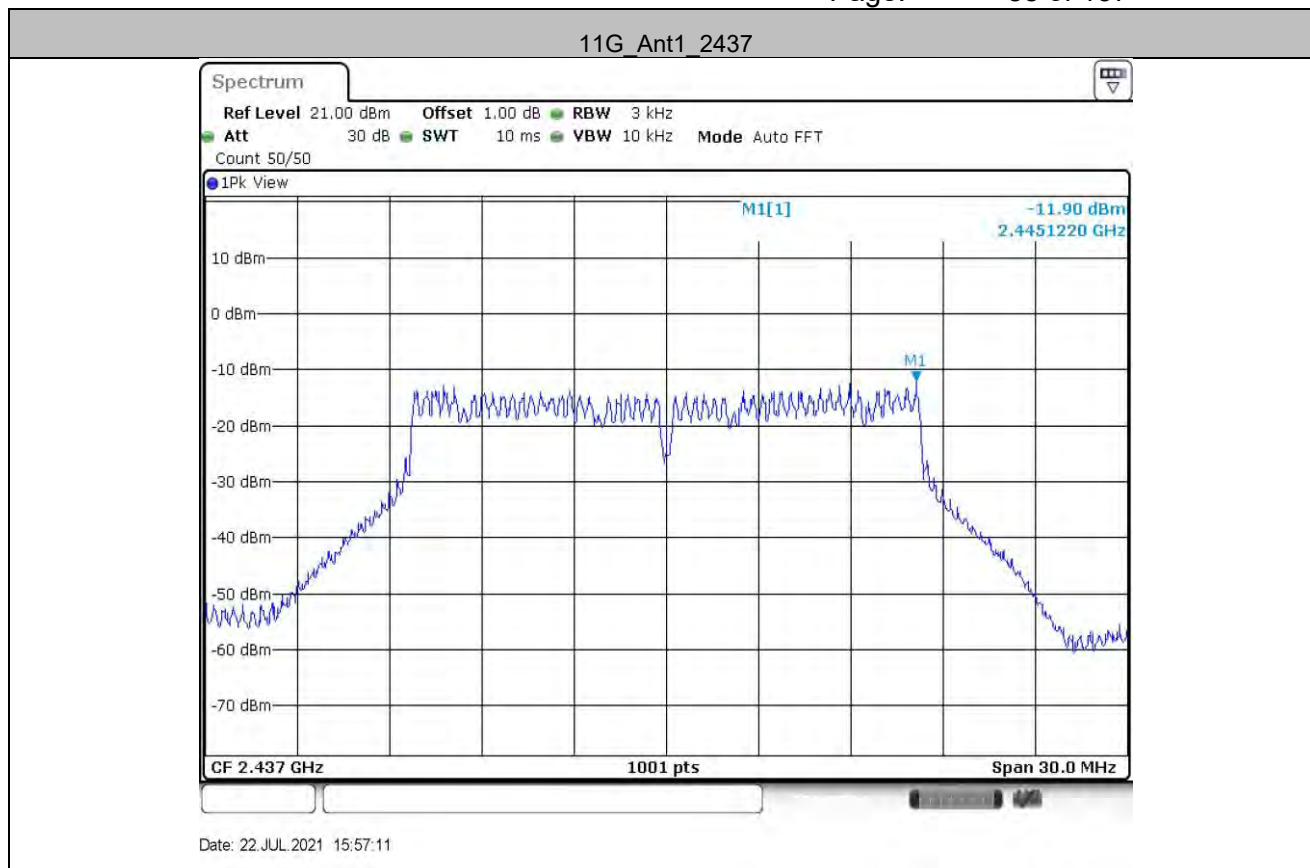


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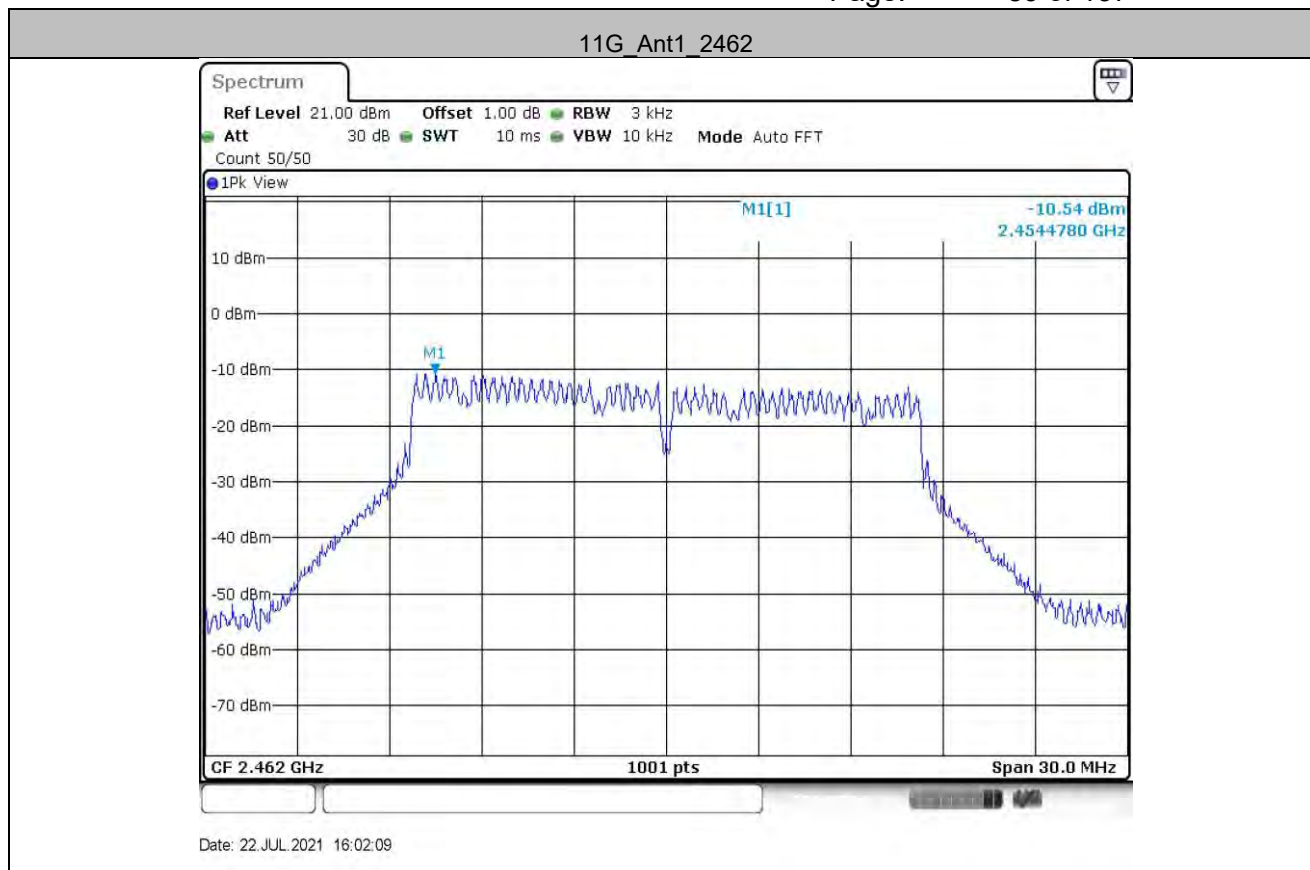
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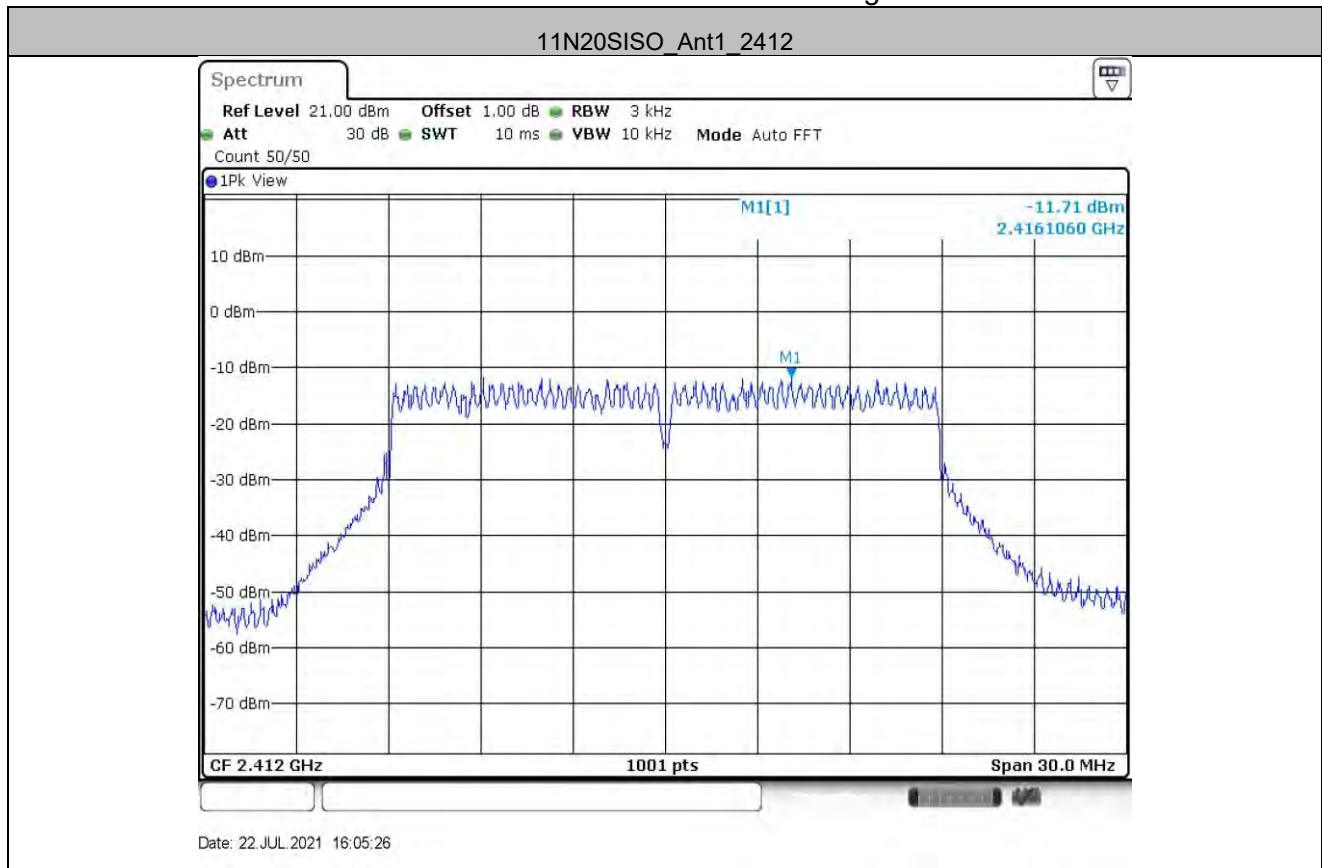
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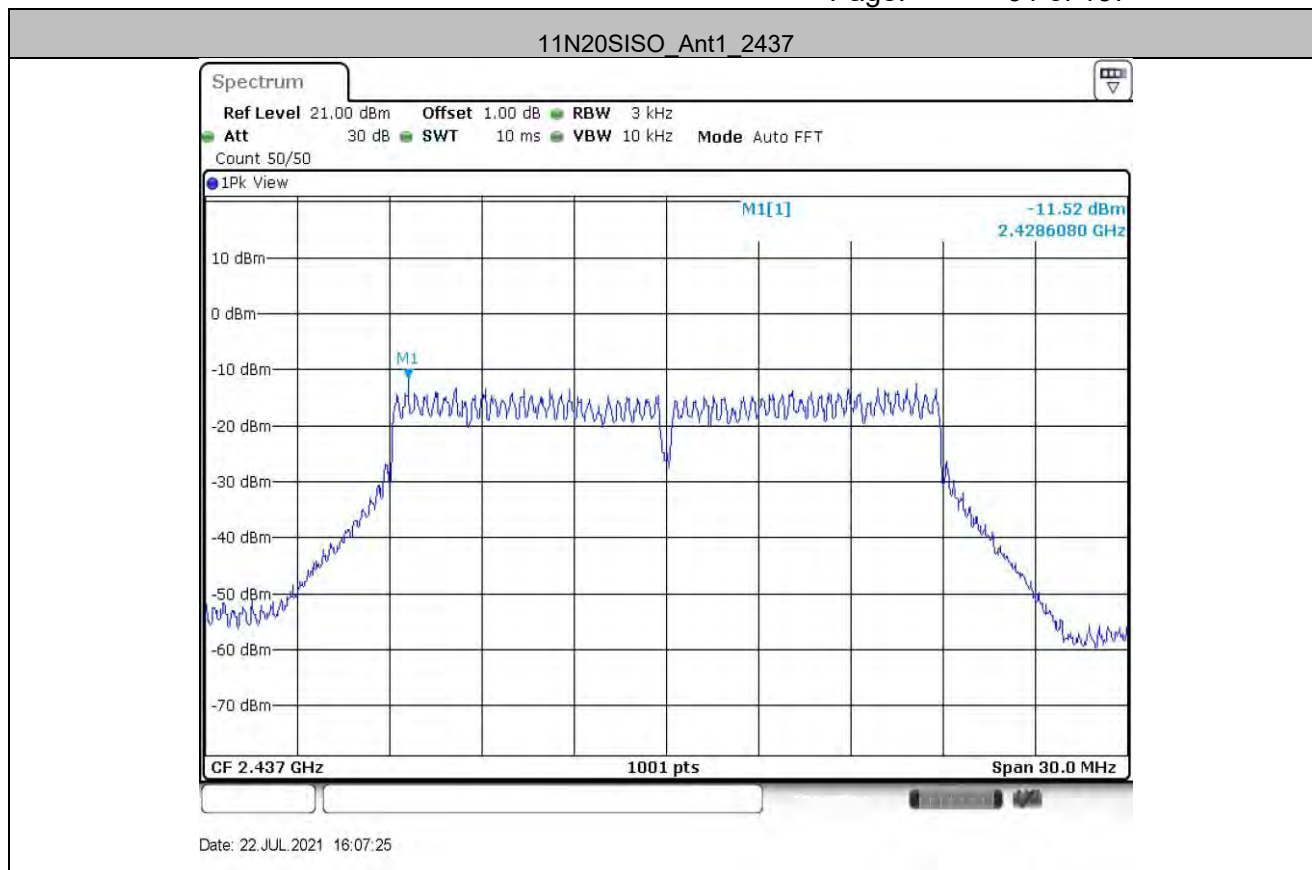
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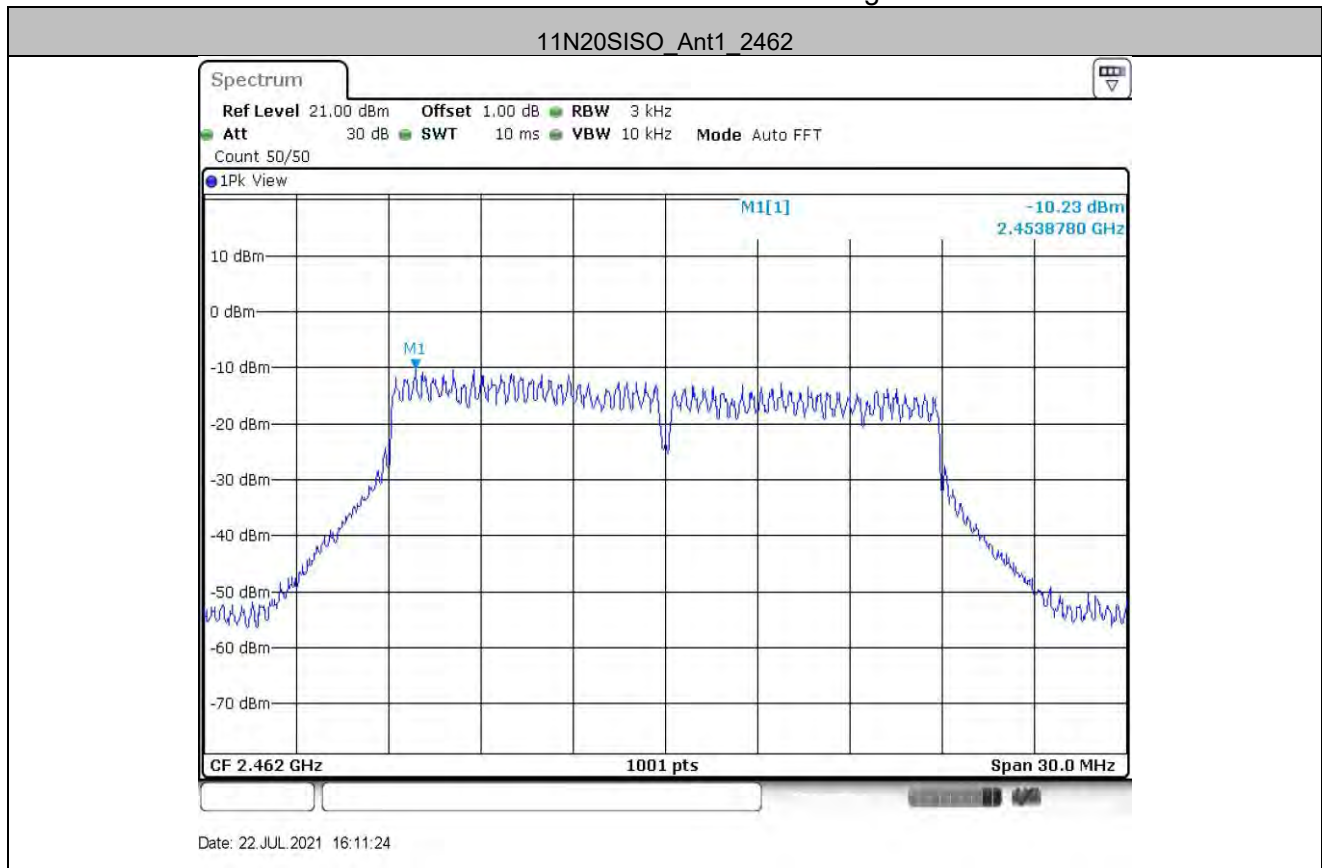
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Report No.: ZR/2021/5004004
Page: 93 of 137

Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.31	-43.18	≤-12.69	PASS
		High	2462	7.88	-55.71	≤-12.12	PASS
11G	Ant1	Low	2412	1.77	-30.05	≤-18.23	PASS
		High	2462	2.83	-47.19	≤-17.17	PASS
11N20SISO	Ant1	Low	2412	1.76	-31.29	≤-18.24	PASS
		High	2462	2.83	-44.33	≤-17.17	PASS



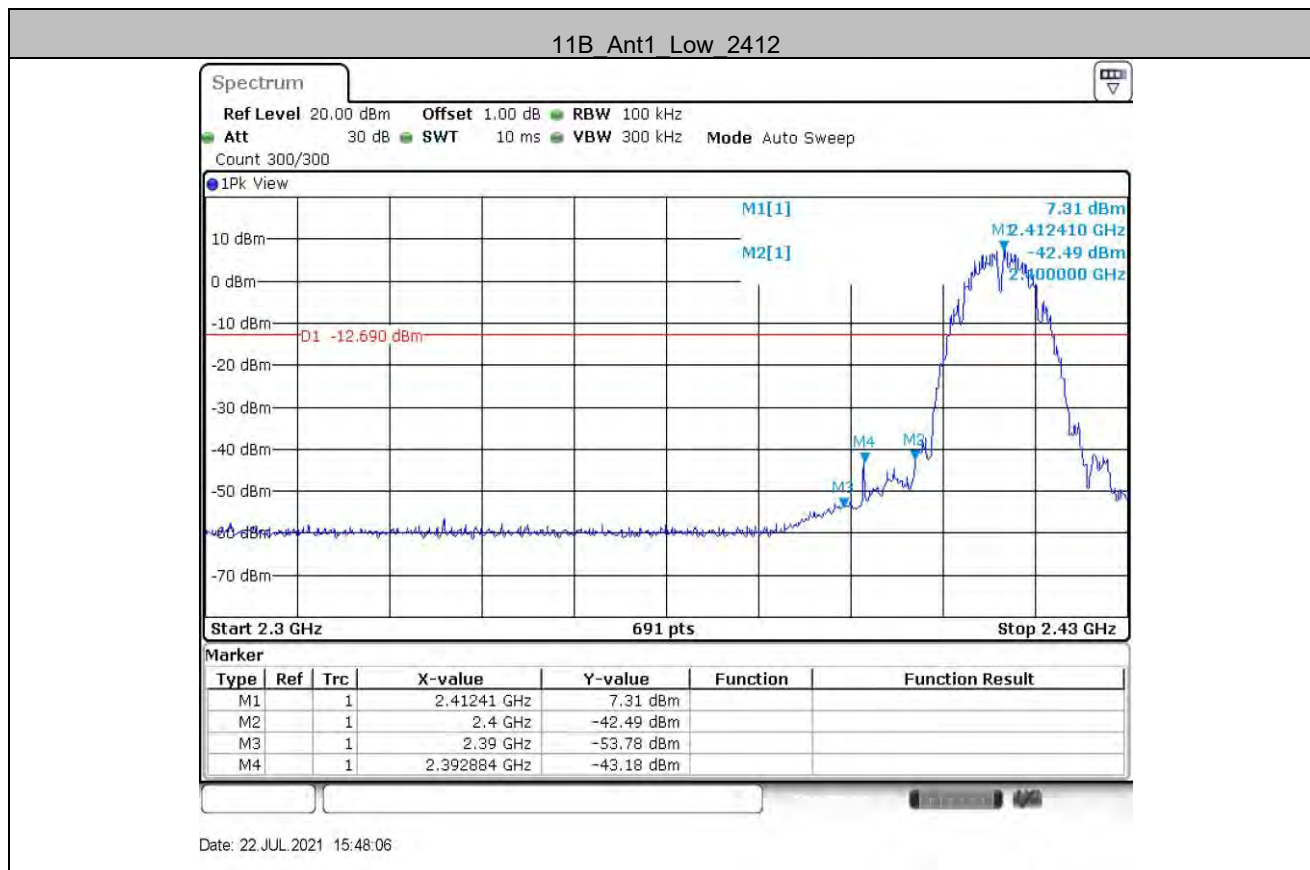
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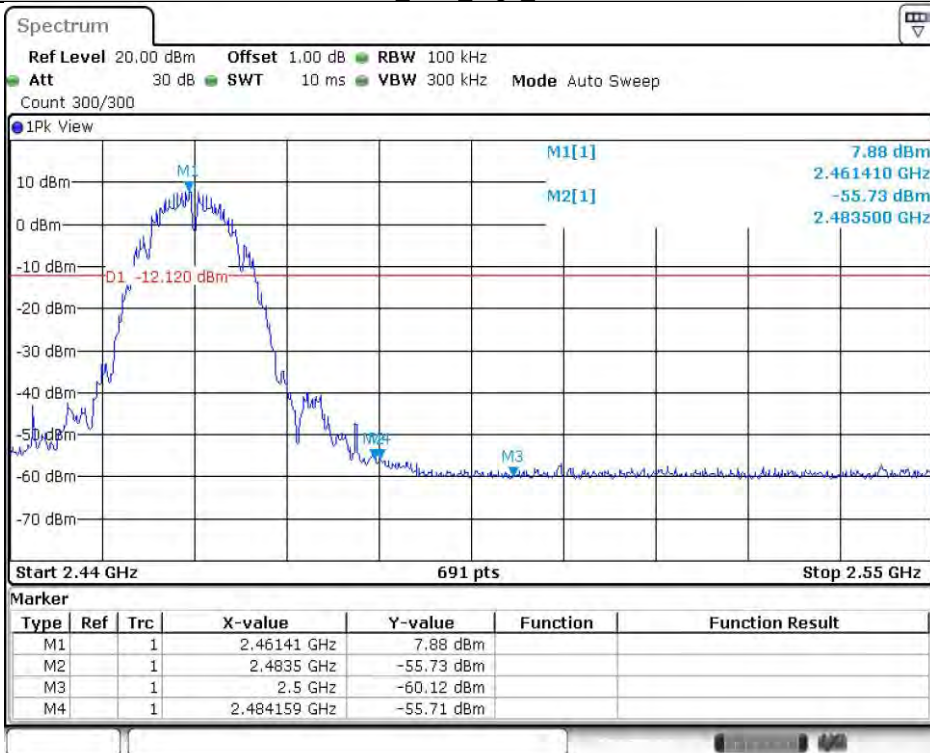
Test Graphs



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11B_Ant1_High_2462

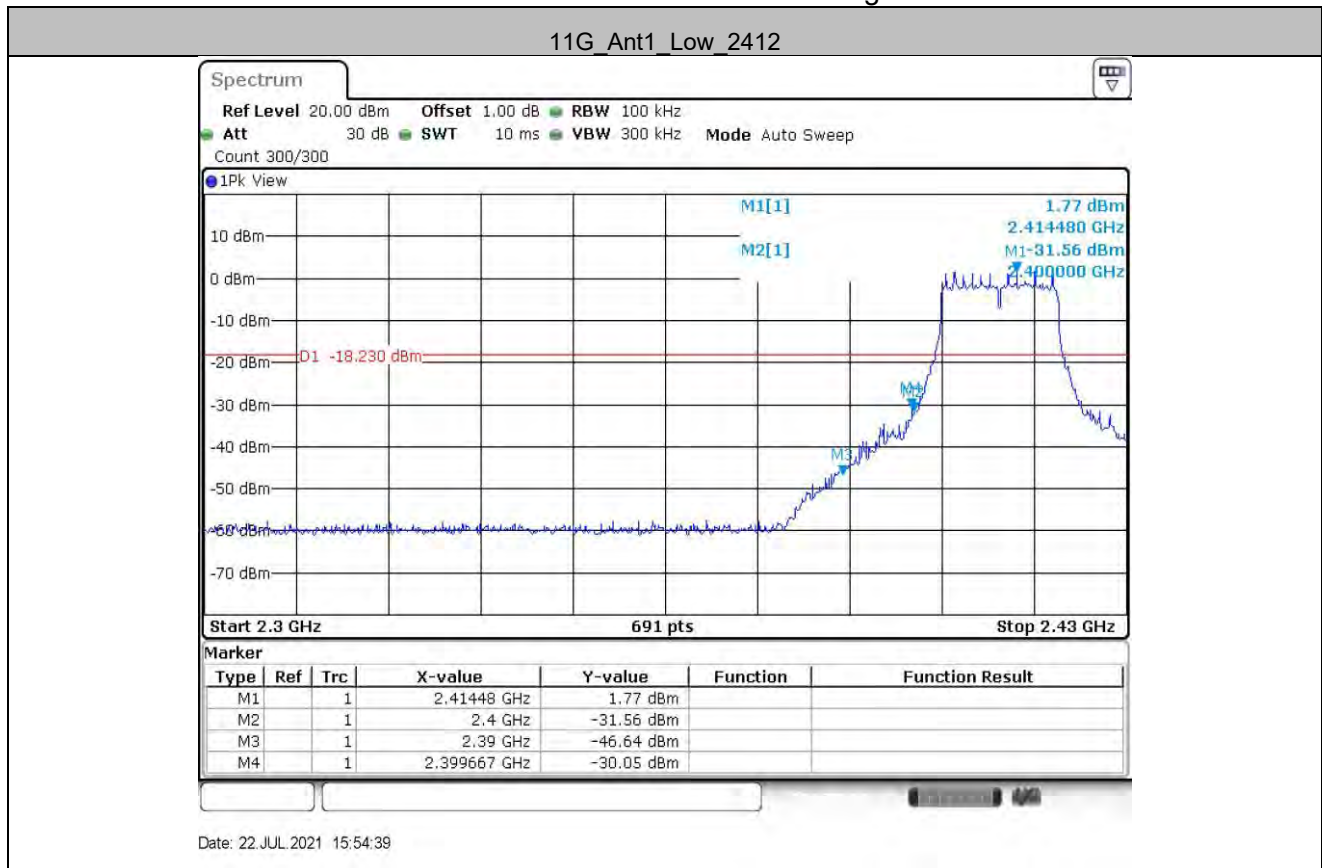


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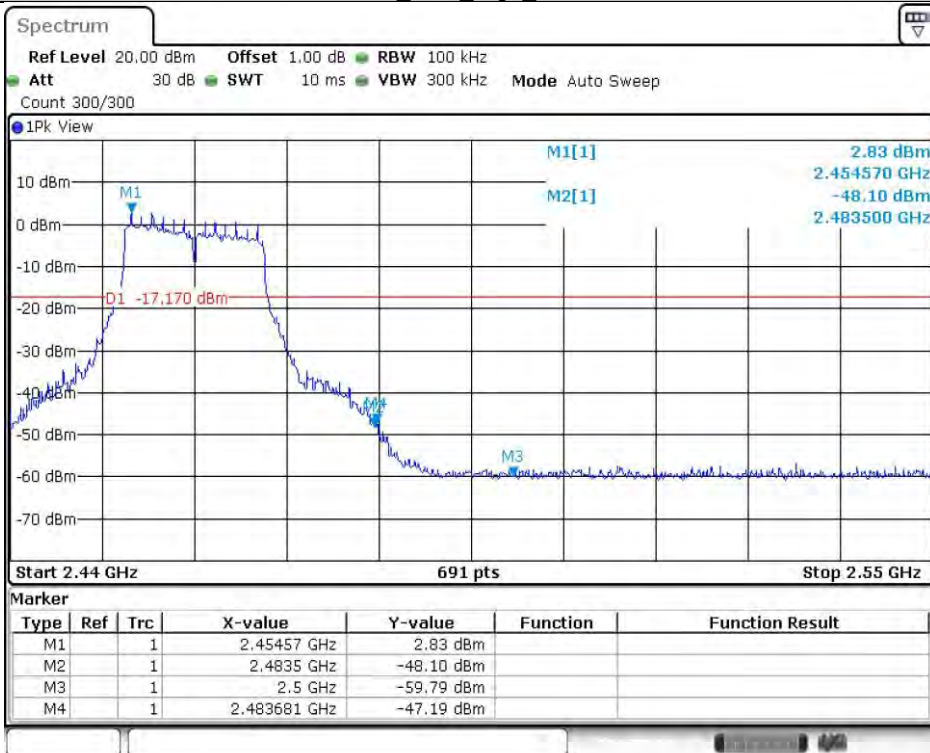
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11G_Ant1_High_2462



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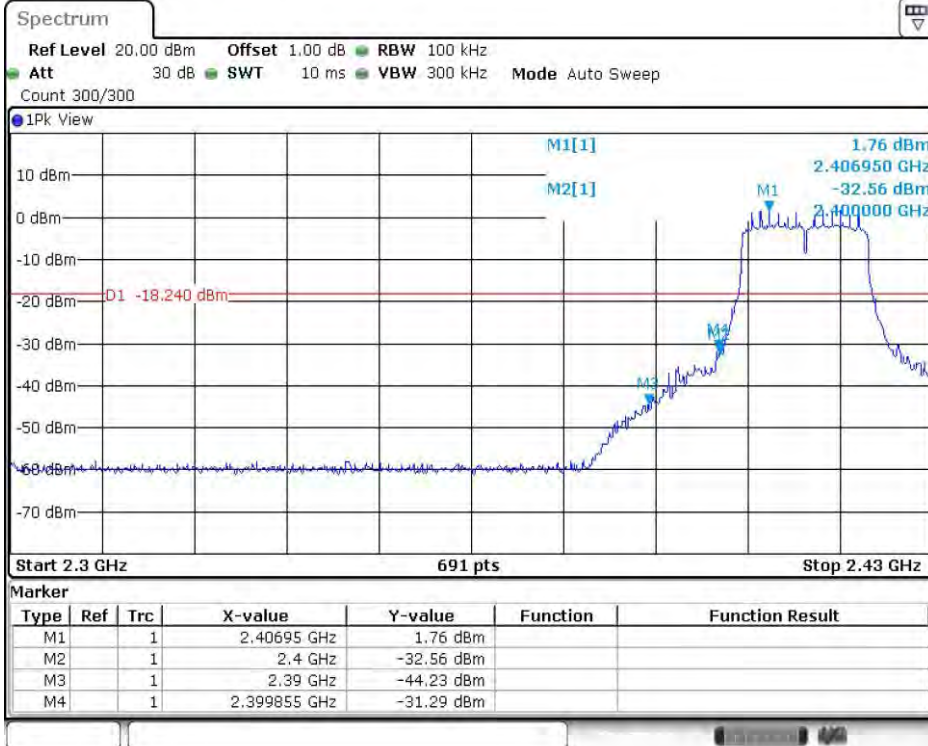
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11N20SISO_Ant1_Low_2412



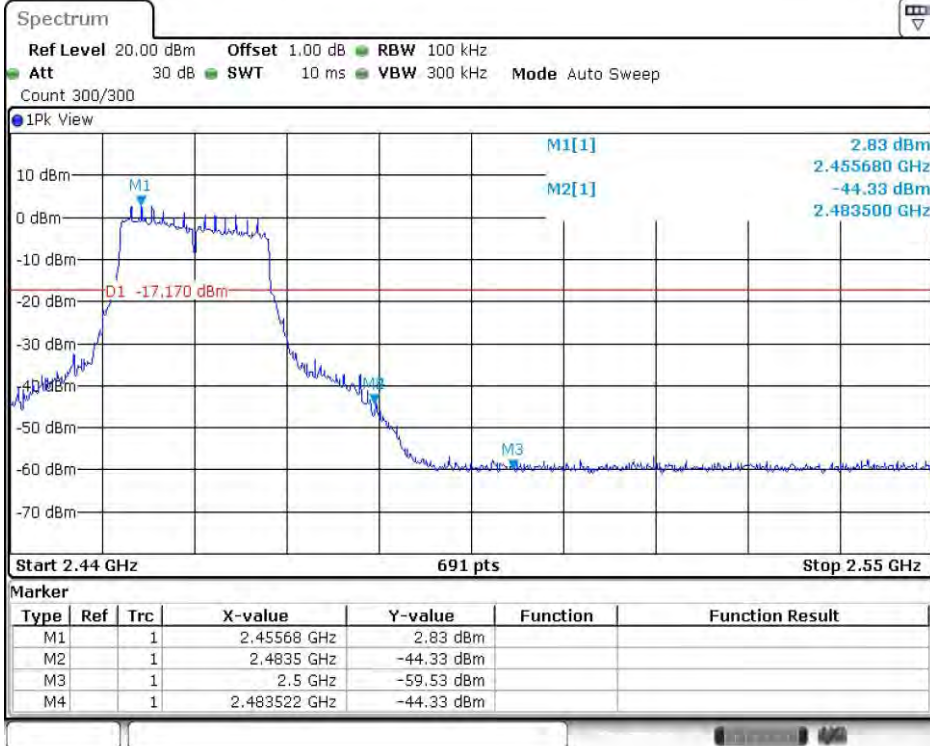
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11N20SISO_Ant1_High_2462



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Report No.: ZR/2021/5004004

Page: 100 of 137

Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.30	7.30	---	PASS
			30~1000	7.30	-46.14	≤-12.7	PASS
			1000~26500	7.30	-30.33	≤-12.7	PASS
		2437	Reference	6.22	6.22	---	PASS
			30~1000	6.22	-45.16	≤-13.78	PASS
			1000~26500	6.22	-30.16	≤-13.78	PASS
		2462	Reference	7.91	7.91	---	PASS
			30~1000	7.91	-46.13	≤-12.09	PASS
			1000~26500	7.91	-31.11	≤-12.09	PASS
11G	Ant1	2412	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-45.49	≤-18.08	PASS
			1000~26500	1.92	-30.84	≤-18.08	PASS
		2437	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-44.64	≤-19.11	PASS
			1000~26500	0.89	-31.02	≤-19.11	PASS
		2462	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-45.37	≤-18.07	PASS
			1000~26500	1.93	-30.04	≤-18.07	PASS
11N20SISO	Ant1	2412	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-45.15	≤-18.1	PASS
			1000~26500	1.90	-30.98	≤-18.1	PASS
		2437	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-45.18	≤-19.41	PASS
			1000~26500	0.59	-31.29	≤-19.41	PASS
		2462	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-45.48	≤-16.99	PASS
			1000~26500	3.01	-31.04	≤-16.99	PASS



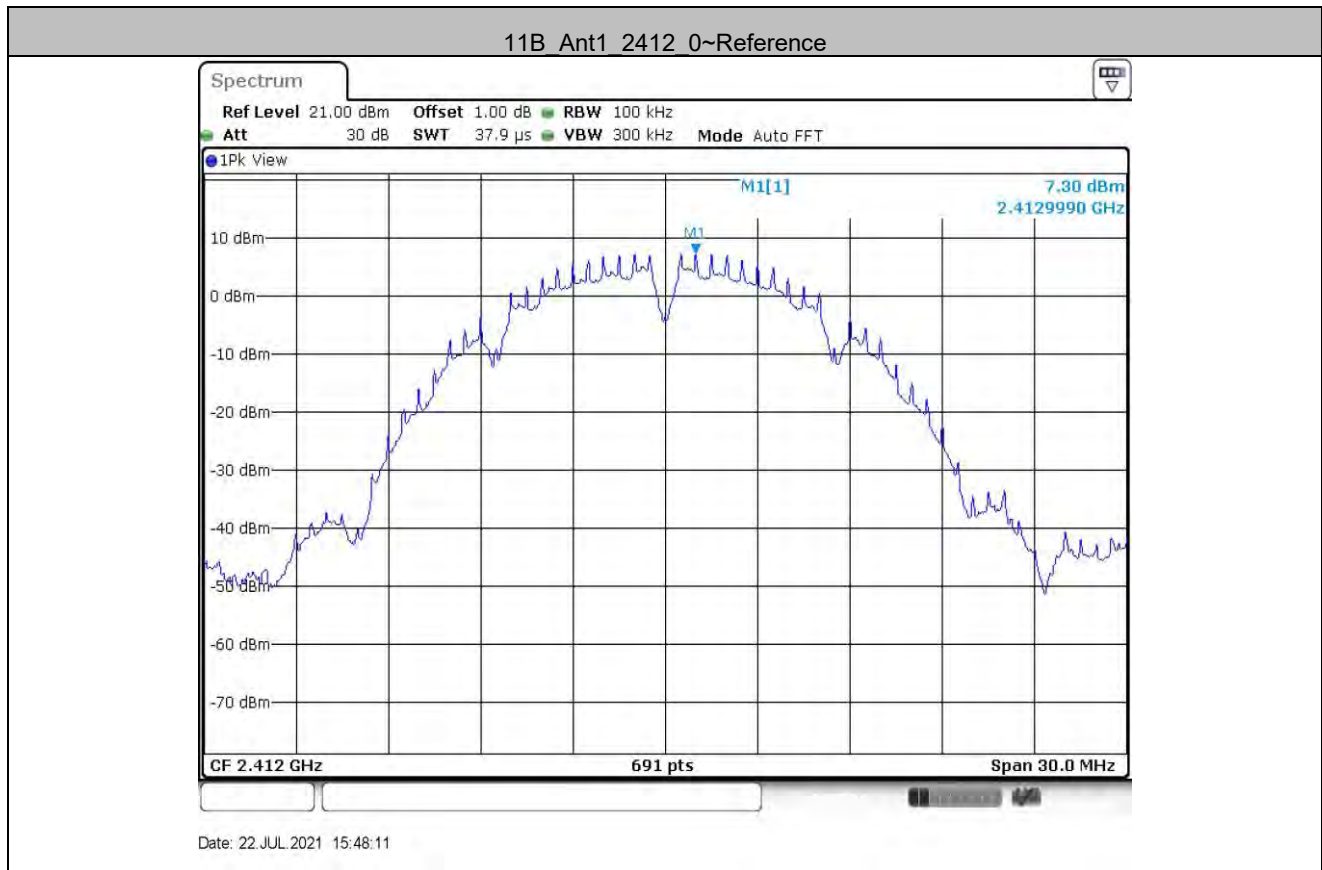
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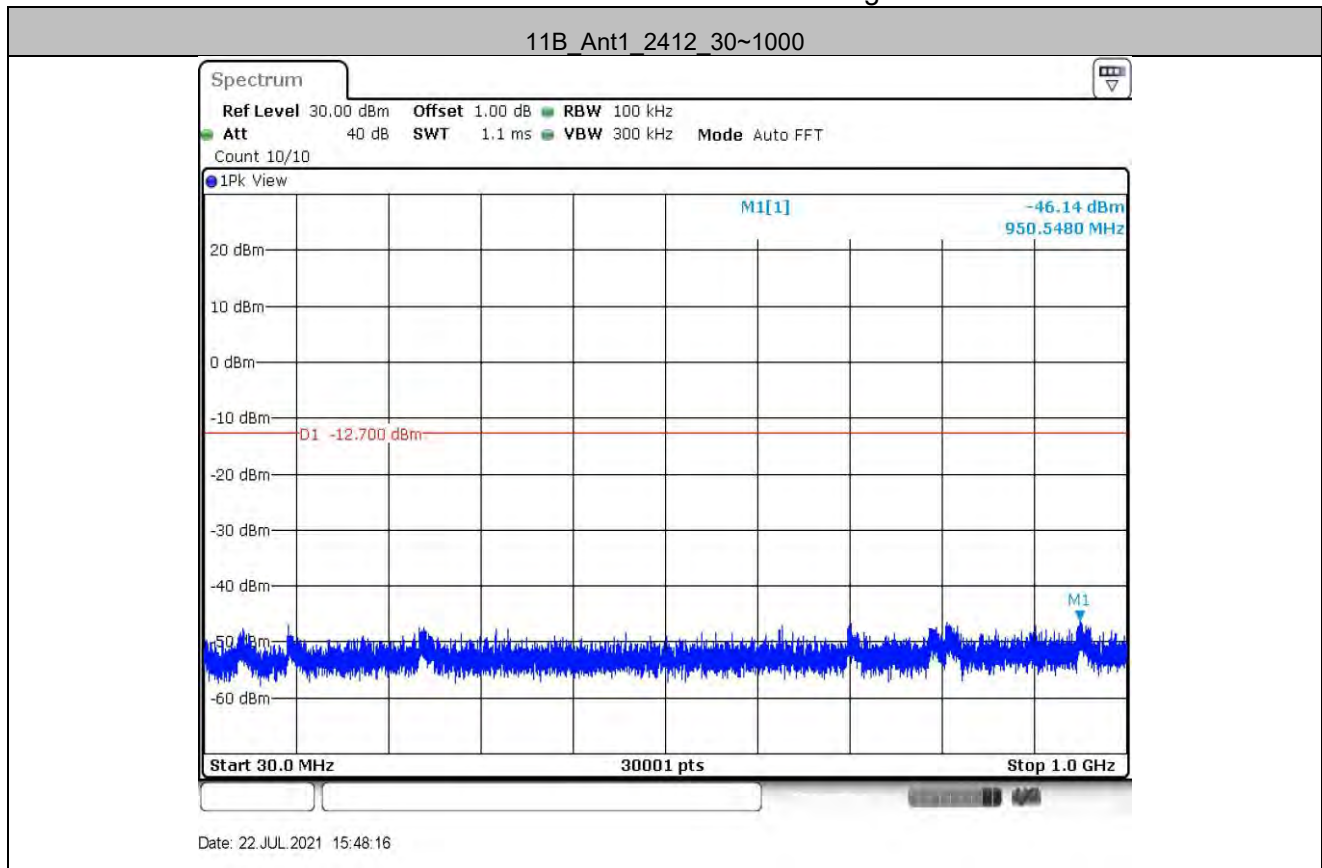
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Test Graphs



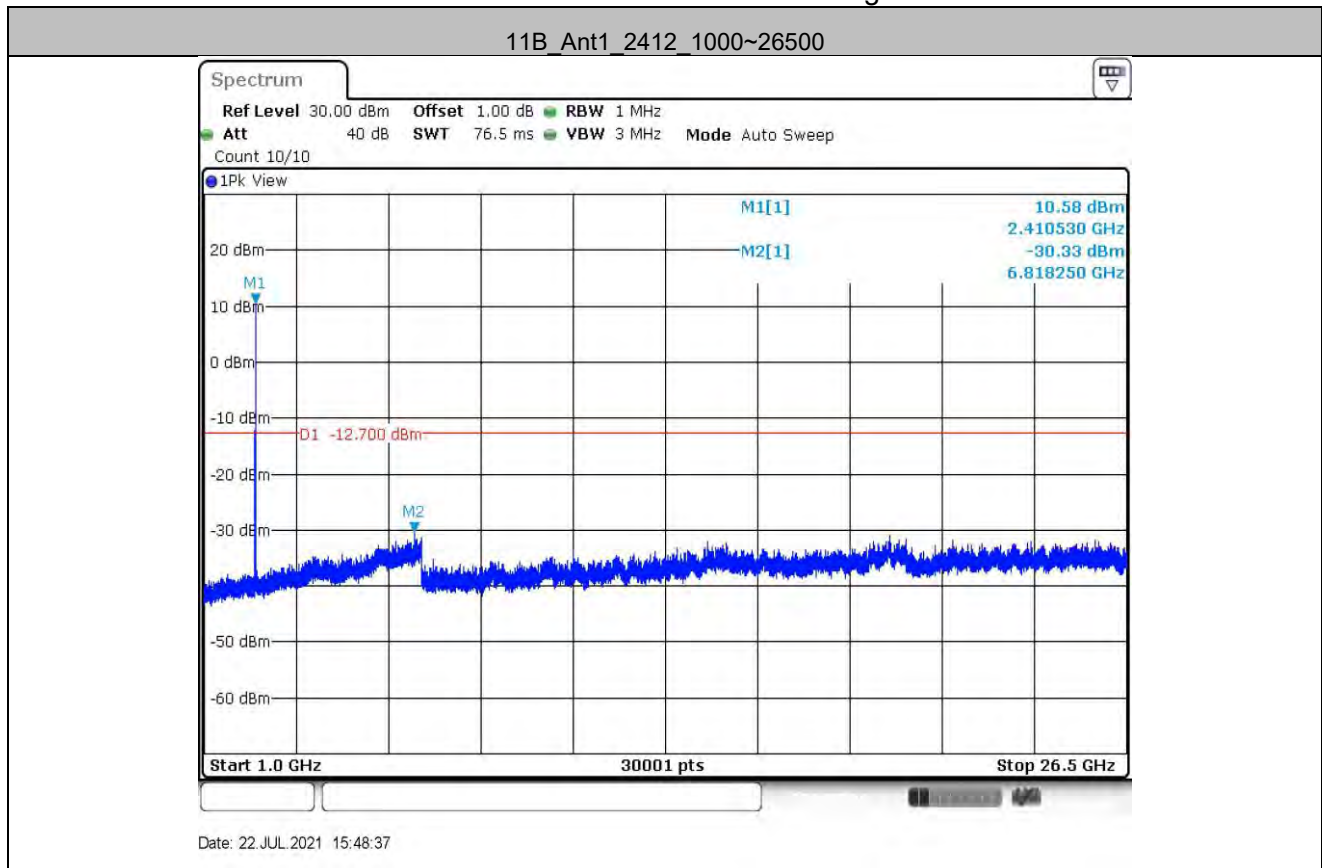
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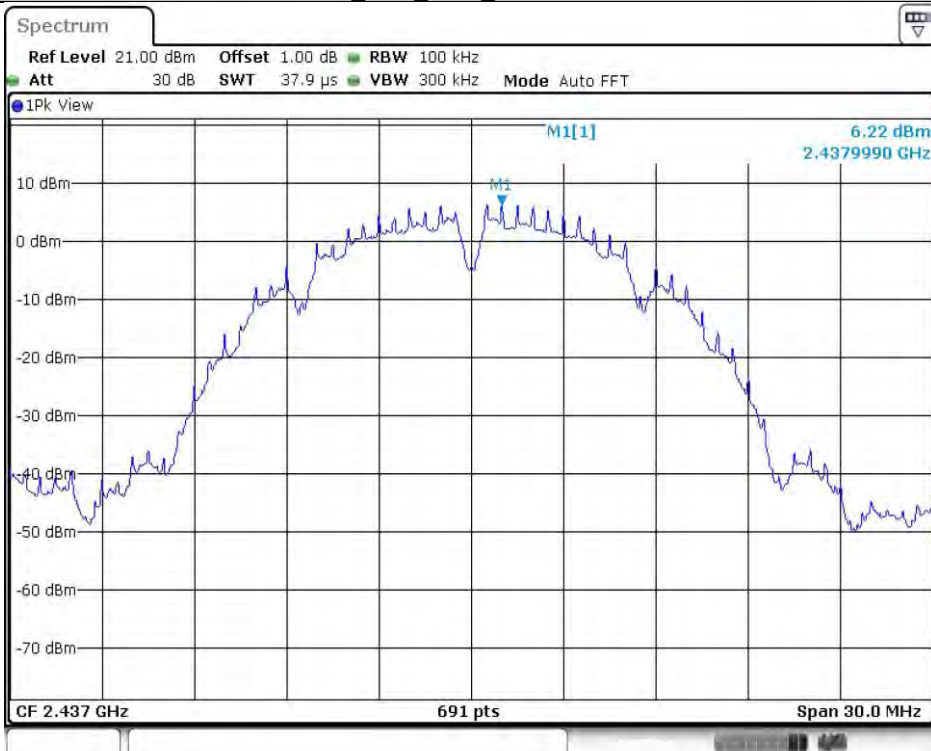
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11B_Ant1_2437_0~Reference

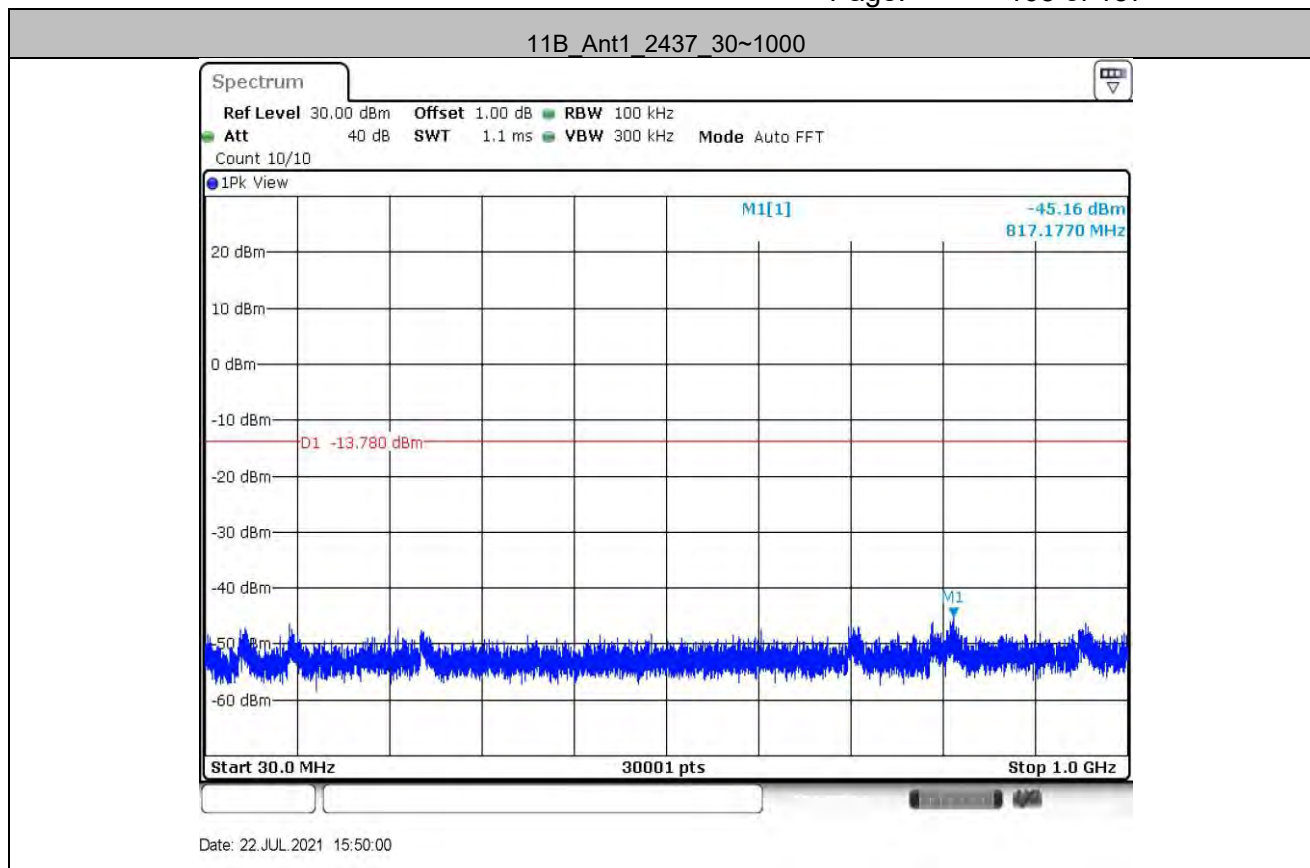


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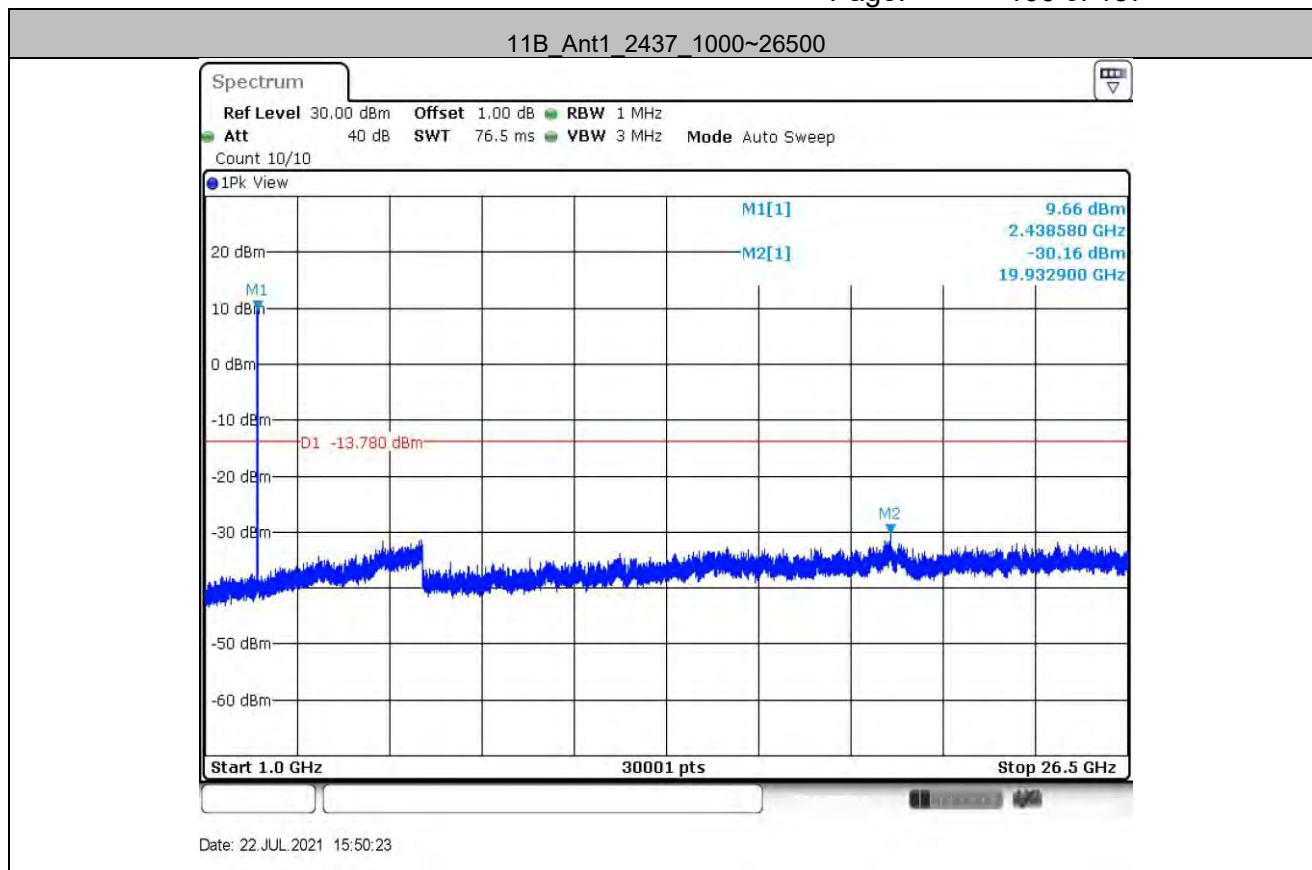
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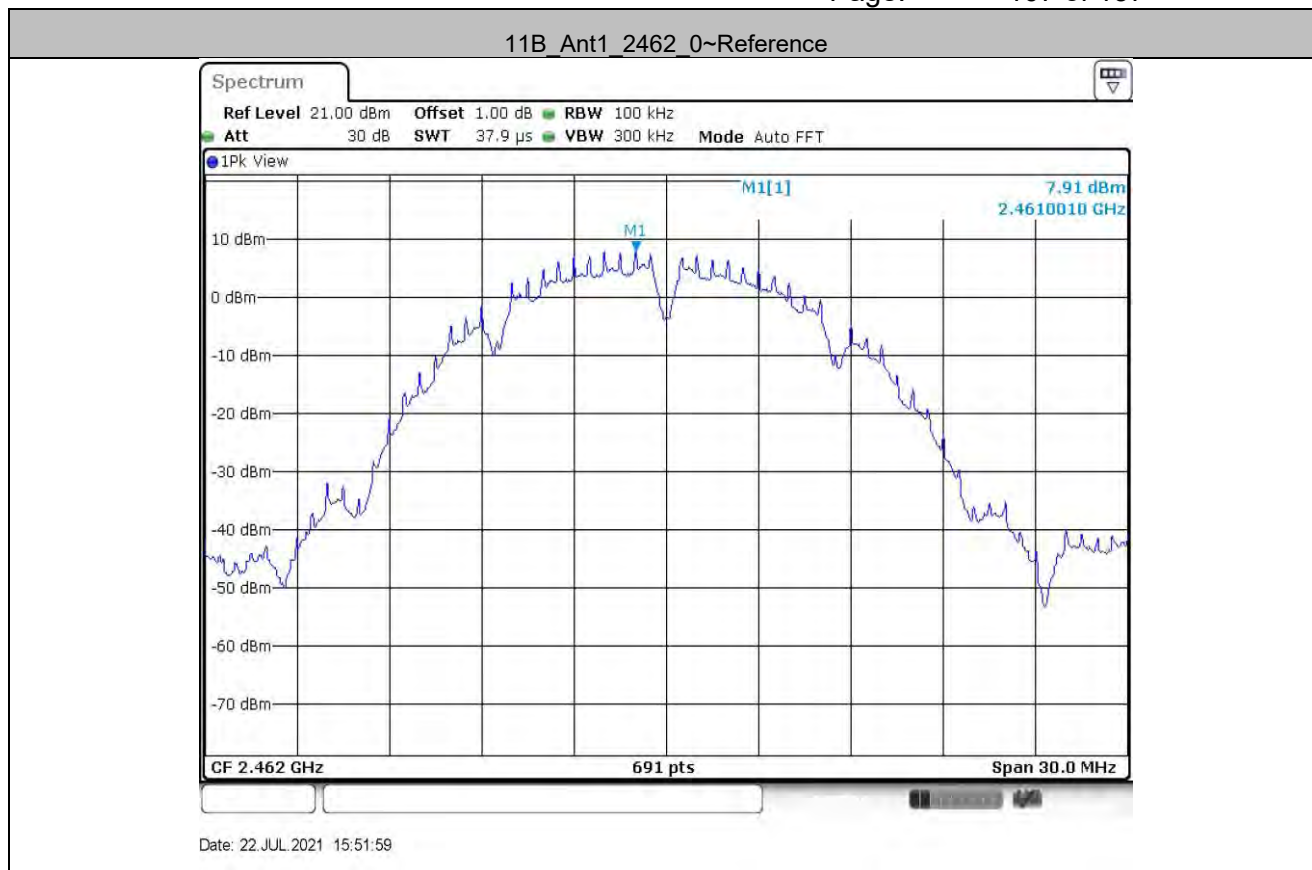
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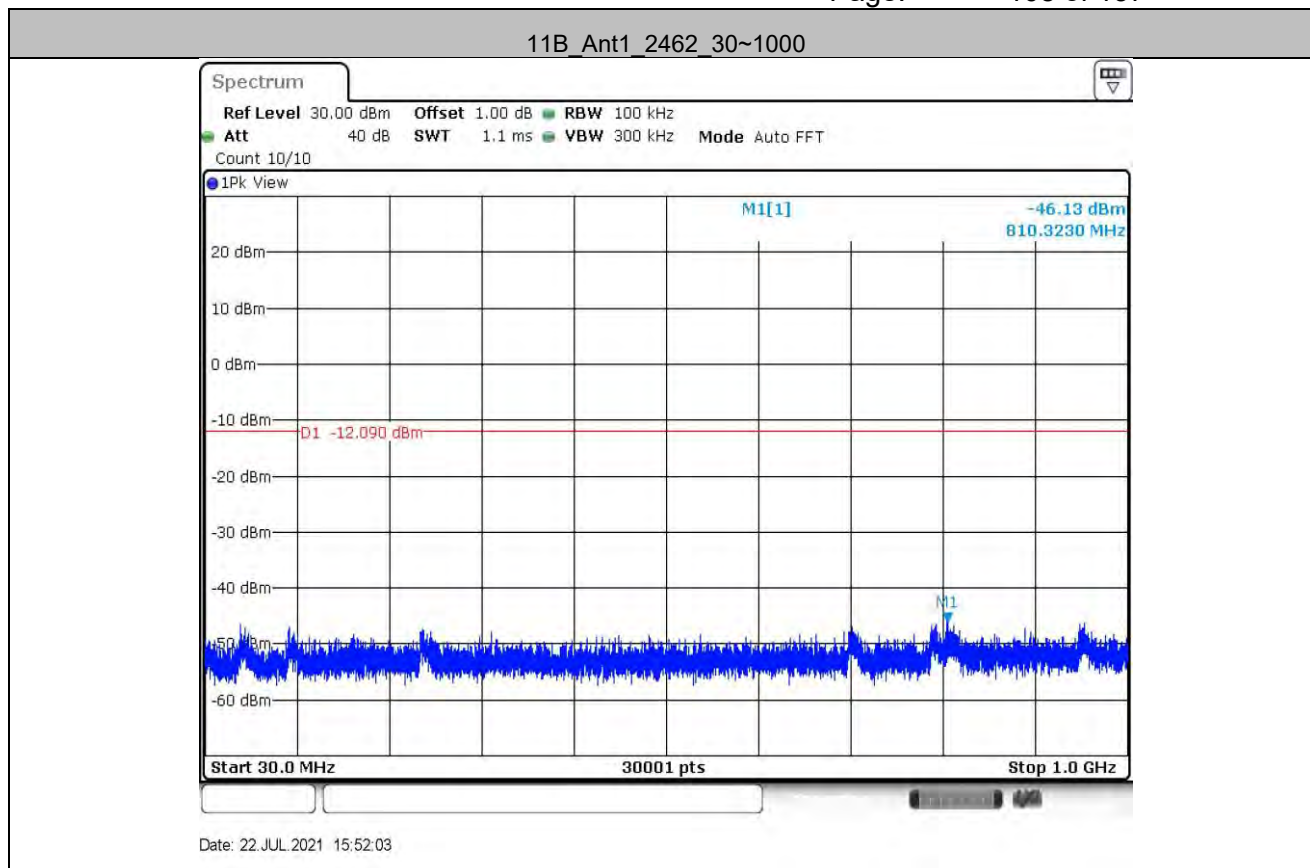
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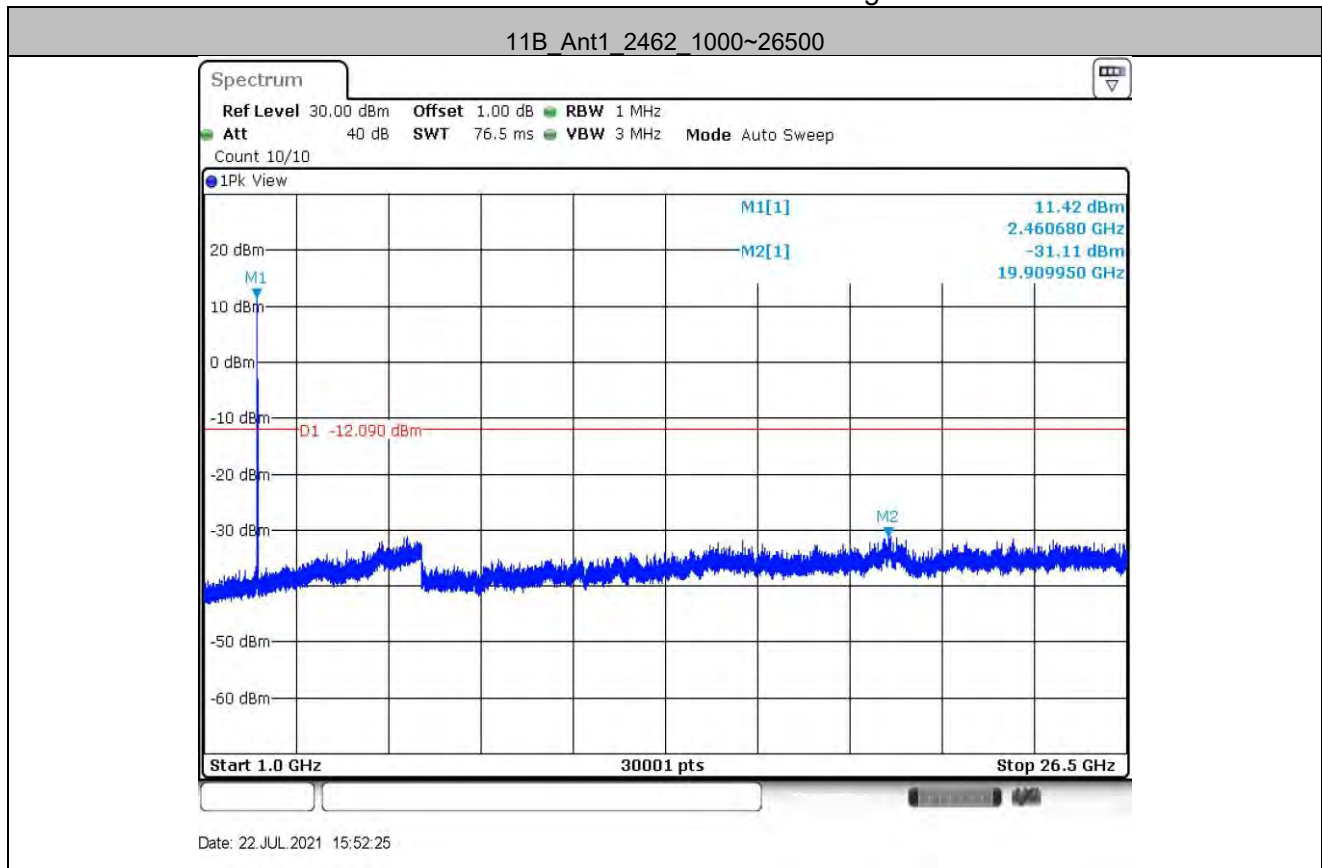
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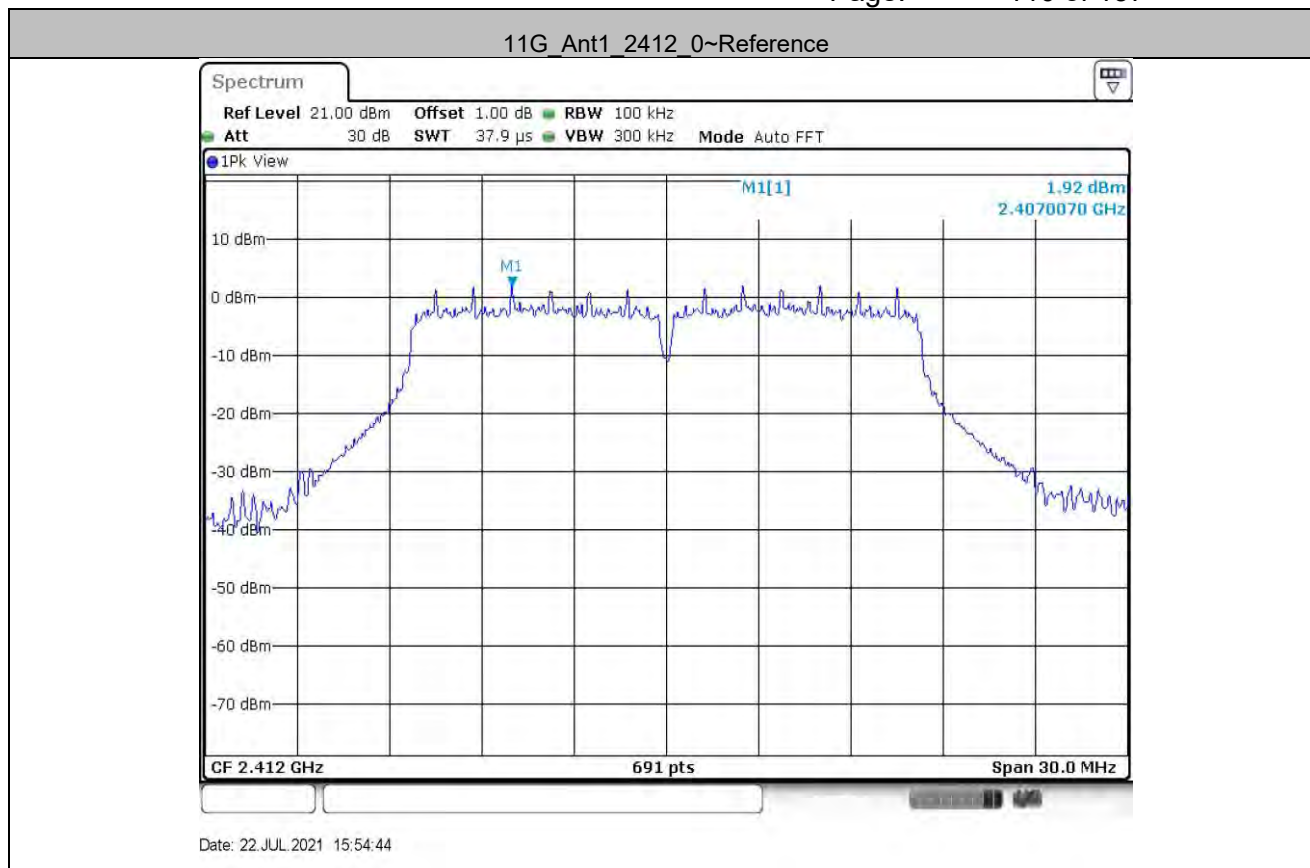
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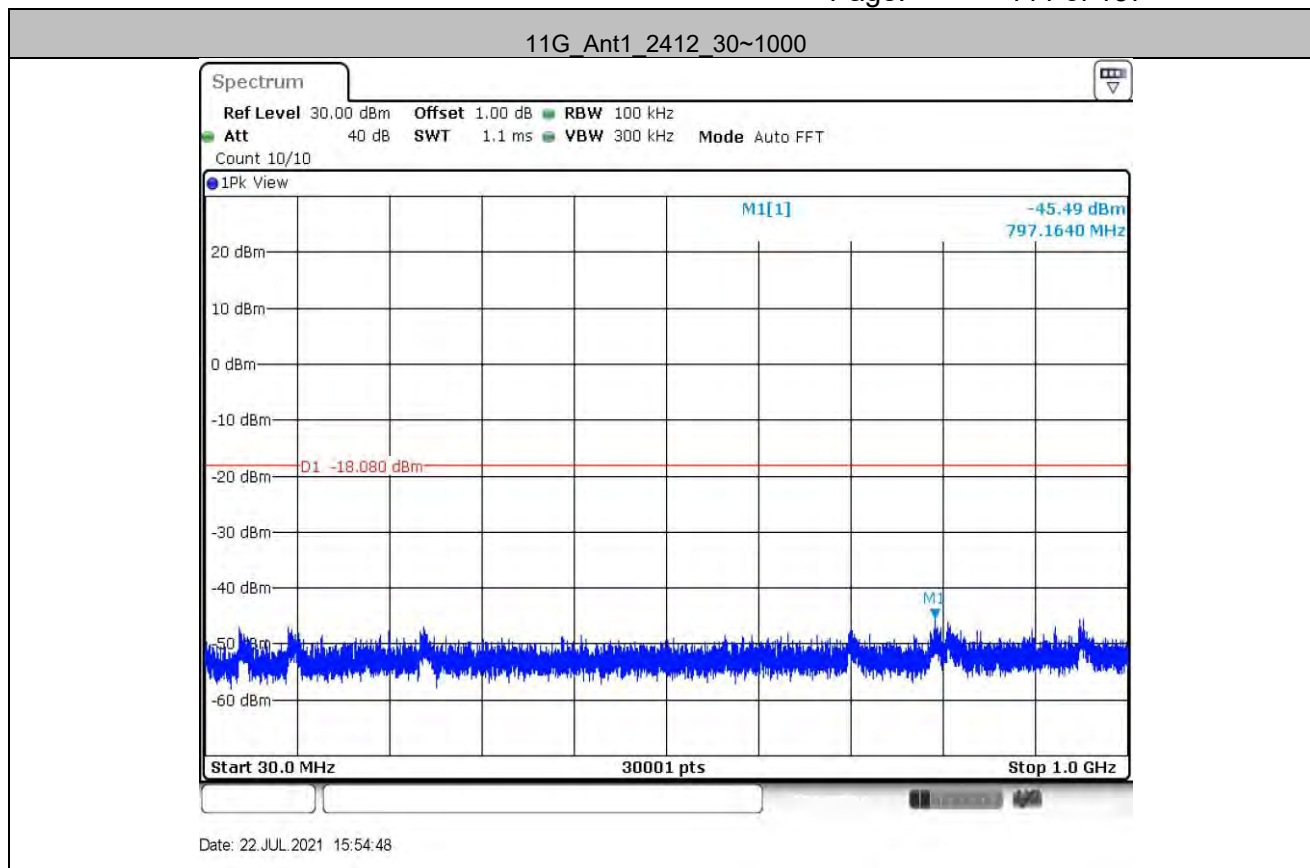
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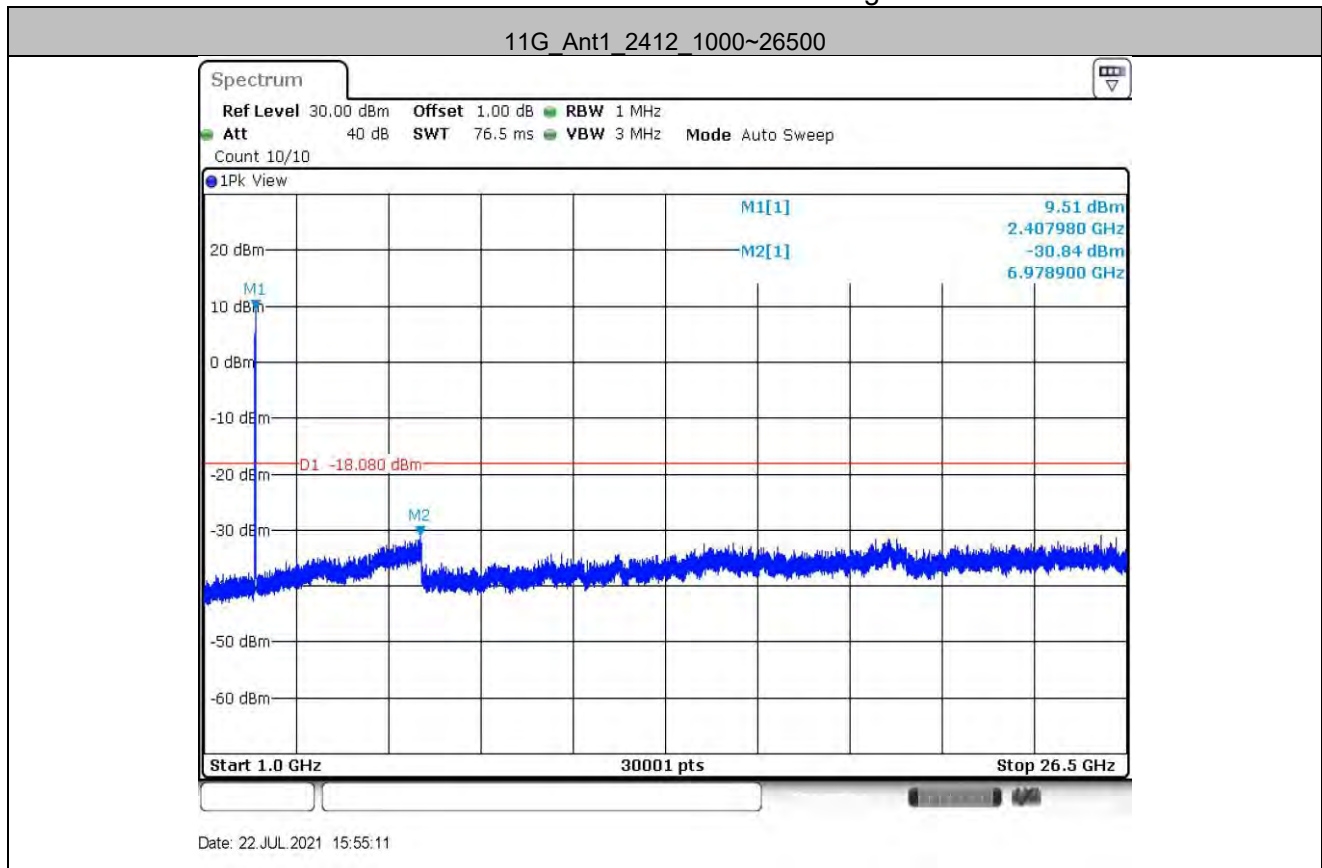
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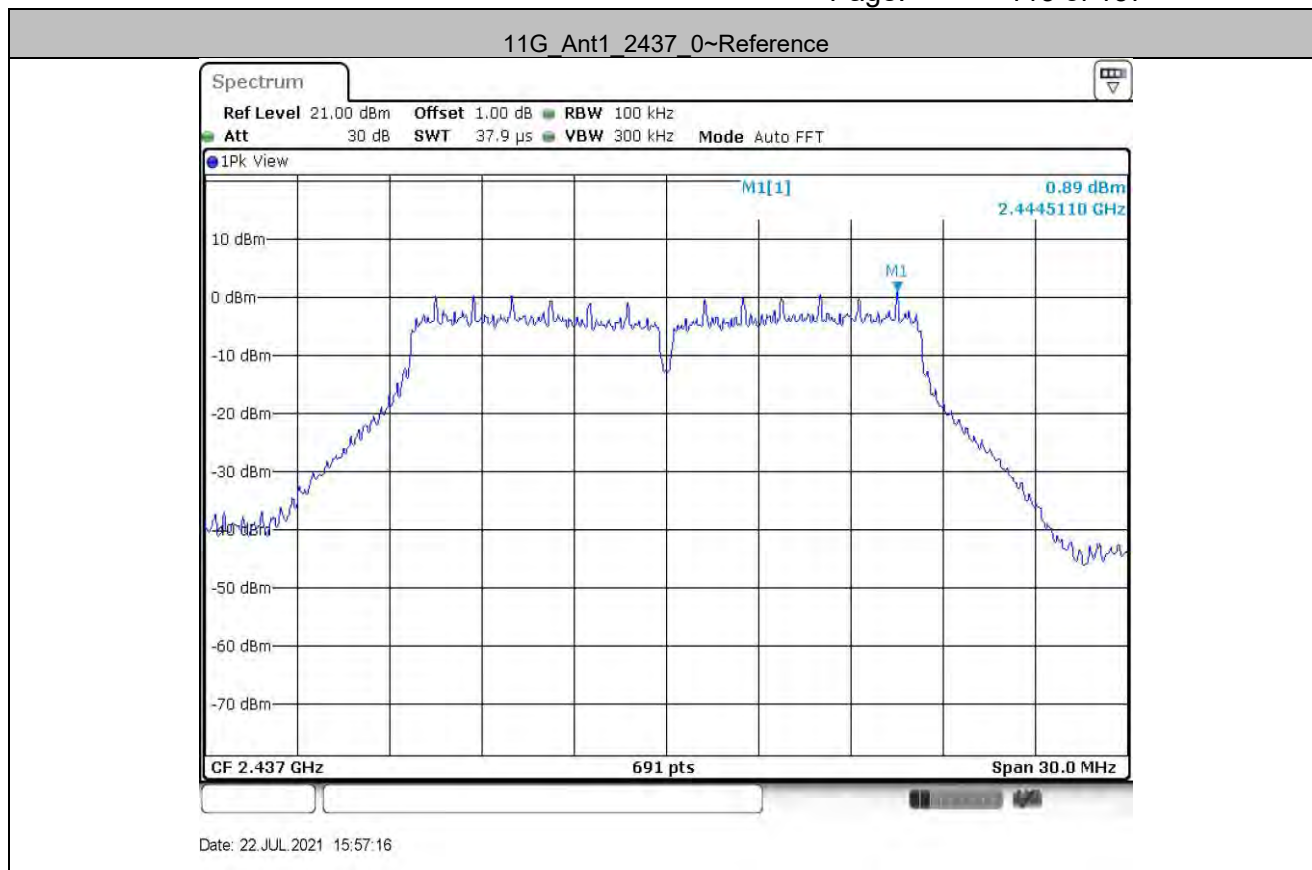


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Page: 113 of 137

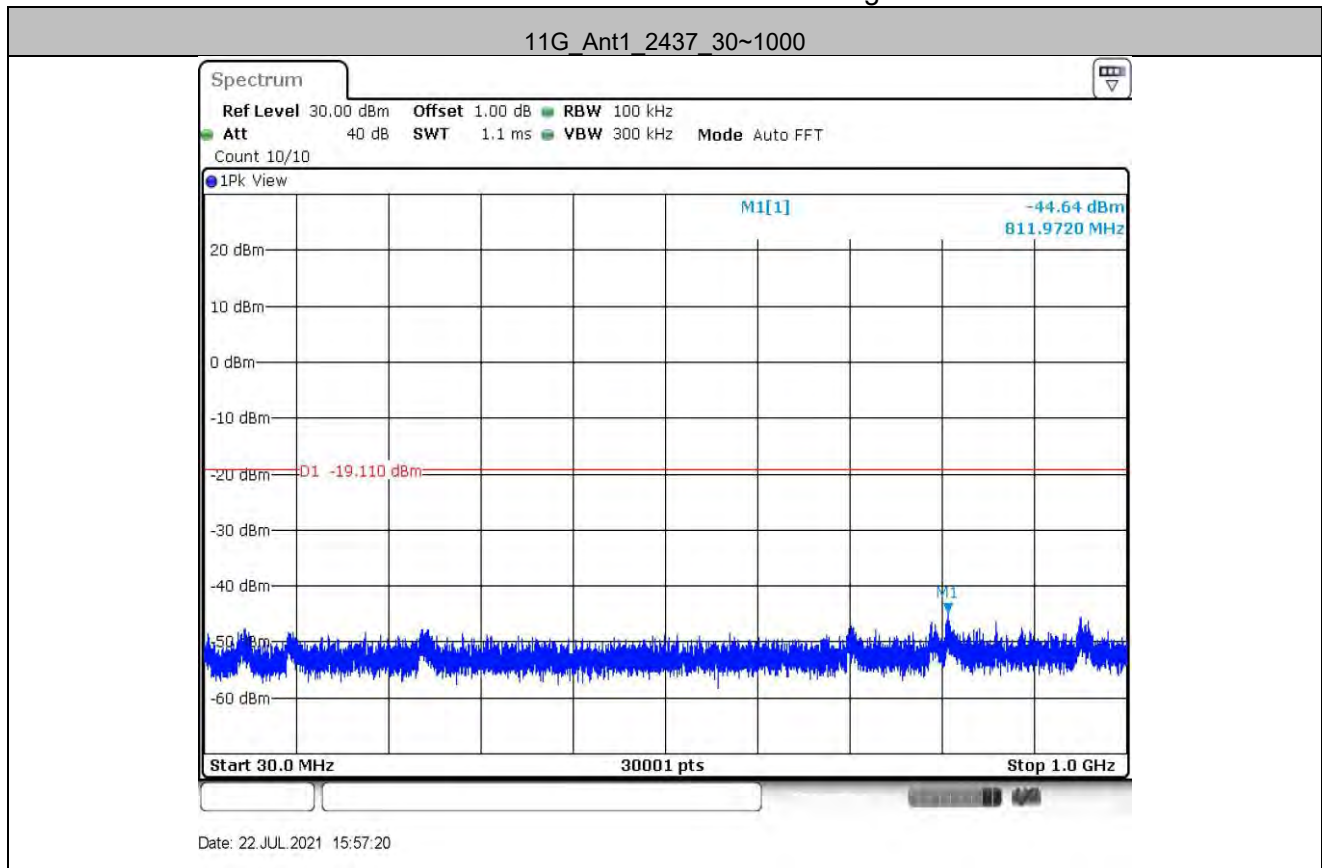


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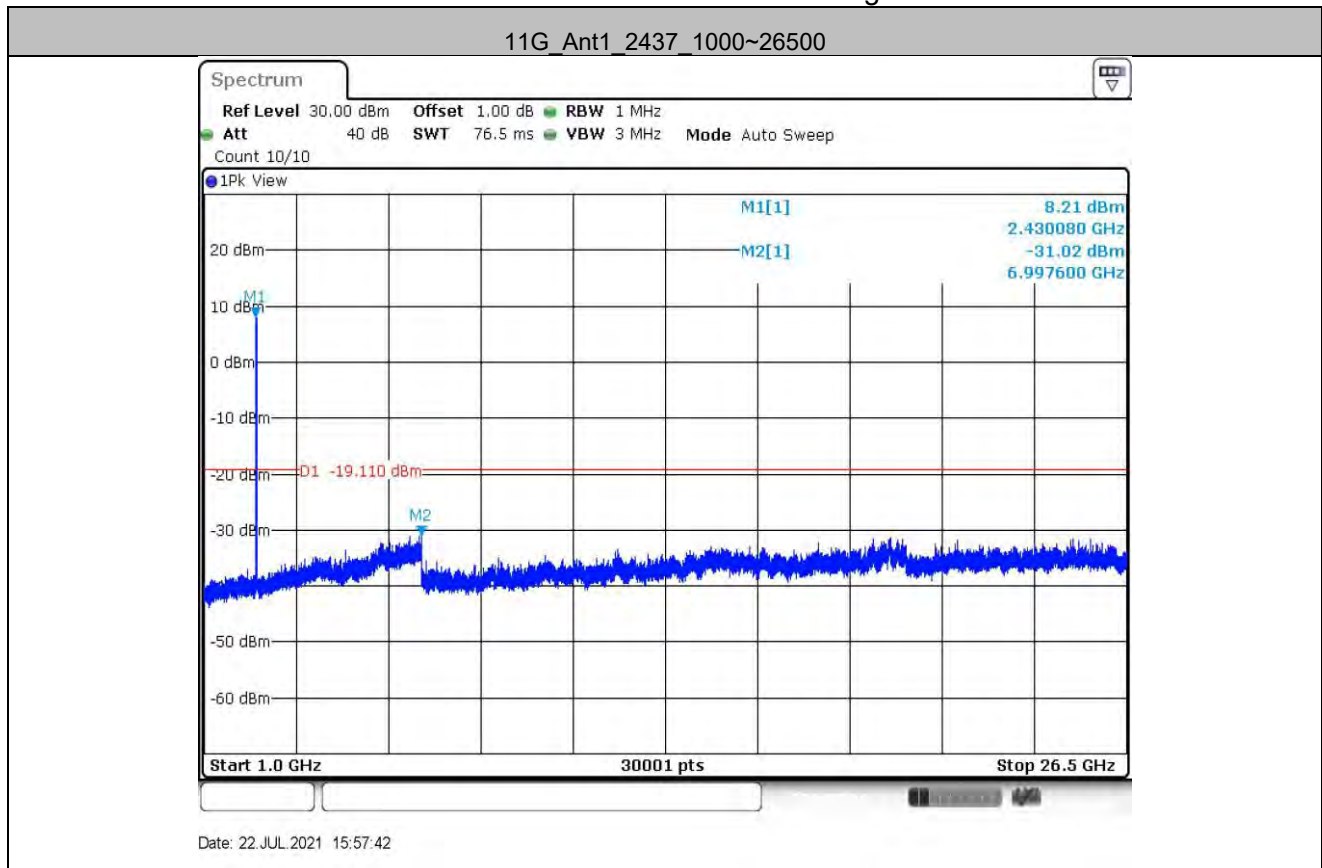
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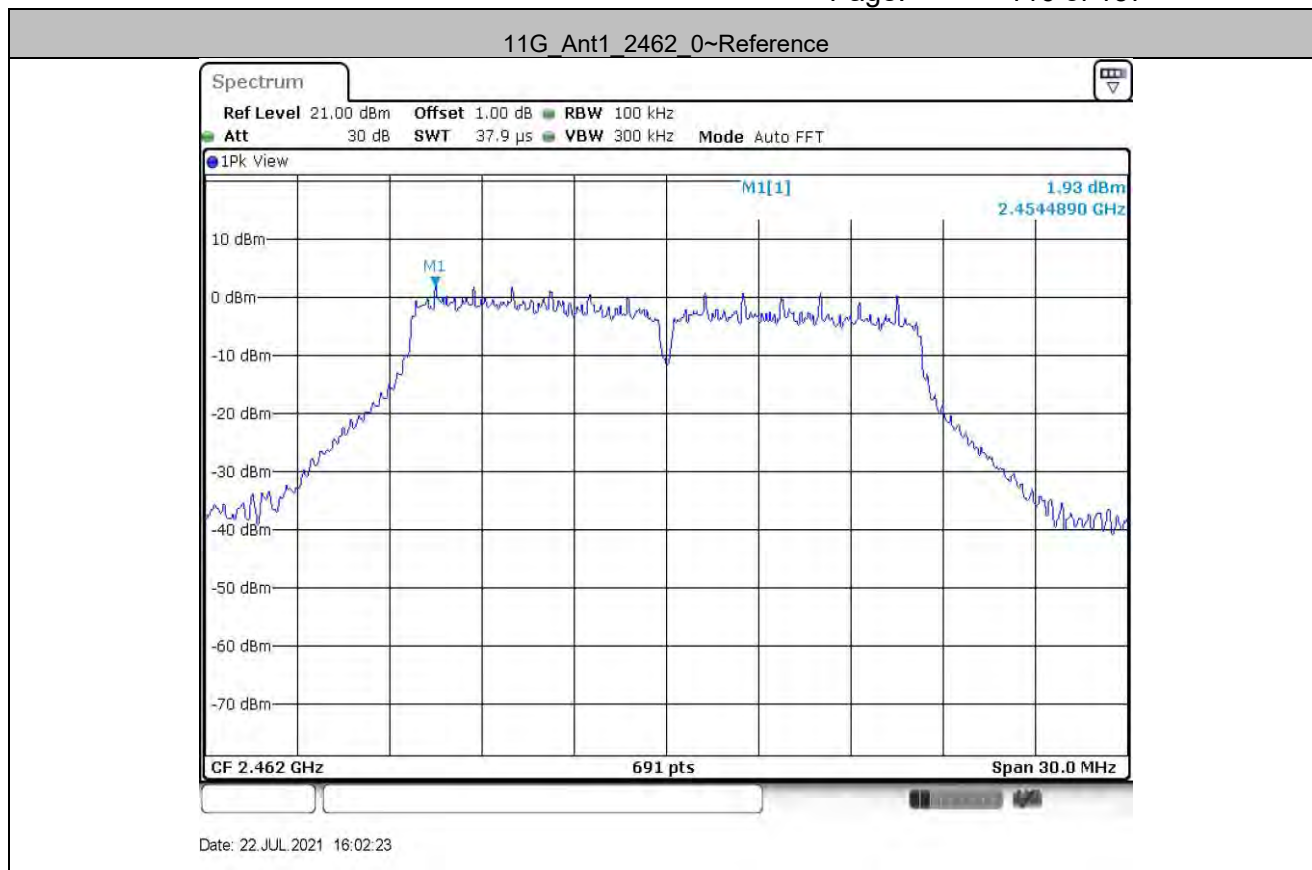
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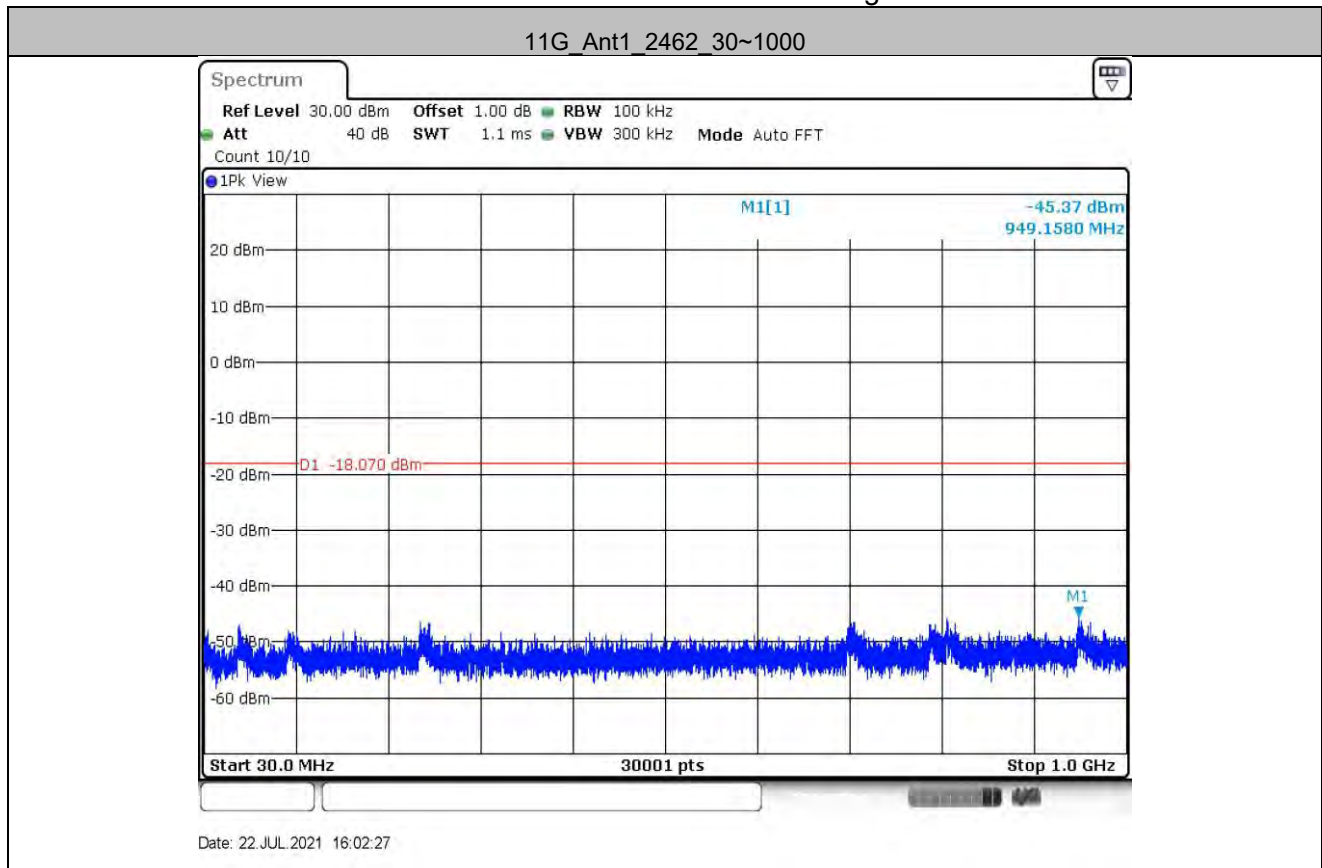
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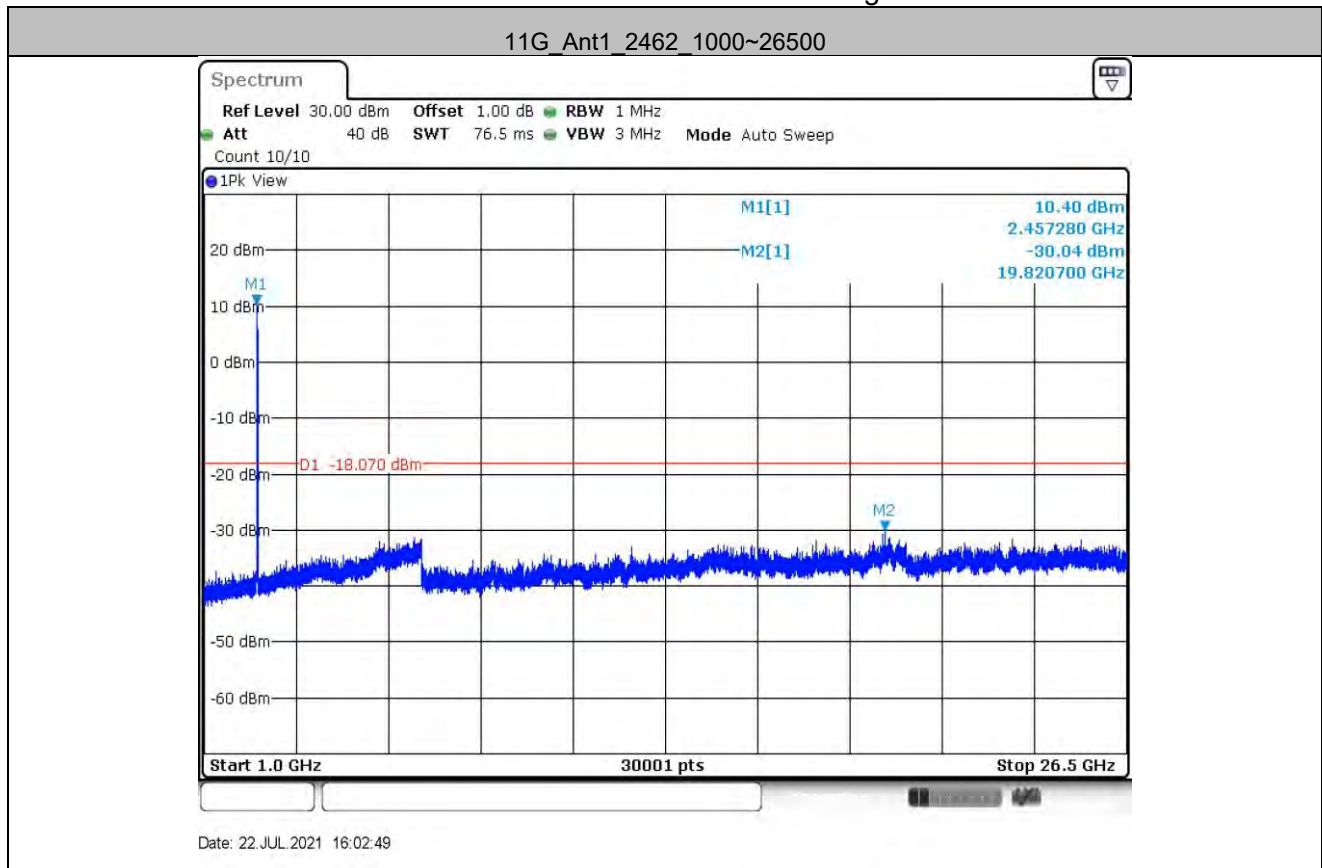
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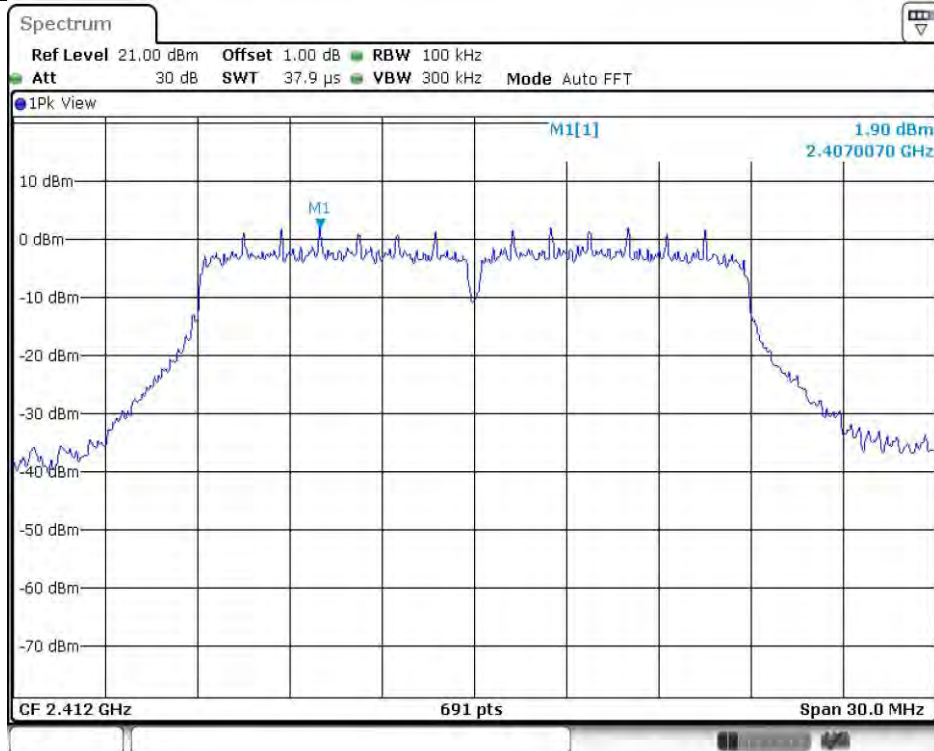
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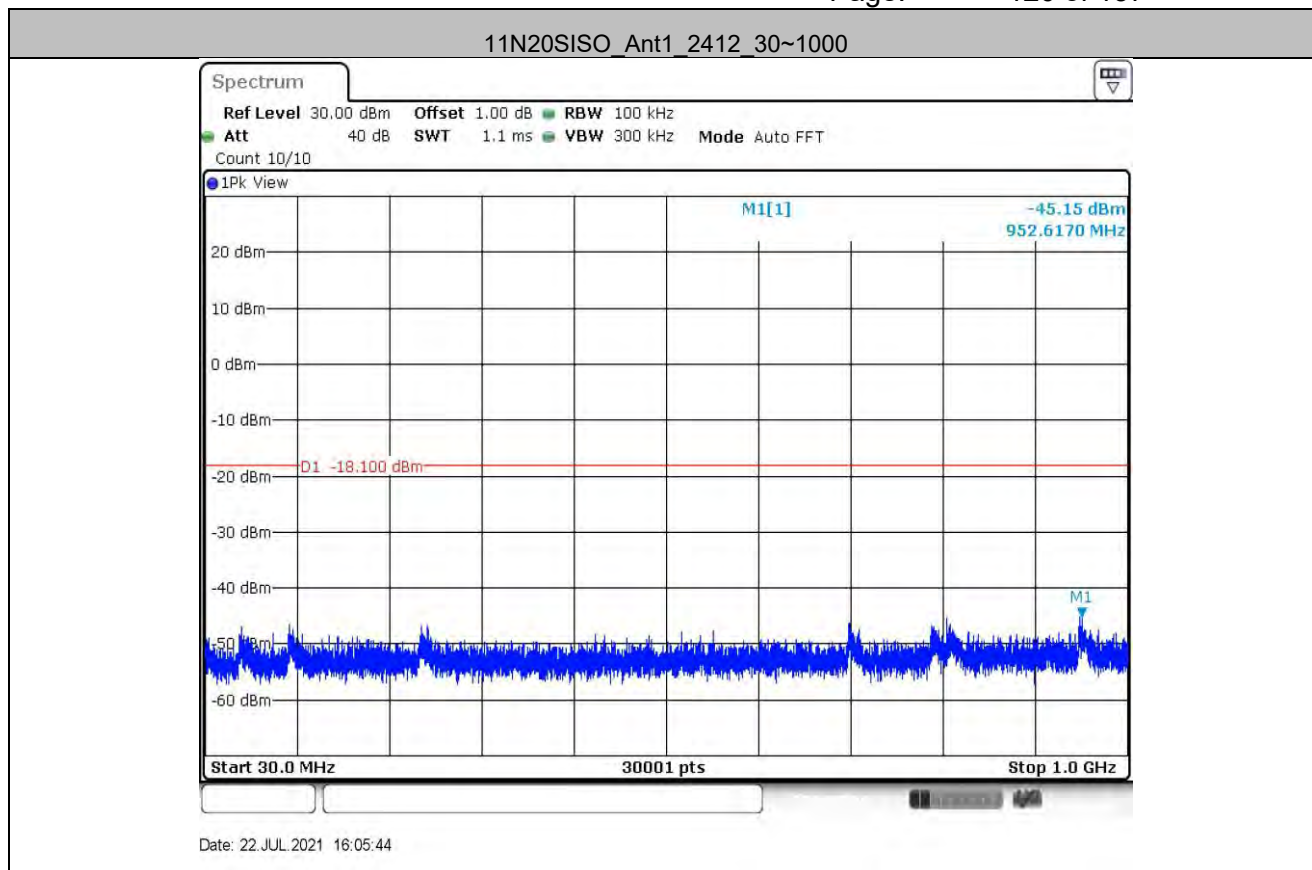
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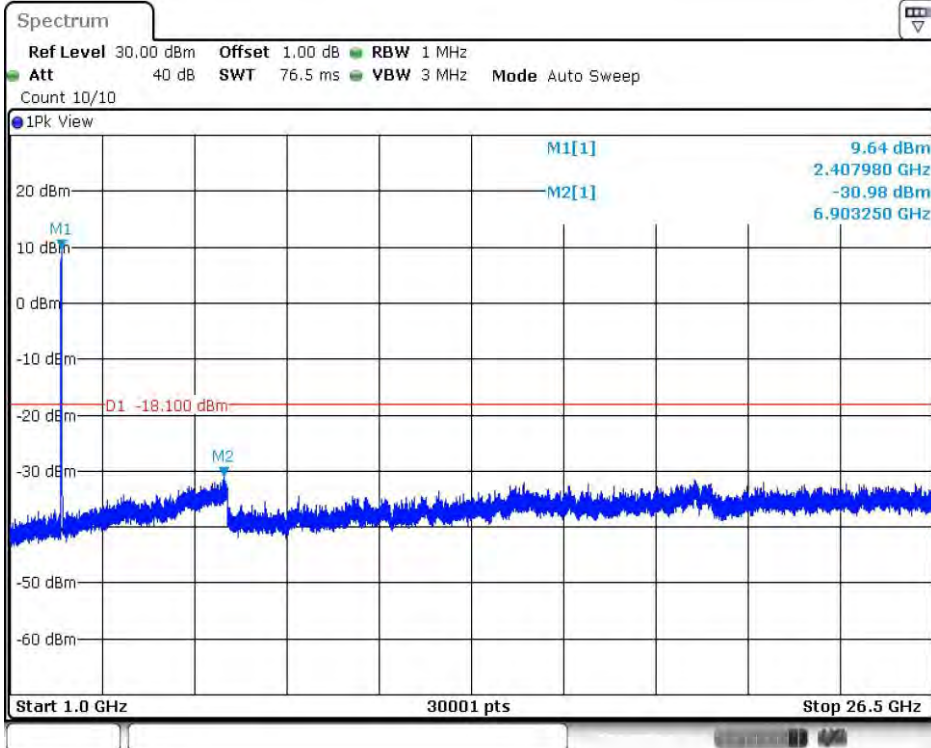
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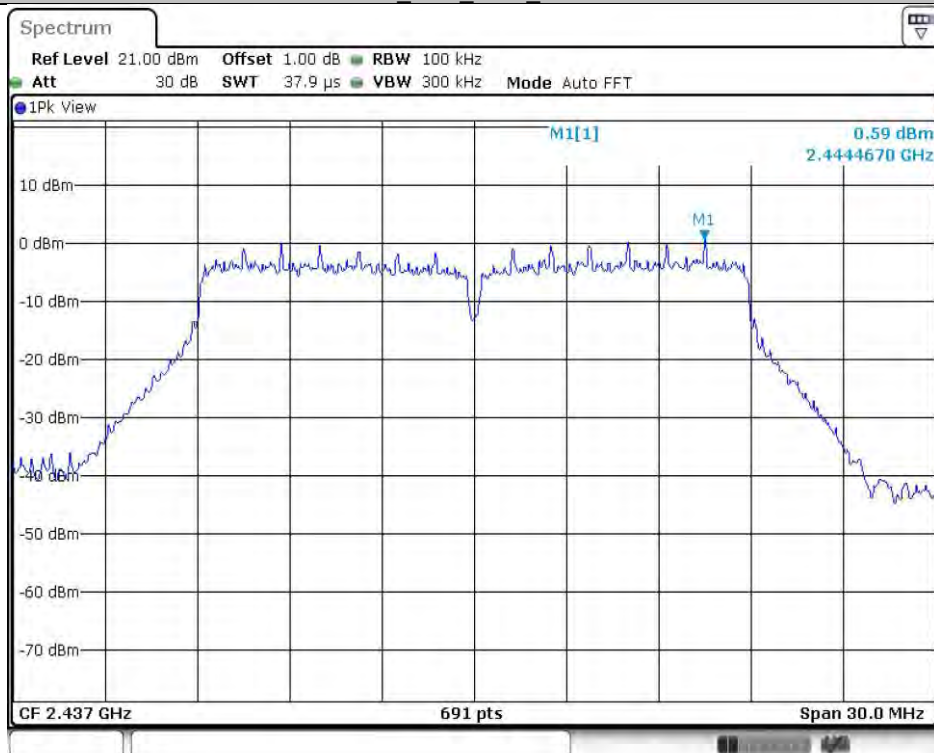
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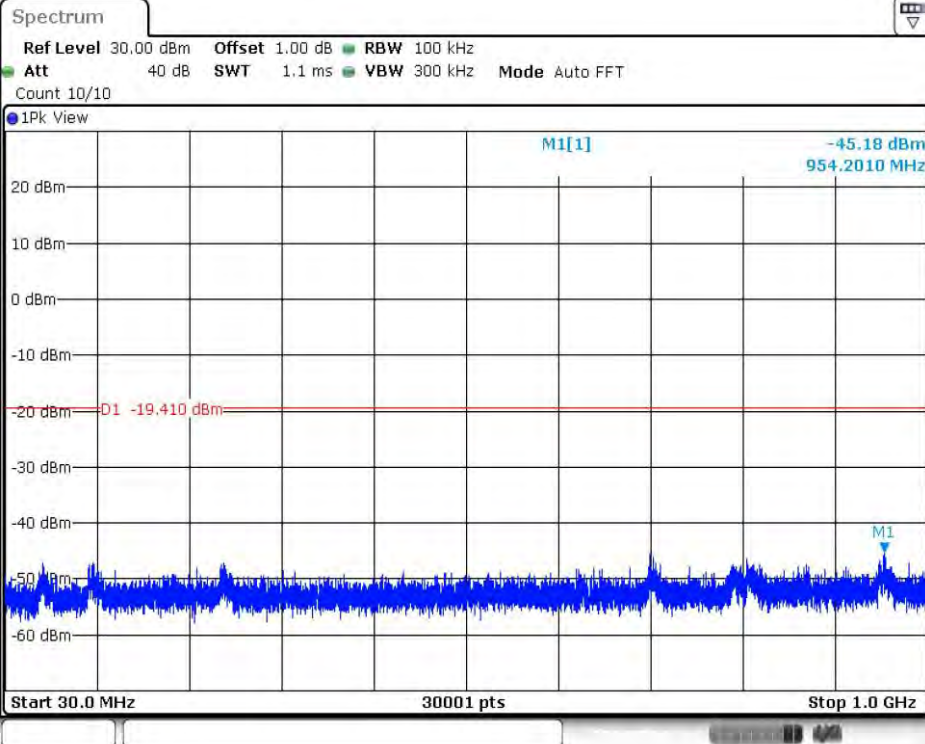


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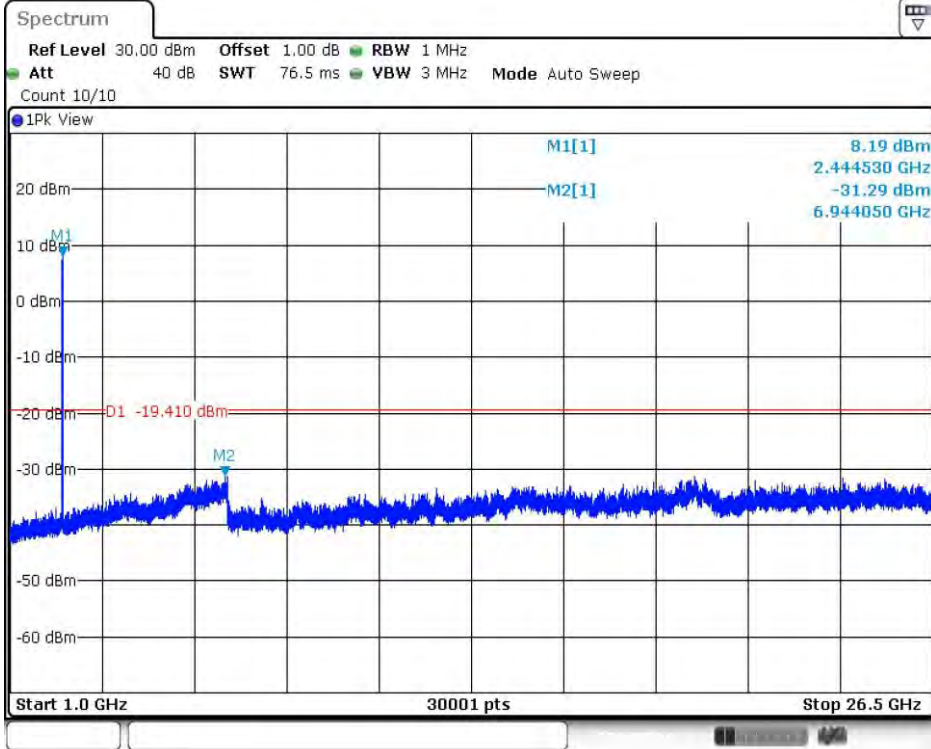
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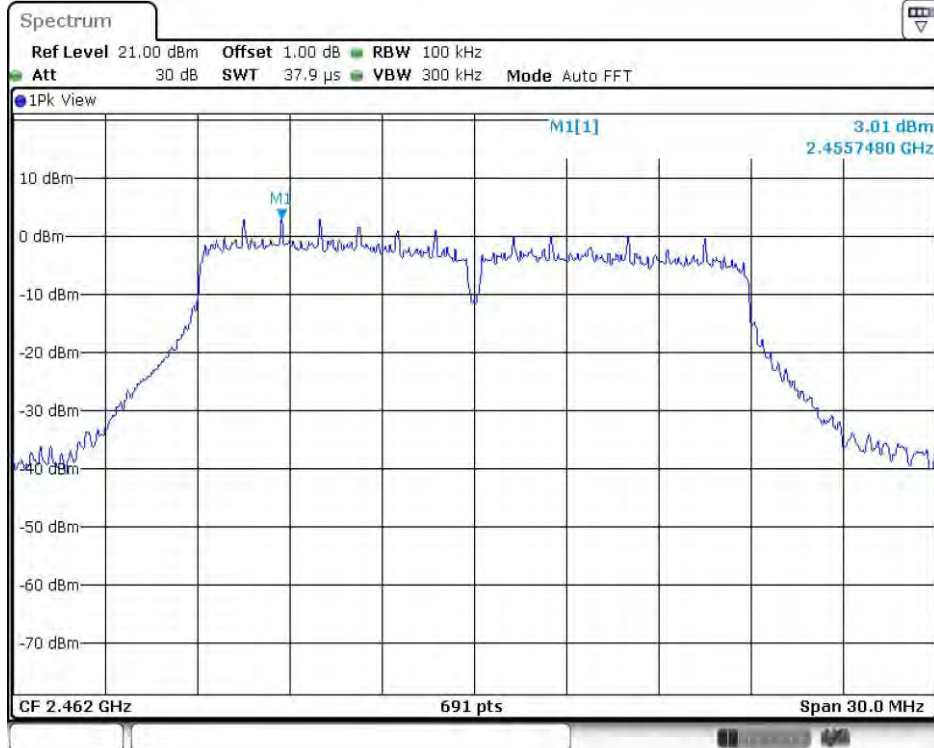
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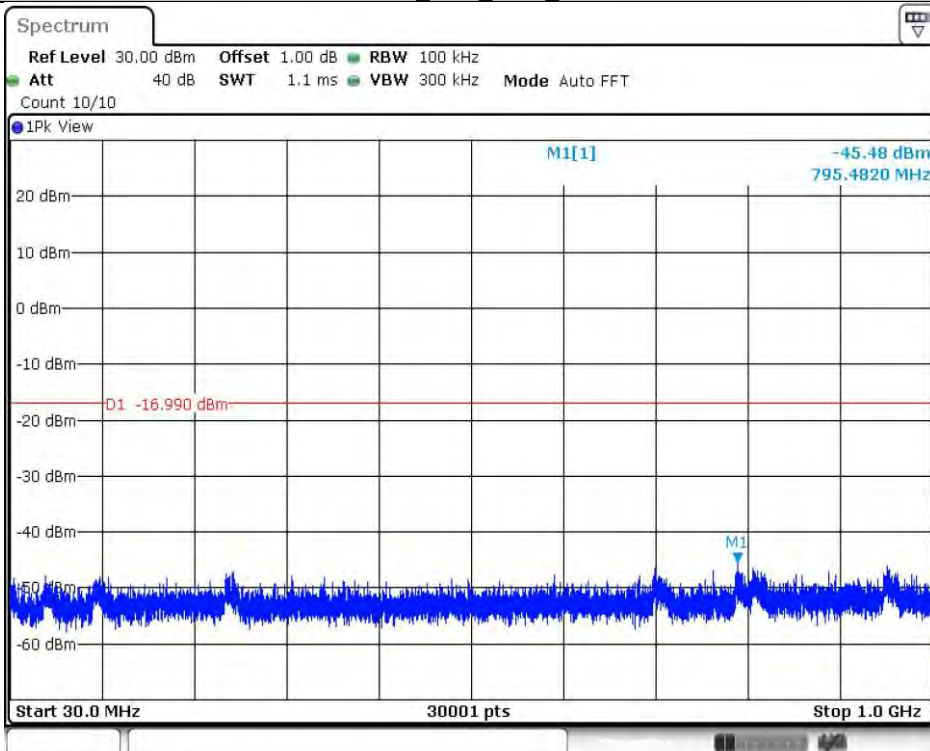
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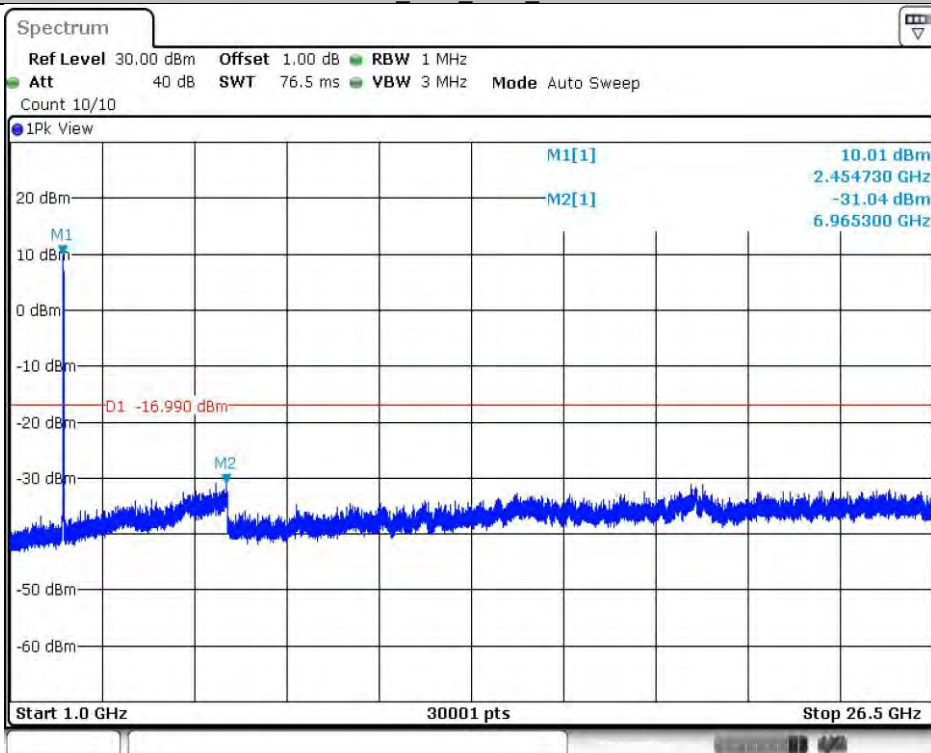
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11N20SISO Ant1 2462 1000~26500



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Duty Cycle Test Result

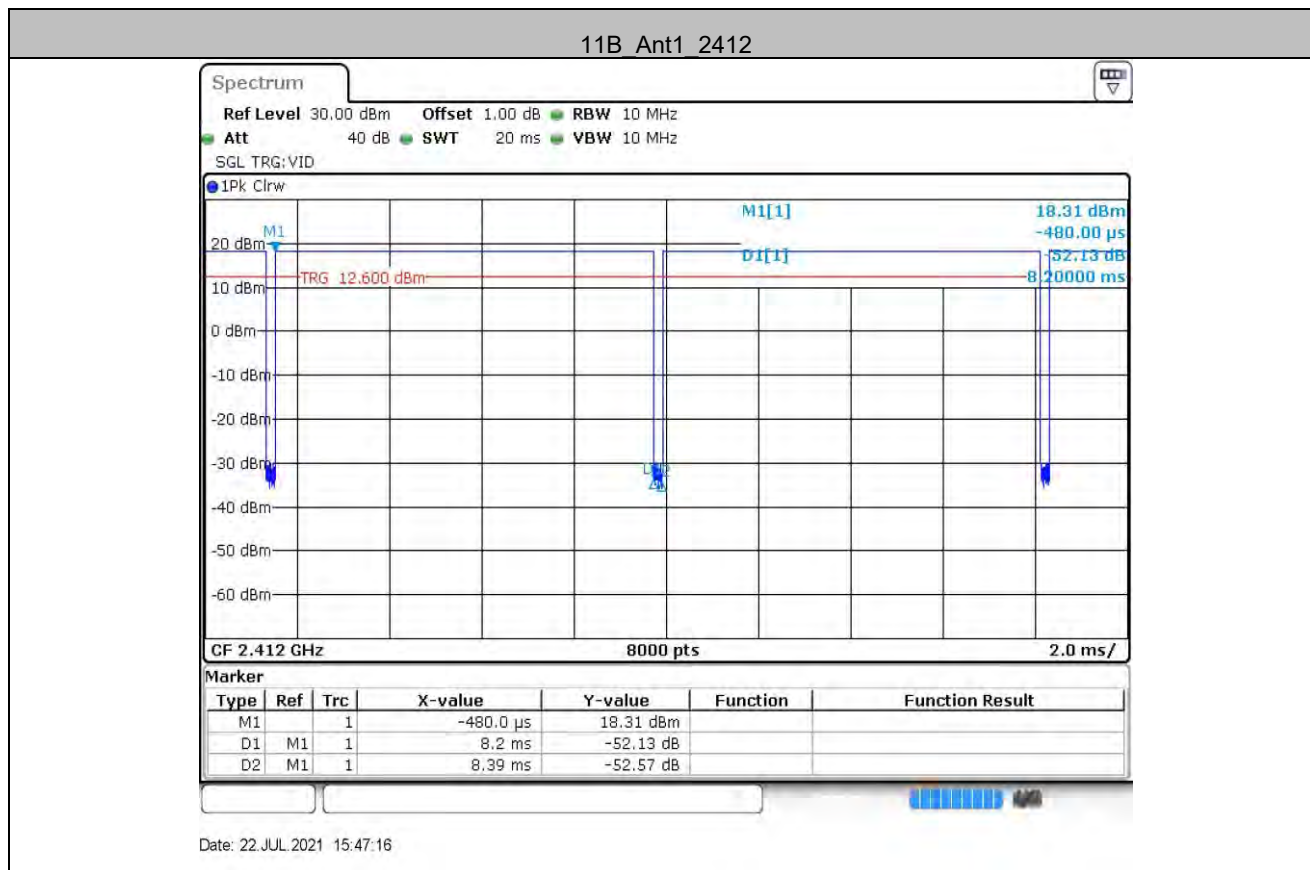
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.20	8.39	97.74	---	PASS
		2437	8.20	8.39	97.74	---	PASS
		2462	8.20	8.40	97.62	---	PASS
11G	Ant1	2412	1.36	1.55	87.74	---	PASS
		2437	1.36	1.55	87.74	---	PASS
		2462	1.35	1.55	87.10	---	PASS
11N20SISO	Ant1	2412	1.27	1.46	86.99	---	PASS
		2437	1.27	1.46	86.99	---	PASS
		2462	1.27	1.46	86.99	---	PASS



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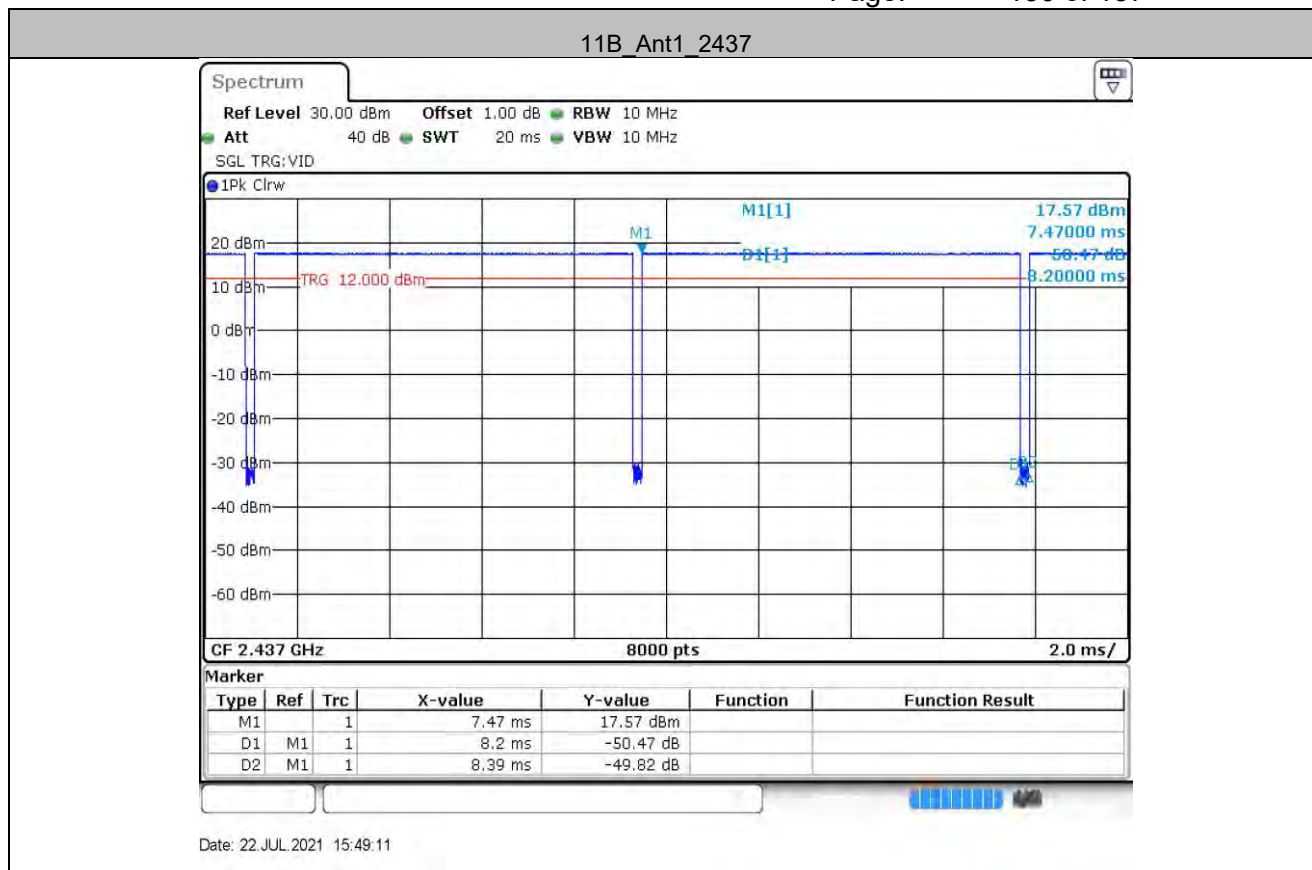
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Test Graphs



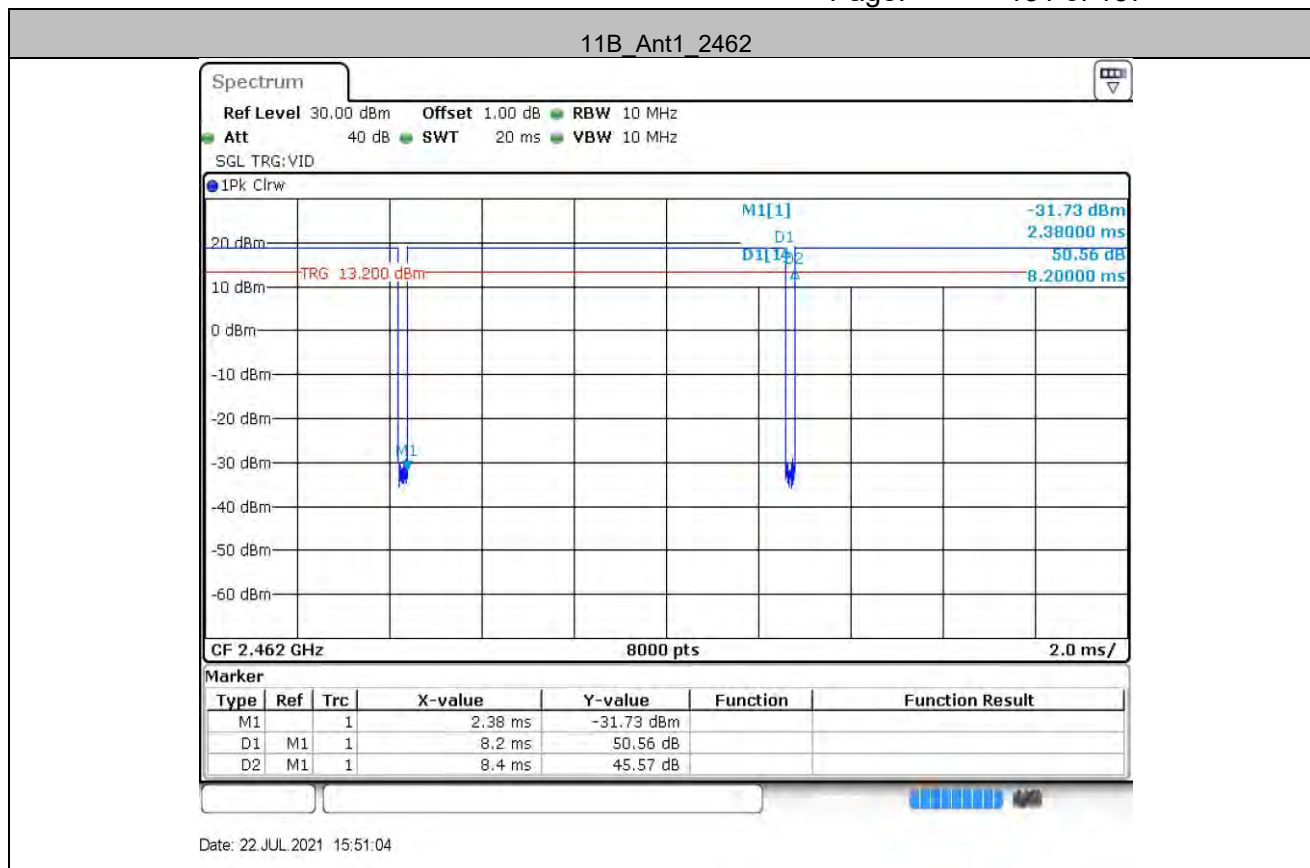
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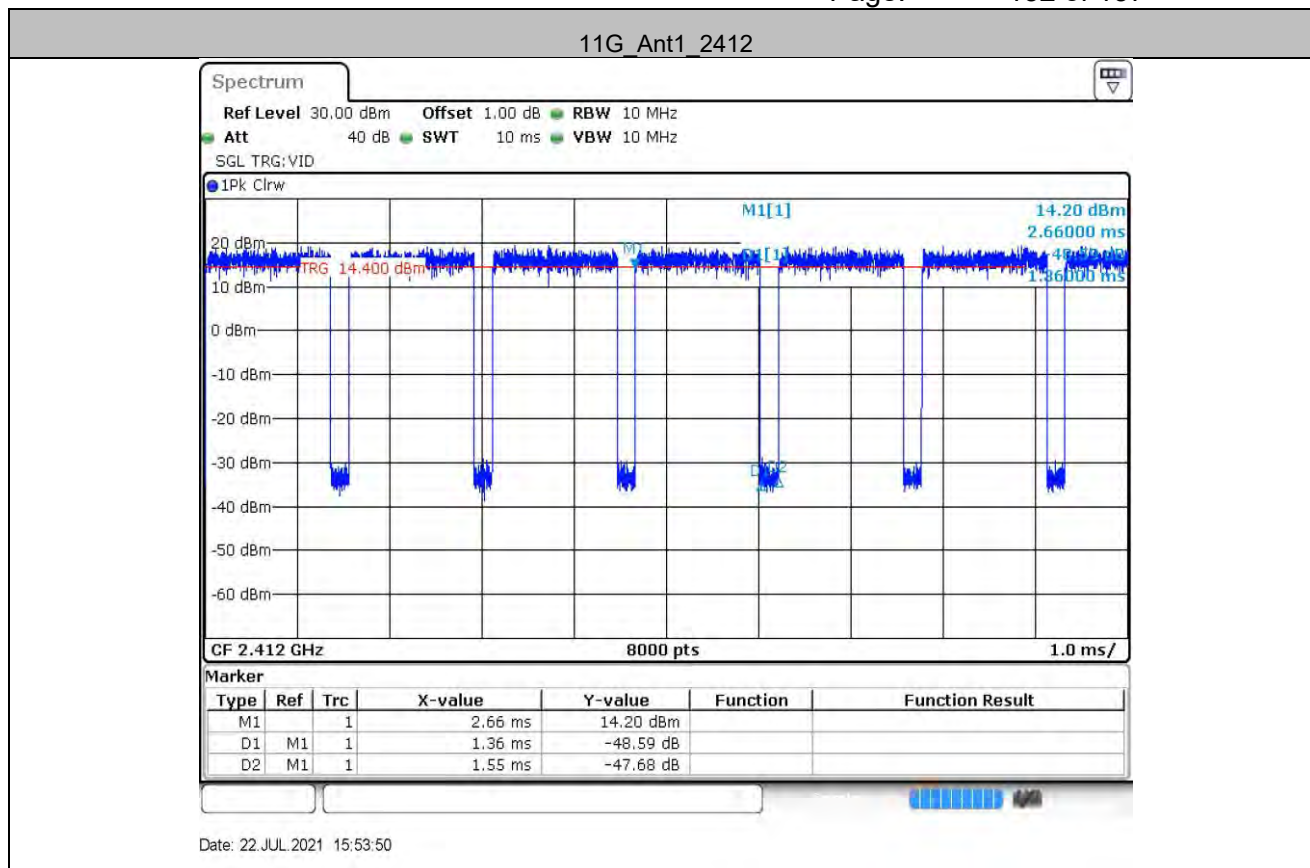
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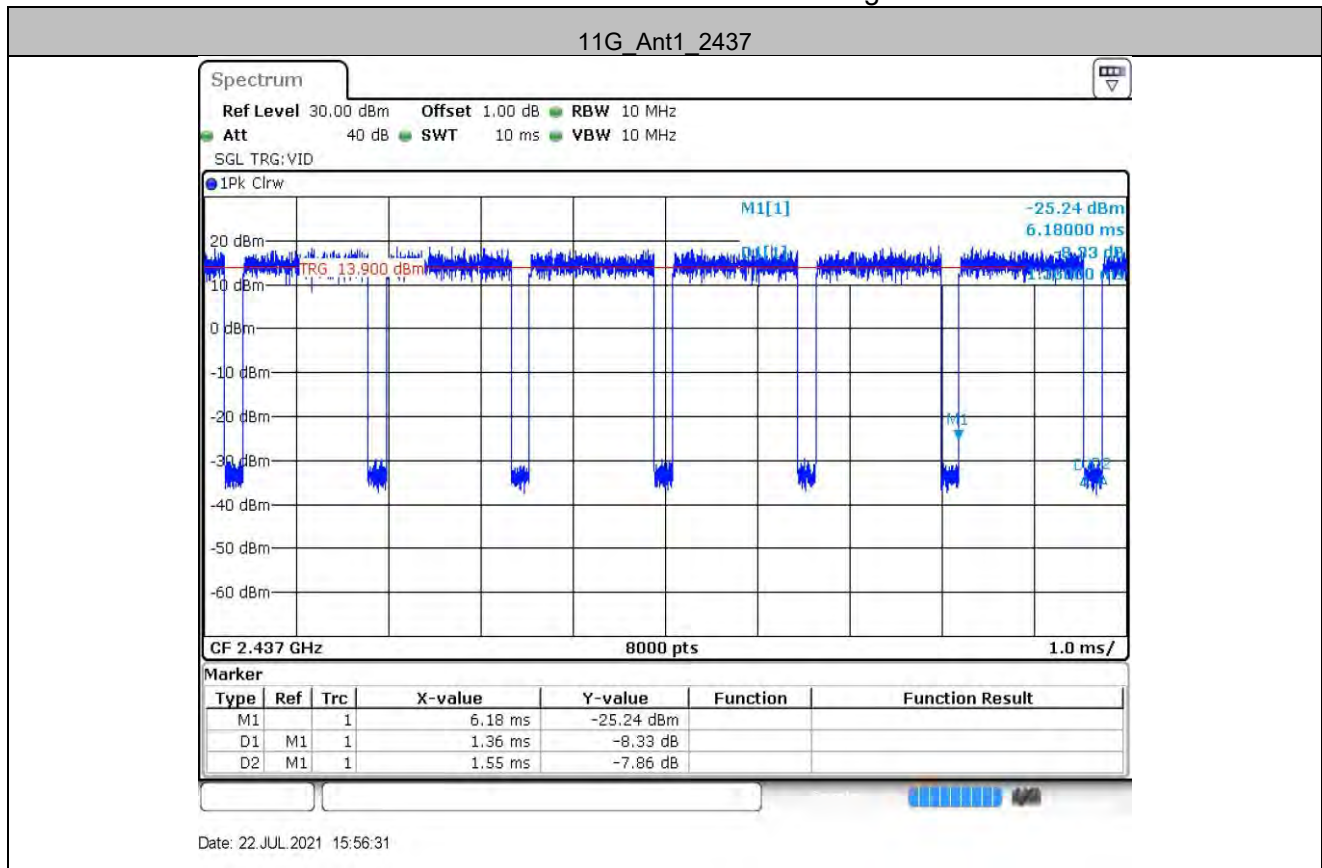
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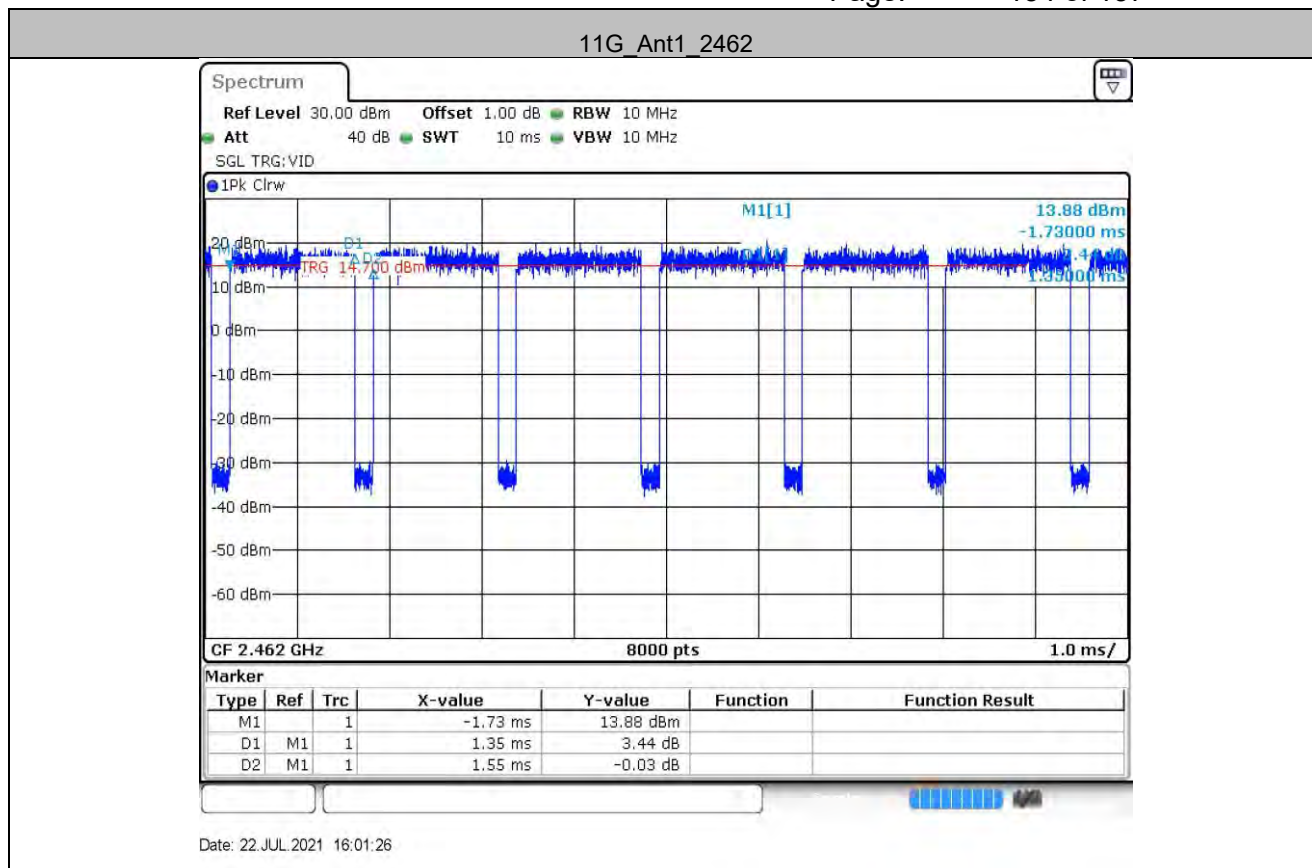
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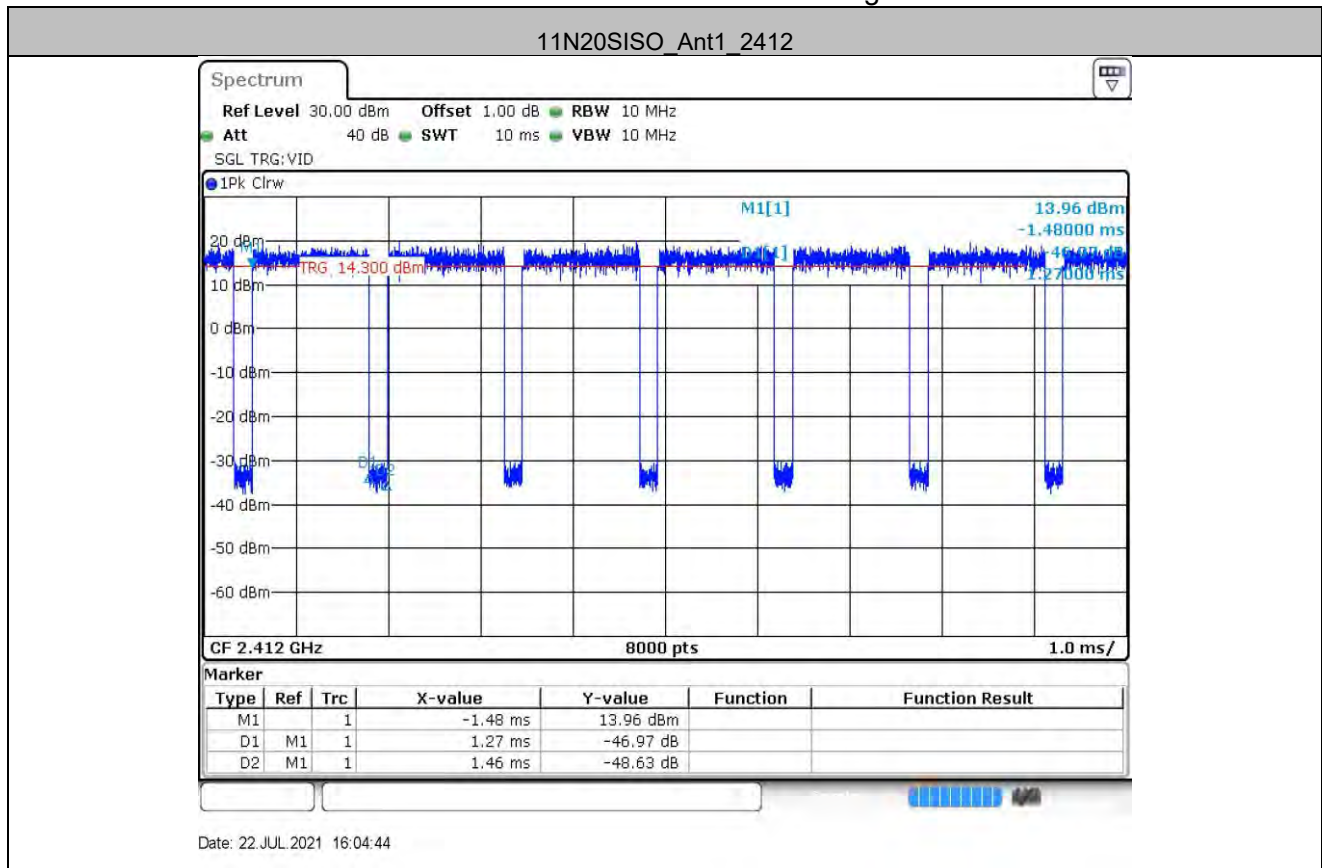
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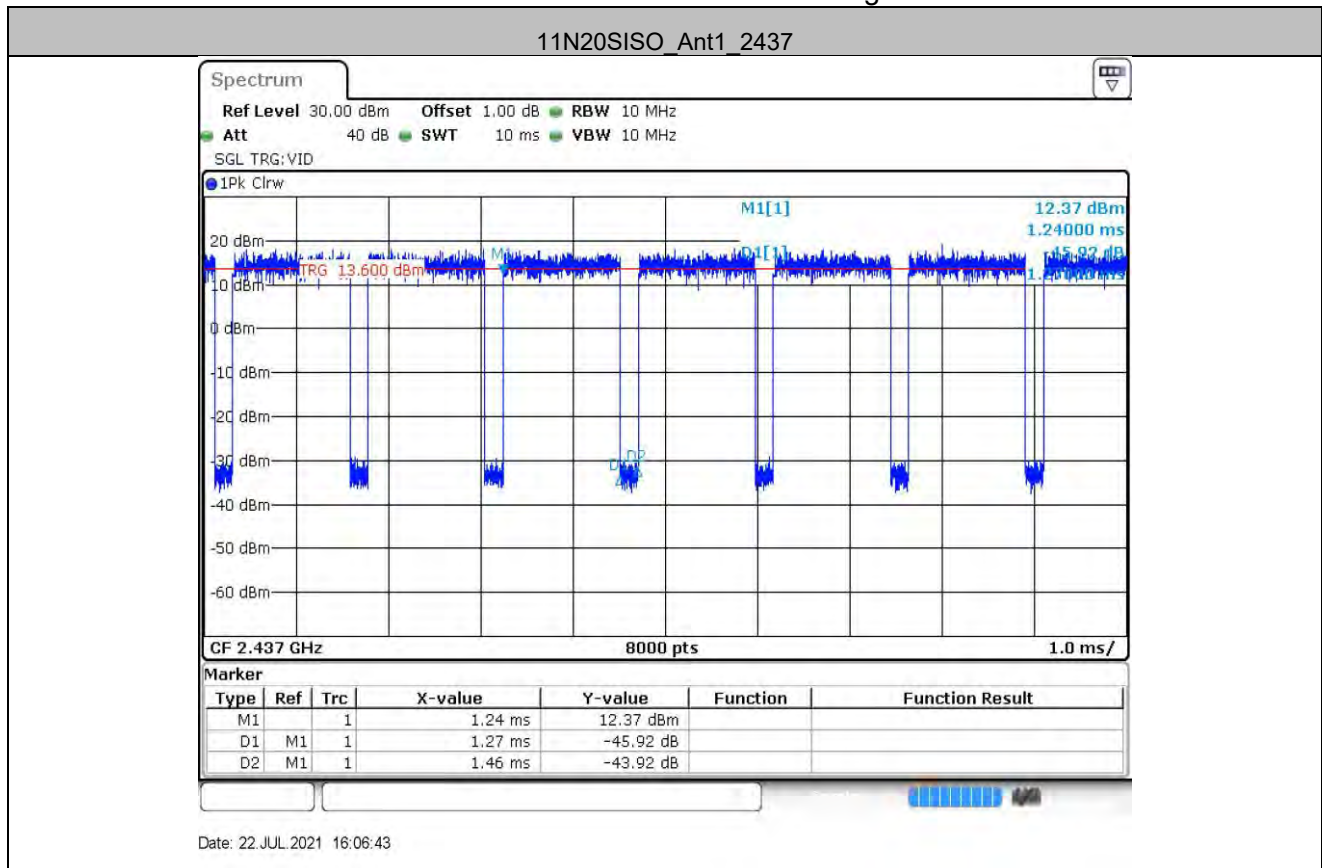
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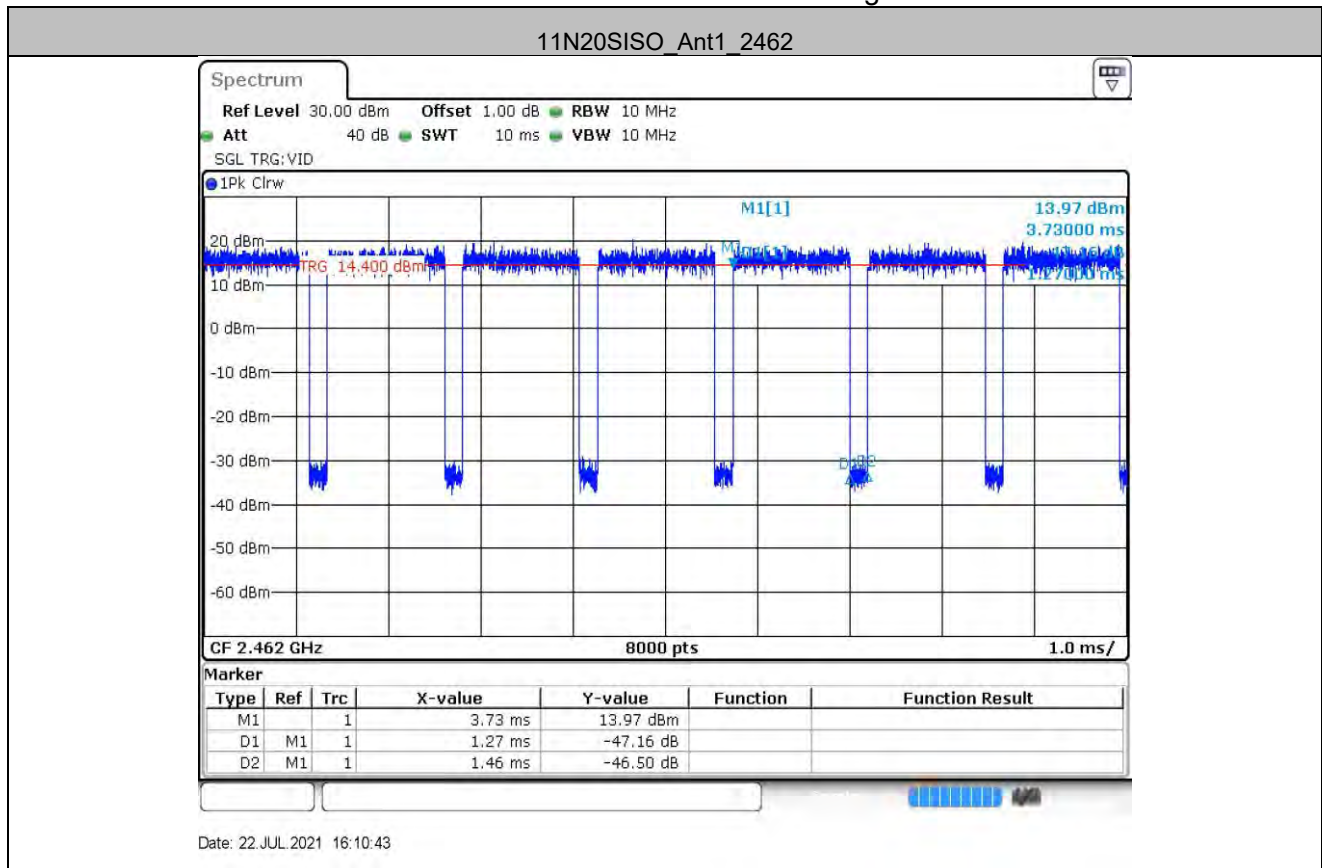
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