

Report No.: SUZR/2021/9002604
 Rev.: 01
 Page: 1 of 126

TEST REPORT

Application No.: ZR/2021/90026
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.: SP502
Trade Mark: SeNse
FCC ID: 2ALZM-SP502
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2021/11/9
Date of Test: 2021/11/10 to 2022/2/15
Date of Issue: 2022/2/16

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:


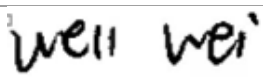
Pantu Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/2/16		Original

Prepared By		 <hr/> (Weller Liu) / Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS



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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

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

3.3 Test Facility

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

<ul style="list-style-type: none"> A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327
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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	SP502
Trade Mark:	SeNse
Hardware Version:	Q6003_V1.0
Software Version:	SP502_01.01.04
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 = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g: OFDM IEEE for 802.11n(HT20): OFDM 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 type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input type="checkbox"/> MIMO (for 802.11b/g/n): Tx & Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client 2.96dBi;
RF Cable*:	<input checked="" type="checkbox"/> Provided by client 1dB
Remark:	<p>*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p>



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				
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 802.11 b/g/n (HT20)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTNV	-20	3.8
HTNV	50	3.8

Remark:
 NV: Normal Voltage
 NT: Normal Temperature
 LT: Low Extreme Test Temperature
 HT: High Extreme Test Temperature

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>	
The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 2.96dBi.	



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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:	<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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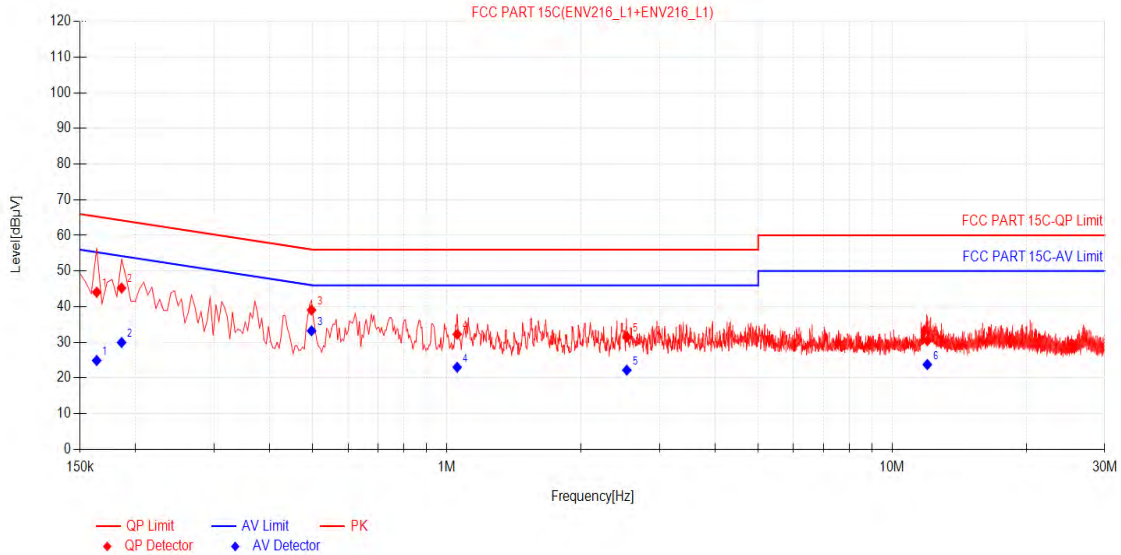
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Measurement Data

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.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	44.08	65.28	21.20	24.91	55.28	30.37	PASS
2	0.1860	10.77	45.24	64.21	18.97	29.97	54.21	24.24	PASS
3	0.4965	10.62	39.06	56.06	17.00	33.24	46.06	12.82	PASS
4	1.0545	10.57	32.28	56.00	23.72	23.03	46.00	22.97	PASS
5	2.5350	10.66	31.50	56.00	24.50	22.20	46.00	23.80	PASS
6	11.9895	10.59	30.49	60.00	29.51	23.78	50.00	26.22	PASS

Remark:

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

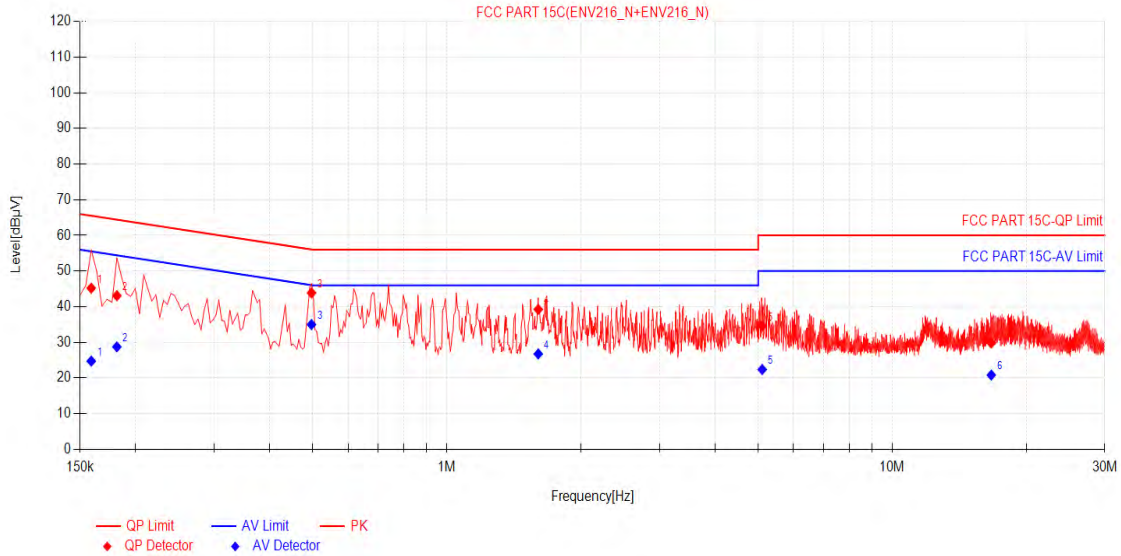


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Neutral Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	10.72	45.21	65.52	20.31	24.75	55.52	30.77	PASS
2	0.1815	10.70	43.09	64.42	21.33	28.74	54.42	25.68	PASS
3	0.4965	10.81	43.88	56.06	12.18	34.99	46.06	11.07	PASS
4	1.6035	10.77	39.24	56.00	16.76	26.76	46.00	19.24	PASS
5	5.1045	10.63	34.61	60.00	25.39	22.39	50.00	27.61	PASS
6	16.6875	10.54	29.83	60.00	30.17	20.83	50.00	29.17	PASS

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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Rev.: 01

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4.3 Duty Cycle

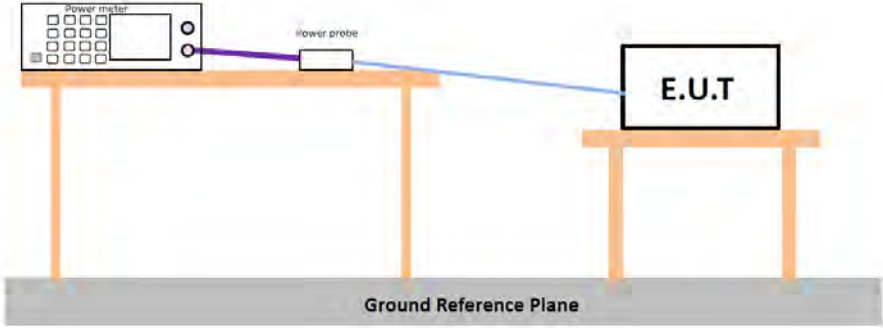
The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
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	



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	



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	



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	



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	



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 (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	3MHz	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:

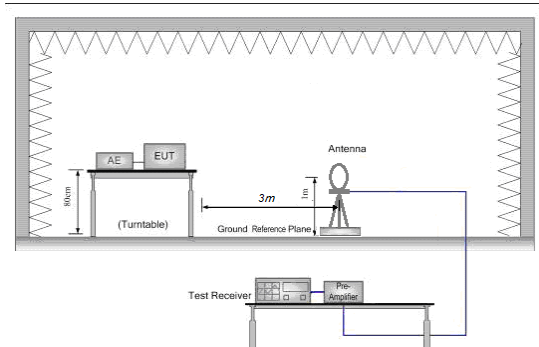


Figure 1. Below 30MHz

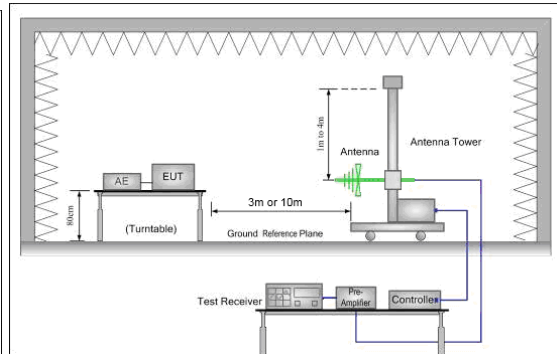


Figure 2. 30MHz to 1GHz

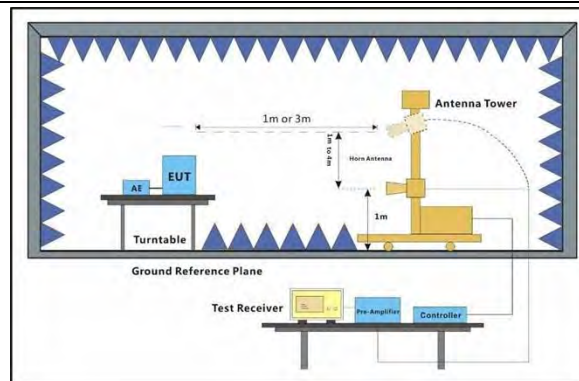


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz(9KHz start), 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(10th harmonic), 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(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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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



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	<p>would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11b;</p> <p>6Mbps of rate is the worst case of 802.11g;</p> <p>6.5Mbps of rate is the worst case of 802.11n(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11n(HT40);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p> <p>The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>The disturbance above 18GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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 (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:

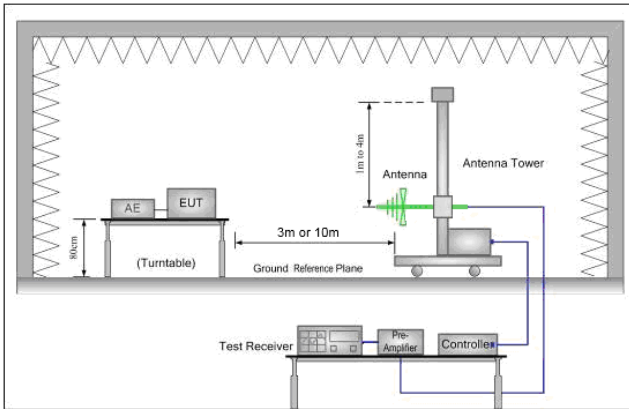


Figure 1. 30MHz to 1GHz

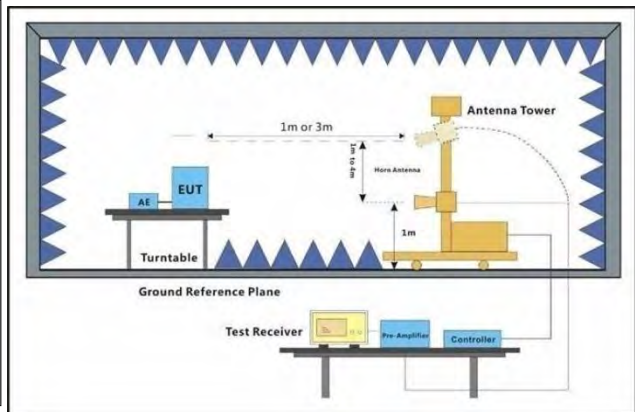


Figure 2. Above 1 GHz



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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>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>



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	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
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25x 10 ⁻⁸
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 ⁻⁸
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 3.5.51	SUWI-02-09-09	NCR	NCR
EPM Series Power Meter	Aglient	E4419B	SUWI-03-22-01	2021/6/11	2022/6/10
E-SERIES AVG POWER SENSOR	Aglient	E9301A	SUWI-03-23-01	2021/6/11	2022/6/10

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19



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RSE Test Equipment 996-01					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	9.04	2407.48	2416.52	0.5	PASS
		2437	8.56	2432.96	2441.52	0.5	PASS
		2462	9.04	2457.00	2466.04	0.5	PASS
11g	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
		2437	16.32	2428.84	2445.16	0.5	PASS
		2462	16.36	2453.80	2470.16	0.5	PASS
11n20SISO	Ant1	2412	17.56	2403.20	2420.76	0.5	PASS
		2437	17.56	2428.24	2445.80	0.5	PASS
		2462	17.56	2453.20	2470.76	0.5	PASS
11n40SISO	Ant1	2422	35.52	2404.08	2439.60	0.5	PASS
		2437	35.20	2419.40	2454.60	0.5	PASS
		2452	35.12	2434.48	2469.60	0.5	PASS



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Test Graphs

11b Ant1 2412



08:44:56 26.01.2022

11b Ant1 2437



08:49:29 26.01.2022



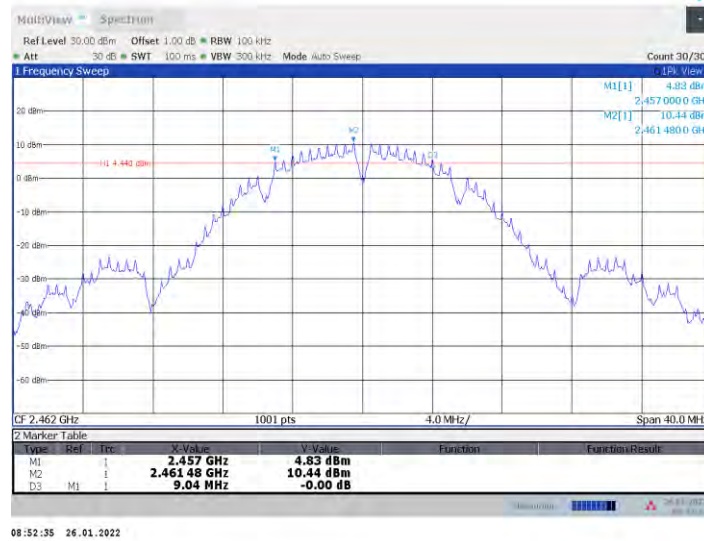
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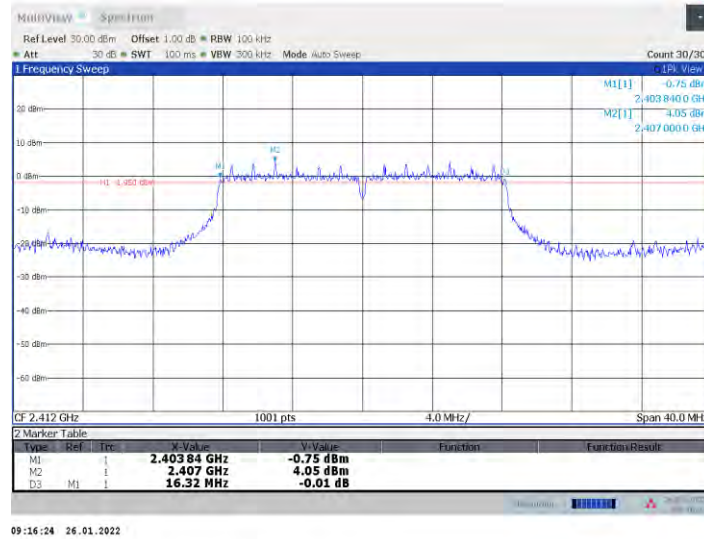
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11b Ant1 2462



11g Ant1 2412



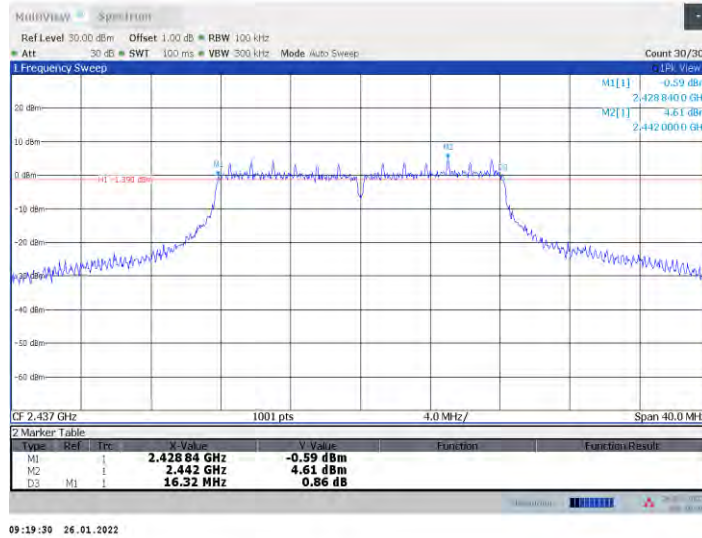
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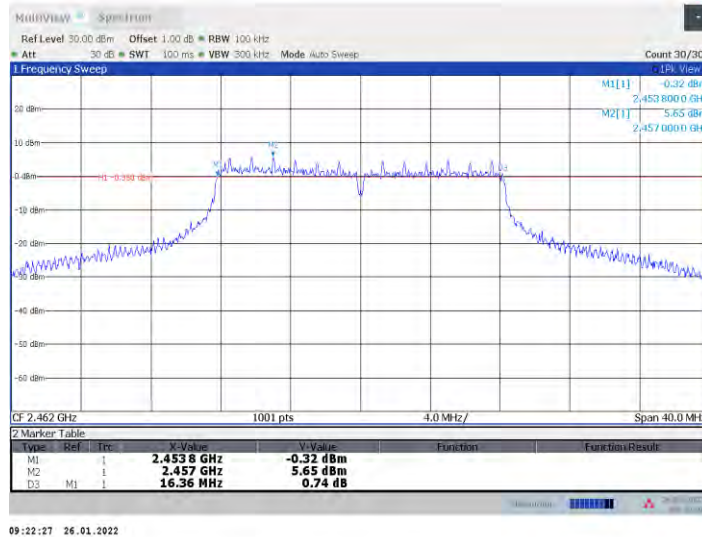
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11g Ant1 2437



09:19:30 26.01.2022

11g Ant1 2462



09:22:27 26.01.2022



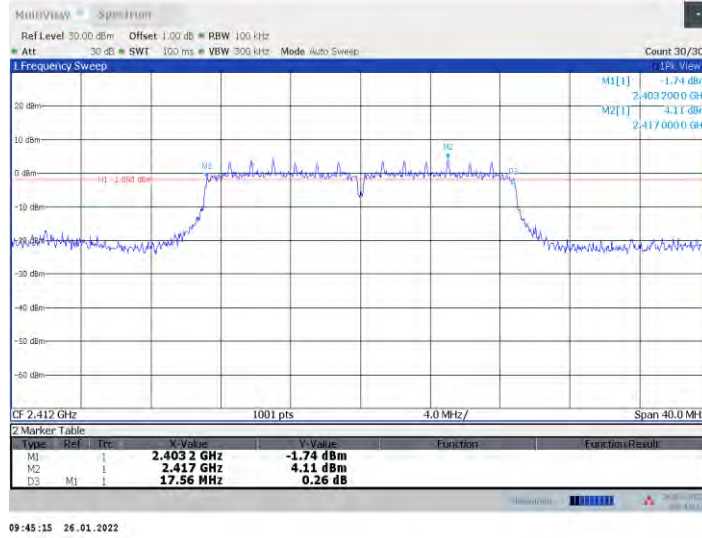
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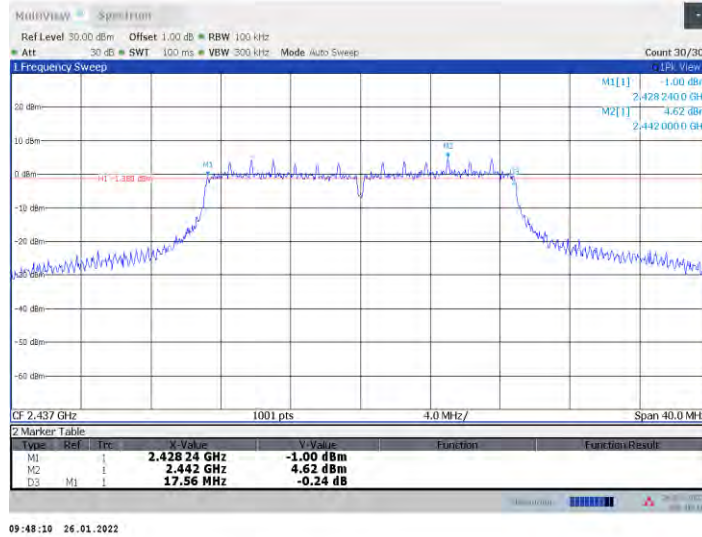
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

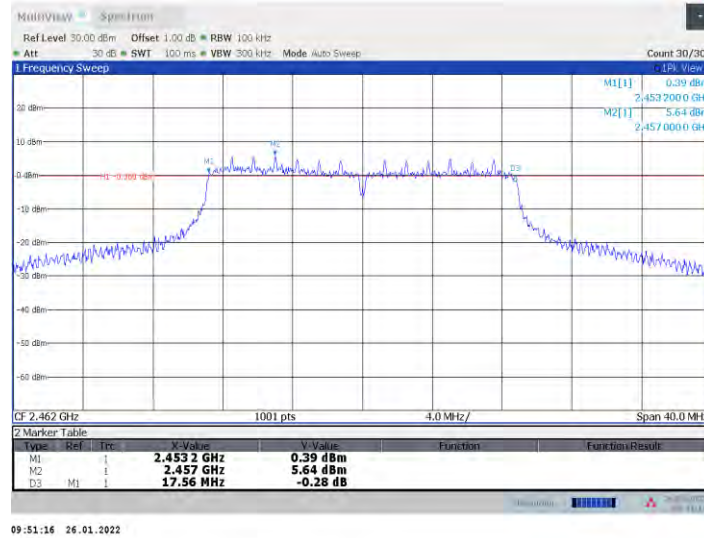


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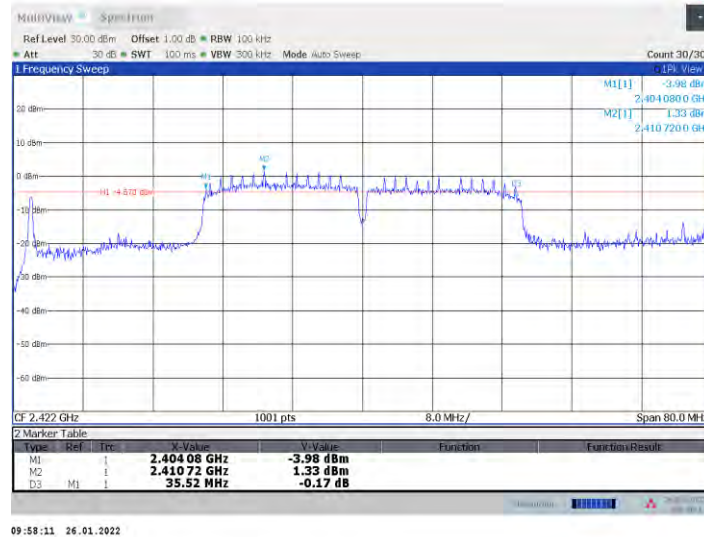
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11n20SISO_Ant1_2462



11n40SISO_Ant1_2422



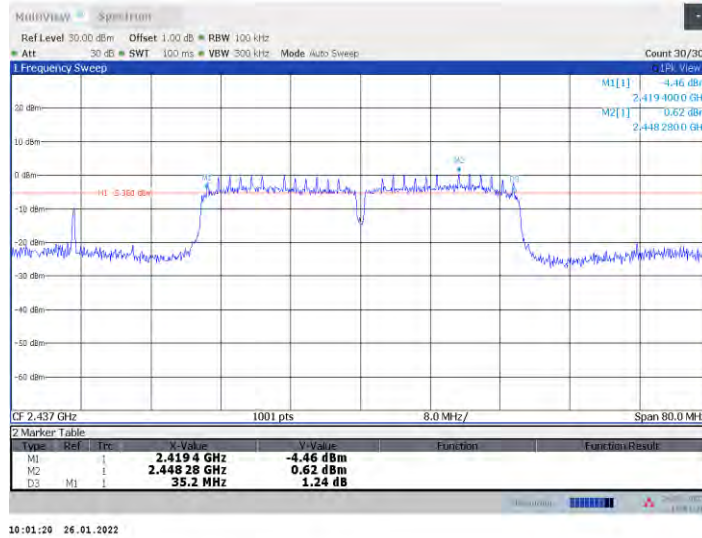
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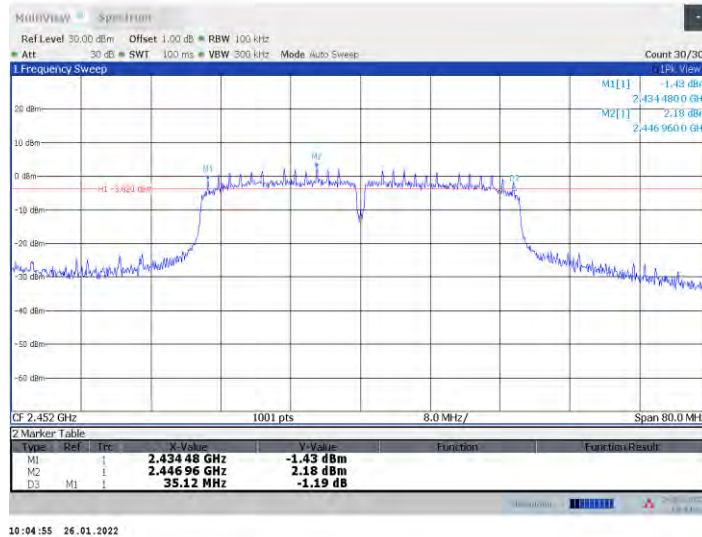
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	13.870	2405.135	2419.005	---	---
		2437	13.713	2430.270	2443.983	---	---
		2462	14.034	2454.852	2468.886	---	---
11g	Ant1	2412	18.195	2402.760	2420.955	---	---
		2437	17.577	2428.232	2445.809	---	---
		2462	17.693	2453.017	2470.710	---	---
11n20SISO	Ant1	2412	18.971	2402.373	2421.344	---	---
		2437	18.484	2427.788	2446.272	---	---
		2462	18.573	2452.601	2471.174	---	---
11n40SISO	Ant1	2422	36.453	2403.622	2440.075	---	---
		2437	36.433	2418.691	2455.125	---	---
		2452	36.270	2433.749	2470.018	---	---



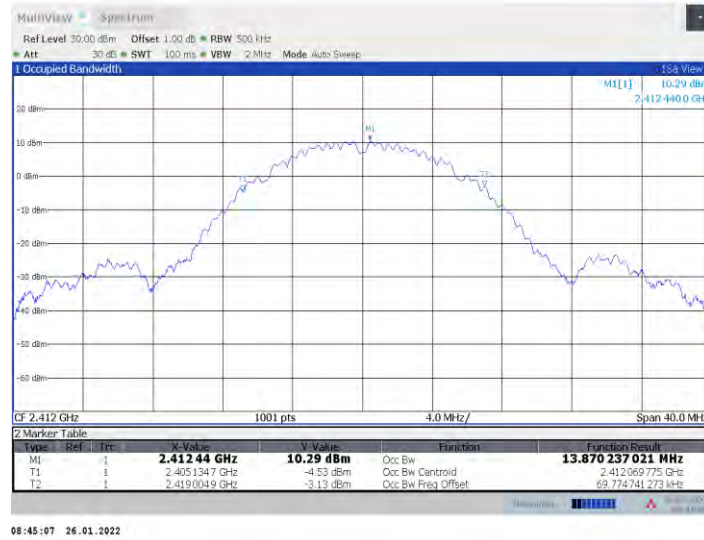
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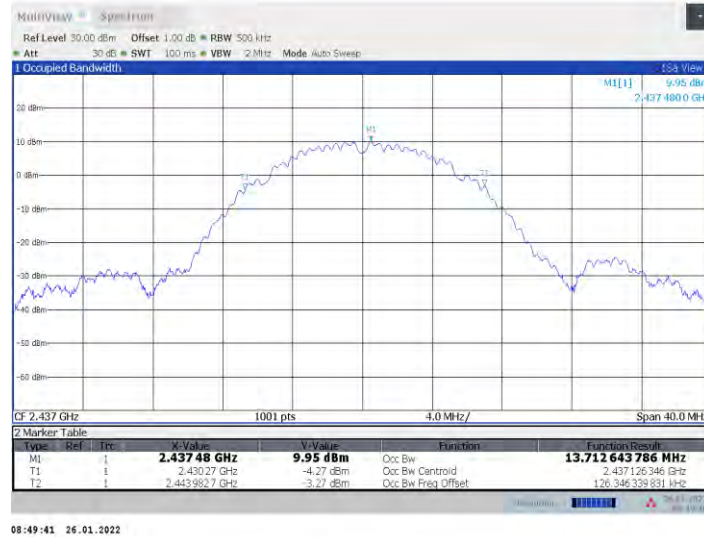
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Test Graphs

11b Ant1 2412



11b Ant1 2437

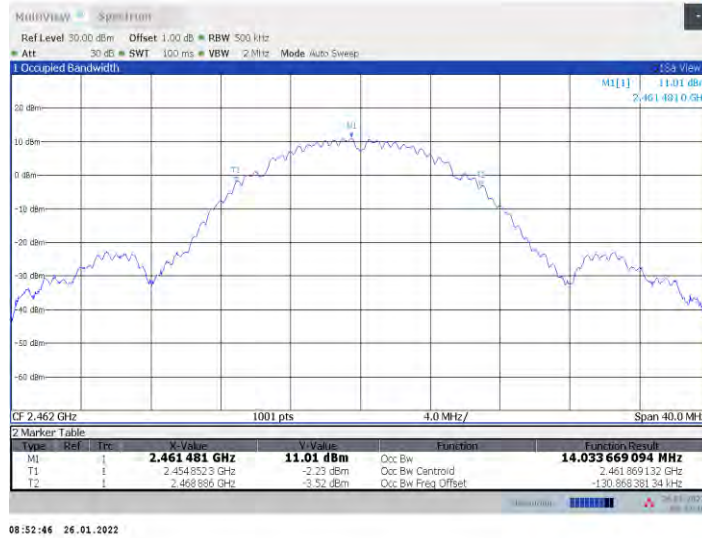


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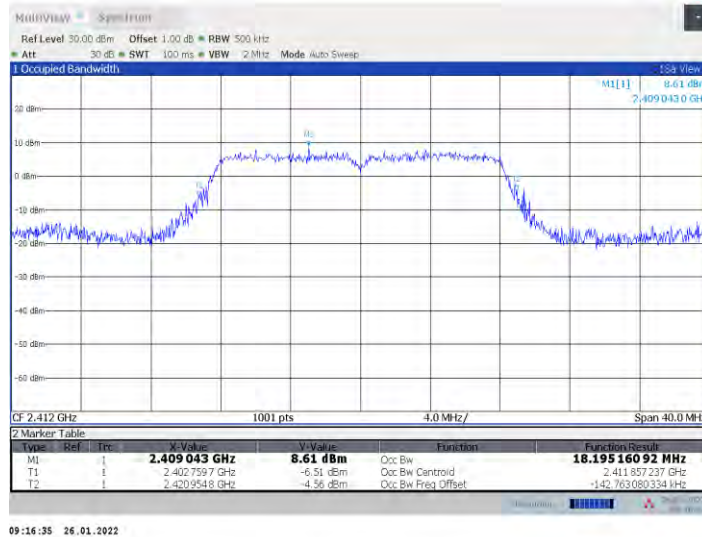
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11b Ant1 2462



11g Ant1 2412



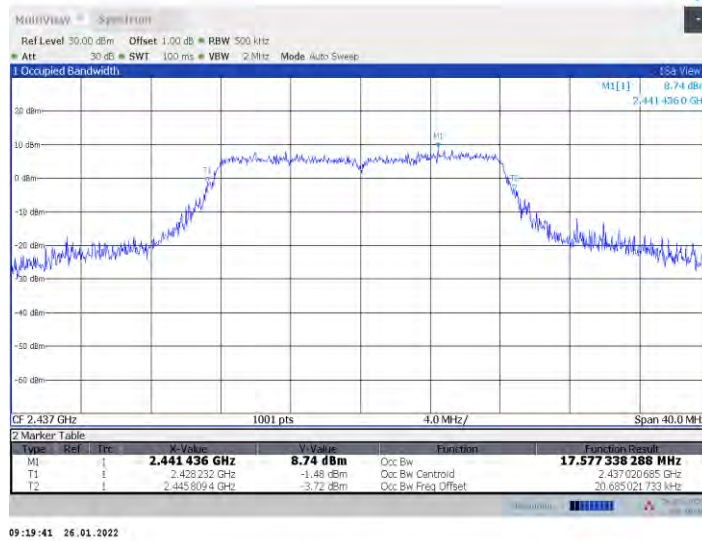
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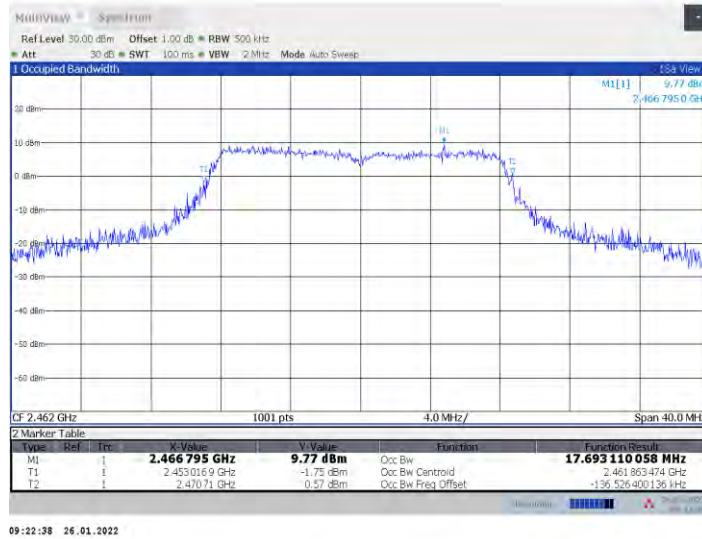
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11g Ant1 2437



09:19:41 26.01.2022

11g Ant1 2462



09:22:38 26.01.2022



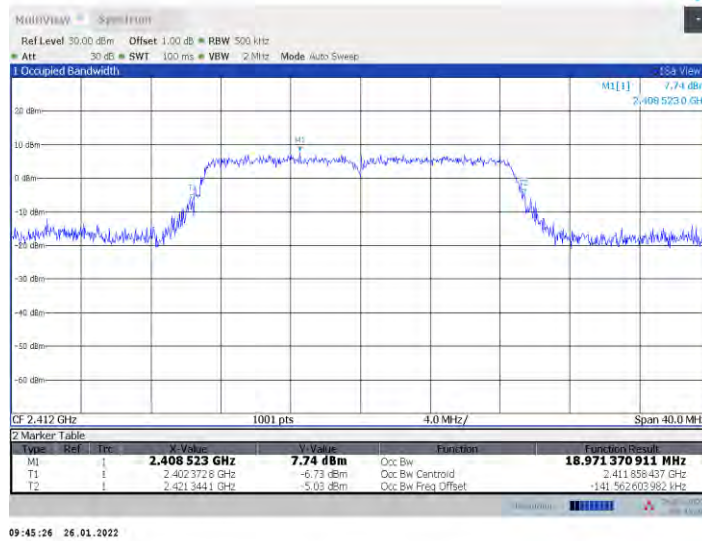
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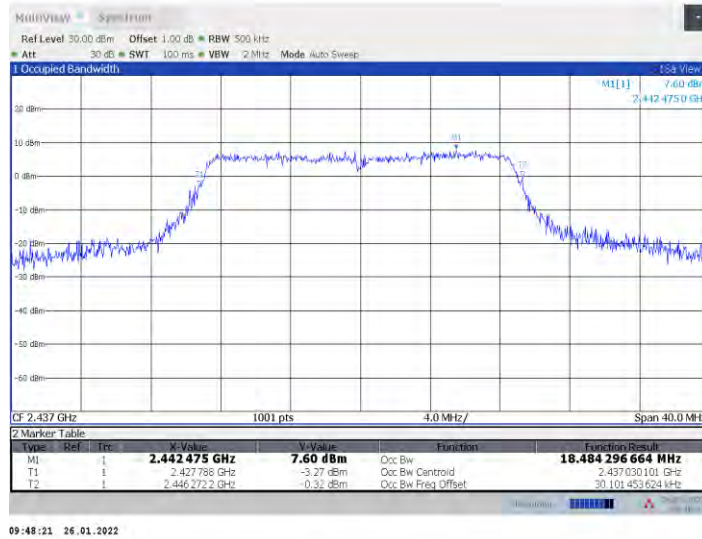
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

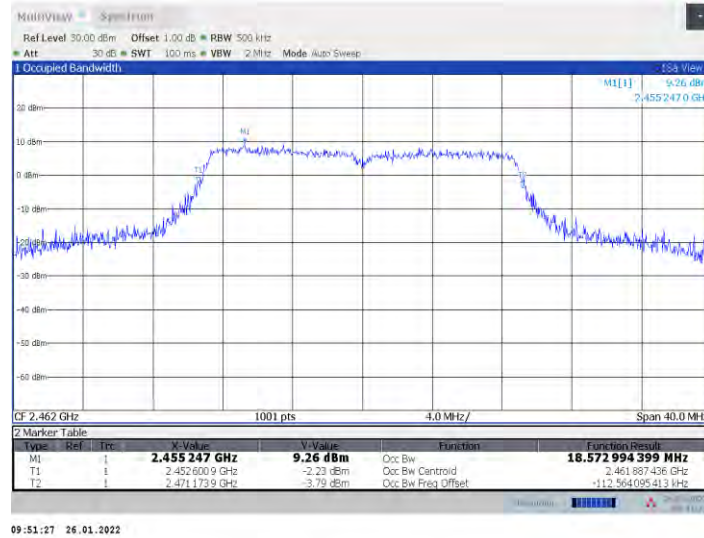


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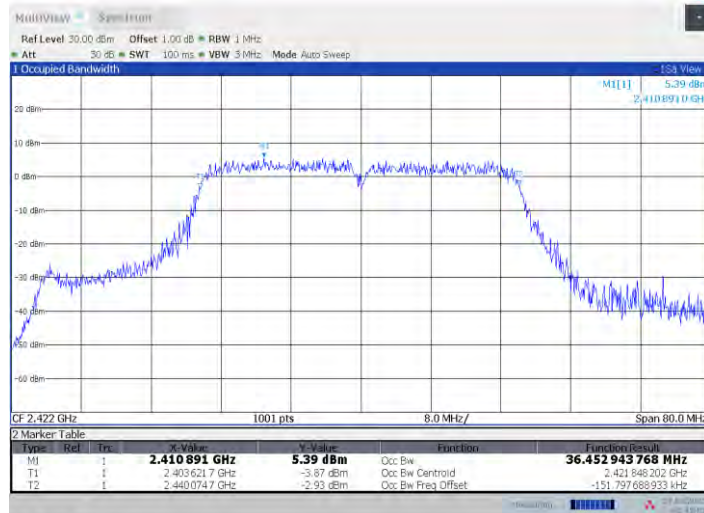
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11n20SISO_Ant1_2462



09:51:27 26.01.2022

11n40SISO_Ant1_2422



03:35:03 27.01.2022

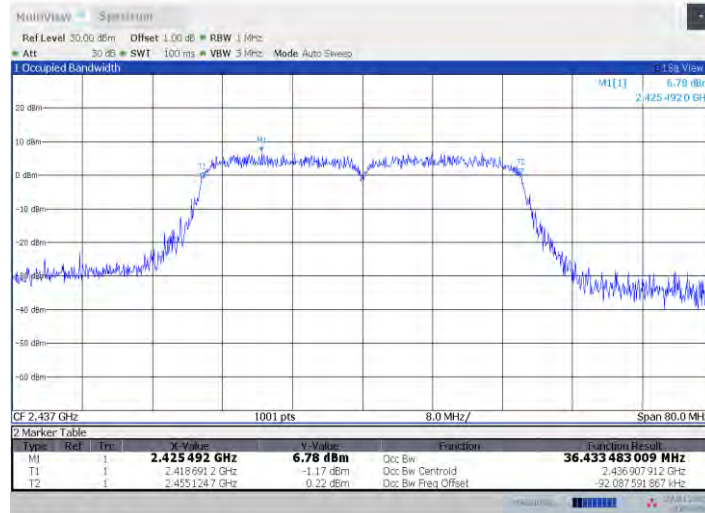


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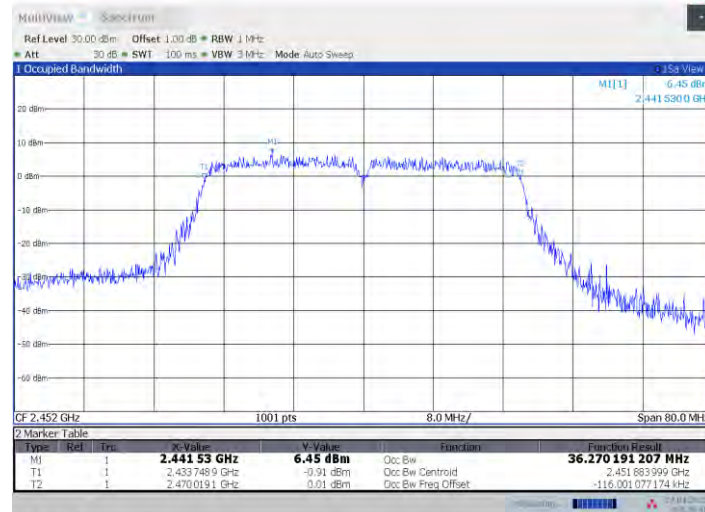
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**Maximum conducted output power
Test Result Peak**

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power [dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	---	21.10	≤30.00	PASS
		2437	---	20.55	≤30.00	PASS
		2462	---	21.61	≤30.00	PASS
11g	Ant1	2412	---	22.94	≤30.00	PASS
		2437	---	23.11	≤30.00	PASS
		2462	---	23.95	≤30.00	PASS
11n20SISO	Ant1	2412	---	22.98	≤30.00	PASS
		2437	---	23.18	≤30.00	PASS
		2462	---	24.04	≤30.00	PASS
11n40SISO	Ant1	2422	---	22.61	≤30.00	PASS
		2437	---	22.12	≤30.00	PASS
		2452	---	23.70	≤30.00	PASS



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**Maximum power spectral density
Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-1.53	≤8.00	PASS
		2437	-3.00	≤8.00	PASS
		2462	-1.69	≤8.00	PASS
11g	Ant1	2412	-8.82	≤8.00	PASS
		2437	-7.97	≤8.00	PASS
		2462	-6.97	≤8.00	PASS
11n20SISO	Ant1	2412	-8.11	≤8.00	PASS
		2437	-8.11	≤8.00	PASS
		2462	-6.51	≤8.00	PASS
11n40SISO	Ant1	2422	-11.40	≤8.00	PASS
		2437	-11.88	≤8.00	PASS
		2452	-11.02	≤8.00	PASS

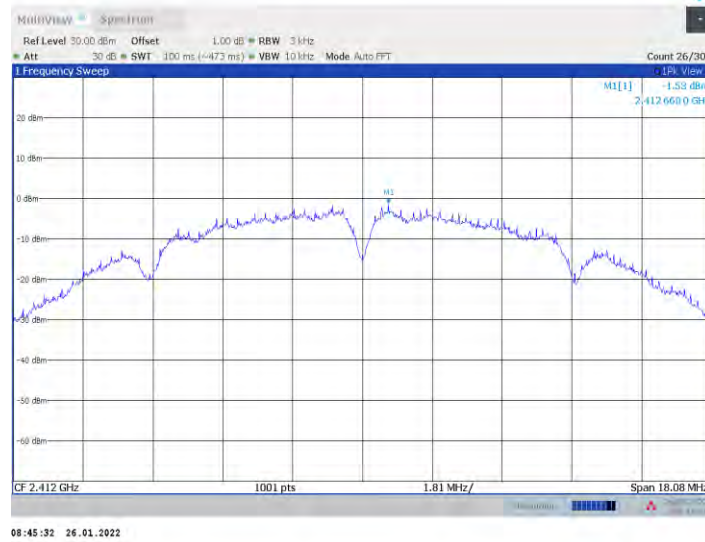


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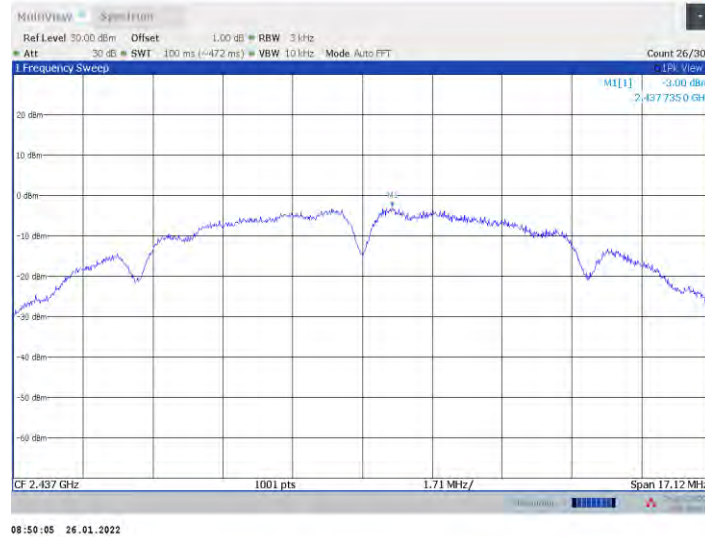
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Test Graphs

11b Ant1 2412



11b Ant1 2437

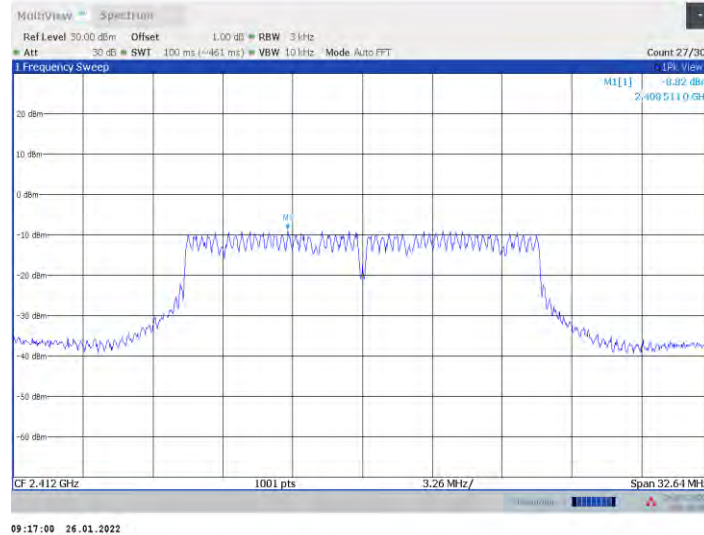


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11b_Ant1_2462



11g_Ant1_2412

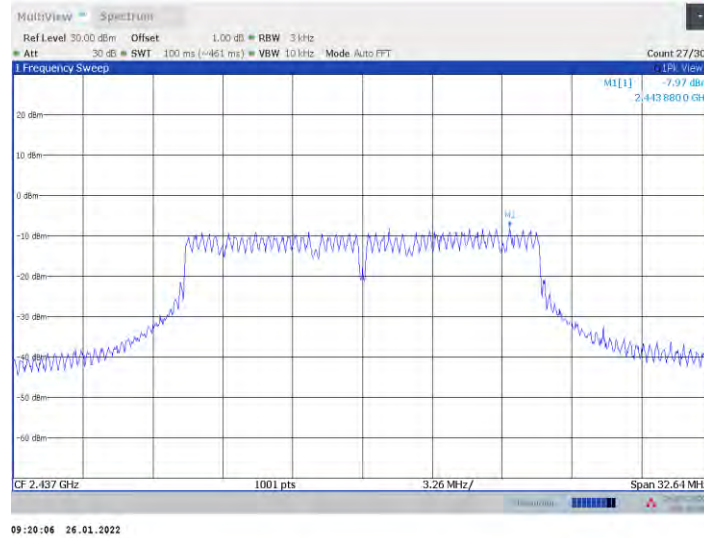


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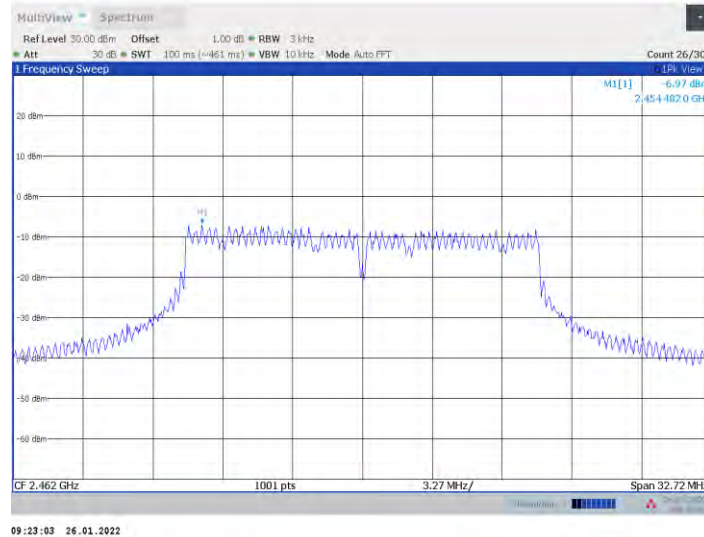
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11g_Ant1_2437



11g_Ant1_2462

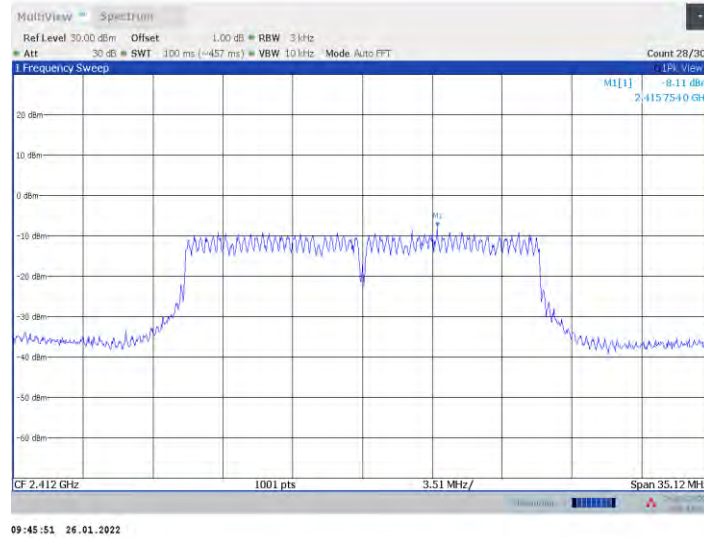


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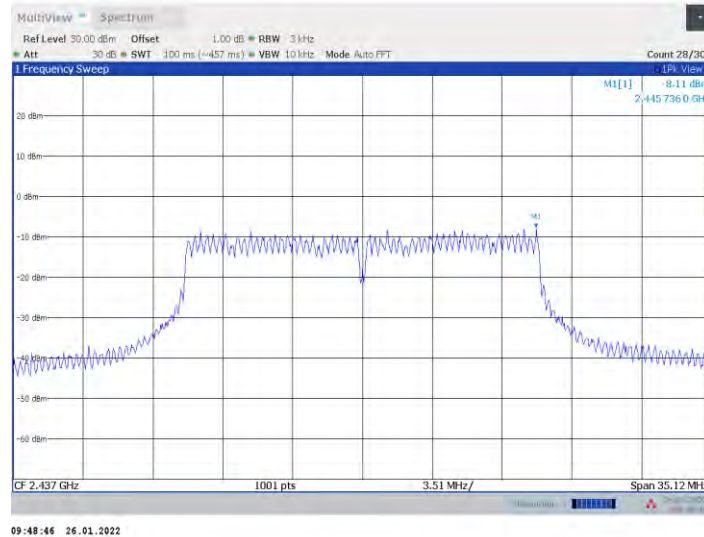
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11n20SISO_Ant1_2412

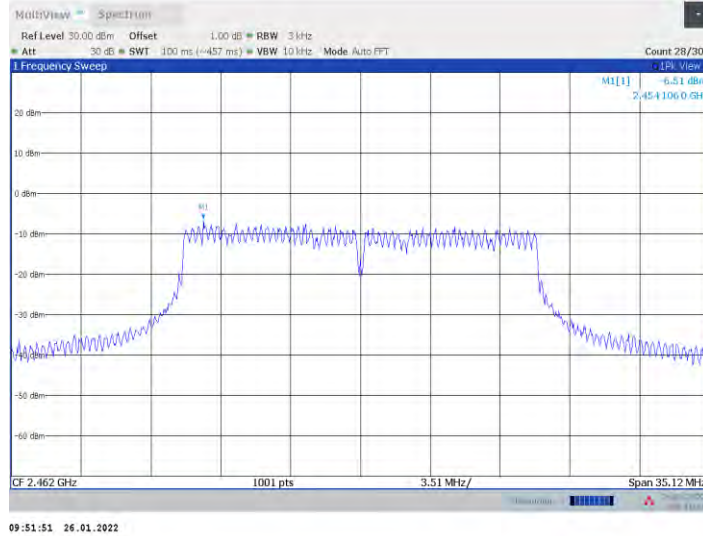


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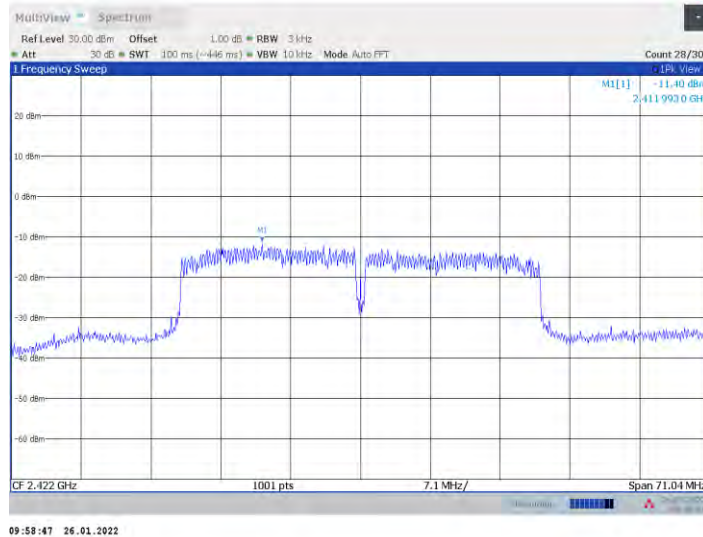


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11n20SISO_Ant1_2462



11n40SISO_Ant1_2422

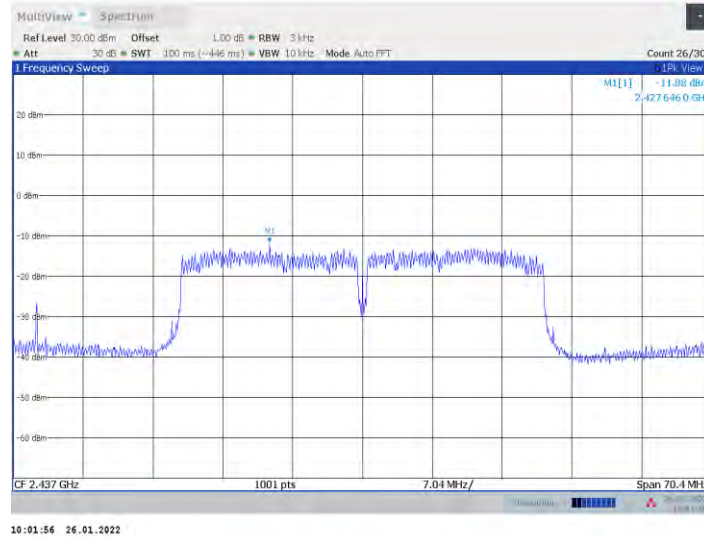


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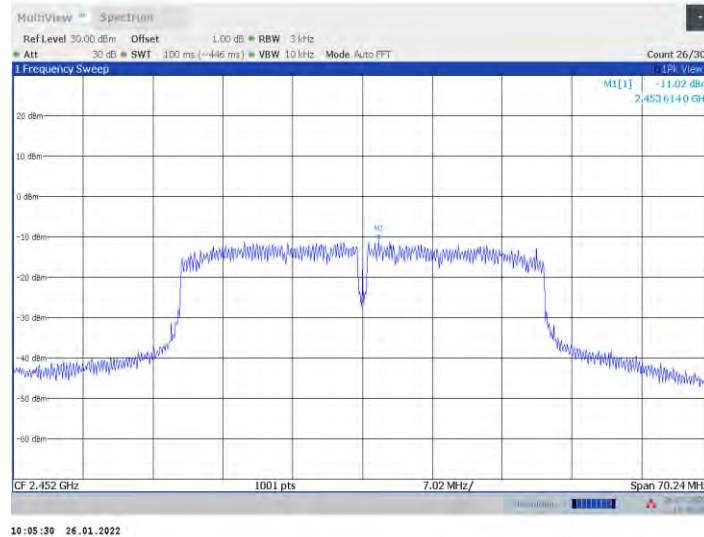
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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Band edge measurements
Test Result

Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	Low	2412	8.32	-31.40	≤-11.68	PASS
		High	2462	7.60	-53.37	≤-12.40	PASS
11g	Ant1	Low	2412	2.74	-27.65	≤-17.26	PASS
		High	2462	2.10	-44.17	≤-17.90	PASS
11n20SISO	Ant1	Low	2412	2.64	-27.83	≤-17.36	PASS
		High	2462	2.14	-45.12	≤-17.86	PASS
11n40SISO	Ant1	Low	2422	-1.65	-30.92	≤-21.65	PASS
		High	2452	-0.75	-43.50	≤-20.75	PASS



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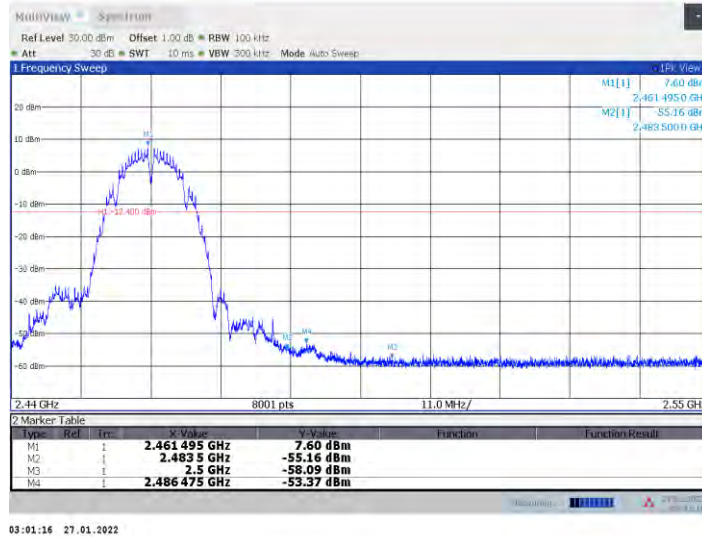
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Test Graphs

11b Ant1 Low 2412



11b Ant1 High 2462

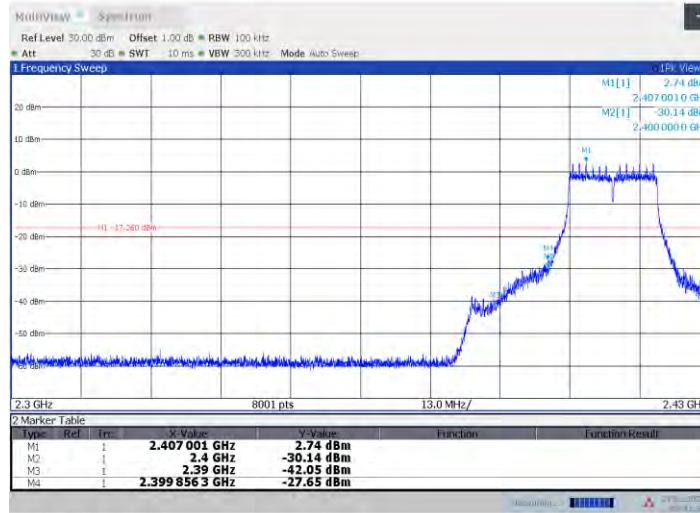


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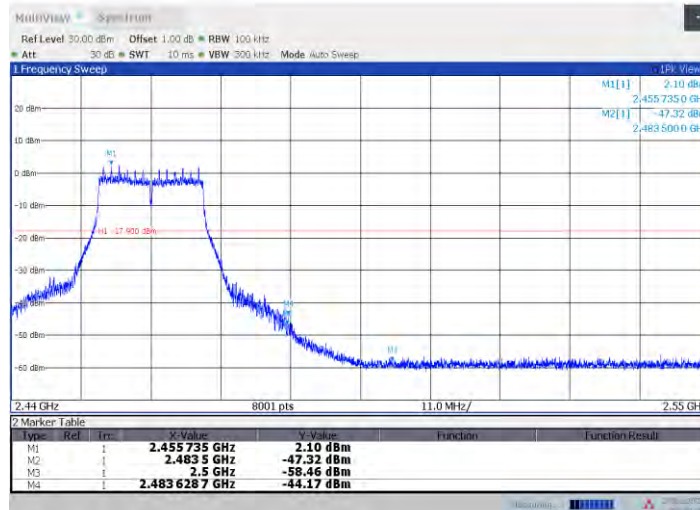
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11g Ant1_Low_2412



03:01:59 27.01.2022

11g Ant1_High_2462



03:02:36 27.01.2022



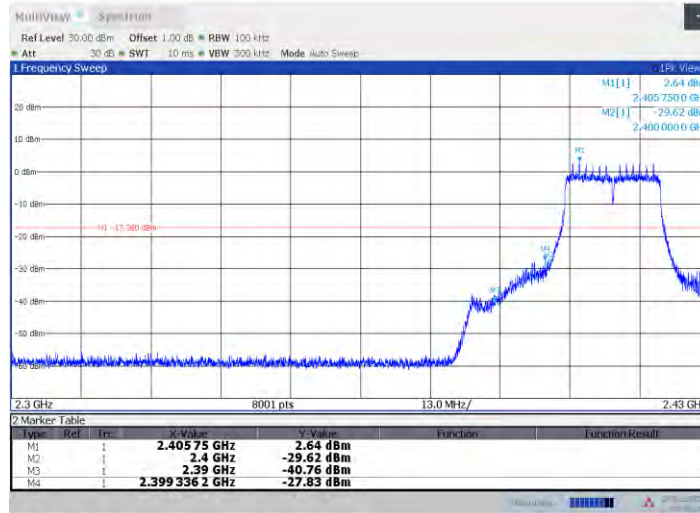
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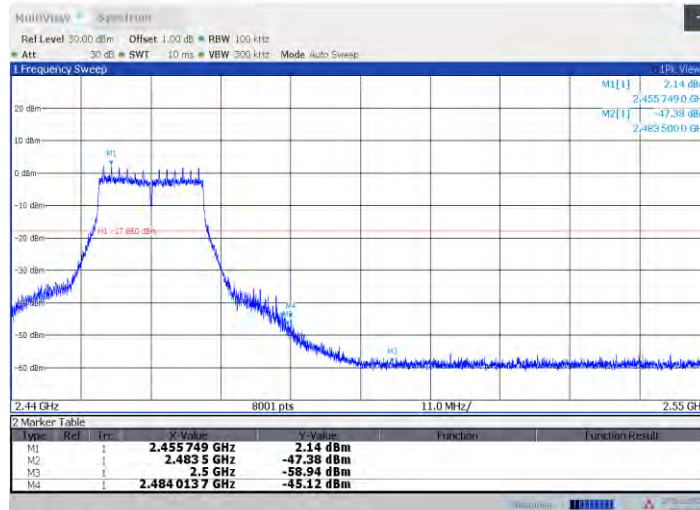
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11n20SISO_Ant1_Low_2412



03:03:22 27.01.2022

11n20SISO_Ant1_High_2462



03:03:56 27.01.2022



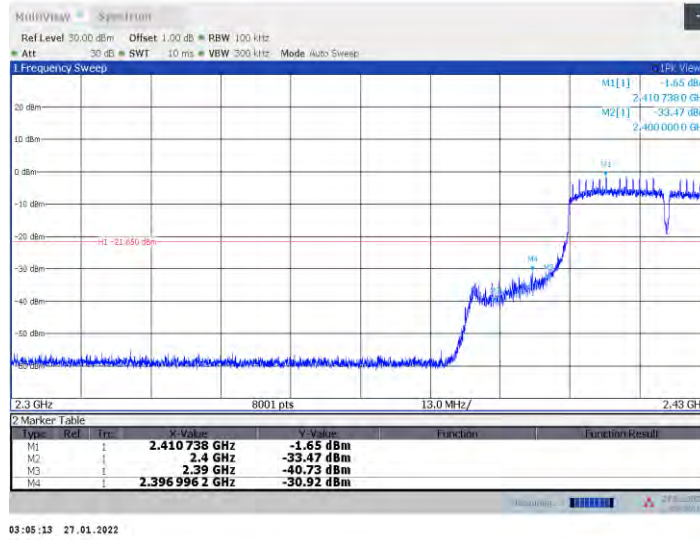
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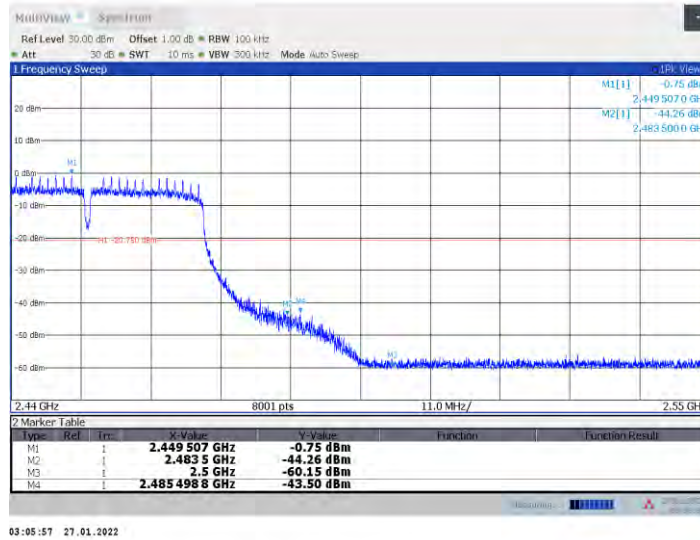
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11n40SISO_Ant1_Low_2422



11n40SISO_Ant1_High_2452



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Conducted Spurious Emission Test Result

Test Mode	Antenna	Frequency [MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	9.63	9.63	---	PASS
			30~1000	9.63	-59.35	≤-10.37	PASS
			1000~26500	9.63	-38.27	≤-10.37	PASS
		2437	Reference	9.13	9.13	---	PASS
			30~1000	9.13	-60	≤-10.87	PASS
			1000~26500	9.13	-39.07	≤-10.87	PASS
		2462	Reference	10.26	10.26	---	PASS
			30~1000	10.26	-59.91	≤-9.74	PASS
			1000~26500	10.26	-36.91	≤-9.74	PASS
11g	Ant1	2412	Reference	4.08	4.08	---	PASS
			30~1000	4.08	-60.23	≤-15.92	PASS
			1000~26500	4.08	-52.62	≤-15.92	PASS
		2437	Reference	4.20	4.20	---	PASS
			30~1000	4.20	-59.82	≤-15.8	PASS
			1000~26500	4.20	-52.68	≤-15.8	PASS
		2462	Reference	5.45	5.45	---	PASS
			30~1000	5.45	-60.21	≤-14.55	PASS
			1000~26500	5.45	-41.2	≤-14.55	PASS
11n20SISO	Ant1	2412	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-59.75	≤-16	PASS
			1000~26500	4.00	-51.33	≤-16	PASS
		2437	Reference	3.92	3.92	---	PASS
			30~1000	3.92	-59.14	≤-16.08	PASS
			1000~26500	3.92	-53.5	≤-16.08	PASS
		2462	Reference	5.58	5.58	---	PASS
			30~1000	5.58	-59.42	≤-14.42	PASS
			1000~26500	5.58	-40.56	≤-14.42	PASS
11n40SISO	Ant1	2422	Reference	1.05	1.05	---	PASS



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			30~1000	1.05	-59.38	≤-18.95	PASS
			1000~26500	1.05	-55.02	≤-18.95	PASS
		2437	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-60.39	≤-19.92	PASS
			1000~26500	0.08	-54.4	≤-19.92	PASS
		2452	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-59.23	≤-18.06	PASS
			1000~26500	1.94	-52.43	≤-18.06	PASS



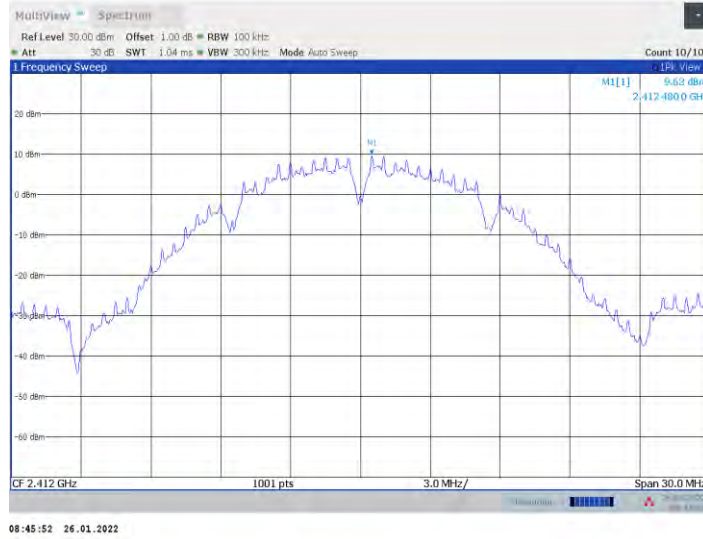
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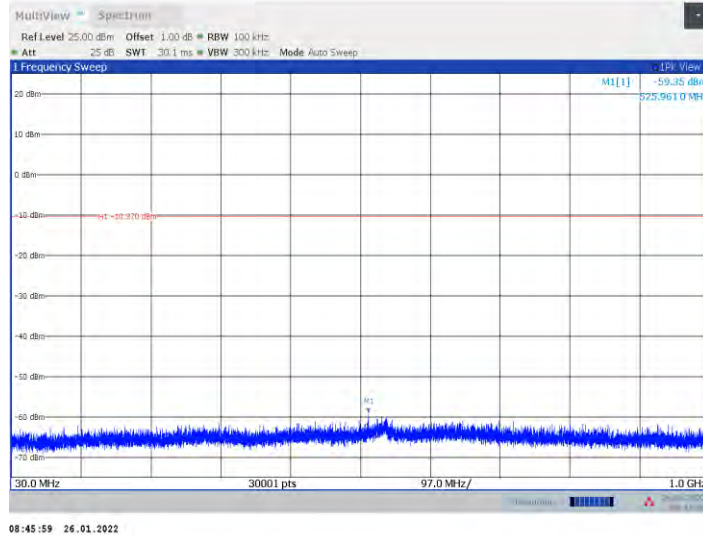
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Test Graphs

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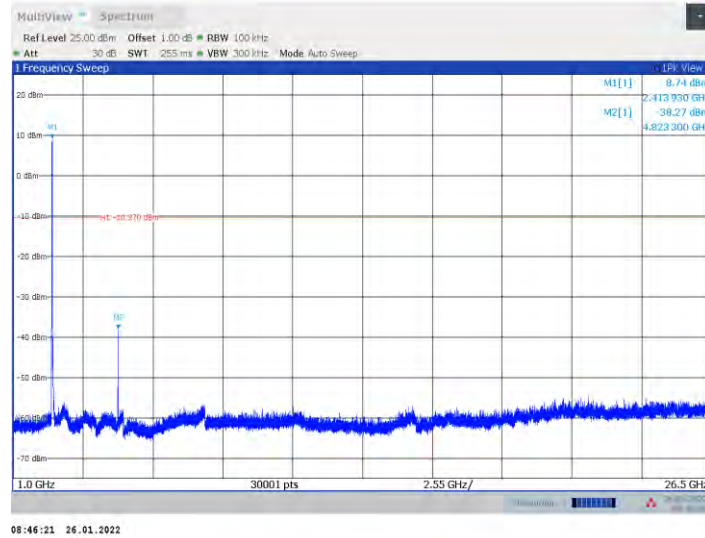


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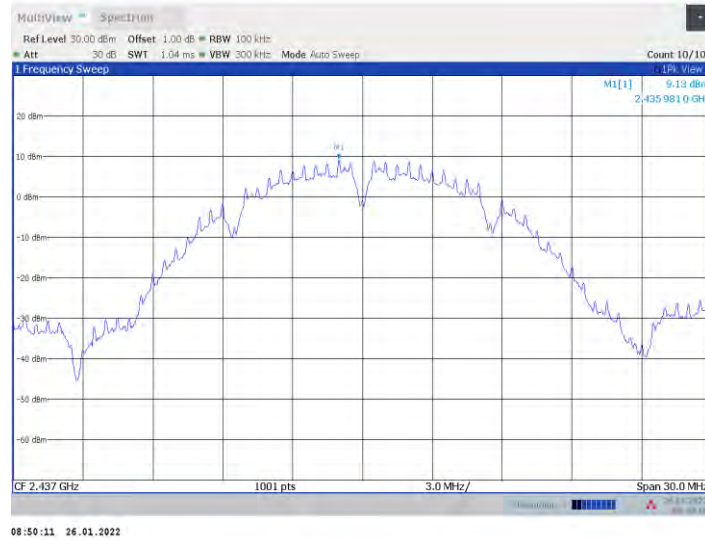


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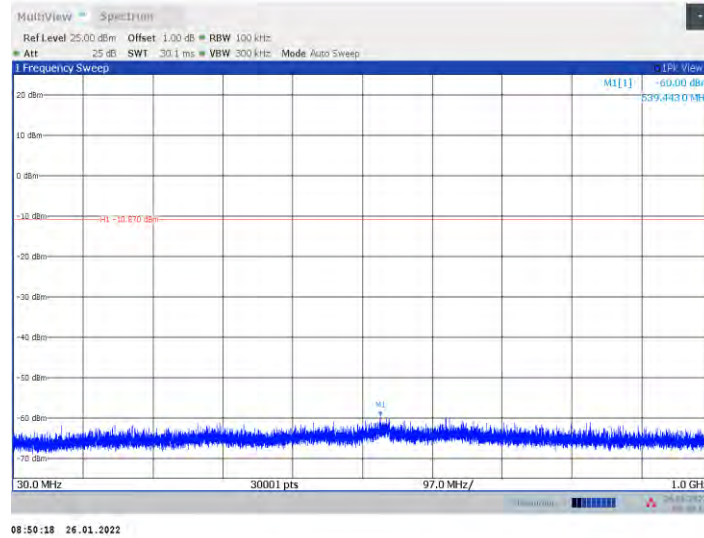


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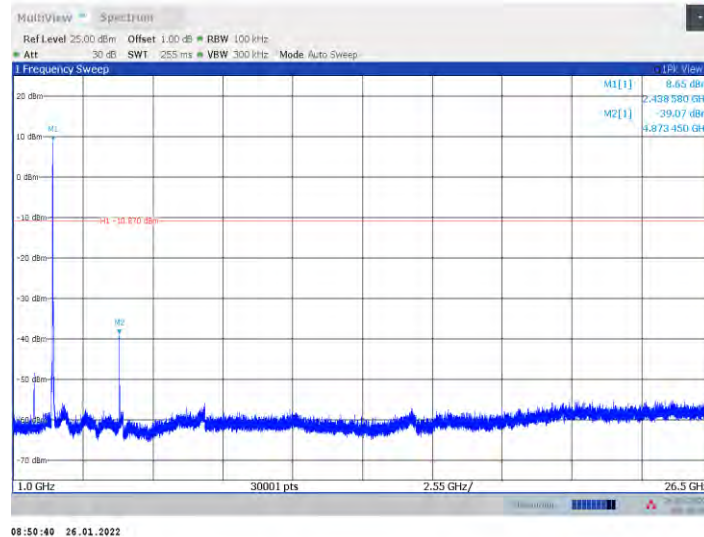
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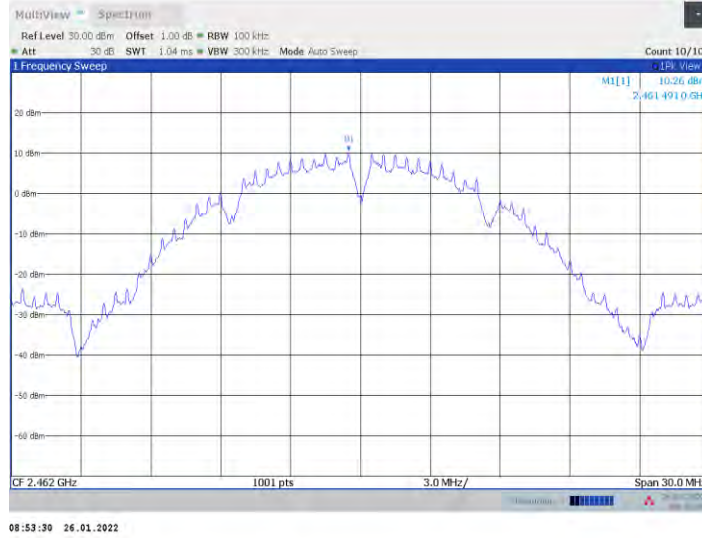


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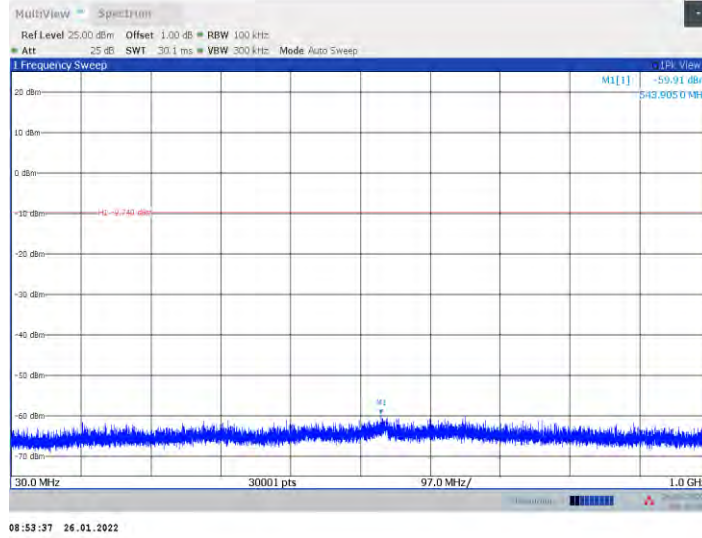
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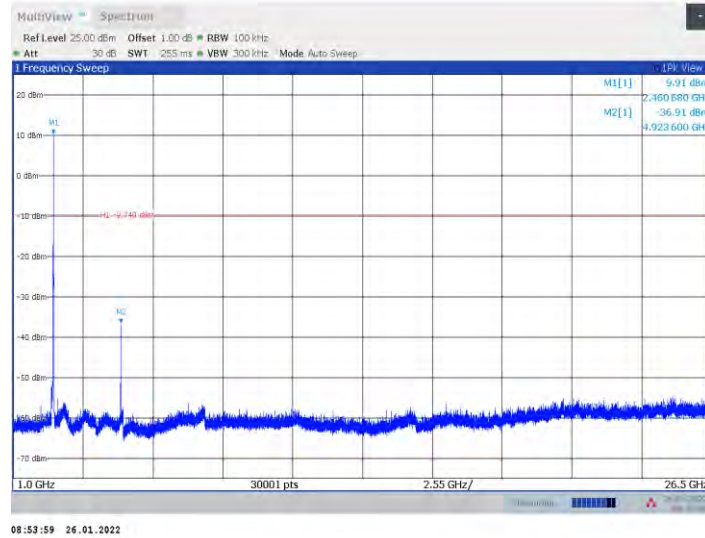


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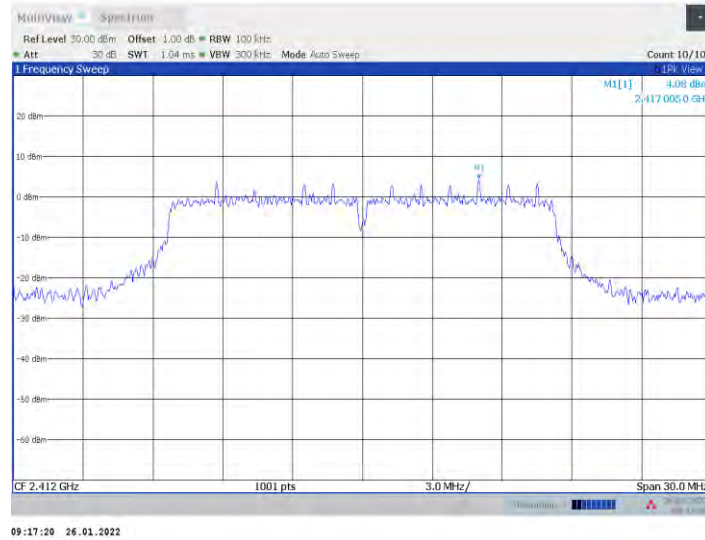
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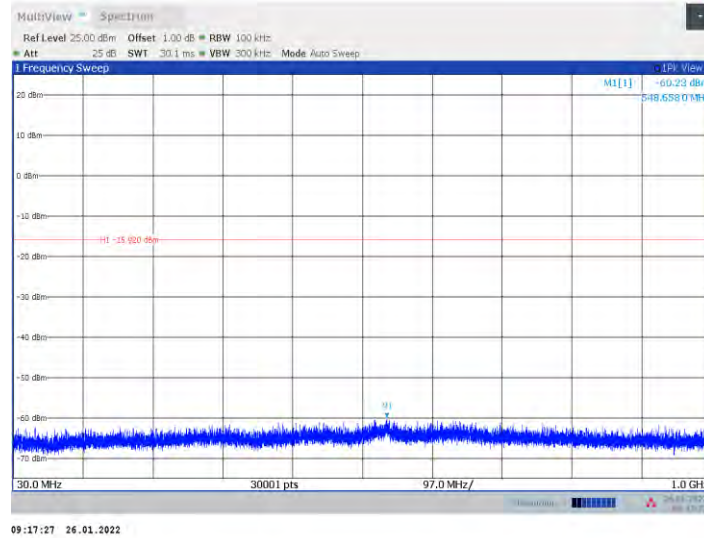
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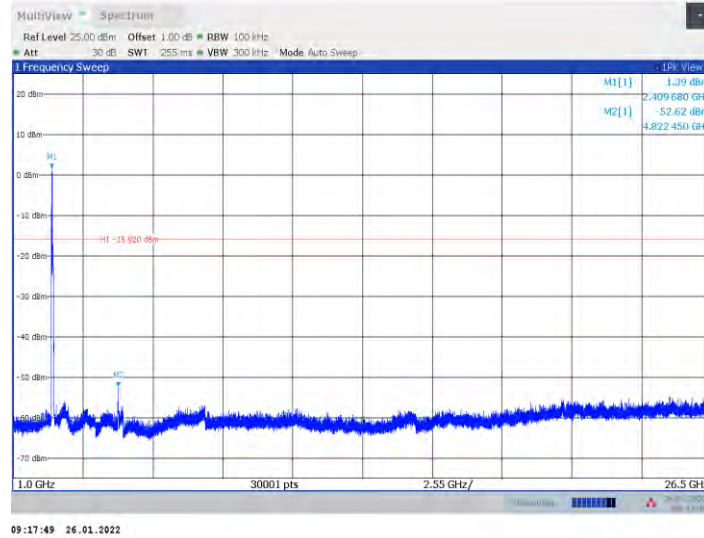
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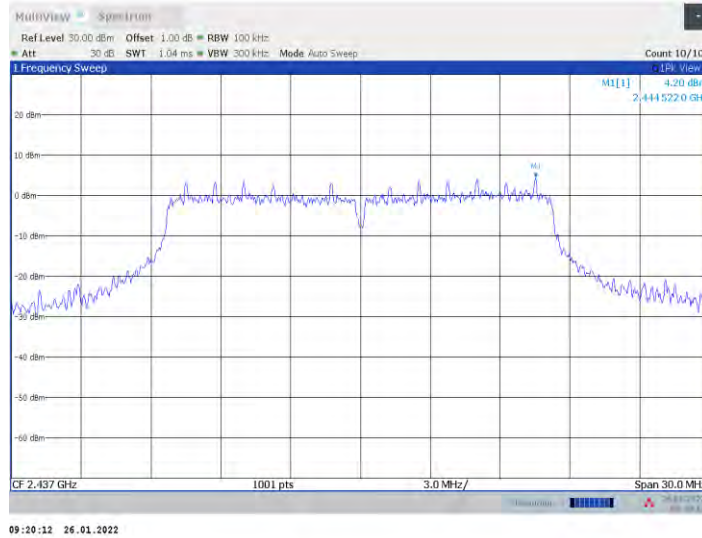
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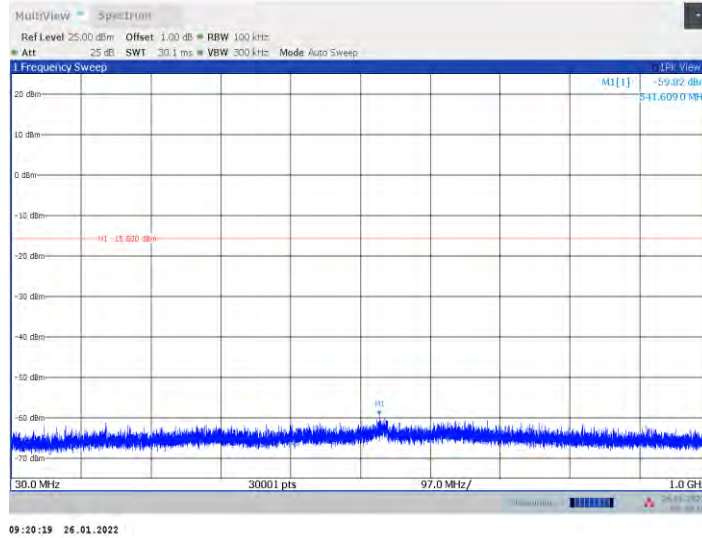
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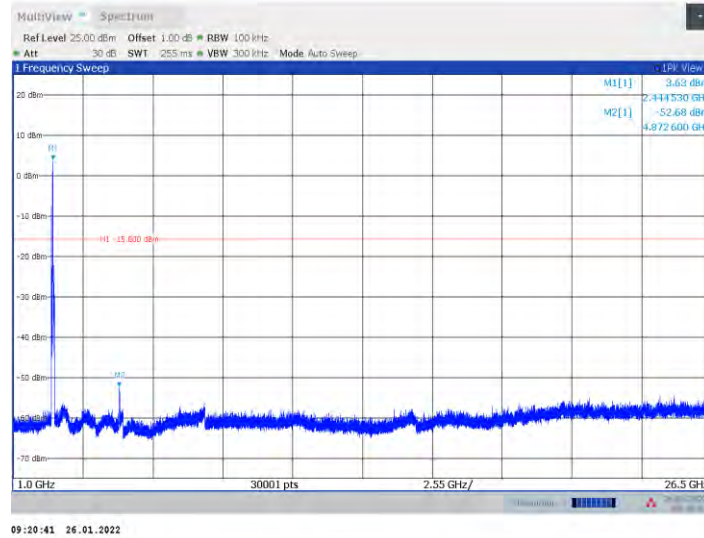


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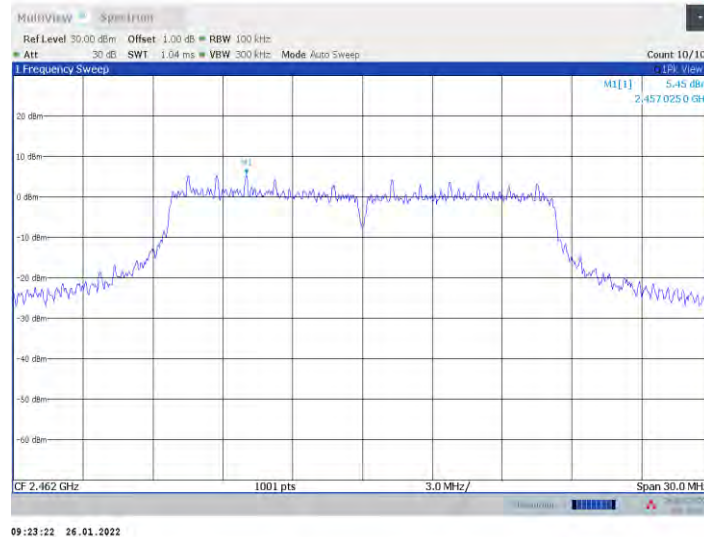
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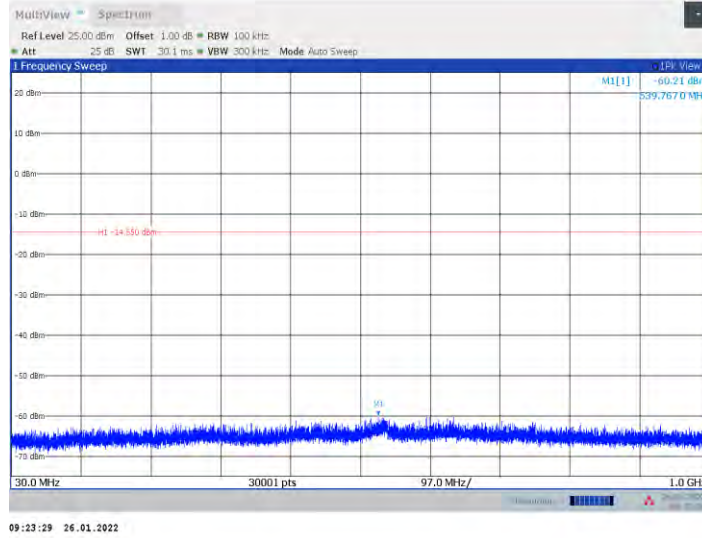
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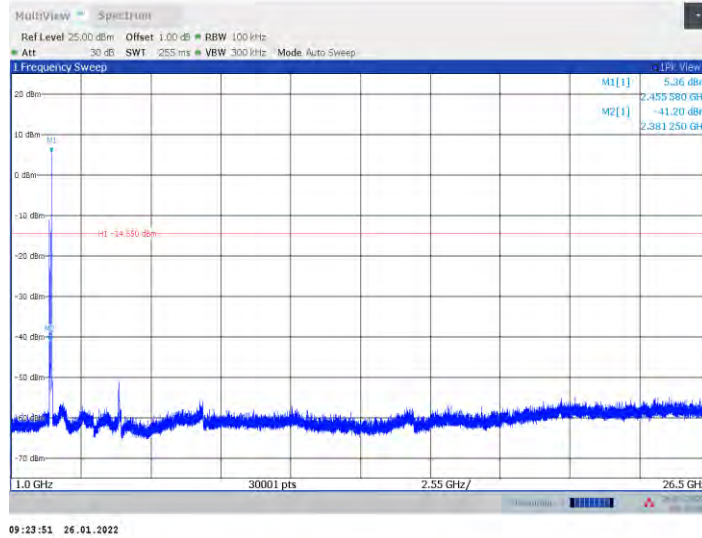
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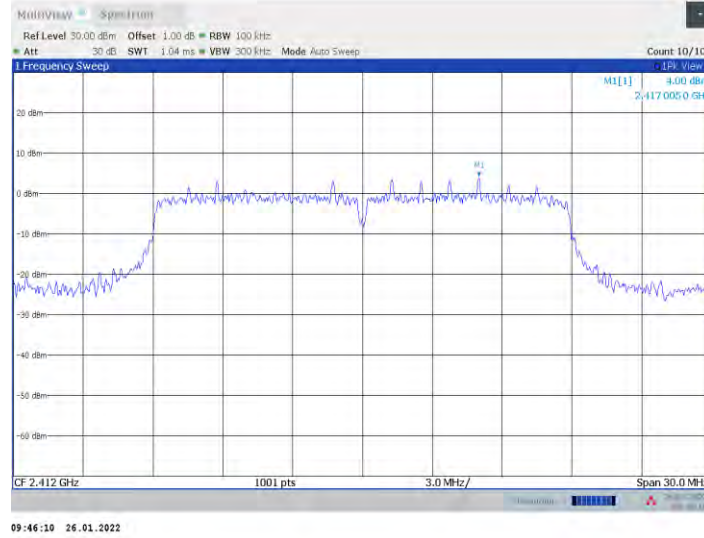
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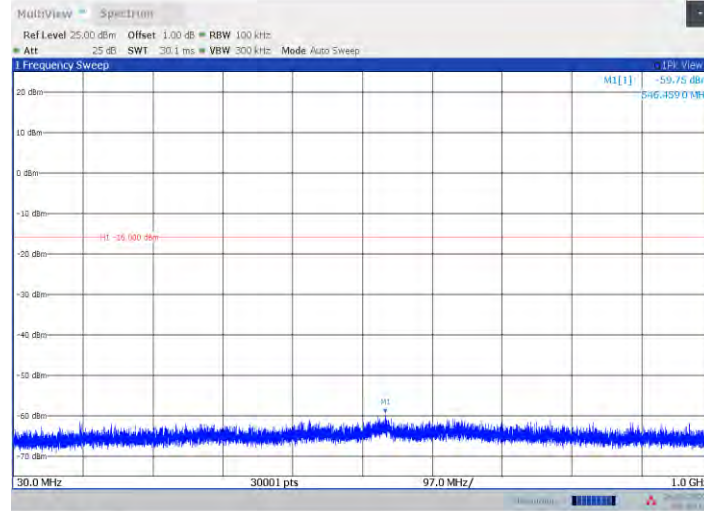
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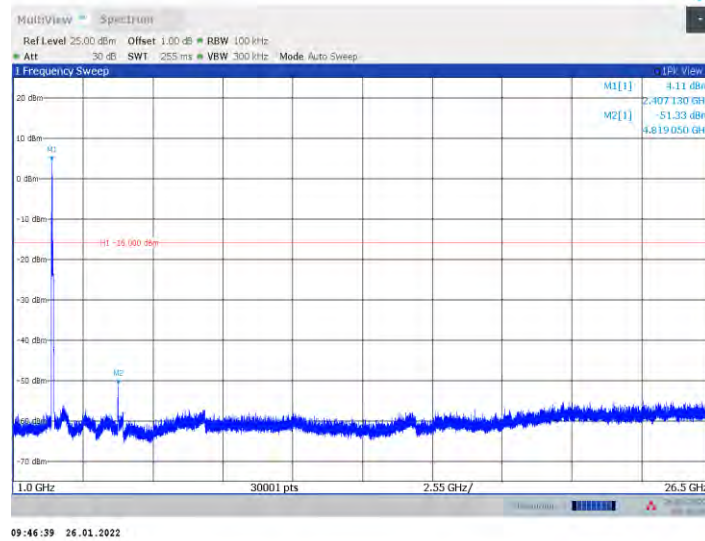
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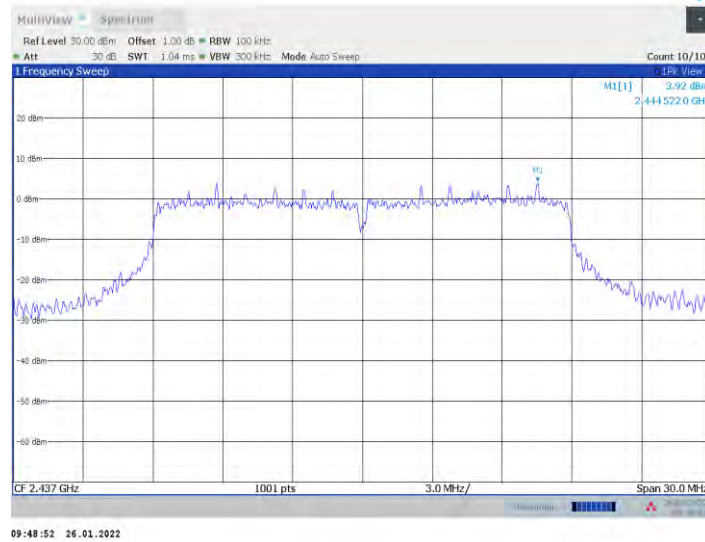
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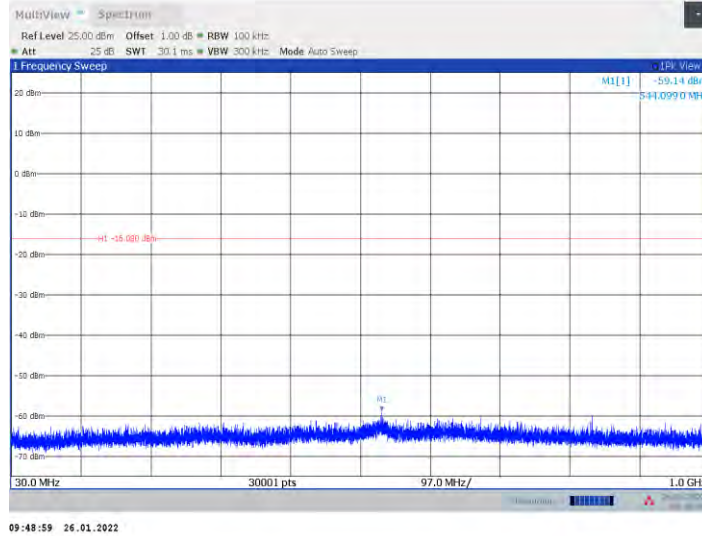
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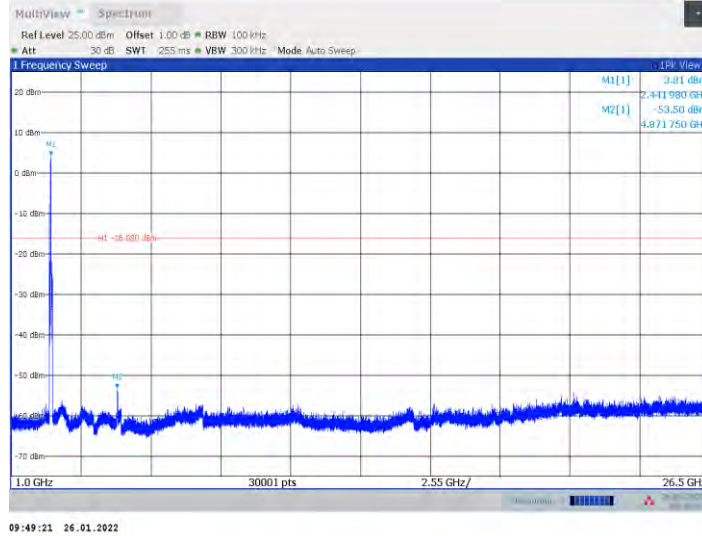
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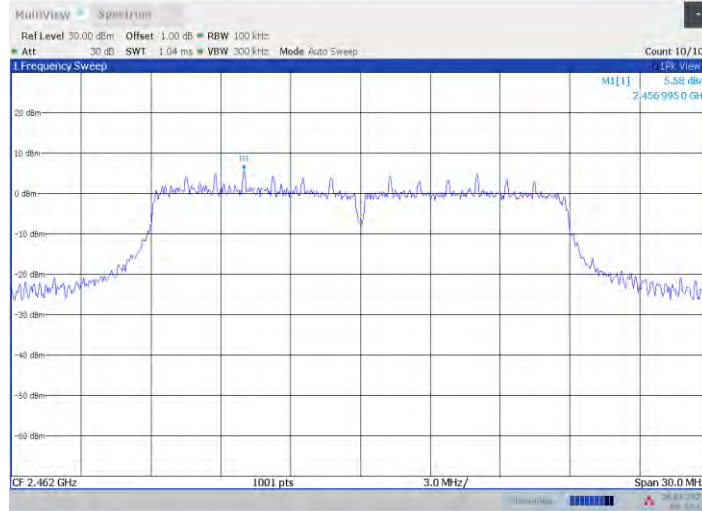


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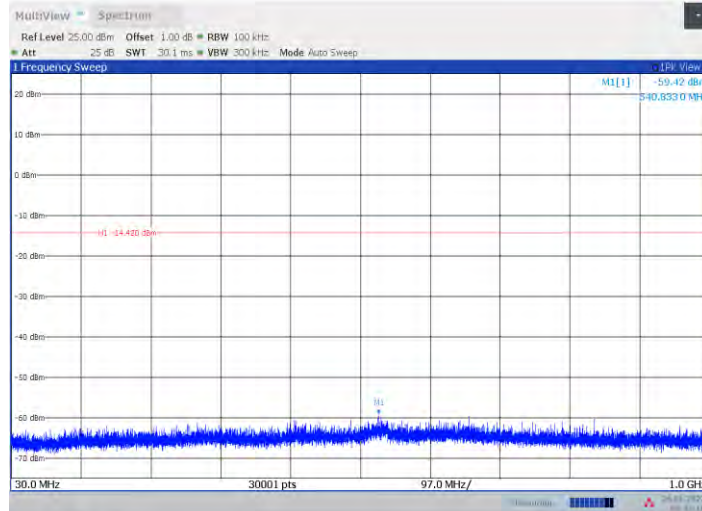
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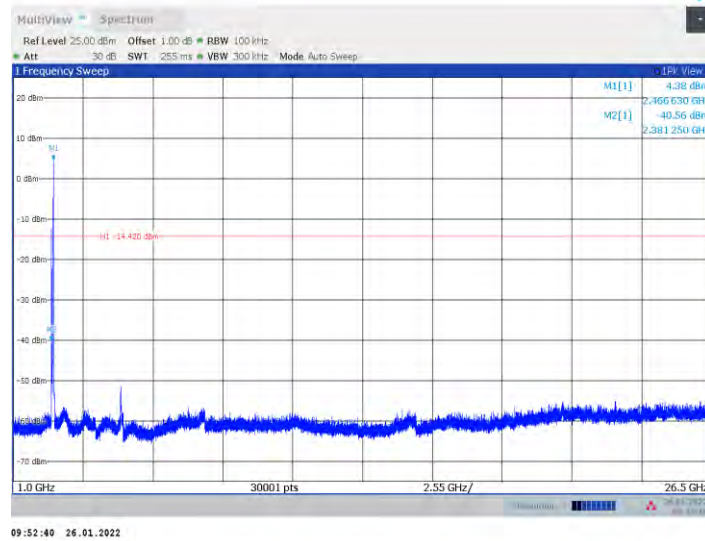
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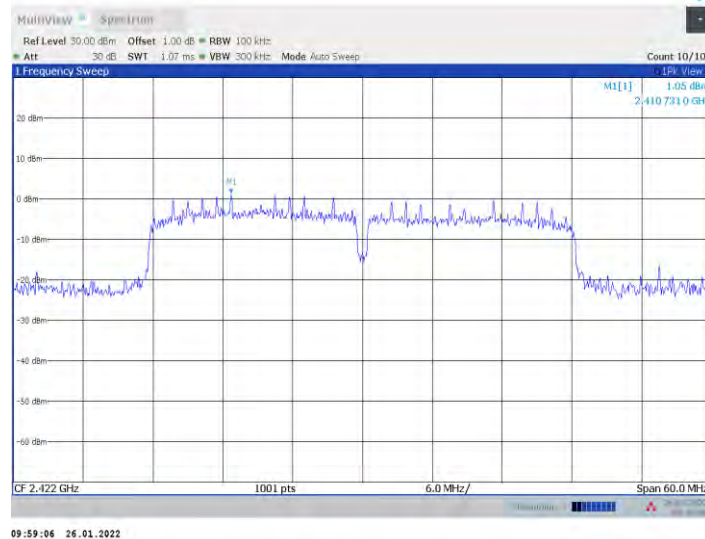
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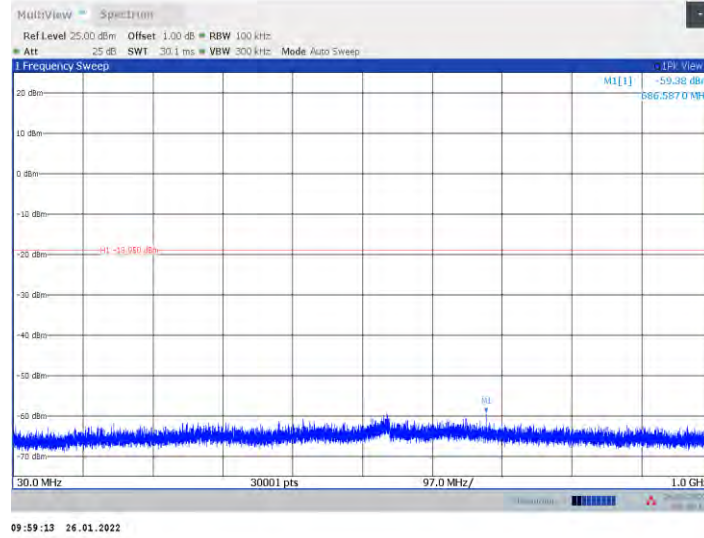


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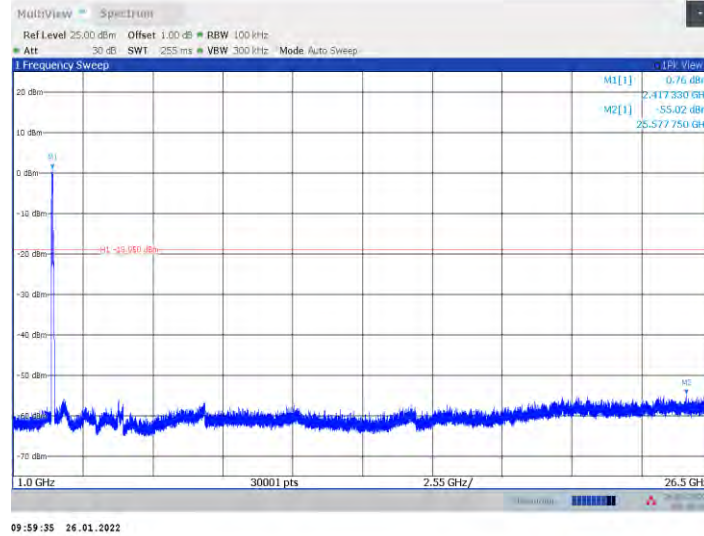
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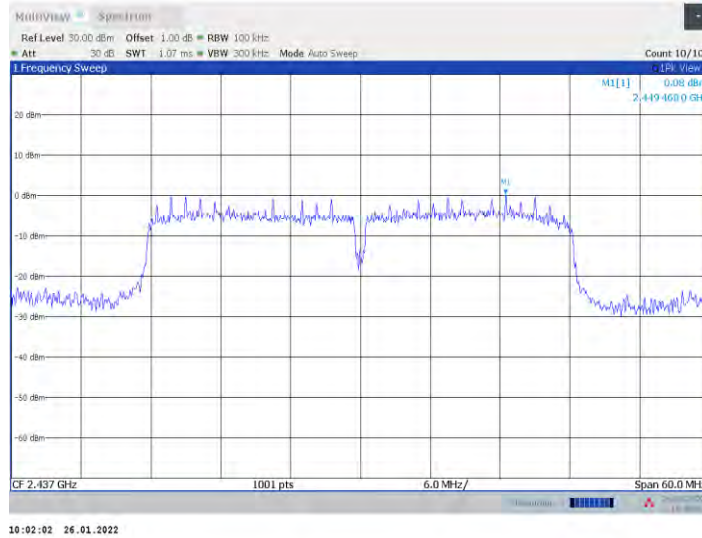


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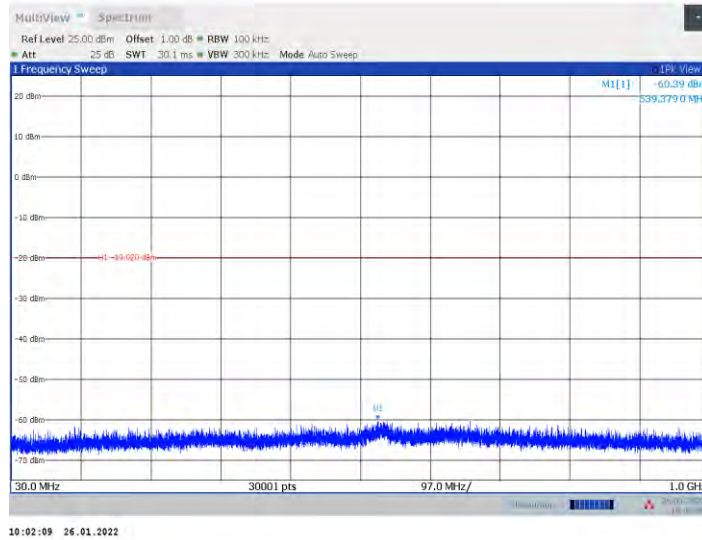
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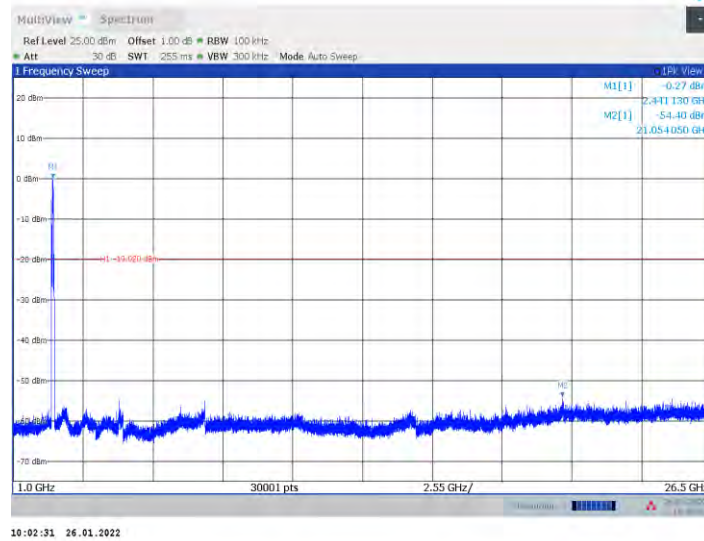
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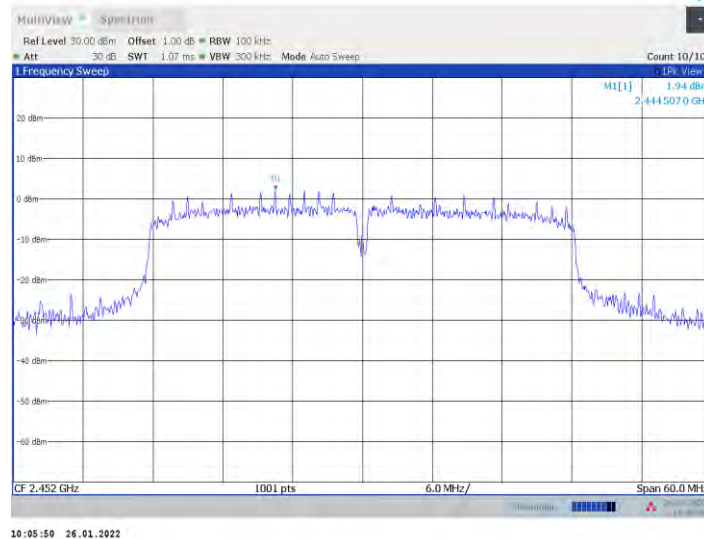
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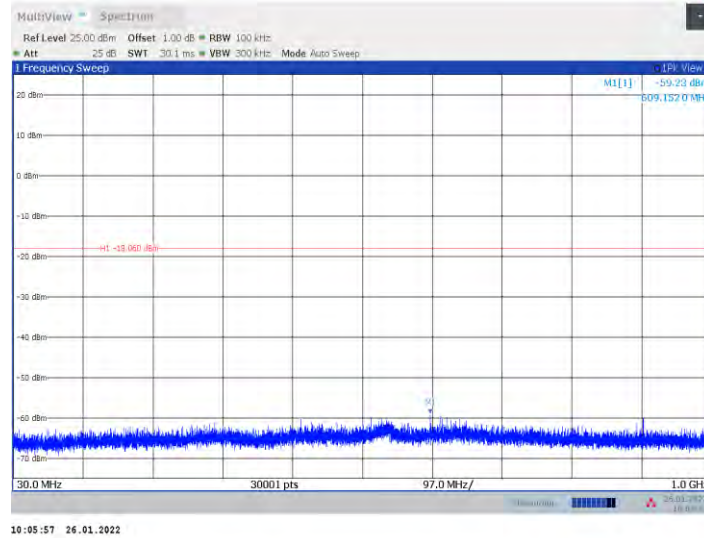


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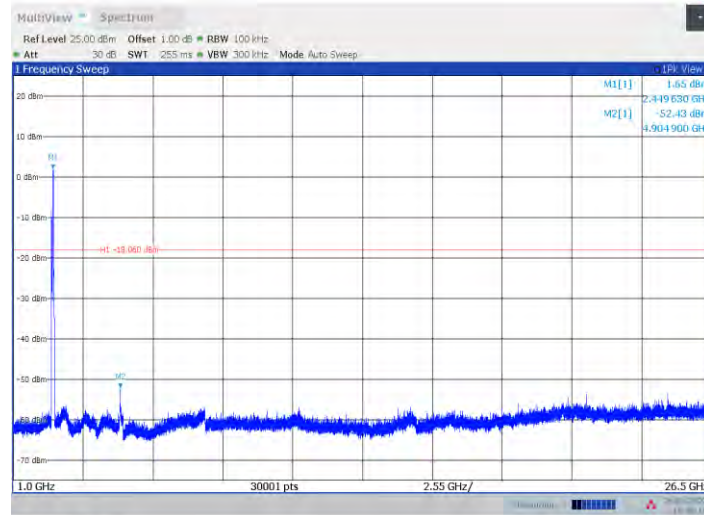
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Duty Cycle Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	8.22	8.42	97.62
		2437	8.23	8.43	97.63
		2462	8.23	8.42	97.74
11g	Ant1	2412	1.37	1.57	87.26
		2437	1.37	1.57	87.26
		2462	1.37	1.56	87.82
11n20SISO	Ant1	2412	1.27	1.47	86.39
		2437	1.27	1.47	86.39
		2462	1.28	1.48	86.49
11n40SISO	Ant1	2422	0.63	0.84	75.00
		2437	0.63	0.83	75.90
		2452	0.64	0.84	76.19



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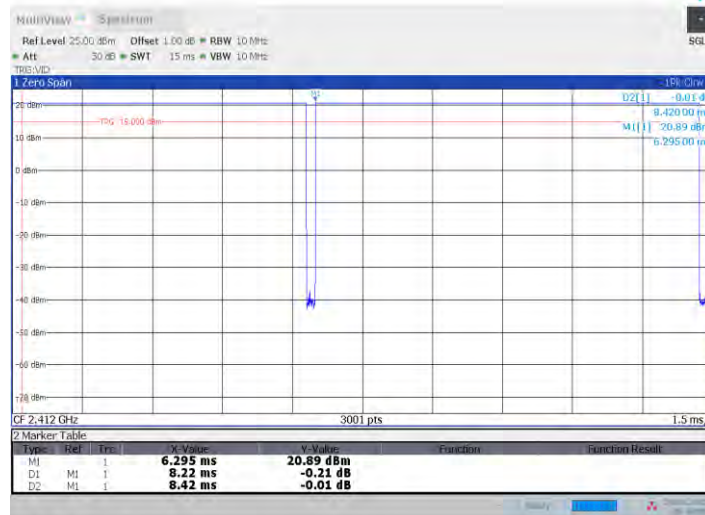
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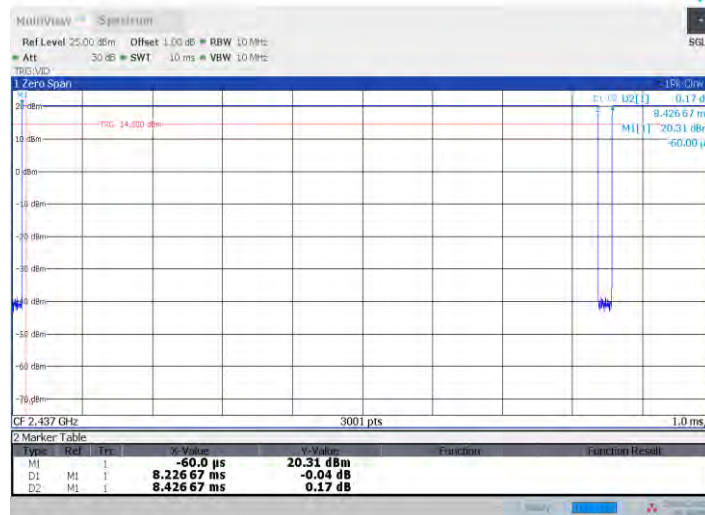
Test Graphs

11b Ant1 2412



08:44:09 26.01.2022

11b Ant1 2437



08:49:00 26.01.2022

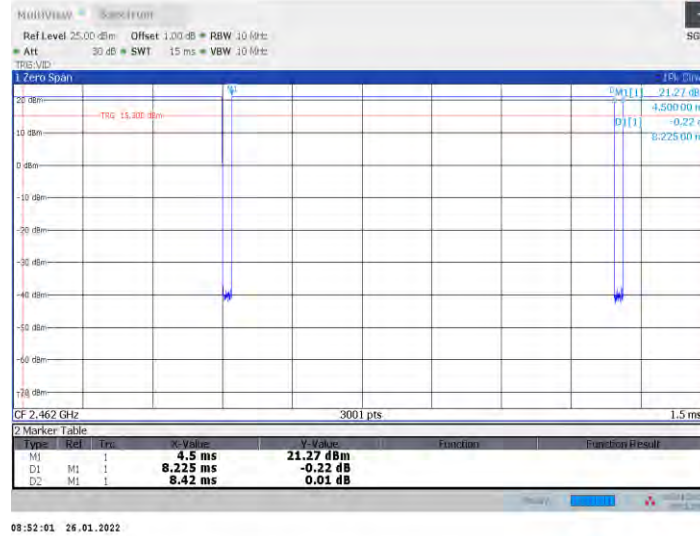


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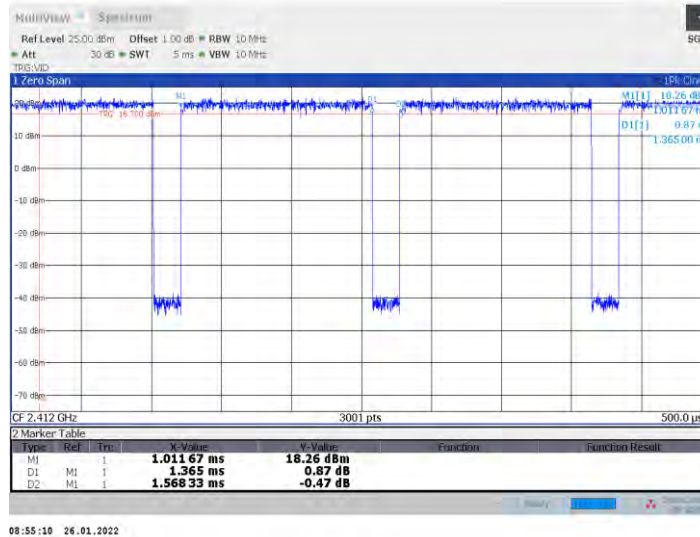
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11b Ant1 2462



11g Ant1 2412

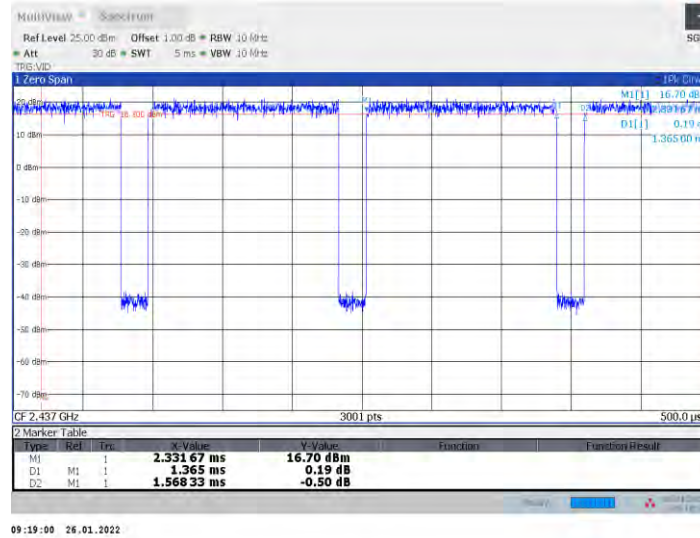


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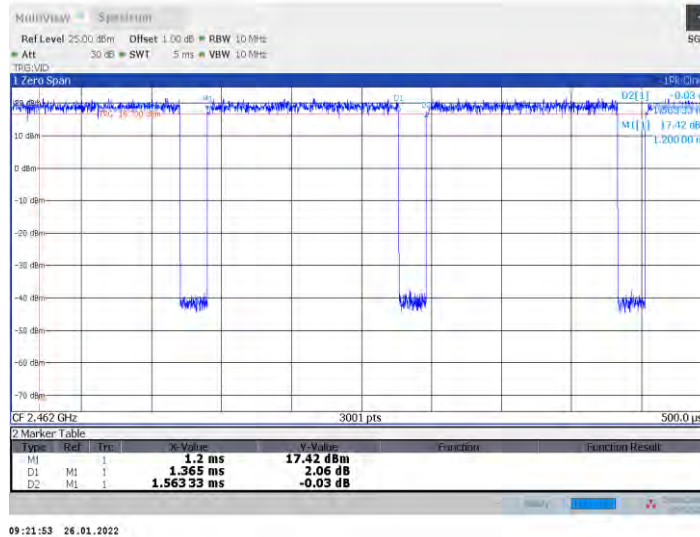
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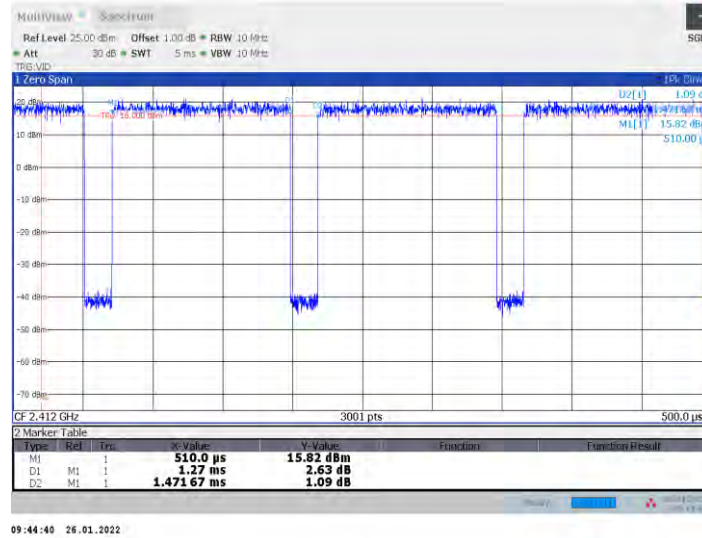
11g Ant1 2437



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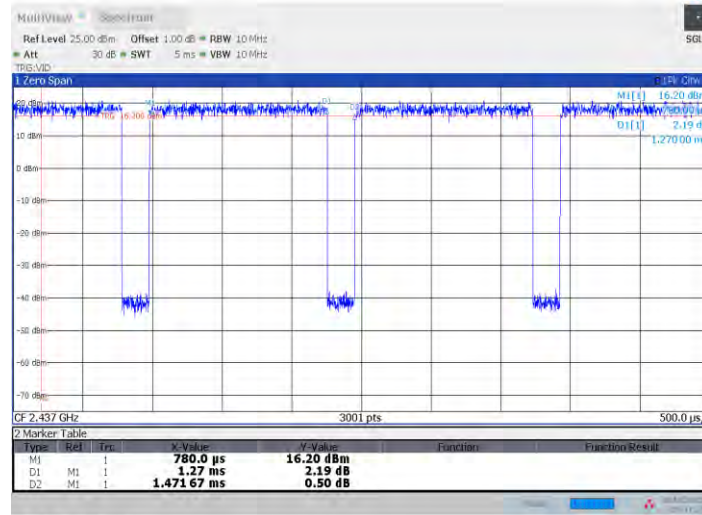


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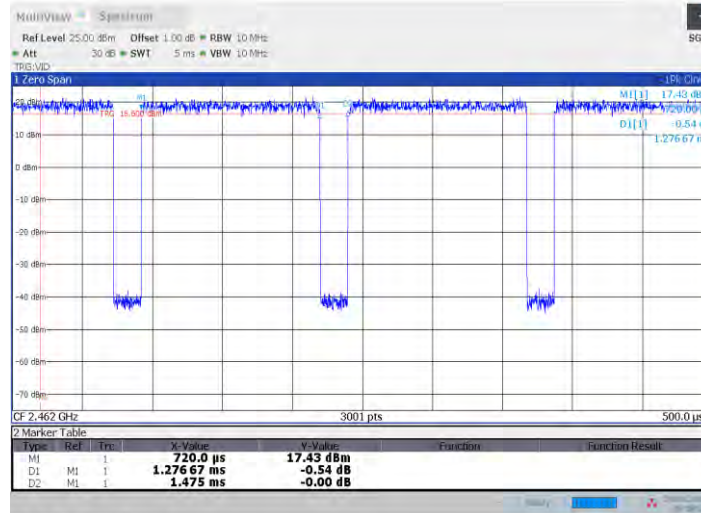
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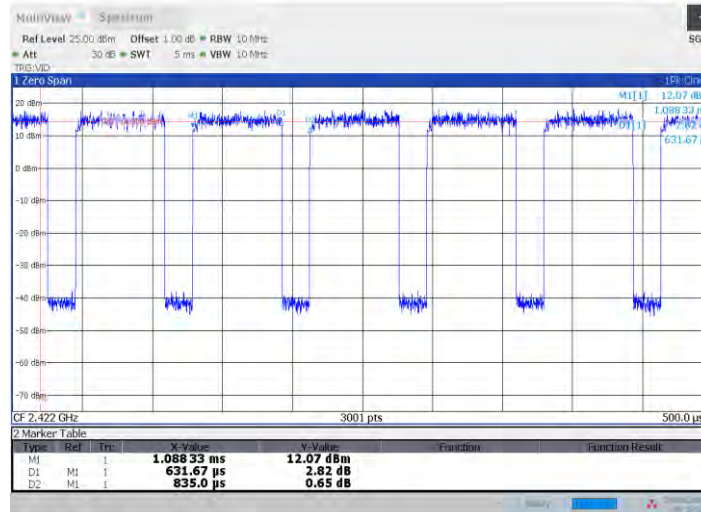
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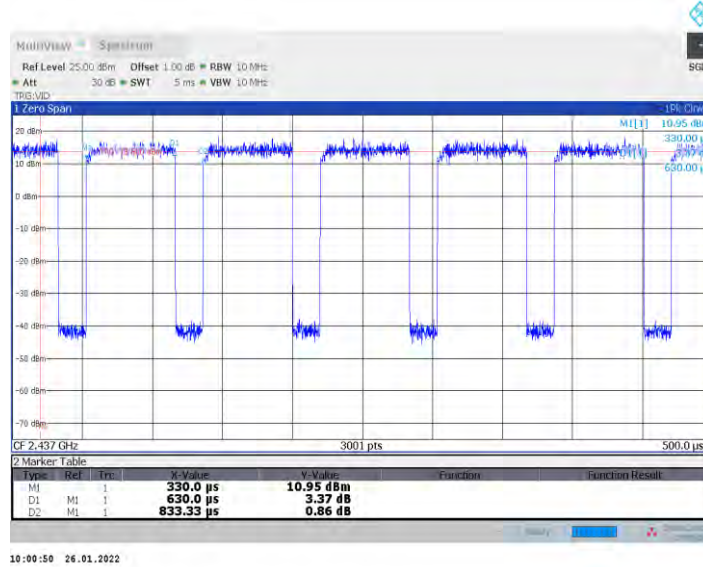
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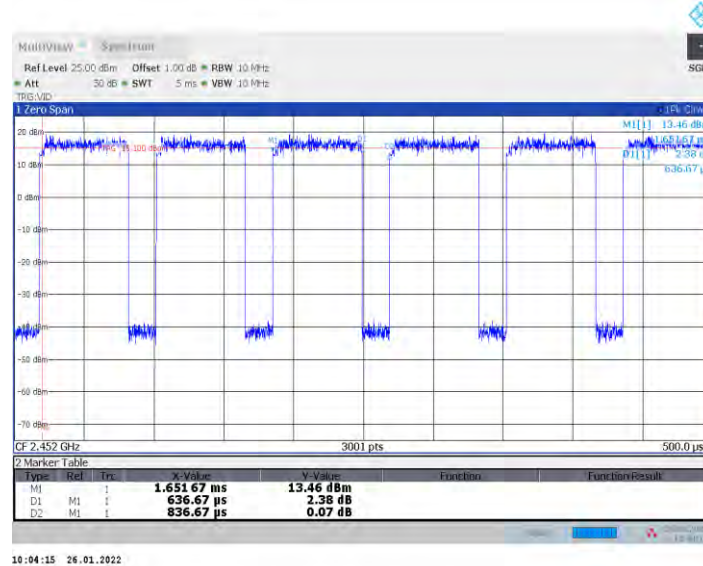
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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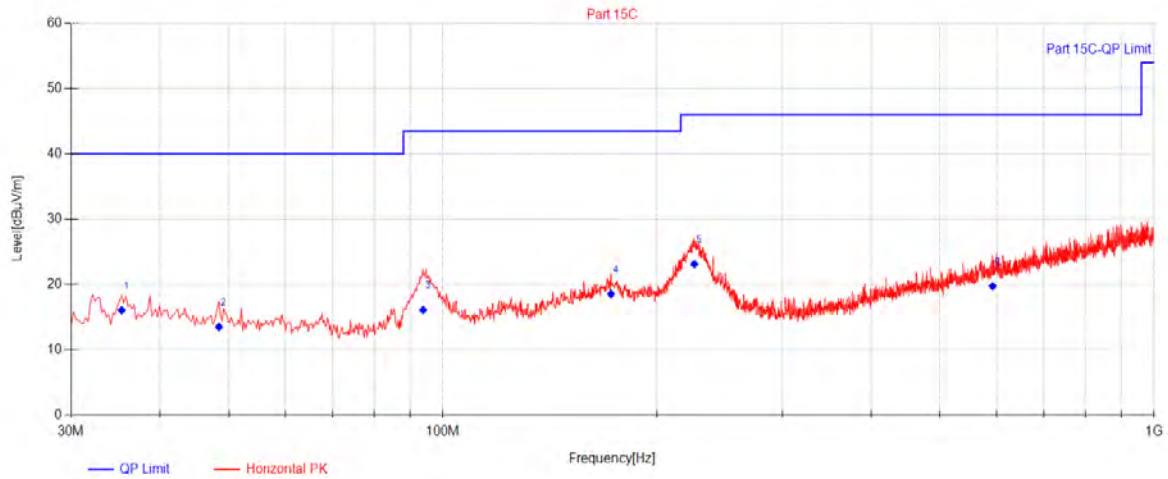
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.335	39.12	-23.04	16.08	40.00	23.92	189	155	Horizontal
2	48.43	36.12	-22.59	13.53	40.00	26.47	142	20	Horizontal
3	93.7775	42.59	-26.47	16.12	43.50	27.38	154	280	Horizontal
4	172.3475	39.26	-20.69	18.57	43.50	24.93	123	10	Horizontal
5	225.6975	47.12	-23.97	23.15	46.00	22.85	266	218	Horizontal
6	592.8425	33.88	-14.13	19.75	46.00	26.25	188	249	Horizontal

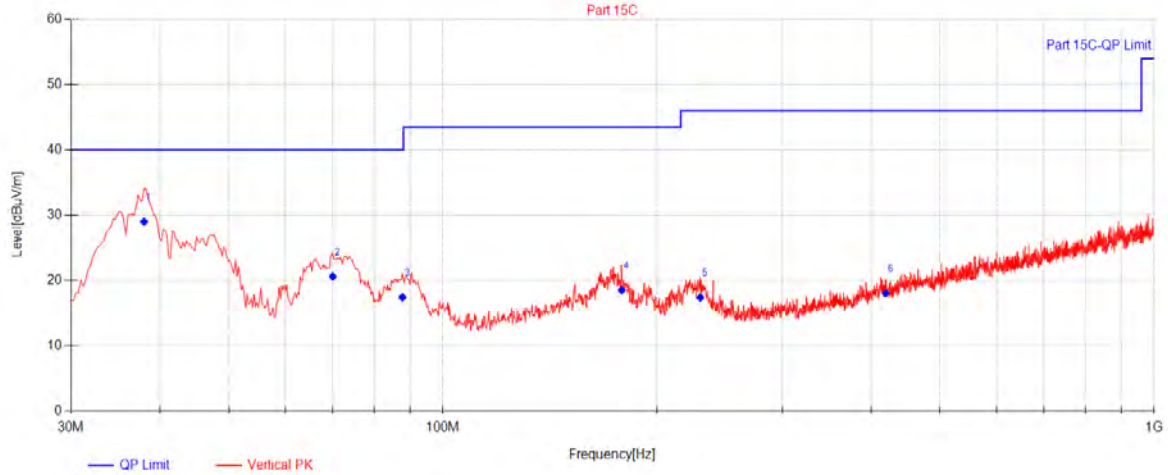


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Worst case Mode: 11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.0025	51.56	-22.56	29.00	40.00	11.00	182	188	Vertical
2	70.0125	46.33	-25.70	20.63	40.00	19.37	136	220	Vertical
3	87.715	44.29	-26.84	17.45	40.00	22.55	184	115	Vertical
4	178.41	39.12	-20.58	18.54	43.50	24.96	124	220	Vertical
5	230.0625	41.12	-23.71	17.41	46.00	28.59	122	105	Vertical
6	419.455	35.87	-17.80	18.07	46.00	27.93	170	209	Vertical



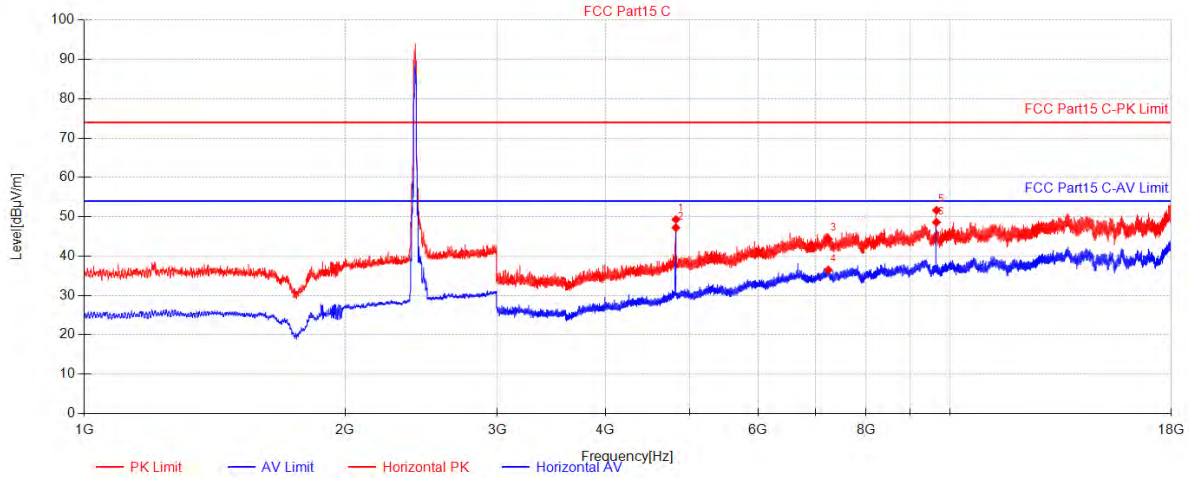
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Transmitter emission above 1GHz

802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	62.47	-13.15	49.32	74.00	24.68	165	356	Horizontal
2	4824.5	60.37	-13.15	47.22	54.00	6.78	185	331	Horizontal
3	7236	51.31	-6.96	44.35	74.00	29.65	236	207	Horizontal
4	7236	43.45	-6.96	36.49	54.00	17.51	256	257	Horizontal
5	9648	52.82	-1.17	51.65	74.00	22.35	254	233	Horizontal
6	9648.5	49.76	-1.17	48.59	54.00	5.41	119	247	Horizontal

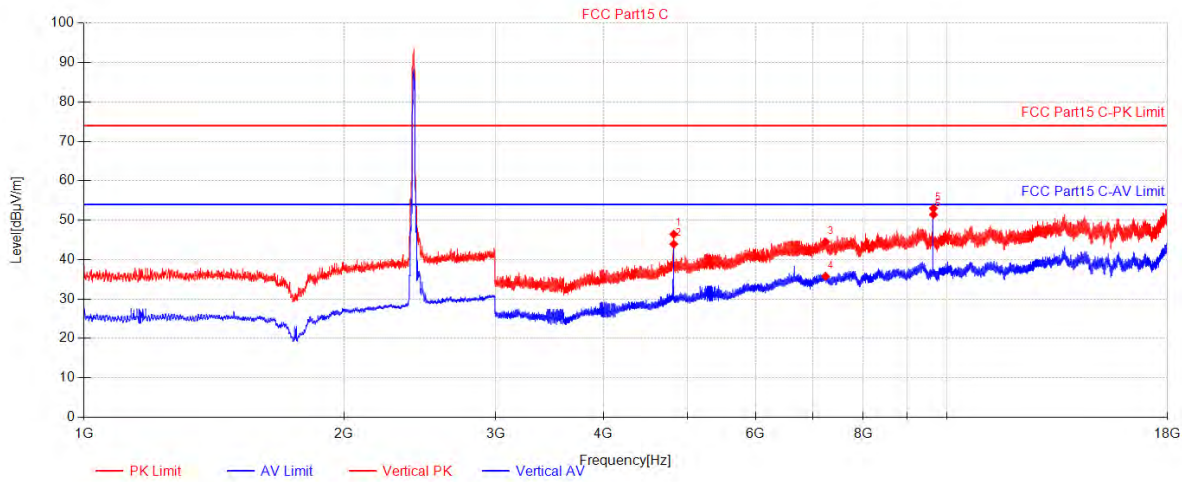


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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	59.61	-13.15	46.46	74.00	27.54	254	255	Vertical
2	4824.5	57.09	-13.15	43.94	54.00	10.06	274	280	Vertical
3	7236	51.46	-6.96	44.50	74.00	29.50	266	27	Vertical
4	7236	42.72	-6.96	35.76	54.00	18.24	120	28	Vertical
5	9648	54.17	-1.17	53.00	74.00	21.00	285	230	Vertical
6	9648.5	52.61	-1.17	51.44	54.00	2.56	230	230	Vertical



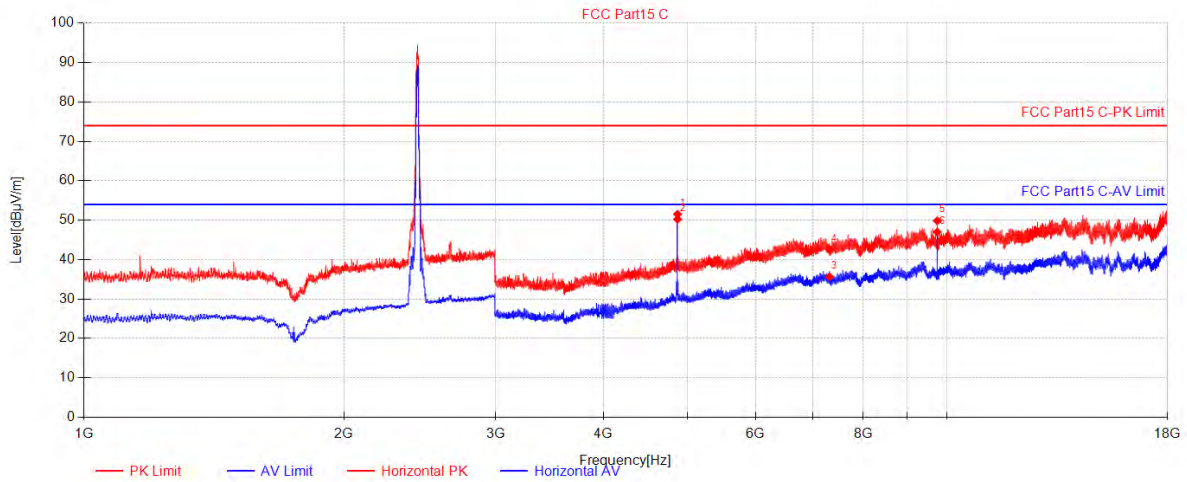
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802.11b_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	64.53	-13.01	51.52	74.00	22.48	265	332	Horizontal
2	4874.5	63.24	-13.00	50.24	54.00	3.76	185	332	Horizontal
3	7311	42.83	-7.17	35.66	54.00	18.34	265	280	Horizontal
4	7311	49.71	-7.17	42.54	74.00	31.46	230	306	Horizontal
5	9748	51.06	-1.18	49.88	74.00	24.12	152	256	Horizontal
6	9748.5	48.18	-1.18	47.00	54.00	7.00	245	256	Horizontal

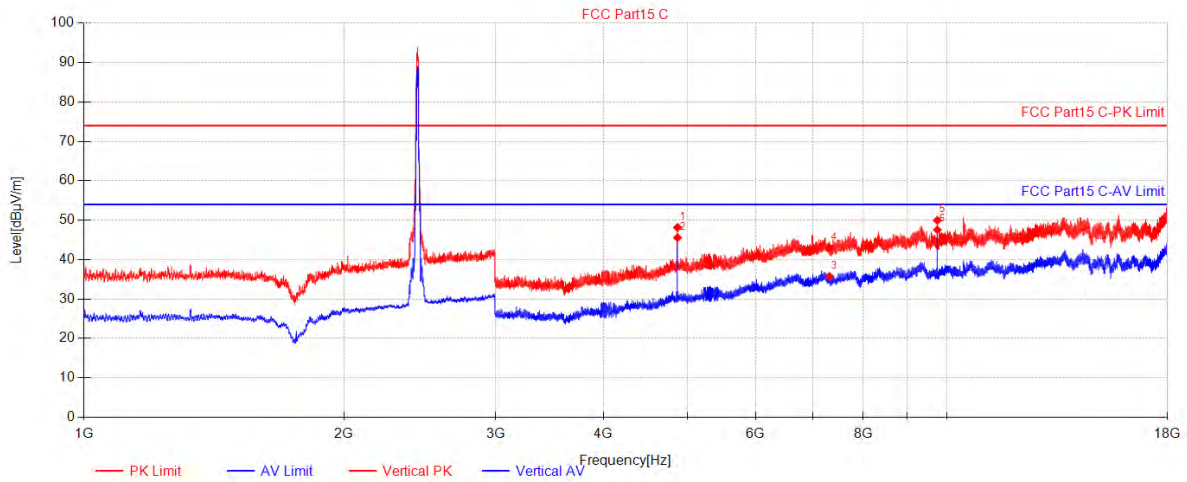


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802.11b_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	61.17	-13.01	48.16	74.00	25.84	245	281	Vertical
2	4874.5	58.54	-13.00	45.54	54.00	8.46	185	281	Vertical
3	7311	42.92	-7.17	35.75	54.00	18.25	244	130	Vertical
4	7311	50.12	-7.17	42.95	74.00	31.05	269	24	Vertical
5	9748	51.14	-1.18	49.96	74.00	24.04	236	231	Vertical
6	9748.5	48.74	-1.18	47.56	54.00	6.44	203	231	Vertical

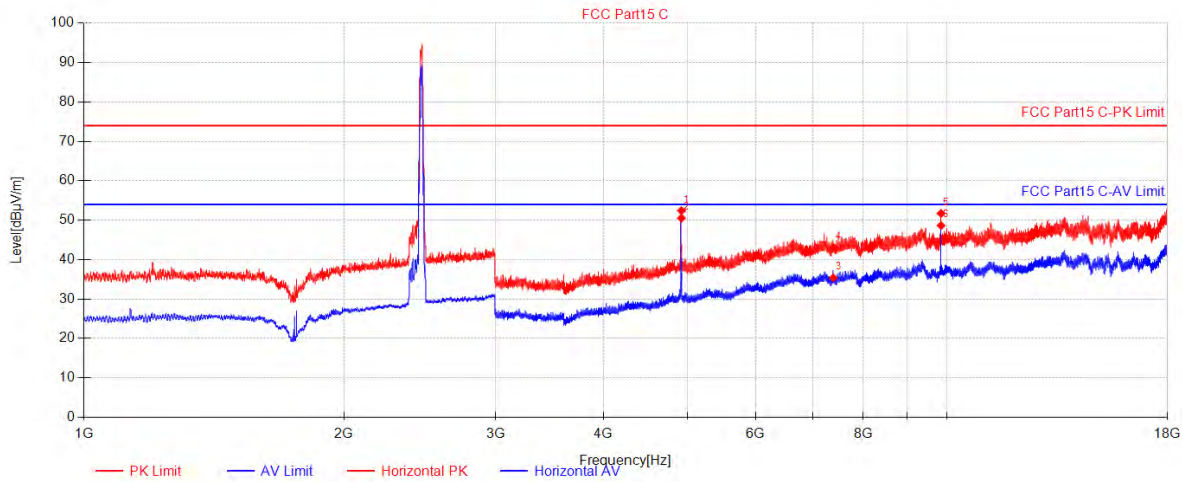


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	65.30	-12.89	52.41	74.00	21.59	265	357	Horizontal
2	4924.5	63.44	-12.89	50.55	54.00	3.45	214	1	Horizontal
3	7386	42.34	-6.96	35.38	54.00	18.62	258	132	Horizontal
4	7386	50.02	-6.96	43.06	74.00	30.94	285	181	Horizontal
5	9848	52.84	-1.12	51.72	74.00	22.28	236	334	Horizontal
6	9848.5	49.76	-1.12	48.64	54.00	5.36	223	257	Horizontal

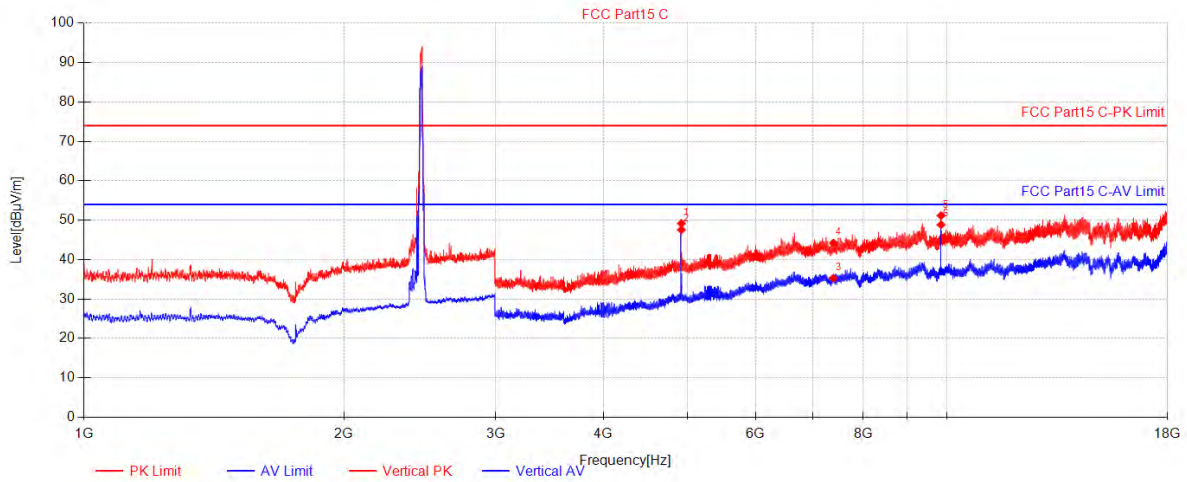


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	62.06	-12.89	49.17	74.00	24.83	296	305	Vertical
2	4924.5	60.46	-12.89	47.57	54.00	6.43	178	305	Vertical
3	7386	42.24	-6.96	35.28	54.00	18.72	196	6	Vertical
4	7386	51.18	-6.96	44.22	74.00	29.78	213	356	Vertical
5	9848	52.28	-1.12	51.16	74.00	22.84	300	308	Vertical
6	9848.5	49.97	-1.12	48.85	54.00	5.15	157	254	Vertical

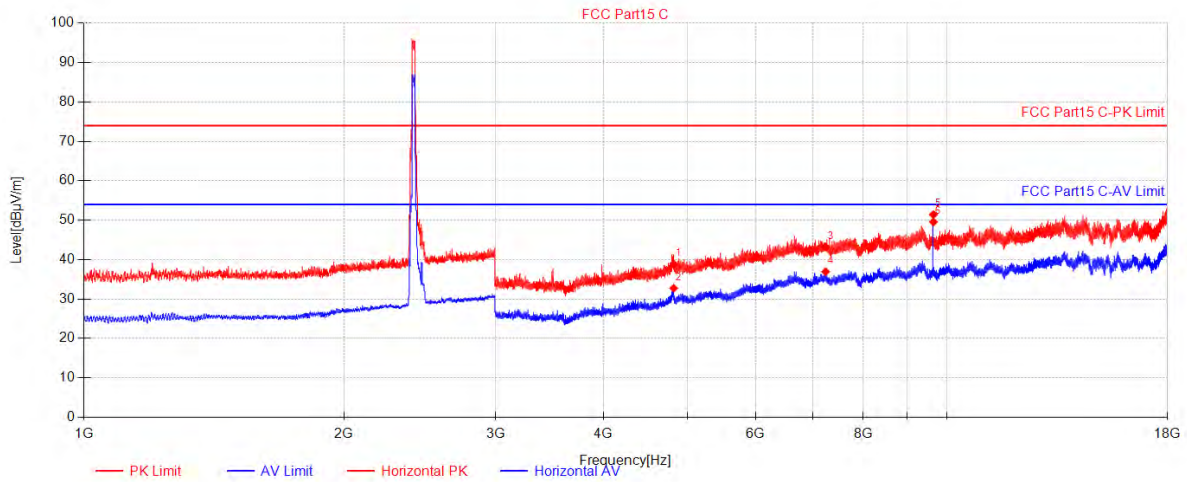


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	52.07	-13.15	38.92	74.00	35.08	265	56	Horizontal
2	4824	45.89	-13.15	32.74	54.00	21.26	174	254	Horizontal
3	7236	50.18	-6.96	43.22	74.00	30.78	185	52	Horizontal
4	7236	43.89	-6.96	36.93	54.00	17.07	285	356	Horizontal
5	9648	52.59	-1.17	51.42	74.00	22.58	236	233	Horizontal
6	9648.5	50.73	-1.17	49.56	54.00	4.44	222	258	Horizontal

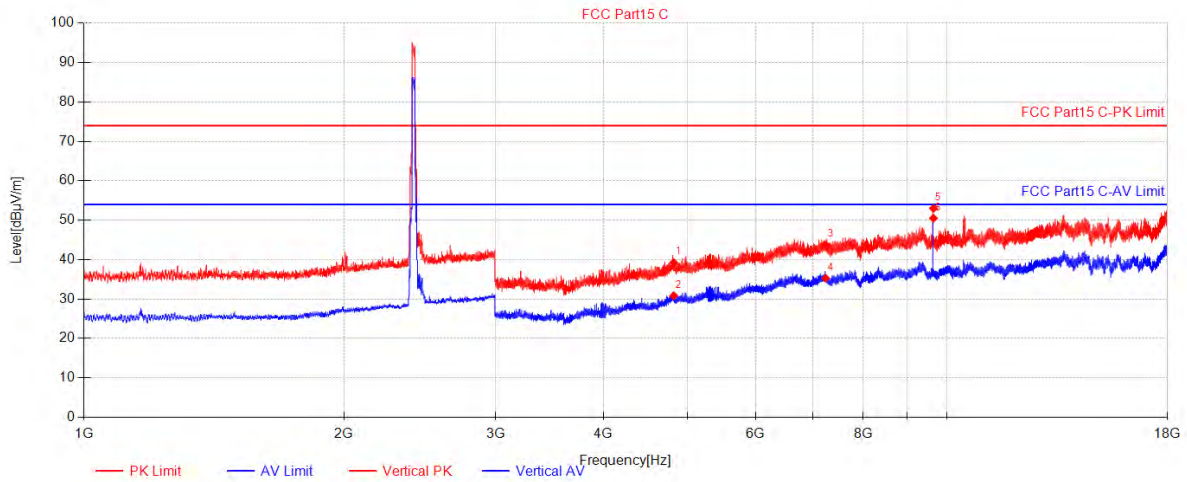


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	52.37	-13.15	39.22	74.00	34.78	185	266	Vertical
2	4824	43.99	-13.15	30.84	54.00	23.16	142	304	Vertical
3	7236	50.69	-6.96	43.73	74.00	30.27	174	27	Vertical
4	7236	42.23	-6.96	35.27	54.00	18.73	285	129	Vertical
5	9648	54.16	-1.17	52.99	74.00	21.01	310	227	Vertical
6	9648.5	51.67	-1.17	50.50	54.00	3.50	154	254	Vertical



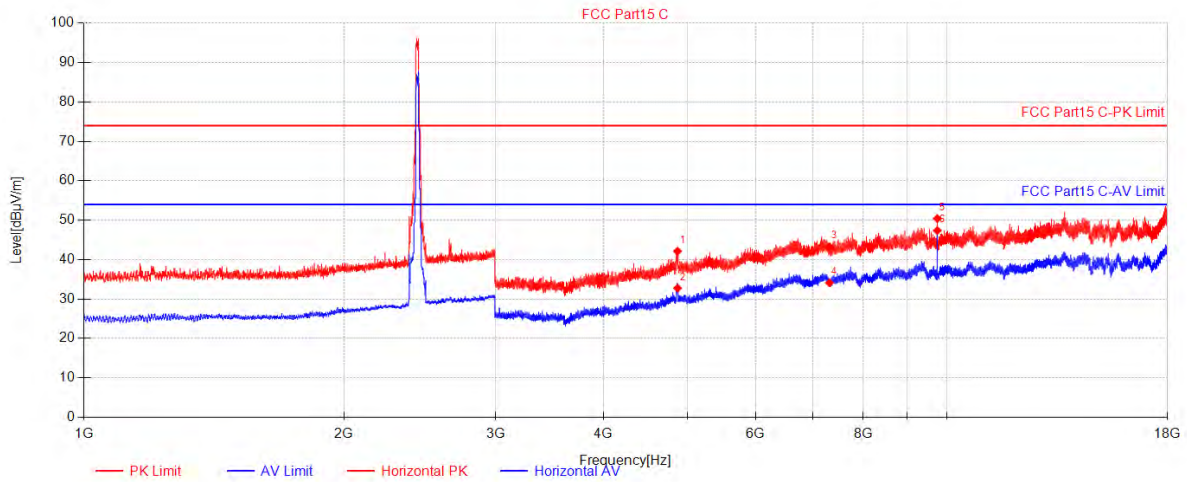
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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	55.14	-13.01	42.13	74.00	31.87	185	265	Horizontal
2	4874	45.76	-13.01	32.75	54.00	21.25	288	308	Horizontal
3	7311	50.46	-7.17	43.29	74.00	30.71	230	203	Horizontal
4	7311	41.27	-7.17	34.10	54.00	19.90	296	333	Horizontal
5	9748	51.59	-1.18	50.41	74.00	23.59	245	260	Horizontal
6	9748.5	48.54	-1.18	47.36	54.00	6.64	125	260	Horizontal

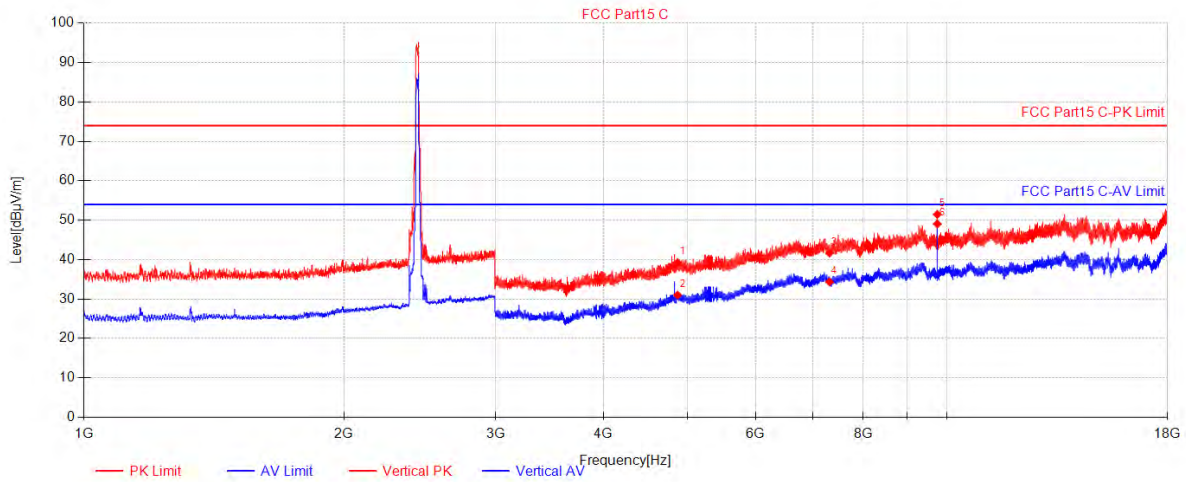


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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	52.21	-13.01	39.20	74.00	34.80	145	65	Vertical
2	4874	44.02	-13.01	31.01	54.00	22.99	102	208	Vertical
3	7311	48.82	-7.17	41.65	74.00	32.35	336	25	Vertical
4	7311	41.52	-7.17	34.35	54.00	19.65	208	259	Vertical
5	9748	52.66	-1.18	51.48	74.00	22.52	265	233	Vertical
6	9748.5	50.21	-1.18	49.03	54.00	4.97	285	233	Vertical

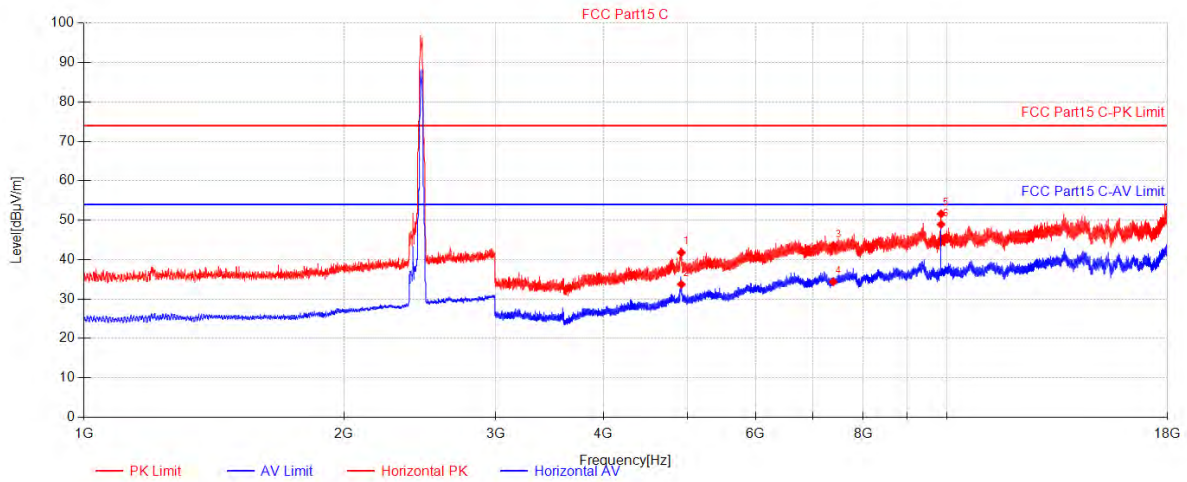


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	54.66	-12.89	41.77	74.00	32.23	321	8	Horizontal
2	4924	46.62	-12.89	33.73	54.00	20.27	203	255	Horizontal
3	7386	50.57	-6.96	43.61	74.00	30.39	256	154	Horizontal
4	7386	41.33	-6.96	34.37	54.00	19.63	156	24	Horizontal
5	9848	52.71	-1.12	51.59	74.00	22.41	341	231	Horizontal
6	9848.5	50.05	-1.12	48.93	54.00	5.07	281	257	Horizontal

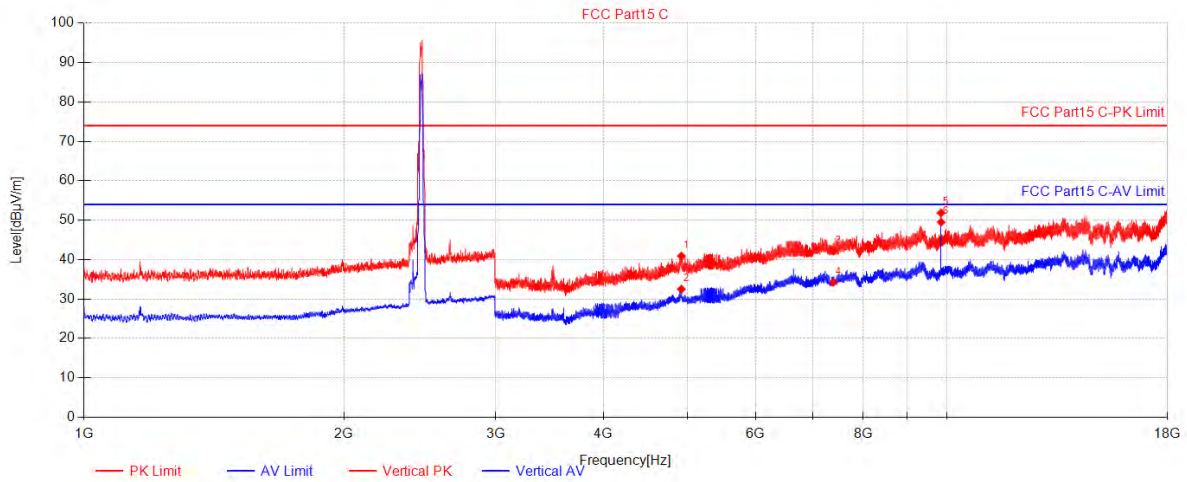


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	53.78	-12.89	40.89	74.00	33.11	230	53	Vertical
2	4924	45.39	-12.89	32.50	54.00	21.50	204	305	Vertical
3	7386	49.11	-6.96	42.15	74.00	31.85	258	52	Vertical
4	7386	41.21	-6.96	34.25	54.00	19.75	174	166	Vertical
5	9848	52.97	-1.12	51.85	74.00	22.15	145	228	Vertical
6	9848.5	50.62	-1.12	49.50	54.00	4.50	261	228	Vertical

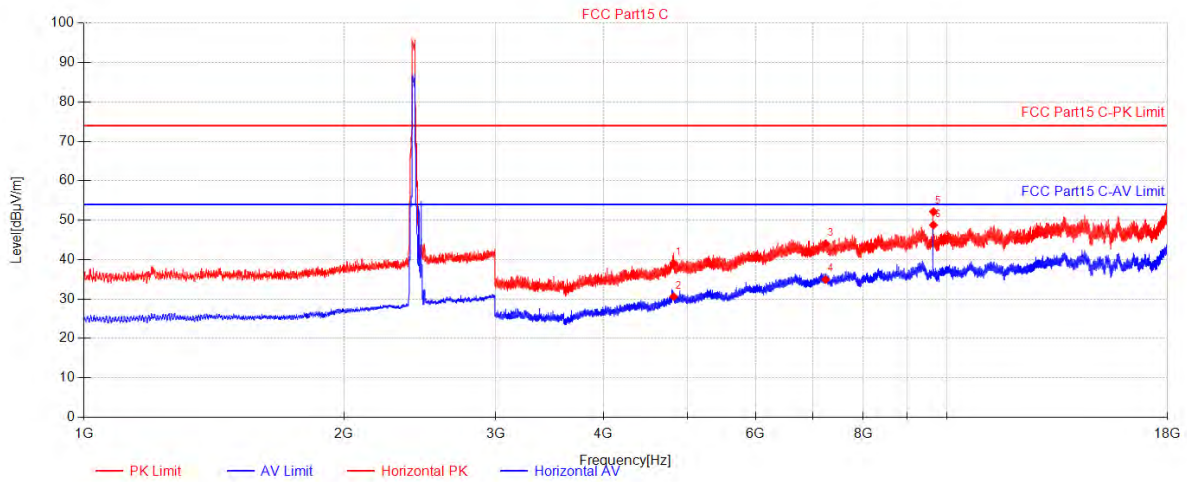


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	52.14	-13.15	38.99	74.00	35.01	321	241	Horizontal
2	4824	43.76	-13.15	30.61	54.00	23.39	130	99	Horizontal
3	7236	50.99	-6.96	44.03	74.00	29.97	284	181	Horizontal
4	7236	41.90	-6.96	34.94	54.00	19.06	155	330	Horizontal
5	9648	53.31	-1.17	52.14	74.00	21.86	256	254	Horizontal
6	9648.5	49.95	-1.17	48.78	54.00	5.22	150	254	Horizontal

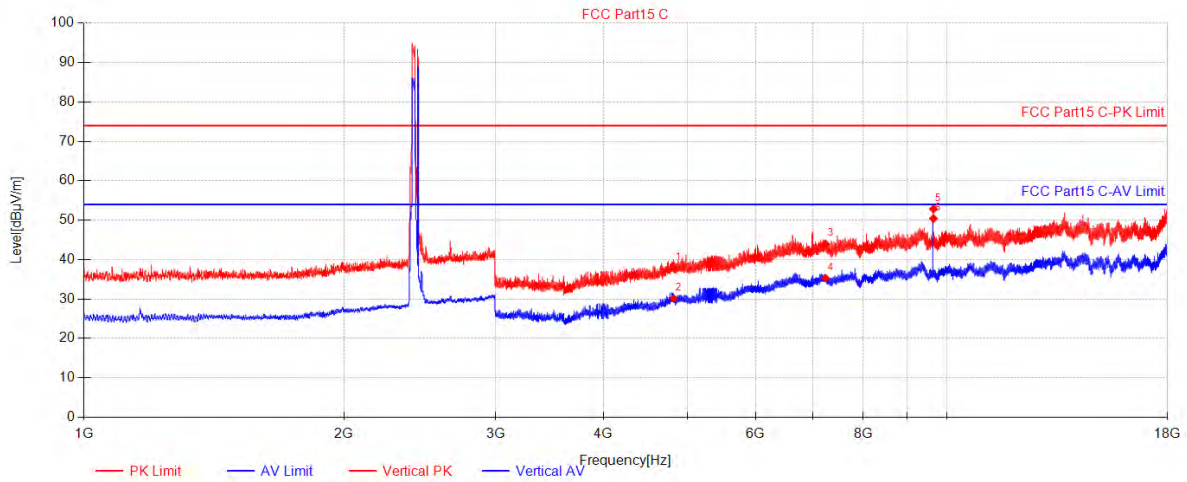


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	51.04	-13.15	37.89	74.00	36.11	226	357	Vertical
2	4824	43.28	-13.15	30.13	54.00	23.87	285	265	Vertical
3	7236	50.89	-6.96	43.93	74.00	30.07	299	256	Vertical
4	7236	42.23	-6.96	35.27	54.00	18.73	145	256	Vertical
5	9648	54.02	-1.17	52.85	74.00	21.15	152	229	Vertical
6	9648.5	51.59	-1.17	50.42	54.00	3.58	265	229	Vertical

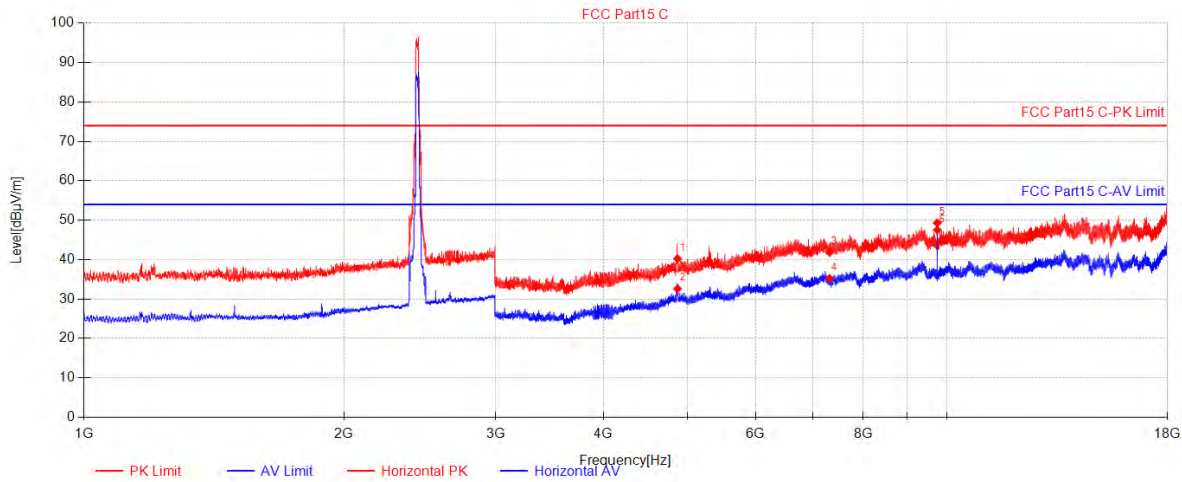


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802.11n20_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	53.24	-13.01	40.23	74.00	33.77	221	111	Horizontal
2	4874	45.61	-13.01	32.60	54.00	21.40	185	203	Horizontal
3	7311	49.05	-7.17	41.88	74.00	32.12	144	206	Horizontal
4	7311	42.40	-7.17	35.23	54.00	18.77	296	356	Horizontal
5	9748	50.49	-1.18	49.31	74.00	24.69	265	256	Horizontal
6	9748.5	48.69	-1.18	47.51	54.00	6.49	245	256	Horizontal

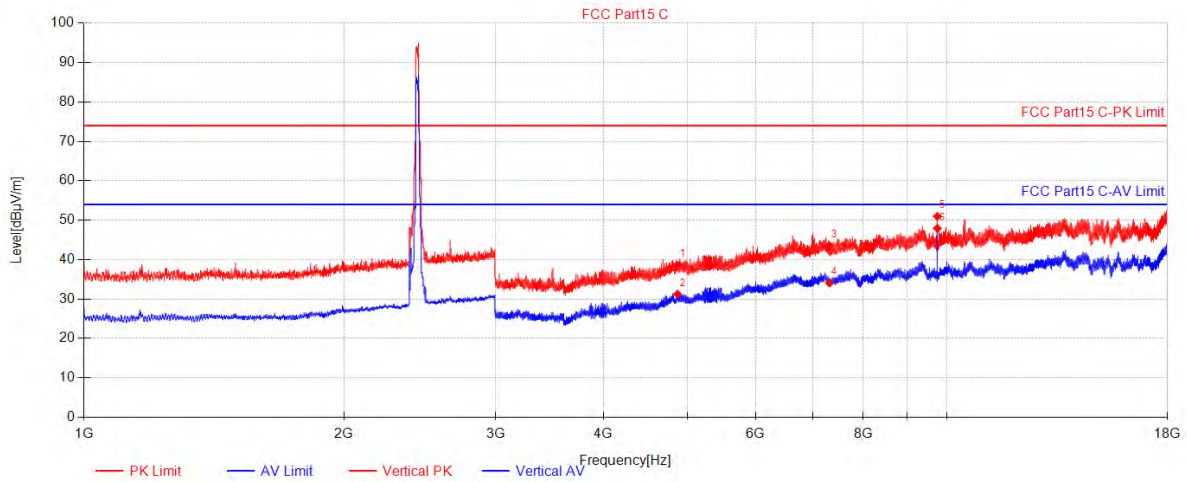


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	51.59	-13.01	38.58	74.00	35.42	301	276	Vertical
2	4874	44.25	-13.01	31.24	54.00	22.76	284	276	Vertical
3	7311	50.69	-7.17	43.52	74.00	30.48	266	302	Vertical
4	7311	41.23	-7.17	34.06	54.00	19.94	210	228	Vertical
5	9748	52.15	-1.18	50.97	74.00	23.03	199	226	Vertical
6	9748.5	49.12	-1.18	47.94	54.00	6.06	310	251	Vertical

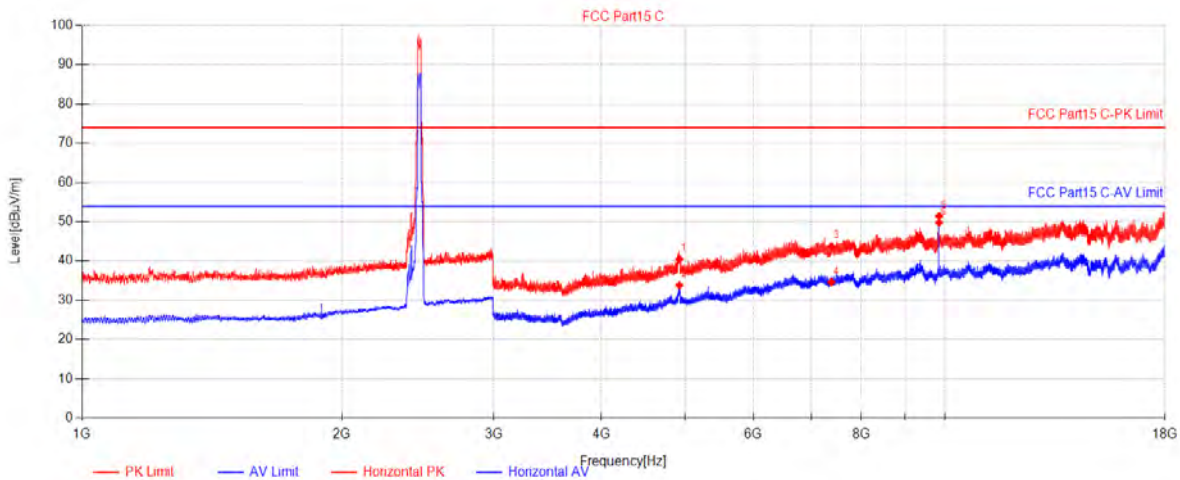


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Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	53.37	-12.89	40.48	74.00	33.52	210	6	Horizontal
2	4924	46.69	-12.89	33.80	54.00	20.20	145	357	Horizontal
3	7386	50.68	-6.96	43.72	74.00	30.28	269	48	Horizontal
4	7386	41.56	-6.96	34.60	54.00	19.40	321	1	Horizontal
5	9848	52.52	-1.12	51.40	74.00	22.60	162	256	Horizontal
6	9848.5	50.88	-1.12	49.76	54.00	4.24	285	256	Horizontal

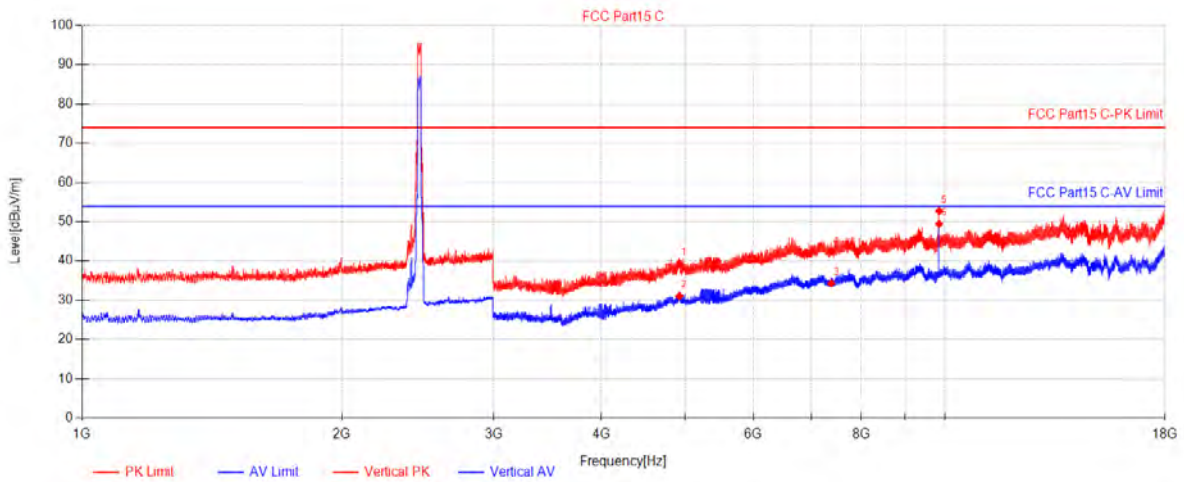


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	52.31	-12.89	39.42	74.00	34.58	150	76	Vertical
2	4924	43.97	-12.89	31.08	54.00	22.92	286	330	Vertical
3	7386	41.25	-6.96	34.29	54.00	19.71	310	1	Vertical
4	7386	49.34	-6.96	42.38	74.00	31.62	204	51	Vertical
5	9848	53.85	-1.12	52.73	74.00	21.27	256	229	Vertical
6	9848.5	50.56	-1.12	49.44	54.00	4.56	324	229	Vertical

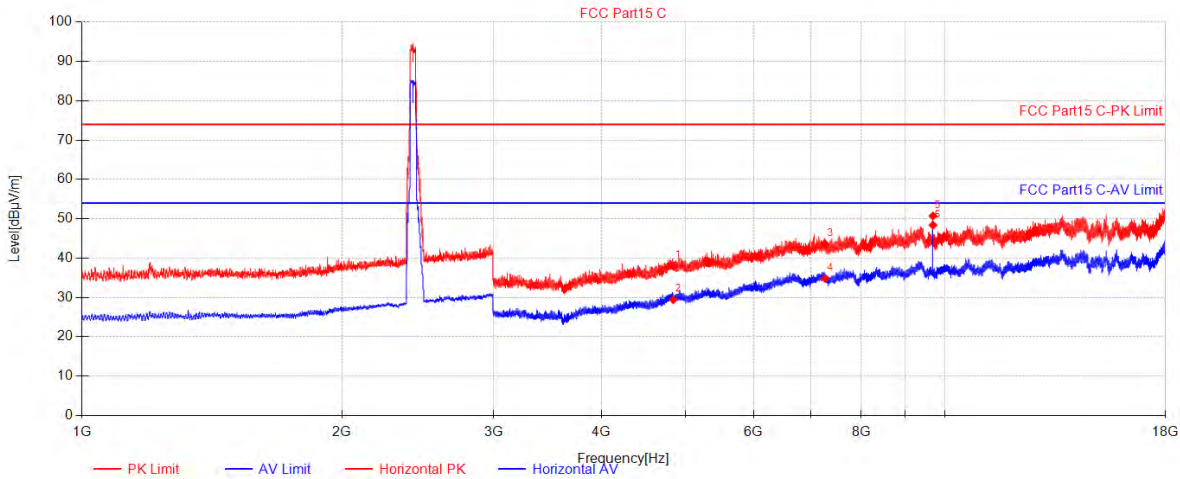


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	51.07	-13.09	37.98	74.00	36.02	185	357	Horizontal
2	4844	42.51	-13.09	29.42	54.00	24.58	256	26	Horizontal
3	7266	50.66	-7.07	43.59	74.00	30.41	265	308	Horizontal
4	7266	41.88	-7.07	34.81	54.00	19.19	301	284	Horizontal
5	9688	51.82	-1.12	50.70	74.00	23.30	174	232	Horizontal
6	9688.5	49.50	-1.12	48.38	54.00	5.62	169	257	Horizontal

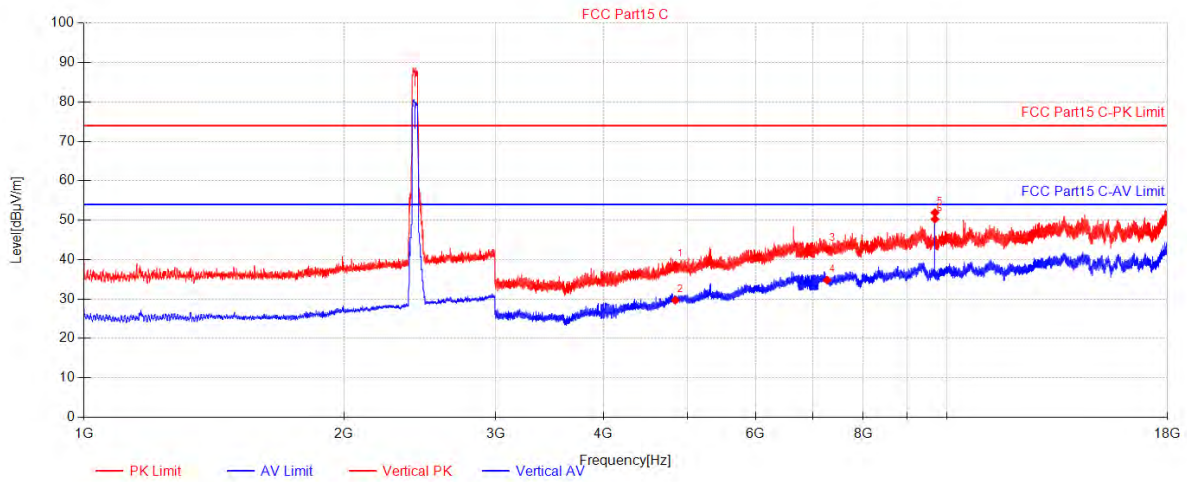


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	51.68	-13.09	38.59	74.00	35.41	285	244	Vertical
2	4844	42.79	-13.09	29.70	54.00	24.30	203	201	Vertical
3	7266	49.74	-7.07	42.67	74.00	31.33	169	280	Vertical
4	7266	41.87	-7.07	34.80	54.00	19.20	174	4	Vertical
5	9688	53.04	-1.12	51.92	74.00	22.08	162	230	Vertical
6	9688.5	51.38	-1.12	50.26	54.00	3.74	354	257	Vertical

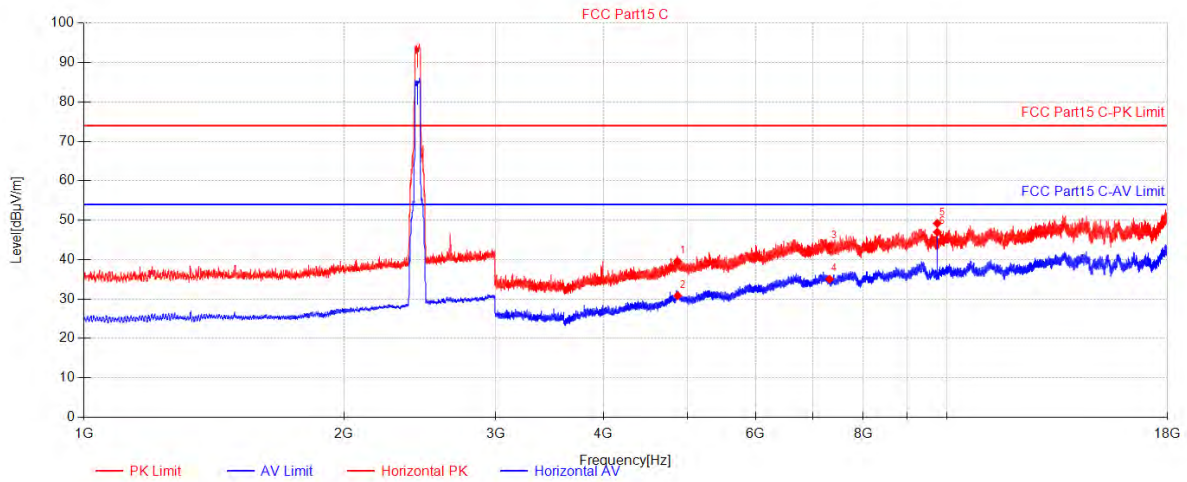


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802.11n40_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	52.58	-13.01	39.57	74.00	34.43	145	152	Horizontal
2	4874	43.85	-13.01	30.84	54.00	23.16	144	357	Horizontal
3	7311	50.58	-7.17	43.41	74.00	30.59	236	241	Horizontal
4	7311	42.21	-7.17	35.04	54.00	18.96	203	357	Horizontal
5	9748	50.36	-1.18	49.18	74.00	24.82	185	331	Horizontal
6	9748.5	48.13	-1.18	46.95	54.00	7.05	265	255	Horizontal

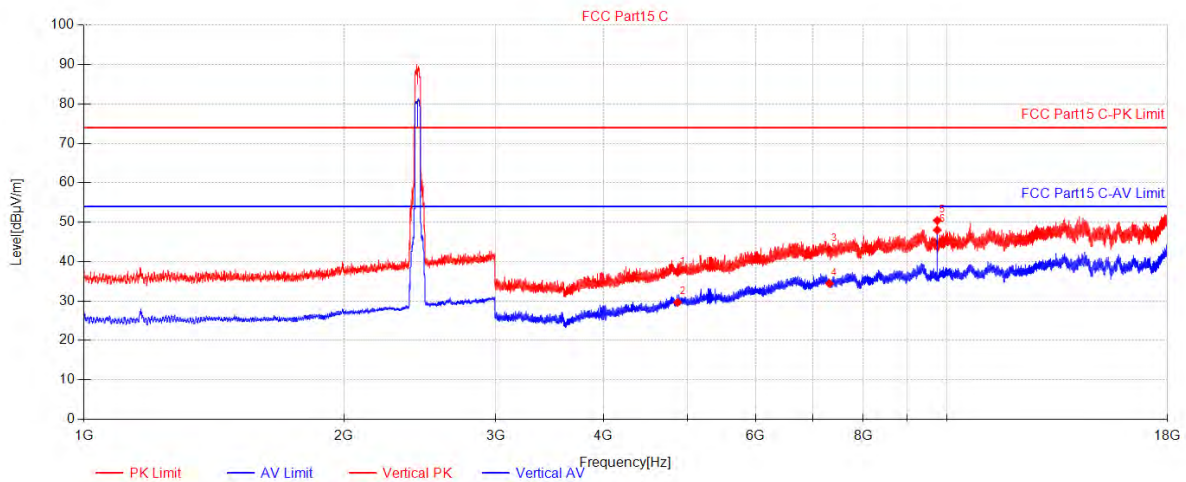


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802.11n40_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.27	-13.01	37.26	74.00	36.74	140	356	Vertical
2	4874	42.65	-13.01	29.64	54.00	24.36	285	283	Vertical
3	7311	50.21	-7.17	43.04	74.00	30.96	365	104	Vertical
4	7311	41.61	-7.17	34.44	54.00	19.56	174	79	Vertical
5	9748	51.62	-1.18	50.44	74.00	23.56	254	231	Vertical
6	9748.5	49.21	-1.18	48.03	54.00	5.97	200	231	Vertical

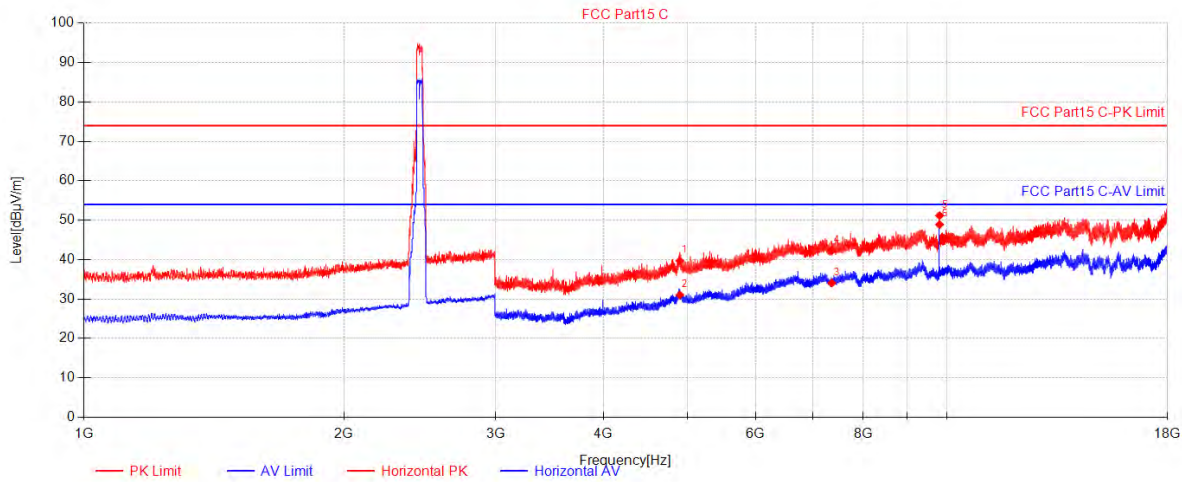


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	52.62	-12.92	39.70	74.00	34.30	144	102	Horizontal
2	4904	43.96	-12.92	31.04	54.00	22.96	145	241	Horizontal
3	7356	41.10	-7.05	34.05	54.00	19.95	280	56	Horizontal
4	7356	49.38	-7.05	42.33	74.00	31.67	290	56	Horizontal
5	9808	52.40	-1.24	51.16	74.00	22.84	165	253	Horizontal
6	9808.5	50.13	-1.24	48.89	54.00	5.11	230	253	Horizontal

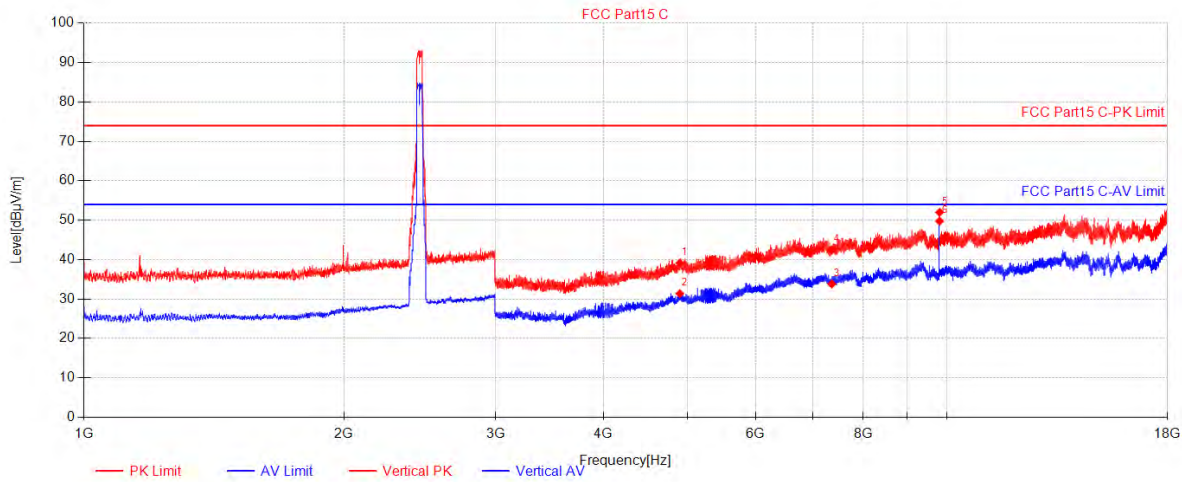


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	52.06	-12.92	39.14	74.00	34.86	213	90	Vertical
2	4904	44.30	-12.92	31.38	54.00	22.62	159	63	Vertical
3	7356	40.86	-7.05	33.81	54.00	20.19	203	331	Vertical
4	7356	49.50	-7.05	42.45	74.00	31.55	221	227	Vertical
5	9808	53.25	-1.24	52.01	74.00	21.99	265	227	Vertical
6	9808.5	50.99	-1.24	49.75	54.00	4.25	174	227	Vertical



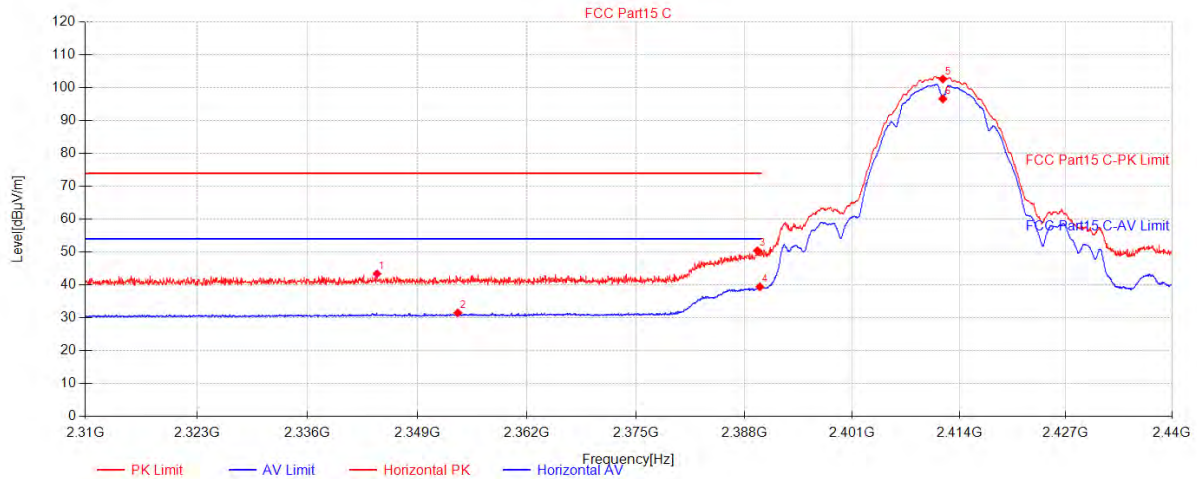
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Restricted bands around fundamental frequency

802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2344.19	40.27	3.09	43.36	74.00	30.64	120	85	Horizontal
2	2353.7667	28.41	3.08	31.49	54.00	22.51	120	85	Horizontal
3	2389.56	47.35	3.07	50.42	74.00	23.58	120	85	Horizontal
4	2389.8633	36.33	3.07	39.40	54.00	14.60	120	85	Horizontal
5	2412	99.51	3.15	102.66	---	---	120	85	Horizontal
6	2412	93.48	3.15	96.63	---	---	120	85	Horizontal

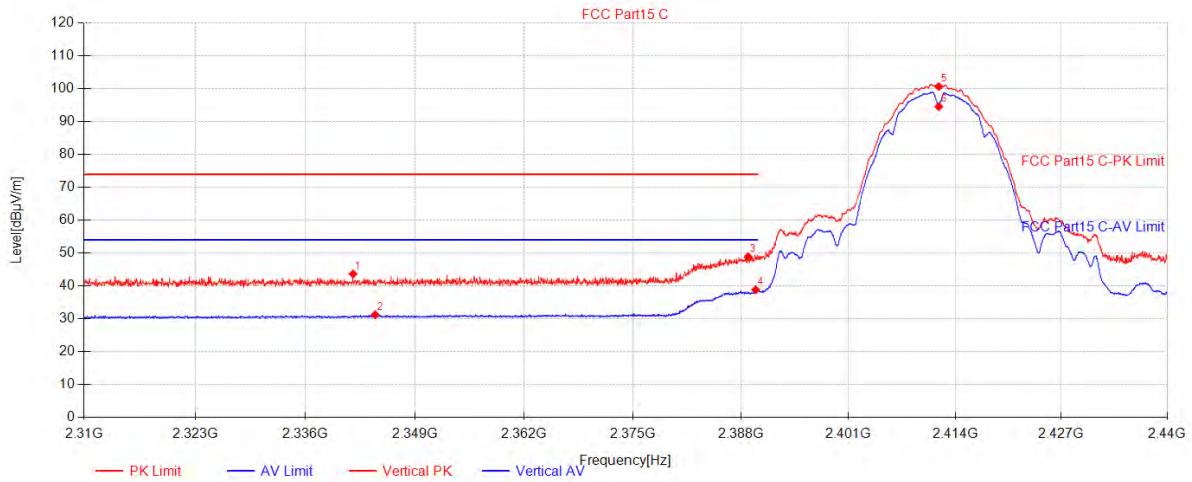


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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2341.6333	40.55	3.09	43.64	74.00	30.36	342	50	Vertical
2	2344.2333	28.13	3.09	31.22	54.00	22.78	342	50	Vertical
3	2388.8667	45.82	3.07	48.89	74.00	25.11	342	50	Vertical
4	2389.7767	35.74	3.07	38.81	54.00	15.19	342	50	Vertical
5	2412	97.53	3.15	100.68	---	---	342	50	Vertical
6	2412	91.44	3.15	94.59	---	---	342	50	Vertical

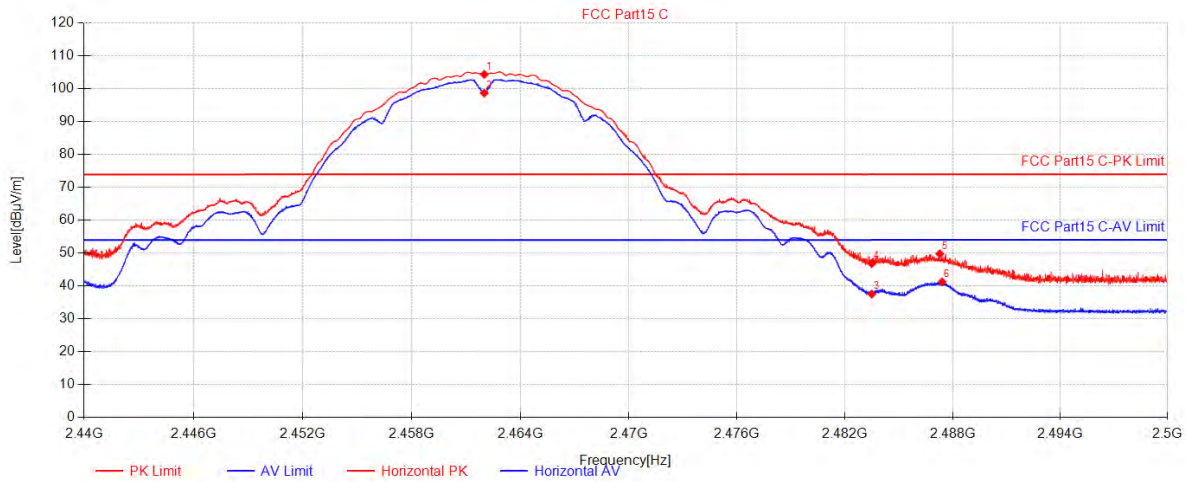


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	100.94	3.46	104.40	---	---	120	95	Horizontal
2	2462	95.26	3.46	98.72	---	---	120	95	Horizontal
3	2483.5	33.91	3.60	37.51	54.00	16.49	120	95	Horizontal
4	2483.5	43.18	3.60	46.78	74.00	27.22	120	95	Horizontal
5	2487.2875	46.15	3.62	49.77	74.00	24.23	120	95	Horizontal
6	2487.415	37.62	3.62	41.24	54.00	12.76	120	95	Horizontal

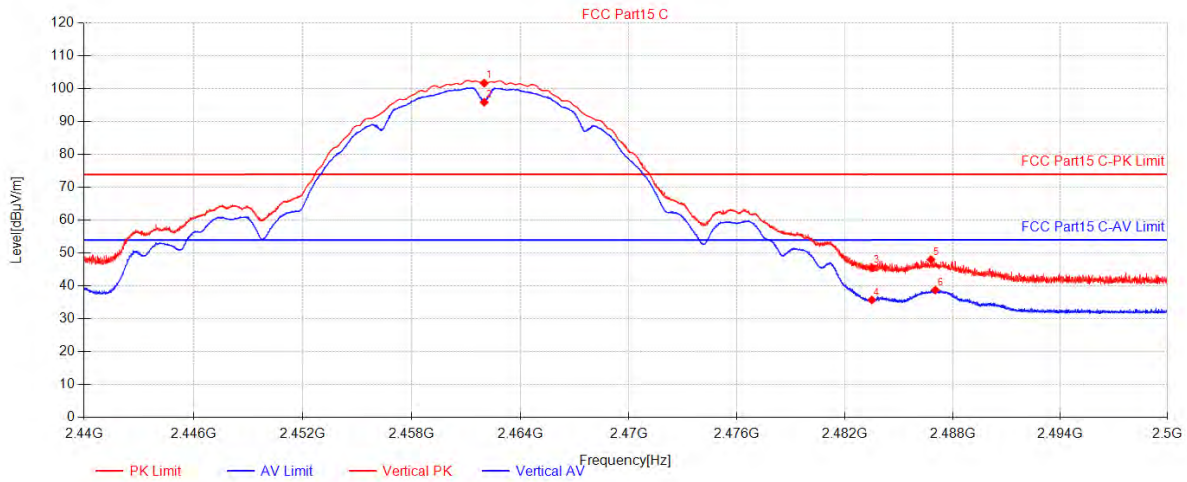


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	98.26	3.46	101.72	---	---	327	52	Vertical
2	2462	92.45	3.46	95.91	---	---	327	52	Vertical
3	2483.5	41.93	3.60	45.53	74.00	28.47	327	52	Vertical
4	2483.5	32.11	3.60	35.71	54.00	18.29	327	52	Vertical
5	2486.7925	44.39	3.62	48.01	74.00	25.99	327	52	Vertical
6	2487.04	35.11	3.62	38.73	54.00	15.27	327	52	Vertical

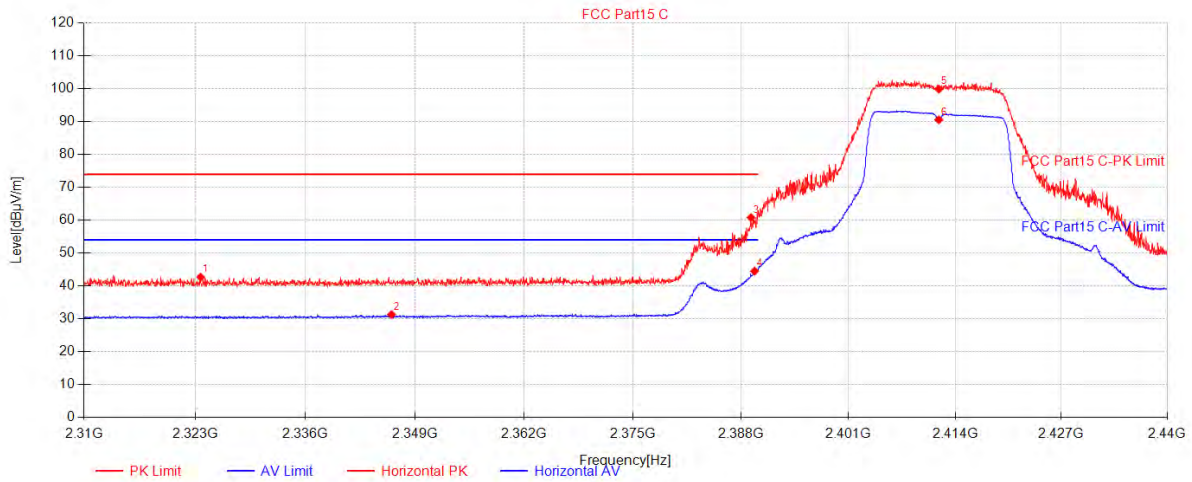


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2323.65	39.59	3.09	42.68	74.00	31.32	347	91	Horizontal
2	2346.1833	28.19	3.09	31.28	54.00	22.72	347	91	Horizontal
3	2389.2133	57.75	3.07	60.82	74.00	13.18	347	91	Horizontal
4	2389.6467	41.42	3.07	44.49	54.00	9.51	347	91	Horizontal
5	2412	96.76	3.15	99.91	---	---	347	91	Horizontal
6	2412	87.42	3.15	90.57	---	---	347	91	Horizontal

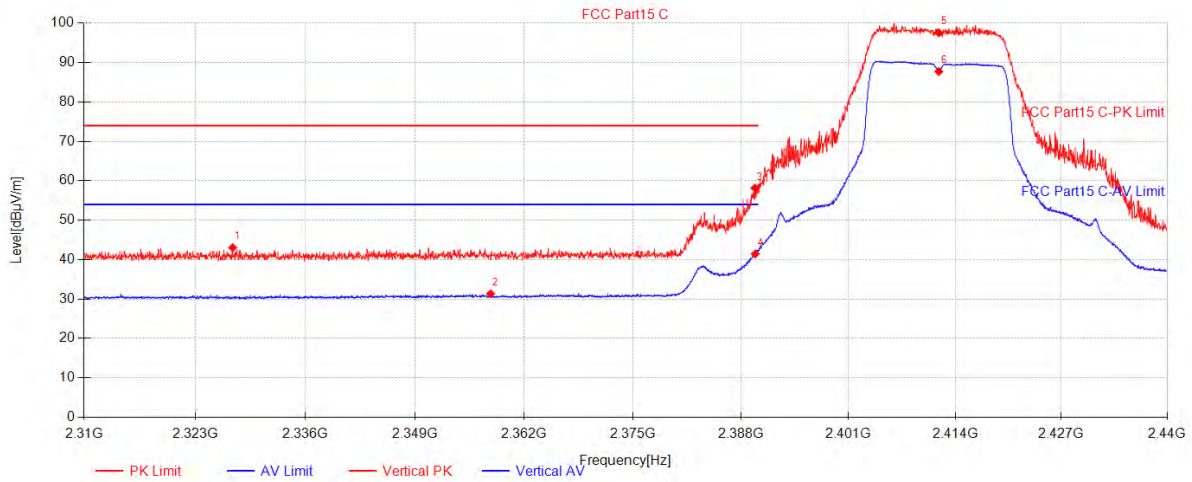


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2327.42	39.95	3.09	43.04	74.00	30.96	338	70	Vertical
2	2357.97	28.26	3.08	31.34	54.00	22.66	338	70	Vertical
3	2389.69	55.07	3.07	58.14	74.00	15.86	338	70	Vertical
4	2389.7333	38.39	3.07	41.46	54.00	12.54	338	70	Vertical
5	2412	94.41	3.15	97.56	---	---	338	70	Vertical
6	2412	84.59	3.15	87.74	---	---	338	70	Vertical

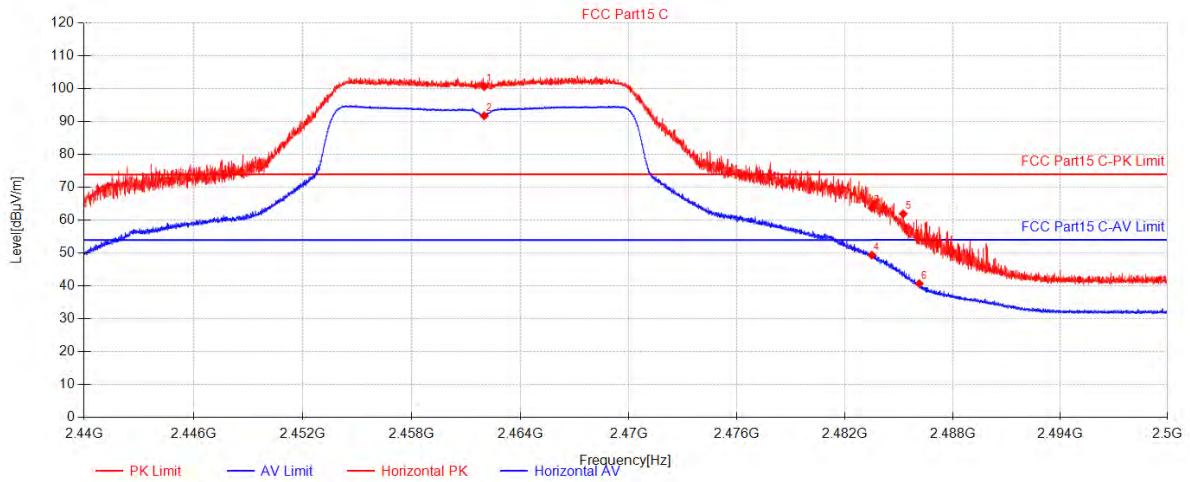


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	97.19	3.46	100.65	---	---	256	90	Horizontal
2	2462	88.32	3.46	91.78	---	---	256	90	Horizontal
3	2483.5	60.16	3.60	63.76	74.00	10.24	256	90	Horizontal
4	2483.5	45.77	3.60	49.37	54.00	4.63	256	90	Horizontal
5	2485.2475	58.33	3.61	61.94	74.00	12.06	256	90	Horizontal
6	2486.14	37.11	3.61	40.72	54.00	13.28	256	90	Horizontal

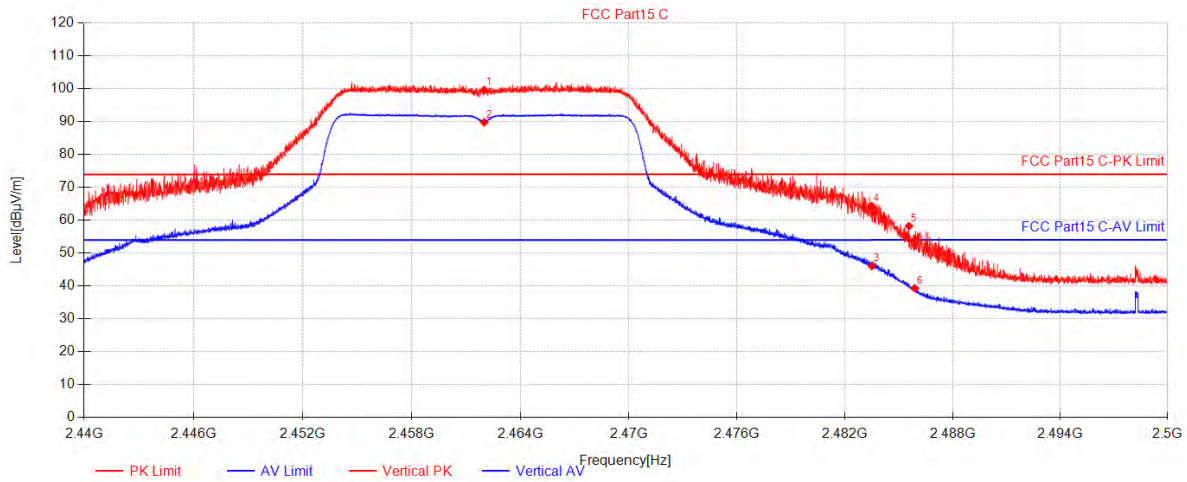


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	96.18	3.46	99.64	---	---	330	47	Vertical
2	2462	86.36	3.46	89.82	---	---	330	47	Vertical
3	2483.5	42.45	3.60	46.05	54.00	7.95	330	47	Vertical
4	2483.5	60.72	3.60	64.32	74.00	9.68	330	47	Vertical
5	2485.57	54.60	3.61	58.21	74.00	15.79	330	47	Vertical
6	2485.8925	35.67	3.61	39.28	54.00	14.72	330	47	Vertical

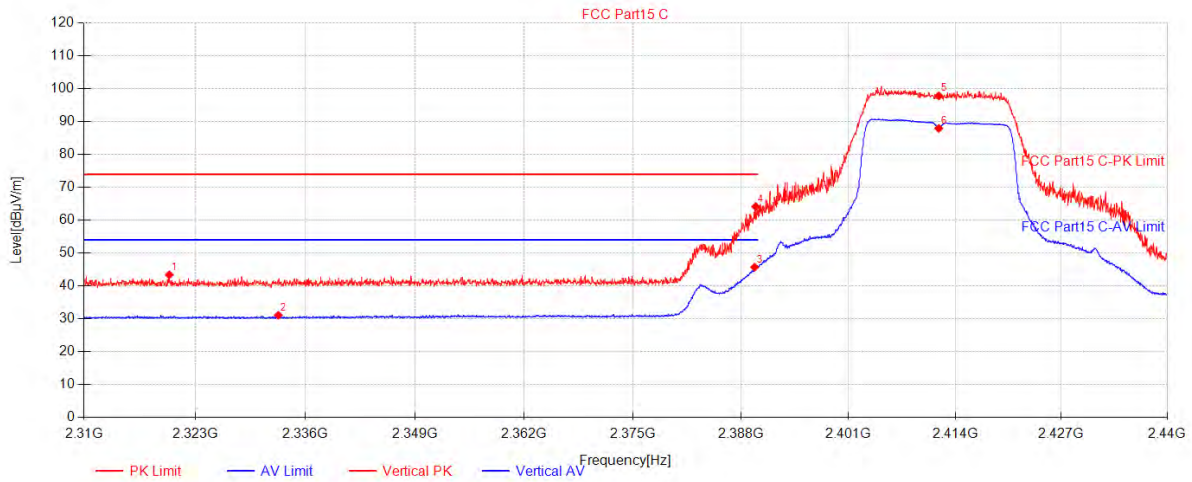


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2319.9667	40.29	3.09	43.38	74.00	30.62	350	47	Vertical
2	2332.7933	27.97	3.09	31.06	54.00	22.94	350	47	Vertical
3	2389.6467	42.62	3.07	45.69	54.00	8.31	350	47	Vertical
4	2389.7767	61.08	3.07	64.15	74.00	9.85	350	47	Vertical
5	2412	94.70	3.15	97.85	---	---	350	47	Vertical
6	2412	84.81	3.15	87.96	---	---	350	47	Vertical

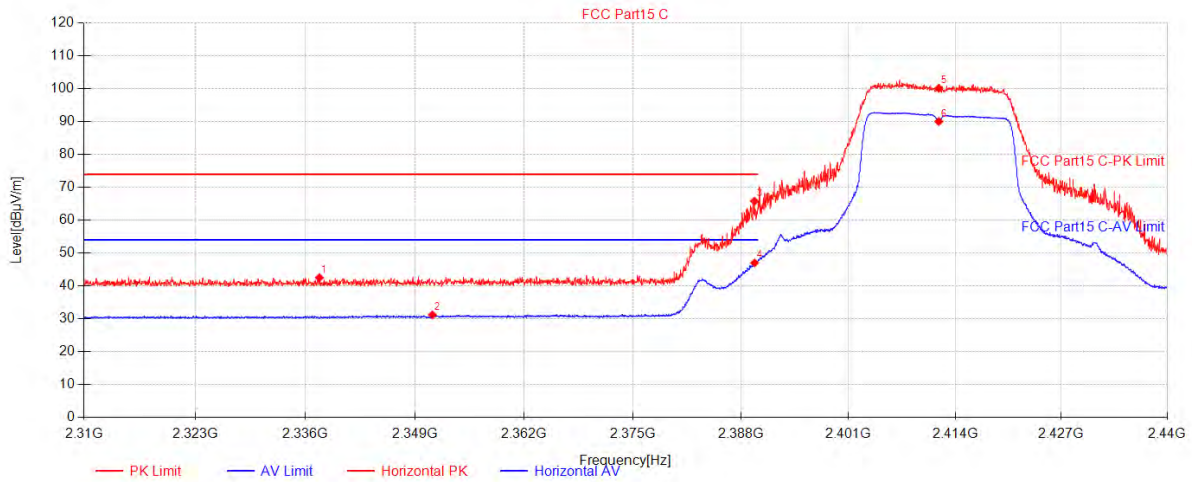


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2337.6467	39.41	3.09	42.50	74.00	31.50	350	94	Horizontal
2	2351.0367	28.10	3.08	31.18	54.00	22.82	350	94	Horizontal
3	2389.6467	62.73	3.07	65.80	74.00	8.20	350	94	Horizontal
4	2389.6467	43.94	3.07	47.01	54.00	6.99	350	94	Horizontal
5	2412	97.03	3.15	100.18	---	---	350	94	Horizontal
6	2412	86.92	3.15	90.07	---	---	350	94	Horizontal

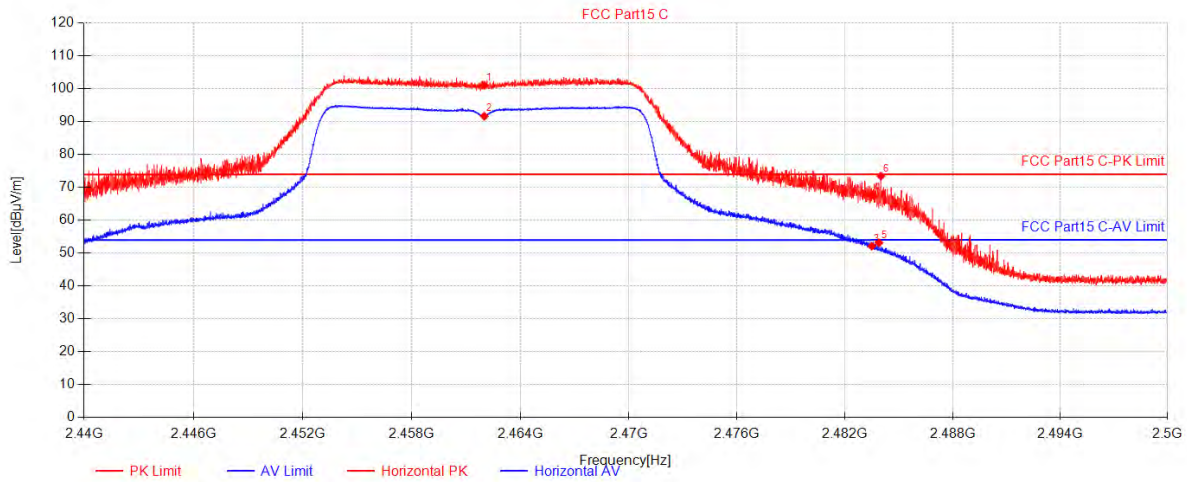


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	97.60	3.46	101.06	---	---	256	95	Horizontal
2	2462	88.20	3.46	91.66	---	---	256	95	Horizontal
3	2483.5000	48.49	3.60	52.09	54.00	1.91	256	95	Horizontal
4	2483.5	64.00	3.60	67.60	74.00	6.40	256	95	Horizontal
5	2483.8975	49.52	3.60	53.12	54.00	0.88	256	95	Horizontal
6	2484.0025	69.82	3.60	73.42	74.00	0.58	256	95	Horizontal



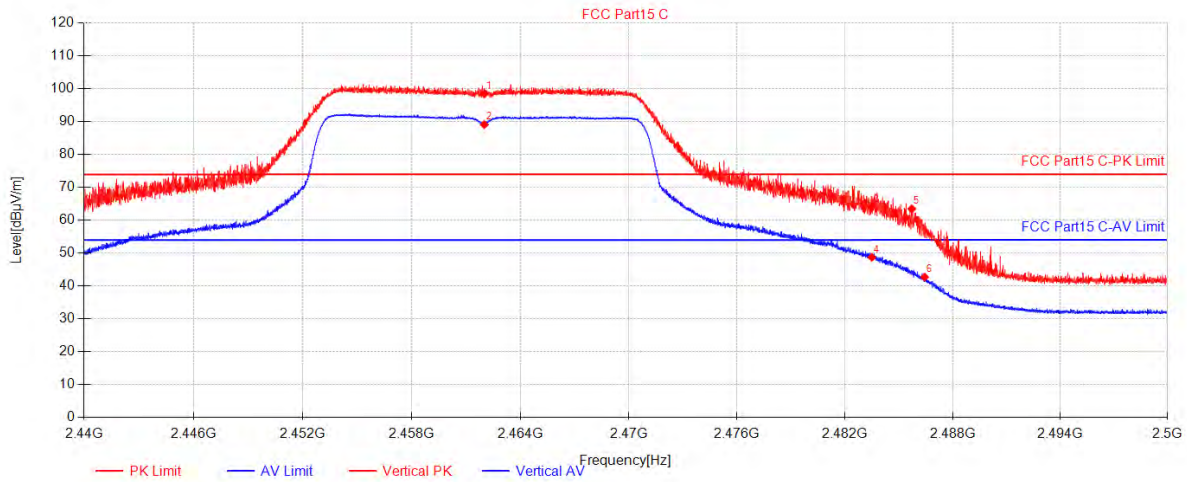
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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462	94.97	3.46	98.43	---	---	328	47	Vertical
2	2462	85.64	3.46	89.10	---	---	328	47	Vertical
3	2483.5	60.42	3.60	64.02	74.00	9.98	328	47	Vertical
4	2483.5	45.09	3.60	48.69	54.00	5.31	328	47	Vertical
5	2485.7275	59.88	3.61	63.49	74.00	10.51	328	47	Vertical
6	2486.44	39.09	3.61	42.70	54.00	11.30	328	47	Vertical

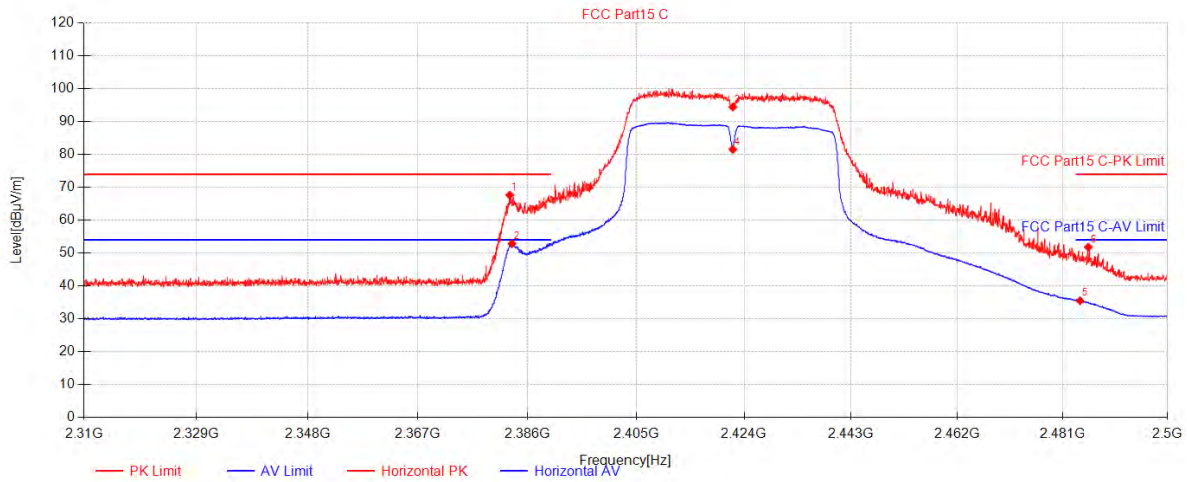


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.8867	64.58	3.08	67.66	74.00	6.34	103	90	Horizontal
2	2383.2767	49.77	3.08	52.85	54.00	1.15	103	90	Horizontal
3	2422	91.24	3.21	94.45	---	---	103	90	Horizontal
4	2422	78.33	3.21	81.54	---	---	103	90	Horizontal
5	2484.16	31.88	3.60	35.48	54.00	18.52	103	90	Horizontal
6	2485.66	48.19	3.61	51.80	74.00	22.20	103	90	Horizontal

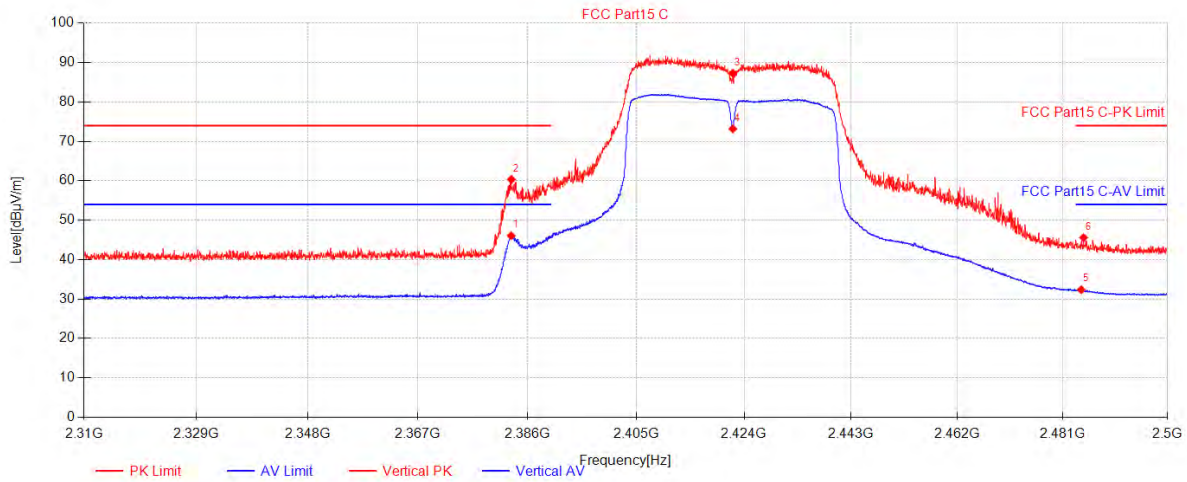


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.1467	42.98	3.08	46.06	54.00	7.94	106	89	Vertical
2	2383.19	57.26	3.08	60.34	74.00	13.66	106	89	Vertical
3	2422	84.07	3.21	87.28	---	---	106	89	Vertical
4	2422	69.96	3.21	73.17	---	---	106	89	Vertical
5	2484.4	28.76	3.60	32.36	54.00	21.64	106	89	Vertical
6	2484.82	41.98	3.60	45.58	74.00	28.42	106	89	Vertical

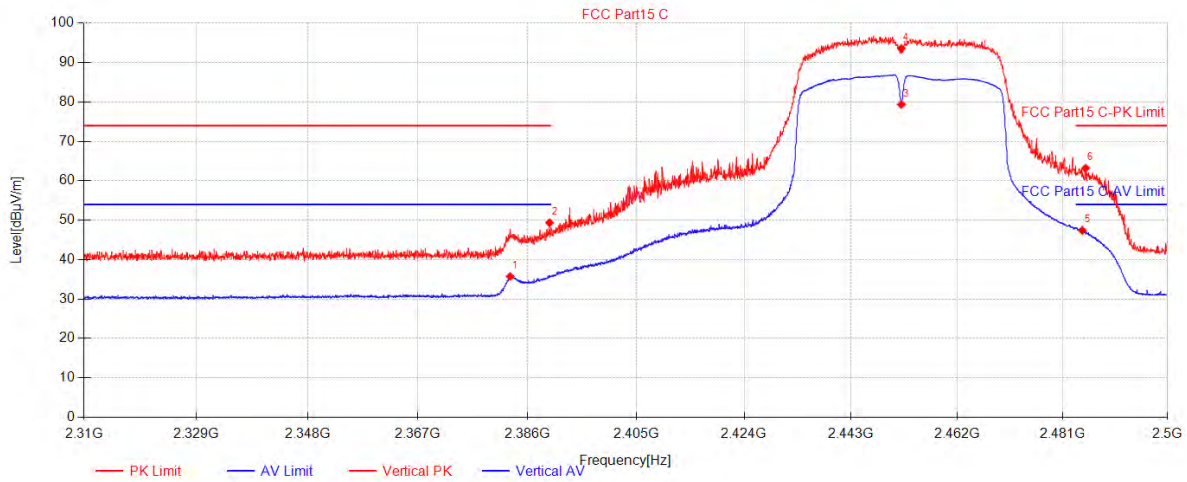


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.9733	32.64	3.08	35.72	54.00	18.28	302	75	Vertical
2	2389.82	46.30	3.07	49.37	74.00	24.63	302	75	Vertical
3	2452	75.97	3.40	79.37	---	---	302	75	Vertical
4	2452	90.20	3.40	93.60	---	---	302	75	Vertical
5	2484.58	43.83	3.60	47.43	54.00	6.57	302	75	Vertical
6	2485.18	59.57	3.61	63.18	74.00	10.82	302	75	Vertical

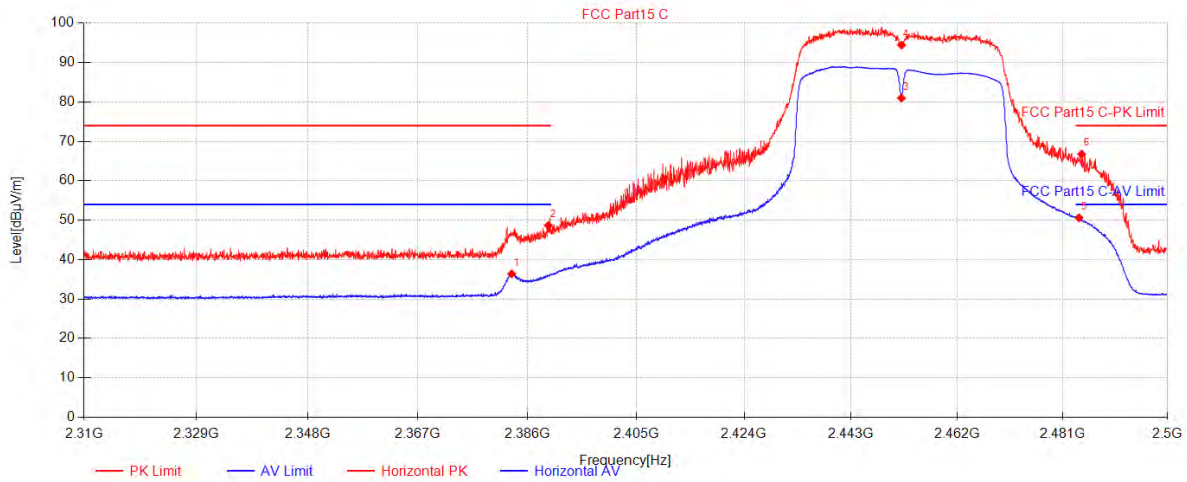


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.2333	33.30	3.08	36.38	54.00	17.62	333	55	Horizontal
2	2389.6033	45.59	3.07	48.66	74.00	25.34	333	55	Horizontal
3	2452	77.57	3.40	80.97	---	---	333	55	Horizontal
4	2452	91.01	3.40	94.41	---	---	333	55	Horizontal
5	2483.98	47.03	3.60	50.63	54.00	3.37	333	55	Horizontal
6	2484.46	63.18	3.60	66.78	74.00	7.22	333	55	Horizontal

The End



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