

Report No.: SUZR/2021/C002403

Rev.: 01

Page: 1 of 158

TEST REPORT

Application No.: ZR/2021/C0024

Applicant: Lenovo(Shanghai) Electronics Technology Co., Ltd.

Address of Applicant Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer: Lenovo PC HK Limited

Address of Manufacturer 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

EUT Description: Portable Tablet Computer

Model No.: TB125FU

Trade Mark: Lenovo

FCC ID: O57TB125FU

Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C

Date of Receipt: 2021/12/29

Date of Test: 2021/12/30 to 2022/1/27

Date of Issue: 2022/1/27

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:

Panta Sun
Wireless Laboratory Manager




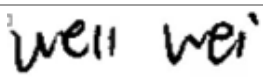
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/1/27		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:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, 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



3.4 General Description of EUT

EUT Description:	Portable Tablet Computer										
Model No.:	TB125FU										
Trade Mark:	Lenovo										
Hardware Version:	Lenovo TB125FU										
Software Version:	TB125FU_RF01_220125										
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth)										
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: $-f_c = \text{"Operating Frequency" in MHz}$, $-N = \text{"Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.}$										
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g : OFDM IEEE for 802.11n(HT20) : OFDM IEEE for 802.11n(HT40) : OFDM										
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module										
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated										
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input 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 applicant -1.47dBi;										
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">0.5dB(0.6~1GHz)</td> <td style="width: 25%;">0.8dB(1.4~2GHz)</td> <td style="width: 25%;">1.0dB(2.1~2.7GHz)</td> <td style="width: 25%;"></td> </tr> <tr> <td>1.5dB(3~4GHz)</td> <td>1.8dB(4.4~6GHz)</td> <td></td> <td></td> </tr> </table>			0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)		1.5dB(3~4GHz)	1.8dB(4.4~6GHz)		
0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)									
1.5dB(3~4GHz)	1.8dB(4.4~6GHz)										
Remark:	<p>*Since the above data and/or information is provided by the applicant 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			



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
LTVN	0	3.8
HTNV	40	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>	
<p>The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.47dBi.</p>	



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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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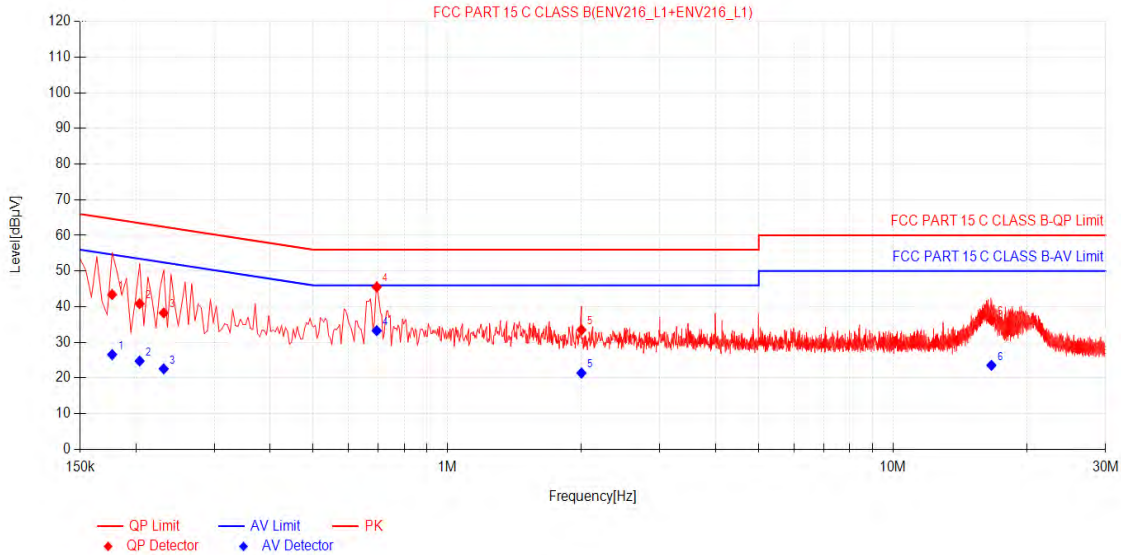
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Measurement Data

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	0.1770	10.75	43.42	64.63	21.21	26.57	54.63	28.06	PASS
2	0.2040	10.82	40.85	63.45	22.60	24.76	53.45	28.69	PASS
3	0.2310	10.81	38.25	62.41	24.16	22.57	52.41	29.84	PASS
4	0.6945	10.58	45.53	56.00	10.47	33.27	46.00	12.73	PASS
5	1.9995	10.68	33.50	56.00	22.50	21.39	46.00	24.61	PASS
6	16.6290	10.49	36.21	60.00	23.79	23.56	50.00	26.44	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.

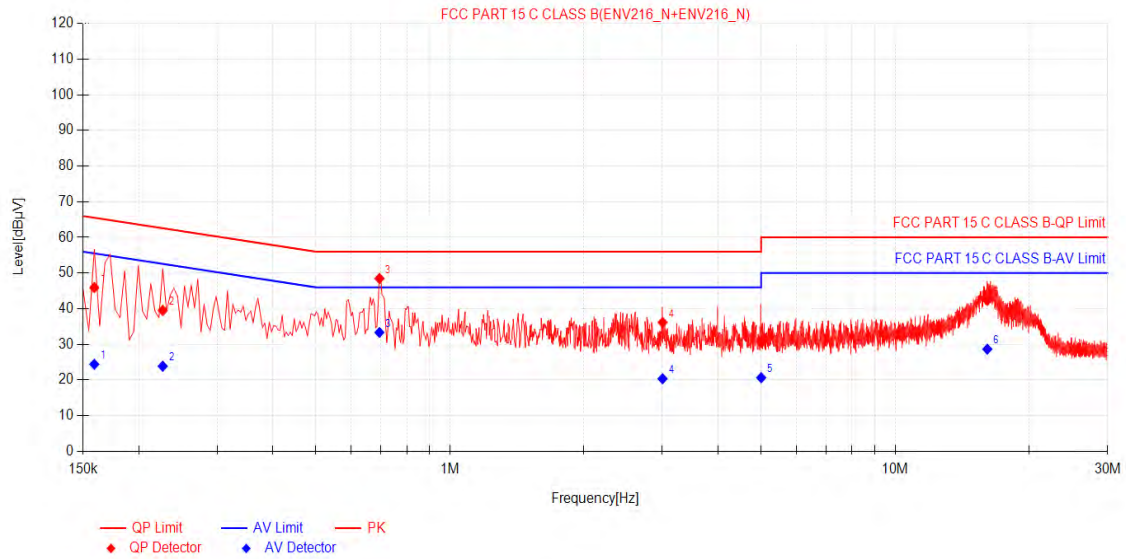


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Neutral Line:



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	45.92	65.52	19.60	24.42	55.52	31.10	PASS
2	0.2265	10.70	39.51	62.58	23.07	23.88	52.58	28.70	PASS
3	0.6945	10.80	48.47	56.00	7.53	33.35	46.00	12.65	PASS
4	3.0030	10.58	36.15	56.00	19.85	20.36	46.00	25.64	PASS
5	5.0010	10.64	30.63	60.00	29.37	20.64	50.00	29.36	PASS
6	16.0980	10.57	42.33	60.00	17.67	28.65	50.00	21.35	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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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

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



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

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



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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	10Hz (DC≥0.98) ≥1/T (DC<0.98)	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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Test Setup:

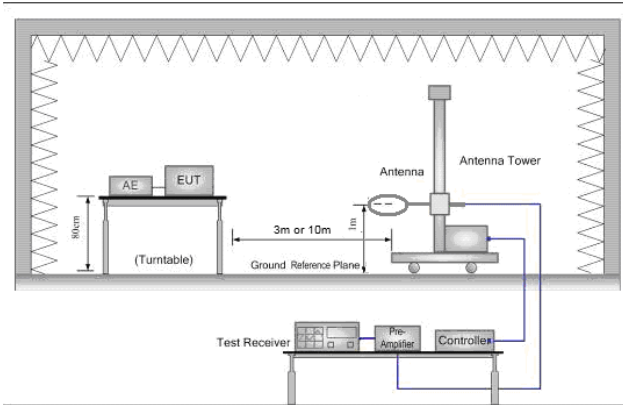


Figure 1. Below 30MHz

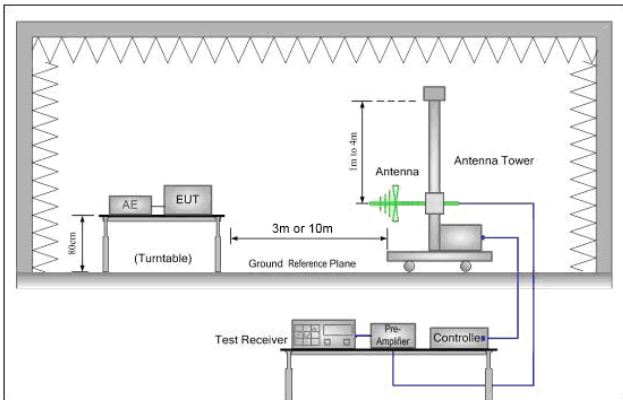


Figure 2. 30MHz to 1GHz

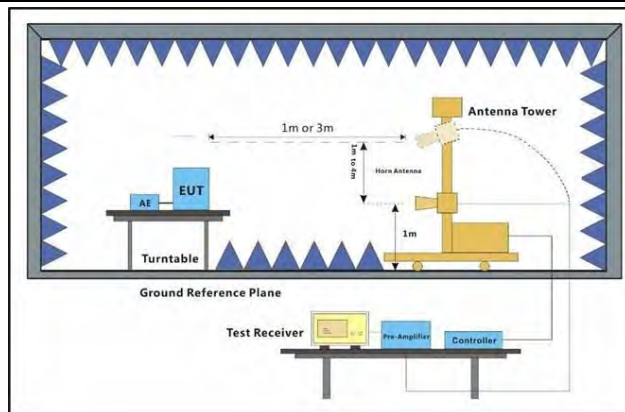


Figure 3. Above 1 GHz

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 specified, then testing could be stopped and the peak values of the EUT



	<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. <p>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
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>
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:

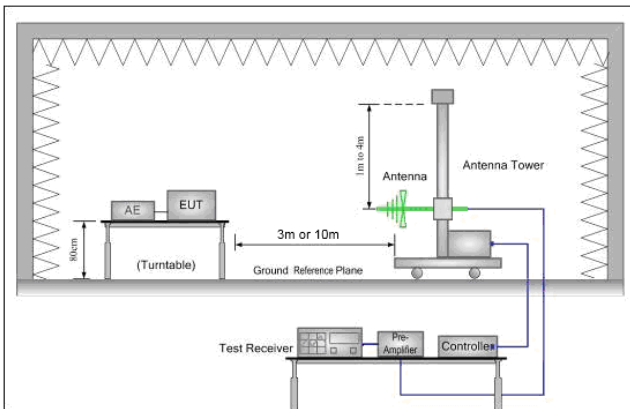


Figure 1. 30MHz to 1GHz

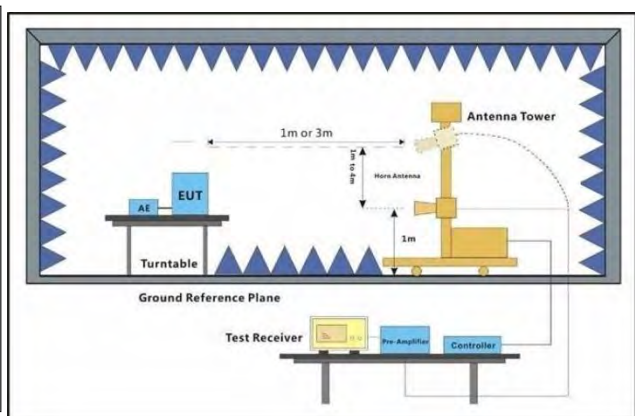


Figure 2. Above 1 GHz



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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>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>



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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
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	± 2.90dB (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

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

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
Power Meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power Sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3



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RSE Test Equipment					
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.1 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	8.56	2407.96	2416.52	0.5	PASS
		2437	8.52	2433.00	2441.52	0.5	PASS
		2462	8.08	2457.96	2466.04	0.5	PASS
11g	Ant1	2412	15.32	2404.44	2419.76	0.5	PASS
		2437	15.48	2429.44	2444.92	0.5	PASS
		2462	15.80	2454.12	2469.92	0.5	PASS
11n20SISO	Ant1	2412	15.12	2404.44	2419.56	0.5	PASS
		2437	16.08	2429.44	2445.52	0.5	PASS
		2462	17.04	2453.48	2470.52	0.5	PASS
11n40SISO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
		2437	35.12	2419.48	2454.60	0.5	PASS
		2452	33.92	2435.68	2469.60	0.5	PASS



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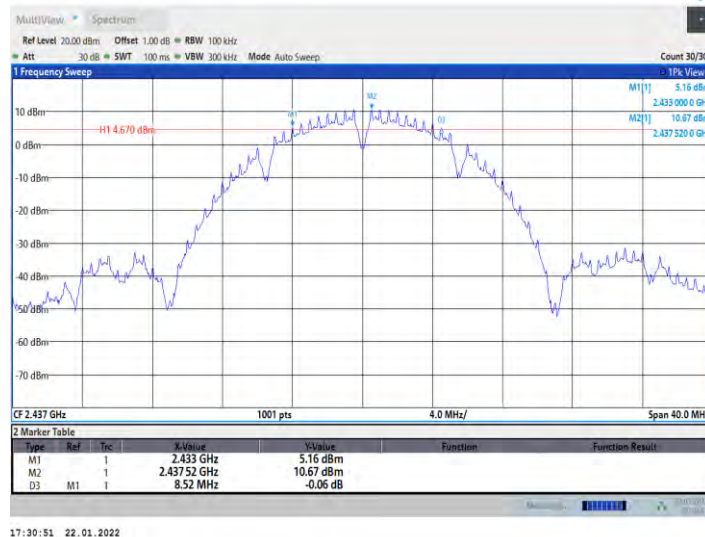
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Test Graphs

11b Ant1 2412



11b Ant1 2437



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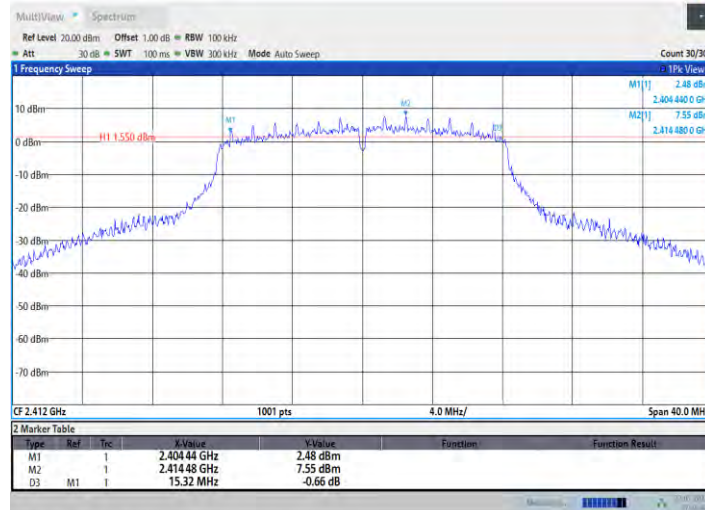
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11b_Ant1_2462



17:44:15 22.01.2022

11g_Ant1_2412



17:46:46 22.01.2022

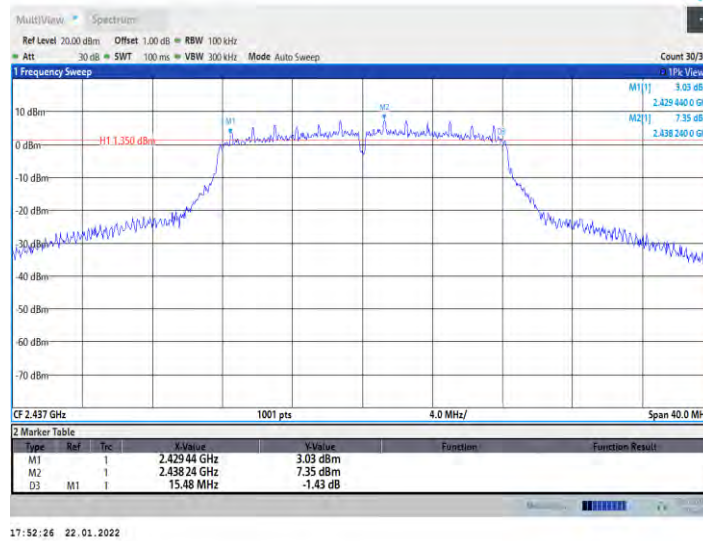


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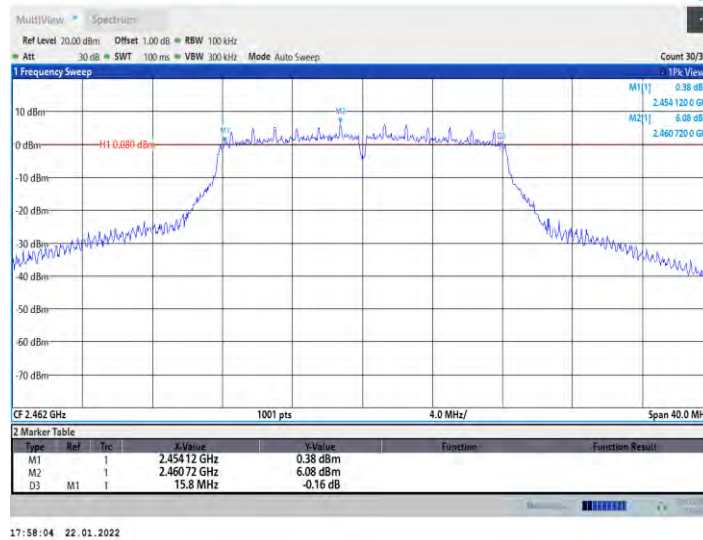
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11g_Ant1_2437



11g_Ant1_2462

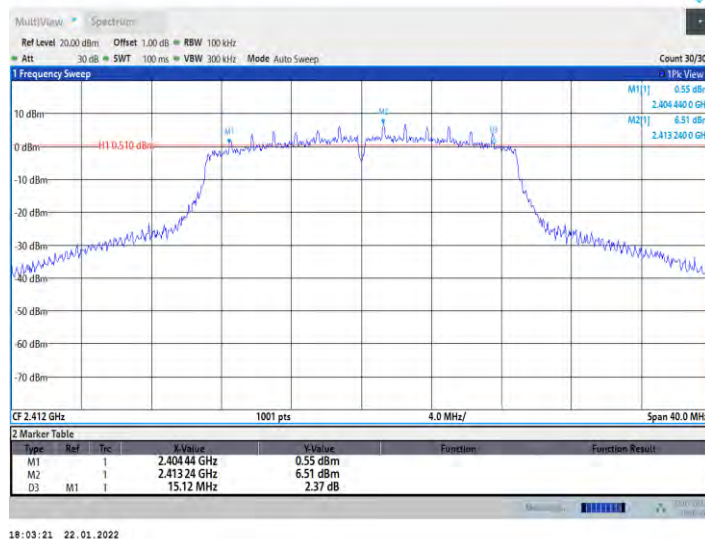


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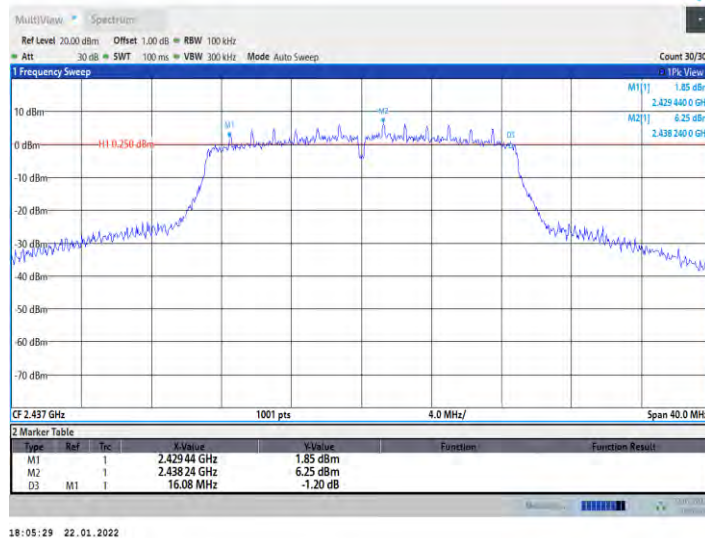
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

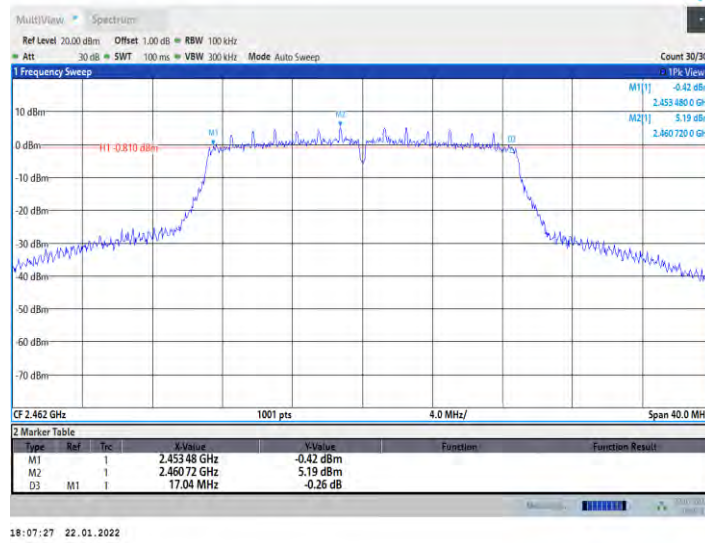


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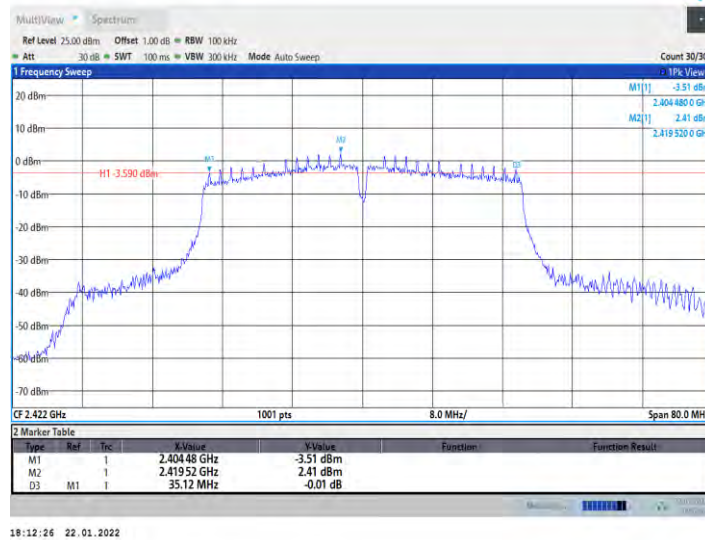
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11n40SISO_Ant1_2422

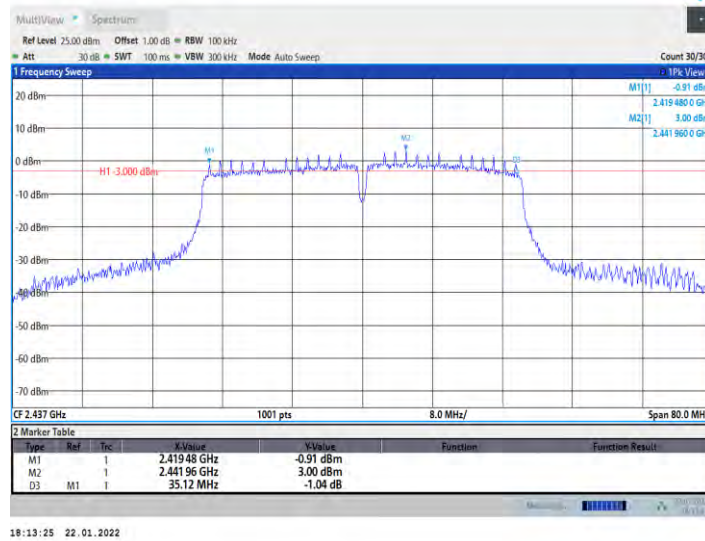


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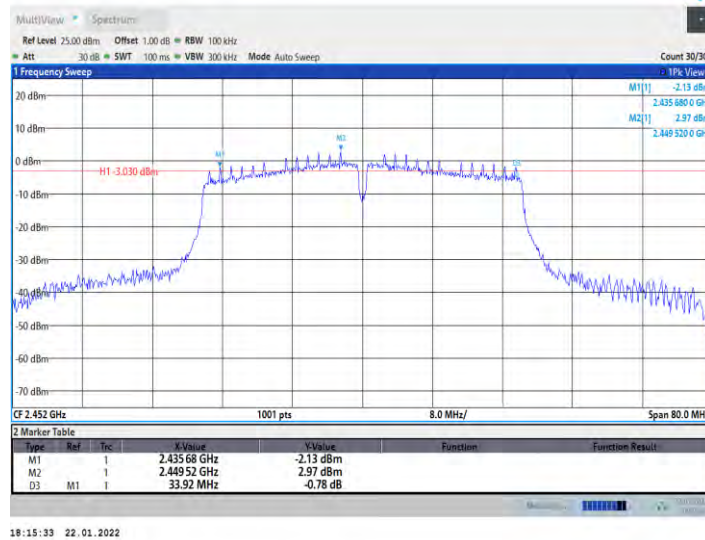
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	12.915	2405.656	2418.571	---	---
		2437	13.162	2430.492	2443.655	---	---
		2462	13.165	2455.402	2468.567	---	---
11g	Ant1	2412	17.185	2403.482	2420.667	---	---
		2437	17.42	2428.352	2445.772	---	---
		2462	17.434	2453.271	2470.705	---	---
11n20SISO	Ant1	2412	18.108	2403.020	2421.128	---	---
		2437	18.272	2427.902	2446.174	---	---
		2462	18.321	2452.825	2471.146	---	---
11n40SISO	Ant1	2422	36.3	2403.926	2440.226	---	---
		2437	36.635	2418.664	2455.299	---	---
		2452	36.317	2433.941	2470.258	---	---



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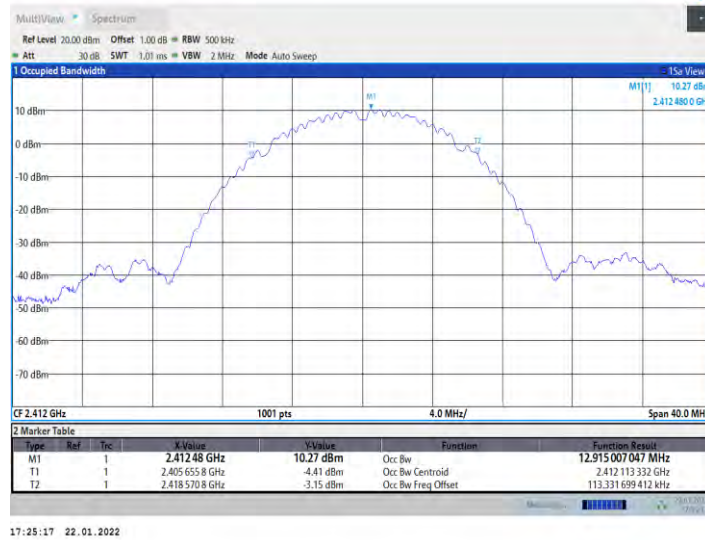
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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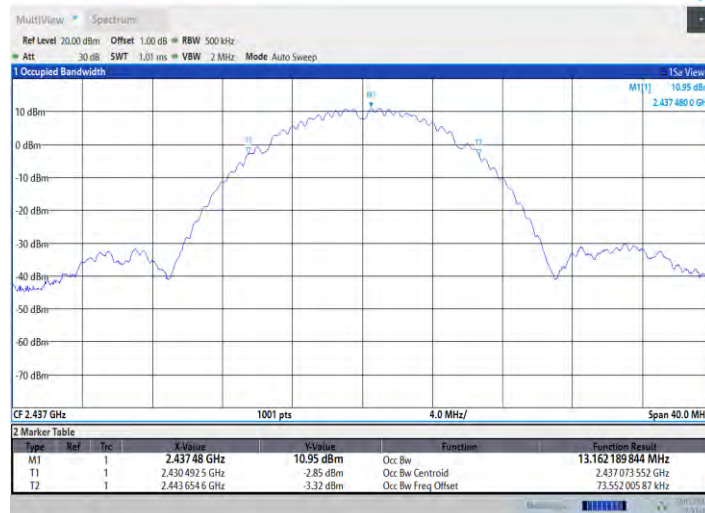
Test Graphs

11b Ant1 2412



17:25:17 22.01.2022

11b Ant1 2437



17:31:02 22.01.2022

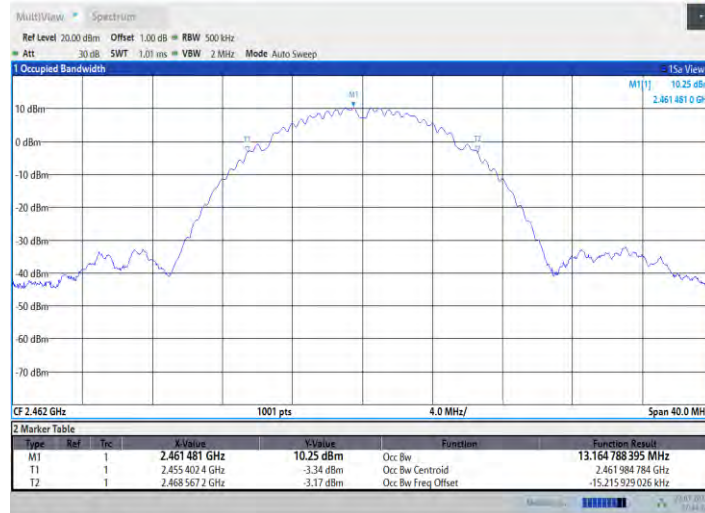


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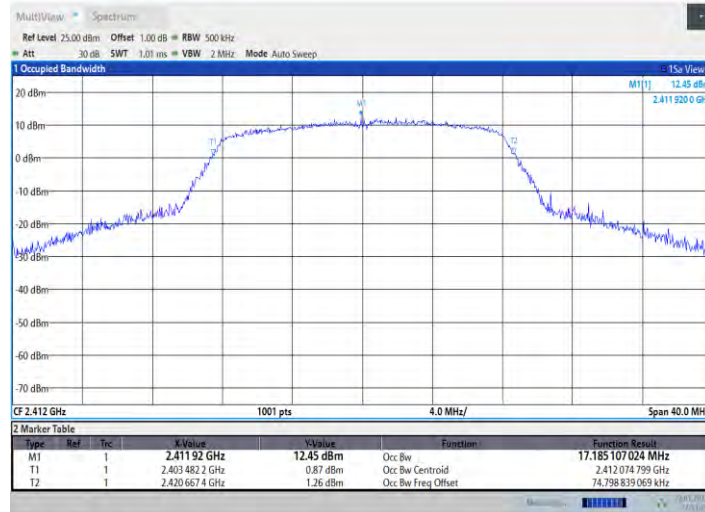
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11b_Ant1_2462



17:44:27 22.01.2022

11g_Ant1_2412



17:51:21 22.01.2022

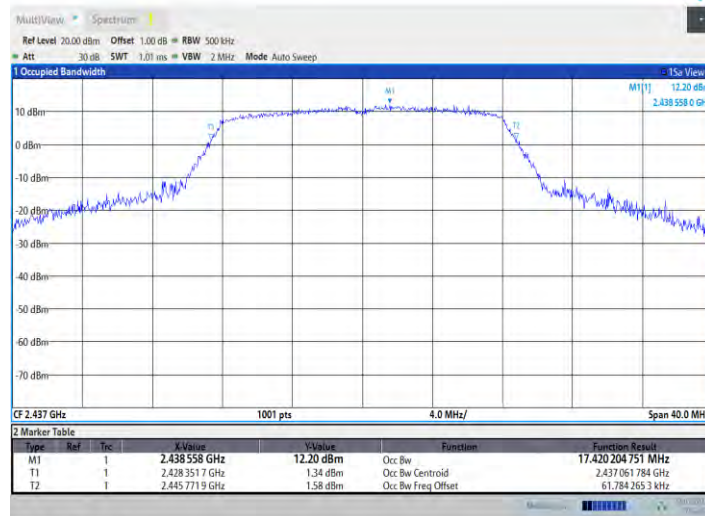


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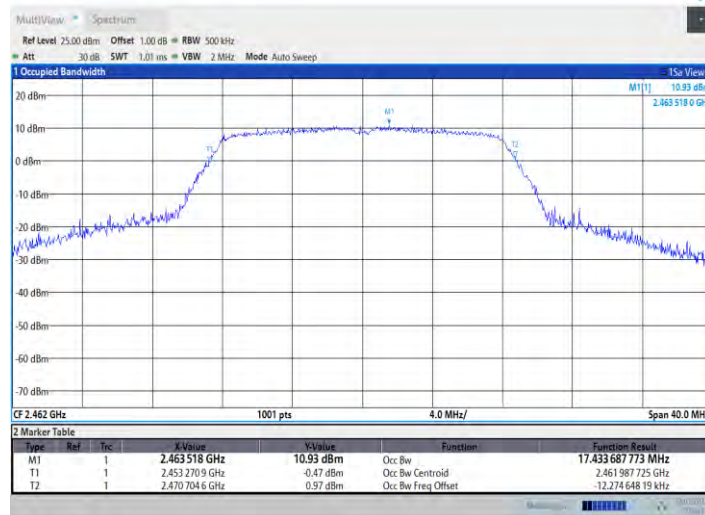
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11g_Ant1_2437



17:52:37 22.01.2022

11g_Ant1_2462



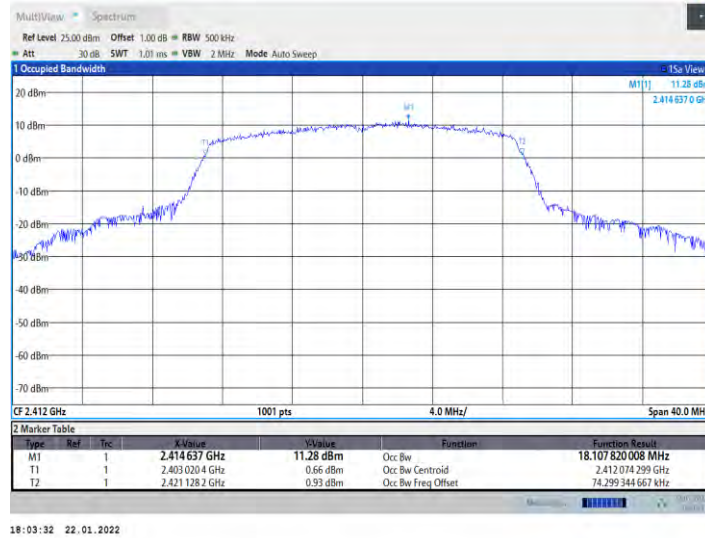
17:58:15 22.01.2022



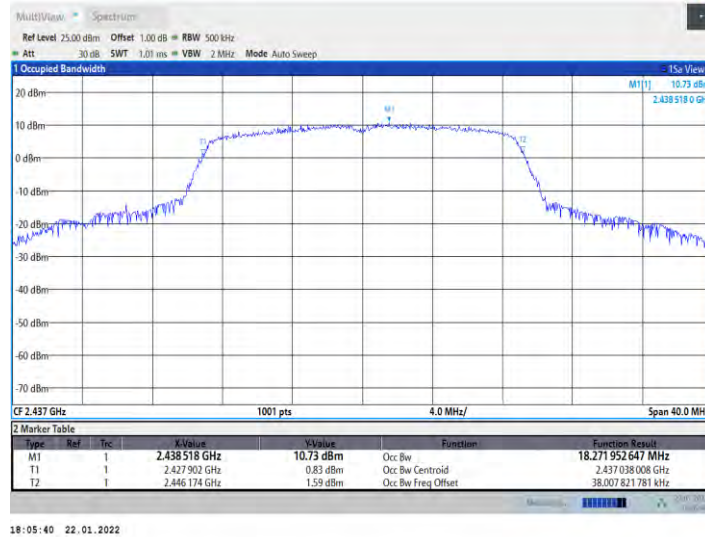
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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

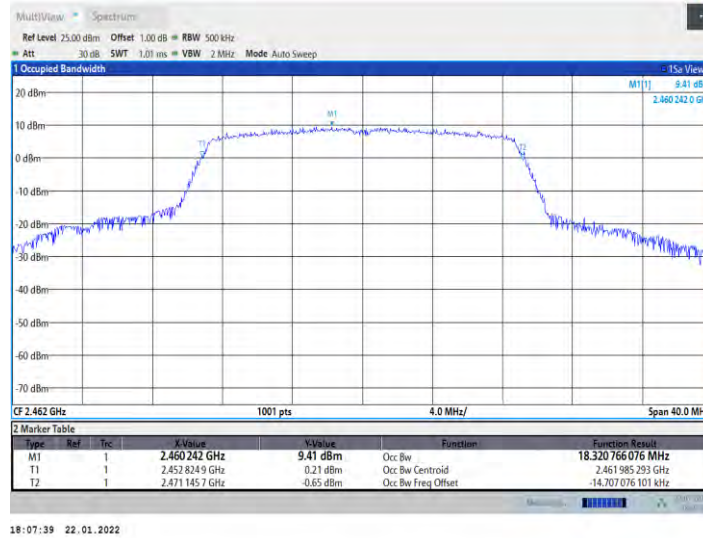


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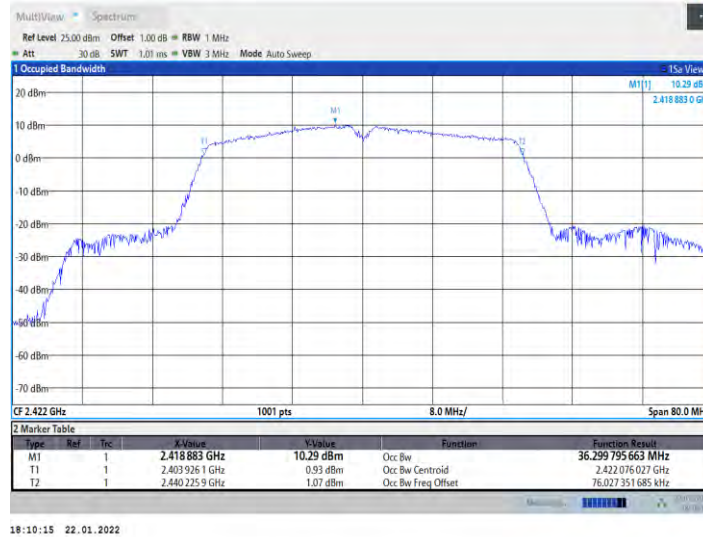
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11n20SISO_Ant1_2462



11n40SISO_Ant1_2422

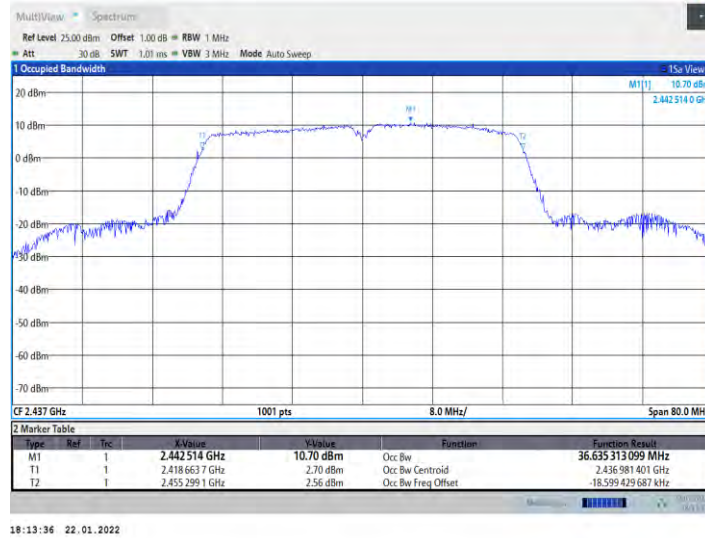


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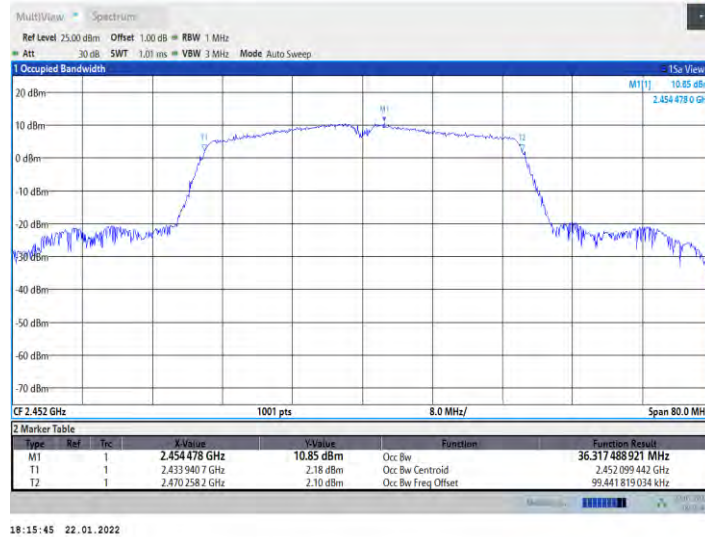
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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**Maximum conducted output power
Test Result Peak**

Test Mode	Antenna	Frequency[MHz]	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11b	Ant1	2412	19.80	≤30.00	PASS
		2437	20.14	≤30.00	PASS
		2462	20.07	≤30.00	PASS
11g	Ant1	2412	24.42	≤30.00	PASS
		2437	24.46	≤30.00	PASS
		2462	24.42	≤30.00	PASS
11n20SISO	Ant1	2412	24.38	≤30.00	PASS
		2437	24.45	≤30.00	PASS
		2462	24.37	≤30.00	PASS
11n40SISO	Ant1	2422	24.12	≤30.00	PASS
		2437	24.22	≤30.00	PASS
		2452	24.14	≤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	-13.75	≤8.00	PASS
		2437	-13.10	≤8.00	PASS
		2462	-14.00	≤8.00	PASS
11g	Ant1	2412	-15.77	≤8.00	PASS
		2437	-15.96	≤8.00	PASS
		2462	-17.13	≤8.00	PASS
11n20SISO	Ant1	2412	-16.46	≤8.00	PASS
		2437	-16.56	≤8.00	PASS
		2462	-17.60	≤8.00	PASS
11n40SISO	Ant1	2422	-15.69	≤8.00	PASS
		2437	-18.58	≤8.00	PASS
		2452	-15.38	≤8.00	PASS

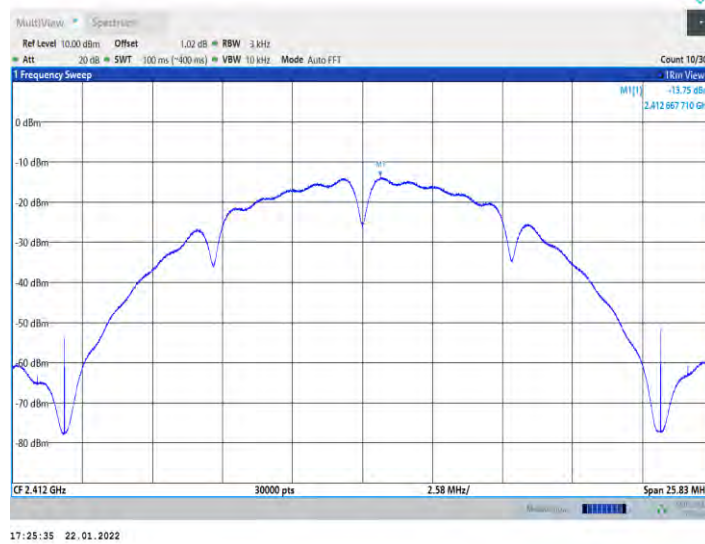


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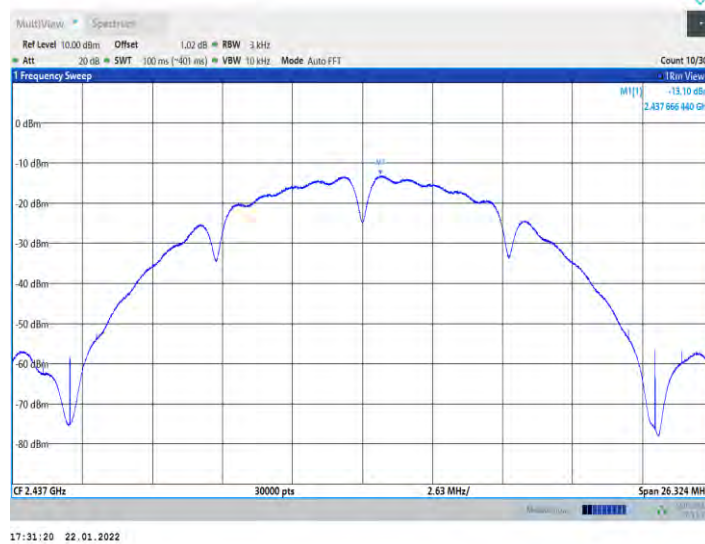
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Test Graphs

11b_Ant1_2412

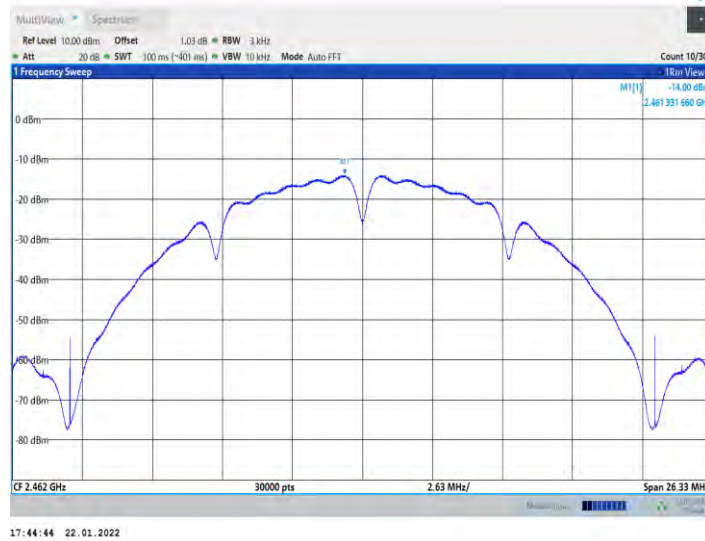


11b_Ant1_2437

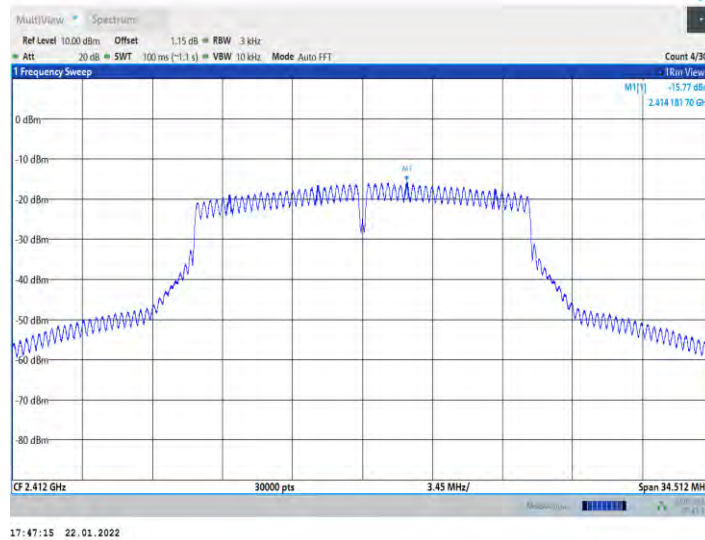


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11b_Ant1_2462



11g_Ant1_2412

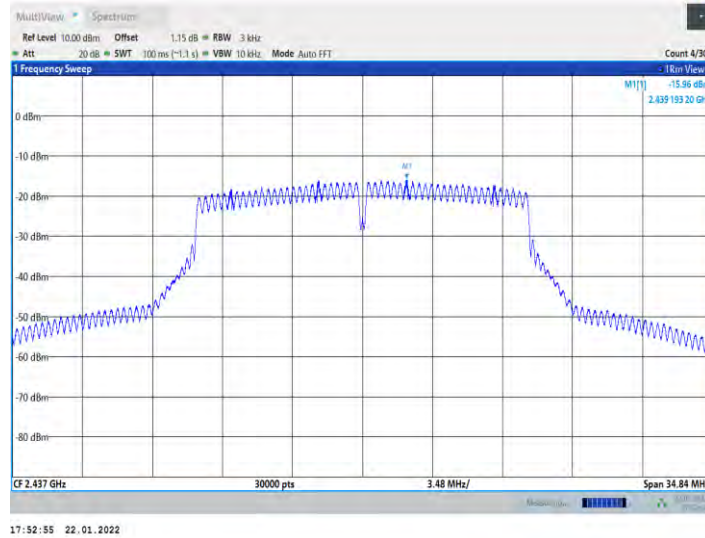


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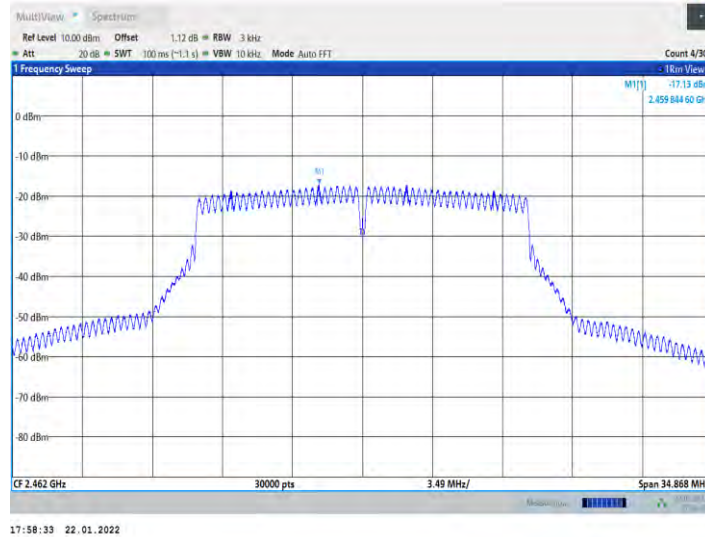
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11g_Ant1_2437

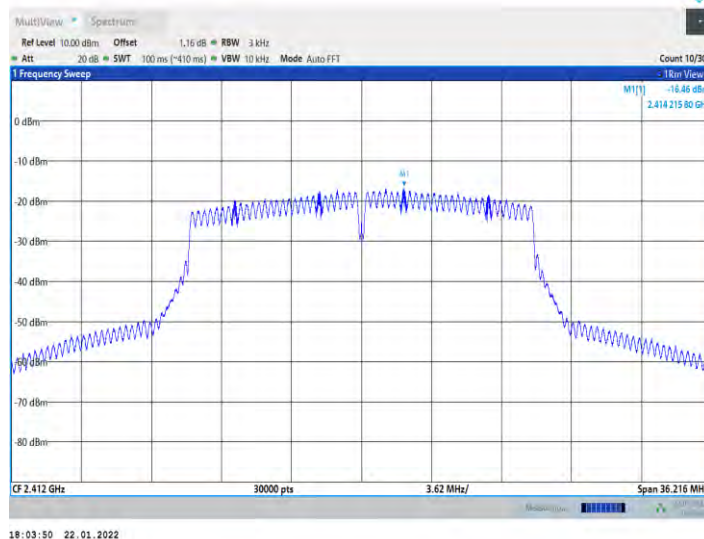


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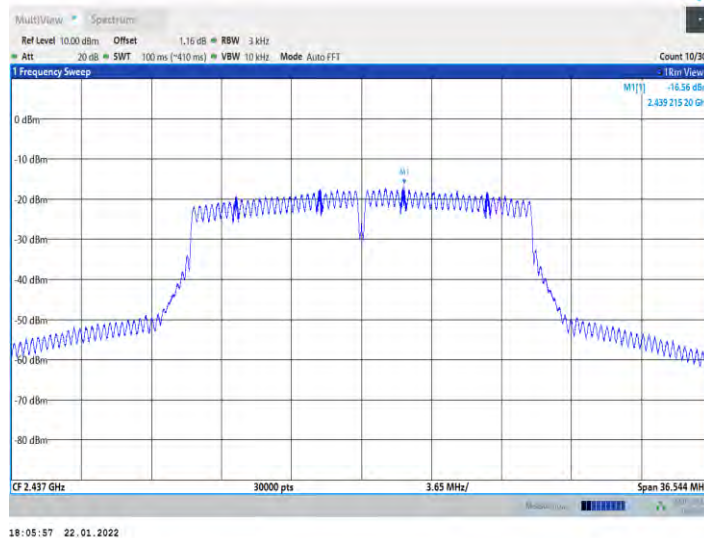


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11n20SISO_Ant1_2412



11n20SISO_Ant1_2437

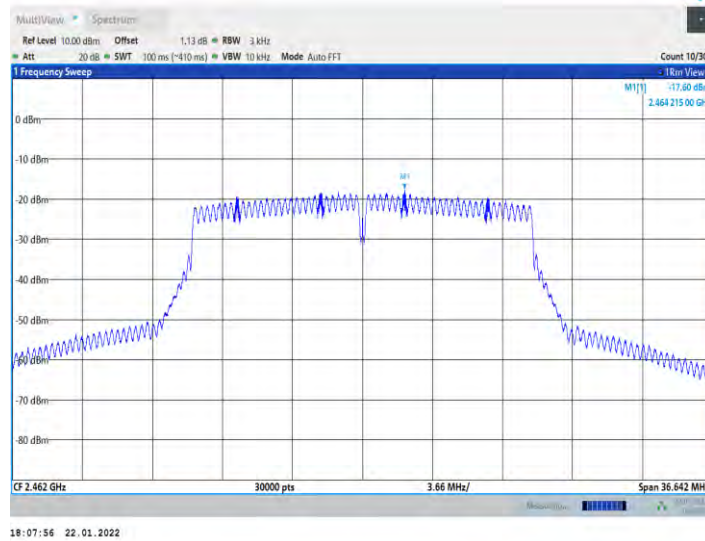


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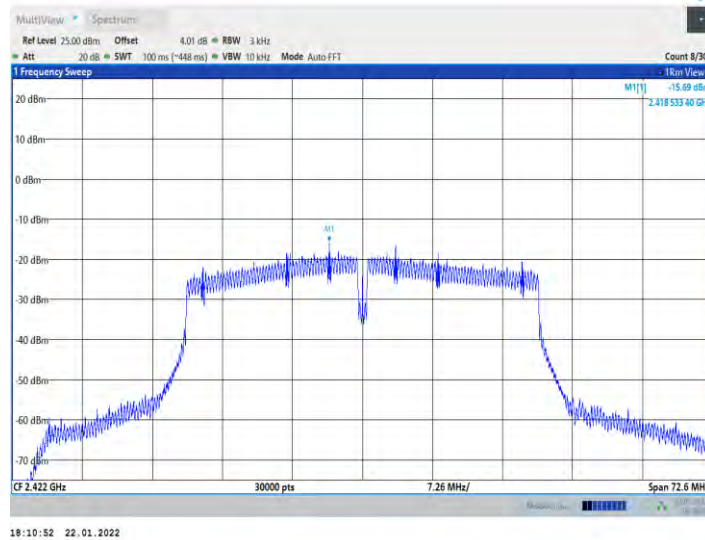
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11n20SISO_Ant1_2462



11n40SISO_Ant1_2422

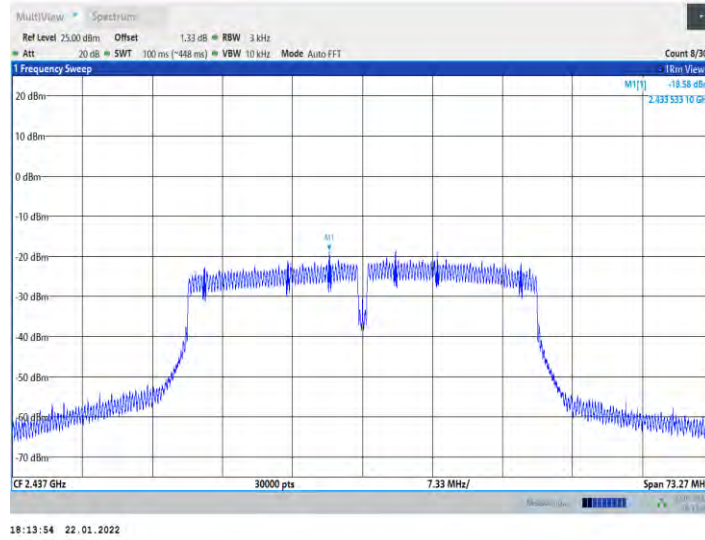


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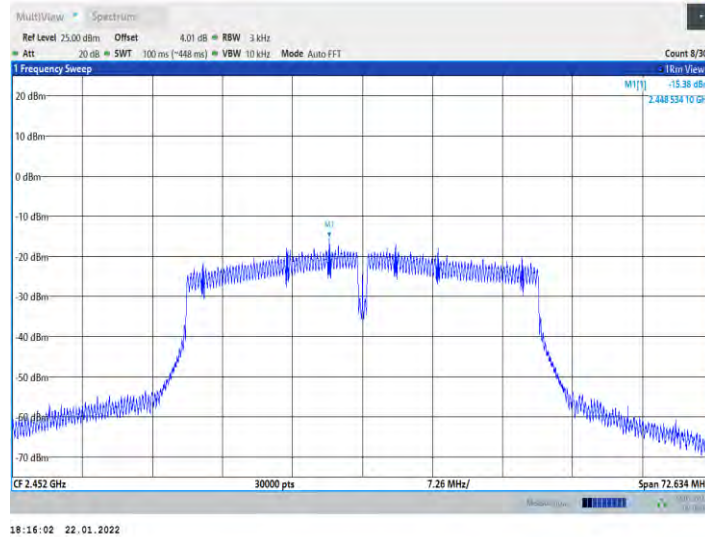
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



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Band edge measurements
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	9.92	-37.02	≤-20.08	PASS
		High	2462	9.95	-50.88	≤-20.05	PASS
11g	Ant1	Low	2412	7.10	-24.03	≤-22.9	PASS
		High	2462	5.95	-42.41	≤-24.05	PASS
11n20SISO	Ant1	Low	2412	6.47	-25.1	≤-23.53	PASS
		High	2462	5.04	-42.39	≤-24.96	PASS
11n40SISO	Ant1	Low	2422	2.43	-31.98	≤-27.57	PASS
		High	2452	2.87	-36.54	≤-27.13	PASS



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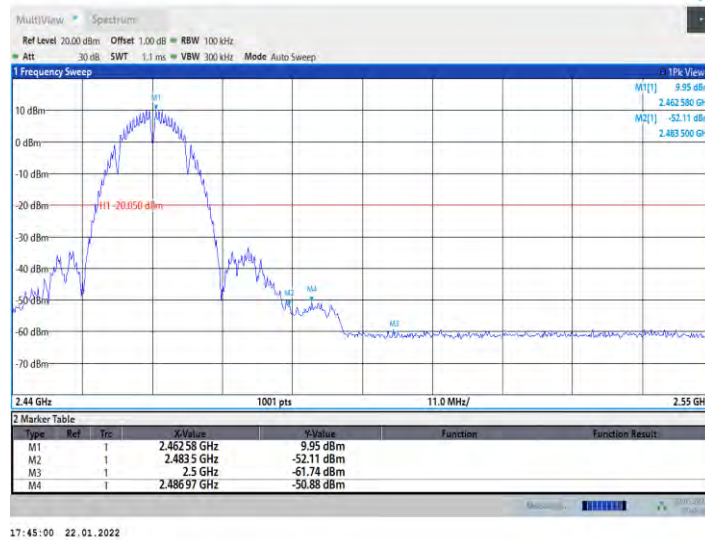
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Test Graphs

11b_Ant1_Low_2412



11b_Ant1_High_2462



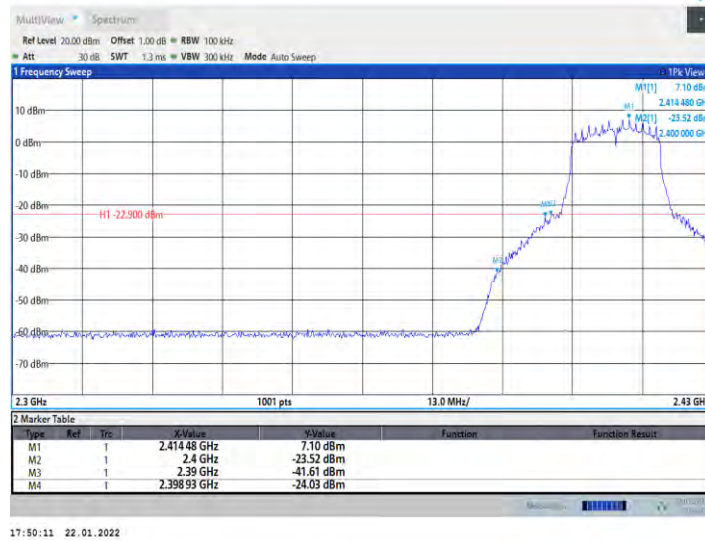
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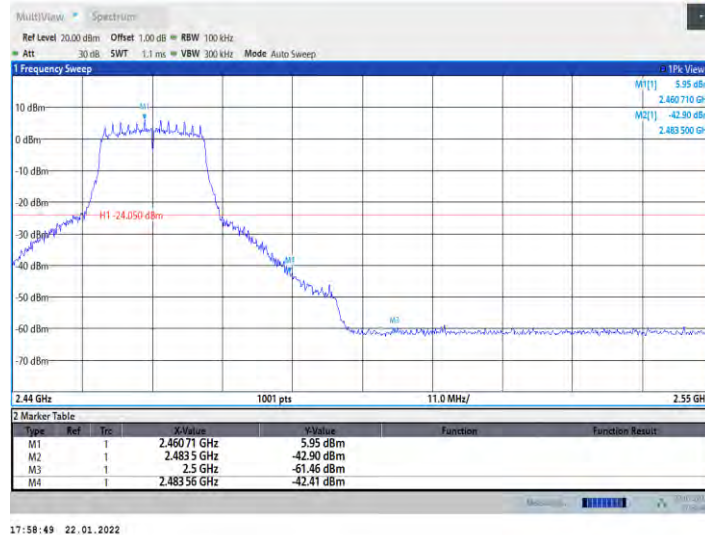
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11g_Ant1_Low_2412



11g_Ant1_High_2462



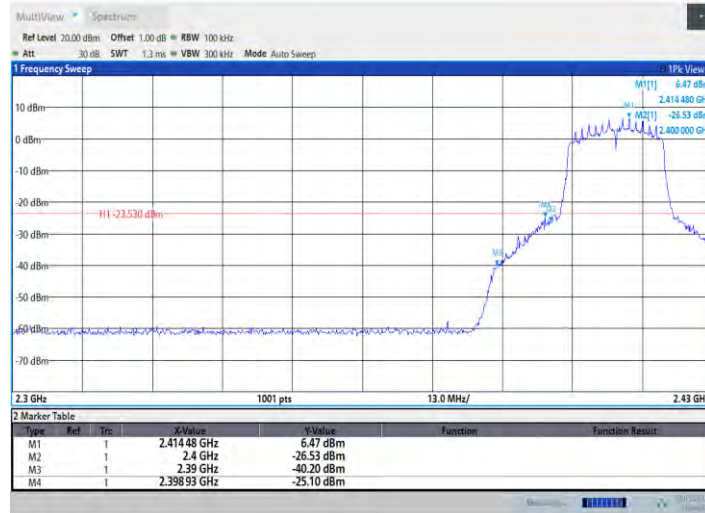
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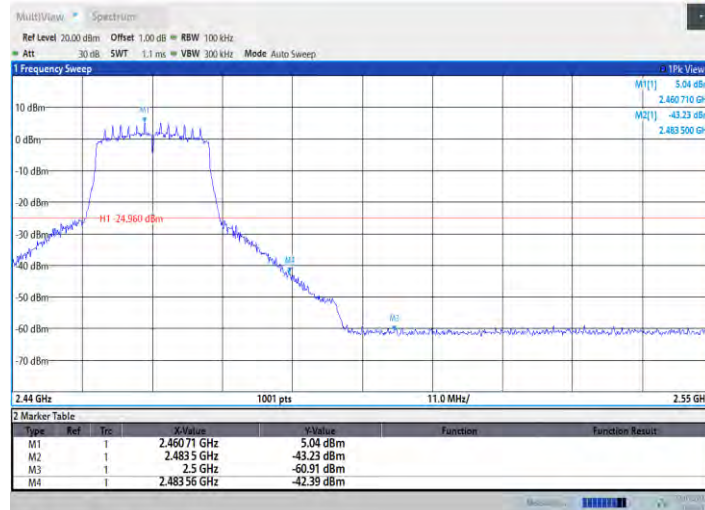
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11n20SISO_Ant1_Low_2412



18:04:06 22.01.2022

11n20SISO_Ant1_High_2462



18:08:12 22.01.2022



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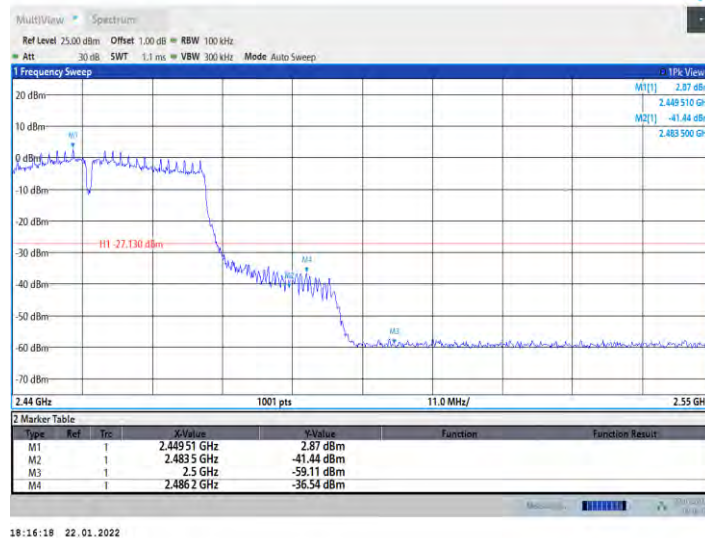
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11n40SISO_Ant1_Low_2422



18:11:08 22.01.2022

11n40SISO_Ant1_High_2452



18:16:18 22.01.2022



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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	10.04	10.04	---	PASS
			30~1000	10.04	-57.54	≤-9.96	PASS
			1000~26500	10.04	-42.36	≤-9.96	PASS
		2437	Reference	10.70	10.70	---	PASS
			30~1000	10.70	-57.12	≤-9.3	PASS
			1000~26500	10.70	-43.17	≤-9.3	PASS
		2462	Reference	9.96	9.96	---	PASS
			30~1000	9.96	-57.18	≤-10.04	PASS
			1000~26500	9.96	-44.9	≤-10.04	PASS
11g	Ant1	2412	Reference	7.56	7.56	---	PASS
			30~1000	7.56	-57.85	≤-12.44	PASS
			1000~26500	7.56	-49.94	≤-12.44	PASS
		2437	Reference	7.30	7.30	---	PASS
			30~1000	7.30	-57.89	≤-12.7	PASS
			1000~26500	7.30	-51.68	≤-12.7	PASS
		2462	Reference	6.04	6.04	---	PASS
			30~1000	6.04	-57.4	≤-13.96	PASS
			1000~26500	6.04	-51.15	≤-13.96	PASS
11n20SISO	Ant1	2412	Reference	6.46	6.46	---	PASS
			30~1000	6.46	-57.85	≤-13.54	PASS
			1000~26500	6.46	-40.24	≤-13.54	PASS
		2437	Reference	6.16	6.16	---	PASS
			30~1000	6.16	-57.64	≤-13.84	PASS
			1000~26500	6.16	-51.75	≤-13.84	PASS
		2462	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-57.4	≤-15.07	PASS
			1000~26500	4.93	-39.29	≤-15.07	PASS
11n40SISO	Ant1	2422	Reference	2.42	2.42	---	PASS



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Rev.: 01

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		2437	30~1000	2.42	-58.18	≤-17.58	PASS
			1000~26500	2.42	-52.32	≤-17.58	PASS
			Reference	3.03	3.03	---	PASS
			30~1000	3.03	-56.92	≤-16.97	PASS
			1000~26500	3.03	-52.16	≤-16.97	PASS
			Reference	2.96	2.96	---	PASS
		2452	30~1000	2.96	-57.78	≤-17.04	PASS
			1000~26500	2.96	-49.15	≤-17.04	PASS



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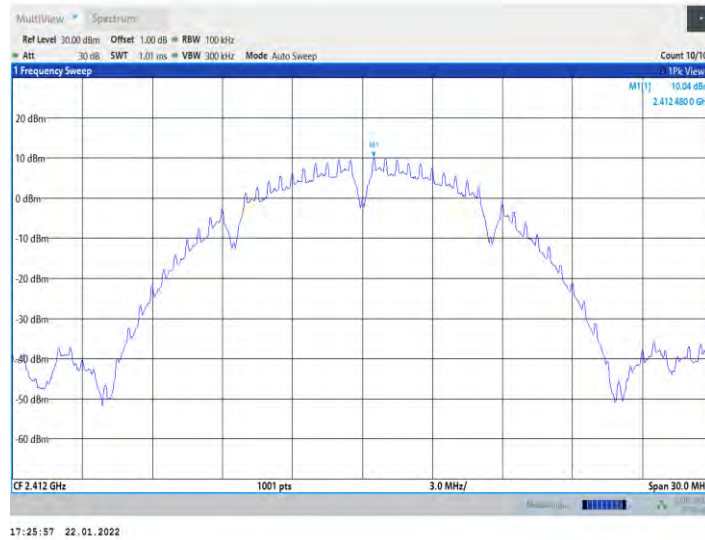
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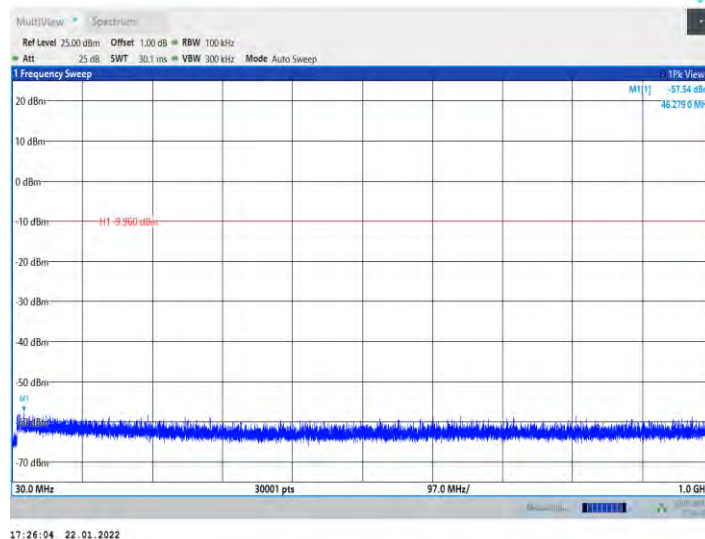
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Test Graphs

11b_Ant1_2412_0~Reference



11b_Ant1_2412_30~1000



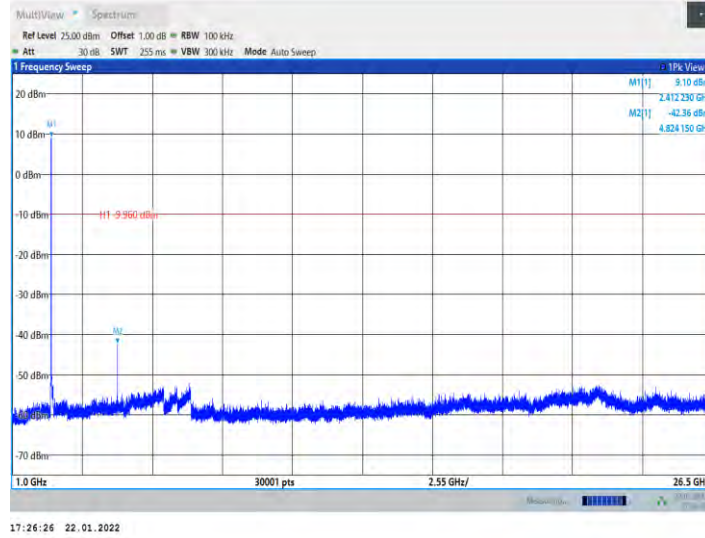
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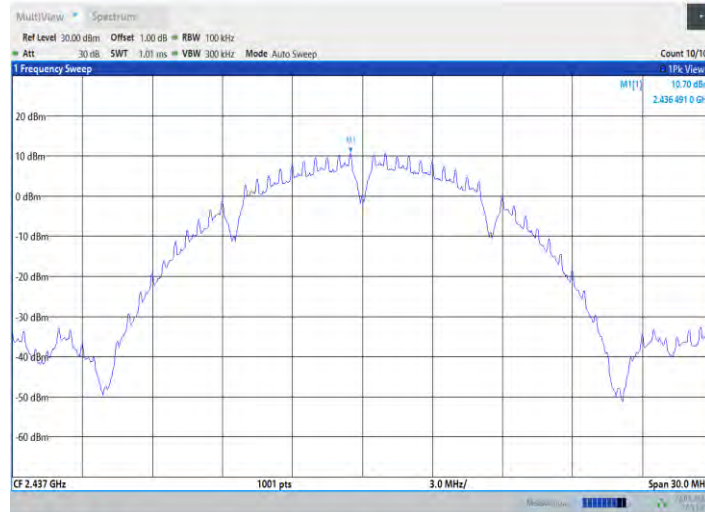
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11b_Ant1_2412_1000~26500



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11b_Ant1_2437_0~Reference



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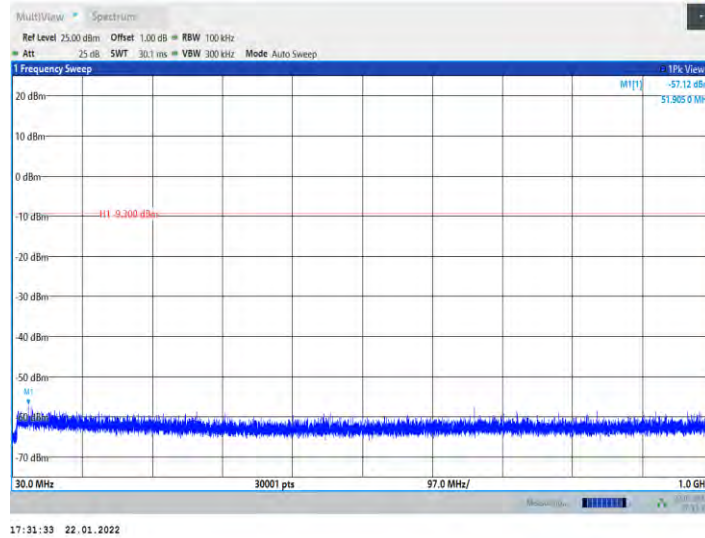


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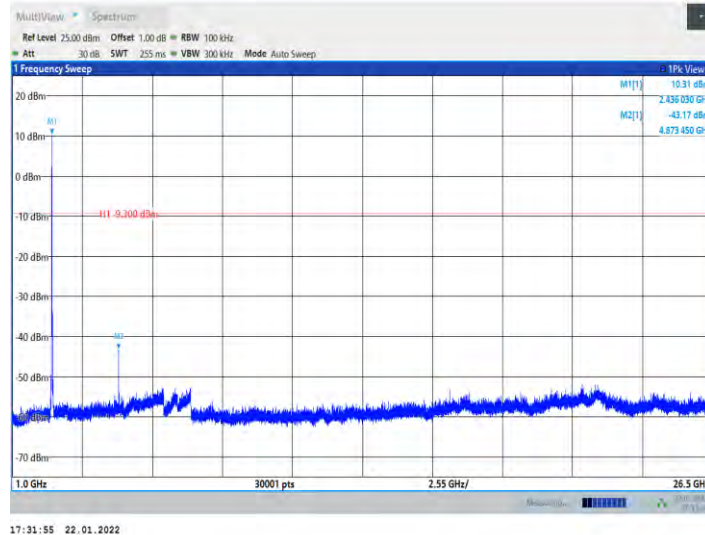
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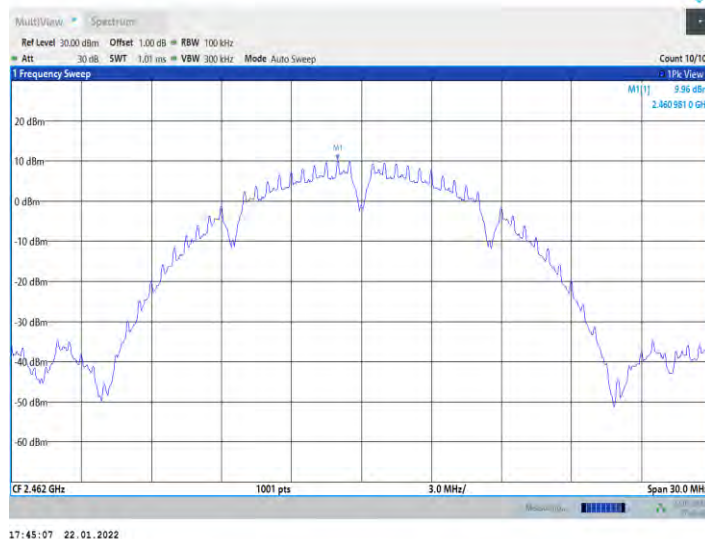
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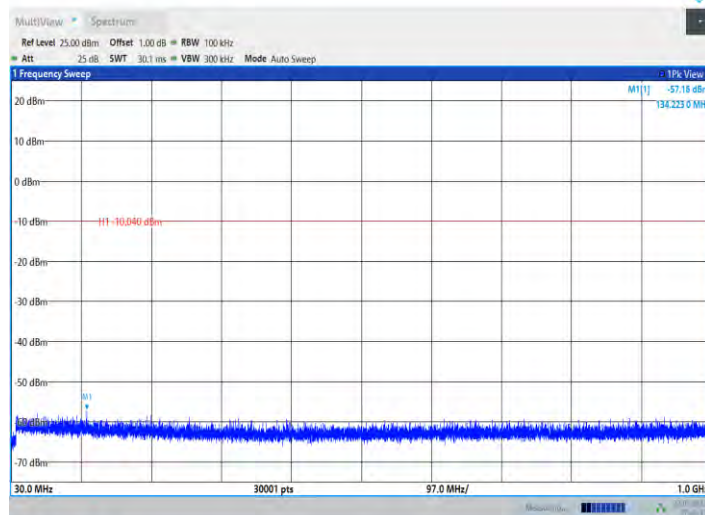
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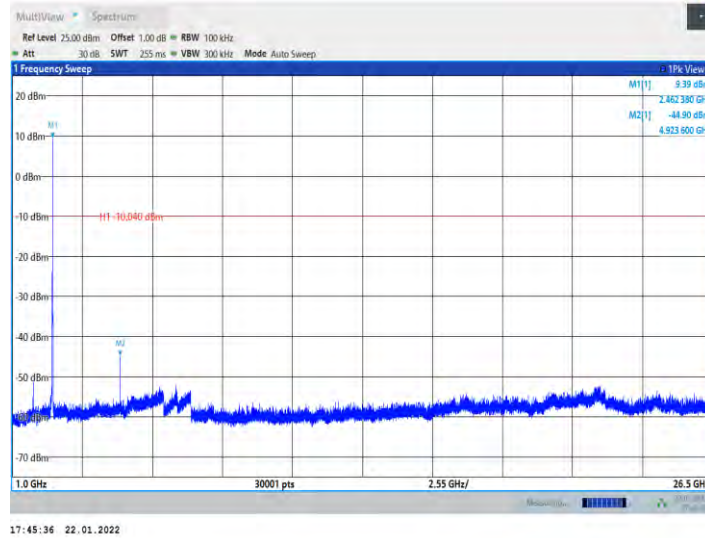


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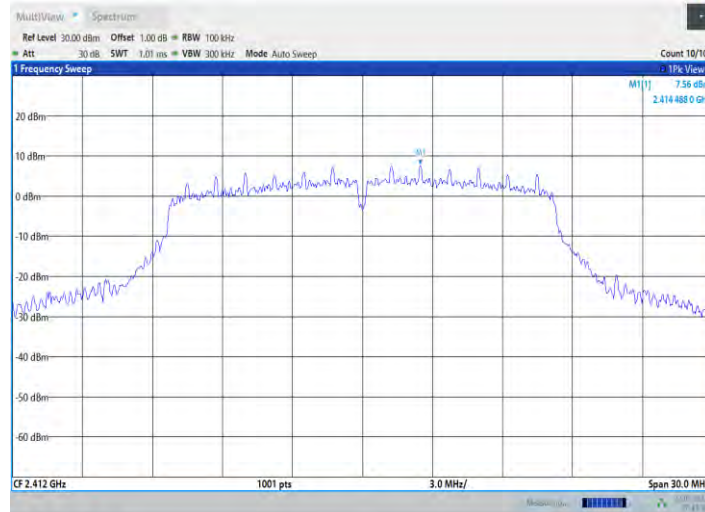
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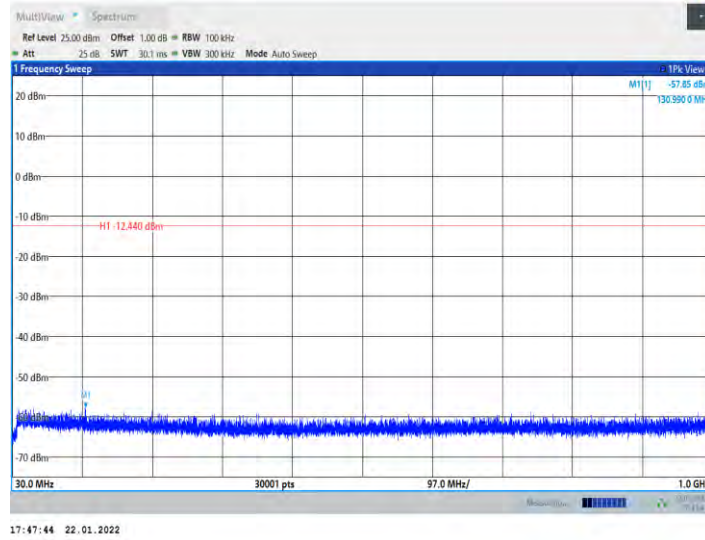


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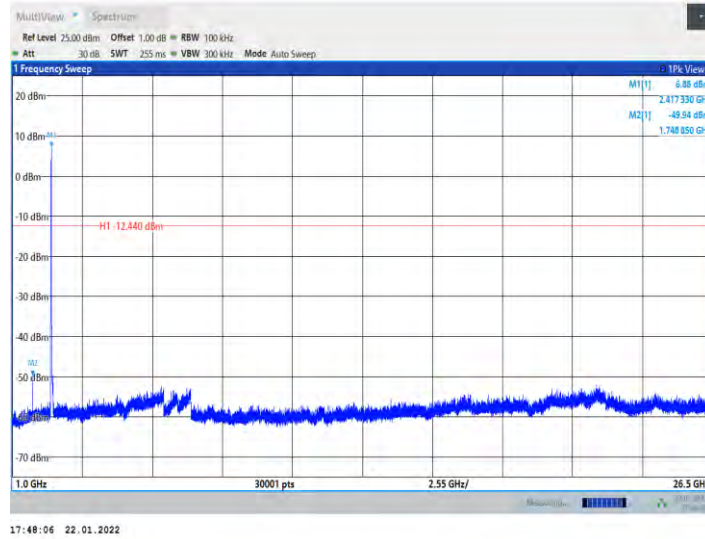
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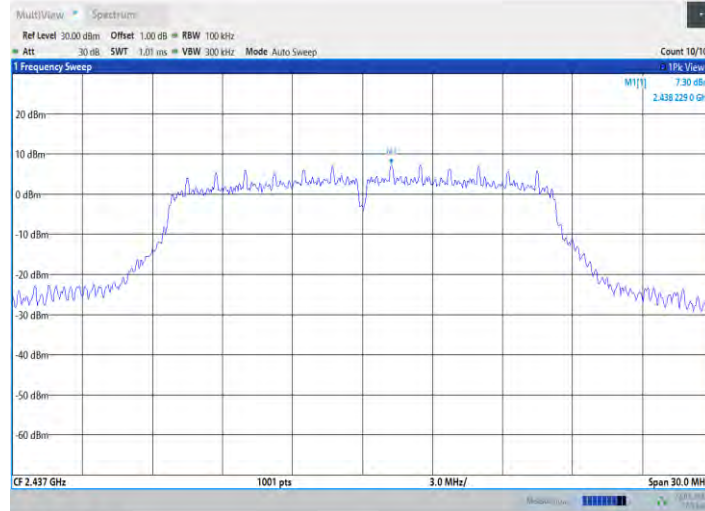


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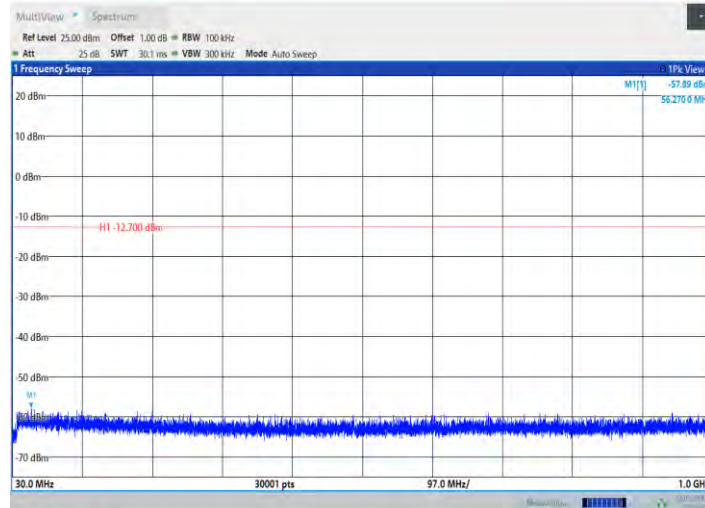
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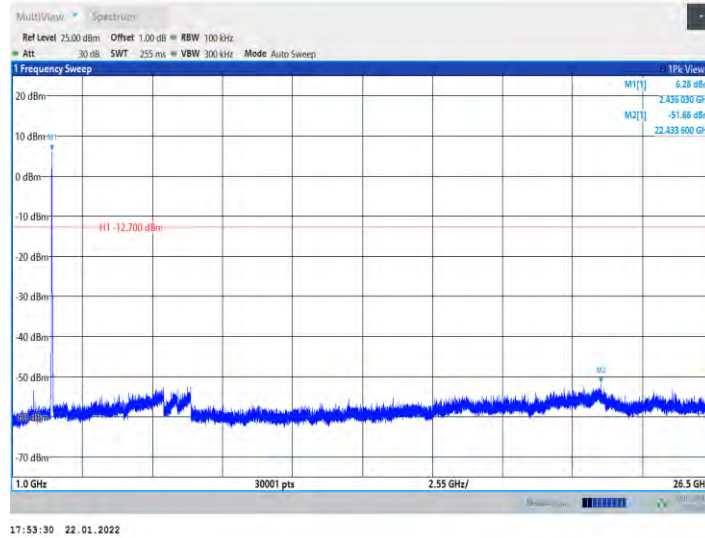


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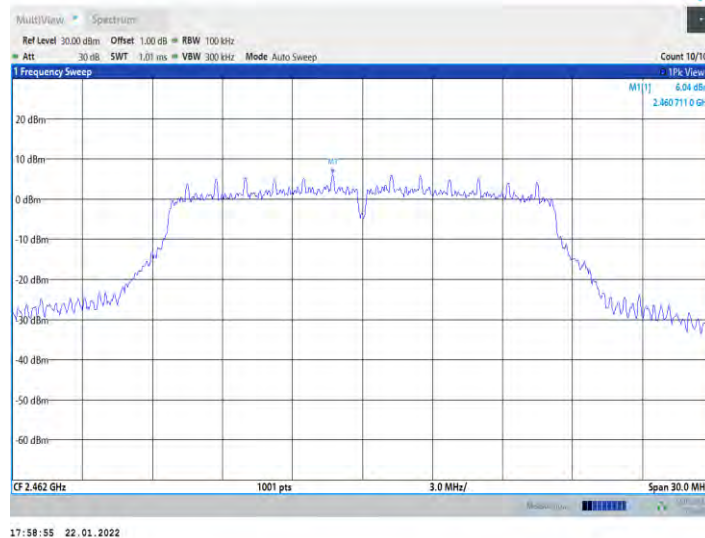
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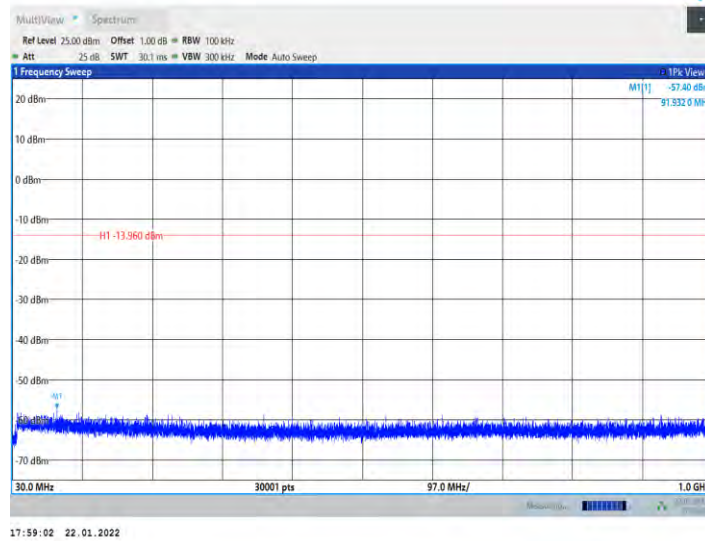


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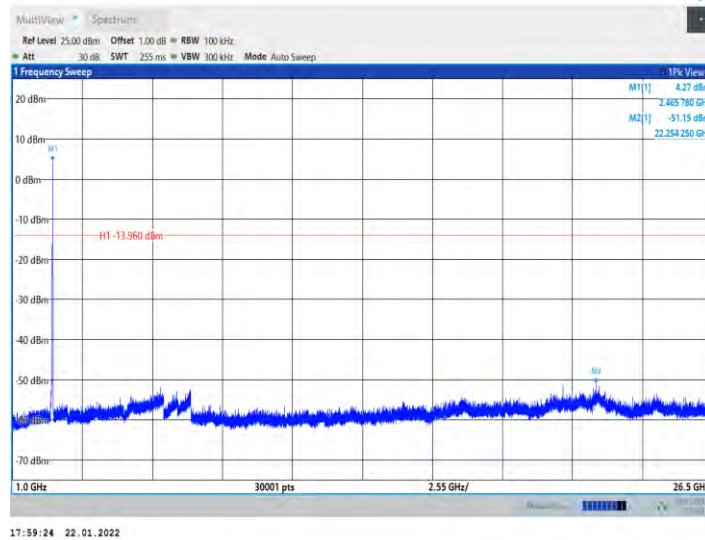
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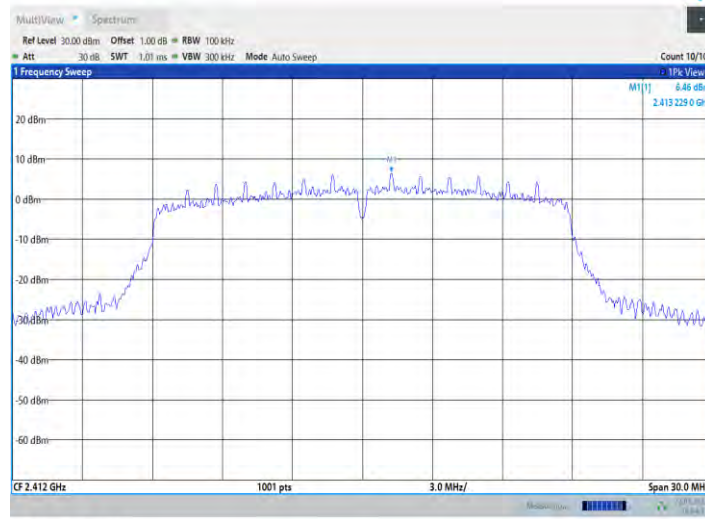


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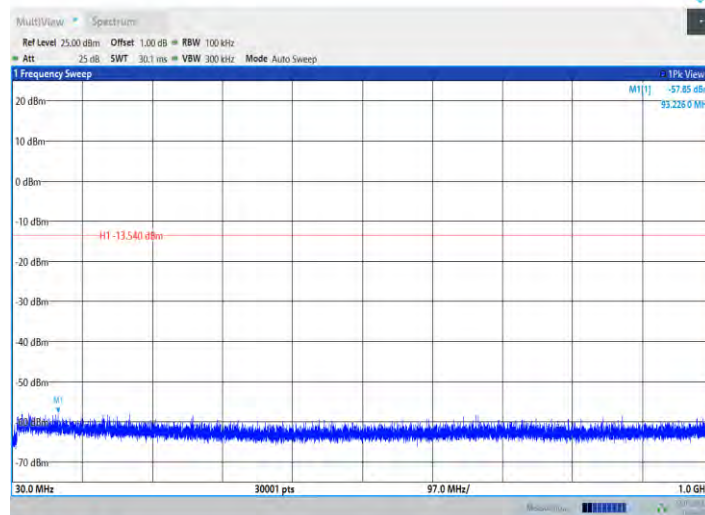
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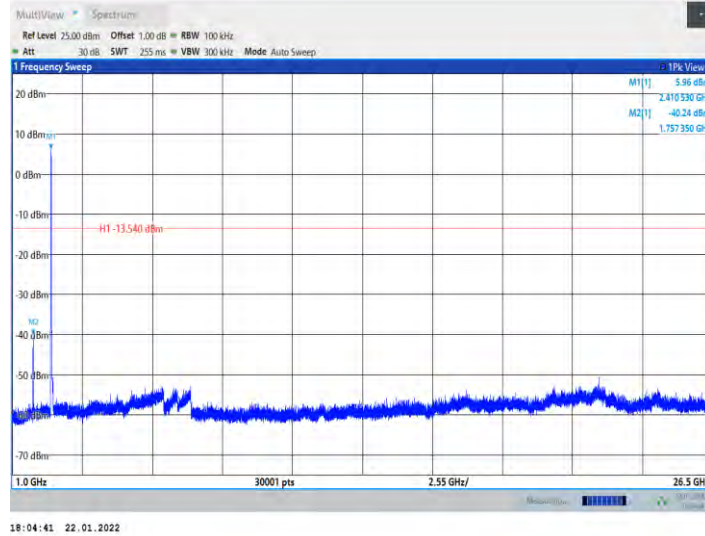


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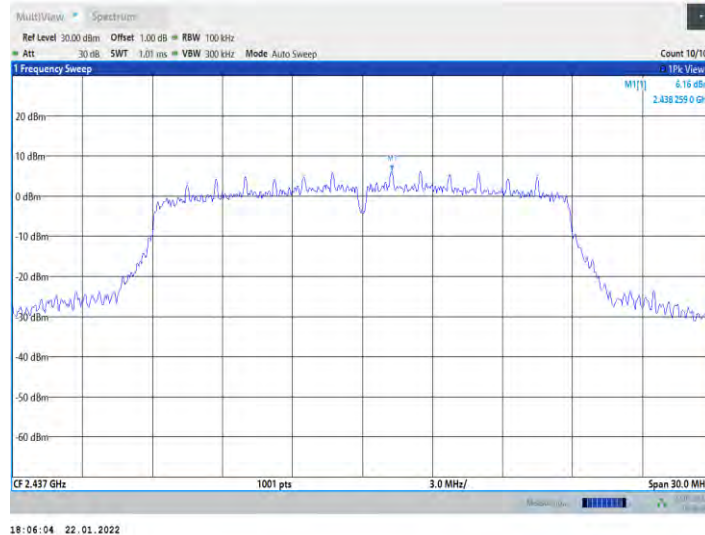
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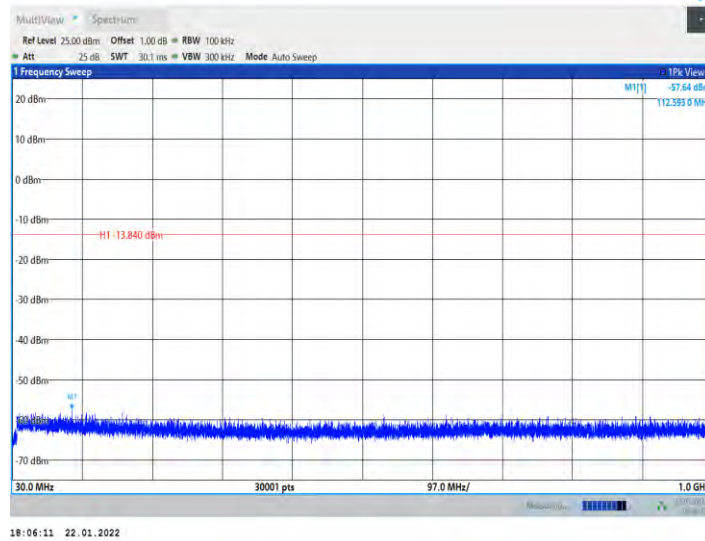


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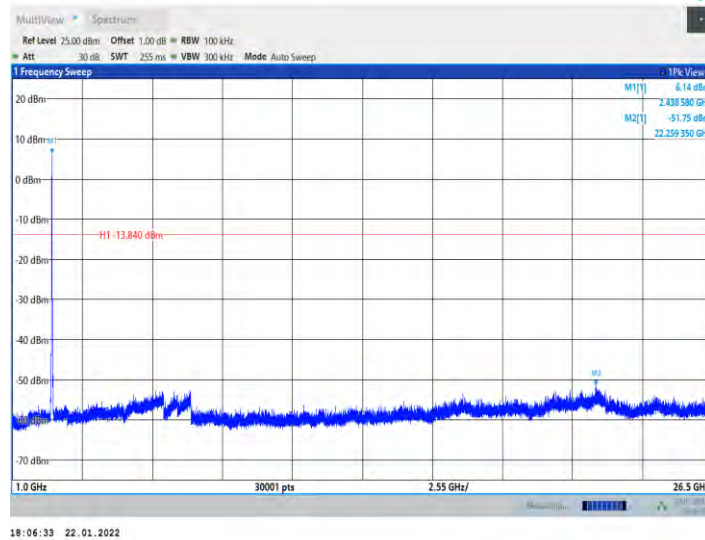
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18:06:11 22.01.2022

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18:06:33 22.01.2022

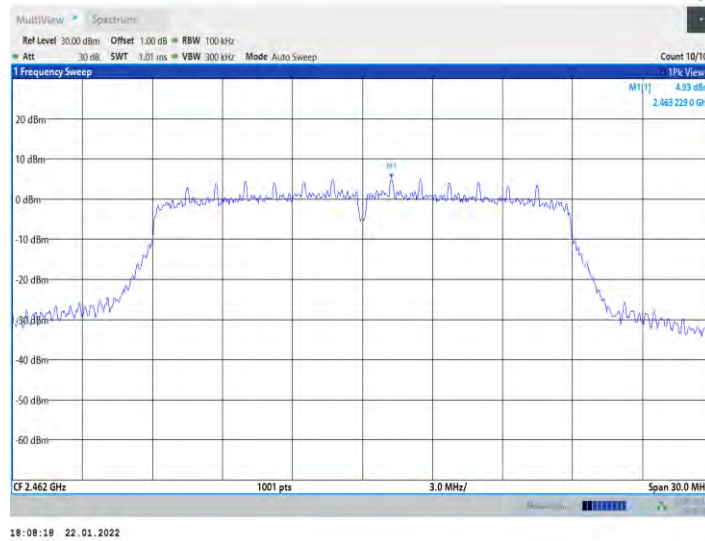


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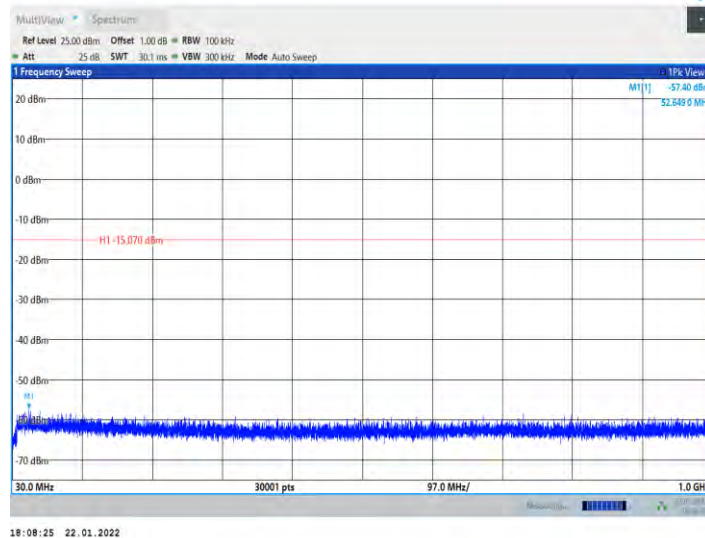
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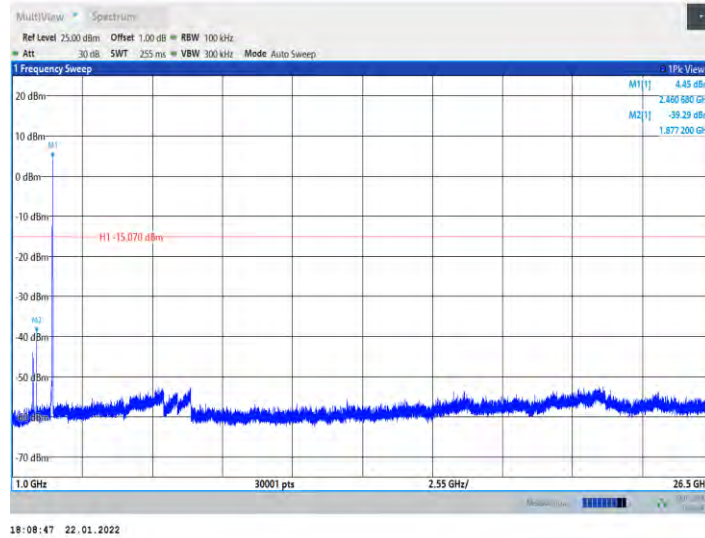


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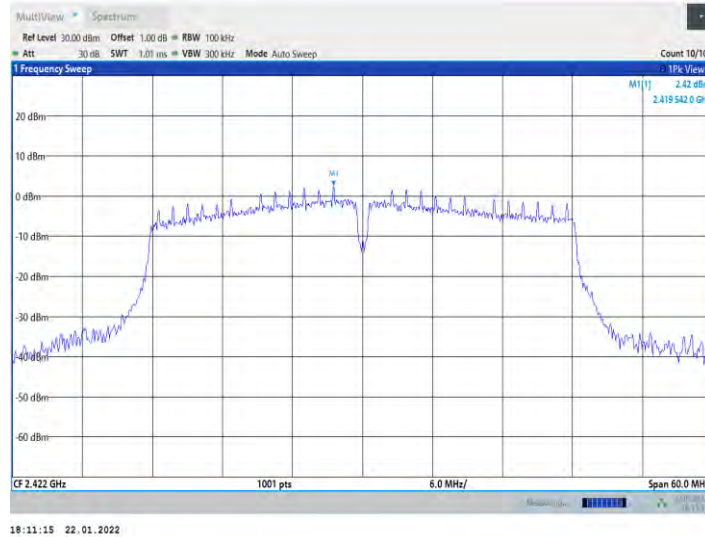
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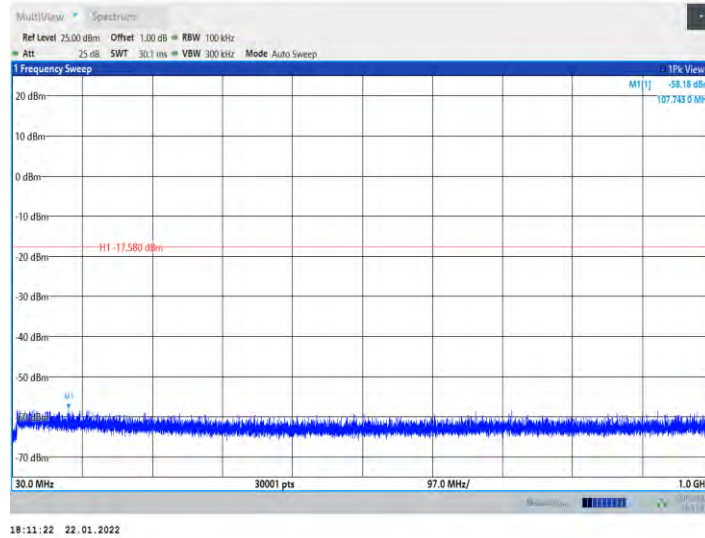


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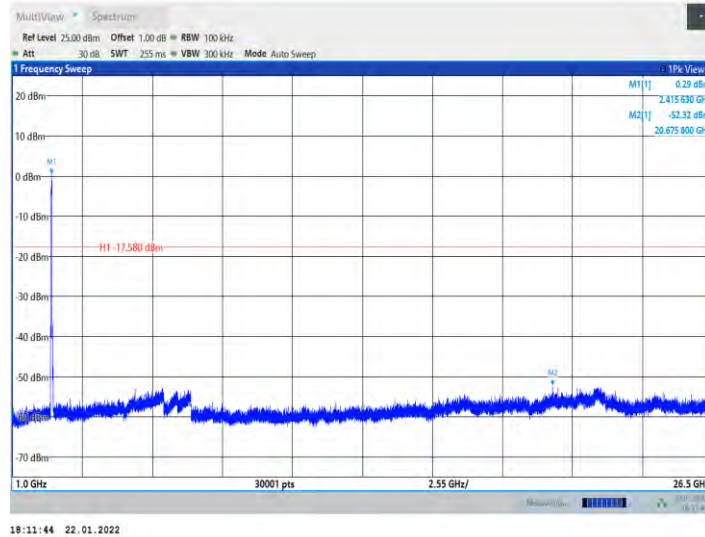
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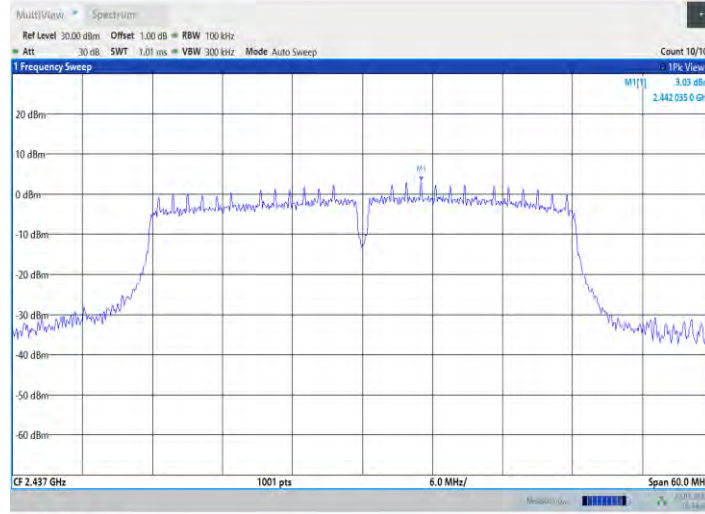


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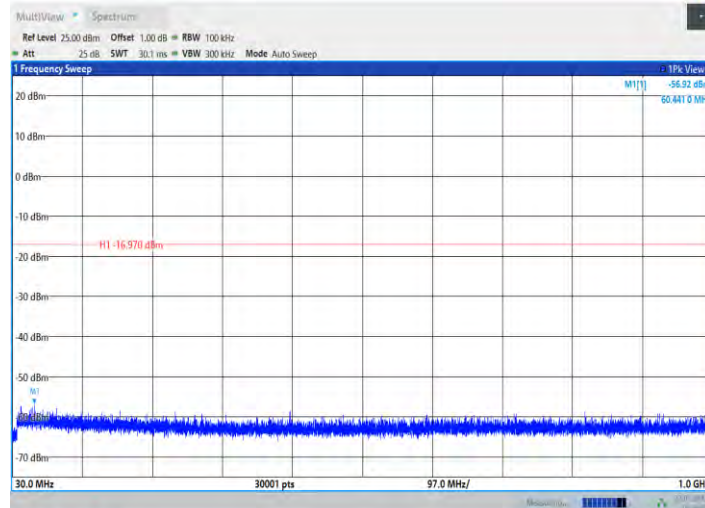
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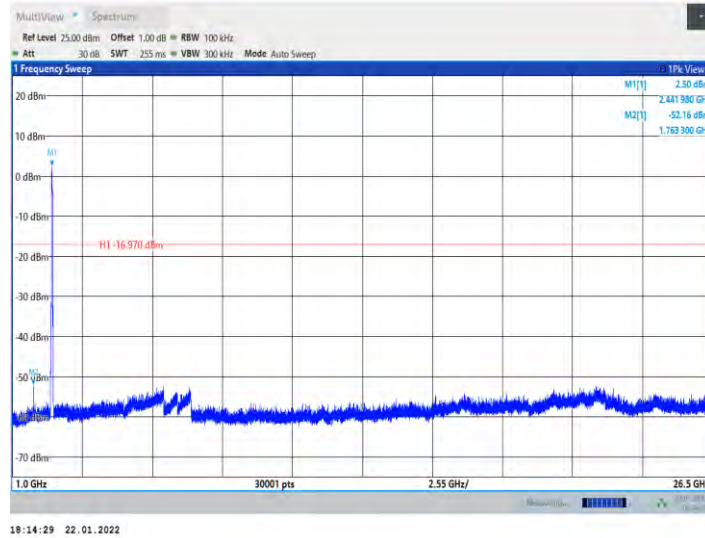


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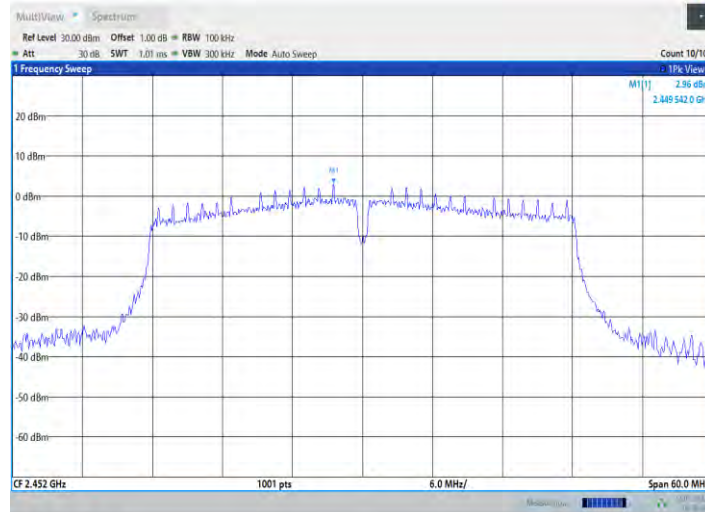
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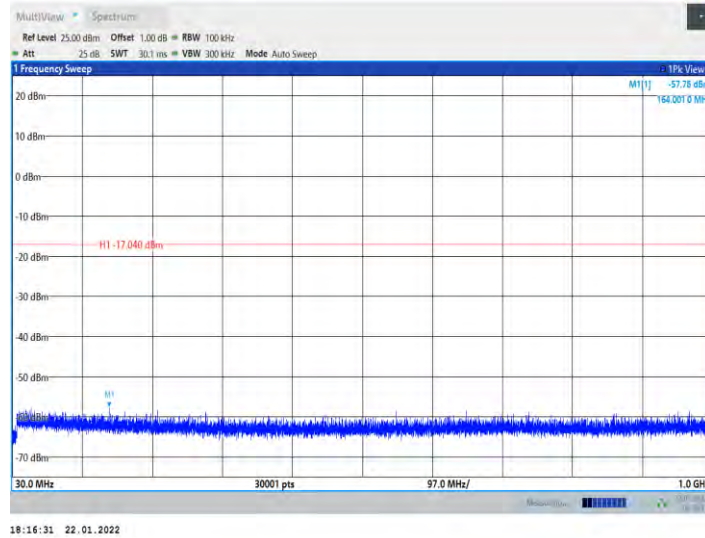


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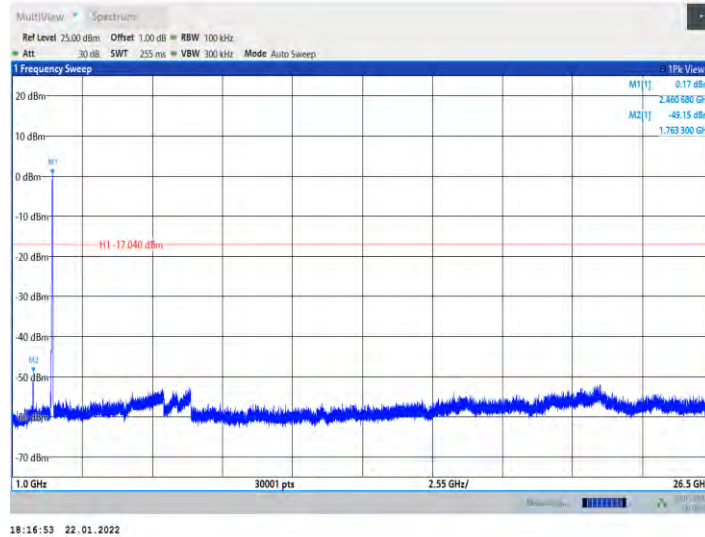
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**Duty Cycle
Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	8.38	8.42	99.52
		2437	8.40	8.43	99.64
		2462	8.38	8.43	99.41
11g	Ant1	2412	1.38	1.45	95.17
		2437	1.39	1.46	95.21
		2462	1.38	1.44	95.83
11n20SISO	Ant1	2412	1.29	1.35	95.56
		2437	1.29	1.35	95.56
		2462	1.29	1.35	95.56
11n40SISO	Ant1	2422	0.61	0.71	85.92
		2437	0.61	0.71	85.92
		2452	0.61	0.71	85.92



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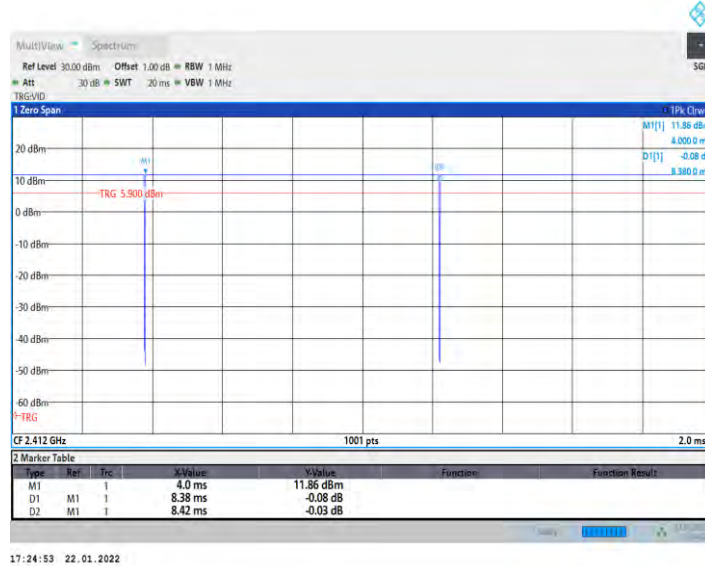
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Test Graphs

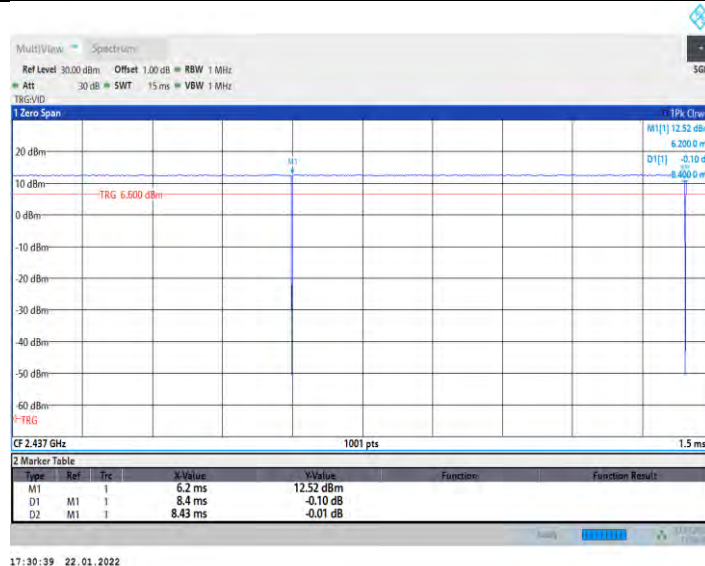
Test Graphs

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11B_Ant1_2437



17:30:39 22.01.2022

11B_Ant1_2462

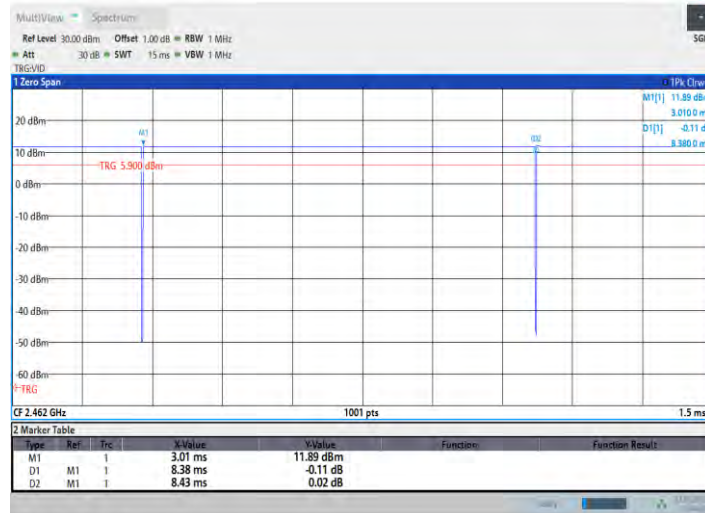


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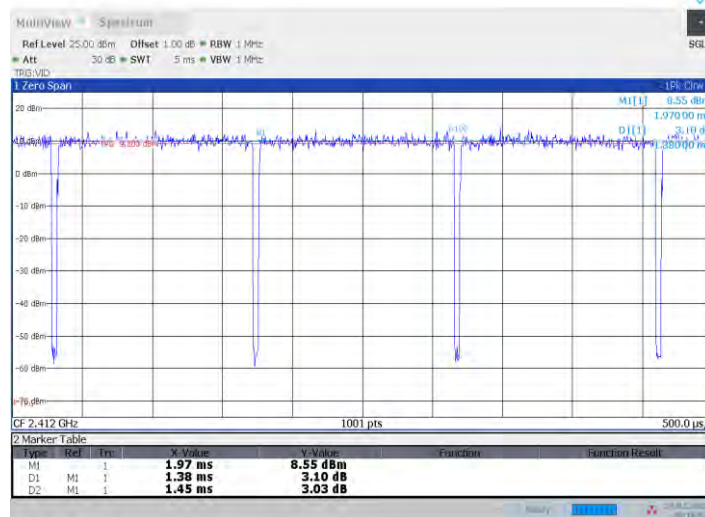
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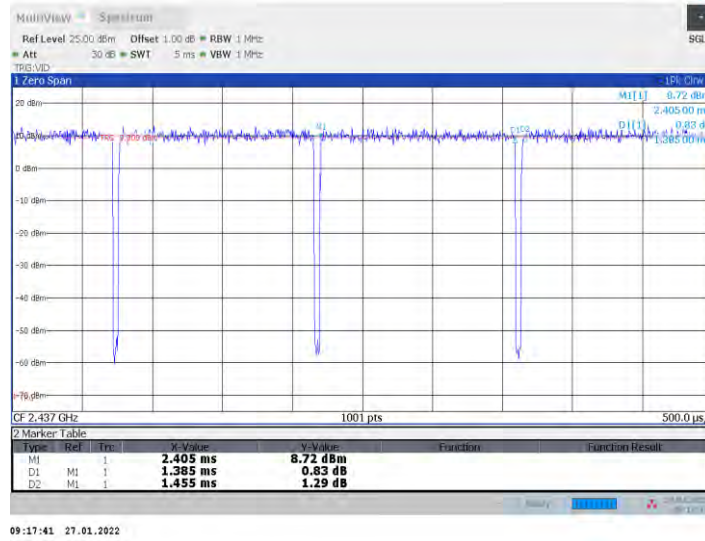
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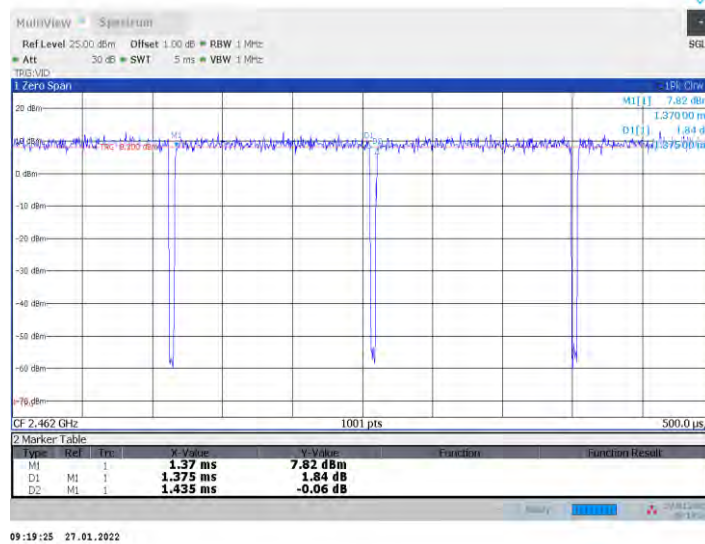
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11G_Ant1_2462



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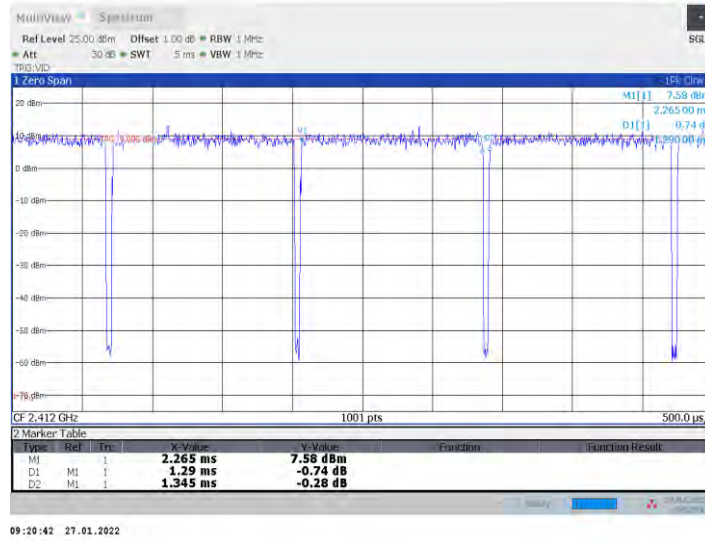


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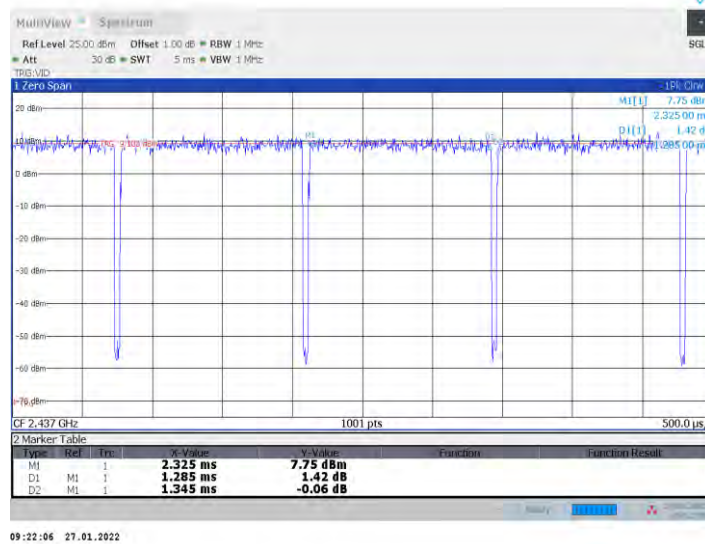
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

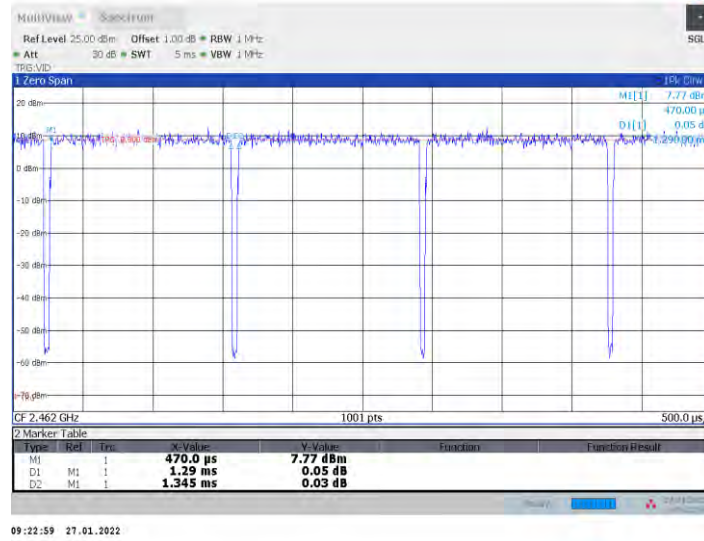


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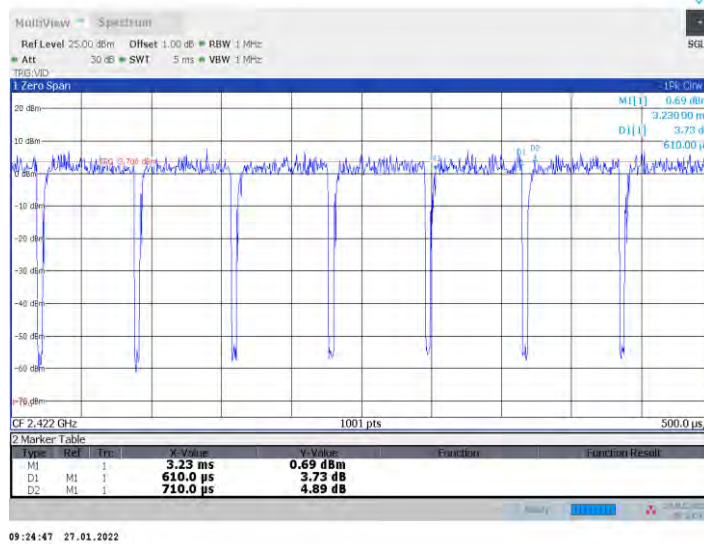
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

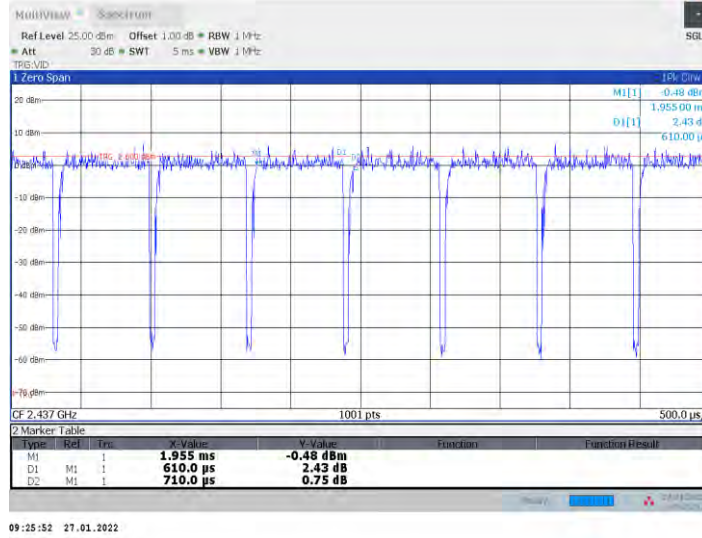


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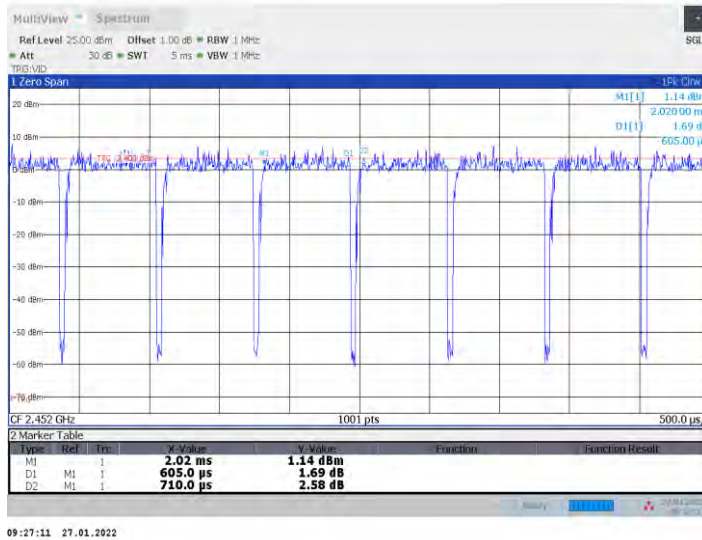
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11N40SISO_Ant1_2452



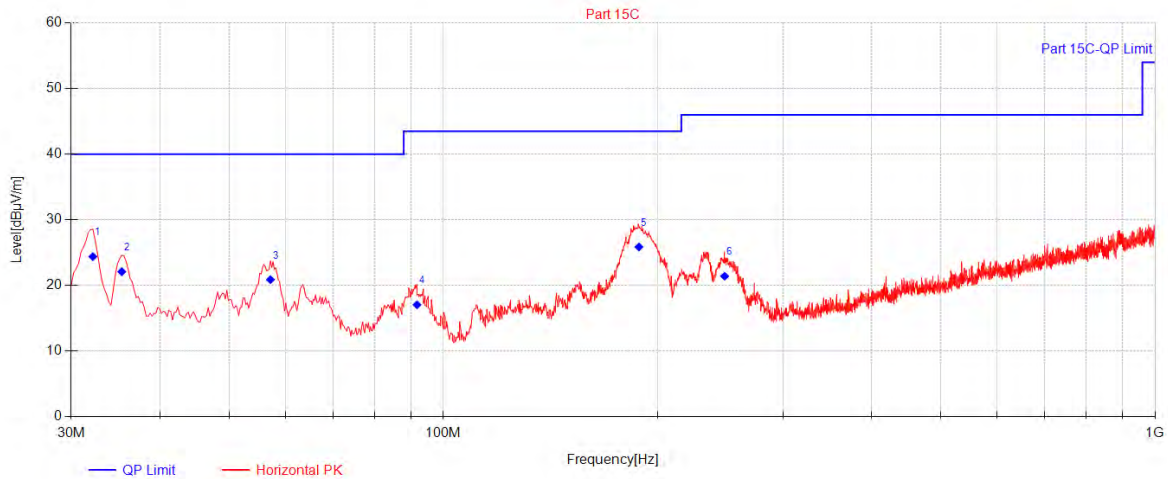
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Radiated Spurious Emissions
Emission 30M-1GHz
Worst case Mode:11b_Channel 01



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	32.1825	47.69	-23.31	24.38	40.00	15.62	196	150	Horizontal
2	35.335	45.12	-23.04	22.08	40.00	17.92	245	29	Horizontal
3	57.16	44.22	-23.35	20.87	40.00	19.13	189	348	Horizontal
4	91.8375	43.77	-26.74	17.03	43.50	26.47	261	244	Horizontal
5	188.3525	48.56	-22.70	25.86	43.50	17.64	140	224	Horizontal
6	248.4925	44.26	-22.87	21.39	46.00	24.61	177	182	Horizontal

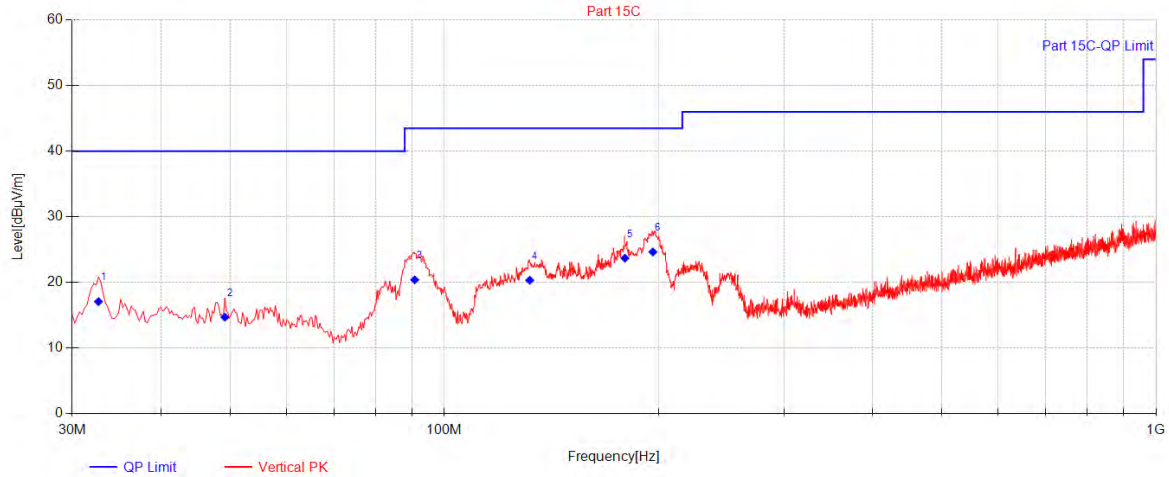


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Worst case Mode:11b_Channel 01



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	32.6675	40.33	-23.27	17.06	40.00	22.94	175	146	Vertical
2	49.1575	37.28	-22.59	14.69	40.00	25.31	169	115	Vertical
3	90.8675	47.25	-26.87	20.38	43.50	23.12	148	312	Vertical
4	131.85	43.02	-22.70	20.32	43.50	23.18	166	348	Vertical
5	179.38	44.25	-20.56	23.69	43.50	19.81	244	227	Vertical
6	196.355	49.11	-24.48	24.63	43.50	18.87	123	259	Vertical



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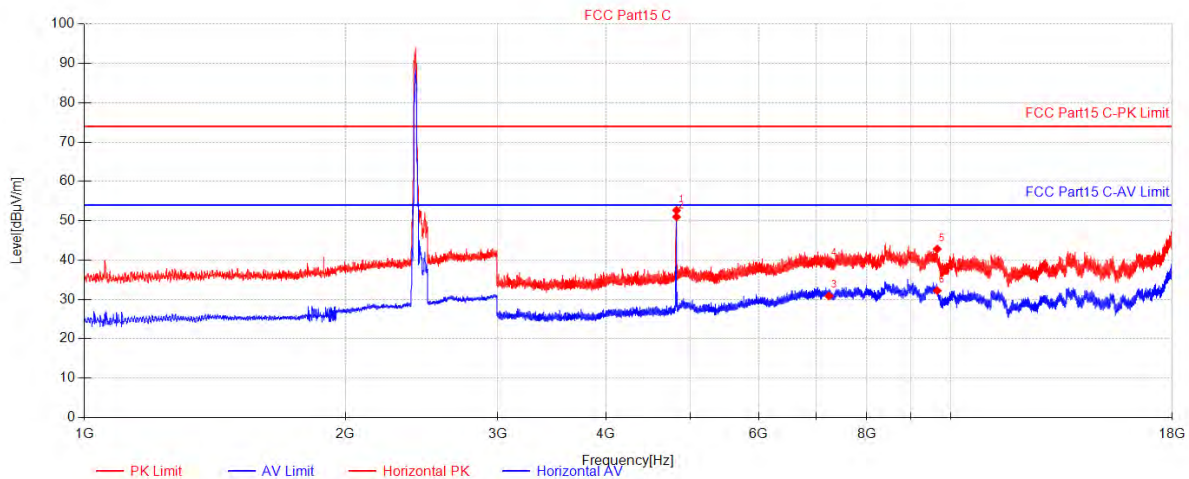
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Emission 1GHz-18GHz

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	65.80	-13.15	52.65	74.00	21.35	298	334	Horizontal
2	4824.5	64.14	-13.15	50.99	54.00	3.01	185	357	Horizontal
3	7236	37.84	-6.96	30.88	54.00	23.12	193	356	Horizontal
4	7236	45.99	-6.96	39.03	74.00	34.97	145	206	Horizontal
5	9648	43.99	-1.17	42.82	74.00	31.18	226	309	Horizontal
6	9648	33.40	-1.17	32.23	54.00	21.77	120	256	Horizontal

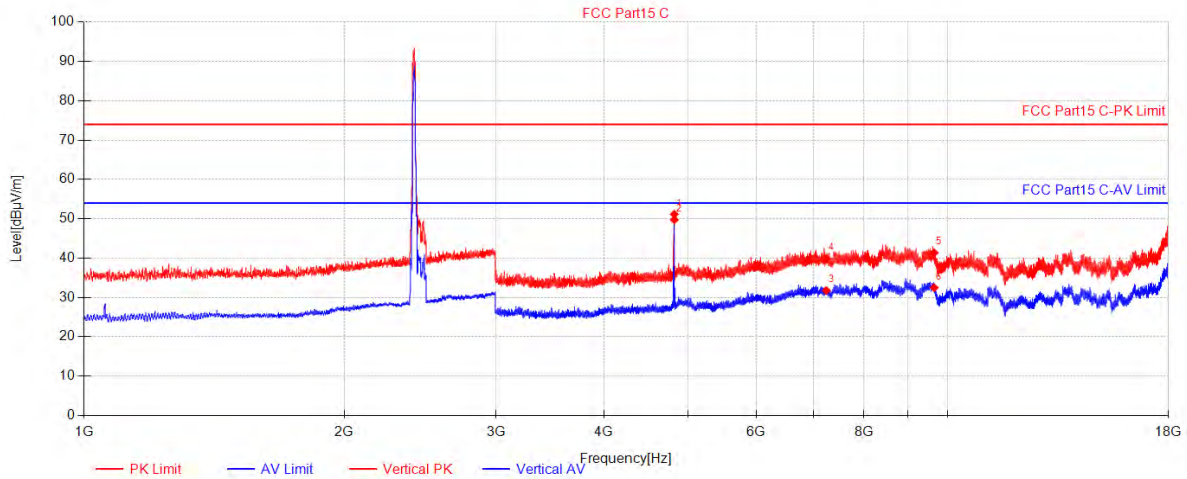


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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	64.29	-13.15	51.14	74.00	22.86	185	251	Vertical
2	4824.5	62.89	-13.15	49.74	54.00	4.26	159	258	Vertical
3	7236	38.71	-6.96	31.75	54.00	22.25	126	55	Vertical
4	7236	46.89	-6.96	39.93	74.00	34.07	196	207	Vertical
5	9648	42.52	-1.17	41.35	74.00	32.65	174	233	Vertical
6	9648	33.65	-1.17	32.48	54.00	21.52	245	123	Vertical

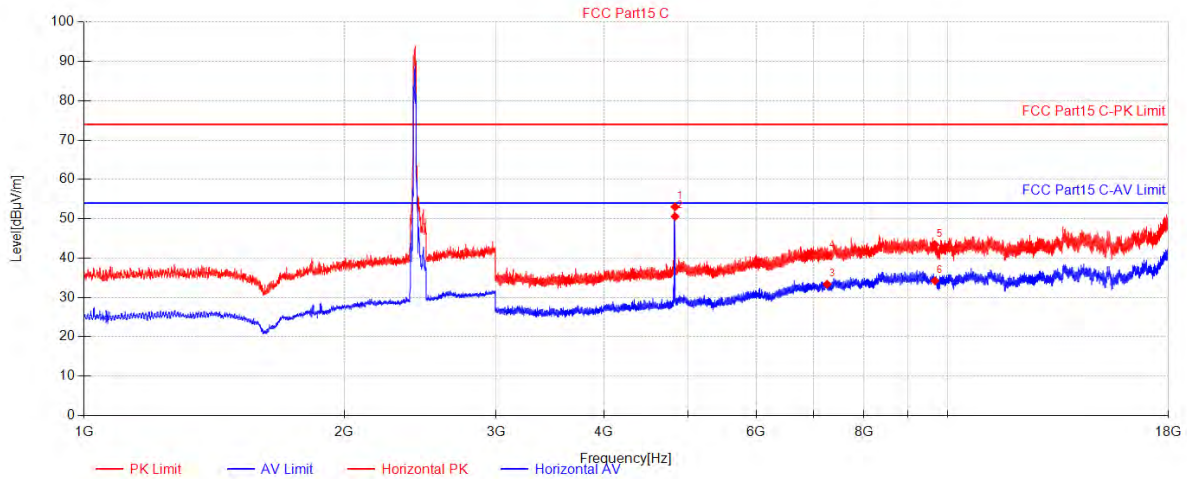


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802.11b_Channel 02



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4834	66.15	-13.12	53.03	74.00	20.97	236	358	Horizontal
2	4834.5	63.71	-13.12	50.59	54.00	3.41	155	348	Horizontal
3	7251	40.39	-7.02	33.37	54.00	20.63	120	78	Horizontal
4	7251	47.60	-7.02	40.58	74.00	33.42	214	358	Horizontal
5	9668	44.54	-1.15	43.39	74.00	30.61	296	179	Horizontal
6	9668	35.38	-1.15	34.23	54.00	19.77	178	226	Horizontal

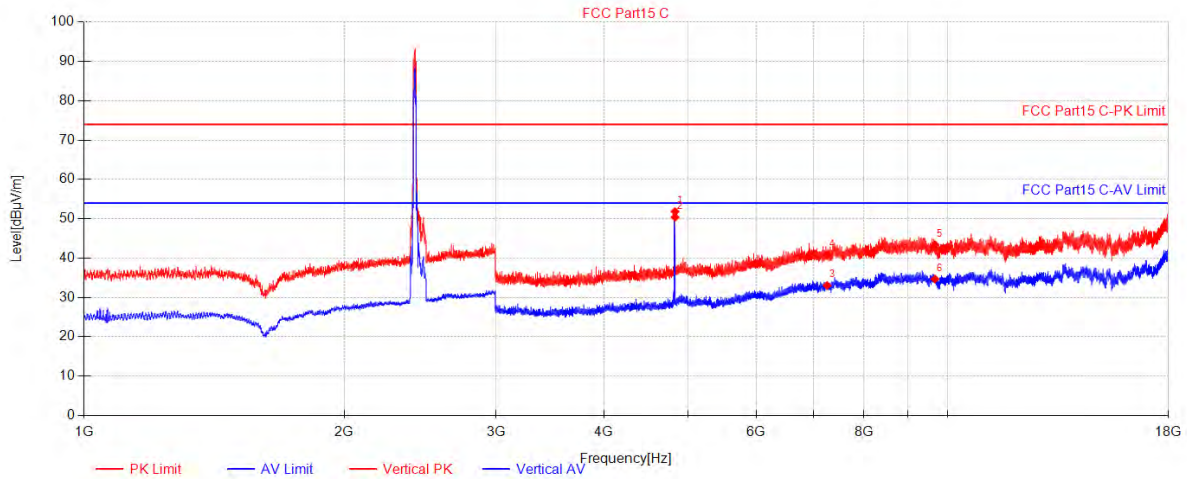


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802.11b_Channel 02



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4834	64.96	-13.12	51.84	74.00	22.16	189	253	Vertical
2	4834.5	63.51	-13.12	50.39	54.00	3.61	144	253	Vertical
3	7251	40.07	-7.02	33.05	54.00	20.95	129	360	Vertical
4	7251	47.83	-7.02	40.81	74.00	33.19	221	227	Vertical
5	9668	44.56	-1.15	43.41	74.00	30.59	165	49	Vertical
6	9668	35.84	-1.15	34.69	54.00	19.31	174	331	Vertical

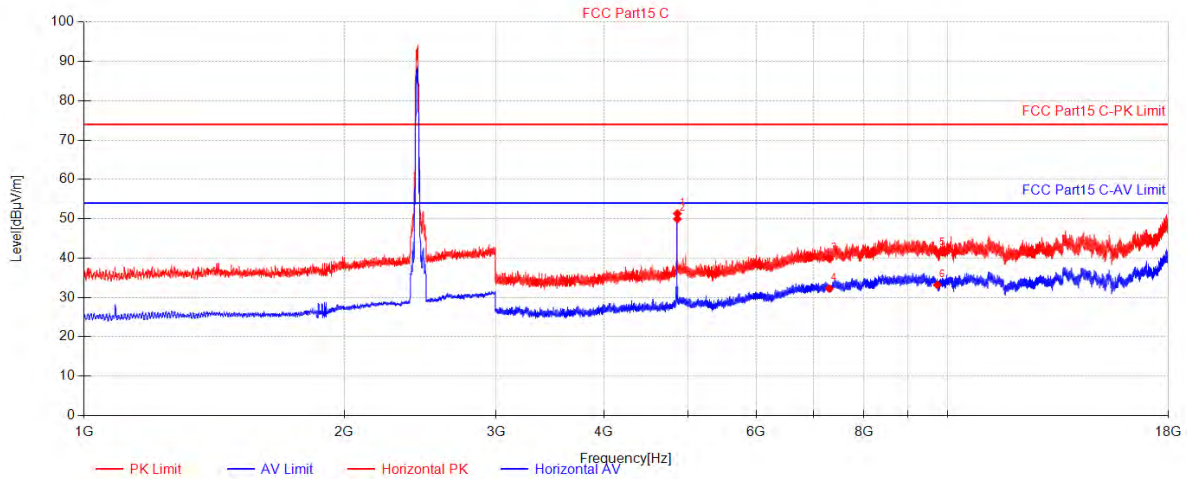


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802.11b_Channel 05



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4864	64.36	-13.03	51.33	74.00	22.67	189	309	Horizontal
2	4864.5	62.96	-13.03	49.93	54.00	4.07	211	310	Horizontal
3	7296	47.05	-7.19	39.86	74.00	34.14	126	163	Horizontal
4	7296	39.45	-7.19	32.26	54.00	21.74	174	335	Horizontal
5	9728	42.44	-1.15	41.29	74.00	32.71	214	125	Horizontal
6	9728	34.33	-1.15	33.18	54.00	20.82	169	2	Horizontal

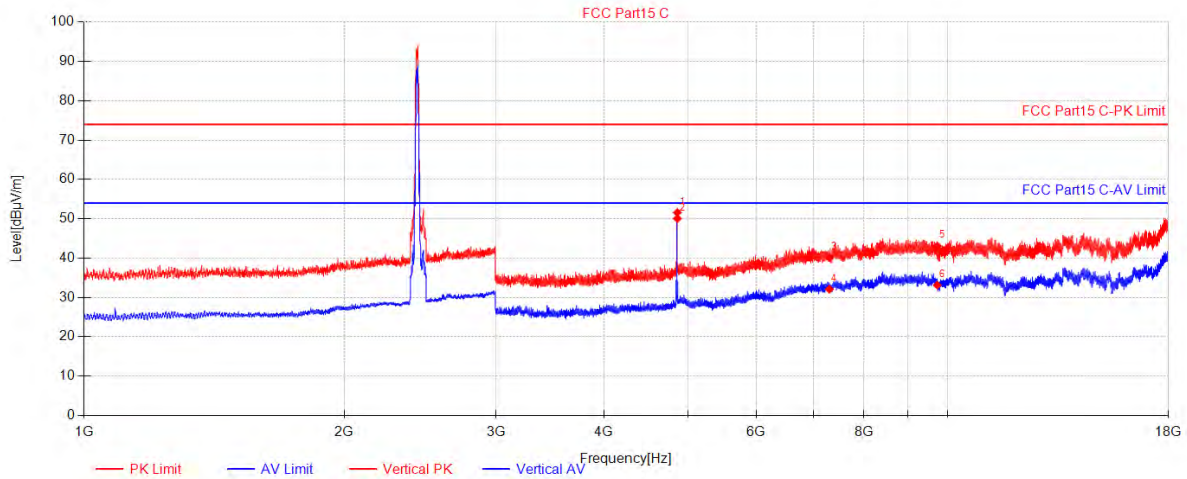


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802.11b_Channel 05



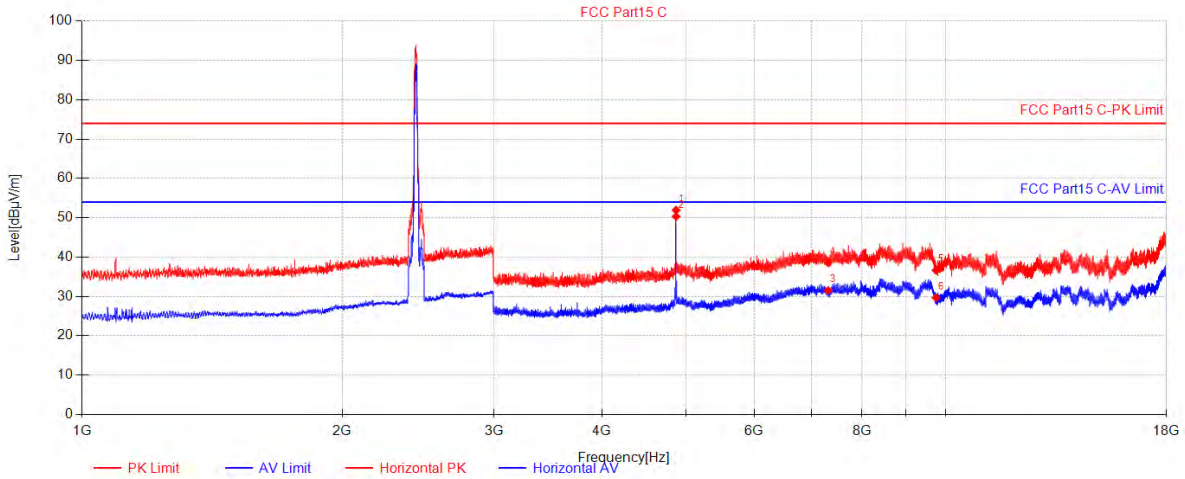
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4864	64.61	-13.03	51.58	74.00	22.42	145	260	Vertical
2	4864.5	63.08	-13.03	50.05	54.00	3.95	196	244	Vertical
3	7296	47.34	-7.19	40.15	74.00	33.85	124	270	Vertical
4	7296	39.28	-7.19	32.09	54.00	21.91	111	108	Vertical
5	9728	44.24	-1.15	43.09	74.00	30.91	173	356	Vertical
6	9728	34.28	-1.15	33.13	54.00	20.87	145	4	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	64.95	-13.01	51.94	74.00	22.06	166	320	Horizontal
2	4874.5	63.32	-13.00	50.32	54.00	3.68	174	357	Horizontal
3	7311	38.72	-7.17	31.55	54.00	22.45	230	320	Horizontal
4	7311	45.75	-7.17	38.58	74.00	35.42	185	85	Horizontal
5	9748	37.82	-1.18	36.64	74.00	37.36	196	297	Horizontal
6	9748	30.86	-1.18	29.68	54.00	24.32	124	336	Horizontal



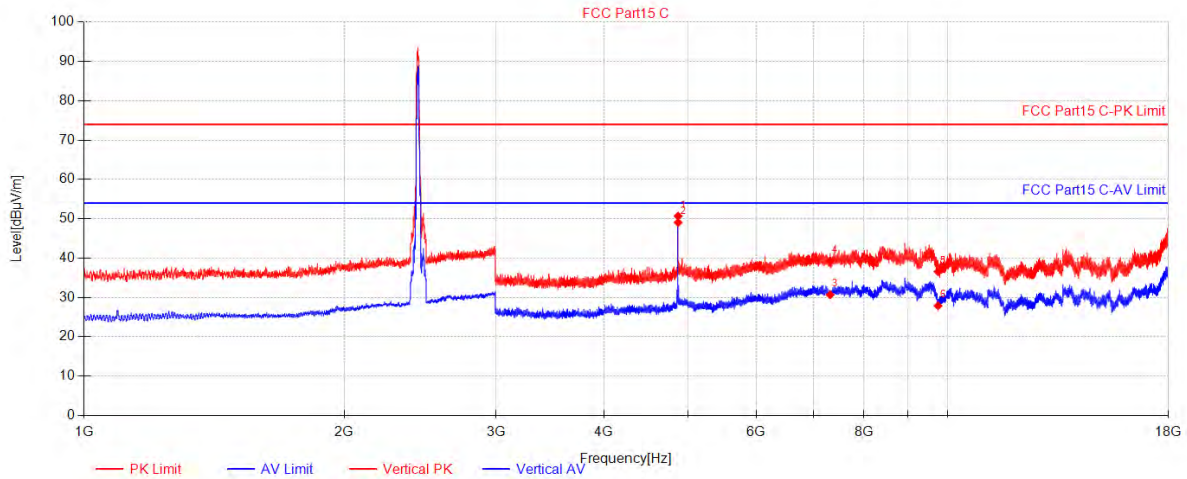
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802.11b_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	63.70	-13.01	50.69	74.00	23.31	156	258	Vertical
2	4874.5	62.06	-13.00	49.06	54.00	4.94	254	111	Vertical
3	7311	37.84	-7.17	30.67	54.00	23.33	195	122	Vertical
4	7311	46.44	-7.17	39.27	74.00	34.73	221	10	Vertical
5	9748	37.74	-1.18	36.56	74.00	37.44	264	156	Vertical
6	9748	29.06	-1.18	27.88	54.00	26.12	175	265	Vertical

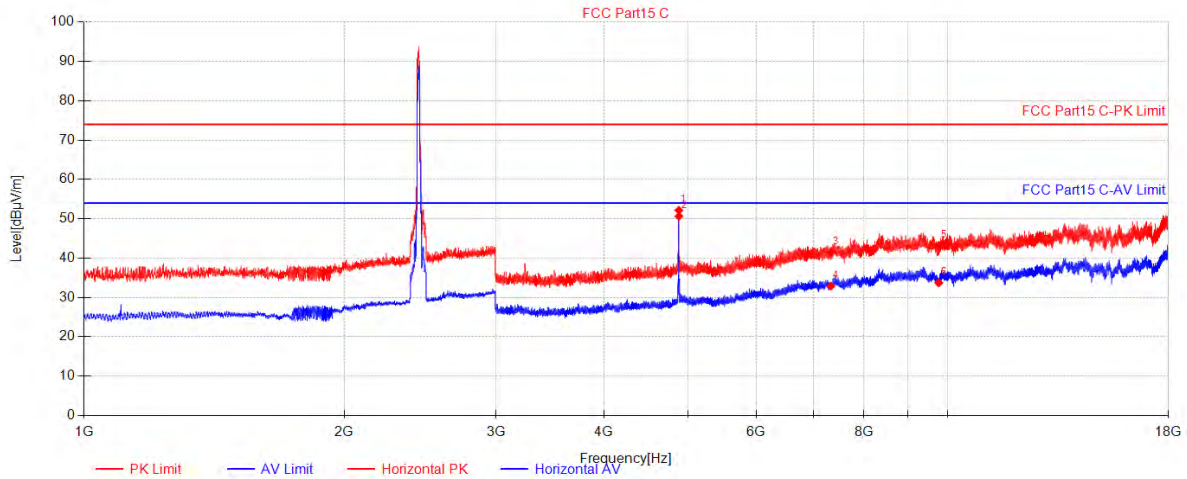


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802.11b_Channel 07



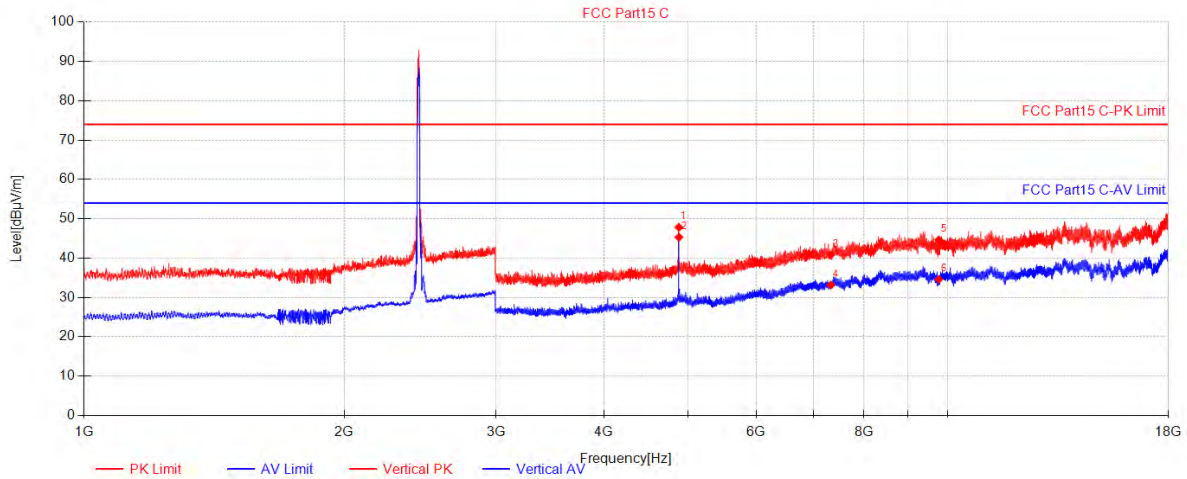
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1	4884	65.13	-12.98	52.15	74.00	21.85	196	335	Horizontal
2	4884.5	63.60	-12.97	50.63	54.00	3.37	125	357	Horizontal
3	7326	48.60	-7.13	41.47	74.00	32.53	146	260	Horizontal
4	7326	40.03	-7.13	32.90	54.00	21.10	188	53	Horizontal
5	9768	44.44	-1.21	43.23	74.00	30.77	135	284	Horizontal
6	9768	34.95	-1.21	33.74	54.00	20.26	172	310	Horizontal



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802.11b_Channel 07



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4884	60.80	-12.98	47.82	74.00	26.18	189	206	Vertical
2	4884.5	58.28	-12.97	45.31	54.00	8.69	154	232	Vertical
3	7326	48.01	-7.13	40.88	74.00	33.12	163	251	Vertical
4	7326	40.33	-7.13	33.20	54.00	20.80	230	232	Vertical
5	9768	45.83	-1.21	44.62	74.00	29.38	222	231	Vertical
6	9768	35.81	-1.21	34.60	54.00	19.40	178	169	Vertical

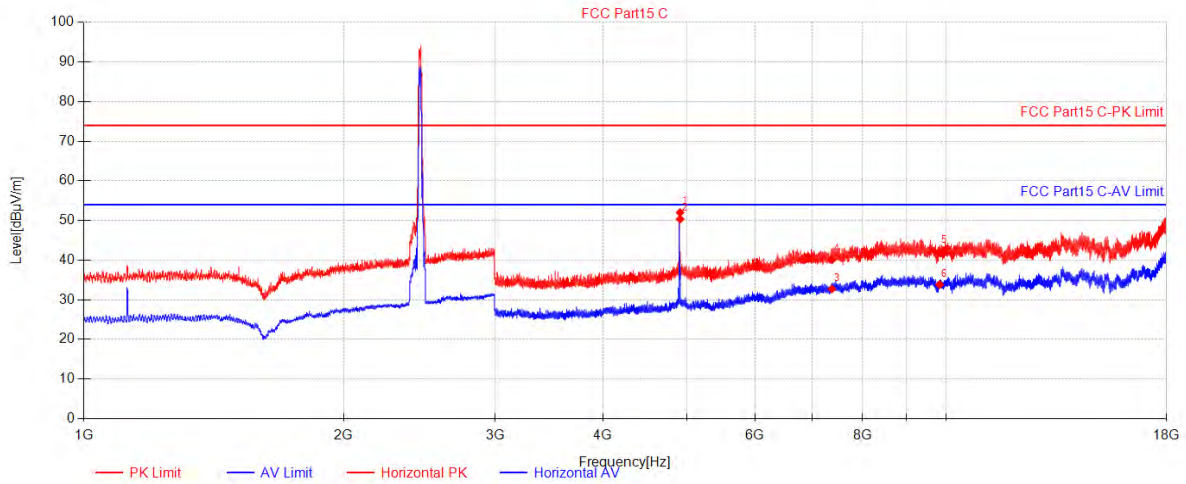


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802.11b_Channel 10



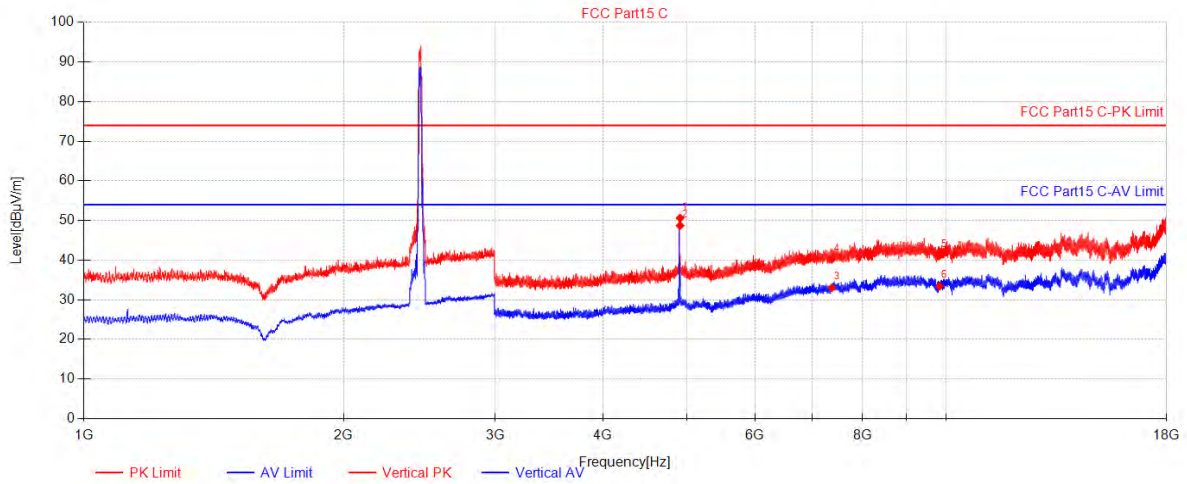
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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4914	64.93	-12.91	52.02	74.00	21.98	165	358	Horizontal
2	4914.5	63.27	-12.91	50.36	54.00	3.64	196	358	Horizontal
3	7371	39.73	-7.00	32.73	54.00	21.27	120	360	Horizontal
4	7371	47.12	-7.00	40.12	74.00	33.88	231	279	Horizontal
5	9828	43.43	-1.18	42.25	74.00	31.75	154	349	Horizontal
6	9828	35.01	-1.18	33.83	54.00	20.17	145	252	Horizontal



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802.11b_Channel 10



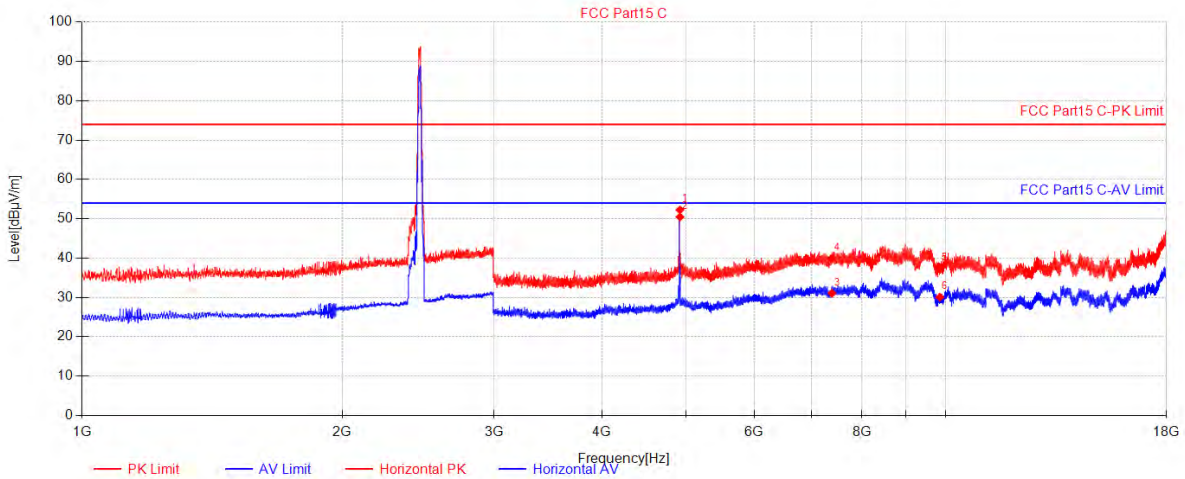
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4914	63.51	-12.91	50.60	74.00	23.40	189	281	Vertical
2	4914.5	61.62	-12.91	48.71	54.00	5.29	179	255	Vertical
3	7371	40.02	-7.00	33.02	54.00	20.98	182	360	Vertical
4	7371	47.21	-7.00	40.21	74.00	33.79	154	360	Vertical
5	9828	42.33	-1.18	41.15	74.00	32.85	166	123	Vertical
6	9828	34.61	-1.18	33.43	54.00	20.57	174	360	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	65.15	-12.89	52.26	74.00	21.74	224	50	Horizontal
2	4924.5	63.35	-12.89	50.46	54.00	3.54	296	356	Horizontal
3	7386	38.02	-6.96	31.06	54.00	22.94	120	309	Horizontal
4	7386	46.98	-6.96	40.02	74.00	33.98	275	357	Horizontal
5	9848	38.43	-1.12	37.31	74.00	36.69	126	185	Horizontal
6	9848	31.21	-1.12	30.09	54.00	23.91	248	206	Horizontal

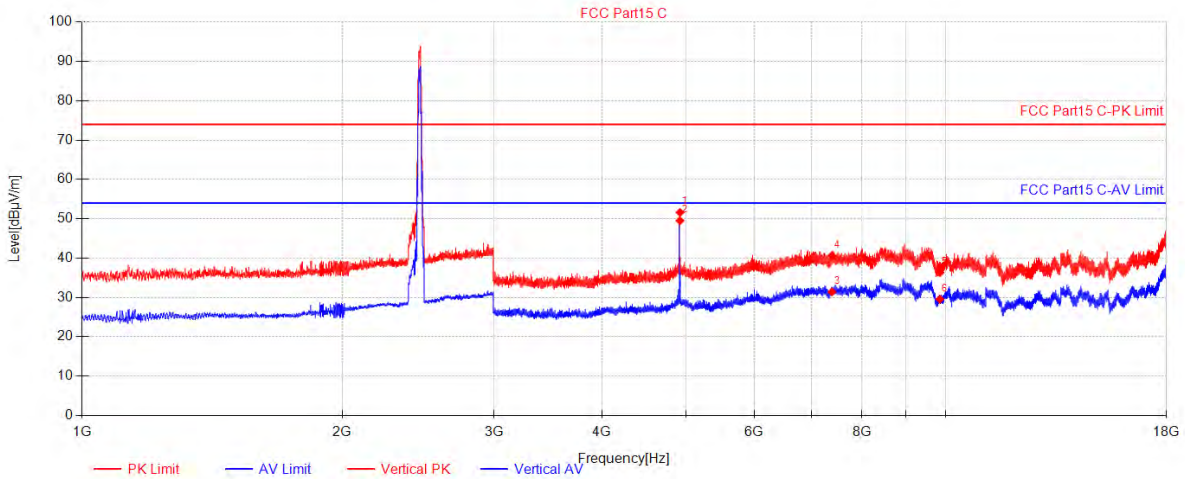


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	64.50	-12.89	51.61	74.00	22.39	166	257	Vertical
2	4924.5	62.40	-12.89	49.51	54.00	4.49	296	185	Vertical
3	7386	38.37	-6.96	31.41	54.00	22.59	231	58	Vertical
4	7386	47.61	-6.96	40.65	74.00	33.35	144	182	Vertical
5	9848	37.43	-1.12	36.31	74.00	37.69	278	107	Vertical
6	9848	30.68	-1.12	29.56	54.00	24.44	126	335	Vertical

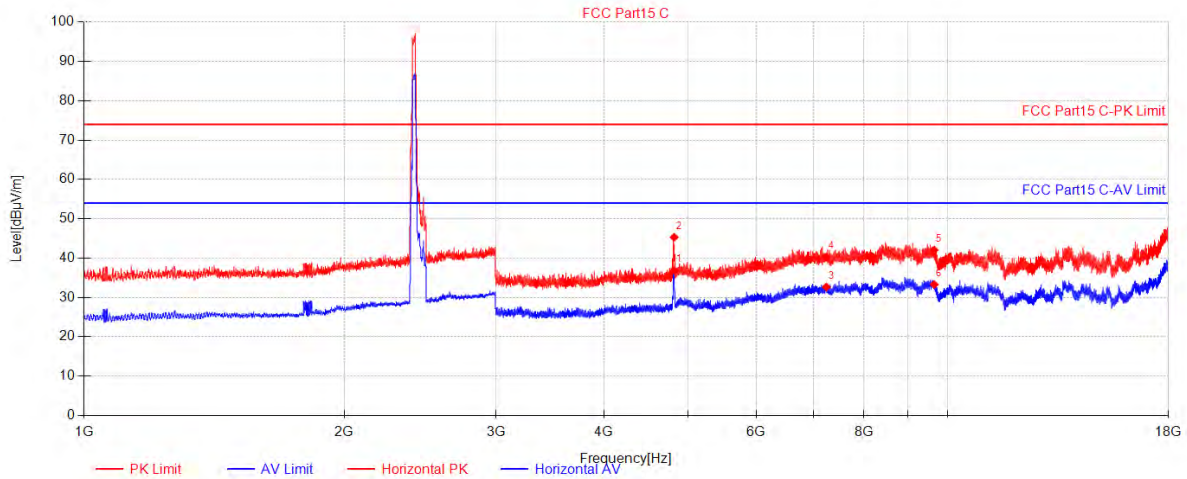


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4821.5	50.06	-13.16	36.90	54.00	17.10	123	126	Horizontal
2	4822.5	58.44	-13.15	45.29	74.00	28.71	169	358	Horizontal
3	7236	39.62	-6.96	32.66	54.00	21.34	175	200	Horizontal
4	7236	47.24	-6.96	40.28	74.00	33.72	125	48	Horizontal
5	9648	43.22	-1.17	42.05	74.00	31.95	185	347	Horizontal
6	9648	34.46	-1.17	33.29	54.00	20.71	122	360	Horizontal



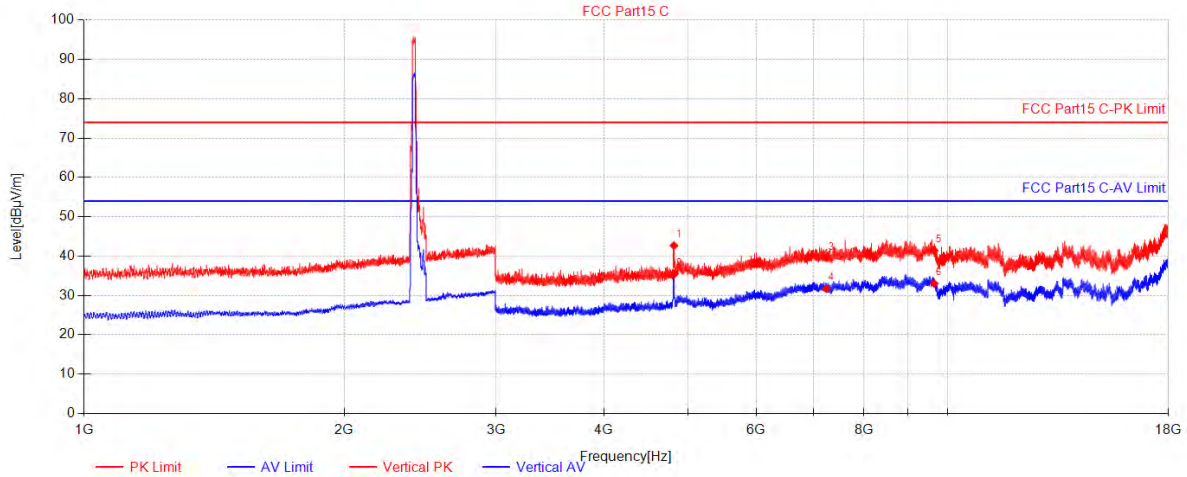
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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4820.5	55.83	-13.16	42.67	74.00	31.33	185	276	Vertical
2	4827	48.63	-13.14	35.49	54.00	18.51	142	252	Vertical
3	7236	46.55	-6.96	39.59	74.00	34.41	215	302	Vertical
4	7236	38.68	-6.96	31.72	54.00	22.28	210	100	Vertical
5	9648	42.57	-1.17	41.40	74.00	32.60	169	129	Vertical
6	9648	34.21	-1.17	33.04	54.00	20.96	184	115	Vertical



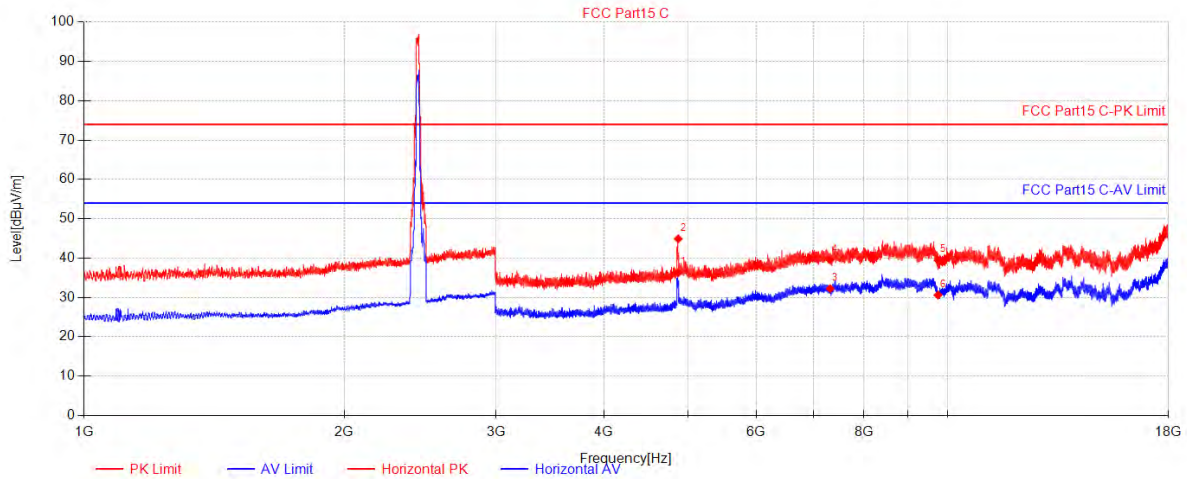
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802.11g_Channel 06



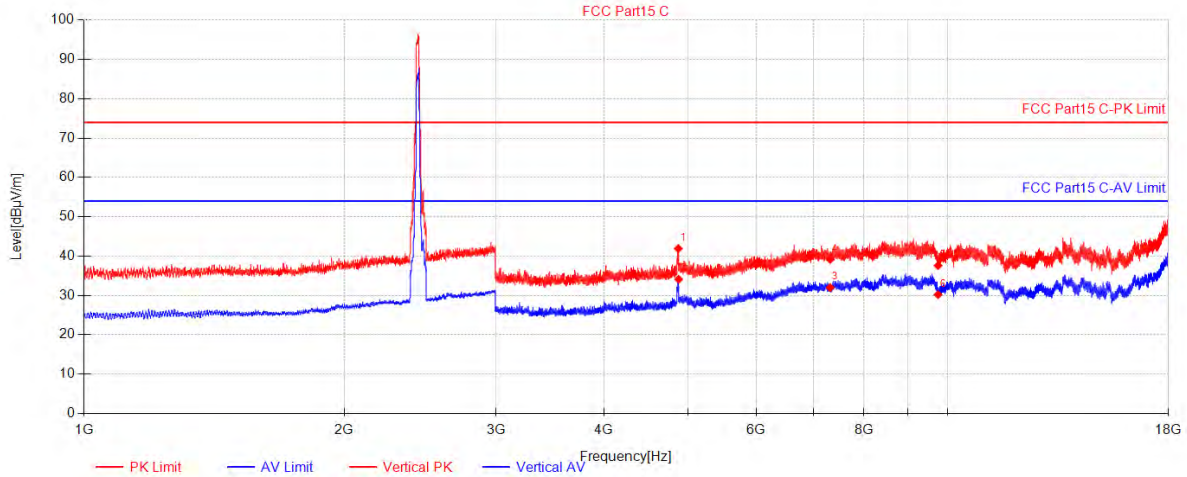
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.5	49.26	-13.01	36.25	54.00	17.75	145	347	Horizontal
2	4875.5	57.89	-13.00	44.89	74.00	29.11	163	349	Horizontal
3	7311	39.41	-7.17	32.24	54.00	21.76	196	302	Horizontal
4	7311	46.74	-7.17	39.57	74.00	34.43	182	100	Horizontal
5	9748	40.64	-1.18	39.46	74.00	34.54	193	360	Horizontal
6	9748	31.79	-1.18	30.61	54.00	23.39	152	360	Horizontal



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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	4877	54.91	-13.00	41.91	74.00	32.09	222	273	Vertical
2	4880.5	47.10	-12.99	34.11	54.00	19.89	216	246	Vertical
3	7311	39.17	-7.17	32.00	54.00	22.00	178	3	Vertical
4	7311	46.31	-7.17	39.14	74.00	34.86	214	97	Vertical
5	9748	38.76	-1.18	37.58	74.00	36.42	159	357	Vertical
6	9748	31.37	-1.18	30.19	54.00	23.81	191	122	Vertical



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