

Report No.: SEWA2205000012RG04

Rev.: 01

Page: 1 of 119

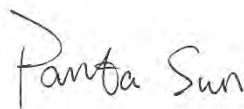
TEST REPORT

Application No.: SEWA2205000012RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Multi-mode Smart LTE Module
Model No.: SC200E-NA
Trade Mark: Quectel
FCC ID: XMR2022SC200ENA
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/5/7
Date of Test: 2022/5/10 to 2022/6/24
Date of Issue: 2022/6/24

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:




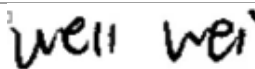
Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/6/24		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to customer statement, SC200E-NA has two versions of samples, full test LPDDR4X version, LPDDR3 version to check LPDDR4X worse mode, the final report only presents the worst data of the two versions.



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

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:	Lves Cheng, 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:	Multi-mode Smart LTE Module	
Model No.:	SC200E-NA	
Trade Mark:	Quectel	
Hardware Version:	LPDDR4X: R1.0 LPDDR3: R1.1	
Software Version:	LPDDR4X:SC200ENANAR01A03 LPDDR3: SC200ENATAR02A01	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	0.47dBi(Ant0)	
RF Cable*:	<input checked="" type="checkbox"/> Provided by client	
	0.5dB	
<p>Note: *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> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</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	44~60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTNV	-35	3.8
HTNV	75	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

Description	Manufacturer	Model No.
Mother board	Quectel	EVB-G2 V1.3
Remark: all above the information of table are provided by client.		

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<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>Non-standard antenna connector is used. The antenna peak gain of EUT is less than 6 dBi, Therefore, it is not necessary to reduce maximum peak output power limit.</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 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
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>Refer to section 3.7 for details. 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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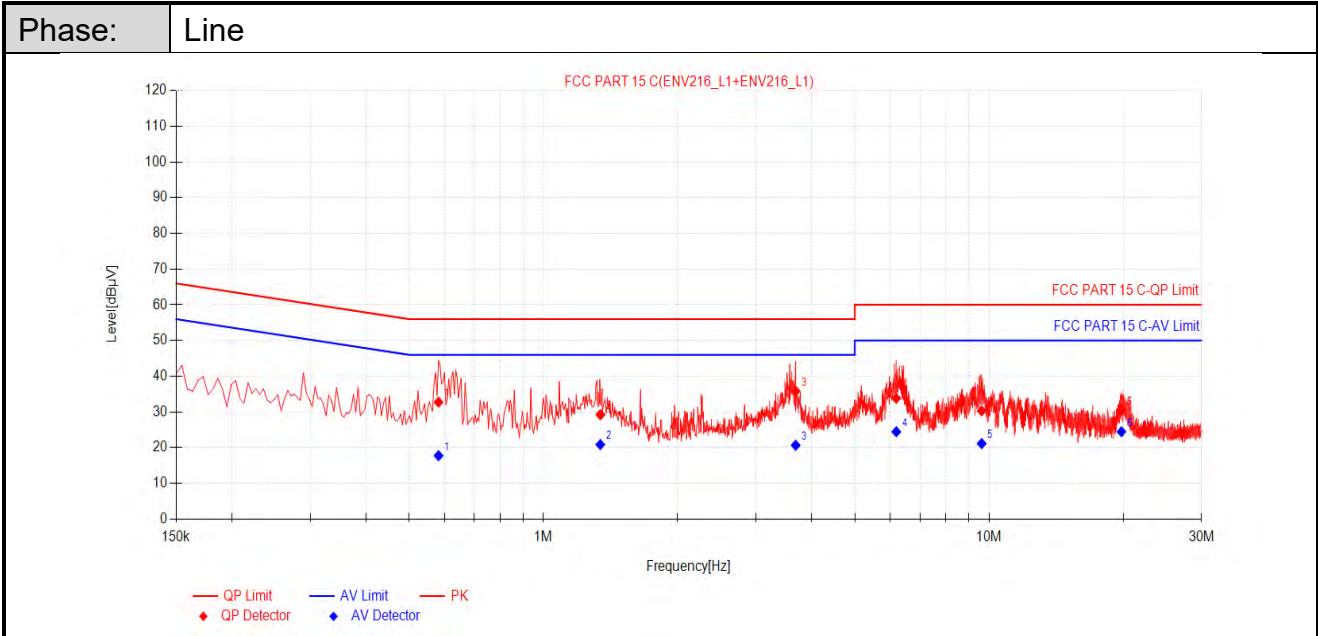
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Measurement Data

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.



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5820	10.52	22.24	32.76	56.00	23.24	7.24	17.76	46.00	28.24	PASS
2	1.3425	10.78	18.46	29.24	56.00	26.76	10.09	20.87	46.00	25.13	PASS
3	3.6825	10.71	25.14	35.85	56.00	20.15	9.96	20.67	46.00	25.33	PASS
4	6.1935	10.67	23.15	33.82	60.00	26.18	13.78	24.45	50.00	25.55	PASS
5	9.6270	10.64	19.68	30.32	60.00	29.68	10.51	21.15	50.00	28.85	PASS
6	19.8195	10.42	20.12	30.54	60.00	29.46	14.04	24.46	50.00	25.54	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).

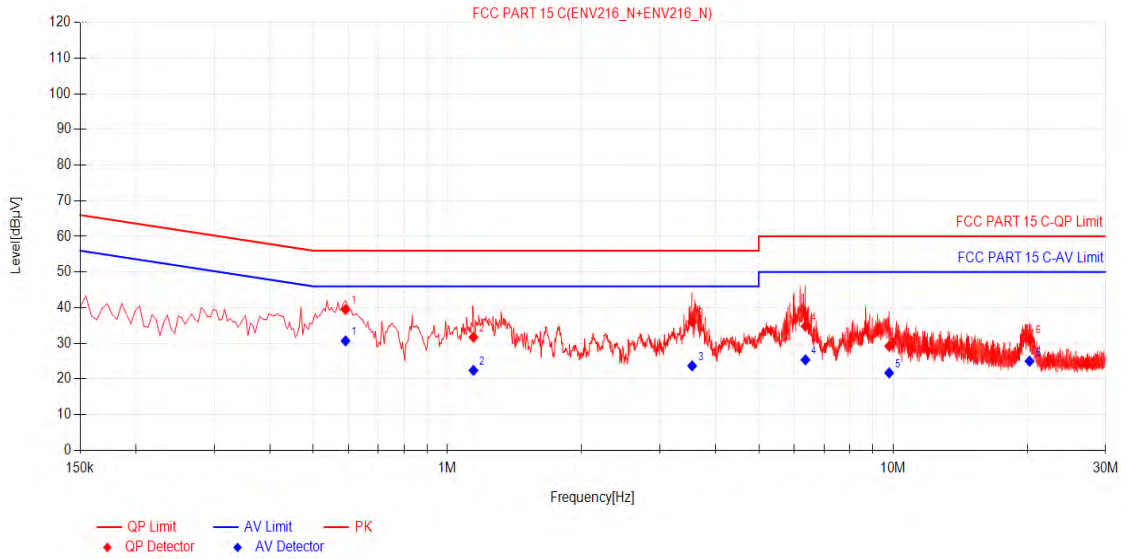


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5910	10.69	28.81	39.50	56.00	16.50	19.99	30.68	46.00	15.32	PASS
2	1.1445	10.74	21.00	31.74	56.00	24.26	11.67	22.41	46.00	23.59	PASS
3	3.5430	10.67	25.36	36.03	56.00	19.97	13.02	23.69	46.00	22.31	PASS
4	6.3600	10.55	24.27	34.82	60.00	25.18	14.83	25.38	50.00	24.62	PASS
5	9.8025	10.67	18.52	29.19	60.00	30.81	11.05	21.72	50.00	28.28	PASS
6	20.2470	10.40	20.80	31.20	60.00	28.80	14.59	24.99	50.00	25.01	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (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 11.9.2.3
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:	Refer to section 3.7 for details.
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 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
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:	Refer to section 3.7 for details.
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 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
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	Peak	
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:

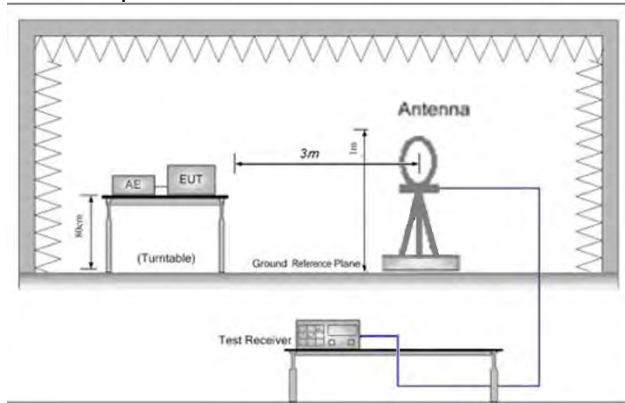


Figure 1. Below 30MHz

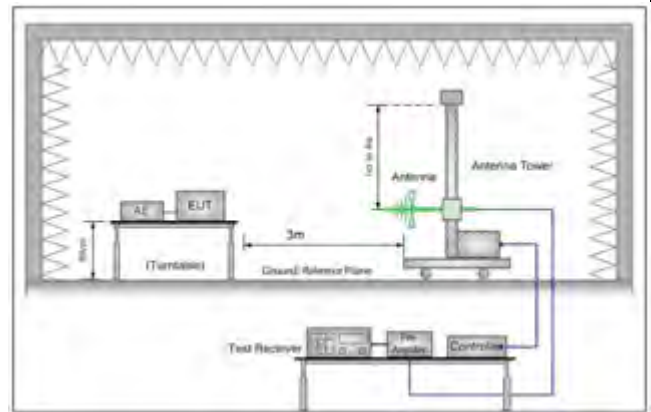


Figure 2. 30MHz to 1GHz

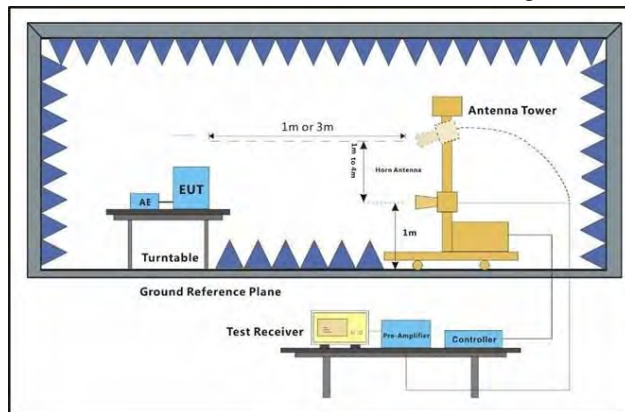


Figure 3. Above 1 GHz

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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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



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	<p>Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. 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>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. 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>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.</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 \geq 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 \geq [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \leq (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>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (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:

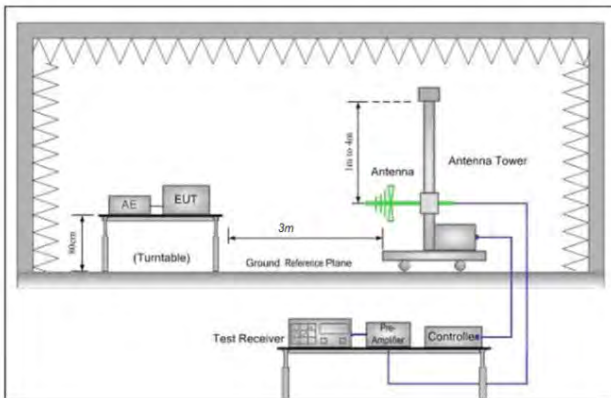


Figure 1. 30MHz to 1GHz

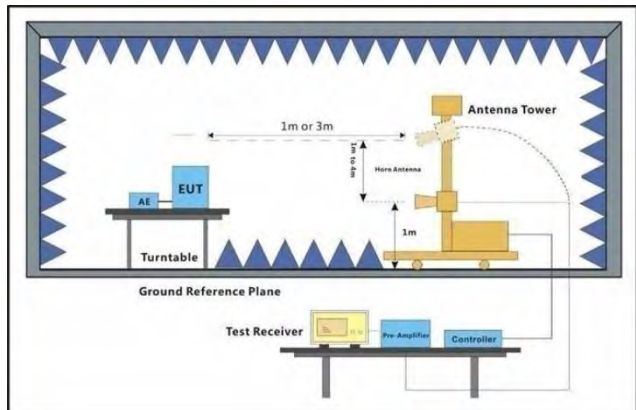


Figure 2. Above 1 GHz



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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>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
<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:	Refer to section 3.7 for details.
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	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
				2022/5/17	2023/5/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
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

CE Test System					
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	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15



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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	2022/2/16	2023/2/15
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
				2022/5/28	2023/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR

*Note: This equipment was not used for testing on 2022/5/27.



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7 Photographs - Setup Photos

Refer to Appendix A.2 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	Ant0	2412	8.08	2407.92	2416.00	≥0.5	PASS
		2437	8.08	2432.92	2441.00	≥0.5	PASS
		2462	8.08	2457.92	2466.00	≥0.5	PASS
11G	Ant0	2412	15.48	2404.40	2419.88	≥0.5	PASS
		2437	15.52	2429.20	2444.72	≥0.5	PASS
		2462	15.32	2454.40	2469.72	≥0.5	PASS
11N20SISO	Ant0	2412	15.72	2404.40	2420.12	≥0.5	PASS
		2437	16.00	2428.56	2444.56	≥0.5	PASS
		2462	15.16	2454.40	2469.56	≥0.5	PASS
11N40SISO	Ant0	2422	35.12	2404.48	2439.60	≥0.5	PASS
		2437	35.20	2419.40	2454.60	≥0.5	PASS
		2452	35.20	2434.40	2469.60	≥0.5	PASS



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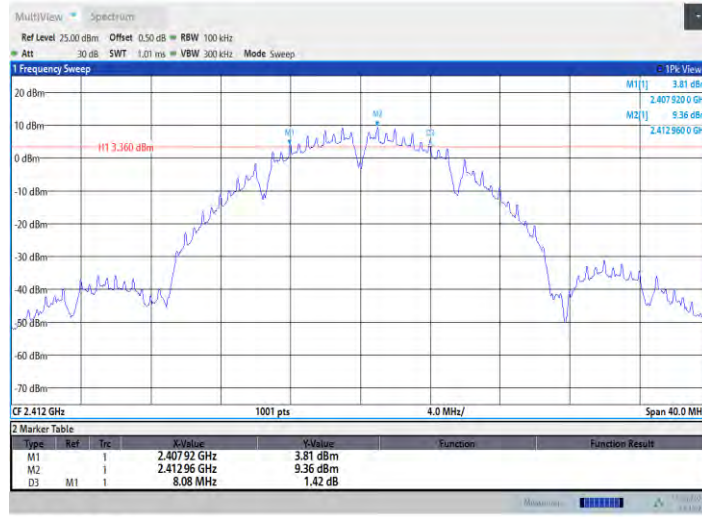
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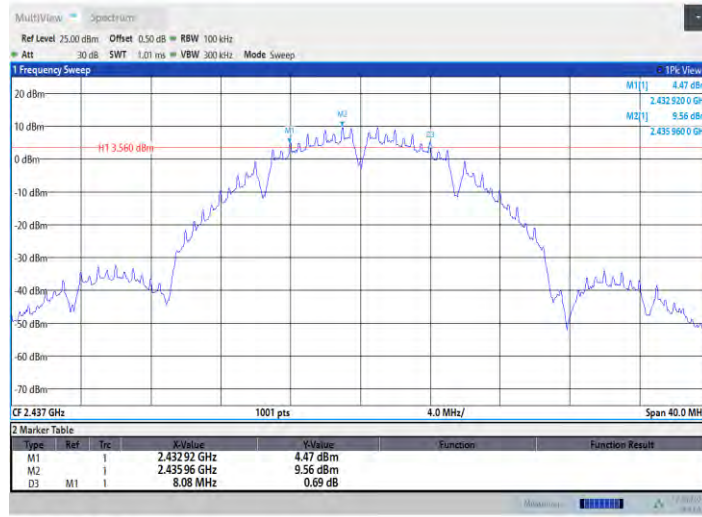
Test Graphs

11B Ant0 2412



22:15:23 11.05.2022

11B Ant0 2437



19:53:53 12.05.2022



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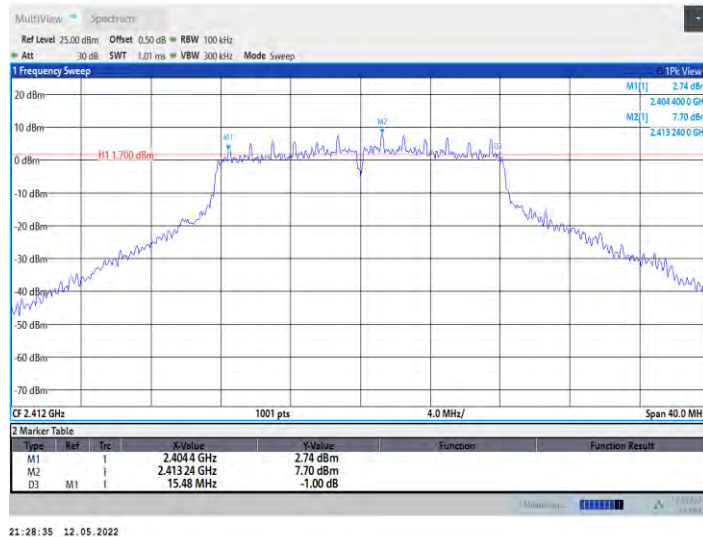
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11B Ant0 2462



11G Ant0 2412

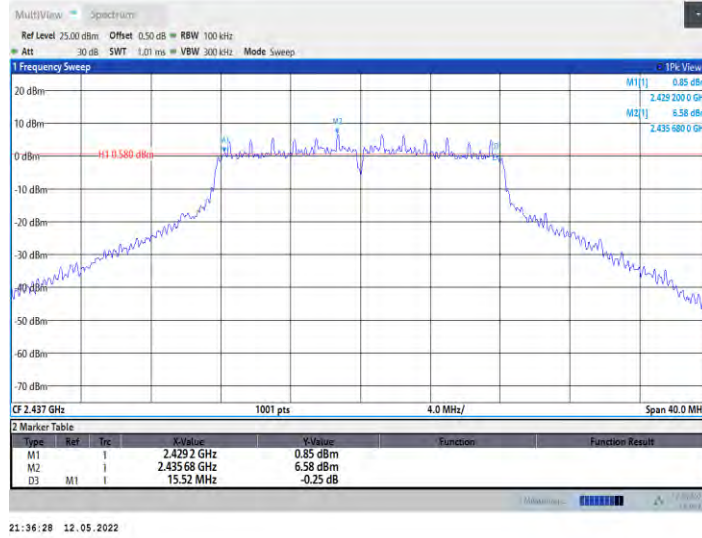


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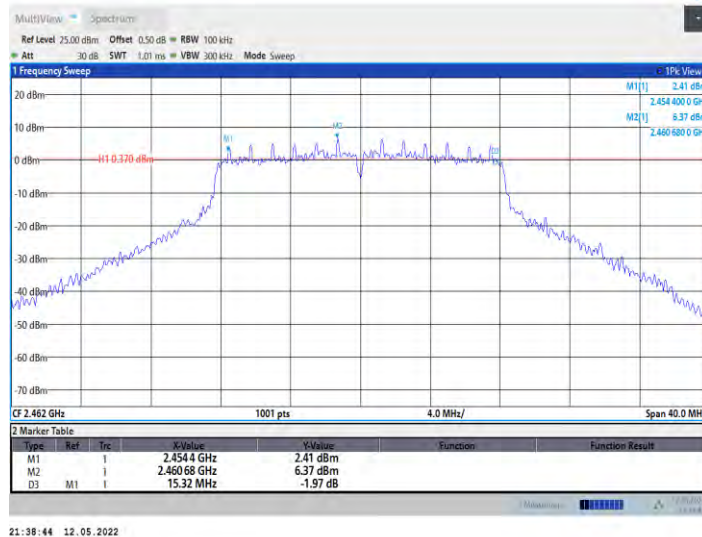
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11G Ant0 2437



11G Ant0 2462

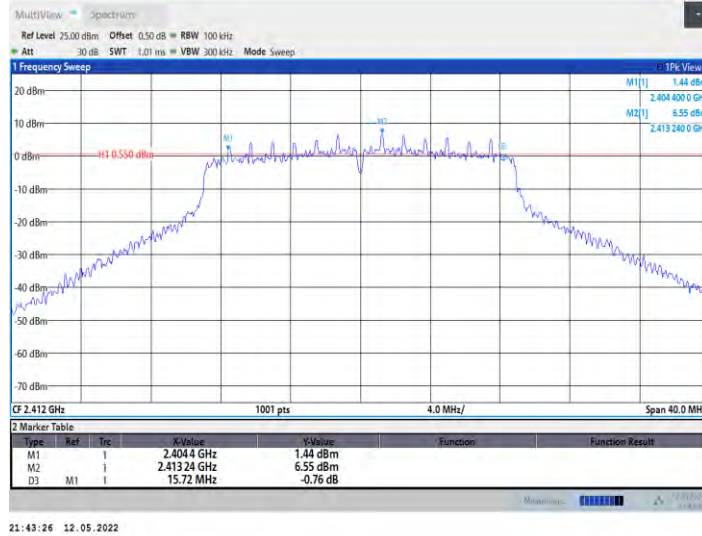


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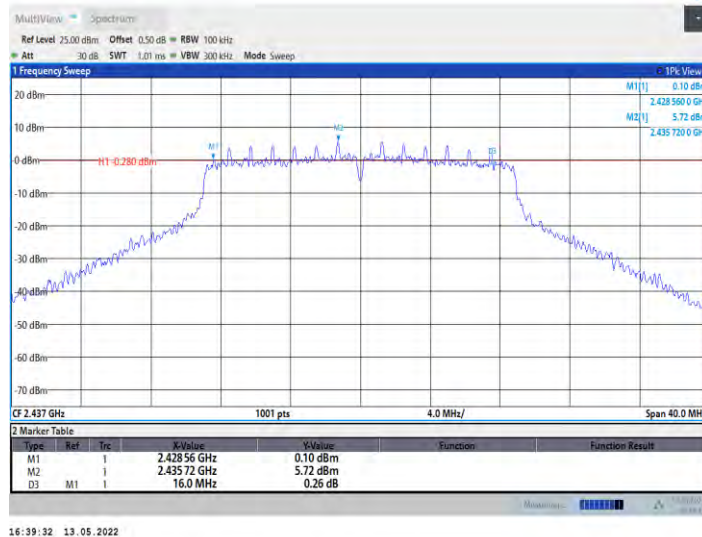
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11N20SISO_Ant0_2412



11N20SISO_Ant0_2437



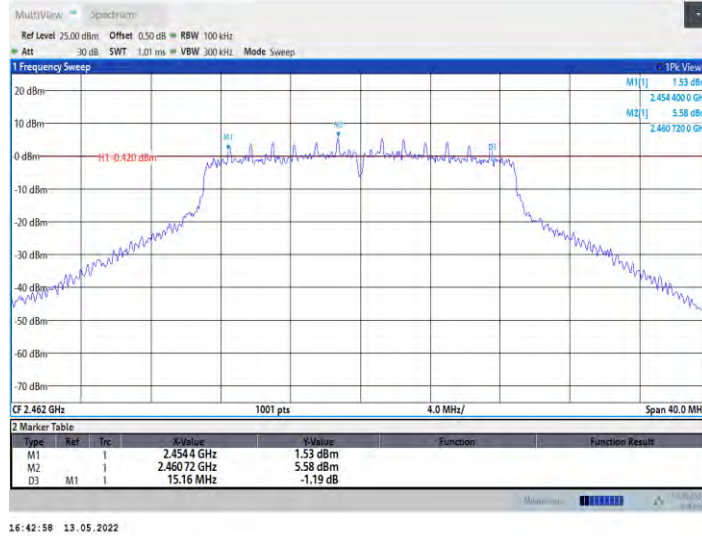
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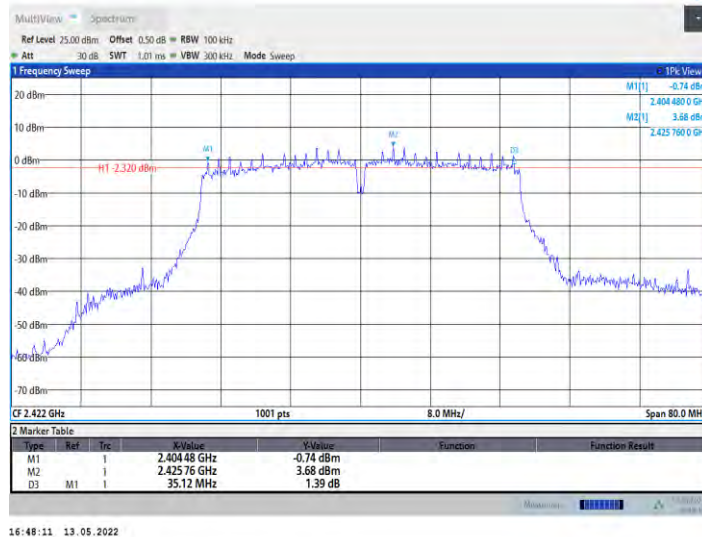
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11N20SISO_Ant0_2462



11N40SISO_Ant0_2422



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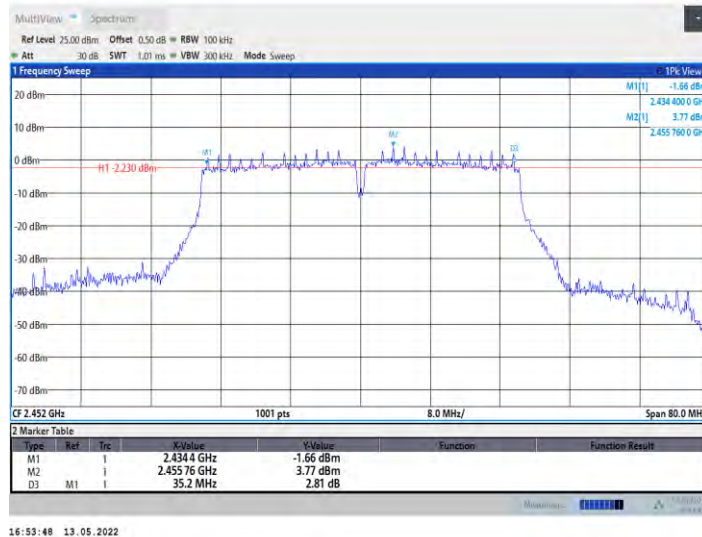
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11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



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Report No.: SEWA2205000012RG04

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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	13.802	2405.262	2419.064	---	---
		2437	13.882	2430.058	2443.941	---	---
		2462	13.81	2455.155	2468.965	---	---
11G	Ant0	2412	17.016	2403.630	2420.646	---	---
		2437	17.075	2428.411	2445.486	---	---
		2462	17.014	2453.496	2470.510	---	---
11N20SISO	Ant0	2412	18.171	2403.054	2421.224	---	---
		2437	18.211	2427.903	2446.114	---	---
		2462	18.164	2452.960	2471.124	---	---
11N40SISO	Ant0	2422	36.322	2403.958	2440.281	---	---
		2437	36.532	2418.807	2455.339	---	---
		2452	36.547	2433.780	2470.327	---	---



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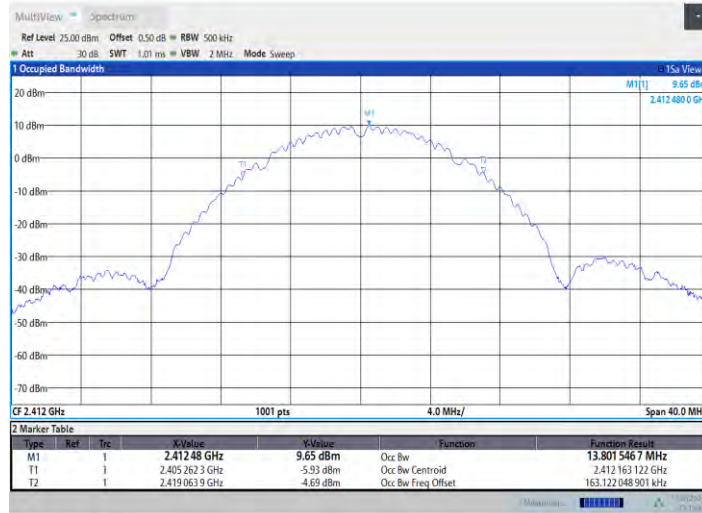
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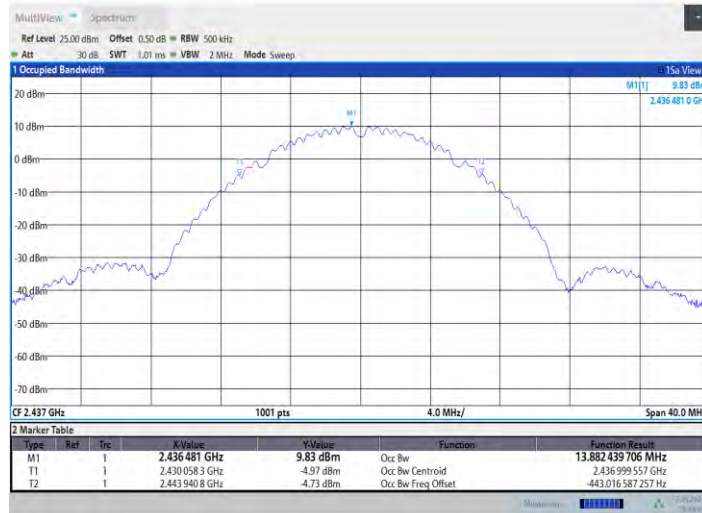
Test Graphs

11B Ant0 2412



22:15:34 11.05.2022

11B Ant0 2437



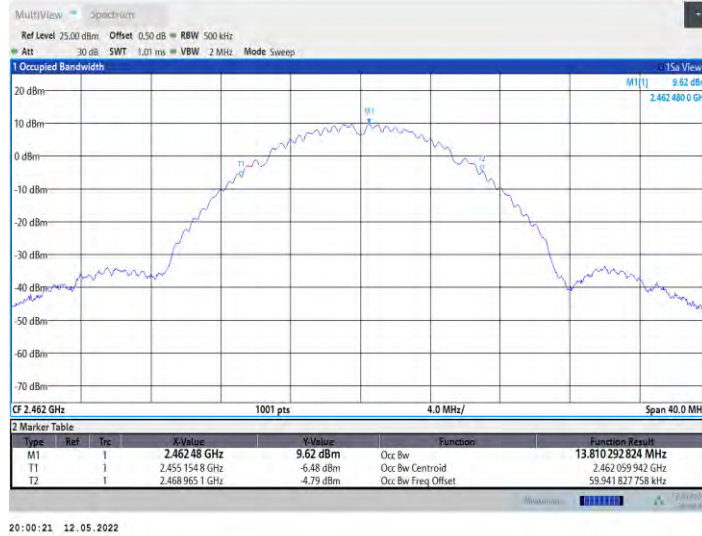
19:54:05 12.05.2022



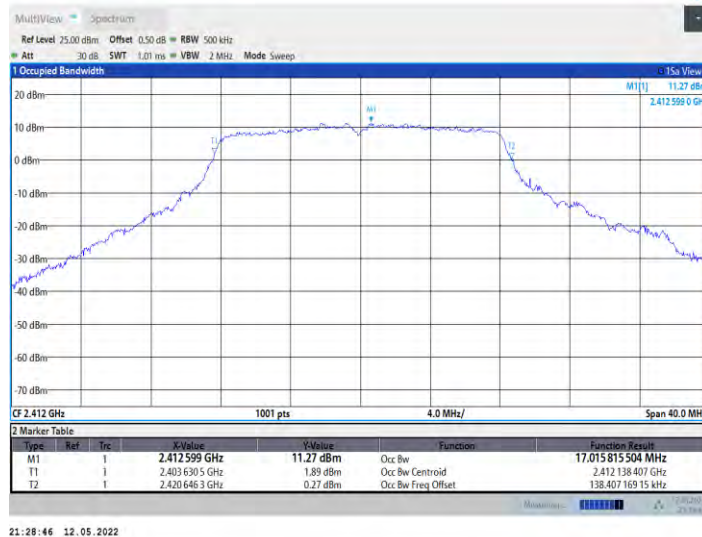
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11B Ant0 2462



11G Ant0 2412



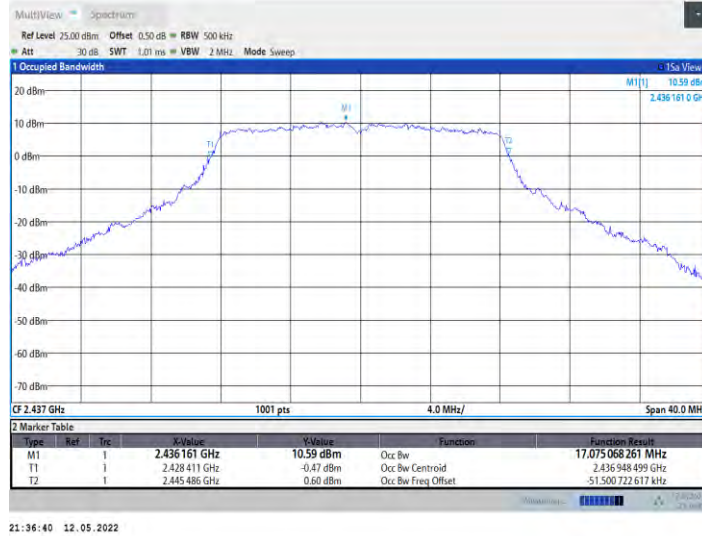
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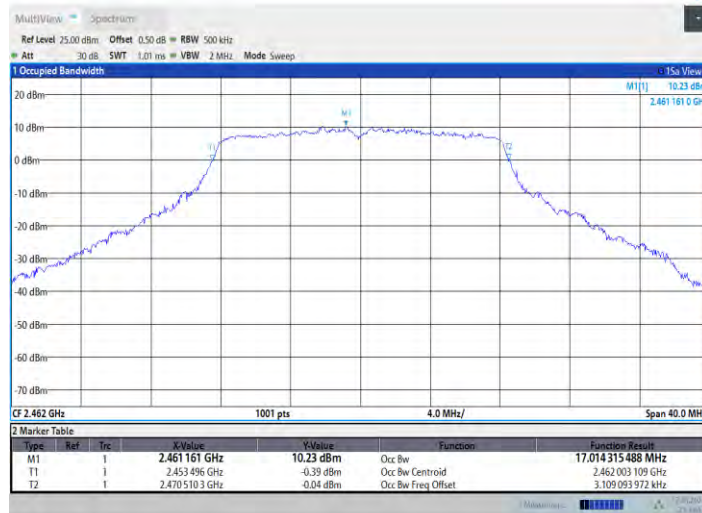
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11G Ant0 2437



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11G Ant0 2462



21:38:55 12.05.2022



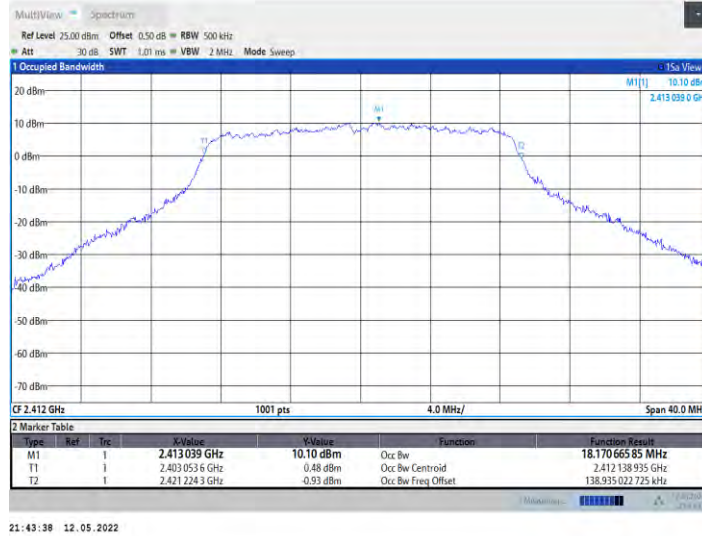
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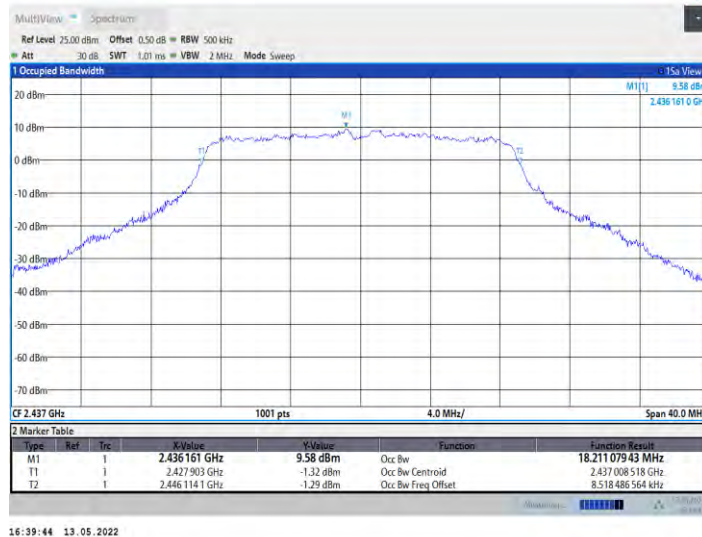
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11N20SISO_Ant0_2412



11N20SISO_Ant0_2437



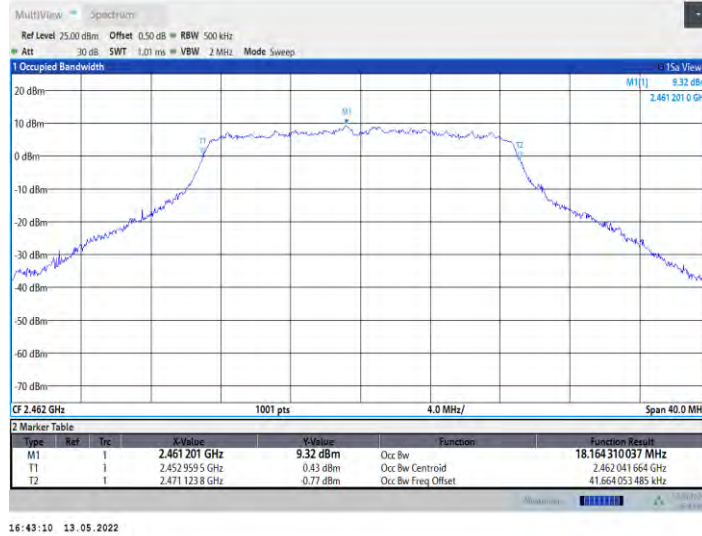
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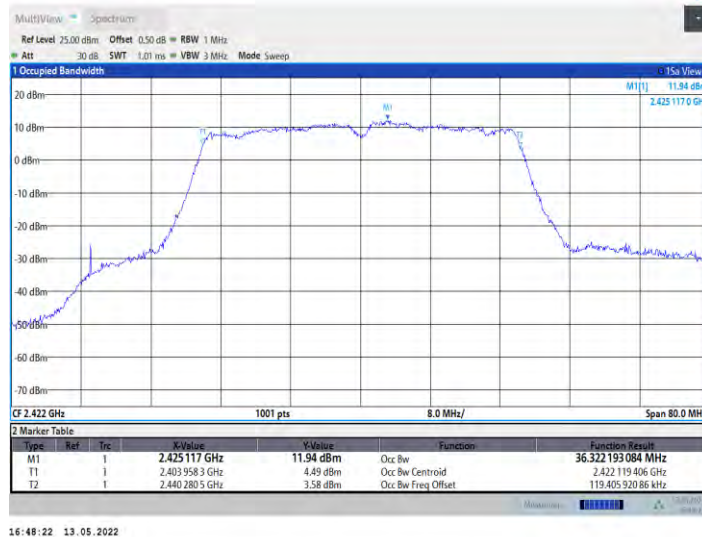
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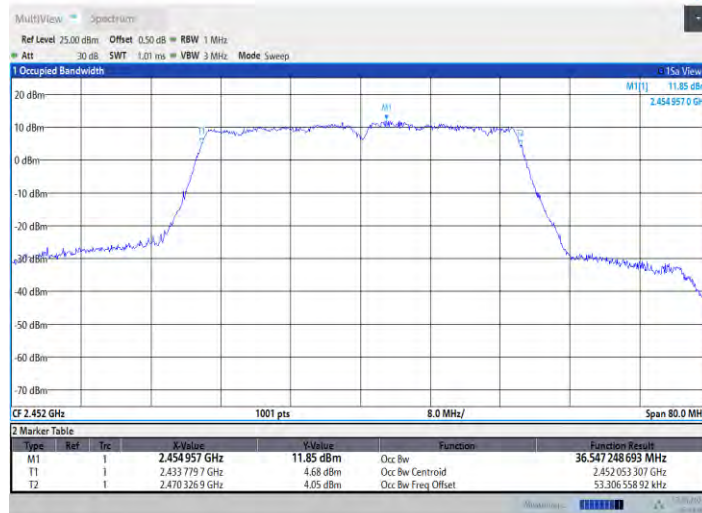
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16:51:31 13.05.2022

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Report No.: SEWA2205000012RG04

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant0	2412	21.13	≤30.00	PASS
		2437	21.23	≤30.00	PASS
		2462	20.9	≤30.00	PASS
11G	Ant0	2412	23.38	≤30.00	PASS
		2437	22.46	≤30.00	PASS
		2462	23.15	≤30.00	PASS
11N20SISO	Ant0	2412	22.17	≤30.00	PASS
		2437	22.34	≤30.00	PASS
		2462	21.95	≤30.00	PASS
11N40SISO	Ant0	2422	22.1	≤30.00	PASS
		2437	22.34	≤30.00	PASS
		2452	22.25	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	-7.83	≤8.00	PASS
		2437	-8.81	≤8.00	PASS
		2462	-7.97	≤8.00	PASS
11G	Ant0	2412	-8.96	≤8.00	PASS
		2437	-9.12	≤8.00	PASS
		2462	-9.87	≤8.00	PASS
11N20SISO	Ant0	2412	-10.15	≤8.00	PASS
		2437	-10.79	≤8.00	PASS
		2462	-10.66	≤8.00	PASS
11N40SISO	Ant0	2422	-12.4	≤8.00	PASS
		2437	-13.29	≤8.00	PASS
		2452	-12.95	≤8.00	PASS



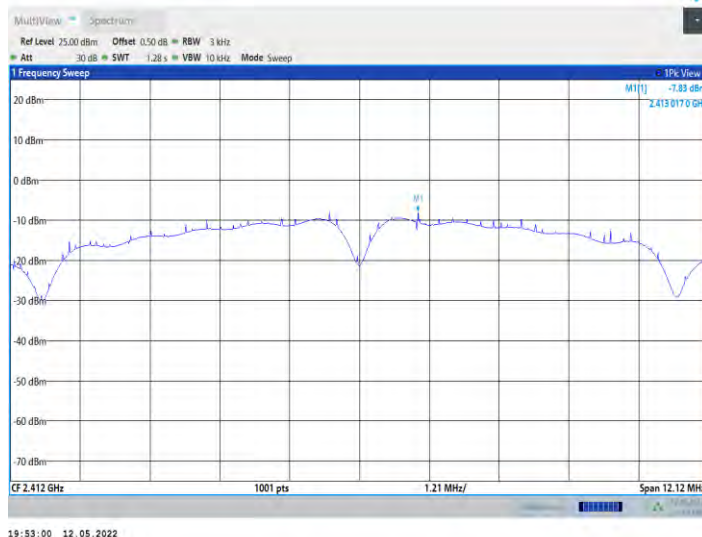
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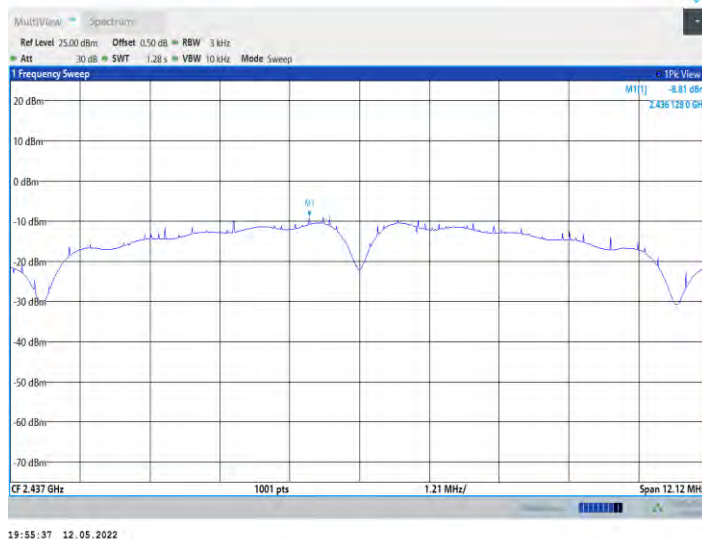
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Test Graphs

11B Ant0 2412

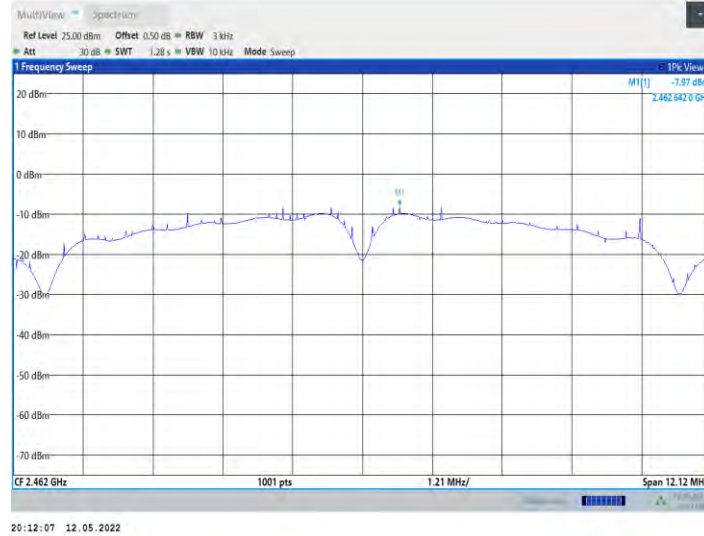


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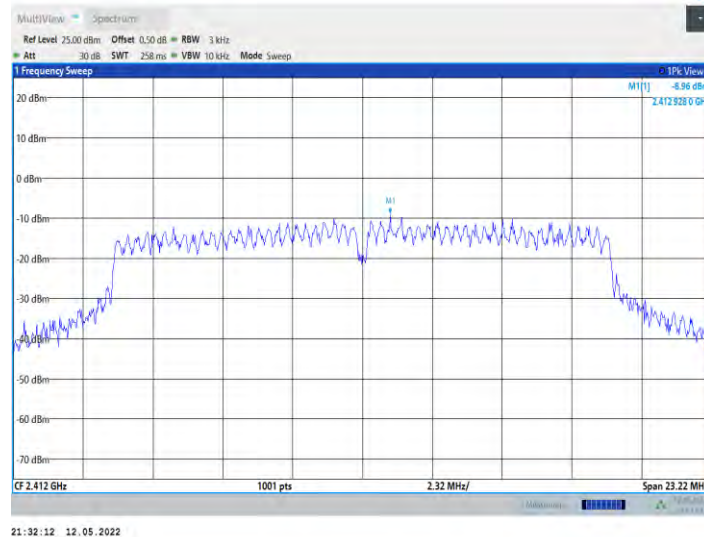


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11B Ant0 2462



11G Ant0 2412

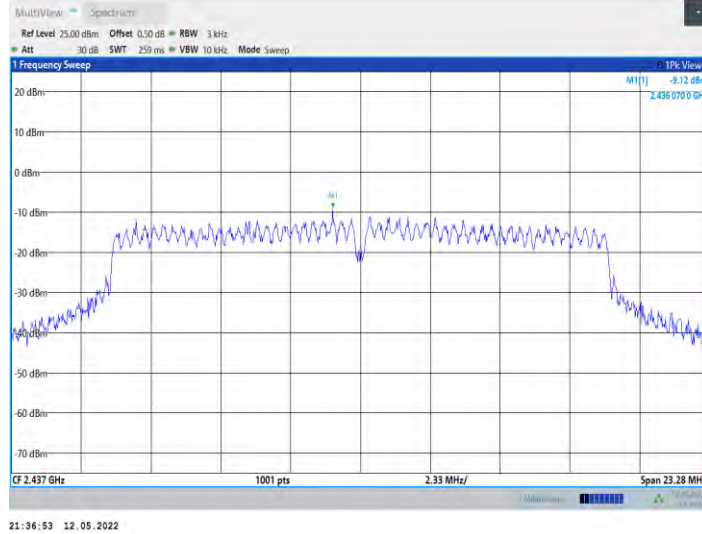


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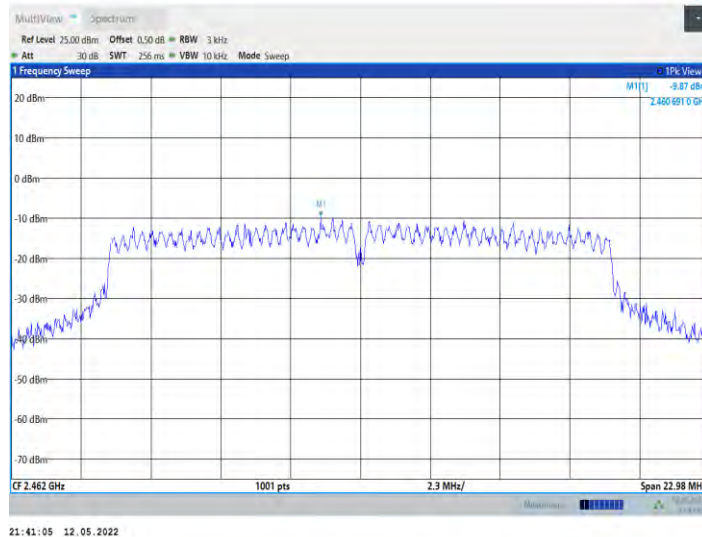
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11G Ant0 2437



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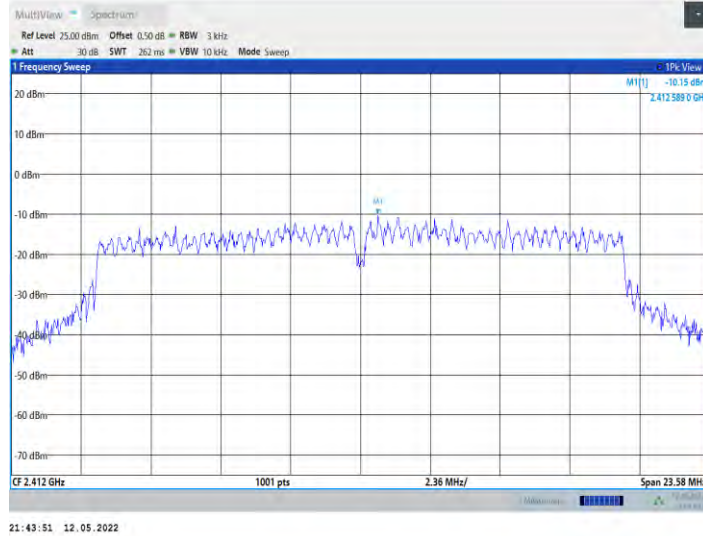


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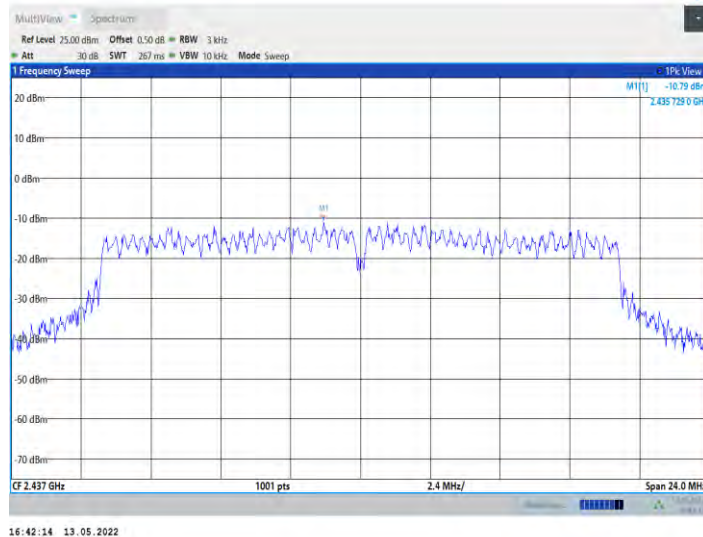
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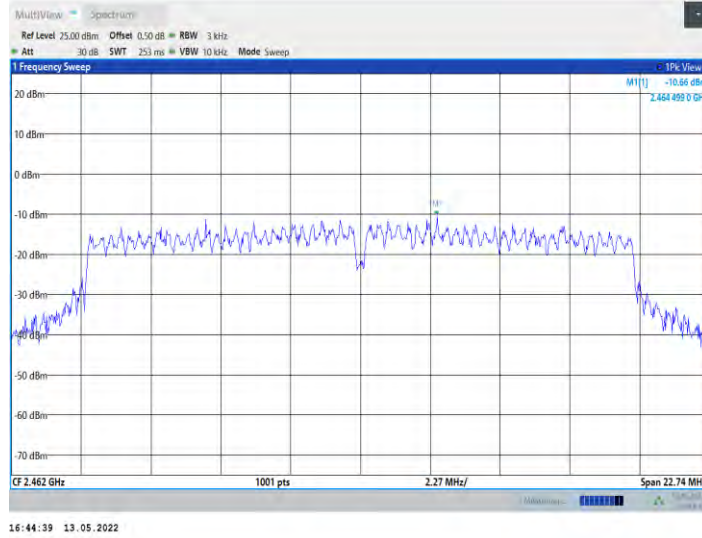


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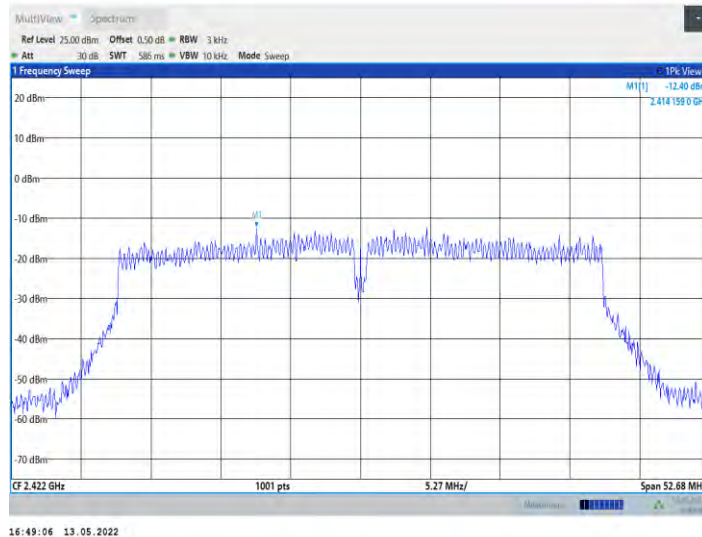
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11N20SISO_Ant0_2462



16:44:39 13.05.2022

11N40SISO_Ant0_2422



16:49:06 13.05.2022



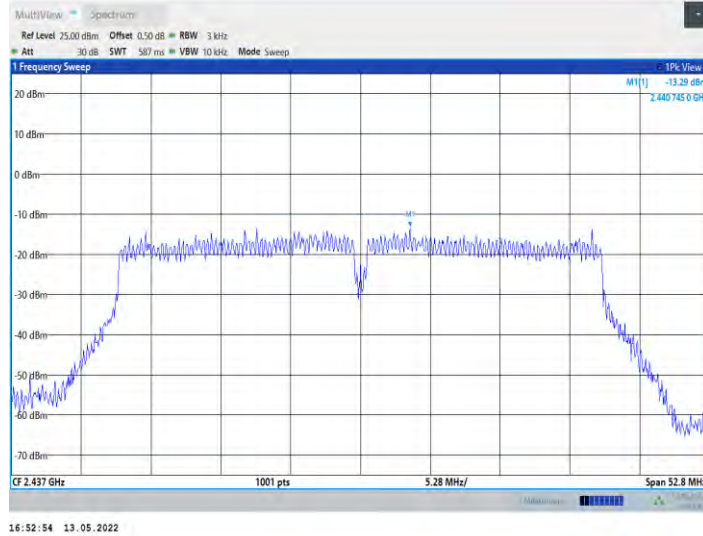
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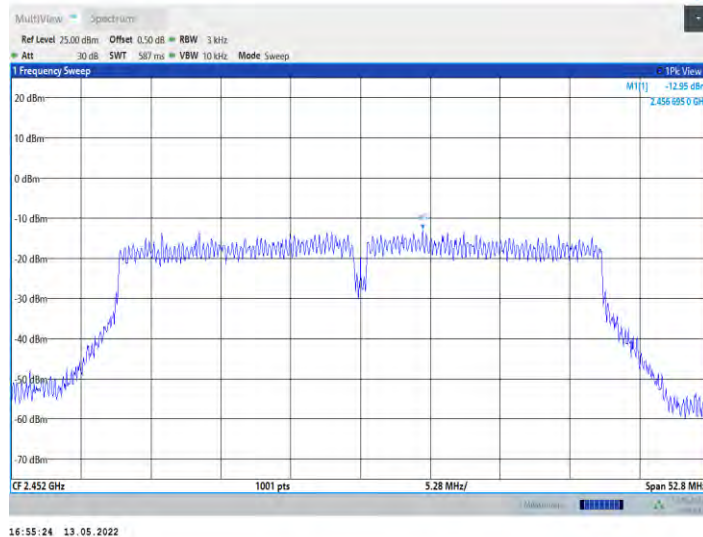
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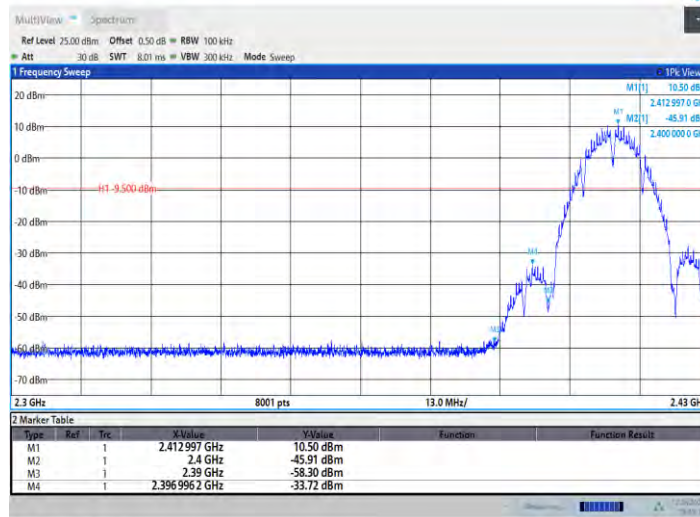
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Band edge measurements

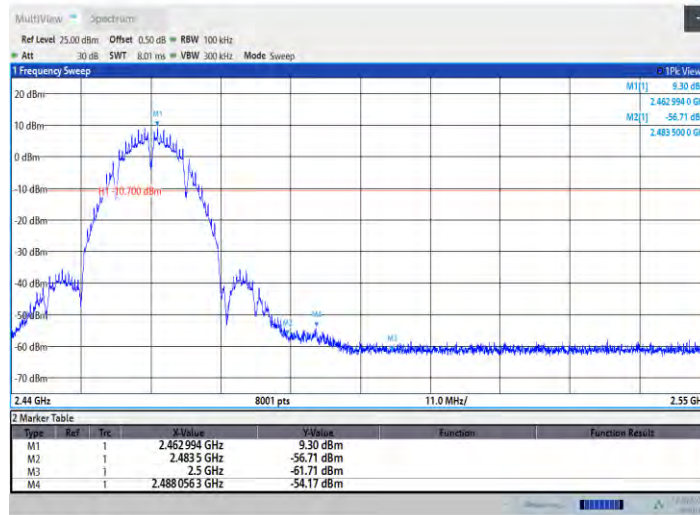
Test Graphs

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11B_Ant0_High_2462



20:01:20 12.05.2022



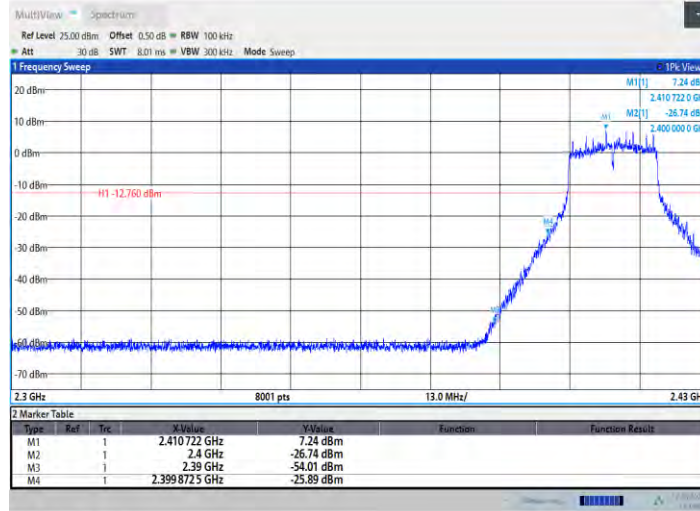
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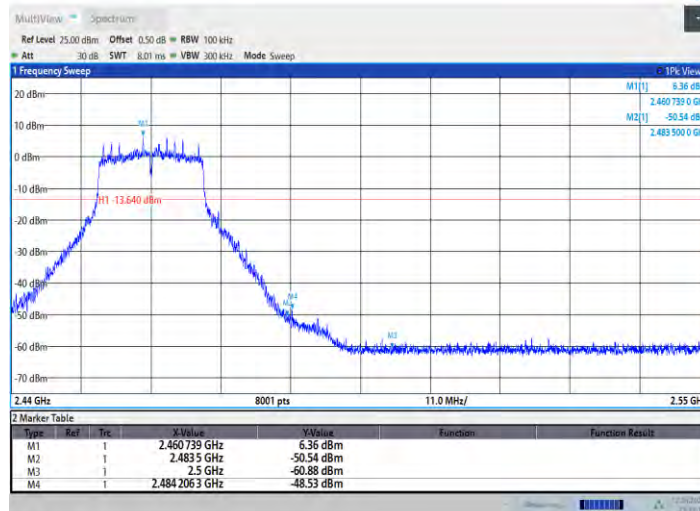
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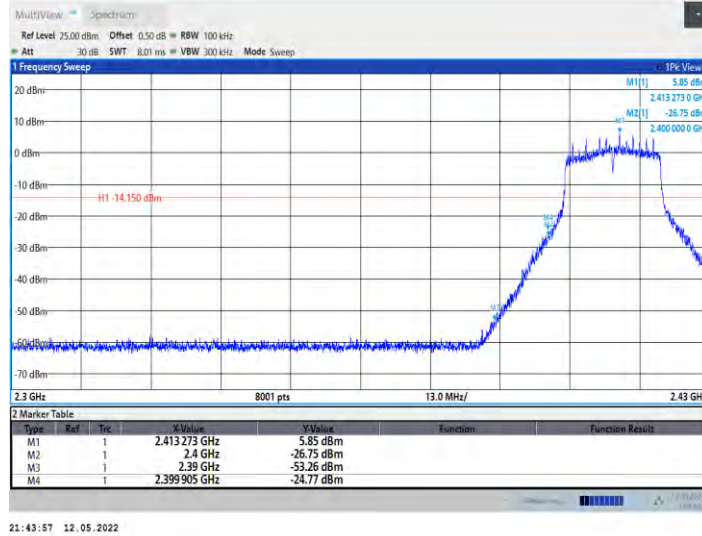
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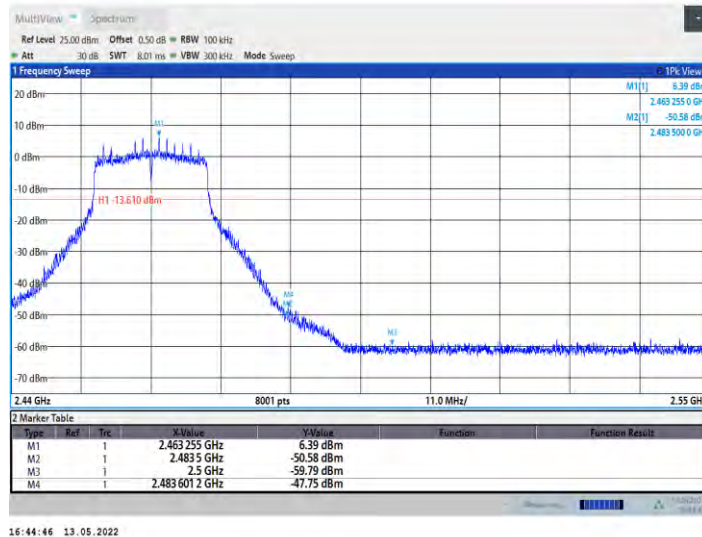
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16:44:46 13.05.2022



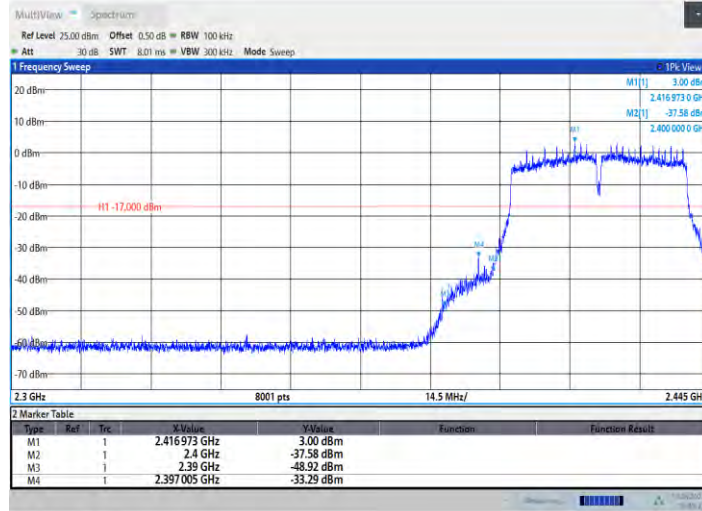
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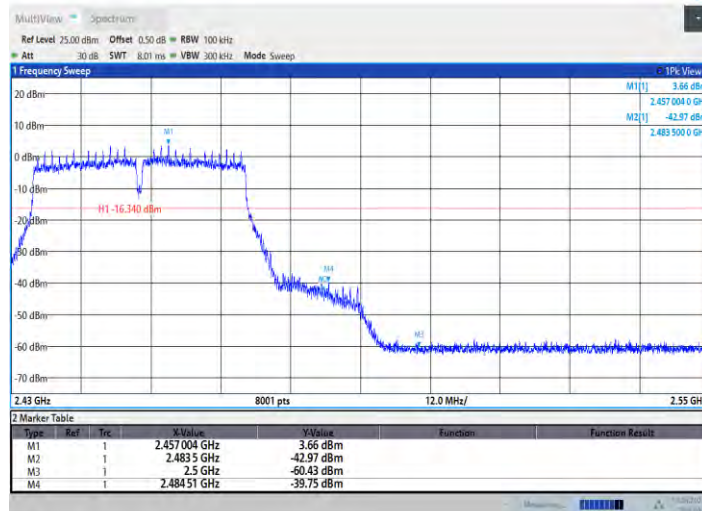
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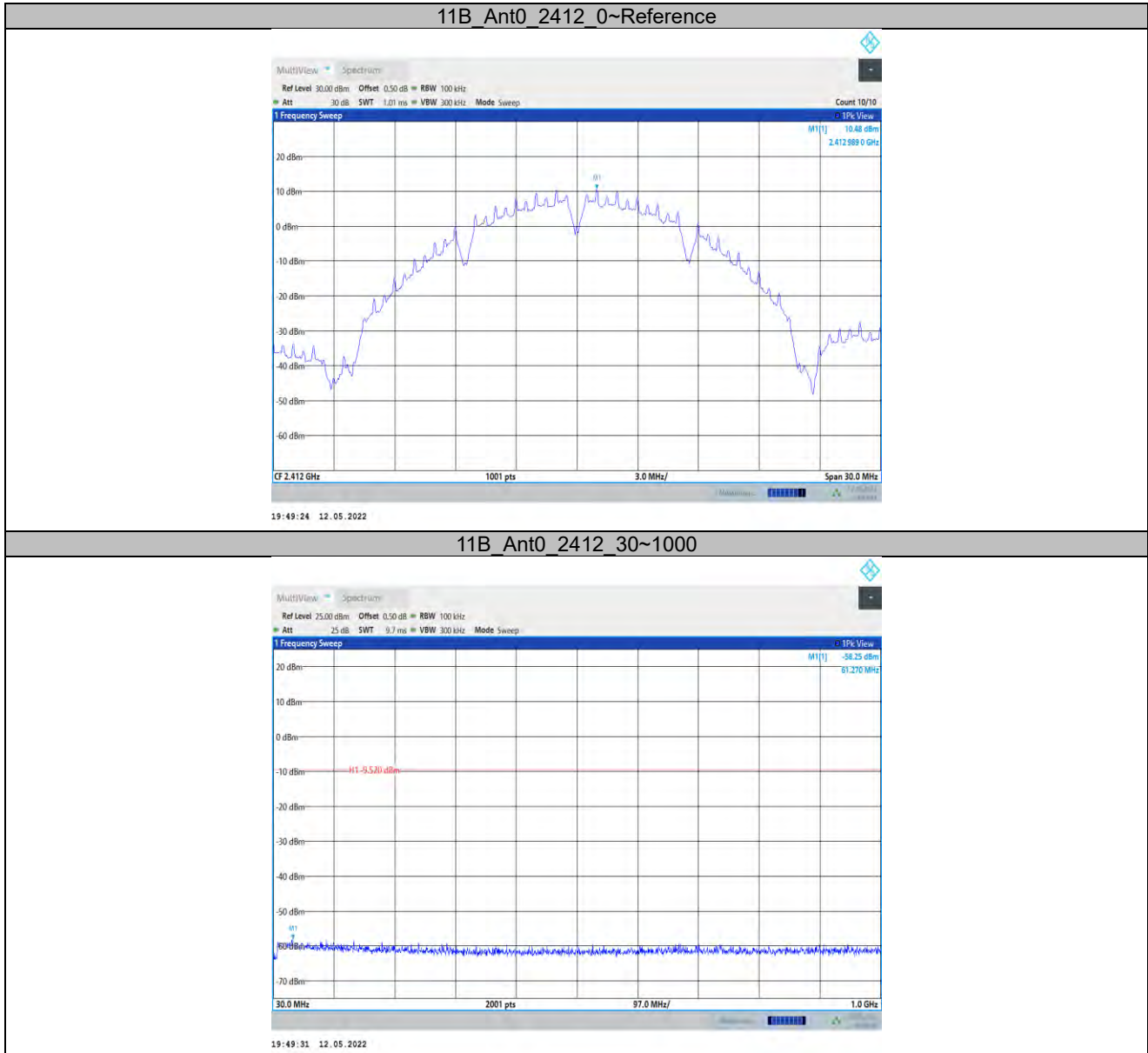
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Conducted Spurious Emission Test Graphs

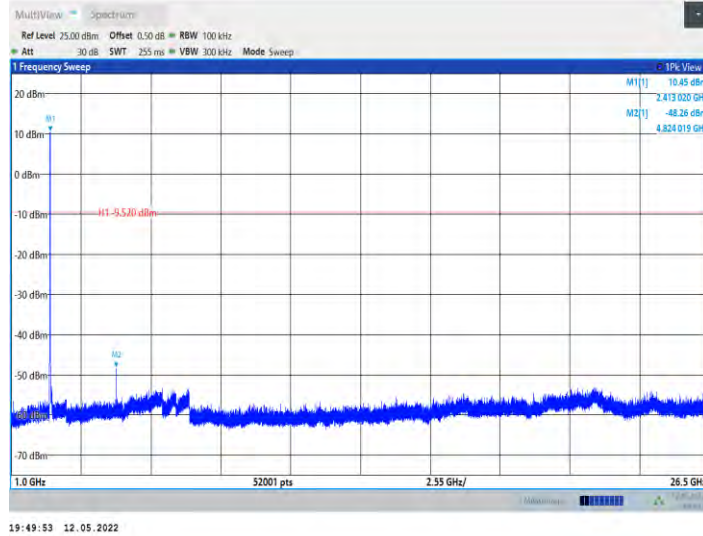


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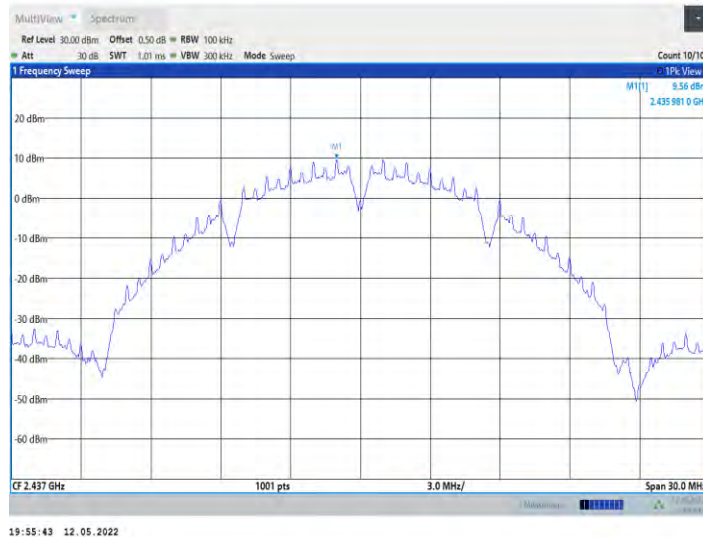
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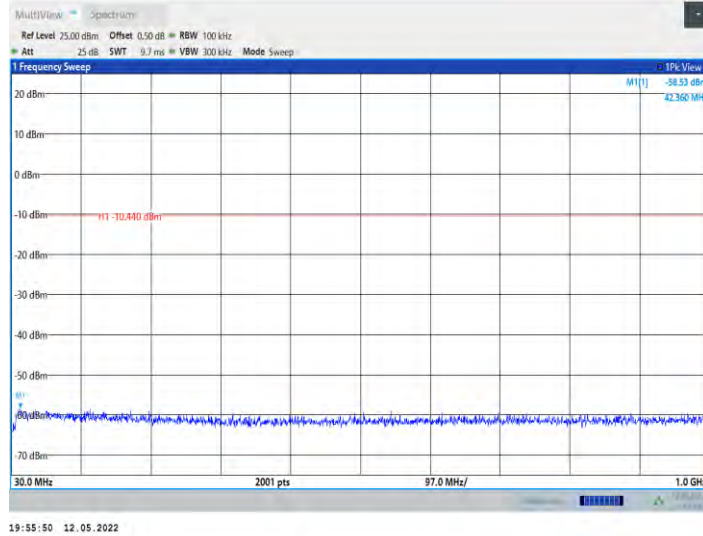


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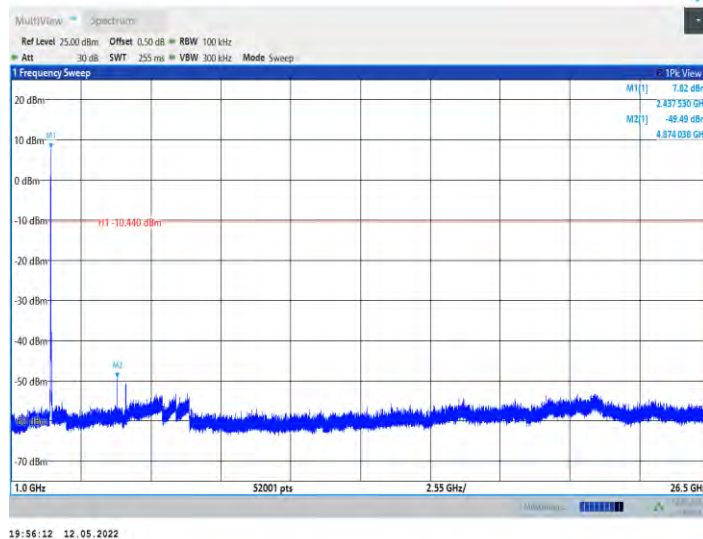
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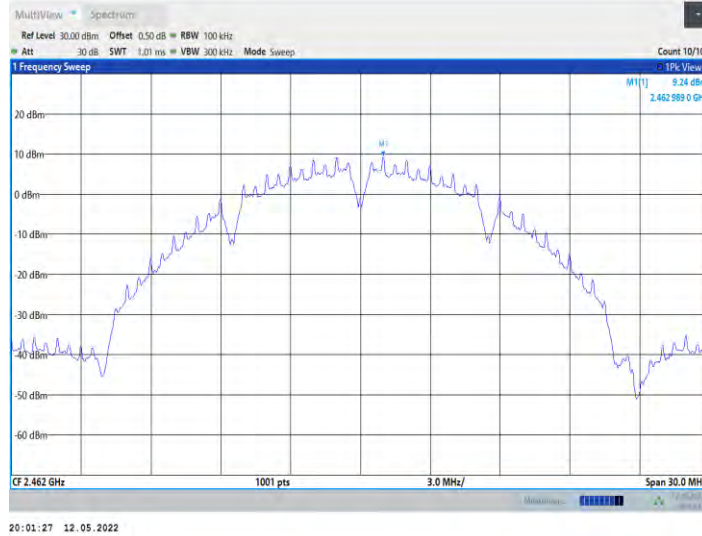


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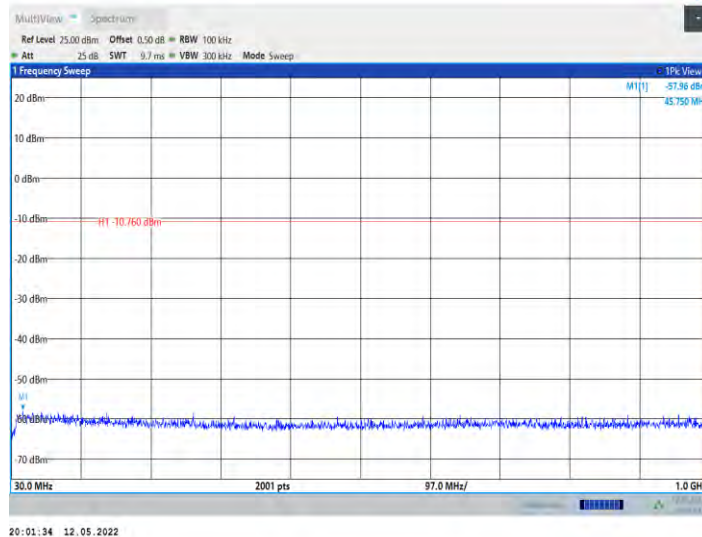
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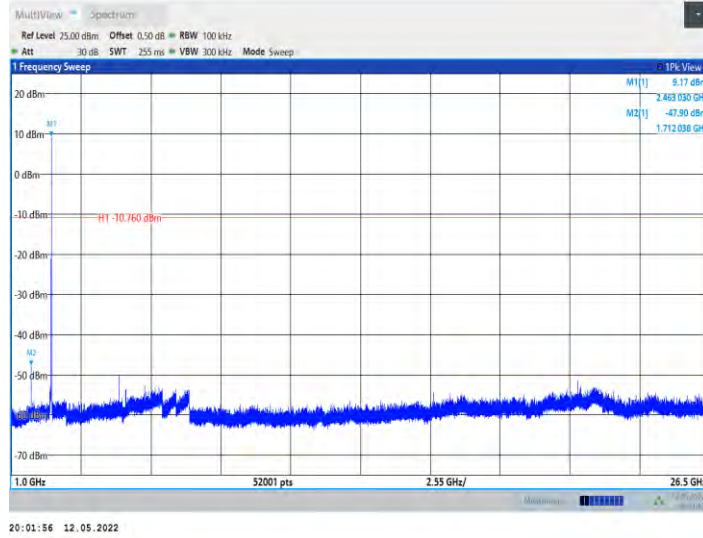


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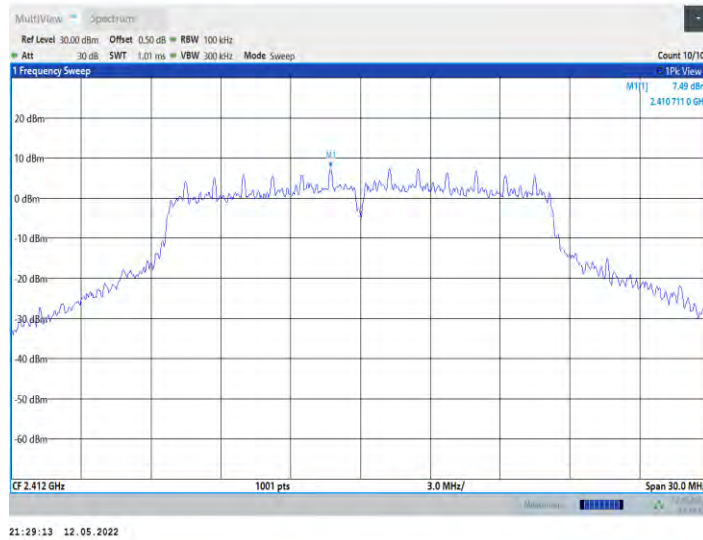
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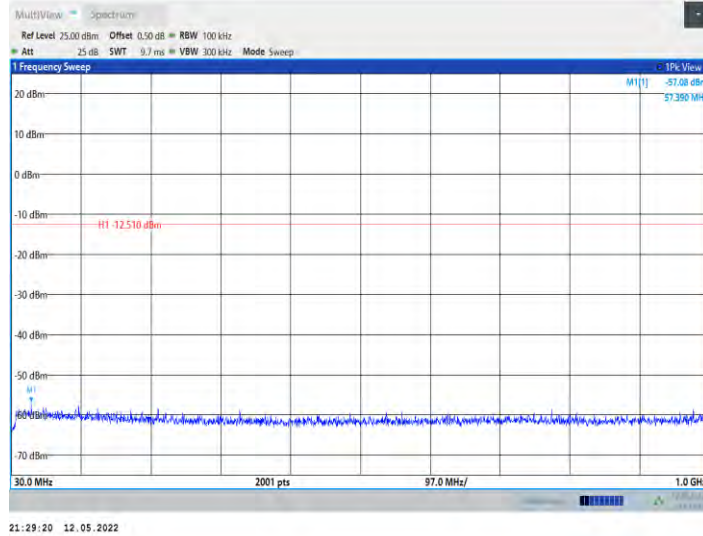


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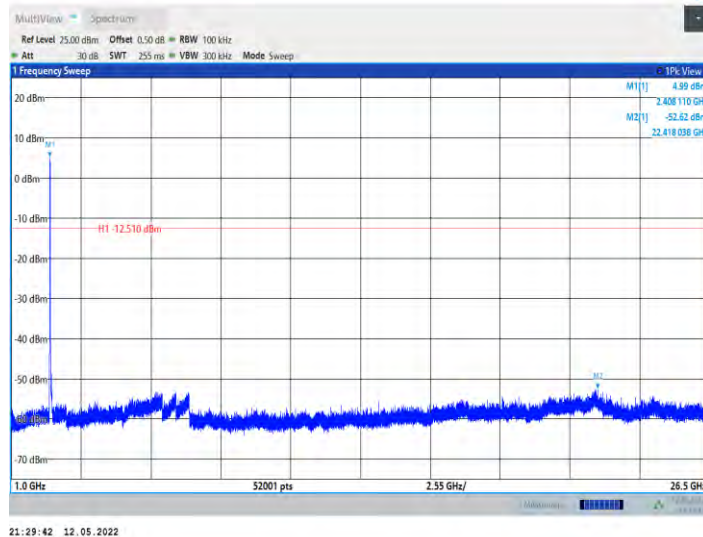
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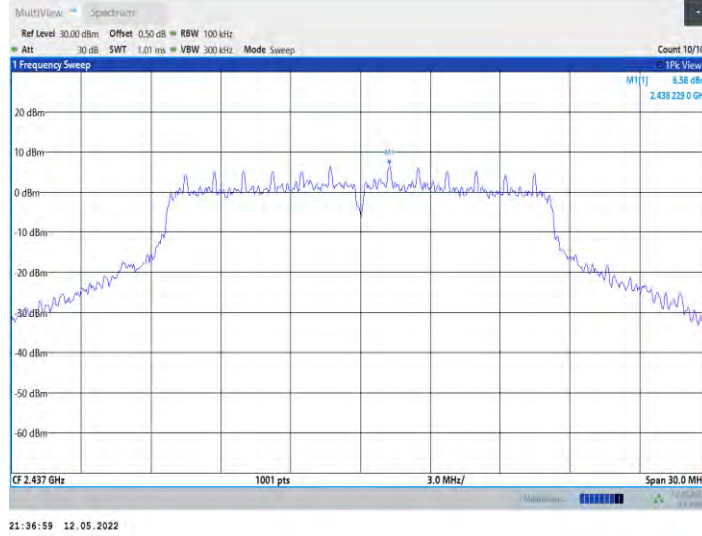
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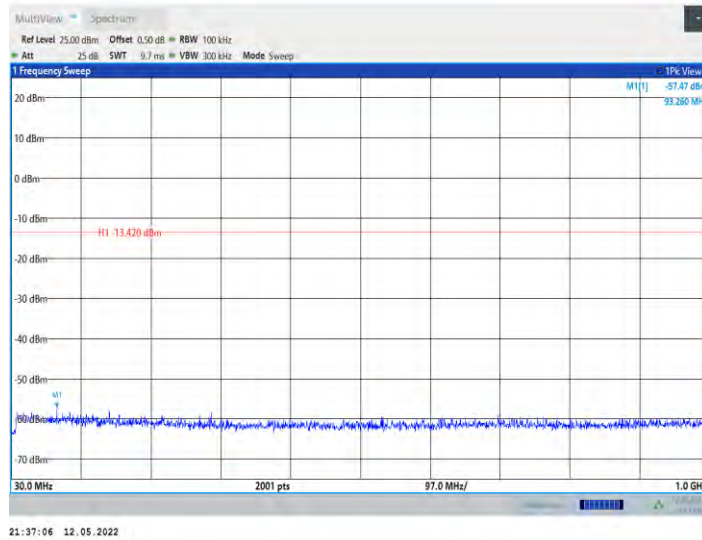
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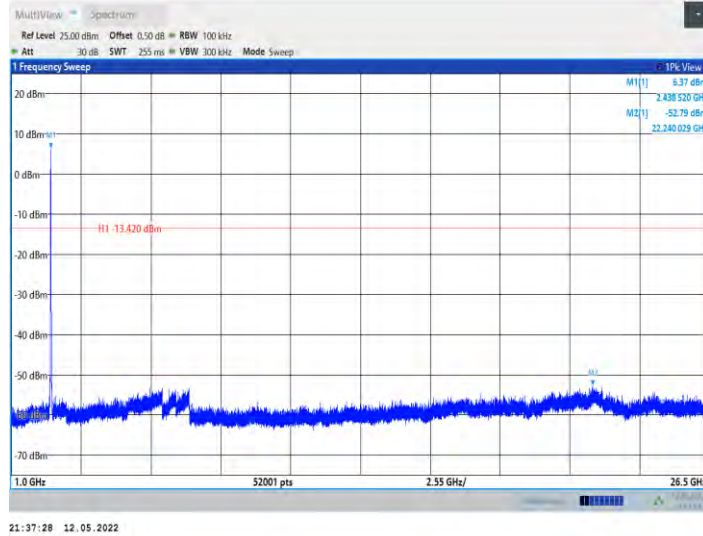


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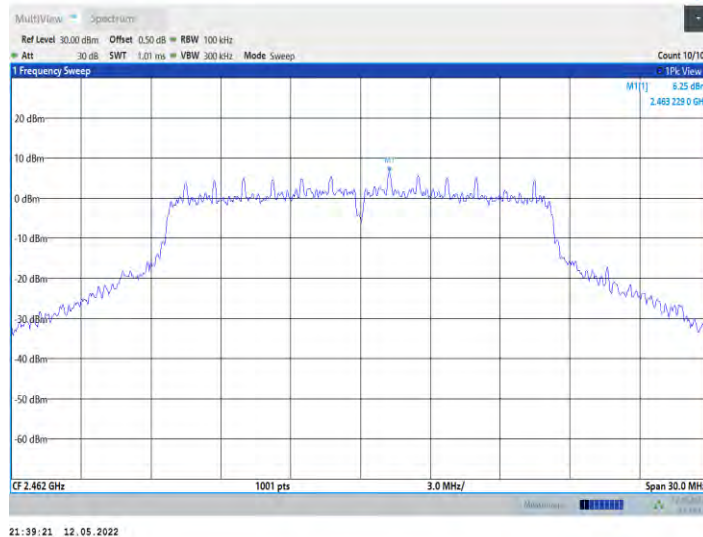


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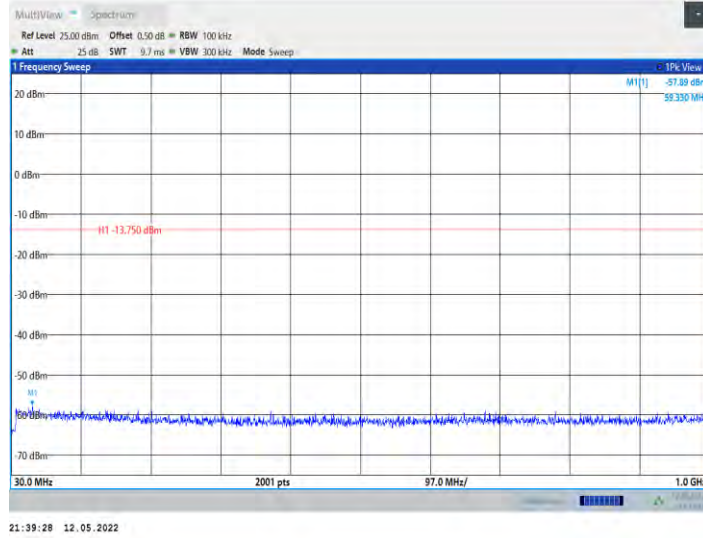


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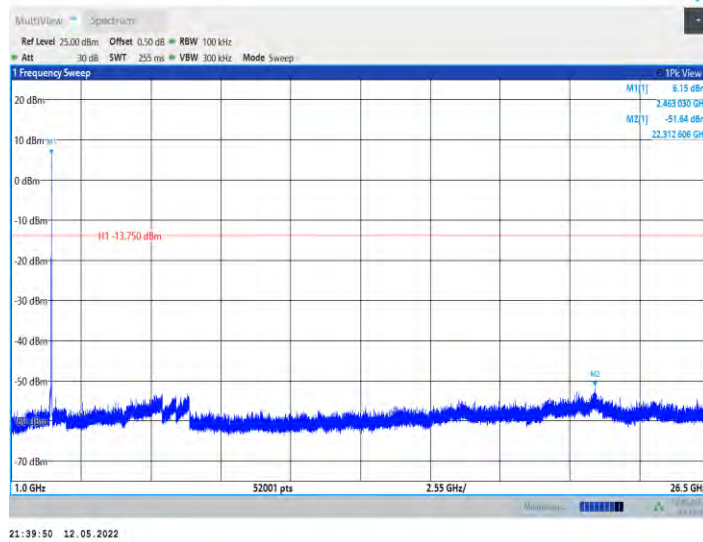
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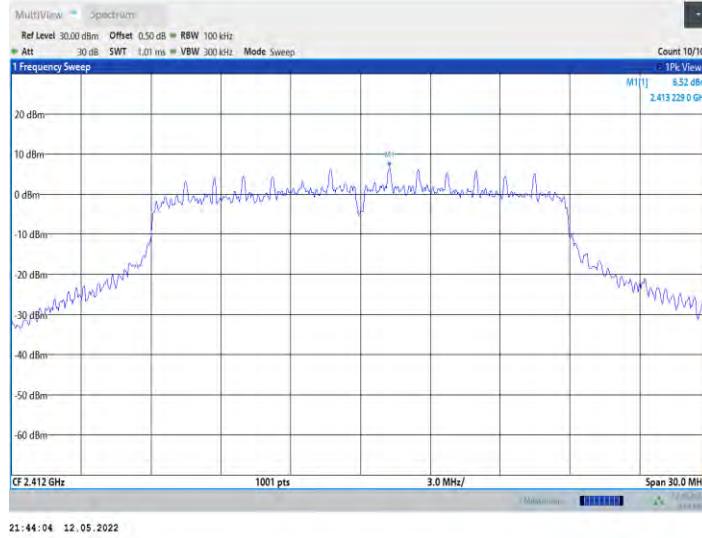
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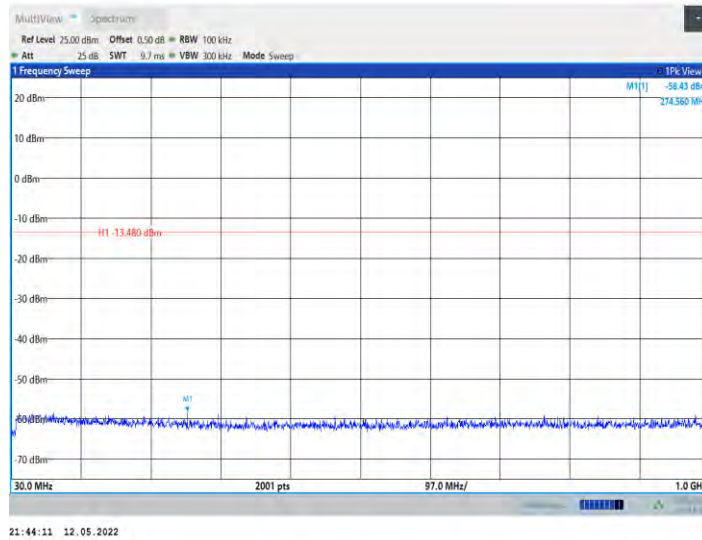
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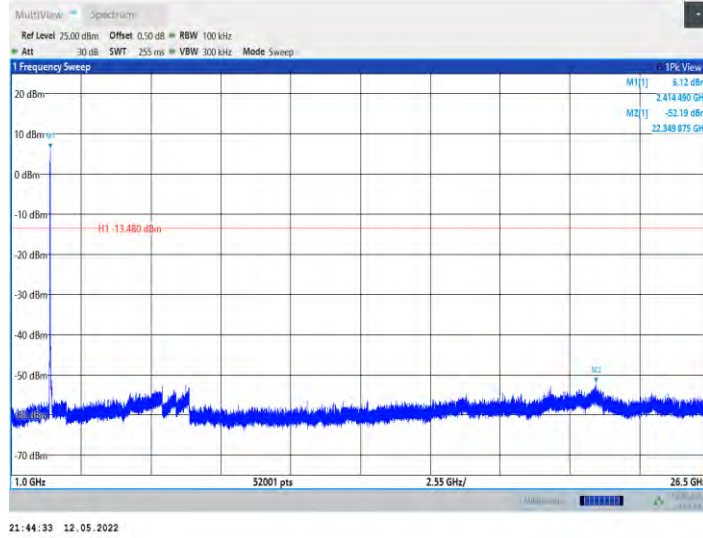


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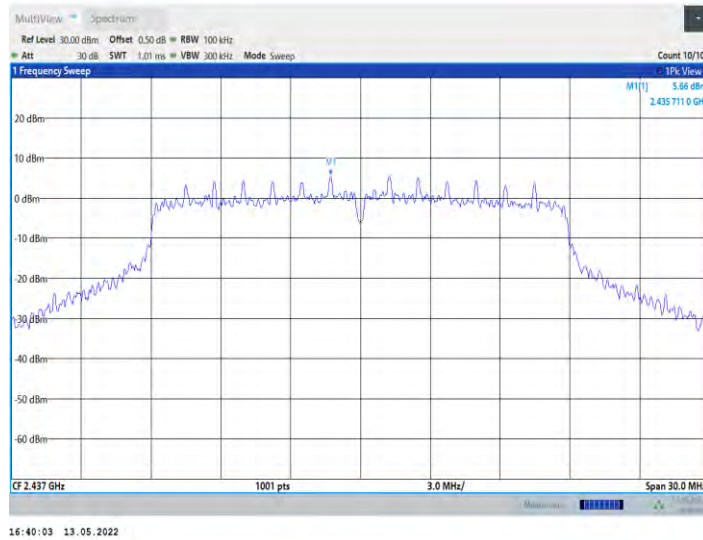
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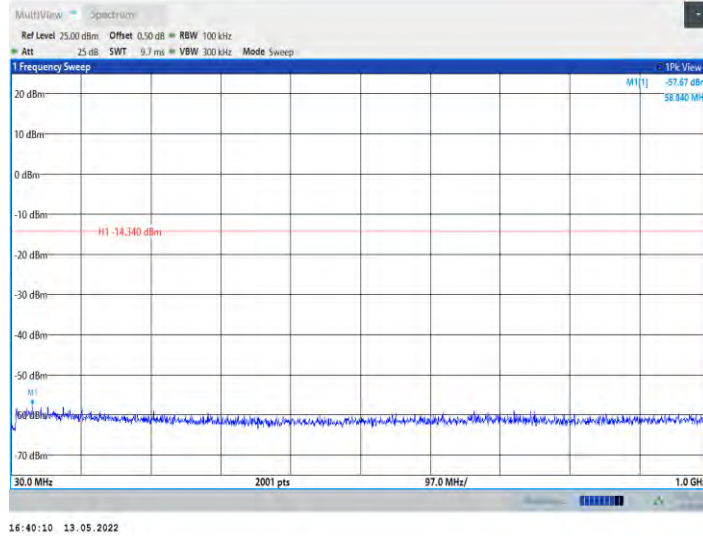


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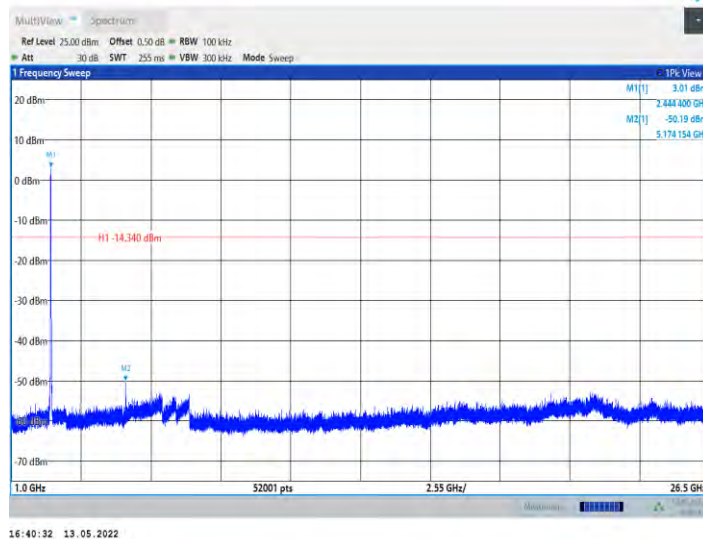
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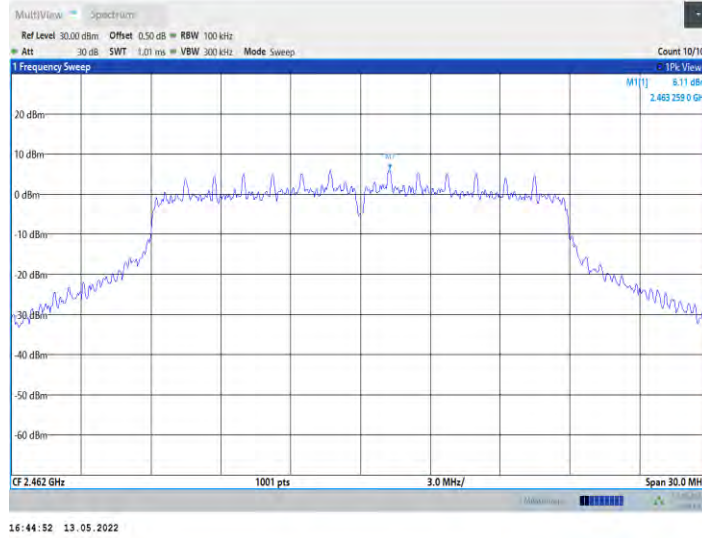
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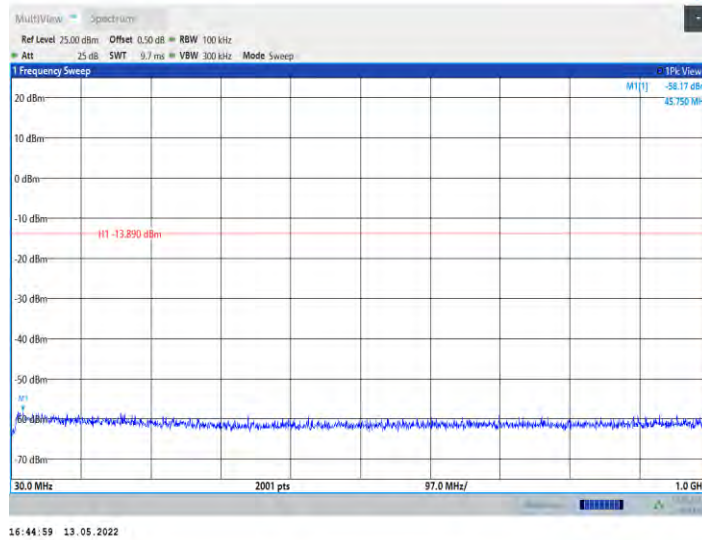
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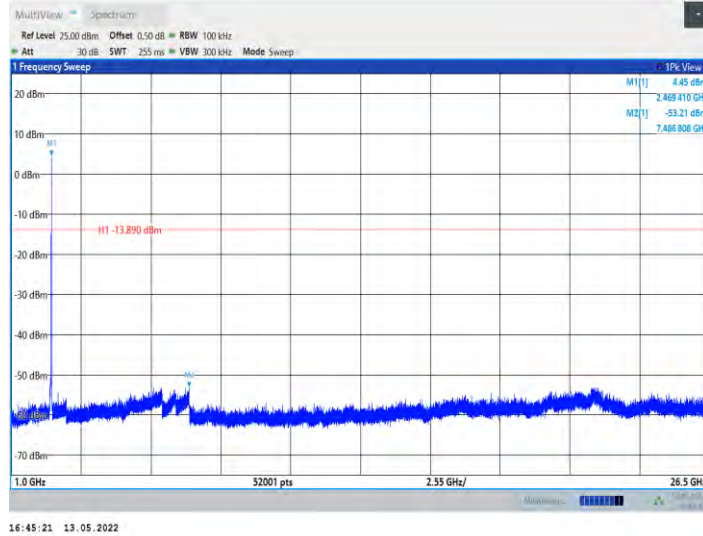


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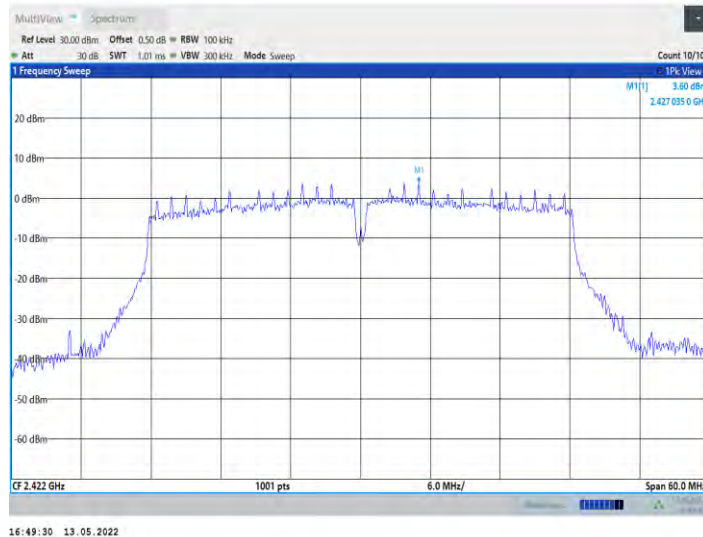


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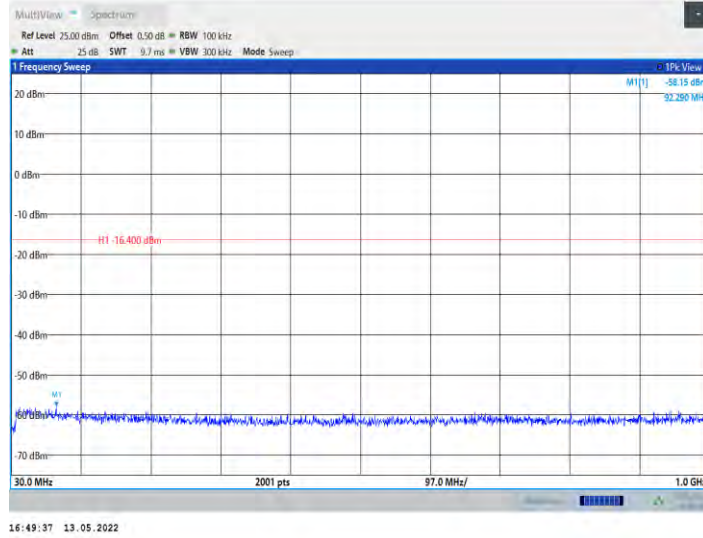


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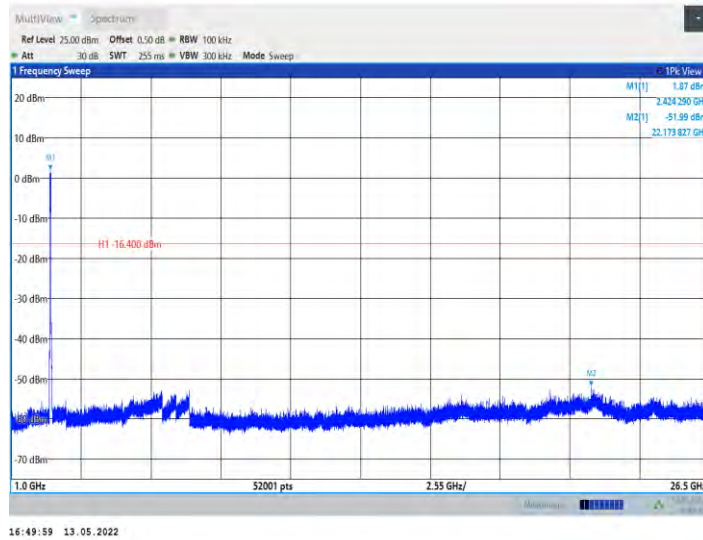
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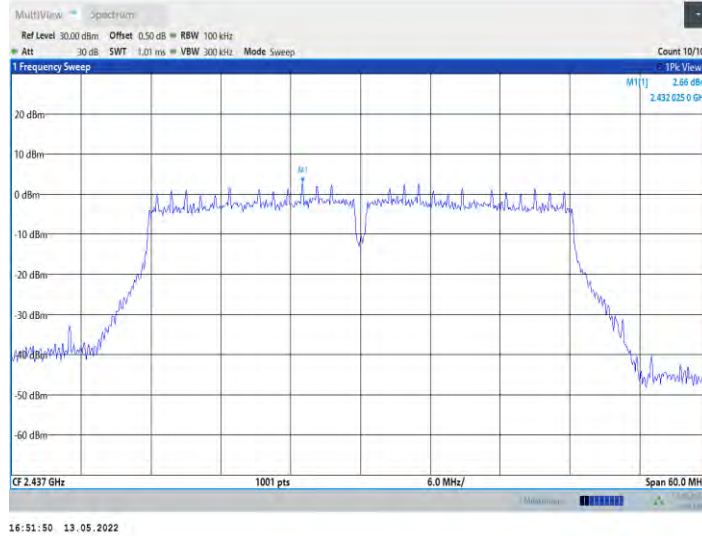


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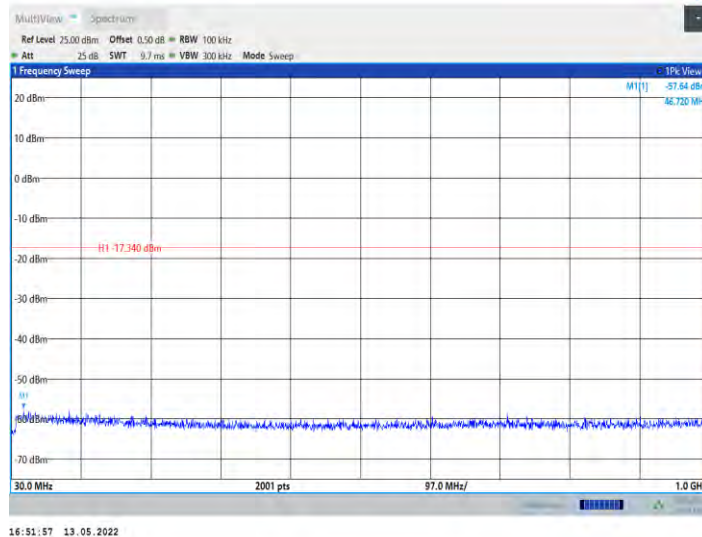
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11N40SISO_Ant0_2437_0~Reference

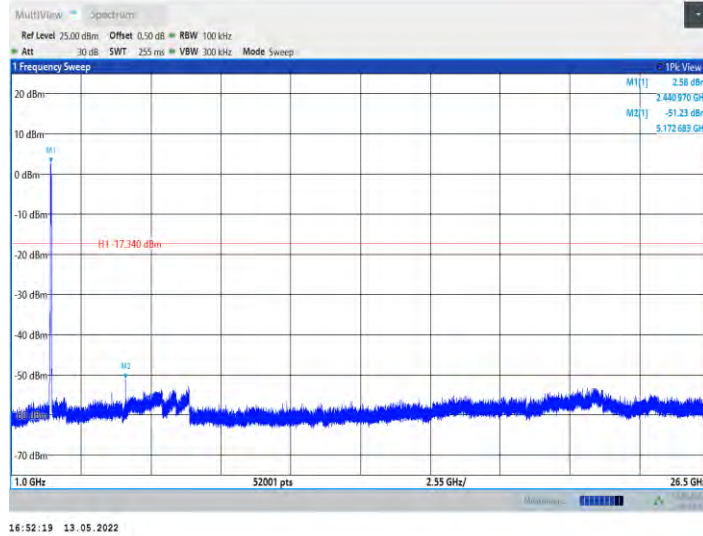


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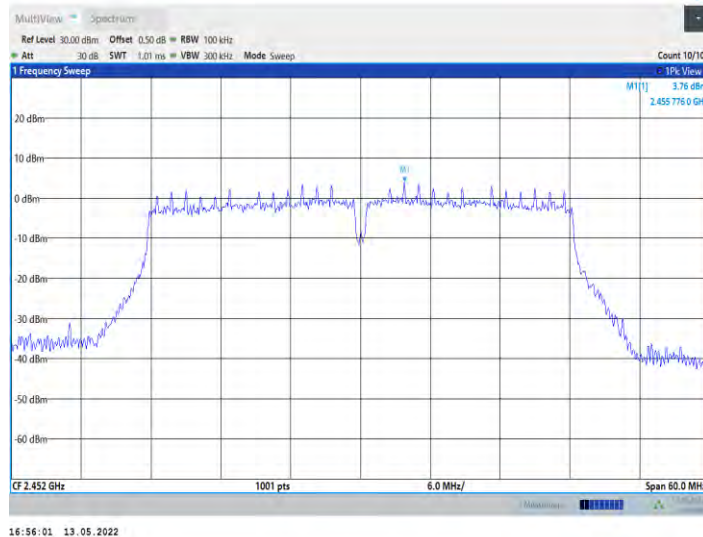


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11N40SISO Ant0 2437 1000~26500



11N40SISO Ant0 2452 0~Reference

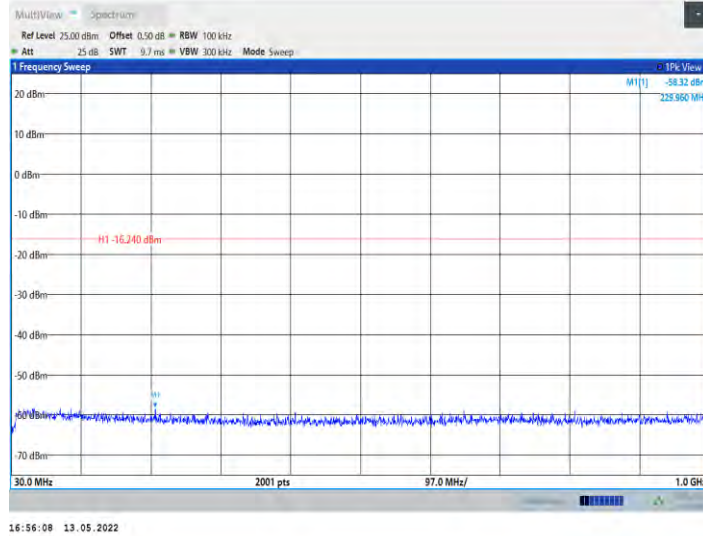


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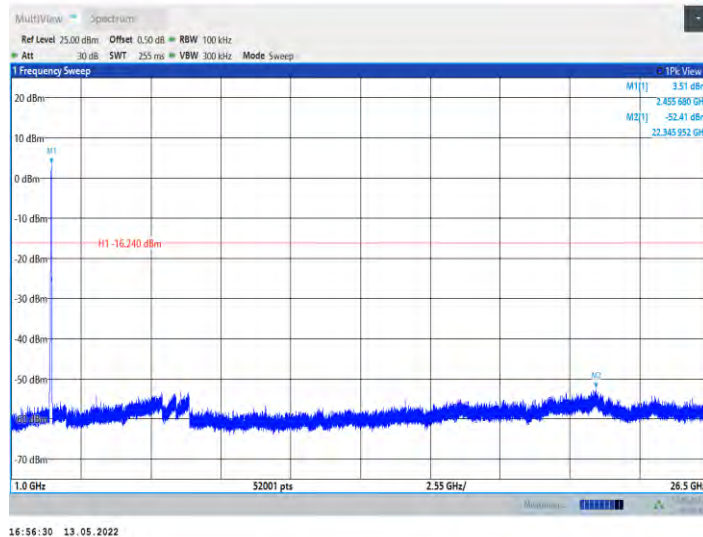
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11N40SISO Ant0 2452_30~1000



11N40SISO Ant0 2452_1000~26500



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Report No.: SEWA2205000012RG04

Rev.: 01

Page: 75 of 119

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant0	2412	12.44	12.56	99.04
11G	Ant0	2412	2.07	2.11	98.10
11N20SISO	Ant0	2412	1.92	1.96	97.96
11N40SISO	Ant0	2422	0.95	1.00	95.00



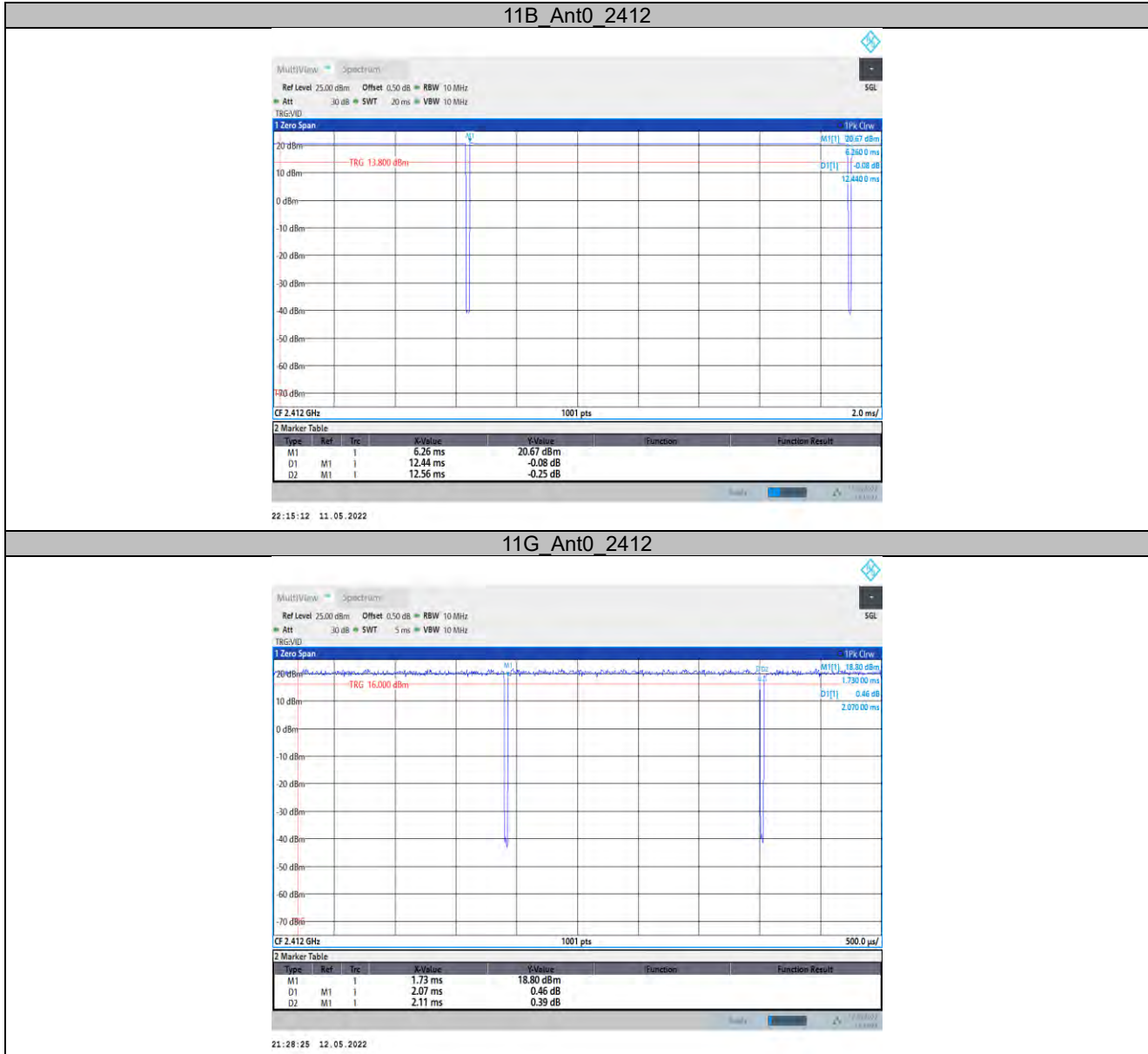
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Test Graphs



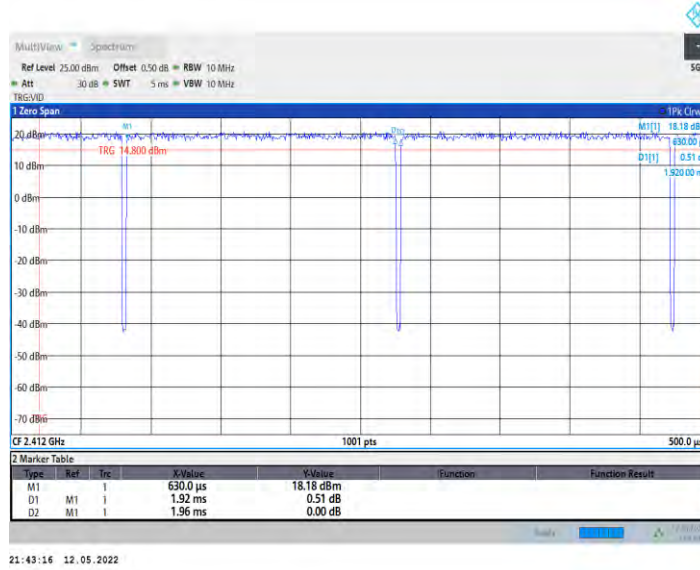
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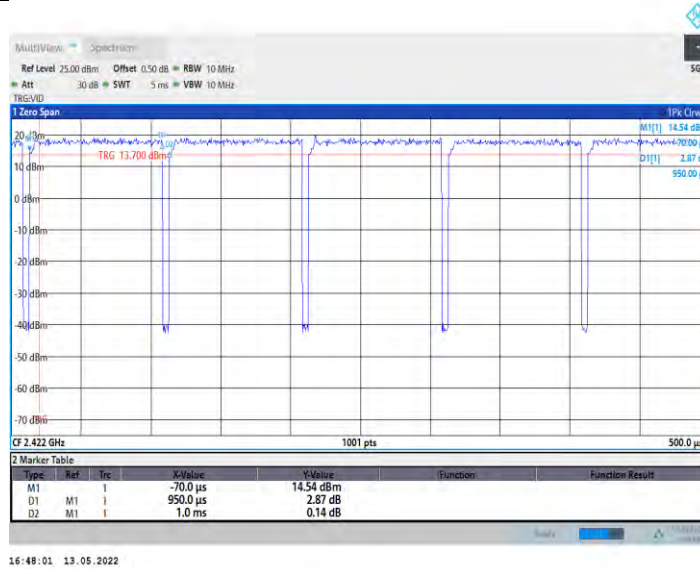
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11N20SISO_Ant0_2412



11N40SISO_Ant0_2422



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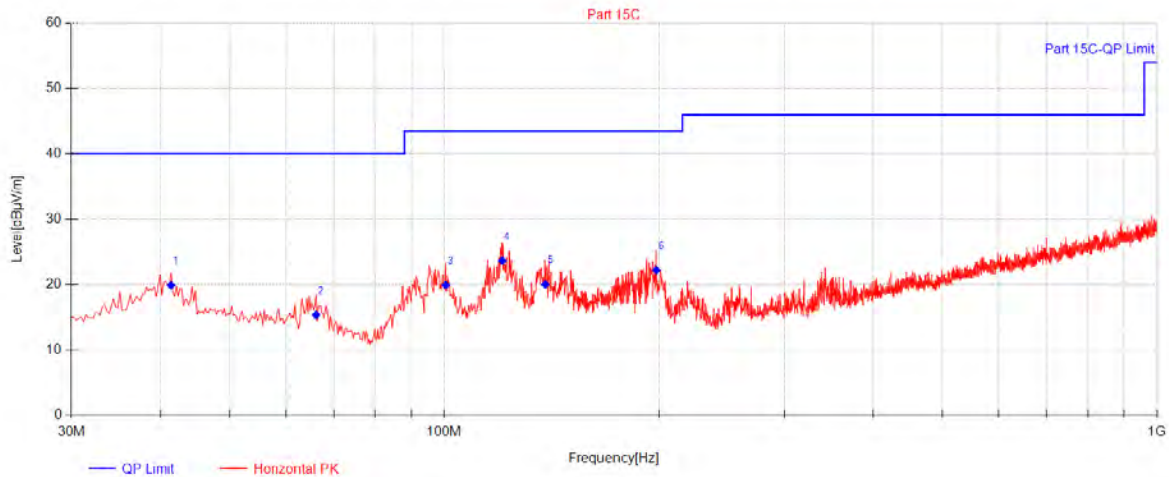
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11n40_Channel 09



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	41.3975	42.18	-22.30	19.88	40.00	20.12	245	109	Horizontal
2	66.1325	40.26	-24.91	15.35	40.00	24.65	266	211	Horizontal
3	100.5675	45.48	-25.58	19.90	43.50	23.60	281	255	Horizontal
4	120.695	47.49	-23.84	23.65	43.50	19.85	199	264	Horizontal
5	138.64	42.16	-22.15	20.01	43.50	23.49	175	276	Horizontal
6	198.5375	47.19	-24.95	22.24	43.50	21.26	140	116	Horizontal

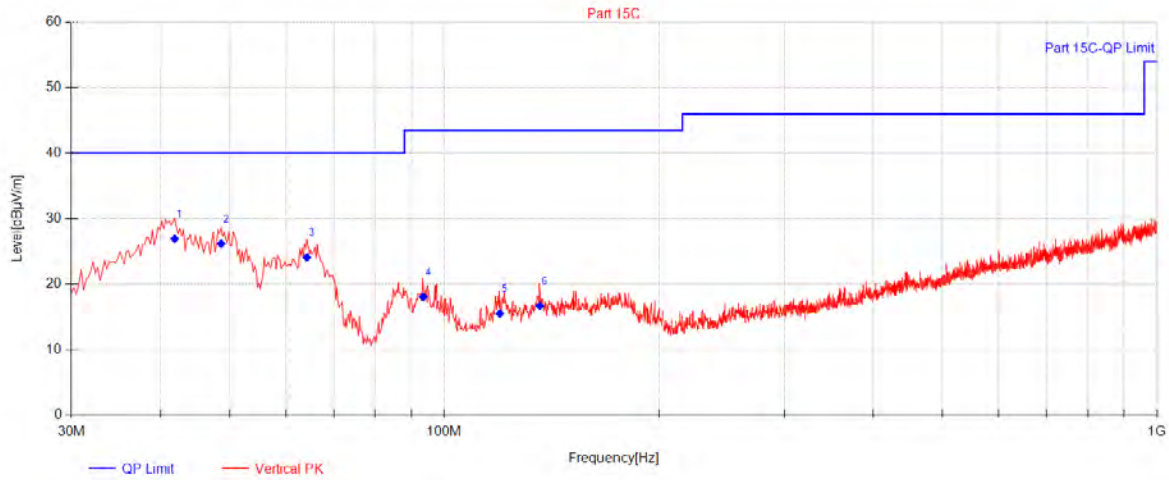


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1	41.8825	49.26	-22.33	26.93	40.00	13.07	126	292	Vertical
2	48.6725	48.78	-22.59	26.19	40.00	13.81	233	243	Vertical
3	64.1925	48.59	-24.51	24.08	40.00	15.92	145	228	Vertical
4	93.535	44.56	-26.50	18.06	43.50	25.44	175	228	Vertical
5	119.725	39.45	-23.94	15.51	43.50	27.99	266	26	Vertical
6	136.215	39.03	-22.35	16.68	43.50	26.82	190	115	Vertical



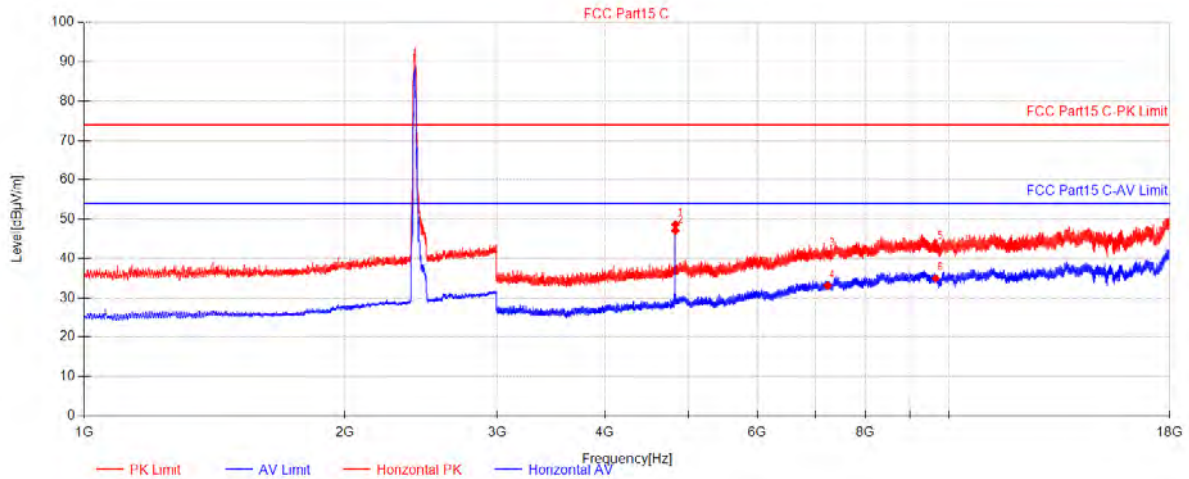
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Transmitter emission Above 1GHz

802.11b_Channel 01



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	61.82	-13.15	48.67	74.00	25.33	165	211	Horizontal
2	4824.5	60.21	-13.15	47.06	54.00	6.94	148	356	Horizontal
3	7236.0000	48.08	-6.96	41.12	74.00	32.88	154	120	Horizontal
4	7236.0000	40.02	-6.96	33.06	54.00	20.94	195	86	Horizontal
5	9648.0000	44.13	-1.17	42.96	74.00	31.04	230	235	Horizontal
6	9648.0000	36.12	-1.17	34.95	54.00	19.05	125	318	Horizontal

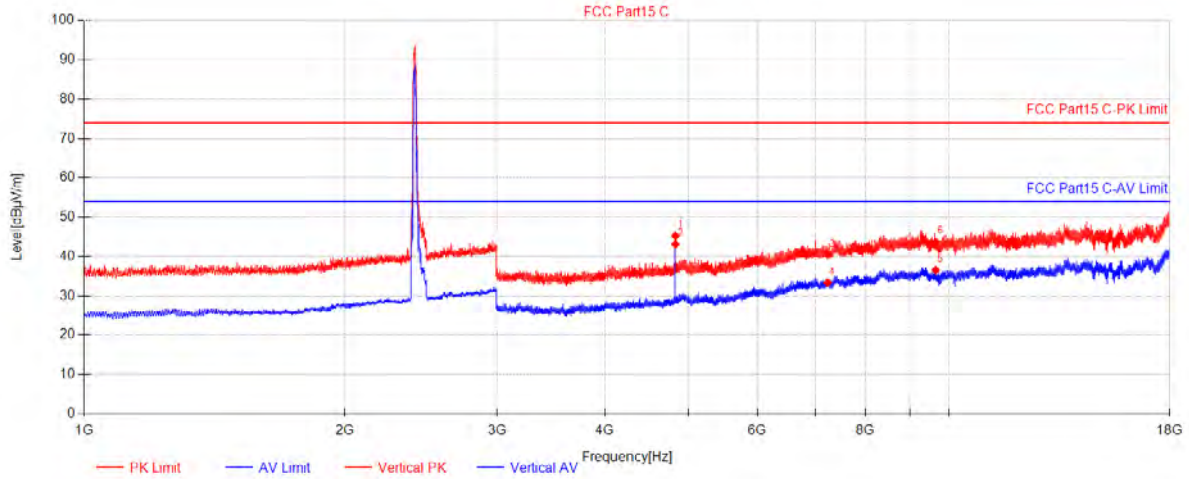


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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	58.38	-13.15	45.23	74.00	28.77	125	300	Vertical
2	4824.5	56.27	-13.15	43.12	54.00	10.88	233	48	Vertical
3	7236.0000	47.41	-6.96	40.45	74.00	33.55	148	279	Vertical
4	7236.0000	40.31	-6.96	33.35	54.00	20.65	299	320	Vertical
5	9648.0000	37.74	-1.17	36.57	54.00	17.43	174	88	Vertical
6	9648.0000	44.91	-1.17	43.74	74.00	30.26	185	184	Vertical

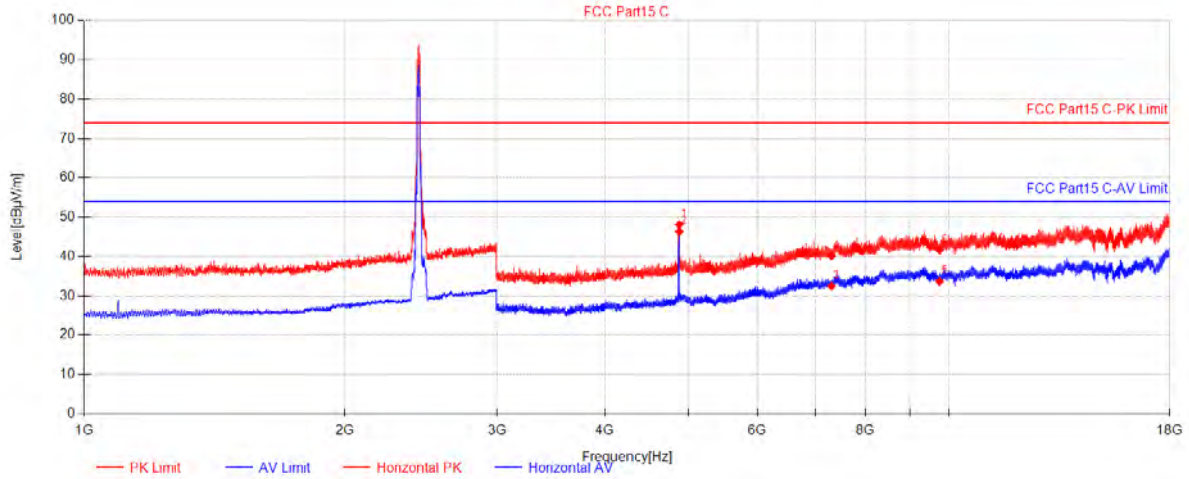


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802.11b_Channel 06



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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	61.14	-13.01	48.13	74.00	25.87	215	338	Horizontal
2	4874.5	59.35	-13.00	46.35	54.00	7.65	148	356	Horizontal
3	7311.0000	39.61	-7.17	32.44	54.00	21.56	196	104	Horizontal
4	7311.0000	47.26	-7.17	40.09	74.00	33.91	234	14	Horizontal
5	9748.0000	34.85	-1.18	33.67	54.00	20.33	170	183	Horizontal
6	9748.0000	42.85	-1.18	41.67	74.00	32.33	122	86	Horizontal

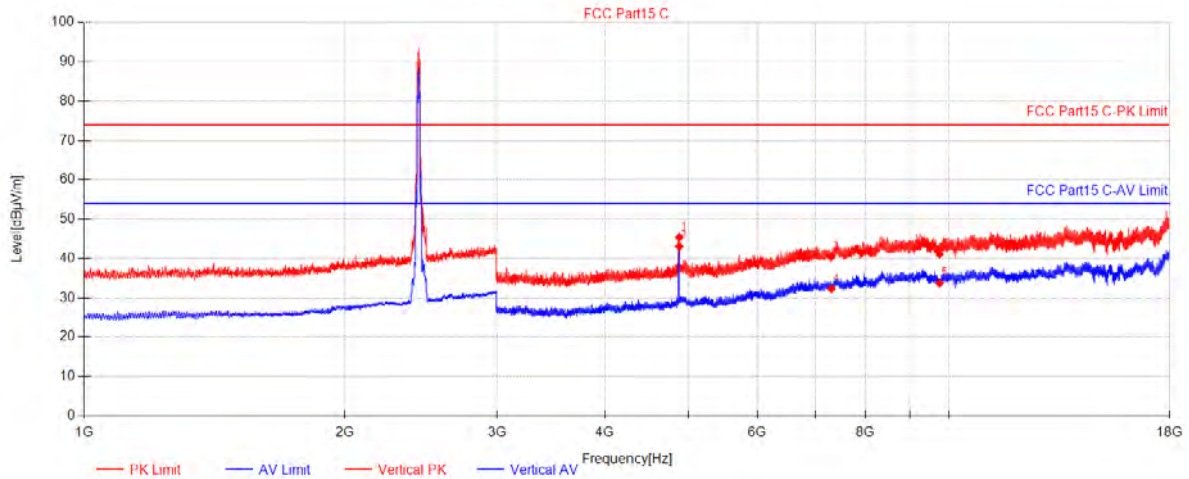


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802.11b_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	58.39	-13.01	45.38	74.00	28.62	154	211	Vertical
2	4874.5	56.13	-13.00	43.13	54.00	10.87	235	106	Vertical
3	7311.0000	47.64	-7.17	40.47	74.00	33.53	105	222	Vertical
4	7311.0000	39.48	-7.17	32.31	54.00	21.69	162	184	Vertical
5	9748.0000	34.90	-1.18	33.72	54.00	20.28	188	67	Vertical
6	9748.0000	42.24	-1.18	41.06	74.00	32.94	194	184	Vertical

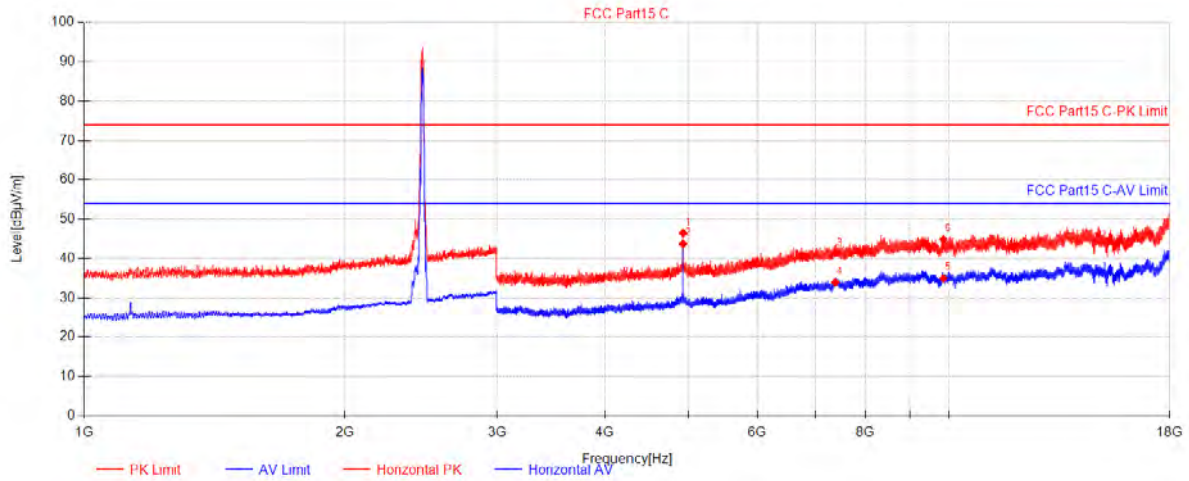


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	59.33	-12.89	46.44	74.00	27.56	154	211	Horizontal
2	4924.5	56.62	-12.89	43.73	54.00	10.27	236	318	Horizontal
3	7386.0000	48.26	-6.96	41.30	74.00	32.70	154	106	Horizontal
4	7386.0000	40.83	-6.96	33.87	54.00	20.13	223	47	Horizontal
5	9848.0000	36.07	-1.12	34.95	54.00	19.05	199	202	Horizontal
6	9848.0000	45.94	-1.12	44.82	74.00	29.18	188	318	Horizontal

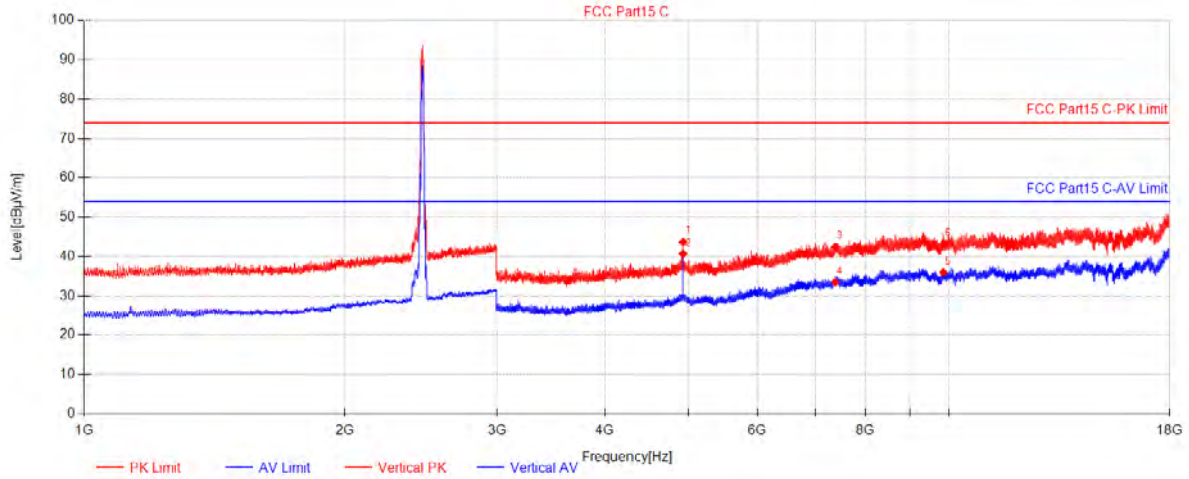


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	56.57	-12.89	43.68	74.00	30.32	214	211	Vertical
2	4924.5	53.57	-12.89	40.68	54.00	13.32	188	105	Vertical
3	7386.0000	49.42	-6.96	42.46	74.00	31.54	133	223	Vertical
4	7386.0000	40.43	-6.96	33.47	54.00	20.53	178	166	Vertical
5	9848.0000	37.10	-1.12	35.98	54.00	18.02	184	25	Vertical
6	9848.0000	44.29	-1.12	43.17	74.00	30.83	269	86	Vertical

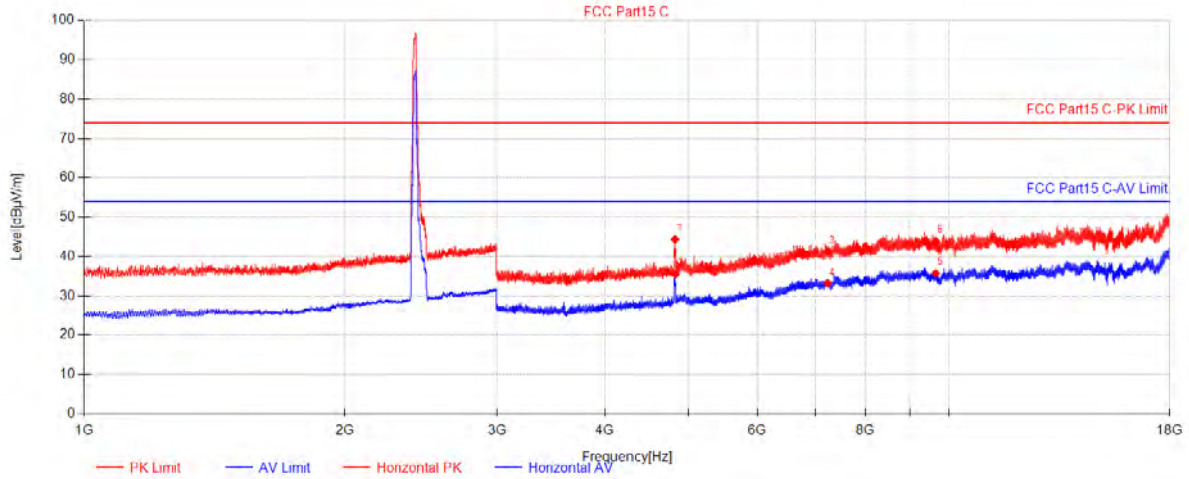


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4819	57.52	-13.16	44.36	74.00	29.64	233	356	Horizontal
2	4825.5	48.60	-13.15	35.45	54.00	18.55	201	339	Horizontal
3	7236.0000	48.20	-6.96	41.24	74.00	32.76	196	319	Horizontal
4	7236.0000	40.13	-6.96	33.17	54.00	20.83	184	301	Horizontal
5	9648.0000	36.98	-1.17	35.81	54.00	18.19	172	3	Horizontal
6	9648.0000	45.11	-1.17	43.94	74.00	30.06	210	185	Horizontal

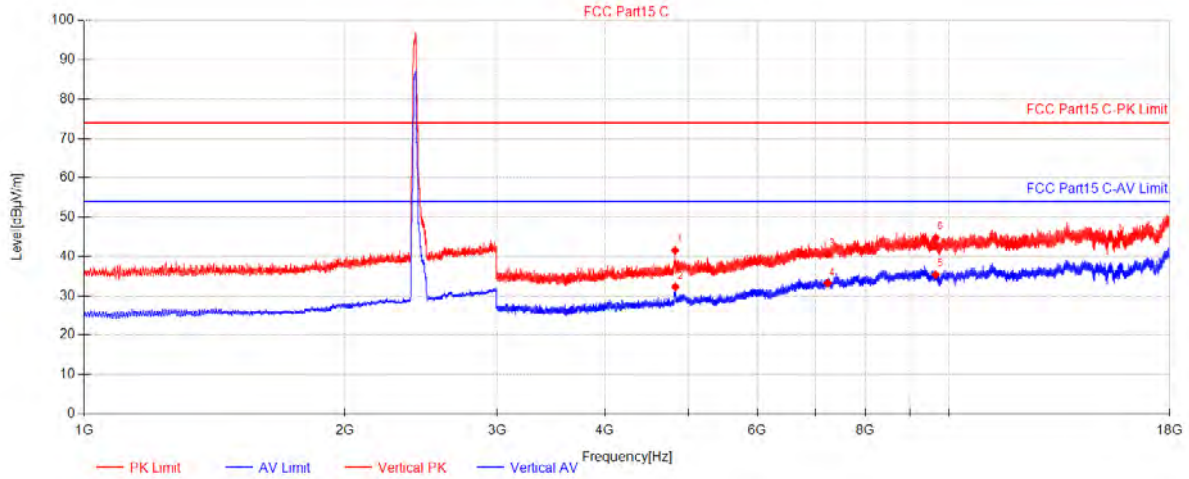


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4820	54.71	-13.16	41.55	74.00	32.45	256	85	Vertical
2	4824.5	45.44	-13.15	32.29	54.00	21.71	125	320	Vertical
3	7236.0000	47.46	-6.96	40.50	74.00	33.50	148	164	Vertical
4	7236.0000	40.16	-6.96	33.20	54.00	20.80	196	23	Vertical
5	9648.0000	36.53	-1.17	35.36	54.00	18.64	172	147	Vertical
6	9648.0000	45.92	-1.17	44.75	74.00	29.25	230	2	Vertical

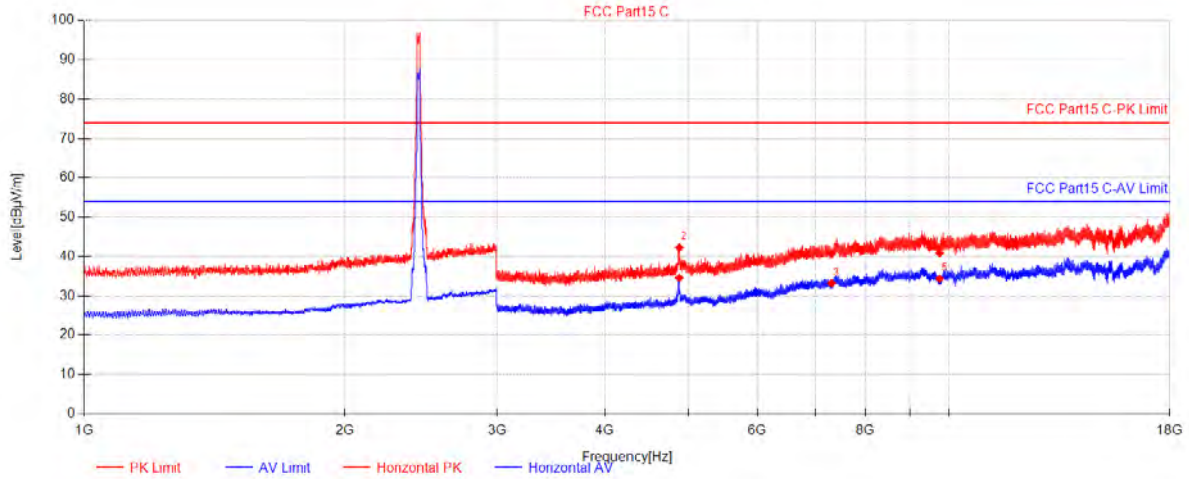


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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.59	-13.01	34.58	54.00	19.42	215	356	Horizontal
2	4875.5	55.28	-13.00	42.28	74.00	31.72	233	127	Horizontal
3	7311.0000	40.34	-7.17	33.17	54.00	20.83	172	184	Horizontal
4	7311.0000	47.84	-7.17	40.67	74.00	33.33	164	280	Horizontal
5	9748.0000	35.52	-1.18	34.34	54.00	19.66	190	49	Horizontal
6	9748.0000	42.03	-1.18	40.85	74.00	33.15	188	218	Horizontal

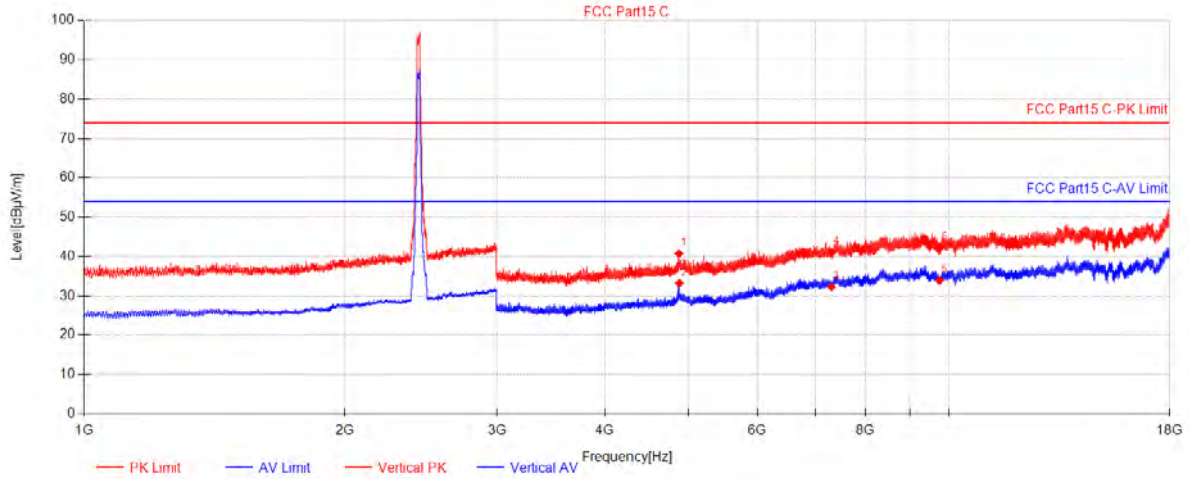


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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4871	53.73	-13.01	40.72	74.00	33.28	285	28	Vertical
2	4875	46.17	-13.00	33.17	54.00	20.83	146	106	Vertical
3	7311.0000	39.44	-7.17	32.27	54.00	21.73	122	12	Vertical
4	7311.0000	48.31	-7.17	41.14	74.00	32.86	196	12	Vertical
5	9748.0000	35.12	-1.18	33.94	54.00	20.06	170	223	Vertical
6	9748.0000	43.39	-1.18	42.21	74.00	31.79	235	202	Vertical

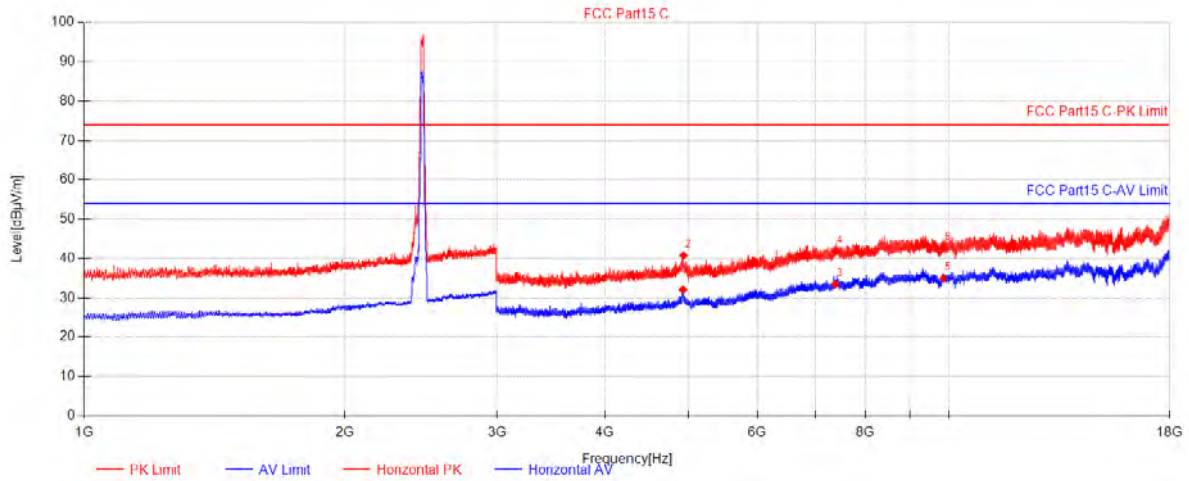


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923	44.97	-12.89	32.08	54.00	21.92	236	318	Horizontal
2	4929	53.65	-12.88	40.77	74.00	33.23	251	183	Horizontal
3	7386.0000	40.40	-6.96	33.44	54.00	20.56	177	280	Horizontal
4	7386.0000	48.76	-6.96	41.80	74.00	32.20	269	111	Horizontal
5	9848.0000	36.06	-1.12	34.94	54.00	19.06	182	242	Horizontal
6	9848.0000	43.86	-1.12	42.74	74.00	31.26	145	300	Horizontal

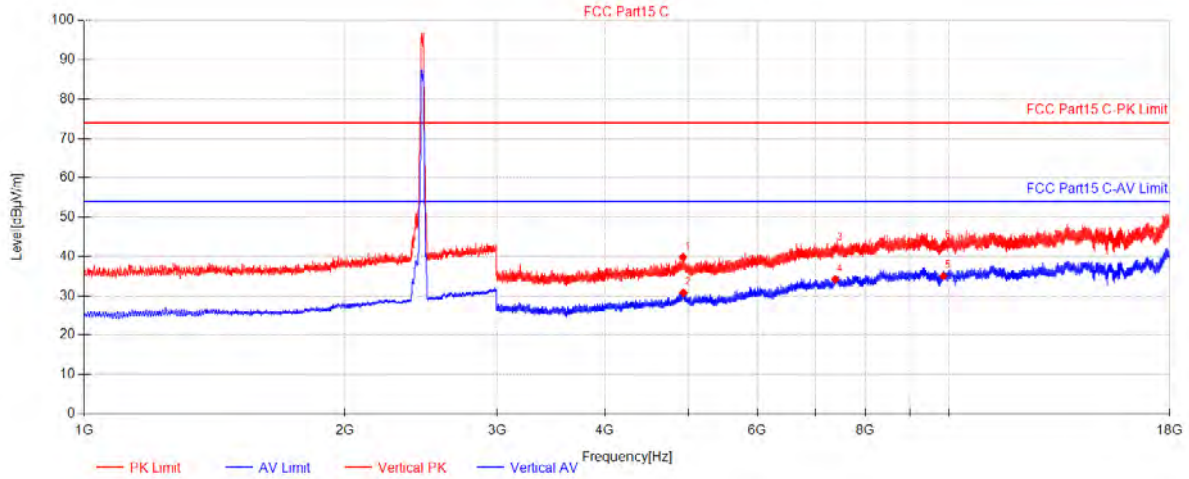


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4921.5	52.68	-12.89	39.79	74.00	34.21	269	29	Vertical
2	4928.5	43.69	-12.88	30.81	54.00	23.19	254	259	Vertical
3	7386.0000	48.94	-6.96	41.98	74.00	32.02	266	127	Vertical
4	7386.0000	41.16	-6.96	34.20	54.00	19.80	194	65	Vertical
5	9848.0000	36.16	-1.12	35.04	54.00	18.96	185	0	Vertical
6	9848.0000	43.82	-1.12	42.70	74.00	31.30	142	202	Vertical

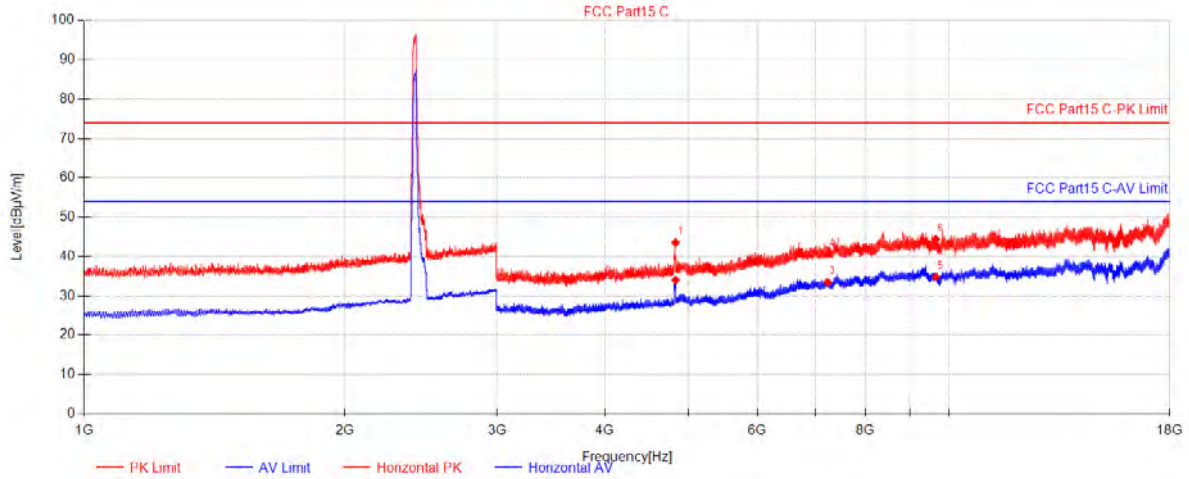


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4826.5	56.69	-13.14	43.55	74.00	30.45	165	122	Horizontal
2	4827	47.12	-13.14	33.98	54.00	20.02	145	356	Horizontal
3	7236.0000	40.39	-6.96	33.43	54.00	20.57	133	319	Horizontal
4	7236.0000	47.54	-6.96	40.58	74.00	33.42	195	109	Horizontal
5	9648.0000	36.00	-1.17	34.83	54.00	19.17	301	280	Horizontal
6	9648.0000	45.57	-1.17	44.40	74.00	29.60	182	27	Horizontal

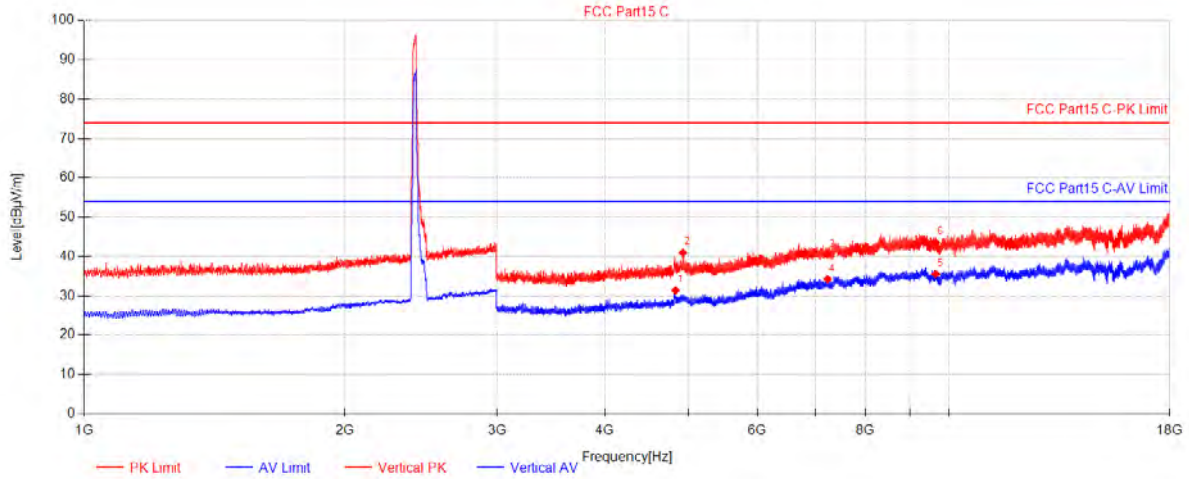


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4826.5	44.53	-13.14	31.39	54.00	22.61	210	242	Vertical
2	4921.5	53.84	-12.89	40.95	74.00	33.05	201	146	Vertical
3	7236.0000	47.43	-6.96	40.47	74.00	33.53	155	164	Vertical
4	7236.0000	41.17	-6.96	34.21	54.00	19.79	216	85	Vertical
5	9648.0000	36.72	-1.17	35.55	54.00	18.45	172	222	Vertical
6	9648.0000	44.70	-1.17	43.53	74.00	30.47	194	2	Vertical

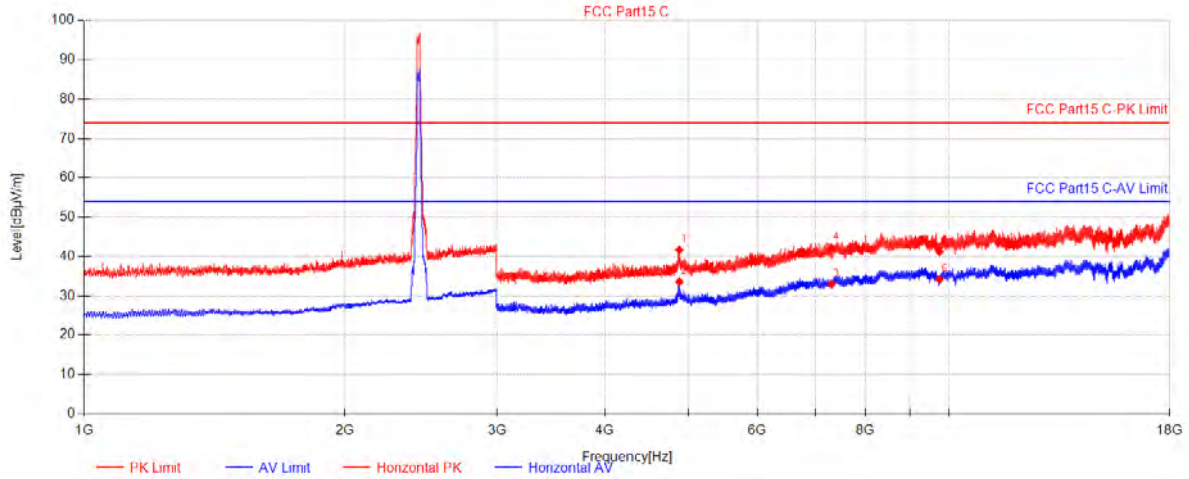


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802.11n20_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4875	54.68	-13.00	41.68	74.00	32.32	216	215	Horizontal
2	4876	46.57	-13.00	33.57	54.00	20.43	194	23	Horizontal
3	7311.0000	40.15	-7.17	32.98	54.00	21.02	185	25	Horizontal
4	7311.0000	49.39	-7.17	42.22	74.00	31.78	201	15	Horizontal
5	9748.0000	42.34	-1.18	41.16	74.00	32.84	233	68	Horizontal
6	9748.0000	35.39	-1.18	34.21	54.00	19.79	172	199	Horizontal

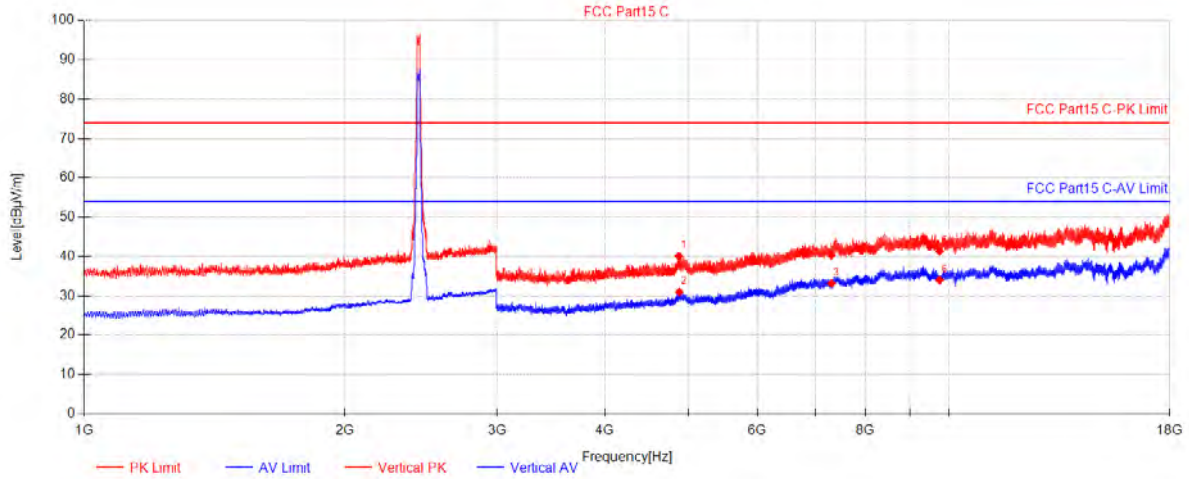


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802.11n20_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4870	53.10	-13.02	40.08	74.00	33.92	184	105	Vertical
2	4875	44.00	-13.00	31.00	54.00	23.00	195	105	Vertical
3	7311.0000	40.29	-7.17	33.12	54.00	20.88	123	56	Vertical
4	7311.0000	47.51	-7.17	40.34	74.00	33.66	266	11	Vertical
5	9748.0000	42.48	-1.18	41.30	74.00	32.70	180	233	Vertical
6	9748.0000	35.17	-1.18	33.99	54.00	20.01	214	46	Vertical

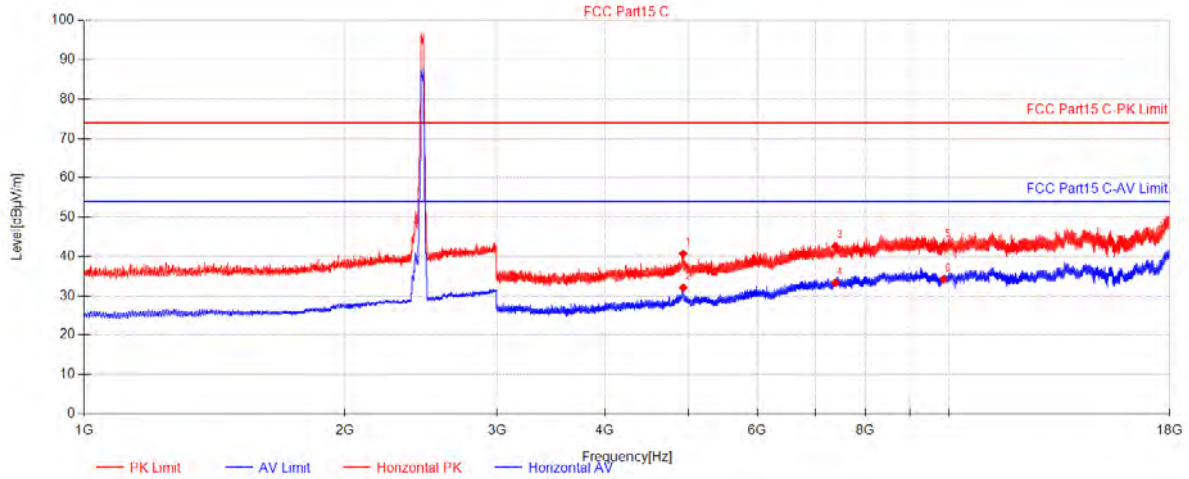


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4925	53.59	-12.89	40.70	74.00	33.30	235	58	Horizontal
2	4925.5	44.94	-12.89	32.05	54.00	21.95	154	318	Horizontal
3	7386.0000	49.61	-6.96	42.65	74.00	31.35	201	13	Horizontal
4	7386.0000	40.27	-6.96	33.31	54.00	20.69	196	182	Horizontal
5	9848.0000	44.02	-1.12	42.90	74.00	31.10	142	30	Horizontal
6	9848.0000	35.32	-1.12	34.20	54.00	19.80	175	242	Horizontal

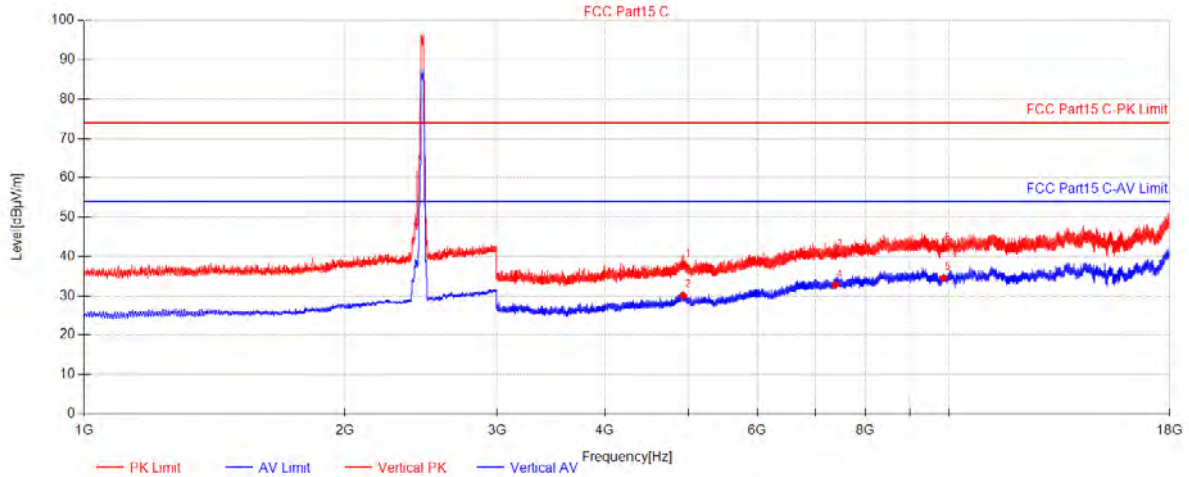


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	50.69	-12.89	37.80	74.00	36.20	285	233	Vertical
2	4924.0000	43.03	-12.89	30.14	54.00	23.86	194	281	Vertical
3	7386.0000	47.29	-6.96	40.33	74.00	33.67	236	28	Vertical
4	7386.0000	39.73	-6.96	32.77	54.00	21.23	185	320	Vertical
5	9848.0000	35.64	-1.12	34.52	54.00	19.48	154	11	Vertical
6	9848.0000	43.27	-1.12	42.15	74.00	31.85	254	300	Vertical

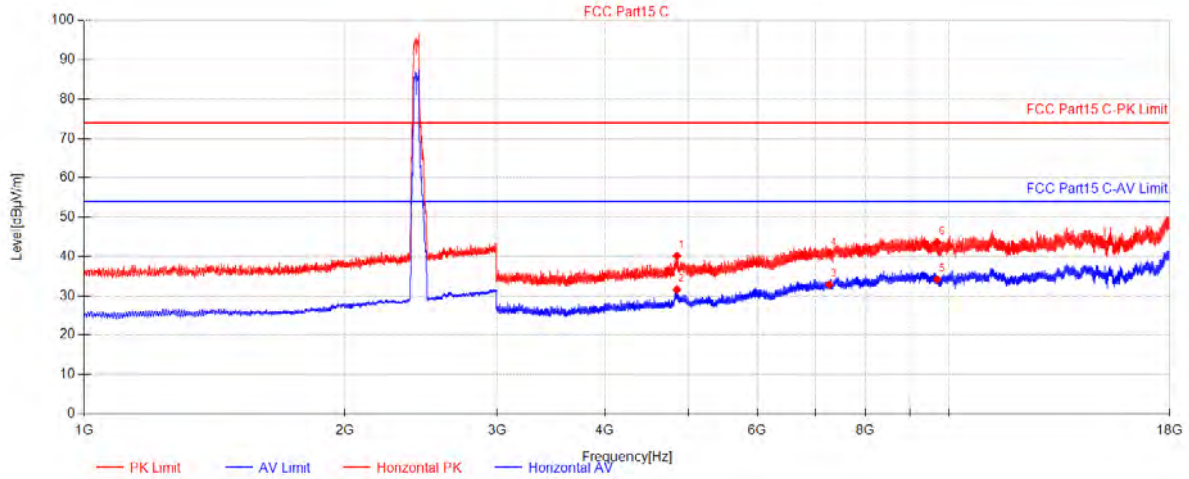


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4843.5	53.20	-13.09	40.11	74.00	33.89	211	183	Horizontal
2	4844.0000	44.67	-13.09	31.58	54.00	22.42	201	337	Horizontal
3	7266.0000	39.90	-7.07	32.83	54.00	21.17	154	262	Horizontal
4	7266.0000	47.95	-7.07	40.88	74.00	33.12	165	2	Horizontal
5	9688.0000	35.28	-1.12	34.16	54.00	19.84	184	281	Horizontal
6	9688.0000	44.69	-1.12	43.57	74.00	30.43	196	223	Horizontal

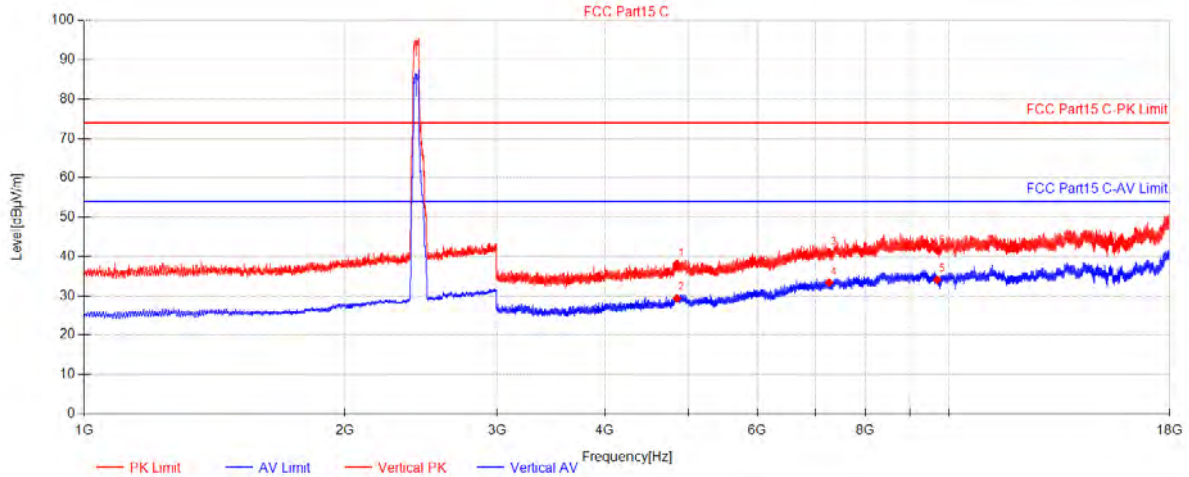


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0000	51.20	-13.09	38.11	74.00	35.89	296	152	Vertical
2	4844.0000	42.46	-13.09	29.37	54.00	24.63	213	88	Vertical
3	7266.0000	48.10	-7.07	41.03	74.00	32.97	288	224	Vertical
4	7266.0000	40.43	-7.07	33.36	54.00	20.64	183	242	Vertical
5	9688.0000	35.18	-1.12	34.06	54.00	19.94	179	125	Vertical
6	9688.0000	42.59	-1.12	41.47	74.00	32.53	241	300	Vertical

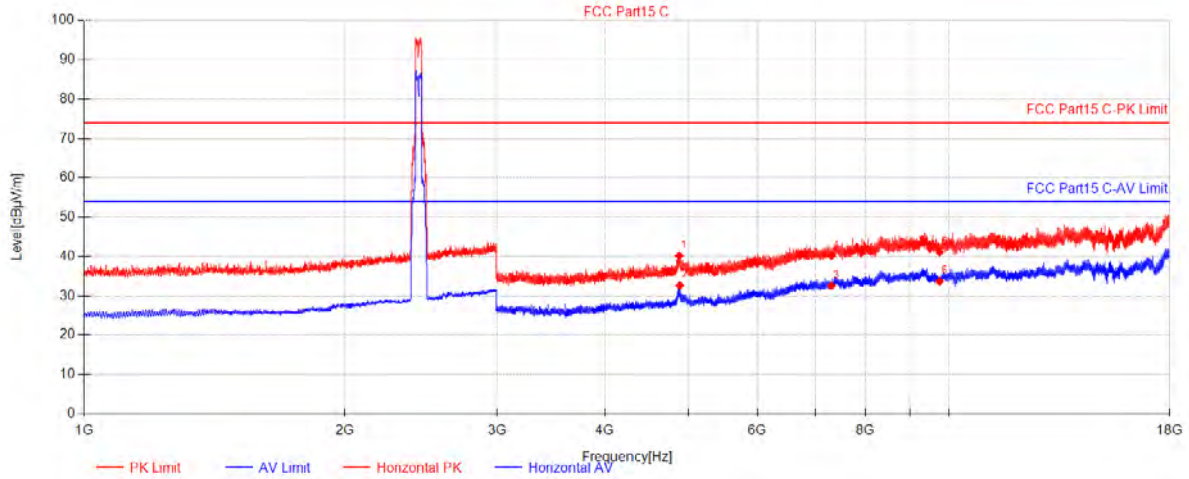


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802.11n40_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.5	53.16	-13.00	40.16	74.00	33.84	254	338	Horizontal
2	4882	45.59	-12.98	32.61	54.00	21.39	256	356	Horizontal
3	7311.0000	39.71	-7.17	32.54	54.00	21.46	235	109	Horizontal
4	7311.0000	47.37	-7.17	40.20	74.00	33.80	178	14	Horizontal
5	9748.0000	42.27	-1.18	41.09	74.00	32.91	194	280	Horizontal
6	9748.0000	34.83	-1.18	33.65	54.00	20.35	161	204	Horizontal

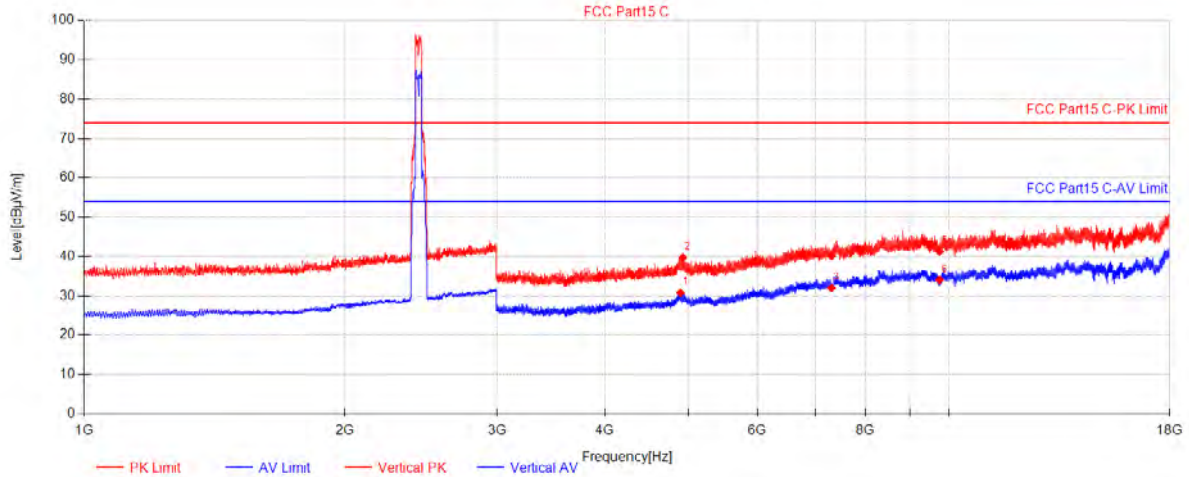


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802.11n40_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4890.5	43.76	-12.96	30.80	54.00	23.20	285	115	Vertical
2	4921.5	52.60	-12.89	39.71	74.00	34.29	194	328	Vertical
3	7311.0000	39.16	-7.17	31.99	54.00	22.01	176	270	Vertical
4	7311.0000	47.29	-7.17	40.12	74.00	33.88	211	78	Vertical
5	9748.0000	42.42	-1.18	41.24	74.00	32.76	126	300	Vertical
6	9748.0000	35.21	-1.18	34.03	54.00	19.97	230	68	Vertical

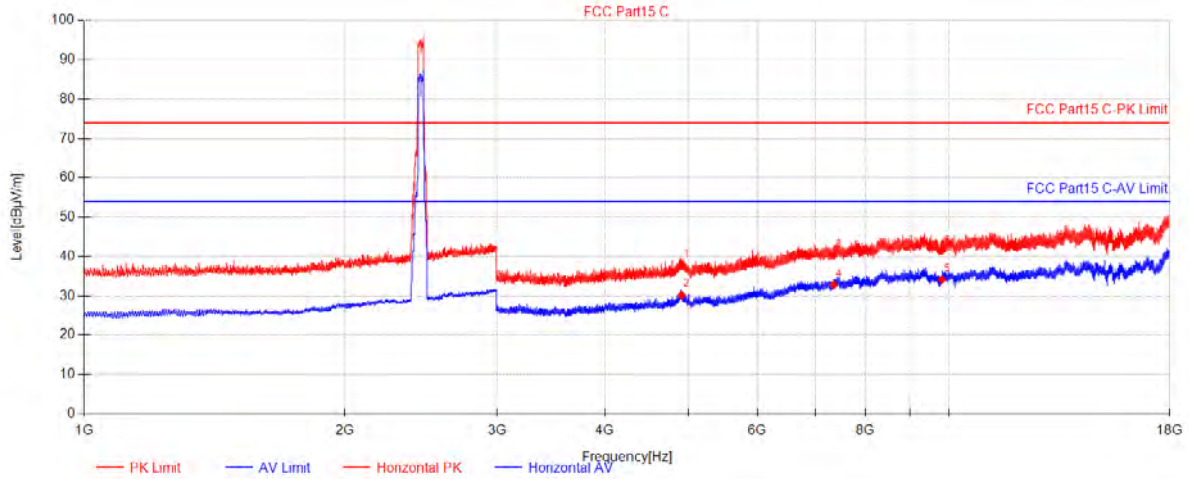


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	50.79	-12.92	37.87	74.00	36.13	155	4	Horizontal
2	4904.0000	43.13	-12.92	30.21	54.00	23.79	149	357	Horizontal
3	7356.0000	47.39	-7.05	40.34	74.00	33.66	184	232	Horizontal
4	7356.0000	39.84	-7.05	32.79	54.00	21.21	191	155	Horizontal
5	9808.0000	35.37	-1.24	34.13	54.00	19.87	172	311	Horizontal
6	9808.0000	42.73	-1.24	41.49	74.00	32.51	222	346	Horizontal

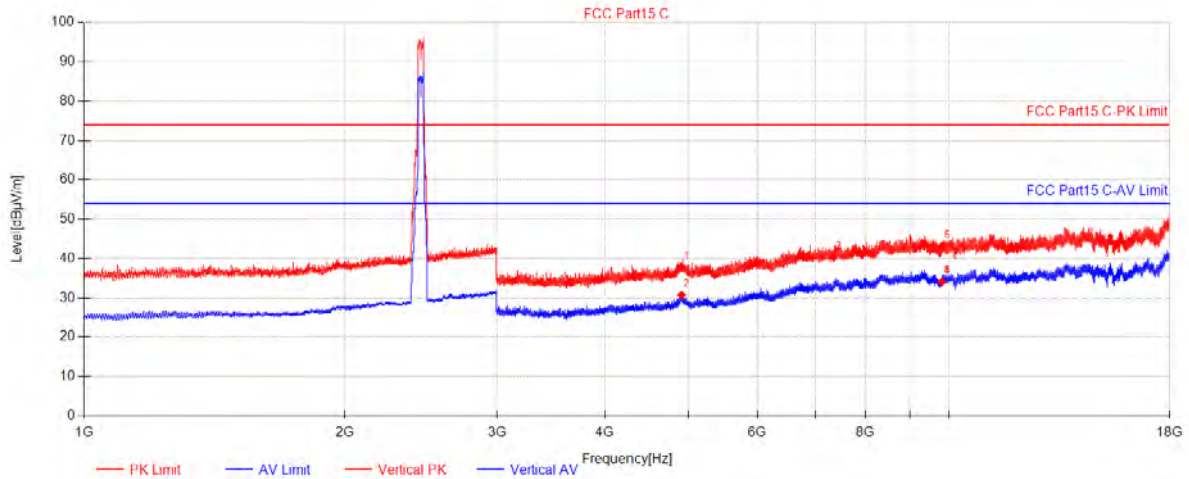


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	50.78	-12.92	37.86	74.00	36.14	158	118	Vertical
2	4904.0000	43.64	-12.92	30.72	54.00	23.28	194	360	Vertical
3	7356.0000	47.37	-7.05	40.32	74.00	33.68	175	291	Vertical
4	9808.0000	35.30	-1.24	34.06	54.00	19.94	251	271	Vertical
5	9808.0000	35.30	-1.24	34.06	54.00	19.94	302	271	Vertical
6	9808.0000	44.44	-1.24	43.20	74.00	30.80	166	213	Vertical



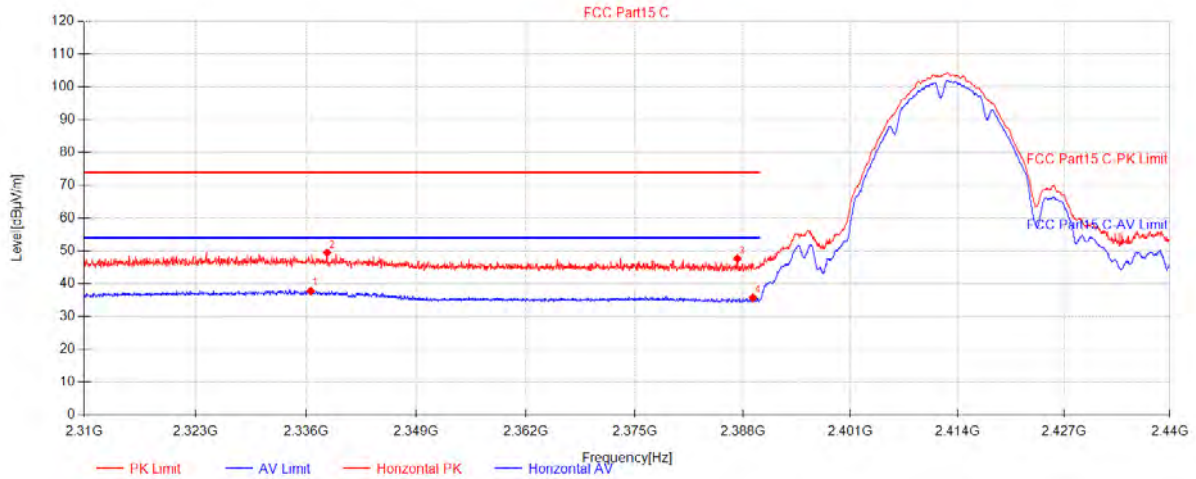
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Restricted bands around fundamental frequency

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	2336.52	34.70	3.09	37.79	54.00	16.21	165	306	Horizontal
2	2338.47	46.38	3.09	49.47	74.00	24.53	165	306	Horizontal
3	2387.35	44.57	3.07	47.64	74.00	26.36	165	306	Horizontal
4	2389.2133	32.68	3.07	35.75	54.00	18.25	165	306	Horizontal



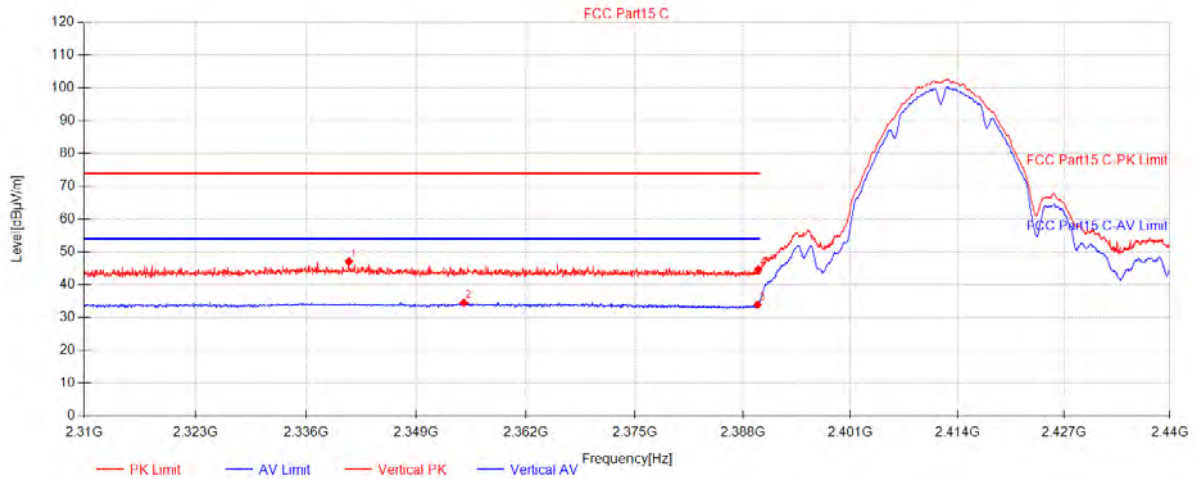
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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2341.0267	43.96	3.09	47.05	74.00	26.95	286	149	Vertical
2	2354.6333	31.45	3.08	34.53	54.00	19.47	286	149	Vertical
3	2389.7767	30.84	3.07	33.91	54.00	20.09	286	149	Vertical
4	2389.8633	41.59	3.07	44.66	74.00	29.34	286	149	Vertical

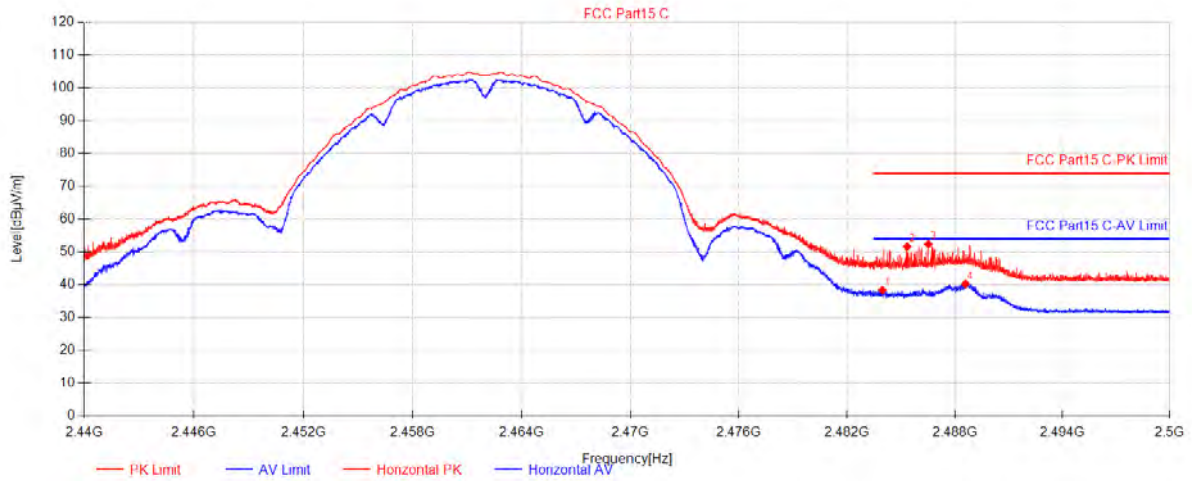


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.965	34.73	3.60	38.33	54.00	15.67	266	128	Horizontal
2	2485.345	48.03	3.61	51.64	74.00	22.36	266	128	Horizontal
3	2486.5225	48.78	3.62	52.40	74.00	21.60	266	128	Horizontal
4	2488.585	36.62	3.63	40.25	54.00	13.75	266	128	Horizontal

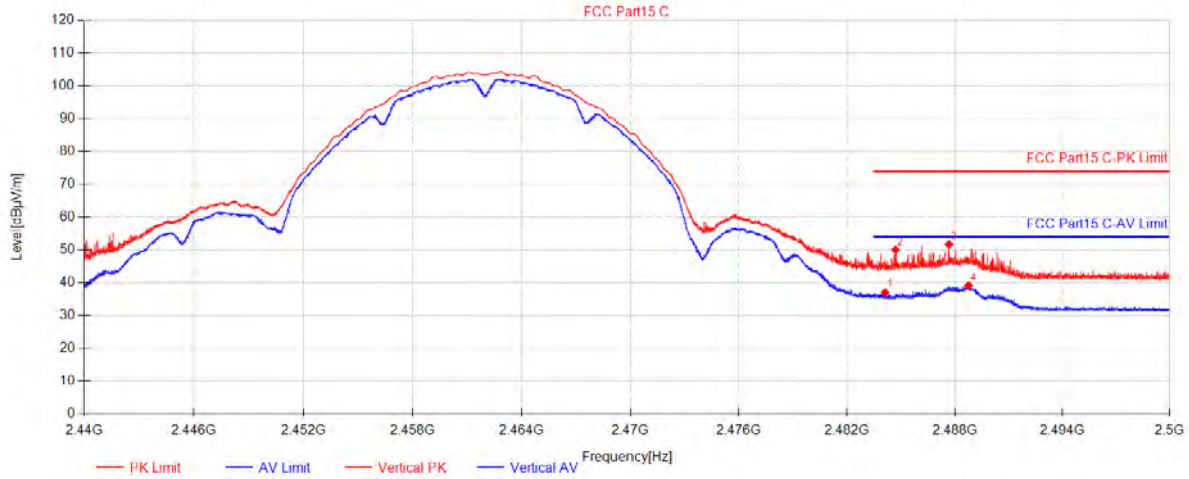


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.115	33.45	3.60	37.05	54.00	16.95	215	85	Vertical
2	2484.6925	46.47	3.60	50.07	74.00	23.93	215	85	Vertical
3	2487.67	48.12	3.62	51.74	74.00	22.26	215	85	Vertical
4	2488.7575	35.52	3.63	39.15	54.00	14.85	215	85	Vertical

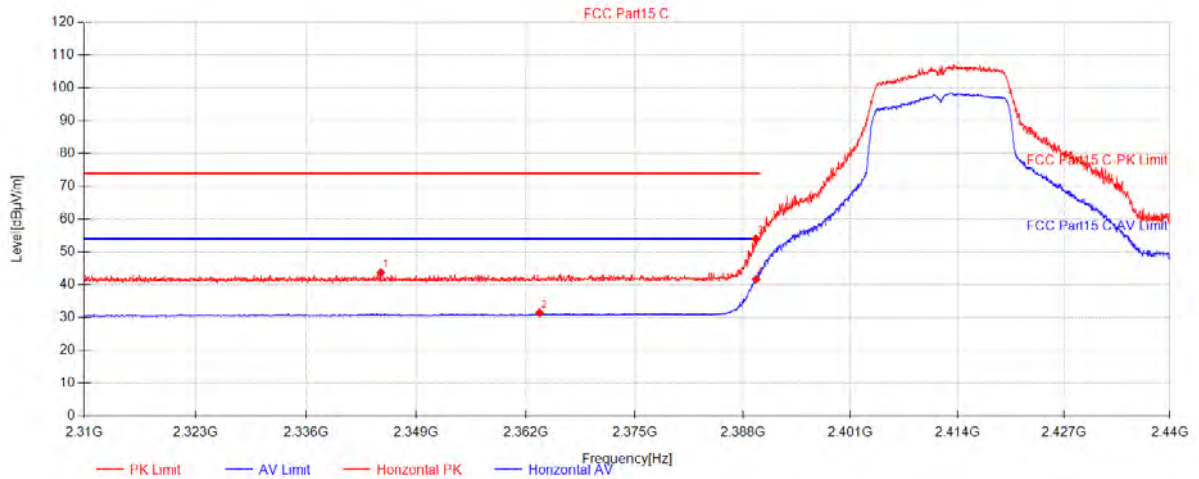


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2344.7967	40.67	3.09	43.76	74.00	30.24	202	316	Horizontal
2	2363.6467	28.34	3.08	31.42	54.00	22.58	202	316	Horizontal
3	2389.56	50.86	3.07	53.93	74.00	20.07	202	316	Horizontal
4	2389.6033	38.59	3.07	41.66	54.00	12.34	202	316	Horizontal

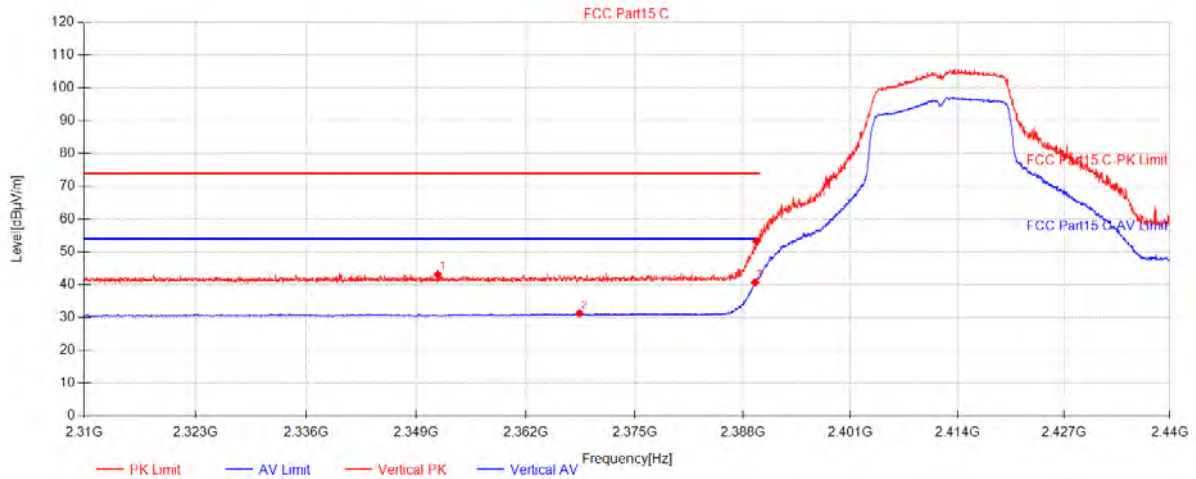


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.5567	40.08	3.08	43.16	74.00	30.84	288	240	Vertical
2	2368.4133	28.20	3.08	31.28	54.00	22.72	288	240	Vertical
3	2389.4733	37.59	3.07	40.66	54.00	13.34	288	240	Vertical
4	2389.6467	50.16	3.07	53.23	74.00	20.77	288	240	Vertical

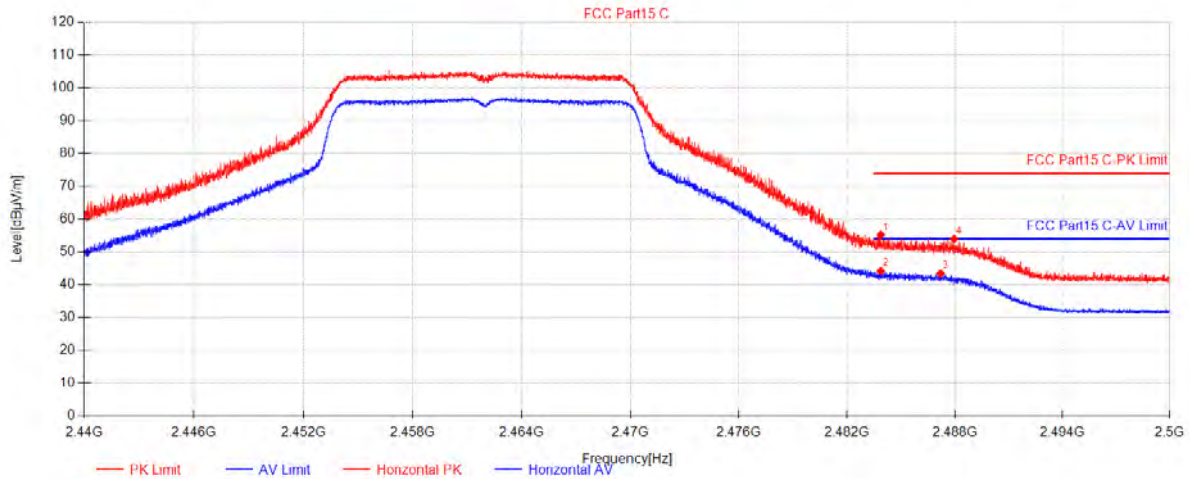


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.875	51.60	3.60	55.20	74.00	18.80	222	128	Horizontal
2	2483.875	40.60	3.60	44.20	54.00	9.80	222	128	Horizontal
3	2487.205	39.81	3.62	43.43	54.00	10.57	222	128	Horizontal
4	2487.9625	50.34	3.62	53.96	74.00	20.04	222	128	Horizontal



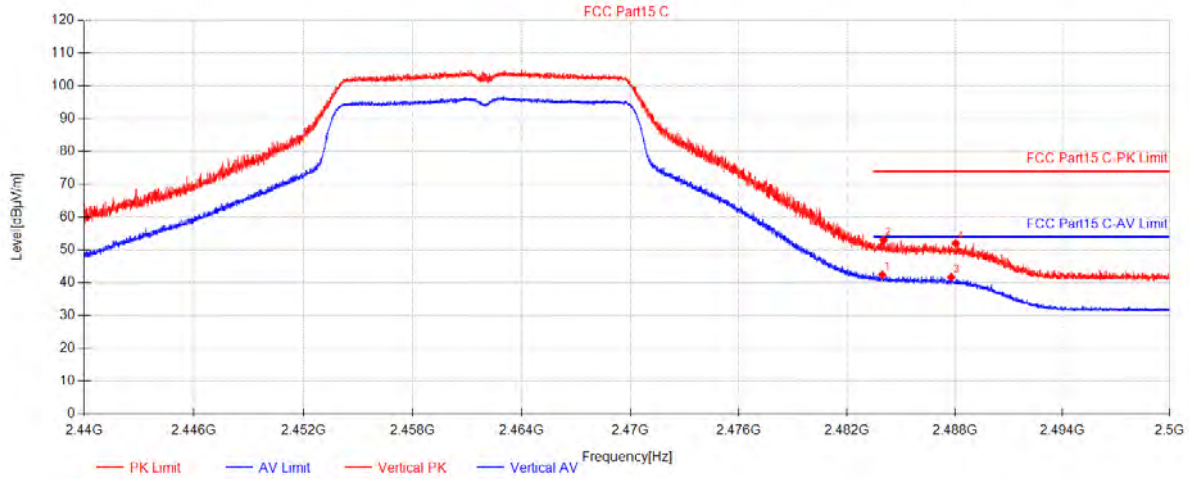
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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.9575	38.85	3.60	42.45	54.00	11.55	298	106	Vertical
2	2484.04	49.44	3.60	53.04	74.00	20.96	298	106	Vertical
3	2487.7975	38.07	3.62	41.69	54.00	12.31	298	106	Vertical
4	2488.045	48.43	3.62	52.05	74.00	21.95	298	106	Vertical

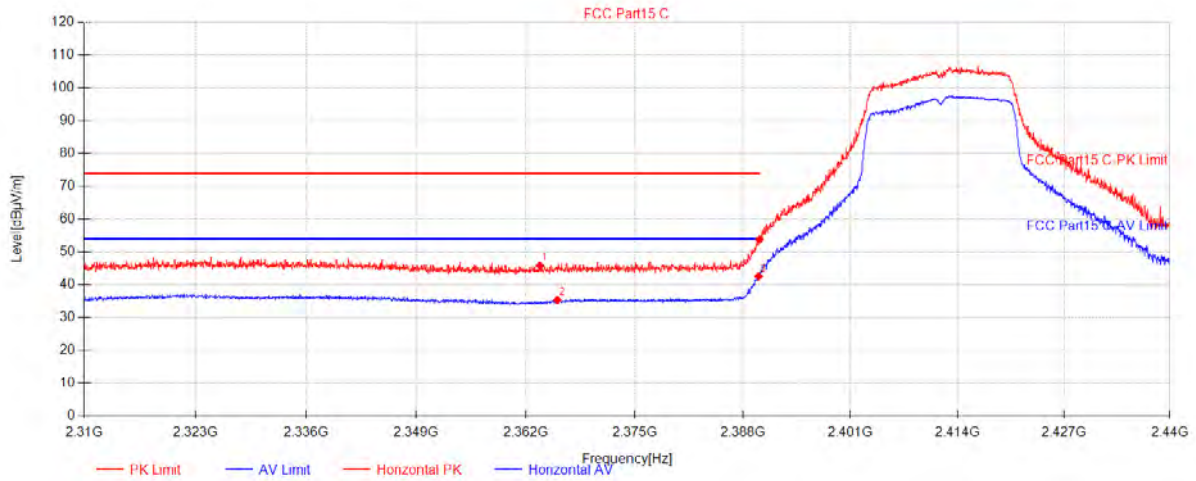


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.69	42.74	3.08	45.82	74.00	28.18	199	144	Horizontal
2	2365.77	32.32	3.08	35.40	54.00	18.60	199	144	Horizontal
3	2389.9067	39.48	3.07	42.55	54.00	11.45	199	144	Horizontal
4	2389.9933	50.65	3.07	53.72	74.00	20.28	199	144	Horizontal



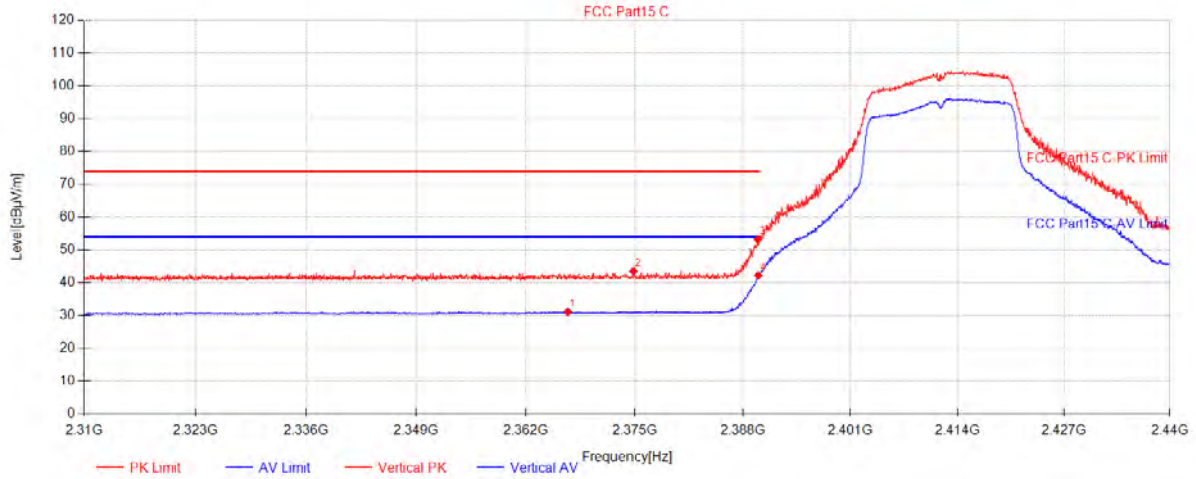
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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.0267	28.04	3.08	31.12	54.00	22.88	212	131	Vertical
2	2374.87	40.48	3.08	43.56	74.00	30.44	212	131	Vertical
3	2389.82	50.15	3.07	53.22	74.00	20.78	212	131	Vertical
4	2389.8633	39.16	3.07	42.23	54.00	11.77	212	131	Vertical

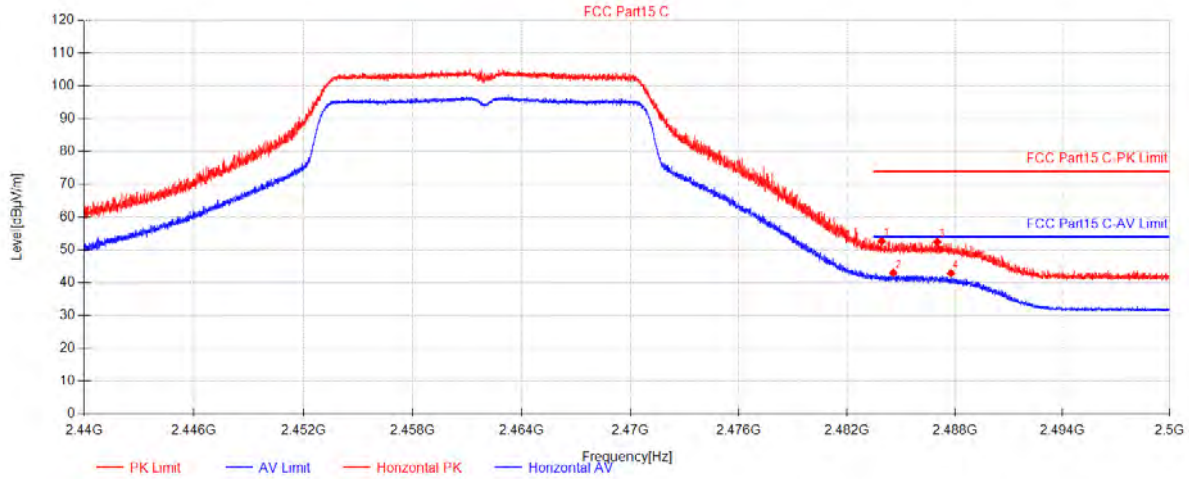


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.9275	49.09	3.60	52.69	74.00	21.31	236	129	Horizontal
2	2484.5725	39.45	3.60	43.05	54.00	10.95	236	129	Horizontal
3	2487.0175	48.83	3.62	52.45	74.00	21.55	236	129	Horizontal
4	2487.7825	39.30	3.62	42.92	54.00	11.08	236	129	Horizontal

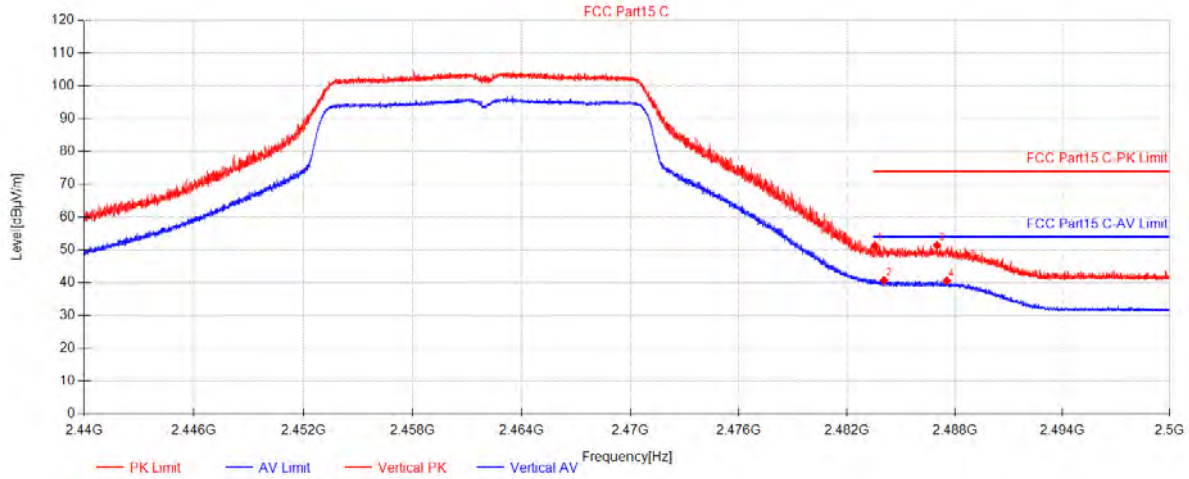


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.545	47.75	3.60	51.35	74.00	22.65	254	107	Vertical
2	2484.055	37.11	3.60	40.71	54.00	13.29	254	107	Vertical
3	2487.0025	47.81	3.62	51.43	74.00	22.57	254	107	Vertical
4	2487.55	36.91	3.62	40.53	54.00	13.47	254	107	Vertical

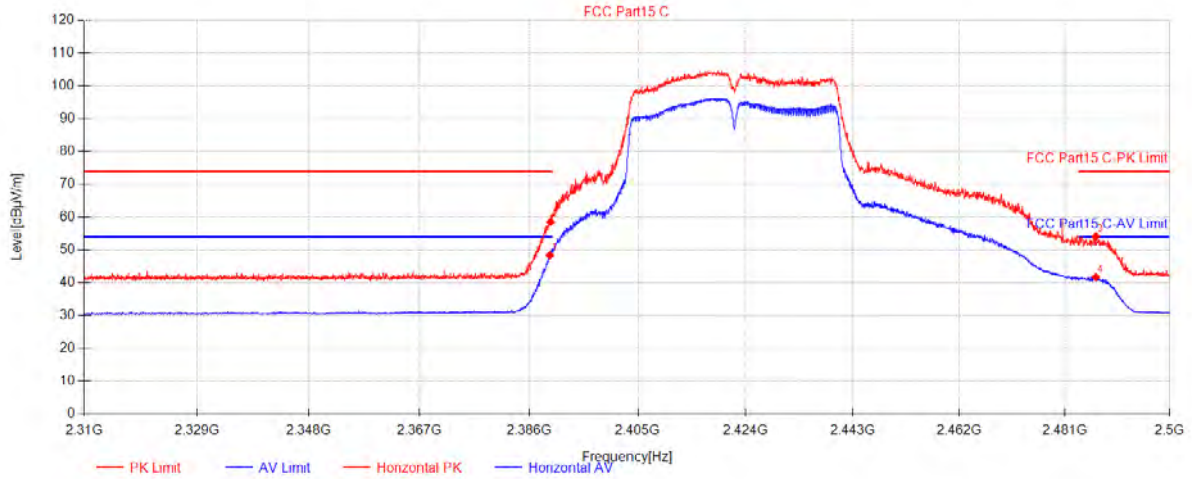


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6467	45.30	3.07	48.37	54.00	5.63	233	124	Horizontal
2	2389.7767	55.49	3.07	58.56	74.00	15.44	233	124	Horizontal
3	2486.56	50.51	3.62	54.13	74.00	19.87	233	124	Horizontal
4	2486.56	38.09	3.62	41.71	54.00	12.29	233	124	Horizontal

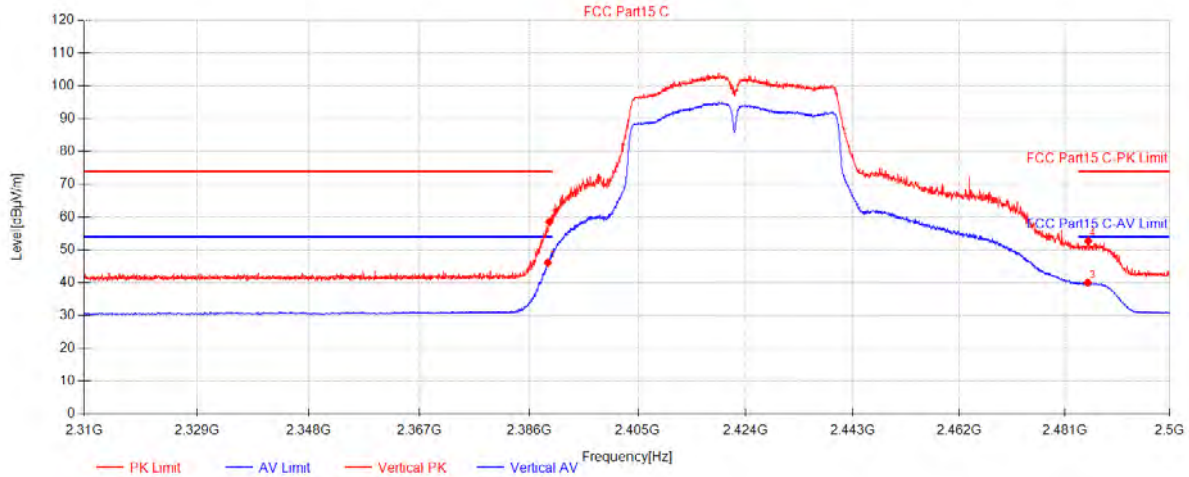


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802.11n40_Channel 03



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3	43.05	3.07	46.12	54.00	7.88	211	72	Vertical
2	2389.56	55.57	3.07	58.64	74.00	15.36	211	72	Vertical
3	2485.06	36.42	3.61	40.03	54.00	13.97	211	72	Vertical
4	2485.18	49.18	3.61	52.79	74.00	21.21	211	72	Vertical

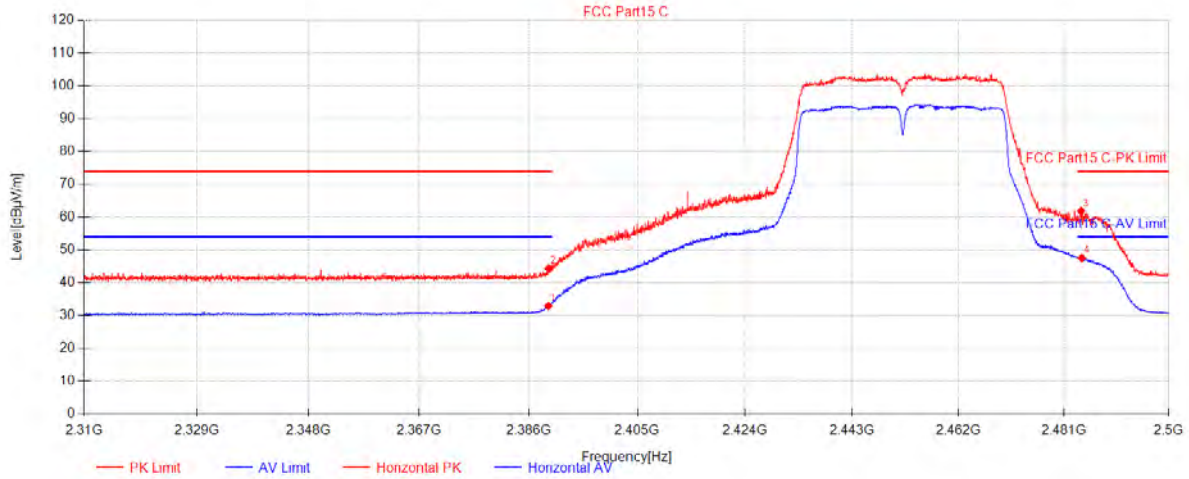


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.4733	29.82	3.07	32.89	54.00	21.11	214	188	Horizontal
2	2389.5167	41.31	3.07	44.38	74.00	29.62	214	188	Horizontal
3	2484.04	58.26	3.60	61.86	74.00	12.14	214	188	Horizontal
4	2484.16	43.92	3.60	47.52	54.00	6.48	214	188	Horizontal

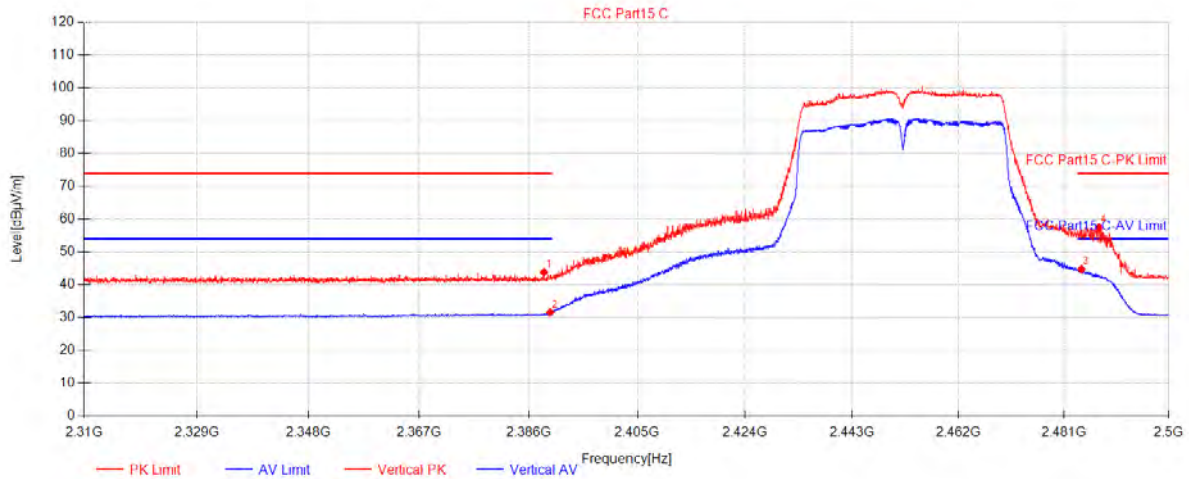


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802.11n40_Channel 09



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6933	40.75	3.07	43.82	74.00	30.18	180	82	Vertical
2	2389.7767	28.46	3.07	31.53	54.00	22.47	180	82	Vertical
3	2484.1	41.13	3.60	44.73	54.00	9.27	180	82	Vertical
4	2487.28	53.94	3.62	57.56	74.00	16.44	180	82	Vertical

The End



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