

Report No.: SEWM2306000197RG03
 Rev.: 01
 Page: 1 of 108

TEST REPORT

Application No.: SEWM2306000197RG
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: Wi-Fi & Bluetooth Module
Model No.: FCS950R
Trade Mark: Quectel
FCC ID: XMR2023FCS950R
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/06/13
Date of Test: 2023/06/13 to 2023/07/12
Date of Issue: 2023/07/13

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:

Well Wei
 Wireless Laboratory Manager



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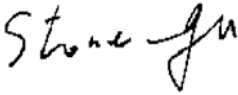
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/07/13		Original

Prepared By		 <hr/> (Yves Cheng) / Test Engineer
Checked By		 <hr/> (Stone Gu) / 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 C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
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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:	Ives 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
--



3.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	FCS950R	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	NA	
SN:	E1N23DT07000059	
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:	Dipole Antenna	
Antenna Gain:	0.73dBi (Ant0)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
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.	



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Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Channel		Frequency for 802.11 b/g/n (HT20)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.3
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

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)	/



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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>The antenna is Dipole Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.73dBi (Ant0). *</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>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.</i></p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 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 C63.10-2020 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>



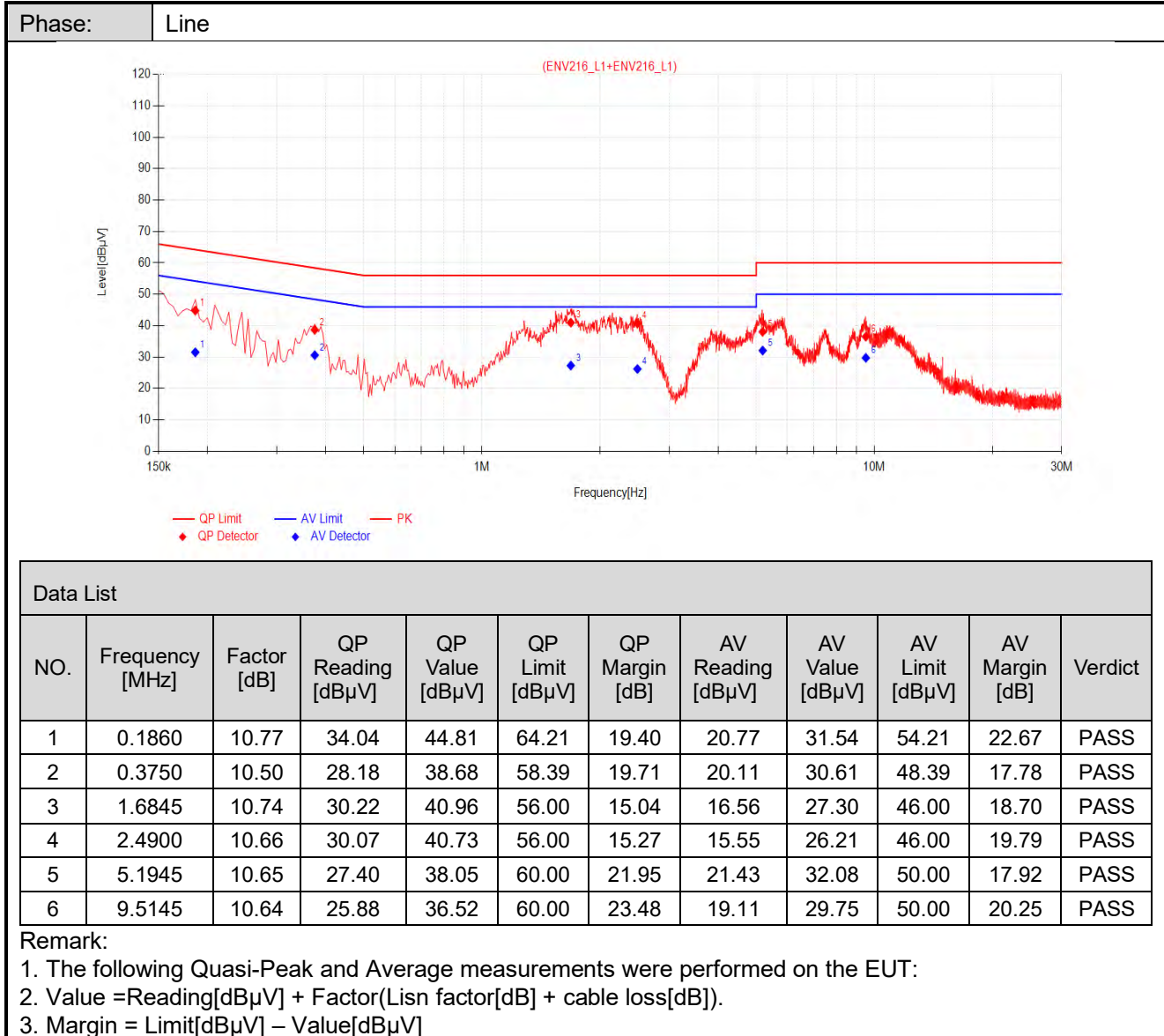
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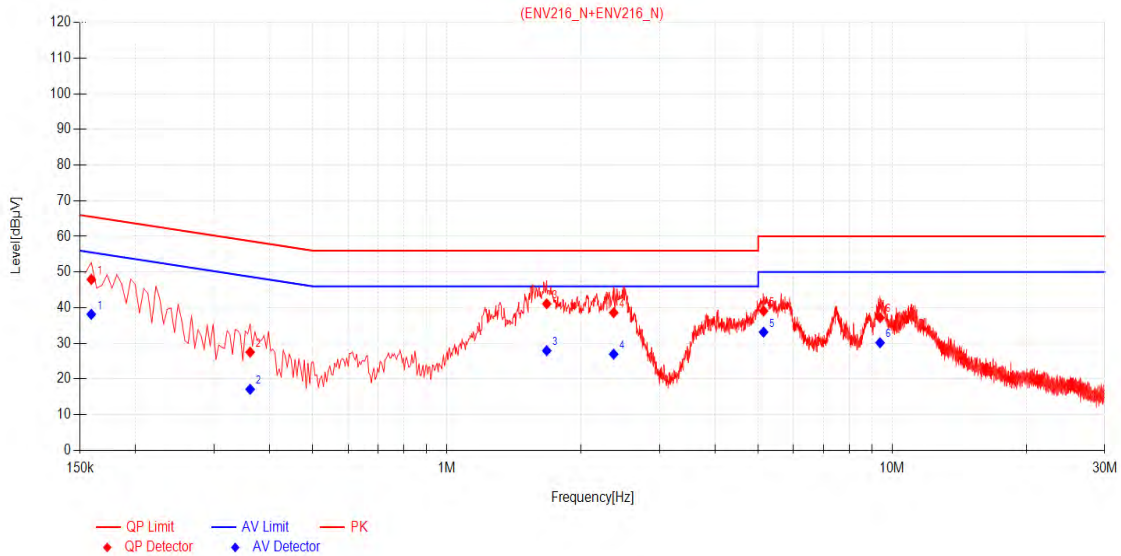
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Measurement Data

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.



Phase: Neutral



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	0.1590	10.72	37.21	47.93	65.52	17.59	27.42	38.14	55.52	17.38	PASS
2	0.3615	10.81	16.72	27.53	58.69	31.16	6.30	17.11	48.69	31.58	PASS
3	1.6755	10.77	30.31	41.08	56.00	14.92	17.17	27.94	46.00	18.06	PASS
4	2.3685	10.77	27.82	38.59	56.00	17.41	16.21	26.98	46.00	19.02	PASS
5	5.1405	10.63	28.46	39.09	60.00	20.91	22.52	33.15	50.00	16.85	PASS
6	9.3885	10.64	26.55	37.19	60.00	22.81	19.53	30.17	50.00	19.83	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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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 C63.10-2020 Section 11.9.1.2
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	



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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 C63.10-2020 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	



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 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	



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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 C63.10-2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
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:

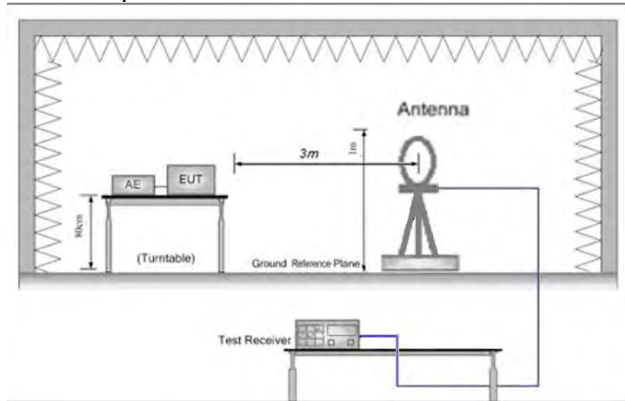


Figure 1. Below 30MHz

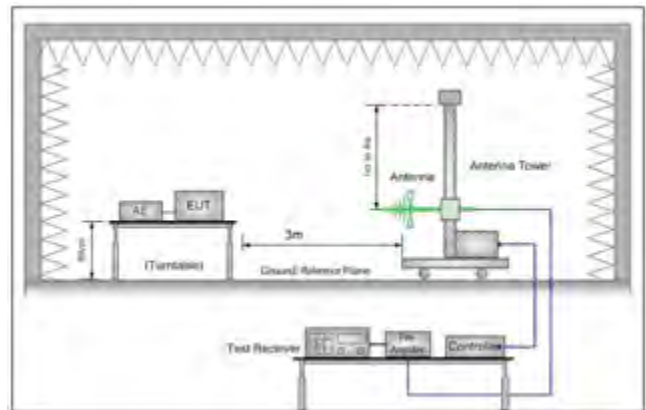


Figure 2. 30MHz to 1GHz

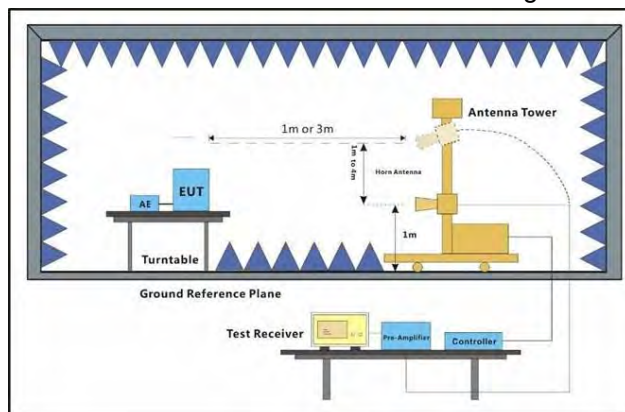


Figure 3. Above 1 GHz

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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified 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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • 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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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 C63.10-2020 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:

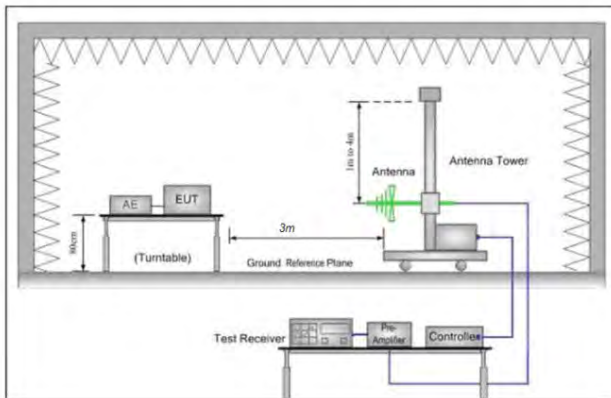


Figure 1. 30MHz to 1GHz

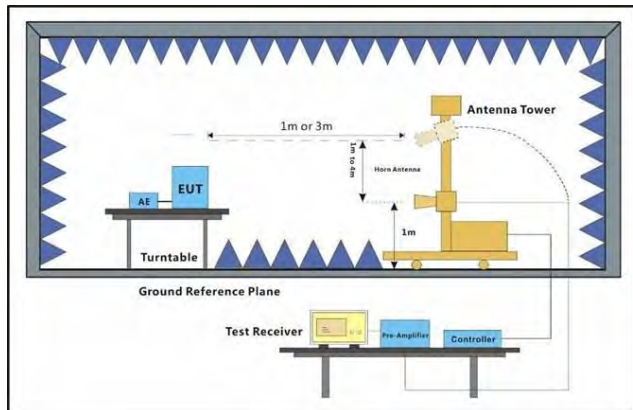


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 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. 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 Test the EUT in the lowest channel , the Highest channel 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. 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 = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum 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>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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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 to 30MHz)
		± 4.88dB (30M to 1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05

Conduction Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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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	10.16	2406.92	2417.08	≥0.5	PASS
11b	Ant0	2437	10.16	2431.92	2442.08	≥0.5	PASS
11b	Ant0	2462	10.12	2456.92	2467.04	≥0.5	PASS
11g	Ant0	2412	16.40	2403.80	2420.20	≥0.5	PASS
11g	Ant0	2437	16.40	2428.80	2445.20	≥0.5	PASS
11g	Ant0	2462	16.40	2453.80	2470.20	≥0.5	PASS
11n20SISO	Ant0	2412	17.32	2403.48	2420.80	≥0.5	PASS
11n20SISO	Ant0	2437	17.04	2428.48	2445.52	≥0.5	PASS
11n20SISO	Ant0	2462	17.08	2453.48	2470.56	≥0.5	PASS
11n40SISO	Ant0	2422	35.60	2404.00	2439.60	≥0.5	PASS
11n40SISO	Ant0	2437	36.00	2419.00	2455.00	≥0.5	PASS
11n40SISO	Ant0	2452	35.84	2434.00	2469.84	≥0.5	PASS



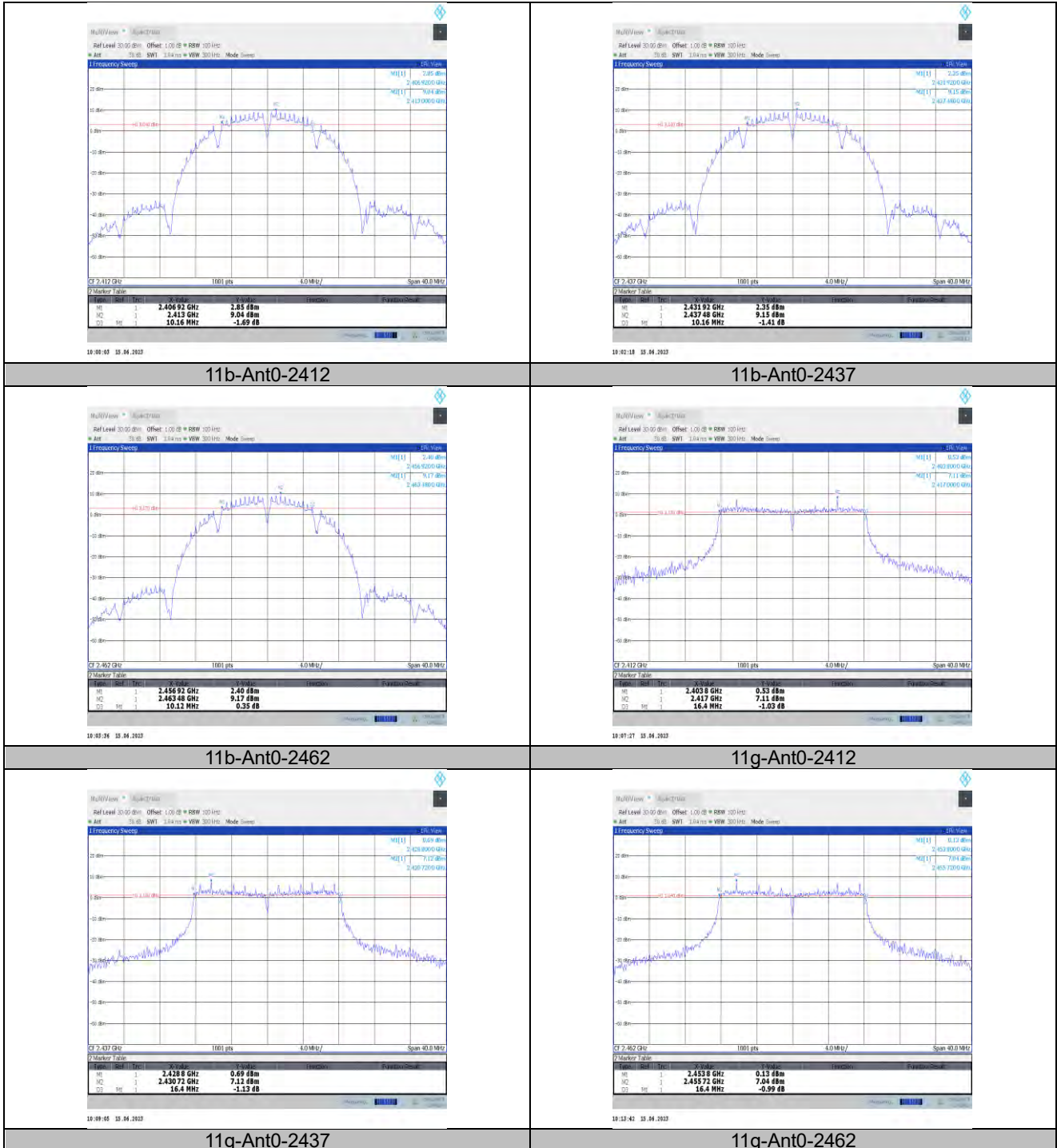
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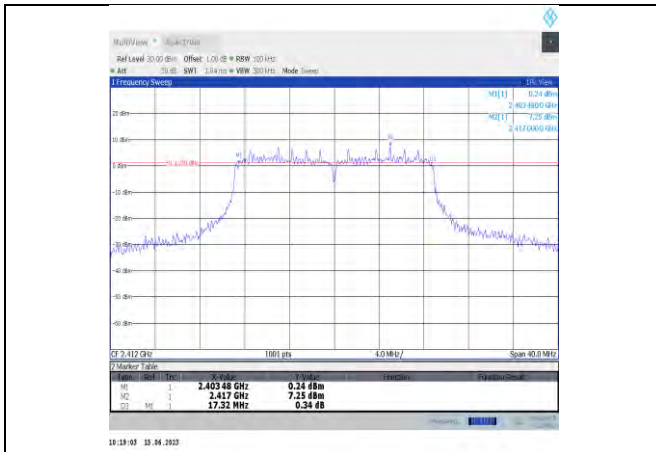
Test Graphs



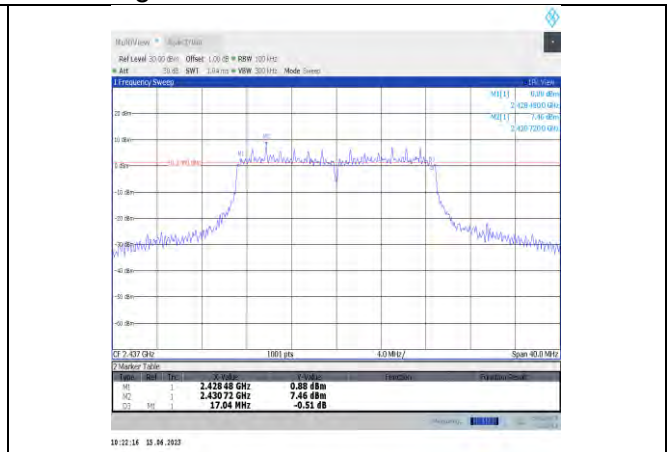
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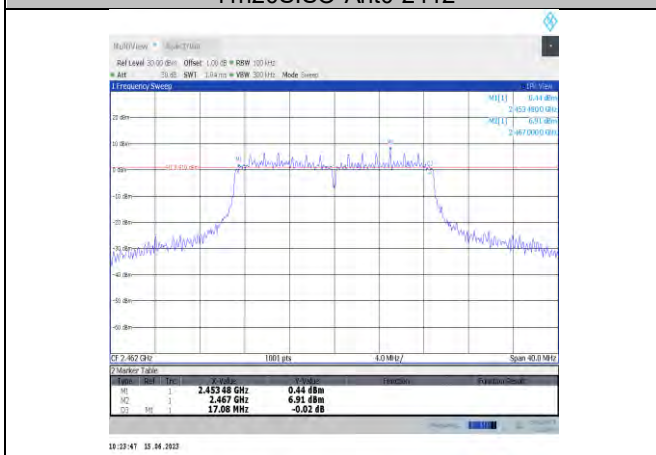
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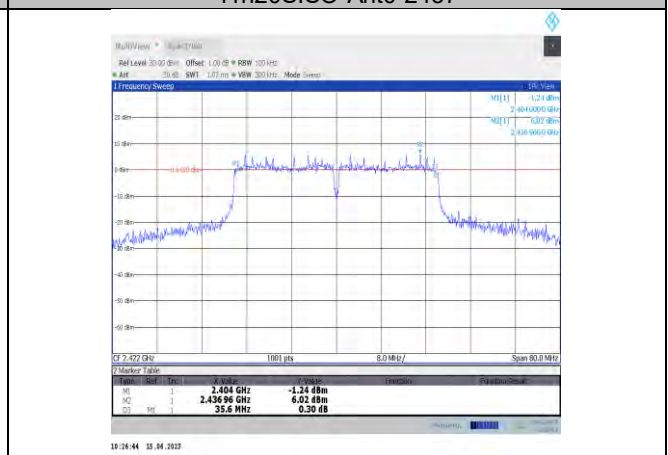
11n20SISO-Ant0-2412



11n20SISO-Ant0-2437



11n20SISO-Ant0-2462



11n40SISO-Ant0-2422



11n40SISO-Ant0-2437



11n40SISO-Ant0-2452



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant0	2412	15.058	2404.4079	2419.4664	For Report Purpose
11b	Ant0	2437	15.055	2429.4053	2444.4605	
11b	Ant0	2462	15.053	2454.4004	2469.4539	
11g	Ant0	2412	17.274	2403.3535	2420.6272	
11g	Ant0	2437	17.282	2428.4137	2445.6960	
11g	Ant0	2462	17.32	2453.3167	2470.6363	
11n20SISO	Ant0	2412	18.083	2402.9425	2421.0252	
11n20SISO	Ant0	2437	18.049	2427.9360	2445.9853	
11n20SISO	Ant0	2462	18.131	2452.9381	2471.0695	
11n40SISO	Ant0	2422	37.652	2403.2281	2440.8801	
11n40SISO	Ant0	2437	37.021	2418.5770	2455.5981	
11n40SISO	Ant0	2452	37.087	2433.3933	2470.4808	



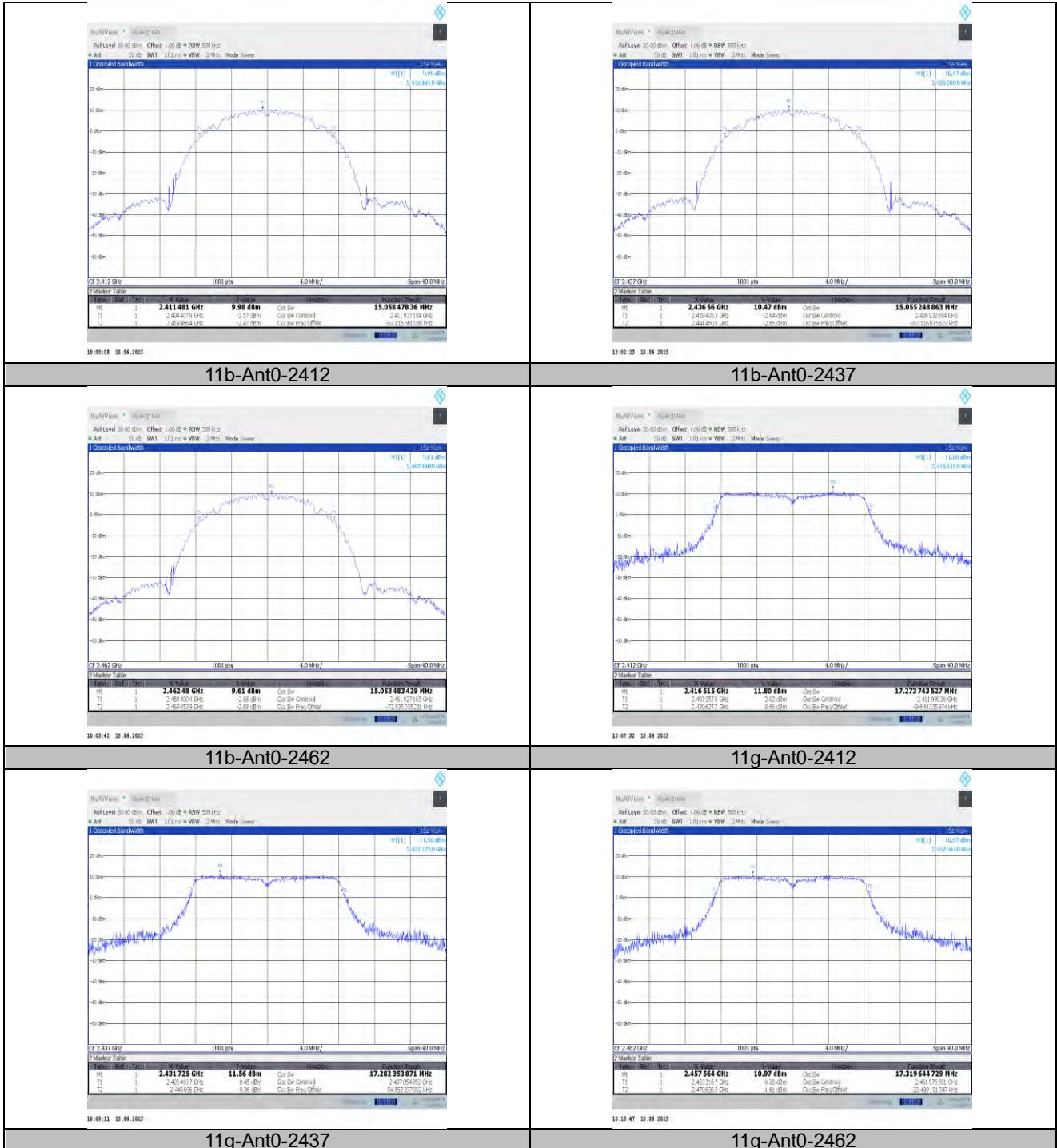
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Test Graphs



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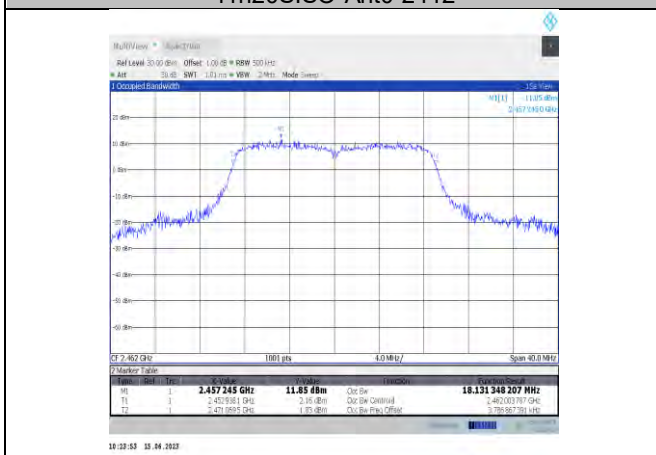
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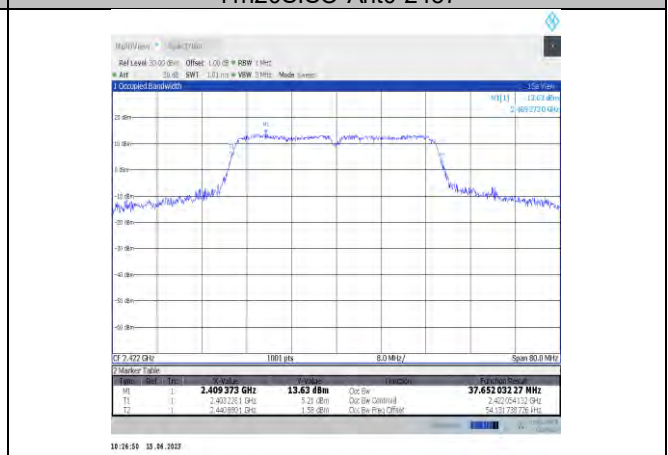
11n20SISO-Ant0-2412



11n20SISO-Ant0-2437



11n20SISO-Ant0-2462



11n40SISO-Ant0-2422



11n40SISO-Ant0-2437



11n40SISO-Ant0-2452



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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	22.08	≤30.00	PASS
11b	Ant0	2437	22.25	≤30.00	PASS
11b	Ant0	2462	21.83	≤30.00	PASS
11g	Ant0	2412	23.32	≤30.00	PASS
11g	Ant0	2437	23.06	≤30.00	PASS
11g	Ant0	2462	23.11	≤30.00	PASS
11n20SISO	Ant0	2412	22.98	≤30.00	PASS
11n20SISO	Ant0	2437	23.12	≤30.00	PASS
11n20SISO	Ant0	2462	22.87	≤30.00	PASS
11n40SISO	Ant0	2422	22.42	≤30.00	PASS
11n40SISO	Ant0	2437	22.32	≤30.00	PASS
11n40SISO	Ant0	2452	22.28	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant0	2412	-4.5	≤8.00	PASS
11b	Ant0	2437	-4.79	≤8.00	PASS
11b	Ant0	2462	-4.58	≤8.00	PASS
11g	Ant0	2412	-6.25	≤8.00	PASS
11g	Ant0	2437	-7.51	≤8.00	PASS
11g	Ant0	2462	-6.96	≤8.00	PASS
11n20SISO	Ant0	2412	-7.24	≤8.00	PASS
11n20SISO	Ant0	2437	-6.57	≤8.00	PASS
11n20SISO	Ant0	2462	-7.78	≤8.00	PASS
11n40SISO	Ant0	2422	-8.58	≤8.00	PASS
11n40SISO	Ant0	2437	-9.46	≤8.00	PASS
11n40SISO	Ant0	2452	-10.53	≤8.00	PASS

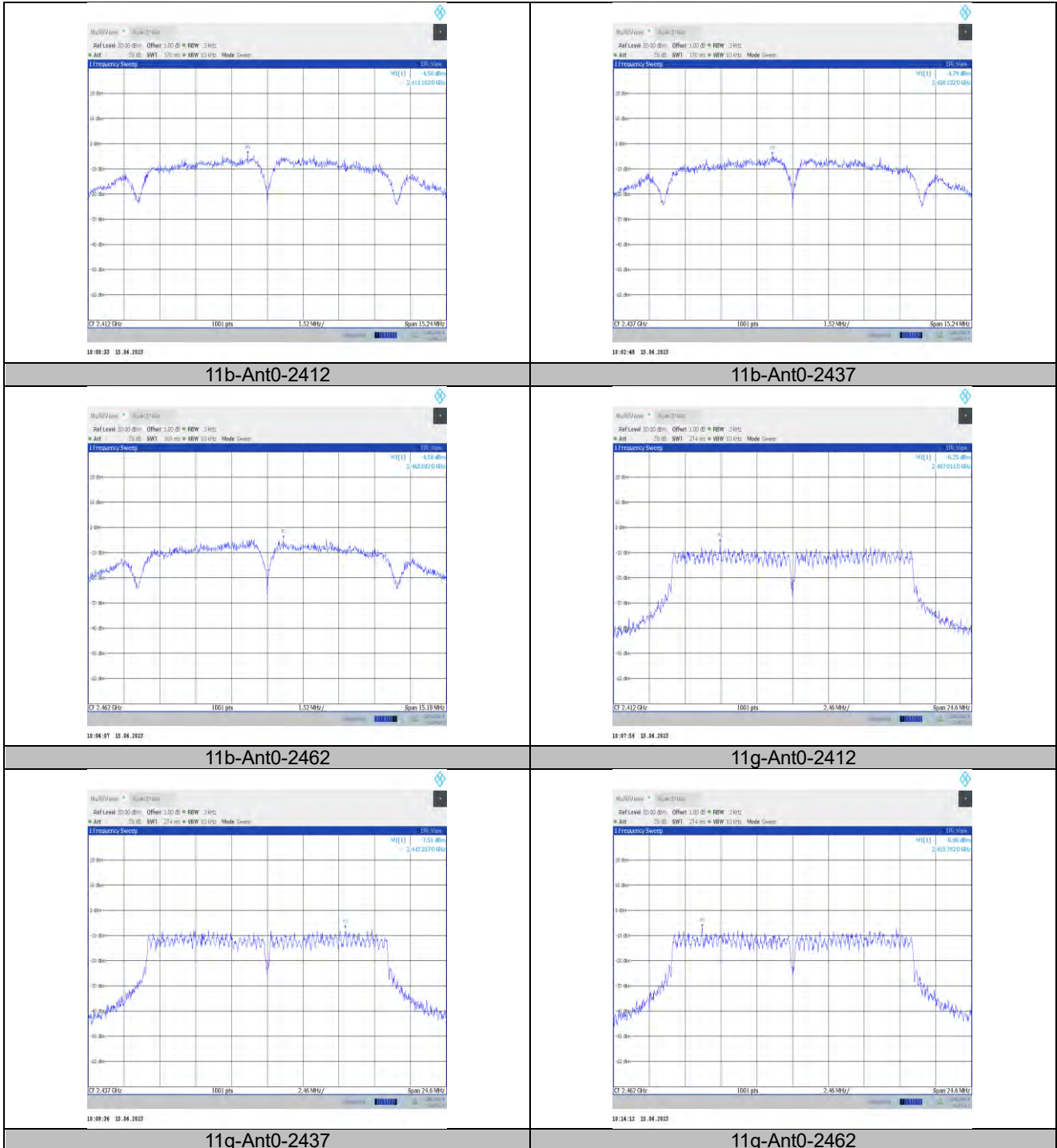


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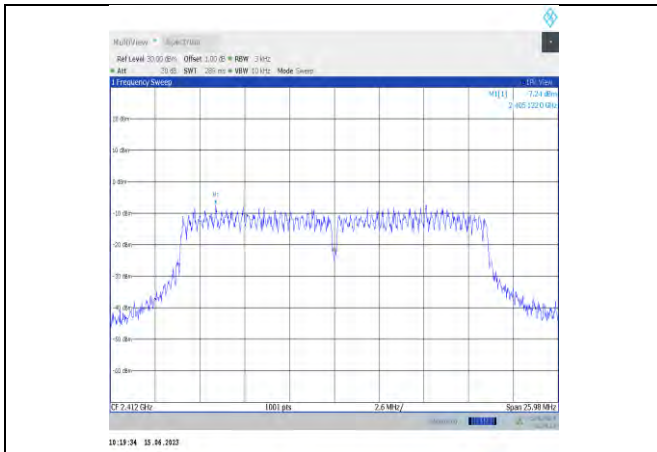
Test Graphs



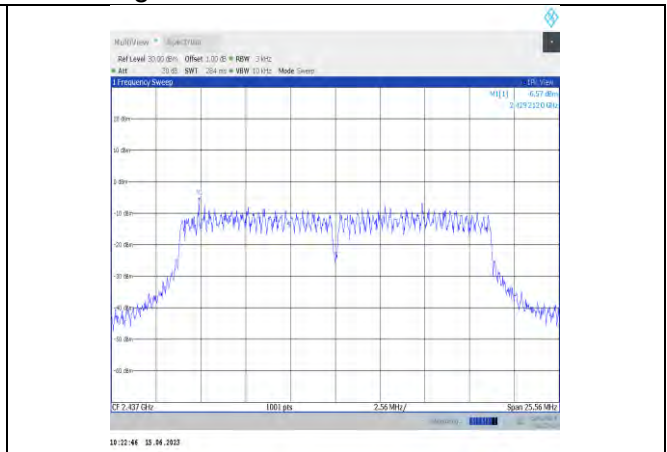
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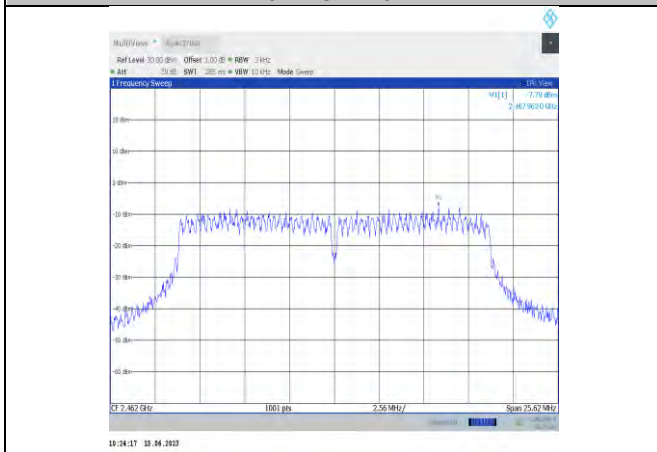
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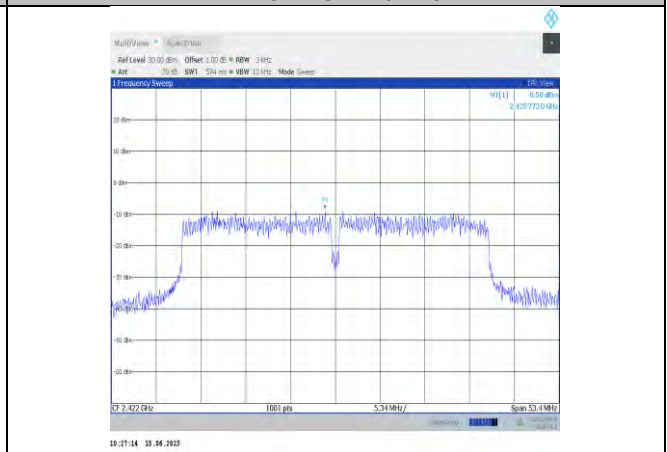
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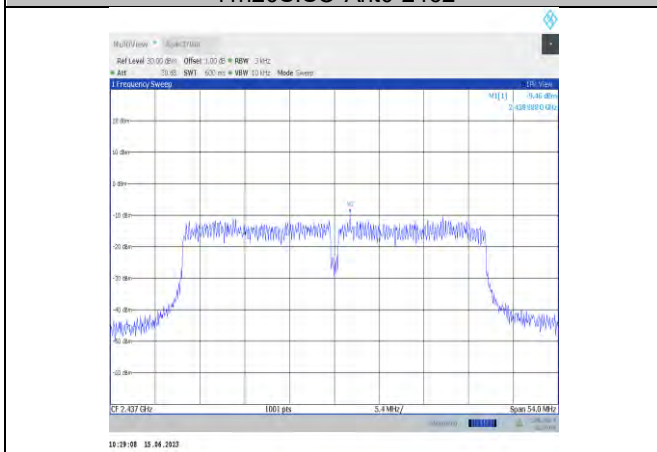
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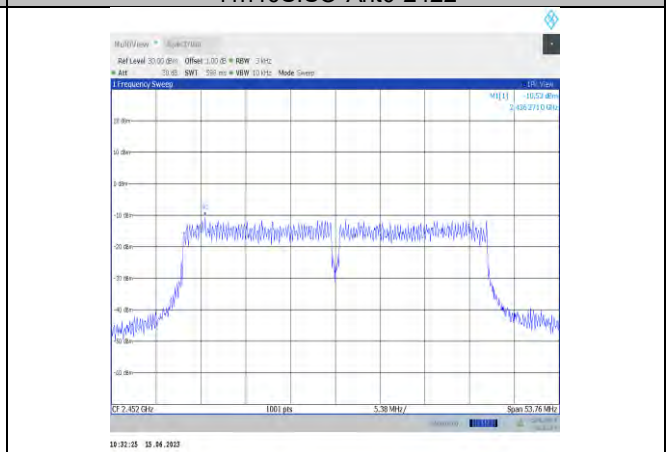
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11n40SISO-Ant0-2422



11n40SISO-Ant0-2437



11n40SISO-Ant0-2452

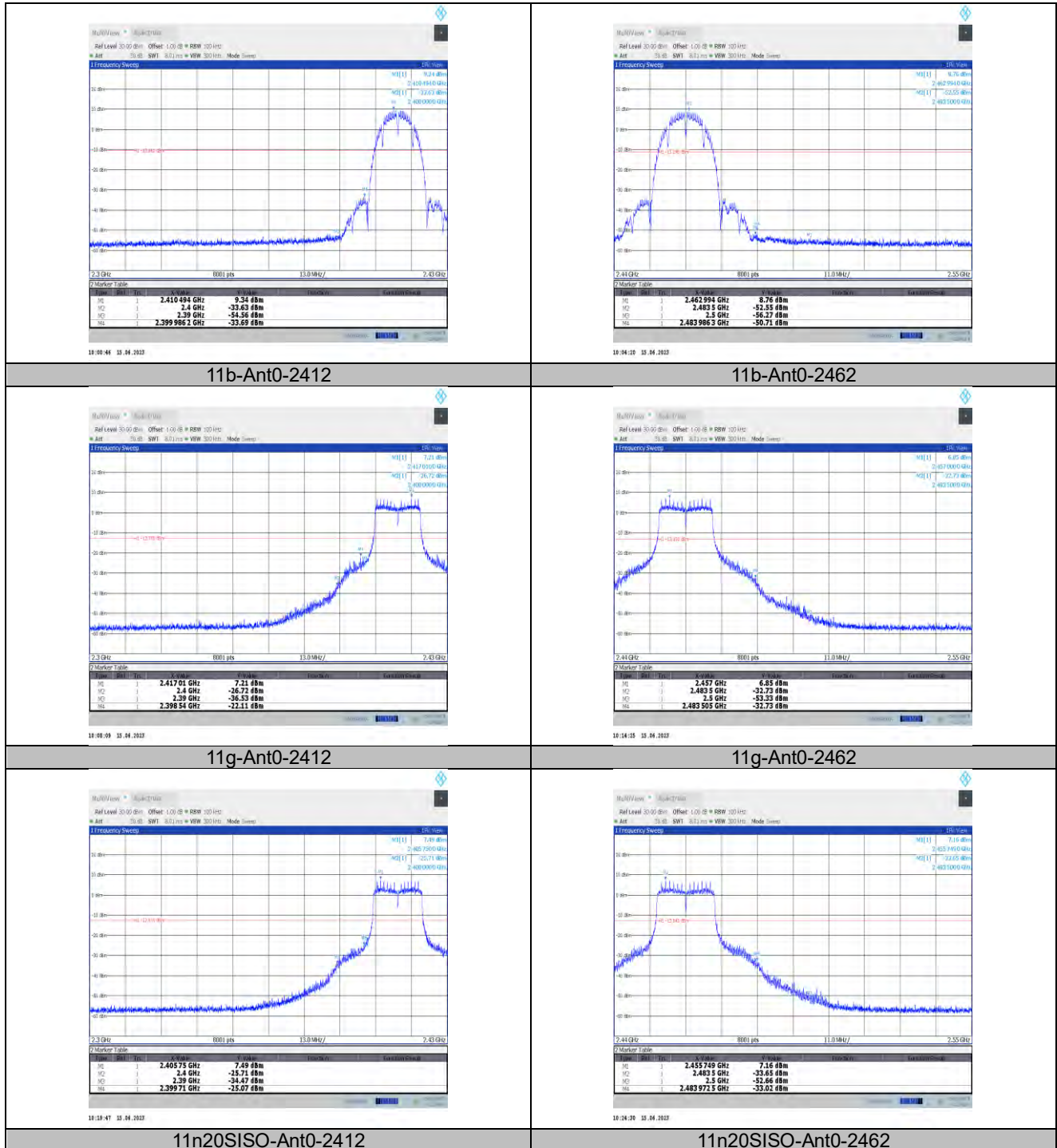


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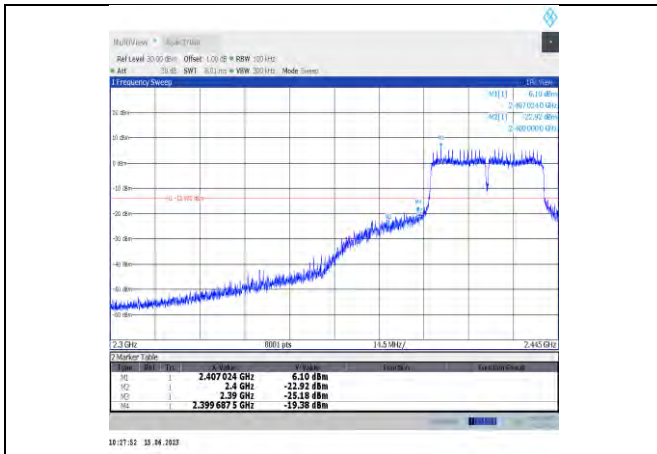
Band edge measurements Test Graphs



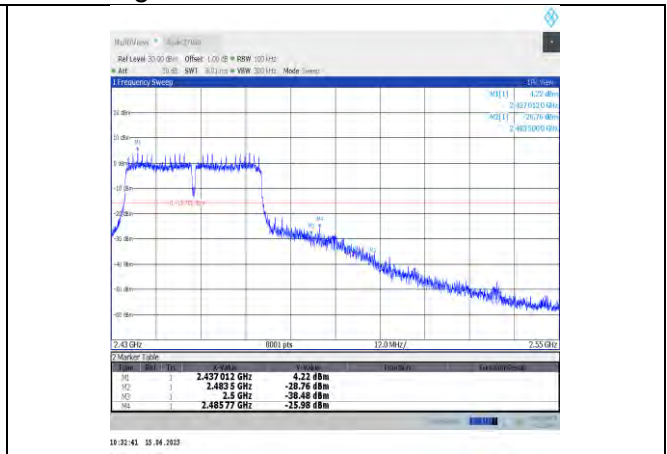
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11n40SISO-Ant0-2422



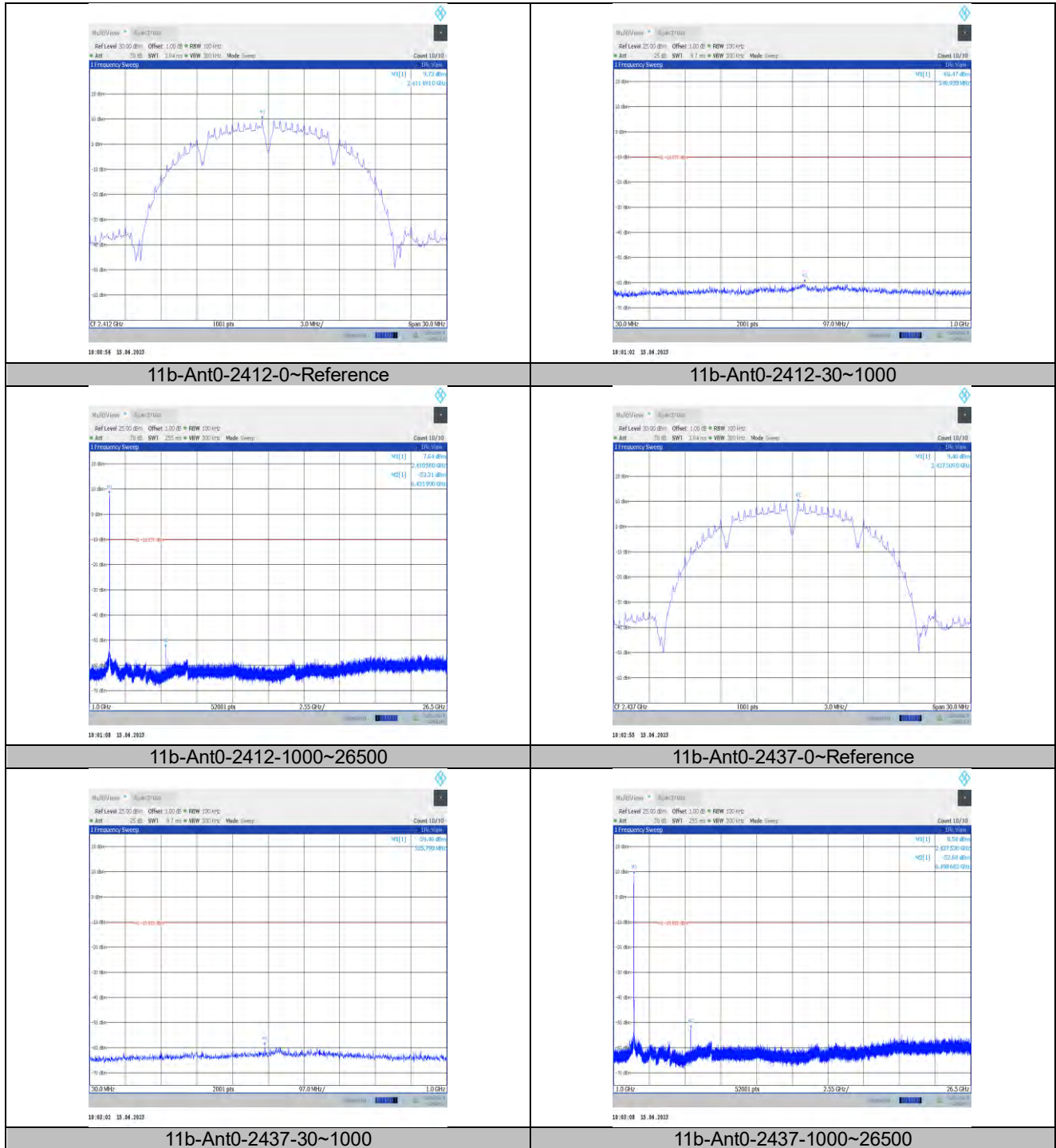
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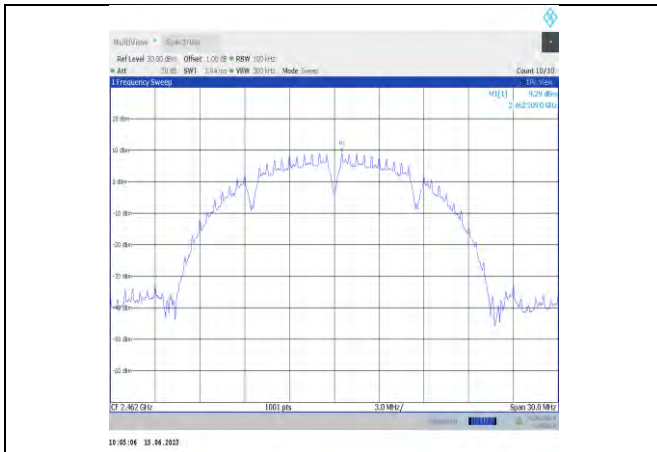
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Conducted Spurious Emission Test Graphs

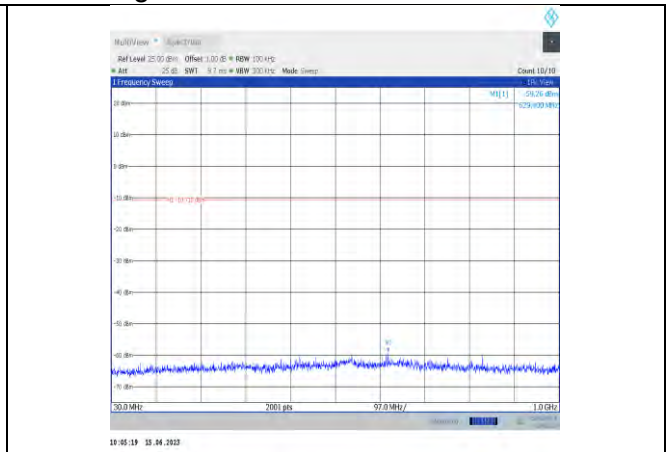


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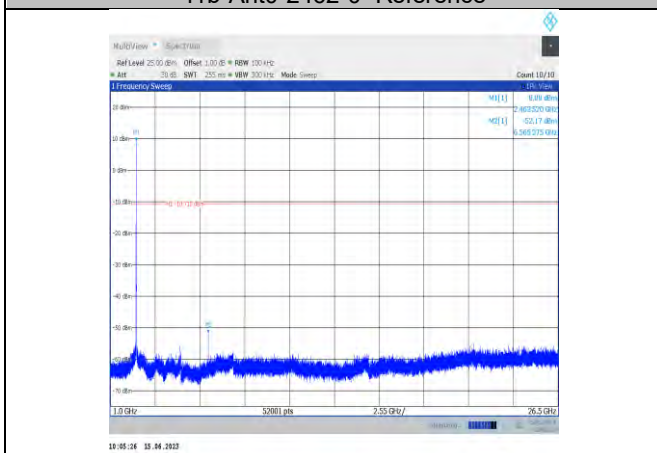
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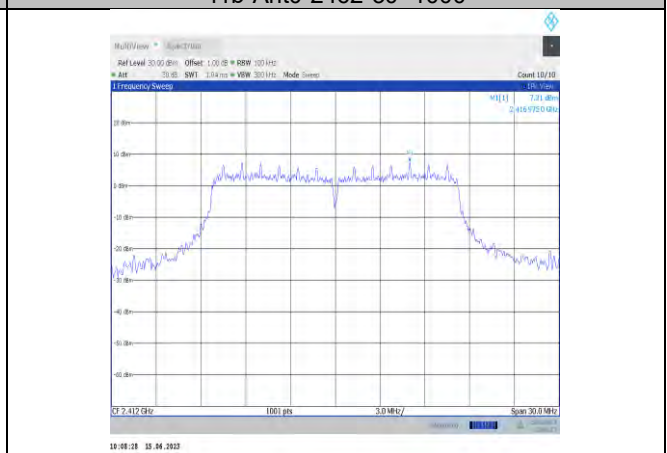
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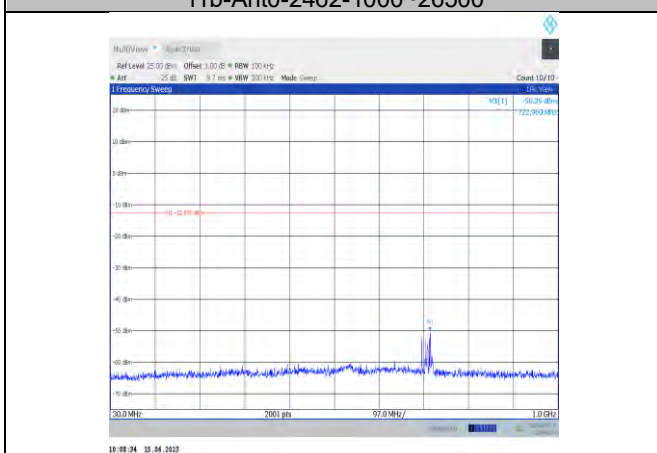
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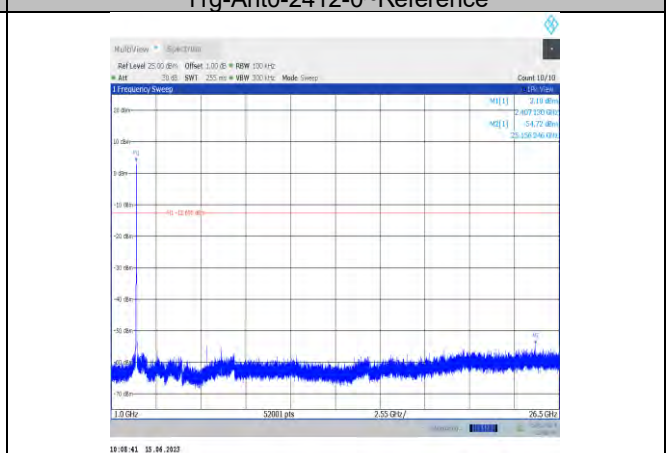
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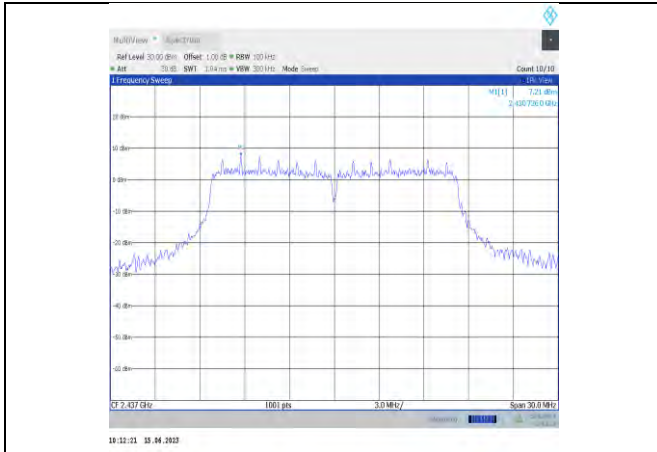


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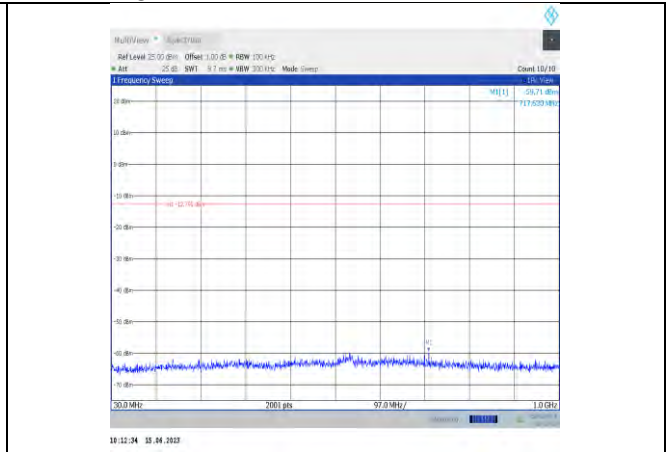


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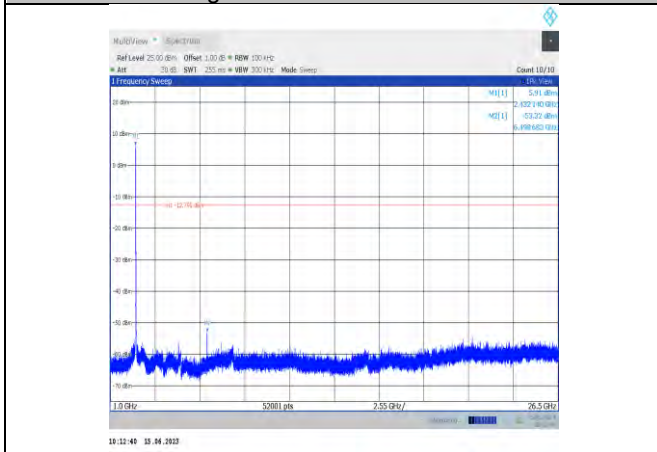
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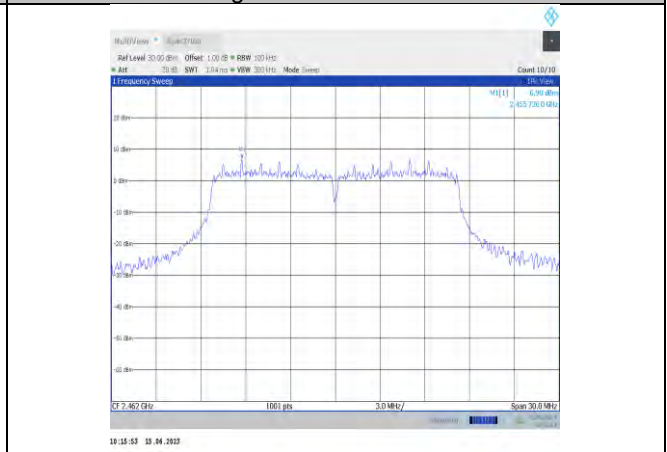
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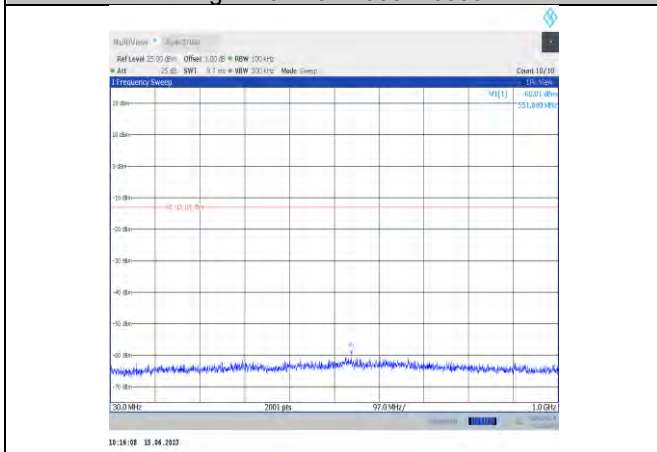
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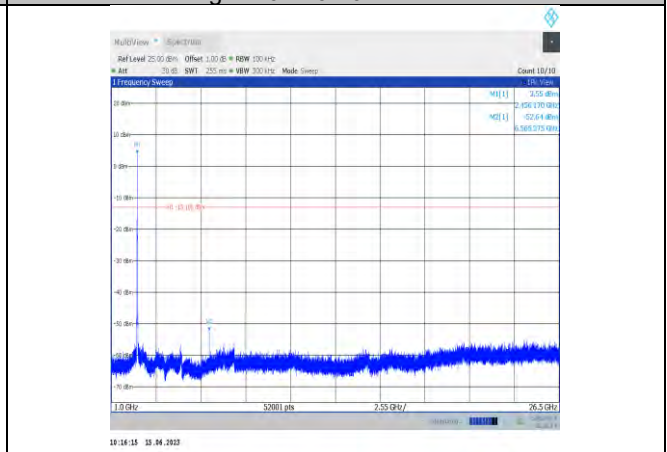
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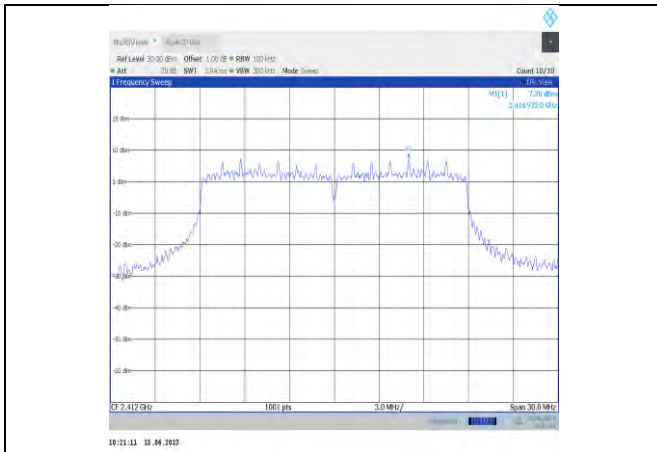


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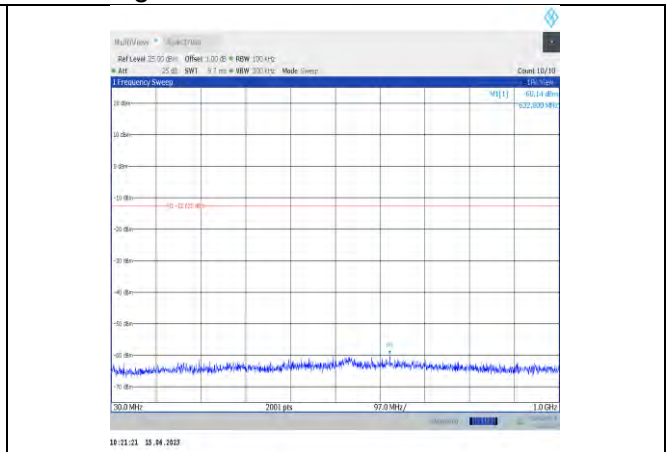


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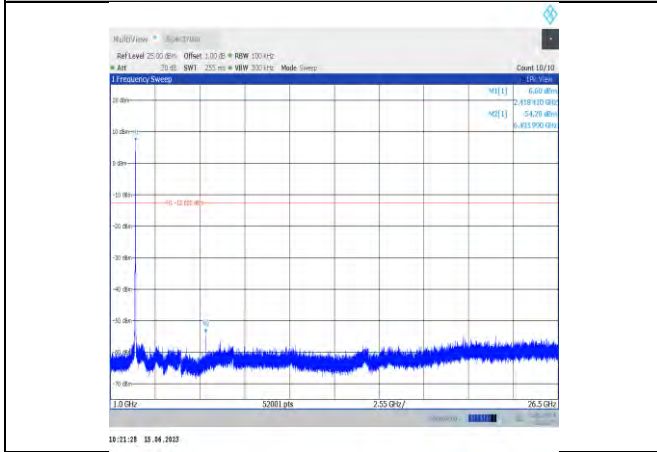
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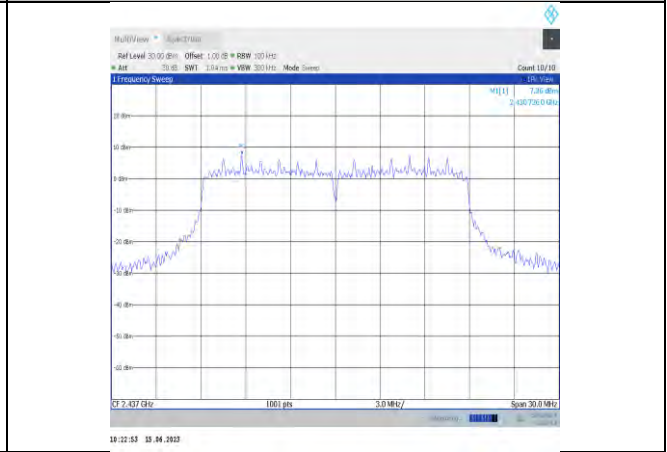
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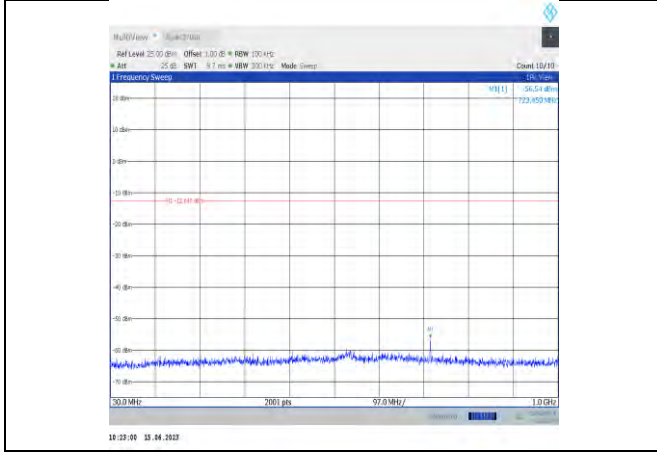
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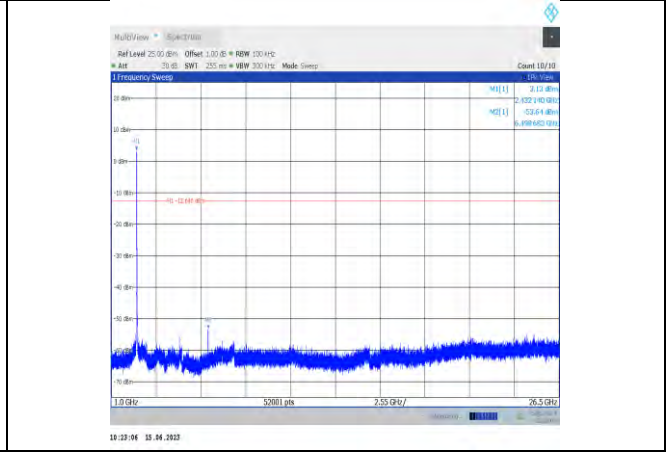
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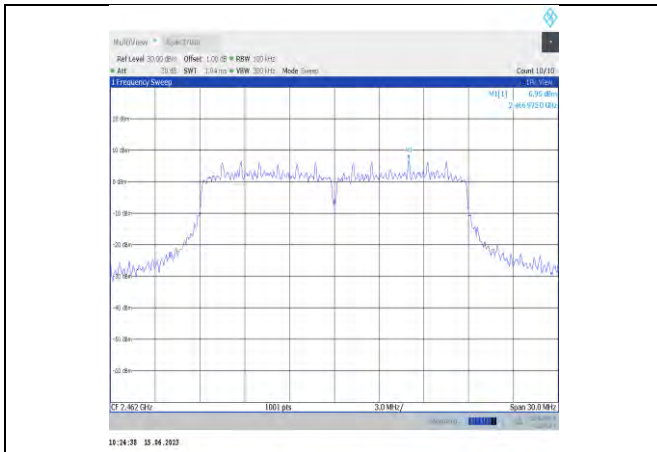


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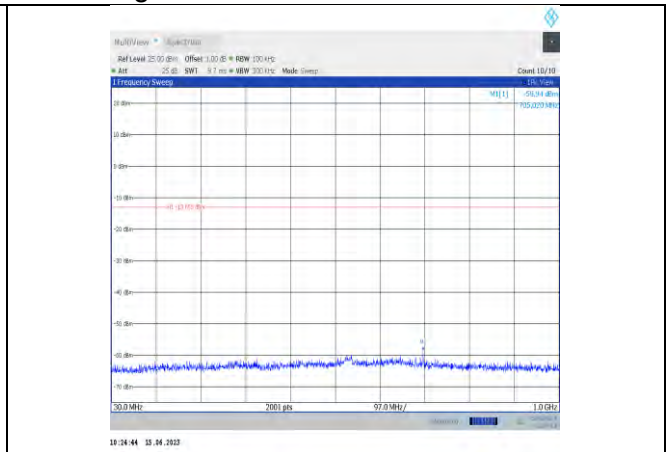


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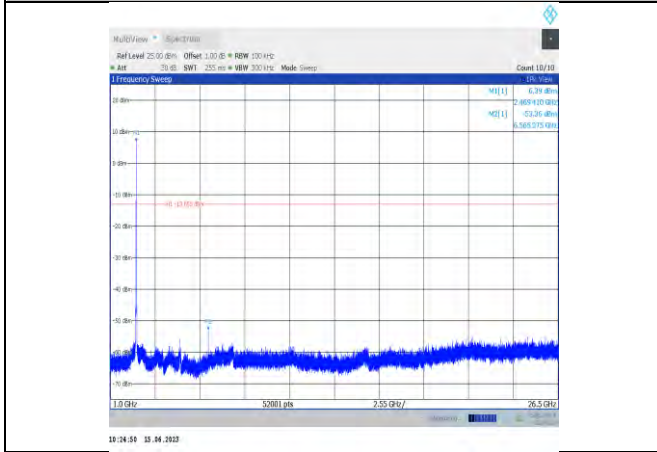
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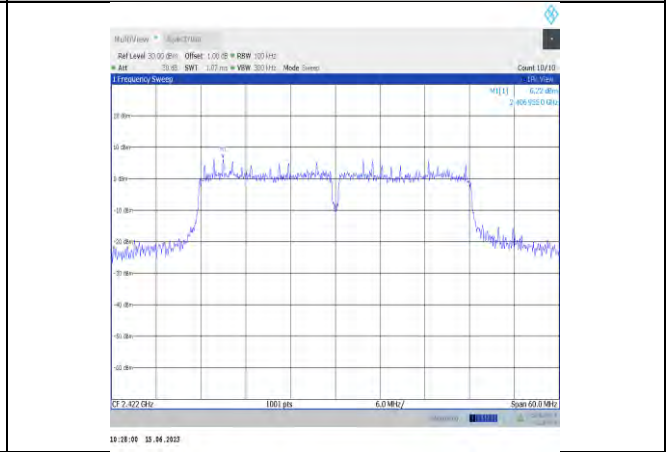
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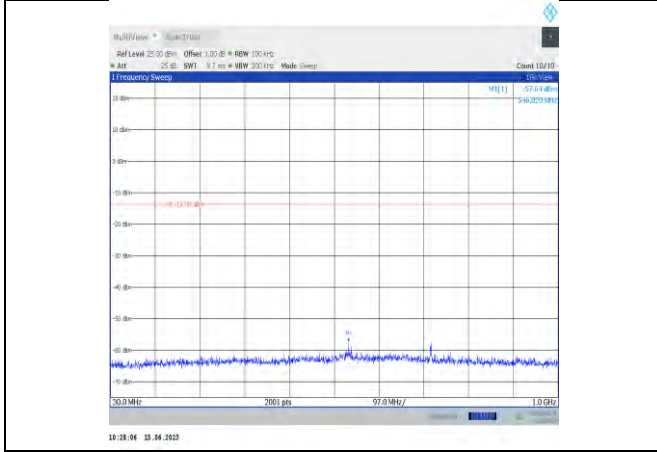
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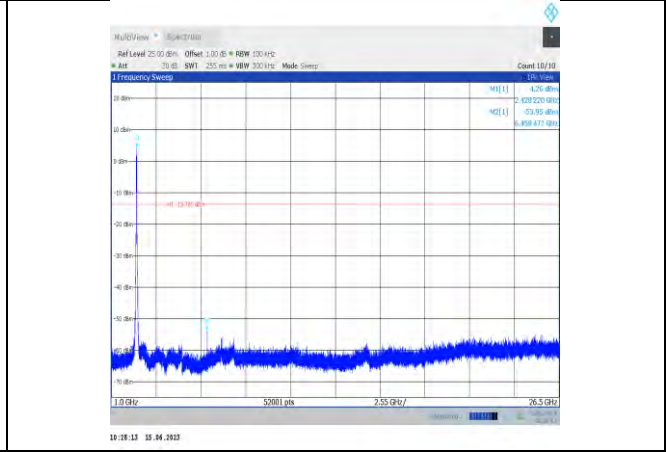
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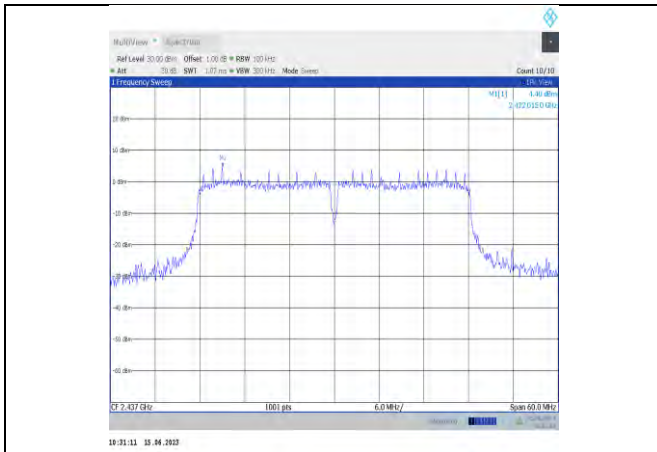


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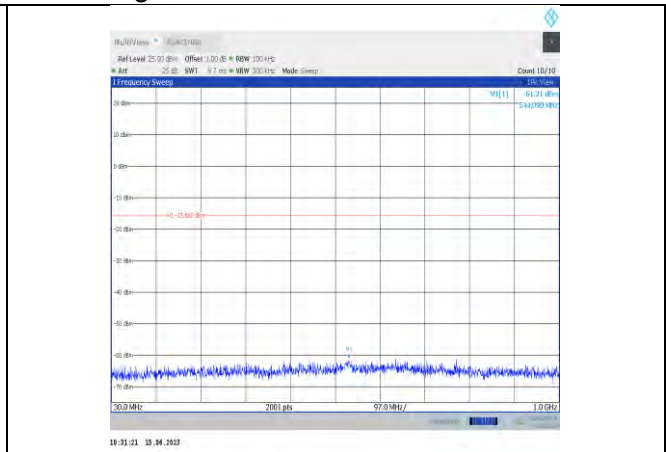


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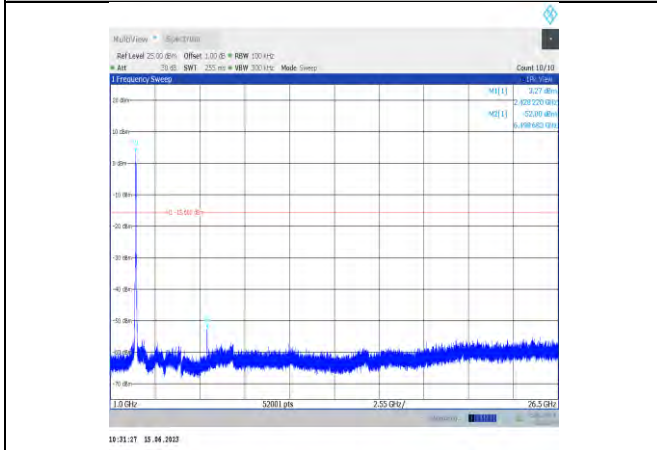
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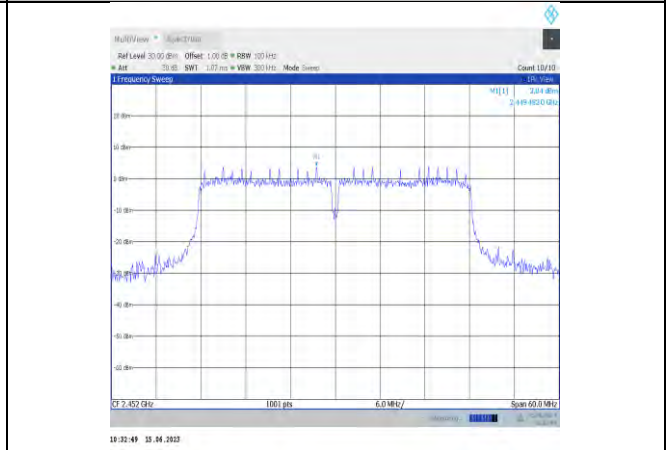
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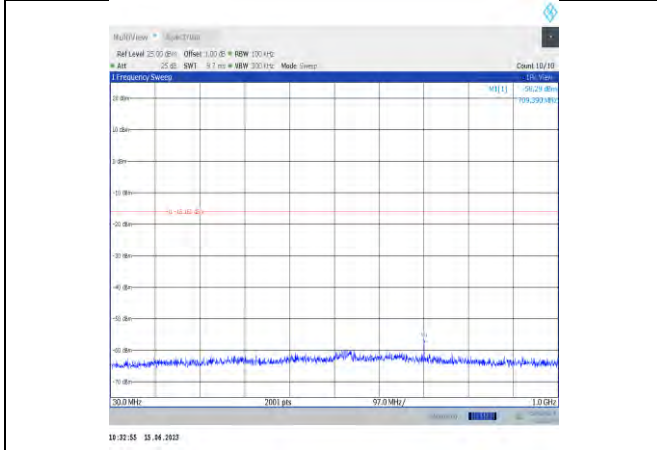
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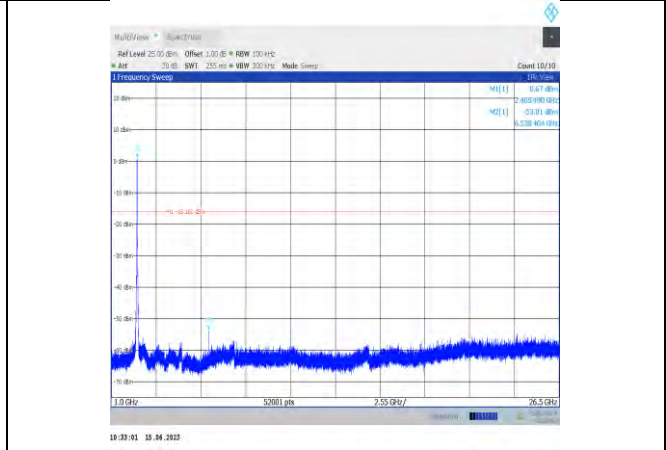
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11n40SISO-Ant0-2452-0~Reference



11n40SISO-Ant0-2452-30~1000



11n40SISO-Ant0-2452-1000~26500



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant0	2412	12.42	12.60	98.57	0.06
11g	Ant0	2412	2.06	2.20	93.64	0.29
11n20SISO	Ant0	2412	0.98	1.14	85.96	0.66
11n40SISO	Ant0	2422	0.94	1.12	83.93	0.76

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	12.42	12.60	98.57	0.08051	10Hz*
11g	2.06	2.20	93.64	0.48544	0.51KHz
11n20SISO	0.98	1.14	85.96	1.02041	1.1KHz
11n40SISO	0.94	1.12	83.93	1.06383	1.2KHz

*Duty cycle > 98% VBW setting=10Hz



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Test Graphs

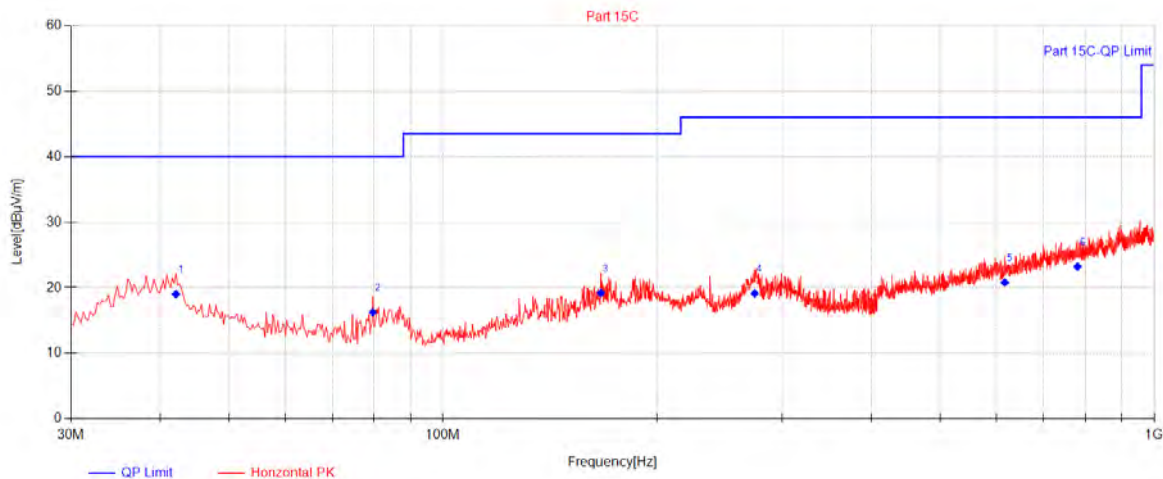


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Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode: 802.11n20_Channel 11



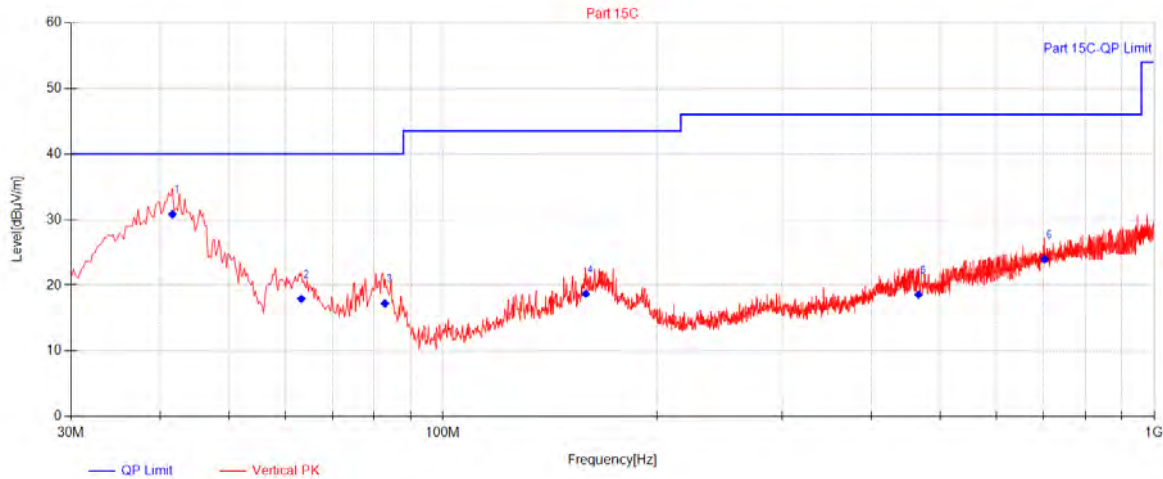
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.125	41.39	-36.24	13.89	19.04	40.00	20.96	189	182	Horizontal
2	79.7125	42.58	-35.66	9.33	16.26	40.00	23.74	261	171	Horizontal
3	166.77	40.08	-35.20	14.32	19.20	43.50	24.30	154	212	Horizontal
4	274.44	41.26	-34.29	12.17	19.14	46.00	26.86	219	191	Horizontal
5	616.85	34.53	-32.27	18.54	20.81	46.00	25.19	125	360	Horizontal
6	780.5375	34.07	-31.37	20.53	23.23	46.00	22.77	168	242	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.64	53.11	-36.25	13.93	30.79	40.00	9.21	112	178	Vertical
2	63.2225	42.24	-36.44	12.13	17.93	40.00	22.07	196	46	Vertical
3	82.865	43.75	-35.86	9.33	17.22	40.00	22.78	154	240	Vertical
4	158.7675	39.91	-35.31	14.10	18.70	43.50	24.80	231	0	Vertical
5	466.5	35.63	-33.21	16.15	18.57	46.00	27.43	157	320	Vertical
6	701.24	35.91	-31.59	19.66	23.97	46.00	22.03	182	128	Vertical

Remark:

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

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB});$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$

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

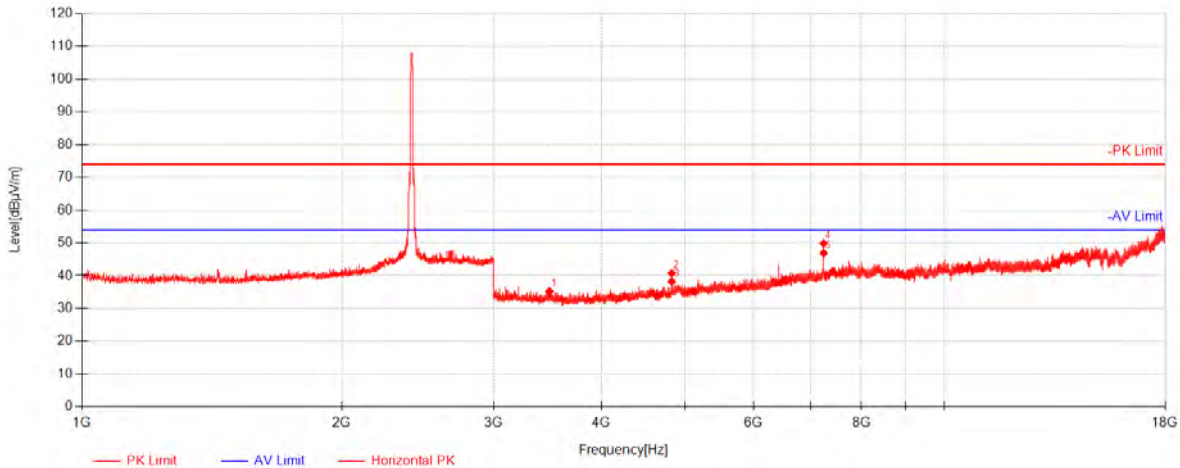


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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3481.5	52.87	28.59	-46.26	35.20	74.00	38.80	248	280	Horizontal
2	4824.0000	55.29	31.01	-45.54	40.77	74.00	33.23	145	28	Horizontal
3	4824.5	52.75	31.01	-45.54	38.23	54.00	15.77	100	28	Horizontal
4	7236.0000	57.52	35.86	-43.54	49.84	74.00	24.16	232	82	Horizontal
5	7237.5	54.61	35.87	-43.54	46.93	54.00	7.07	187	29	Horizontal

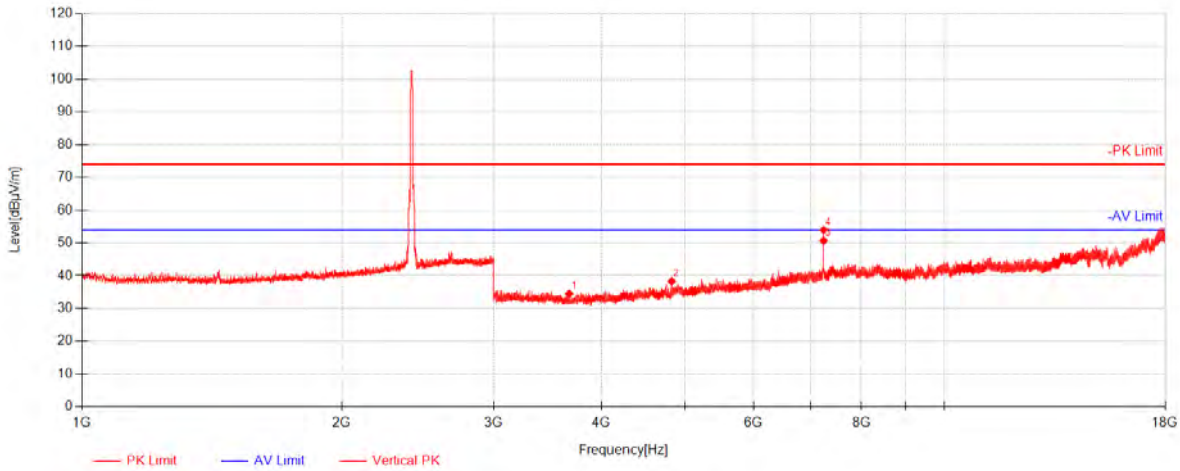


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802.11b_Channel 01



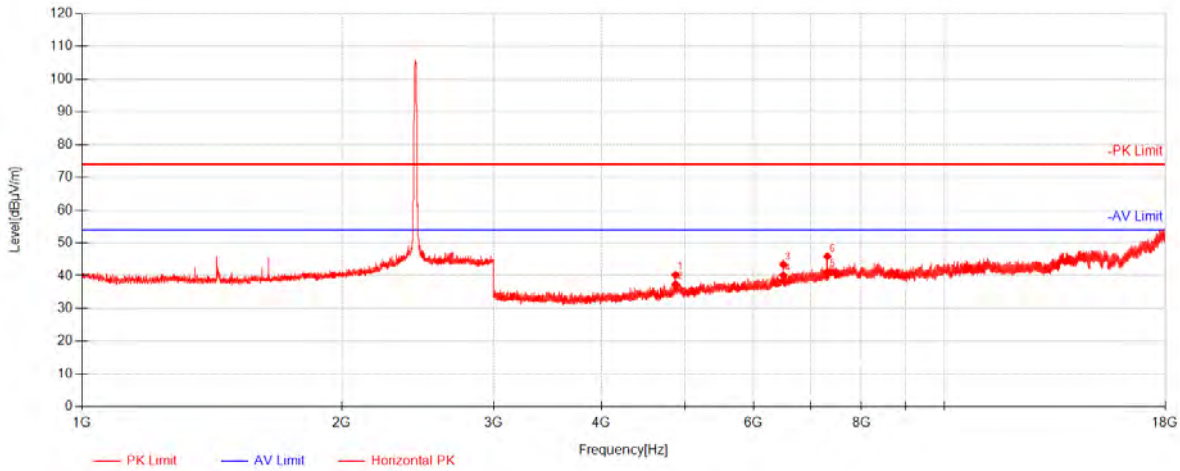
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3669.5	51.42	28.77	-45.69	34.50	74.00	39.50	241	225	Vertical
2	4824.0000	52.81	31.01	-45.54	38.29	74.00	35.71	263	28	Vertical
3	7235.5	58.36	35.86	-43.54	50.68	54.00	3.32	187	249	Vertical
4	7236.0000	61.64	35.86	-43.54	53.96	74.00	20.04	255	277	Vertical



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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	54.66	31.12	-45.53	40.25	74.00	33.75	145	138	Horizontal
2	4874.5	51.83	31.12	-45.53	37.42	54.00	16.58	126	52	Horizontal
3	6499	53.72	34.30	-44.61	43.41	74.00	30.59	174	0	Horizontal
4	6499	50.43	34.30	-44.61	40.12	54.00	13.88	258	356	Horizontal
5	7310.5	48.86	36.07	-43.71	41.22	54.00	12.78	185	25	Horizontal
6	7311	53.57	36.07	-43.71	45.93	74.00	28.07	169	195	Horizontal

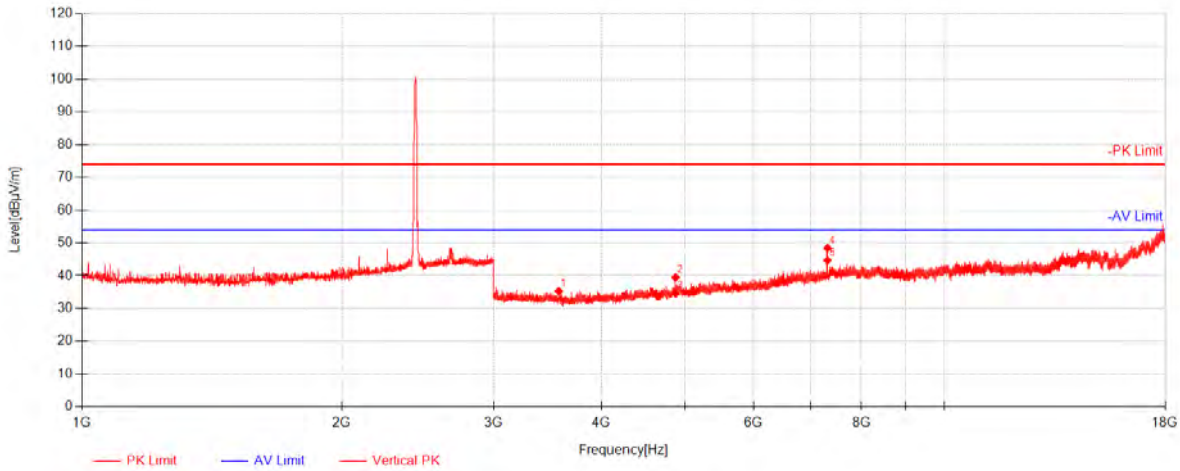


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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3569	52.75	28.67	-46.17	35.25	74.00	38.75	248	0	Vertical
2	4874	53.86	31.12	-45.53	39.45	74.00	34.55	175	52	Vertical
3	4874.5	48.97	31.12	-45.53	34.56	54.00	19.44	146	80	Vertical
4	7311	56.08	36.07	-43.71	48.44	74.00	25.56	165	249	Vertical
5	7312.5	52.31	36.08	-43.71	44.68	54.00	9.32	136	109	Vertical

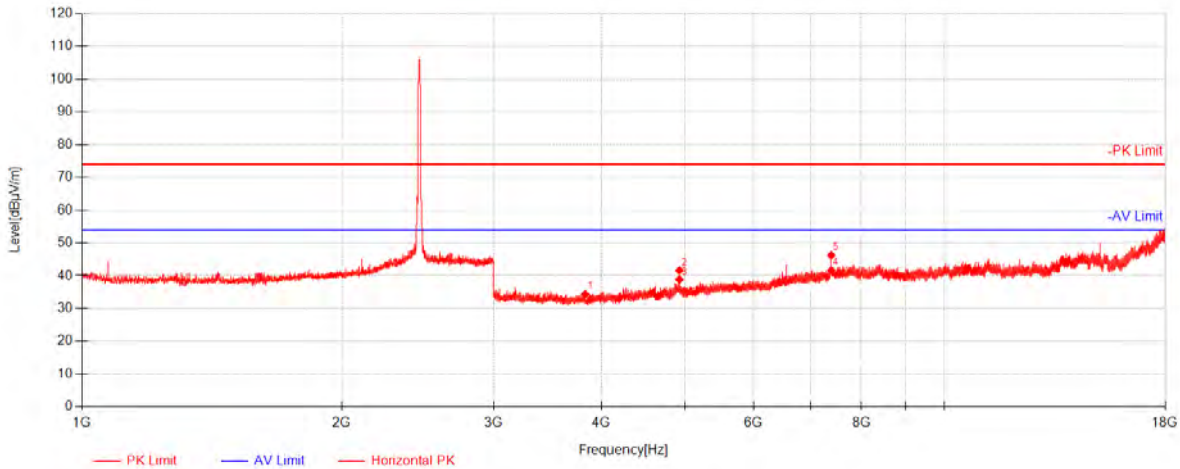


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3829.5	51.46	28.93	-46.03	34.36	74.00	39.64	256	195	Horizontal
2	4924.0000	55.95	31.23	-45.56	41.63	74.00	32.37	142	25	Horizontal
3	4924.5	53.16	31.23	-45.56	38.84	54.00	15.16	248	54	Horizontal
4	7384.5	48.88	36.28	-43.46	41.69	54.00	12.31	179	335	Horizontal
5	7386.0000	53.42	36.28	-43.46	46.24	74.00	27.76	183	26	Horizontal

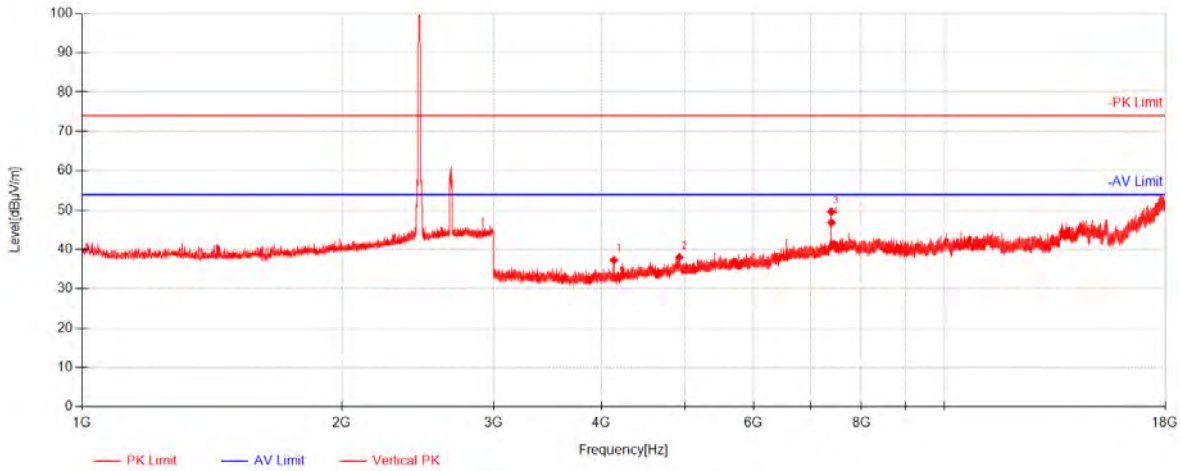


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4135	53.63	29.42	-45.76	37.29	74.00	36.71	187	72	Vertical
2	4924.0000	52.35	31.23	-45.56	38.03	74.00	35.97	256	110	Vertical
3	7386.0000	56.81	36.28	-43.46	49.63	74.00	24.37	199	276	Vertical
4	7387.5	54.02	36.29	-43.45	46.85	54.00	7.15	203	82	Vertical



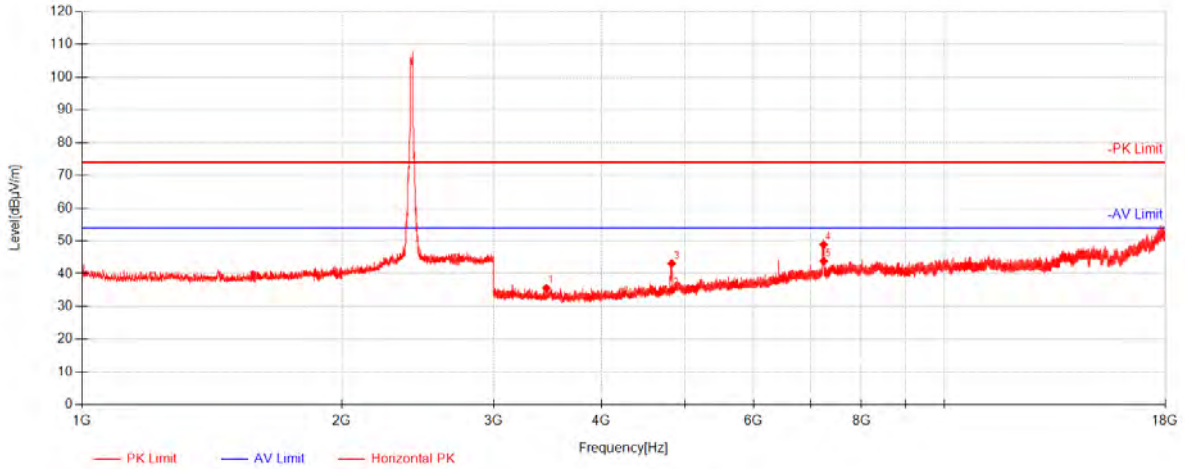
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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3452.5	53.31	28.57	-46.27	35.61	74.00	38.39	144	136	Horizontal
2	4824	49.49	31.01	-45.54	34.97	54.00	19.03	284	25	Horizontal
3	4824.5	57.65	31.01	-45.54	43.13	74.00	30.87	176	25	Horizontal
4	7236.0000	56.52	35.86	-43.54	48.84	74.00	25.16	178	250	Horizontal
5	7239.5	51.50	35.87	-43.55	43.82	54.00	10.18	256	195	Horizontal

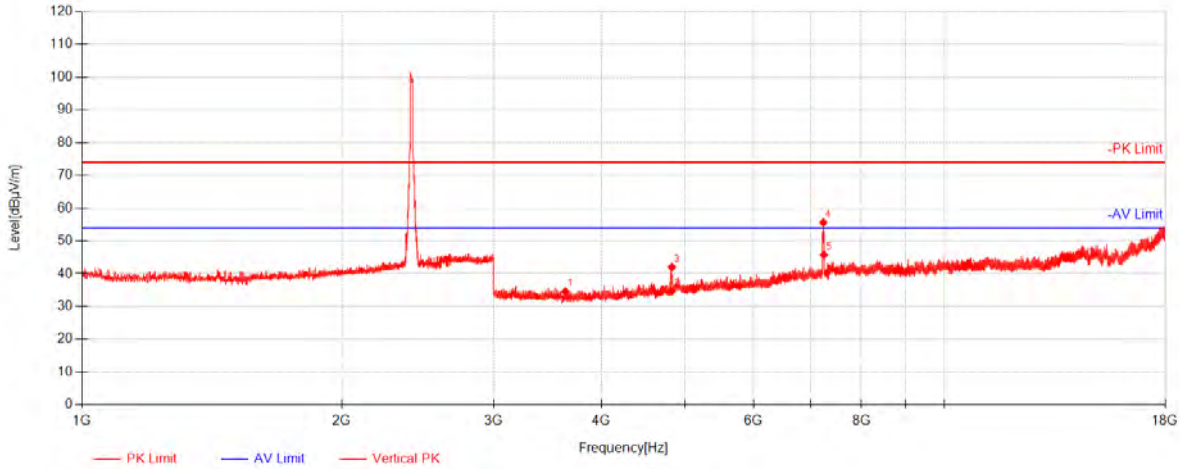


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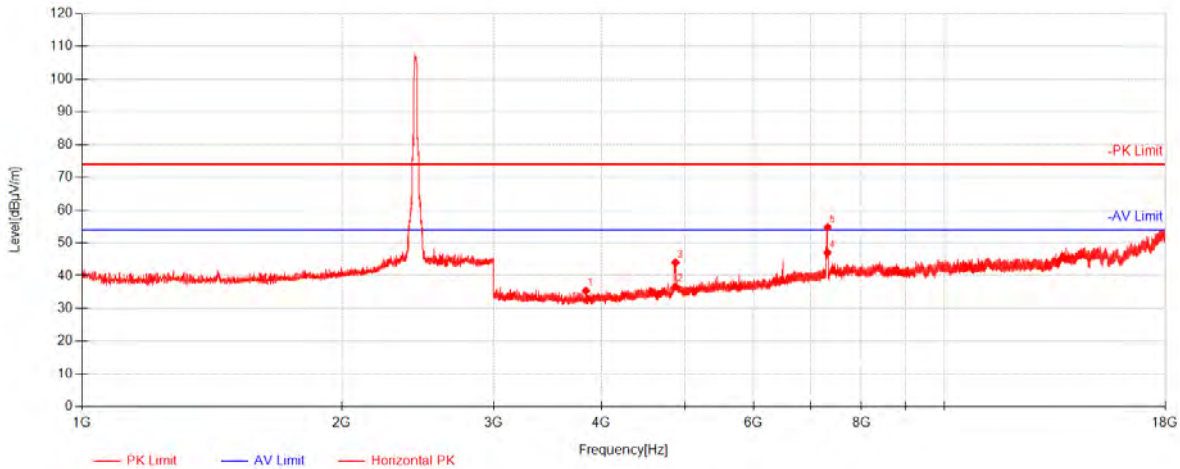
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3632.5	51.75	28.73	-45.93	34.56	74.00	39.44	211	250	Vertical
2	4825	49.21	31.02	-45.54	34.69	54.00	19.31	285	250	Vertical
3	4827.5	56.55	31.02	-45.54	42.03	74.00	31.97	145	279	Vertical
4	7231	63.33	35.85	-43.52	55.65	74.00	18.35	163	250	Vertical
5	7243.5	53.44	35.88	-43.56	45.76	54.00	8.24	251	279	Vertical



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802.11g_Channel 06



Data List										
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1	3837	52.49	28.94	-46.05	35.37	74.00	38.63	201	280	Horizontal
2	4872	51.02	31.12	-45.53	36.61	54.00	17.39	254	28	Horizontal
3	4874.0000	58.42	31.12	-45.53	44.01	74.00	29.99	126	1	Horizontal
4	7312.5	54.67	36.08	-43.71	47.04	54.00	6.96	213	169	Horizontal
5	7315.5	62.41	36.08	-43.70	54.80	74.00	19.20	266	26	Horizontal

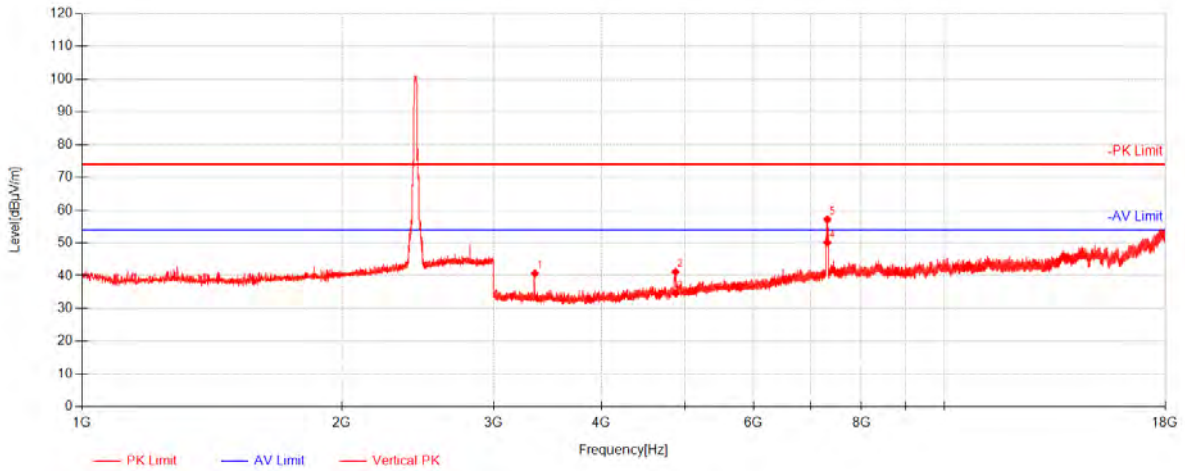


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Data List										
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1	3349	58.56	28.51	-46.37	40.70	74.00	33.30	254	109	Vertical
2	4874.0000	55.56	31.12	-45.53	41.15	74.00	32.85	187	223	Vertical
3	4878	49.02	31.13	-45.53	34.62	54.00	19.38	111	278	Vertical
4	7308.5	57.82	36.06	-43.72	50.16	54.00	3.84	231	83	Vertical
5	7311.0000	64.77	36.07	-43.71	57.13	74.00	16.87	118	83	Vertical

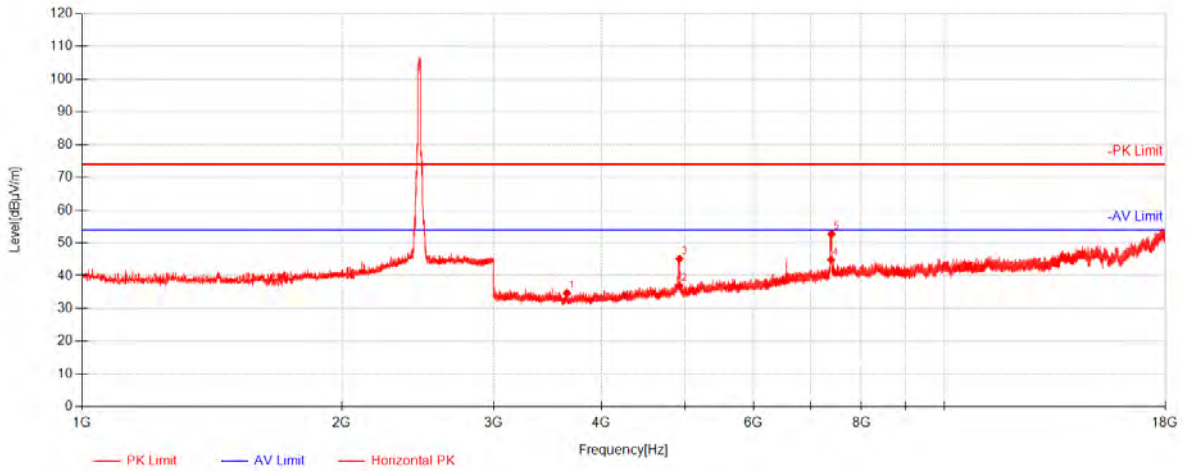


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3647.5	51.75	28.75	-45.83	34.67	74.00	39.33	122	0	Horizontal
2	4923.5	51.22	31.23	-45.56	36.90	54.00	17.10	187	24	Horizontal
3	4925.5	59.48	31.24	-45.56	45.16	74.00	28.84	254	24	Horizontal
4	7382.5	52.08	36.27	-43.47	44.88	54.00	9.12	142	25	Horizontal
5	7391	59.88	36.29	-43.44	52.73	74.00	21.27	263	25	Horizontal

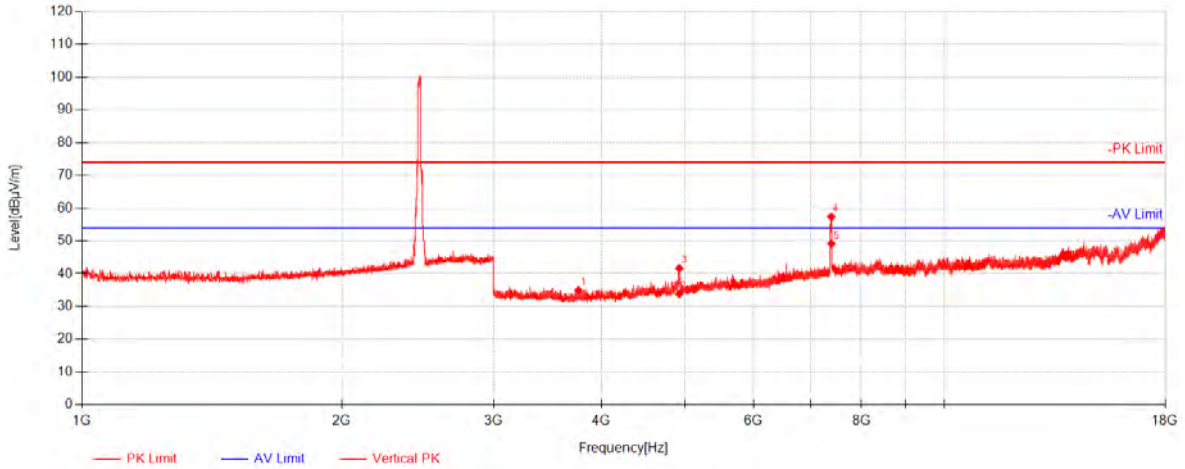


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3761.5	51.80	28.86	-45.76	34.90	74.00	39.10	215	331	Vertical
2	4921.5	48.21	31.23	-45.55	33.88	54.00	20.12	245	111	Vertical
3	4924.0000	56.00	31.23	-45.56	41.68	74.00	32.32	231	56	Vertical
4	7386.0000	64.58	36.28	-43.46	57.40	74.00	16.60	155	251	Vertical
5	7388	56.33	36.29	-43.45	49.17	54.00	4.83	189	85	Vertical

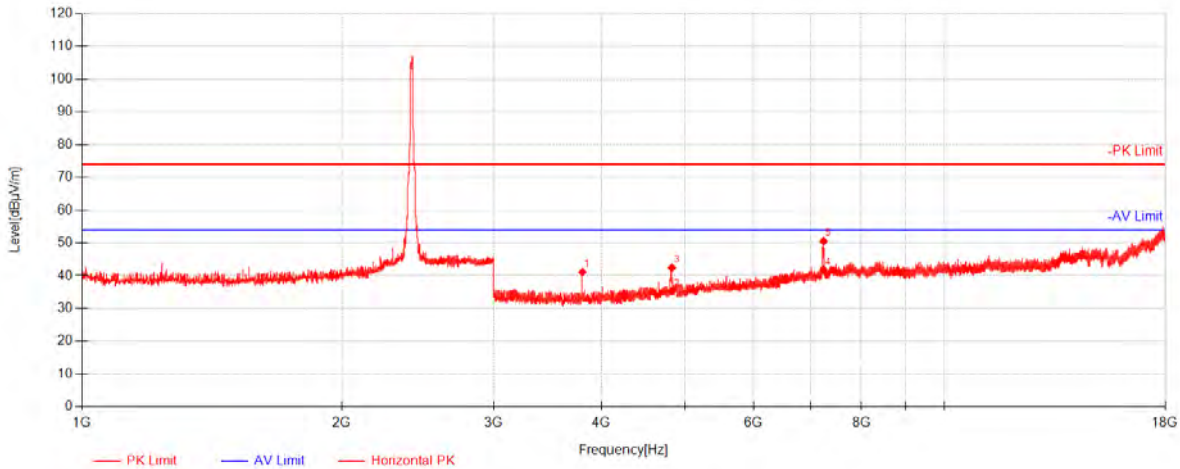


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3801.5	58.12	28.90	-45.93	41.10	74.00	32.90	269	360	Horizontal
2	4825.5	49.82	31.02	-45.54	35.30	54.00	18.70	133	360	Horizontal
3	4826.5	56.98	31.02	-45.54	42.46	74.00	31.54	214	4	Horizontal
4	7234.5	49.55	35.86	-43.53	41.87	54.00	12.13	187	171	Horizontal
5	7237	58.22	35.86	-43.54	50.54	74.00	23.46	230	3	Horizontal

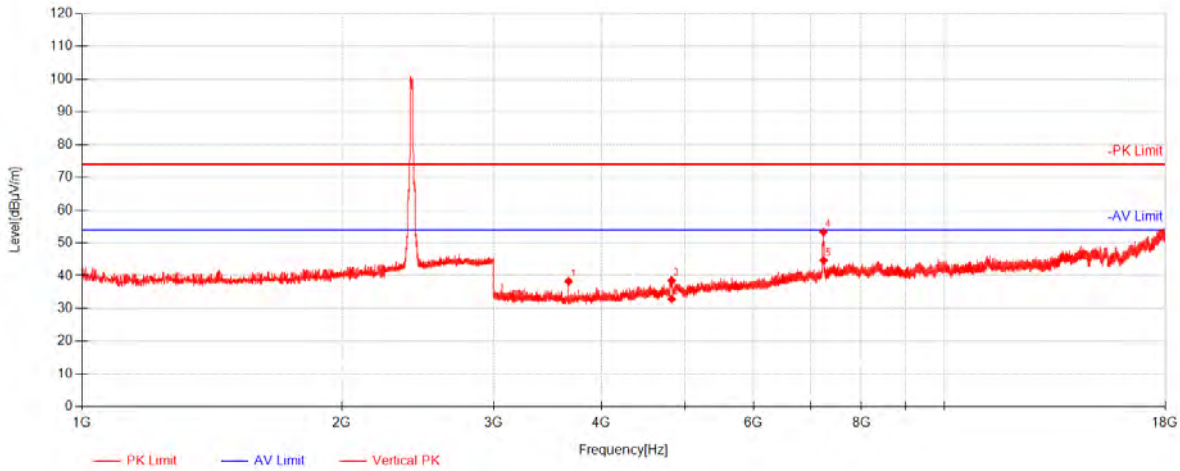


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802.11n20_Channel 01



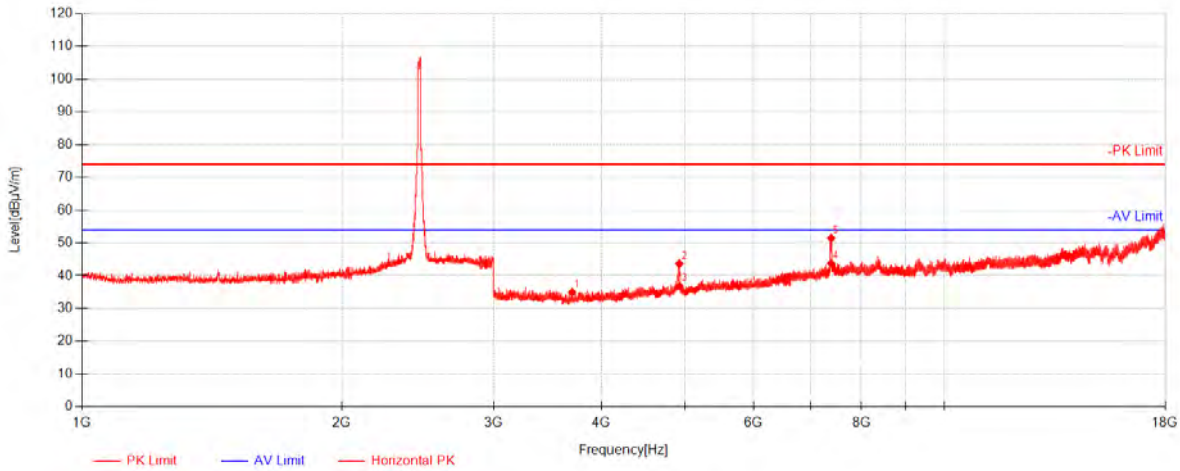
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3664	55.28	28.76	-45.73	38.32	74.00	35.68	145	339	Vertical
2	4823.5	47.39	31.01	-45.54	32.86	54.00	21.14	214	107	Vertical
3	4824.0000	53.03	31.01	-45.54	38.51	74.00	35.49	155	150	Vertical
4	7233.5	61.03	35.85	-43.53	53.35	74.00	20.65	287	276	Vertical
5	7237.5	52.36	35.87	-43.54	44.68	54.00	9.32	103	255	Vertical



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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3698.5	51.64	28.80	-45.51	34.93	74.00	39.07	256	360	Horizontal
2	4924	57.94	31.23	-45.56	43.62	74.00	30.38	145	22	Horizontal
3	4926	51.16	31.24	-45.56	36.84	54.00	17.16	132	128	Horizontal
4	7383.5	50.90	36.27	-43.47	43.71	54.00	10.29	144	193	Horizontal
5	7384	58.67	36.28	-43.46	51.48	74.00	22.52	187	45	Horizontal

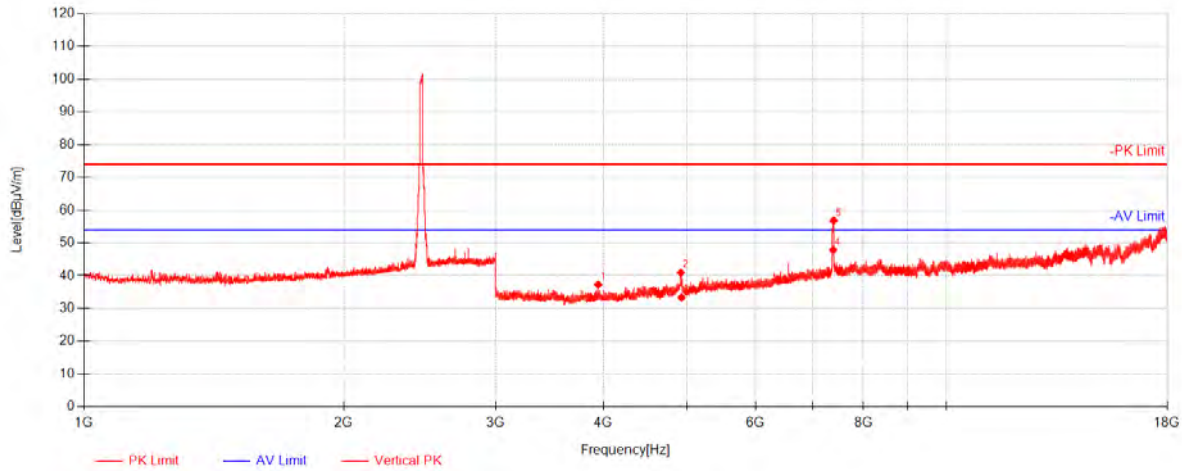


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3944	54.43	29.04	-46.17	37.30	74.00	36.70	254	360	Vertical
2	4917.5	55.28	31.22	-45.55	40.95	74.00	33.05	188	126	Vertical
3	4926	47.69	31.24	-45.56	33.37	54.00	20.63	269	106	Vertical
4	7383.5	55.04	36.27	-43.47	47.85	54.00	6.15	133	84	Vertical
5	7393.5	63.97	36.30	-43.43	56.84	74.00	17.16	121	86	Vertical

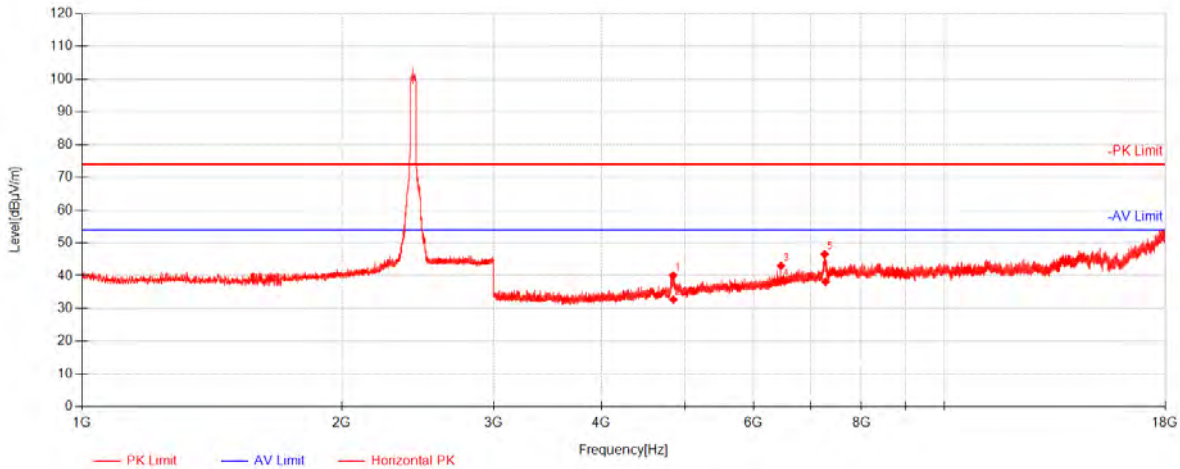


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4842.5	54.53	31.05	-45.54	40.05	74.00	33.95	254	360	Horizontal
2	4845.5	47.19	31.06	-45.54	32.71	54.00	21.29	156	3	Horizontal
3	6458.5	53.36	34.17	-44.53	43.00	74.00	31.00	136	337	Horizontal
4	6459	48.78	34.17	-44.53	38.42	54.00	15.58	259	337	Horizontal
5	7256.5	54.27	35.92	-43.61	46.58	74.00	27.42	184	106	Horizontal
6	7275	45.90	35.97	-43.67	38.20	54.00	15.80	175	4	Horizontal

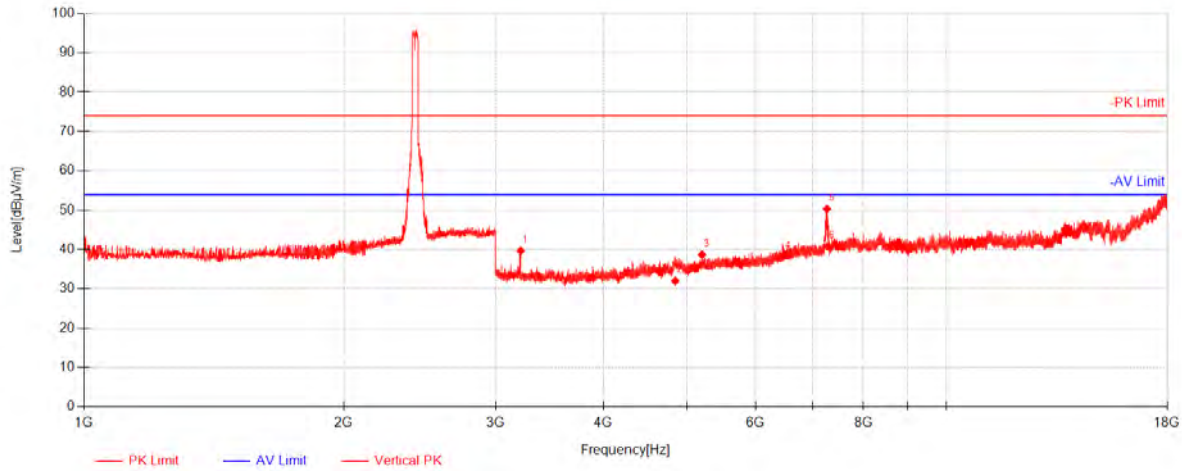


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802.11n40_Channel 03



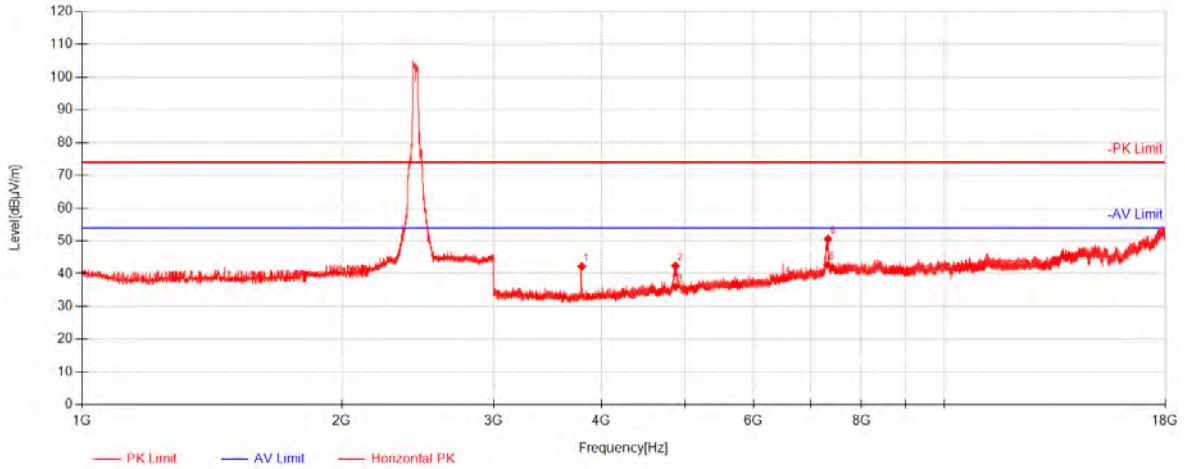
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3206.5	57.04	28.42	-45.78	39.69	74.00	34.31	248	273	Vertical
2	4843.5	46.49	31.06	-45.54	32.01	54.00	21.99	178	105	Vertical
3	5203	52.10	31.89	-45.27	38.71	74.00	35.29	186	108	Vertical
4	6459	48.58	34.17	-44.53	38.22	54.00	15.78	259	42	Vertical
5	7262	58.01	35.93	-43.62	50.32	74.00	23.68	166	273	Vertical
6	7270	48.51	35.96	-43.65	40.81	54.00	13.19	143	64	Vertical



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802.11n40_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3795	59.23	28.90	-45.90	42.23	74.00	31.77	201	359	Horizontal
2	4873	56.83	31.12	-45.53	42.42	74.00	31.58	187	24	Horizontal
3	4873.5	50.45	31.12	-45.53	36.04	54.00	17.96	144	4	Horizontal
4	6499	48.82	34.30	-44.61	38.51	54.00	15.49	123	4	Horizontal
5	7304	50.38	36.05	-43.74	42.69	54.00	11.31	132	212	Horizontal
6	7322	58.18	36.10	-43.68	50.61	74.00	23.39	154	190	Horizontal

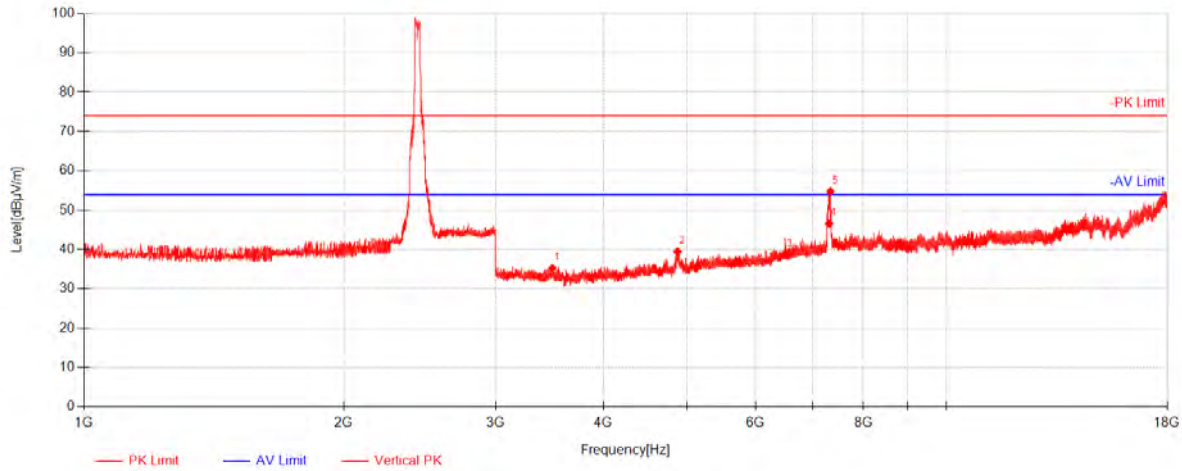


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802.11n40_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3490	52.94	28.59	-46.26	35.27	74.00	38.73	212	130	Vertical
2	4872.5	53.89	31.12	-45.53	39.48	74.00	34.52	187	298	Vertical
3	6499	48.95	34.30	-44.61	38.64	54.00	15.36	269	45	Vertical
4	7304	54.27	36.05	-43.74	46.58	54.00	7.42	132	276	Vertical
5	7329	62.28	36.12	-43.65	54.75	74.00	19.25	125	109	Vertical

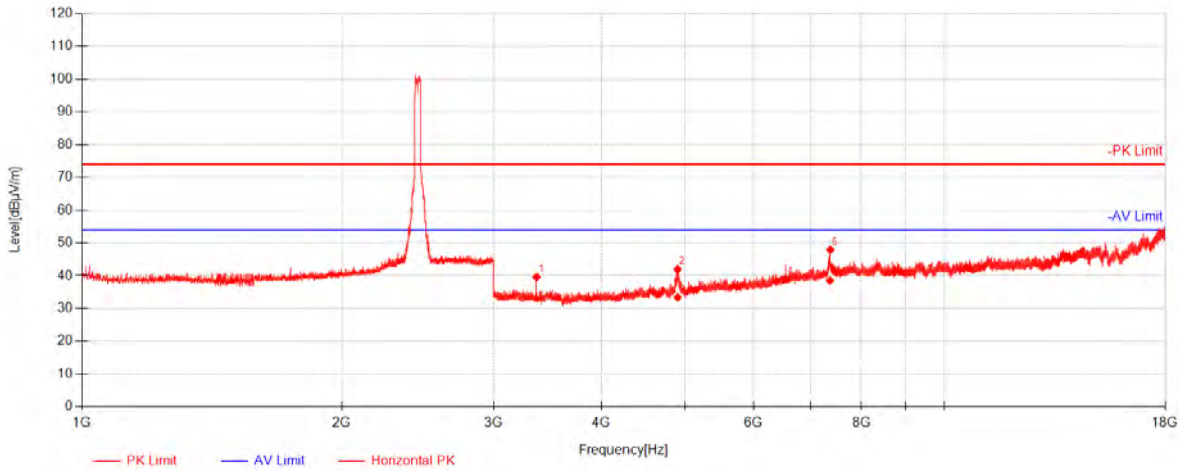


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802.11n40_Channel 11



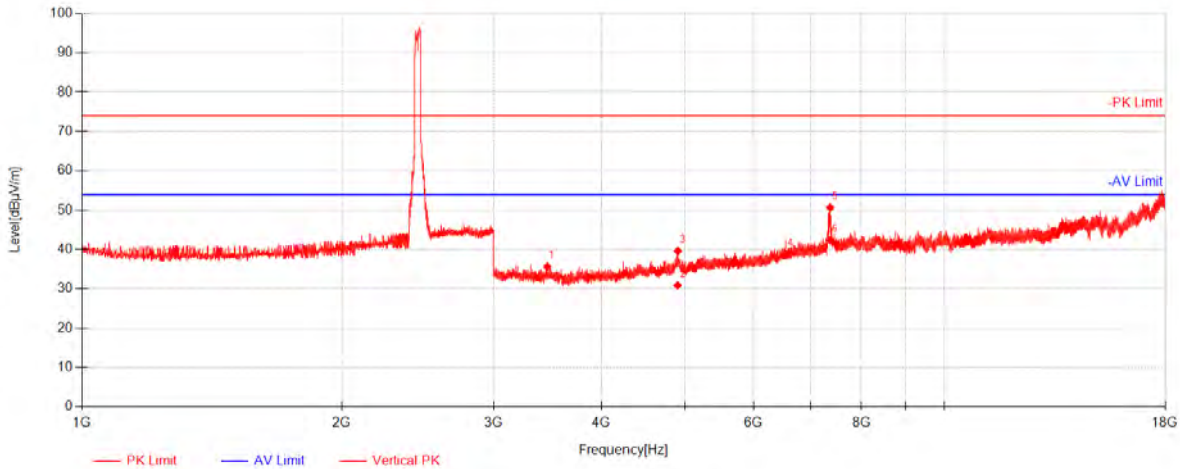
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3364	57.41	28.52	-46.34	39.58	74.00	34.42	256	107	Horizontal
2	4900	56.33	31.18	-45.53	41.98	74.00	32.02	187	359	Horizontal
3	4901.5	47.74	31.18	-45.53	33.39	54.00	20.61	232	360	Horizontal
4	6539	49.13	34.37	-44.51	38.99	54.00	15.01	144	359	Horizontal
5	7360	45.86	36.21	-43.55	38.52	54.00	15.48	124	190	Horizontal
6	7366.5	55.19	36.23	-43.52	47.89	74.00	26.11	159	353	Horizontal



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802.11n40_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3461	53.32	28.58	-46.27	35.63	74.00	38.37	112	359	Vertical
2	4901	45.23	31.18	-45.53	30.88	54.00	23.12	187	107	Vertical
3	4903	53.97	31.19	-45.53	39.62	74.00	34.38	269	126	Vertical
4	6539	48.93	34.37	-44.51	38.79	54.00	15.21	154	43	Vertical
5	7364	57.96	36.22	-43.53	50.65	74.00	23.35	142	107	Vertical
6	7365	49.64	36.22	-43.53	42.33	54.00	11.67	254	65	Vertical

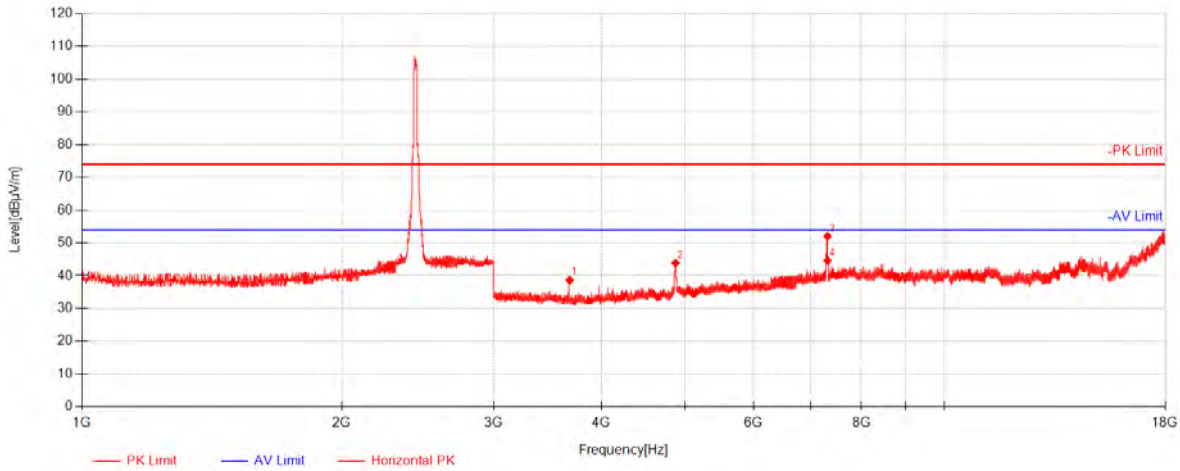


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802.11n20_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3674.5	55.53	28.77	-45.66	38.64	74.00	35.36	213	316	Horizontal
2	4873.5	58.26	31.12	-45.53	43.85	74.00	30.15	155	336	Horizontal
3	7312	59.67	36.07	-43.71	52.03	74.00	21.97	148	171	Horizontal
4	7312.5	52.19	36.08	-43.71	44.56	54.00	9.44	269	190	Horizontal

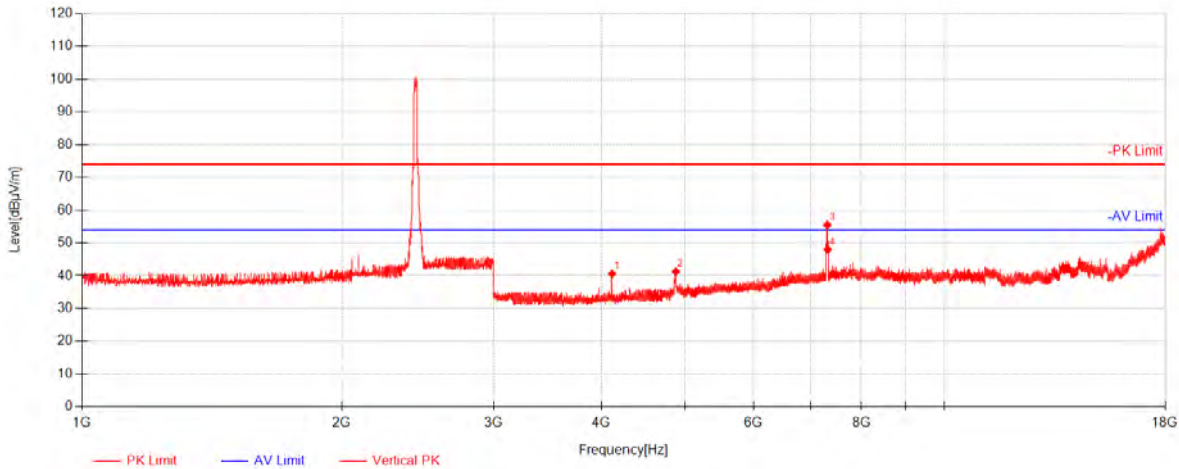


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802.11n20_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4115.5	57.00	29.38	-45.76	40.62	74.00	33.38	142	318	Vertical
2	4878.5	55.65	31.13	-45.53	41.25	74.00	32.75	157	94	Vertical
3	7307.5	63.18	36.06	-43.72	55.52	74.00	18.48	269	256	Vertical
4	7316	55.58	36.08	-43.70	47.97	54.00	6.03	132	66	Vertical

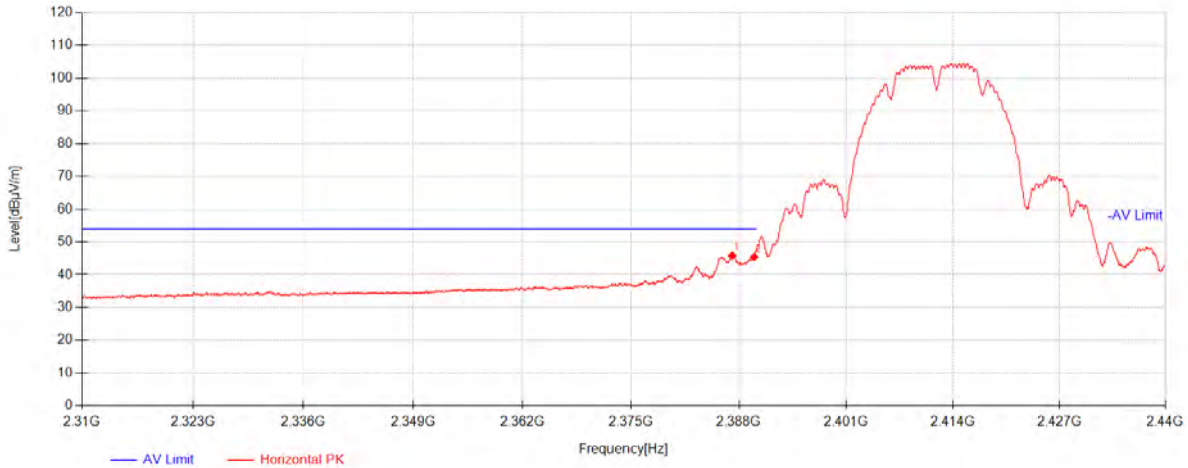
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



Restricted bands around fundamental frequency

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.1767	42.41	26.98	-23.57	45.82	54.00	8.18	153	17	Horizontal
2	2389.82	41.97	26.99	-23.57	45.39	54.00	8.61	153	17	Horizontal

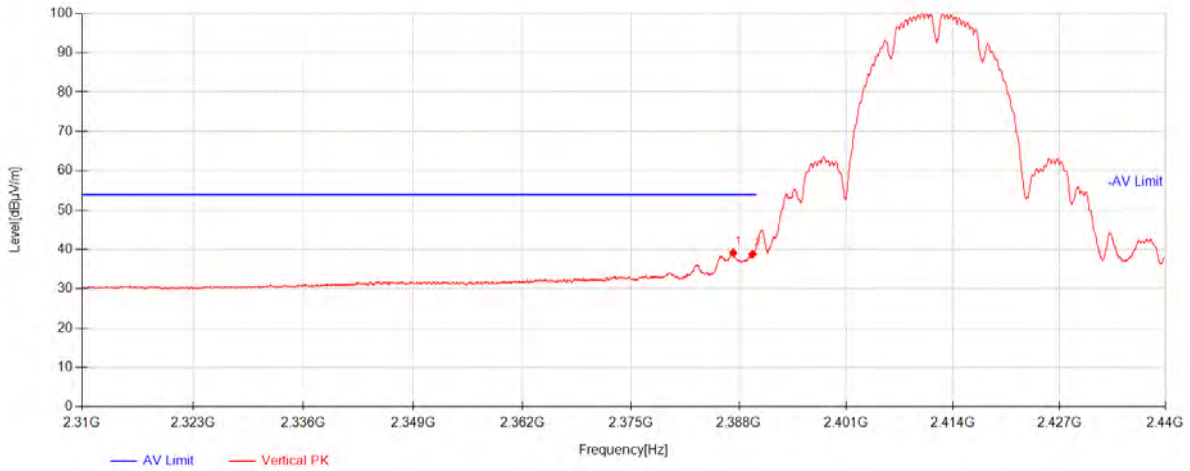


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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.3067	35.75	26.98	-23.57	39.16	54.00	14.84	214	89	Vertical
2	2389.6467	35.42	26.99	-23.57	38.84	54.00	15.16	214	89	Vertical

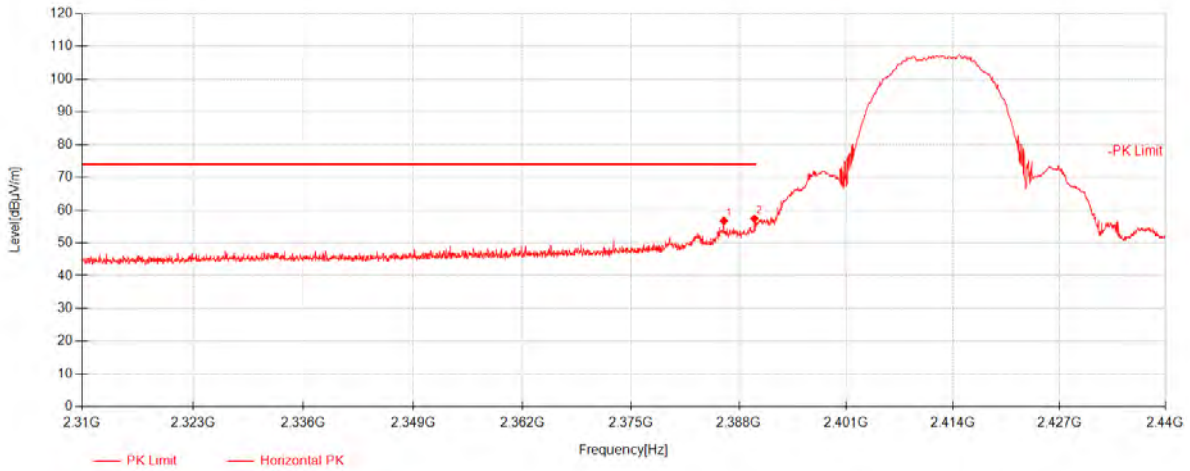


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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.18	53.33	26.98	-23.57	56.74	74.00	17.26	153	17	Horizontal
2	2389.8633	53.99	26.99	-23.57	57.41	74.00	16.59	153	17	Horizontal

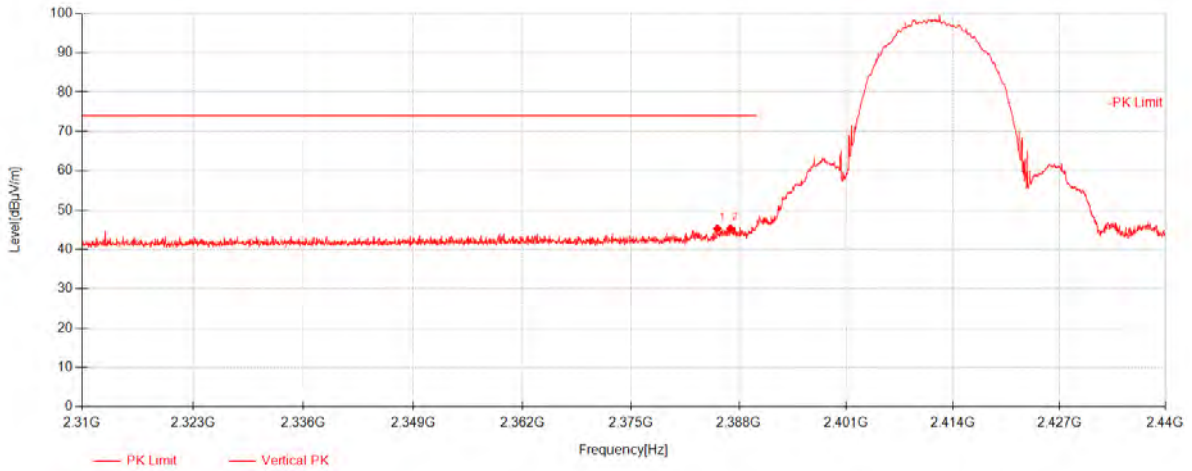


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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.4	41.94	26.98	-23.57	45.35	74.00	28.65	214	89	Vertical
2	2386.96	41.96	26.98	-23.57	45.37	74.00	28.63	214	89	Vertical

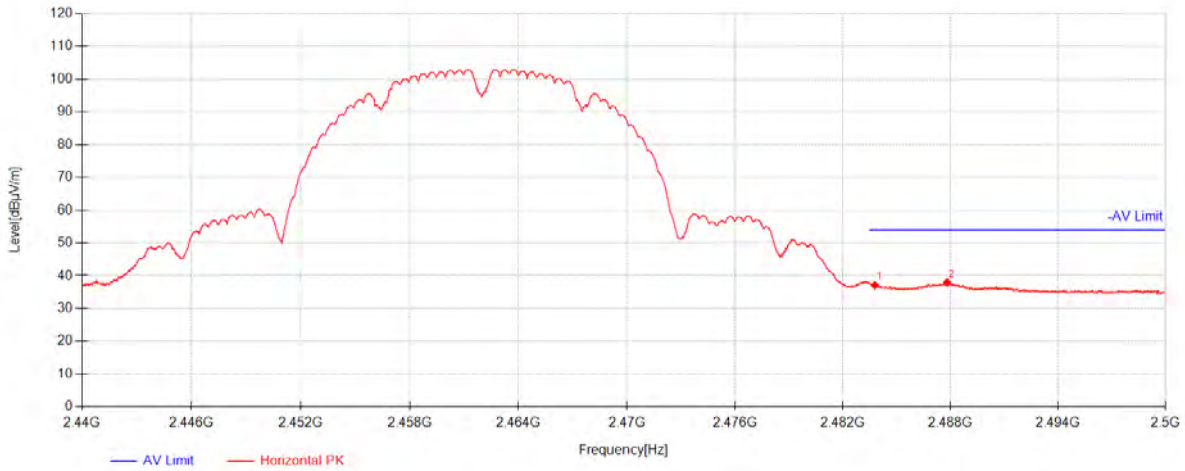


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7775	33.39	27.25	-23.54	37.10	54.00	16.90	158	22	Horizontal
2	2487.805	34.26	27.27	-23.54	37.98	54.00	16.02	158	22	Horizontal

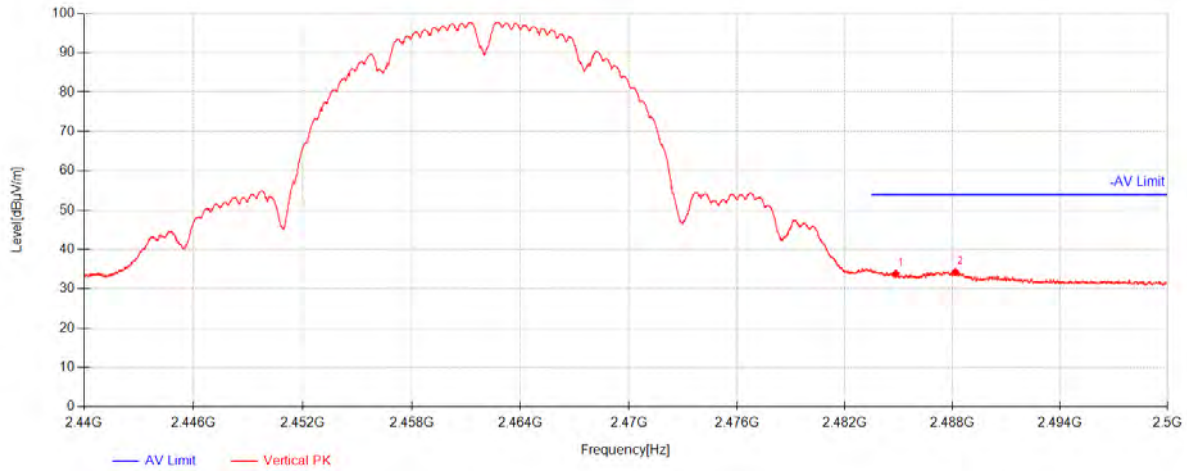


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802.11b_Channel 11



Data List										
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1	2484.835	30.16	27.26	-23.54	33.87	54.00	20.13	155	76	Vertical
2	2488.1575	30.56	27.27	-23.54	34.28	54.00	19.72	155	76	Vertical

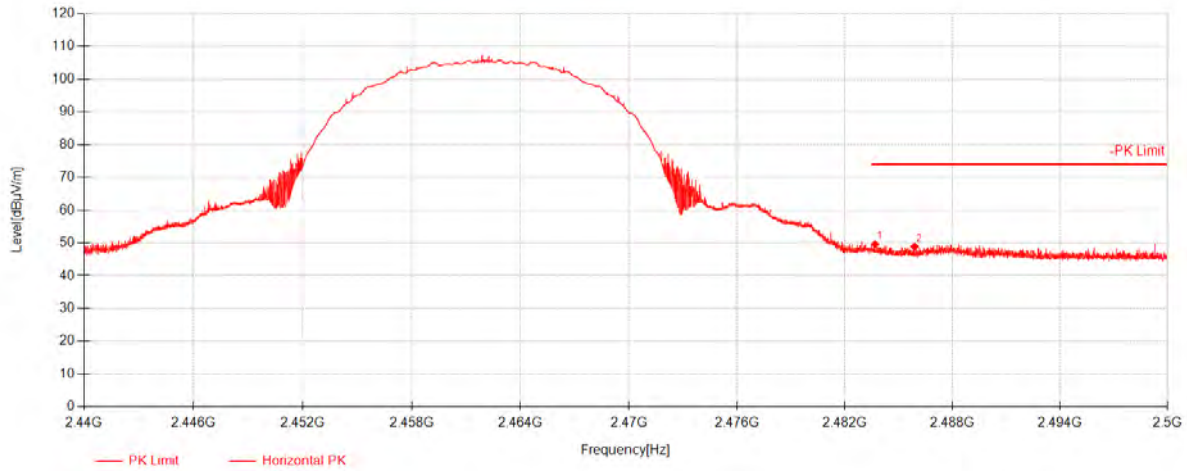


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.68	45.88	27.25	-23.54	49.59	74.00	24.41	158	22	Horizontal
2	2485.8775	45.13	27.26	-23.54	48.85	74.00	25.15	158	22	Horizontal

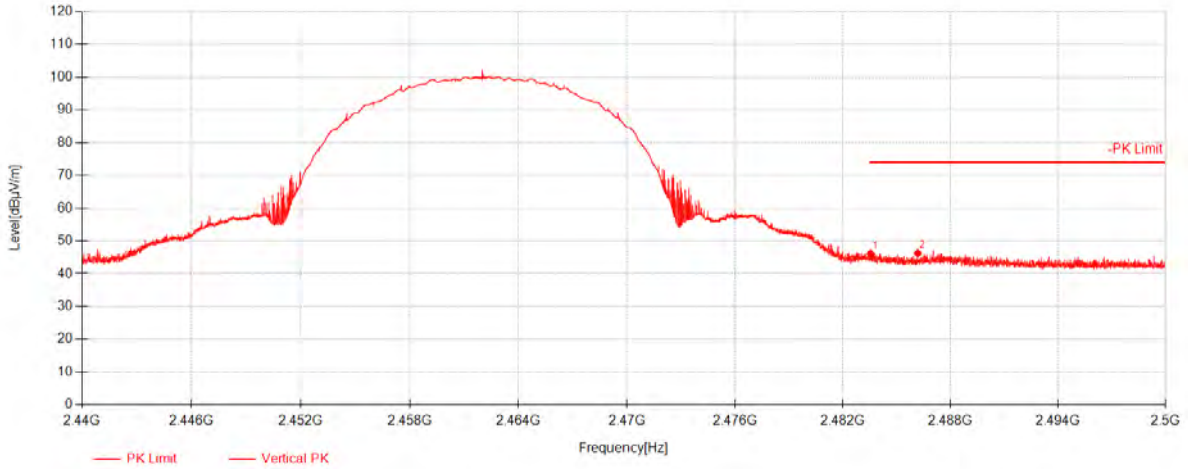


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.545	42.41	27.25	-23.54	46.12	74.00	27.88	155	76	Vertical
2	2486.17	42.53	27.26	-23.54	46.25	74.00	27.75	155	76	Vertical

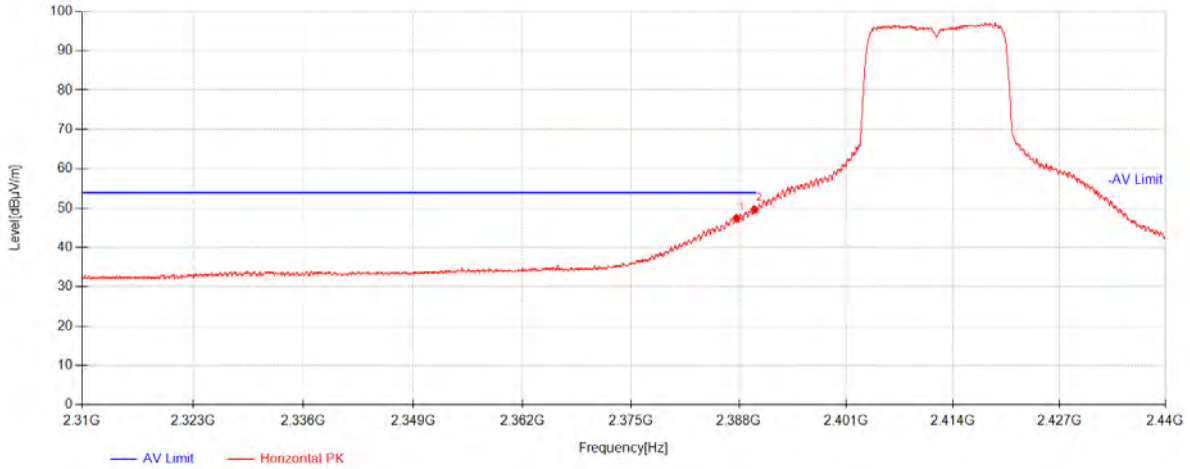


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.6967	44.08	26.99	-23.57	47.49	54.00	6.51	182	19	Horizontal
2	2389.8633	46.32	26.99	-23.57	49.74	54.00	4.26	182	19	Horizontal

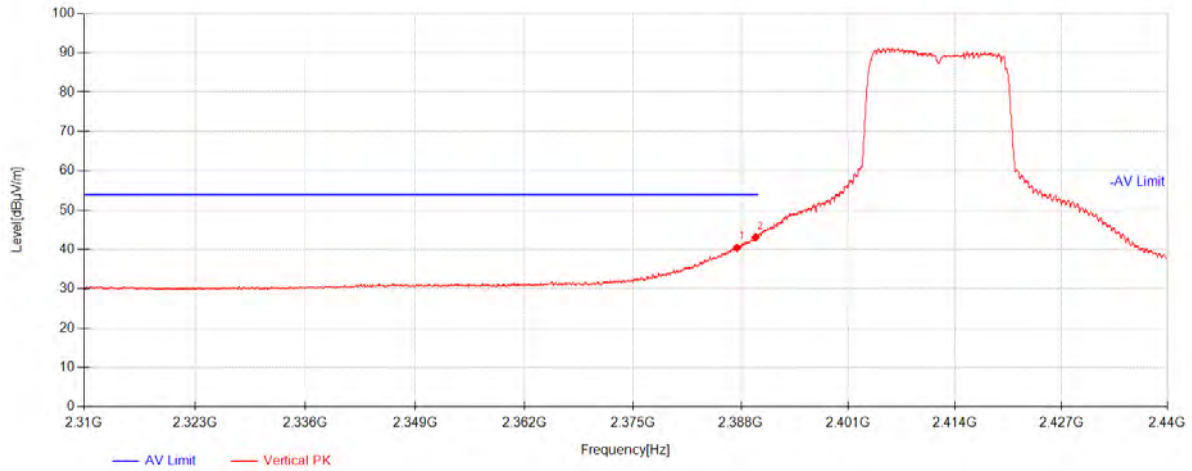


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.5233	37.02	26.99	-23.57	40.43	54.00	13.57	251	109	Vertical
2	2389.7767	39.70	26.99	-23.57	43.12	54.00	10.88	251	109	Vertical

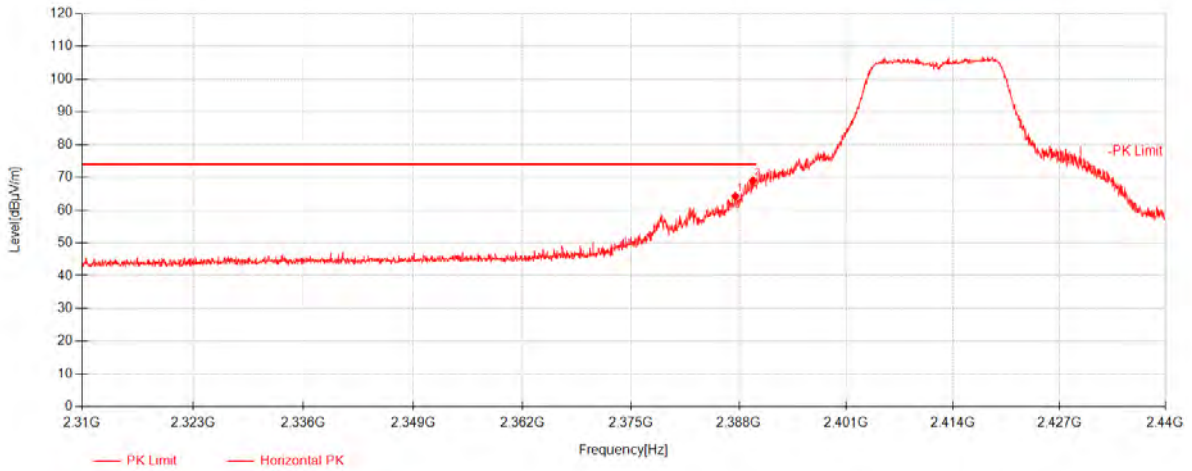


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.5667	60.83	26.99	-23.57	64.24	74.00	9.76	182	19	Horizontal
2	2389.69	65.61	26.99	-23.57	69.03	74.00	4.97	182	19	Horizontal

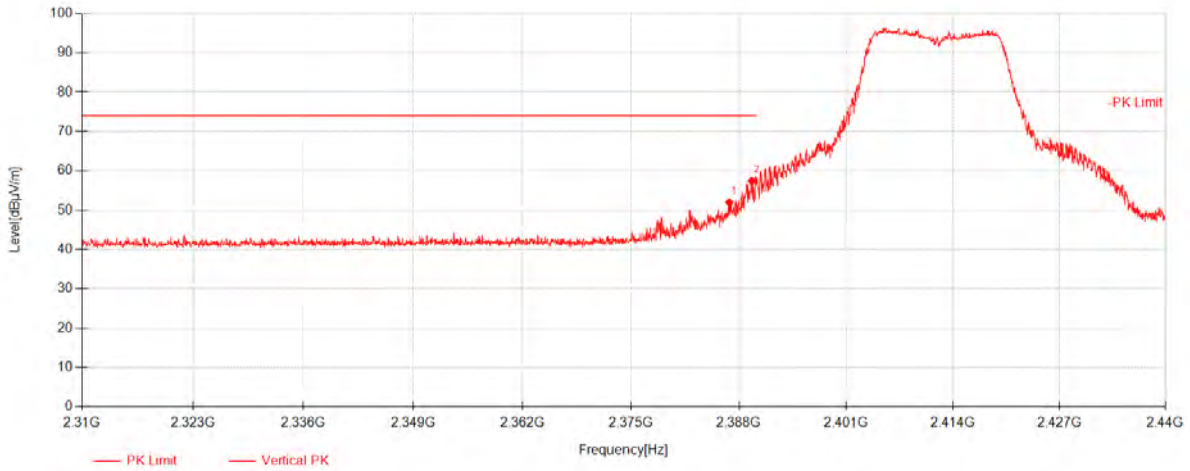


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.83	48.54	26.98	-23.57	51.95	74.00	22.05	251	109	Vertical
2	2389.56	54.02	26.99	-23.57	57.44	74.00	16.56	251	109	Vertical

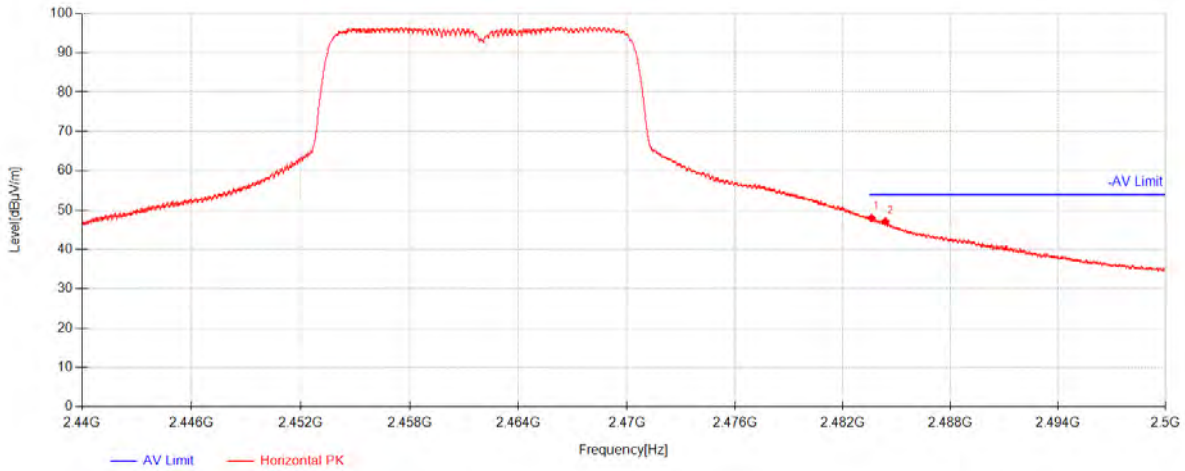


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.59	44.34	27.25	-23.54	48.05	54.00	5.95	156	23	Horizontal
2	2484.3625	43.40	27.26	-23.54	47.11	54.00	6.89	156	23	Horizontal

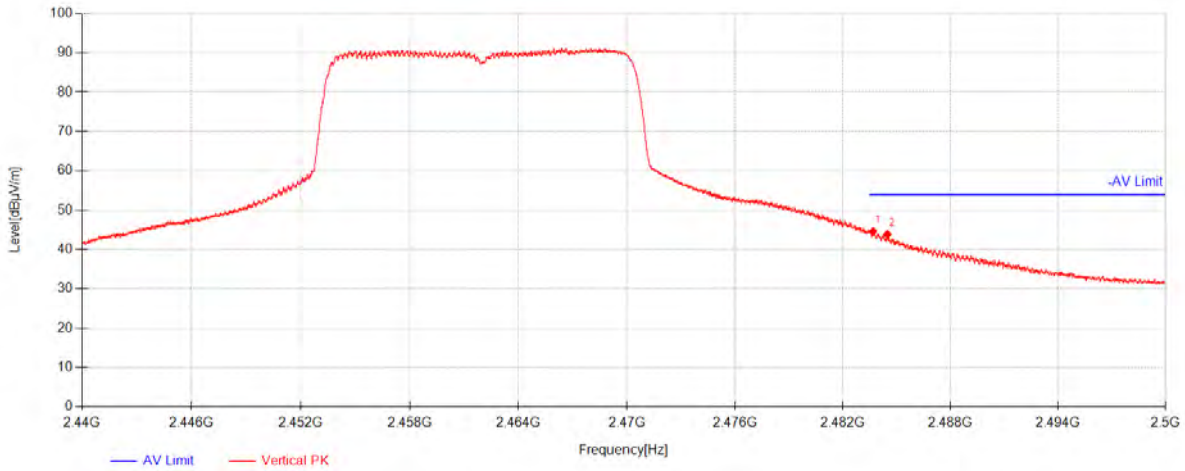


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.68	40.95	27.25	-23.54	44.66	54.00	9.34	255	89	Vertical
2	2484.475	40.16	27.26	-23.54	43.87	54.00	10.13	255	89	Vertical

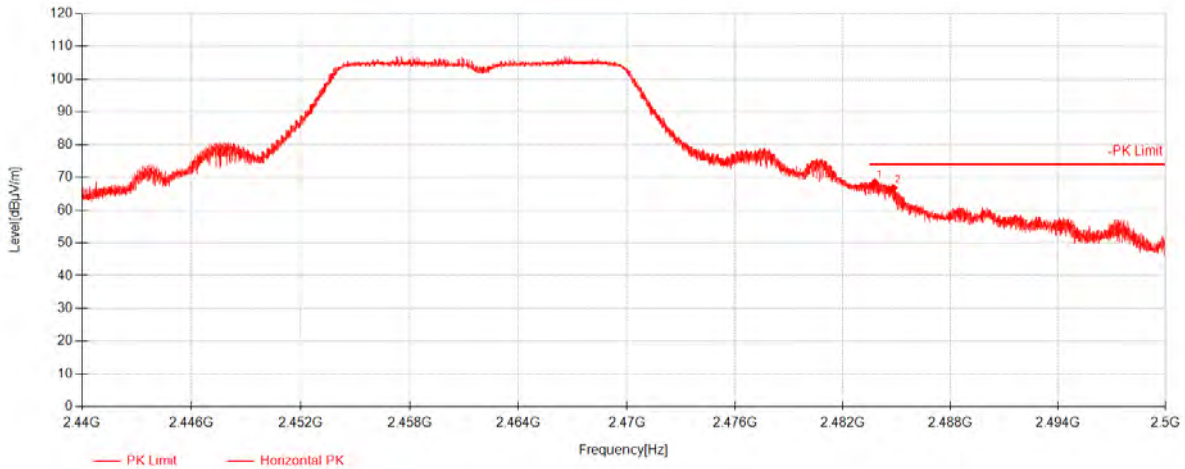


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7775	64.73	27.25	-23.54	68.44	74.00	5.56	156	23	Horizontal
2	2484.8125	63.03	27.26	-23.54	66.74	74.00	7.26	156	23	Horizontal

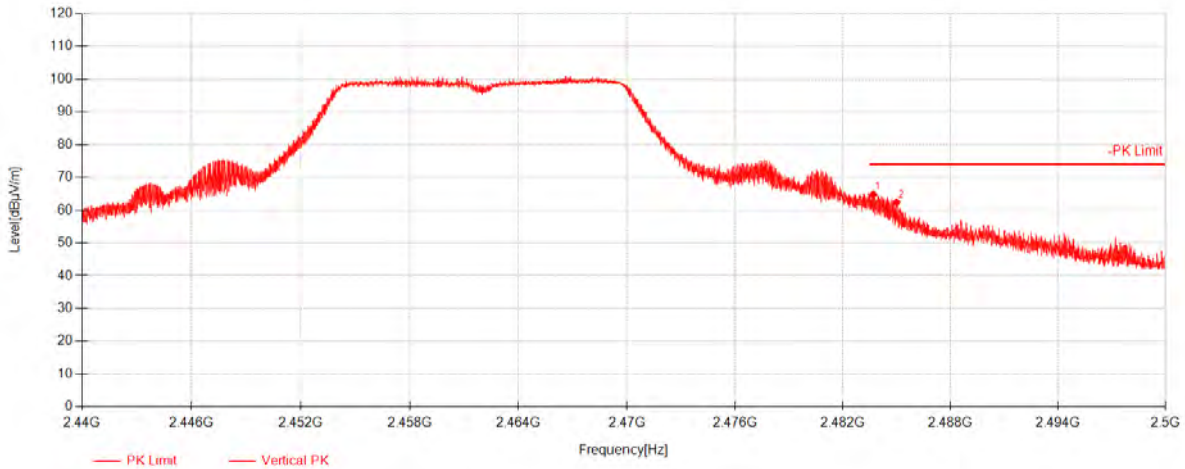


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6875	61.04	27.25	-23.54	64.75	74.00	9.25	255	89	Vertical
2	2484.985	58.64	27.26	-23.54	62.35	74.00	11.65	255	89	Vertical

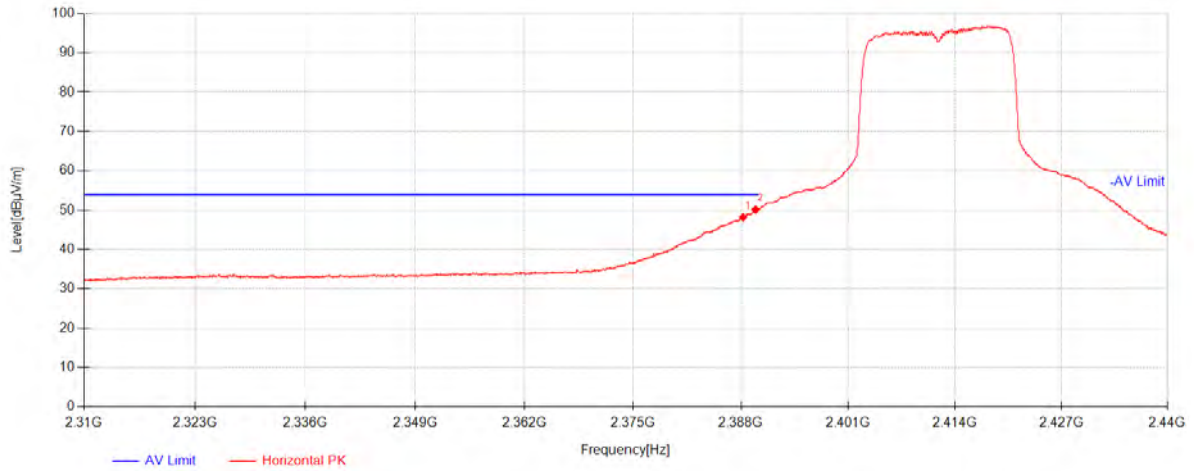


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.26	44.80	26.99	-23.57	48.22	54.00	5.78	152	3	Horizontal
2	2389.7767	46.73	26.99	-23.57	50.15	54.00	3.85	152	3	Horizontal

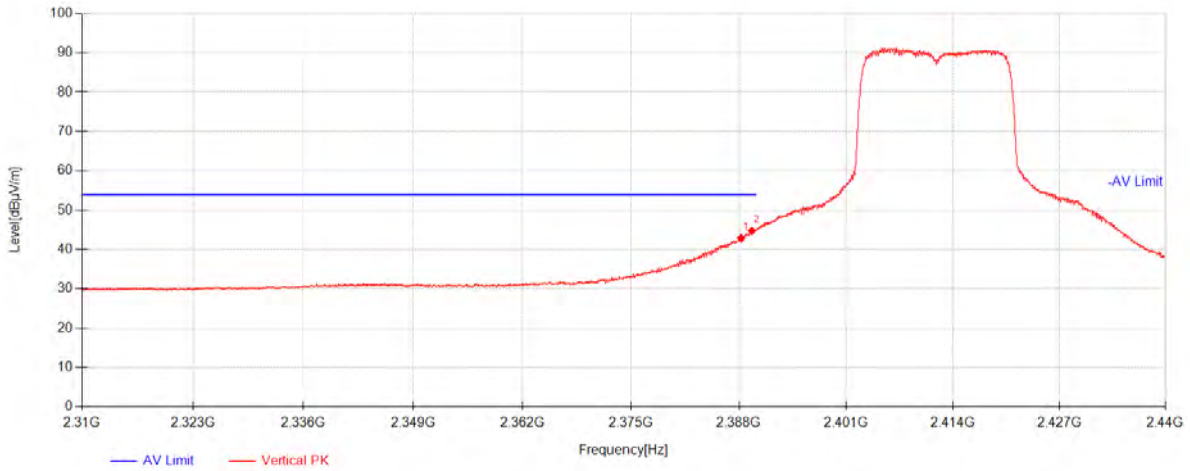


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.26	39.47	26.99	-23.57	42.89	54.00	11.11	185	71	Vertical
2	2389.56	41.32	26.99	-23.57	44.74	54.00	9.26	185	71	Vertical

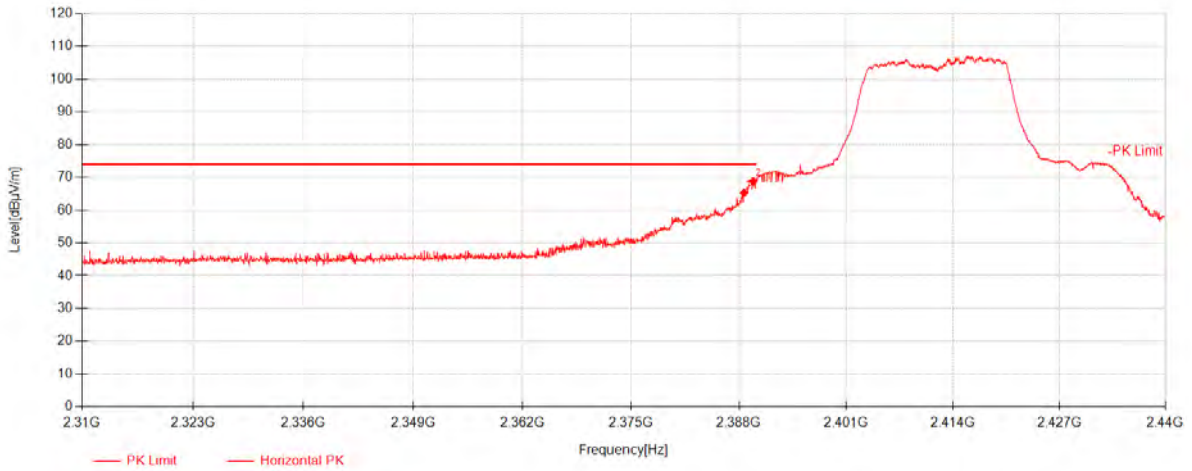


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6067	61.83	26.99	-23.57	65.25	74.00	8.75	152	3	Horizontal
2	2389.7333	65.39	26.99	-23.57	68.81	74.00	5.19	152	3	Horizontal

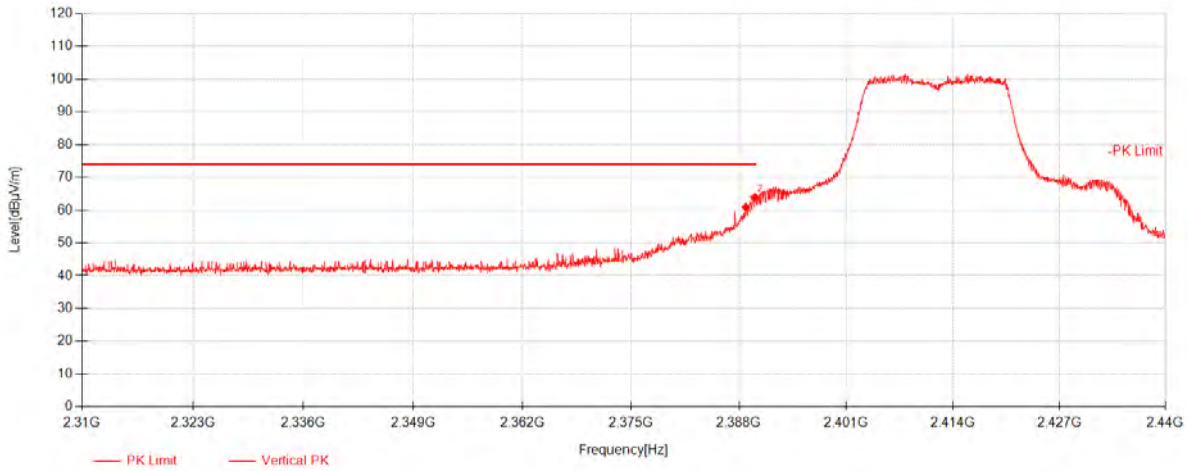


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.8233	57.45	26.99	-23.57	60.87	74.00	13.13	185	71	Vertical
2	2389.95	60.54	26.99	-23.57	63.96	74.00	10.04	185	71	Vertical

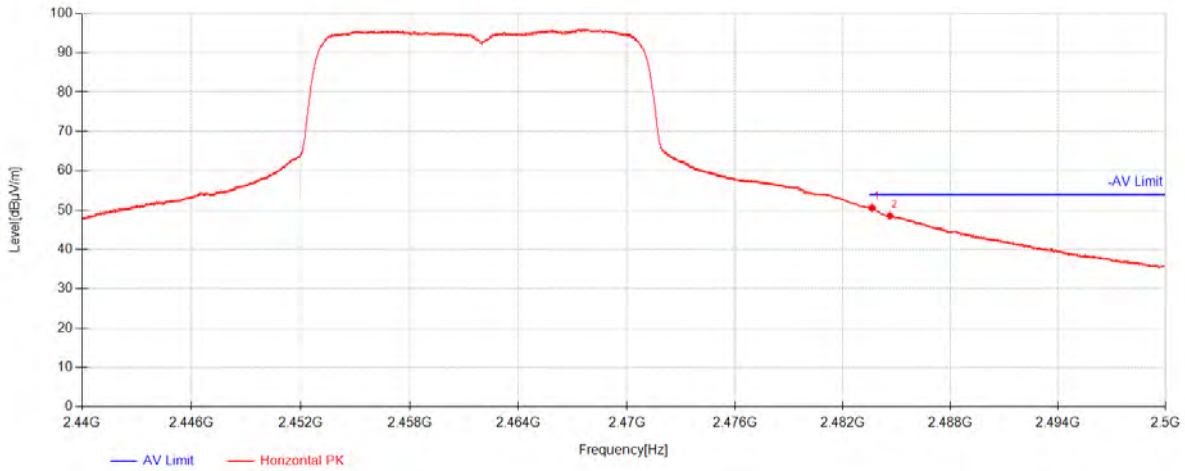


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.62	46.87	27.25	-23.54	50.58	54.00	3.42	187	4	Horizontal
2	2484.6175	44.86	27.26	-23.54	48.57	54.00	5.43	187	4	Horizontal

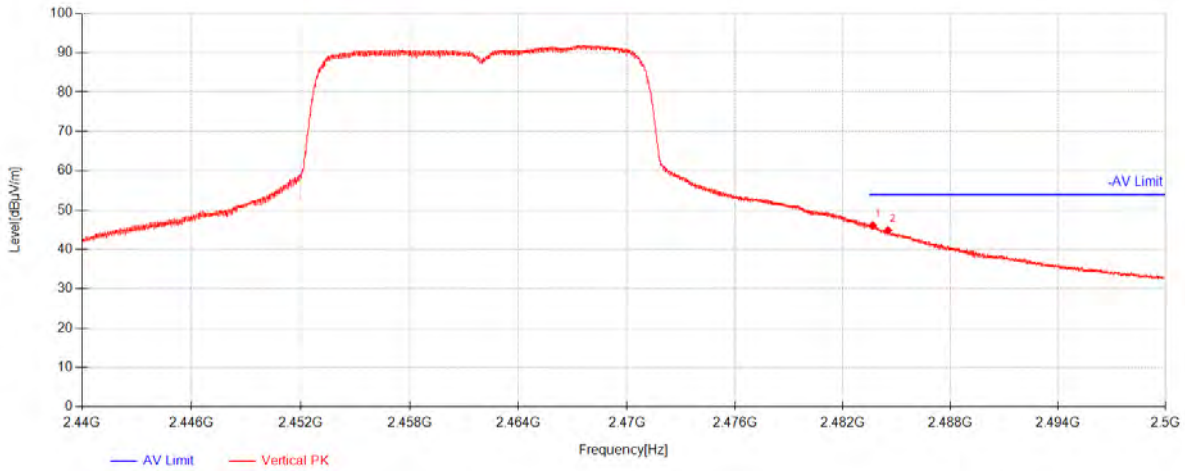


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6575	42.42	27.25	-23.54	46.13	54.00	7.87	254	266	Vertical
2	2484.5125	41.16	27.26	-23.54	44.87	54.00	9.13	254	266	Vertical

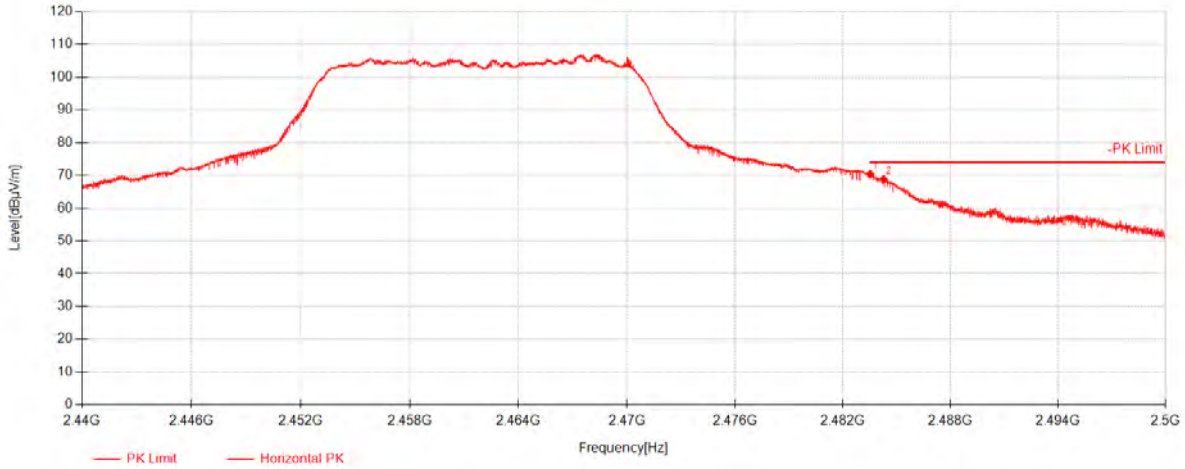


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.515	66.64	27.25	-23.54	70.35	74.00	3.65	187	4	Horizontal
2	2484.265	65.10	27.26	-23.54	68.81	74.00	5.19	187	4	Horizontal

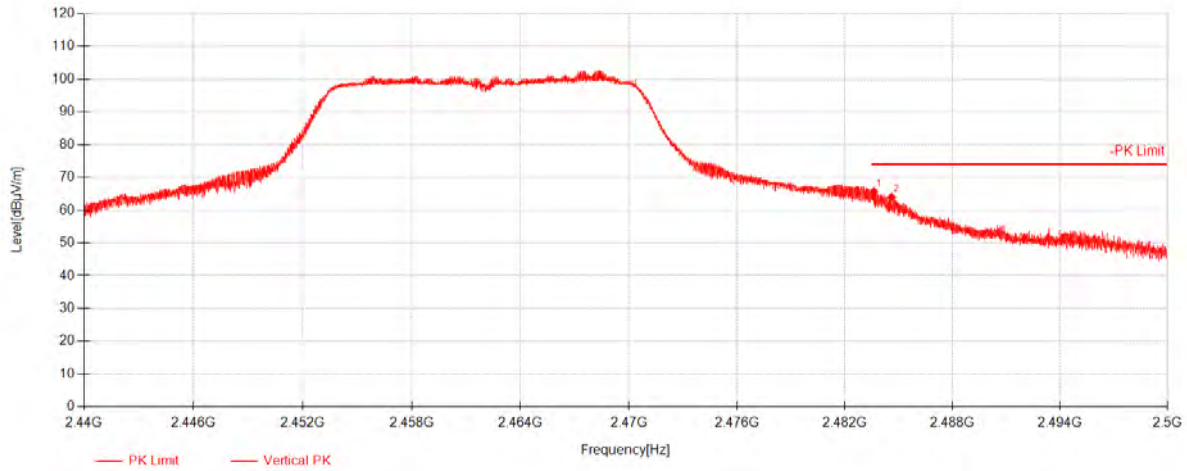


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6125	61.93	27.25	-23.54	65.64	74.00	8.36	254	266	Vertical
2	2484.6025	60.31	27.26	-23.54	64.02	74.00	9.98	254	266	Vertical

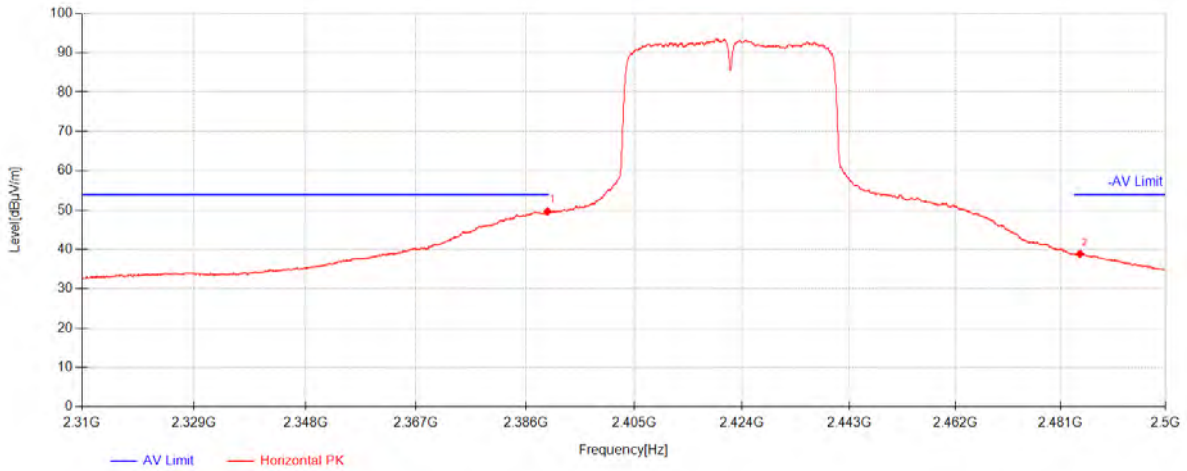


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.82	46.29	26.99	-23.57	49.71	54.00	4.29	148	357	Horizontal
2	2484.52	35.21	27.26	-23.54	38.92	54.00	15.08	148	357	Horizontal

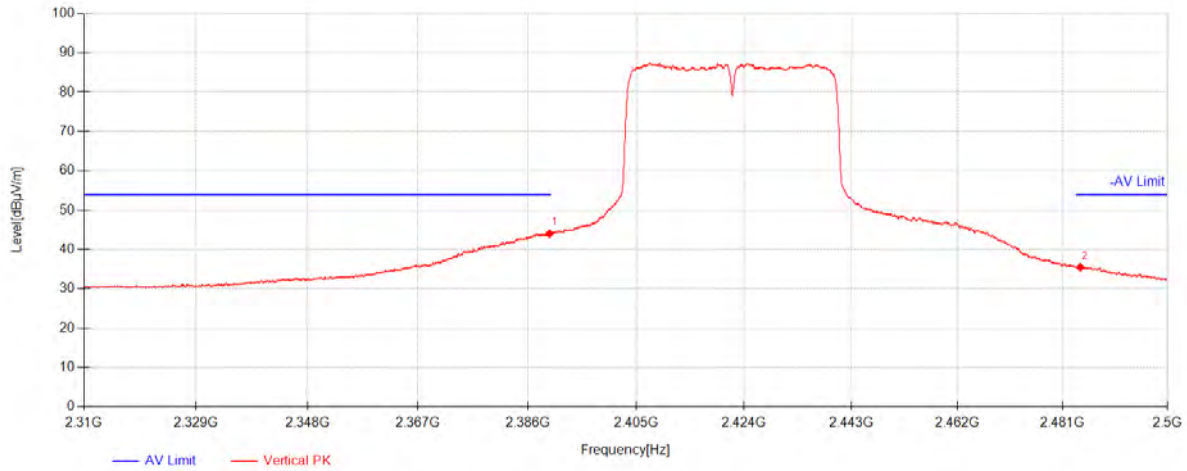


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.82	40.62	26.99	-23.57	44.04	54.00	9.96	143	266	Vertical
2	2484.22	31.80	27.26	-23.54	35.51	54.00	18.49	143	266	Vertical

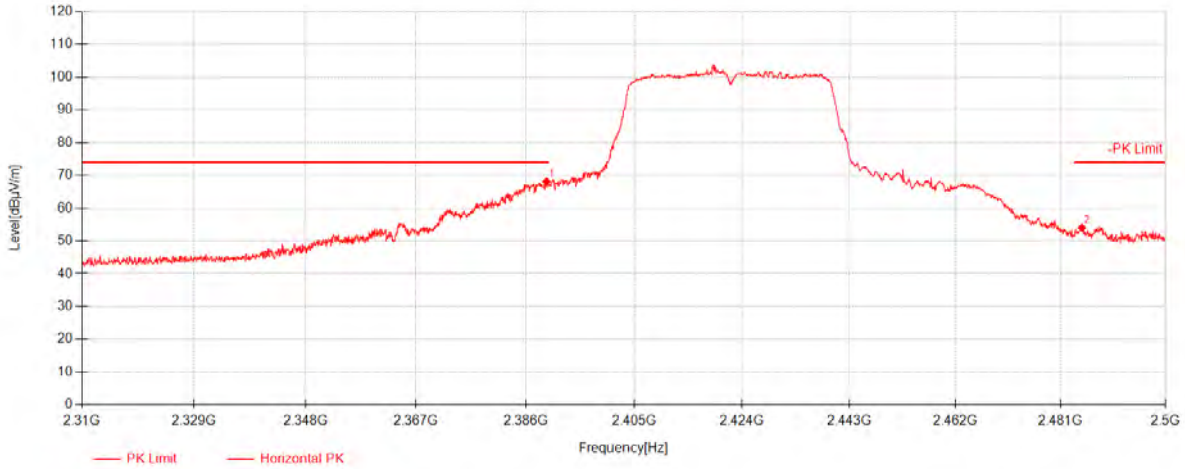


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6467	64.70	26.99	-23.57	68.12	74.00	5.88	148	357	Horizontal
2	2484.88	50.33	27.26	-23.54	54.04	74.00	19.96	148	357	Horizontal

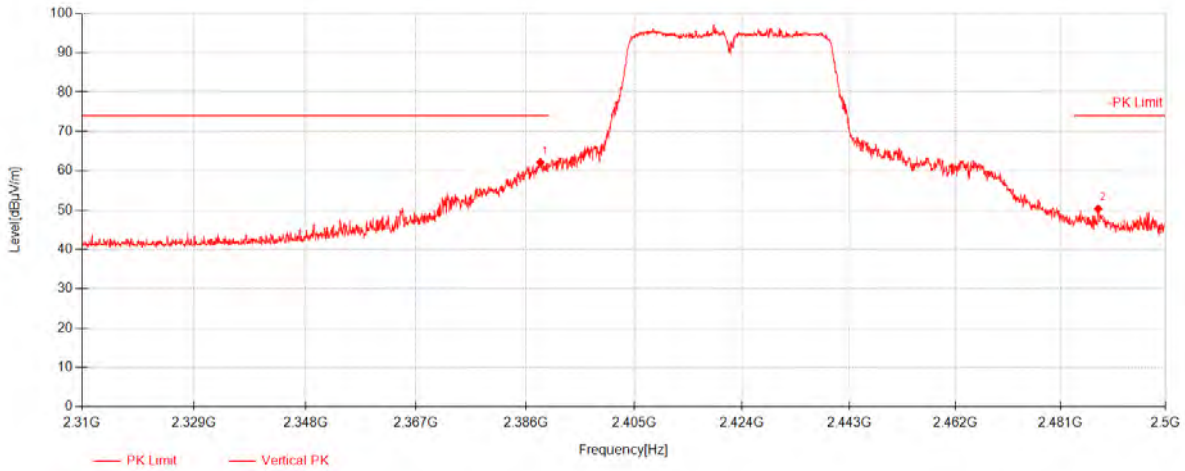


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.5633	58.72	26.99	-23.57	62.14	74.00	11.86	143	266	Vertical
2	2487.82	46.63	27.27	-23.54	50.35	74.00	23.65	143	266	Vertical

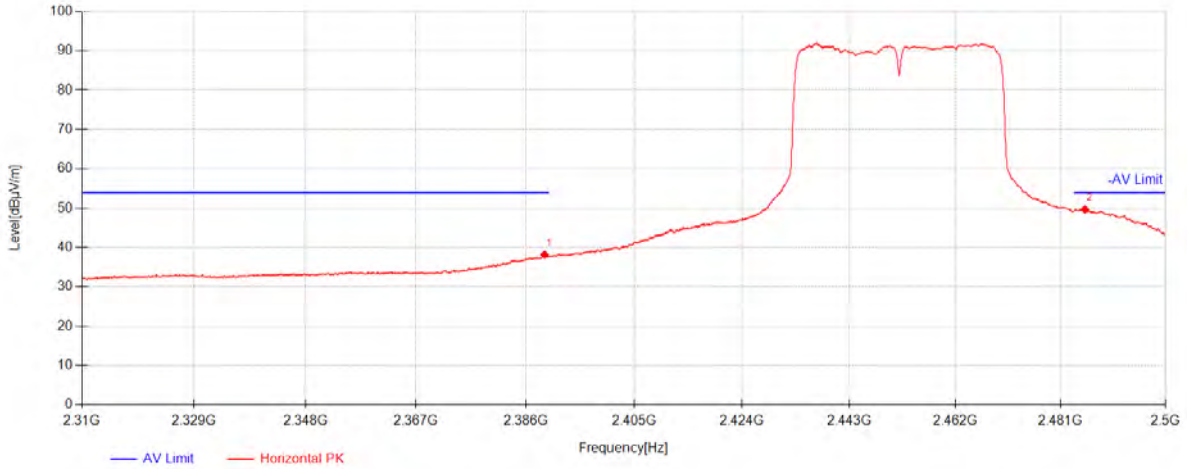


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802.11n40_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3	34.79	26.99	-23.57	38.21	54.00	15.79	269	356	Horizontal
2	2485.42	46.00	27.26	-23.54	49.71	54.00	4.29	269	356	Horizontal

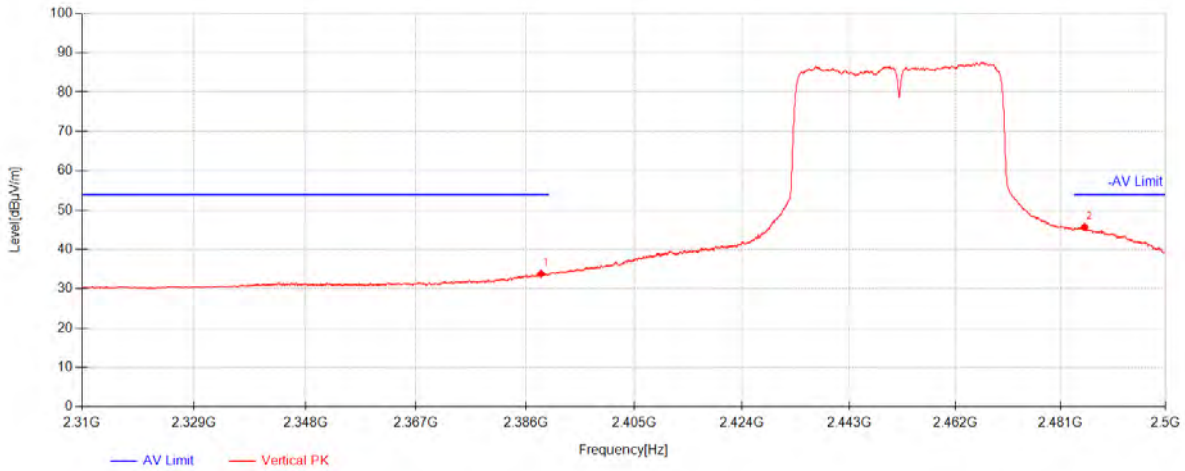


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802.11n40_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6933	30.41	26.99	-23.57	33.83	54.00	20.17	152	263	Vertical
2	2485.36	41.97	27.26	-23.54	45.68	54.00	8.32	152	263	Vertical

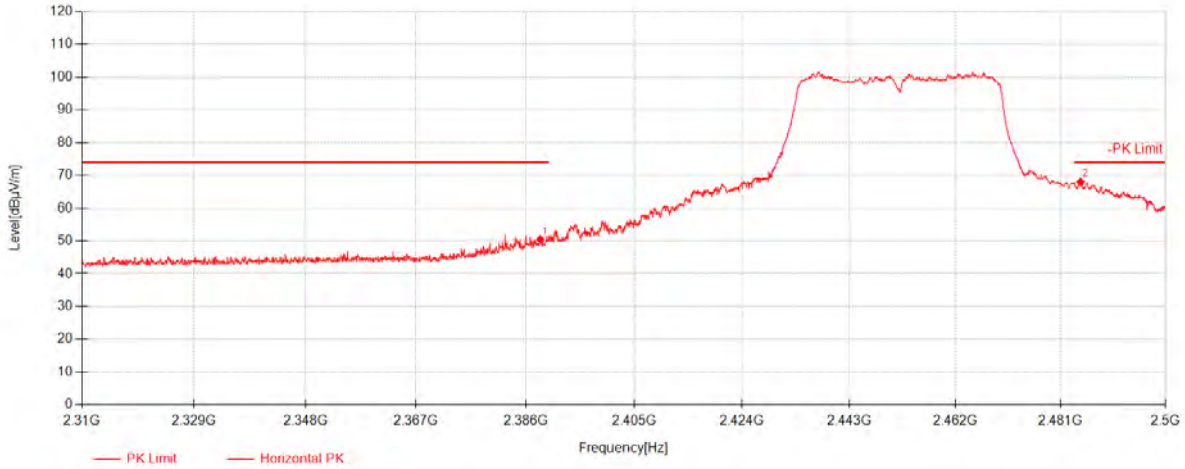


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802.11n40_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.5633	47.08	26.99	-23.57	50.50	74.00	23.50	269	356	Horizontal
2	2484.64	64.29	27.26	-23.54	68.00	74.00	6.00	269	356	Horizontal

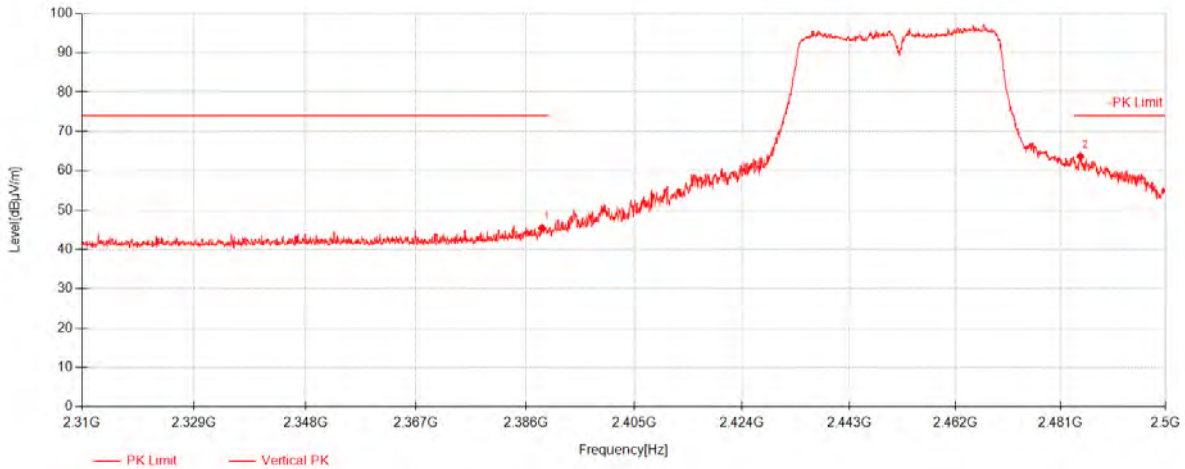


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802.11n40_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.8667	42.07	26.99	-23.57	45.49	74.00	28.51	152	263	Vertical
2	2484.58	59.95	27.26	-23.54	63.66	74.00	10.34	152	263	Vertical

Remark:

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

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB}):$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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