

Report No.: SEWM2304000111RG04
 Rev.: 01
 Page: 1 of 112



TEST REPORT

Application No.: SEWM2304000111RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
EUT Description: Smart Phone
Model No.: U680AA, U680AC
FCC ID: XD6U680AA
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/20
Date of Test: 2023/05/10 to 2023/06/06
Date of Issue: 2023/06/07

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		2023/06/07		Original

Prepared By		 <hr/> (Tizy Song) / Test Engineer
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 C63.10-2020 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:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province

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
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3.4 General Description of EUT

EUT Description:	Smart Phone	
Model No.:	U680AA, U680AC	
Hardware Version:	V1.0	
Software Version:	U680AAV01.02.10	
IMEI:	RF Conducted	861745060000385
	RSE & AC power line	861745060008388
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 type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain:	-0.6dBi(Ant2)	
	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	101.0kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.70
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 Integrated Antenna and no consideration of replacement. The best case gain of the antenna is -0.6dBi(Ant2).*</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>



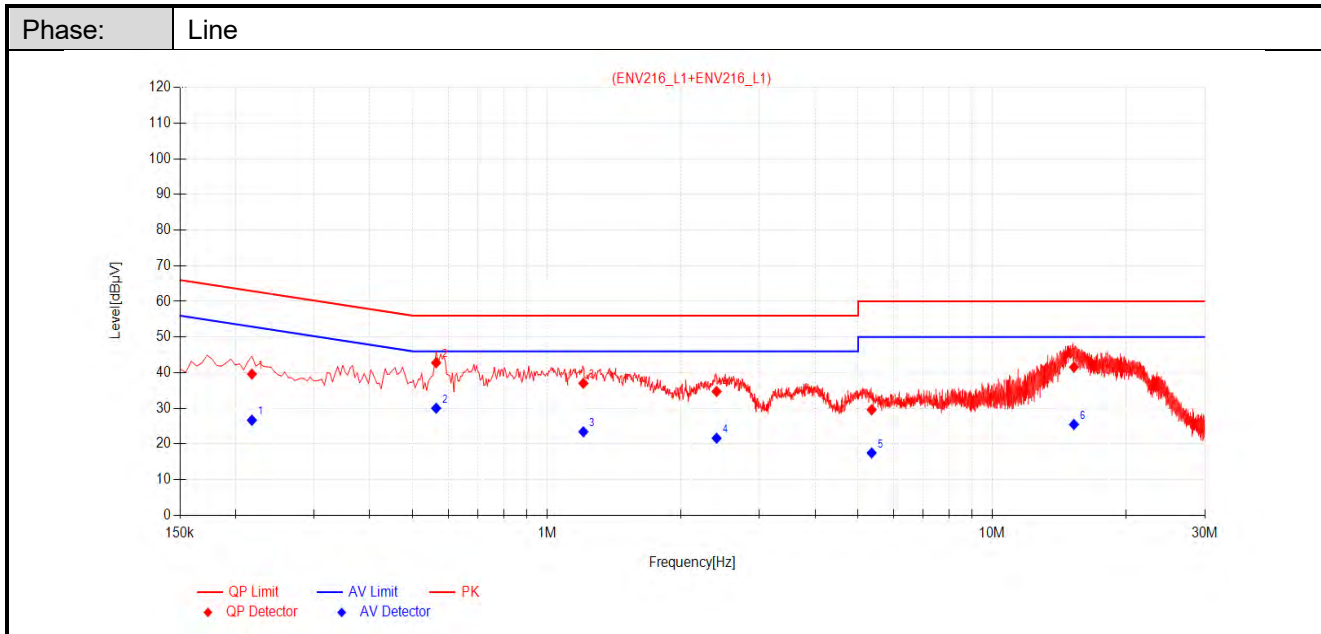
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Measurement Data

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.



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	0.2175	11.65	27.97	39.62	62.91	23.29	15.03	26.68	52.91	26.23	PASS
2	0.5640	11.63	31.15	42.78	56.00	13.22	18.40	30.03	46.00	15.97	PASS
3	1.2075	11.73	25.30	37.03	56.00	18.97	11.70	23.43	46.00	22.57	PASS
4	2.4045	11.73	23.00	34.73	56.00	21.27	9.90	21.63	46.00	24.37	PASS
5	5.3610	11.82	17.79	29.61	60.00	30.39	5.69	17.51	50.00	32.49	PASS
6	15.2565	11.92	29.64	41.56	60.00	18.44	13.56	25.48	50.00	24.52	PASS

Remark:

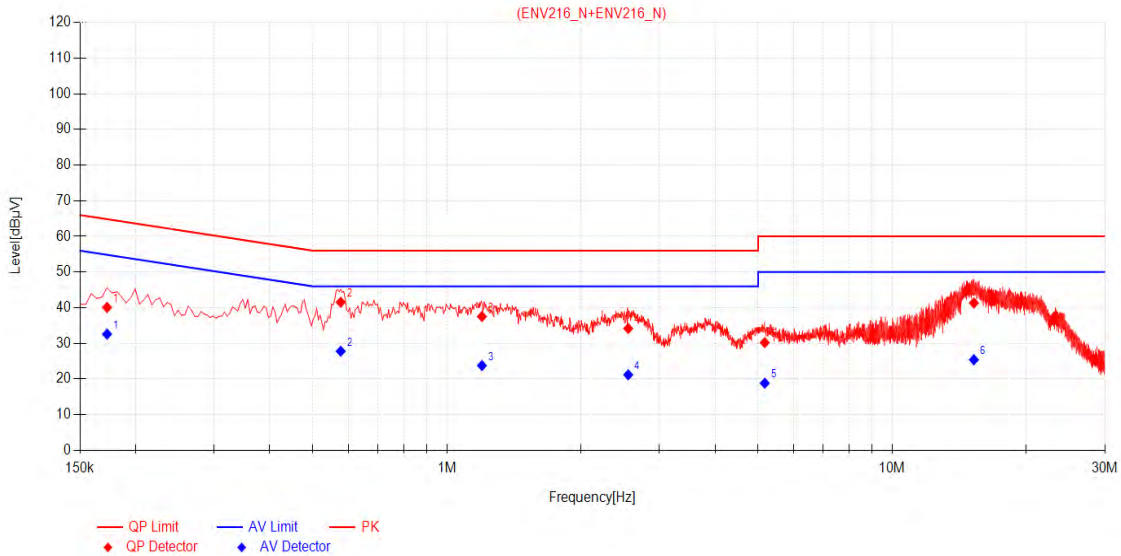
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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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	0.1725	11.75	28.33	40.08	64.84	24.76	20.83	32.58	54.84	22.26	PASS
2	0.5775	11.62	29.93	41.55	56.00	14.45	16.17	27.79	46.00	18.21	PASS
3	1.1985	11.73	25.80	37.53	56.00	18.47	12.05	23.78	46.00	22.22	PASS
4	2.5530	11.74	22.43	34.17	56.00	21.83	9.43	21.17	46.00	24.83	PASS
5	5.1720	11.82	18.39	30.21	60.00	29.79	7.01	18.83	50.00	31.17	PASS
6	15.2520	11.92	29.39	41.31	60.00	18.69	13.48	25.40	50.00	24.60	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading [dBµV] + Factor (Lisn factor [dB] + cable loss [dB]).
3. 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:

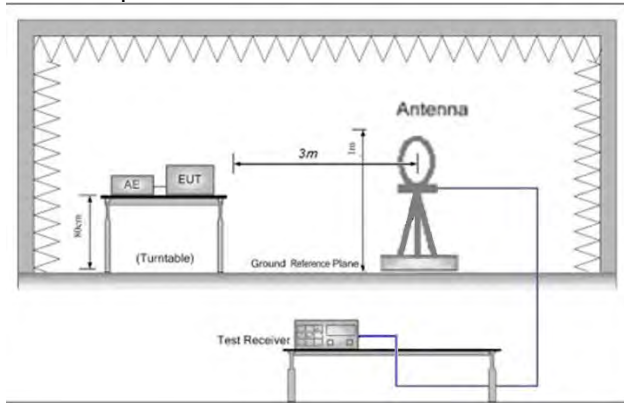


Figure 1. Below 30MHz

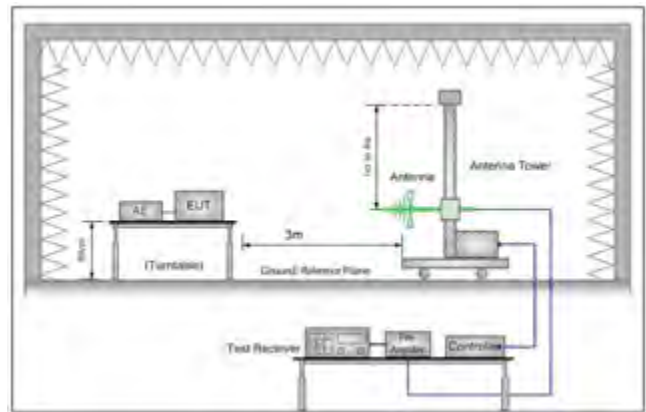


Figure 2. 30MHz to 1GHz

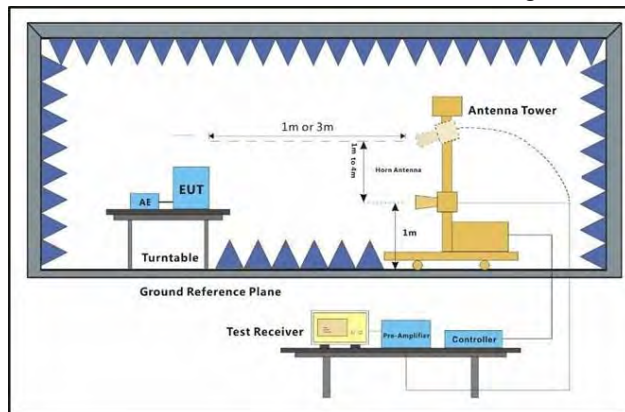


Figure 3. Above 1 GHz

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



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	<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	



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:

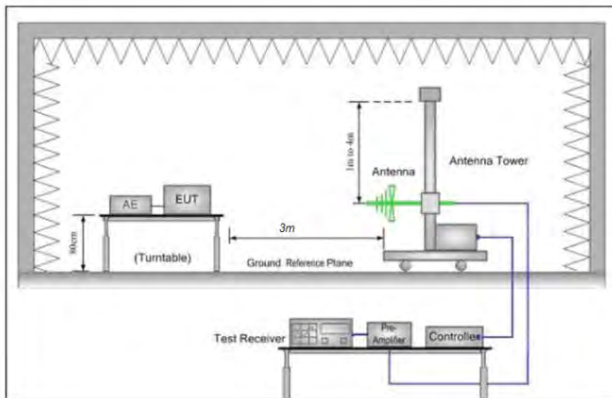


Figure 1. 30MHz to 1GHz

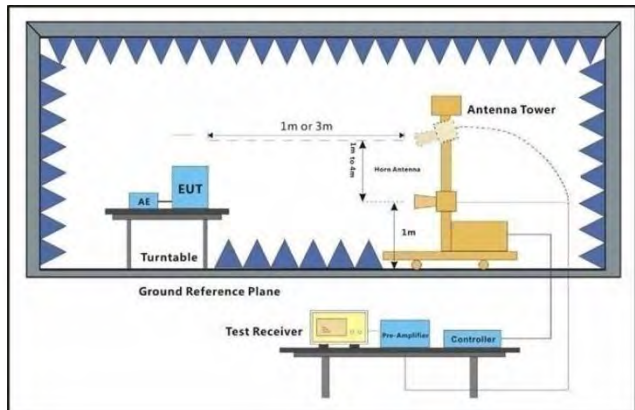


Figure 2. Above 1 GHz



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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
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
				2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
				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
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

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	2022/05/28	2023/05/27
				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	2021/05/14	2023/05/13
				2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
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	Ant2	2412	8.60	2407.44	2416.04	≥0.5	PASS
11b	Ant2	2437	8.12	2432.92	2441.04	≥0.5	PASS
11b	Ant2	2462	8.16	2457.92	2466.08	≥0.5	PASS
11g	Ant2	2412	16.44	2403.76	2420.20	≥0.5	PASS
11g	Ant2	2437	16.40	2428.80	2445.20	≥0.5	PASS
11g	Ant2	2462	16.52	2453.76	2470.28	≥0.5	PASS
11n20SISO	Ant2	2412	17.72	2403.12	2420.84	≥0.5	PASS
11n20SISO	Ant2	2437	17.64	2428.16	2445.80	≥0.5	PASS
11n20SISO	Ant2	2462	17.68	2453.16	2470.84	≥0.5	PASS
11n40SISO	Ant2	2422	36.48	2403.76	2440.24	≥0.5	PASS
11n40SISO	Ant2	2437	35.28	2419.72	2455.00	≥0.5	PASS
11n40SISO	Ant2	2452	36.48	2433.76	2470.24	≥0.5	PASS



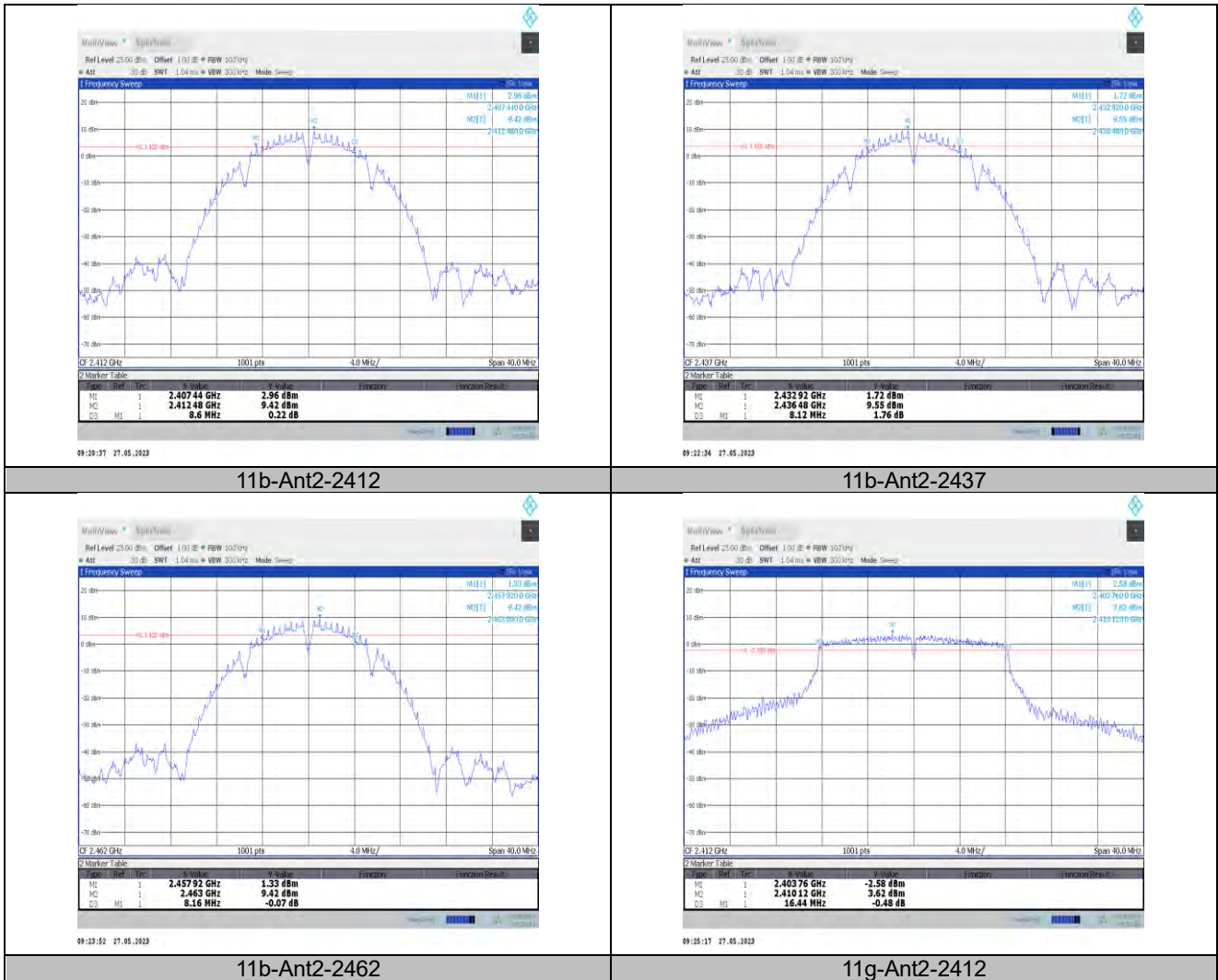
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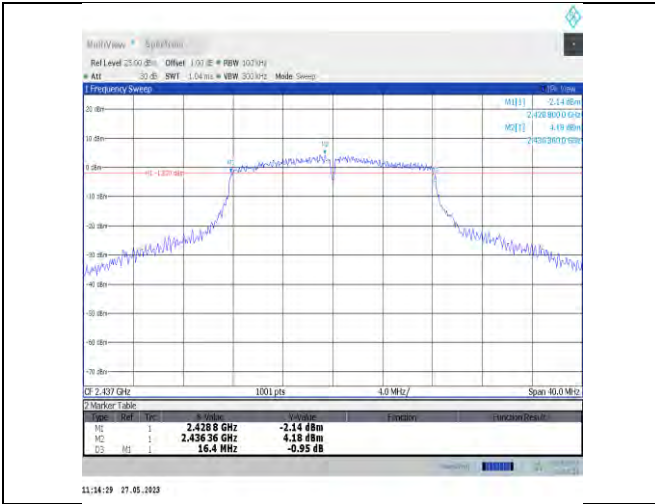
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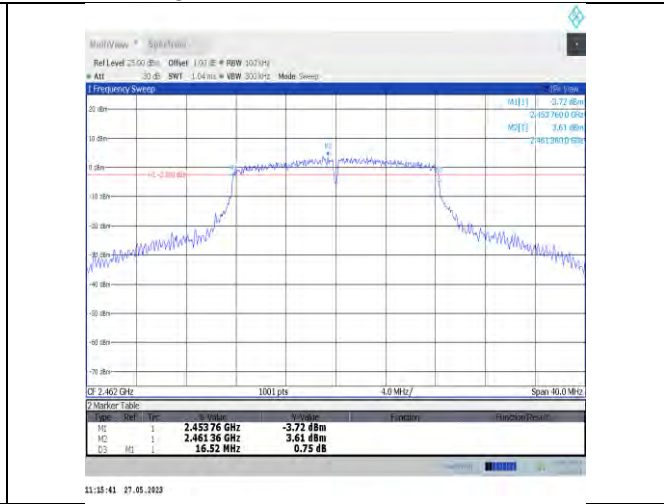
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Test Graphs

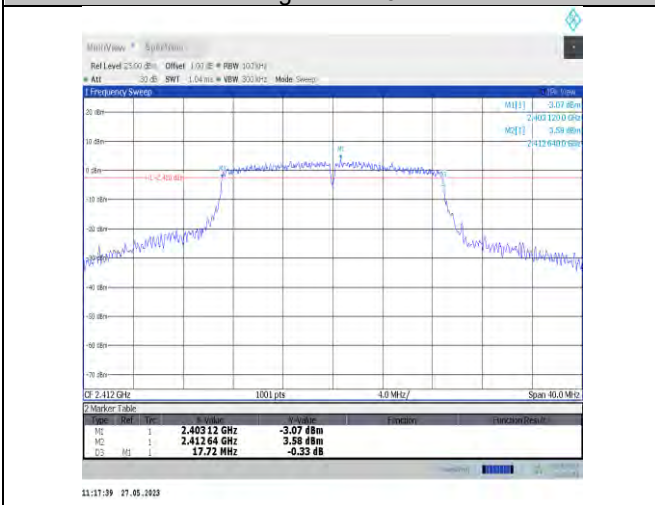




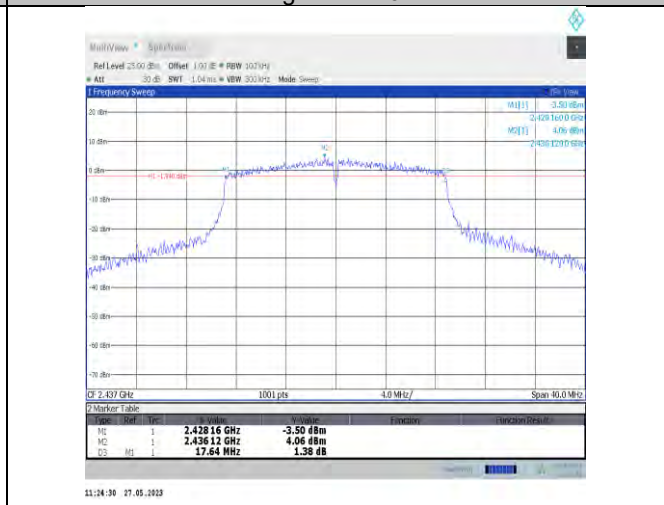
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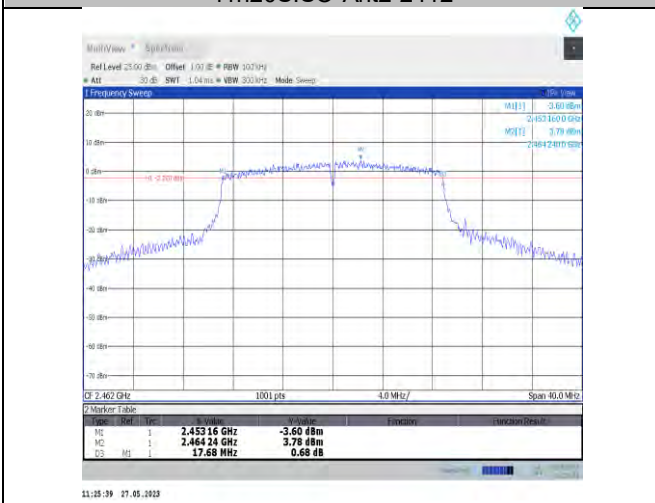
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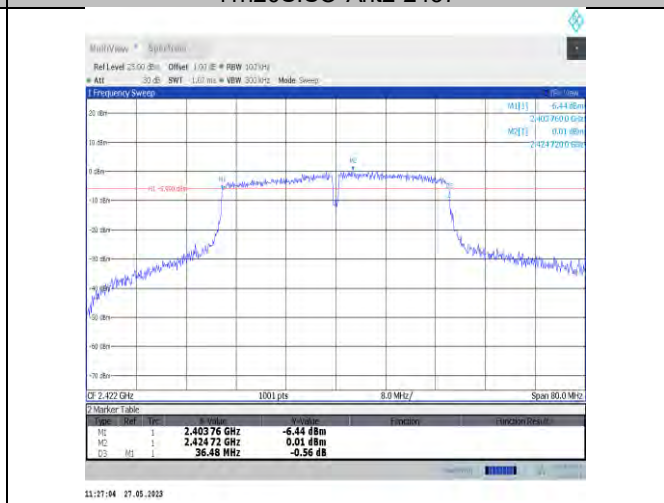
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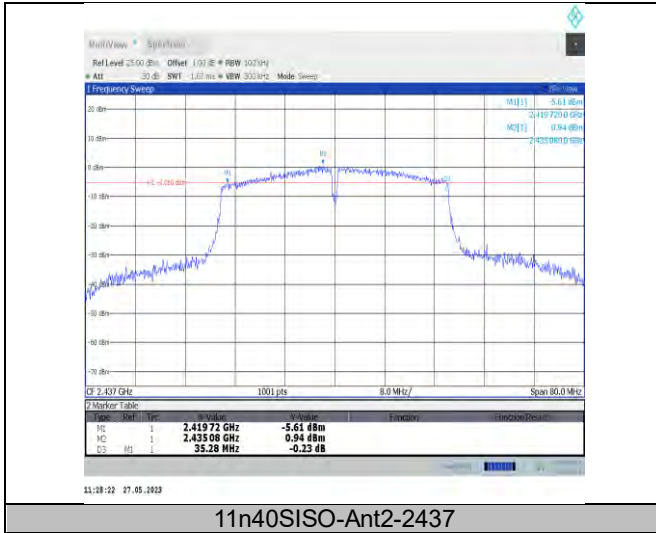


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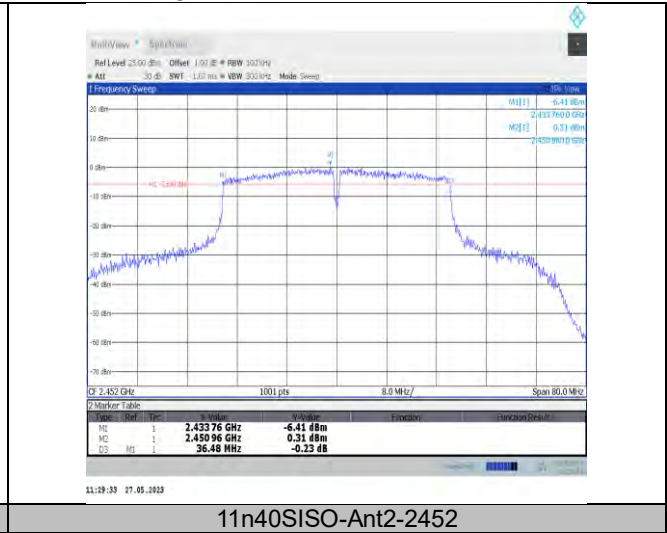


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11n40SISO-Ant2-2437



11n40SISO-Ant2-2452



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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant2	2412	13.097	2405.3555	2418.4522	For Report Purpose
11b	Ant2	2437	12.818	2430.6463	2443.4647	
11b	Ant2	2462	13.056	2455.5359	2468.5923	
11g	Ant2	2412	17.255	2403.2651	2420.5197	
11g	Ant2	2437	17.122	2428.4911	2445.6131	
11g	Ant2	2462	17.234	2453.4340	2470.6677	
11n20SISO	Ant2	2412	18.229	2402.8028	2421.0313	
11n20SISO	Ant2	2437	18.019	2428.0412	2446.0604	
11n20SISO	Ant2	2462	18.169	2452.9640	2471.1326	
11n40SISO	Ant2	2422	36.779	2403.7293	2440.5081	
11n40SISO	Ant2	2437	36.19	2419.0487	2455.2391	
11n40SISO	Ant2	2452	36.722	2433.6554	2470.3774	



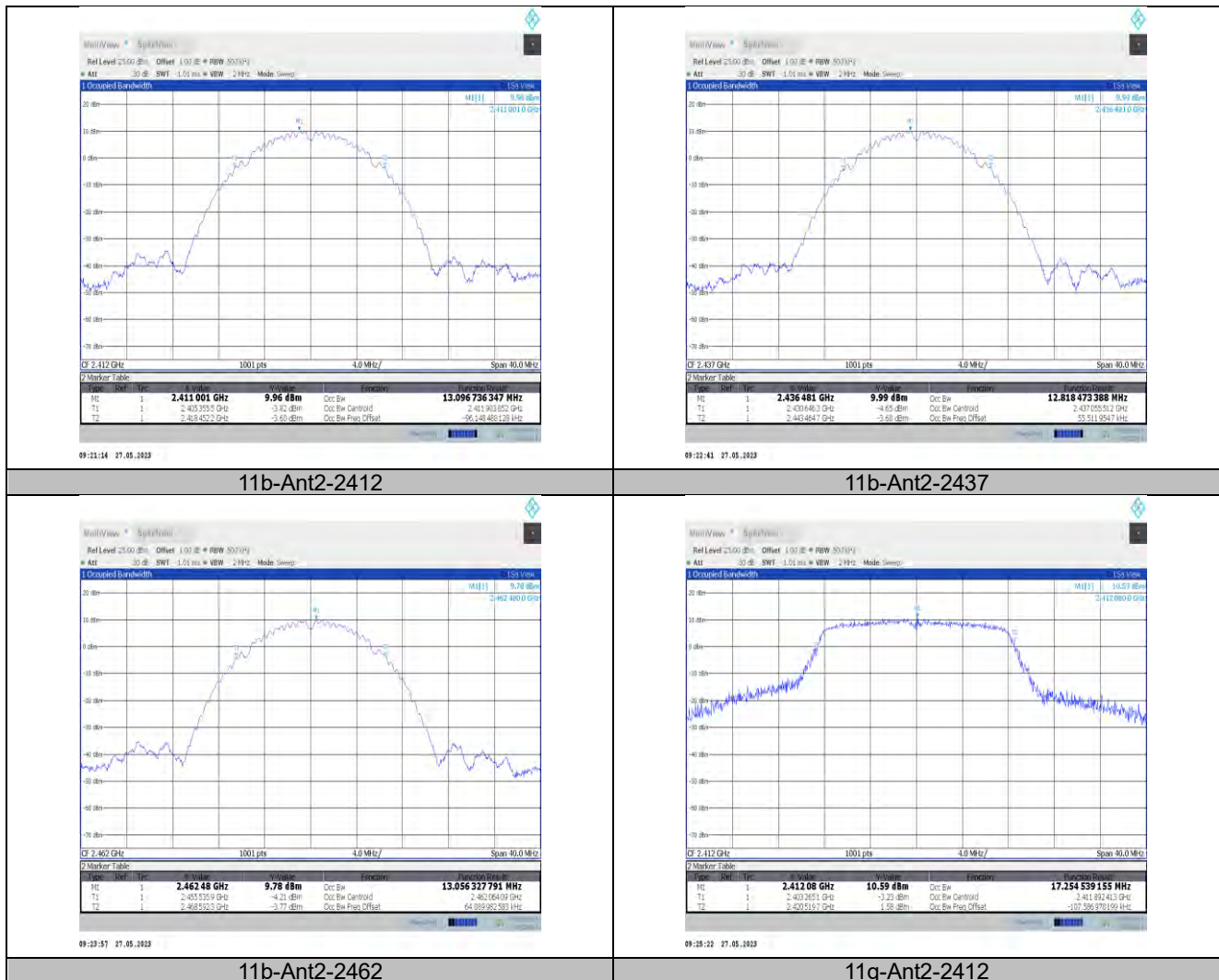
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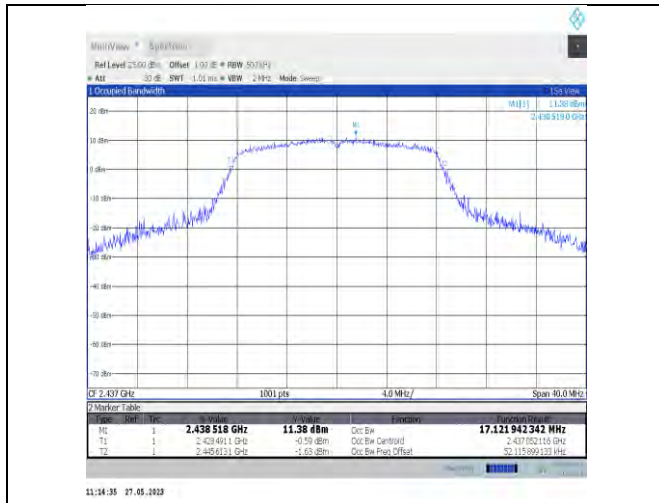
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Test Graphs

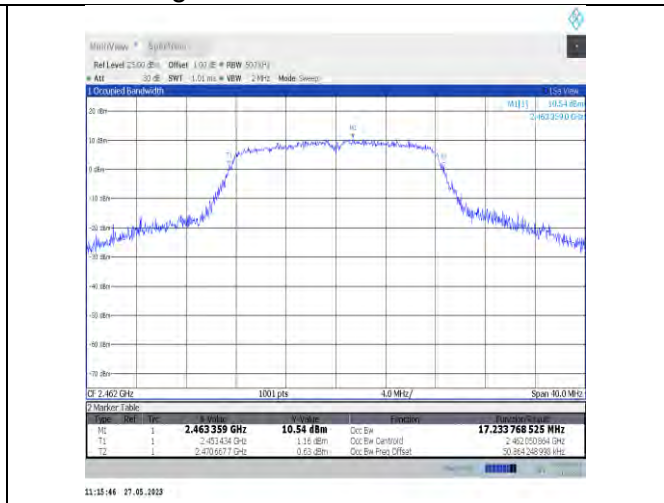


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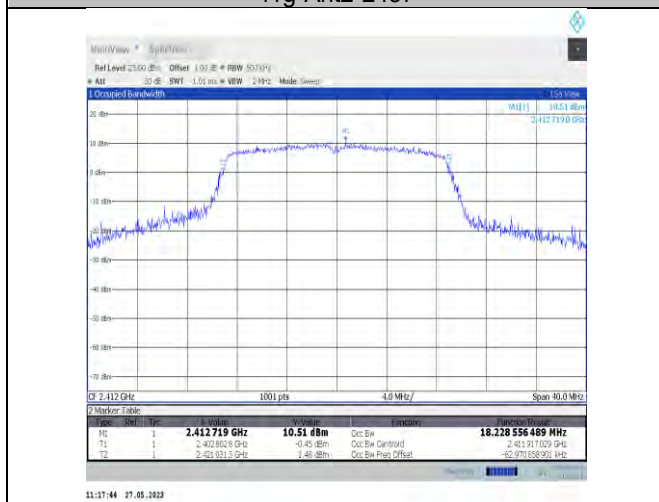
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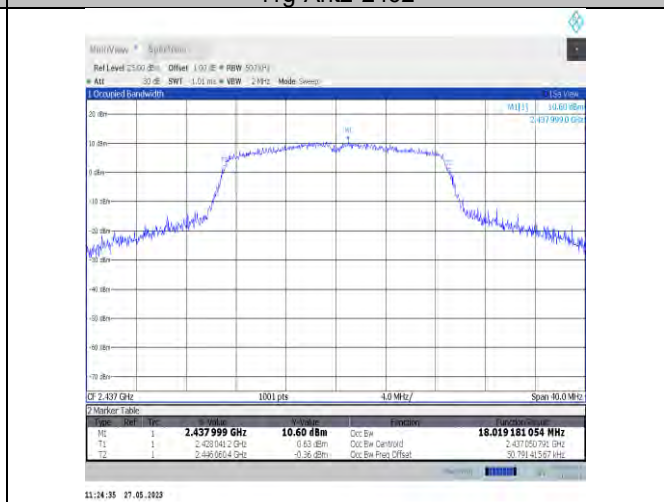
11g-Ant2-2437



11g-Ant2-2462



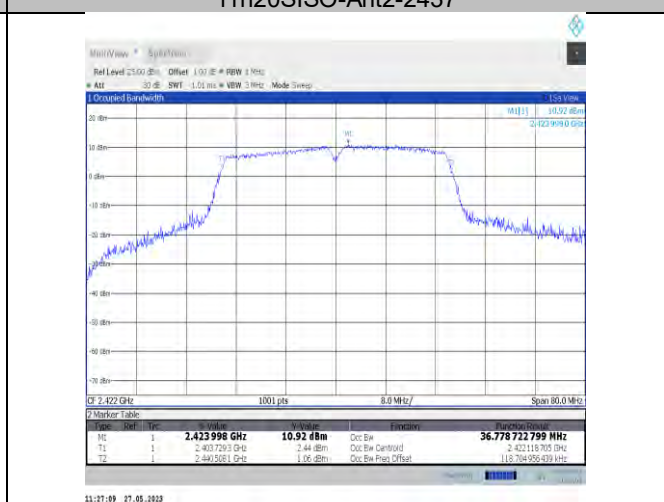
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11n20SISO-Ant2-2437



11n20SISO-Ant2-2462

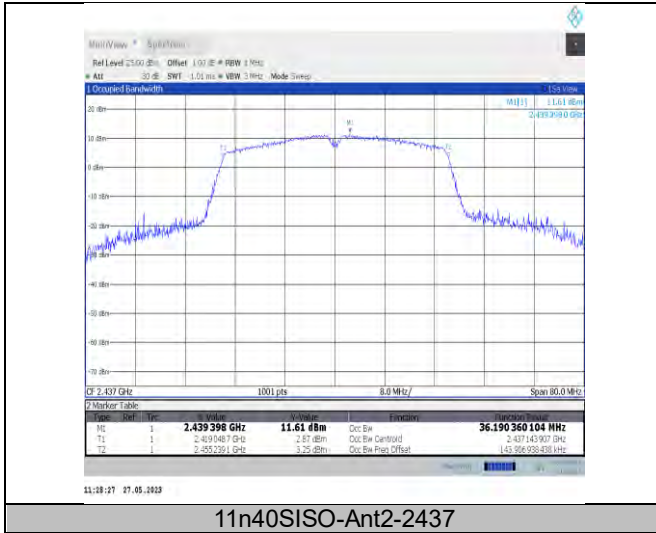


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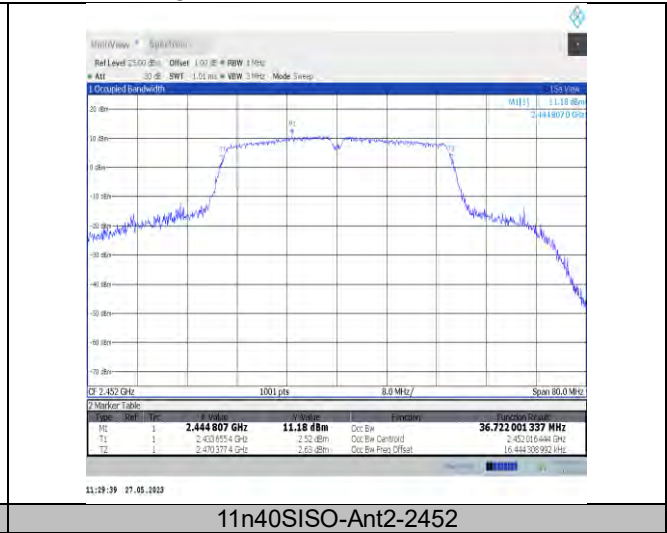


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11n40SISO-Ant2-2437



11n40SISO-Ant2-2452



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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant2	2412	20.03	≤30.00	PASS
11b	Ant2	2437	20.1	≤30.00	PASS
11b	Ant2	2462	20.01	≤30.00	PASS
11g	Ant2	2412	24.01	≤30.00	PASS
11g	Ant2	2437	24.03	≤30.00	PASS
11g	Ant2	2462	24.03	≤30.00	PASS
11n20SISO	Ant2	2412	22.56	≤30.00	PASS
11n20SISO	Ant2	2437	22.43	≤30.00	PASS
11n20SISO	Ant2	2462	22.23	≤30.00	PASS
11n40SISO	Ant2	2422	20.25	≤30.00	PASS
11n40SISO	Ant2	2437	20.26	≤30.00	PASS
11n40SISO	Ant2	2452	20.32	≤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	Ant2	2412	-3.91	≤8.00	PASS
11b	Ant2	2437	-3.99	≤8.00	PASS
11b	Ant2	2462	-4.21	≤8.00	PASS
11g	Ant2	2412	-7.8	≤8.00	PASS
11g	Ant2	2437	-7.32	≤8.00	PASS
11g	Ant2	2462	-7.76	≤8.00	PASS
11n20SISO	Ant2	2412	-7.41	≤8.00	PASS
11n20SISO	Ant2	2437	-7.61	≤8.00	PASS
11n20SISO	Ant2	2462	-6.66	≤8.00	PASS
11n40SISO	Ant2	2422	-11.31	≤8.00	PASS
11n40SISO	Ant2	2437	-10.56	≤8.00	PASS
11n40SISO	Ant2	2452	-11.01	≤8.00	PASS



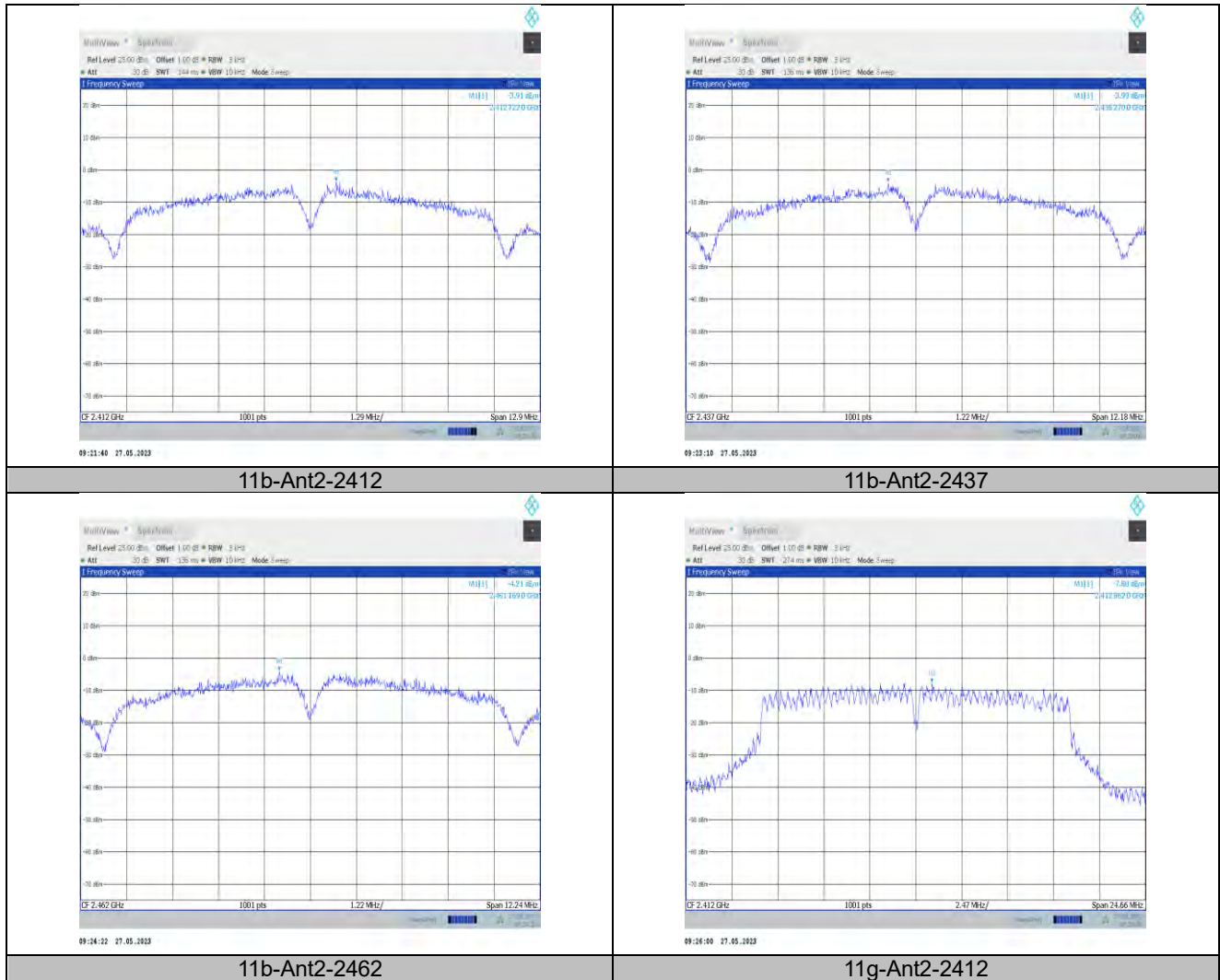
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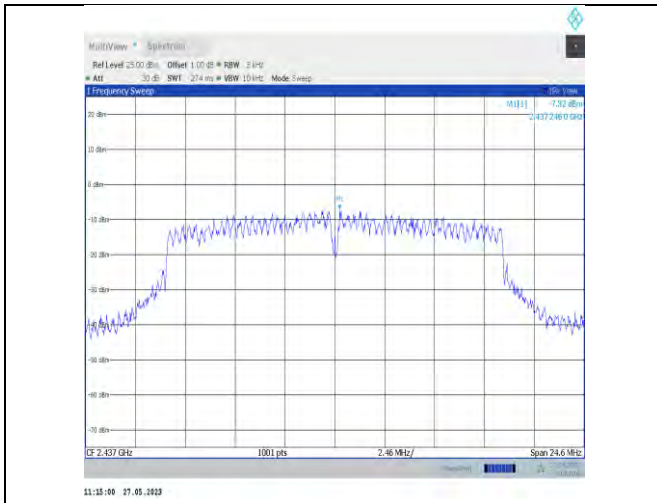
Test Graphs



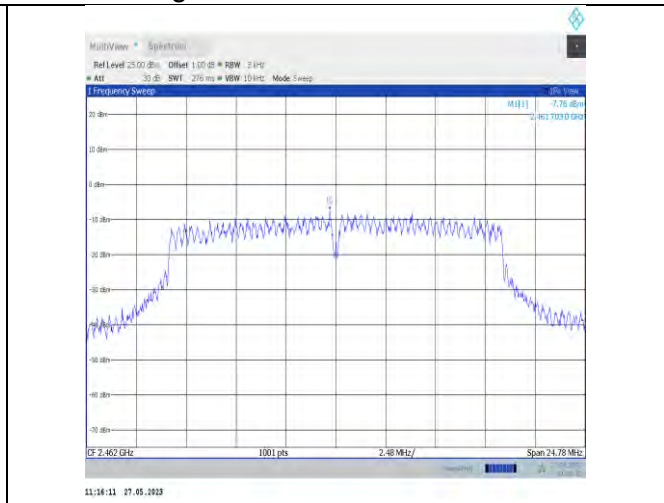
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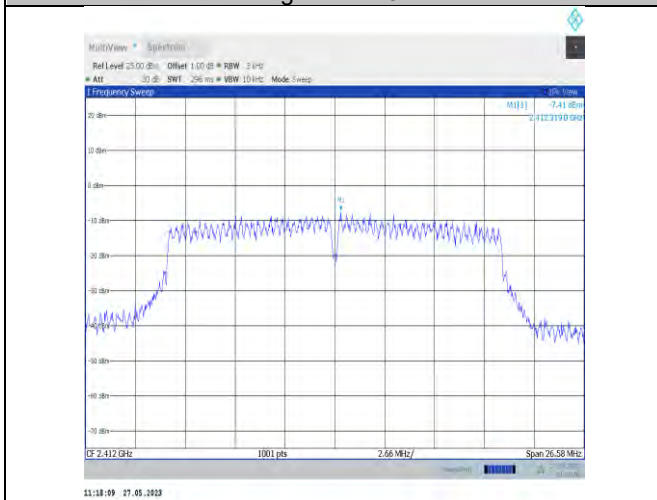
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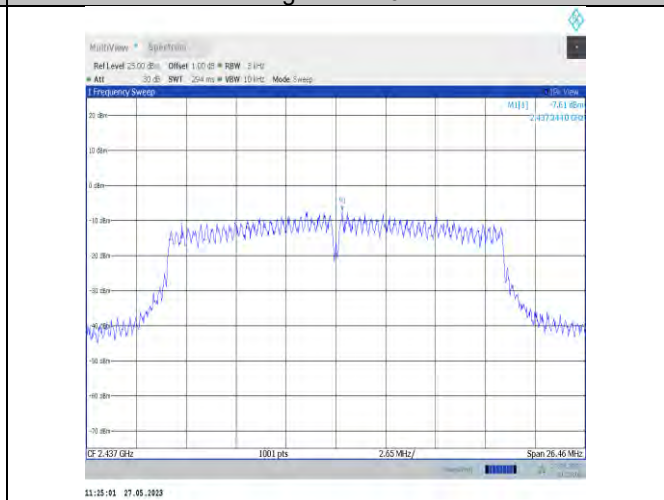
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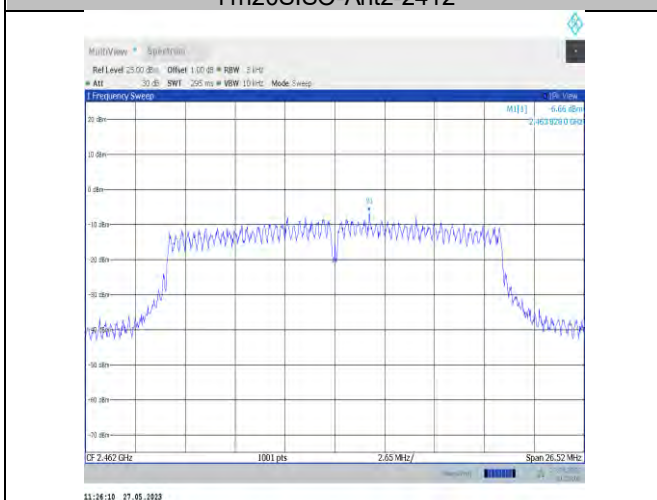
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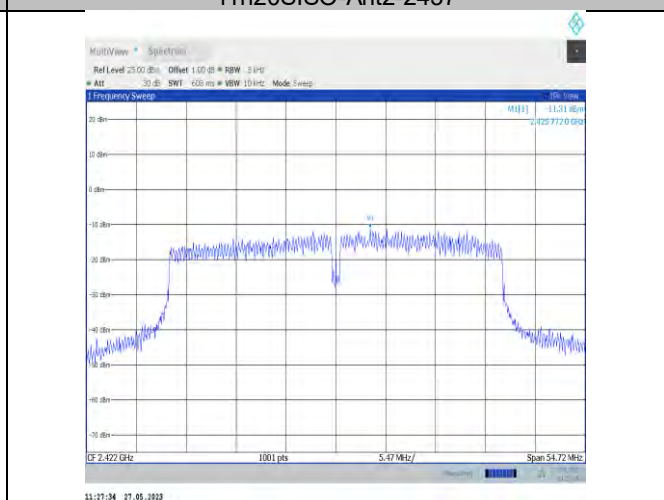
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11n20SISO-Ant2-2437



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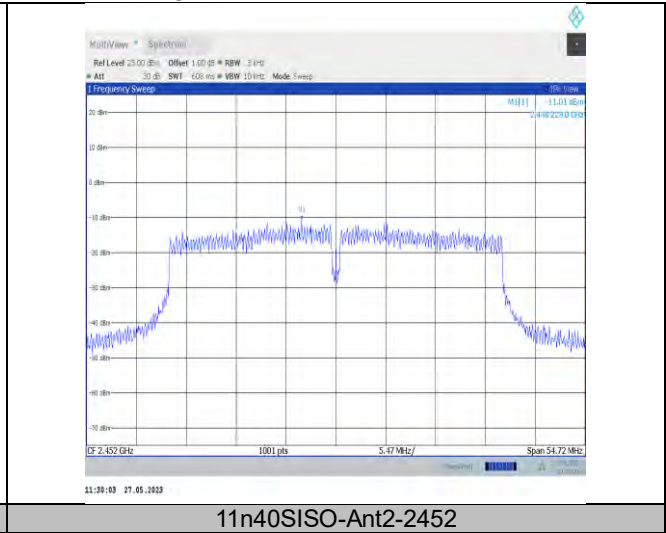
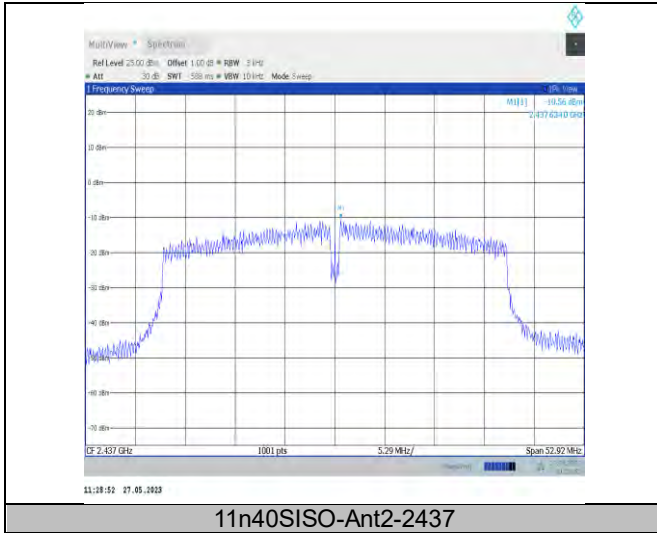
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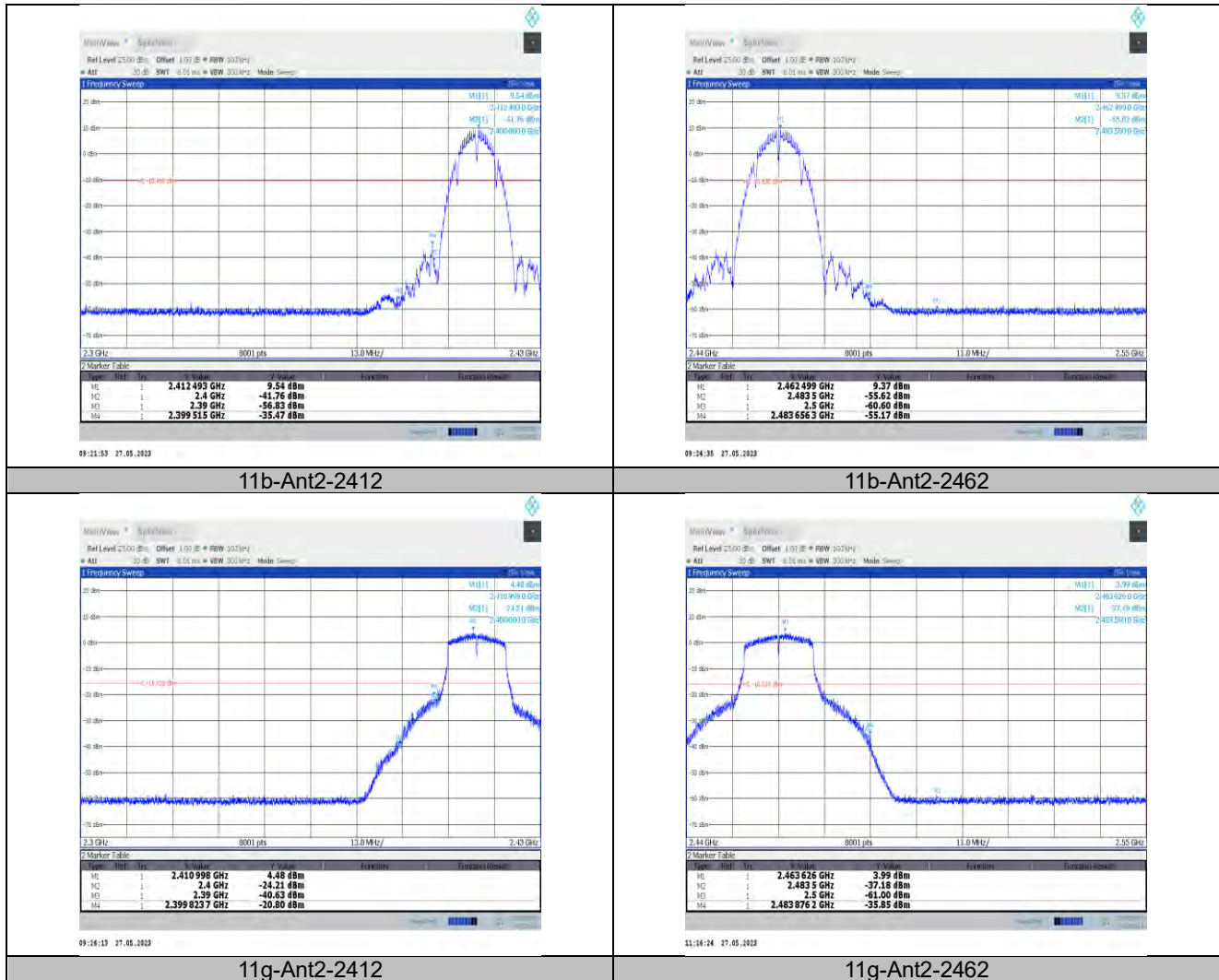
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Band edge measurements

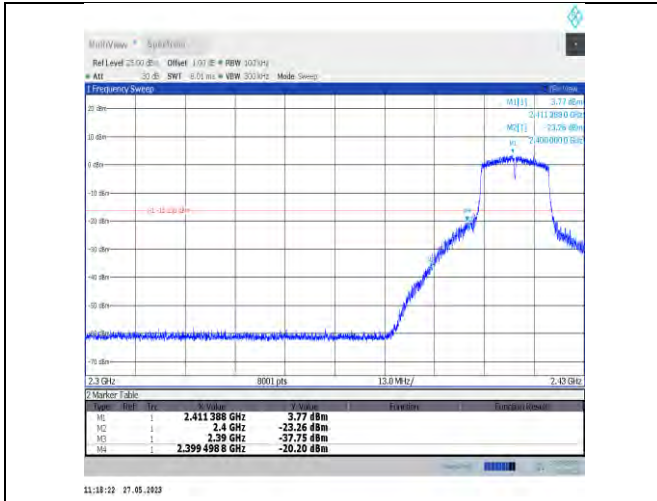
Test Graphs



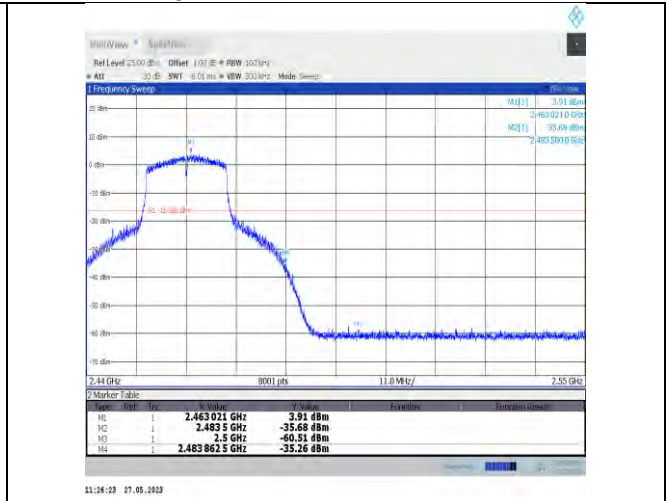
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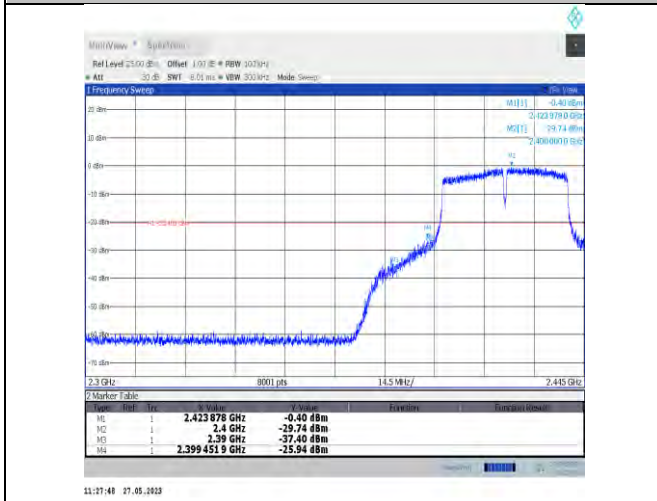
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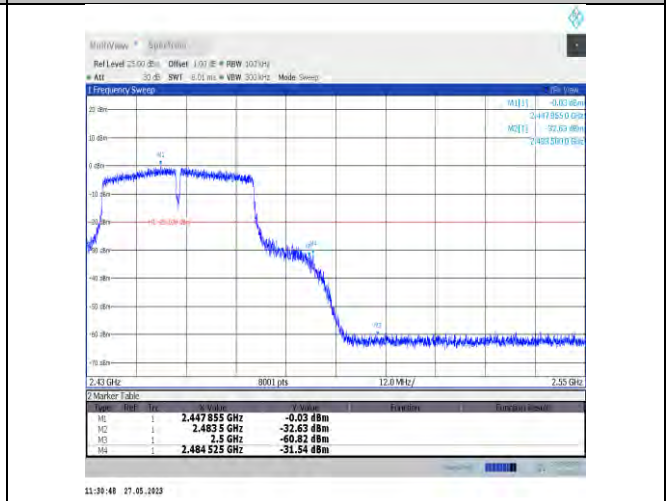
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11n20SISO-Ant2-2462



11n40SISO-Ant2-2422



11n40SISO-Ant2-2452

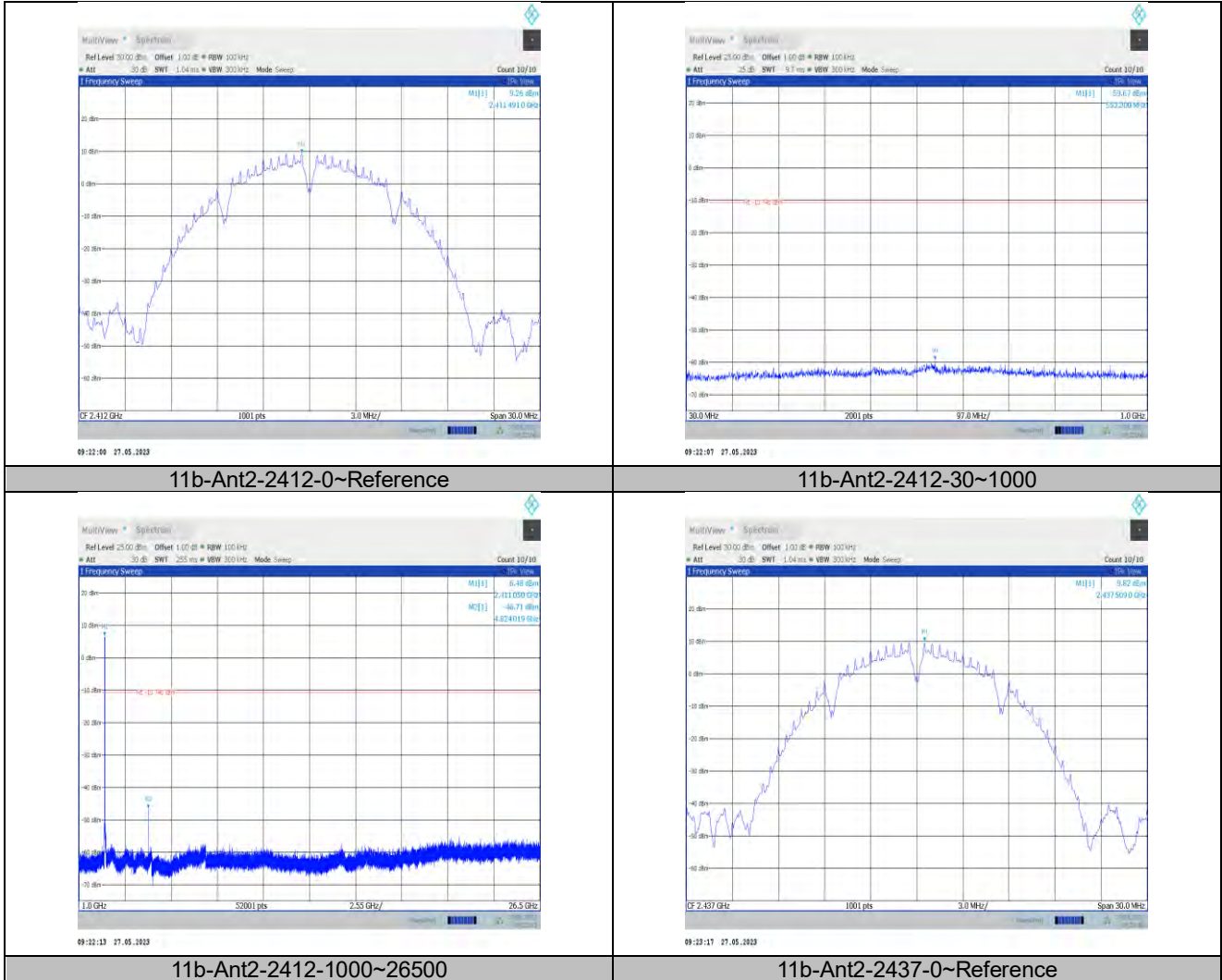


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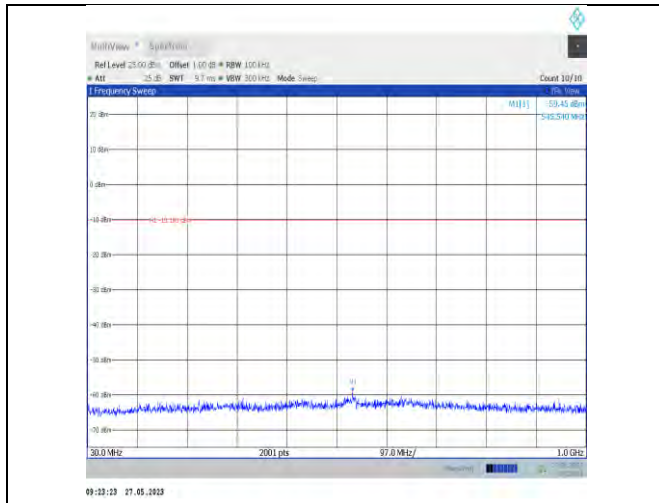
Conducted Spurious Emission

Test Graphs

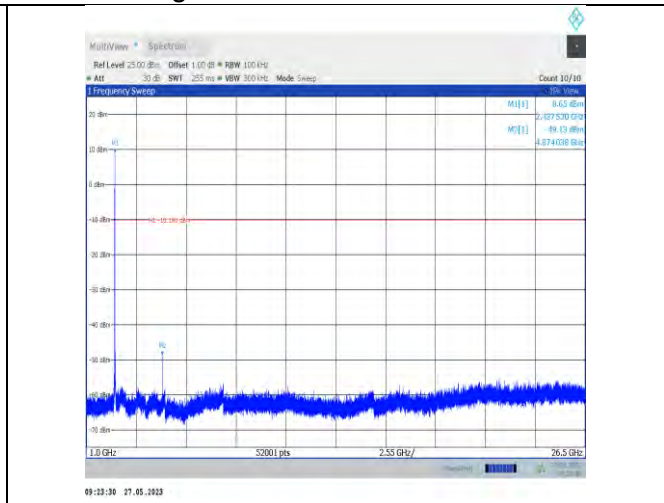


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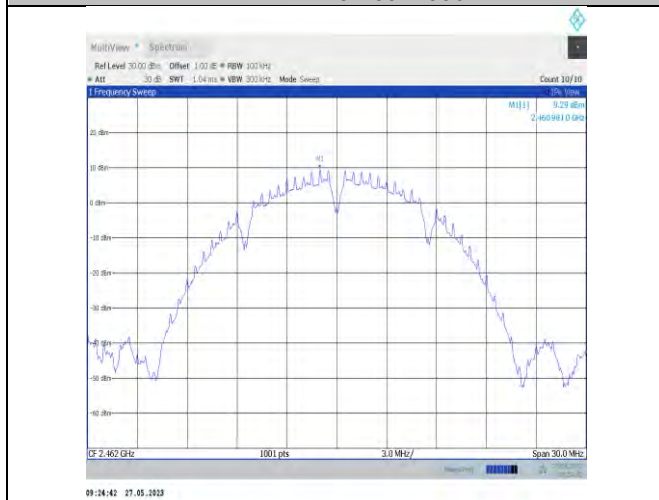
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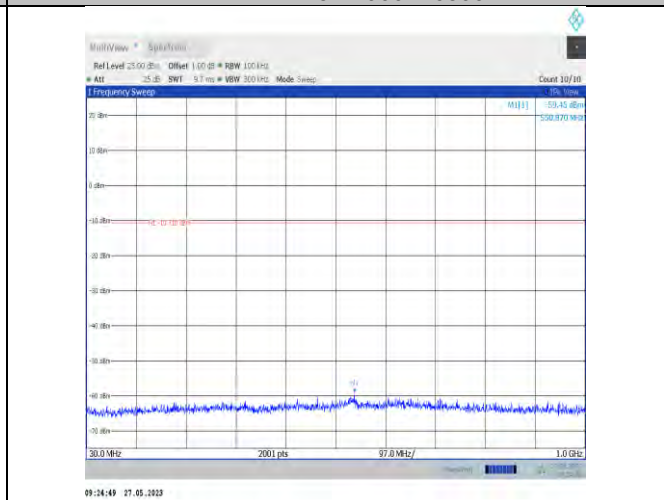
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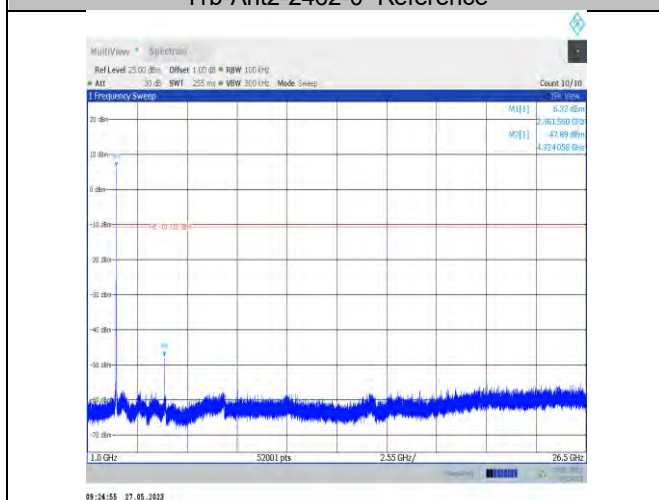
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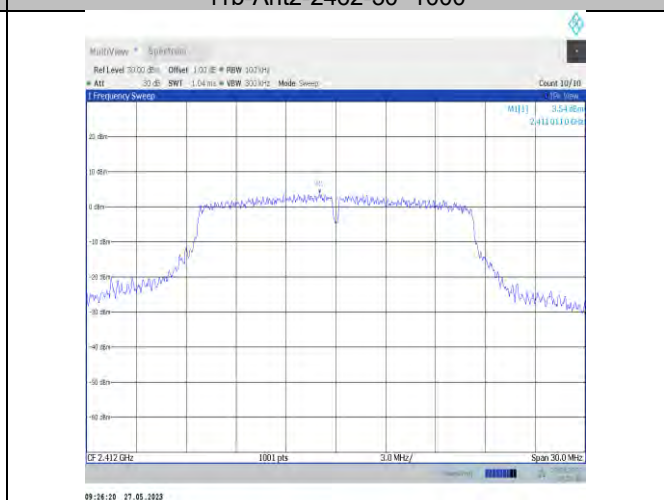
11b-Ant2-2462-0~Reference



11b-Ant2-2462-30~1000



11b-Ant2-2462-1000~26500

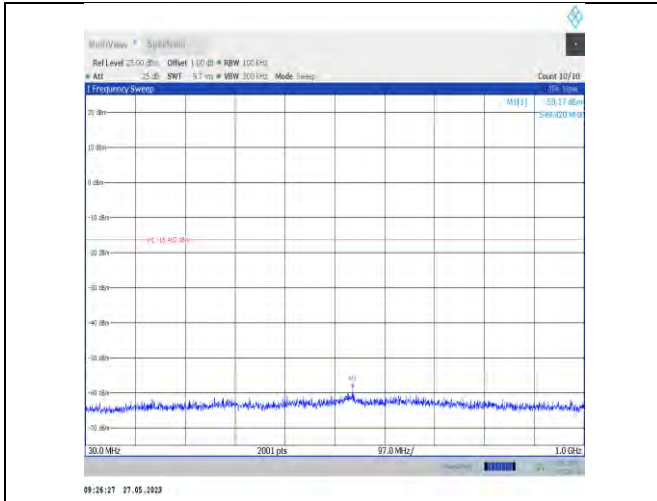


11g-Ant2-2412-0~Reference

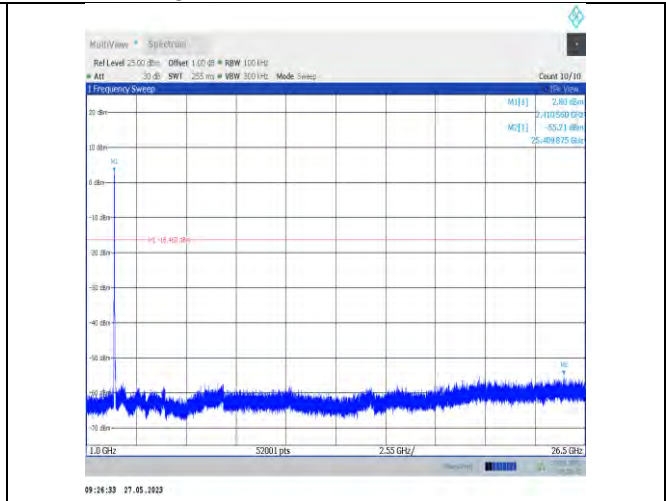


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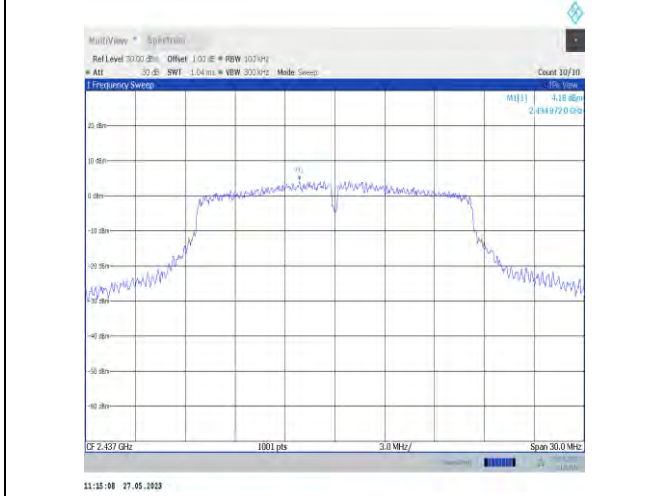
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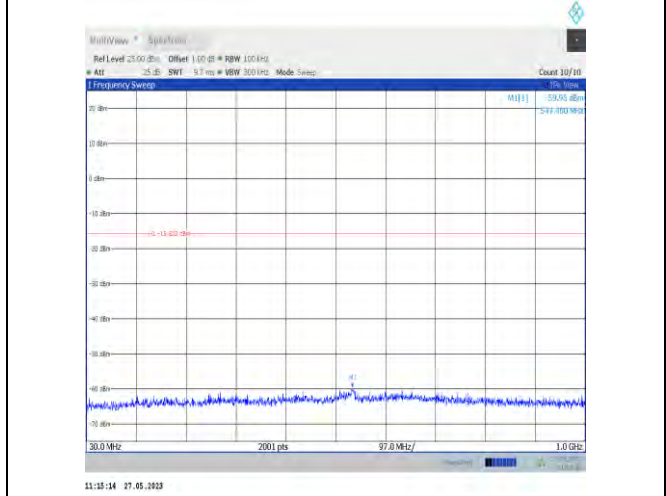
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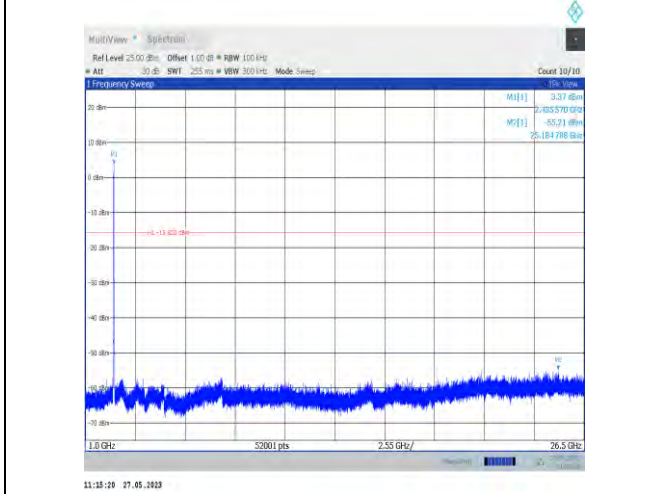
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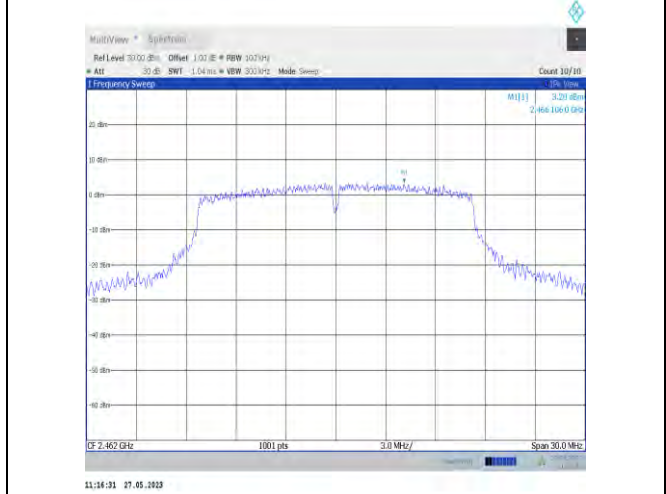
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11g-Ant2-2437-30~1000



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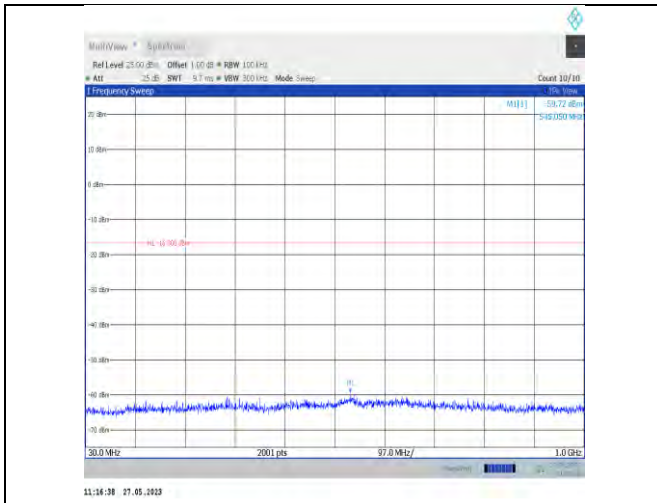


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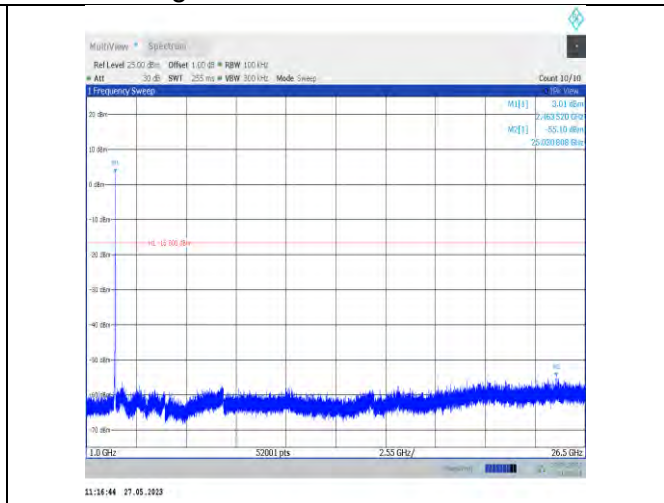


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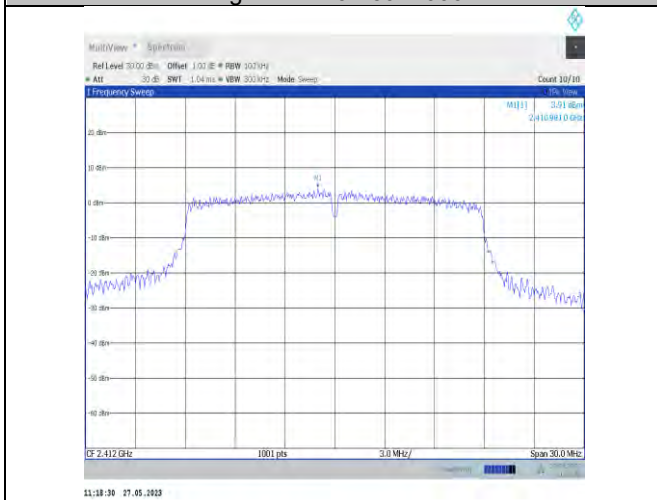
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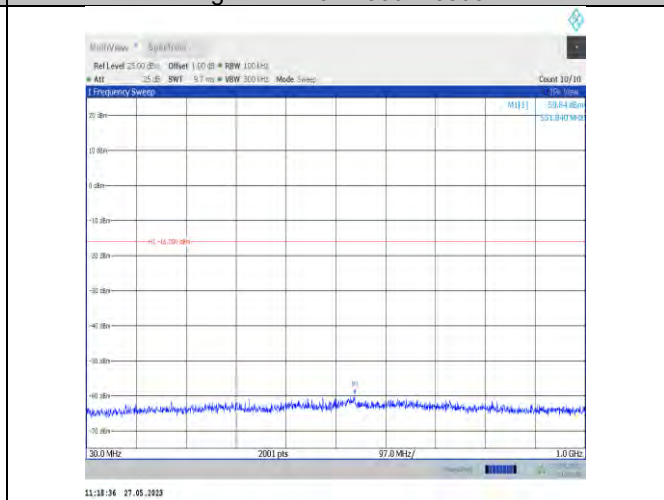
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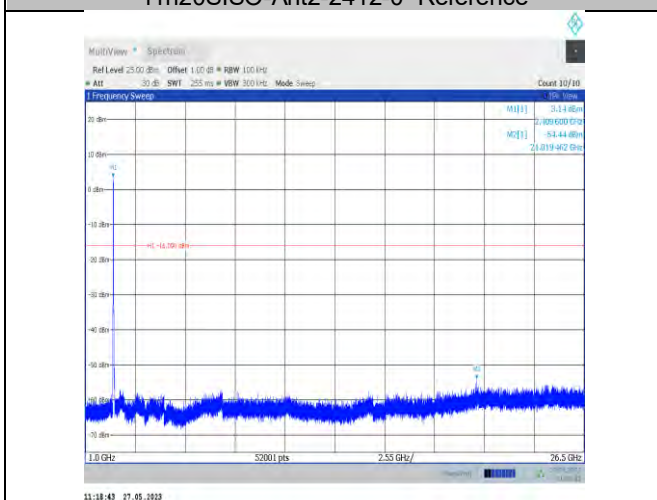
11g-Ant2-2462-1000~26500



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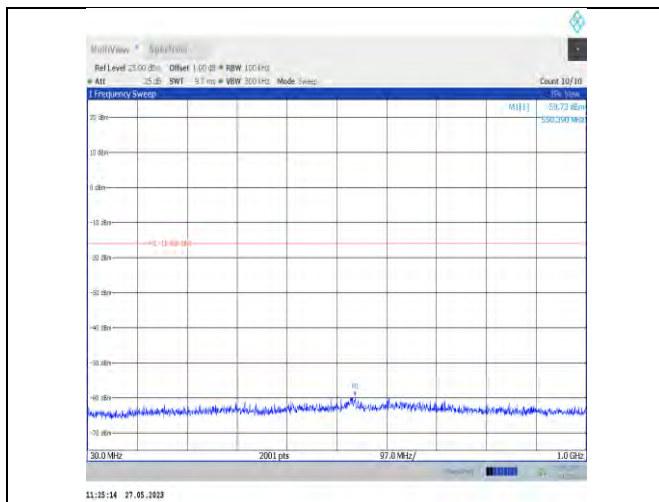


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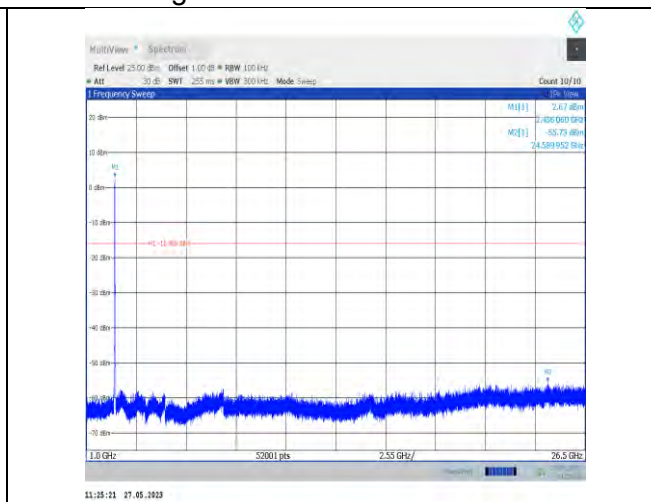


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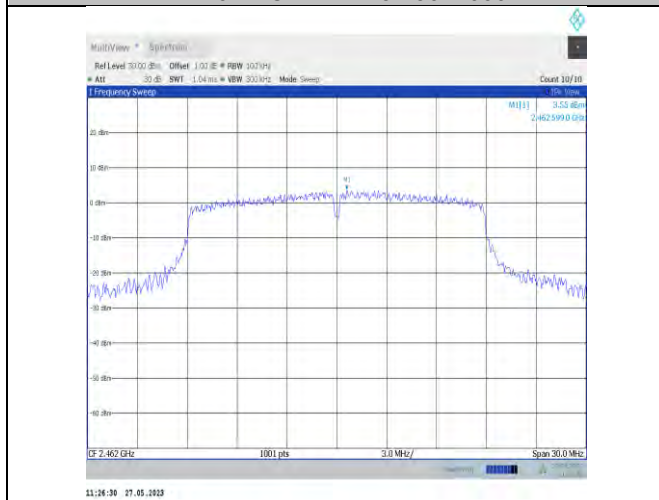
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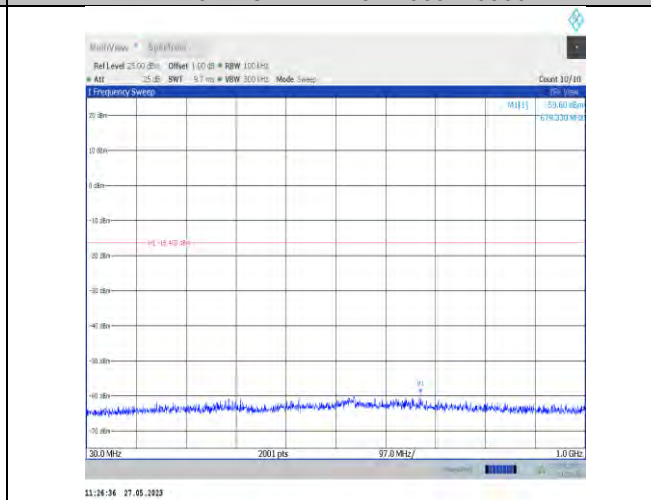
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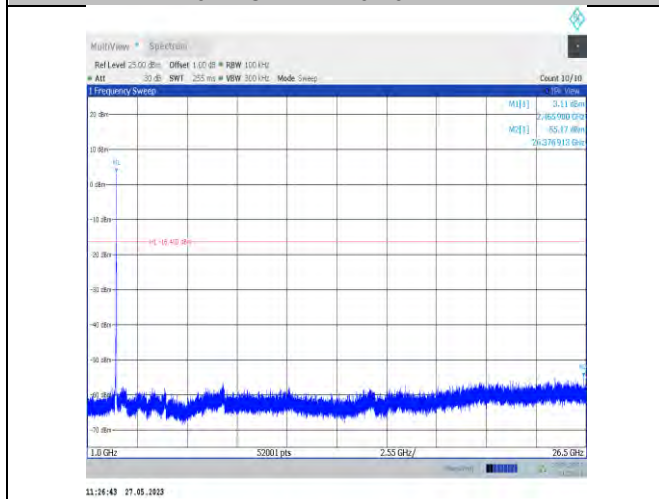
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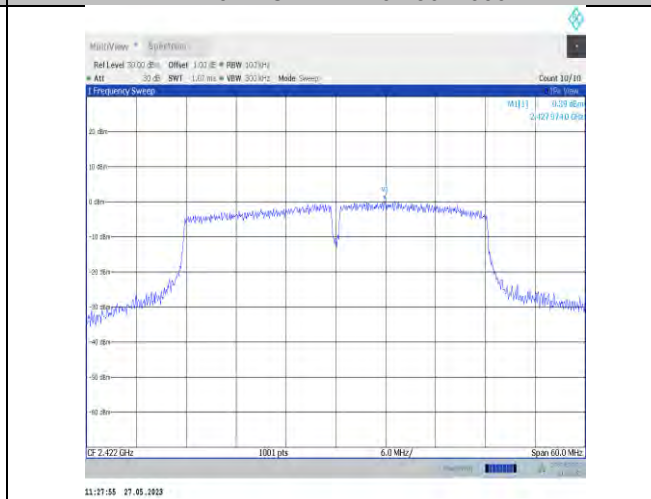
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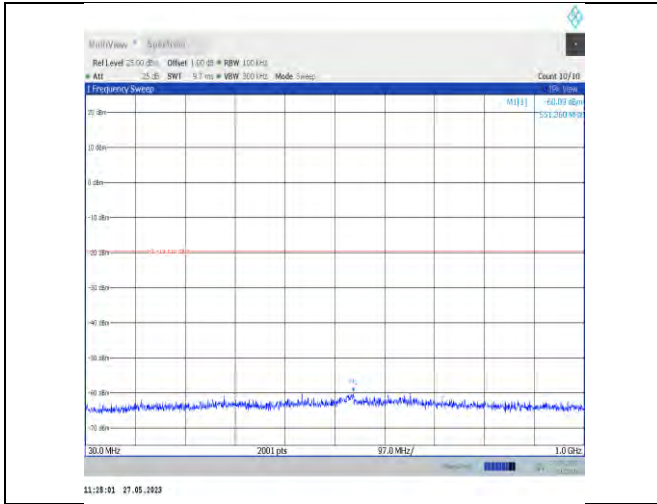
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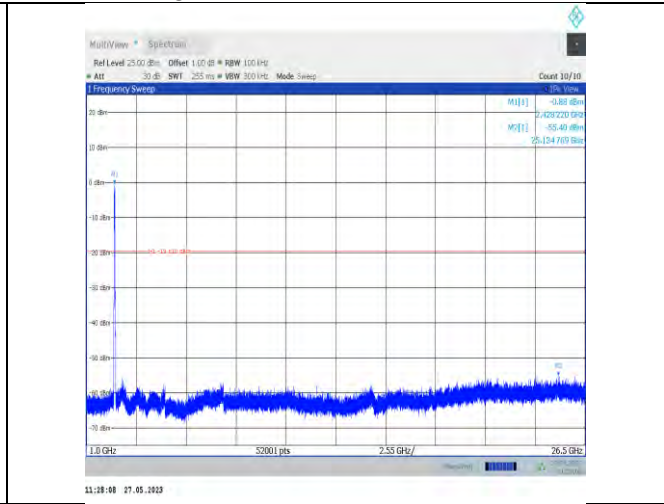
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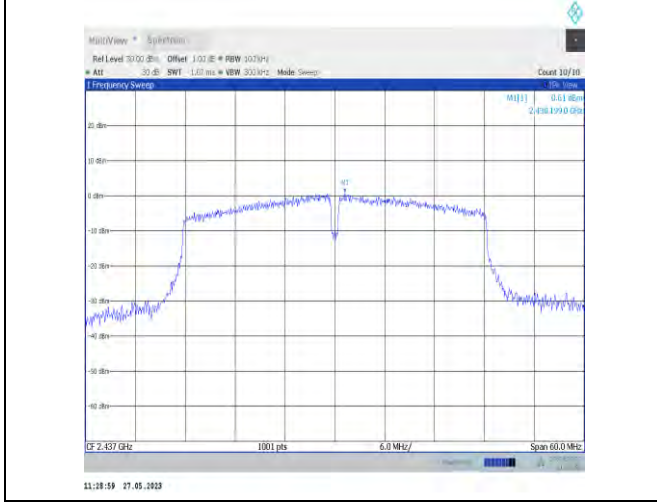
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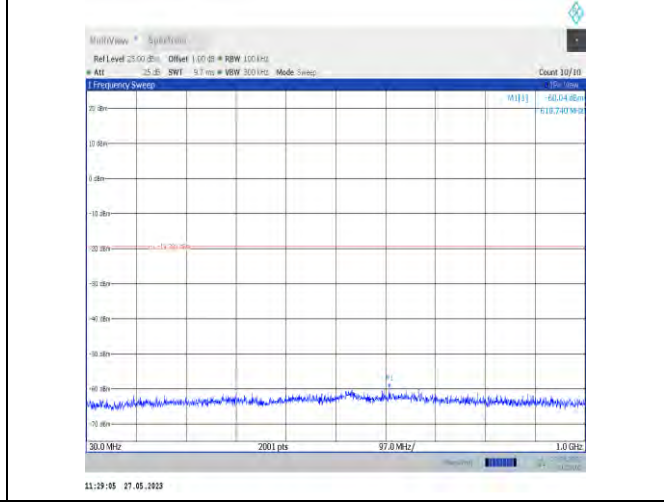
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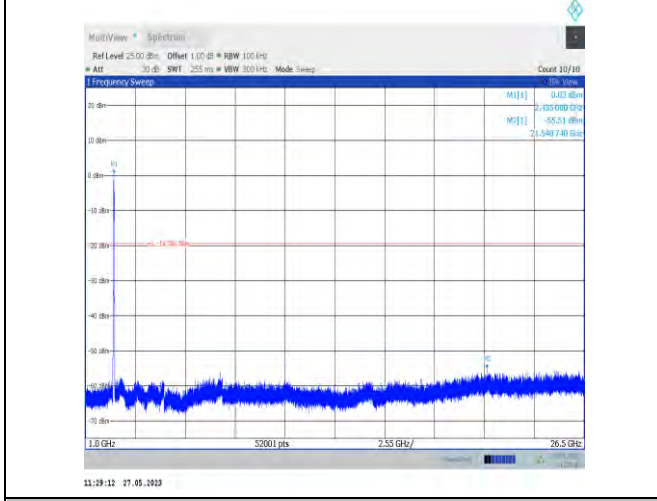
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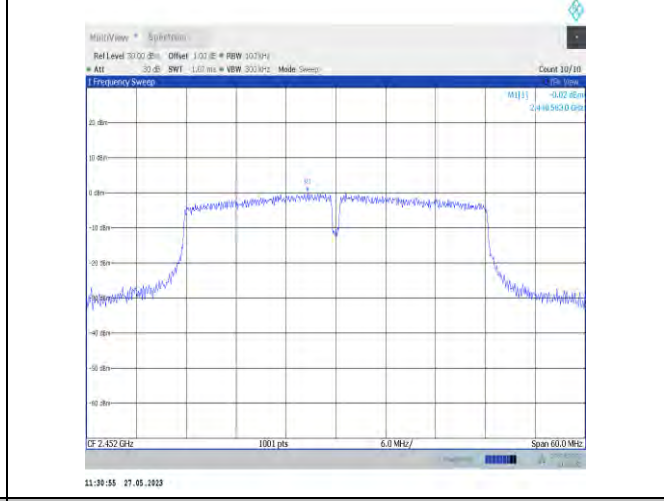
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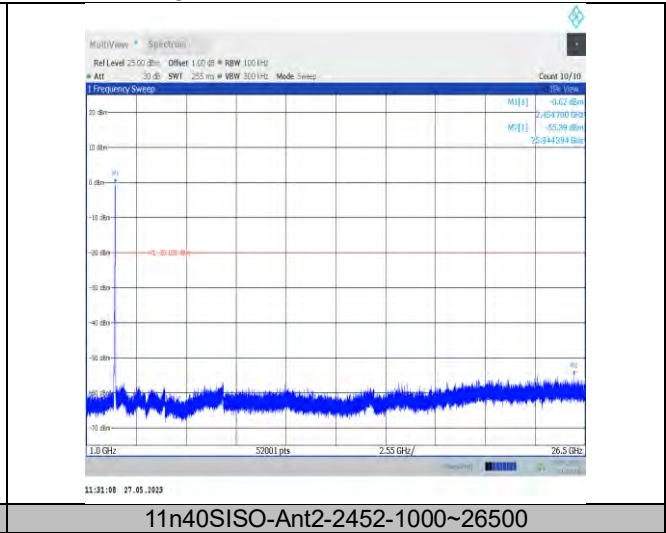
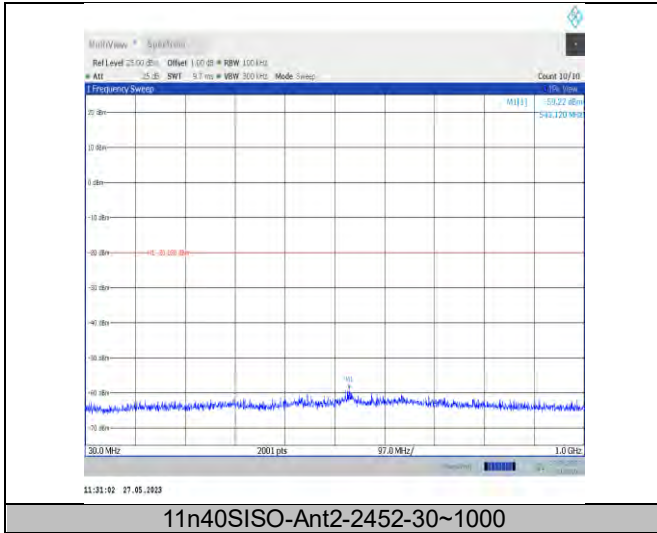


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Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle* [%]	Factor
11b	Ant2	2412	20.00	20.00	100.00	0.00
11g	Ant2	2412	20.00	20.00	100.00	0.00
11n20SISO	Ant2	2412	20.00	20.00	100.00	0.00
11n40SISO	Ant2	2422	20.00	20.00	100.00	0.00

Note:

Radiated Emission Average VBW Setting:

*Duty cycle > 98% VBW setting=10Hz



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Test Graphs

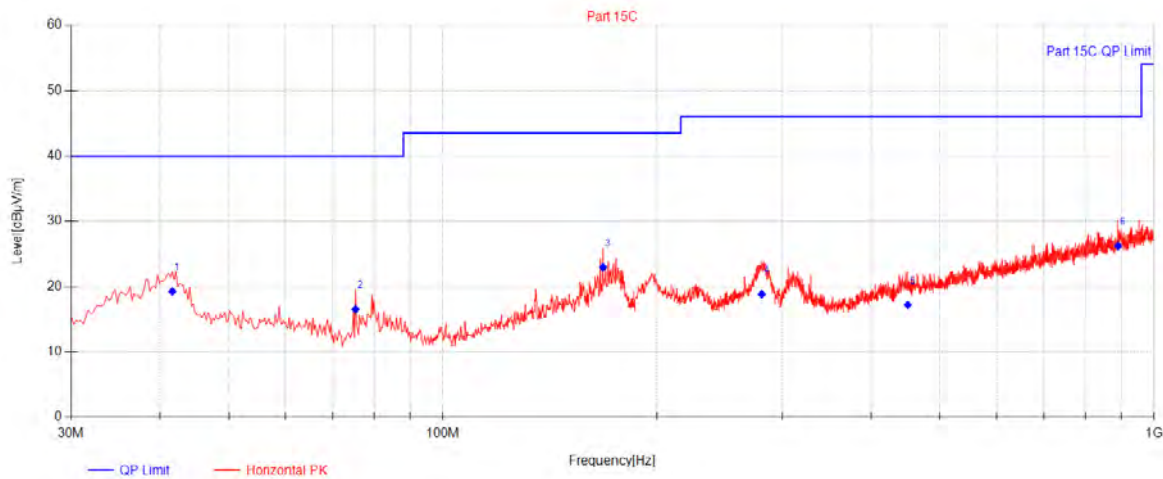


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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode:802.11b_Channel 11

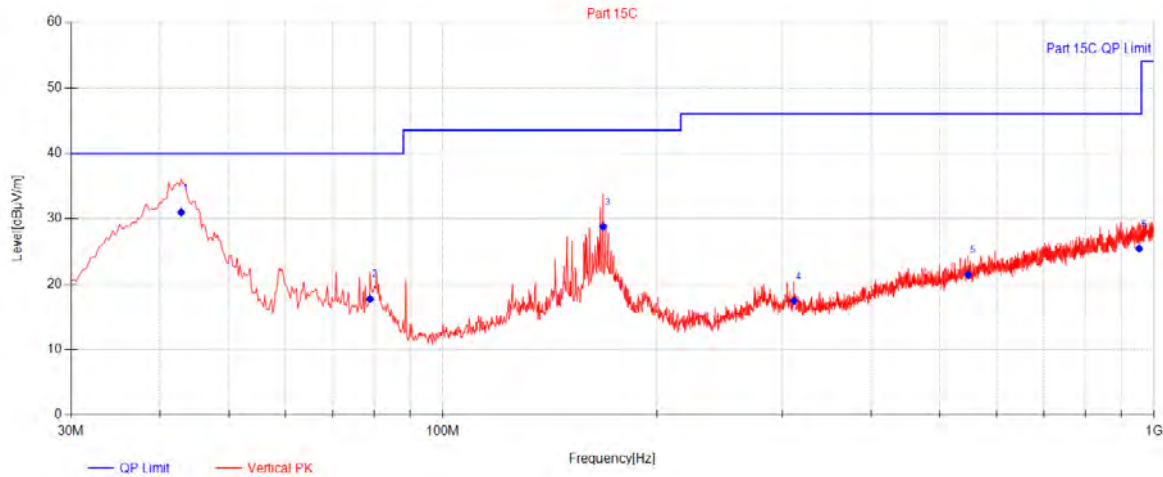


Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.64	41.58	-36.25	13.93	19.26	40.00	20.74	132	161	Horizontal
2	75.3475	42.55	-36.04	10.00	16.51	40.00	23.49	147	302	Horizontal
3	167.9825	43.78	-35.18	14.36	22.96	43.50	20.54	125	354	Horizontal
4	280.745	41.02	-34.50	12.33	18.84	46.00	27.16	258	161	Horizontal
5	450.495	34.28	-33.04	15.98	17.21	46.00	28.79	163	20	Horizontal
6	890.39	34.87	-30.17	21.52	26.23	46.00	19.77	199	11	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	42.8525	53.38	-36.23	13.83	30.98	40.00	9.02	145	208	Vertical
2	78.985	44.03	-35.72	9.45	17.75	40.00	22.25	248	138	Vertical
3	167.9825	49.60	-35.18	14.36	28.78	43.50	14.72	132	87	Vertical
4	311.785	38.70	-34.27	13.04	17.47	46.00	28.53	166	118	Vertical
5	547.495	37.04	-32.93	17.35	21.46	46.00	24.54	291	227	Vertical
6	952.7125	33.70	-30.40	22.14	25.45	46.00	20.55	187	118	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:
 Value = Reading(dBμV) + AF(dB/m) + Factor(dB)
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)
 Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.

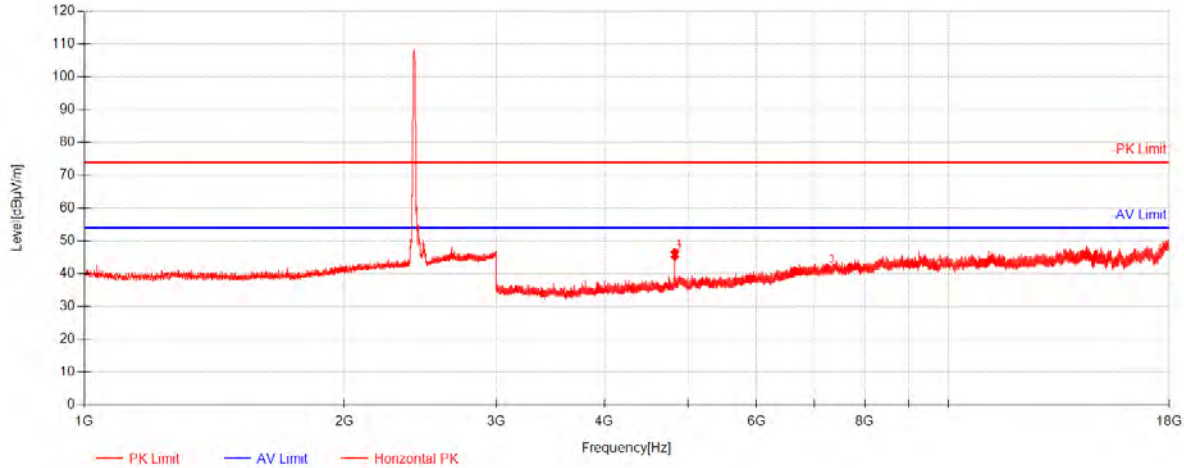


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Transmitter emission Above 1GHz

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	4824.0000	59.73	32.39	-45.54	46.58	74.00	27.42	155	56	Horizontal
2	4824.5	58.38	32.39	-45.54	45.23	54.00	8.77	215	56	Horizontal
3	7236.0000	48.89	36.58	-43.54	41.93	74.00	32.07	168	353	Horizontal
4	9648.0000	43.28	38.39	-39.56	42.11	74.00	31.89	195	360	Horizontal

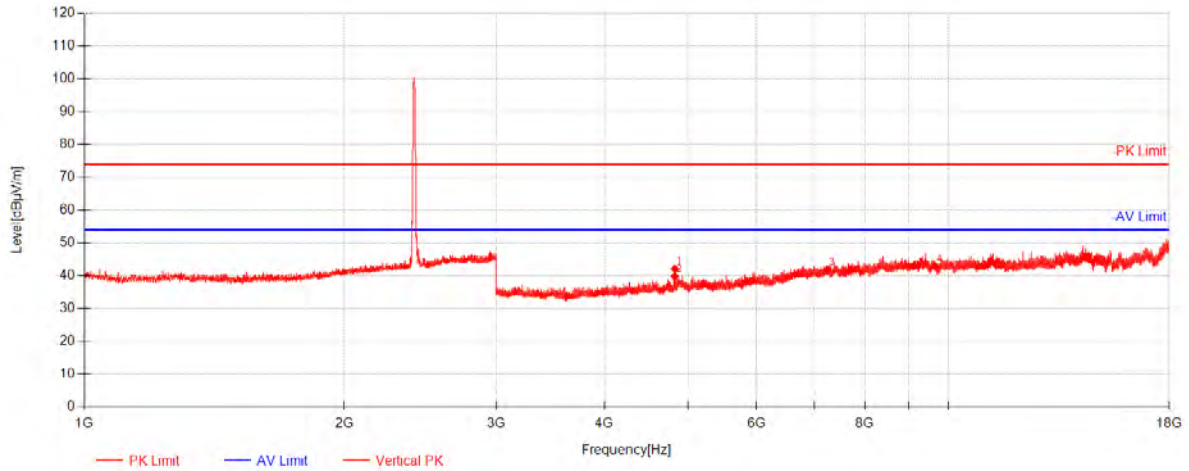


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802.11b_Channel 01



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	4824.0000	55.27	32.39	-45.54	42.12	74.00	31.88	168	280	Vertical
2	4824.5	52.92	32.39	-45.54	39.77	54.00	14.23	215	280	Vertical
3	7236.0000	48.69	36.58	-43.54	41.73	74.00	32.27	201	282	Vertical
4	9648.0000	44.04	38.39	-39.56	42.87	74.00	31.13	188	251	Vertical

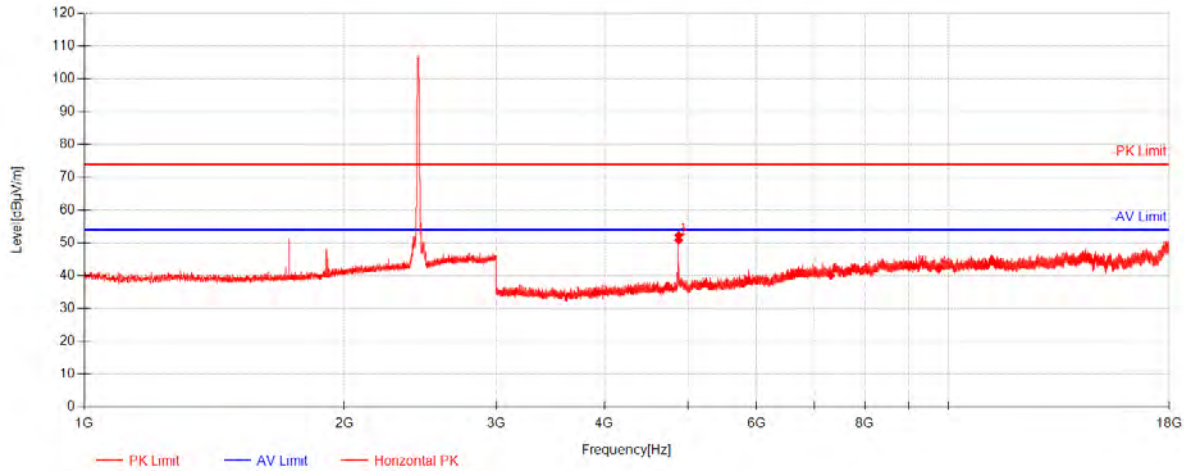


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802.11b_Channel 06



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	65.33	32.53	-45.53	52.32	74.00	21.68	215	55	Horizontal
2	4874.5	63.87	32.53	-45.53	50.87	54.00	3.13	188	55	Horizontal
3	7311.0000	47.24	36.54	-43.71	40.07	74.00	33.93	195	360	Horizontal
4	9748.0000	43.36	38.28	-39.46	42.18	74.00	31.82	185	337	Horizontal

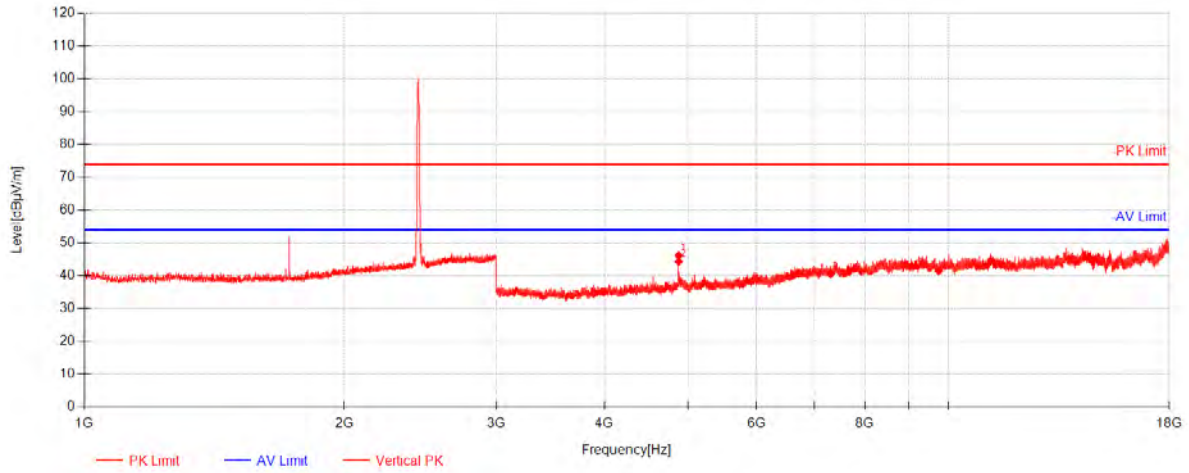


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802.11b_Channel 06



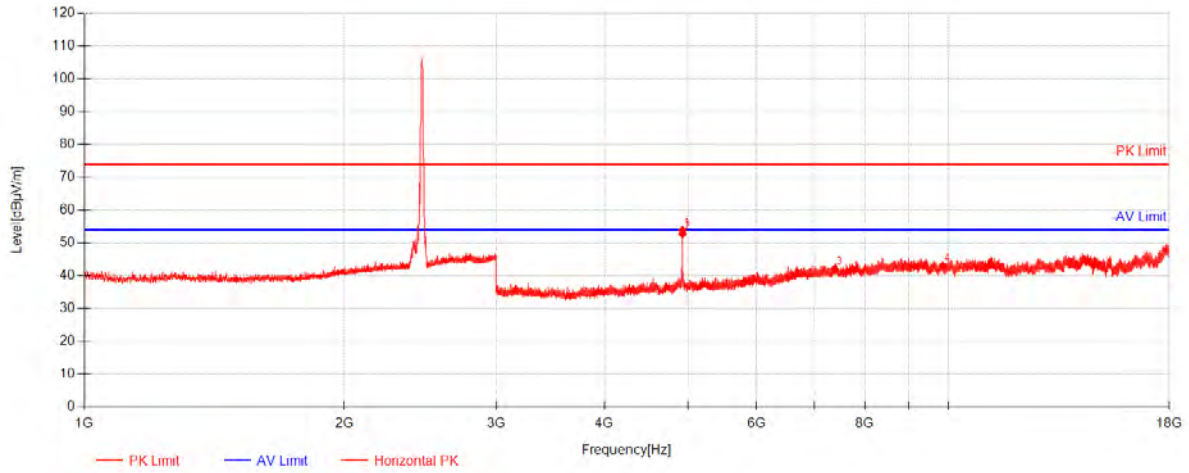
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1	4874.0000	59.18	32.53	-45.53	46.17	74.00	27.83	185	281	Vertical
2	4874.5	57.36	32.53	-45.53	44.36	54.00	9.64	201	281	Vertical
3	7311.0000	47.66	36.54	-43.71	40.49	74.00	33.51	195	141	Vertical
4	9748.0000	42.57	38.28	-39.46	41.39	74.00	32.61	132	197	Vertical



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802.11b_Channel 11



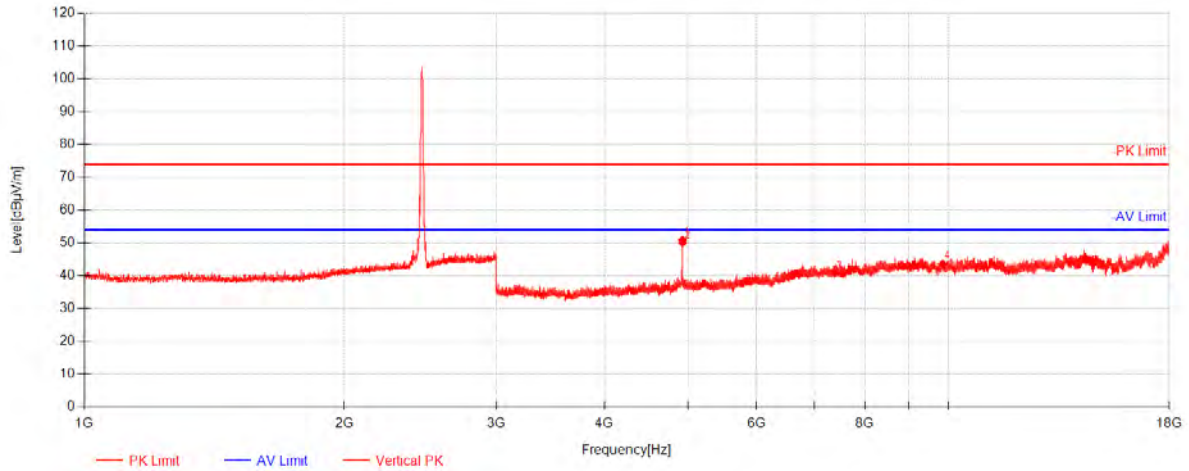
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1	4924.0000	66.76	32.67	-45.56	53.87	74.00	20.13	158	82	Horizontal
2	4924.5	65.69	32.67	-45.56	52.80	54.00	1.20	185	82	Horizontal
3	7386.0000	49.05	36.50	-43.46	42.09	74.00	31.91	215	165	Horizontal
4	9848.0000	44.19	38.28	-39.41	43.07	74.00	30.93	196	194	Horizontal



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802.11b_Channel 11



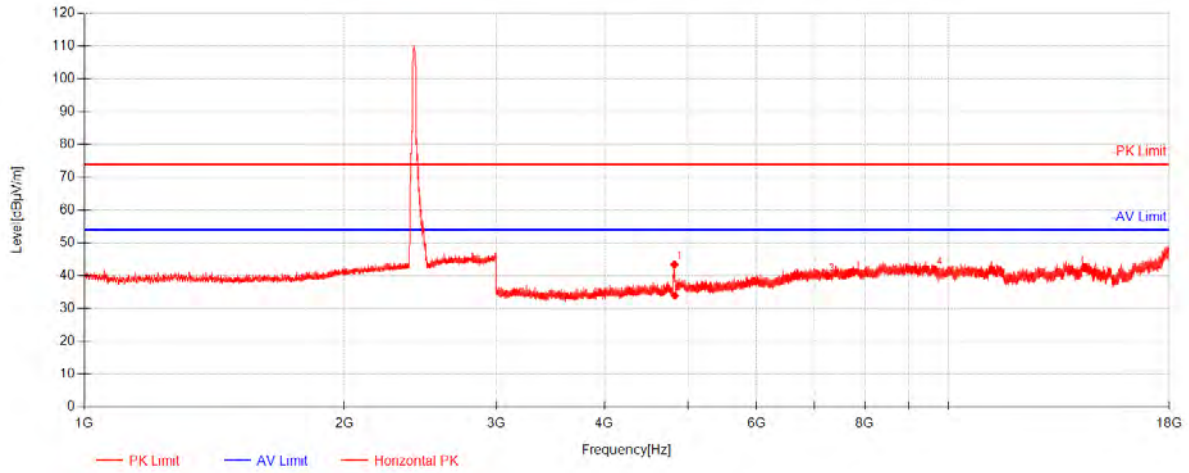
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	63.84	32.67	-45.56	50.95	74.00	23.05	168	281	Vertical
2	4924.5	62.90	32.67	-45.56	50.01	54.00	3.99	102	281	Vertical
3	7386.0000	47.69	36.50	-43.46	40.73	74.00	33.27	177	55	Vertical
4	9848.0000	44.81	38.28	-39.41	43.69	74.00	30.31	215	233	Vertical



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802.11n20_Channel 01



Data List										
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1	4819.5	56.63	32.37	-45.54	43.47	74.00	30.53	165	54	Horizontal
2	4824.5	47.07	32.39	-45.54	33.92	54.00	20.08	218	54	Horizontal
3	7236.0000	46.83	36.58	-43.54	39.87	74.00	34.13	102	54	Horizontal
4	9648.0000	43.11	38.39	-39.56	41.94	74.00	32.06	188	54	Horizontal

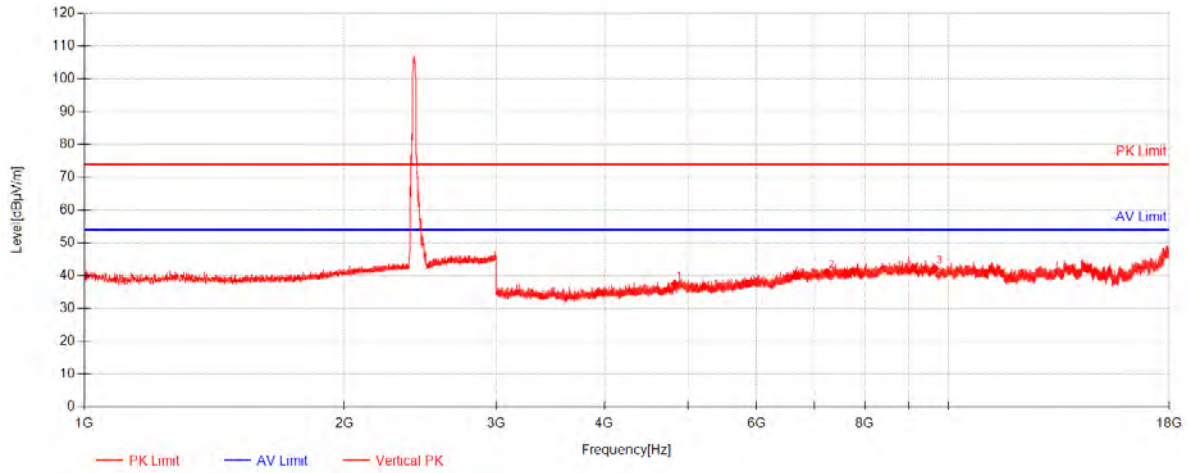


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802.11n20_Channel 01



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	4824.0000	50.65	32.39	-45.54	37.50	74.00	36.50	168	195	Vertical
2	7236.0000	48.01	36.58	-43.54	41.05	74.00	32.95	151	136	Vertical
3	9648.0000	43.36	38.39	-39.56	42.19	74.00	31.81	210	138	Vertical

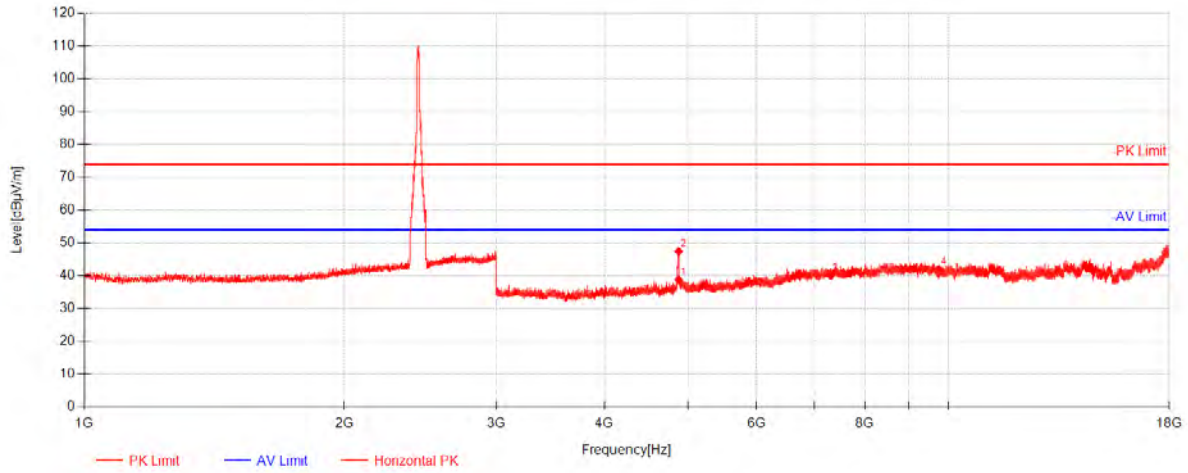


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802.11n20_Channel 06



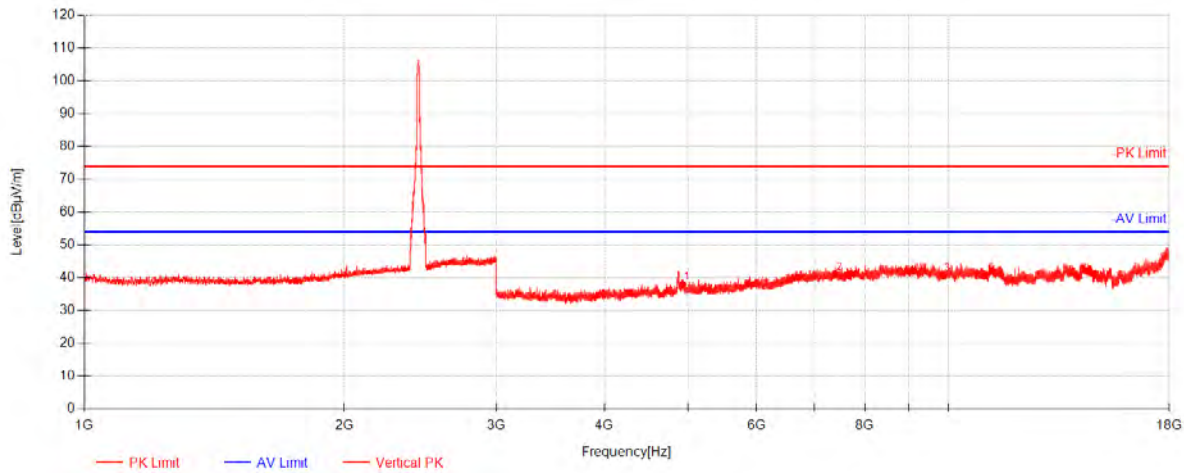
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1	4873.5	51.79	32.53	-45.53	38.78	54.00	15.22	144	52	Horizontal
2	4874.0000	60.43	32.53	-45.53	47.42	74.00	26.58	144	52	Horizontal
3	7311.0000	47.21	36.54	-43.71	40.04	74.00	33.96	221	220	Horizontal
4	9748.0000	43.24	38.28	-39.46	42.06	74.00	31.94	178	220	Horizontal



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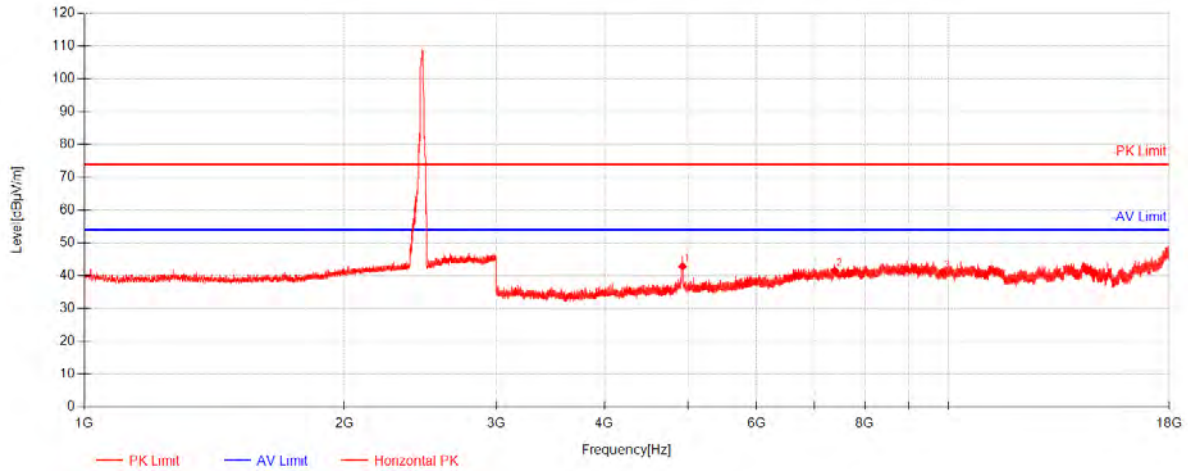
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1	4924.0000	50.91	32.67	-45.56	38.02	74.00	35.98	188	165	Vertical
2	7386.0000	47.99	36.50	-43.46	41.03	74.00	32.97	217	194	Vertical
3	9848.0000	41.74	38.28	-39.41	40.62	74.00	33.38	173	193	Vertical



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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	4924.0000	55.76	32.67	-45.56	42.87	74.00	31.13	105	80	Horizontal
2	7386.0000	48.50	36.50	-43.46	41.54	74.00	32.46	214	108	Horizontal
3	9848.0000	42.09	38.28	-39.41	40.97	74.00	33.03	197	7	Horizontal

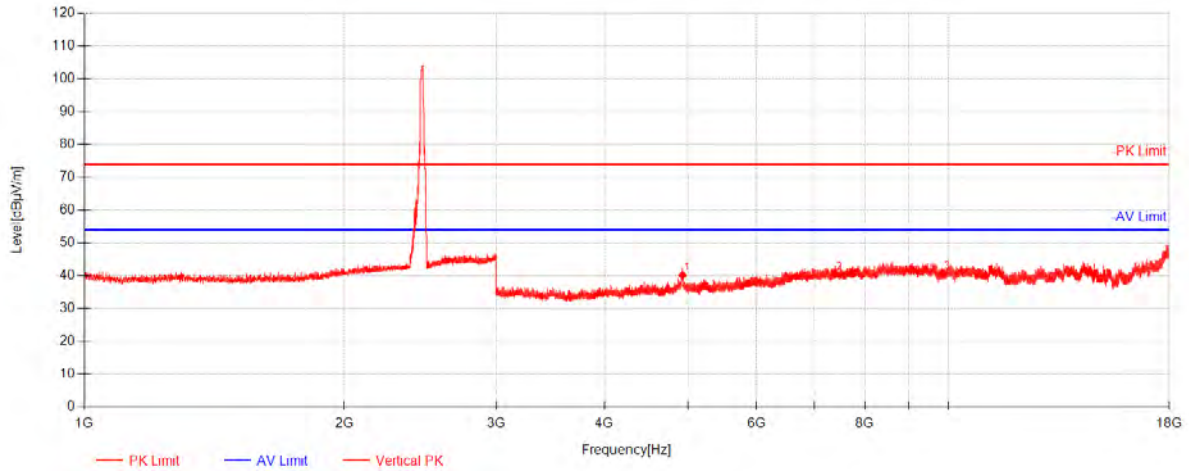


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802.11n20_Channel 11



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	4924.0000	53.01	32.67	-45.56	40.12	74.00	33.88	168	79	Vertical
2	7386.0000	47.30	36.50	-43.46	40.34	74.00	33.66	217	108	Vertical
3	9848.0000	41.81	38.28	-39.41	40.69	74.00	33.31	145	331	Vertical

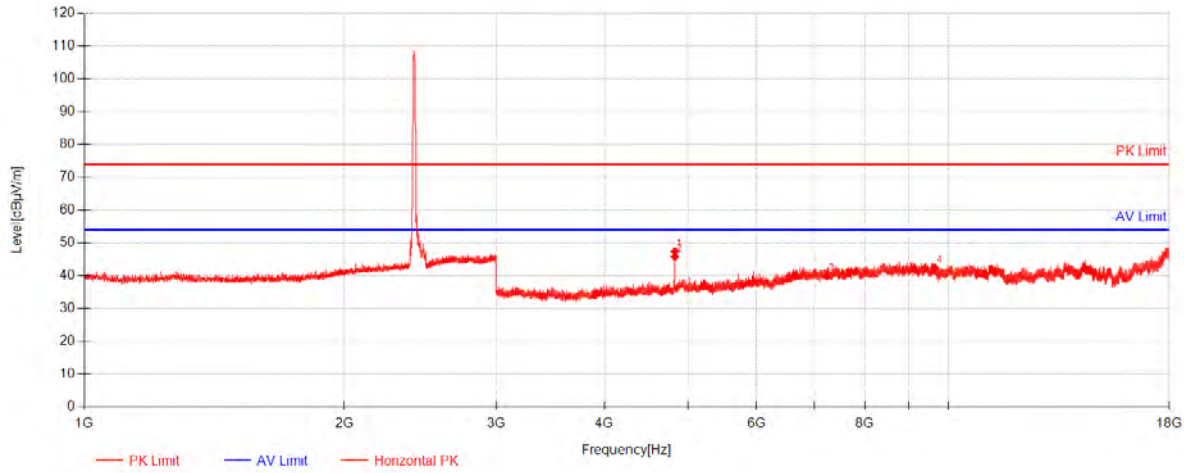


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802.11g_Channel 01



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	4824.0000	60.52	32.39	-45.54	47.37	74.00	26.63	188	53	Horizontal
2	4824.5	58.98	32.39	-45.54	45.83	54.00	8.17	215	53	Horizontal
3	7236.0000	46.80	36.58	-43.54	39.84	74.00	34.16	203	110	Horizontal
4	9648.0000	43.61	38.39	-39.56	42.44	74.00	31.56	195	357	Horizontal

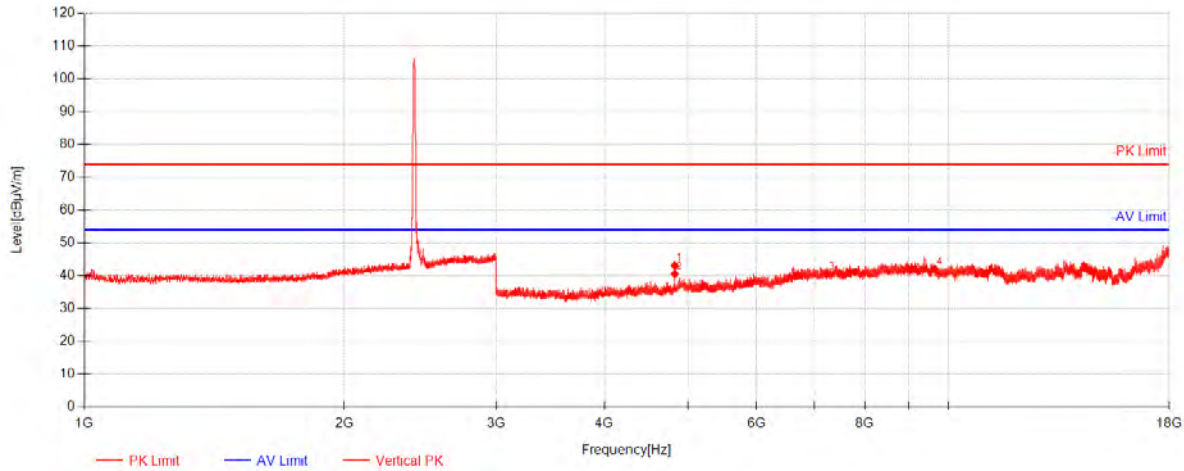


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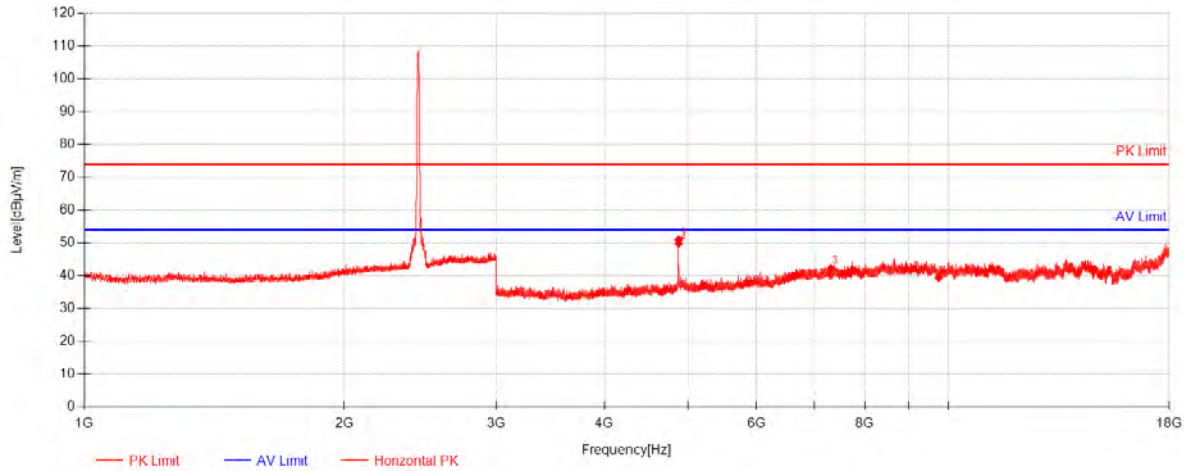
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	56.26	32.39	-45.54	43.11	74.00	30.89	188	194	Vertical
2	4824.5	53.65	32.39	-45.54	40.50	54.00	13.50	203	194	Vertical
3	7236.0000	47.39	36.58	-43.54	40.43	74.00	33.57	155	53	Vertical
4	9648.0000	43.14	38.39	-39.56	41.97	74.00	32.03	195	165	Vertical



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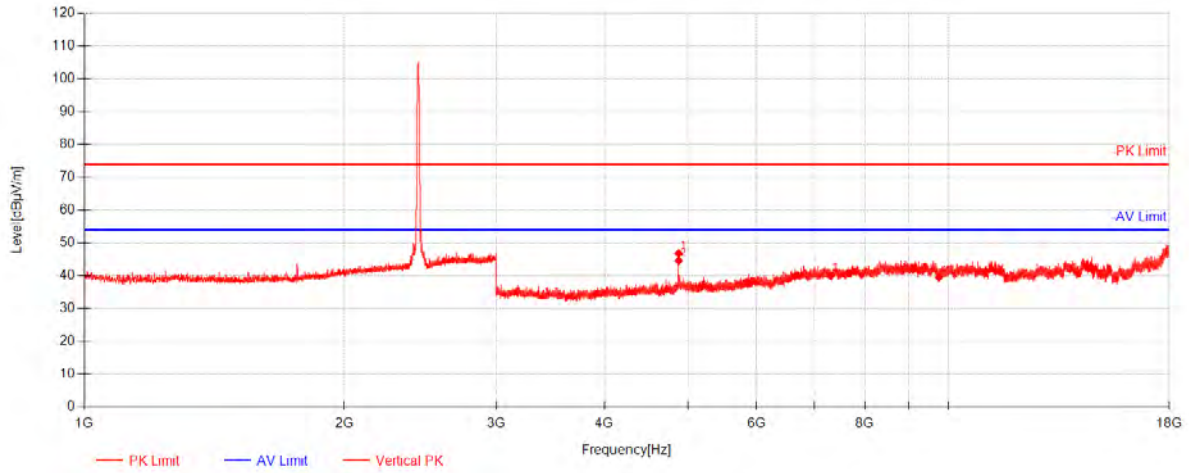
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1	4874.0000	64.06	32.53	-45.53	51.05	74.00	22.95	185	82	Horizontal
2	4874.5	62.83	32.53	-45.53	49.83	54.00	4.17	195	53	Horizontal
3	7311.0000	49.45	36.54	-43.71	42.28	74.00	31.72	201	250	Horizontal
4	9748.0000	40.59	38.28	-39.46	39.41	74.00	34.59	174	26	Horizontal



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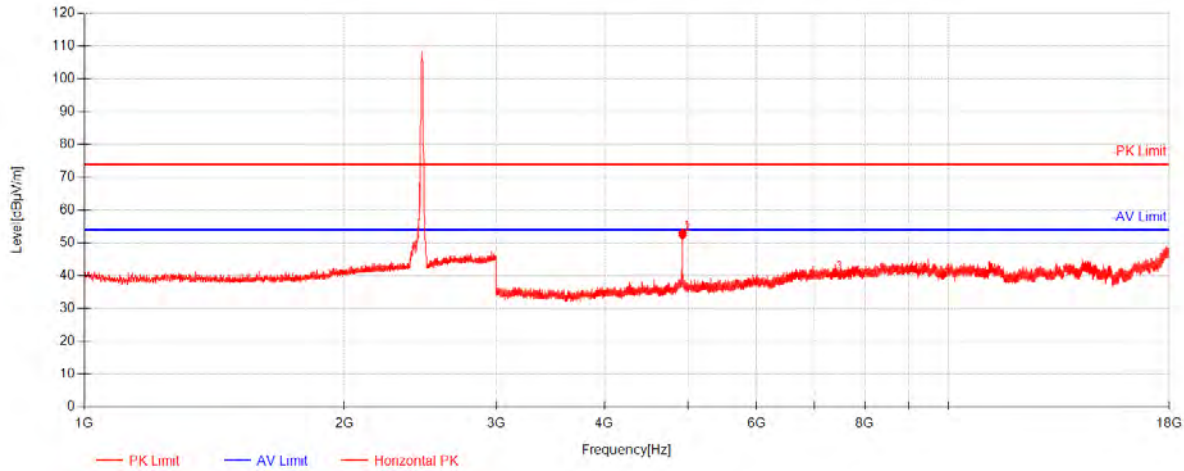
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1	4874.0000	59.81	32.53	-45.53	46.80	74.00	27.20	188	264	Vertical
2	4874.5	57.62	32.53	-45.53	44.62	54.00	9.38	203	264	Vertical
3	7311.0000	47.07	36.54	-43.71	39.90	74.00	34.10	195	264	Vertical
4	9748.0000	40.68	38.28	-39.46	39.50	74.00	34.50	216	264	Vertical



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802.11g_Channel 11



Data List										
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1	4924	66.04	32.67	-45.56	53.15	74.00	20.85	195	53	Horizontal
2	4924.5	65.18	32.67	-45.56	52.29	54.00	1.71	121	53	Horizontal
3	7386.0000	47.58	36.50	-43.46	40.62	74.00	33.38	175	6	Horizontal
4	9848.0000	41.14	38.28	-39.41	40.02	74.00	33.98	236	163	Horizontal

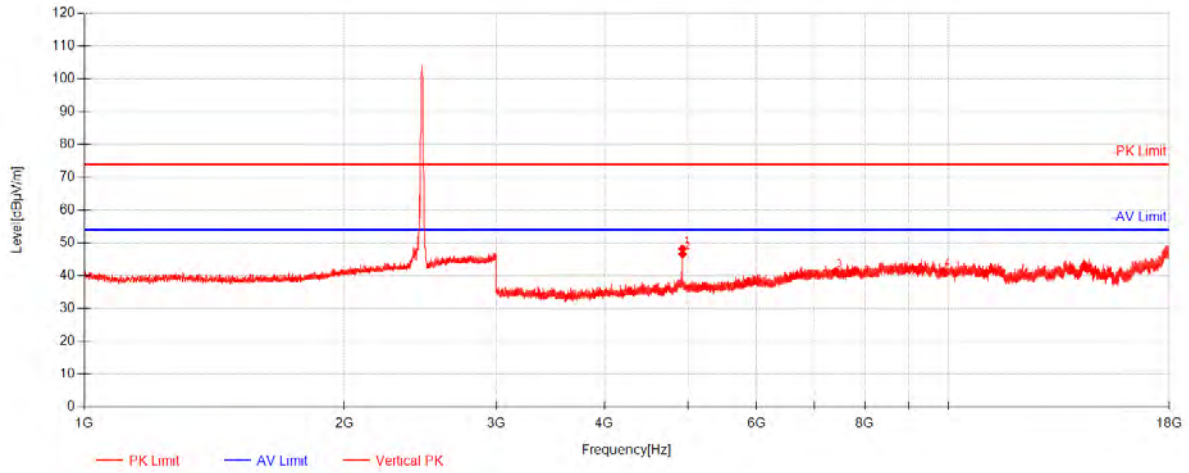


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802.11g_Channel 11



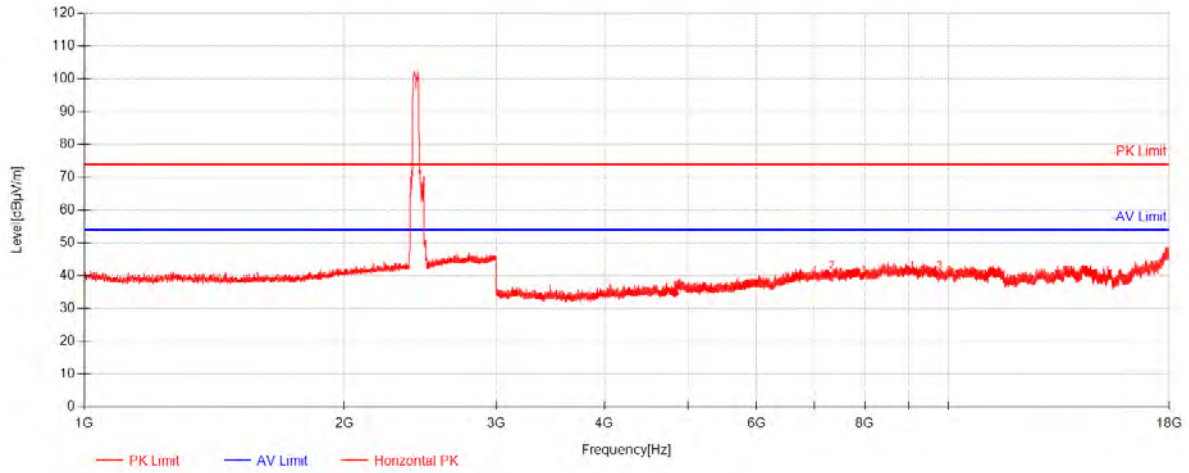
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	61.12	32.67	-45.56	48.23	74.00	25.77	155	250	Vertical
2	4924.5	59.47	32.67	-45.56	46.58	54.00	7.42	148	250	Vertical
3	7386.0000	48.21	36.50	-43.46	41.25	74.00	32.75	232	28	Vertical
4	9848.0000	42.59	38.28	-39.41	41.47	74.00	32.53	195	138	Vertical



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802.11n40_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	4824.0000	47.76	32.39	-45.54	34.61	74.00	39.39	155	29	Horizontal
2	7236.0000	47.55	36.58	-43.54	40.59	74.00	33.41	263	4	Horizontal
3	9648.0000	41.95	38.39	-39.56	40.78	74.00	33.22	195	29	Horizontal

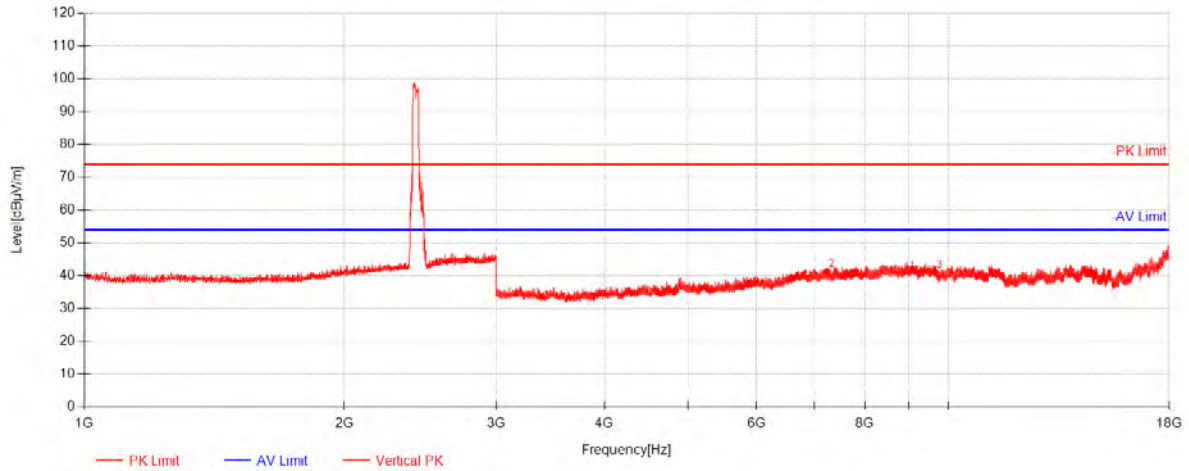


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802.11n40_Channel 01



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	4824.0000	48.42	32.39	-45.54	35.27	74.00	38.73	188	224	Vertical
2	7236.0000	48.22	36.58	-43.54	41.26	74.00	32.74	201	28	Vertical
3	9648.0000	42.23	38.39	-39.56	41.06	74.00	32.94	195	84	Vertical

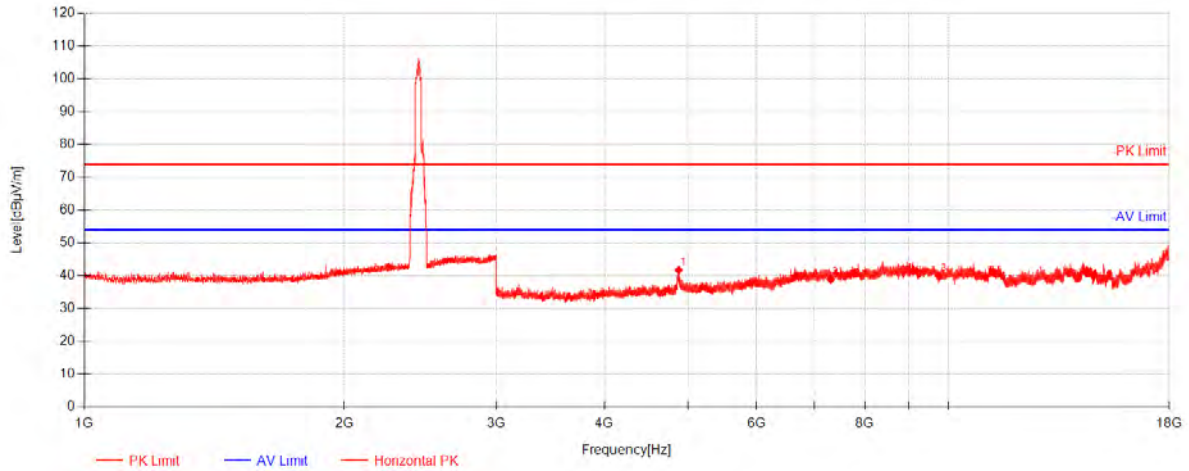


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802.11n40_Channel 06



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	4874.0000	54.73	32.53	-45.53	41.72	74.00	32.28	188	55	Horizontal
2	7311.0000	46.00	36.54	-43.71	38.83	74.00	35.17	215	190	Horizontal
3	9748.0000	41.23	38.28	-39.46	40.05	74.00	33.95	167	28	Horizontal

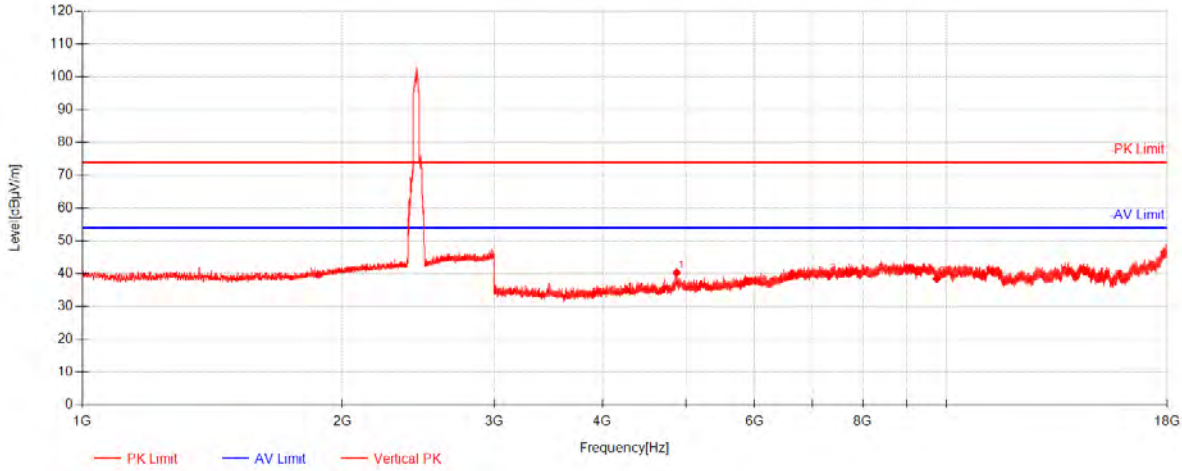


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802.11n40_Channel 06



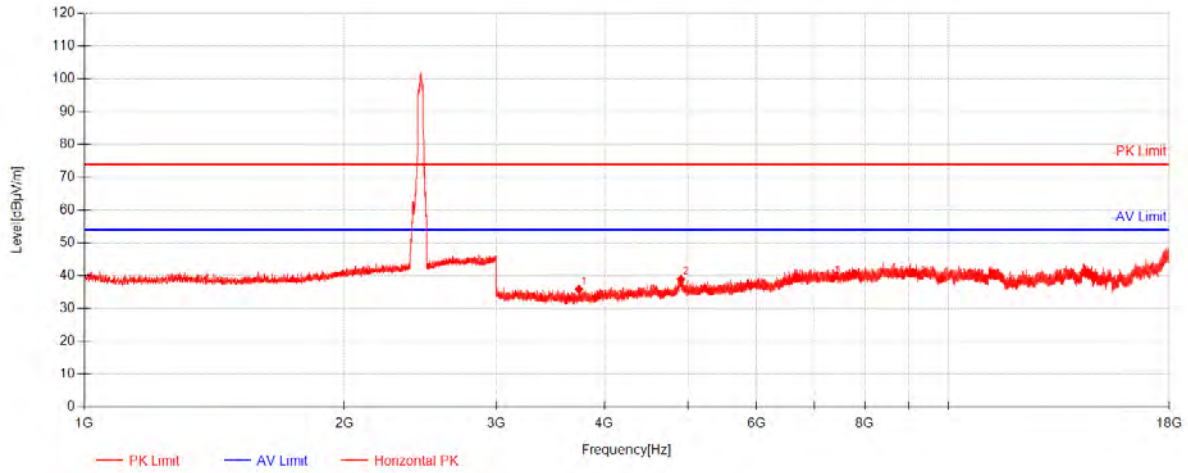
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	53.29	32.53	-45.53	40.28	74.00	33.72	168	278	Vertical
2	7311.0000	46.49	36.54	-43.71	39.32	74.00	34.68	188	360	Vertical
3	9748.0000	39.65	38.28	-39.46	38.47	74.00	35.53	201	278	Vertical



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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
2	4904.0000	51.79	32.61	-45.53	38.87	74.00	35.13	147	111	Horizontal
3	7356.0000	46.25	36.51	-43.56	39.20	74.00	34.80	163	360	Horizontal
4	9808.0000	40.16	38.23	-39.47	38.92	74.00	35.08	221	55	Horizontal

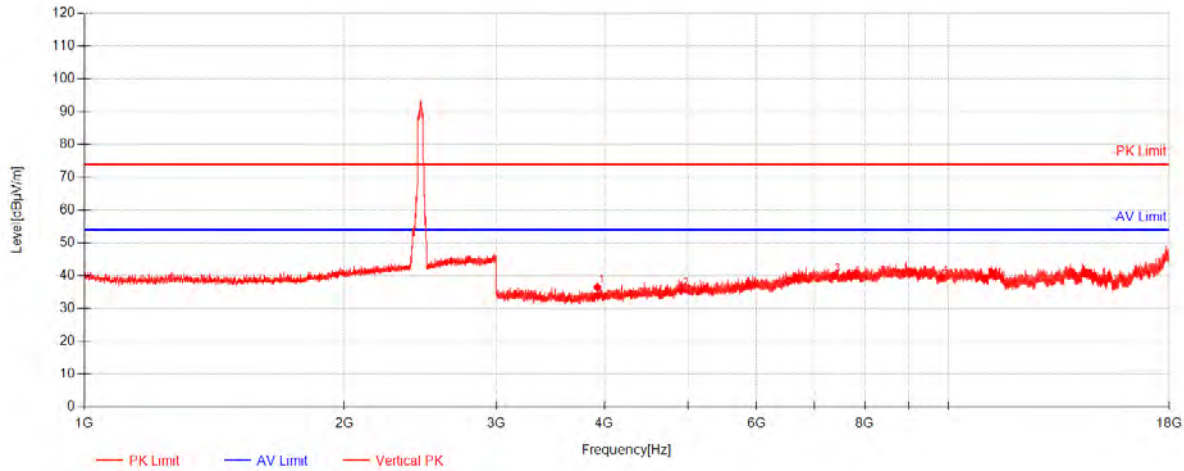


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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
2	4904.0000	48.43	32.61	-45.53	35.51	74.00	38.49	278	359	Vertical
3	7356.0000	47.00	36.51	-43.56	39.95	74.00	34.05	163	360	Vertical
4	9808.0000	40.72	38.23	-39.47	39.48	74.00	34.52	199	28	Vertical

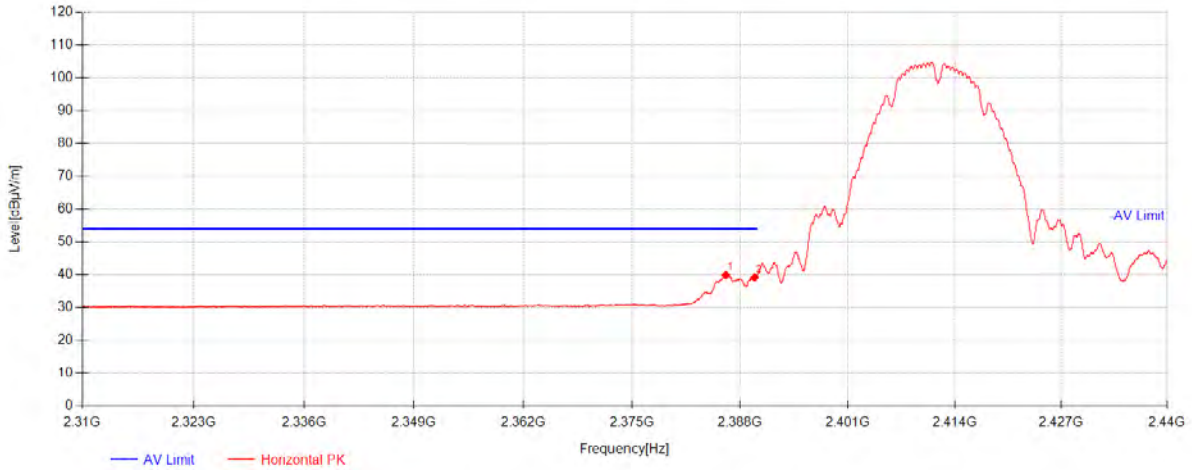
Remark:

- 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(dBμV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBμV/m) – Level(dBμV/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	2386.2667	36.02	27.43	-23.57	39.88	54.00	14.12	145	292	Horizontal
2	2389.7333	35.30	27.43	-23.57	39.16	54.00	14.84	145	292	Horizontal

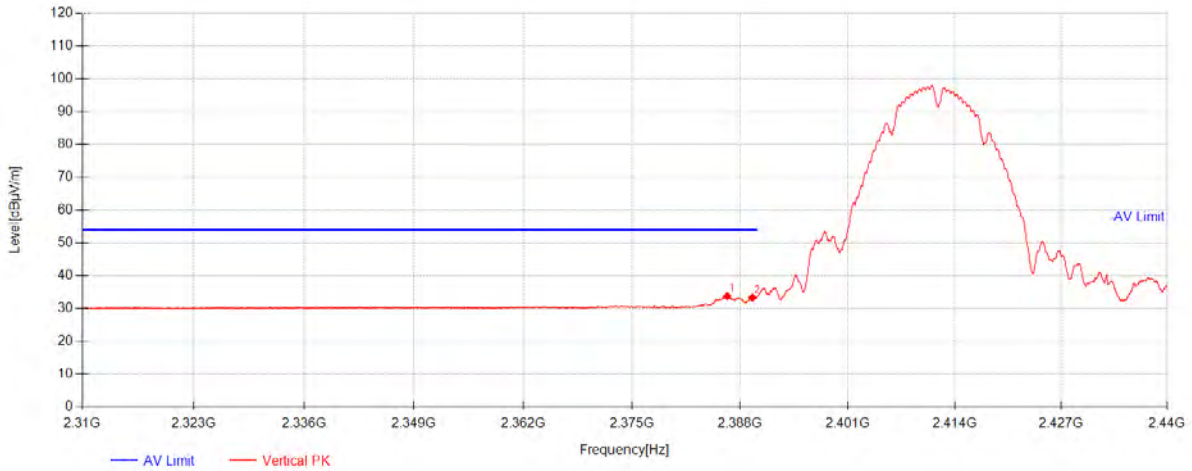


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802.11b_Channel 01



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	2386.44	29.94	27.43	-23.57	33.80	54.00	20.20	168	234	Vertical
2	2389.4733	29.50	27.43	-23.57	33.36	54.00	20.64	168	234	Vertical

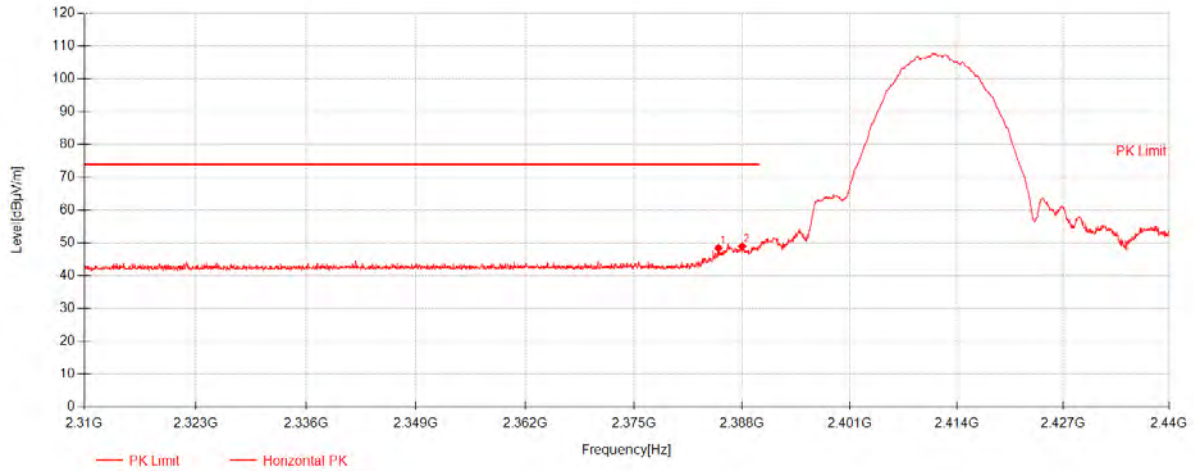


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802.11b_Channel 01



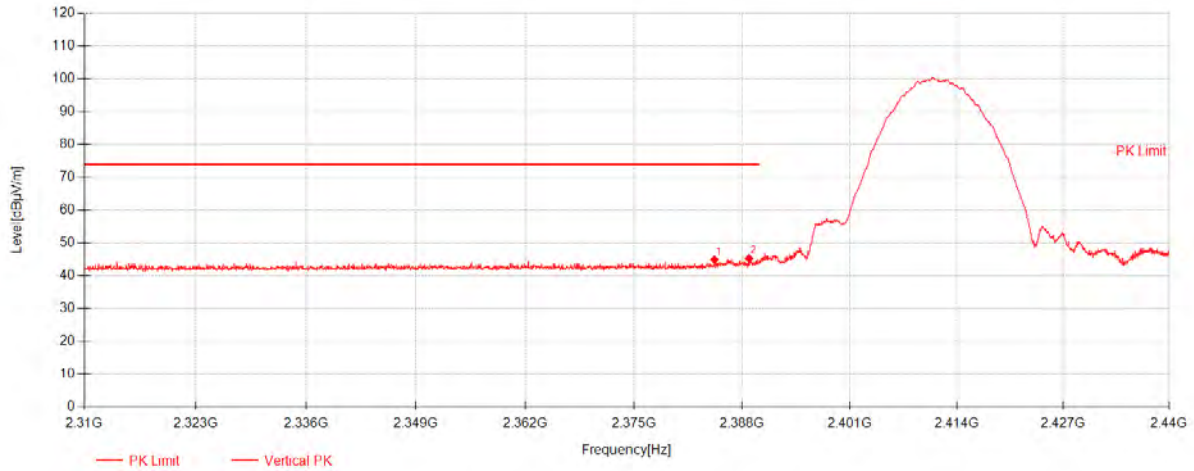
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.14	44.57	27.43	-23.57	48.43	74.00	25.57	145	292	Horizontal
2	2388	45.11	27.43	-23.57	48.97	74.00	25.03	145	292	Horizontal



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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	2384.6633	41.03	27.43	-23.57	44.89	74.00	29.11	168	234	Vertical
2	2388.8233	41.43	27.43	-23.57	45.29	74.00	28.71	168	234	Vertical

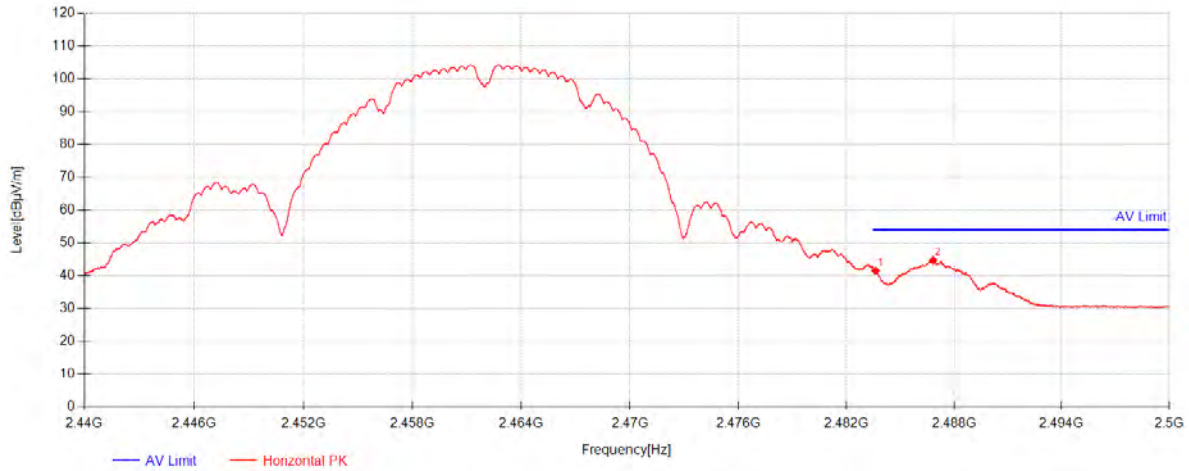


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802.11b_Channel 11



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	2483.6275	37.33	27.72	-23.54	41.50	54.00	12.50	155	269	Horizontal
2	2486.8375	40.53	27.73	-23.54	44.71	54.00	9.29	155	269	Horizontal

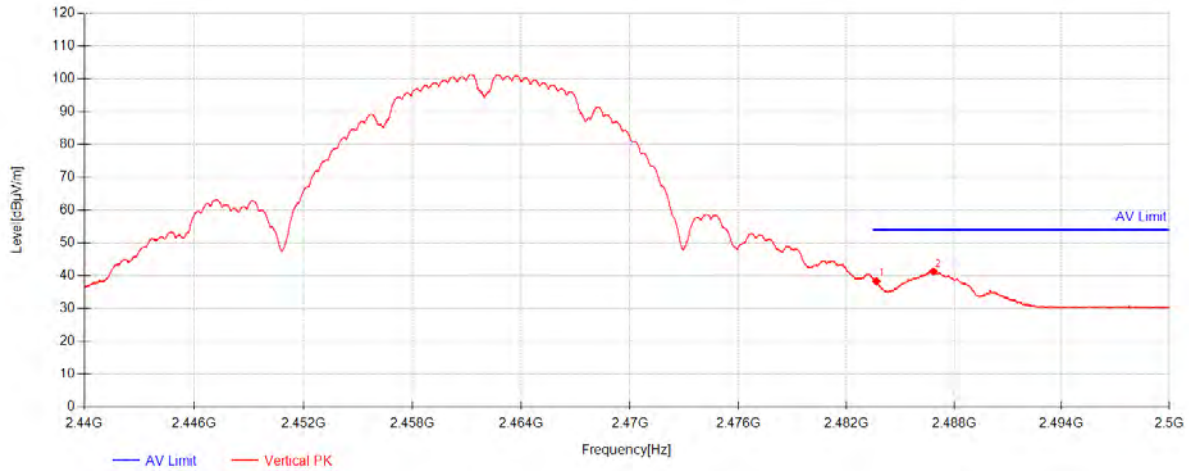


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802.11b_Channel 11



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	2483.6725	34.11	27.72	-23.54	38.28	54.00	15.72	215	263	Vertical
2	2486.845	37.12	27.73	-23.54	41.30	54.00	12.70	215	263	Vertical

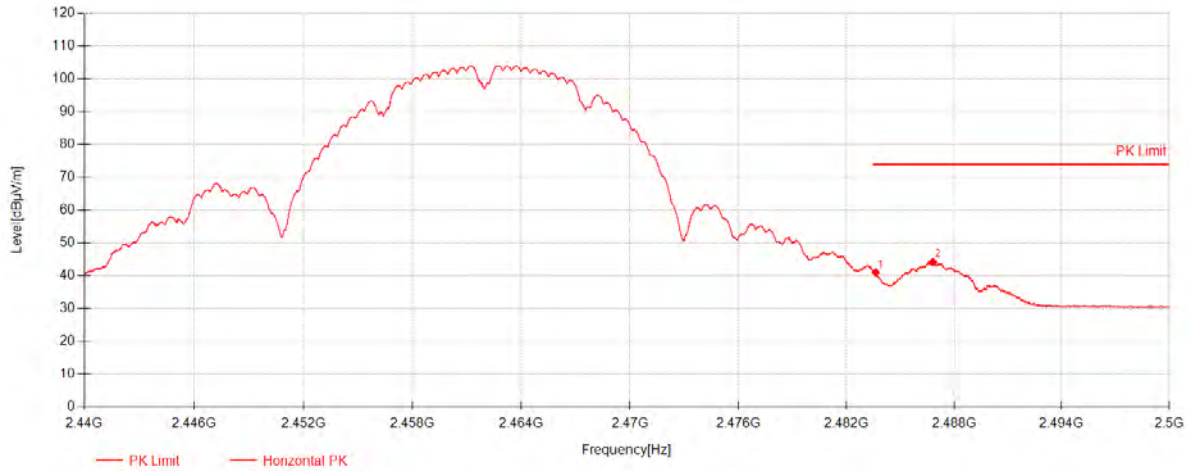


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802.11b_Channel 11



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	2483.635	36.80	27.72	-23.54	40.97	74.00	33.03	155	269	Horizontal
2	2486.815	40.02	27.73	-23.54	44.20	74.00	29.80	155	269	Horizontal

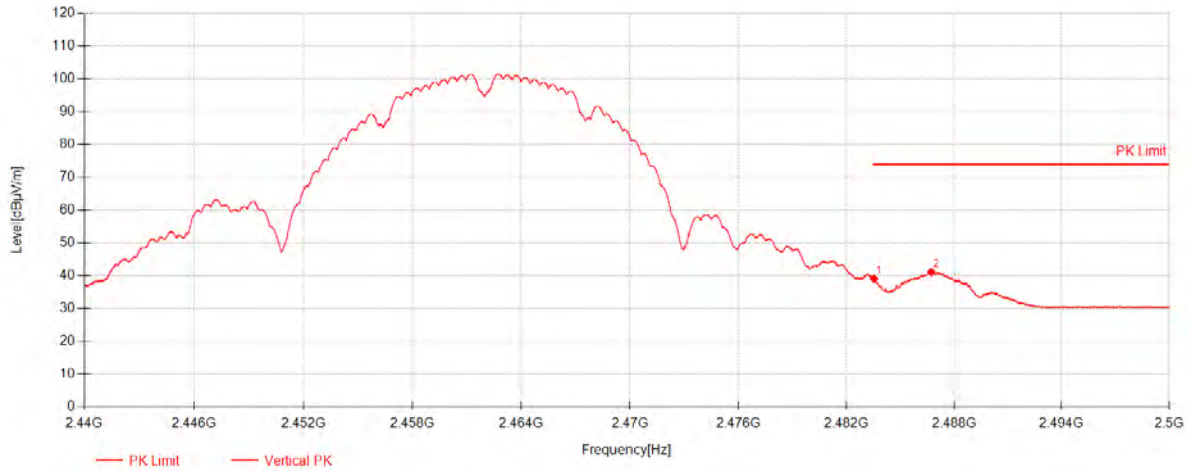


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802.11b_Channel 11



Data List										
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1	2483.5375	34.89	27.72	-23.54	39.06	74.00	34.94	215	263	Vertical
2	2486.725	36.93	27.73	-23.54	41.11	74.00	32.89	215	263	Vertical

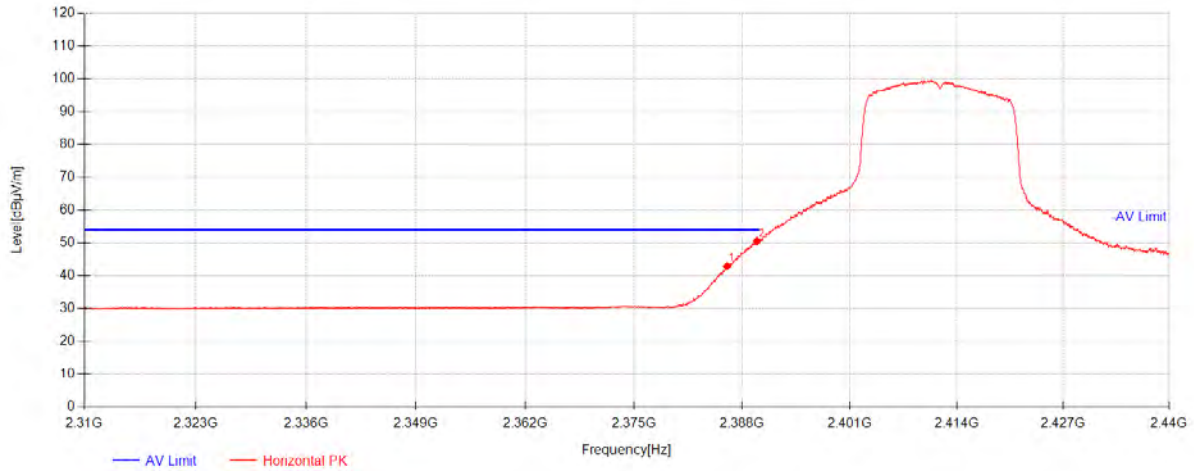


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802.11n20_Channel 01



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	2386.18	39.06	27.43	-23.57	42.92	54.00	11.08	188	292	Horizontal
2	2389.7767	46.73	27.43	-23.57	50.59	54.00	3.41	188	292	Horizontal

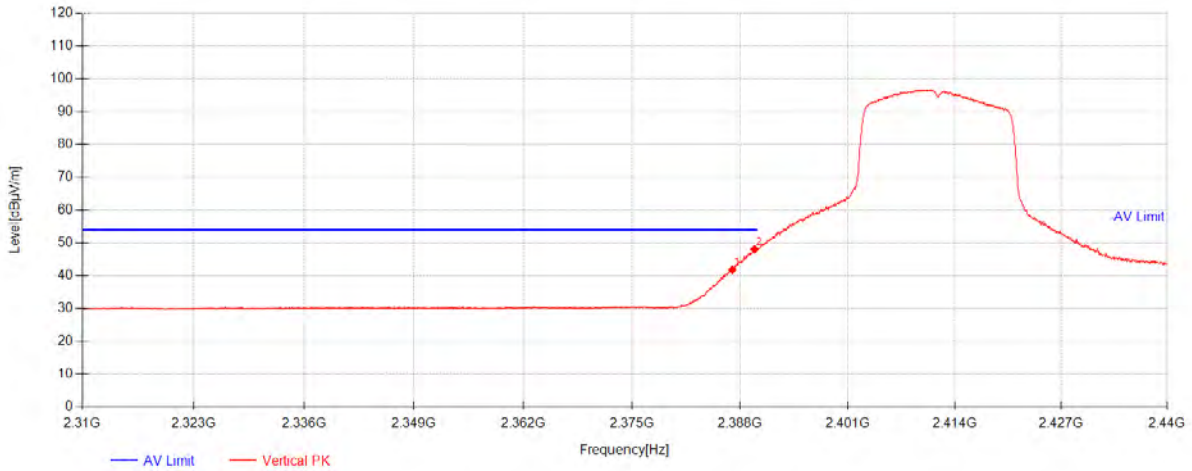


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1	2387.0467	37.94	27.43	-23.57	41.80	54.00	12.20	255	252	Vertical
2	2389.7333	44.16	27.43	-23.57	48.02	54.00	5.98	255	252	Vertical

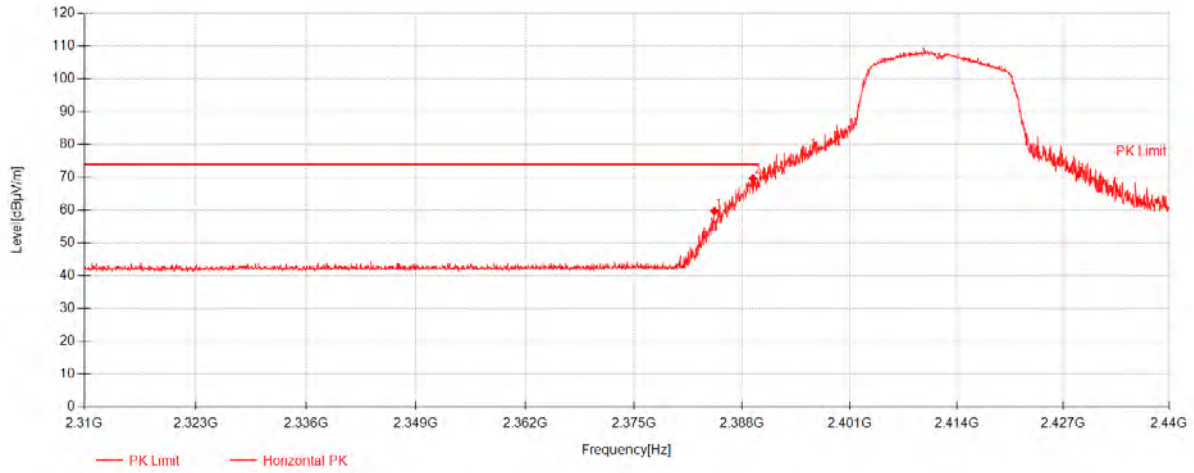


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Data List										
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1	2384.6633	55.88	27.43	-23.57	59.74	74.00	14.26	188	292	Horizontal
2	2389.3	65.78	27.43	-23.57	69.64	74.00	4.36	188	292	Horizontal

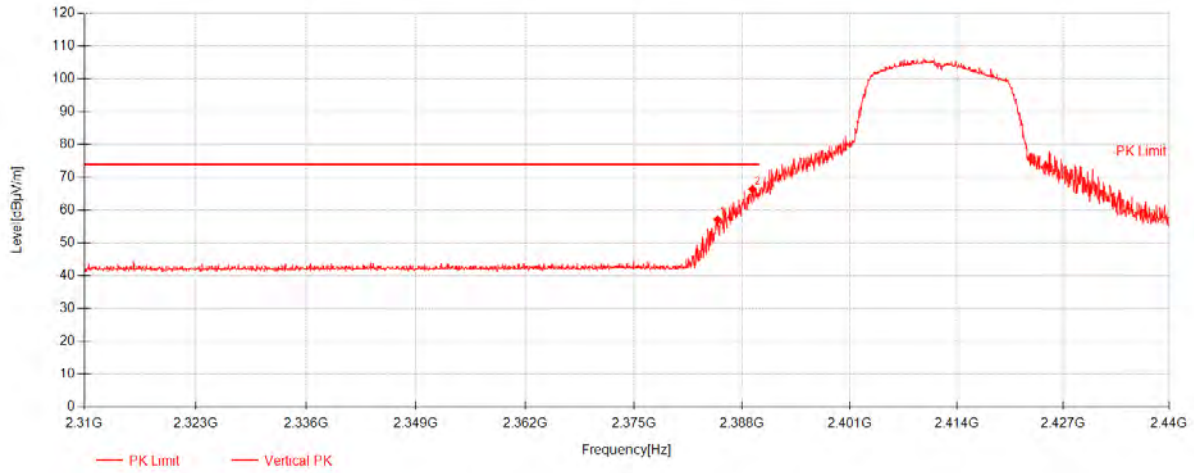


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1	2385.0533	53.25	27.43	-23.57	57.11	74.00	16.89	255	252	Vertical
2	2389.2567	62.55	27.43	-23.57	66.41	74.00	7.59	255	252	Vertical

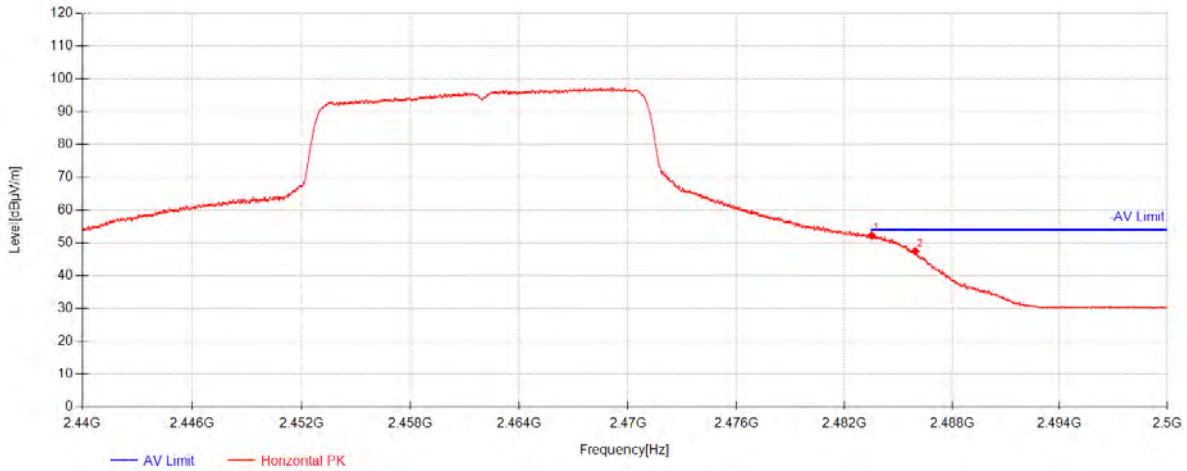


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802.11n20_Channel 11



Data List										
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1	2483.515	48.11	27.72	-23.54	52.28	54.00	1.72	168	285	Horizontal
2	2485.945	43.26	27.72	-23.54	47.44	54.00	6.56	168	285	Horizontal

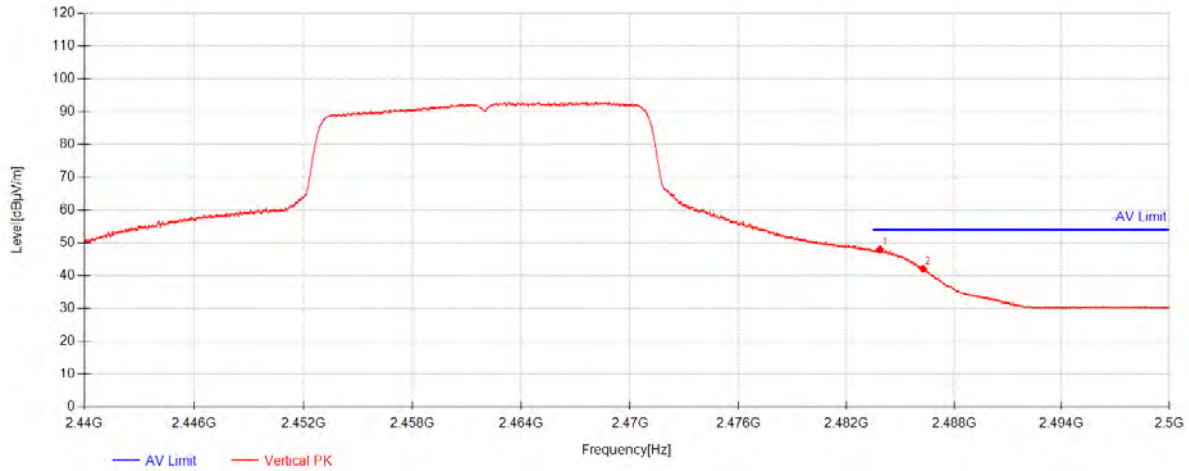


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1	2483.875	43.78	27.72	-23.54	47.95	54.00	6.05	263	234	Vertical
2	2486.2675	37.94	27.72	-23.54	42.12	54.00	11.88	263	234	Vertical

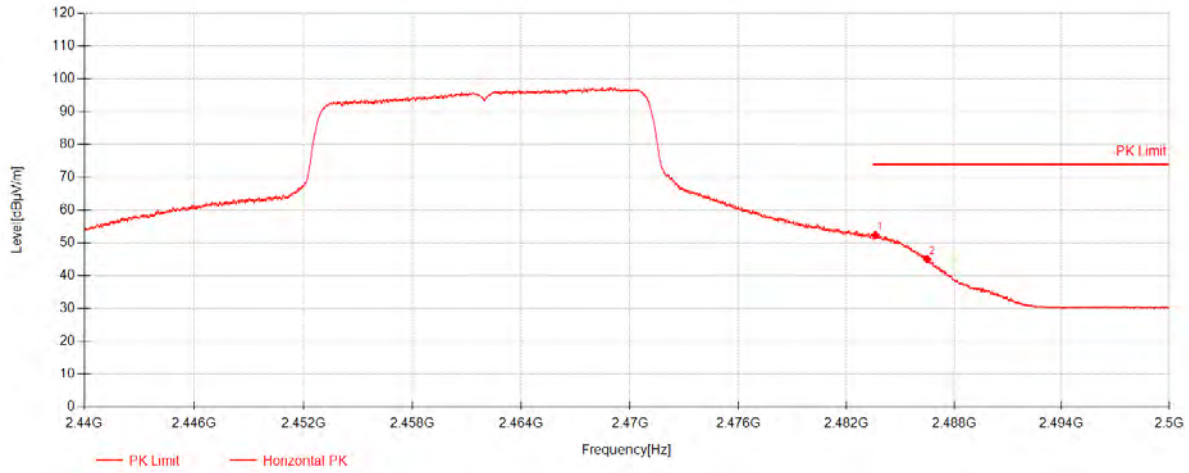


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1	2483.62	48.26	27.72	-23.54	52.43	74.00	21.57	168	285	Horizontal
2	2486.4925	40.92	27.73	-23.54	45.10	74.00	28.90	168	285	Horizontal

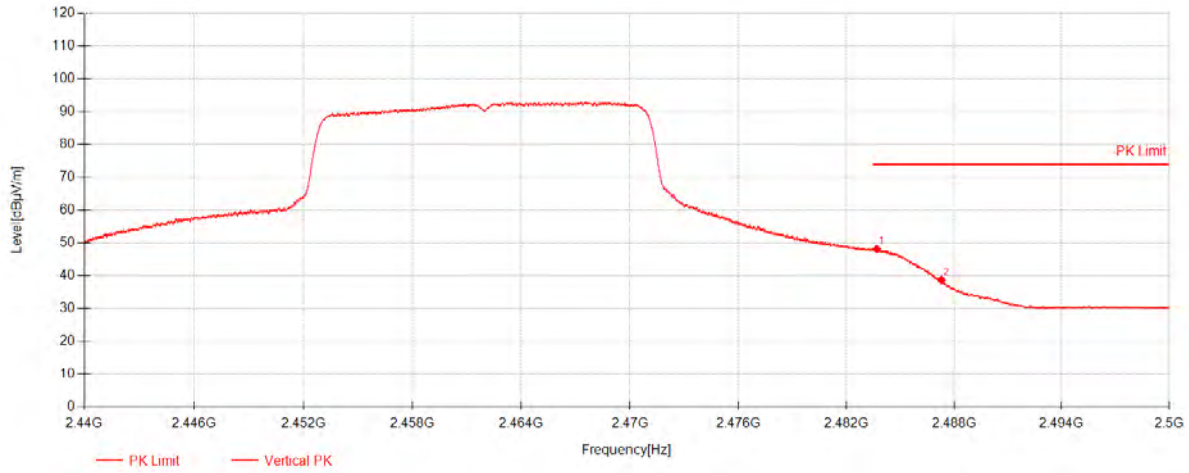


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802.11n20_Channel 1



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	2483.695	43.97	27.72	-23.54	48.14	74.00	25.86	263	234	Vertical
2	2487.295	34.52	27.73	-23.54	38.70	74.00	35.30	263	234	Vertical

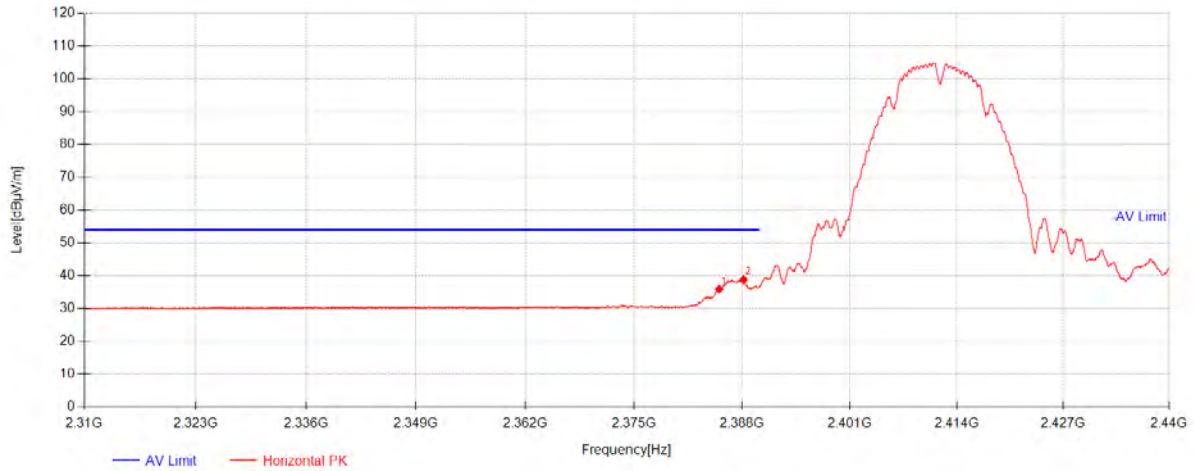


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802.11g_Channel 01



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	2385.2267	32.07	27.43	-23.57	35.93	54.00	18.07	210	275	Horizontal
2	2388.1733	34.94	27.43	-23.57	38.80	54.00	15.20	210	275	Horizontal

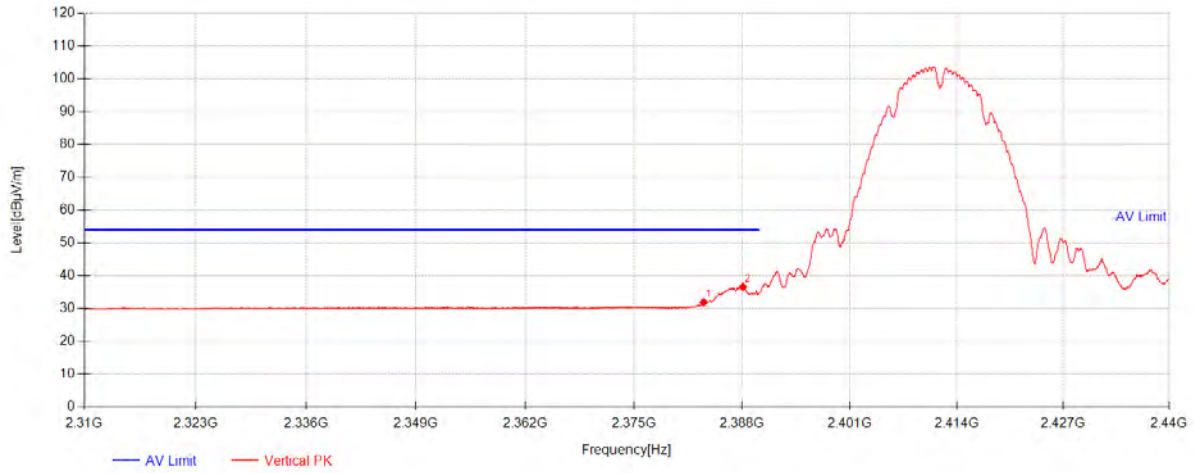


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802.11g_Channel 01



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	2383.3633	28.02	27.43	-23.57	31.88	54.00	22.12	165	263	Vertical
2	2388.0867	32.71	27.43	-23.57	36.57	54.00	17.43	165	263	Vertical

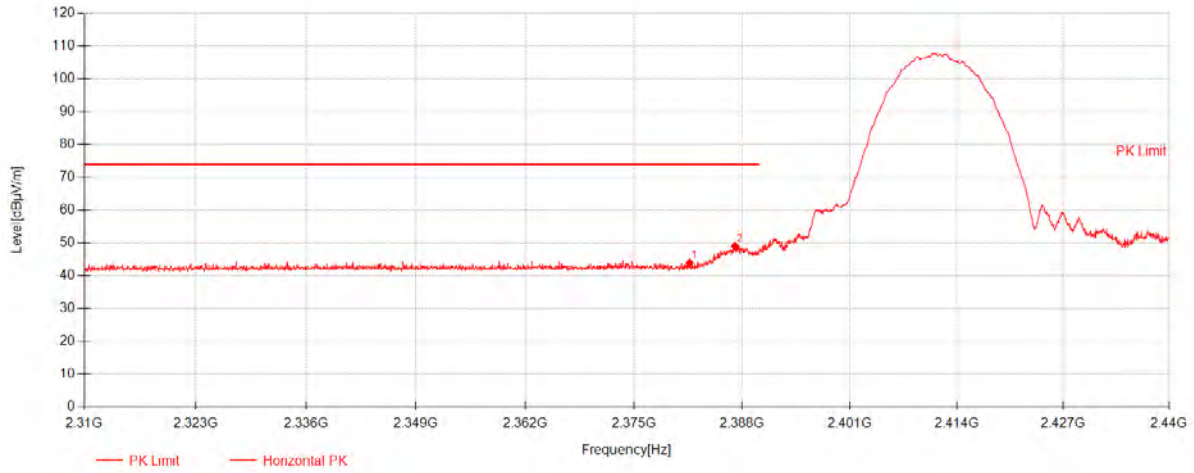


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802.11g_Channel 01



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	2381.6733	40.03	27.43	-23.57	43.89	74.00	30.11	210	275	Horizontal
2	2387.1333	45.15	27.43	-23.57	49.01	74.00	24.99	210	275	Horizontal

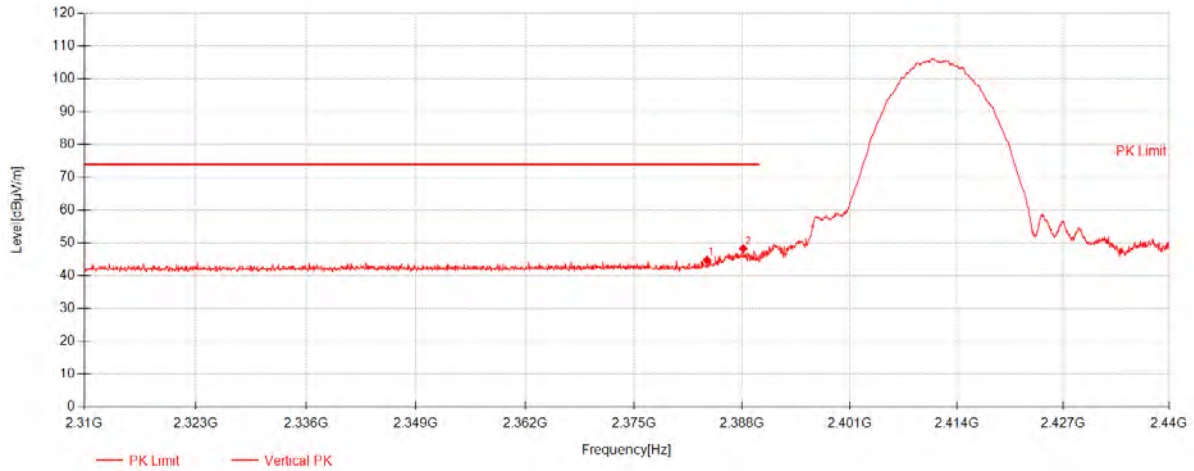


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802.11g_Channel 01



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	2383.7533	40.90	27.43	-23.57	44.76	74.00	29.24	165	263	Vertical
2	2388.13	44.40	27.43	-23.57	48.26	74.00	25.74	165	263	Vertical

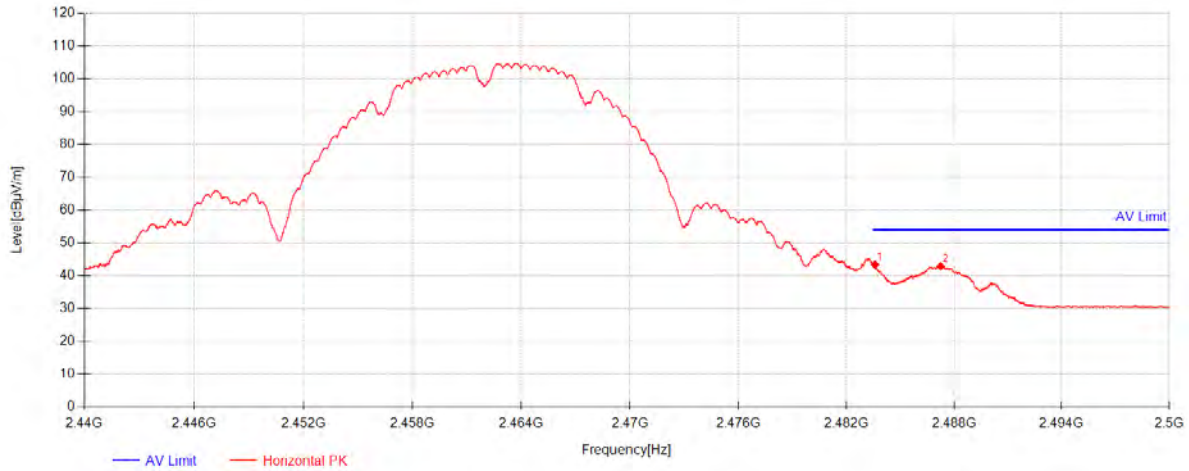


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802.11g_Channel 11



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	2483.5975	39.23	27.72	-23.54	43.40	54.00	10.60	201	283	Horizontal
2	2487.25	38.71	27.73	-23.54	42.89	54.00	11.11	201	283	Horizontal

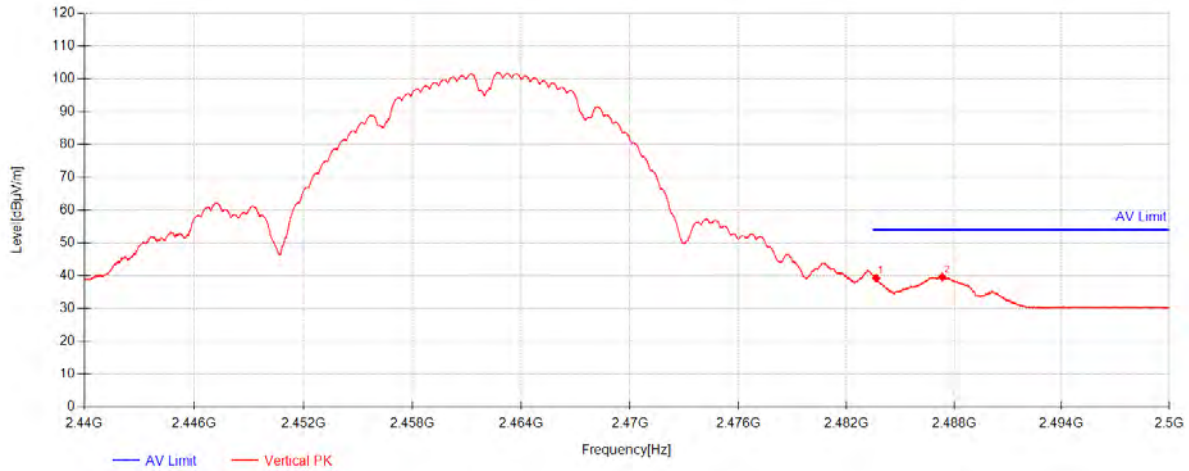


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802.11g_Channel 11



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	2483.665	35.07	27.72	-23.54	39.24	54.00	14.76	168	234	Vertical
2	2487.34	35.37	27.73	-23.54	39.55	54.00	14.45	168	234	Vertical

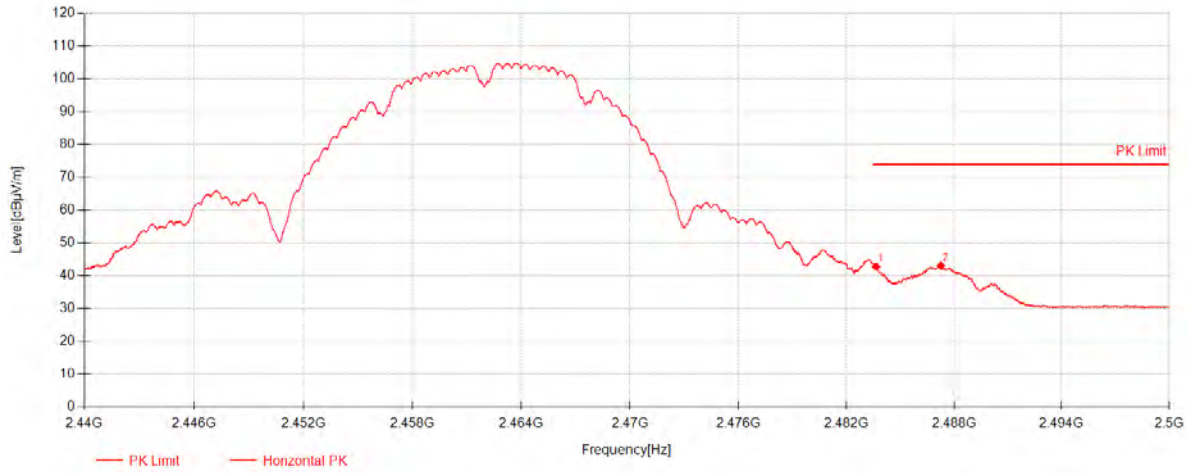


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802.11g_Channel 11



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	2483.6575	38.64	27.72	-23.54	42.81	74.00	31.19	201	283	Horizontal
2	2487.265	38.91	27.73	-23.54	43.09	74.00	30.91	201	283	Horizontal

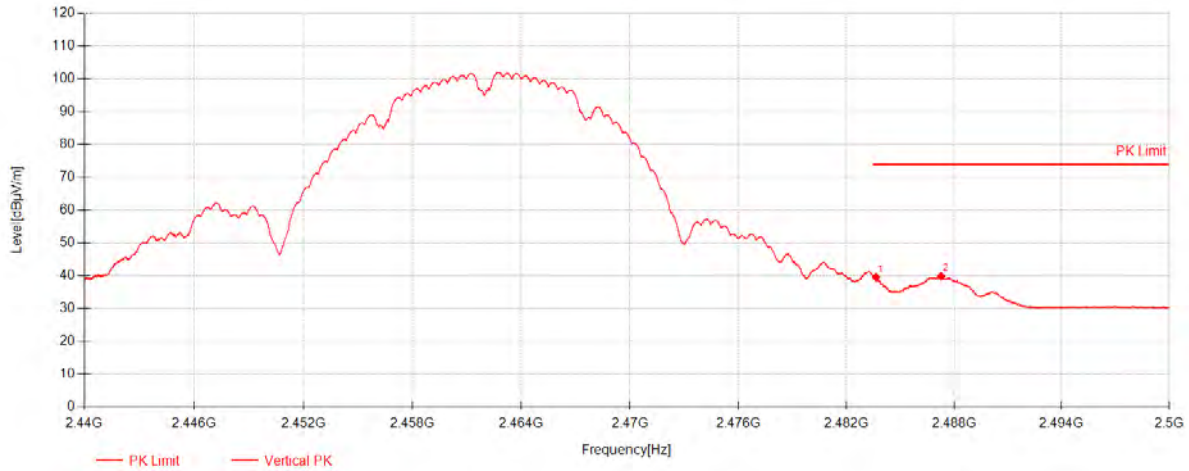


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802.11g_Channel 11



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	2483.65	35.36	27.72	-23.54	39.53	74.00	34.47	168	234	Vertical
2	2487.28	35.64	27.73	-23.54	39.82	74.00	34.18	168	234	Vertical

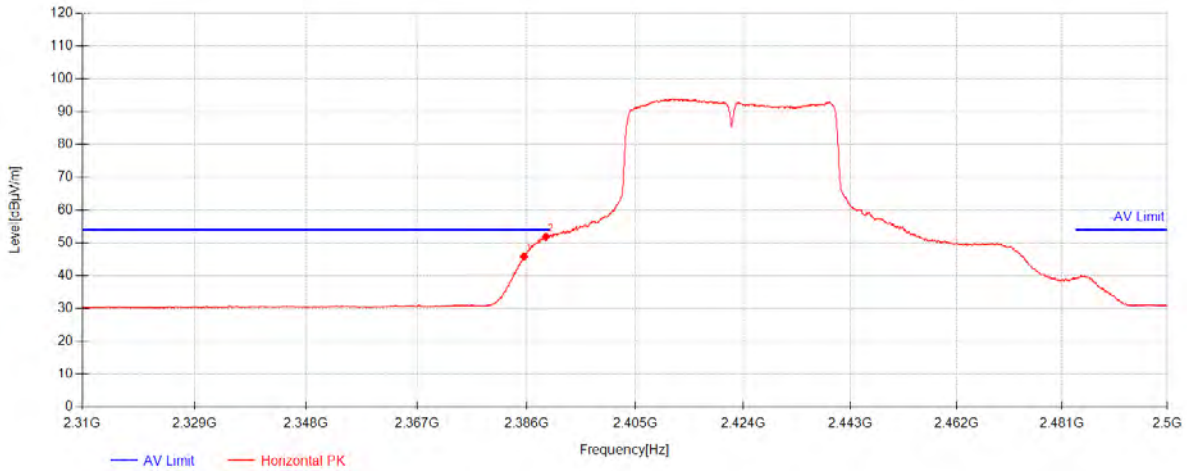


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802.11n40_Channel 01



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	2385.5733	41.99	27.43	-23.57	45.85	54.00	8.15	155	281	Horizontal
2	2389.3867	48.07	27.43	-23.57	51.93	54.00	2.07	155	281	Horizontal

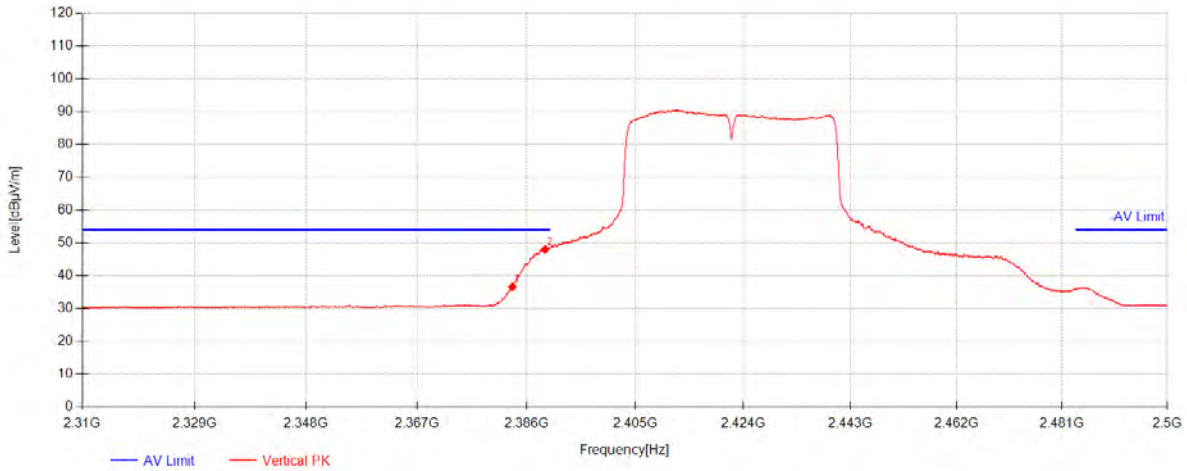


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802.11n40_Channel 01



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	2383.5367	32.74	27.43	-23.57	36.60	54.00	17.40	188	282	Vertical
2	2389.2567	44.12	27.43	-23.57	47.98	54.00	6.02	188	282	Vertical

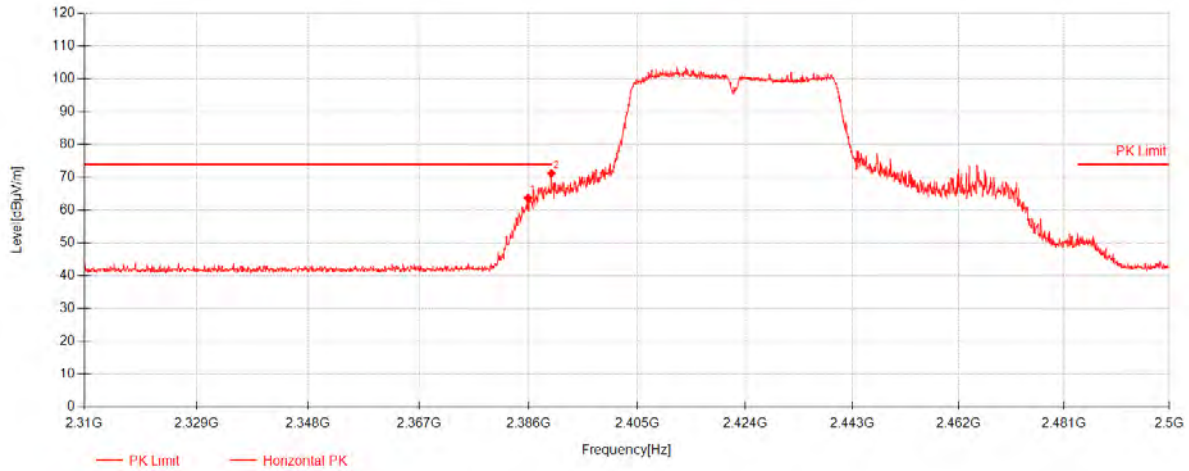


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802.11n40_Channel 01



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	2385.92	59.83	27.43	-23.57	63.69	74.00	10.31	155	281	Horizontal
2	2389.9933	67.35	27.43	-23.57	71.21	74.00	2.79	155	281	Horizontal

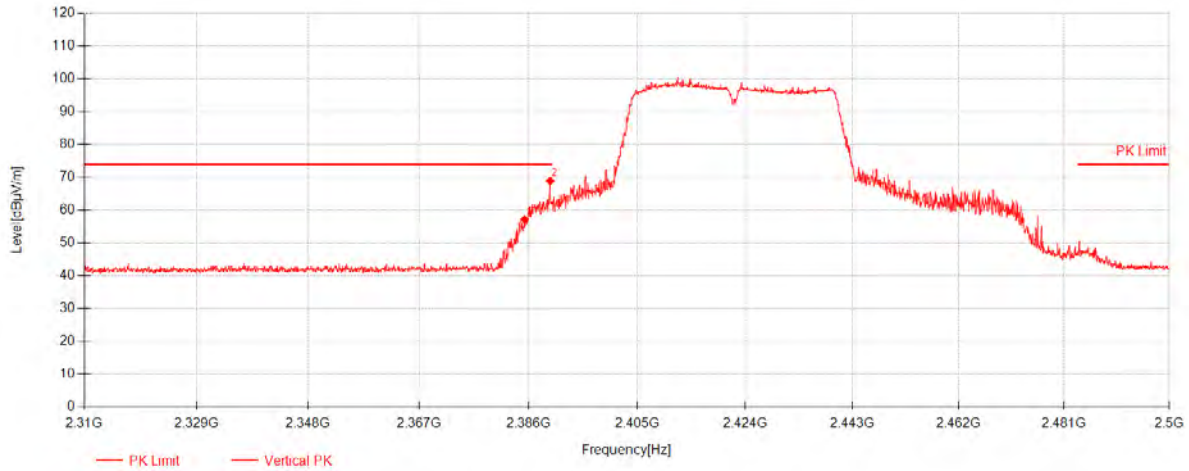


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.3133	53.32	27.43	-23.57	57.18	74.00	16.82	188	282	Vertical
2	2389.7767	65.06	27.43	-23.57	68.92	74.00	5.08	188	282	Vertical

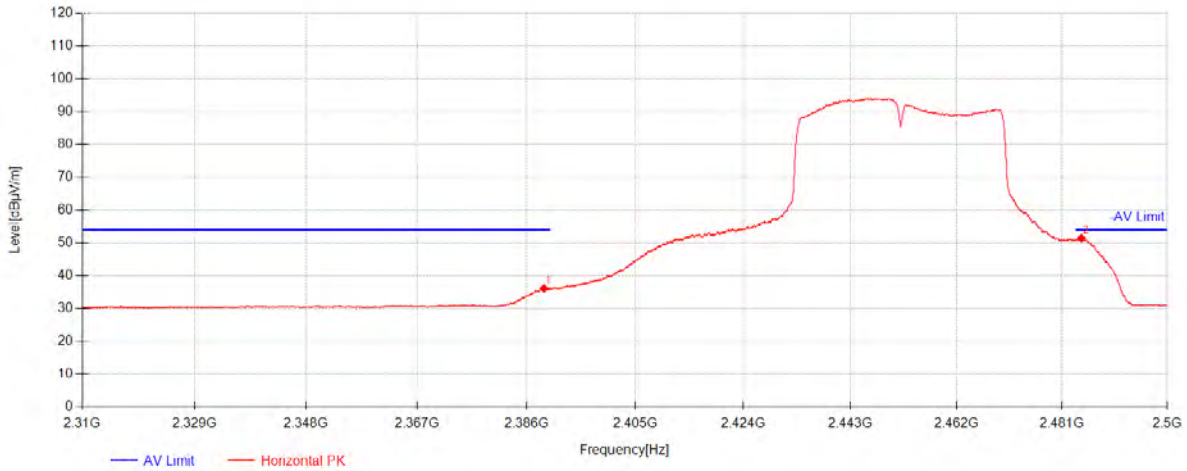


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802.11n40_Channel 09



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	2389.04	32.30	27.43	-23.57	36.16	54.00	17.84	184	282	Horizontal
2	2484.46	47.30	27.72	-23.54	51.47	54.00	2.53	184	282	Horizontal

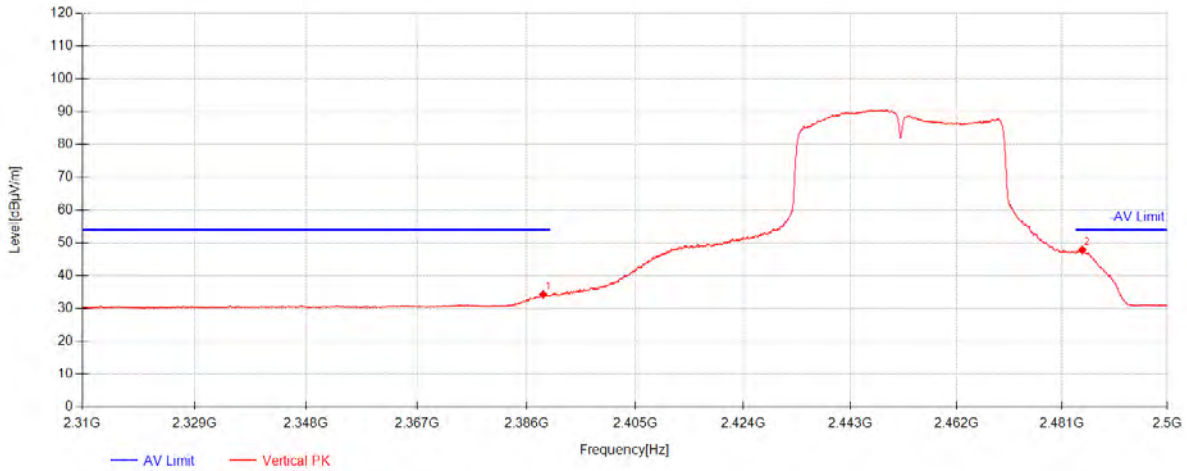


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802.11n40_Channel 09



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	2388.91	30.43	27.43	-23.57	34.29	54.00	19.71	187	228	Vertical
2	2484.64	43.63	27.72	-23.54	47.80	54.00	6.20	187	228	Vertical

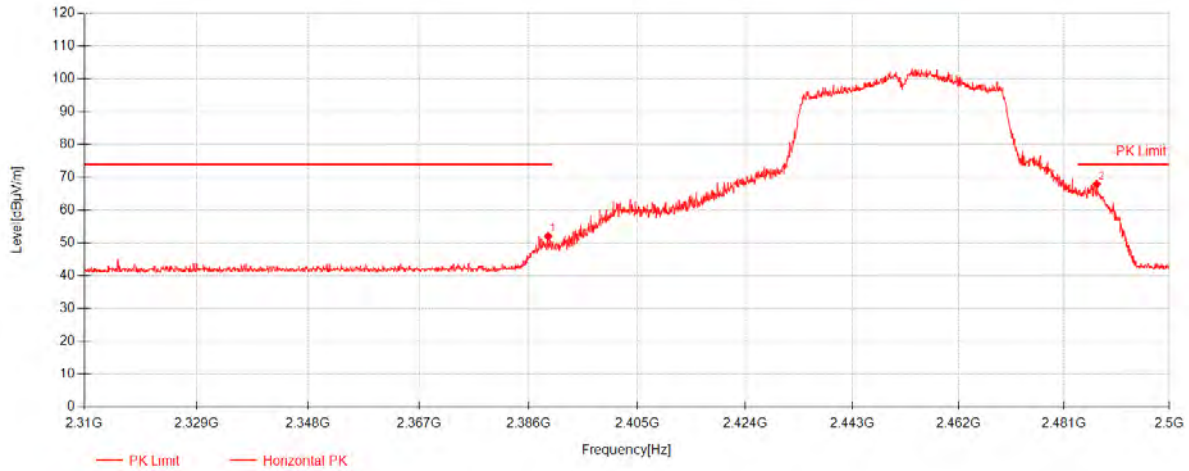


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.43	48.22	27.43	-23.57	52.08	74.00	21.92	184	282	Horizontal
2	2486.86	63.78	27.73	-23.54	67.96	74.00	6.04	184	282	Horizontal

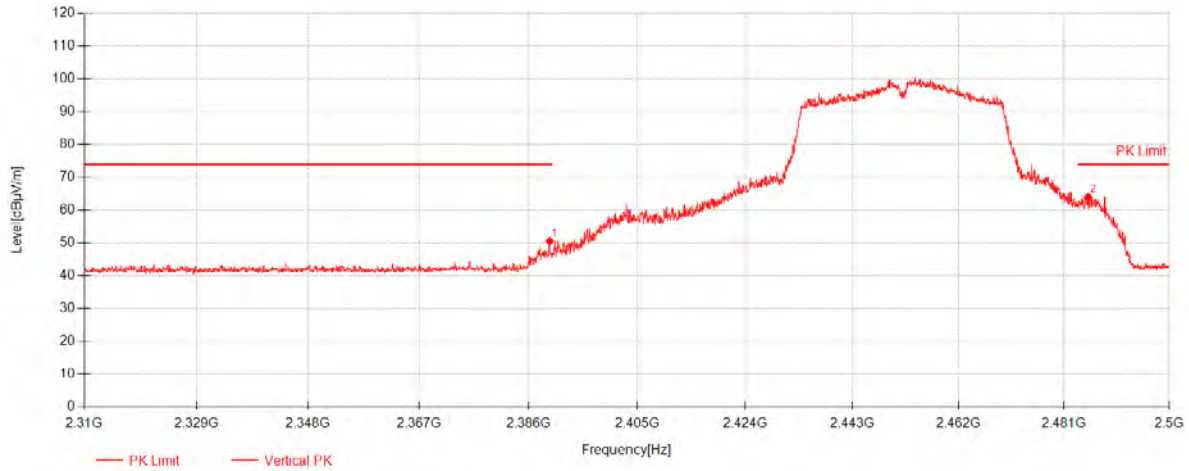


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Data List										
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1	2389.69	46.73	27.43	-23.57	50.59	74.00	23.41	187	228	Vertical
2	2485.3	59.81	27.72	-23.54	63.99	74.00	10.01	187	228	Vertical

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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

