

Report No.: SEWM2304000115RG07
 Rev.: 01
 Page: 1 of 113



TEST REPORT

Application No.: SEWM2304000115RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
EUT Description: Smart Phone
Model No.: U380AA, U380AC
FCC ID: XD6U380AA
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/20
Date of Test: 2023/05/09 to 2023/05/26
Date of Issue: 2023/05/26

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		2023/05/26		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:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

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:

- **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.:	U380AA, U380AC	
Hardware Version:	V1.0	
Software Version:	U380AAV01.09.10	
IMEI:	RF Conducted	860719060004821
	RSE & AC power line	860719060004334
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:	0.26dBi(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	3.85
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 0.26dBi(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>



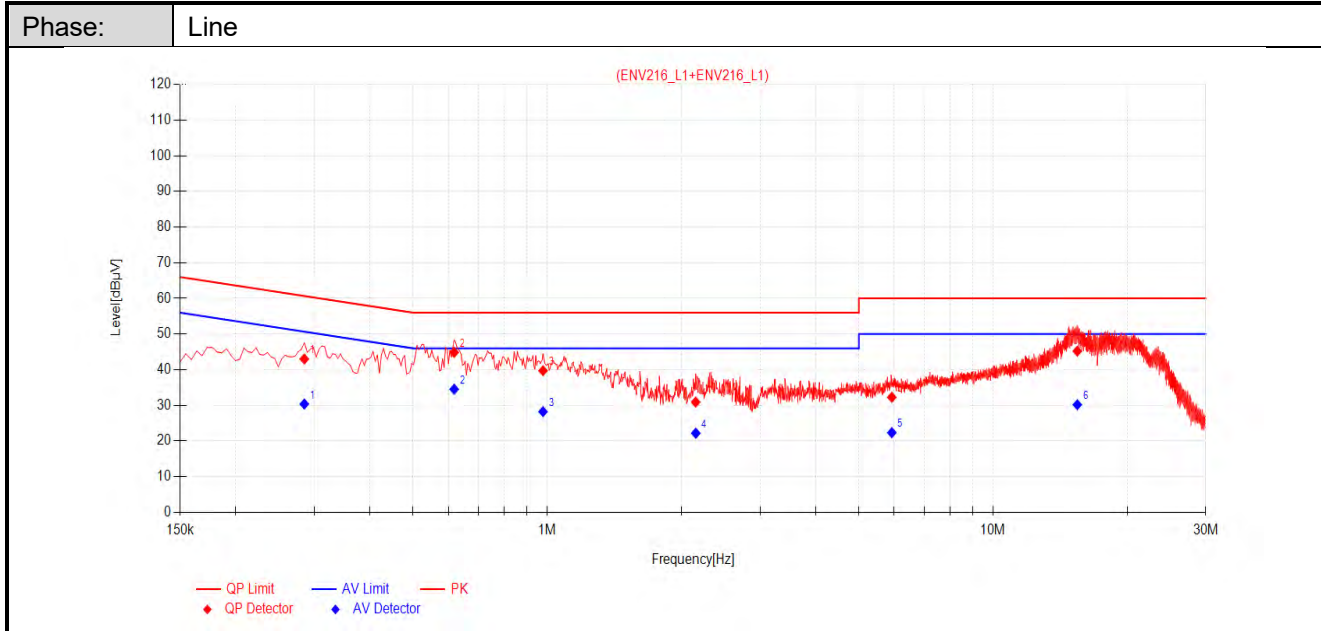
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Measurement Data

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.

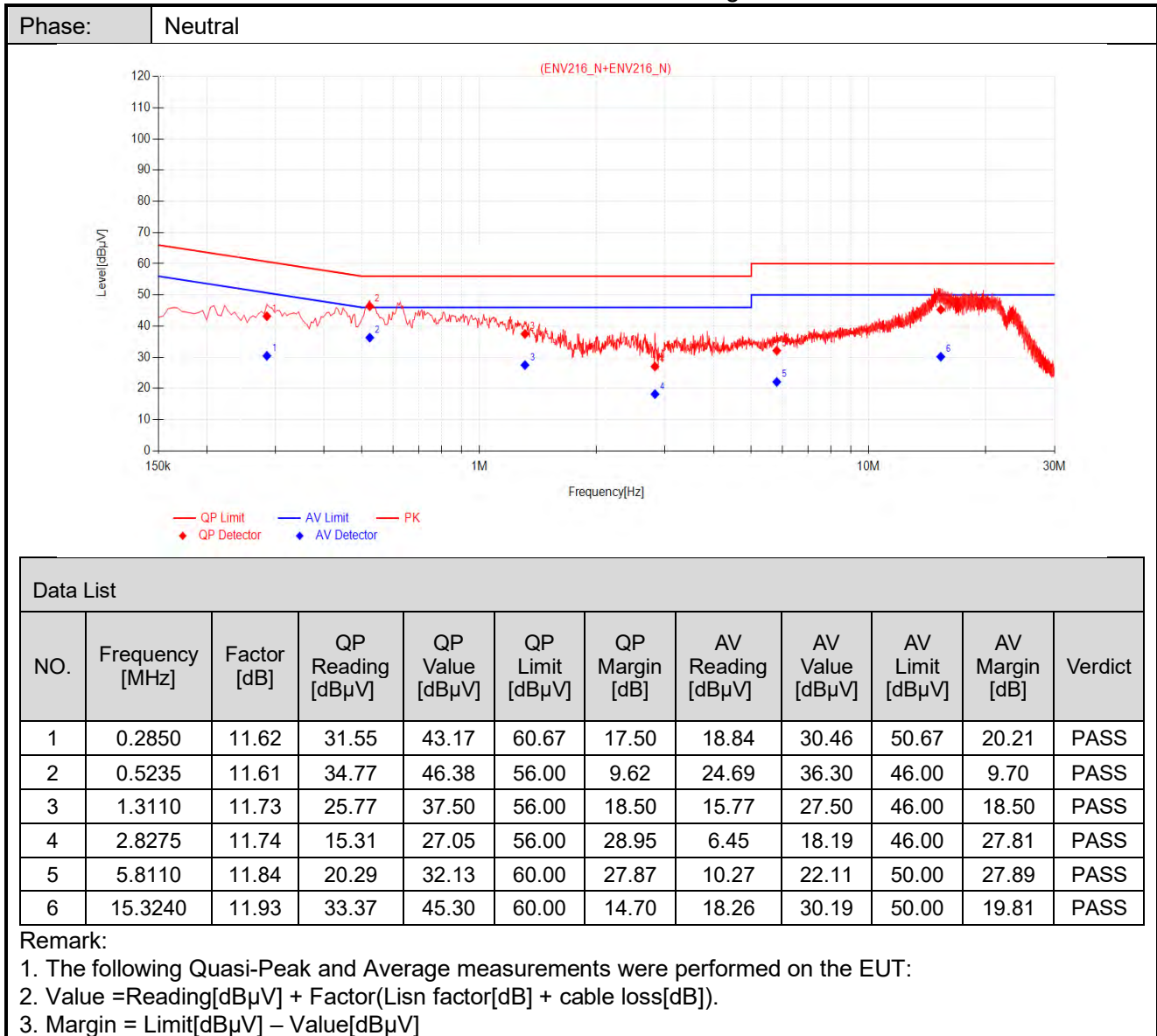


Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2850	11.62	31.39	43.01	60.67	17.66	18.76	30.38	50.67	20.29	PASS
2	0.6180	11.64	33.22	44.86	56.00	11.14	22.88	34.52	46.00	11.48	PASS
3	0.9780	11.72	27.99	39.71	56.00	16.29	16.51	28.23	46.00	17.77	PASS
4	2.1525	11.73	19.19	30.92	56.00	25.08	10.46	22.19	46.00	23.81	PASS
5	5.9280	11.84	20.43	32.27	60.00	27.73	10.50	22.34	50.00	27.66	PASS
6	15.4545	11.94	33.26	45.20	60.00	14.80	18.23	30.17	50.00	19.83	PASS

Remark:

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





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Report No.: SEWM2304000115RG07

Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 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:

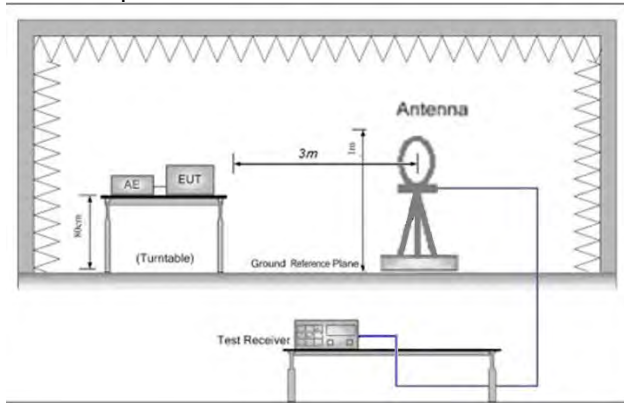


Figure 1. Below 30MHz

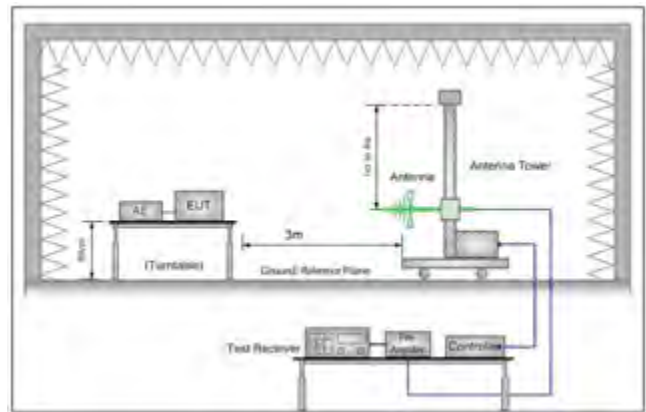


Figure 2. 30MHz to 1GHz

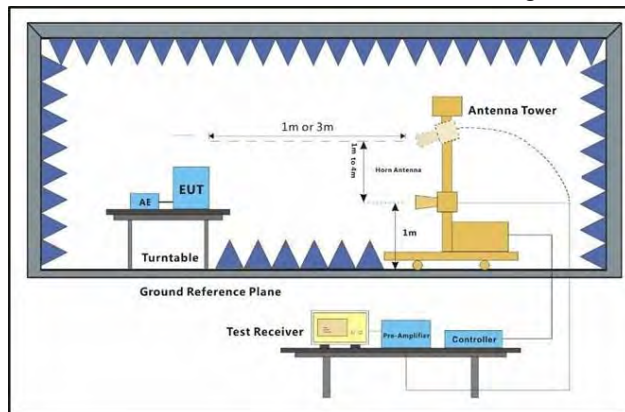


Figure 3. Above 1 GHz

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:

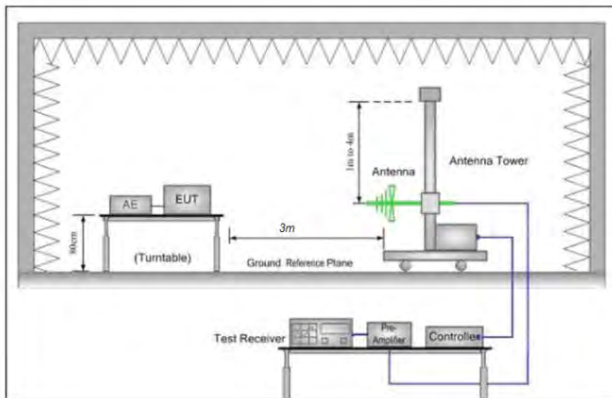


Figure 1. 30MHz to 1GHz

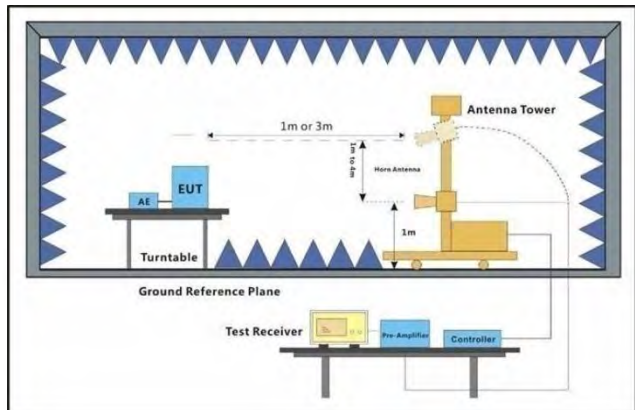


Figure 2. Above 1 GHz



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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
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
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
				2023/05/11	2024/05/10
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

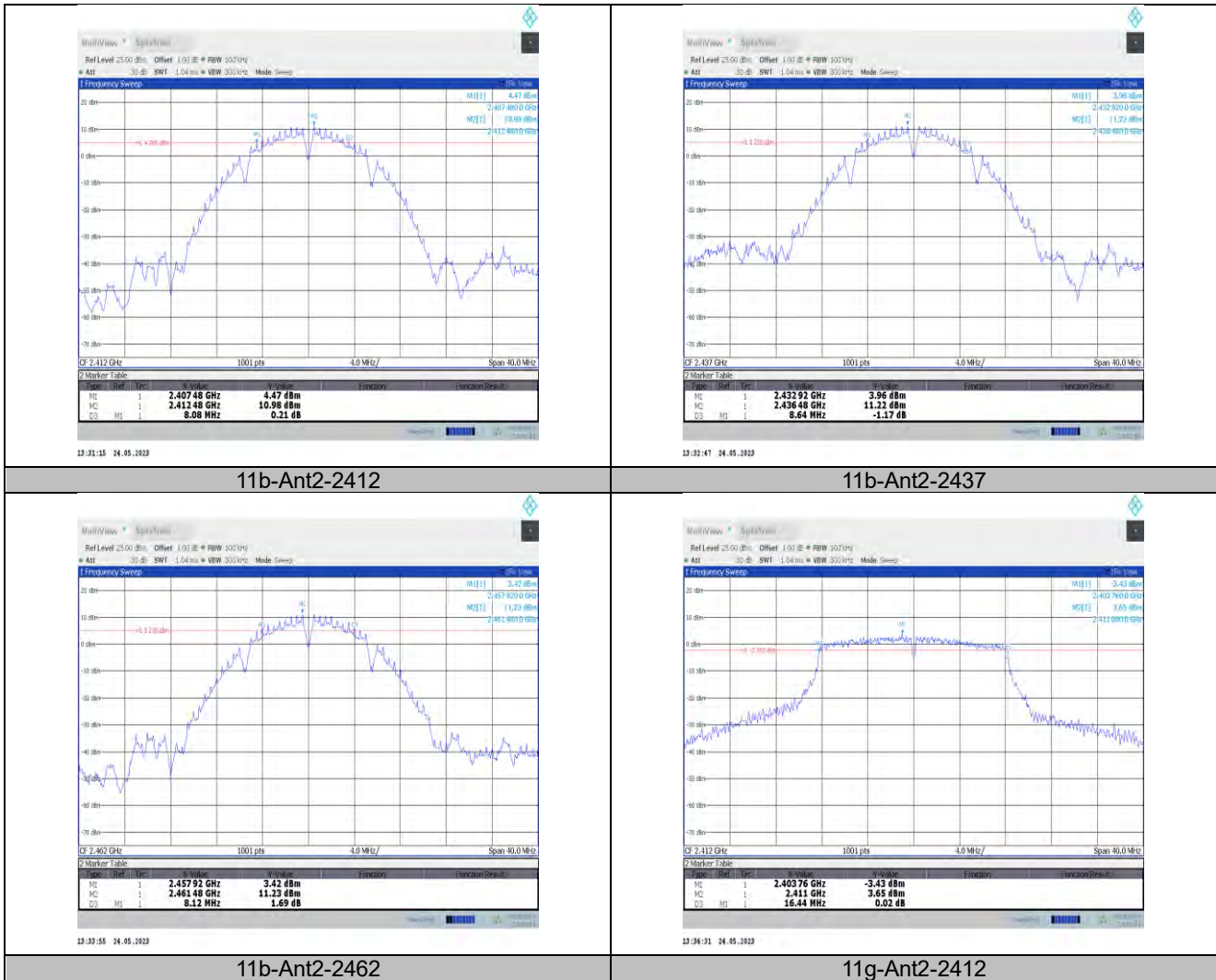
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant2	2412	8.08	2407.48	2415.56	≥0.5	PASS
11b	Ant2	2437	8.64	2432.92	2441.56	≥0.5	PASS
11b	Ant2	2462	8.12	2457.92	2466.04	≥0.5	PASS
11g	Ant2	2412	16.44	2403.76	2420.20	≥0.5	PASS
11g	Ant2	2437	16.40	2428.80	2445.20	≥0.5	PASS
11g	Ant2	2462	16.40	2453.80	2470.20	≥0.5	PASS
11n20SISO	Ant2	2412	17.72	2403.12	2420.84	≥0.5	PASS
11n20SISO	Ant2	2437	17.68	2428.16	2445.84	≥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	32.72	2422.52	2455.24	≥0.5	PASS
11n40SISO	Ant2	2452	36.48	2433.76	2470.24	≥0.5	PASS



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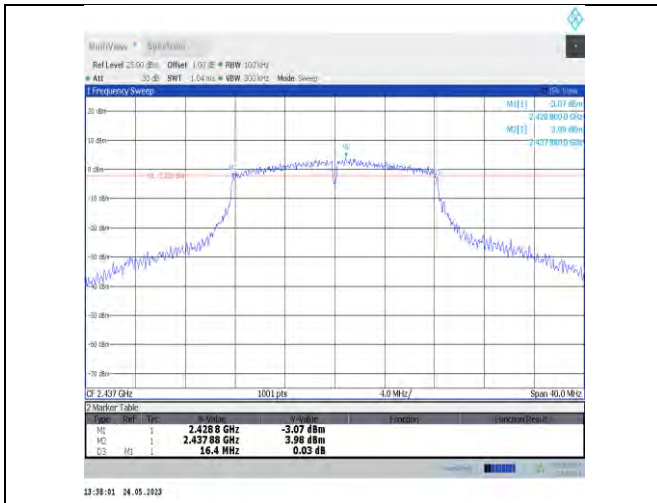
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Test Graphs

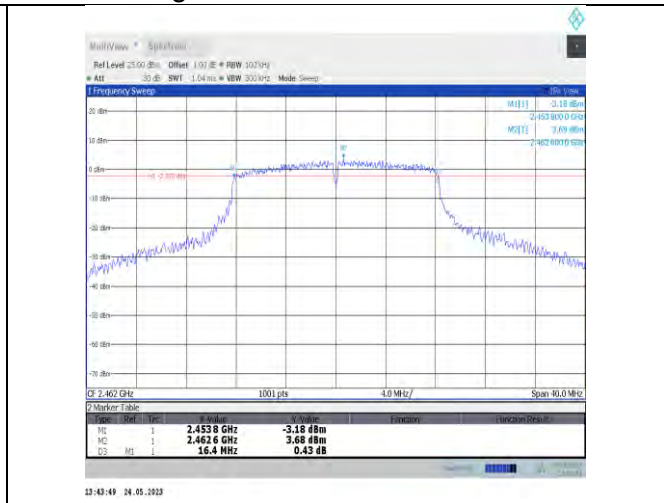


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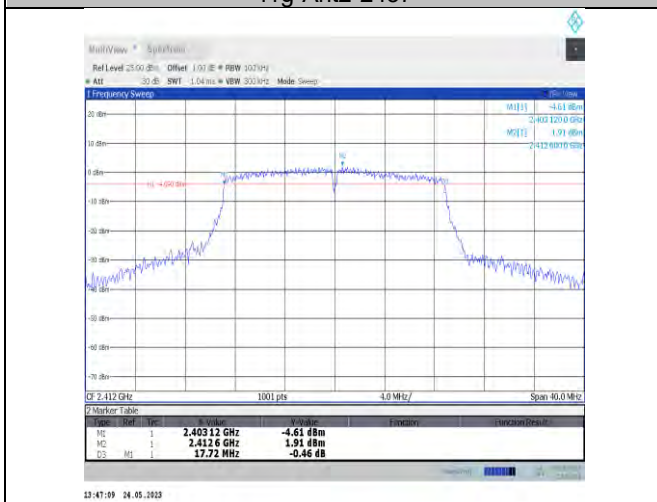
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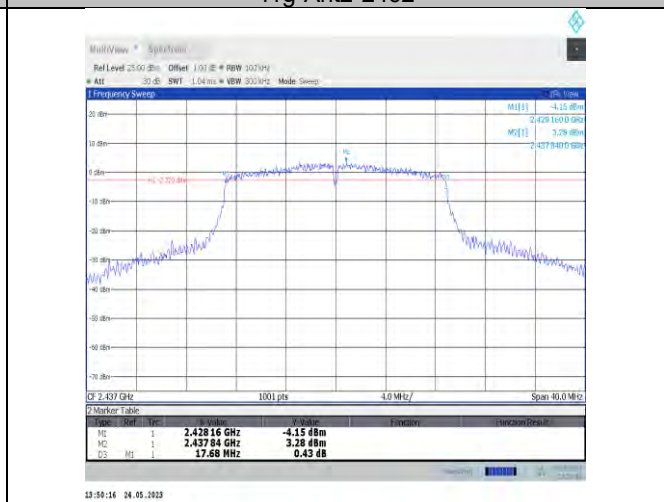
11g-Ant2-2437



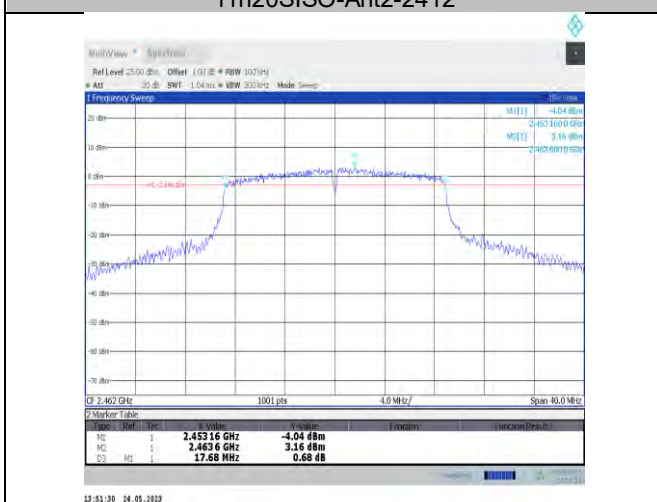
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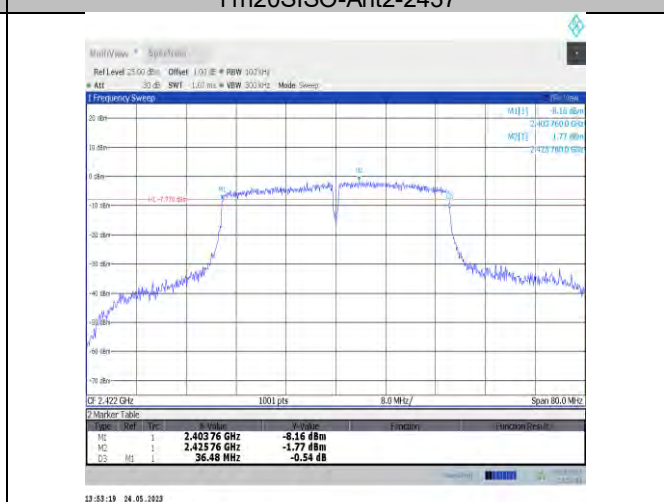
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11n20SISO-Ant2-2437



11n20SISO-Ant2-2462

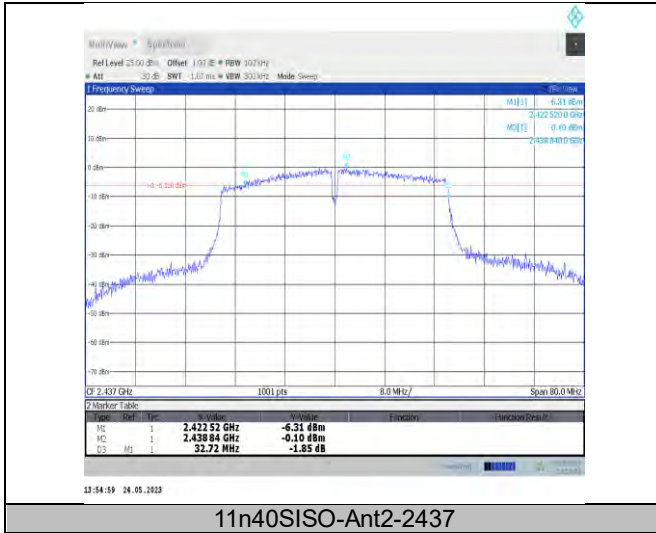


11n40SISO-Ant2-2422

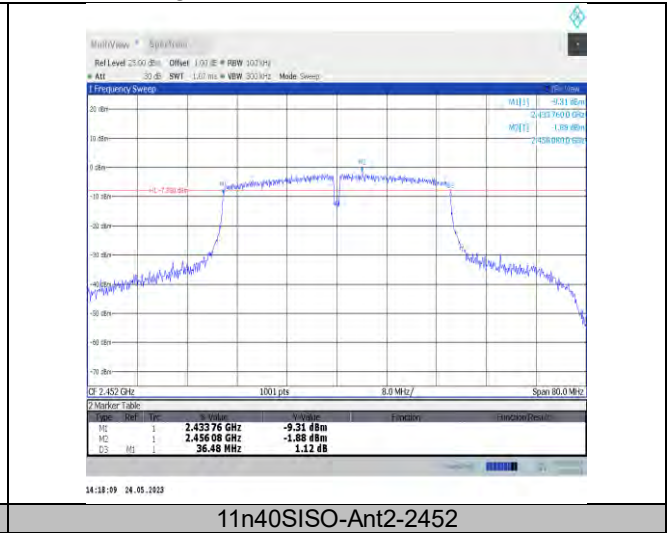


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11n40SISO-Ant2-2452



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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant2	2412	13.085	2405.3394	2418.4244	For Report Purpose
11b	Ant2	2437	13.004	2430.5419	2443.5457	
11b	Ant2	2462	13.189	2455.4943	2468.6835	
11g	Ant2	2412	17.144	2403.3487	2420.4929	
11g	Ant2	2437	17.043	2428.5042	2445.5476	
11g	Ant2	2462	17.223	2453.5075	2470.7308	
11n20SISO	Ant2	2412	18.002	2402.9441	2420.9458	
11n20SISO	Ant2	2437	17.944	2428.0778	2446.0215	
11n20SISO	Ant2	2462	18.097	2453.0297	2471.1262	
11n40SISO	Ant2	2422	36.509	2403.8639	2440.3727	
11n40SISO	Ant2	2437	36.118	2419.1445	2455.2620	
11n40SISO	Ant2	2452	36.415	2433.9154	2470.3300	



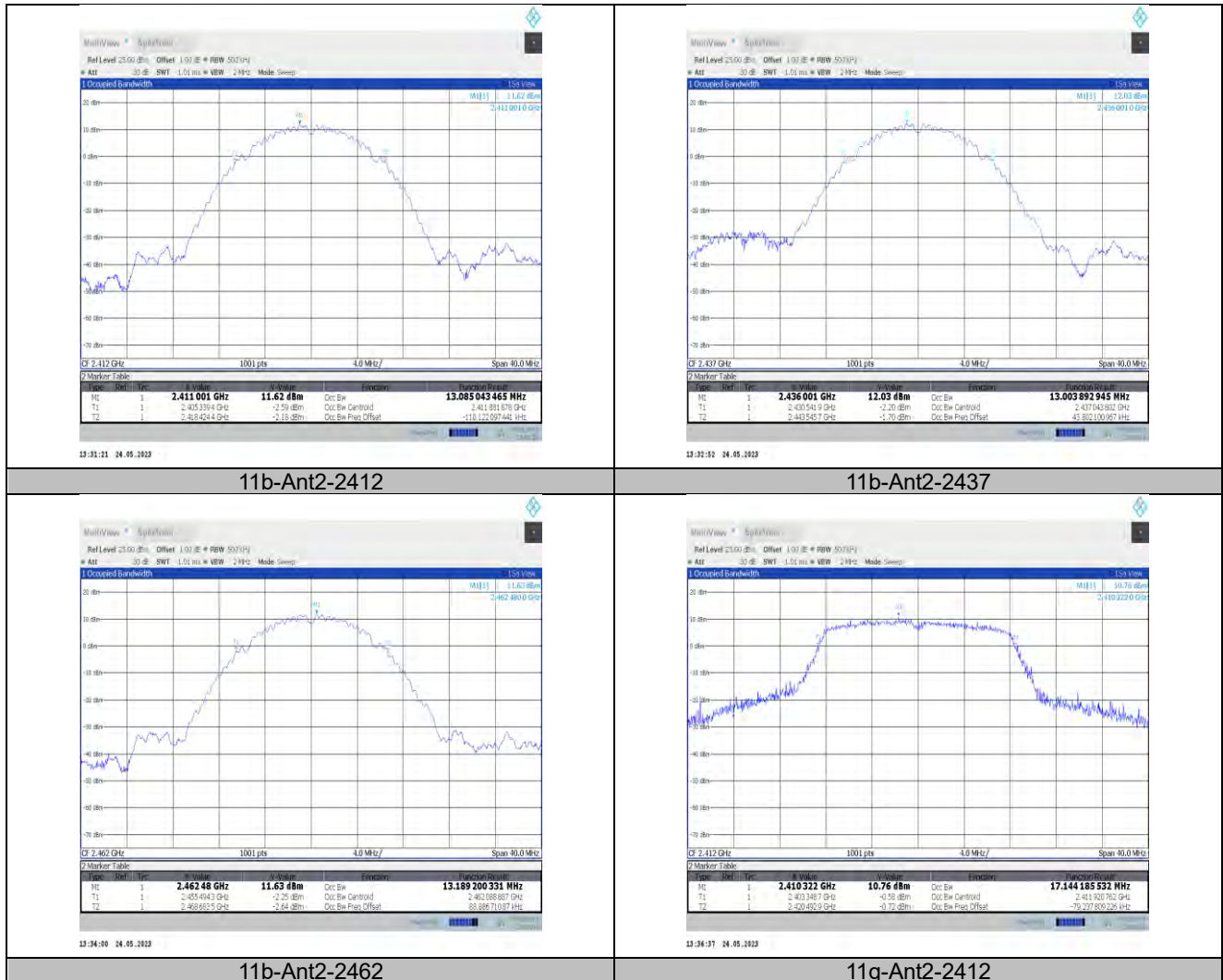
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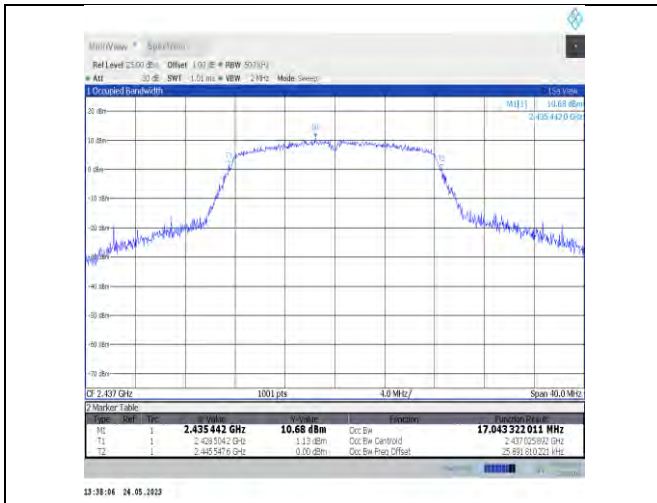
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Test Graphs

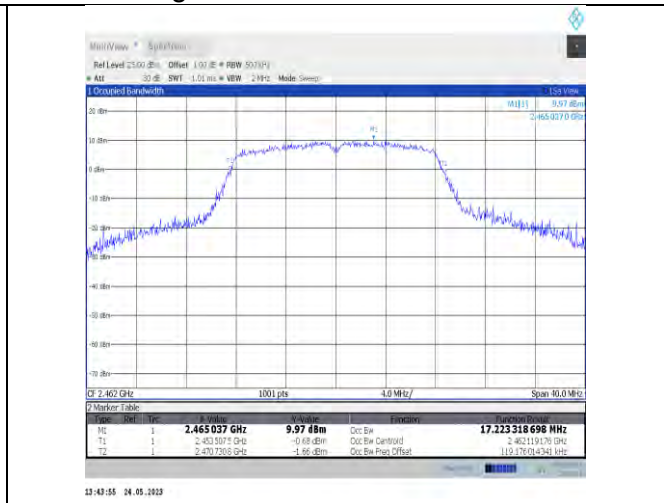


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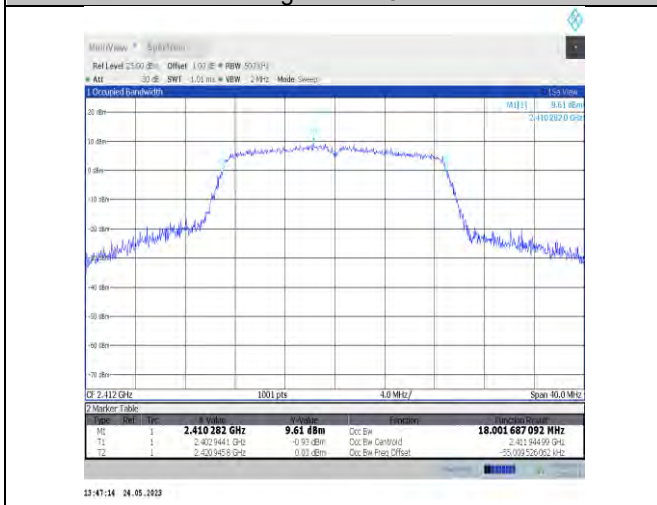
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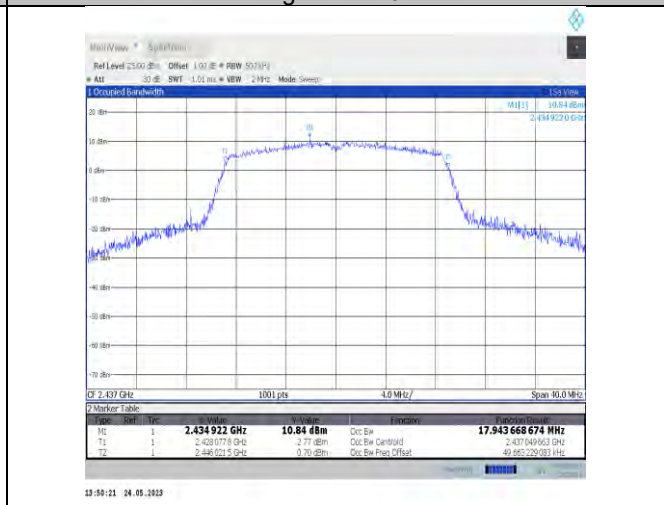
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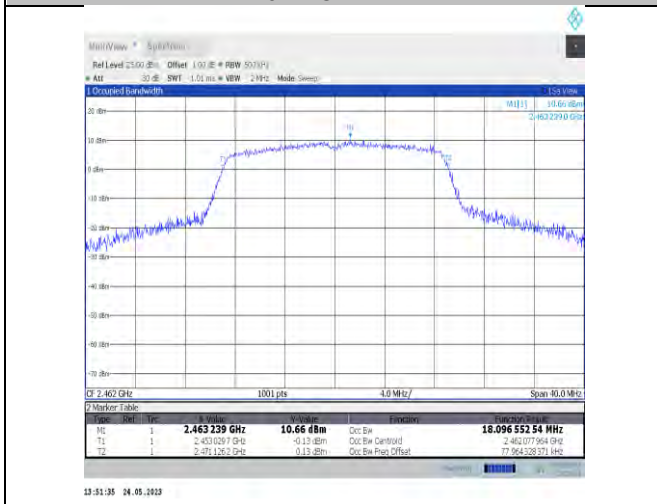
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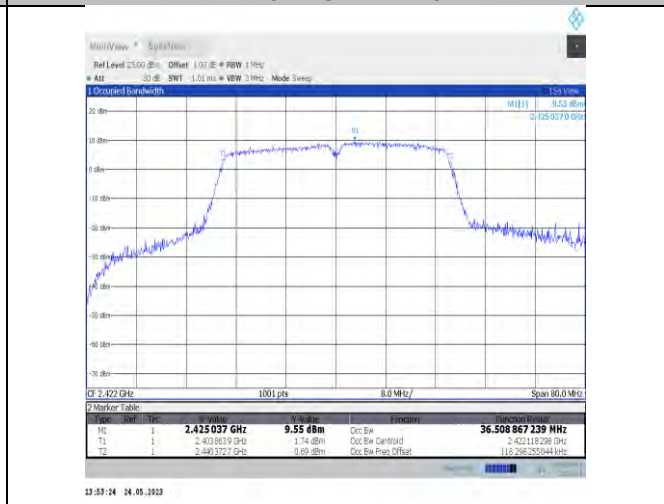
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11n20SISO-Ant2-2437



11n20SISO-Ant2-2462

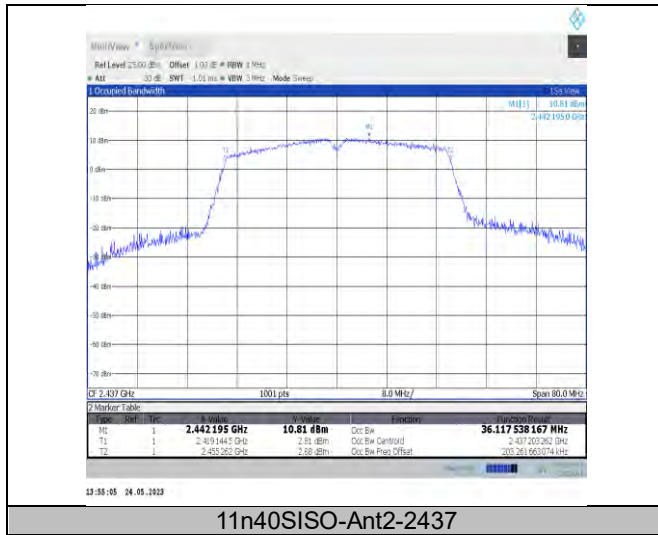


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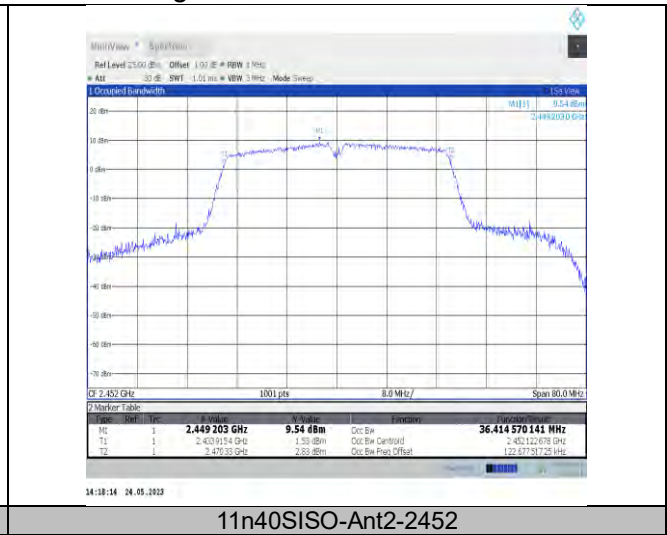


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11n40SISO-Ant2-2437



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	21.00	≤30.00	PASS
11b	Ant2	2437	21.25	≤30.00	PASS
11b	Ant2	2462	21.39	≤30.00	PASS
11g	Ant2	2412	22.68	≤30.00	PASS
11g	Ant2	2437	22.98	≤30.00	PASS
11g	Ant2	2462	23.01	≤30.00	PASS
11n20SISO	Ant2	2412	22.31	≤30.00	PASS
11n20SISO	Ant2	2437	22.35	≤30.00	PASS
11n20SISO	Ant2	2462	22.03	≤30.00	PASS
11n40SISO	Ant2	2422	21.32	≤30.00	PASS
11n40SISO	Ant2	2437	21.21	≤30.00	PASS
11n40SISO	Ant2	2452	21.03	≤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	-2.01	≤8.00	PASS
11b	Ant2	2437	-2.26	≤8.00	PASS
11b	Ant2	2462	-2.08	≤8.00	PASS
11g	Ant2	2412	-7.91	≤8.00	PASS
11g	Ant2	2437	-8.15	≤8.00	PASS
11g	Ant2	2462	-7.52	≤8.00	PASS
11n20SISO	Ant2	2412	-8.93	≤8.00	PASS
11n20SISO	Ant2	2437	-7.25	≤8.00	PASS
11n20SISO	Ant2	2462	-7.24	≤8.00	PASS
11n40SISO	Ant2	2422	-11.77	≤8.00	PASS
11n40SISO	Ant2	2437	-10.5	≤8.00	PASS
11n40SISO	Ant2	2452	-12.76	≤8.00	PASS



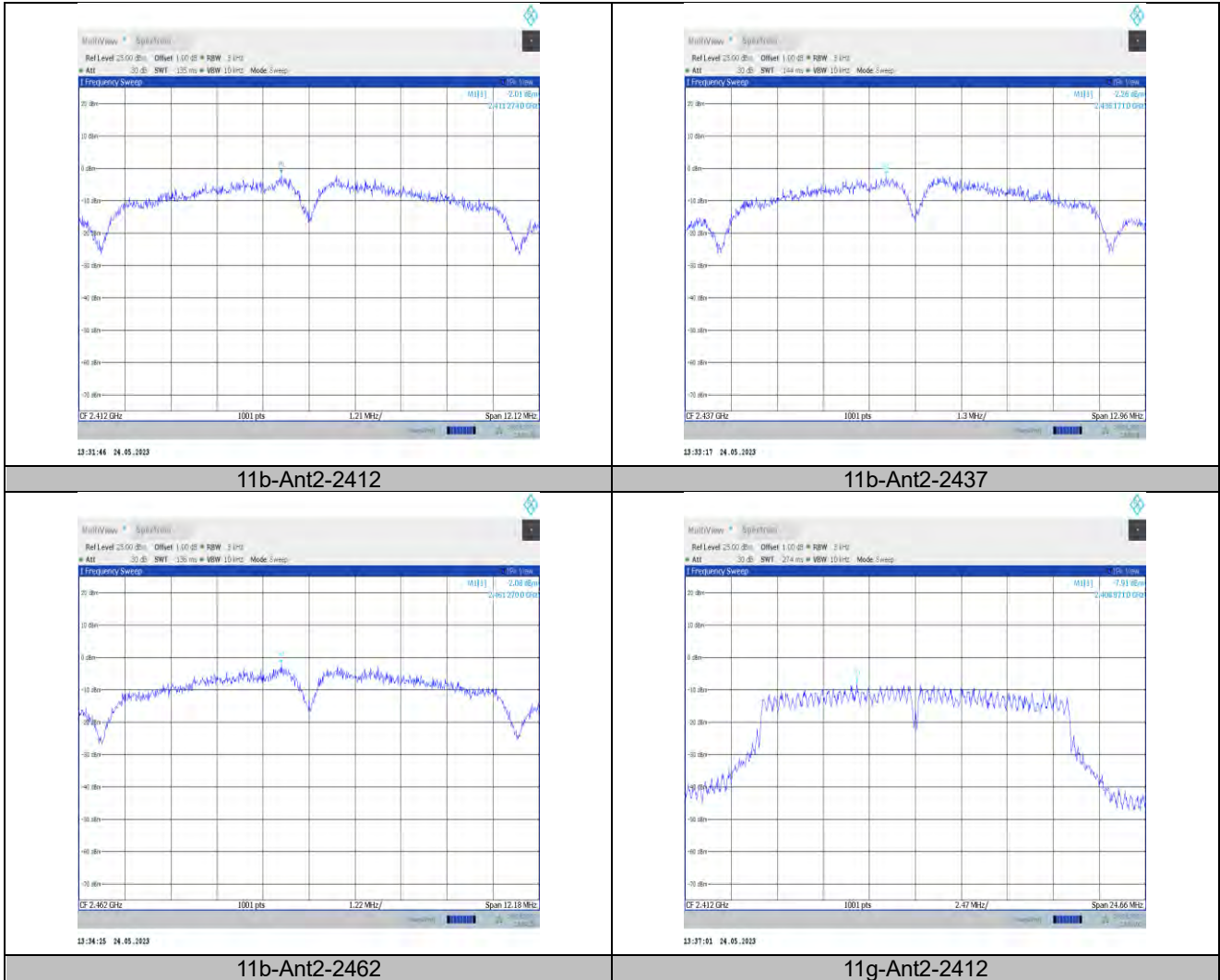
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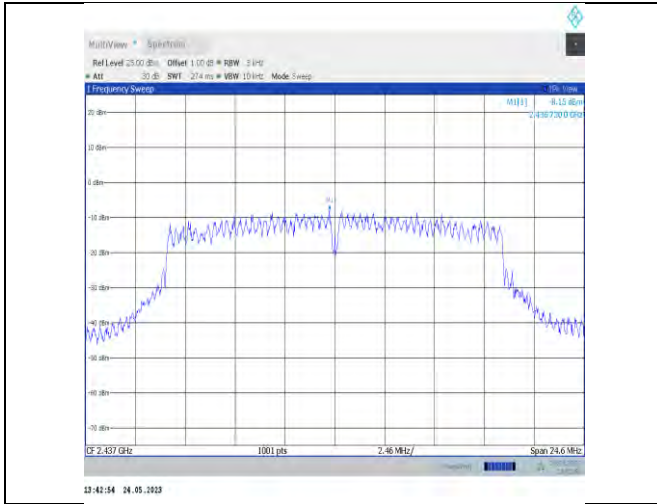
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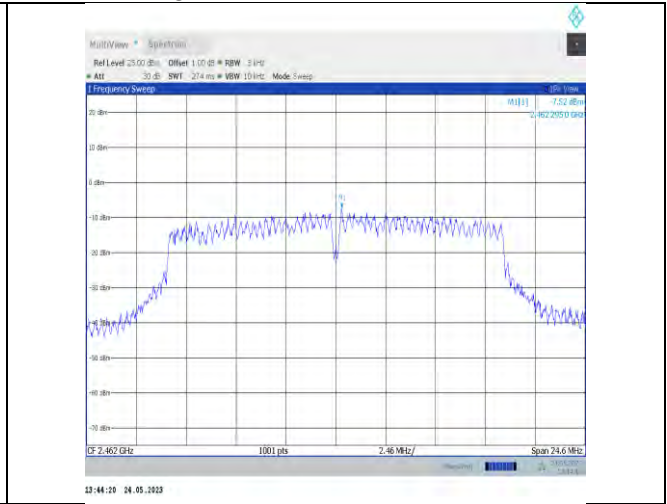


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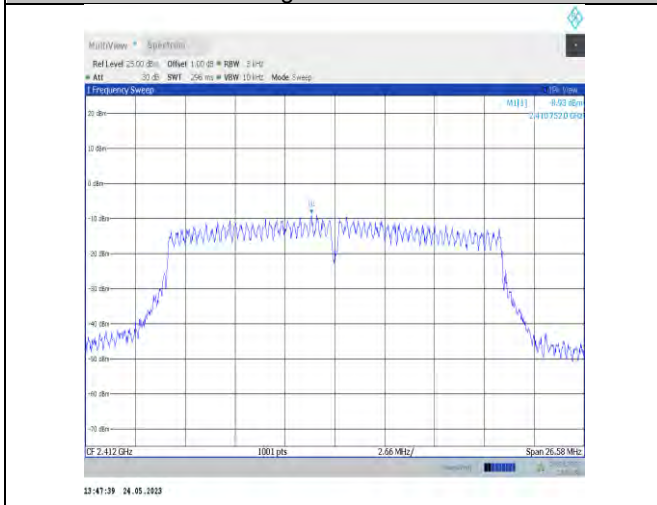
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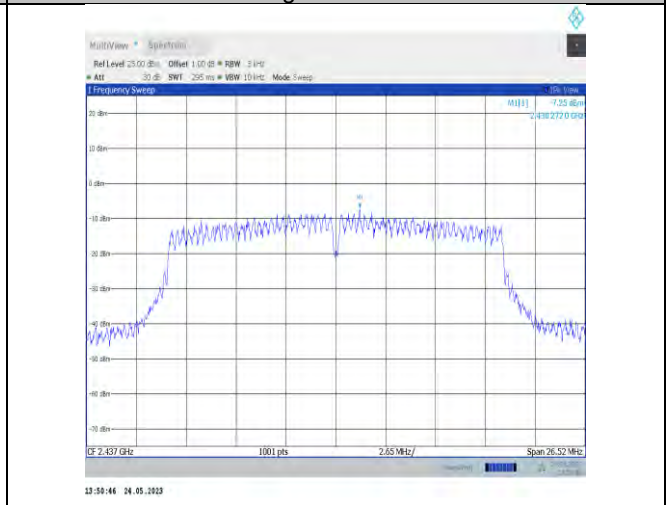
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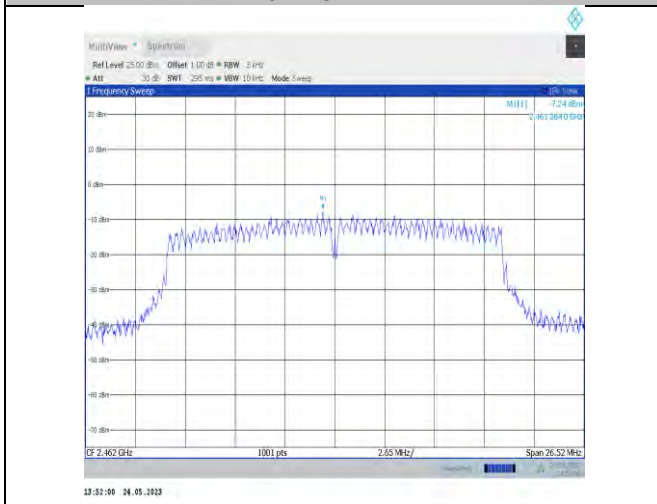
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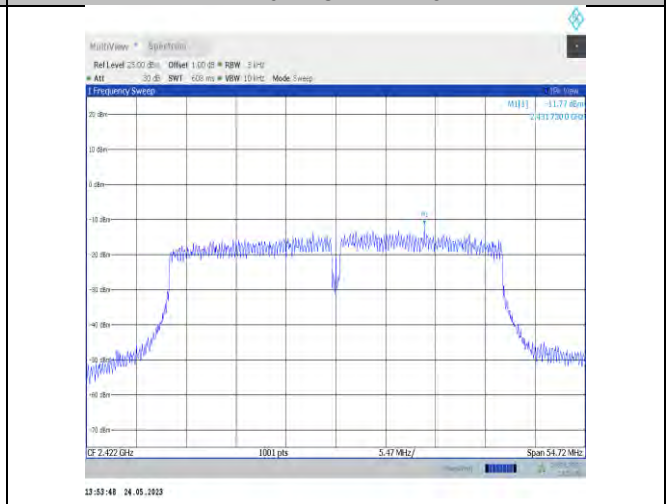
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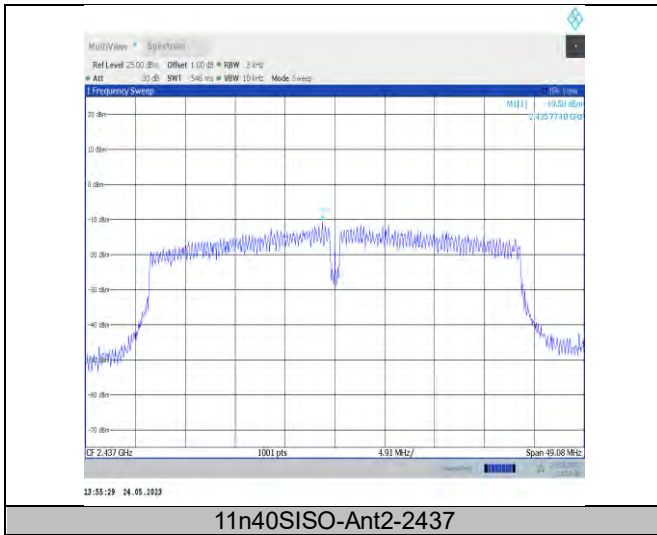


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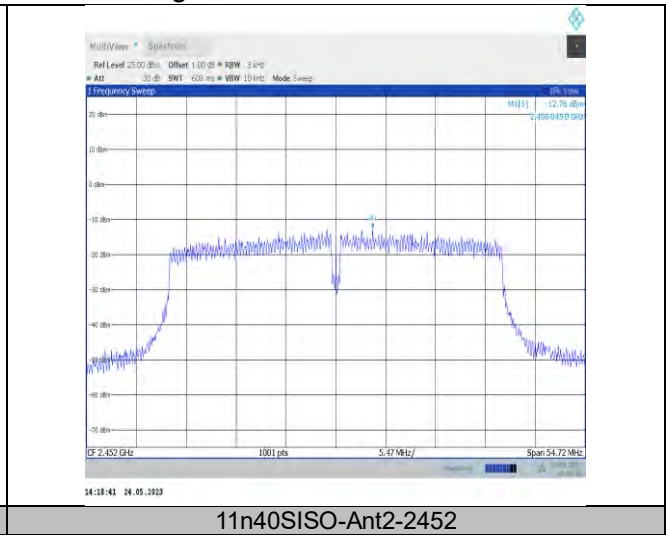


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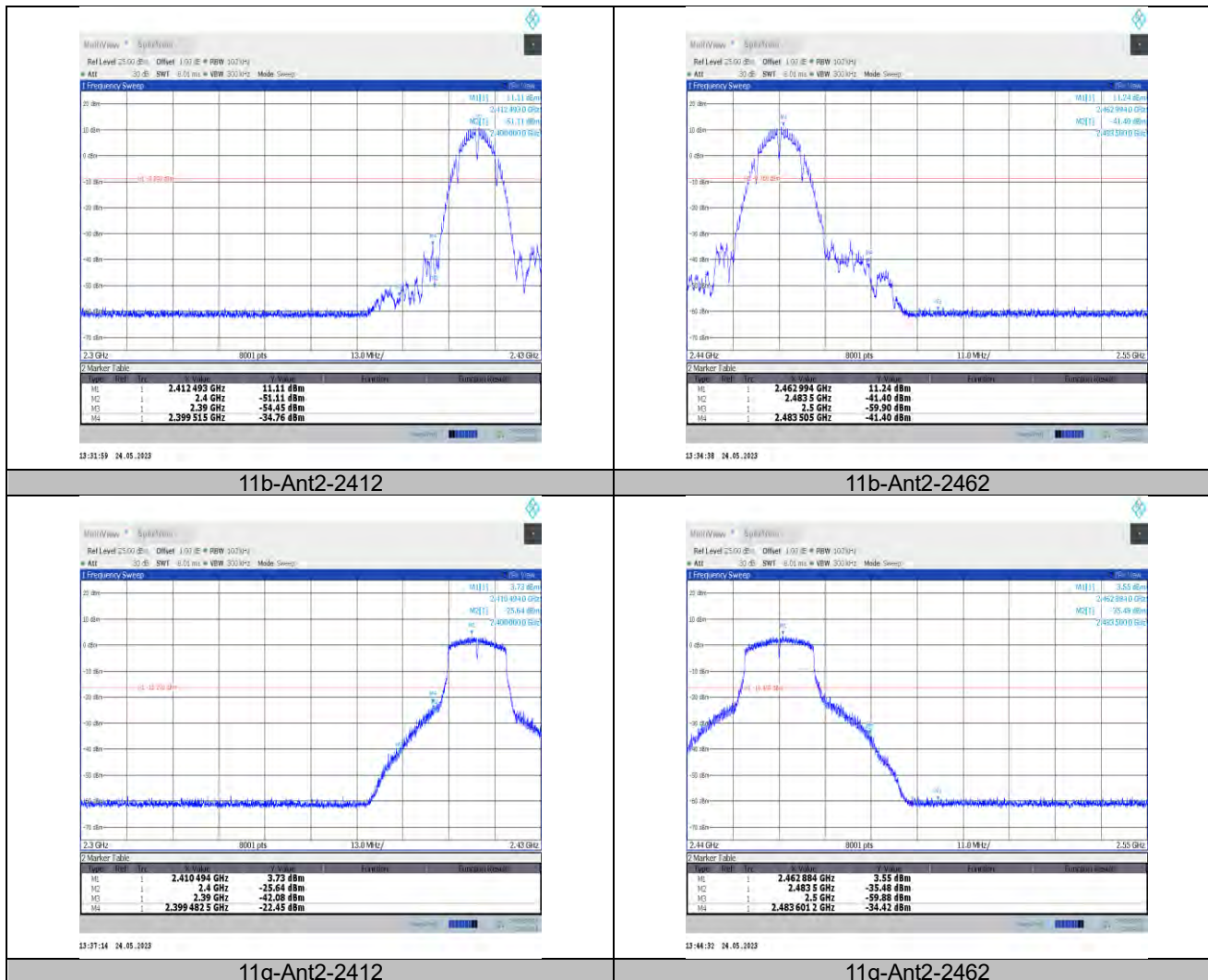
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Band edge measurements

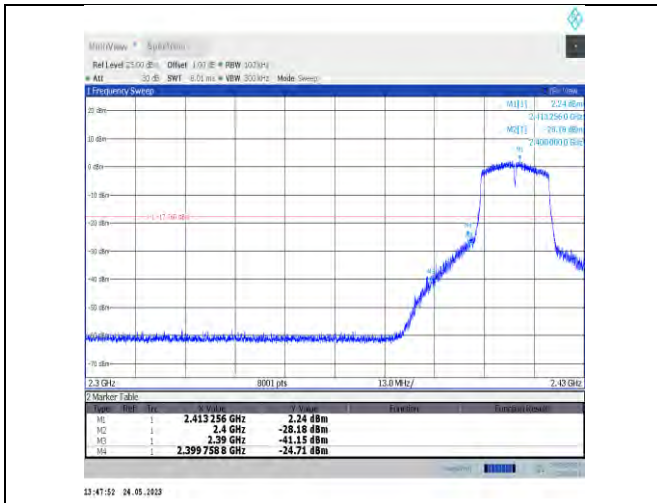
Test Graphs



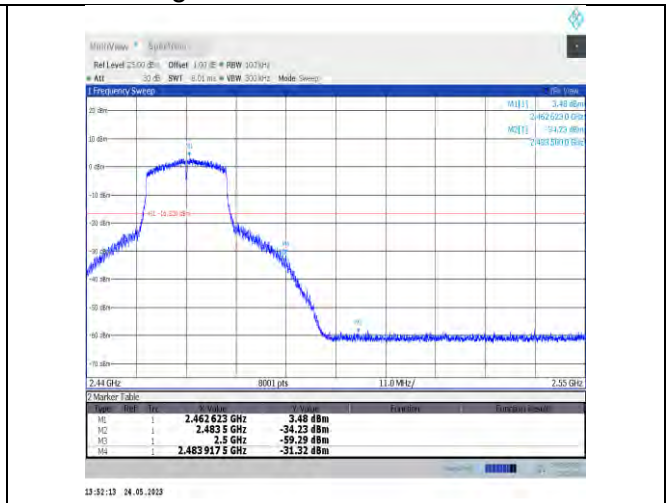
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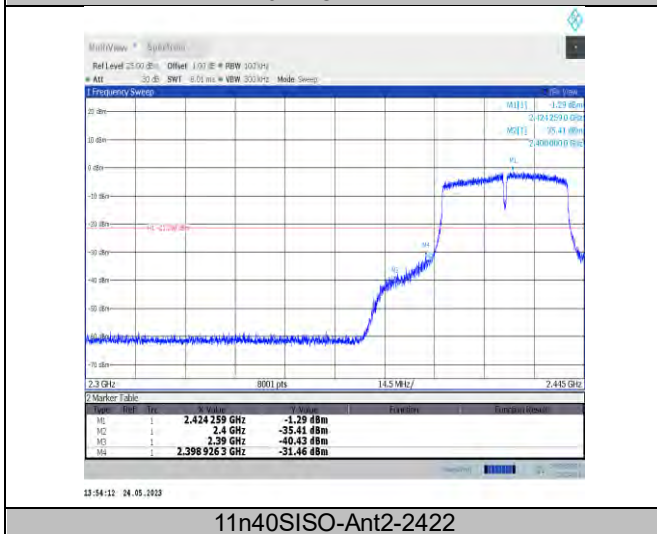
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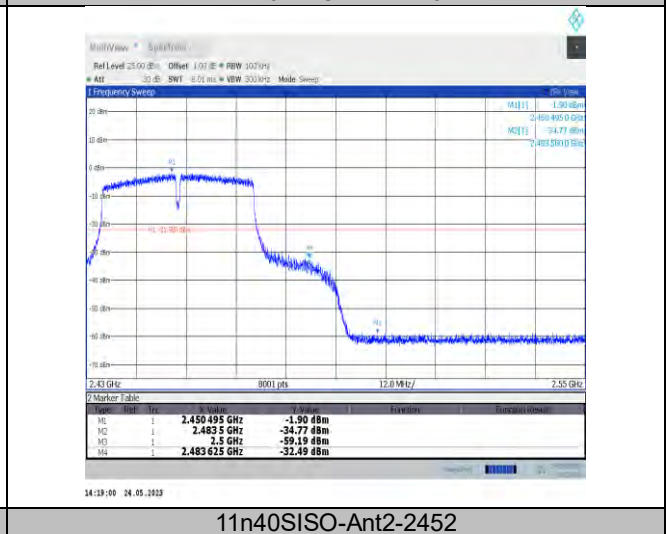
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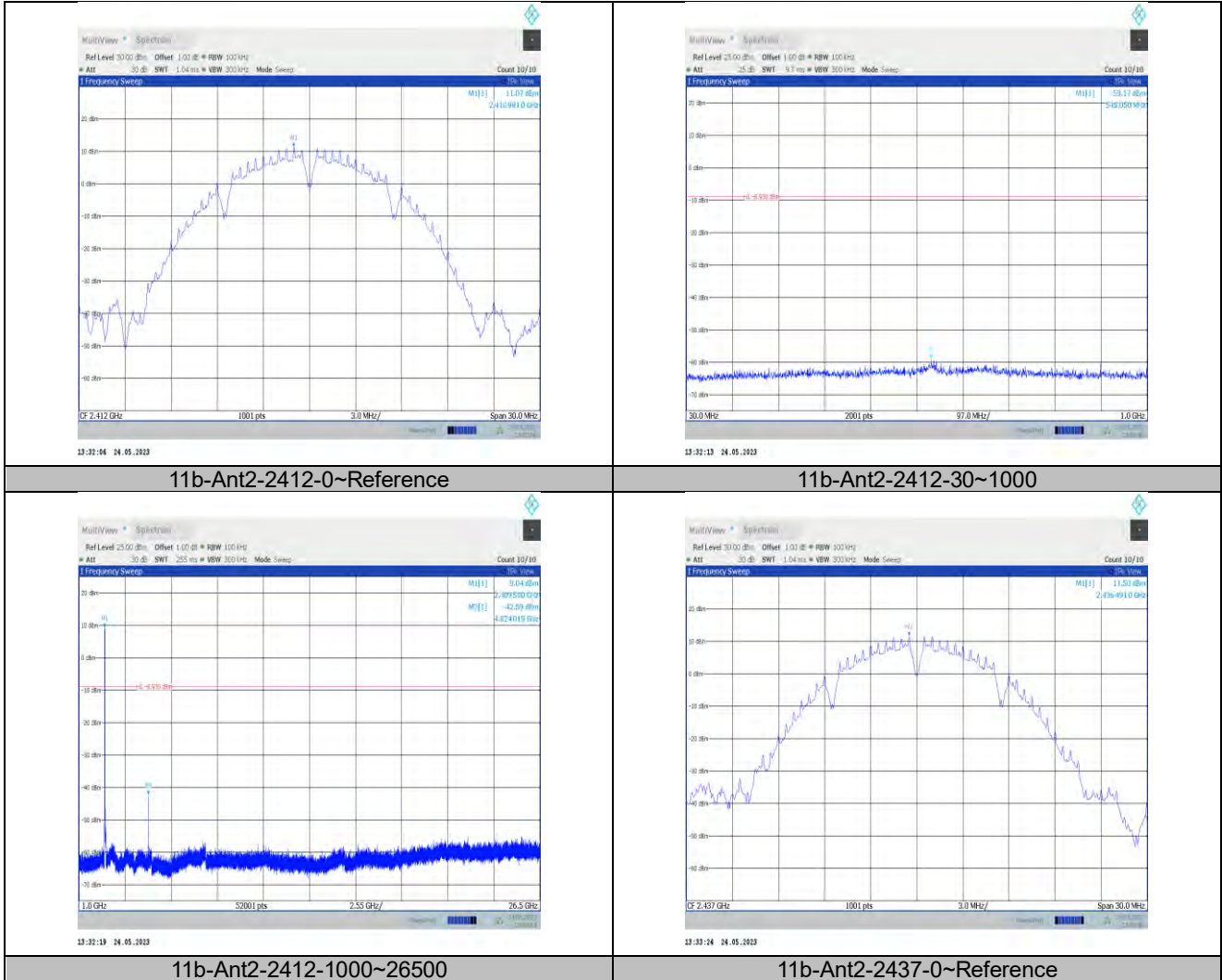


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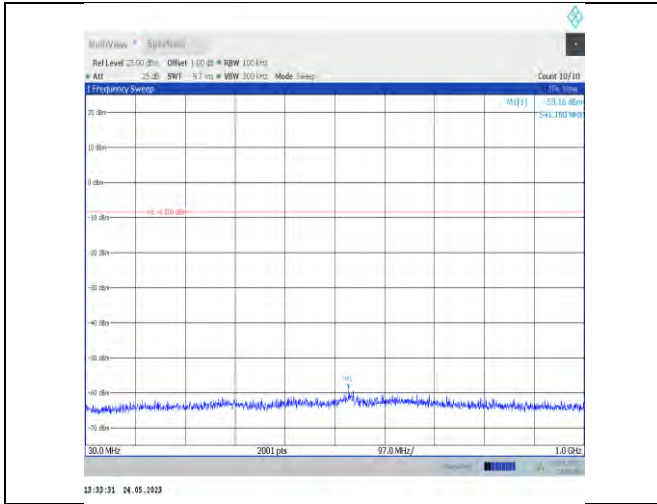
Conducted Spurious Emission

Test Graphs

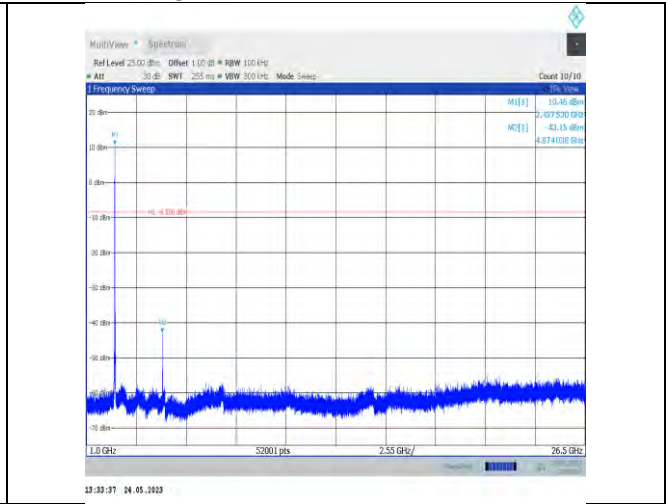


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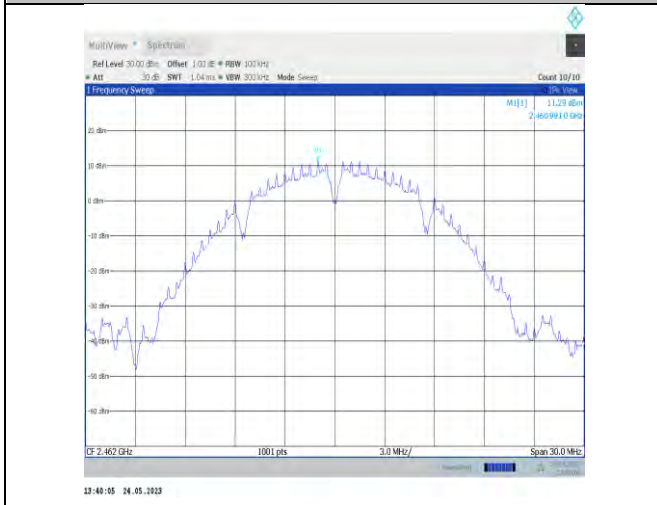
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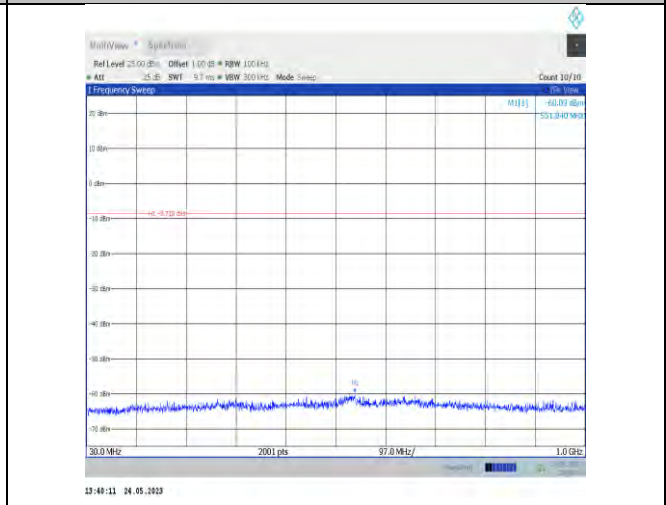
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11b-Ant2-2437-1000~26500



11b-Ant2-2462-0~Reference

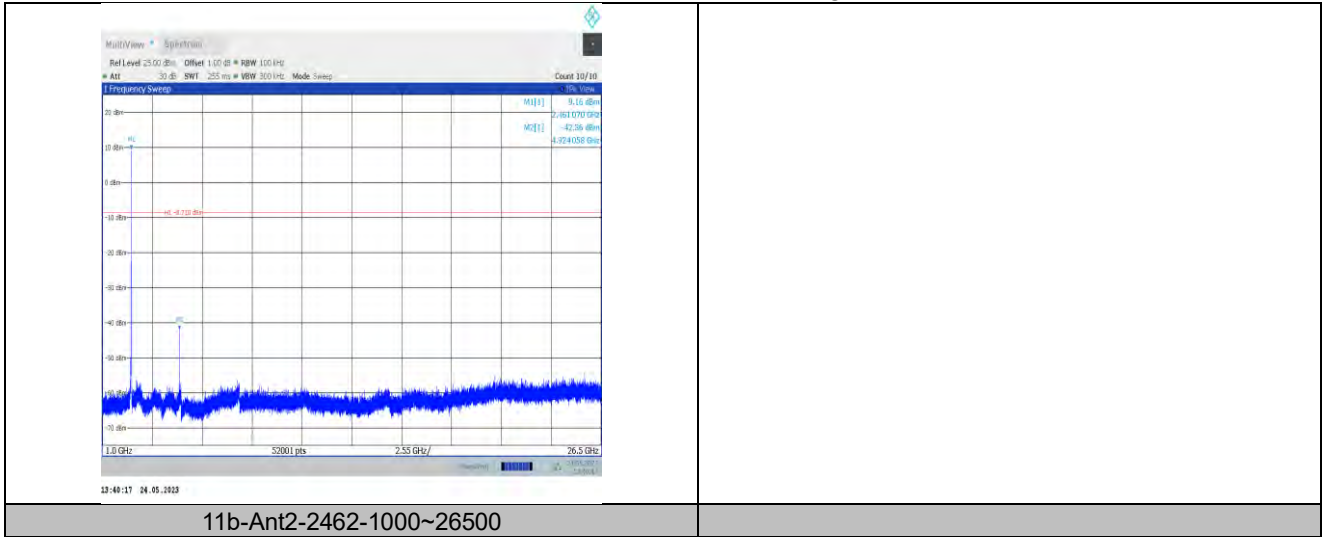


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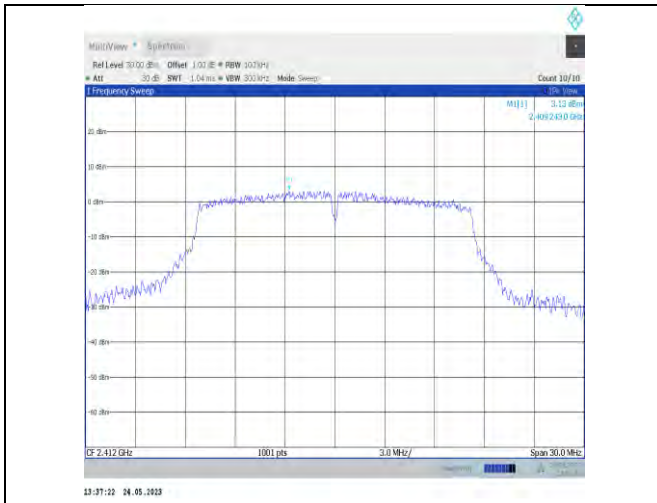
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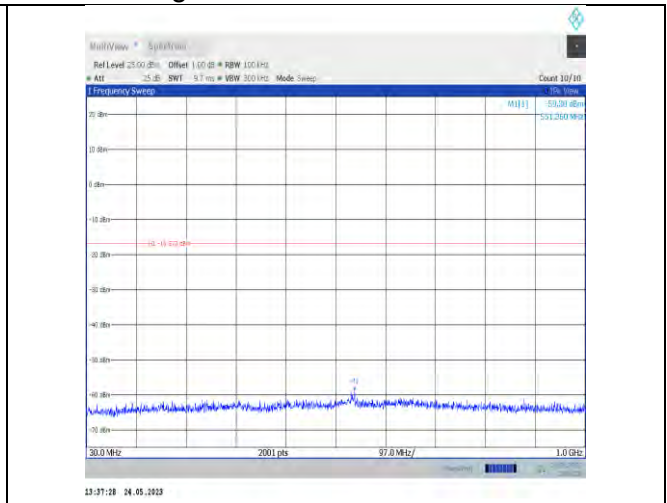
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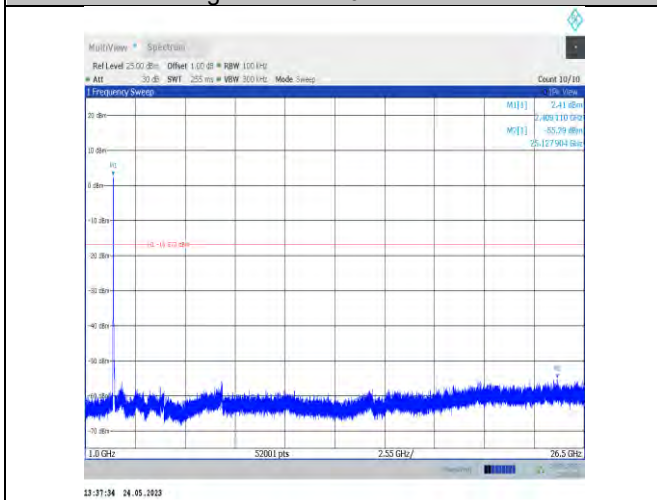
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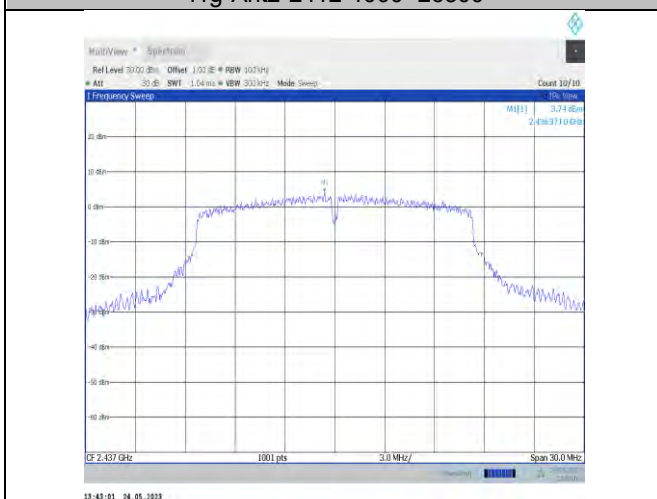
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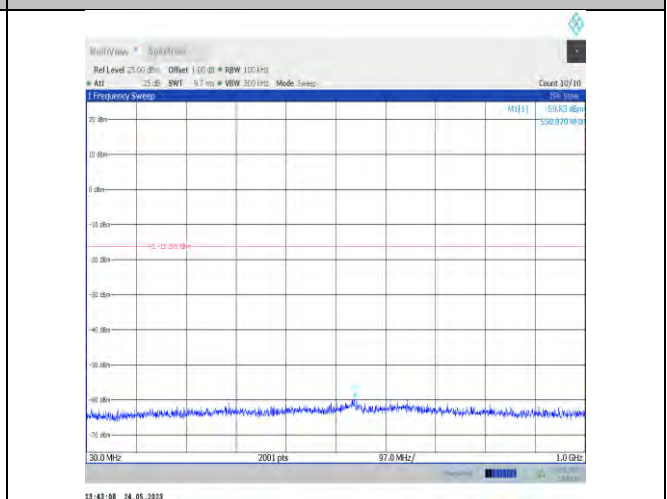
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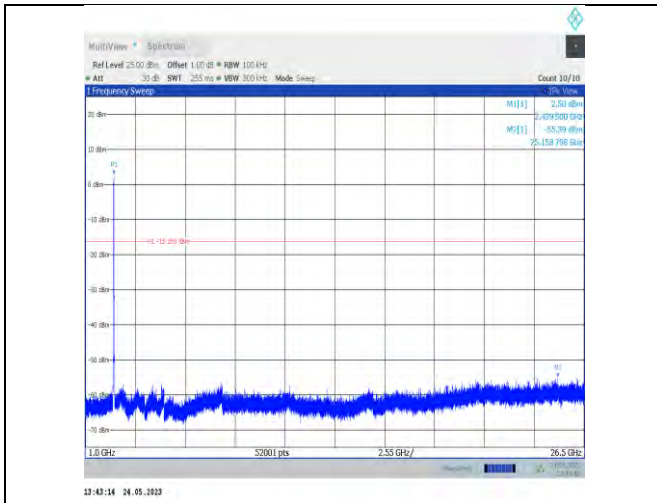


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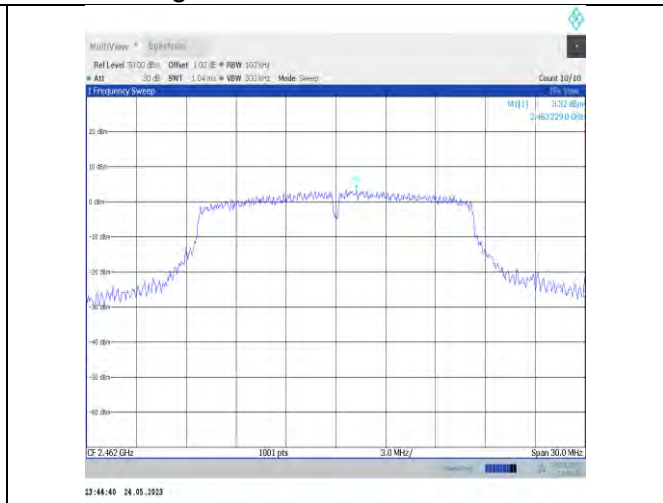


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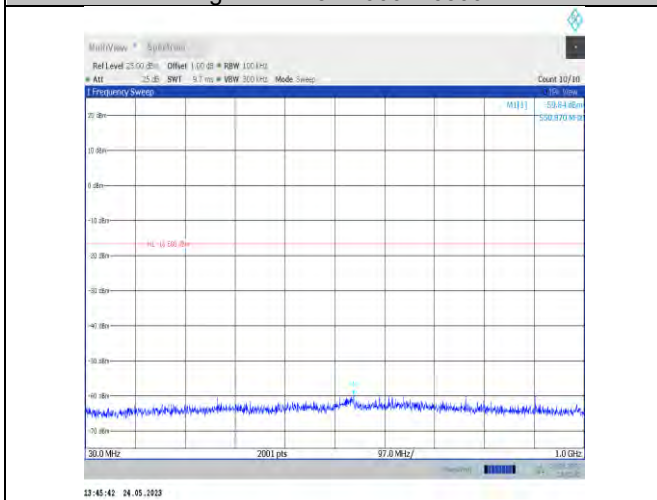
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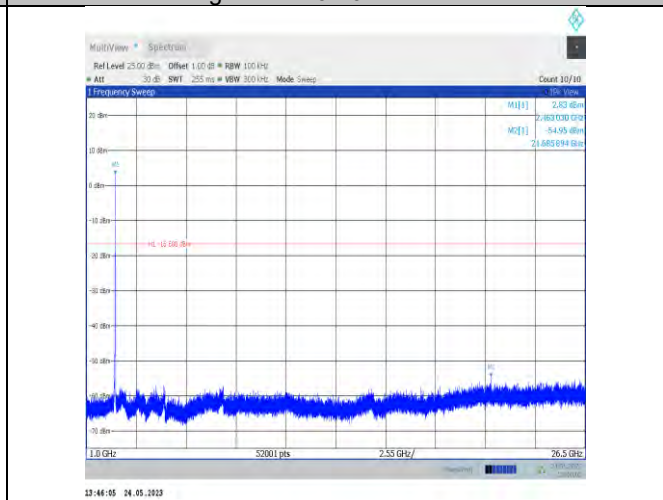
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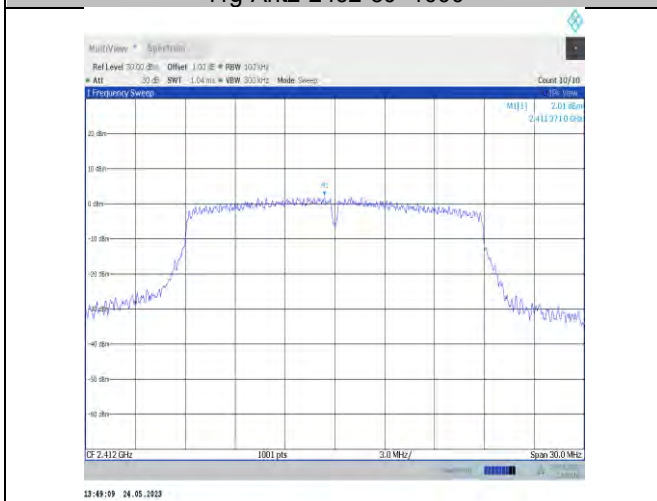
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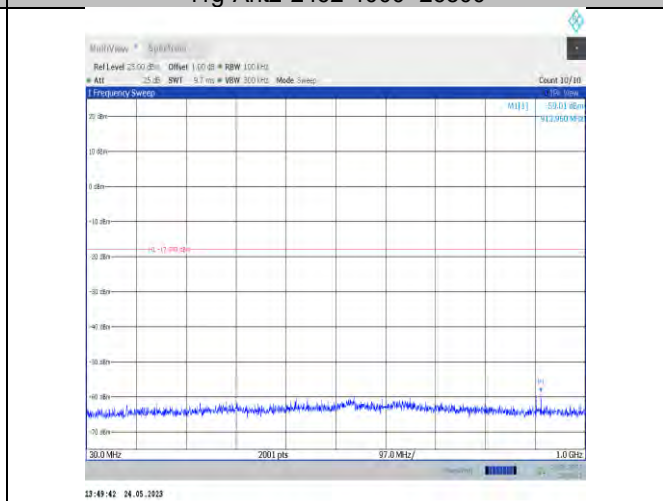
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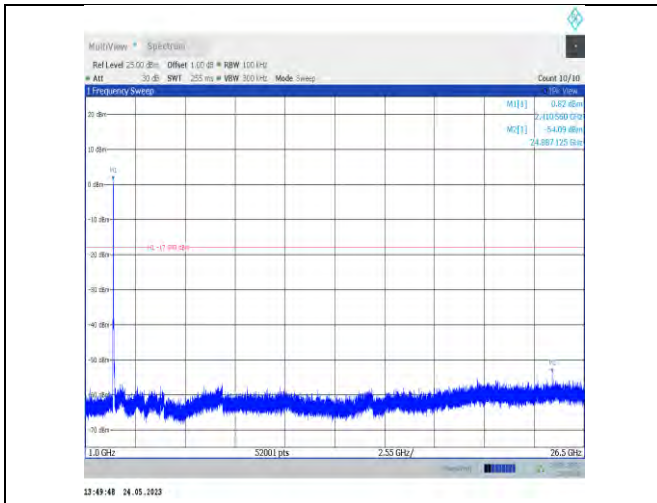


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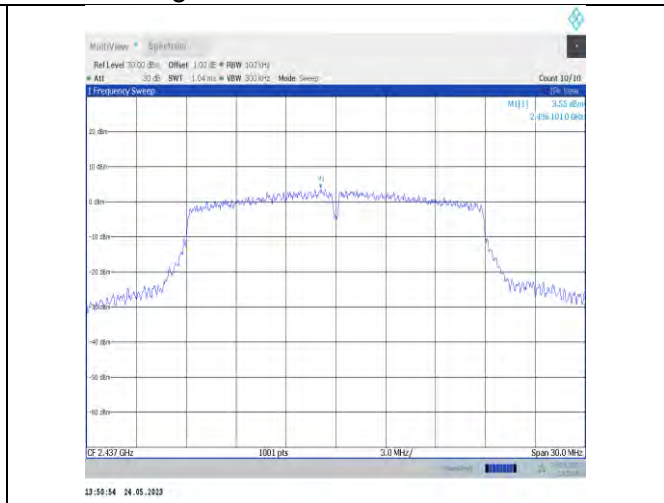


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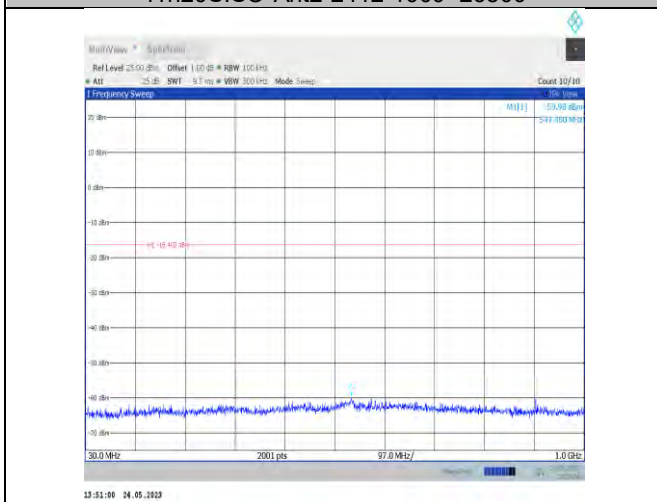
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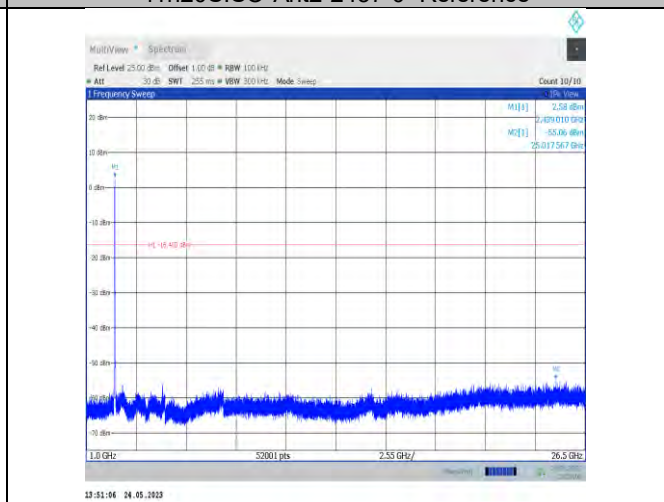
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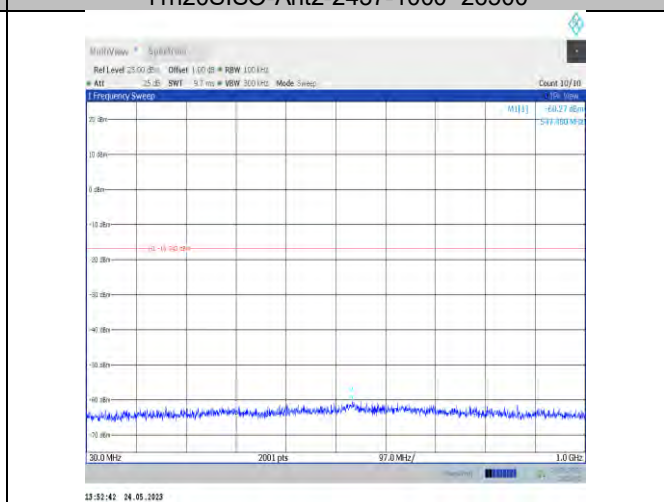
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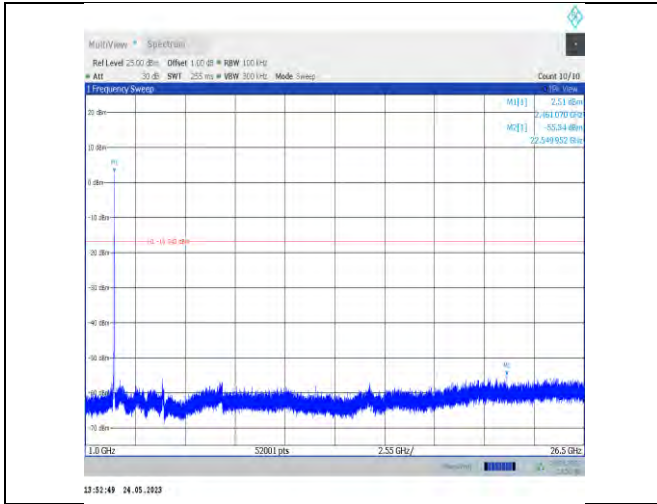


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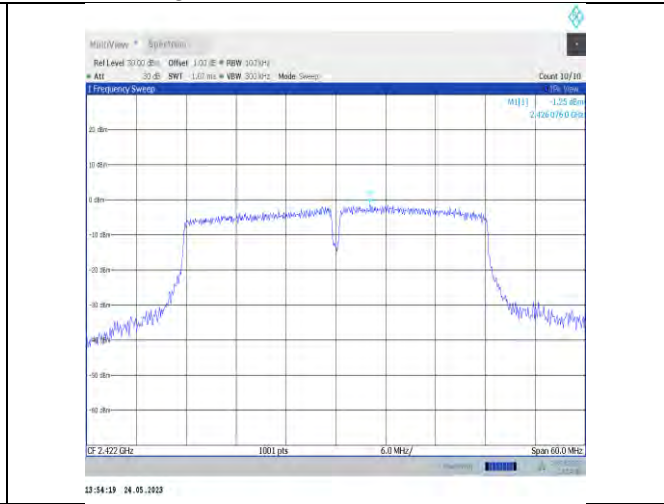


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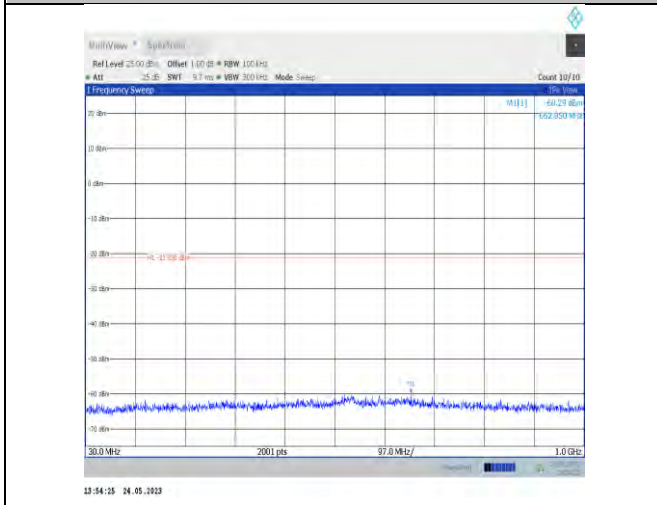
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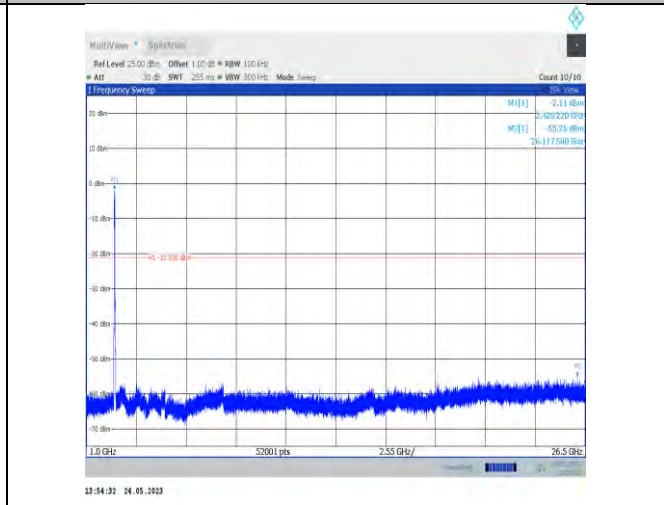
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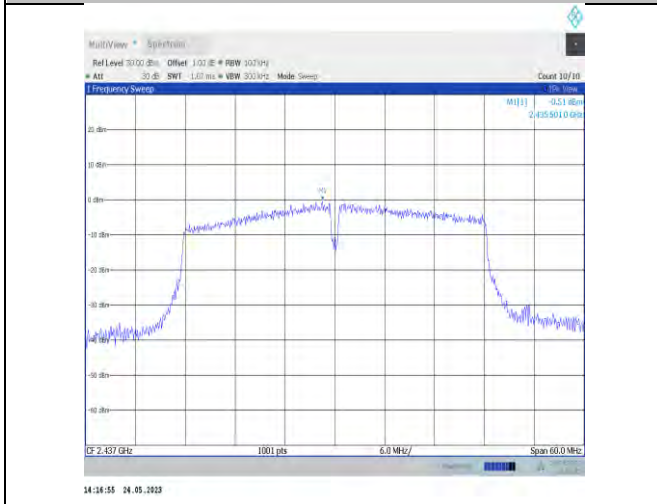
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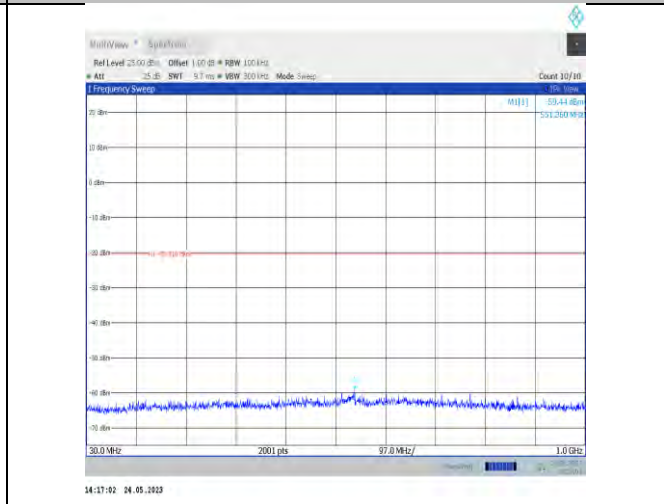
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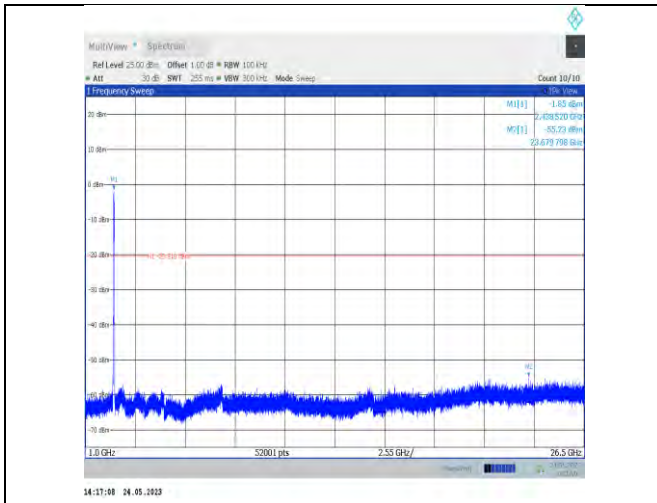


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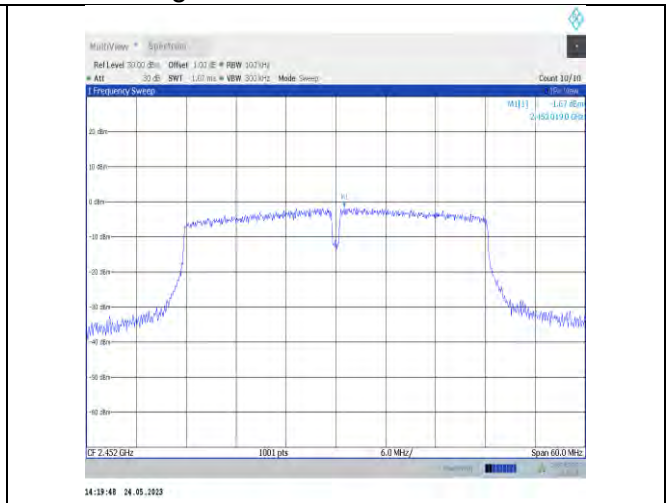


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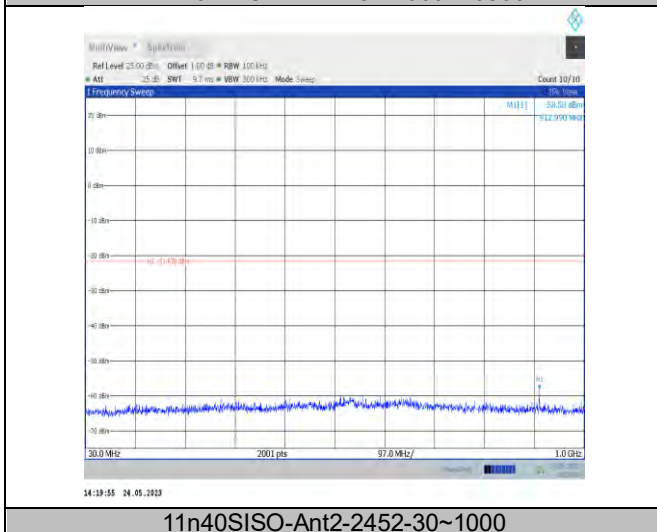
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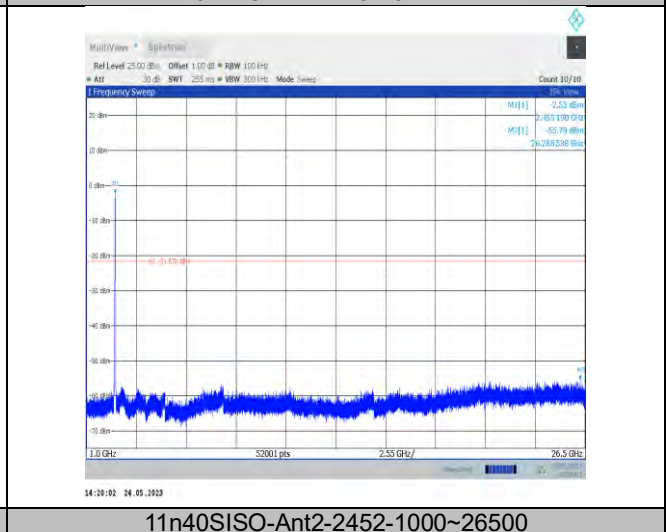
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11n40SISO-Ant2-2452-1000~26500



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Report No.: SEWM2304000115RG07

Rev.: 01

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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

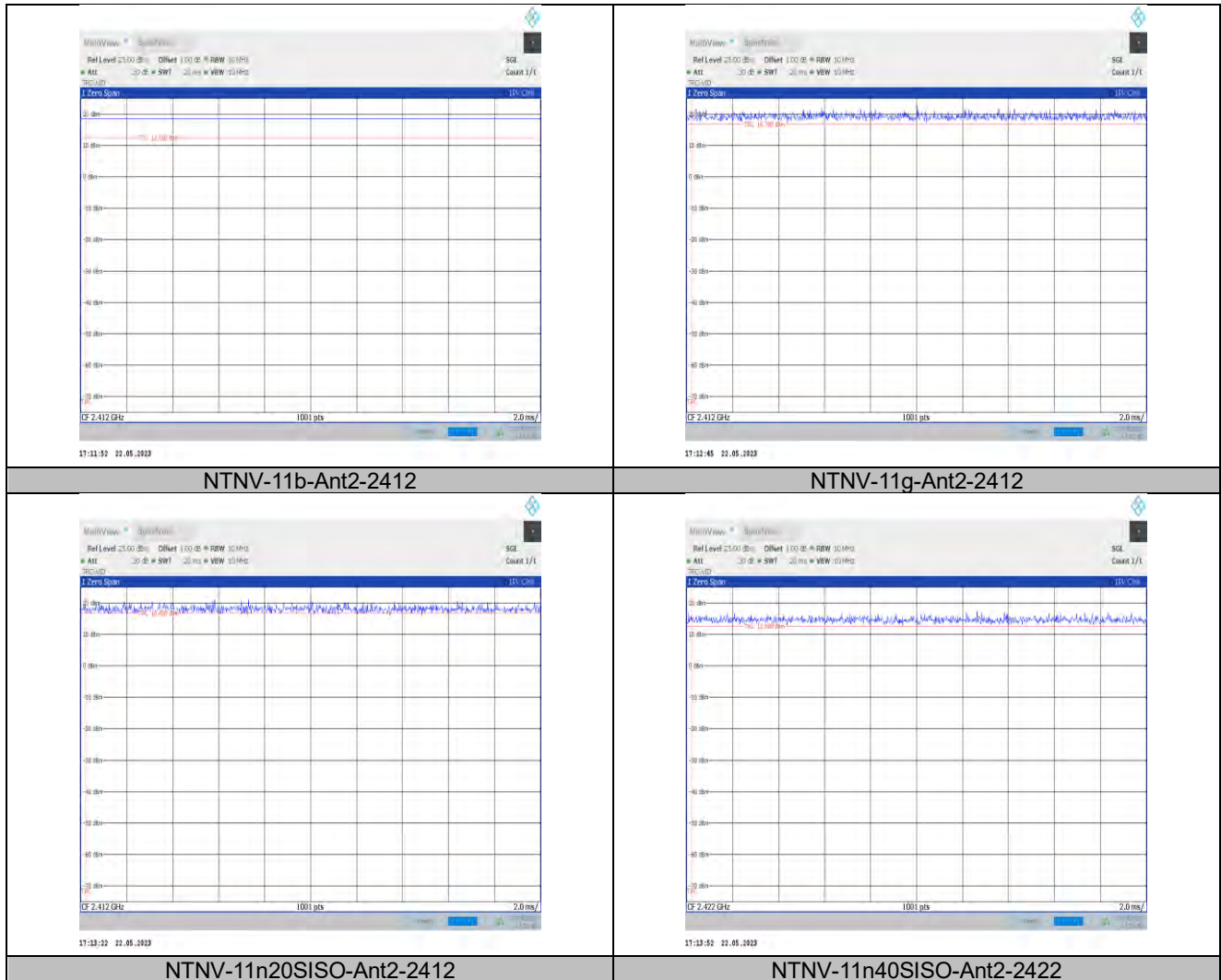


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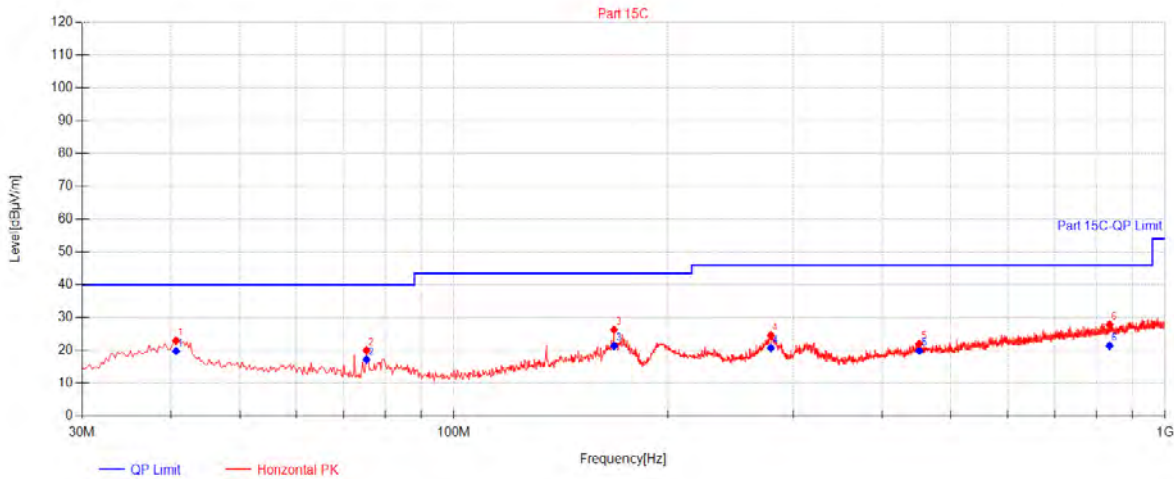
Test Graphs



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Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode:802.11n40_Channel 09

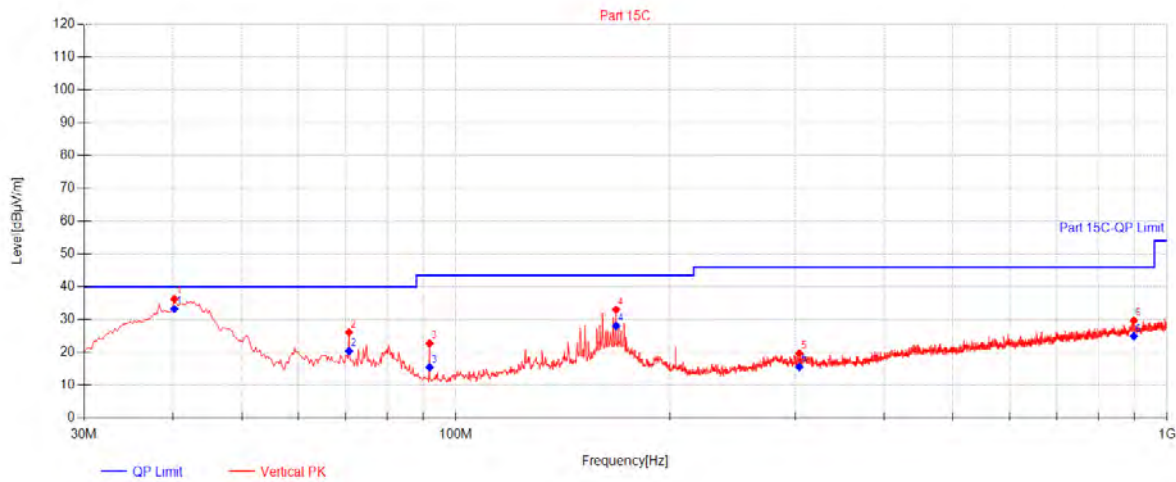


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.67	45.19	14.01	-36.26	22.94	40.00	17.06	188	182	Horizontal
2	75.3475	46.07	10.00	-36.04	20.03	40.00	19.97	126	312	Horizontal
3	167.9825	47.10	14.36	-35.18	26.28	43.50	17.22	181	20	Horizontal
4	279.0475	46.78	12.28	-34.50	24.57	46.00	21.43	163	182	Horizontal
5	451.2225	39.05	15.98	-33.05	21.98	46.00	24.02	261	41	Horizontal
6	835.3425	37.97	20.94	-31.00	27.91	46.00	18.09	151	360	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	40.185	58.48	14.05	-36.27	36.27	40.00	3.73	105	96	Vertical
2	70.74	51.84	10.71	-36.45	26.09	40.00	13.91	194	127	Vertical
3	91.8375	49.42	9.57	-36.31	22.68	43.50	20.82	246	146	Vertical
4	167.9825	53.80	14.36	-35.18	32.98	43.50	10.52	121	338	Vertical
5	304.025	41.12	12.88	-34.30	19.71	46.00	26.29	183	349	Vertical
6	897.9075	38.41	21.61	-30.35	29.68	46.00	16.32	171	0	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.

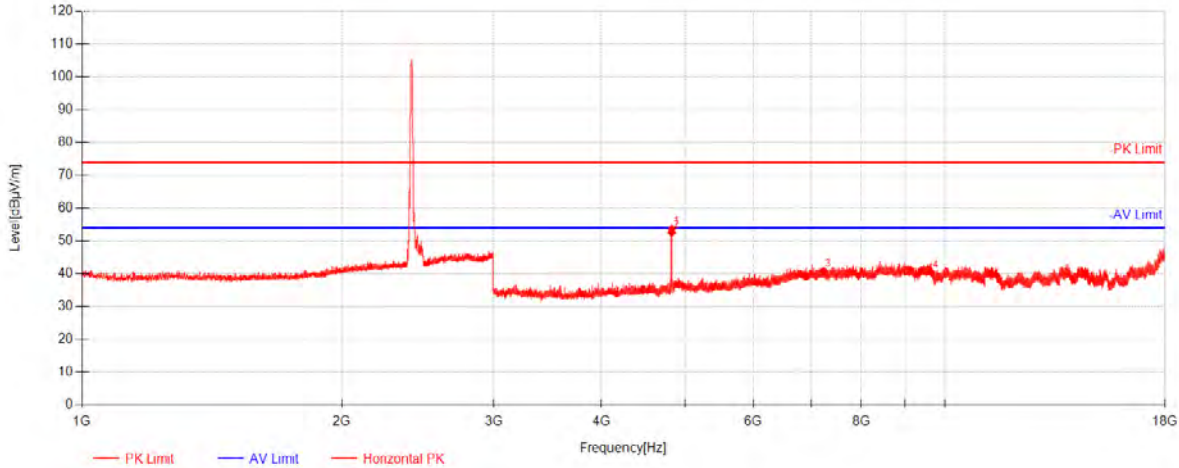


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Transmitter emission Above 1GHz

802.11b_Channel 01



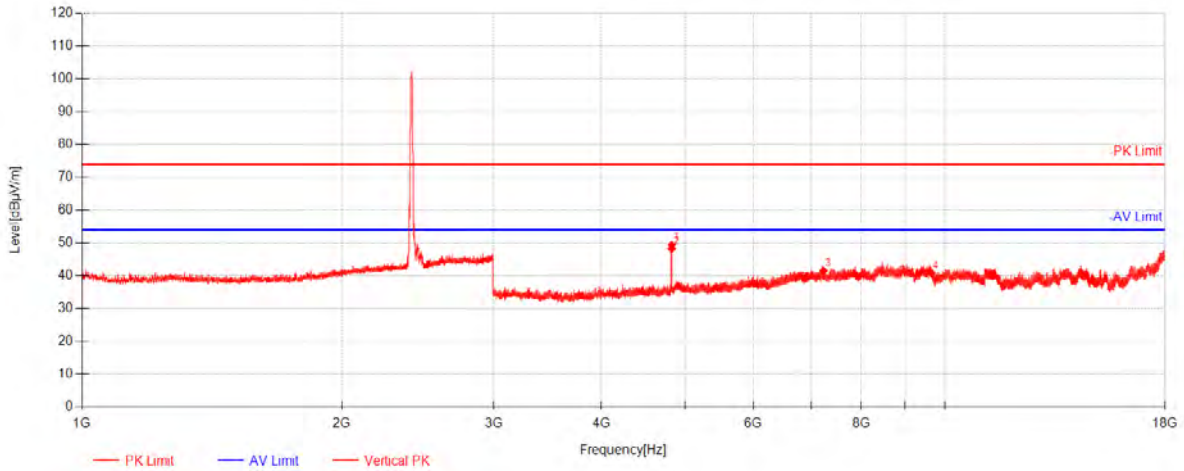
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1	4824.0000	66.78	32.39	-45.54	53.63	74.00	20.37	185	54	Horizontal
2	4824.5	65.75	32.39	-45.54	52.60	54.00	1.40	174	54	Horizontal
3	7236.0000	47.71	36.58	-43.54	40.75	74.00	33.25	216	220	Horizontal
4	9648.0000	41.50	38.39	-39.56	40.33	74.00	33.67	192	165	Horizontal



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802.11b_Channel 01



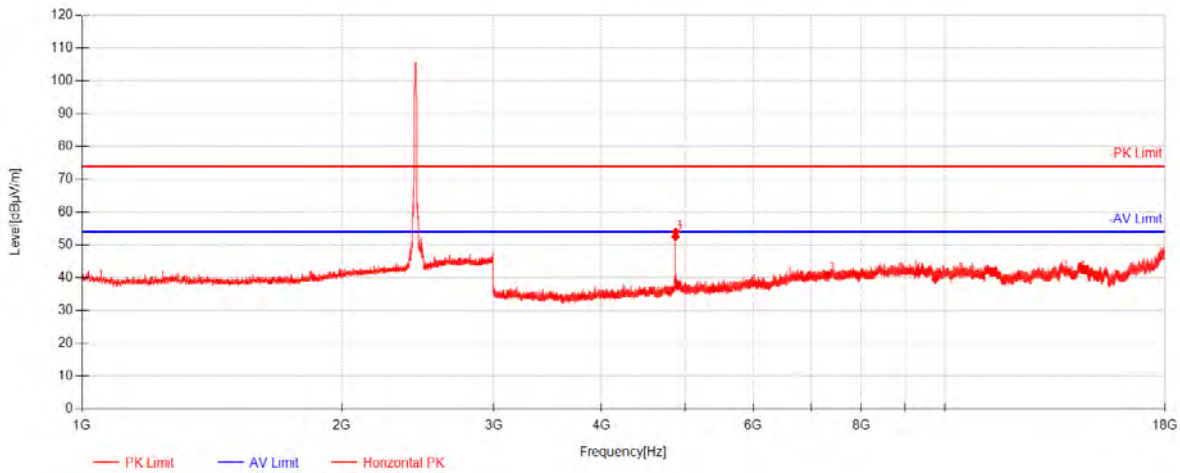
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	62.49	32.39	-45.54	49.34	74.00	24.66	185	279	Vertical
2	4824.5	61.39	32.39	-45.54	48.24	54.00	5.76	193	279	Vertical
3	7236.0000	48.48	36.58	-43.54	41.52	74.00	32.48	265	220	Vertical
4	9648.0000	41.95	38.39	-39.56	40.78	74.00	33.22	174	220	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	4874.0000	66.91	32.53	-45.53	53.90	74.00	20.10	214	52	Horizontal
2	4874.5	65.51	32.53	-45.53	52.51	54.00	1.49	174	80	Horizontal
3	7311.0000	48.05	36.54	-43.71	40.88	74.00	33.12	156	249	Horizontal
4	9748.0000	40.64	38.28	-39.46	39.46	74.00	34.54	136	193	Horizontal

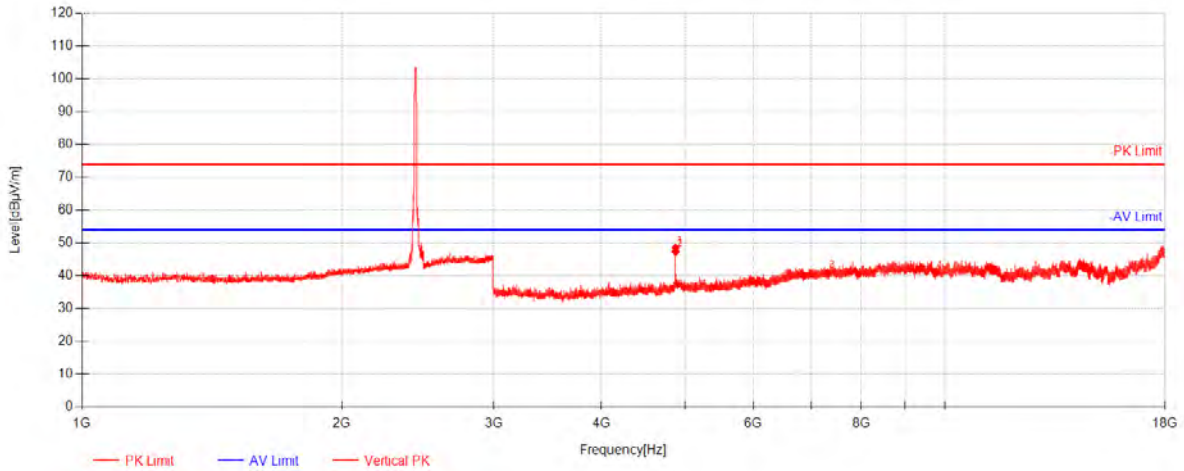


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802.11b_Channel 06



Data List										
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1	4874.0000	61.49	32.53	-45.53	48.48	74.00	25.52	211	276	Vertical
2	4874.5	60.32	32.53	-45.53	47.32	54.00	6.68	130	276	Vertical
3	7311.0000	48.05	36.54	-43.71	40.88	74.00	33.12	221	356	Vertical
4	9748.0000	42.27	38.28	-39.46	41.09	74.00	32.91	185	0	Vertical

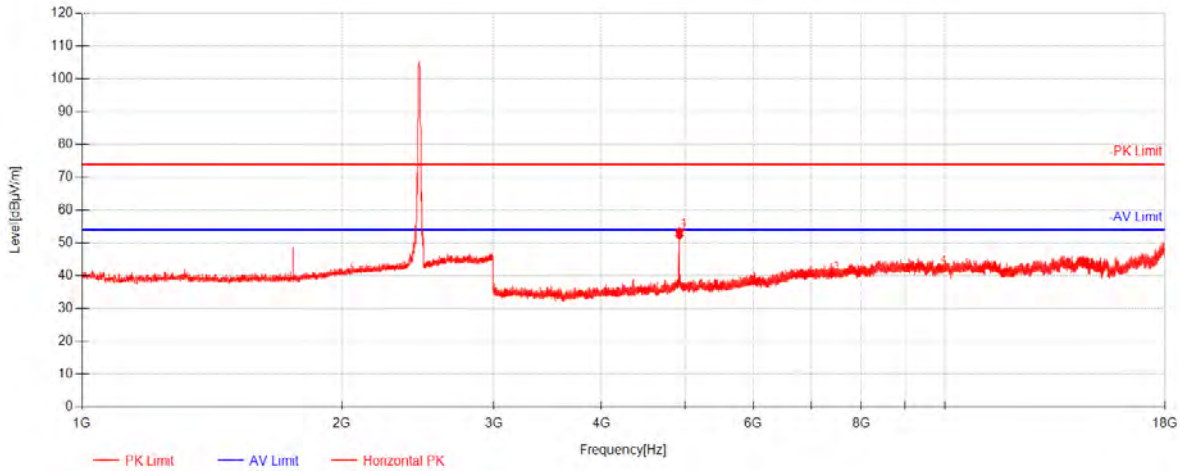


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802.11b_Channel 11



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	4924.0000	66.43	32.67	-45.56	53.54	74.00	20.46	214	79	Horizontal
2	4924.5	65.13	32.67	-45.56	52.24	54.00	1.76	175	79	Horizontal
3	7386.0000	47.36	36.50	-43.46	40.40	74.00	33.60	142	165	Horizontal
4	9848.0000	43.54	38.28	-39.41	42.42	74.00	31.58	136	1	Horizontal

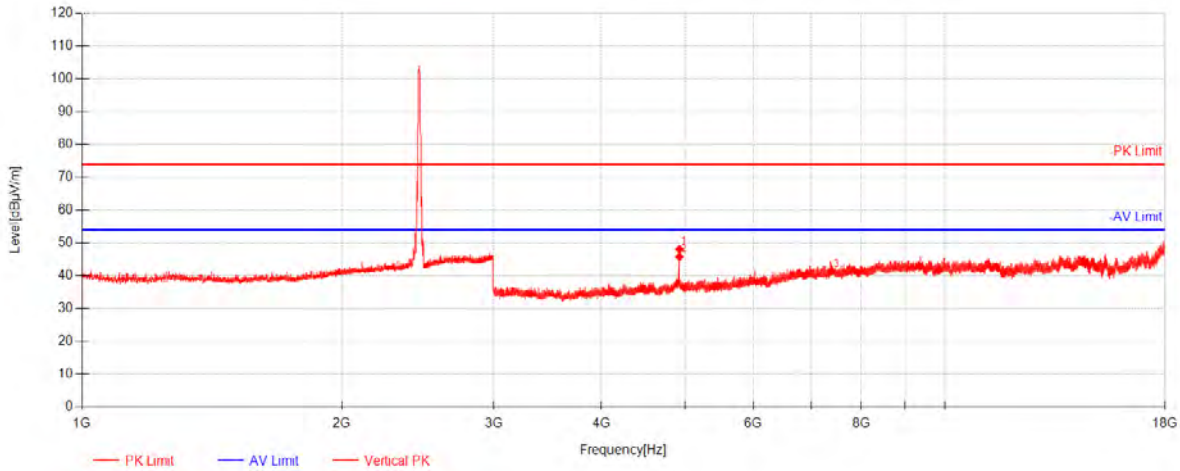


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802.11b_Channel 11



Data List										
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1	4924.0000	60.96	32.67	-45.56	48.07	74.00	25.93	241	279	Vertical
2	4924.5	58.68	32.67	-45.56	45.79	54.00	8.21	185	279	Vertical
3	7386.0000	48.24	36.50	-43.46	41.28	74.00	32.72	169	279	Vertical
4	9848.0000	42.81	38.28	-39.41	41.69	74.00	32.31	193	357	Vertical

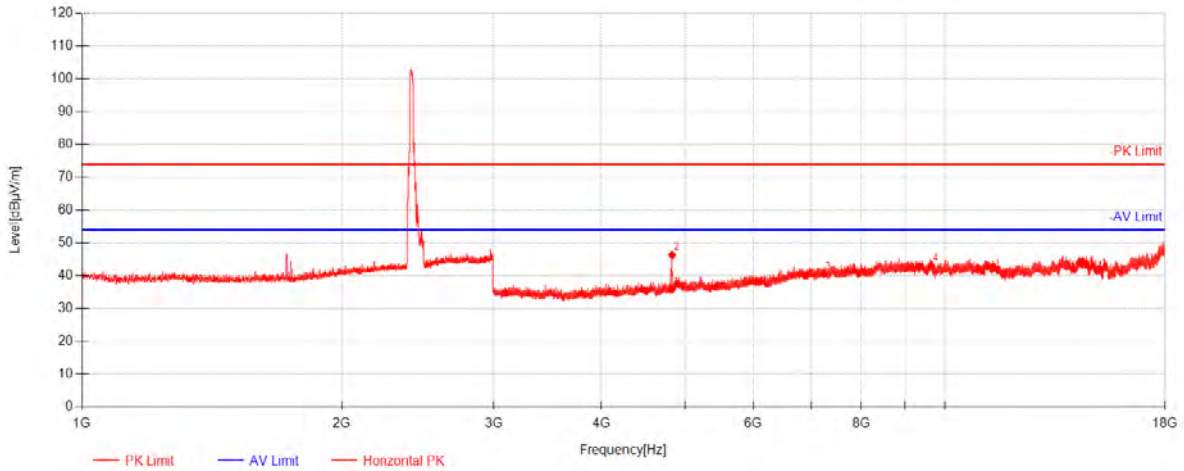


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802.11n20_Channel 01



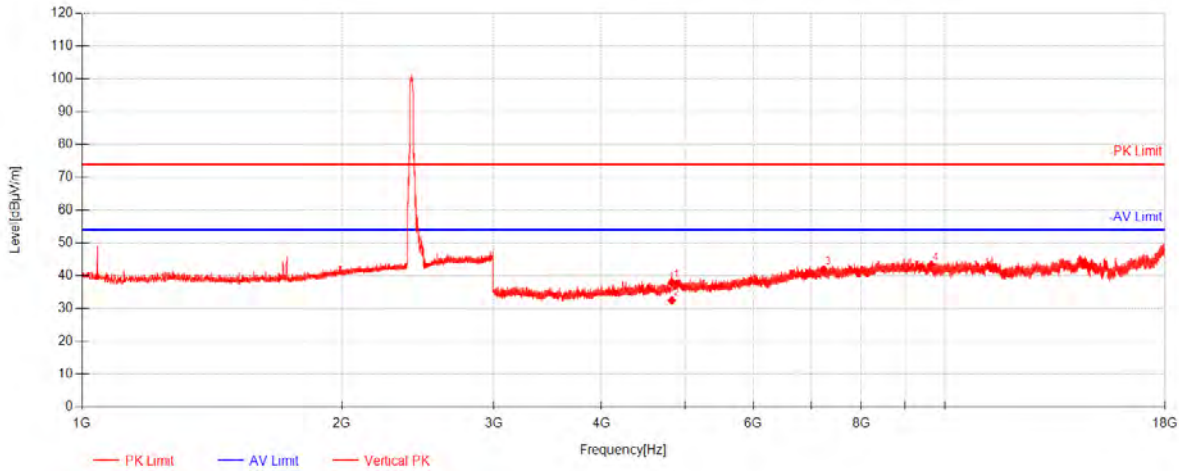
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1	4828	49.02	32.40	-45.54	35.88	54.00	18.12	103	80	Horizontal
2	4829.5	59.42	32.40	-45.54	46.29	74.00	27.71	211	50	Horizontal
3	7236.0000	47.44	36.58	-43.54	40.48	74.00	33.52	188	25	Horizontal
4	9648.0000	44.25	38.39	-39.56	43.08	74.00	30.92	152	1	Horizontal



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802.11n20_Channel 01



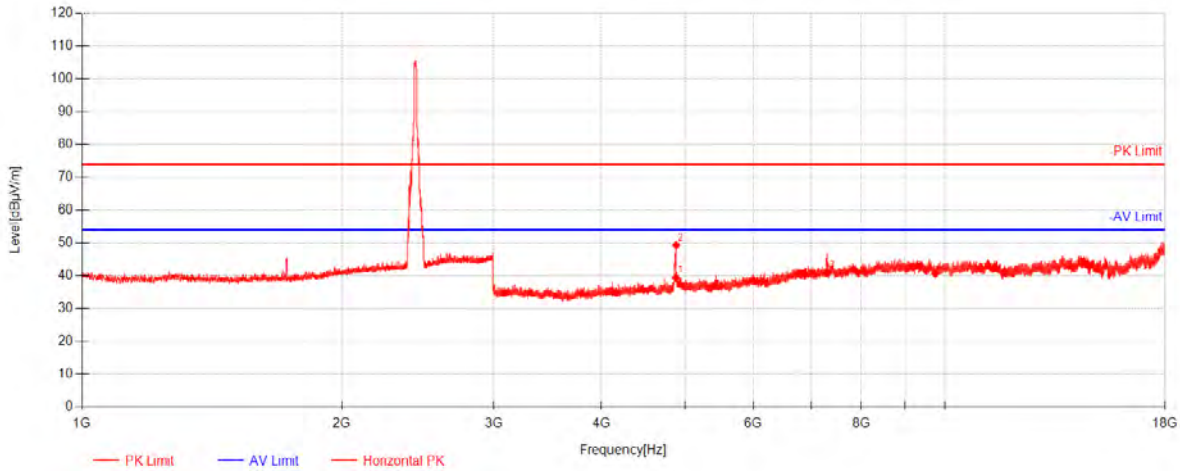
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	51.14	32.39	-45.54	37.99	74.00	36.01	144	53	Vertical
2	4825.5	45.60	32.39	-45.54	32.45	54.00	21.55	188	278	Vertical
3	7236.0000	48.90	36.58	-43.54	41.94	74.00	32.06	231	52	Vertical
4	9648.0000	44.53	38.39	-39.56	43.36	74.00	30.64	189	165	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	4878.5	52.35	32.54	-45.53	39.36	54.00	14.64	128	165	Horizontal
2	4882	62.27	32.55	-45.53	49.29	74.00	24.71	157	54	Horizontal
3	7311.0000	48.13	36.54	-43.71	40.96	74.00	33.04	203	53	Horizontal
4	9748.0000	41.75	38.28	-39.46	40.57	74.00	33.43	155	305	Horizontal

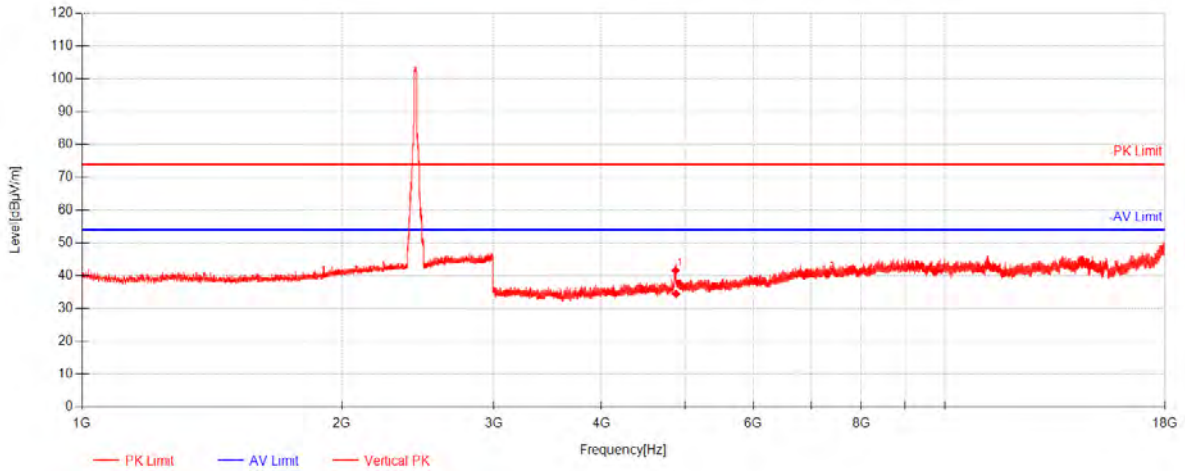


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802.11n20_Channel 06



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	4874.0000	54.60	32.53	-45.53	41.59	74.00	32.41	103	110	Vertical
2	4879.5	47.49	32.54	-45.53	34.50	54.00	19.50	211	276	Vertical
3	7311.0000	47.65	36.54	-43.71	40.48	74.00	33.52	188	305	Vertical
4	9748.0000	42.39	38.28	-39.46	41.21	74.00	32.79	231	334	Vertical

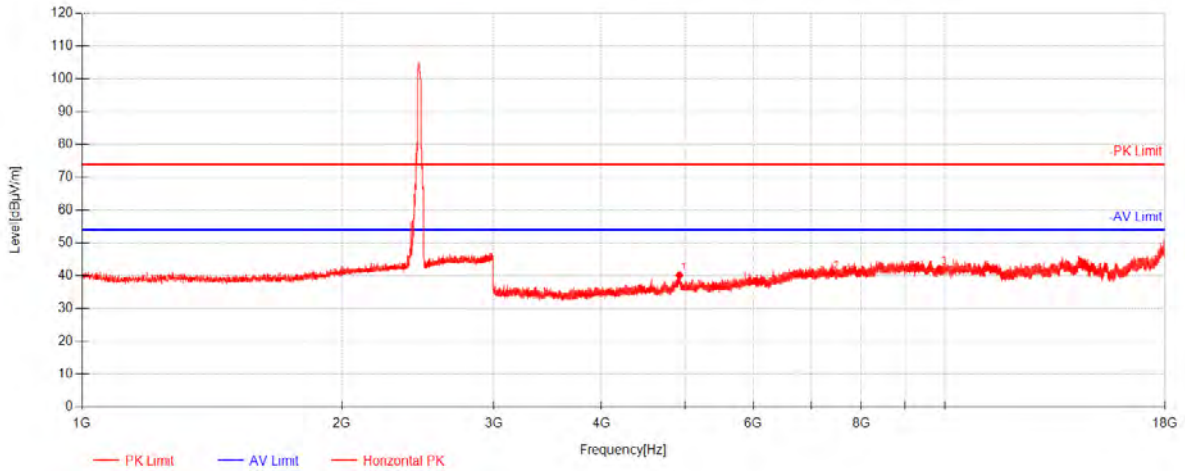


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802.11n20_Channel 11



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	53.00	32.67	-45.56	40.11	74.00	33.89	300	25	Horizontal
2	7386.0000	47.68	36.50	-43.46	40.72	74.00	33.28	300	25	Horizontal
3	9848.0000	43.21	38.28	-39.41	42.09	74.00	31.91	100	307	Horizontal

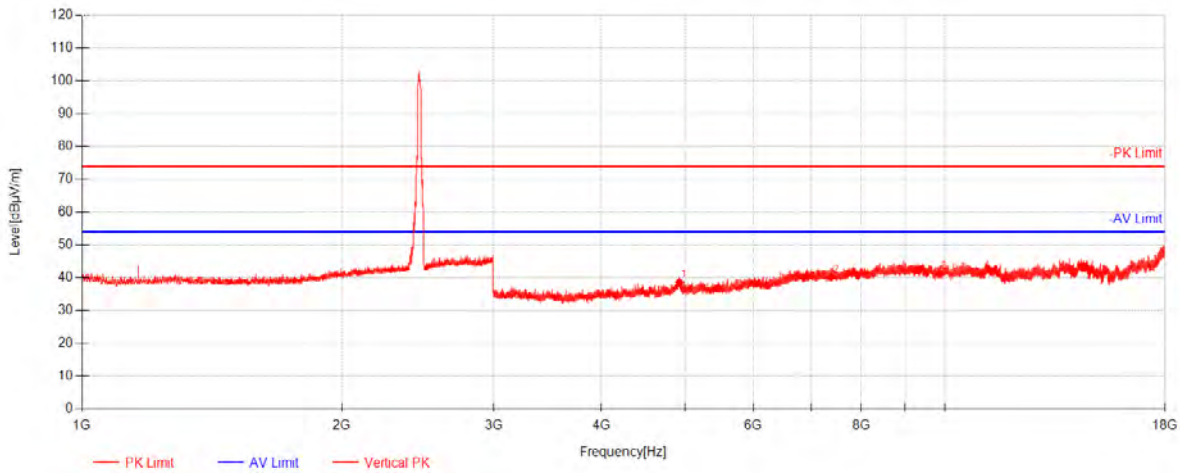


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802.11n20_Channel 11



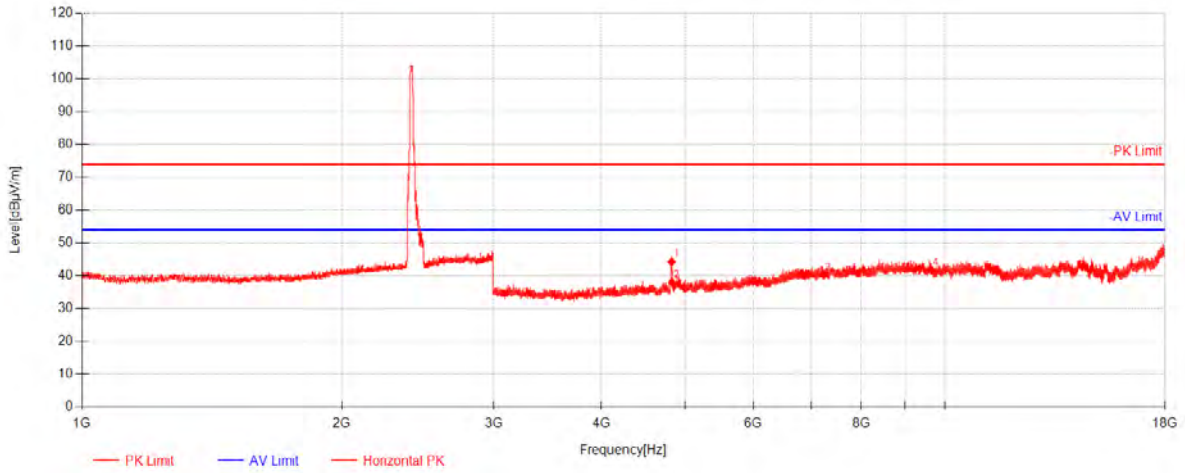
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	51.56	32.67	-45.56	38.67	74.00	35.33	100	166	Vertical
2	7386.0000	47.12	36.50	-43.46	40.16	74.00	33.84	300	191	Vertical
3	9848.0000	42.22	38.28	-39.41	41.10	74.00	32.90	100	7	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	57.41	32.39	-45.54	44.26	74.00	29.74	157	53	Horizontal
2	4827	51.11	32.40	-45.54	37.97	54.00	16.03	203	53	Horizontal
3	7236.0000	47.13	36.58	-43.54	40.17	74.00	33.83	177	8	Horizontal
4	9648.0000	42.82	38.39	-39.56	41.65	74.00	32.35	180	0	Horizontal

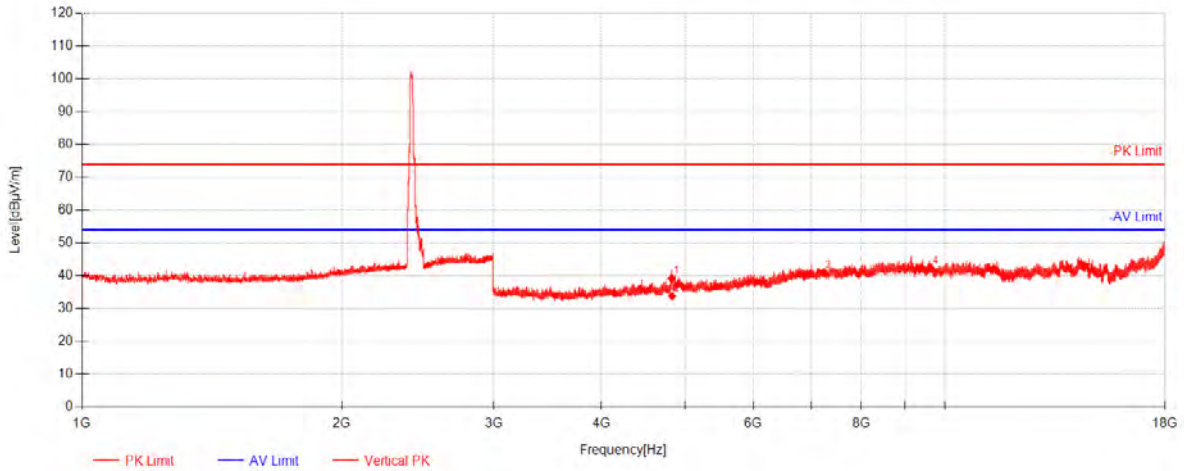


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802.11g_Channel 01



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	4824.0000	52.29	32.39	-45.54	39.14	74.00	34.86	182	177	Vertical
2	4829	46.92	32.40	-45.54	33.78	54.00	20.22	147	279	Vertical
3	7236.0000	47.88	36.58	-43.54	40.92	74.00	33.08	206	194	Vertical
4	9648.0000	43.32	38.39	-39.56	42.15	74.00	31.85	177	317	Vertical

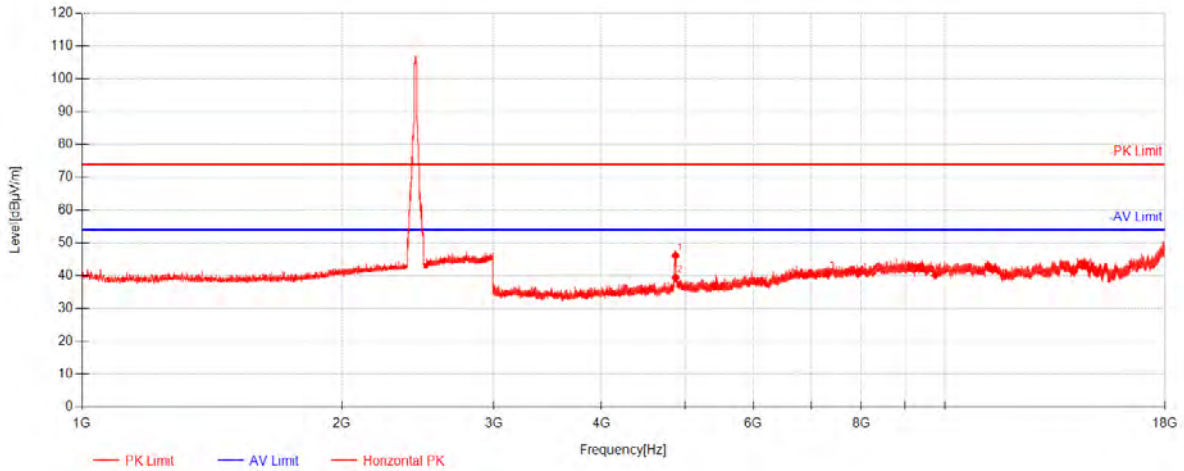


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802.11g_Channel 06



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	59.15	32.53	-45.53	46.14	74.00	27.86	155	52	Horizontal
2	4875.5	52.41	32.53	-45.53	39.41	54.00	14.59	182	52	Horizontal
3	7311.0000	47.70	36.54	-43.71	40.53	74.00	33.47	257	6	Horizontal
4	9748.0000	41.32	38.28	-39.46	40.14	74.00	33.86	101	1	Horizontal

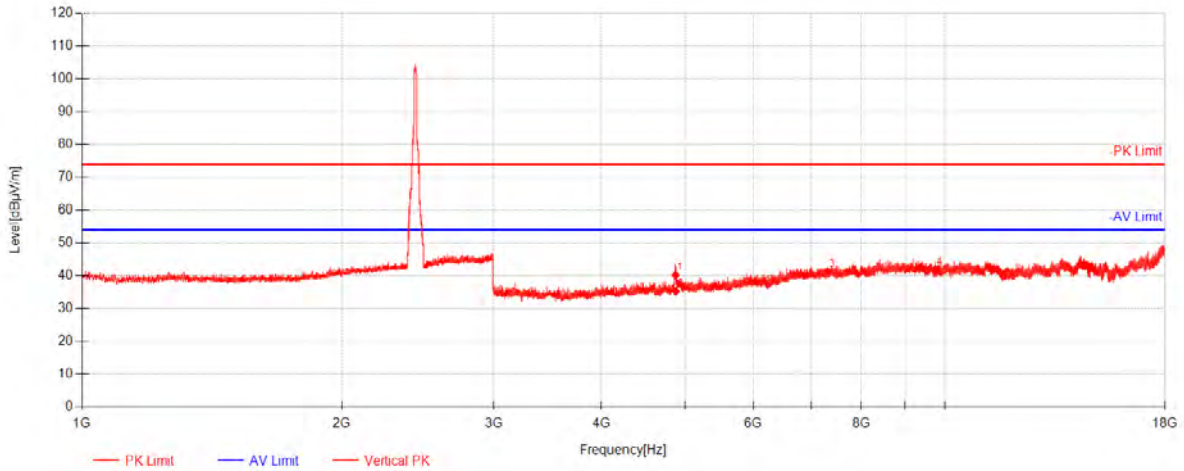


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	53.19	32.53	-45.53	40.18	74.00	33.82	155	6	Vertical
2	4876.5	48.27	32.53	-45.53	35.27	54.00	18.73	203	306	Vertical
3	7311.0000	48.52	36.54	-43.71	41.35	74.00	32.65	188	79	Vertical
4	9748.0000	43.16	38.28	-39.46	41.98	74.00	32.02	212	221	Vertical

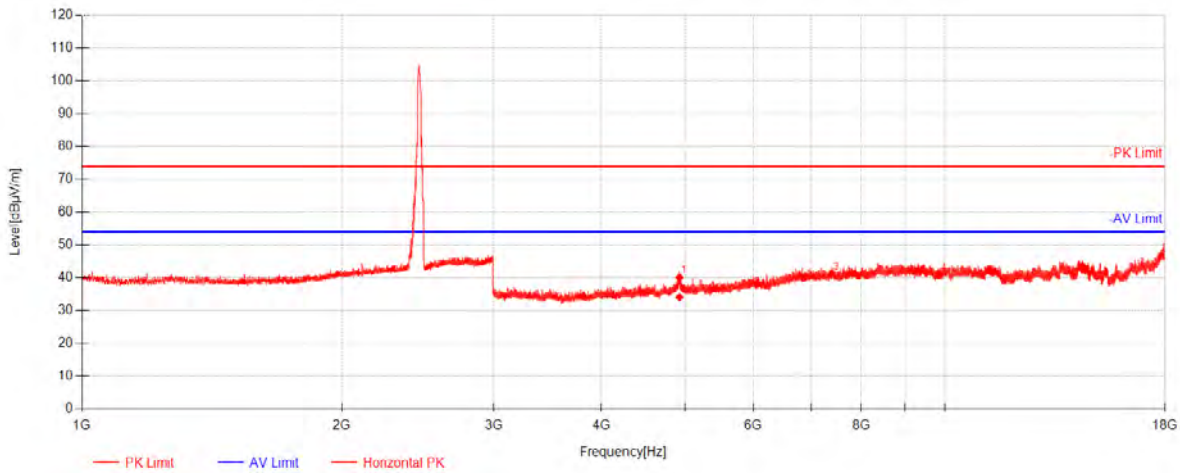


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802.11g_Channel 11



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	4924.0000	52.96	32.67	-45.56	40.07	74.00	33.93	188	50	Horizontal
2	4925	46.98	32.67	-45.56	34.09	54.00	19.91	201	50	Horizontal
3	7386.0000	47.99	36.50	-43.46	41.03	74.00	32.97	175	52	Horizontal
4	9848.0000	41.90	38.28	-39.41	40.78	74.00	33.22	231	331	Horizontal

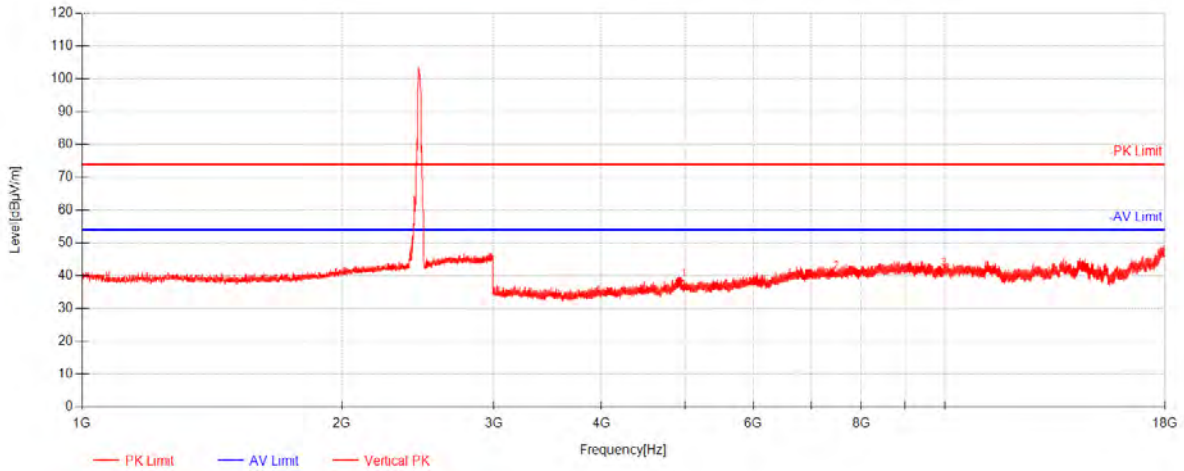


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802.11g_Channel 11



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	51.39	32.67	-45.56	38.50	74.00	35.50	182	0	Vertical
2	7386.0000	47.55	36.50	-43.46	40.59	74.00	33.41	147	0	Vertical
3	9848.0000	42.88	38.28	-39.41	41.76	74.00	32.24	231	1	Vertical

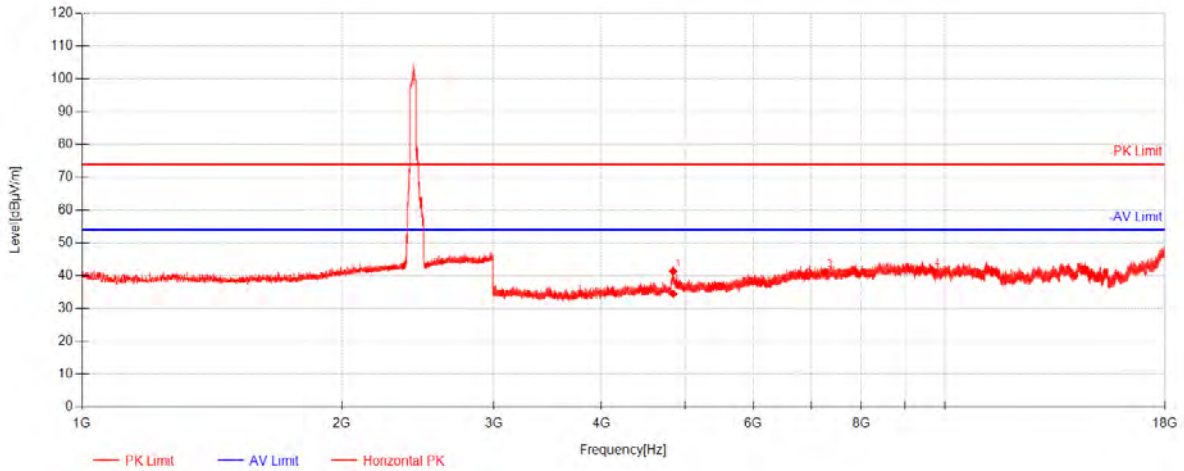


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802.11n40_Channel 03



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	4844.0000	54.38	32.44	-45.54	41.29	74.00	32.71	174	54	Horizontal
2	4844.5	47.57	32.44	-45.54	34.48	54.00	19.52	155	54	Horizontal
3	7266.0000	48.23	36.56	-43.64	41.16	74.00	32.84	177	82	Horizontal
4	9688.0000	42.70	38.34	-39.47	41.58	74.00	32.42	213	249	Horizontal

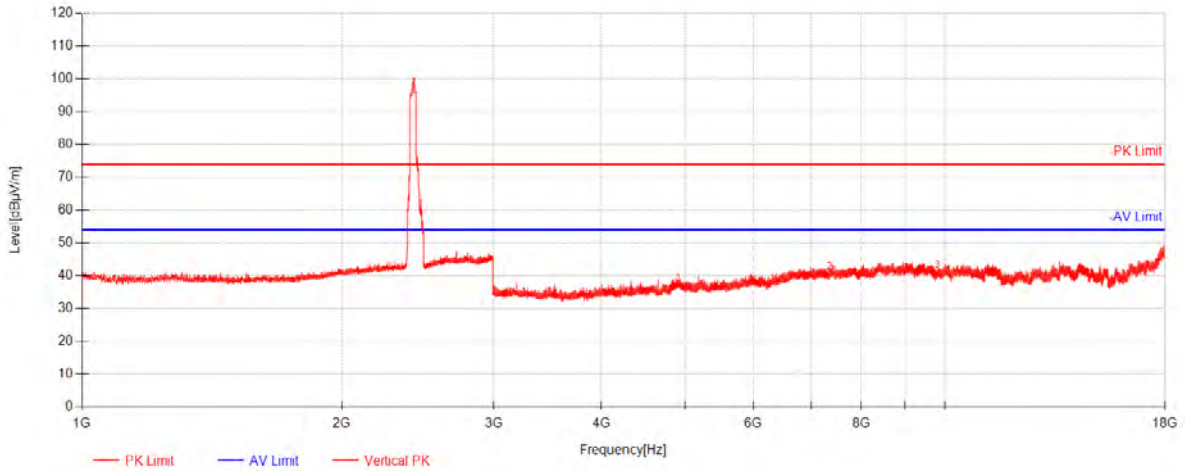


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802.11n40_Channel 03



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	4844.0000	49.93	32.44	-45.54	36.84	74.00	37.16	159	192	Vertical
2	7266.0000	47.44	36.56	-43.64	40.37	74.00	33.63	257	165	Vertical
3	9688.0000	42.10	38.34	-39.47	40.98	74.00	33.02	192	305	Vertical

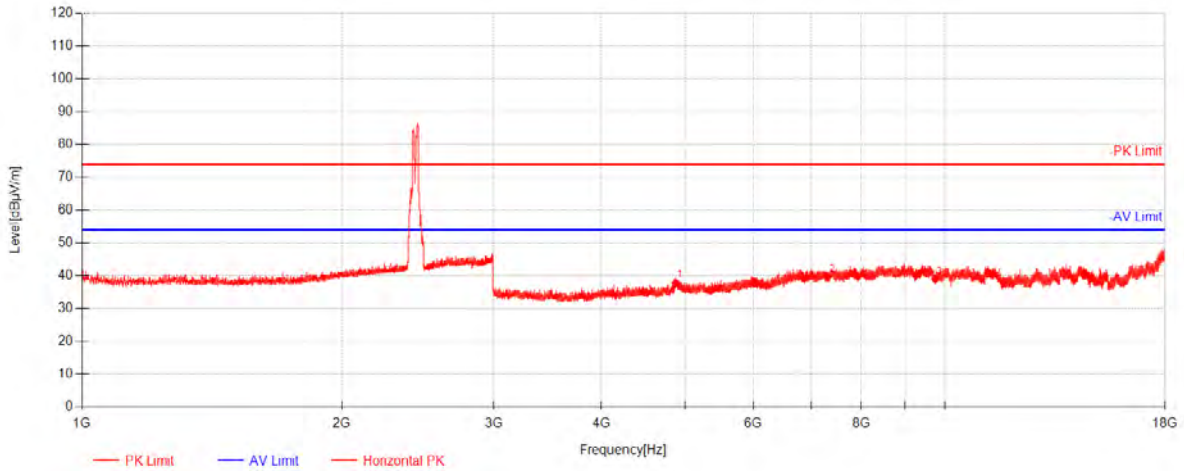


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802.11n40_Channel 06



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	50.87	32.53	-45.53	37.86	74.00	36.14	195	310	Horizontal
2	7311.0000	46.85	36.54	-43.71	39.68	74.00	34.32	214	10	Horizontal
3	9748.0000	40.06	38.28	-39.46	38.88	74.00	35.12	188	80	Horizontal

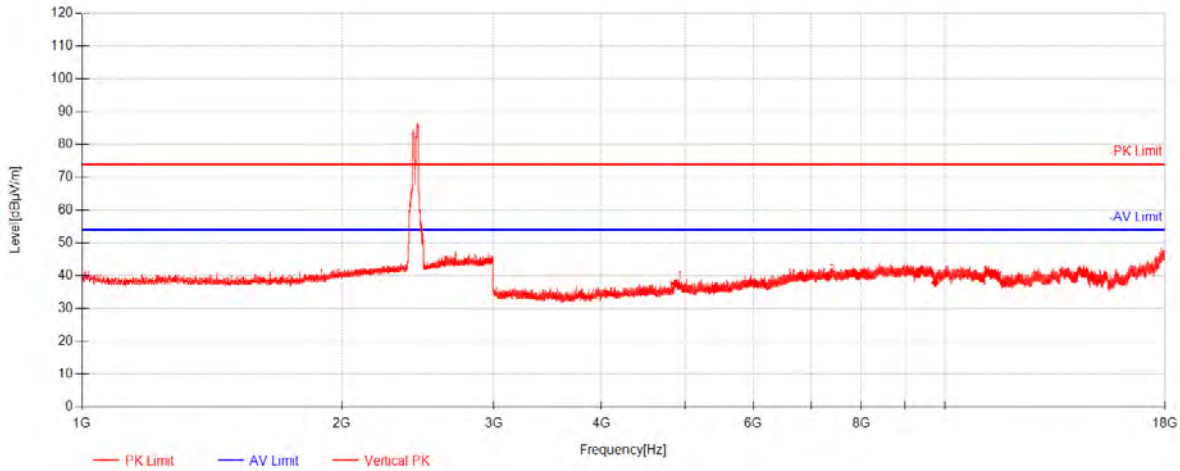


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802.11n40_Channel 06



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	50.58	32.53	-45.53	37.57	74.00	36.43	155	90	Vertical
2	7311.0000	46.94	36.54	-43.71	39.77	74.00	34.23	268	100	Vertical
3	9748.0000	39.09	38.28	-39.46	37.91	74.00	36.09	147	170	Vertical

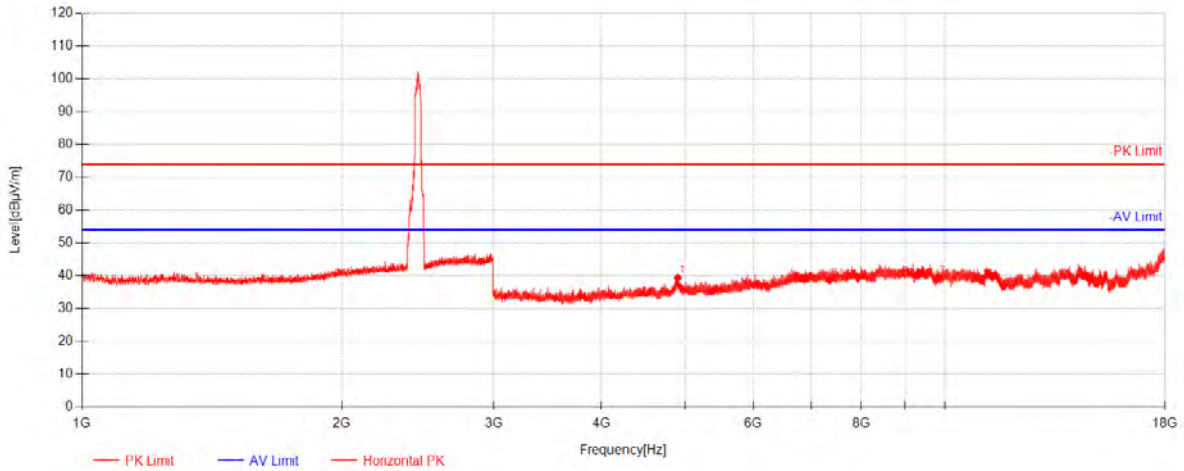


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802.11n40_Channel 09



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	4904.0000	52.26	32.61	-45.53	39.34	74.00	34.66	196	83	Horizontal
2	7356.0000	45.72	36.51	-43.56	38.67	74.00	35.33	185	165	Horizontal
3	9808.0000	40.55	38.23	-39.47	39.31	74.00	34.69	215	136	Horizontal

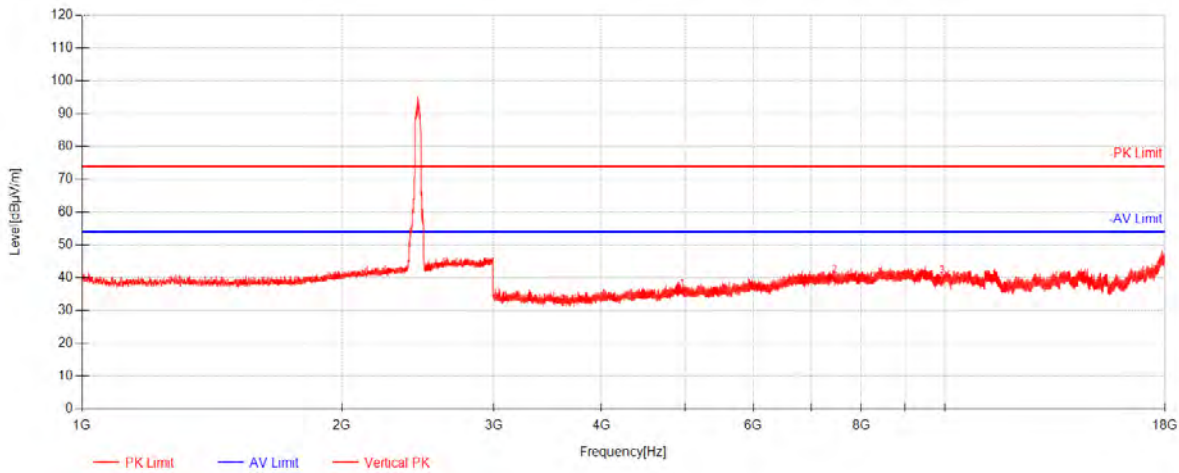


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802.11n40_Channel 09



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	4904.0000	48.66	32.61	-45.53	35.74	74.00	38.26	158	4	Vertical
2	7356.0000	47.28	36.51	-43.56	40.23	74.00	33.77	203	354	Vertical
3	9808.0000	41.09	38.23	-39.47	39.85	74.00	34.15	157	281	Vertical

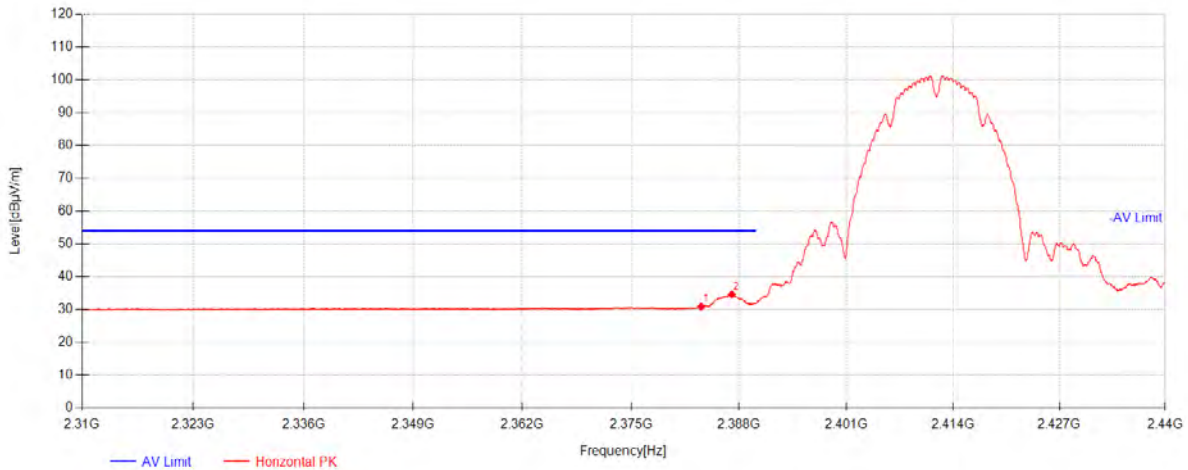
Remark:

- 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



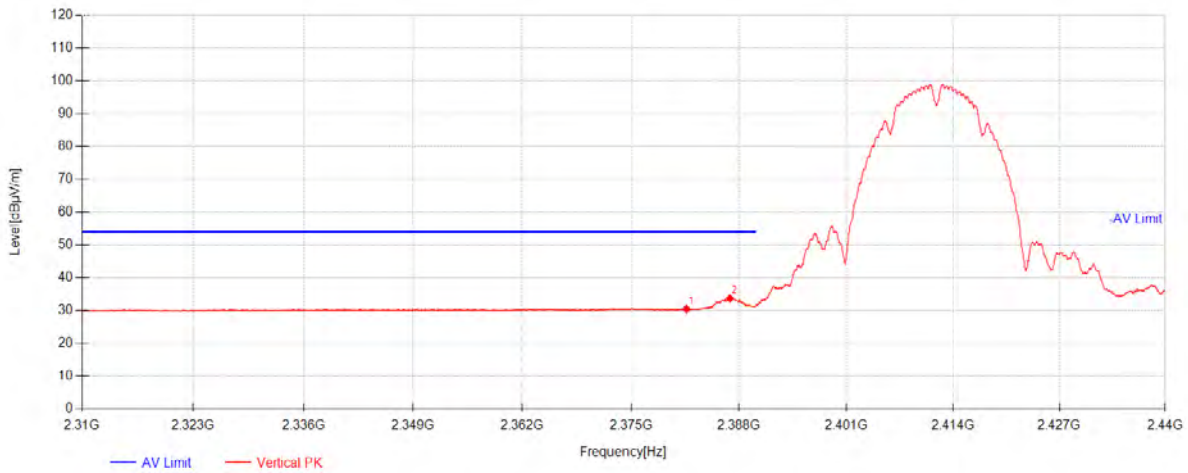
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.45	27.00	27.43	-23.57	30.86	54.00	23.14	152	284	Horizontal
2	2387.1333	30.78	27.43	-23.57	34.64	54.00	19.36	152	284	Horizontal



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802.11b_Channel 01



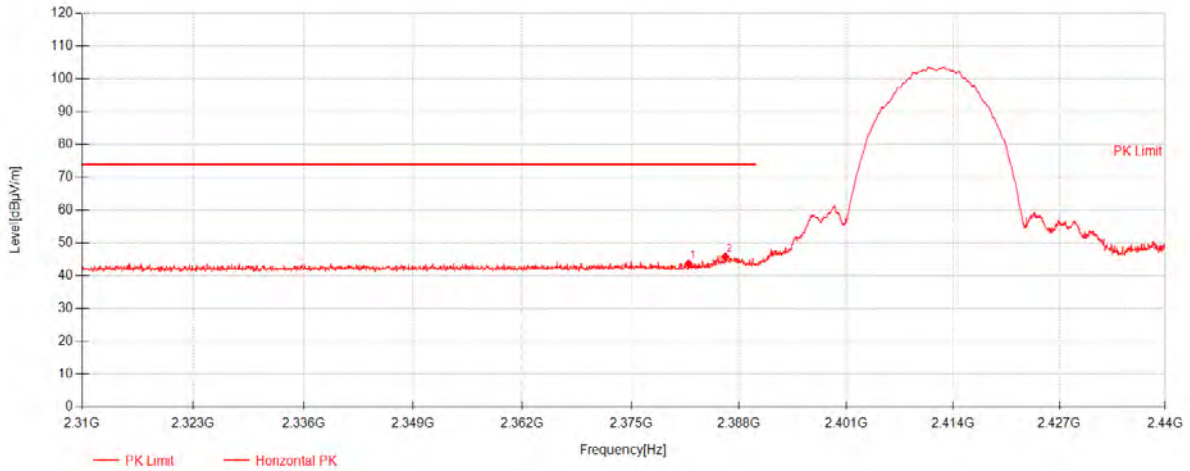
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.6733	26.65	27.43	-23.57	30.51	54.00	23.49	195	252	Vertical
2	2386.9167	29.84	27.43	-23.57	33.70	54.00	20.30	195	252	Vertical



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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	2381.9333	39.81	27.43	-23.57	43.67	74.00	30.33	152	284	Horizontal
2	2386.3533	41.91	27.43	-23.57	45.77	74.00	28.23	152	284	Horizontal

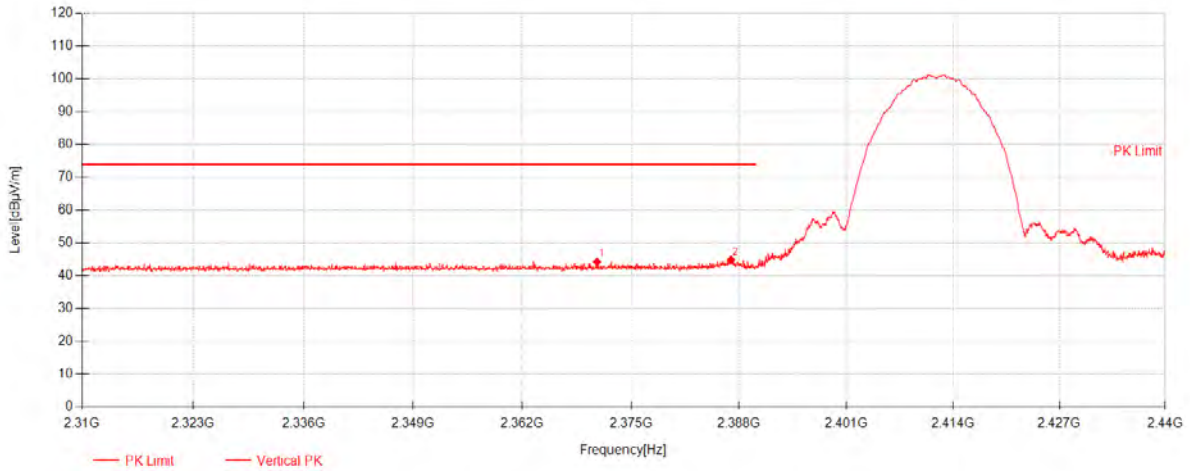


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802.11b_Channel 01



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	2370.9267	40.39	27.43	-23.57	44.24	74.00	29.76	195	252	Vertical
2	2387.0467	41.00	27.43	-23.57	44.86	74.00	29.14	195	252	Vertical

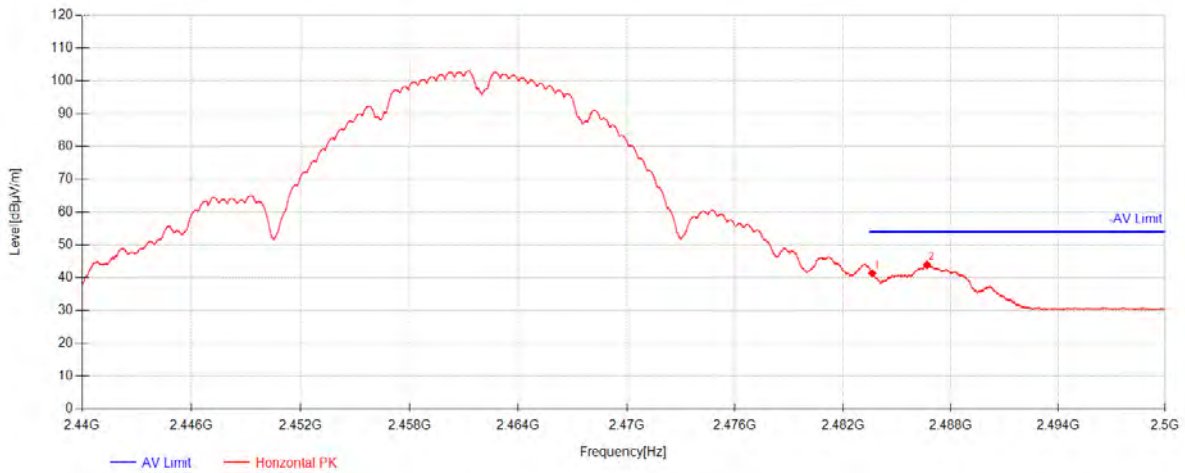


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802.11b_Channel 11



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	37.15	27.72	-23.54	41.32	54.00	12.68	162	284	Horizontal
2	2486.6875	39.77	27.73	-23.54	43.95	54.00	10.05	162	284	Horizontal

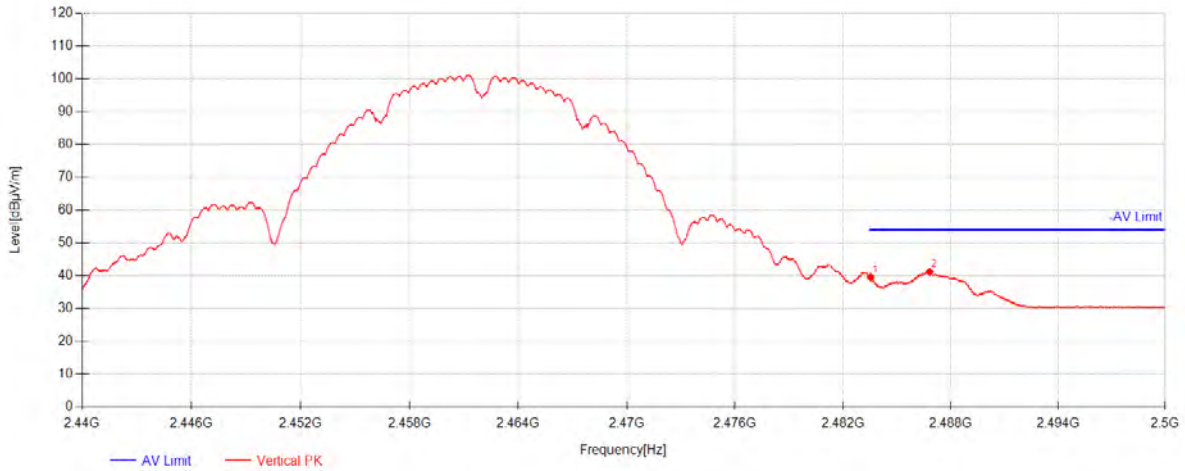


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802.11b_Channel 11



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	35.35	27.72	-23.54	39.52	54.00	14.48	215	269	Vertical
2	2486.83	36.96	27.73	-23.54	41.14	54.00	12.86	215	269	Vertical

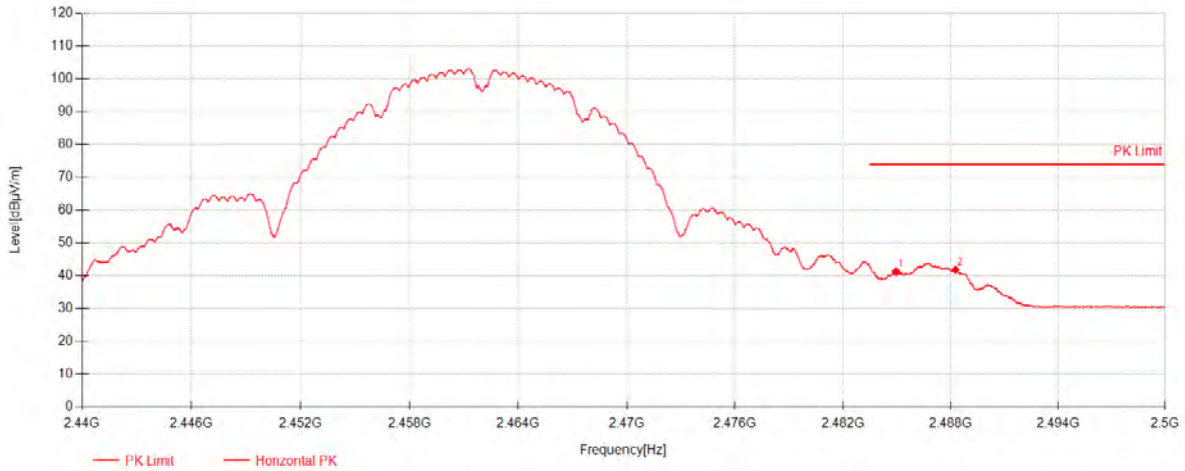


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802.11b_Channel 11



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	2484.955	37.16	27.72	-23.54	41.34	74.00	32.66	162	284	Horizontal
2	2488.2775	37.65	27.73	-23.54	41.84	74.00	32.16	162	284	Horizontal

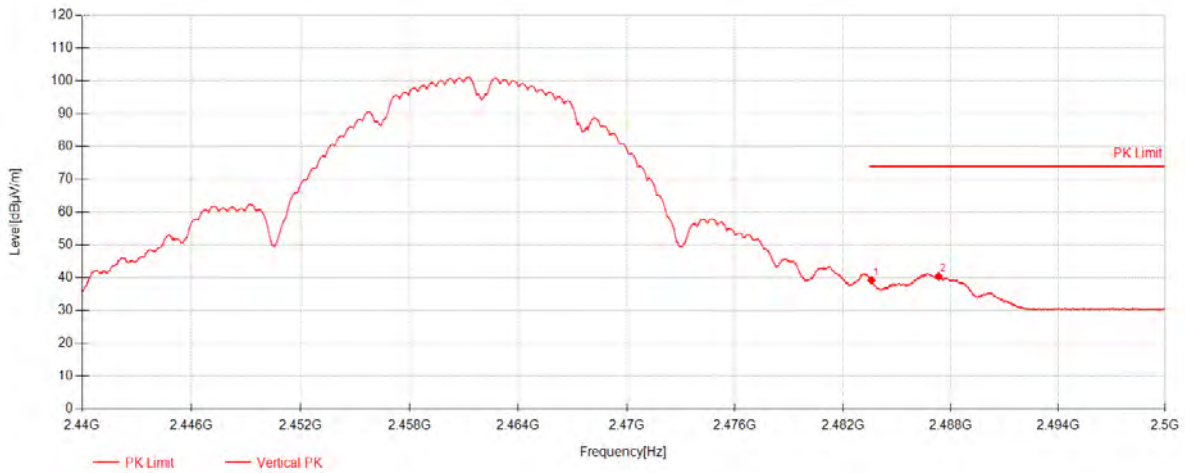


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802.11b_Channel 11



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	2483.59	35.06	27.72	-23.54	39.23	74.00	34.77	215	269	Vertical
2	2487.3325	36.20	27.73	-23.54	40.38	74.00	33.62	215	269	Vertical

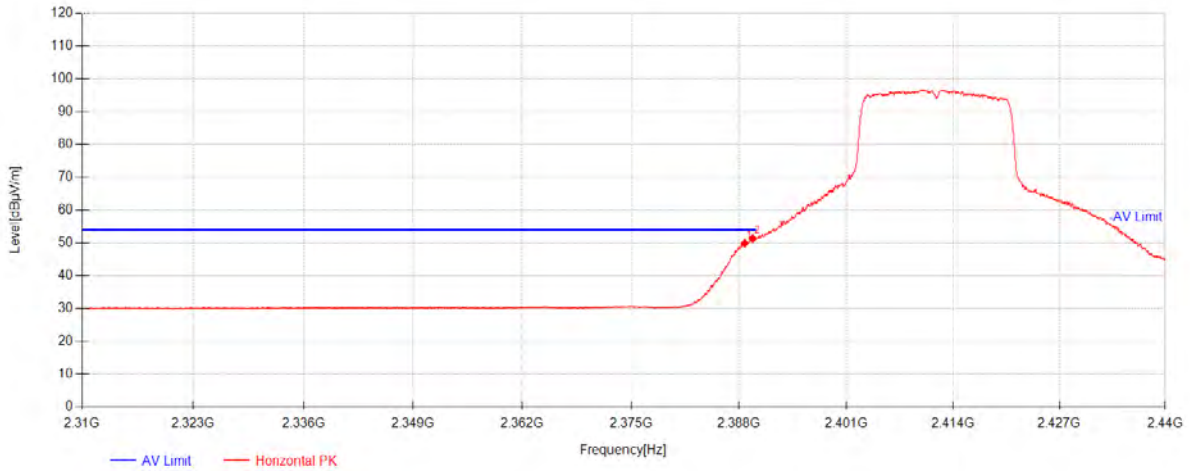


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802.11n20_Channel 01



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	2388.6933	46.06	27.43	-23.57	49.92	54.00	4.08	156	78	Horizontal
2	2389.6467	47.52	27.43	-23.57	51.38	54.00	2.62	156	78	Horizontal

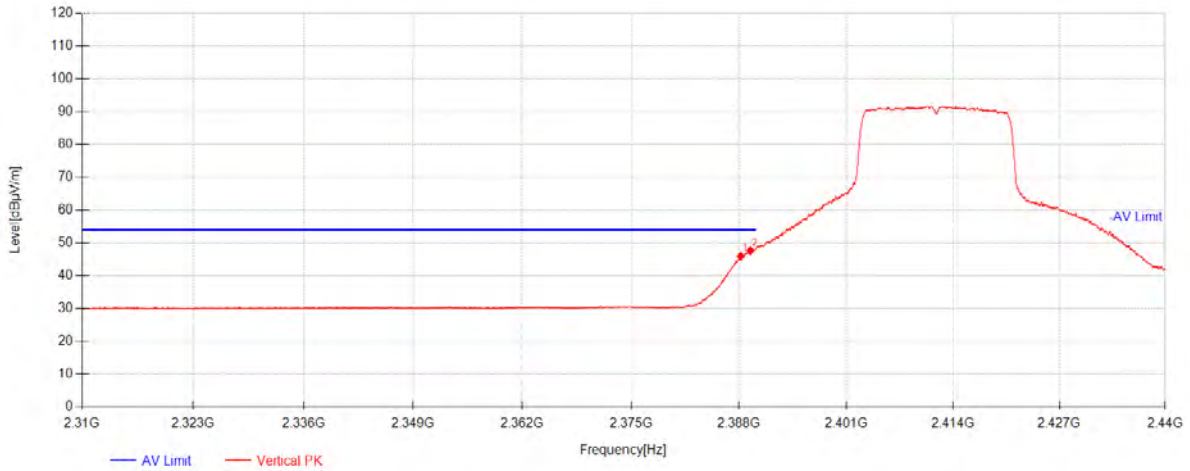


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1	2388.2167	42.11	27.43	-23.57	45.97	54.00	8.03	122	233	Vertical
2	2389.3867	43.79	27.43	-23.57	47.65	54.00	6.35	122	233	Vertical

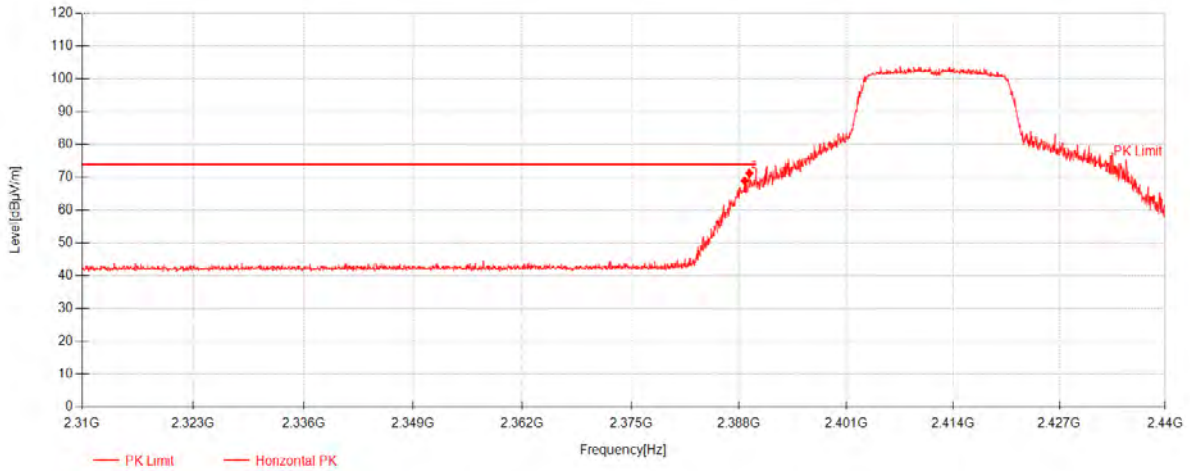


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Data List										
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1	2388.6933	65.13	27.43	-23.57	68.99	74.00	5.01	156	78	Horizontal
2	2389.2567	67.37	27.43	-23.57	71.23	74.00	2.77	156	78	Horizontal

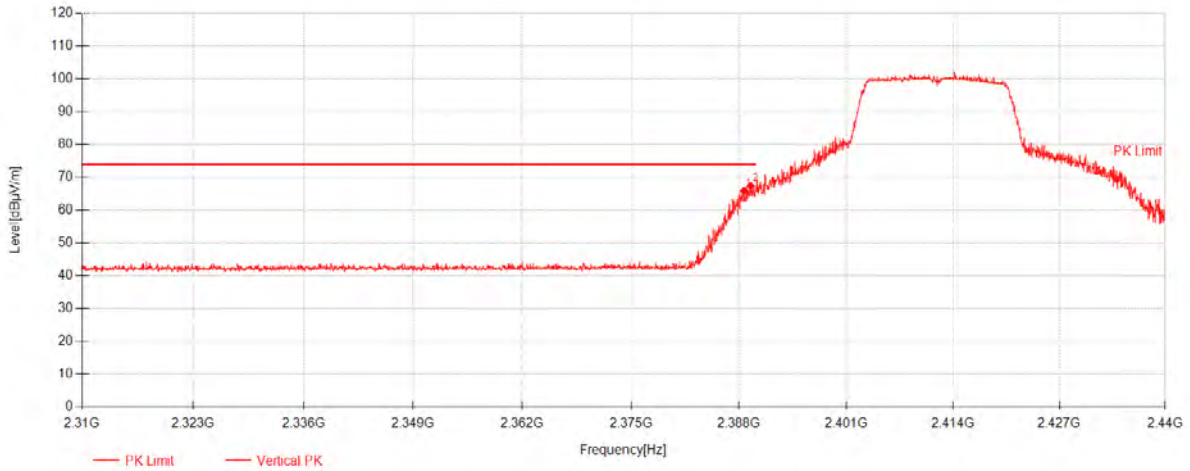


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1	2388.6067	62.02	27.43	-23.57	65.88	74.00	8.12	122	233	Vertical
2	2389.43	63.51	27.43	-23.57	67.37	74.00	6.63	122	233	Vertical

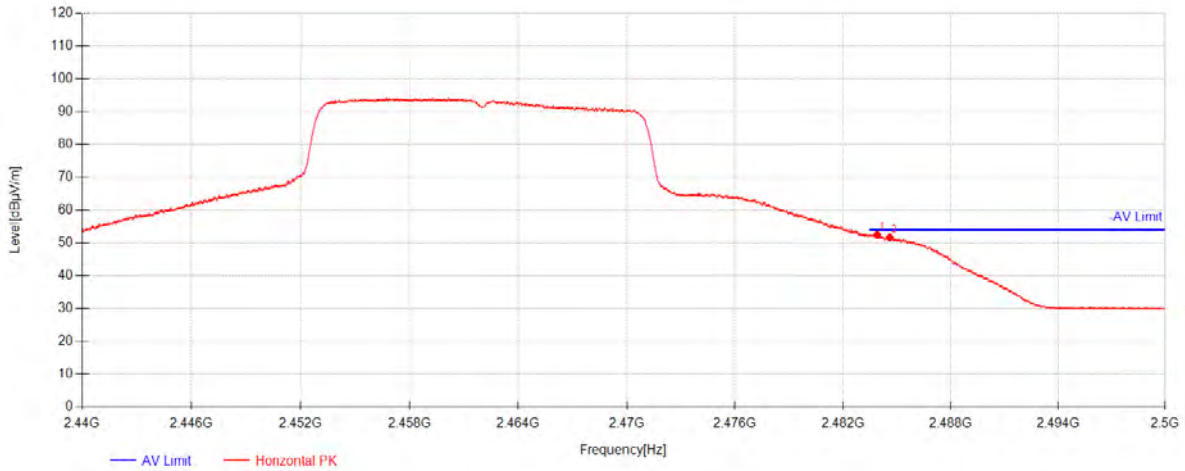


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.905	48.40	27.72	-23.54	52.57	54.00	1.43	126	14	Horizontal
2	2484.61	47.59	27.72	-23.54	51.76	54.00	2.24	126	14	Horizontal

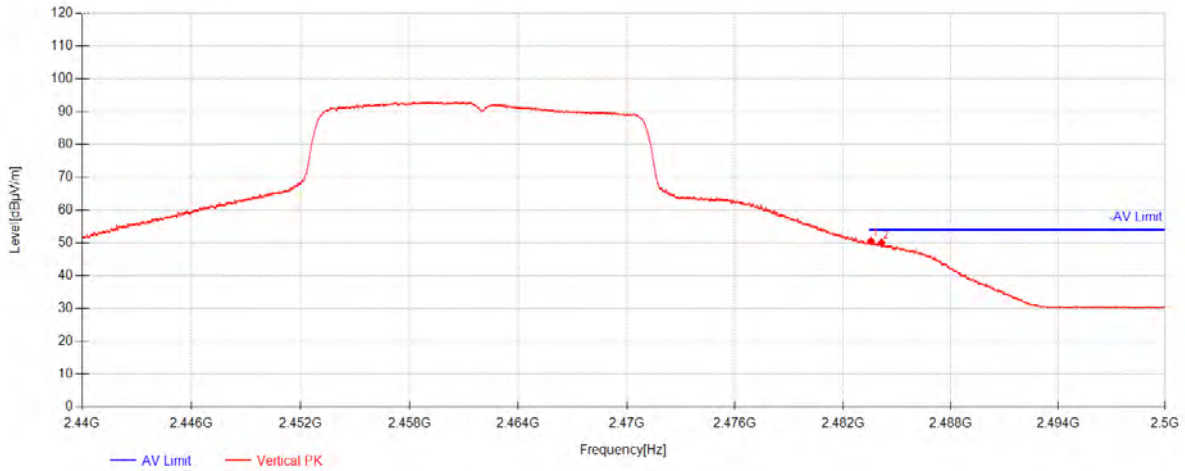


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	46.39	27.72	-23.54	50.56	54.00	3.44	211	257	Vertical
2	2484.1525	45.89	27.72	-23.54	50.06	54.00	3.94	211	257	Vertical

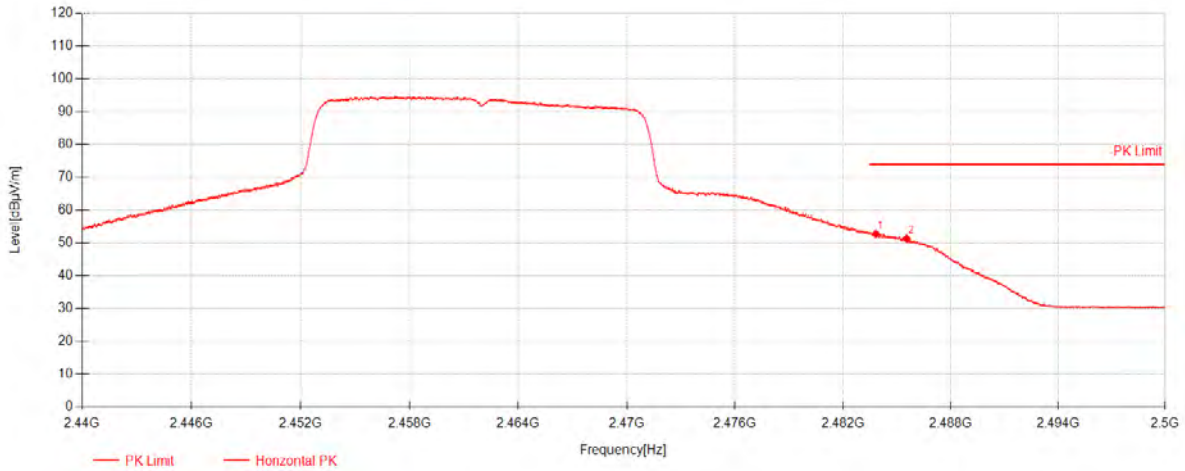


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802.11n20_Channel 11



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	2483.83	48.63	27.72	-23.54	52.80	74.00	21.20	126	14	Horizontal
2	2485.5475	47.19	27.72	-23.54	51.37	74.00	22.63	126	14	Horizontal

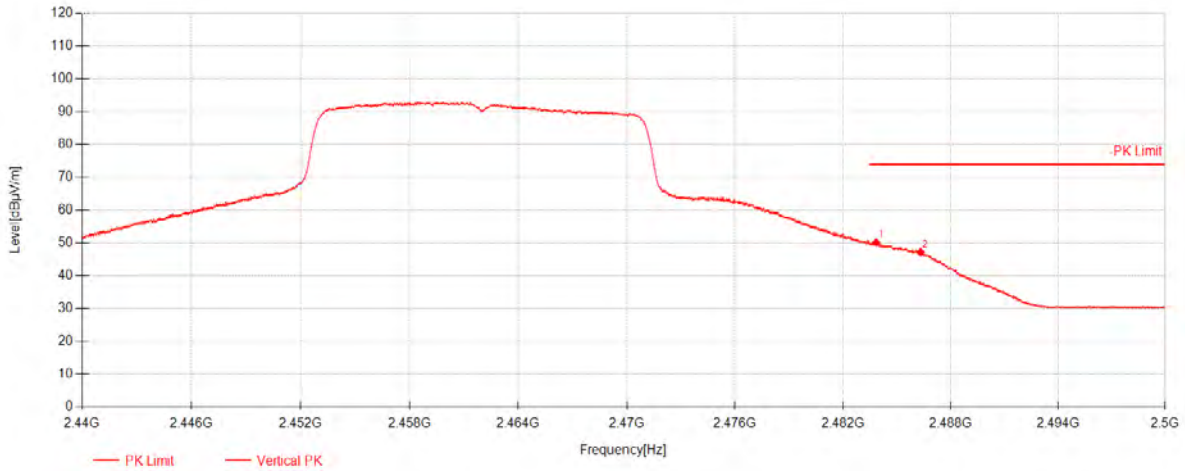


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802.11n20_Channel 11



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	2483.8525	45.98	27.72	-23.54	50.15	74.00	23.85	211	257	Vertical
2	2486.3275	42.99	27.72	-23.54	47.17	74.00	26.83	211	257	Vertical

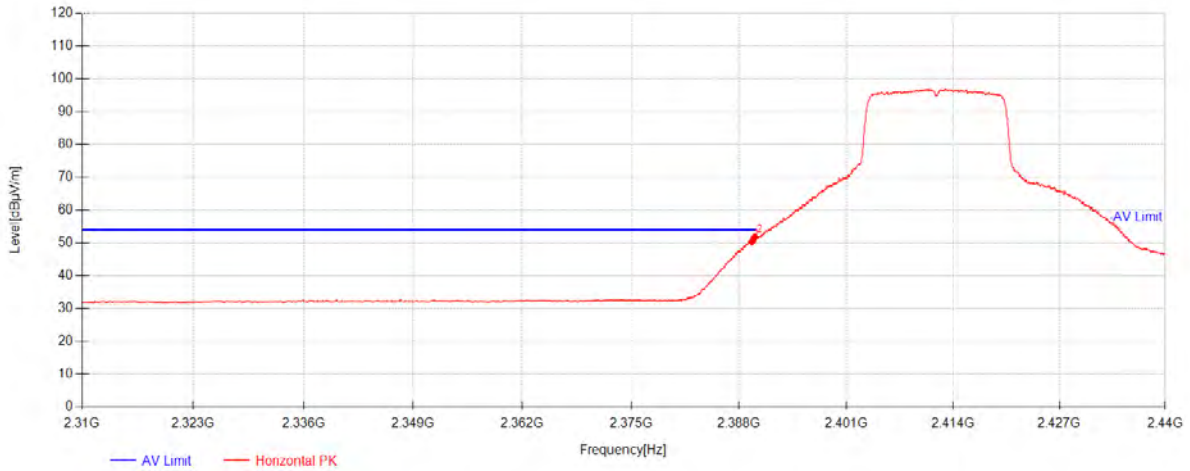


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802.11g_Channel 01



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	2389.56	46.56	27.43	-23.57	50.42	54.00	3.58	155	295	Horizontal
2	2389.9067	47.91	27.43	-23.57	51.77	54.00	2.23	155	295	Horizontal

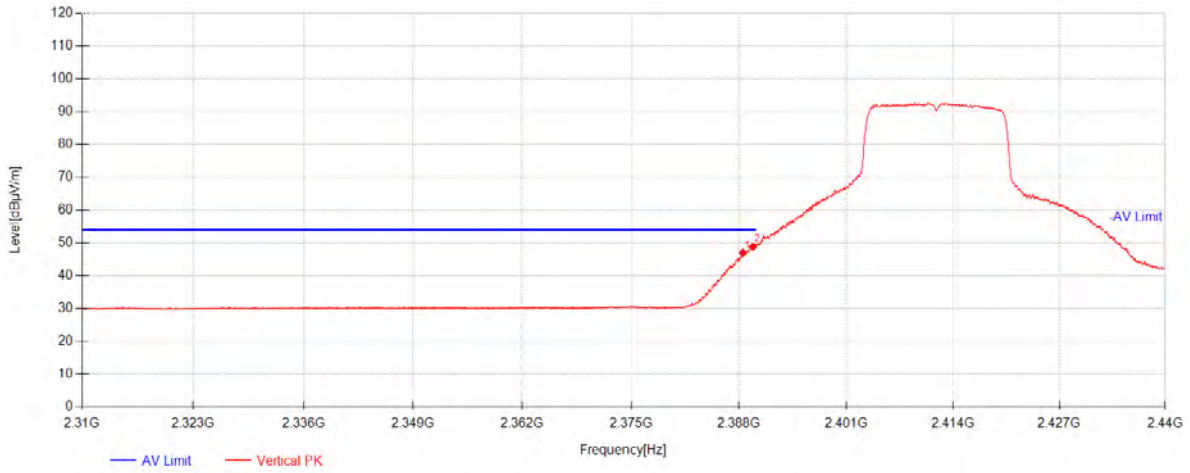


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802.11g_Channel 01



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	2388.4767	43.11	27.43	-23.57	46.97	54.00	7.03	174	233	Vertical
2	2389.69	44.97	27.43	-23.57	48.83	54.00	5.17	174	233	Vertical

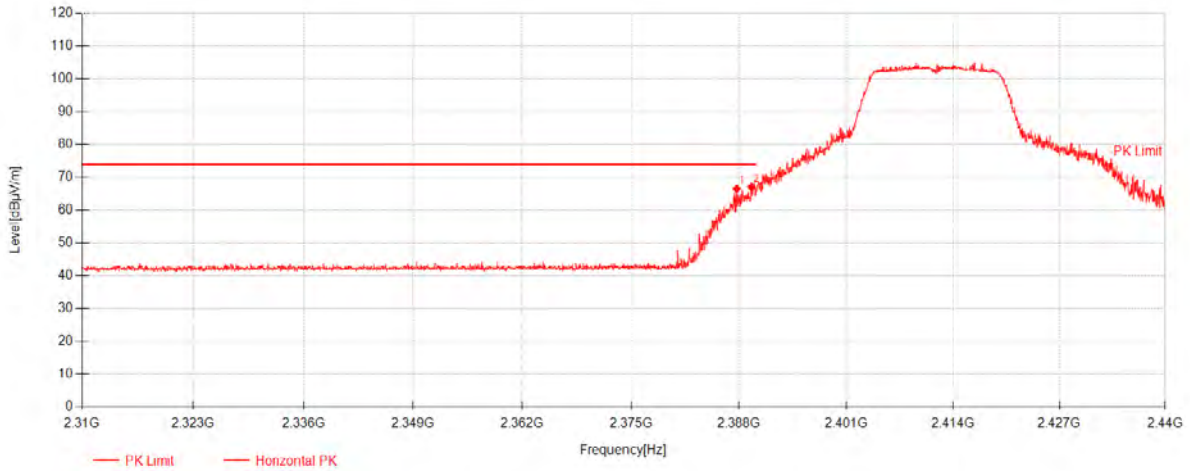


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.74	62.68	27.43	-23.57	66.54	74.00	7.46	155	295	Horizontal
2	2389.5167	63.24	27.43	-23.57	67.10	74.00	6.90	155	295	Horizontal

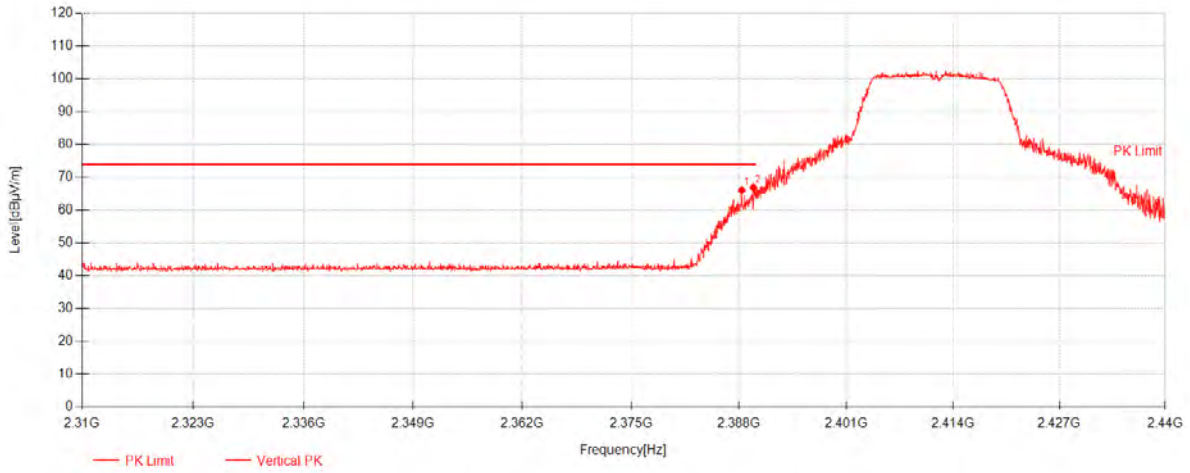


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802.11g_Channel 01



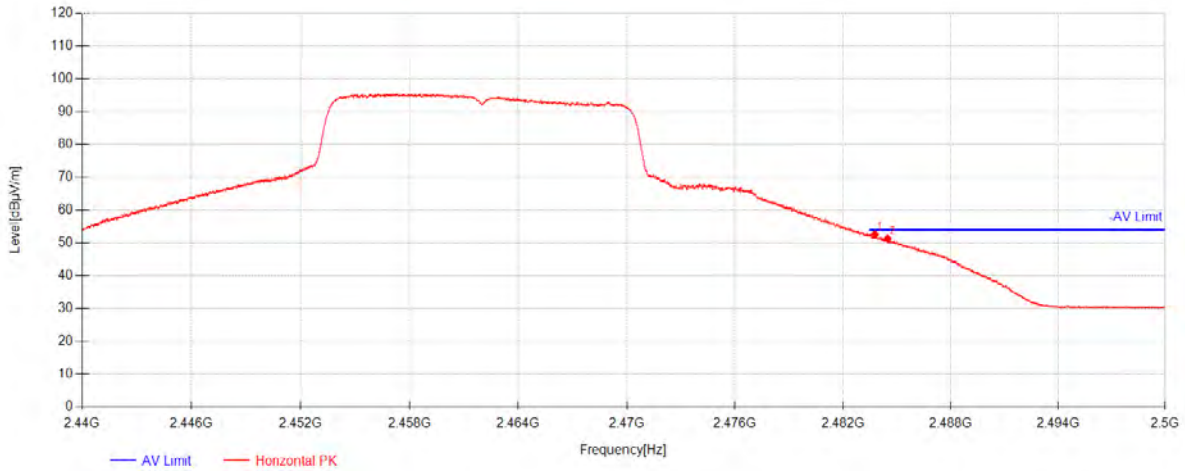
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.3467	62.25	27.43	-23.57	66.11	74.00	7.89	174	233	Vertical
2	2389.7333	63.08	27.43	-23.57	66.94	74.00	7.06	174	233	Vertical



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802.11g_Channel 11



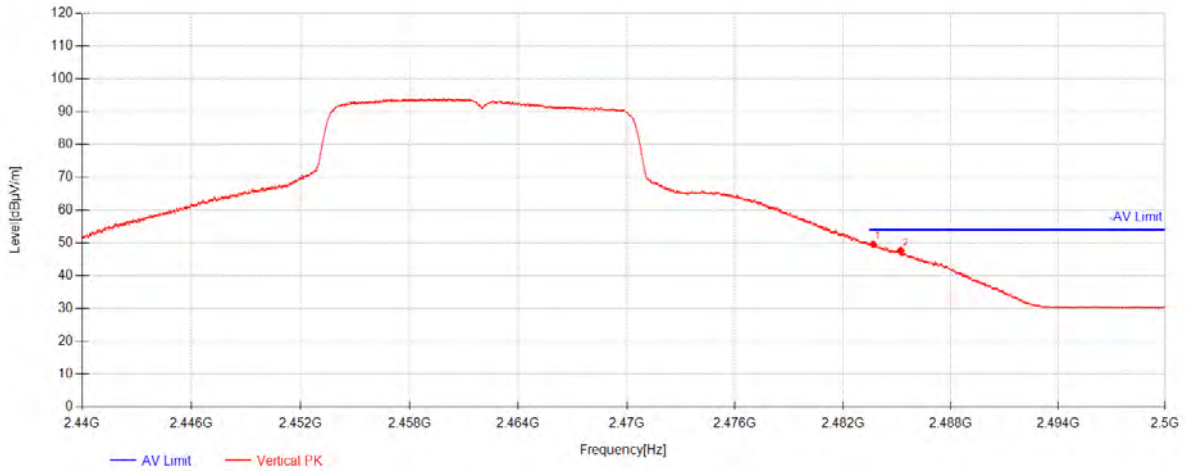
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7775	48.47	27.72	-23.54	52.64	54.00	1.36	136	20	Horizontal
2	2484.49	47.15	27.72	-23.54	51.32	54.00	2.68	136	20	Horizontal



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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	2483.6875	45.42	27.72	-23.54	49.59	54.00	4.41	169	251	Vertical
2	2485.2175	43.44	27.72	-23.54	47.62	54.00	6.38	169	251	Vertical

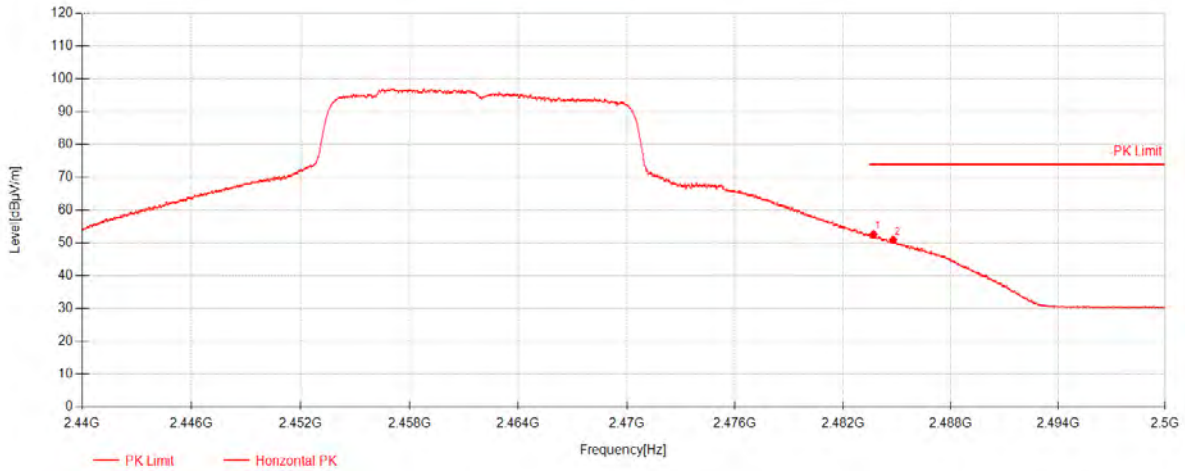


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802.11g_Channel 11



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	2483.71	48.53	27.72	-23.54	52.70	74.00	21.30	136	20	Horizontal
2	2484.7975	46.86	27.72	-23.54	51.04	74.00	22.96	136	20	Horizontal

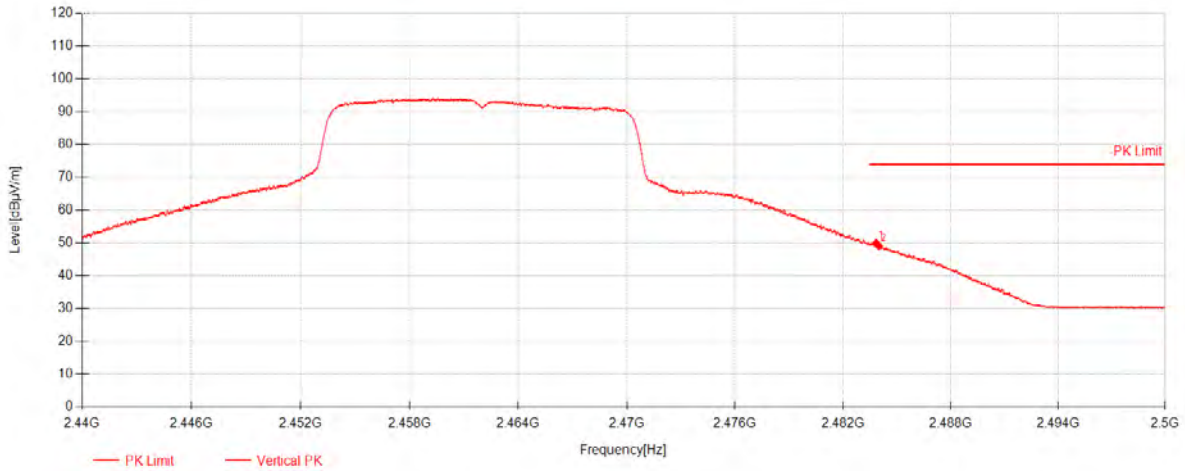


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802.11g_Channel 11



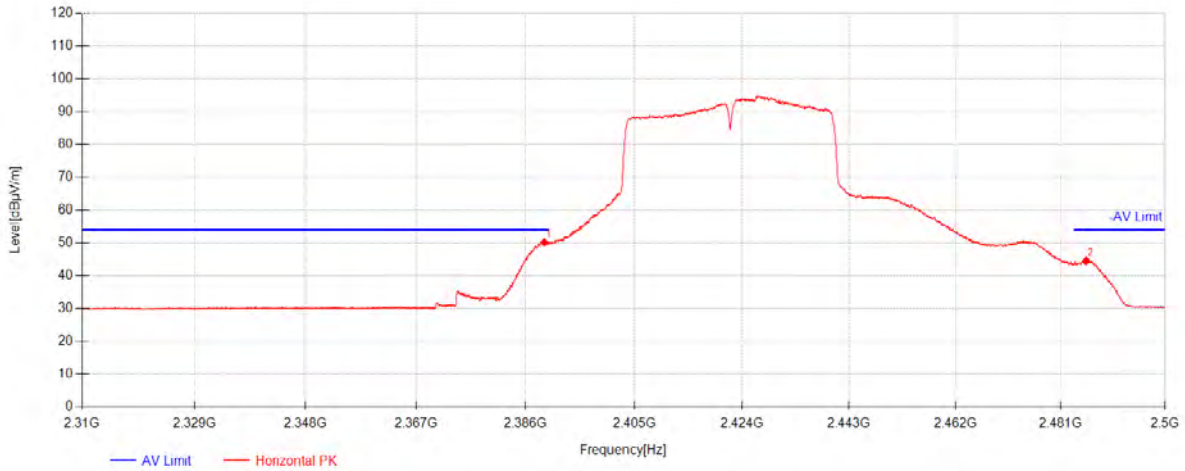
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8525	45.87	27.72	-23.54	50.04	74.00	23.96	169	251	Vertical
2	2483.995	44.91	27.72	-23.54	49.08	74.00	24.92	169	251	Vertical



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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	2389.2567	46.33	27.43	-23.57	50.19	54.00	3.81	203	144	Horizontal
2	2485.66	40.41	27.72	-23.54	44.59	54.00	9.41	203	144	Horizontal



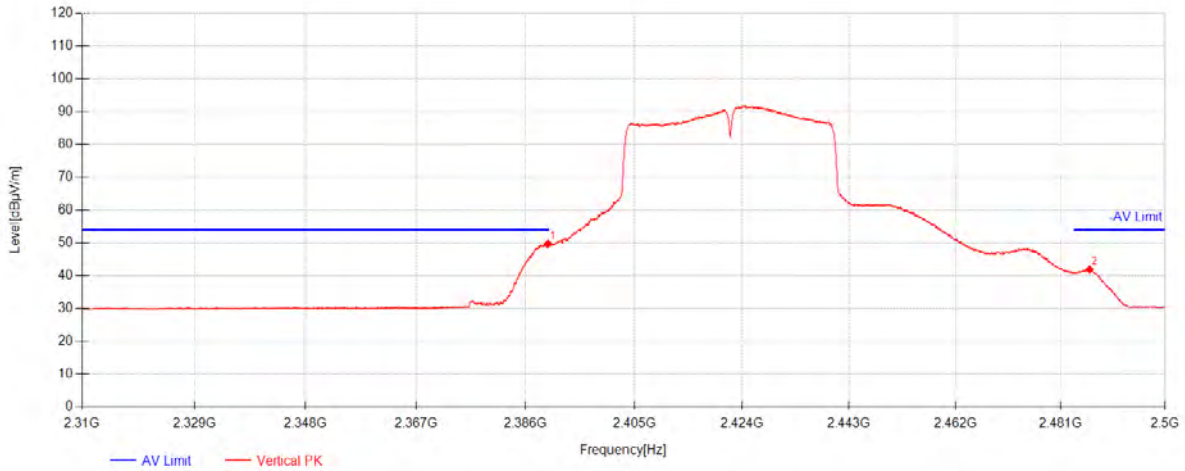
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802.11n40_Channel 03



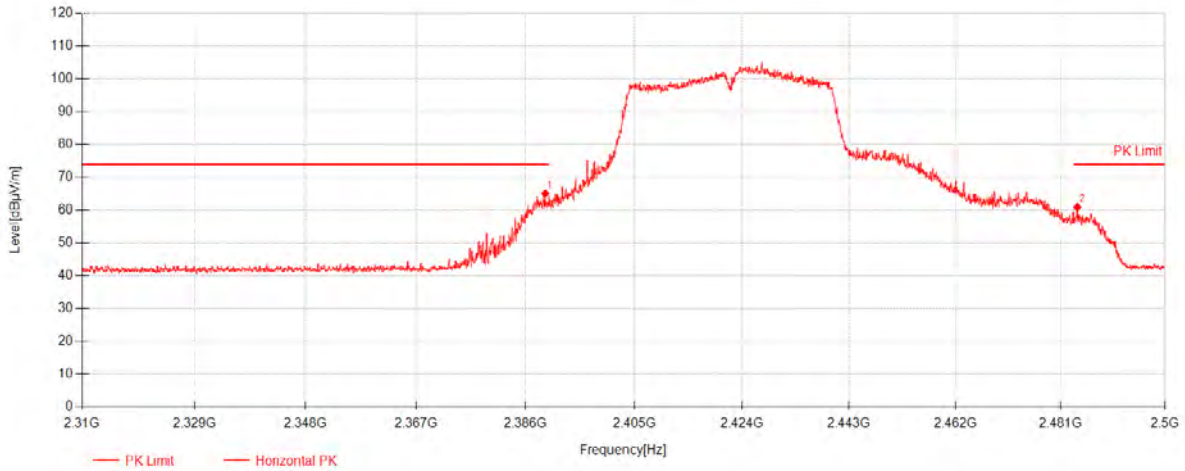
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9067	45.93	27.43	-23.57	49.79	54.00	4.21	177	252	Vertical
2	2486.26	37.73	27.72	-23.54	41.91	54.00	12.09	177	252	Vertical



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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	61.22	27.43	-23.57	65.08	74.00	8.92	203	144	Horizontal
2	2484.04	56.78	27.72	-23.54	60.95	74.00	13.05	203	144	Horizontal

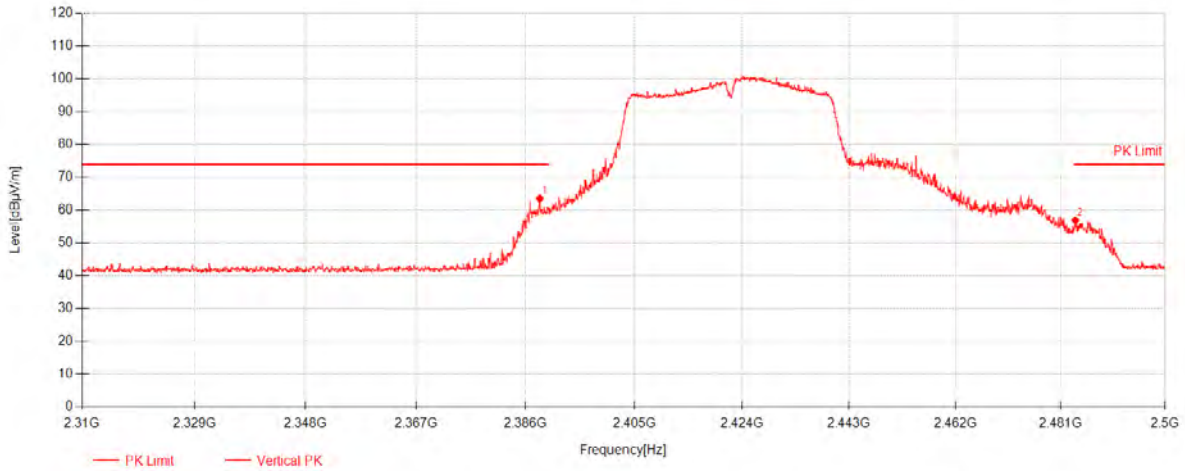


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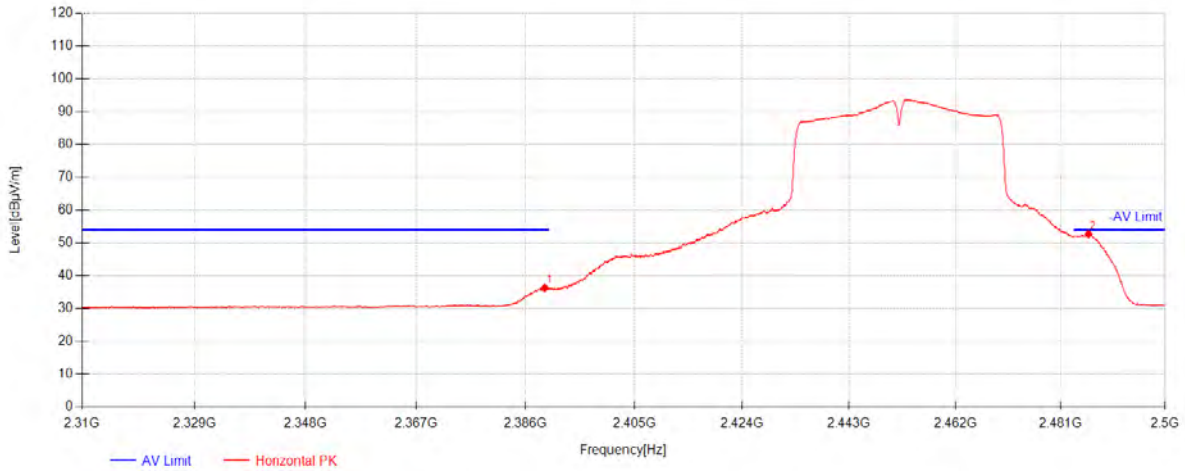
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.4767	59.63	27.43	-23.57	63.49	74.00	10.51	177	252	Vertical
2	2483.68	52.67	27.72	-23.54	56.84	74.00	17.16	177	252	Vertical



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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	2389.3433	32.49	27.43	-23.57	36.35	54.00	17.65	155	211	Horizontal
2	2486.08	48.59	27.72	-23.54	52.77	54.00	1.23	155	211	Horizontal

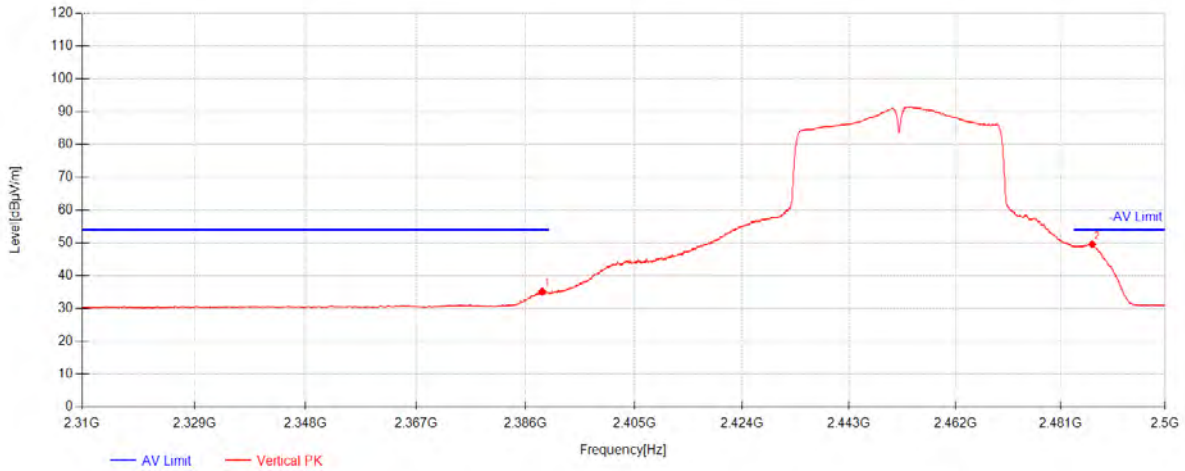


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.91	31.37	27.43	-23.57	35.23	54.00	18.77	175	253	Vertical
2	2486.74	45.43	27.73	-23.54	49.61	54.00	4.39	175	253	Vertical

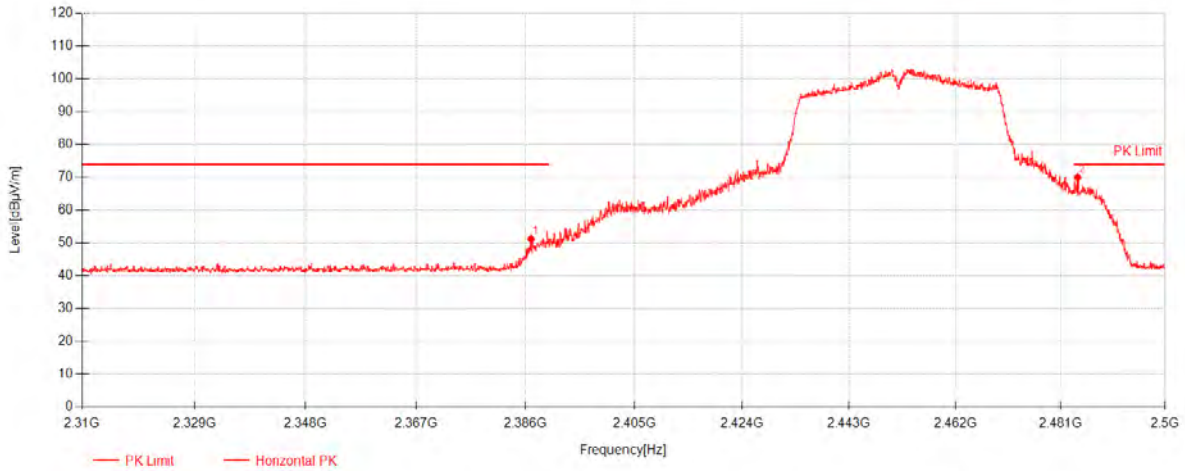


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802.11n40_Channel 09



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	2386.96	47.42	27.43	-23.57	51.28	74.00	22.72	155	211	Horizontal
2	2484.1	65.81	27.72	-23.54	69.98	74.00	4.02	155	211	Horizontal

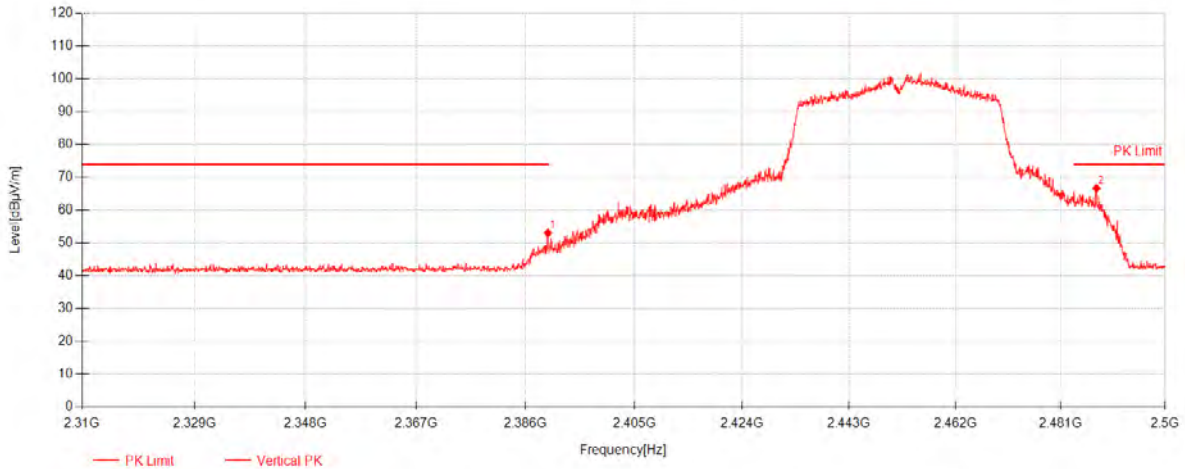


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802.1n40_Channel 09



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	2389.9067	49.18	27.43	-23.57	53.04	74.00	20.96	175	253	Vertical
2	2487.52	62.53	27.73	-23.54	66.72	74.00	7.28	175	253	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---



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