

Report No.: SEWA2210000062RG03
 Rev.: 01
 Page: 1 of 134

TEST REPORT

Application No.: SEWA2210000062RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi&Bluetooth Module
Model No.: FC900E
Trade Mark: Quectel
FCC ID: XMR202210FC900E
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/11/06
Date of Test: 2022/11/21 to 2022/12/14
Date of Issue: 2022/12/15

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:


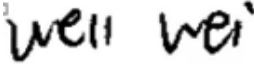
Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/15		Original

Prepared By		 <hr/> (Ives Cheng) / 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 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to the customer's difference statement, the RF chip is different. The RF chip is changed from QCA1023-0 to QCA9377-3. This difference will not affect the RF performance of the prototype

Model	QCA1023-0 version	QCA9377-3 version
FC900E	R1.0	R2.0

Only QCA1023-0 version was fully tested, RSE and power were tested on worst mode for QCA9377-3 version, and only the worst data is presented in the report.



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3 General Information

3.1 Details of Client

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

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	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:	Wi-Fi&Bluetooth Module	
Model No.:	FC900E	
Trade Mark:	Quectel	
Hardware Version:	QCA1023-0: R1.0 QCA9377-3: R2.0	
Software Version:	FC900E	
IMEI:	RF Conducted	868794069992484
	RSE & AC power line	864337056149348
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:	External Antenna	
Antenna Gain:	0.73dBi	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
<p>Remark:</p> <p>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>		



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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				



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.30
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	N/A
Remark: all above the information of table are provided by client.		

3.7 Worst-case configuration and mode

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

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



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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 External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.73dBi. *</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: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p>		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



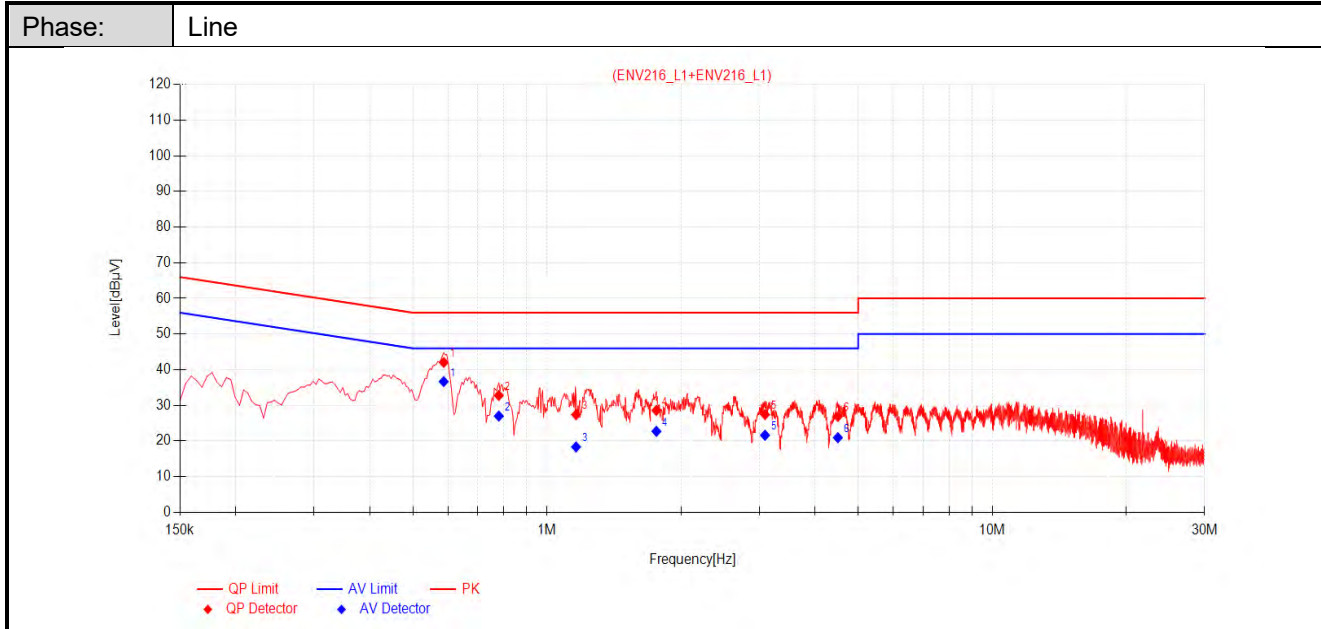
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5865	10.51	31.54	42.05	56.00	13.95	26.16	36.67	46.00	9.33	PASS
2	0.7800	10.52	22.26	32.78	56.00	23.22	16.47	26.99	46.00	19.01	PASS
3	1.1625	10.72	16.66	27.38	56.00	28.62	7.62	18.34	46.00	27.66	PASS
4	1.7610	10.72	17.88	28.60	56.00	27.40	11.99	22.71	46.00	23.29	PASS
5	3.0885	10.67	16.74	27.41	56.00	28.59	10.96	21.63	46.00	24.37	PASS
6	4.5015	10.68	16.21	26.89	56.00	29.11	10.27	20.95	46.00	25.05	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]

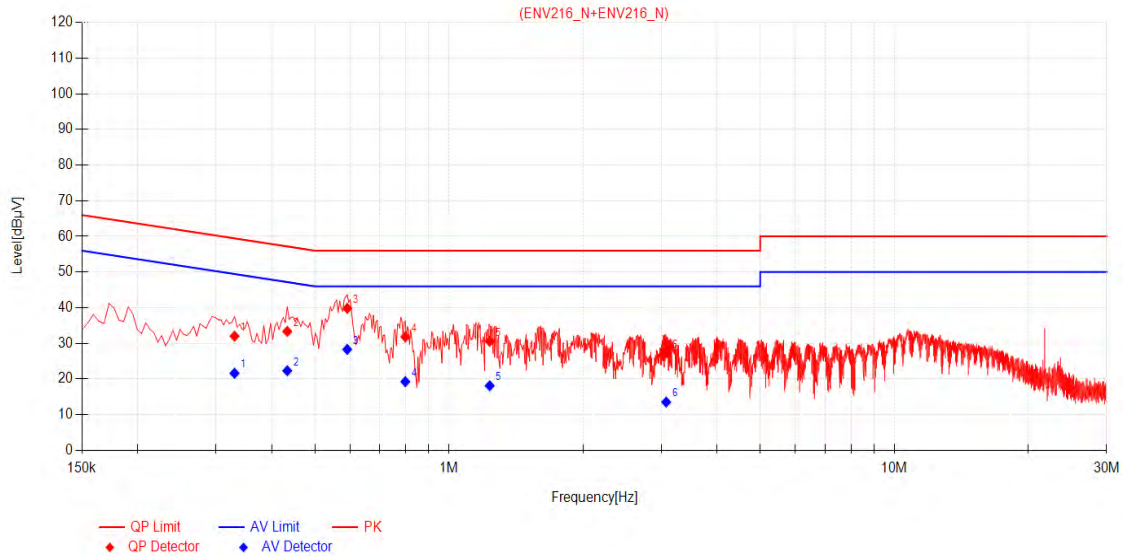


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Phase: Neutral



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3300	10.79	21.21	32.00	59.45	27.45	10.82	21.61	49.45	27.84	PASS
2	0.4335	10.83	22.52	33.35	57.19	23.84	11.48	22.31	47.19	24.88	PASS
3	0.5910	10.69	29.13	39.82	56.00	16.18	17.62	28.31	46.00	17.69	PASS
4	0.7980	10.80	21.04	31.84	56.00	24.16	8.45	19.25	46.00	26.75	PASS
5	1.2345	10.78	19.81	30.59	56.00	25.41	7.33	18.11	46.00	27.89	PASS
6	3.0750	10.59	16.70	27.29	56.00	28.71	2.94	13.53	46.00	32.47	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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Report No.: SEWA2210000062RG03

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 :2013 Section11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 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 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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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: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

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

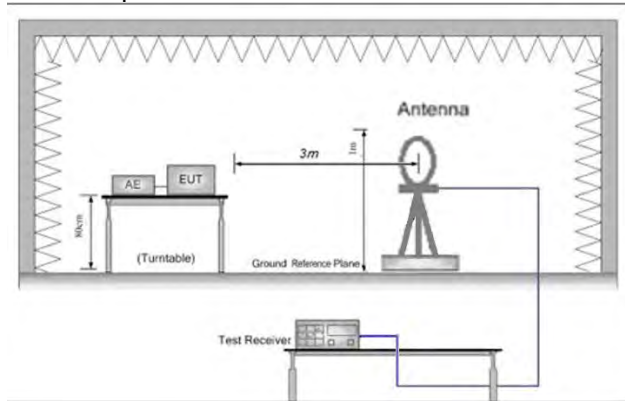


Figure 1. Below 30MHz

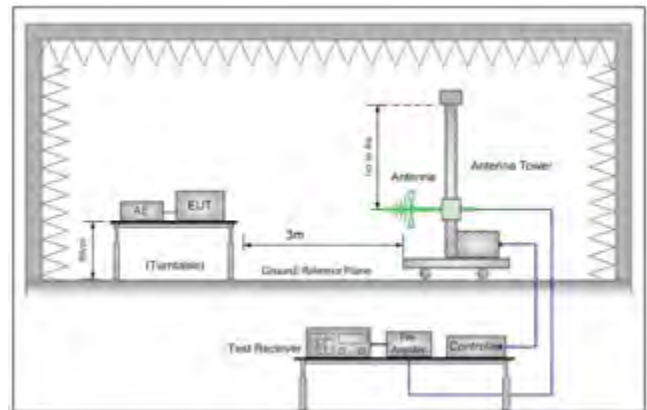


Figure 2. 30MHz to 1GHz

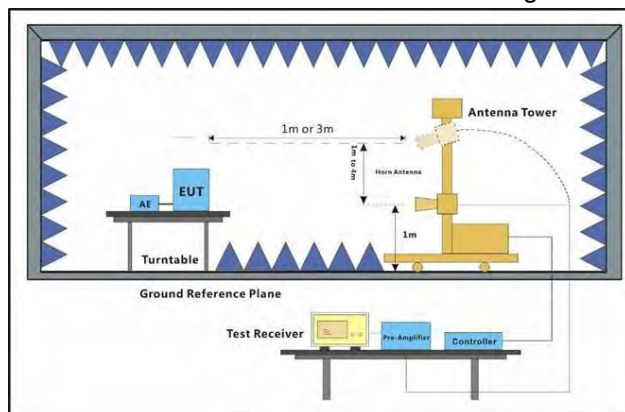


Figure 3. Above 1 GHz

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 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

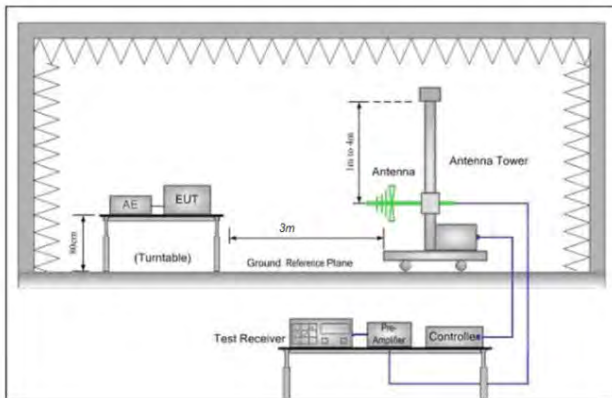


Figure 1. 30MHz to 1GHz

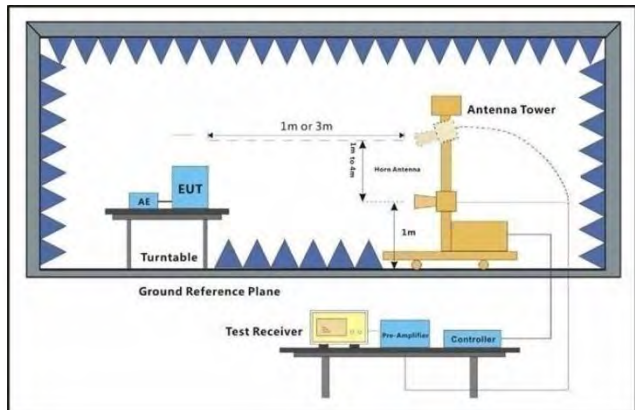


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
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	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	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-01-01-15	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	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
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	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2021/12/04	2022/12/03
				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	Ant1	2412	8.12	2407.92	2416.04	≥0.5	PASS
		2437	8.12	2432.92	2441.04	≥0.5	PASS
		2462	8.12	2457.92	2466.04	≥0.5	PASS
11g	Ant1	2412	14.56	2404.36	2418.92	≥0.5	PASS
		2437	15.16	2429.40	2444.56	≥0.5	PASS
		2462	14.52	2455.04	2469.56	≥0.5	PASS
11n20SISO	Ant1	2412	15.16	2404.40	2419.56	≥0.5	PASS
		2437	15.12	2429.48	2444.60	≥0.5	PASS
		2462	15.08	2454.48	2469.56	≥0.5	PASS
11n40SISO	Ant1	2422	32.88	2405.52	2438.40	≥0.5	PASS
		2427	32.72	2409.32	2442.04	≥0.5	PASS
		2437	35.28	2419.32	2454.60	≥0.5	PASS
		2447	35.20	2429.40	2464.60	≥0.5	PASS
		2452	34.00	2435.60	2469.60	≥0.5	PASS



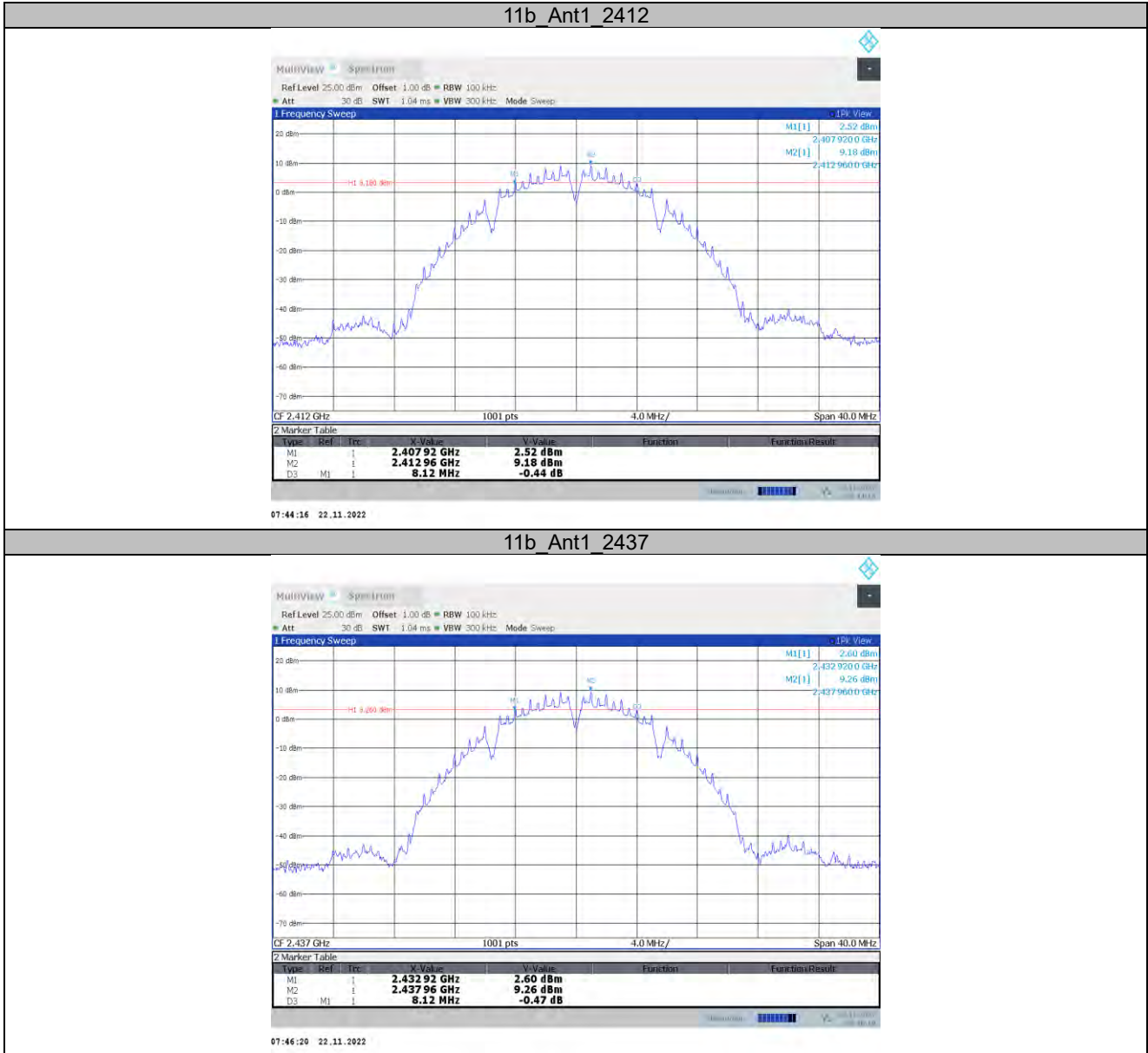
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Test Graphs



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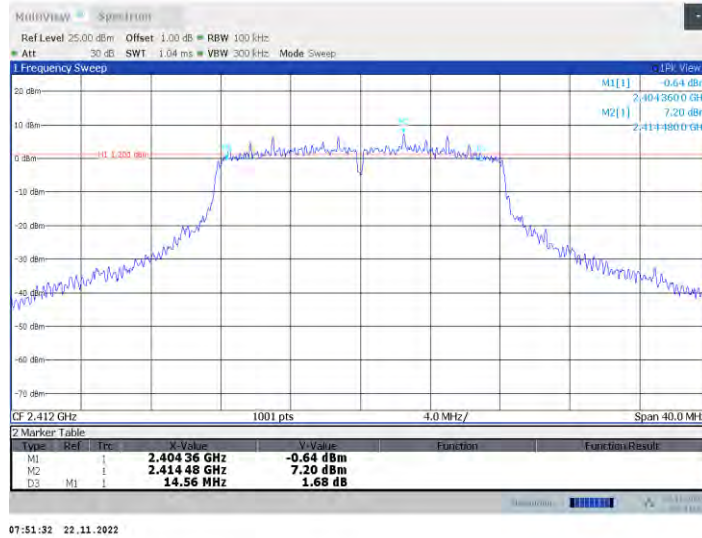
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11b Ant1 2462



11g Ant1 2412

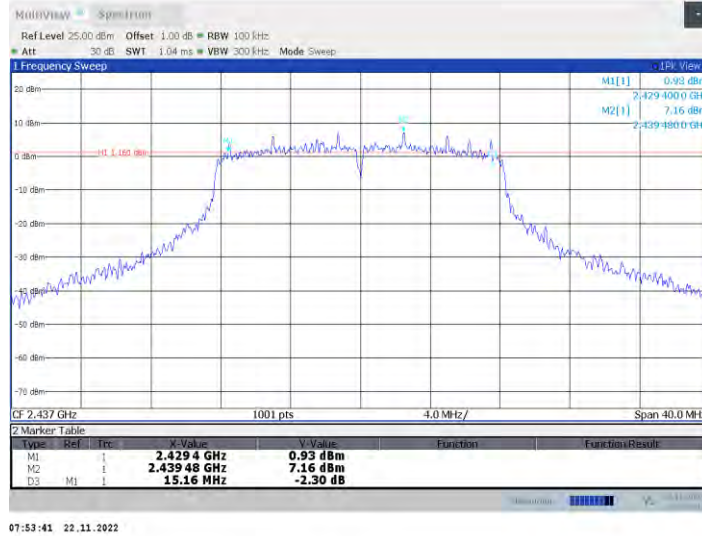


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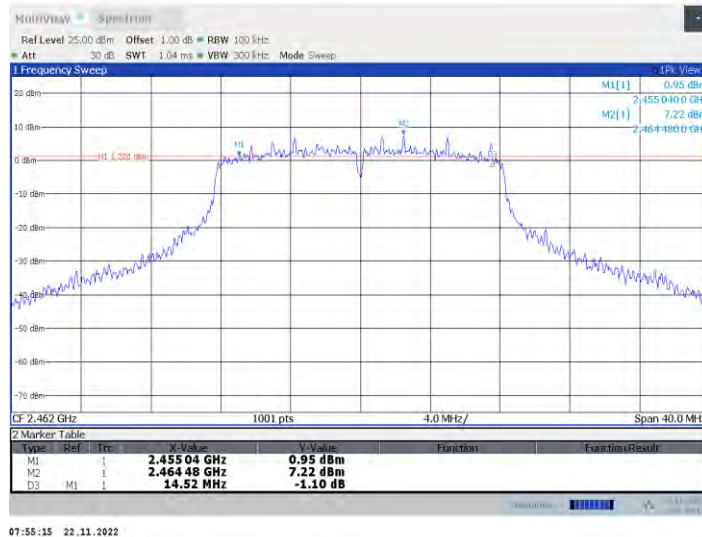
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11g Ant1 2437



11g Ant1 2462

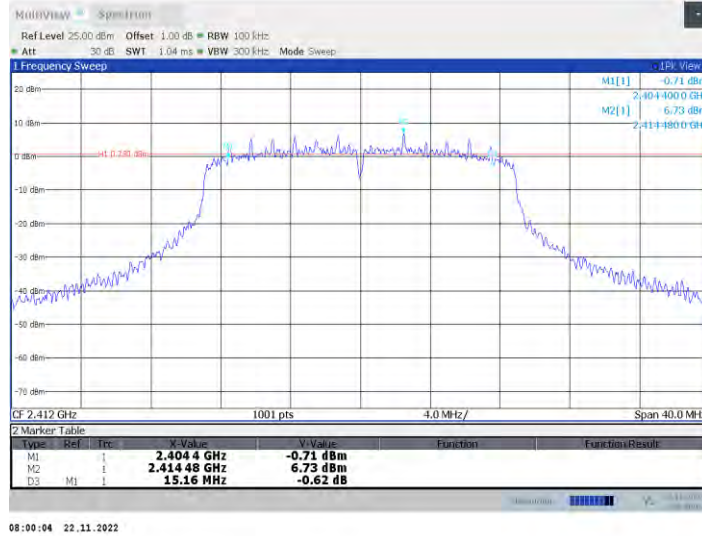


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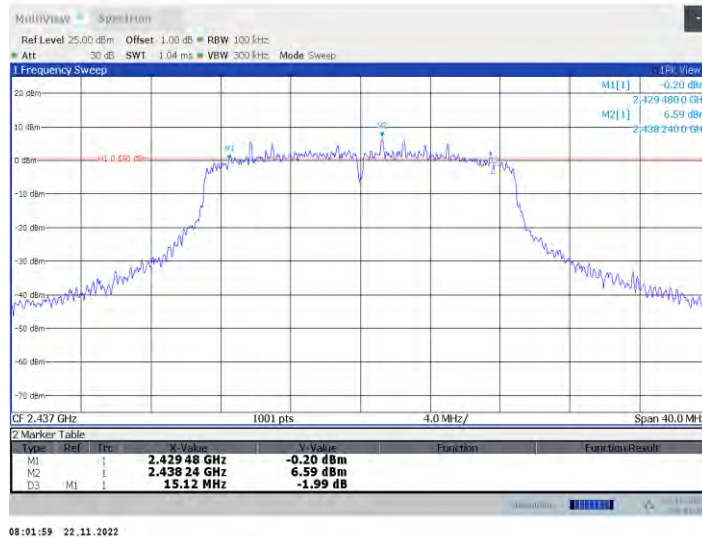
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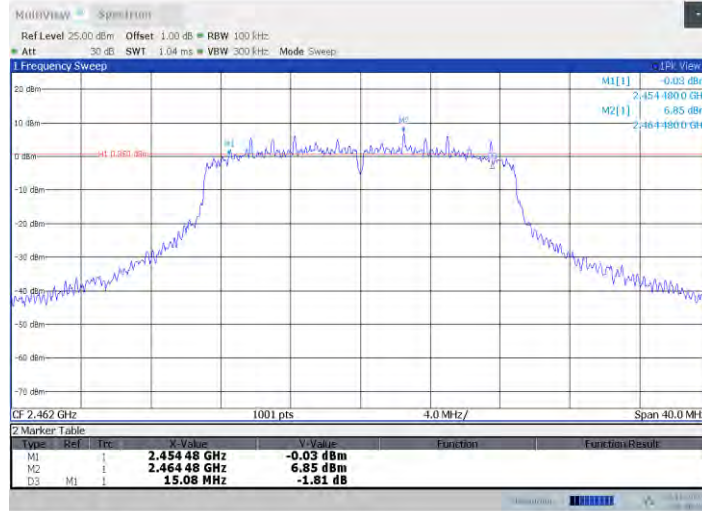


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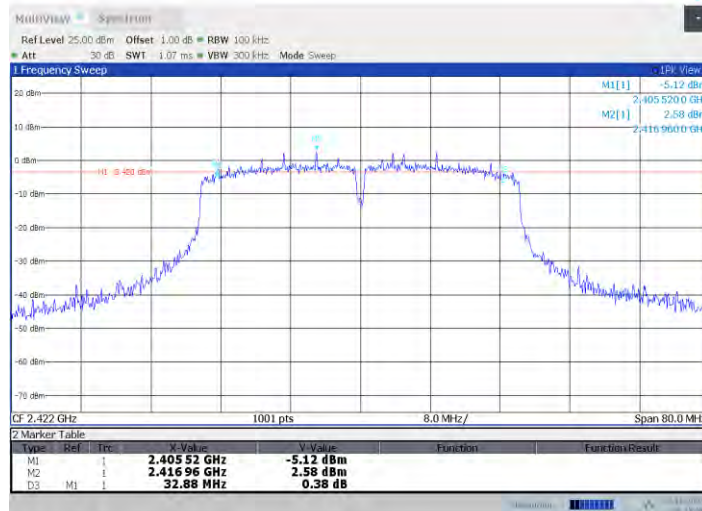
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11n40SISO_Ant1_2422



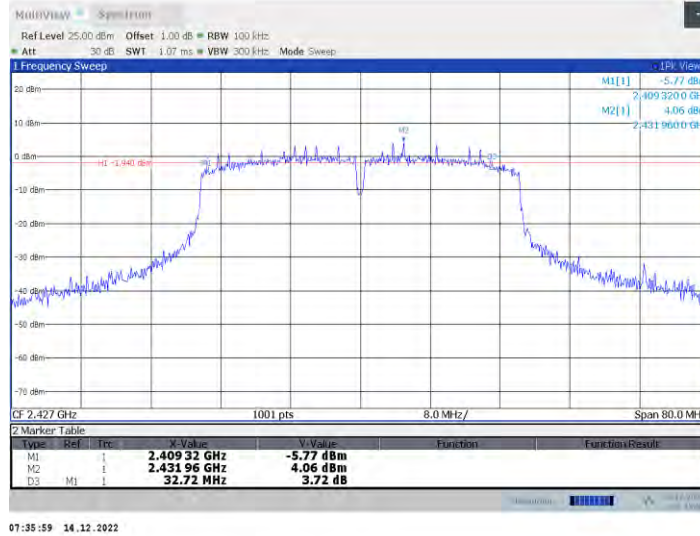
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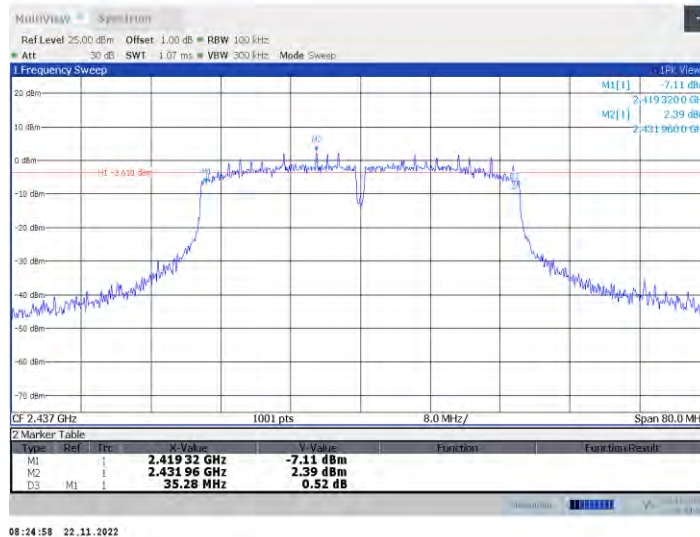
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11n40SISO_Ant1_2437

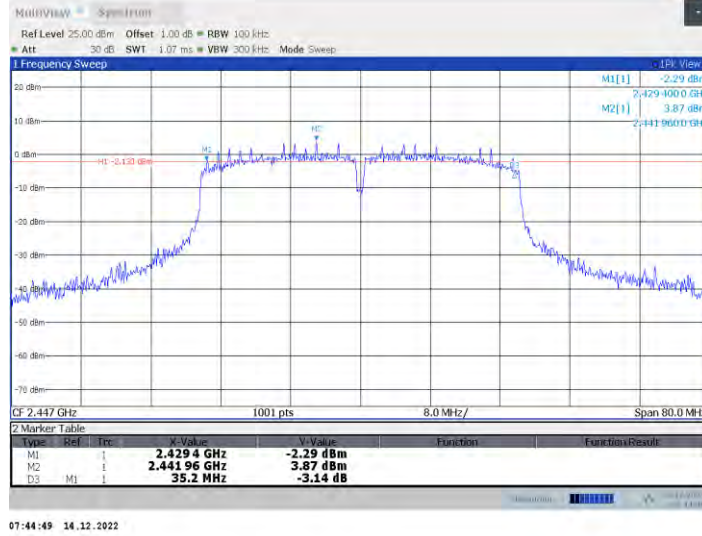


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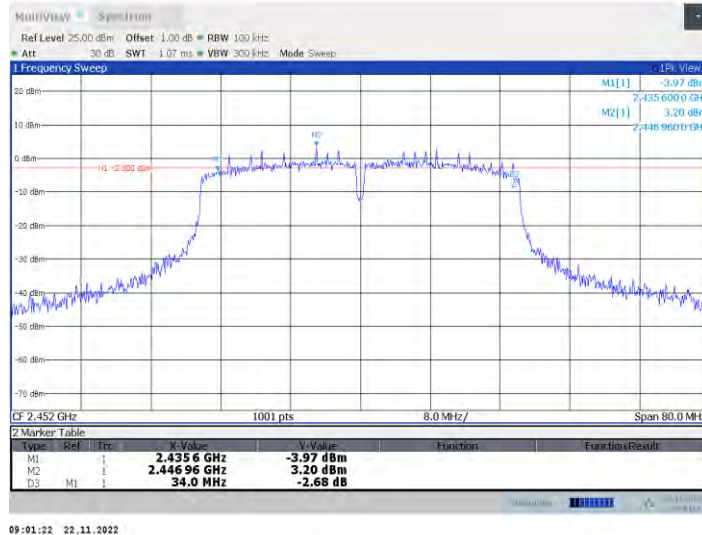
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11n40SISO_Ant1_2452



09:01:22 22.11.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	13.078	2405.431	2418.508	Reporting only
		2437	13.094	2430.419	2443.513	
		2462	13.101	2455.408	2468.509	
11g	Ant1	2412	16.435	2403.746	2420.181	
		2437	16.431	2428.757	2445.188	
		2462	16.467	2453.732	2470.199	
11n20SISO	Ant1	2412	17.541	2403.192	2420.733	
		2437	17.514	2428.188	2445.702	
		2462	17.541	2453.182	2470.723	
11n40SISO	Ant1	2422	35.999	2404.015	2440.015	
		2427	36.031	2409.001	2445.032	
		2437	35.999	2419.007	2455.007	
		2447	35.992	2429.002	2464.994	
		2452	36	2433.974	2469.974	



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Test Graphs

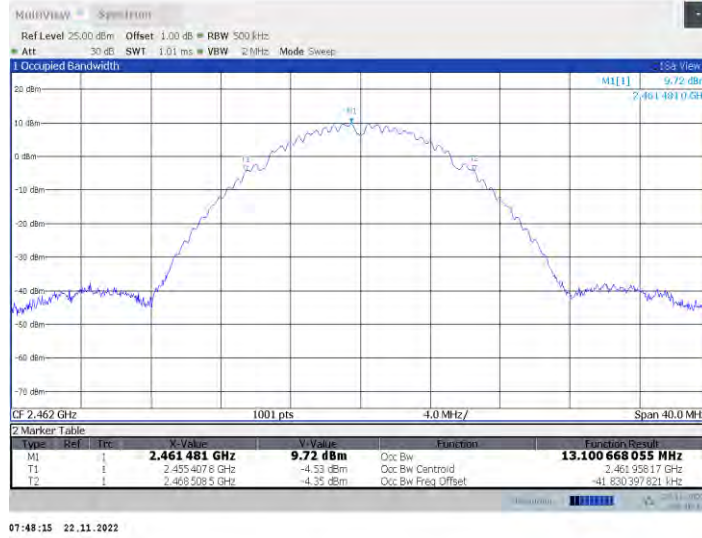


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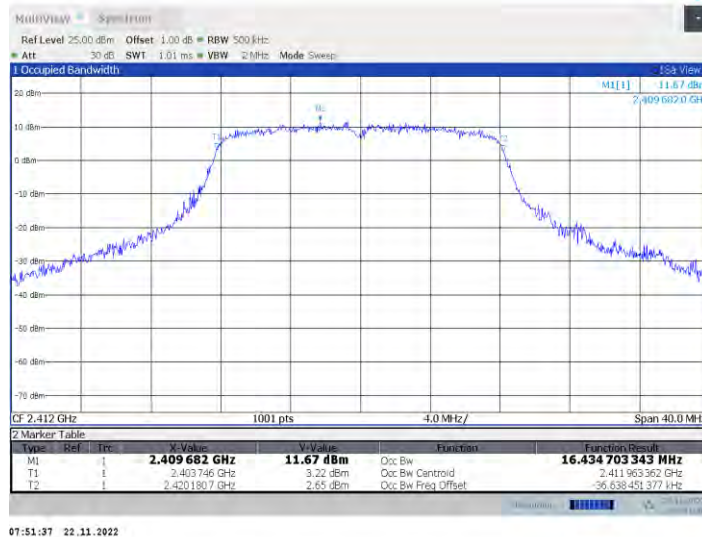
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11b Ant1 2462



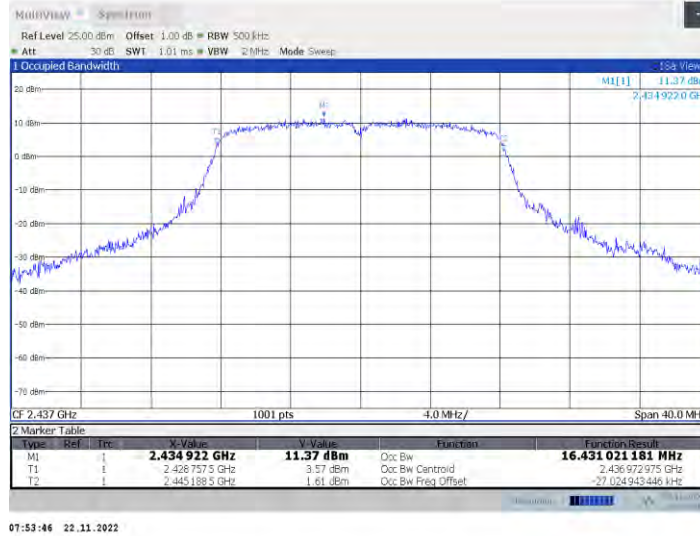
11g Ant1 2412



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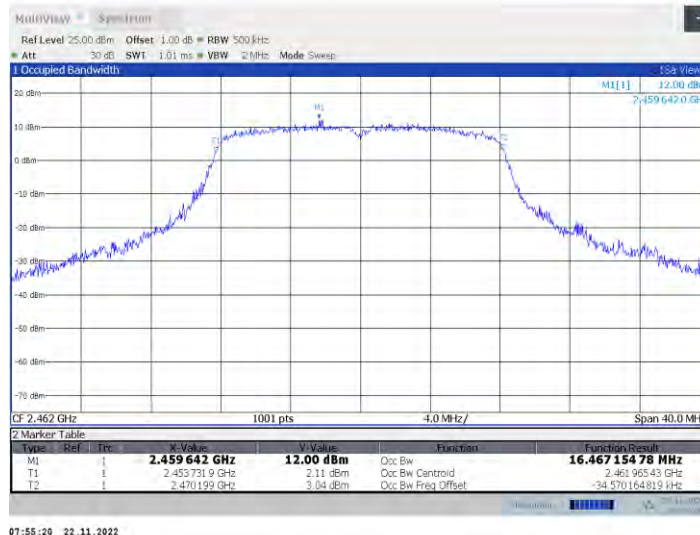
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11g Ant1 2437



07:53:46 22.11.2022

11g Ant1 2462



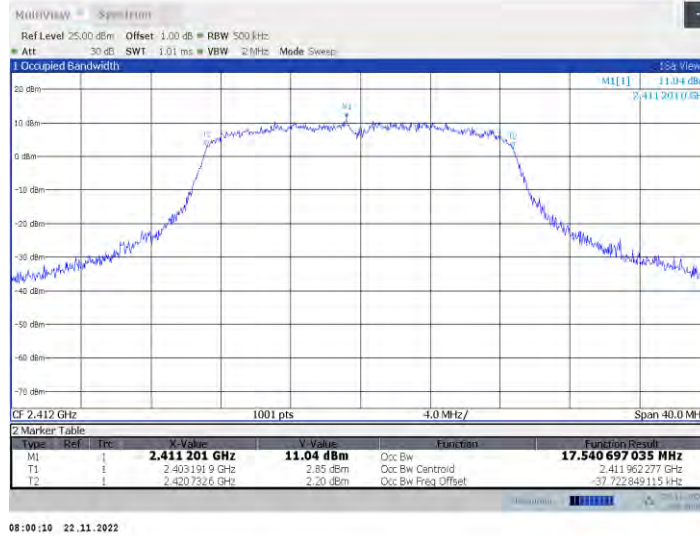
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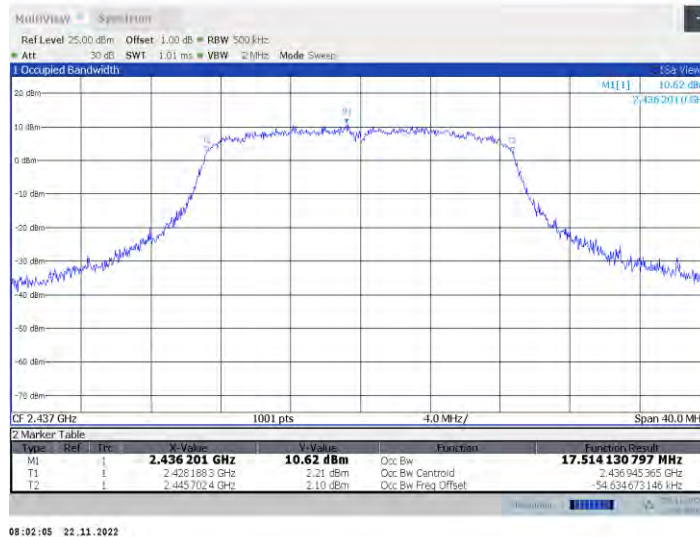
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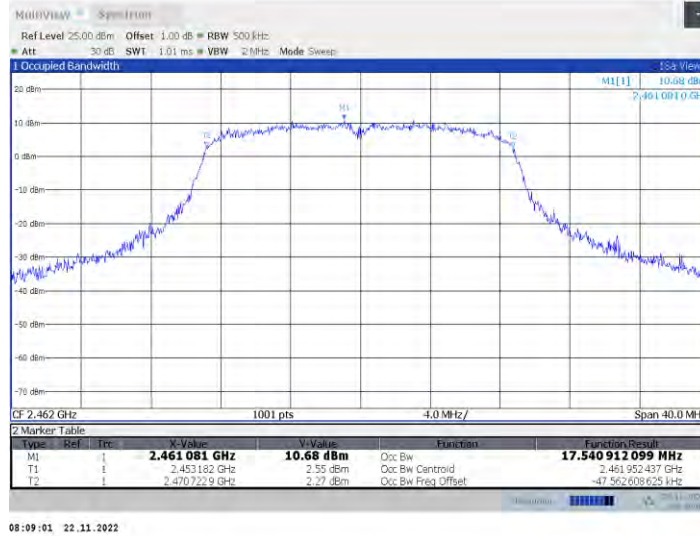


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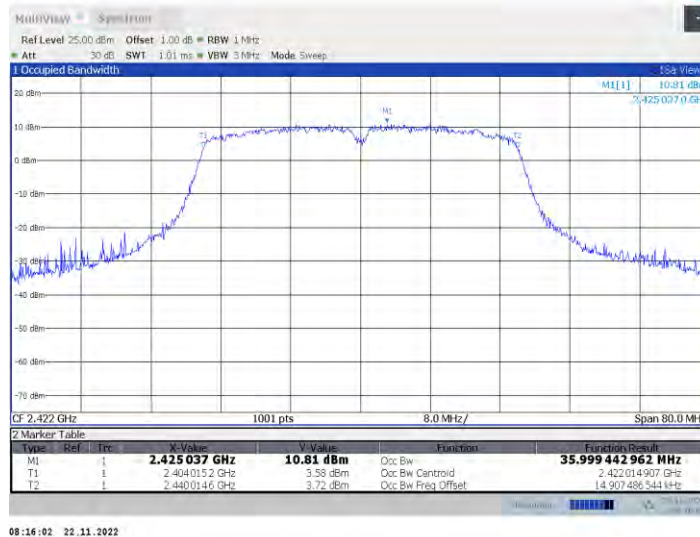
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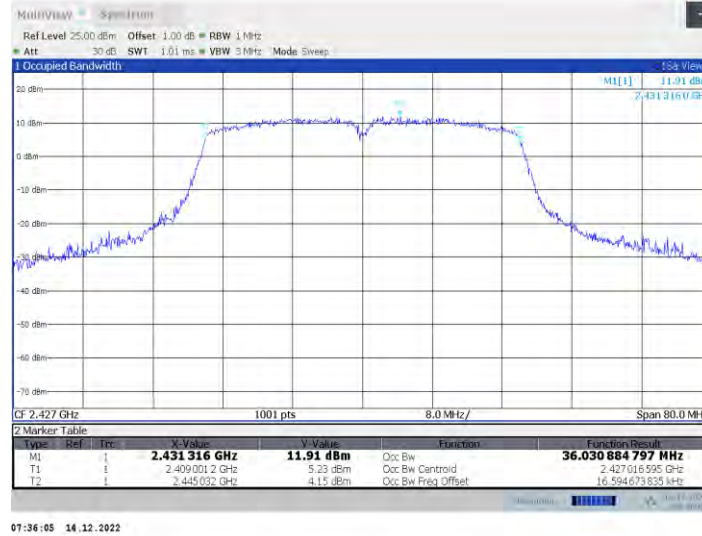
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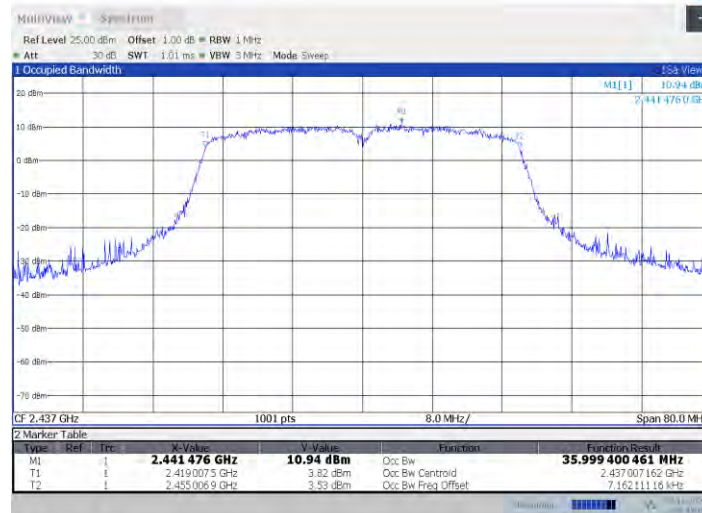
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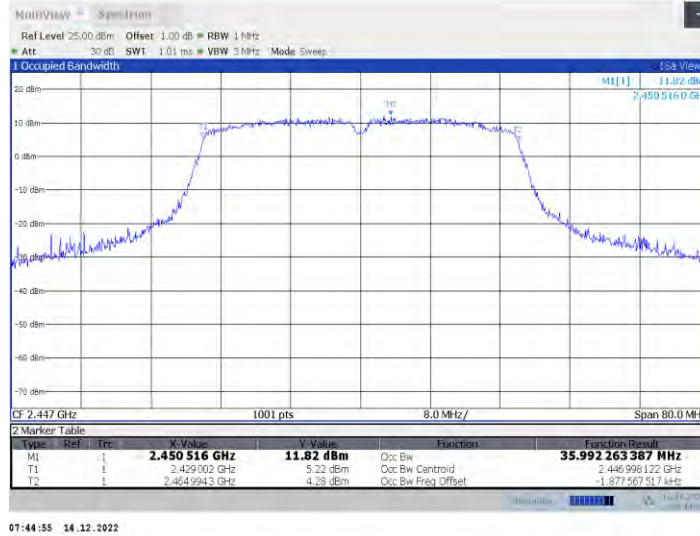
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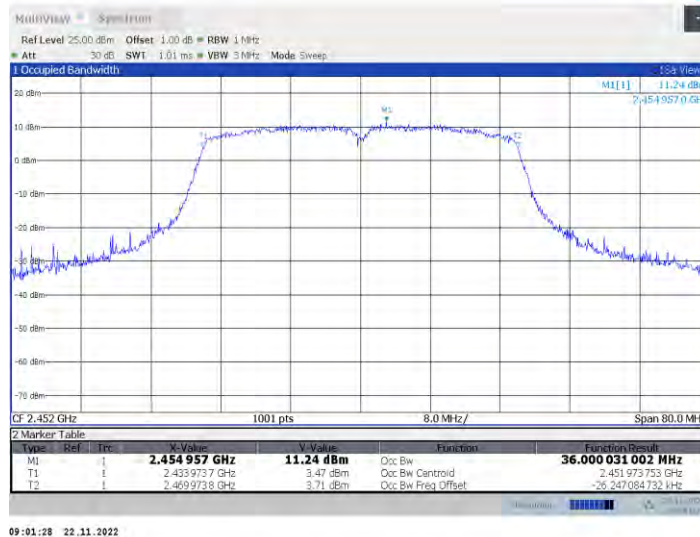
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Report No.: SEWA2210000062RG03

Rev.: 01

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	20.85	≤30.00	PASS
		2437	20.70	≤30.00	PASS
		2462	20.75	≤30.00	PASS
11g	Ant1	2412	23.50	≤30.00	PASS
		2437	23.57	≤30.00	PASS
		2462	23.46	≤30.00	PASS
11n20SISO	Ant1	2412	23.89	≤30.00	PASS
		2437	23.76	≤30.00	PASS
		2462	23.91	≤30.00	PASS
11n40SISO	Ant1	2422	21.39	≤30.00	PASS
		2427	22.87	≤30.00	PASS
		2437	22.83	≤30.00	PASS
		2447	22.71	≤30.00	PASS
		2452	22.36	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-9.2	≤8.00	PASS
		2437	-8.27	≤8.00	PASS
		2462	-9.53	≤8.00	PASS
11g	Ant1	2412	-9.94	≤8.00	PASS
		2437	-9.24	≤8.00	PASS
		2462	-9.41	≤8.00	PASS
11n20SISO	Ant1	2412	-10.16	≤8.00	PASS
		2437	-8.75	≤8.00	PASS
		2462	-10.48	≤8.00	PASS
11n40SISO	Ant1	2422	-13.42	≤8.00	PASS
		2427	-11.92	≤8.00	PASS
		2437	-13.48	≤8.00	PASS
		2447	-12.01	≤8.00	PASS
		2452	-12.34	≤8.00	PASS

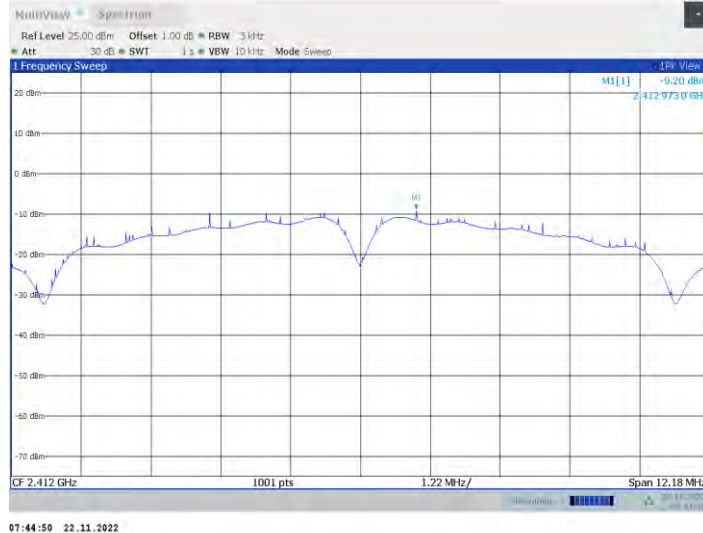


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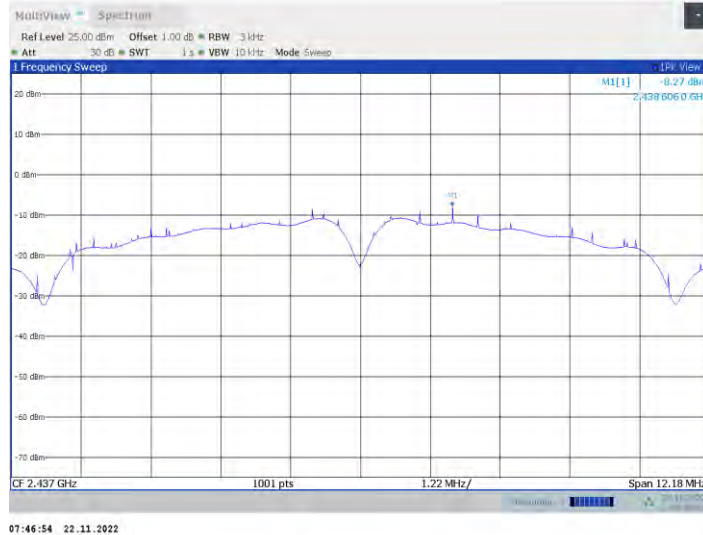
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Test Graphs

11b Ant1 2412



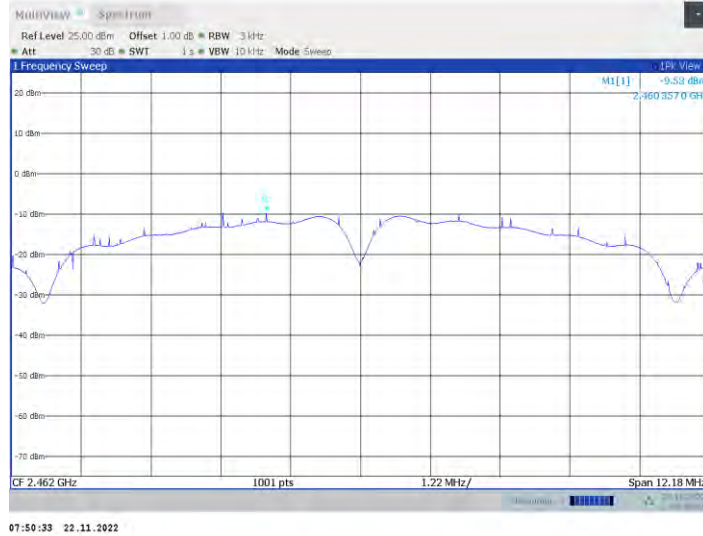
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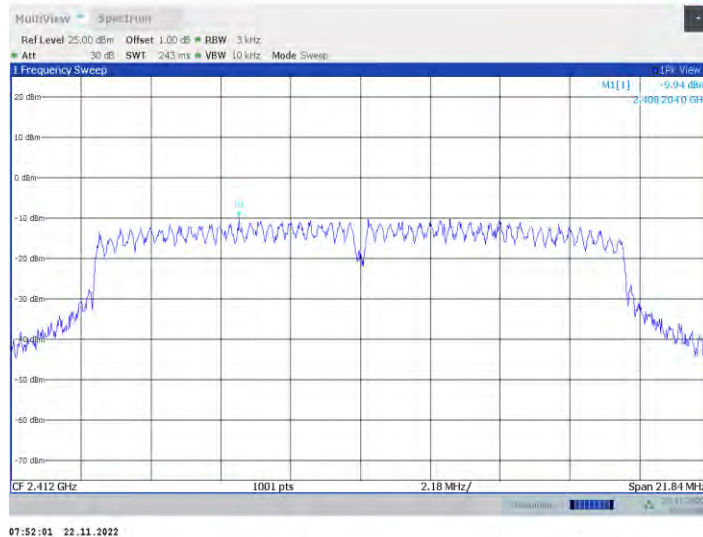
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11b Ant1 2462



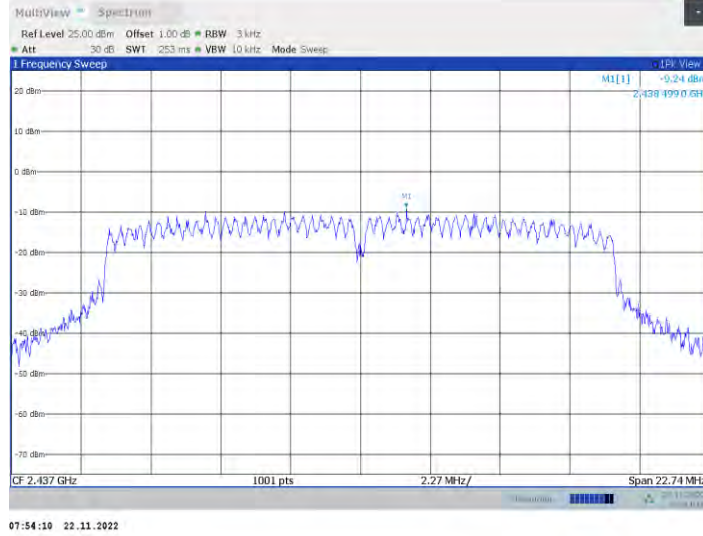
11g Ant1 2412



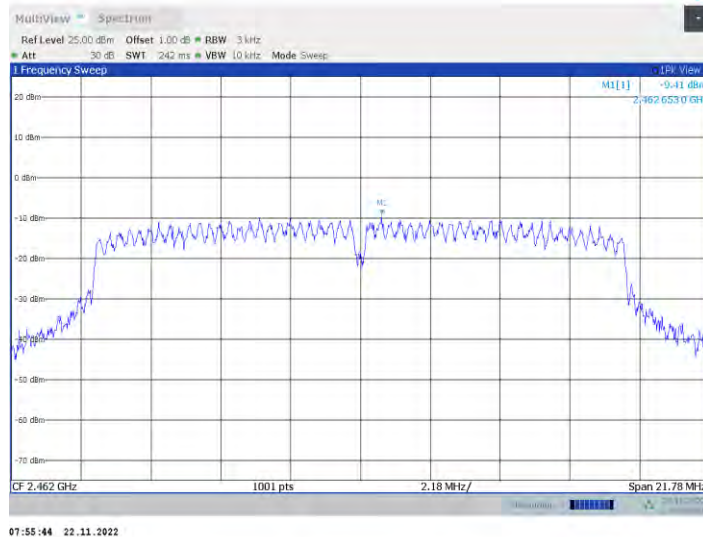
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11g Ant1 2437



11g Ant1 2462

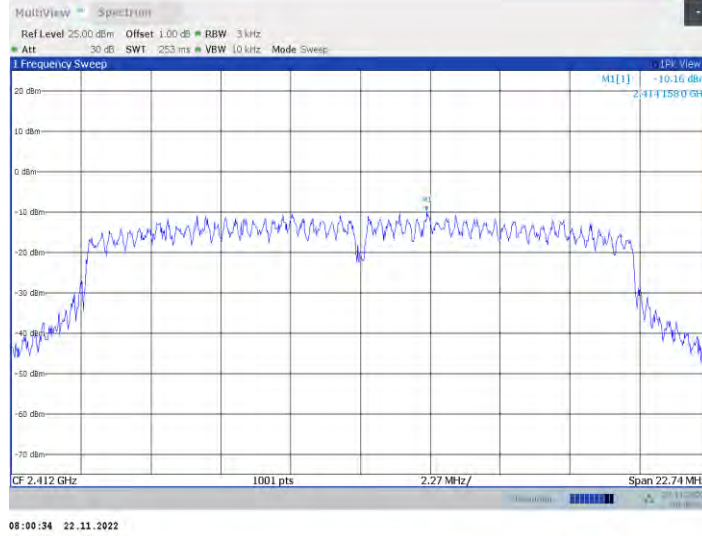


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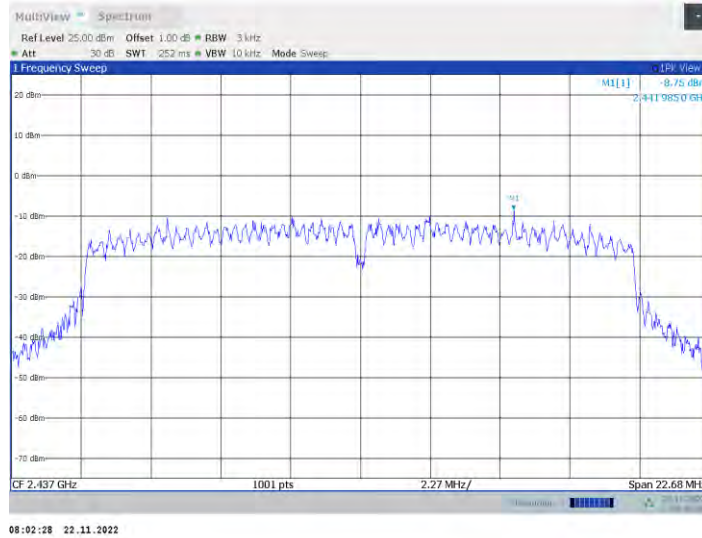
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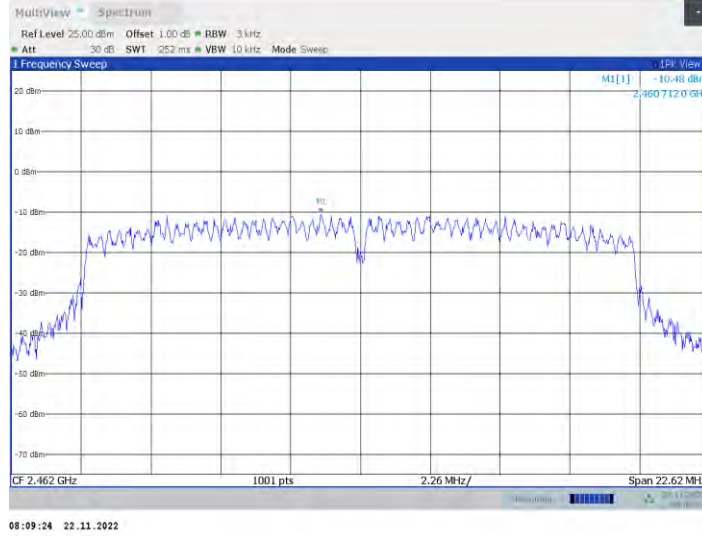
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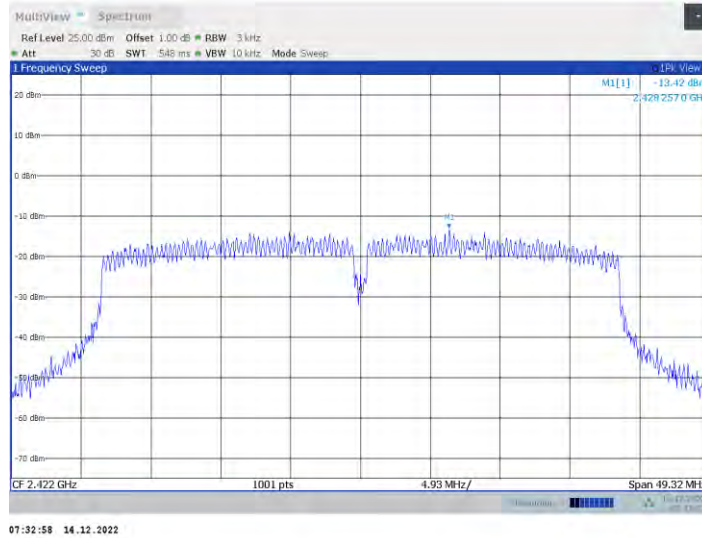
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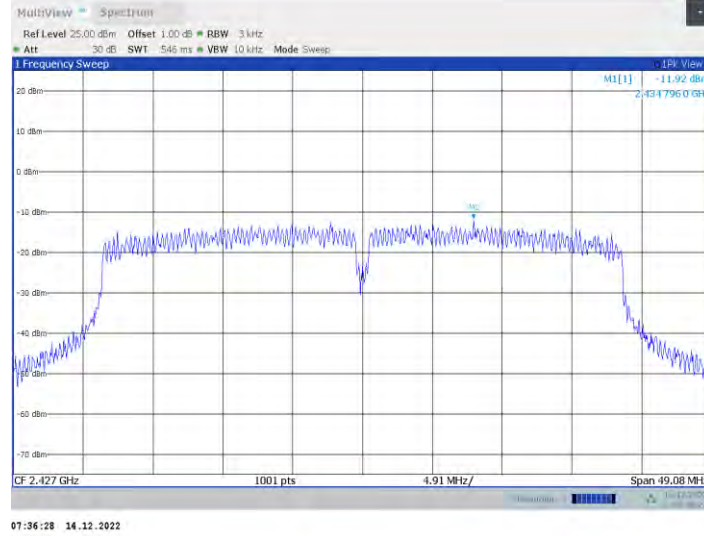
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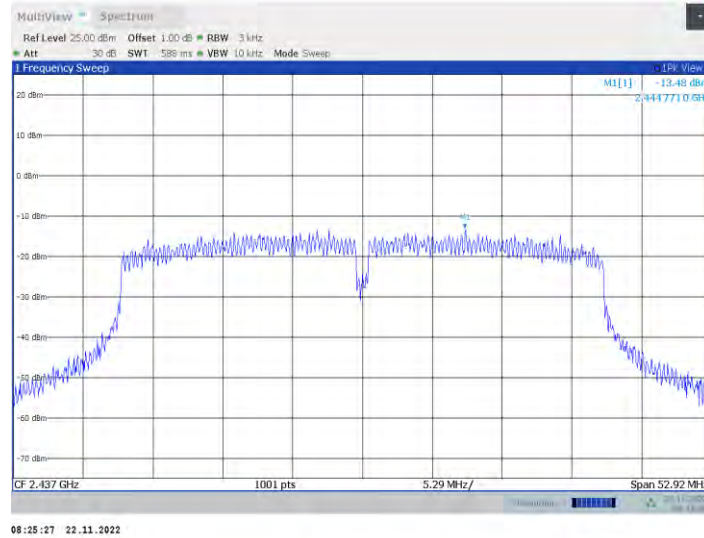
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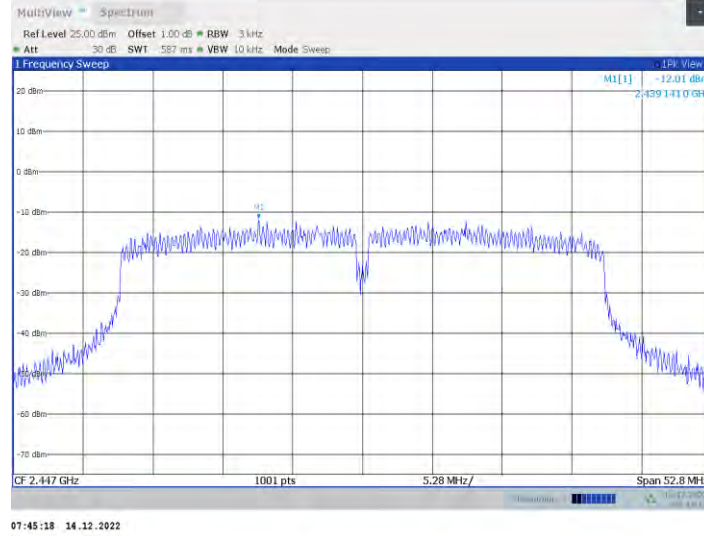
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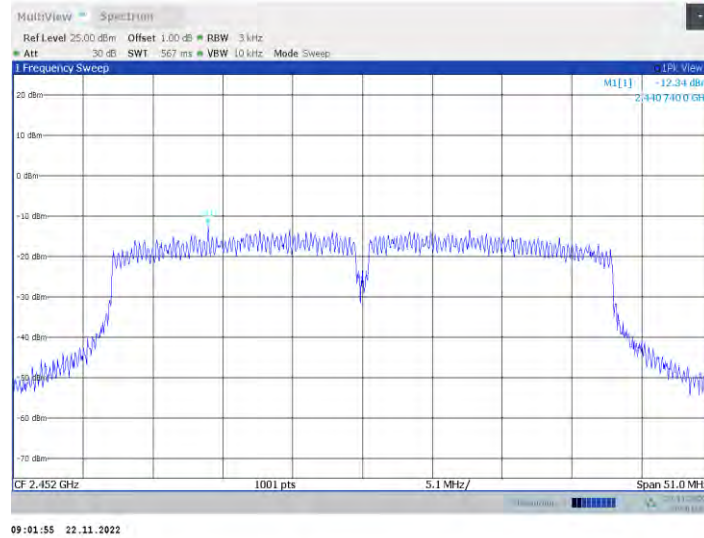
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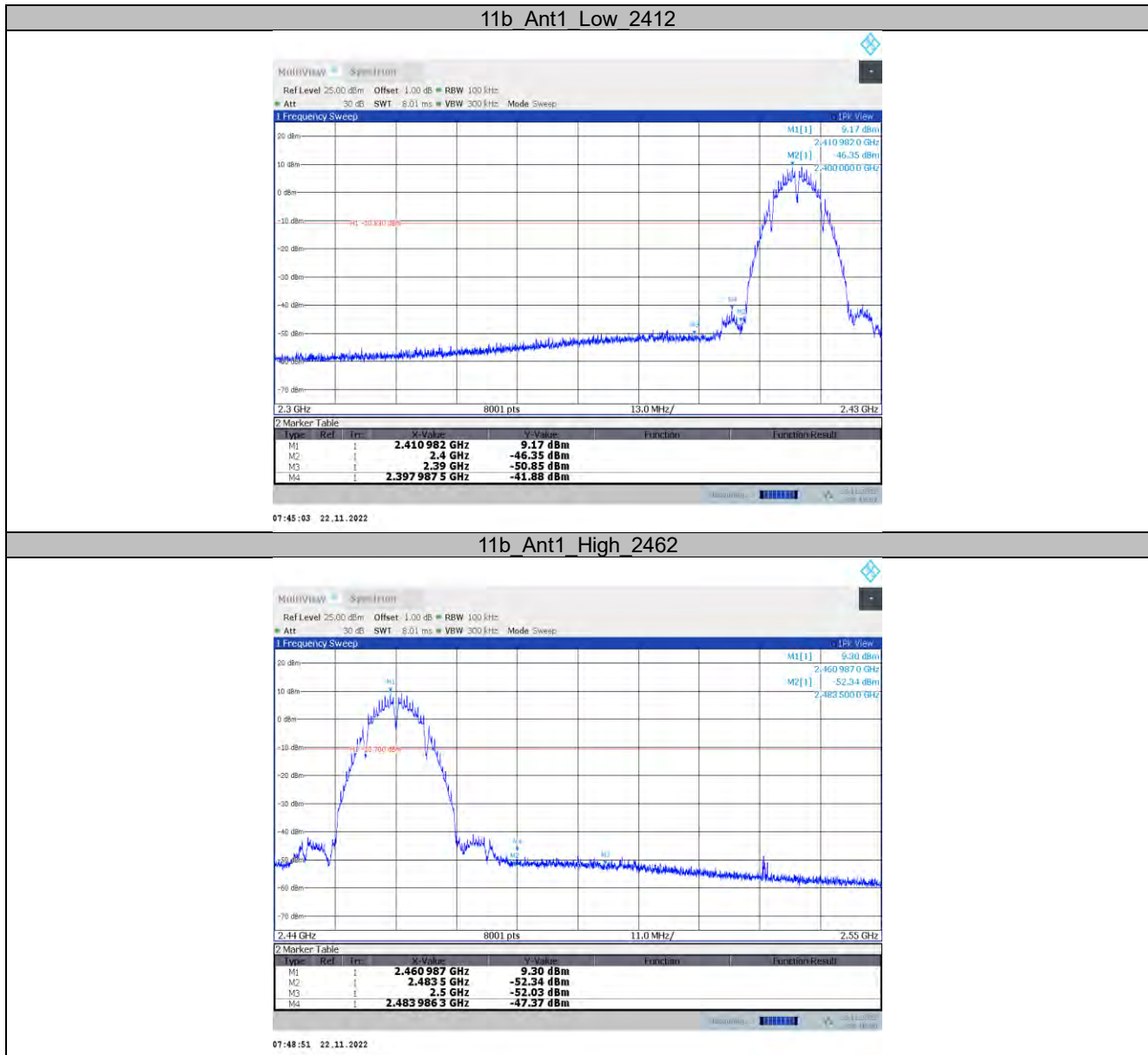
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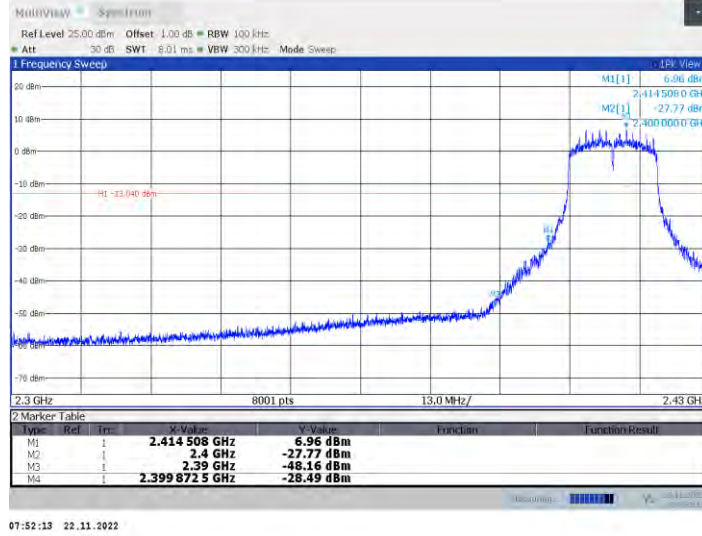
Band edge measurements Test Graphs



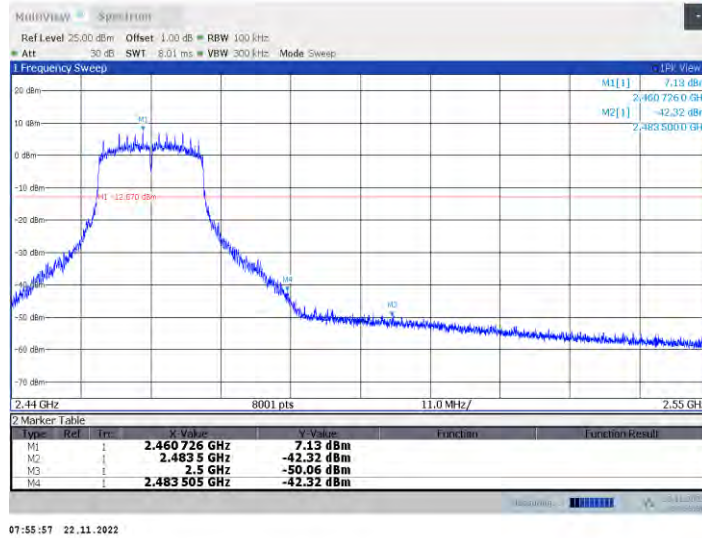
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11g Ant1 Low 2412



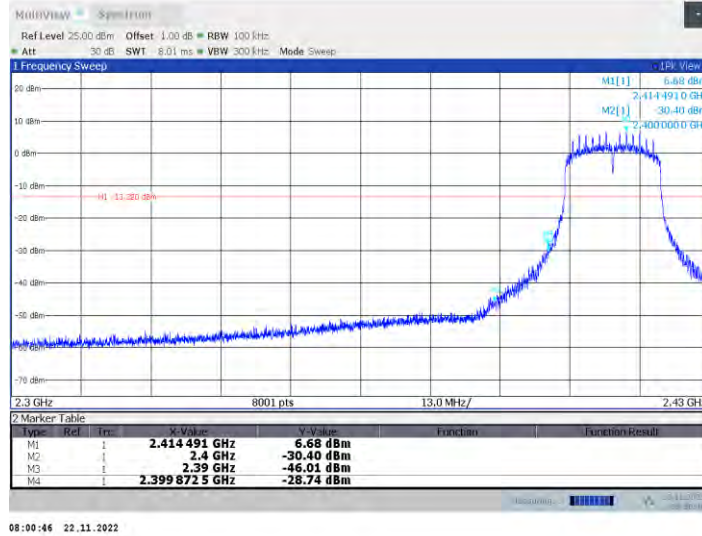
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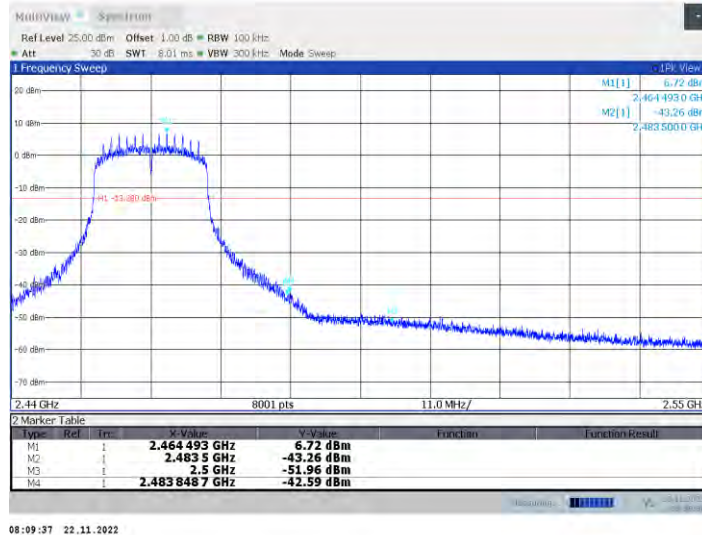
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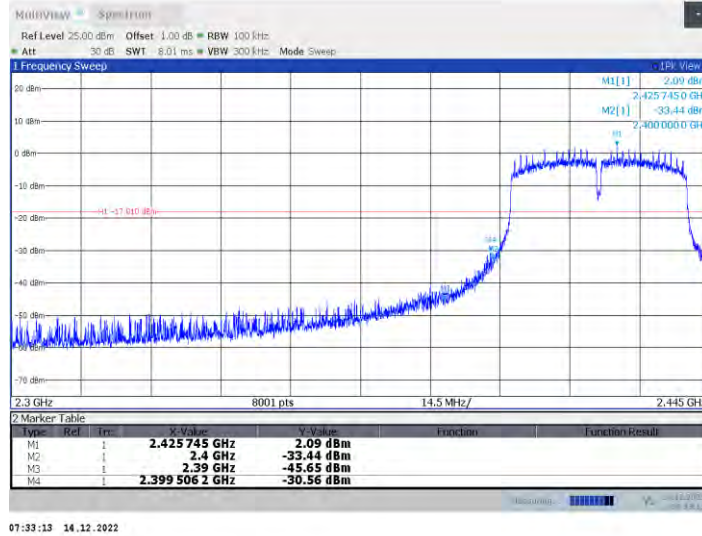


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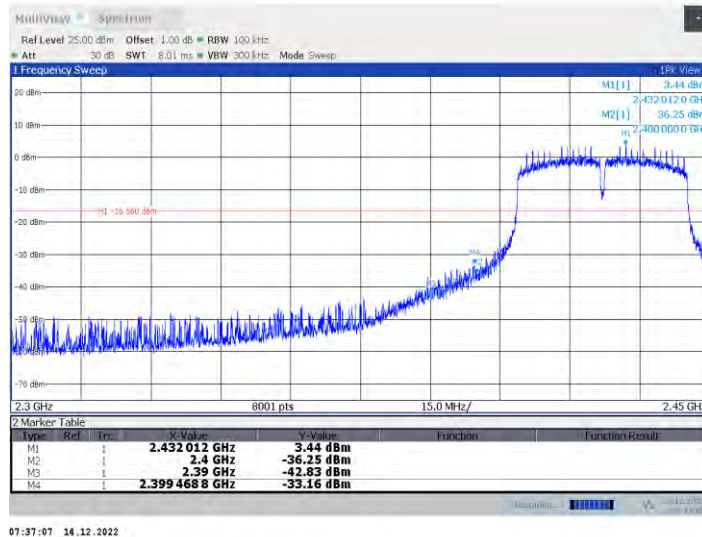
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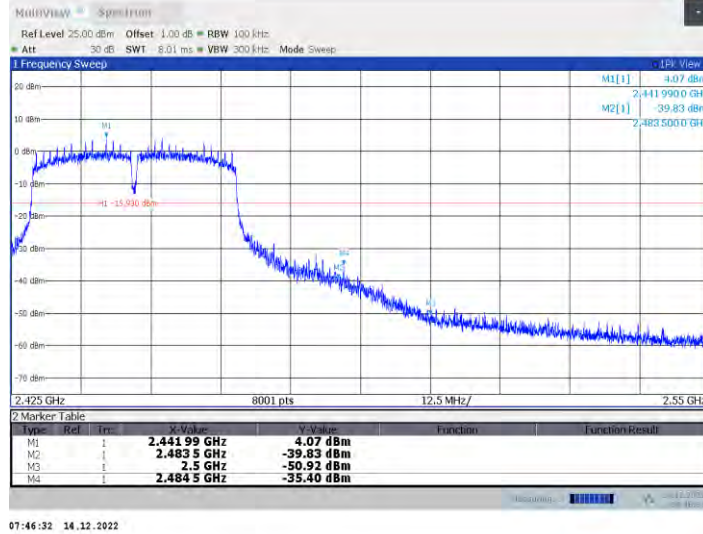


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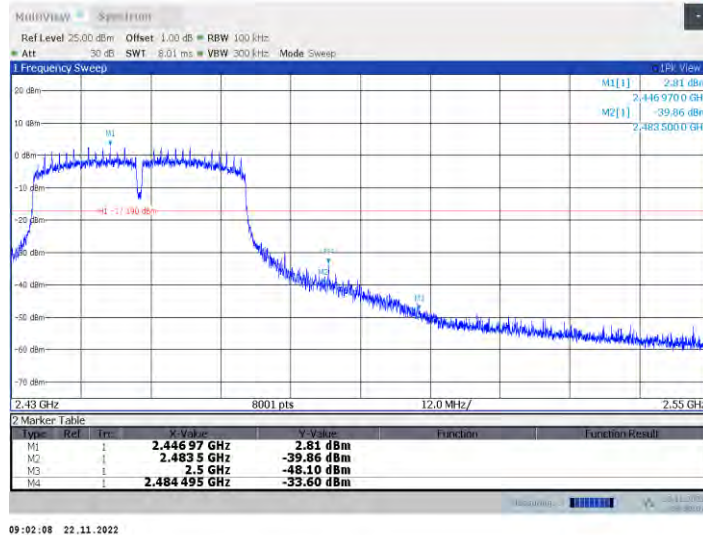
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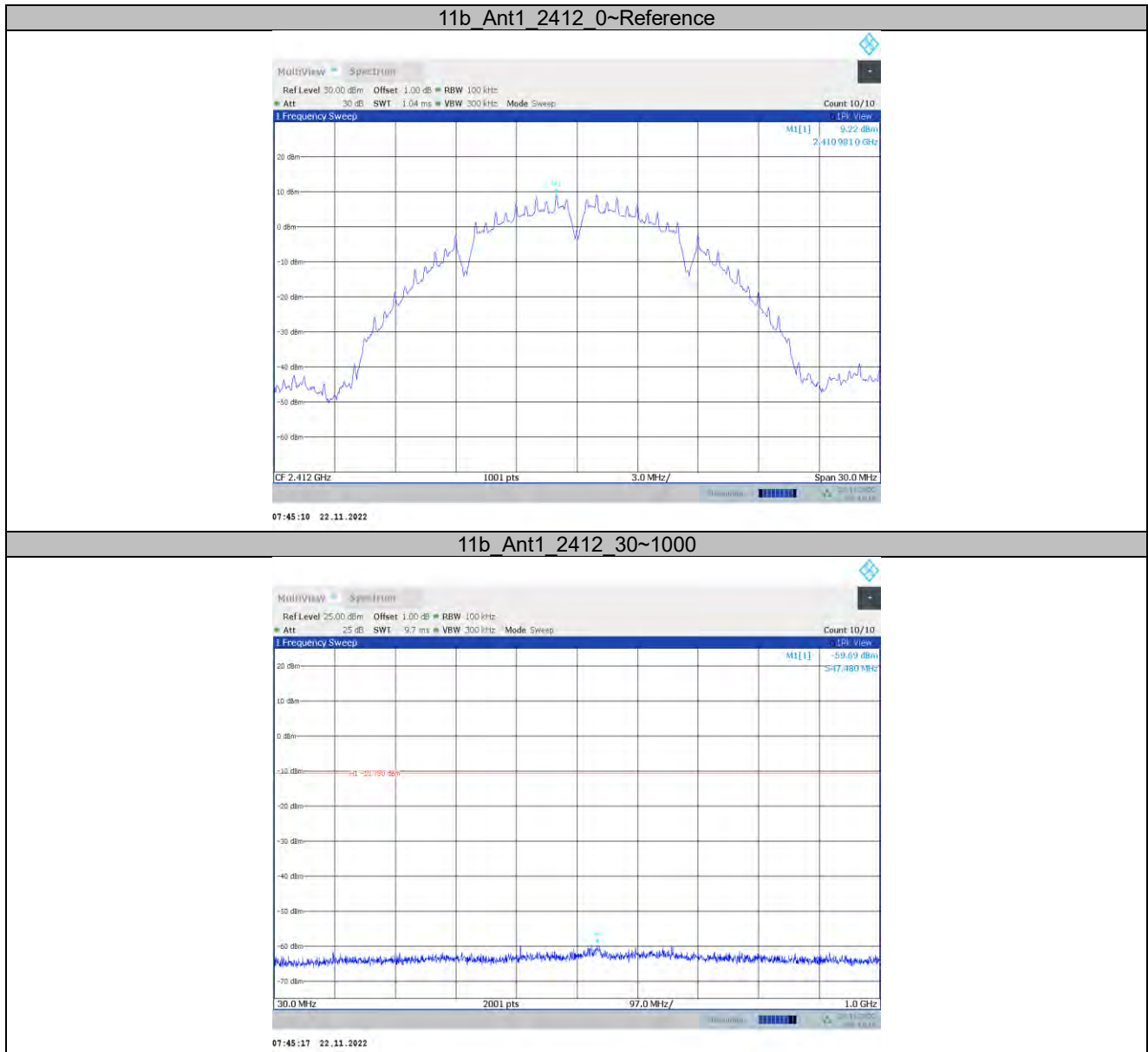


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Conducted Spurious Emission Test Graphs

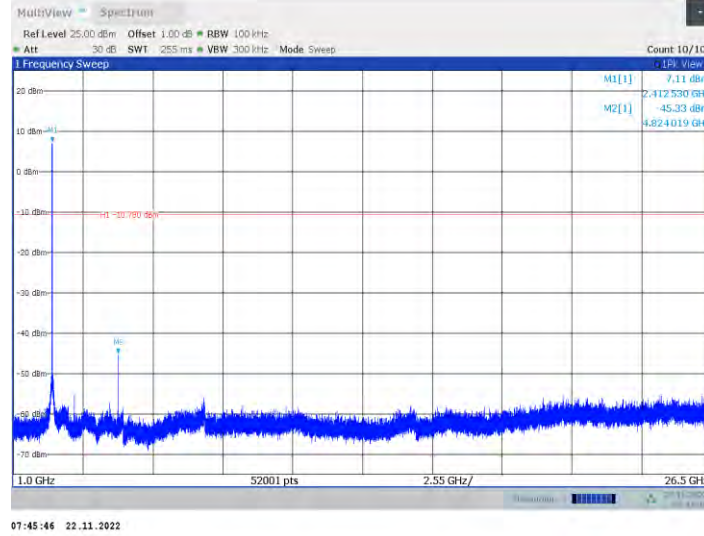


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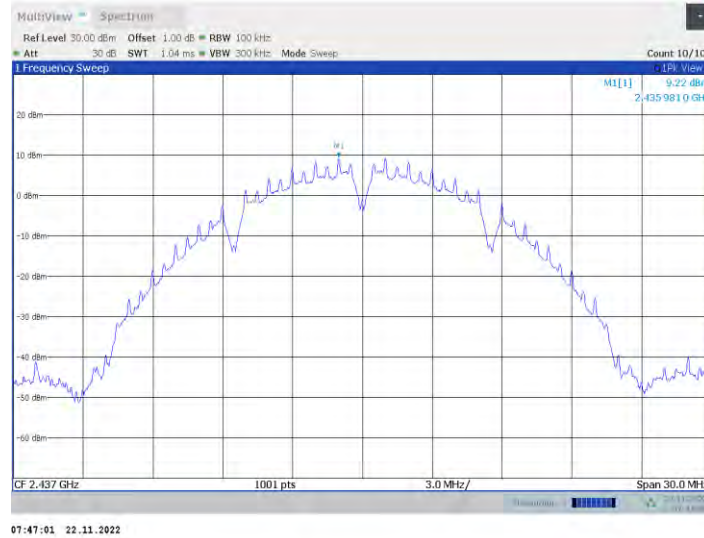
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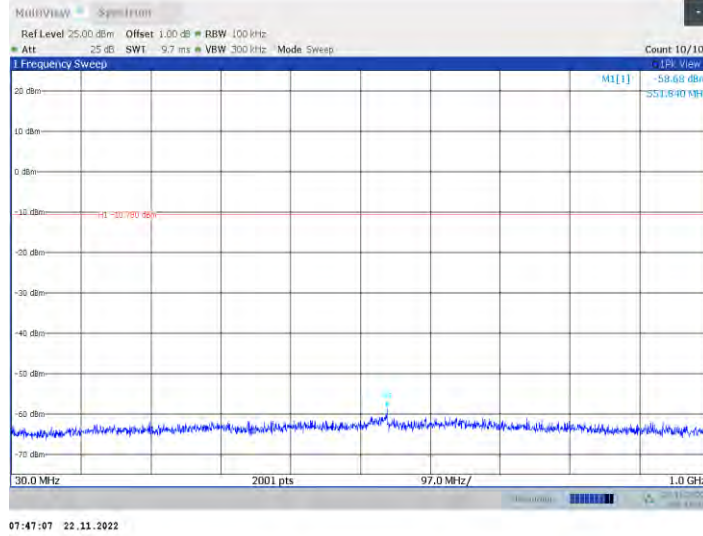
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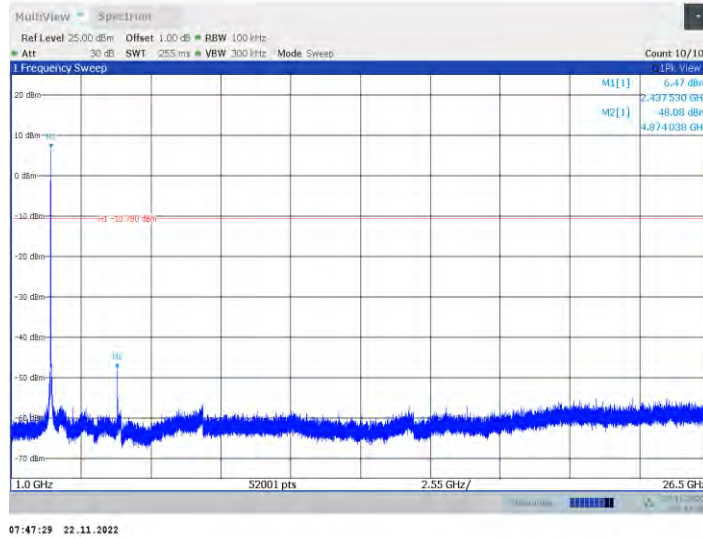
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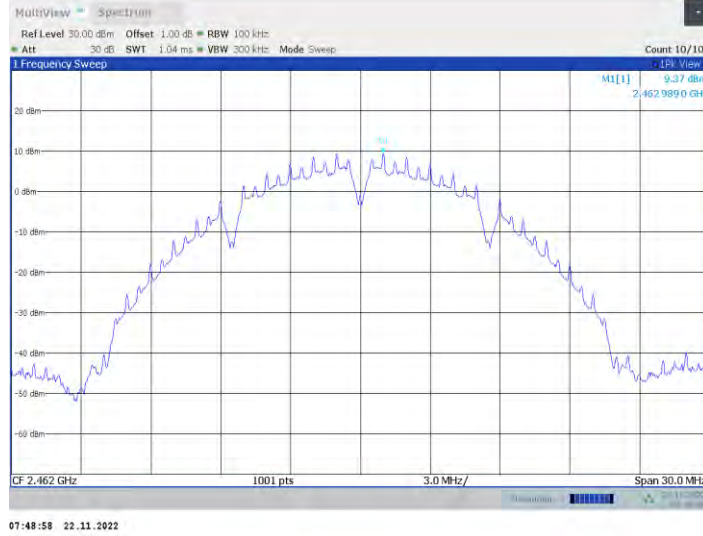
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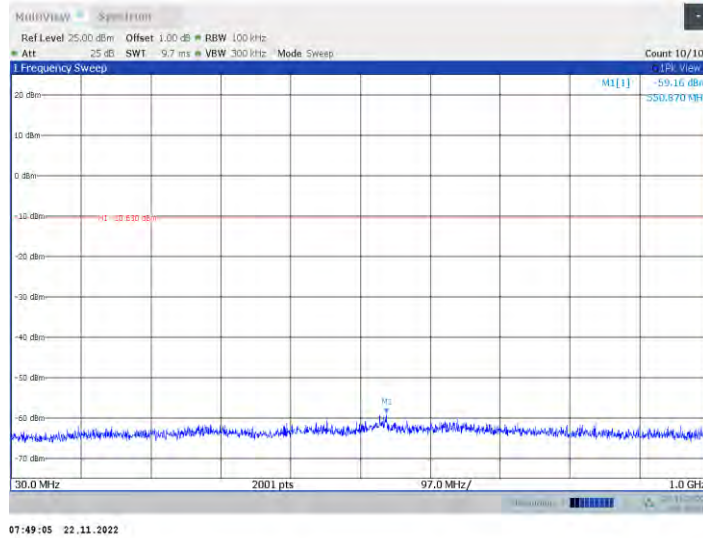
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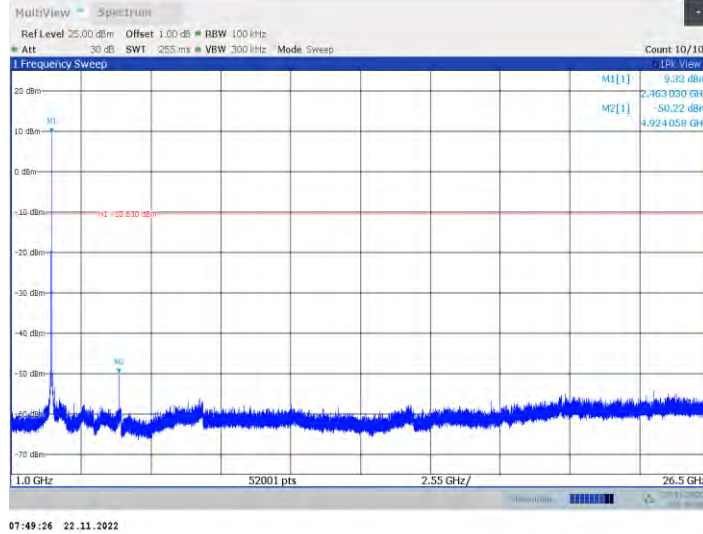
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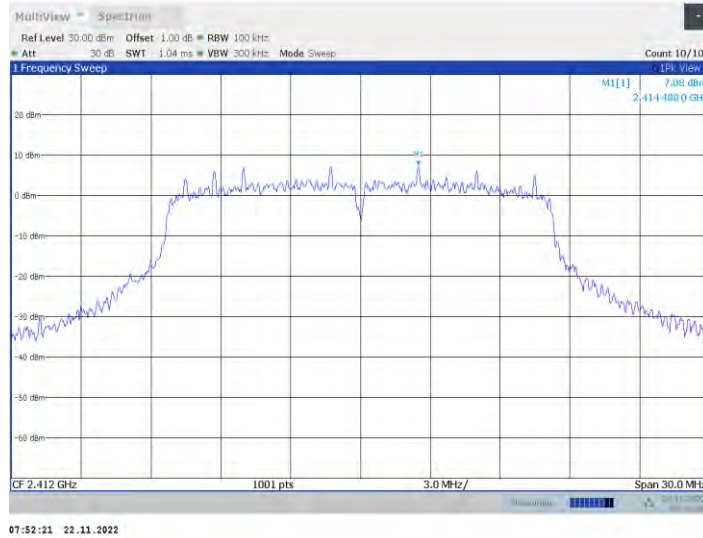
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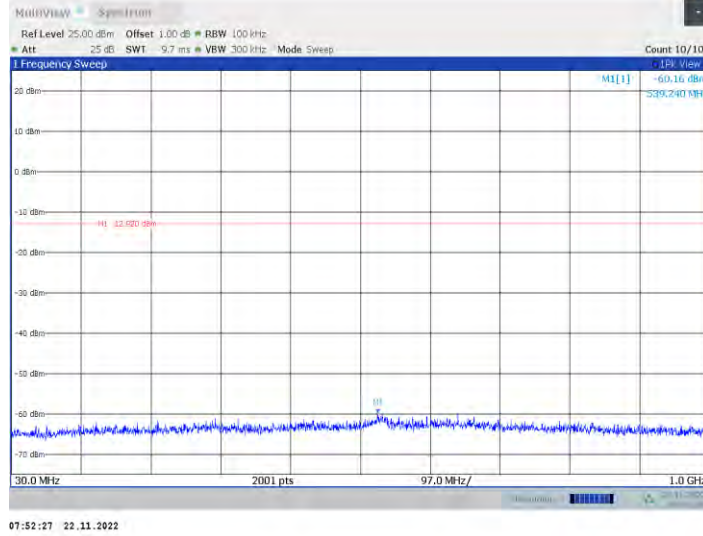
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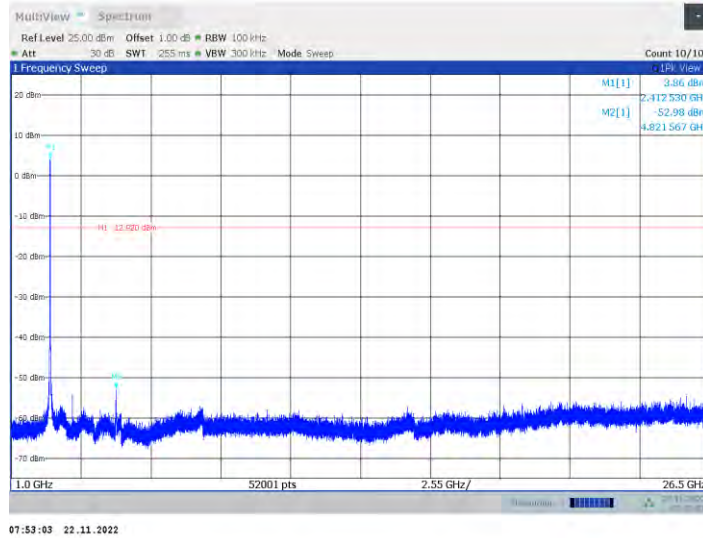
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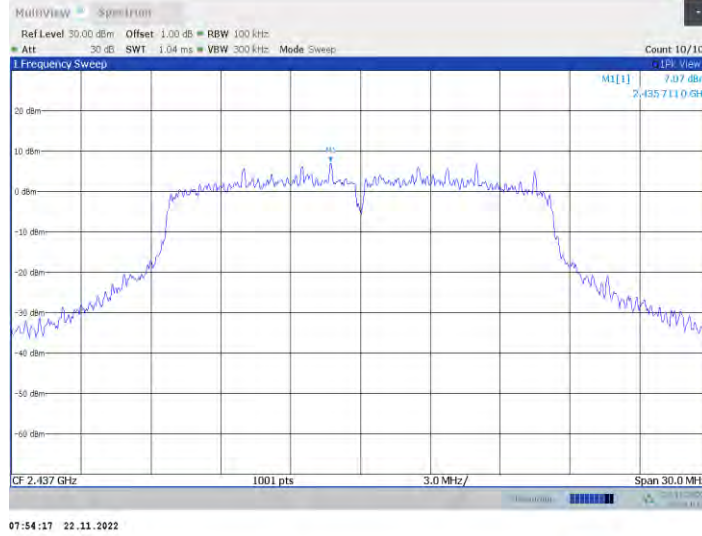


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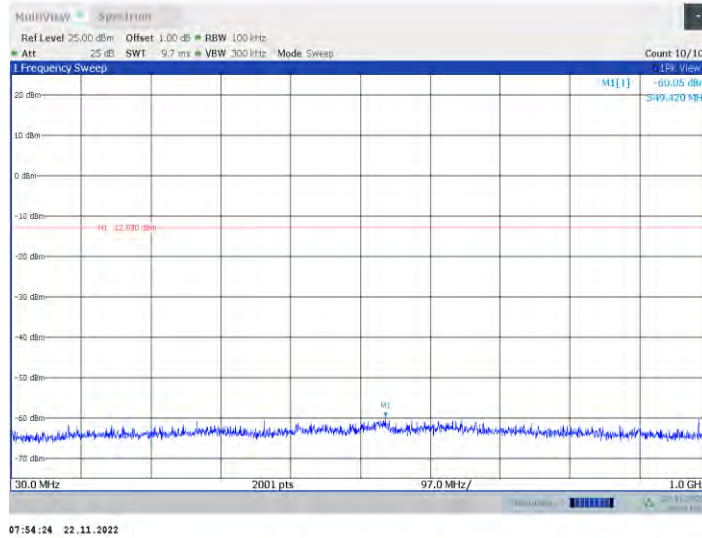
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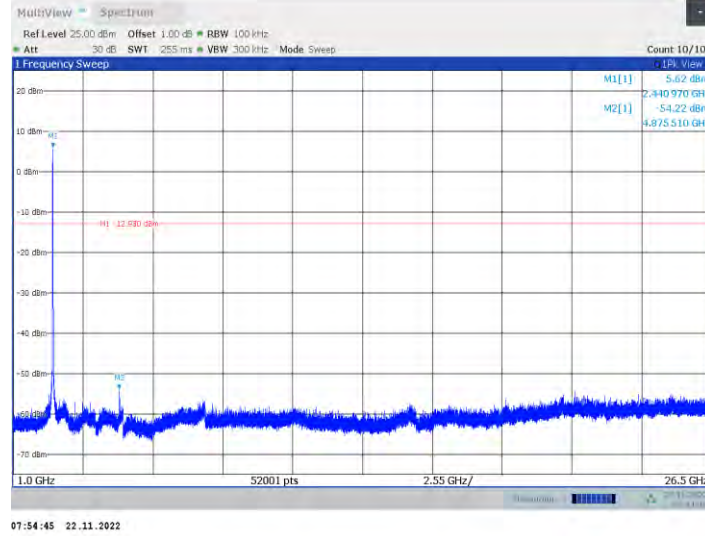
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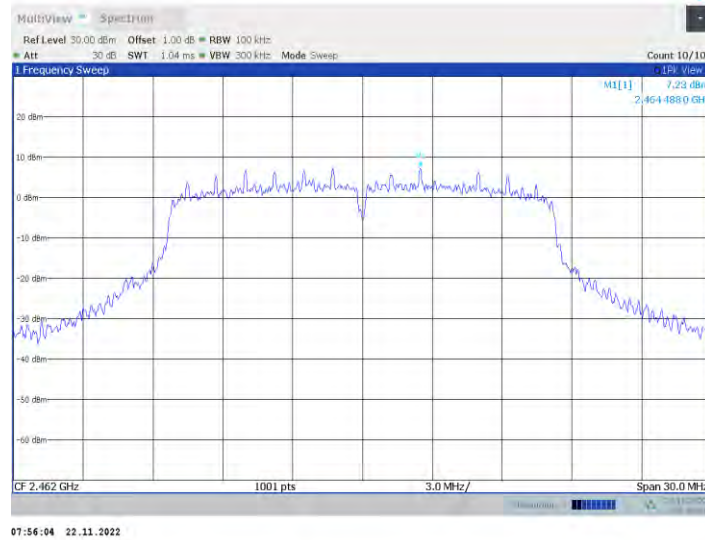
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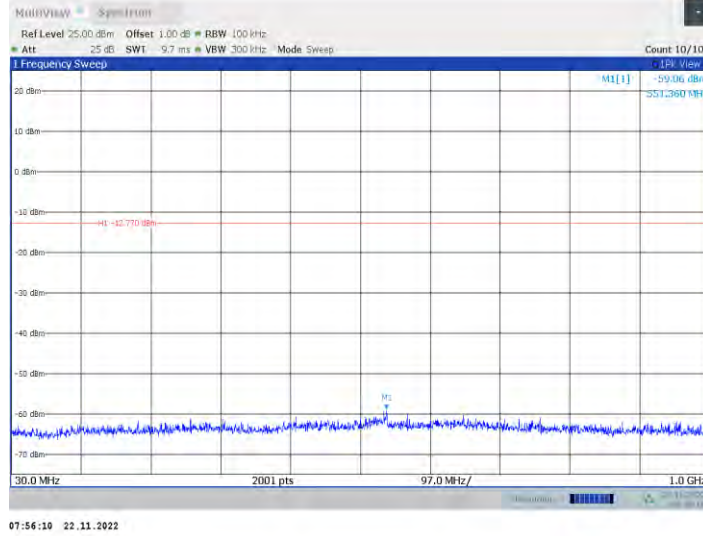


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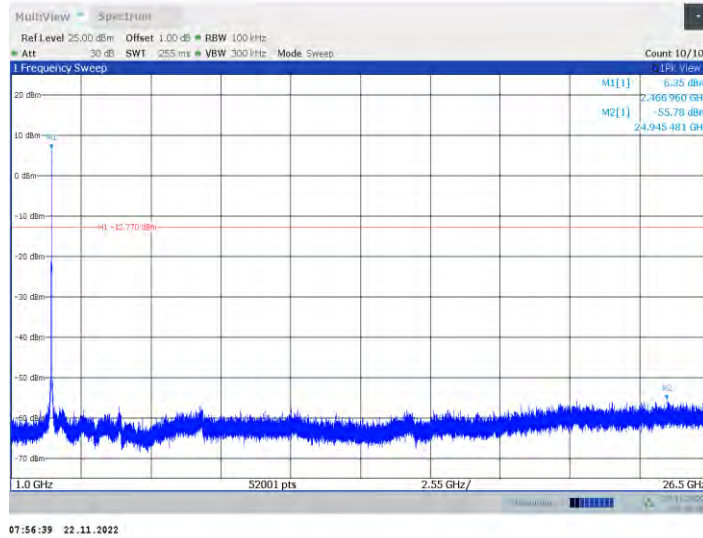
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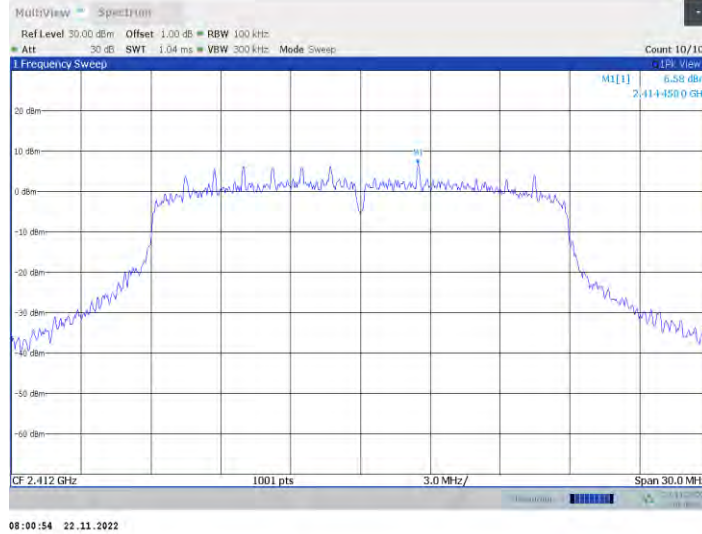
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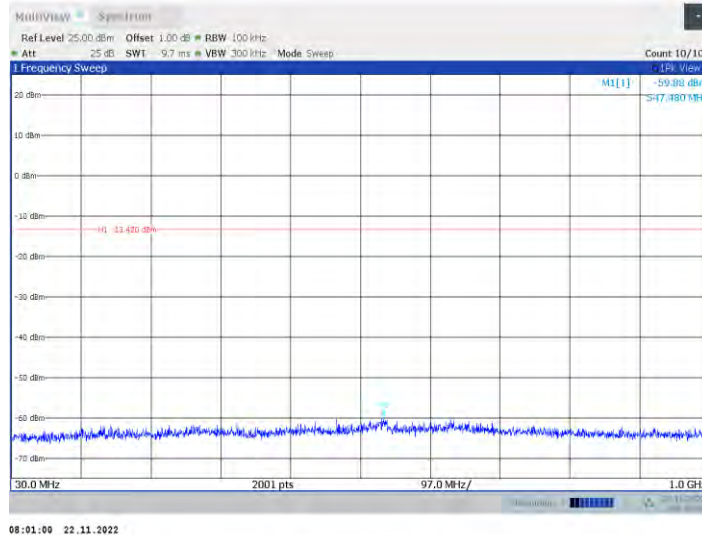
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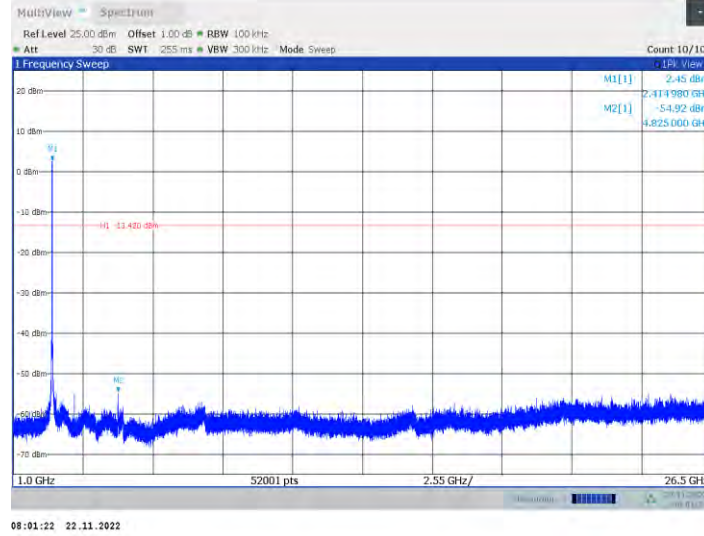
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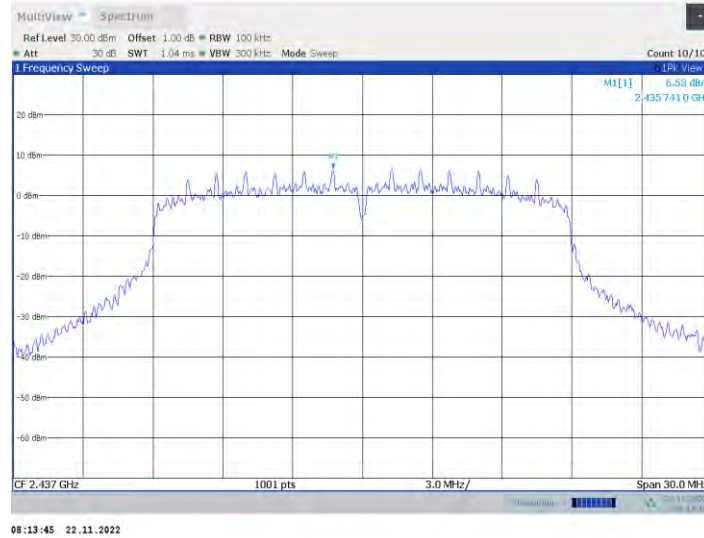
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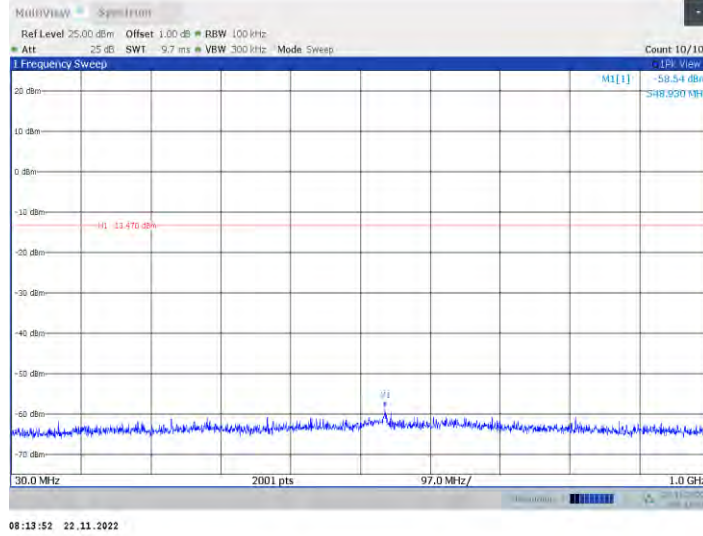
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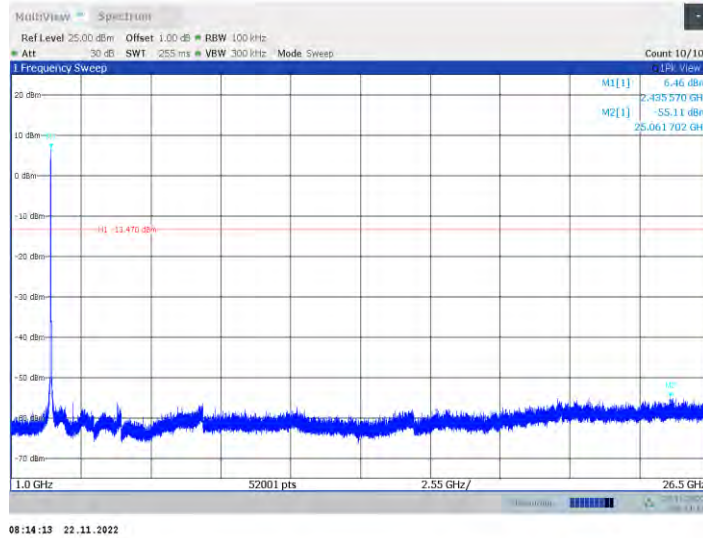
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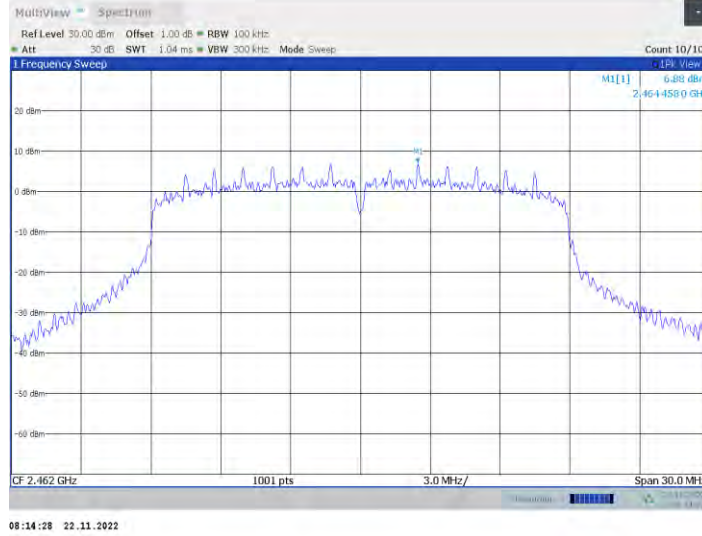
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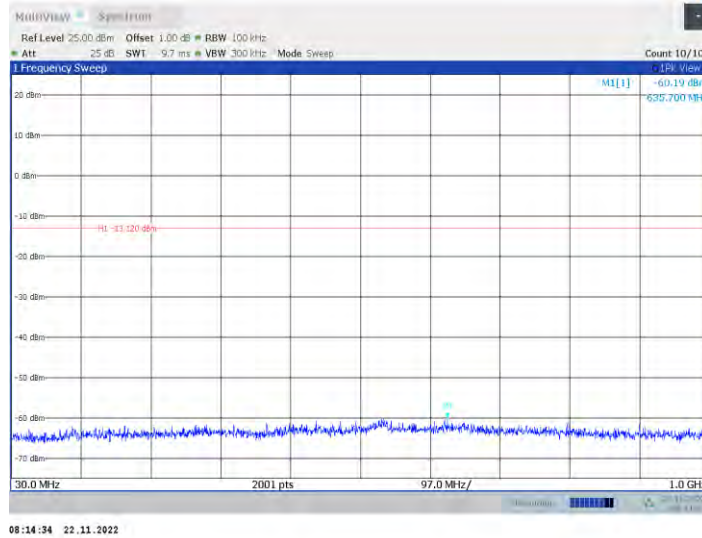
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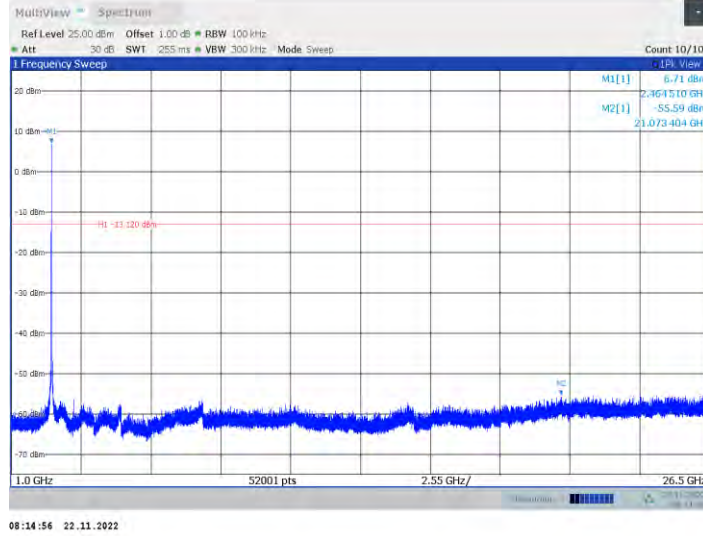
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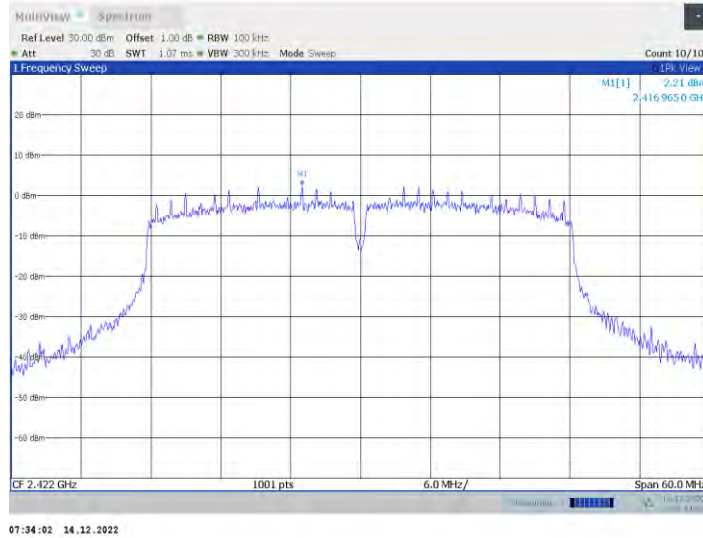
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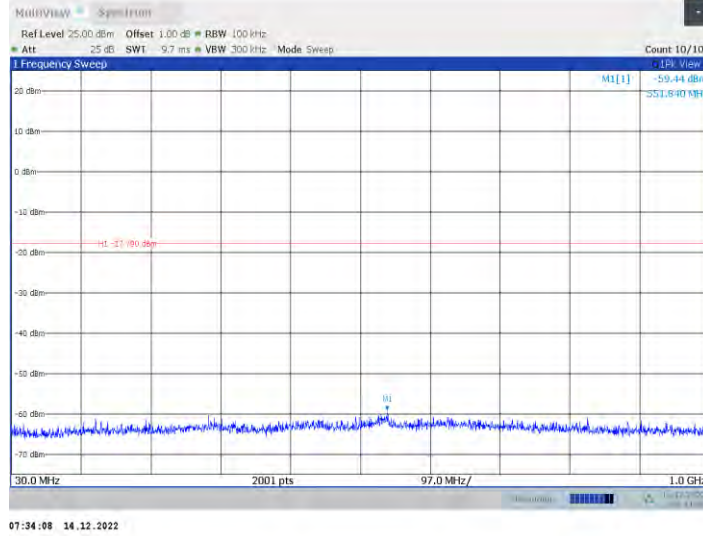
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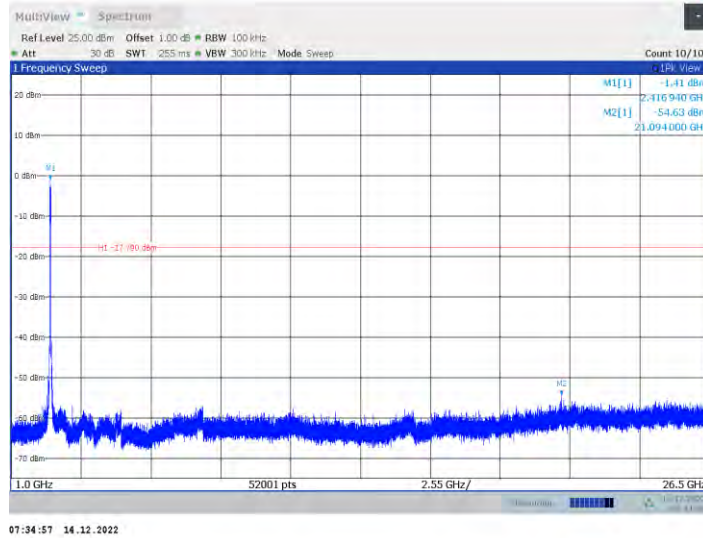
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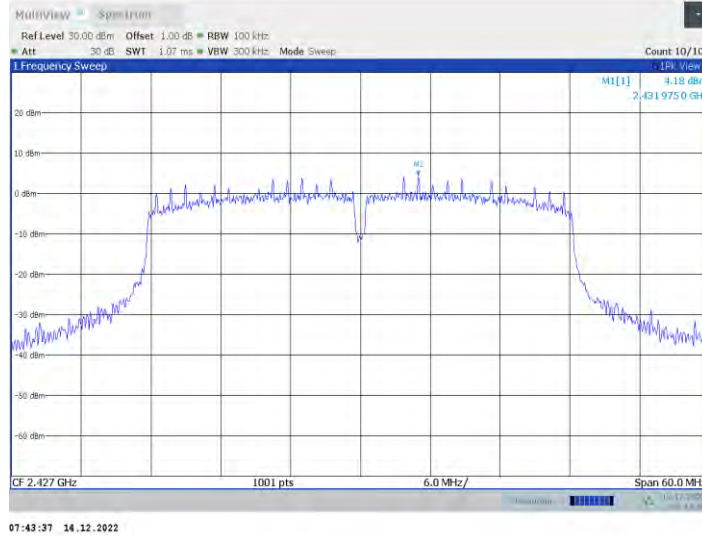
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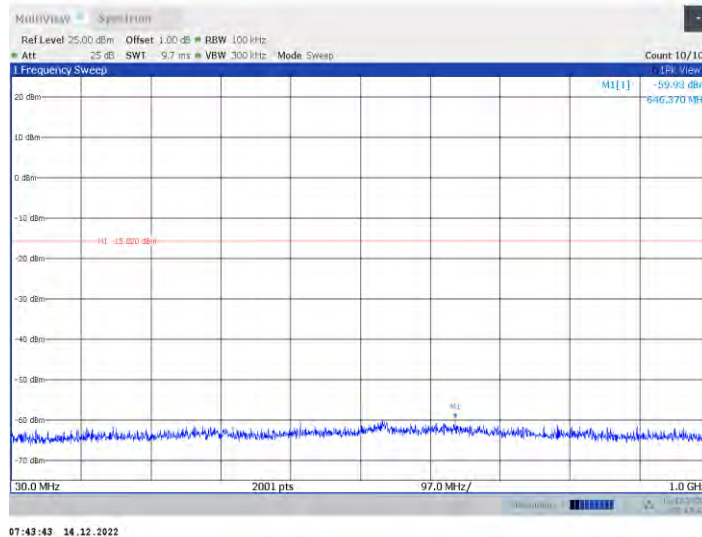
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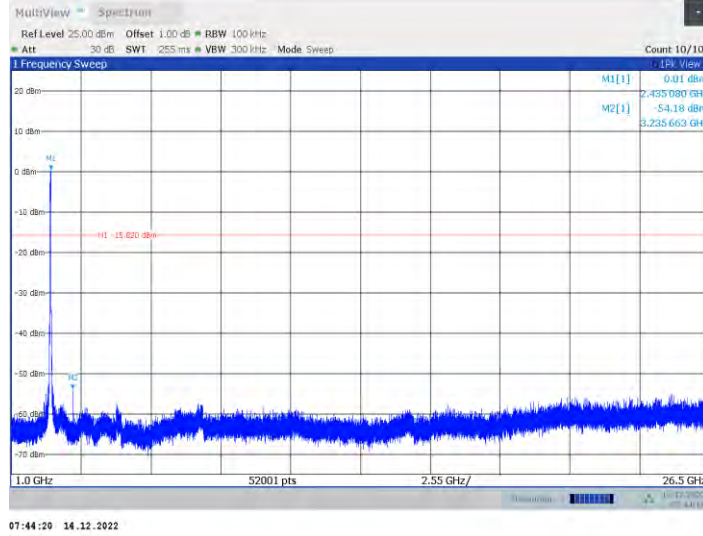
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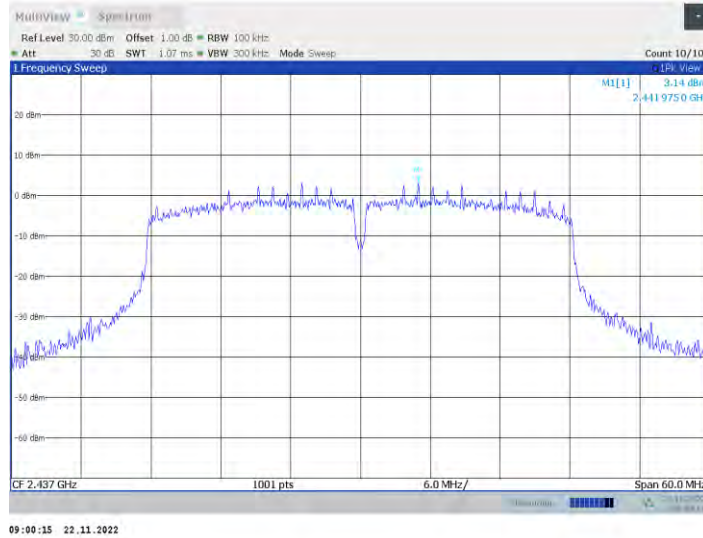
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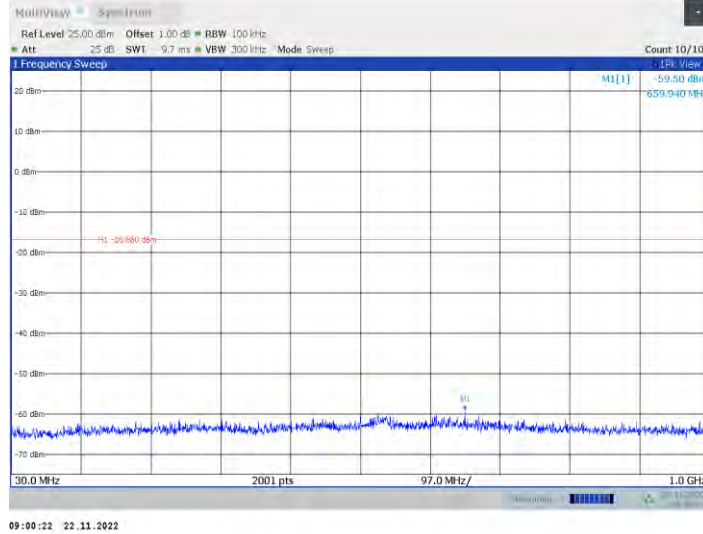
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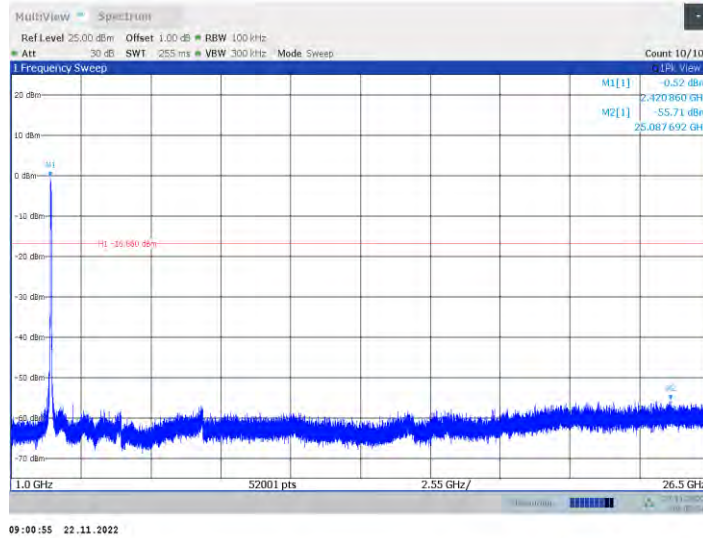
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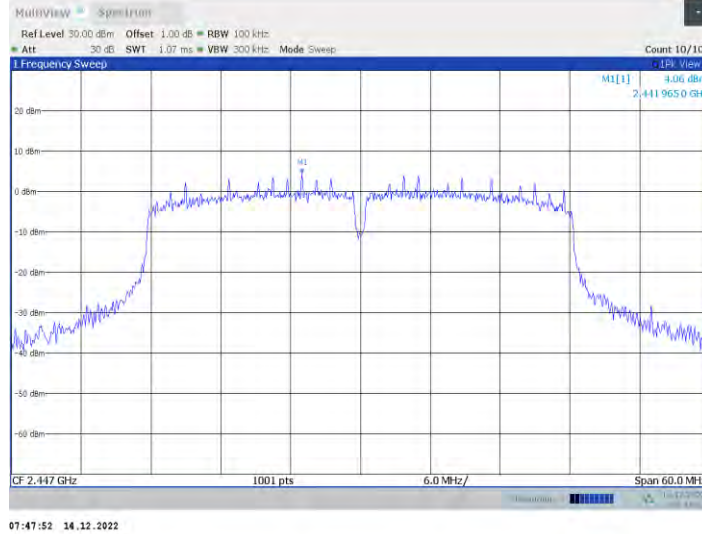
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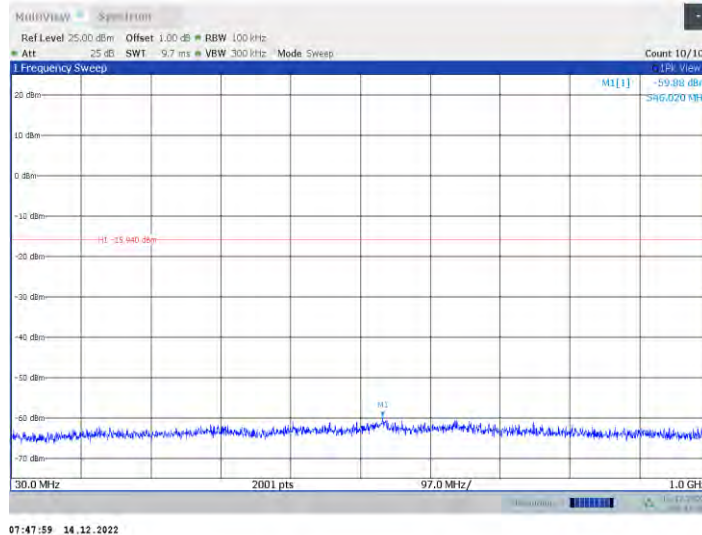
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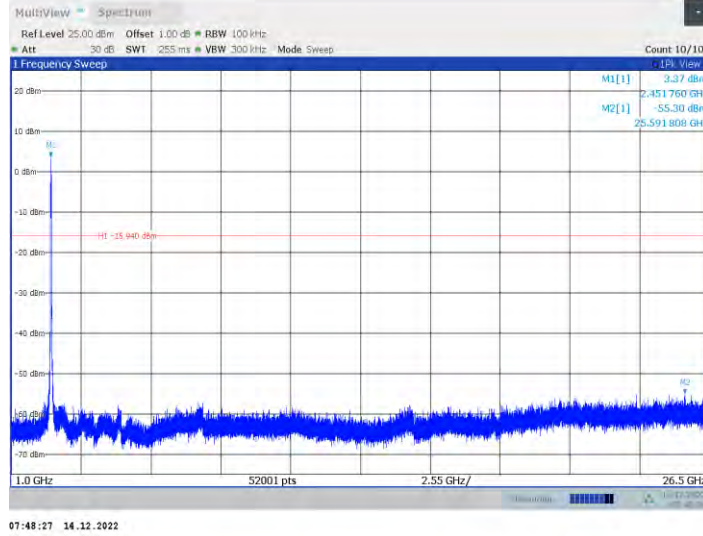


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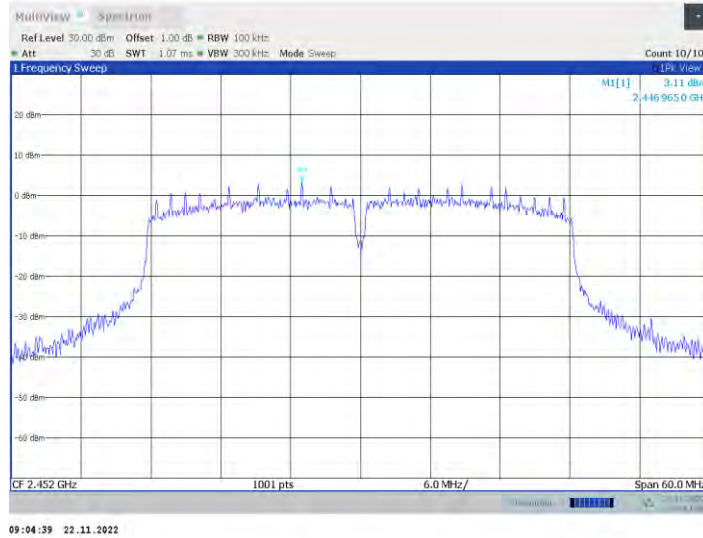
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11n40SISO_Ant1_2447_1000~26500



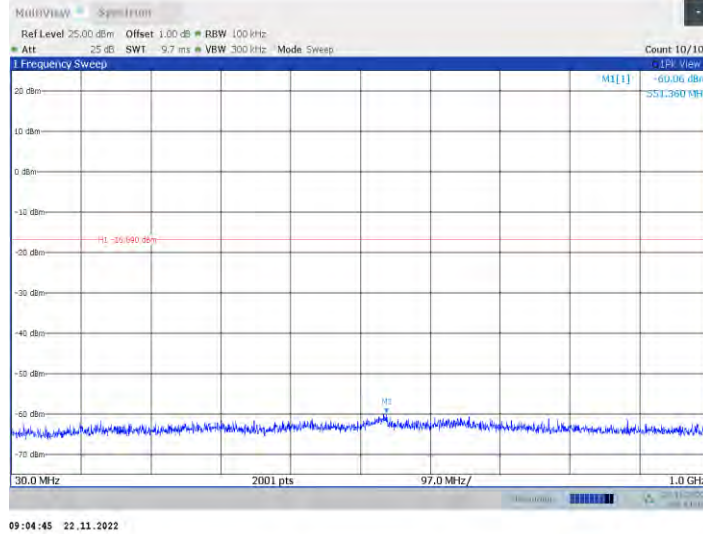
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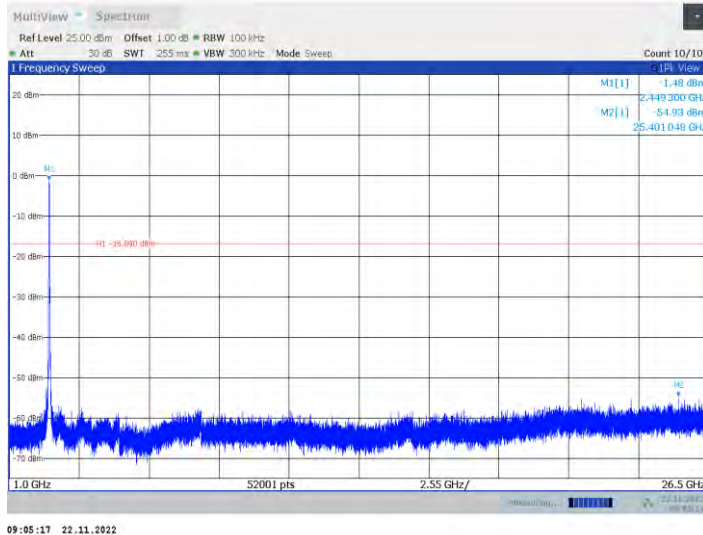
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11n40SISO_Ant1_2452_30~1000



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Report No.: SEWA2210000062RG03

Rev.: 01

Page: 82 of 134

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	12.45	12.56	99.12
11g	Ant1	2412	2.06	2.22	92.79
11n20SISO	Ant1	2412	1.92	2.04	94.12
11n40SISO	Ant1	2422	0.95	1.08	87.96



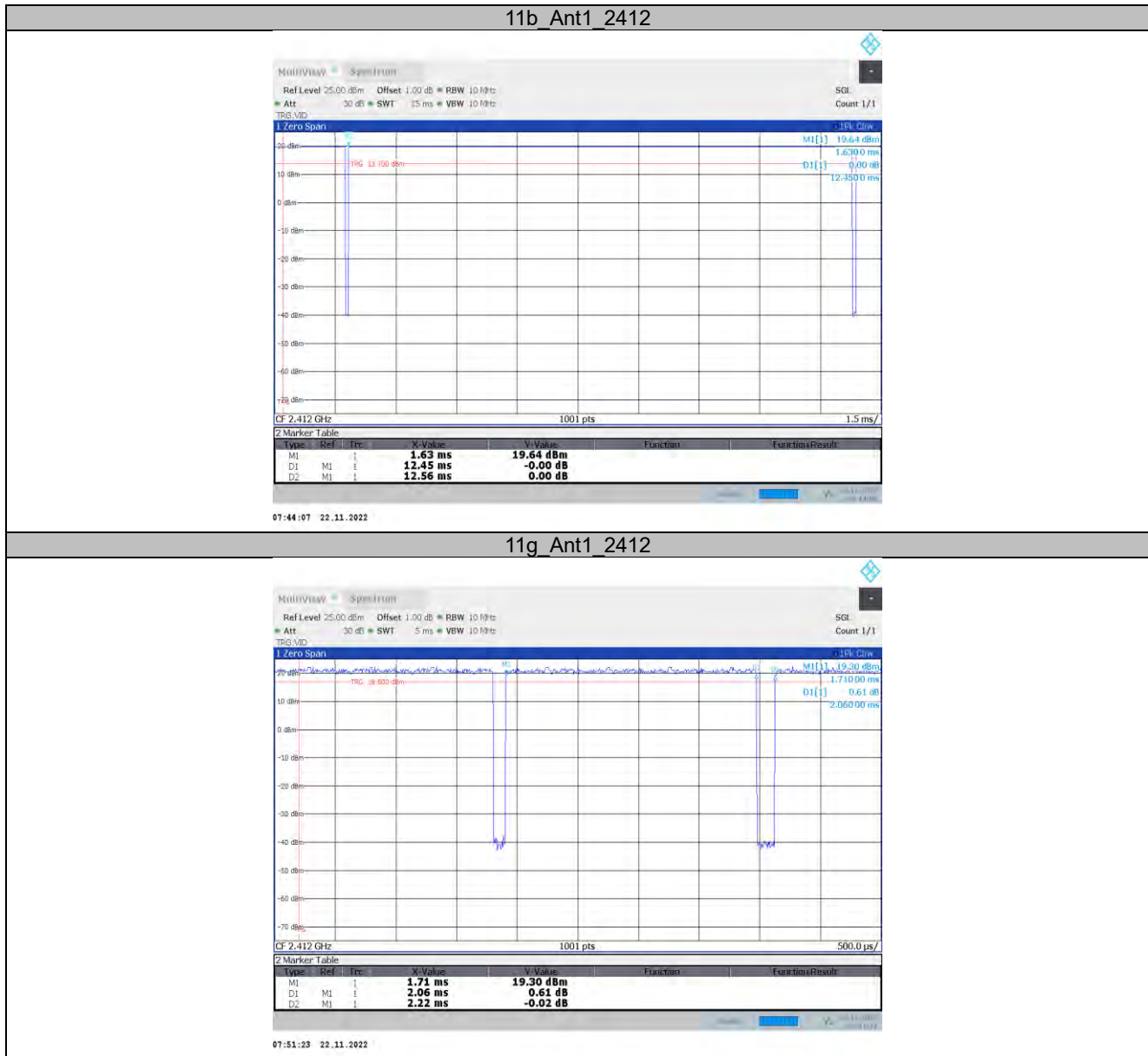
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Test Graphs

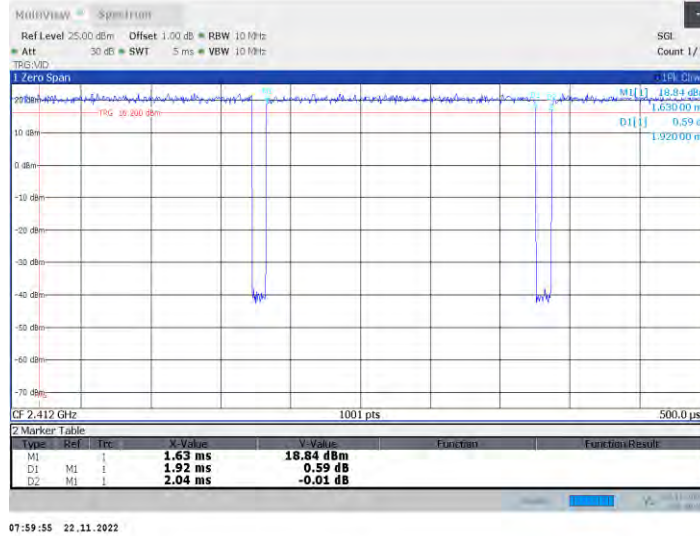


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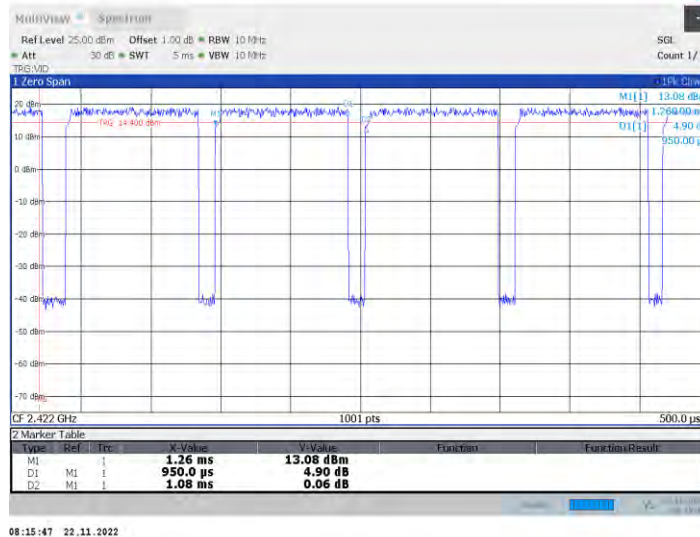
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11n20SISO_Ant1_2412



11n40SISO_Ant1_2422



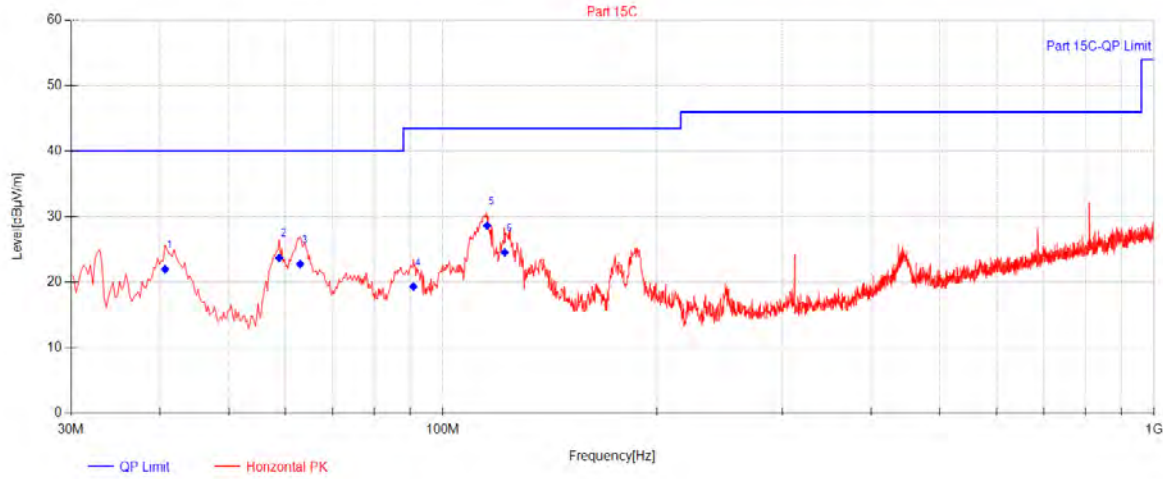
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 09

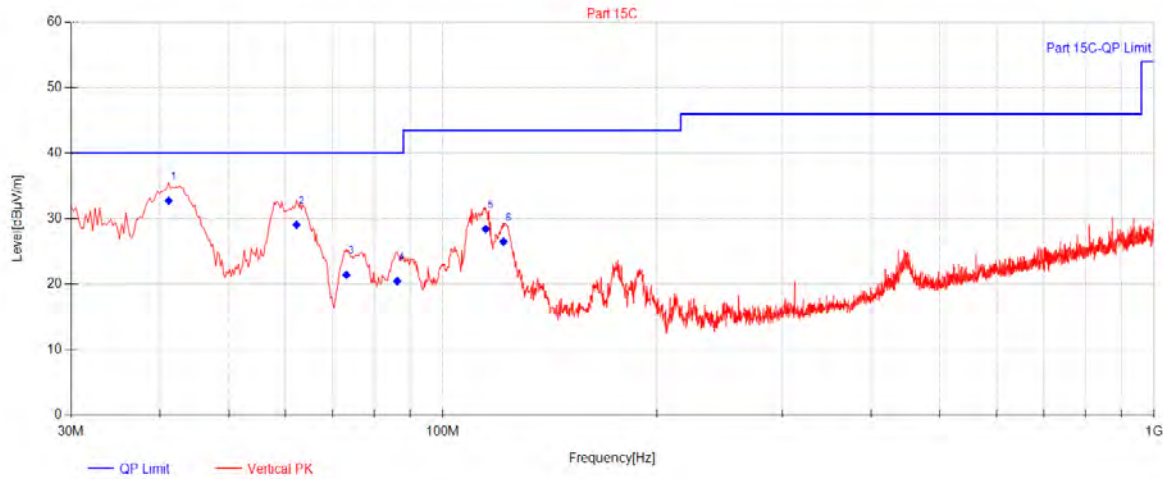


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.67	44.23	-36.26	14.01	21.98	40.00	18.02	256	165	Horizontal
2	58.8575	47.23	-36.37	12.84	23.70	40.00	16.30	132	288	Horizontal
3	62.98	47.02	-36.44	12.17	22.76	40.00	17.24	154	288	Horizontal
4	90.8675	46.19	-36.37	9.50	19.32	43.50	24.18	185	144	Horizontal
5	115.36	53.07	-36.15	11.72	28.64	43.50	14.86	197	134	Horizontal
6	122.15	48.22	-36.04	12.36	24.54	43.50	18.96	182	92	Horizontal



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Final 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	41.155	55.03	-36.25	13.97	32.75	40.00	7.25	265	218	Vertical
2	62.2525	53.18	-36.43	12.32	29.07	40.00	10.93	222	246	Vertical
3	73.165	47.33	-36.24	10.34	21.43	40.00	18.57	159	237	Vertical
4	86.26	47.19	-36.13	9.38	20.44	40.00	19.56	128	318	Vertical
5	114.875	52.89	-36.15	11.67	28.41	43.50	15.09	145	318	Vertical
6	121.665	50.23	-36.07	12.33	26.50	43.50	17.00	135	308	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:
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.



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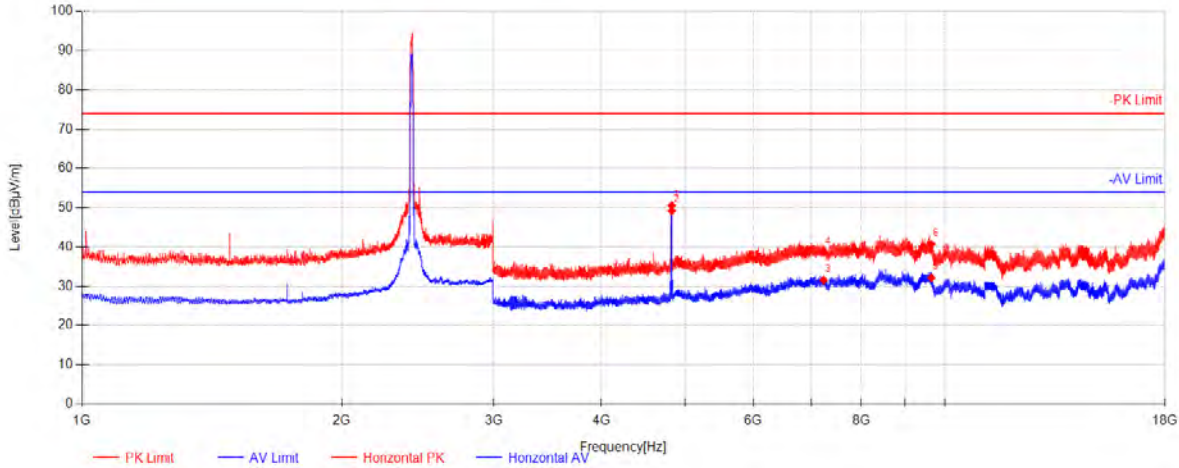
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Transmitter emission Above 1GHz

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	63.73	32.39	-45.54	50.58	74.00	23.42	256	28	Horizontal
2	4824.5	62.40	32.39	-45.54	49.25	54.00	4.75	145	4	Horizontal
3	7236.0000	38.57	36.58	-43.54	31.61	54.00	22.39	199	4	Horizontal
4	7236.0000	45.67	36.58	-43.54	38.71	74.00	35.29	135	280	Horizontal
5	9648.0000	33.31	38.39	-39.56	32.14	54.00	21.86	185	253	Horizontal
6	9648.0000	41.92	38.39	-39.56	40.75	74.00	33.25	145	308	Horizontal

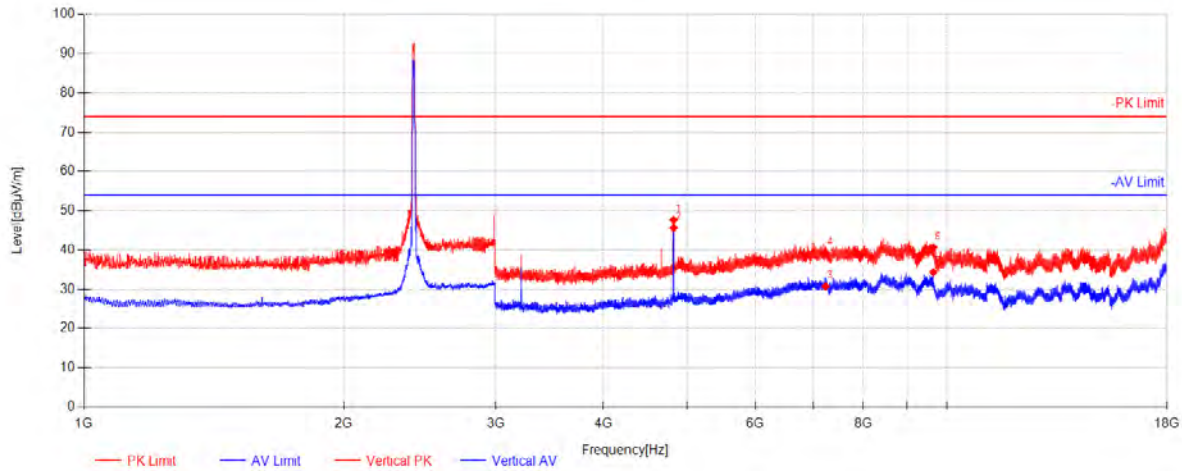


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802.11b_Channel 01



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	60.78	32.39	-45.54	47.63	74.00	26.37	258	54	Vertical
2	4824.5	58.78	32.39	-45.54	45.63	54.00	8.37	145	54	Vertical
3	7236.0000	37.69	36.58	-43.54	30.73	54.00	23.27	192	54	Vertical
4	7236.0000	46.18	36.58	-43.54	39.22	74.00	34.78	165	360	Vertical
5	9648.0000	35.47	38.39	-39.56	34.30	54.00	19.70	158	82	Vertical
6	9648.0000	41.83	38.39	-39.56	40.66	74.00	33.34	173	28	Vertical



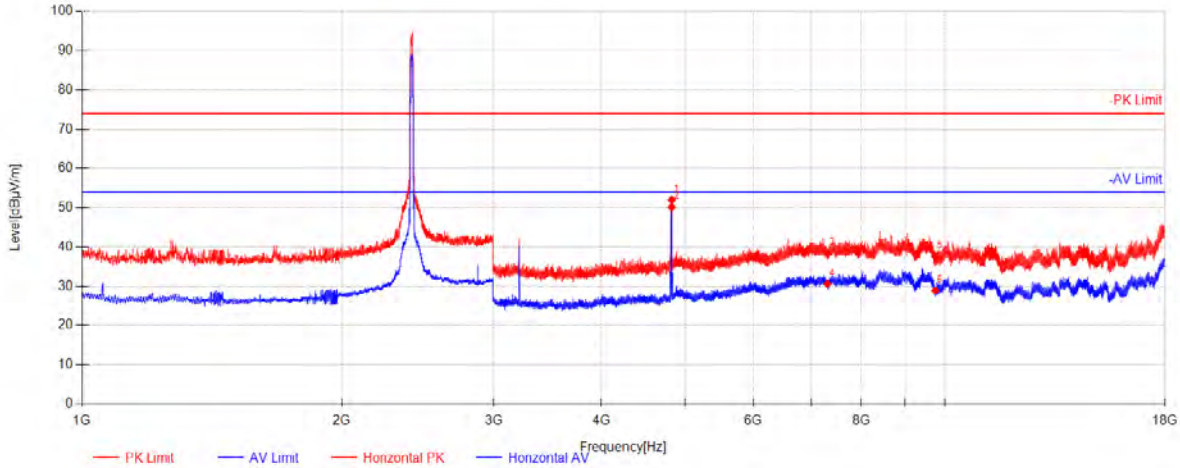
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802.11b_Channel 06



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	4824	65.12	32.39	-45.54	51.97	74.00	22.03	245	141	Horizontal
2	4824.5	63.34	32.39	-45.54	50.19	54.00	3.81	135	141	Horizontal
3	7311.0000	45.53	36.54	-43.71	38.36	74.00	35.64	175	29	Horizontal
4	7311.0000	37.78	36.54	-43.71	30.61	54.00	23.39	195	114	Horizontal
5	9748.0000	38.82	38.28	-39.46	37.64	74.00	36.36	166	85	Horizontal
6	9748.0000	30.10	38.28	-39.46	28.92	54.00	25.08	128	3	Horizontal

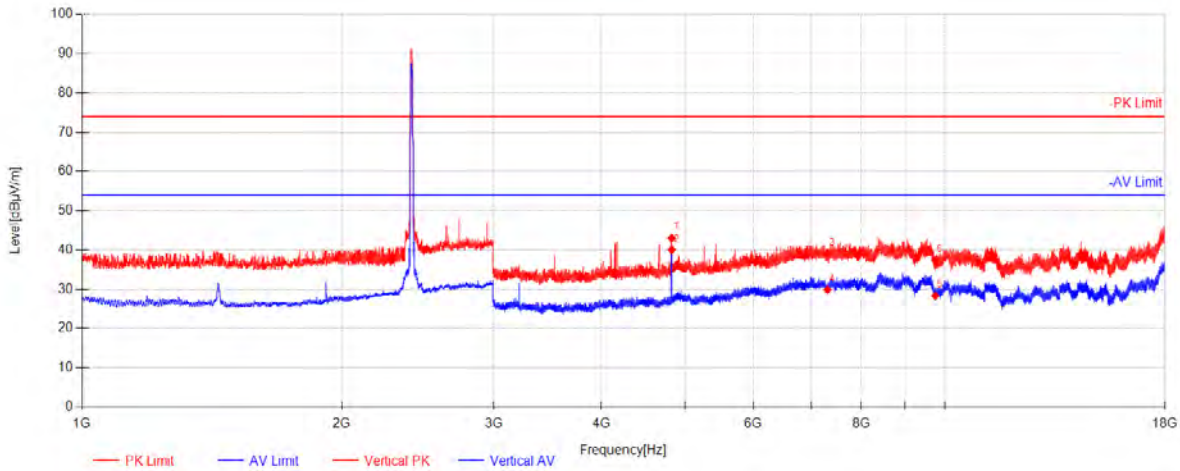


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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	56.20	32.39	-45.54	43.05	74.00	30.95	248	240	Vertical
2	4824.5	53.17	32.39	-45.54	40.02	54.00	13.98	186	269	Vertical
3	7311.0000	46.33	36.54	-43.71	39.16	74.00	34.84	135	43	Vertical
4	7311.0000	37.05	36.54	-43.71	29.88	54.00	24.12	192	98	Vertical
5	9748.0000	29.52	38.28	-39.46	28.34	54.00	25.66	122	69	Vertical
6	9748.0000	38.54	38.28	-39.46	37.36	74.00	36.64	146	154	Vertical

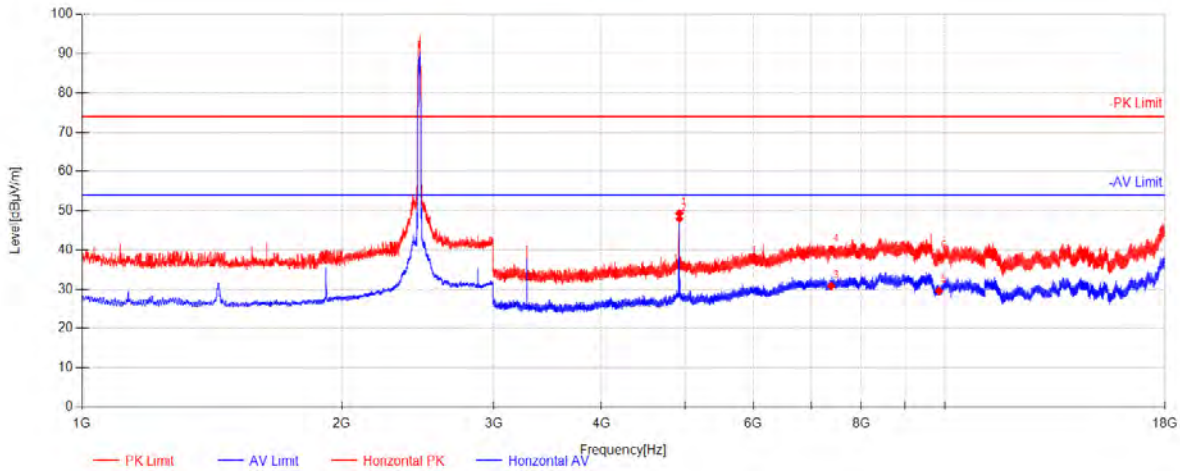


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802.11b_Channel 11



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	62.26	32.67	-45.56	49.37	74.00	24.63	245	360	Horizontal
2	4924.5	60.83	32.67	-45.56	47.94	54.00	6.06	152	139	Horizontal
3	7386.0000	37.80	36.50	-43.46	30.84	54.00	23.16	192	360	Horizontal
4	7386.0000	47.01	36.50	-43.46	40.05	74.00	33.95	169	359	Horizontal
5	9848.0000	30.71	38.28	-39.41	29.59	54.00	24.41	177	354	Horizontal
6	9848.0000	39.52	38.28	-39.41	38.40	74.00	35.60	135	360	Horizontal

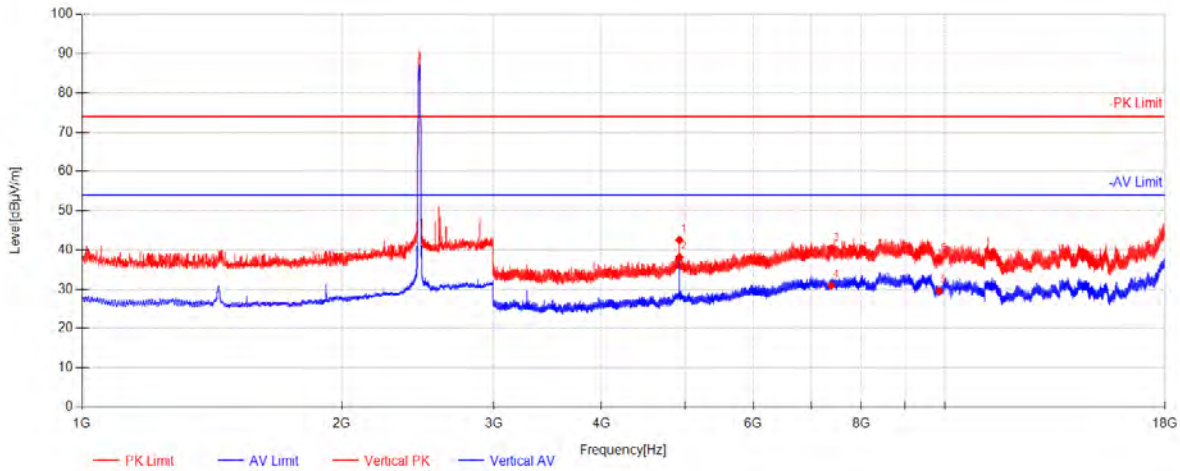


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802.11b_Channel 11



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	55.48	32.67	-45.56	42.59	74.00	31.41	251	29	Vertical
2	4924.5	51.04	32.67	-45.56	38.15	54.00	15.85	233	4	Vertical
3	7386.0000	47.35	36.50	-43.46	40.39	74.00	33.61	126	335	Vertical
4	7386.0000	37.96	36.50	-43.46	31.00	54.00	23.00	165	335	Vertical
5	9848.0000	30.74	38.28	-39.41	29.62	54.00	24.38	192	354	Vertical
6	9848.0000	38.97	38.28	-39.41	37.85	74.00	36.15	188	224	Vertical



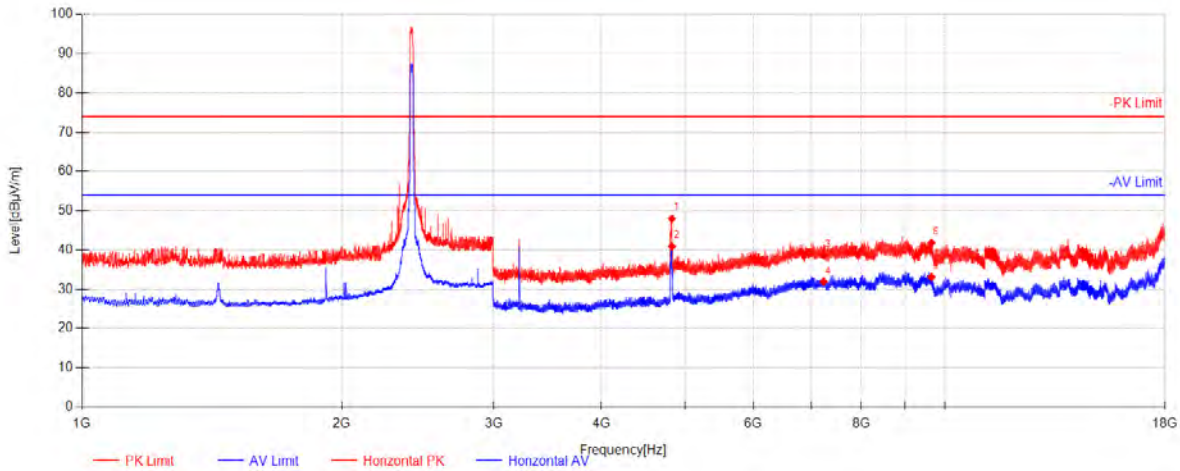
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802.11g_Channel 01



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	4826	61.11	32.39	-45.54	47.97	74.00	26.03	166	4	Horizontal
2	4828	54.06	32.40	-45.54	40.92	54.00	13.08	145	140	Horizontal
3	7236.0000	45.61	36.58	-43.54	38.65	74.00	35.35	185	354	Horizontal
4	7236.0000	38.87	36.58	-43.54	31.91	54.00	22.09	192	197	Horizontal
5	9648.0000	34.26	38.39	-39.56	33.09	54.00	20.91	135	336	Horizontal
6	9648.0000	43.03	38.39	-39.56	41.86	74.00	32.14	147	197	Horizontal

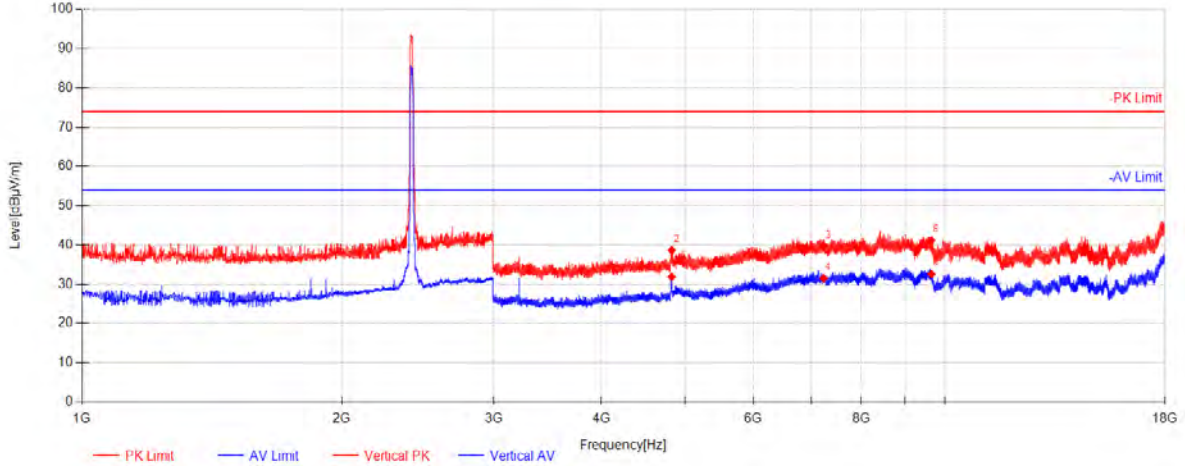


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802.11g_Channel 01



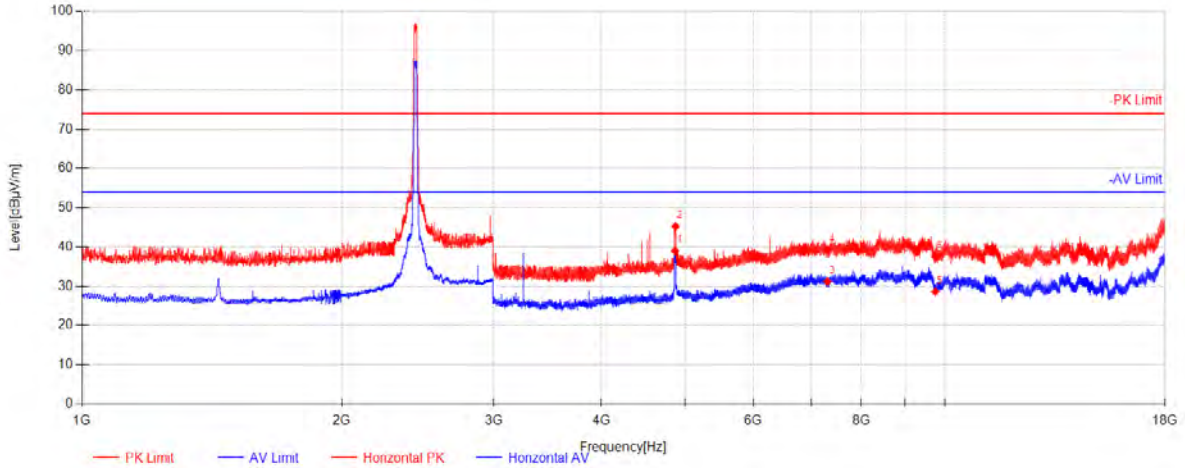
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4822	45.05	32.38	-45.54	31.89	54.00	22.11	248	226	Vertical
2	4824.0000	51.82	32.39	-45.54	38.67	74.00	35.33	159	226	Vertical
3	7236.0000	46.76	36.58	-43.54	39.80	74.00	34.20	168	338	Vertical
4	7236.0000	38.49	36.58	-43.54	31.53	54.00	22.47	142	359	Vertical
5	9648.0000	33.74	38.39	-39.56	32.57	54.00	21.43	138	354	Vertical
6	9648.0000	42.38	38.39	-39.56	41.21	74.00	32.79	175	26	Vertical



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802.11g_Channel 06



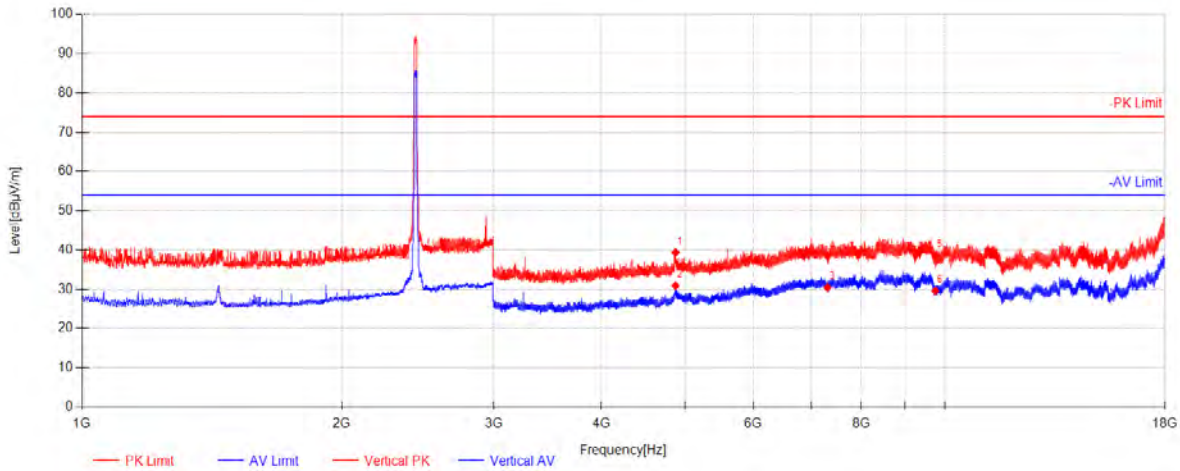
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4867.5	52.04	32.51	-45.53	39.02	54.00	14.98	244	360	Horizontal
2	4874.0000	58.25	32.53	-45.53	45.24	74.00	28.76	186	169	Horizontal
3	7311.0000	38.39	36.54	-43.71	31.22	54.00	22.78	174	4	Horizontal
4	7311.0000	46.47	36.54	-43.71	39.30	74.00	34.70	192	140	Horizontal
5	9748.0000	29.82	38.28	-39.46	28.64	54.00	25.36	153	354	Horizontal
6	9748.0000	38.73	38.28	-39.46	37.55	74.00	36.45	126	308	Horizontal



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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	52.35	32.53	-45.53	39.34	74.00	34.66	274	227	Vertical
2	4874.0000	43.94	32.53	-45.53	30.93	54.00	23.07	192	339	Vertical
3	7311.0000	37.61	36.54	-43.71	30.44	54.00	23.56	135	56	Vertical
4	7311.0000	45.64	36.54	-43.71	38.47	74.00	35.53	145	4	Vertical
5	9748.0000	39.80	38.28	-39.46	38.62	74.00	35.38	169	198	Vertical
6	9748.0000	30.79	38.28	-39.46	29.61	54.00	24.39	102	359	Vertical

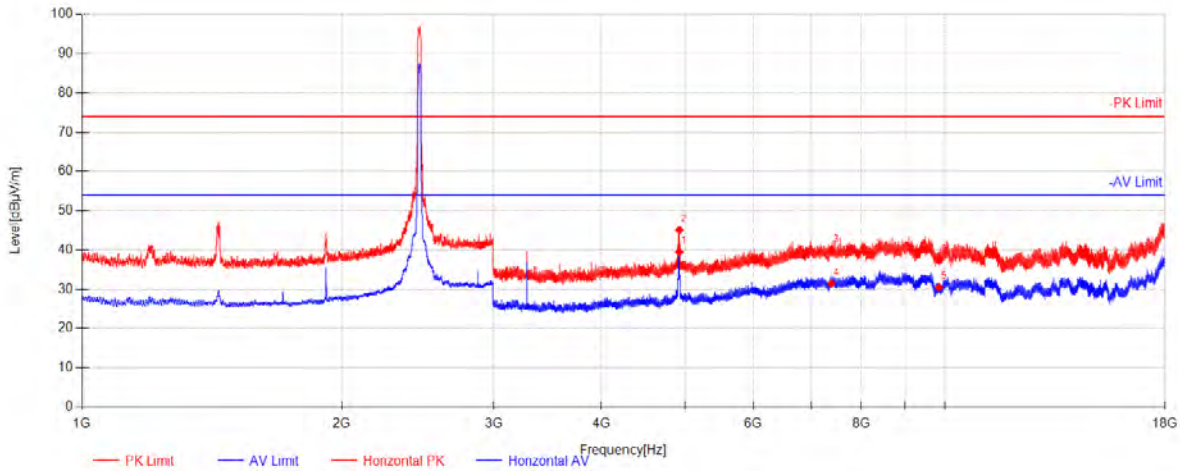


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802.11g_Channel 11



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	4922.5	52.37	32.66	-45.55	39.48	54.00	14.52	248	167	Horizontal
2	4924.0000	57.98	32.67	-45.56	45.09	74.00	28.91	188	28	Horizontal
3	7386.0000	46.86	36.50	-43.46	39.90	74.00	34.10	163	196	Horizontal
4	7386.0000	38.42	36.50	-43.46	31.46	54.00	22.54	256	167	Horizontal
5	9848.0000	31.63	38.28	-39.41	30.51	54.00	23.49	191	355	Horizontal
6	9848.0000	38.41	38.28	-39.41	37.29	74.00	36.71	148	360	Horizontal

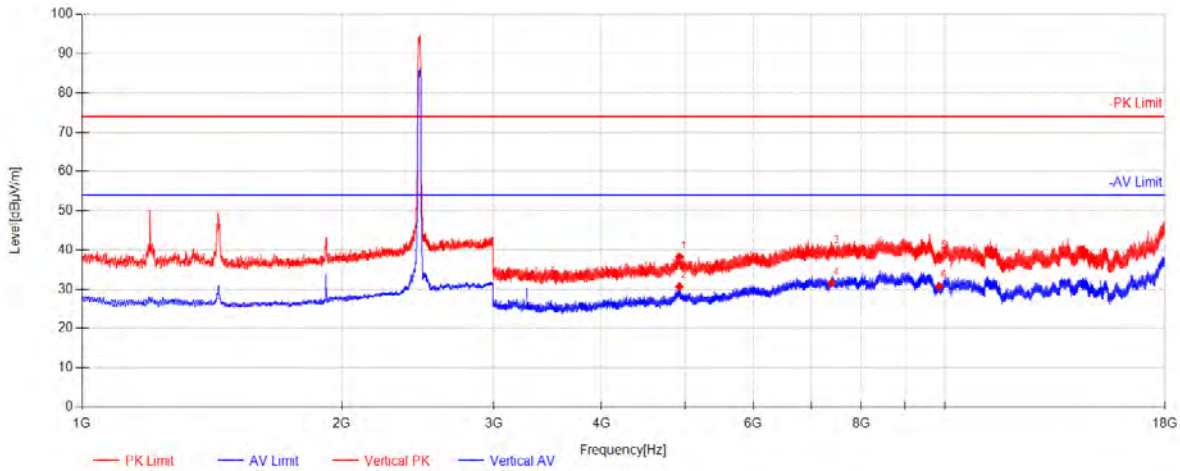


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802.11g_Channel 11



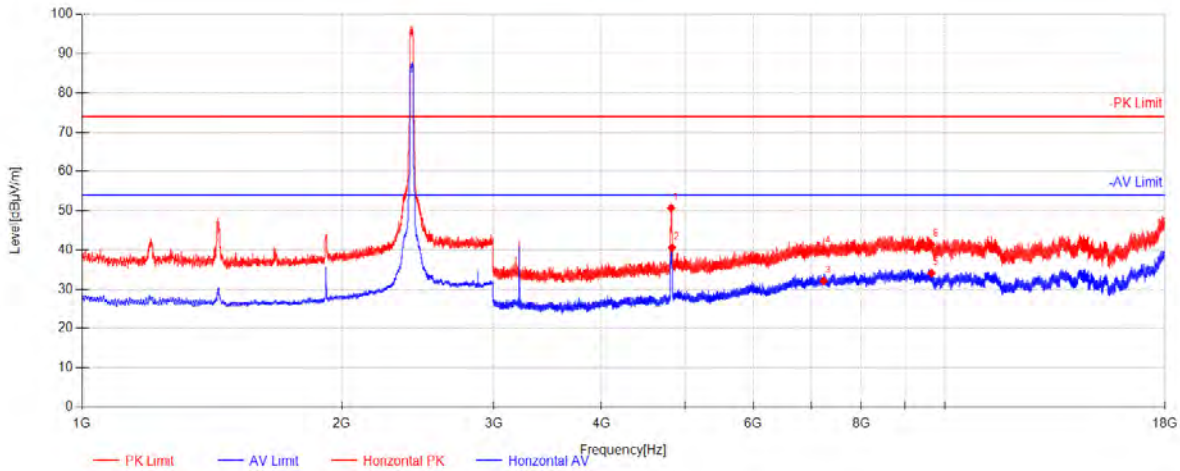
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	51.17	32.67	-45.56	38.28	74.00	35.72	228	112	Vertical
2	4924.0000	43.57	32.67	-45.56	30.68	54.00	23.32	255	84	Vertical
3	7386.0000	46.74	36.50	-43.46	39.78	74.00	34.22	122	139	Vertical
4	7386.0000	38.51	36.50	-43.46	31.55	54.00	22.45	145	251	Vertical
5	9848.0000	39.48	38.28	-39.41	38.36	74.00	35.64	136	112	Vertical
6	9848.0000	31.91	38.28	-39.41	30.79	54.00	23.21	169	225	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	4816.5	63.88	32.37	-45.54	50.71	74.00	23.29	254	355	Horizontal
2	4828.5	53.71	32.40	-45.54	40.57	54.00	13.43	126	355	Horizontal
3	7236.0000	39.06	36.58	-43.54	32.10	54.00	21.90	169	28	Horizontal
4	7236.0000	46.71	36.58	-43.54	39.75	74.00	34.25	158	360	Horizontal
5	9648.0000	35.25	38.39	-39.56	34.08	54.00	19.92	193	85	Horizontal
6	9648.0000	42.62	38.39	-39.56	41.45	74.00	32.55	213	282	Horizontal

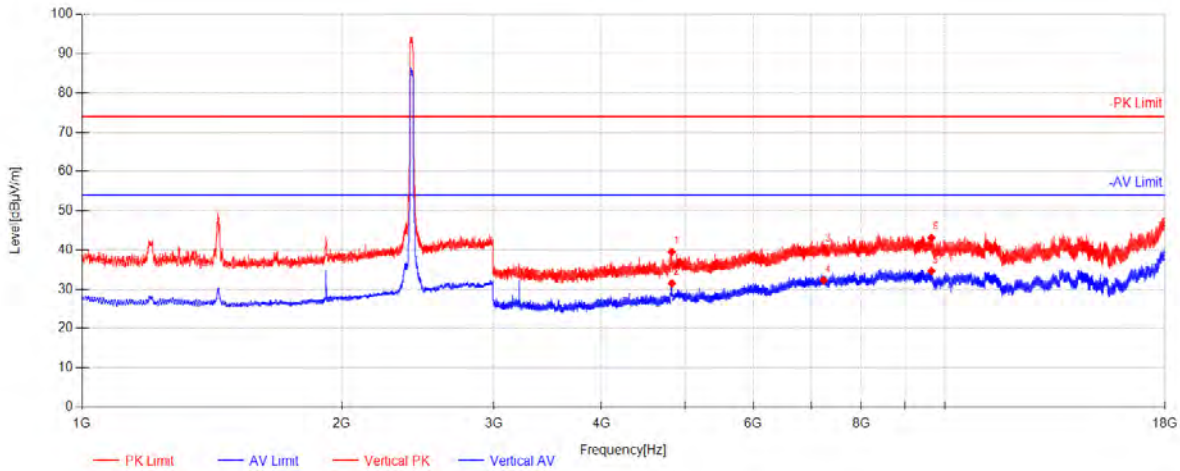


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802.11n20_Channel 01



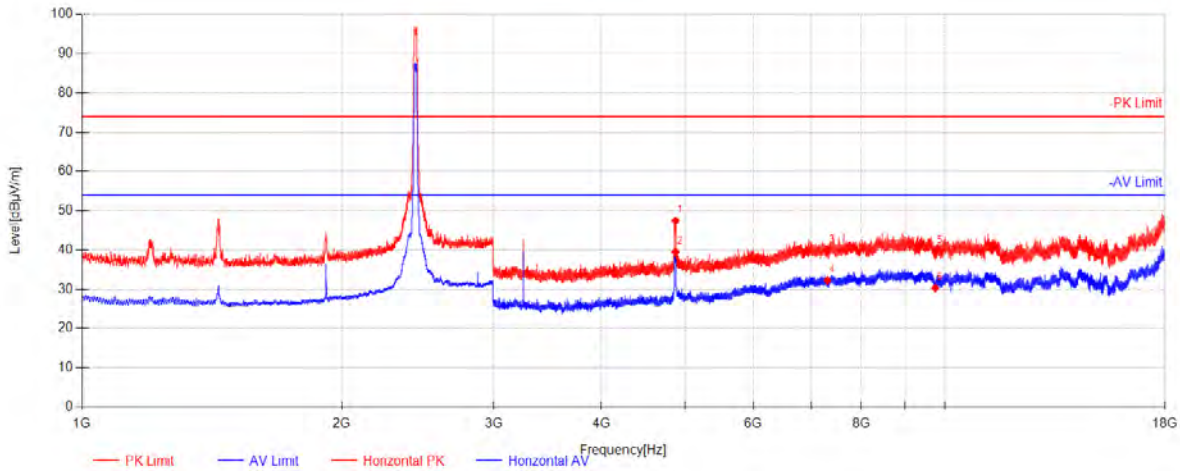
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	52.63	32.39	-45.54	39.48	74.00	34.52	216	280	Vertical
2	4825.5	44.67	32.39	-45.54	31.52	54.00	22.48	142	280	Vertical
3	7236.0000	47.17	36.58	-43.54	40.21	74.00	33.79	135	54	Vertical
4	7236.0000	39.26	36.58	-43.54	32.30	54.00	21.70	199	194	Vertical
5	9648.0000	35.80	38.39	-39.56	34.63	54.00	19.37	184	54	Vertical
6	9648.0000	44.30	38.39	-39.56	43.13	74.00	30.87	175	353	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	4874.0000	60.41	32.53	-45.53	47.40	74.00	26.60	245	168	Horizontal
2	4874.0000	52.49	32.53	-45.53	39.48	54.00	14.52	254	140	Horizontal
3	7311.0000	47.16	36.54	-43.71	39.99	74.00	34.01	126	360	Horizontal
4	7311.0000	39.43	36.54	-43.71	32.26	54.00	21.74	199	252	Horizontal
5	9748.0000	41.00	38.28	-39.46	39.82	74.00	34.18	136	111	Horizontal
6	9748.0000	31.52	38.28	-39.46	30.34	54.00	23.66	174	360	Horizontal



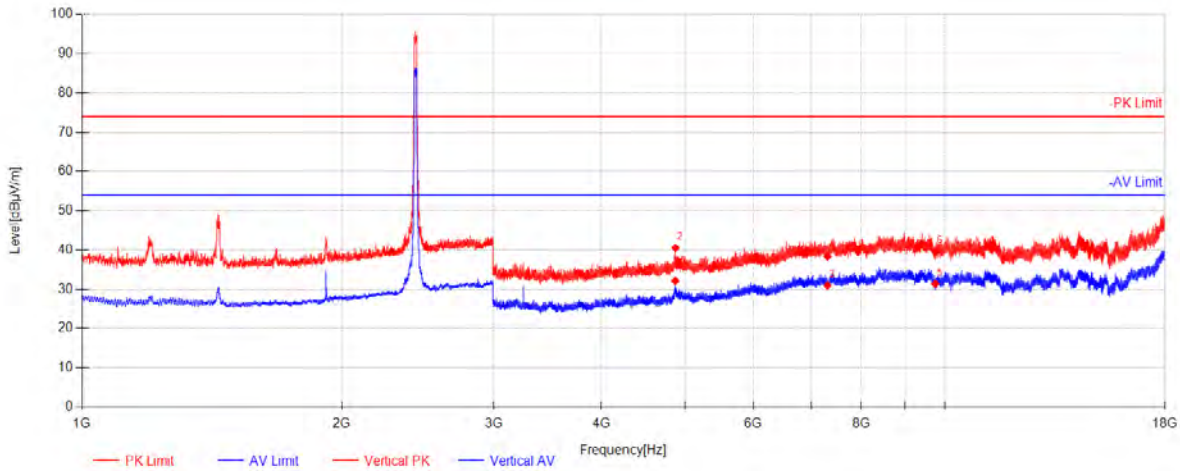
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802.11n20_Channel 06



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	4871	45.17	32.52	-45.53	32.16	54.00	21.84	166	4	Vertical
2	4873	53.53	32.52	-45.53	40.52	74.00	33.48	210	29	Vertical
3	7311.0000	38.14	36.54	-43.71	30.97	54.00	23.03	254	57	Vertical
4	7311.0000	45.53	36.54	-43.71	38.36	74.00	35.64	213	197	Vertical
5	9748.0000	32.59	38.28	-39.46	31.41	54.00	22.59	189	252	Vertical
6	9748.0000	40.90	38.28	-39.46	39.72	74.00	34.28	196	337	Vertical

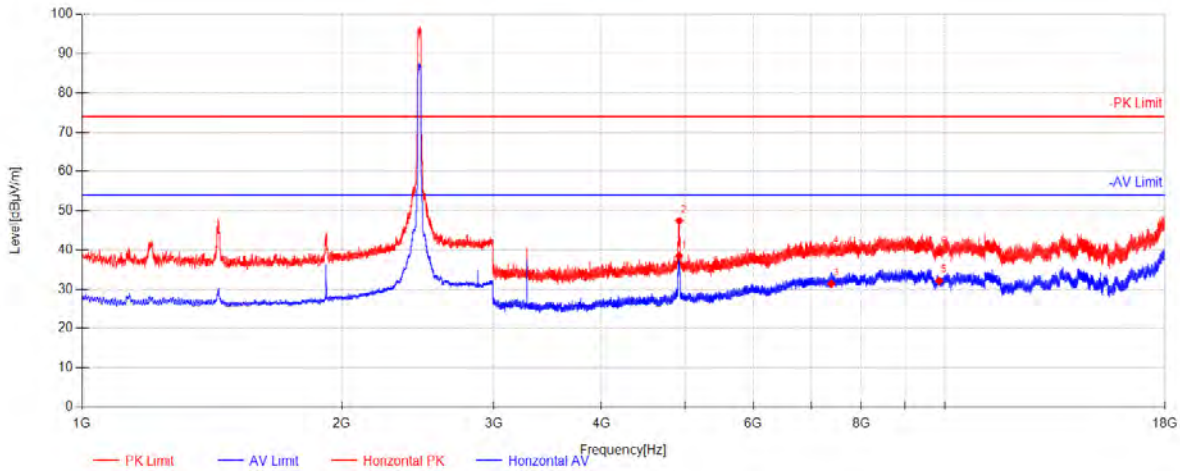


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802.11n20_Channel 11



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	4920.5	51.38	32.66	-45.55	38.48	54.00	15.52	152	144	Horizontal
2	4922.5	60.27	32.66	-45.55	47.38	74.00	26.62	145	171	Horizontal
3	7386.0000	38.35	36.50	-43.46	31.39	54.00	22.61	192	283	Horizontal
4	7386.0000	46.66	36.50	-43.46	39.70	74.00	34.30	168	200	Horizontal
5	9848.0000	33.26	38.28	-39.41	32.14	54.00	21.86	142	312	Horizontal
6	9848.0000	40.62	38.28	-39.41	39.50	74.00	34.50	135	283	Horizontal

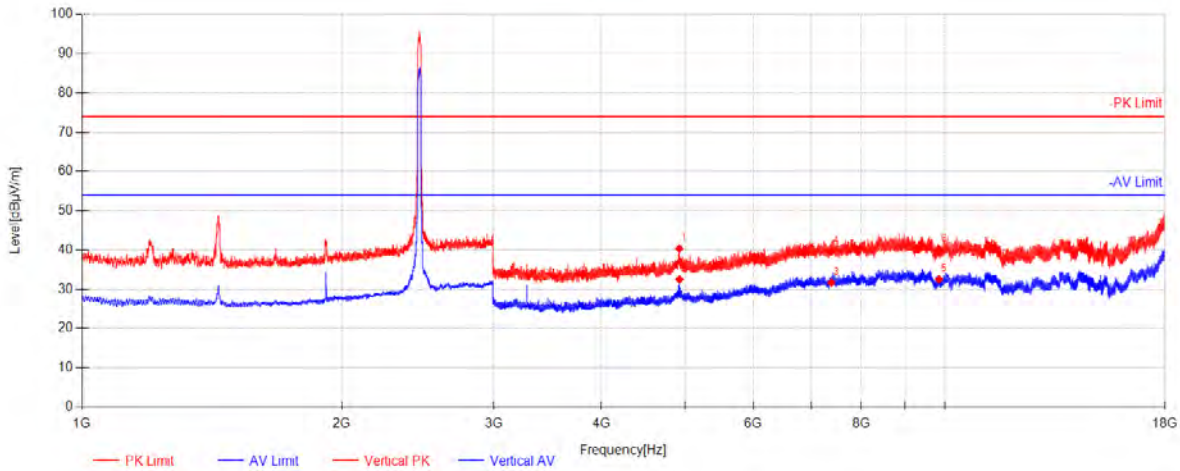


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802.11n20_Channel 11



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	53.21	32.67	-45.56	40.32	74.00	33.68	214	278	Vertical
2	4925.5	45.40	32.67	-45.56	32.51	54.00	21.49	185	278	Vertical
3	7386.0000	38.66	36.50	-43.46	31.70	54.00	22.30	192	110	Vertical
4	7386.0000	46.59	36.50	-43.46	39.63	74.00	34.37	169	224	Vertical
5	9848.0000	33.62	38.28	-39.41	32.50	54.00	21.50	142	55	Vertical
6	9848.0000	41.19	38.28	-39.41	40.07	74.00	33.93	135	26	Vertical

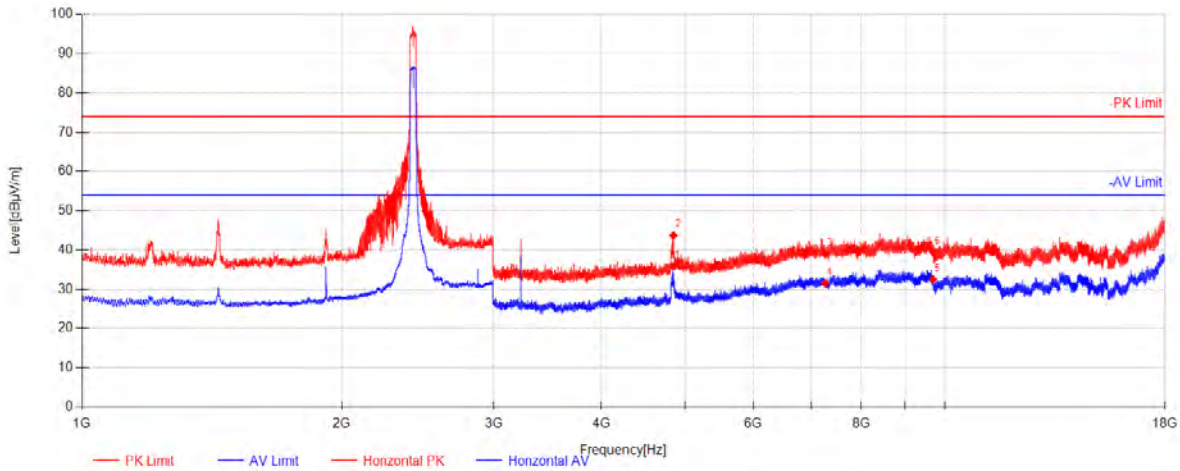


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802.11n40_Channel 03



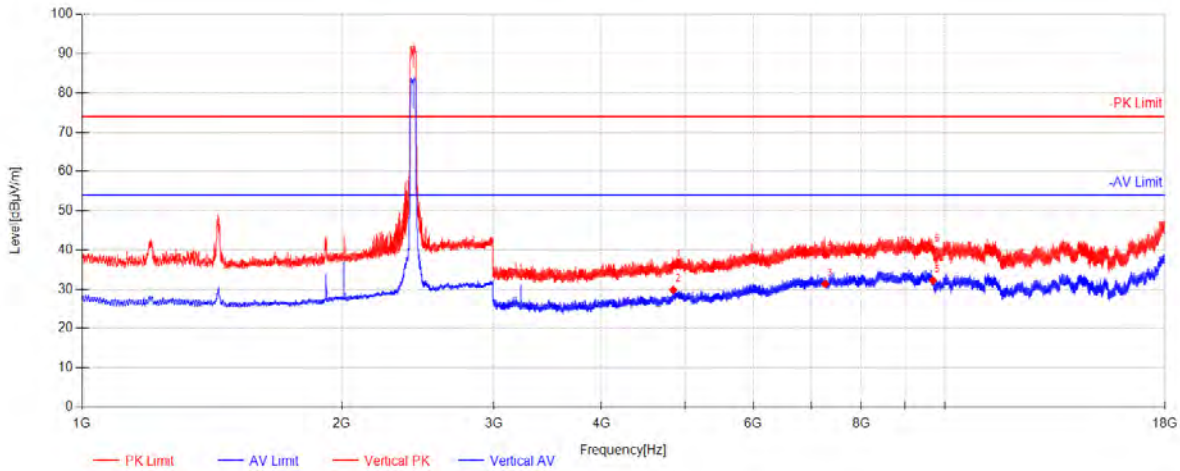
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4843	48.97	32.44	-45.54	35.87	54.00	18.13	215	340	Horizontal
2	4846	56.81	32.45	-45.54	43.72	74.00	30.28	148	355	Horizontal
3	7266.0000	46.09	36.56	-43.64	39.02	74.00	34.98	156	170	Horizontal
4	7266.0000	38.60	36.56	-43.64	31.53	54.00	22.47	126	144	Horizontal
5	9688.0000	33.66	38.34	-39.47	32.54	54.00	21.46	192	112	Horizontal
6	9688.0000	40.61	38.34	-39.47	39.49	74.00	34.51	135	312	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	49.22	32.44	-45.54	36.13	74.00	37.87	125	312	Vertical
2	4844.5	42.94	32.44	-45.54	29.85	54.00	24.15	158	255	Vertical
3	7266.0000	38.43	36.56	-43.64	31.36	54.00	22.64	142	141	Vertical
4	7266.0000	45.77	36.56	-43.64	38.70	74.00	35.30	196	338	Vertical
5	9688.0000	33.37	38.34	-39.47	32.25	54.00	21.75	135	26	Vertical
6	9688.0000	41.28	38.34	-39.47	40.16	74.00	33.84	126	112	Vertical

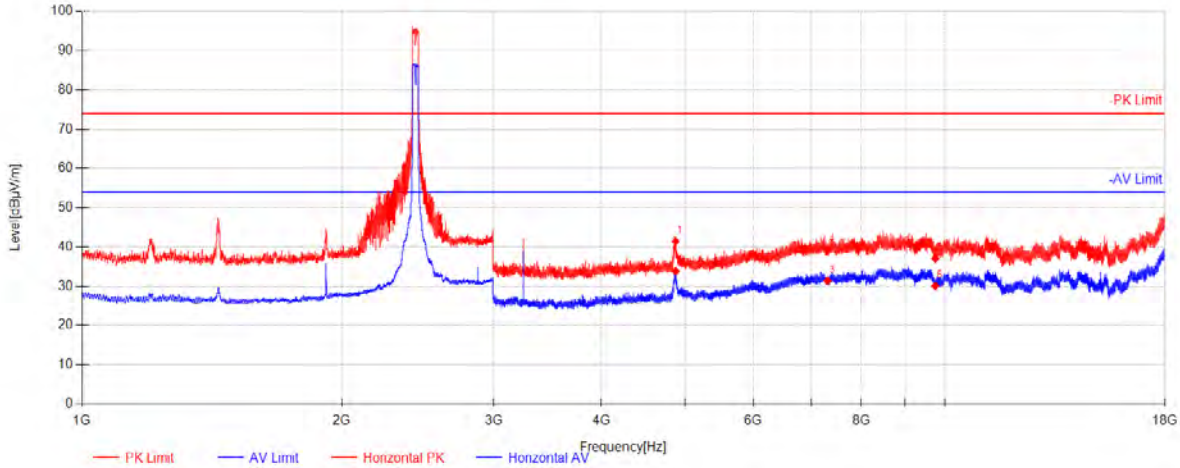


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802.11n40_Channel 06



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	54.45	32.53	-45.53	41.44	74.00	32.56	216	28	Horizontal
2	4874.0000	46.82	32.53	-45.53	33.81	54.00	20.19	147	167	Horizontal
3	7311.0000	38.59	36.54	-43.71	31.42	54.00	22.58	196	225	Horizontal
4	7311.0000	46.41	36.54	-43.71	39.24	74.00	34.76	132	355	Horizontal
5	9748.0000	38.28	38.28	-39.46	37.10	74.00	36.90	155	360	Horizontal
6	9748.0000	31.31	38.28	-39.46	30.13	54.00	23.87	135	56	Horizontal



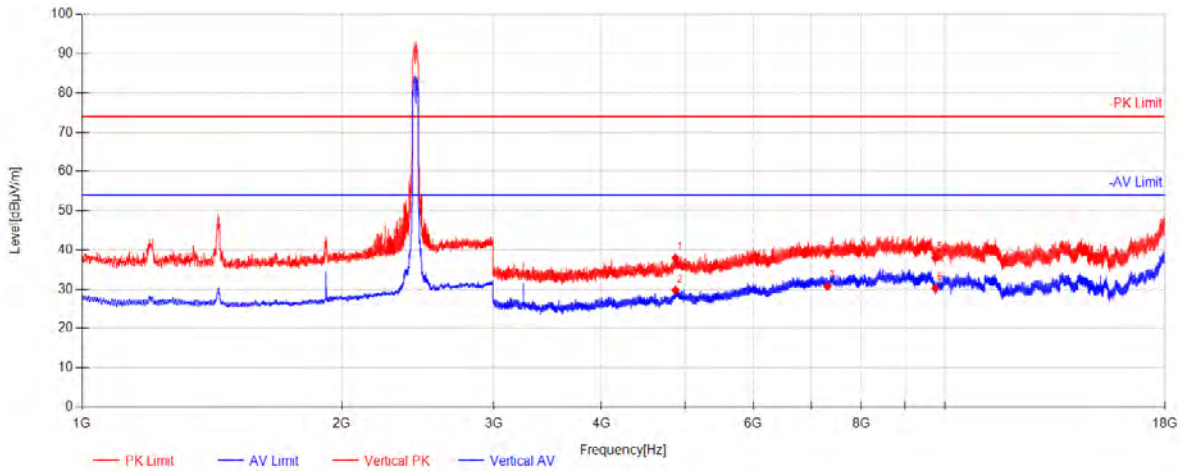
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1	4874.0000	50.94	32.53	-45.53	37.93	74.00	36.07	248	227	Vertical
2	4874.0000	42.79	32.53	-45.53	29.78	54.00	24.22	135	284	Vertical
3	7311.0000	37.92	36.54	-43.71	30.75	54.00	23.25	147	355	Vertical
4	7311.0000	46.39	36.54	-43.71	39.22	74.00	34.78	159	312	Vertical
5	9748.0000	39.16	38.28	-39.46	37.98	74.00	36.02	126	4	Vertical
6	9748.0000	31.49	38.28	-39.46	30.31	54.00	23.69	129	198	Vertical



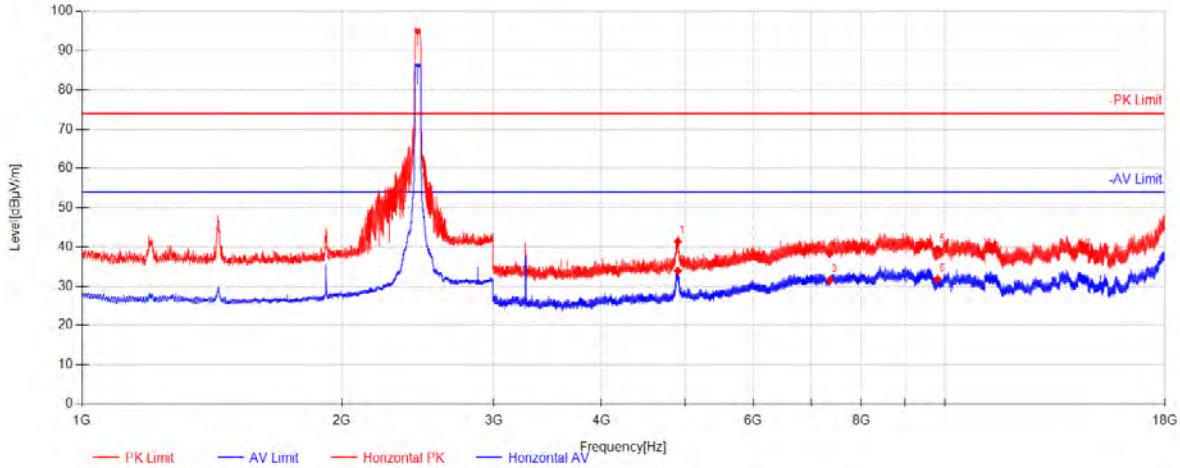
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802.11n40_Channel 09



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	54.29	32.61	-45.53	41.37	74.00	32.63	211	141	Horizontal
2	4904.0000	46.78	32.61	-45.53	33.86	54.00	20.14	132	354	Horizontal
3	7356.0000	38.55	36.51	-43.56	31.50	54.00	22.50	155	3	Horizontal
4	7356.0000	45.36	36.51	-43.56	38.31	74.00	35.69	145	336	Horizontal
5	9808.0000	40.63	38.23	-39.47	39.39	74.00	34.61	126	141	Horizontal
6	9808.0000	33.02	38.23	-39.47	31.78	54.00	22.22	196	359	Horizontal



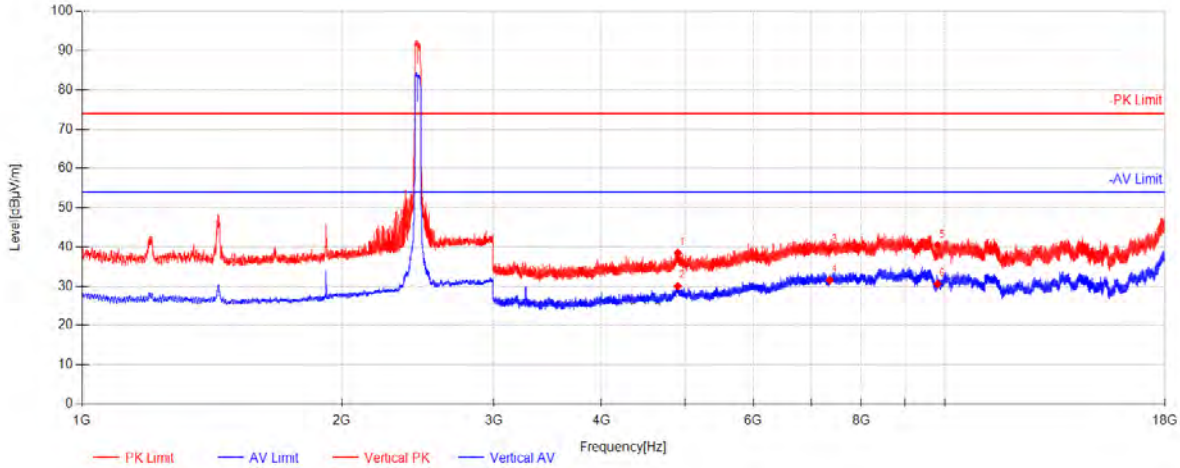
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802.11n40_Channel 09



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	51.38	32.61	-45.53	38.46	74.00	35.54	214	4	Vertical
2	4904.0000	42.97	32.61	-45.53	30.05	54.00	23.95	256	4	Vertical
3	7356.0000	46.37	36.51	-43.56	39.32	74.00	34.68	152	29	Vertical
4	7356.0000	38.61	36.51	-43.56	31.56	54.00	22.44	192	56	Vertical
5	9808.0000	41.69	38.23	-39.47	40.45	74.00	33.55	136	359	Vertical
6	9808.0000	31.82	38.23	-39.47	30.58	54.00	23.42	177	360	Vertical

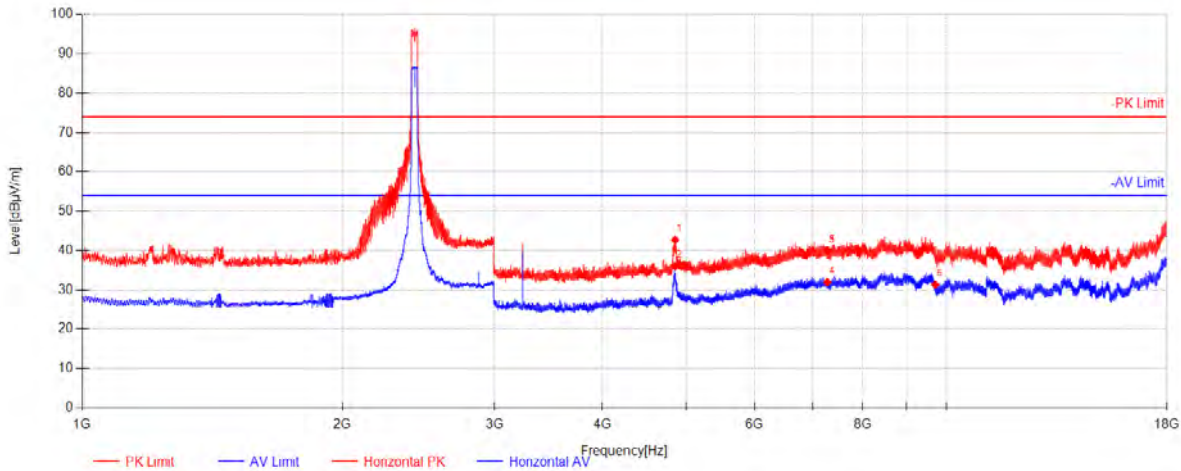


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802.11n40_Channel 04



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	4854.0000	55.78	32.47	-45.53	42.72	74.00	31.28	125	360	Horizontal
2	4854.0000	49.07	32.47	-45.53	36.01	54.00	17.99	176	359	Horizontal
3	7281.0000	47.10	36.56	-43.69	39.97	74.00	34.03	236	256	Horizontal
4	7281.0000	39.07	36.56	-43.69	31.94	54.00	22.06	198	341	Horizontal
5	7281.0000	47.10	36.56	-43.69	39.97	74.00	34.03	255	215	Horizontal
6	9708.0000	32.43	38.32	-39.44	31.31	54.00	22.69	145	197	Horizontal

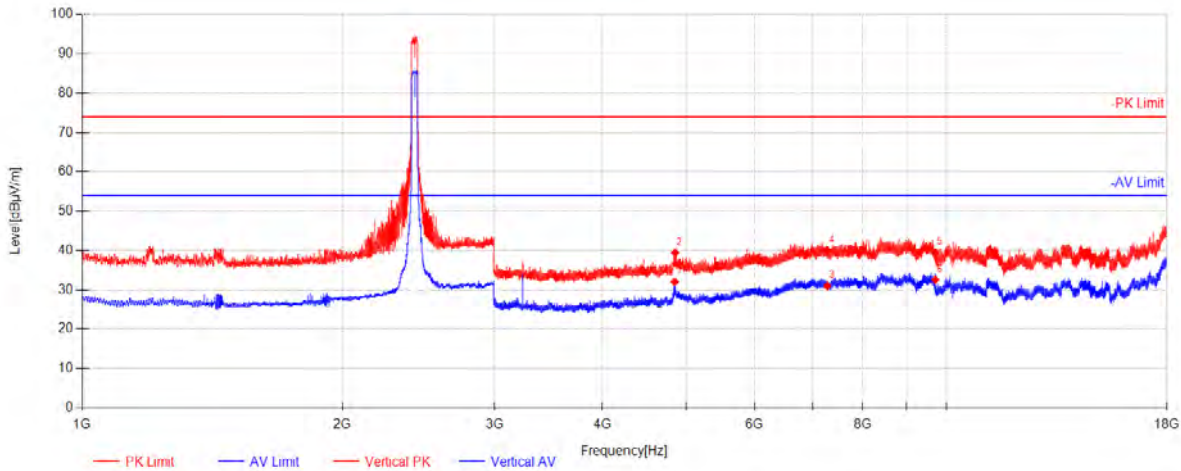


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802.11n40_Channel 04



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	4849	45.11	32.46	-45.54	32.03	54.00	21.97	145	55	Vertical
2	4854.0000	52.46	32.47	-45.53	39.40	74.00	34.60	126	25	Vertical
3	7281.0000	38.17	36.56	-43.69	31.04	54.00	22.96	185	136	Vertical
4	7281.0000	47.16	36.56	-43.69	40.03	74.00	33.97	174	266	Vertical
5	9708.0000	40.58	38.32	-39.44	39.46	74.00	34.54	196	359	Vertical
6	9708.0000	33.65	38.32	-39.44	32.53	54.00	21.47	133	167	Vertical

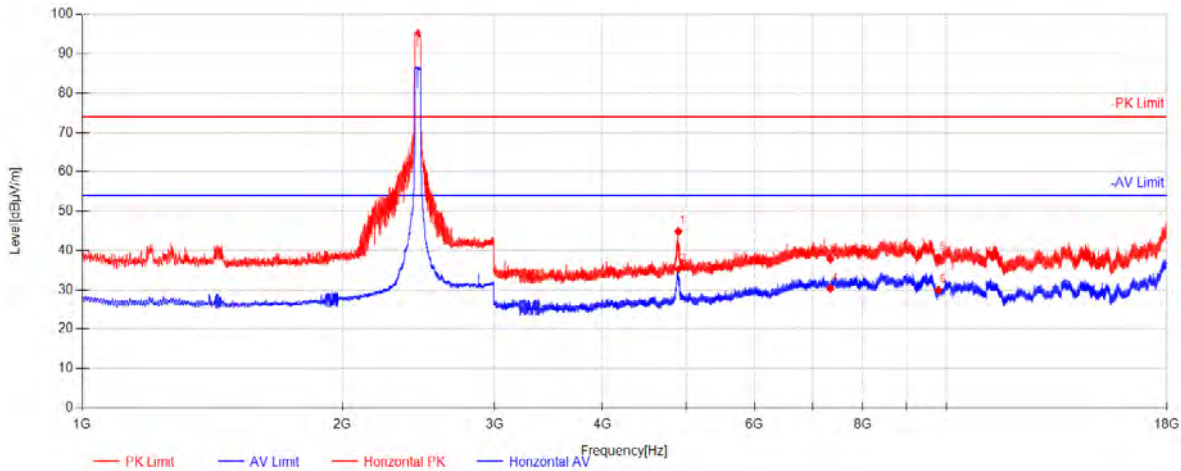


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802.11n40_Channel 08



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	4896	57.76	32.59	-45.53	44.82	74.00	29.18	213	4	Horizontal
2	4899.5	48.21	32.60	-45.53	35.28	54.00	18.72	254	359	Horizontal
3	7341.0000	44.90	36.52	-43.61	37.81	74.00	36.19	126	114	Horizontal
4	7341.0000	37.48	36.52	-43.61	30.39	54.00	23.61	289	313	Horizontal
5	9788.0000	39.37	38.23	-39.48	38.13	74.00	35.87	192	255	Horizontal
6	9788.0000	31.18	38.23	-39.48	29.94	54.00	24.06	170	168	Horizontal

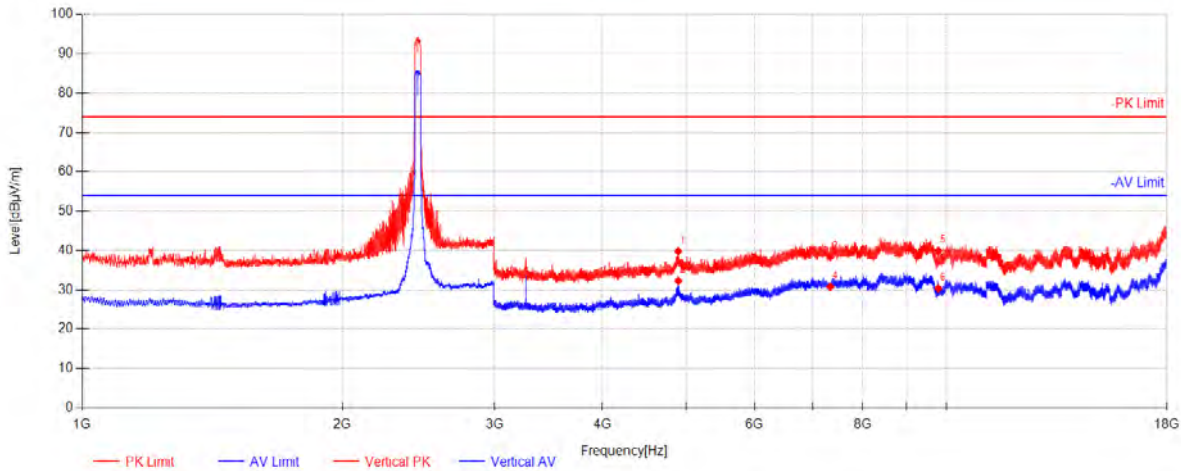


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802.11n40_Channel 08



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	4894.0000	52.71	32.58	-45.53	39.76	74.00	34.24	145	245	Vertical
2	4894.5	45.23	32.58	-45.53	32.28	54.00	21.72	126	233	Vertical
3	7341.0000	45.47	36.52	-43.61	38.38	74.00	35.62	186	197	Vertical
4	7341.0000	37.87	36.52	-43.61	30.78	54.00	23.22	152	359	Vertical
5	9788.0000	41.17	38.23	-39.48	39.93	74.00	34.07	199	174	Vertical
6	9788.0000	31.63	38.23	-39.48	30.39	54.00	23.61	130	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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.



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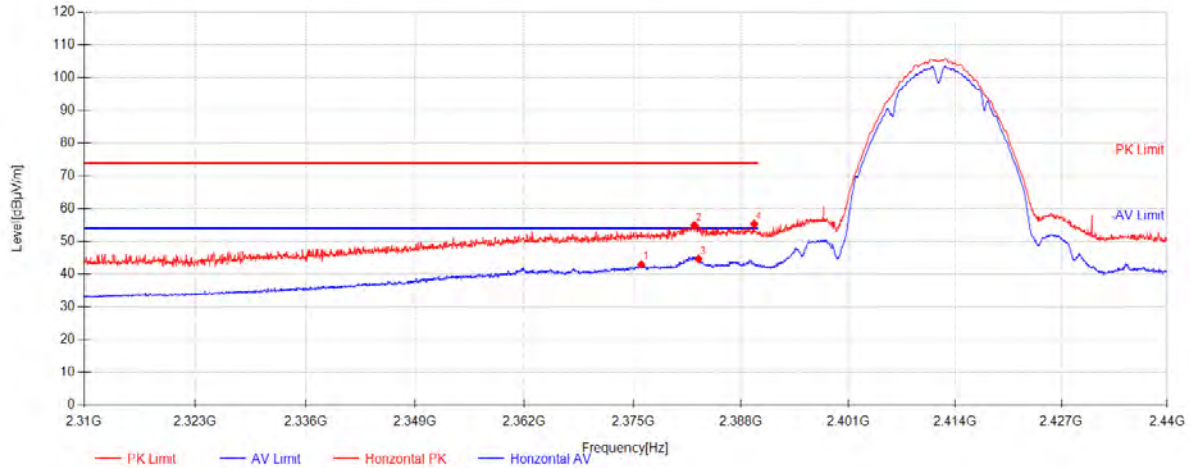
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Restricted bands around fundamental frequency

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	2375.9967	39.10	27.43	-23.57	42.96	54.00	11.04	254	170	Horizontal
2	2382.3667	51.09	27.43	-23.57	54.95	74.00	19.05	254	170	Horizontal
3	2382.8867	40.80	27.43	-23.57	44.66	54.00	9.34	254	170	Horizontal
4	2389.6033	51.42	27.43	-23.57	55.28	74.00	18.72	254	170	Horizontal



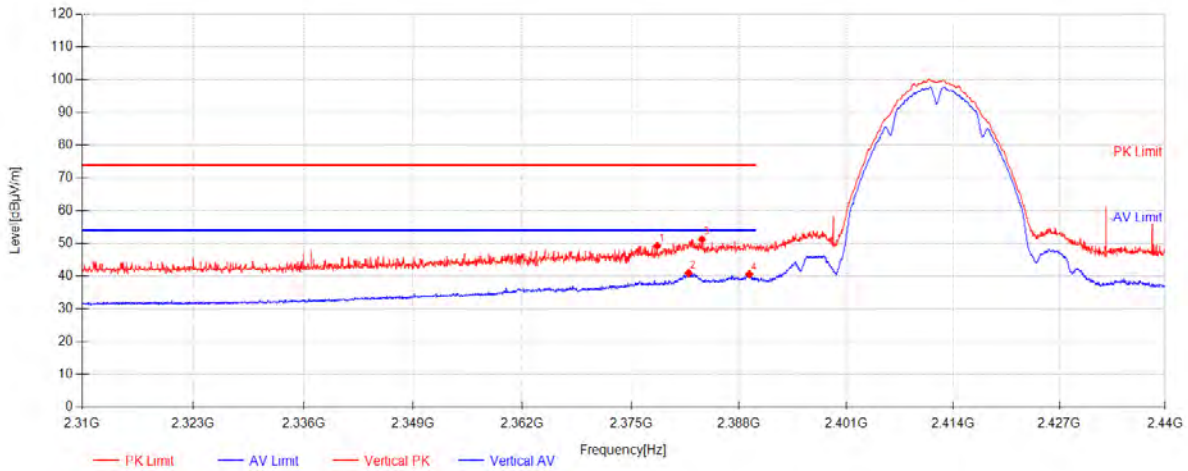
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802.11b_Channel 01



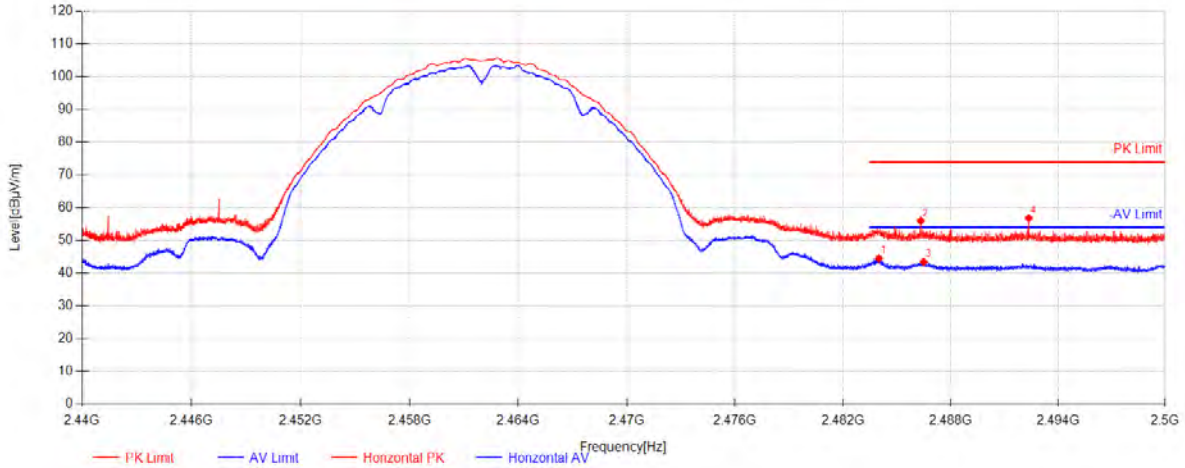
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.1633	45.40	27.43	-23.57	49.26	74.00	24.74	236	76	Vertical
2	2381.9333	37.04	27.43	-23.57	40.90	54.00	13.10	236	76	Vertical
3	2383.5367	47.39	27.43	-23.57	51.25	74.00	22.75	236	76	Vertical
4	2389.2567	36.69	27.43	-23.57	40.55	54.00	13.45	236	76	Vertical



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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.0025	40.38	27.72	-23.54	44.55	54.00	9.45	211	7	Horizontal
2	2486.335	51.80	27.72	-23.54	55.98	74.00	18.02	211	7	Horizontal
3	2486.5	39.31	27.73	-23.54	43.49	54.00	10.51	211	7	Horizontal
4	2492.3725	52.58	27.74	-23.54	56.78	74.00	17.22	211	7	Horizontal

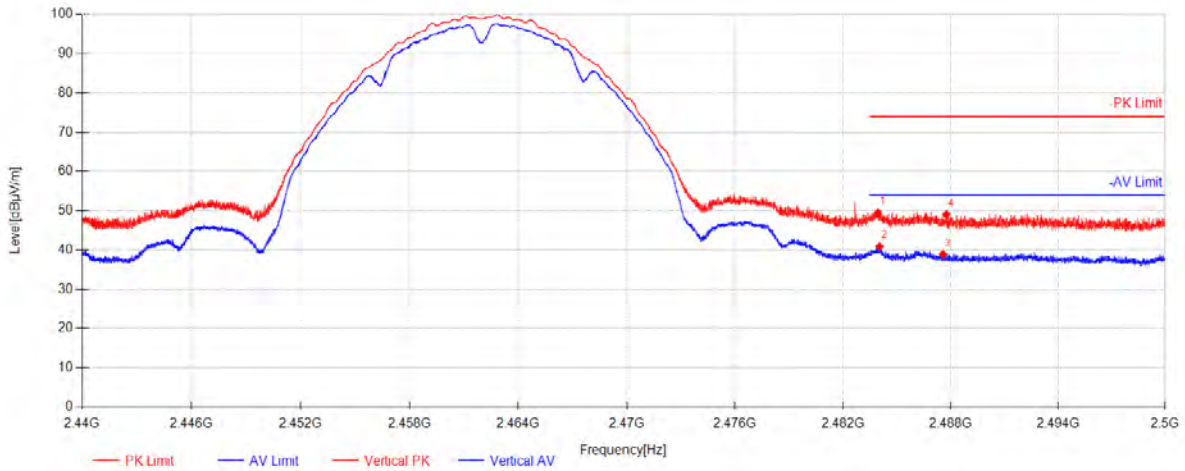


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802.11b_Channel 11



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	2483.95	45.34	27.72	-23.54	49.51	74.00	24.49	166	88	Vertical
2	2484.04	36.74	27.72	-23.54	40.91	54.00	13.09	166	88	Vertical
3	2487.5725	34.73	27.73	-23.54	38.92	54.00	15.08	166	88	Vertical
4	2487.76	44.89	27.73	-23.54	49.08	74.00	24.92	166	88	Vertical

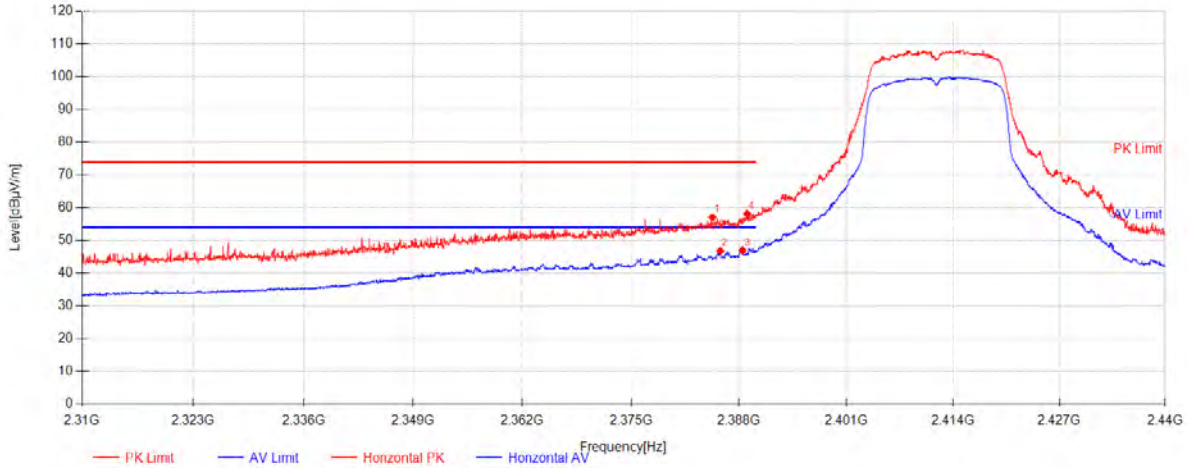


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802.11g_Channel 01



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	2384.7933	53.19	27.43	-23.57	57.05	74.00	16.95	285	165	Horizontal
2	2385.7467	42.90	27.43	-23.57	46.76	54.00	7.24	285	165	Horizontal
3	2388.4333	43.09	27.43	-23.57	46.95	54.00	7.05	285	165	Horizontal
4	2388.9967	54.26	27.43	-23.57	58.12	74.00	15.88	285	165	Horizontal

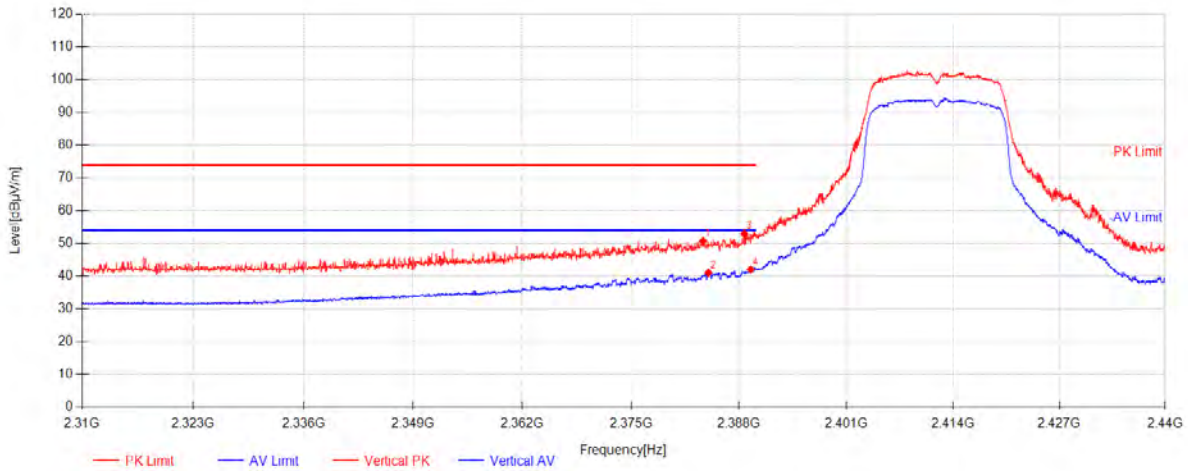


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802.11g_Channel 01



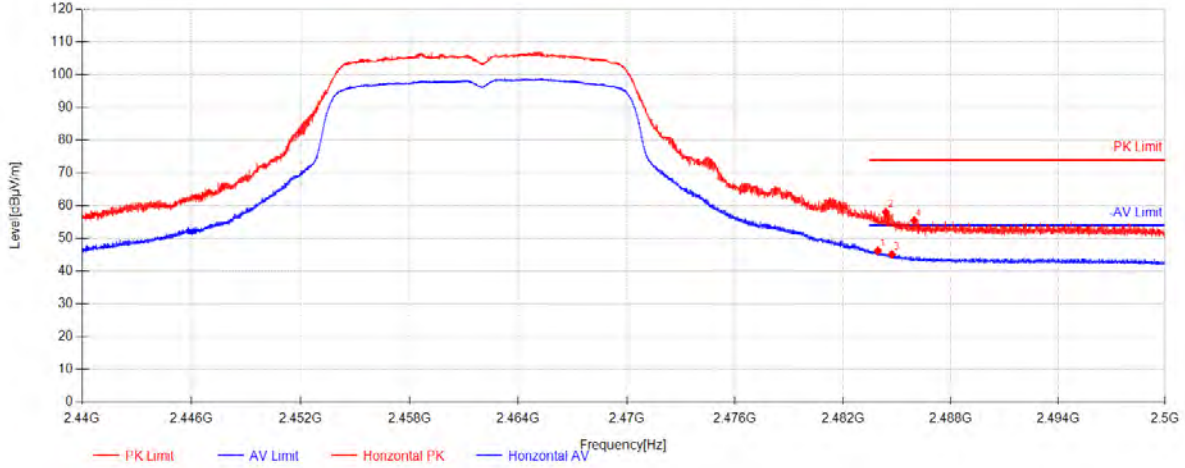
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1	2383.6667	46.88	27.43	-23.57	50.74	74.00	23.26	154	102	Vertical
2	2384.3167	37.16	27.43	-23.57	41.02	54.00	12.98	154	102	Vertical
3	2388.65	49.06	27.43	-23.57	52.92	74.00	21.08	154	102	Vertical
4	2389.43	38.19	27.43	-23.57	42.05	54.00	11.95	154	102	Vertical



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802.11g_Channel 11



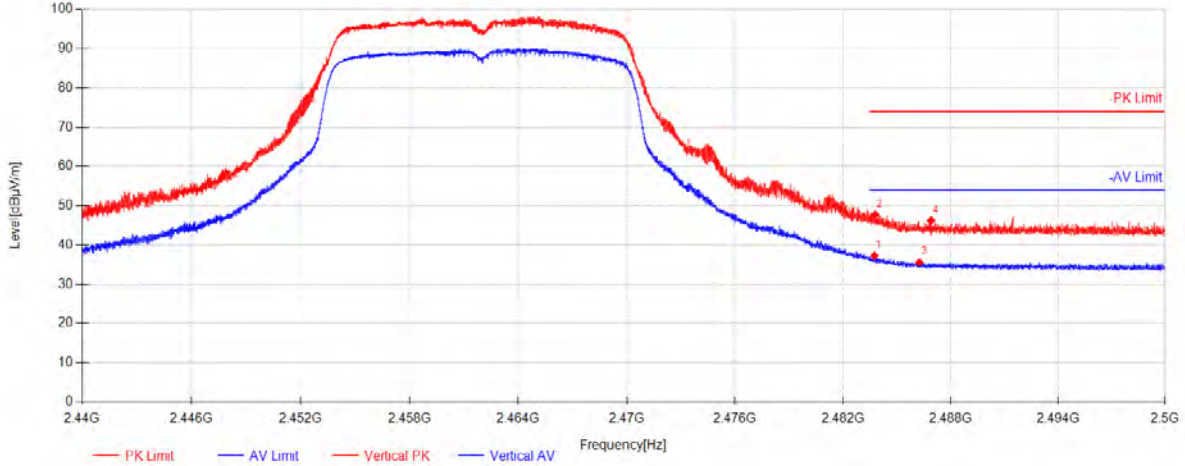
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1	2483.95	42.05	27.72	-23.54	46.22	54.00	7.78	259	356	Horizontal
2	2484.3925	53.87	27.72	-23.54	58.04	74.00	15.96	259	356	Horizontal
3	2484.7225	40.98	27.72	-23.54	45.16	54.00	8.84	259	356	Horizontal
4	2485.975	51.26	27.72	-23.54	55.44	74.00	18.56	259	356	Horizontal



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802.11g_Channel 11



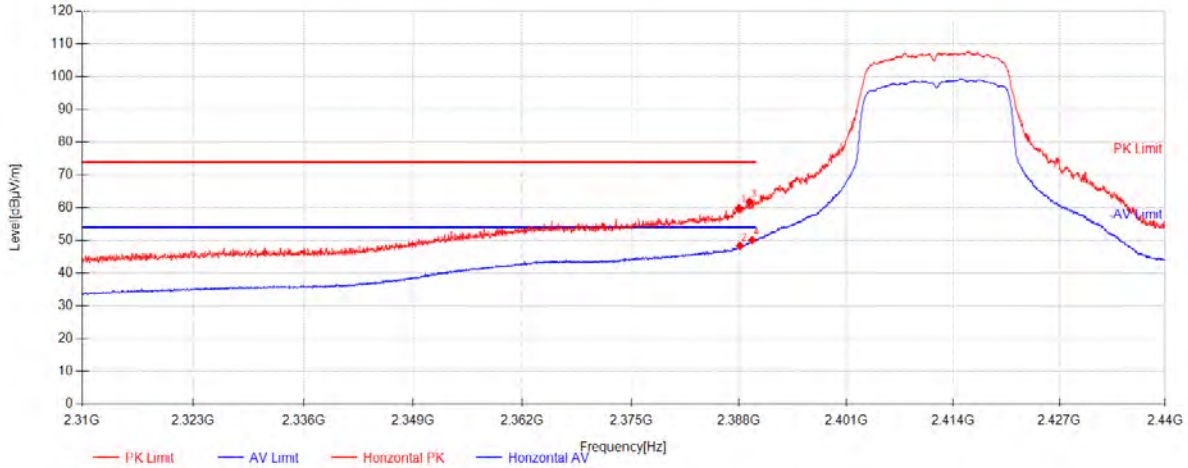
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.755	33.08	27.72	-23.54	37.25	54.00	16.75	298	276	Vertical
2	2483.8	43.55	27.72	-23.54	47.72	74.00	26.28	298	276	Vertical
3	2486.26	31.40	27.72	-23.54	35.58	54.00	18.42	298	276	Vertical
4	2486.9125	42.00	27.73	-23.54	46.18	74.00	27.82	298	276	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	55.99	27.43	-23.57	59.85	74.00	14.15	245	125	Horizontal
2	2388.13	44.49	27.43	-23.57	48.35	54.00	5.65	245	125	Horizontal
3	2389.2567	57.94	27.43	-23.57	61.80	74.00	12.20	245	125	Horizontal
4	2389.6033	46.24	27.43	-23.57	50.10	54.00	3.90	245	125	Horizontal

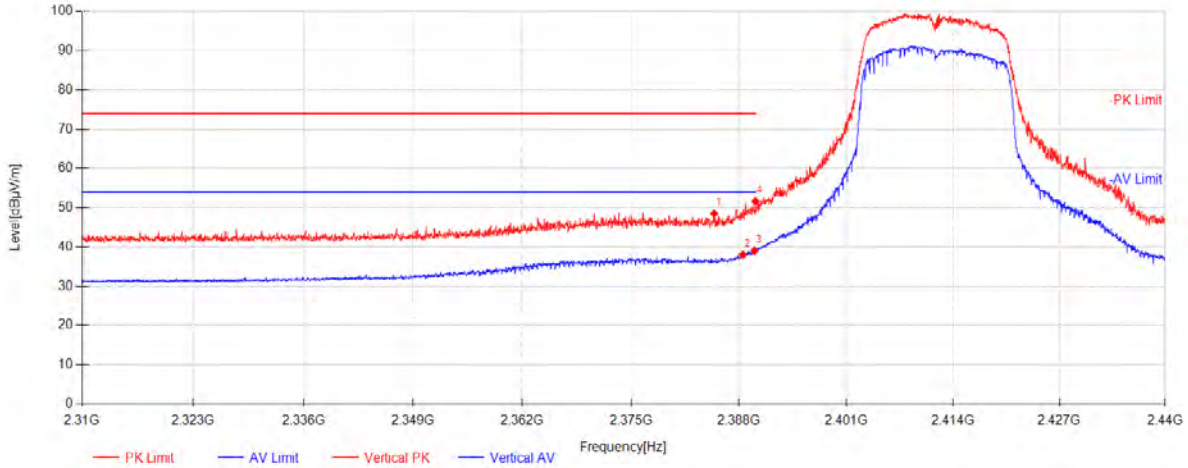


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802.11n20_Channel 01



Data List										
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1	2385.01	44.63	27.43	-23.57	48.49	74.00	25.51	299	91	Vertical
2	2388.4767	34.16	27.43	-23.57	38.02	54.00	15.98	299	91	Vertical
3	2389.8633	35.18	27.43	-23.57	39.04	54.00	14.96	299	91	Vertical
4	2389.9933	47.76	27.43	-23.57	51.62	74.00	22.38	299	91	Vertical

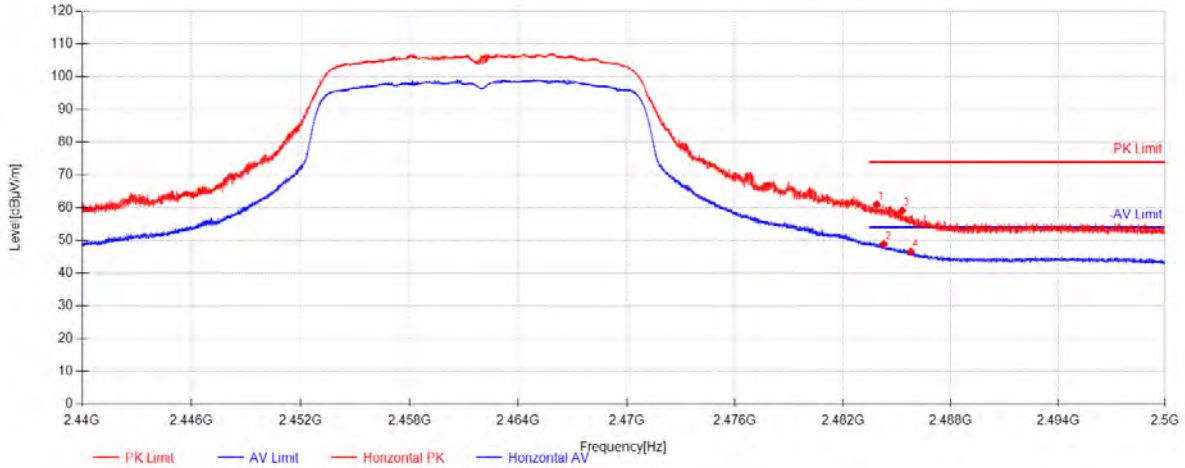


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802.11n20_Channel 11



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	2483.8825	56.84	27.72	-23.54	61.01	74.00	12.99	156	210	Horizontal
2	2484.2725	44.78	27.72	-23.54	48.95	54.00	5.05	156	210	Horizontal
3	2485.3	54.97	27.72	-23.54	59.15	74.00	14.85	156	210	Horizontal
4	2485.7875	42.36	27.72	-23.54	46.54	54.00	7.46	156	210	Horizontal

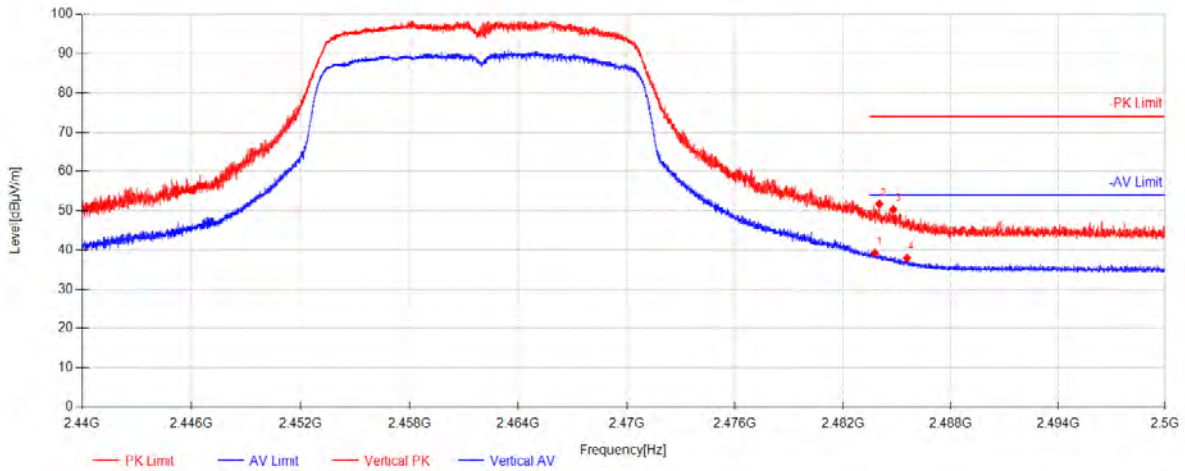


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802.11n20_Channel 11



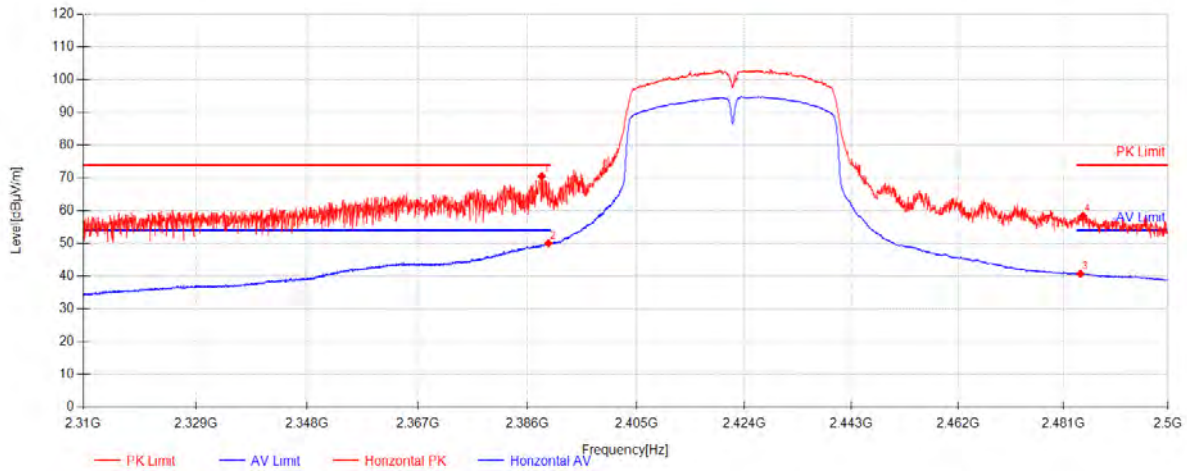
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7775	35.04	27.72	-23.54	39.21	54.00	14.79	289	87	Vertical
2	2484.025	47.55	27.72	-23.54	51.72	74.00	22.28	289	87	Vertical
3	2484.805	46.13	27.72	-23.54	50.31	74.00	23.69	289	87	Vertical
4	2485.57	33.77	27.72	-23.54	37.95	54.00	16.05	289	87	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	2388.4767	66.59	27.43	-23.57	70.45	74.00	3.55	151	244	Horizontal
2	2389.6467	46.21	27.43	-23.57	50.07	54.00	3.93	151	244	Horizontal
3	2484.1	36.52	27.72	-23.54	40.69	54.00	13.31	151	244	Horizontal
4	2484.58	54.29	27.72	-23.54	58.46	74.00	15.54	151	244	Horizontal

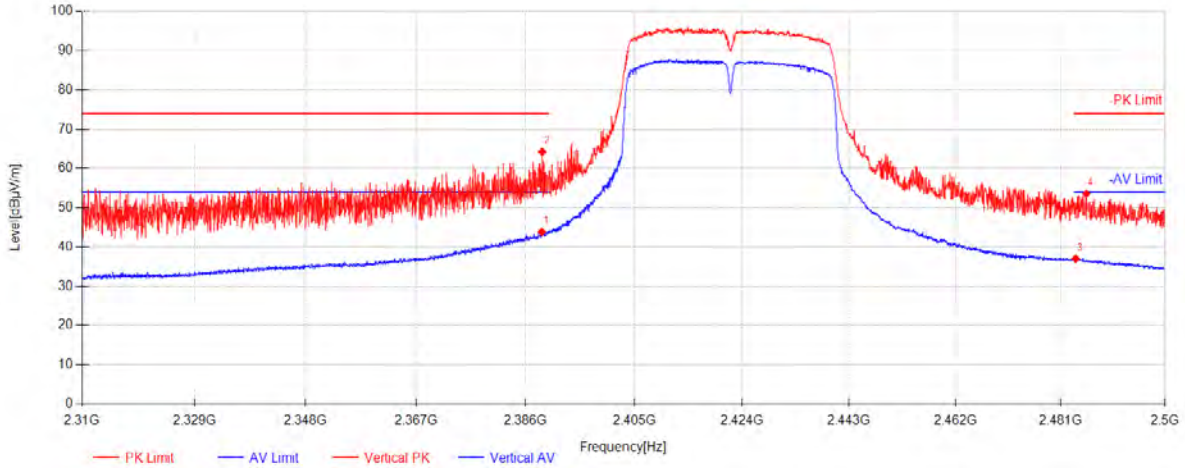


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.8233	40.00	27.43	-23.57	43.86	54.00	10.14	247	91	Vertical
2	2388.91	60.38	27.43	-23.57	64.24	74.00	9.76	247	91	Vertical
3	2483.74	32.86	27.72	-23.54	37.03	54.00	16.97	247	91	Vertical
4	2485.66	49.35	27.72	-23.54	53.53	74.00	20.47	247	91	Vertical

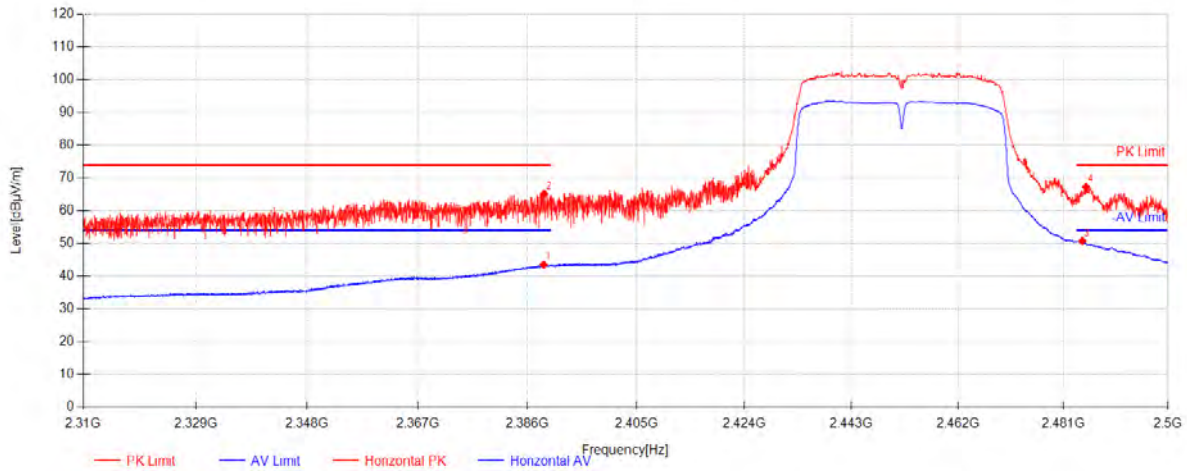


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802.11n40_Channel 09



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	2388.8233	39.69	27.43	-23.57	43.55	54.00	10.45	248	163	Horizontal
2	2388.91	61.35	27.43	-23.57	65.21	74.00	8.79	248	163	Horizontal
3	2484.46	46.61	27.72	-23.54	50.78	54.00	3.22	248	163	Horizontal
4	2485.12	63.09	27.72	-23.54	67.27	74.00	6.73	248	163	Horizontal

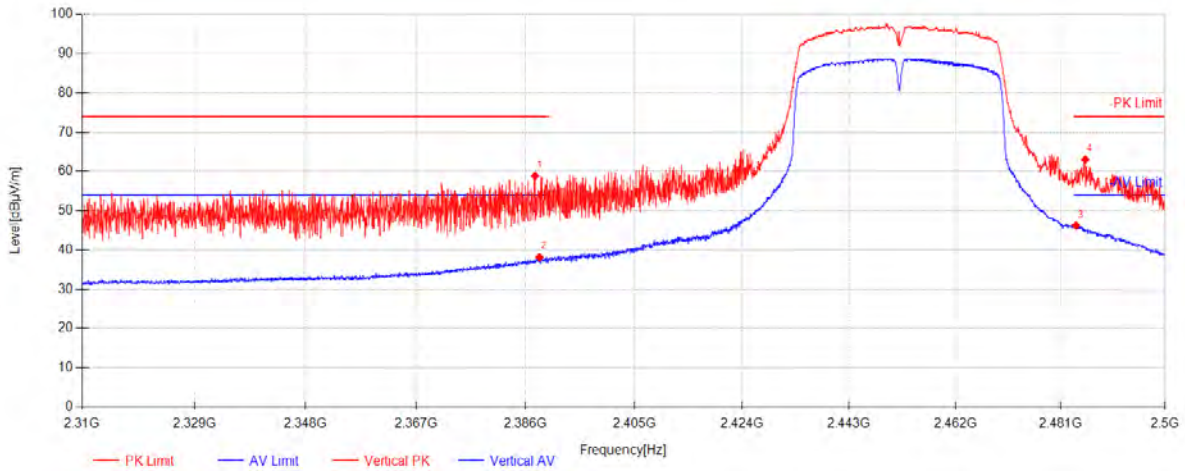


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802.11n40_Channel 09



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	2387.6533	54.97	27.43	-23.57	58.83	74.00	15.17	125	73	Vertical
2	2388.4333	34.28	27.43	-23.57	38.14	54.00	15.86	125	73	Vertical
3	2483.8	42.03	27.72	-23.54	46.20	54.00	7.80	125	73	Vertical
4	2485.48	58.90	27.72	-23.54	63.08	74.00	10.92	125	73	Vertical

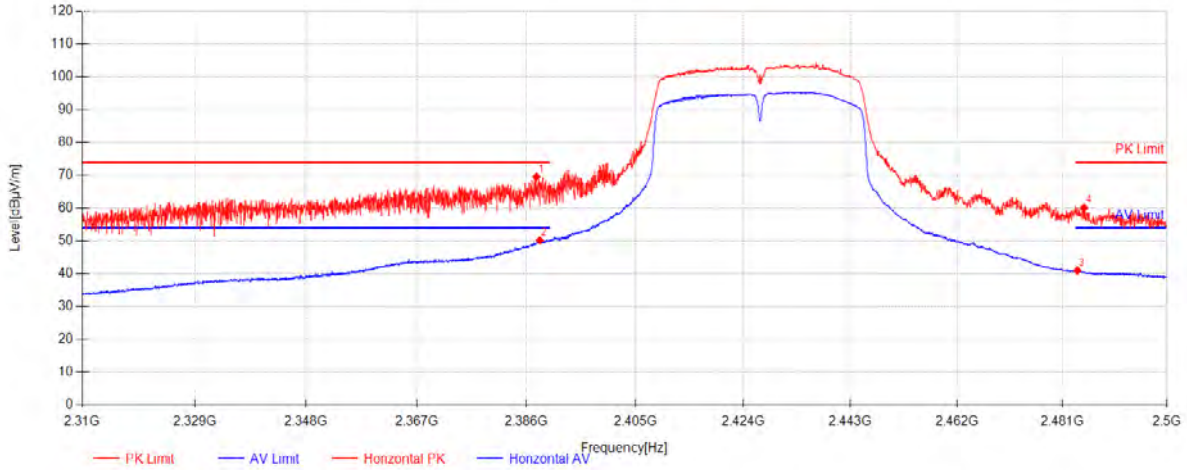


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802.11n40_Channel 04



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	65.65	27.43	-23.57	69.51	74.00	4.49	154	25	Horizontal
2	2388.3033	46.34	27.43	-23.57	50.20	54.00	3.80	154	25	Horizontal
3	2483.74	36.79	27.72	-23.54	40.96	54.00	13.04	154	25	Horizontal
4	2484.94	55.95	27.72	-23.54	60.13	74.00	13.87	154	25	Horizontal

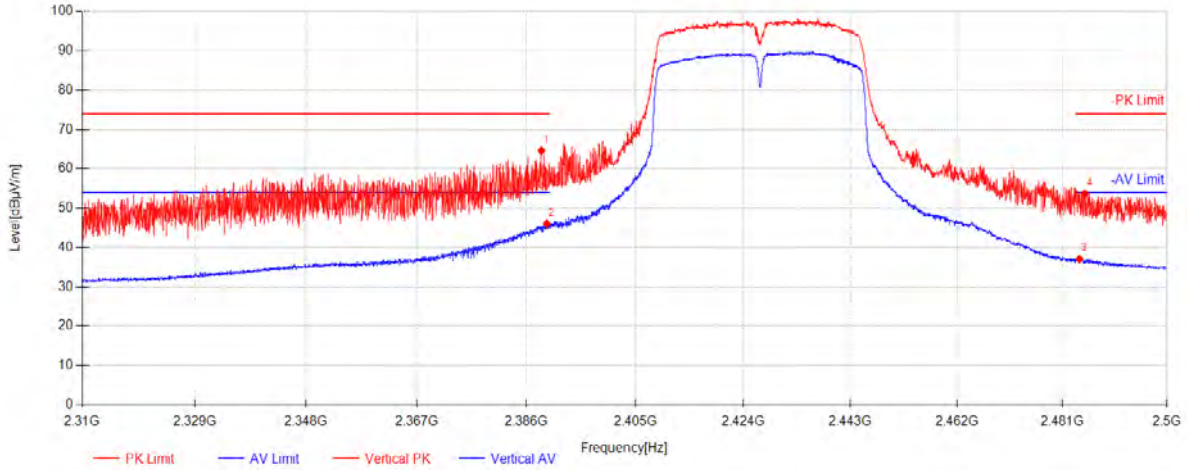


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802.11n40_Channel 04



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6067	60.73	27.43	-23.57	64.59	74.00	9.41	230	91	Vertical
2	2389.56	42.14	27.43	-23.57	46.00	54.00	8.00	230	91	Vertical
3	2484.1	32.90	27.72	-23.54	37.07	54.00	16.93	230	91	Vertical
4	2485.12	49.51	27.72	-23.54	53.69	74.00	20.31	230	91	Vertical

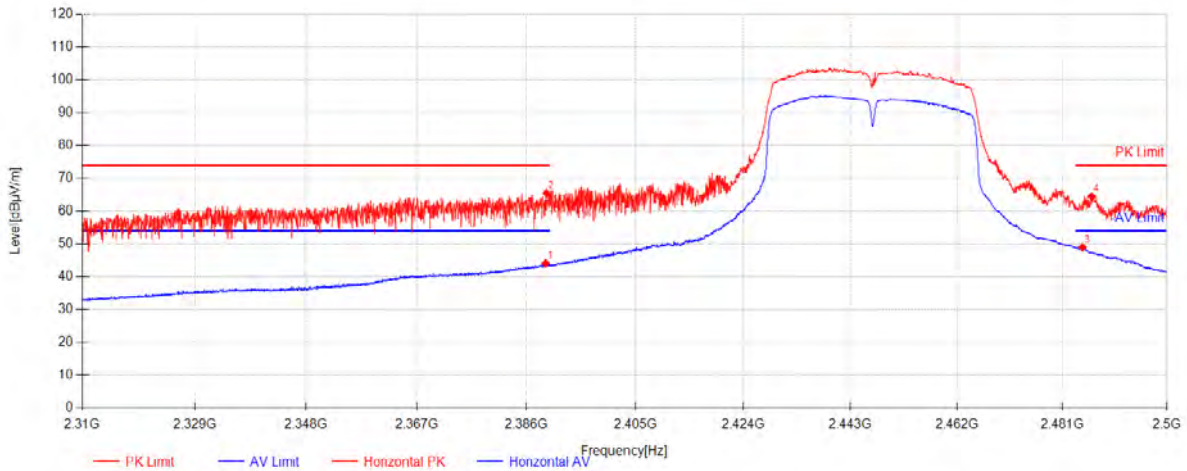


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802.11n40_Channel 08



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	40.23	27.43	-23.57	44.09	54.00	9.91	278	171	Horizontal
2	2389.4733	61.60	27.43	-23.57	65.46	74.00	8.54	278	171	Horizontal
3	2484.64	44.82	27.72	-23.54	48.99	54.00	5.01	278	171	Horizontal
4	2486.32	60.31	27.72	-23.54	64.49	74.00	9.51	278	171	Horizontal

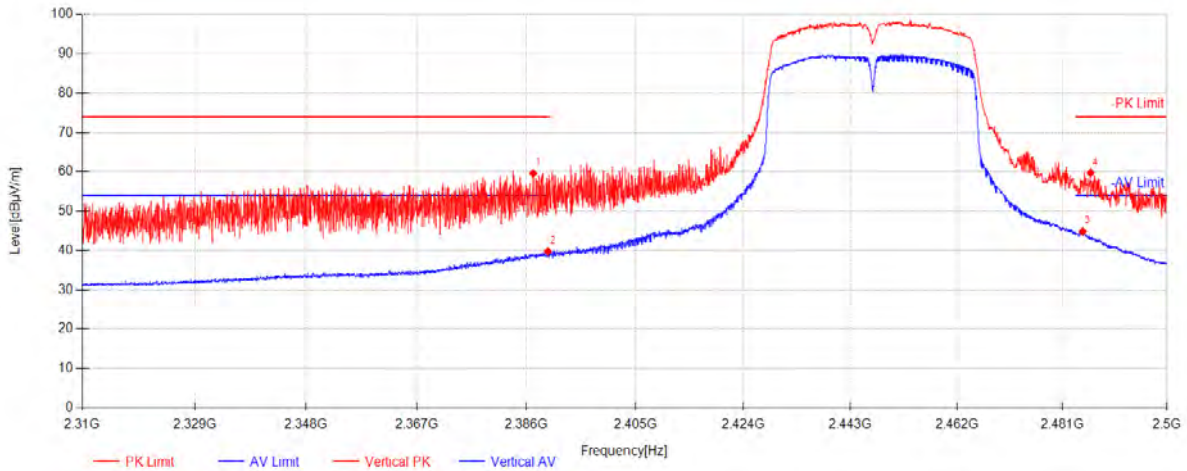


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802.11n40_Channel 08



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.1767	55.71	27.43	-23.57	59.57	74.00	14.43	111	267	Vertical
2	2389.7333	35.87	27.43	-23.57	39.73	54.00	14.27	111	267	Vertical
3	2484.7	40.64	27.72	-23.54	44.81	54.00	9.19	111	267	Vertical
4	2486.14	55.53	27.72	-23.54	59.71	74.00	14.29	111	267	Vertical

Remark:

1) 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:

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

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

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

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

---End of Report---



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