

Report No.: XEWM2303000130RG03
 Rev.: 01
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TEST REPORT

Application No.: XEWM2303000130RG
Applicant: KonnectONE Inc.
Address of Applicant: 40 Lake Bellevue, Suite 340, Bellevue, WA 98005
Manufacturer: KonnectONE Inc.
Address of Manufacturer: 40 Lake Bellevue, Suite 340, Bellevue, WA 98005
EUT Description: Moxee T2310
Model No.: T2310
Trade Mark: Moxee
FCC ID: 2APQU-T2310
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/10
Date of Test: 2023/04/14 to 2023/04/29
Date of Issue: 2023/05/09

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:

Peter Tan
 Regulatory Technical Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/05/09		Original

Prepared By	 <hr/> (Leah Chen) / Test Engineer
Checked By	 <hr/> (Andy Yao) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	KonnectONE Inc.
Address of Applicant:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005
Manufacturer:	KonnectONE Inc.
Address of Manufacturer:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Ken Liu

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

<p>•A2LA (Certificate No. 4854.01) SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.</p> <p>• Innovation, Science and Economic Development Canada SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0095. IC#: 25613.</p> <p>• FCC –Designation Number: CN1337 SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1337. Test Firm Registration Number: 917410</p>



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3.4 General Description of EUT

EUT Description:	Moxee T2310	
Model No.:	T2310	
Trade Mark:	Moxee	
Hardware Version:	V1.0	
Software Version:	Moxee_T2310_13.0_06	
IMEI:	RF Conducted	350119040005906
	RSE & AC power line	350119040005898
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
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	
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
	<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx
Antenna Type:	PIFA Antenna	
Antenna Gain:	-0.52dBi(Ant2)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.4dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Remark:
 In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



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3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests	
Relative Humidity	40-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 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 PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -0.52dBi (Ant2). *</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement.</p>		



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

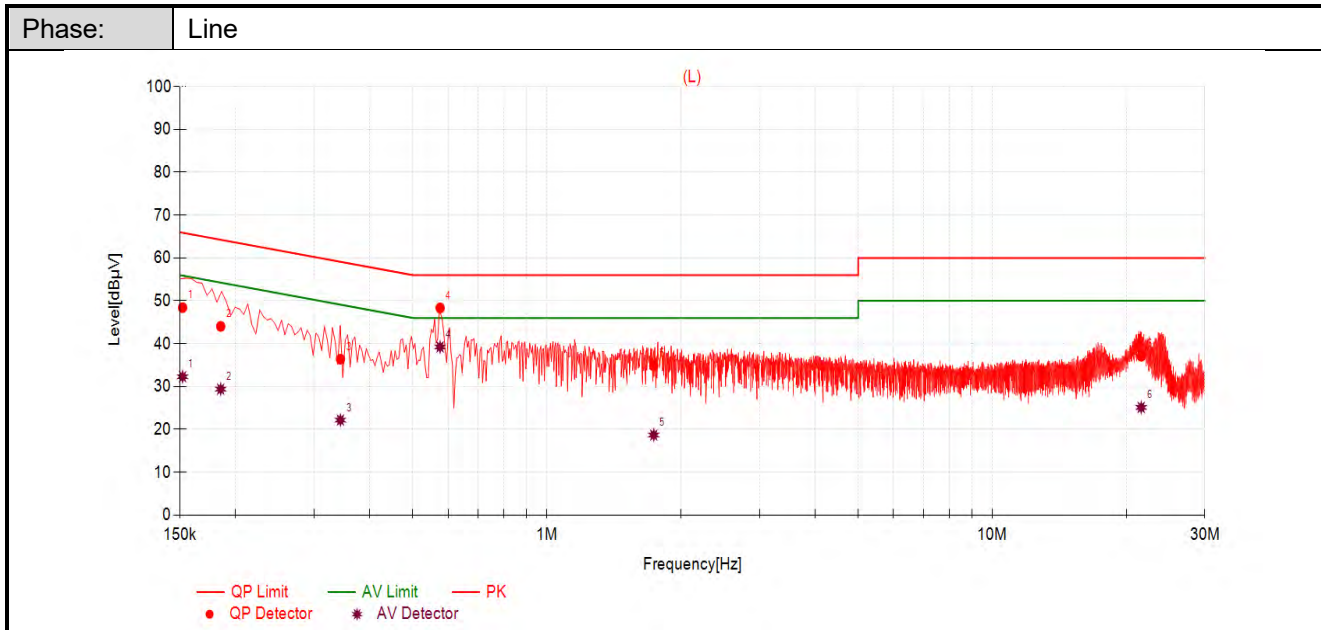


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Measurement Data

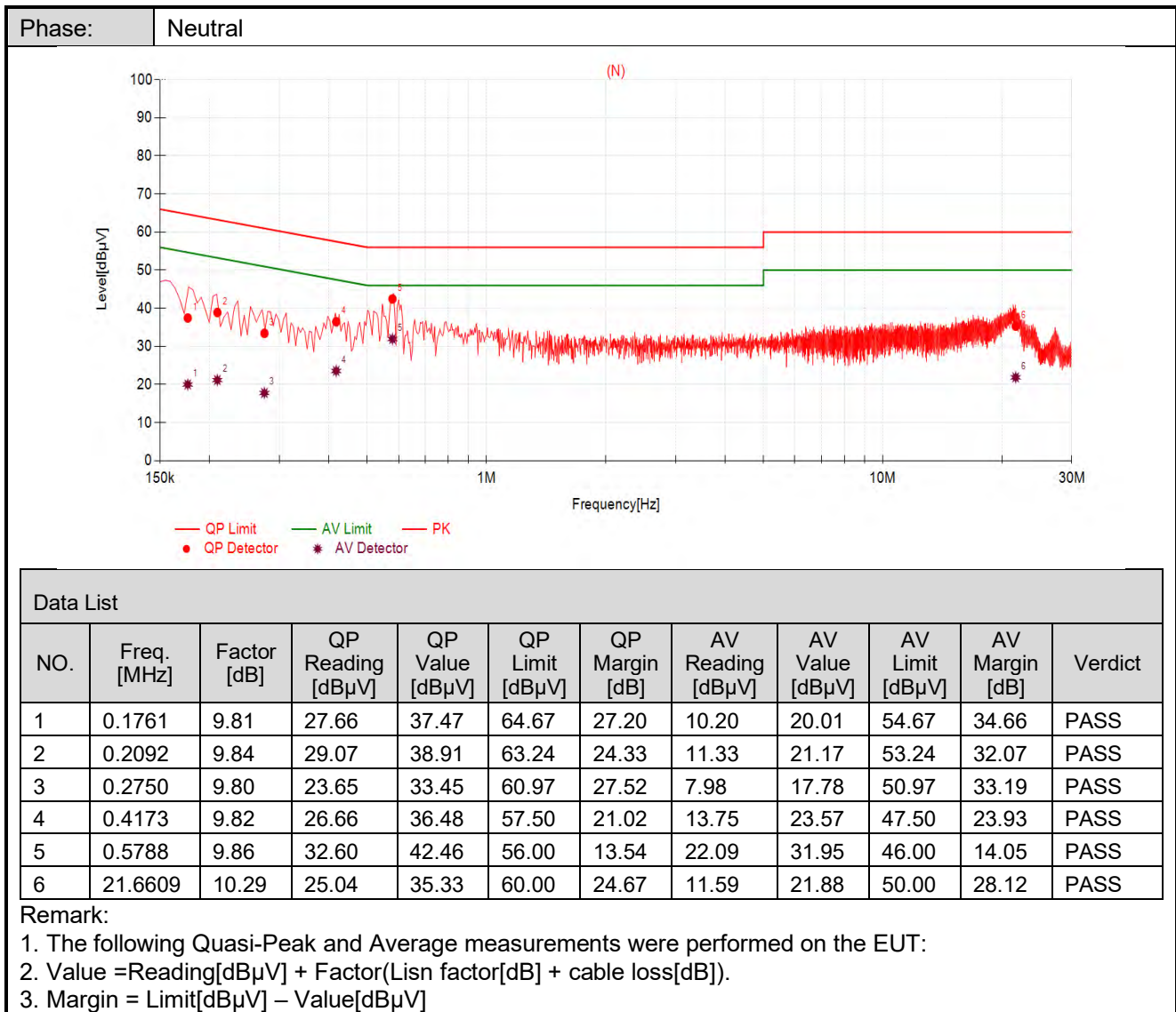
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data List											
NO.	Freq. [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	0.1520	9.86	38.57	48.43	65.89	17.46	22.43	32.29	55.89	23.60	PASS
2	0.1851	9.85	34.19	44.04	64.25	20.21	19.55	29.40	54.25	24.85	PASS
3	0.3438	9.89	26.50	36.39	59.11	22.72	12.28	22.17	49.11	26.94	PASS
4	0.5755	9.91	38.45	48.36	56.00	7.64	29.33	39.24	46.00	6.76	PASS
5	1.7373	9.84	24.99	34.83	56.00	21.17	8.85	18.69	46.00	27.31	PASS
6	21.6019	10.27	26.81	37.08	60.00	22.92	14.86	25.13	50.00	24.87	PASS

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





Remark:

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



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4.3 Duty Cycle

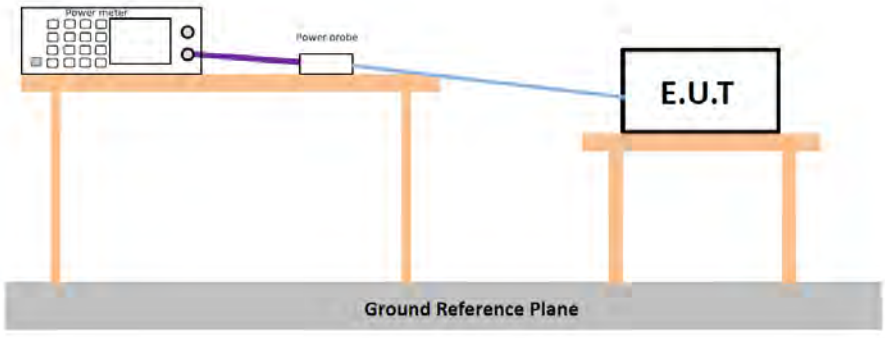
The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	3MHz	Peak	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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Test Setup:

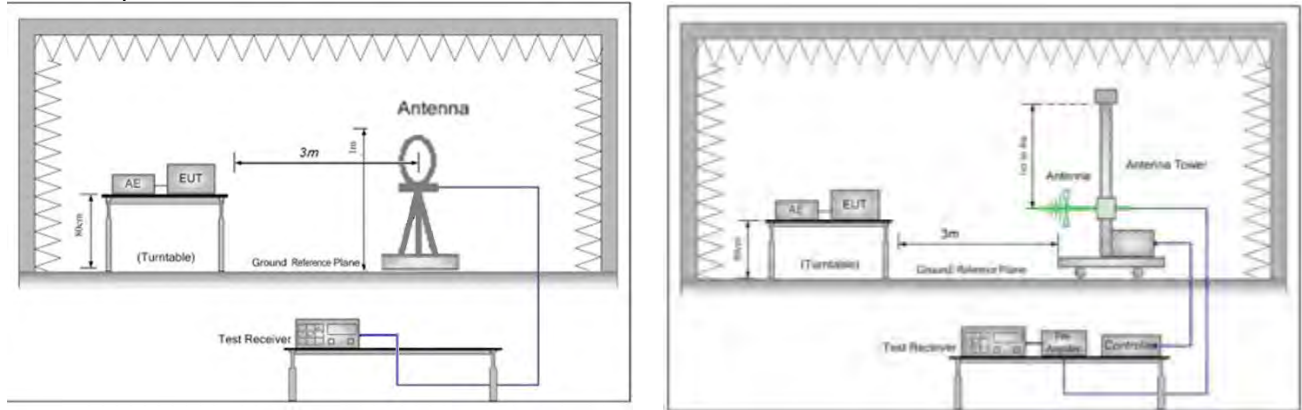


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

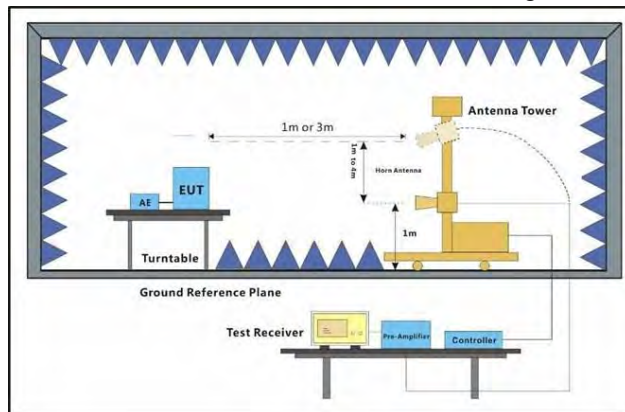


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test



	<p>frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</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 Y 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>
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>





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Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
Above 1GHz		54.0	Average Value
		74.0	Peak Value

Test Setup:

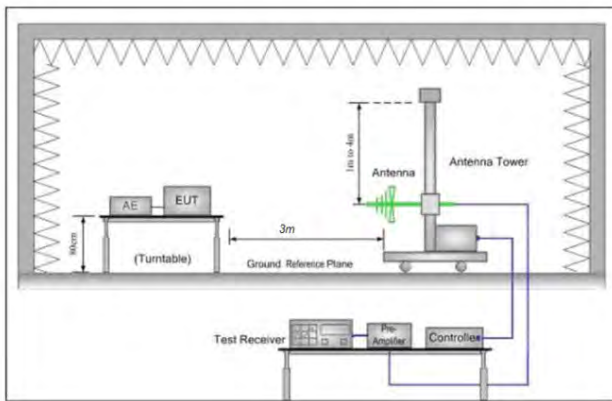


Figure 1. 30MHz to 1GHz

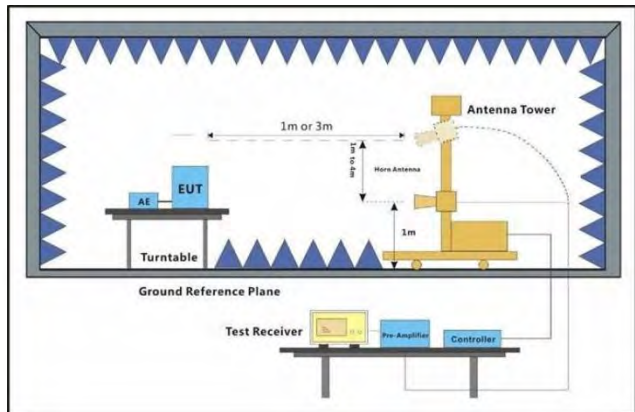


Figure 2. Above 1 GHz



<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 Y axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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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	Radio Frequency	$\pm 7.25 \times 10^{-8}$ GHz
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 0.2\%$
4	RF conducted power	± 0.21 dB
5	RF power density	± 2.84 dB
6	Conducted Spurious emissions	± 0.75 dB
7	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
8	Radiated Emission	± 4.6 dB (9kHz to 30MHz)
		± 4.9 dB (30MHz to 1GHz)
		± 4.9 dB (1GHz to 6GHz)
		± 4.7 dB (6GHz to 18GHz)
		± 5.26 dB (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 System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/02/16	2024/02/15
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2022/09/18	2023/09/17

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d)	Cal. Due date (yyyy/mm/d)
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2022/05/24	2023/05/23
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2022/05/24	2023/05/23
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2023/05/25



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant2	2412	7.640	2408.440	2416.080	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	7.560	2458.440	2466.000	0.5	PASS
11g	Ant2	2412	14.200	2405.680	2419.880	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	14.480	2455.680	2470.160	0.5	PASS
11n20SISO	Ant2	2412	14.880	2405.680	2420.560	0.5	PASS
		2437	15.680	2428.840	2444.520	0.5	PASS
		2462	16.080	2454.440	2470.520	0.5	PASS



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Test Graphs



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11b_Ant2_2462



11g_Ant2_2412



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11g_Ant2_2437



11g_Ant2_2462



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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437



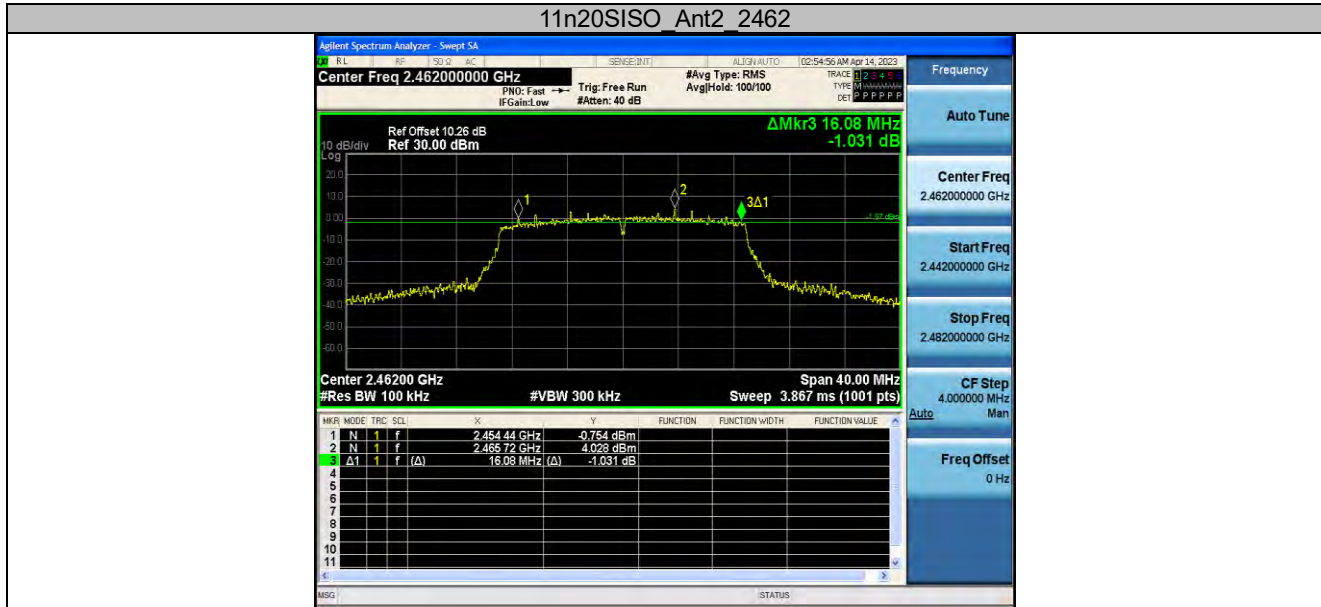
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11n20SISO_Ant2_2462



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant2	2412	12.758	2405.8936	2418.6516	Reporting only
		2437	12.806	2430.3828	2443.1888	
		2462	12.889	2455.6617	2468.5507	
11g	Ant2	2412	16.983	2403.8210	2420.8040	
		2437	17.001	2428.2421	2445.2431	
		2462	16.888	2453.7088	2470.5968	
11n20SISO	Ant2	2412	17.812	2403.2923	2421.1043	
		2437	17.837	2427.9035	2445.7405	
		2462	17.891	2453.1356	2471.0266	



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Test Graphs

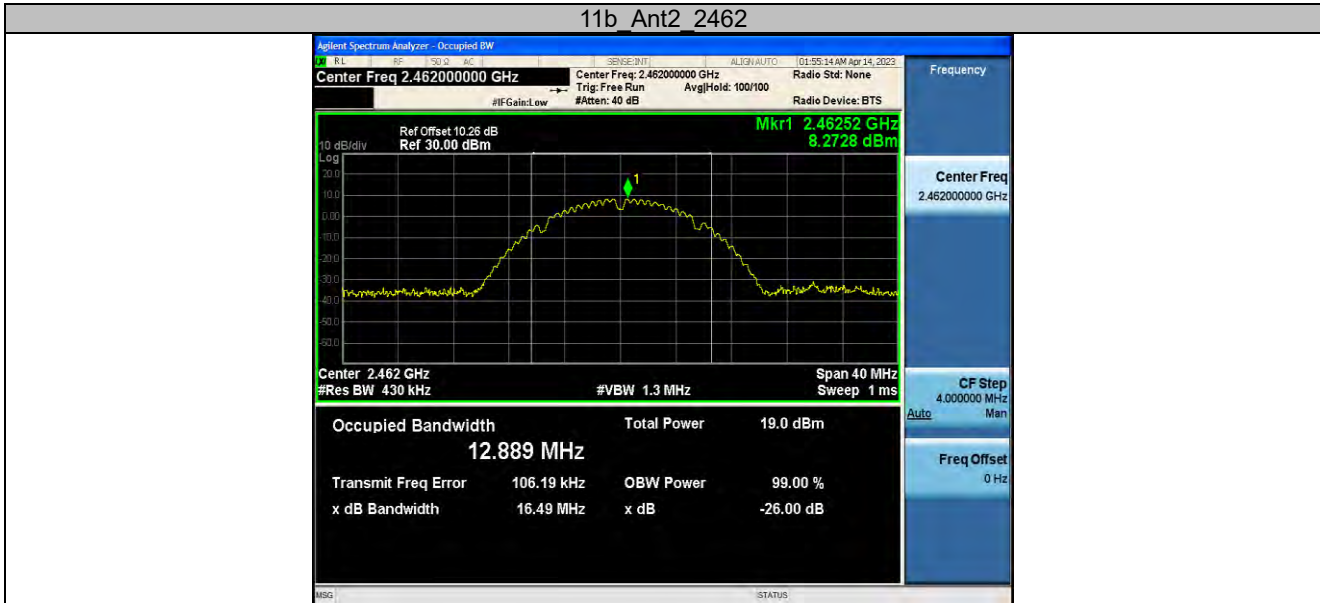


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11b_Ant2_2462



11g_Ant2_2412



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11g_Ant2_2437



11g_Ant2_2462



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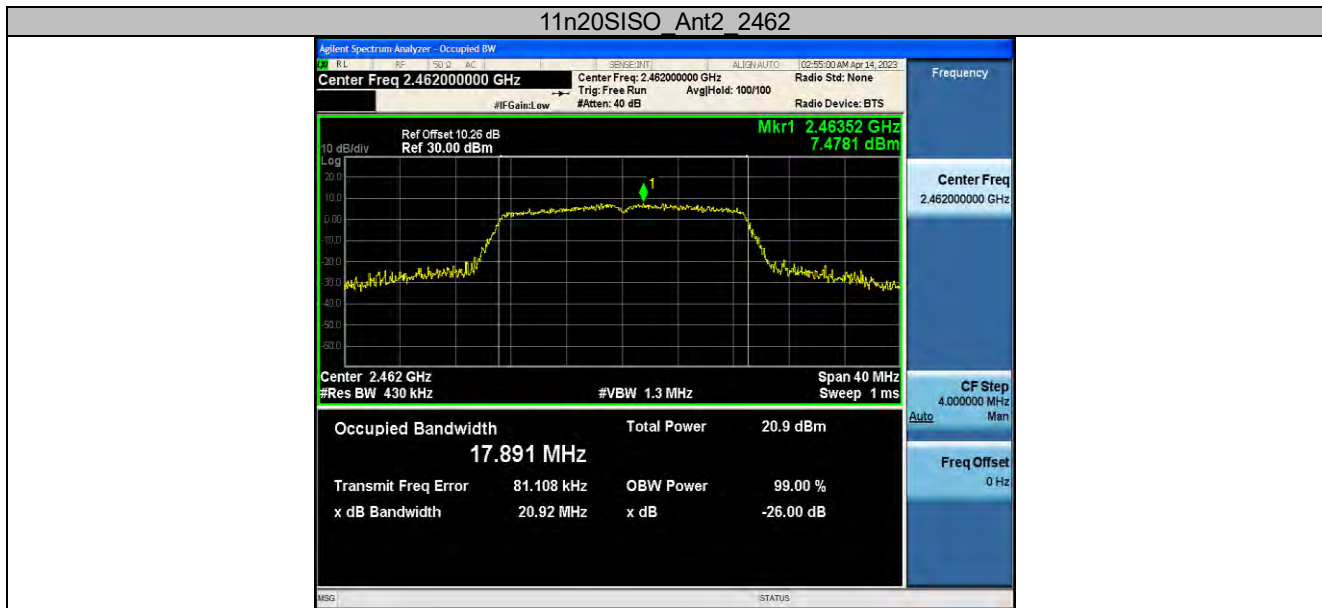
11n20SISO_Ant2_2412



11n20SISO_Ant2_2437



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**Maximum conducted output power
 Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant2	2412	17.12	≤30.00	PASS
		2437	17.34	≤30.00	PASS
		2462	17.43	≤30.00	PASS
11g	Ant2	2412	17.36	≤30.00	PASS
		2437	17.45	≤30.00	PASS
		2462	17.38	≤30.00	PASS
11n20SISO	Ant2	2412	16.43	≤30.00	PASS
		2437	16.55	≤30.00	PASS
		2462	16.45	≤30.00	PASS



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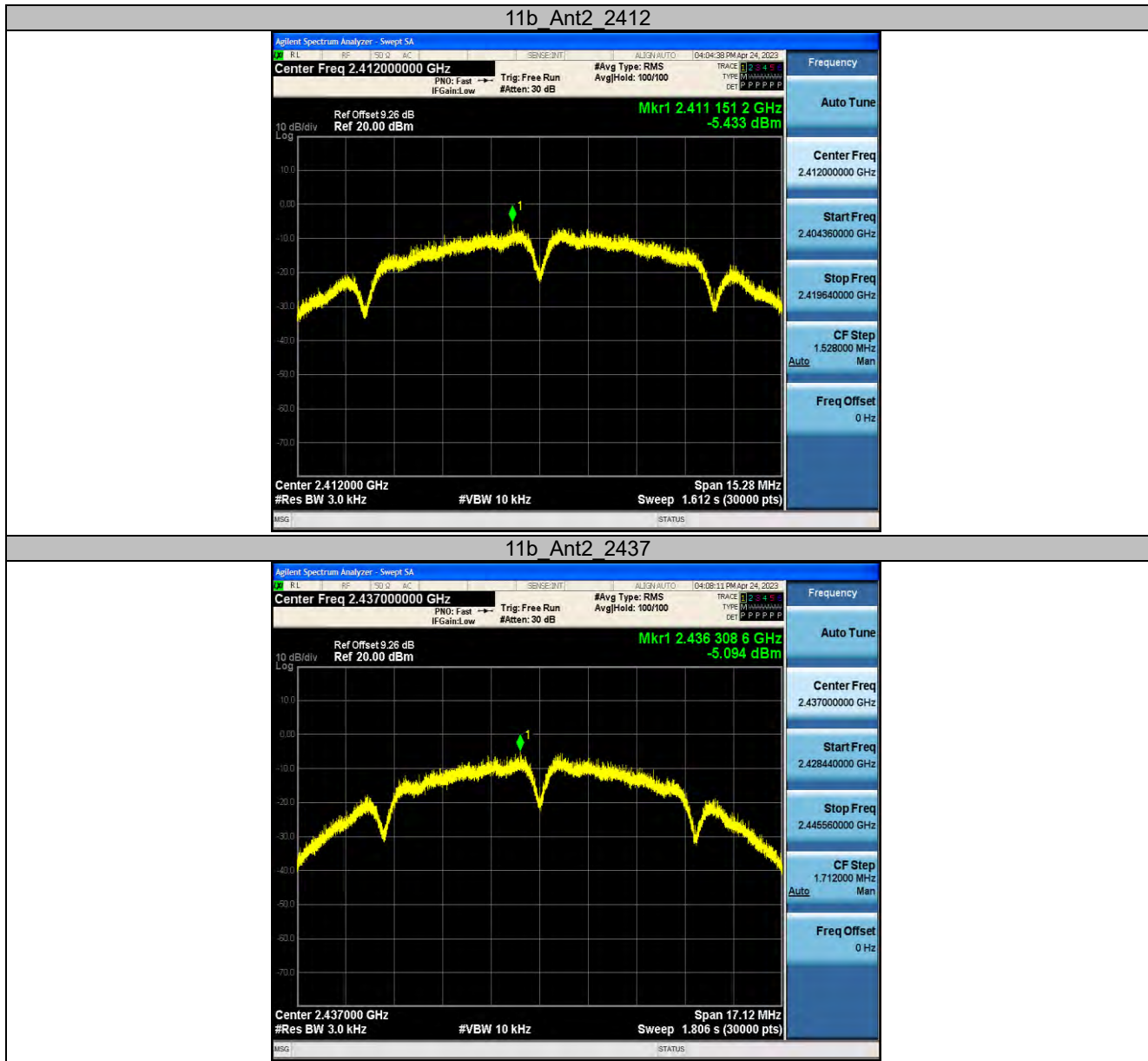
**Maximum power spectral density
 Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant2	2412	-5.43	≤8.00	PASS
		2437	-5.09	≤8.00	PASS
		2462	-5.43	≤8.00	PASS
11g	Ant2	2412	-17.09	≤8.00	PASS
		2437	-15.64	≤8.00	PASS
		2462	-15.67	≤8.00	PASS
11n20SISO	Ant2	2412	-19.07	≤8.00	PASS
		2437	-18.38	≤8.00	PASS
		2462	-18.77	≤8.00	PASS



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Test Graphs



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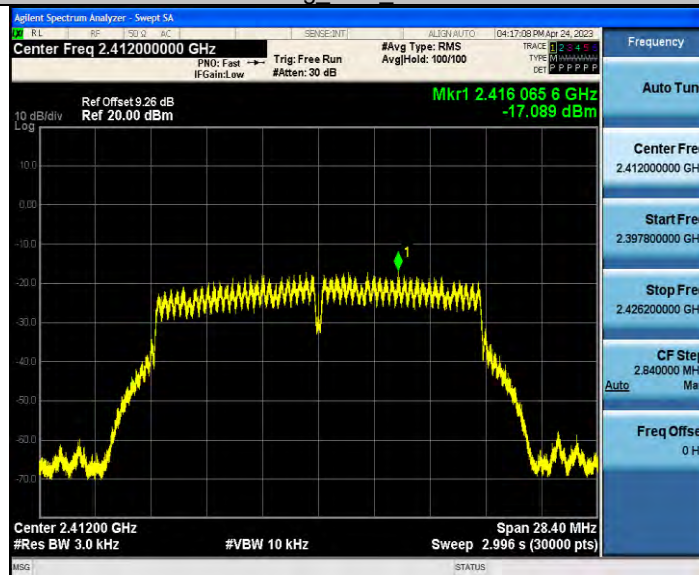
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11b Ant2 2462

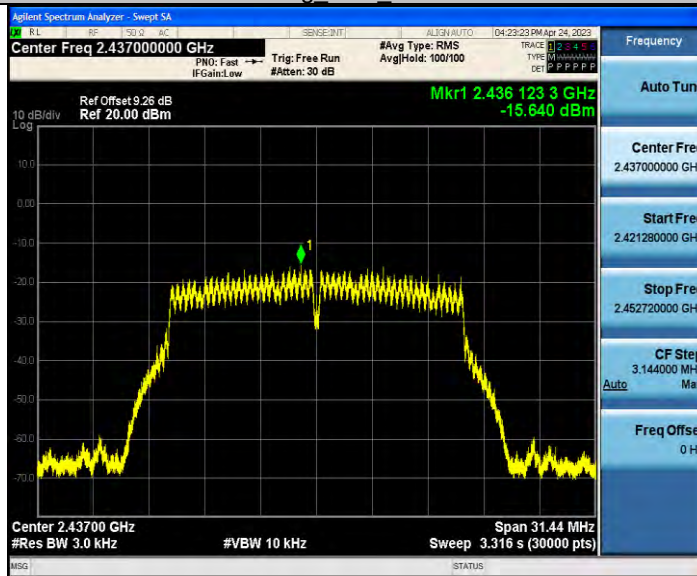


11g Ant2 2412

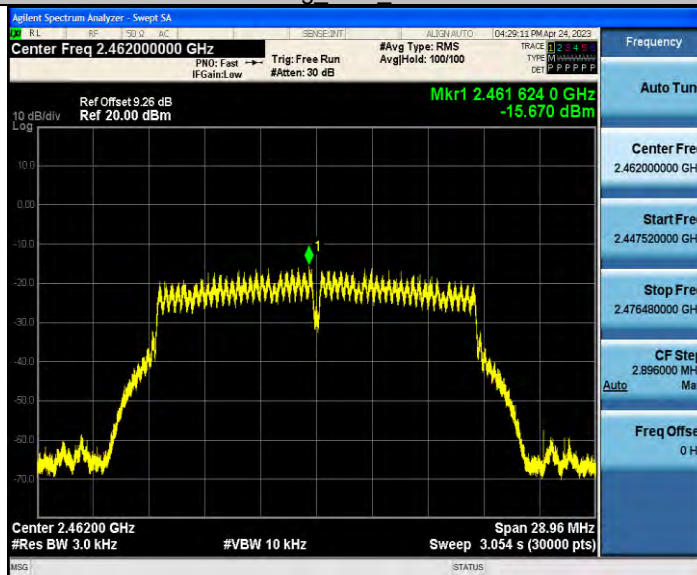


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11g Ant2 2437

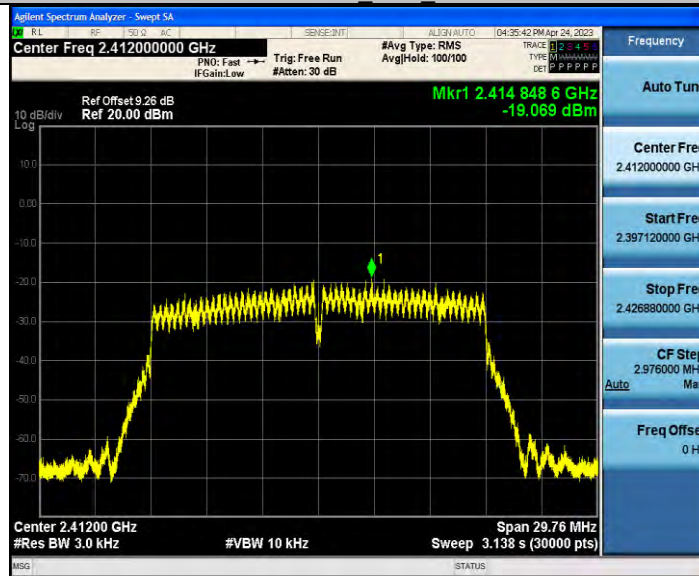


11g Ant2 2462

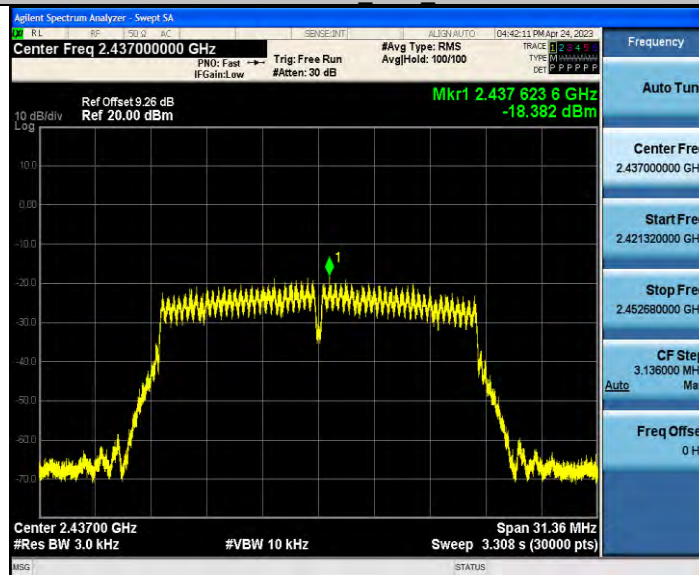


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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437

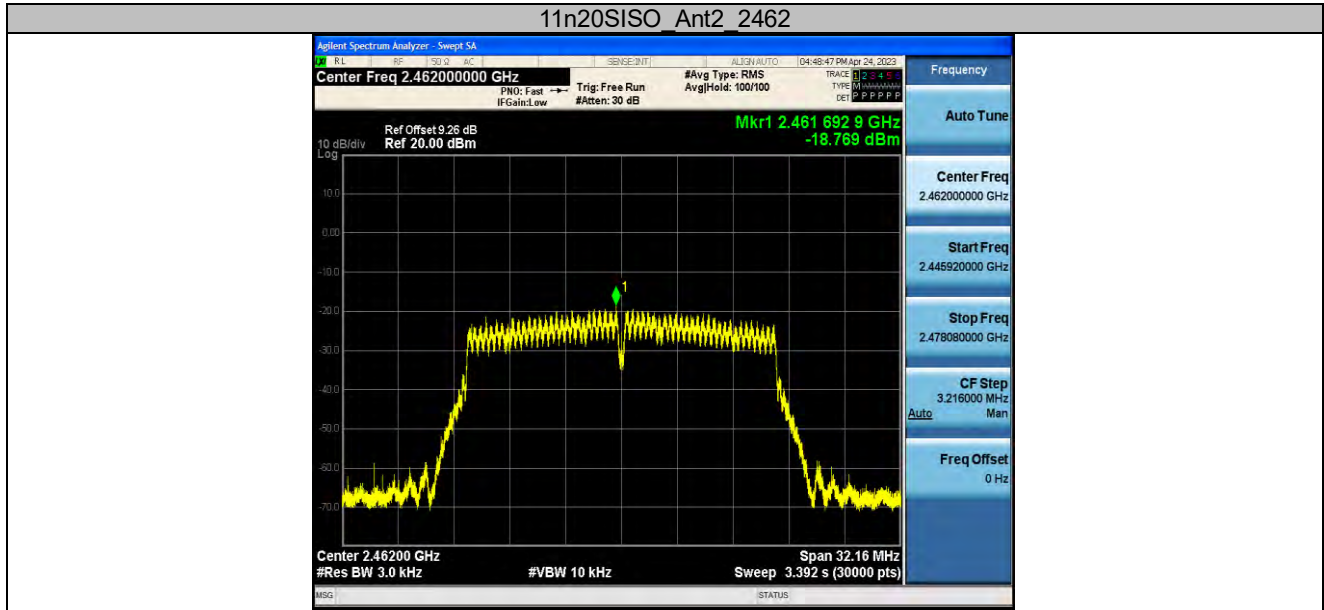


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Band edge measurements
Test Result

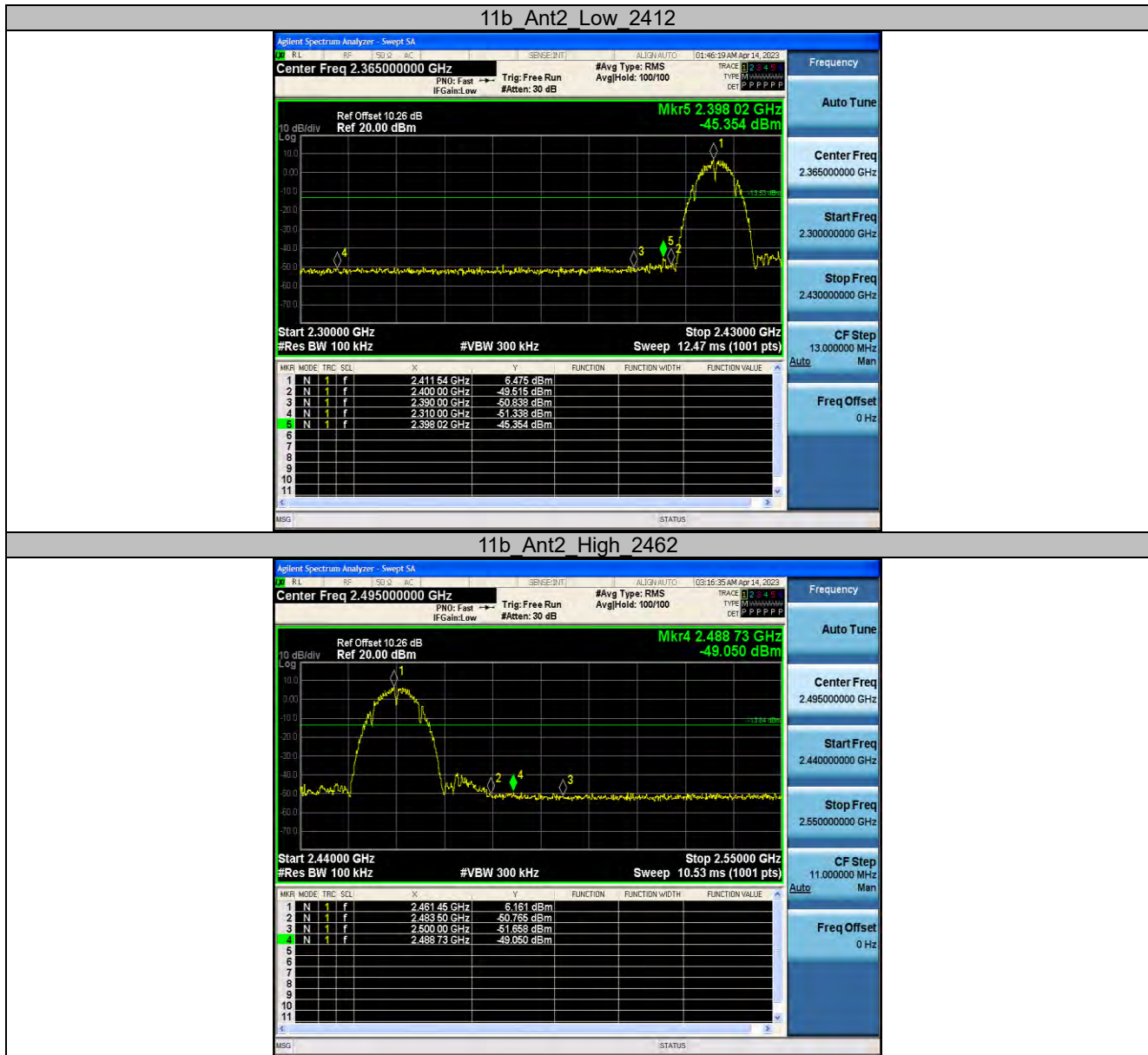
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant2	Low	2412	6.48	-45.35	≤-13.53	PASS
		High	2462	6.16	-49.05	≤-13.84	PASS
11g	Ant2	Low	2412	-3.19	-48.97	≤-23.19	PASS
		High	2462	-2.30	-48.79	≤-22.3	PASS
11n20SISO	Ant2	Low	2412	-5.10	-49.33	≤-25.1	PASS
		High	2462	-5.28	-48.93	≤-25.28	PASS



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Test Graphs

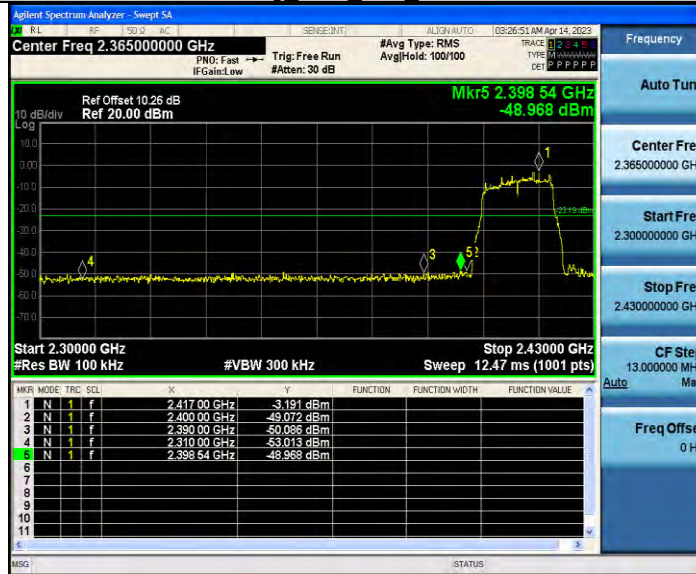


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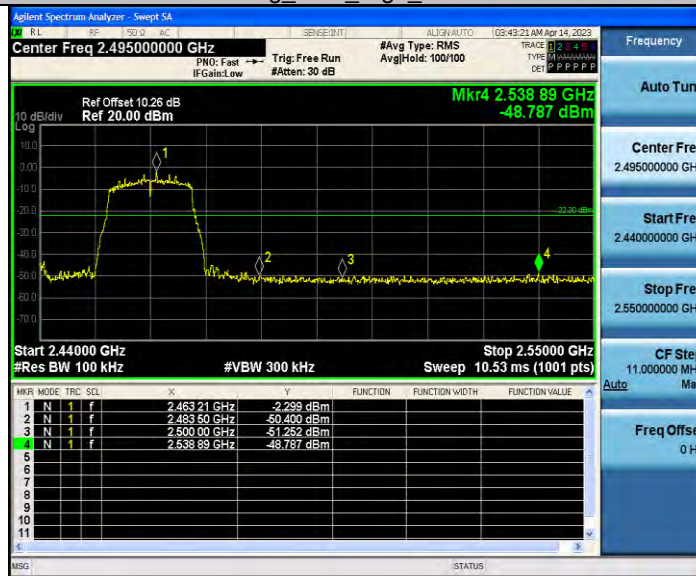
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11g_Ant2_Low_2412



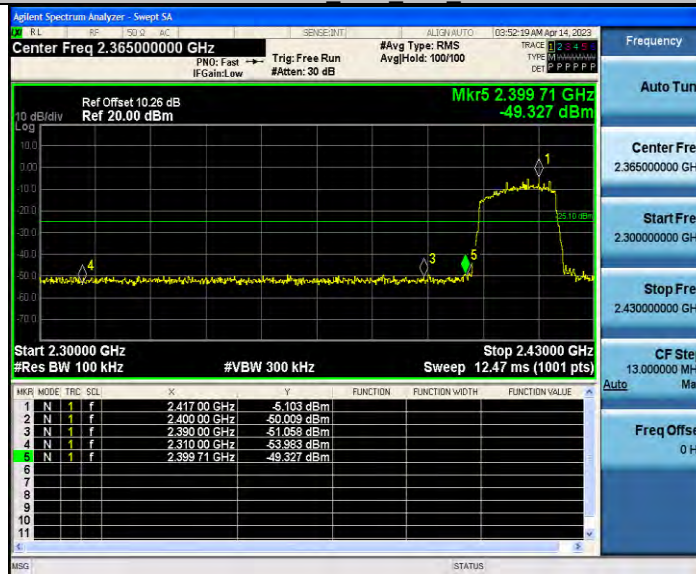
11g_Ant2_High_2462



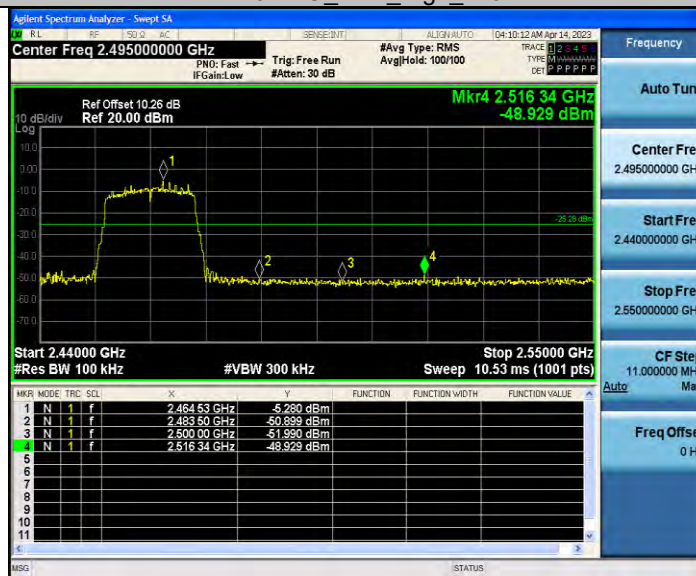
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11n20SISO_Ant2_Low_2412



11n20SISO_Ant2_High_2462



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Conducted Spurious Emission Test Result

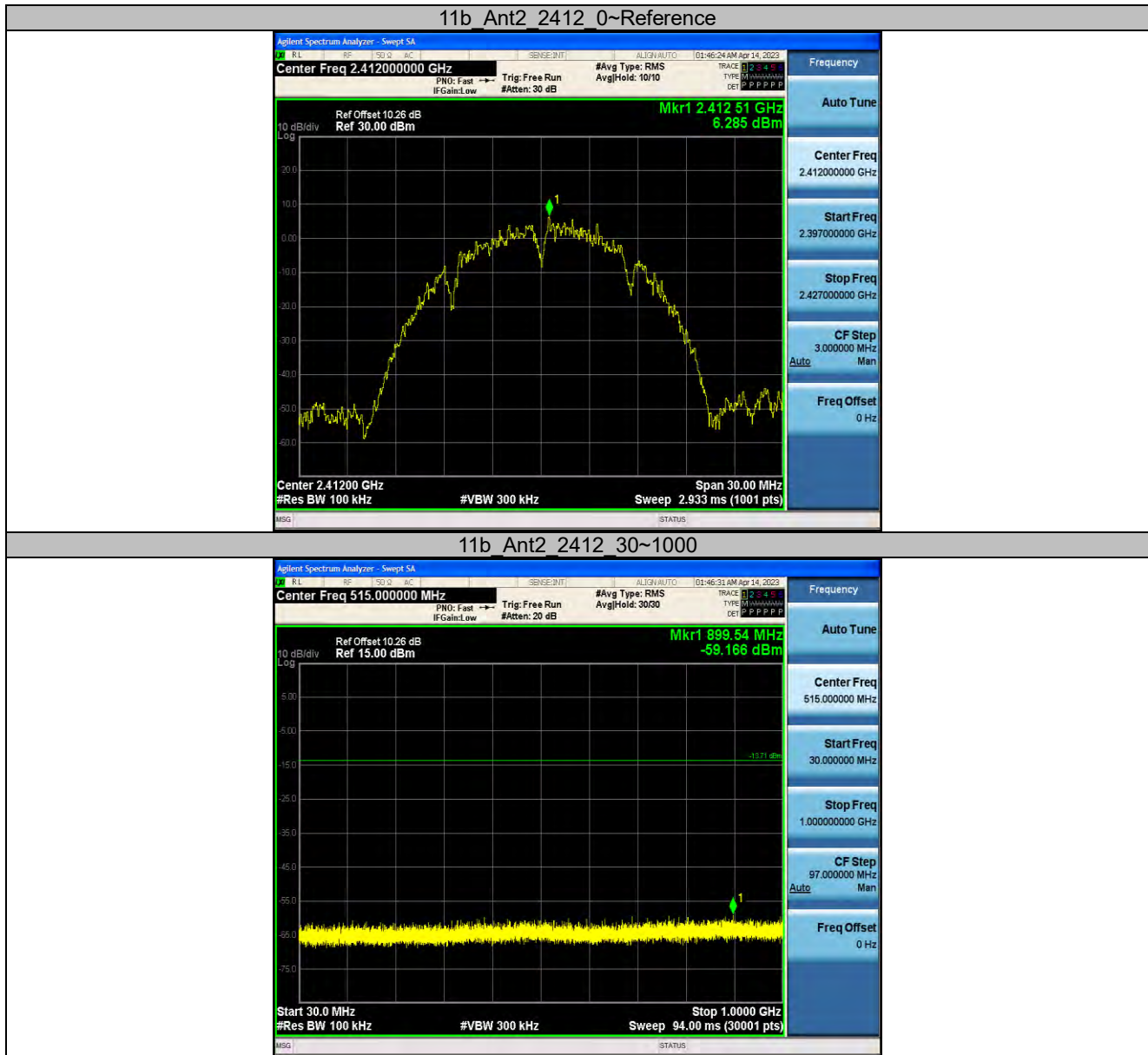
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant2	2412	Reference	6.29	6.29	---	PASS
			30~1000	6.29	-59.17	≤-13.71	PASS
			1000~26500	6.29	-45.37	≤-13.71	PASS
		2437	Reference	6.59	6.59	---	PASS
			30~1000	6.59	-59.16	≤-13.41	PASS
			1000~26500	6.59	-44.41	≤-13.41	PASS
		2462	Reference	7.03	7.03	---	PASS
			30~1000	7.03	-58.59	≤-12.97	PASS
			1000~26500	7.03	-44.92	≤-12.97	PASS
11g	Ant2	2412	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-59.46	≤-26.68	PASS
			1000~26500	-6.68	-44.34	≤-26.68	PASS
		2437	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-58.85	≤-25.24	PASS
			1000~26500	-5.24	-44.91	≤-25.24	PASS
		2462	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-59.62	≤-24.83	PASS
			1000~26500	-4.83	-44.79	≤-24.83	PASS
11n20SISO	Ant2	2412	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-59.29	≤-25.04	PASS
			1000~26500	-5.04	-44.38	≤-25.04	PASS
		2437	Reference	-6.25	-6.25	---	PASS
			30~1000	-6.25	-58.66	≤-26.25	PASS
			1000~26500	-6.25	-45.05	≤-26.25	PASS
		2462	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-58.89	≤-25.1	PASS
			1000~26500	-5.10	-44.85	≤-25.1	PASS



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Test Graphs



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11b_Ant2_2412_1000~26500



11b_Ant2_2437_0~Reference



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11b_Ant2_2437_30~1000



11b_Ant2_2437_1000~26500

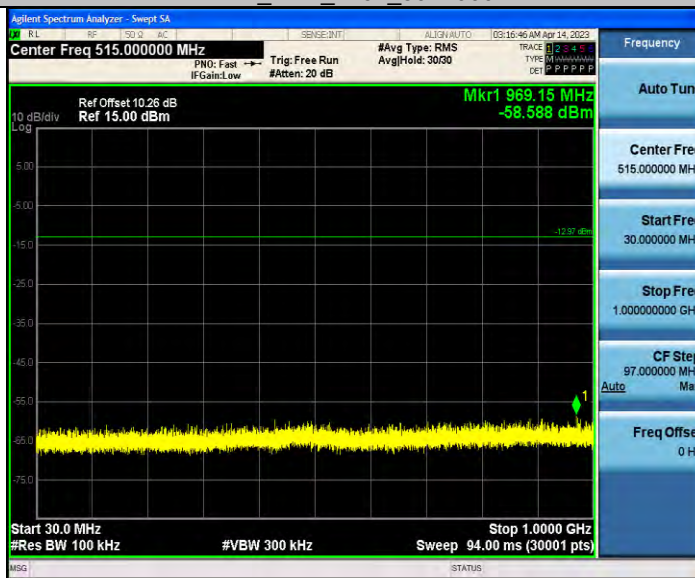


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11b_Ant2_2462_0~Reference



11b_Ant2_2462_30~1000



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11b_Ant2_2462_1000~26500



11g_Ant2_2412_0~Reference

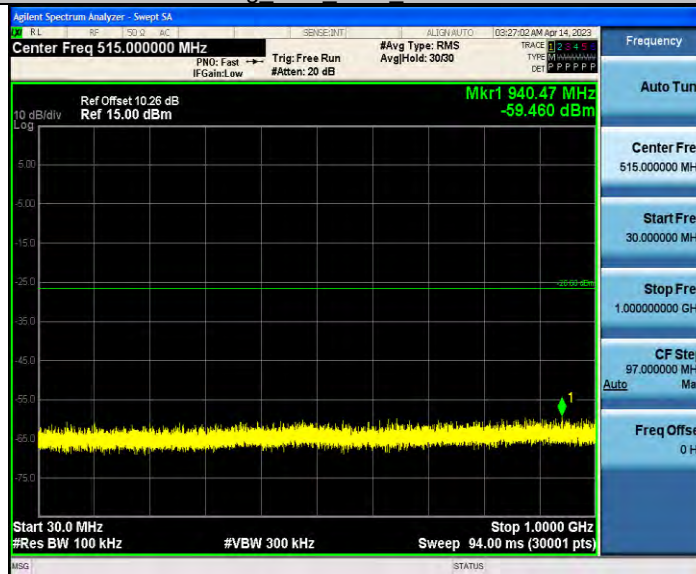


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11g_Ant2_2412_1000~26500



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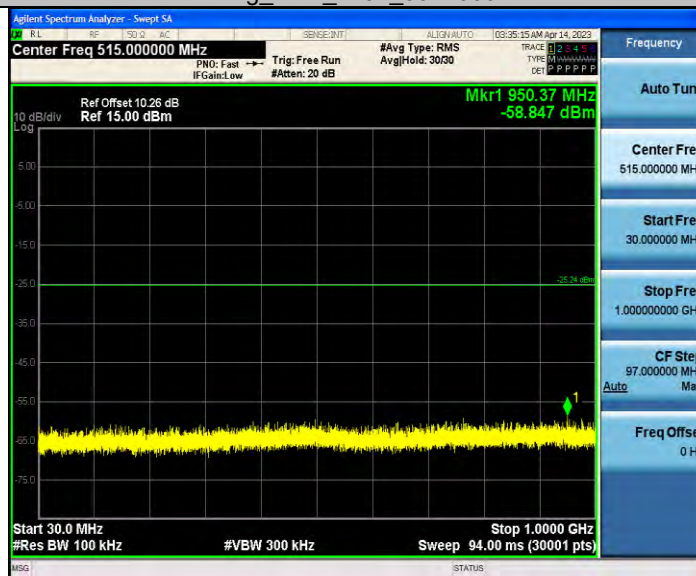
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11g_Ant2_2437_1000~26500



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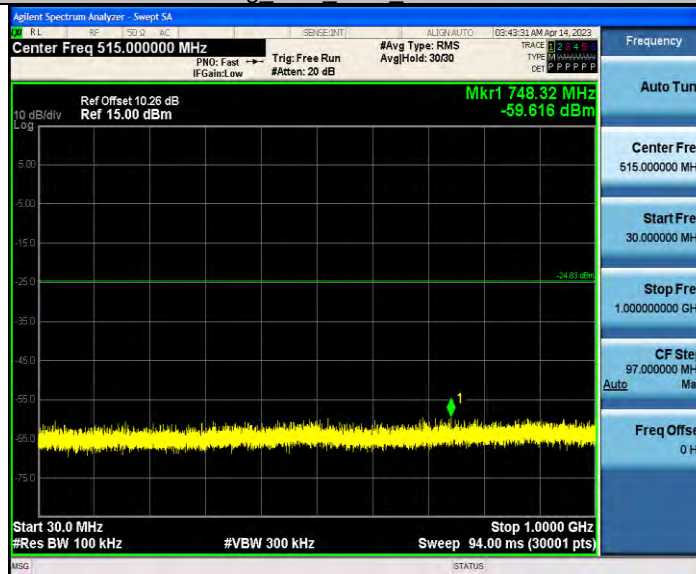


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11g_Ant2_2462_30~1000



11g_Ant2_2462_1000~26500



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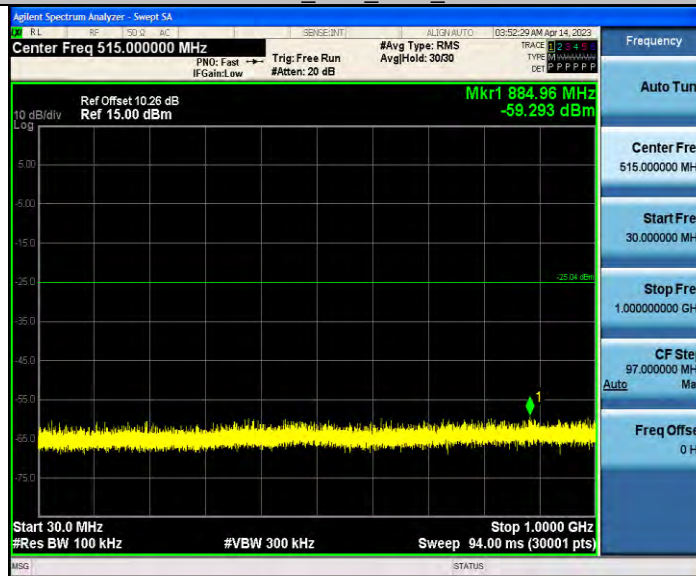
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11n20SISO Ant2 2412 0~Reference



11n20SISO Ant2 2412 30~1000



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11n20SISO_Ant2_2412_1000~26500

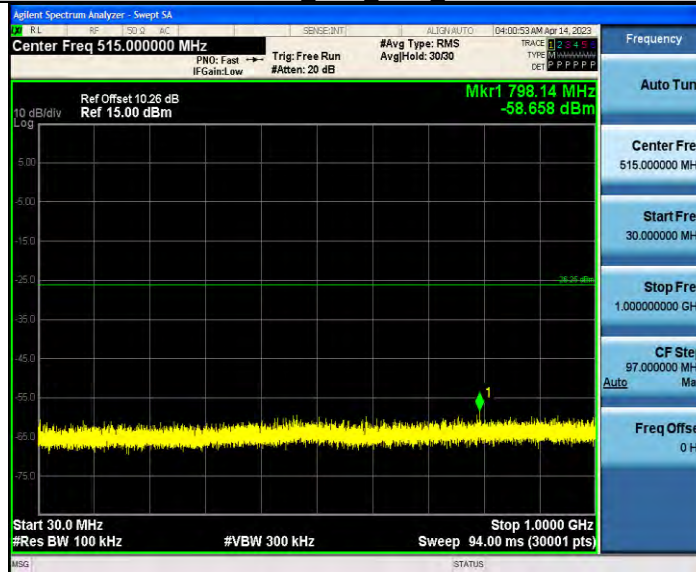


11n20SISO_Ant2_2437_0~Reference



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11n20SISO_Ant2_2437_30~1000



11n20SISO_Ant2_2437_1000~26500



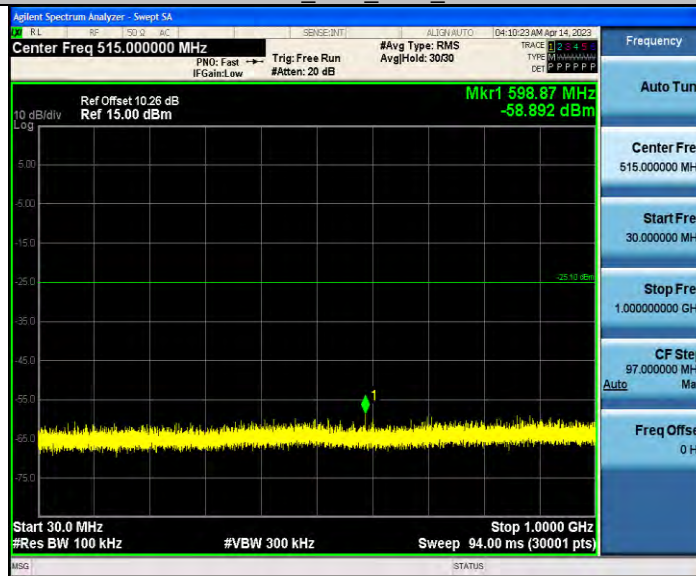
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11n20SISO Ant2_2462_0~Reference

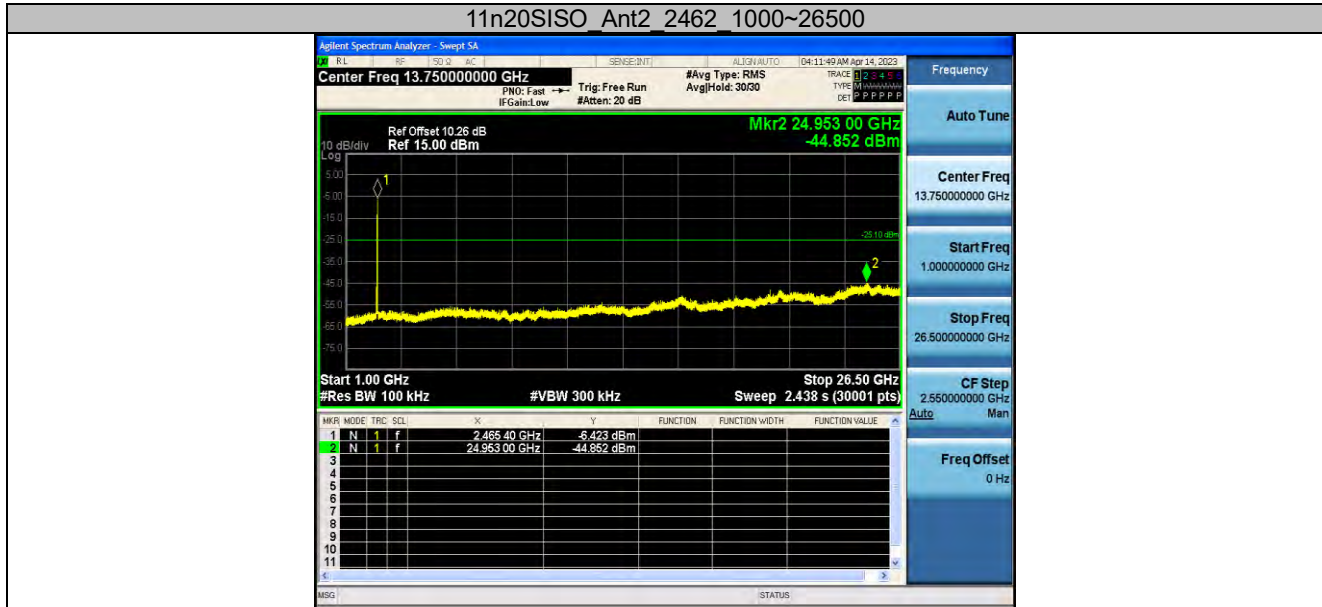


11n20SISO_Ant2_2462_30~1000



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11n20SISO Ant2 2462 1000-26500



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Report No.: XEWM2303000130RG03
 Rev.: 01
 Page: 70 of 119

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant2	2412	8.39	8.43	99.53	0.02
11g	Ant2	2412	1.39	1.43	97.20	0.12
11n20SISO	Ant2	2412	1.30	1.35	96.30	0.16

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.39	8.43	99.53	0.11919	10Hz*
11g	1.39	1.43	97.20	0.71942	0.75KHz
11n20SISO	1.30	1.35	96.30	0.76923	0.82KHz

*Duty cycle > 98% VBW setting=10Hz

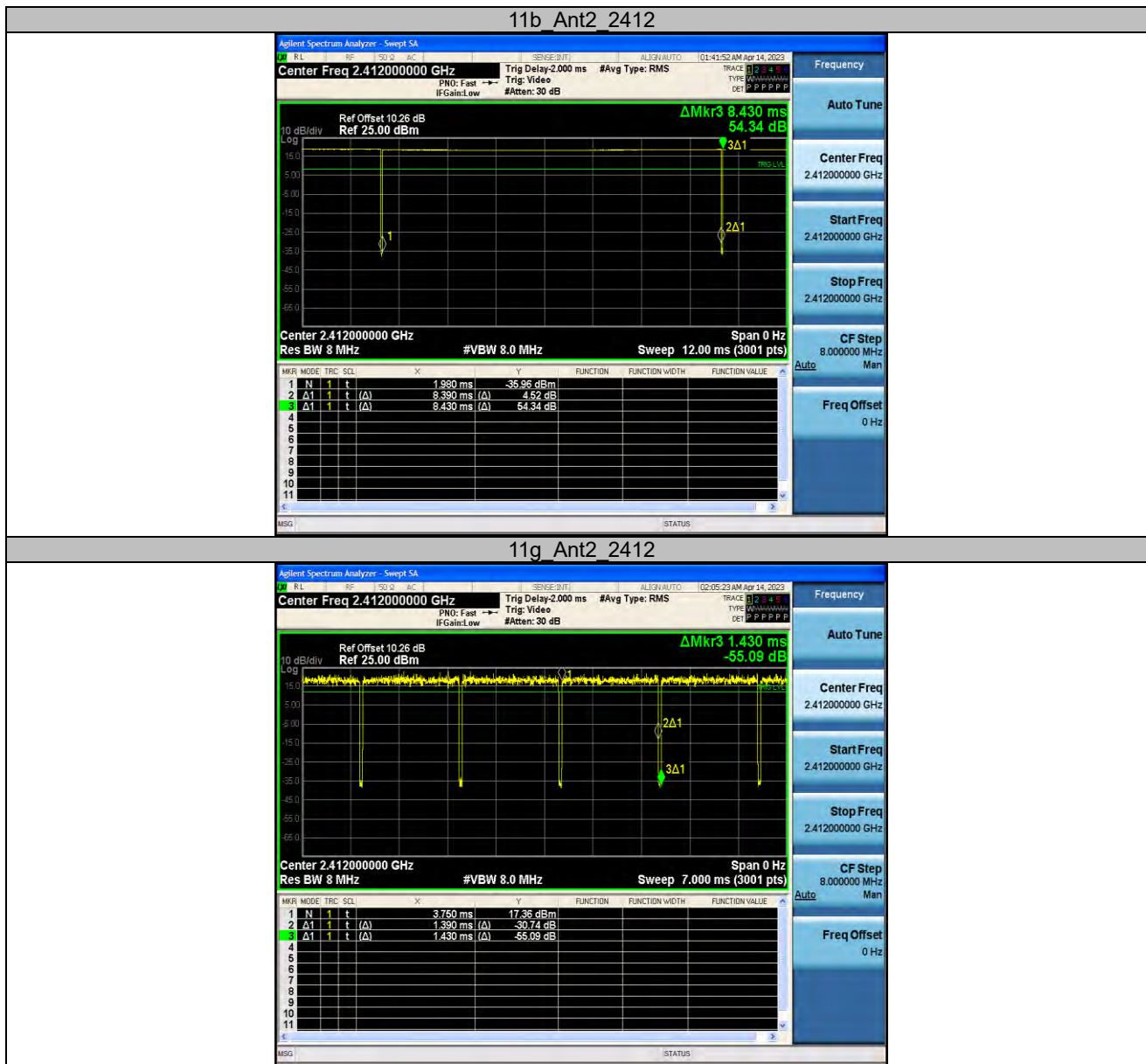


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Test Graphs

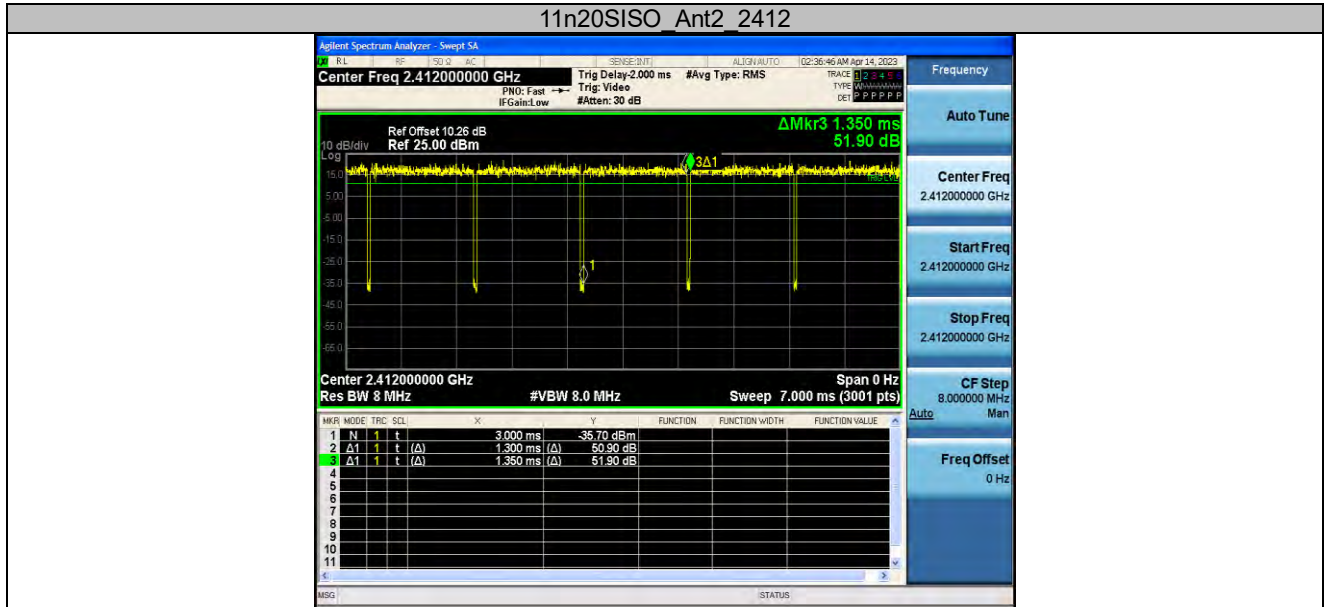


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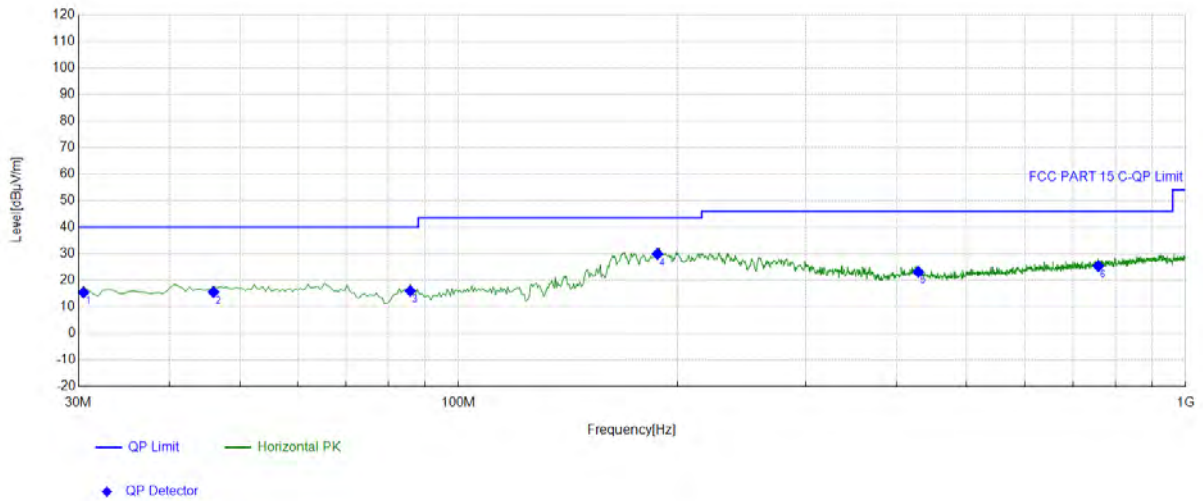
11n20SISO_Ant2_2412



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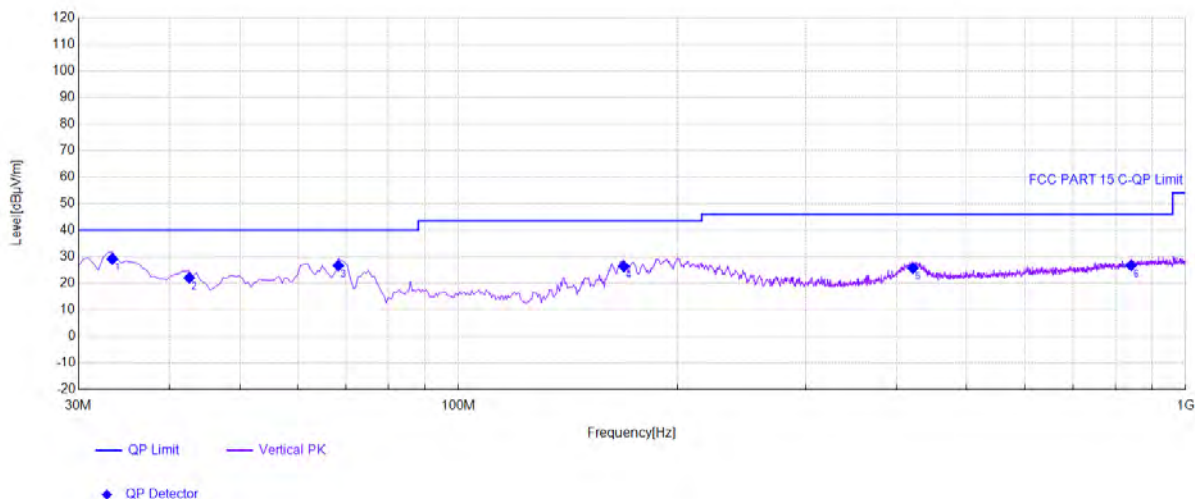
Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode: 802.11b_Channel 11



Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.4852	11.10	-28.02	32.29	15.37	40.00	24.63	333	78	Horizontal
2	46.013	14.10	-27.81	29.21	15.50	40.00	24.50	241	42	Horizontal
3	85.8029	9.14	-27.45	34.27	15.96	40.00	24.04	259	93	Horizontal
4	187.7039	10.01	-26.64	46.52	29.89	43.50	13.61	364	218	Horizontal
5	428.8694	16.08	-25.16	32.22	23.14	46.00	22.86	252	120	Horizontal
6	758.3492	20.43	-24.19	29.06	25.30	46.00	20.70	164	117	Horizontal



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Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.3967	11.30	-28.00	45.85	29.15	40.00	10.85	388	13	Vertical
2	42.6163	13.62	-27.90	36.3	22.02	40.00	17.98	329	330	Vertical
3	68.3342	10.37	-27.44	43.73	26.66	40.00	13.34	254	289	Vertical
4	168.7794	8.88	-26.50	43.95	26.33	43.50	17.17	168	333	Vertical
5	421.5908	16.07	-25.15	34.75	25.67	46.00	20.33	248	333	Vertical
6	841.8109	21.34	-23.99	29.43	26.78	46.00	19.22	382	342	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:
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.

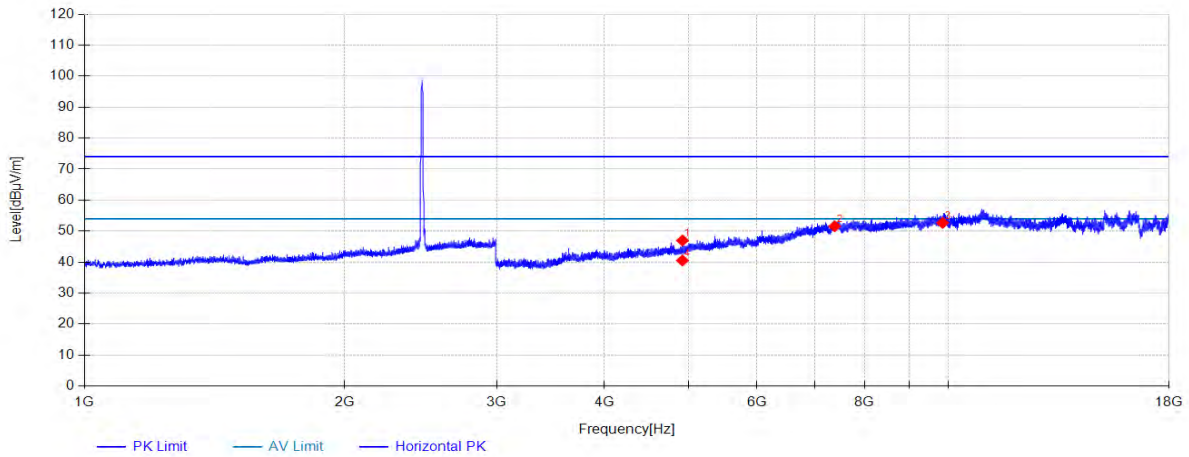


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Transmitter emission Above 1GHz 802.11b_Channel 1



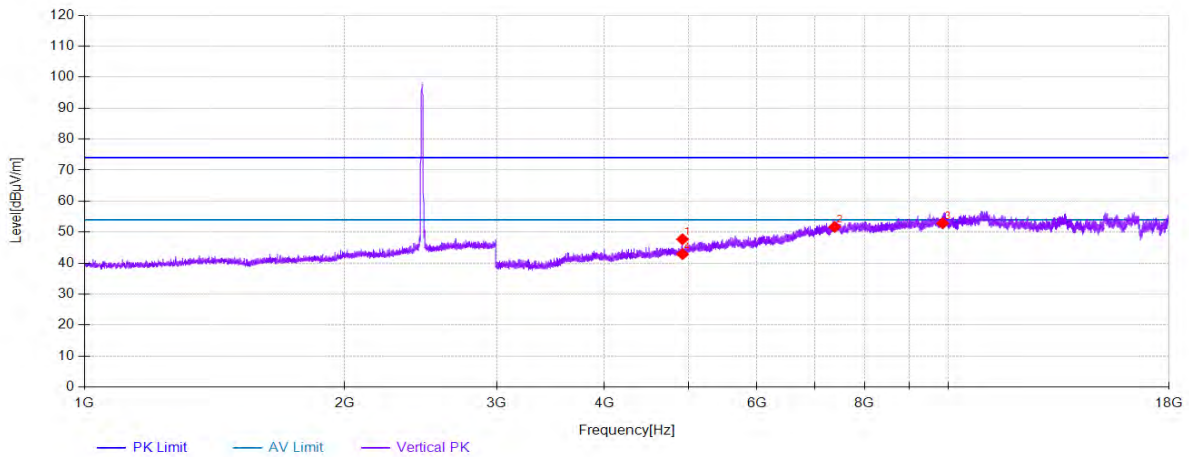
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	58.89	30.95	-42.84	47.00	74.00	27.00	104	279	Horizontal
2	7386	53.28	36.65	-38.36	51.57	74.00	22.43	155	290	Horizontal
3	9848	49.82	38.21	-35.36	52.67	74.00	21.33	203	108	Horizontal
4	4924.2043	52.44	30.95	-42.84	40.55	54.00	13.45	148	289	Horizontal



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802.11b_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	59.58	30.95	-42.84	47.69	74.00	26.31	325	34	Vertical
2	7386	53.40	36.65	-38.36	51.69	74.00	22.31	245	23	Vertical
3	9848	50.02	38.21	-35.36	52.87	74.00	21.13	367	301	Vertical
4	4924.7215	54.79	30.95	-42.84	42.90	54.00	11.10	299	23	Vertical

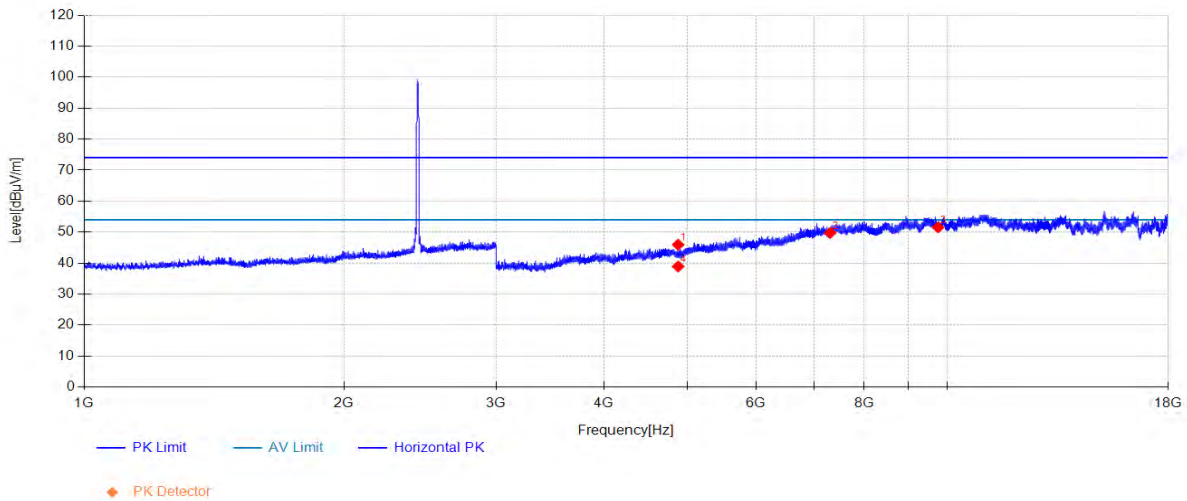


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802.11b_Channel 6



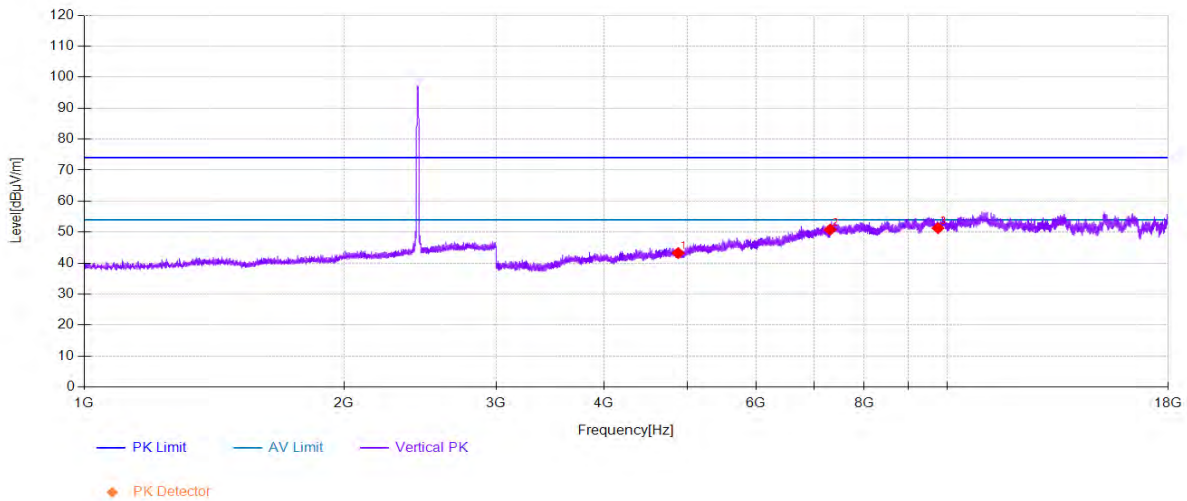
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	58.12	30.74	-42.90	45.96	74.00	28.04	158	211	Horizontal
2	7311	52.17	36.42	-38.81	49.78	74.00	24.22	174	296	Horizontal
3	9748	49.28	38.30	-36.04	51.54	74.00	22.46	163	230	Horizontal
4	4874.5474	51.10	30.75	-42.90	38.95	54.00	15.05	192	211	Horizontal



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802.11b_Channel 6



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	55.43	30.74	-42.90	43.27	74.00	30.73	253	179	Vertical
2	7311	53.21	36.42	-38.81	50.82	74.00	23.18	241	102	Vertical
3	9748	49.02	38.30	-36.04	51.28	74.00	22.72	236	274	Vertical

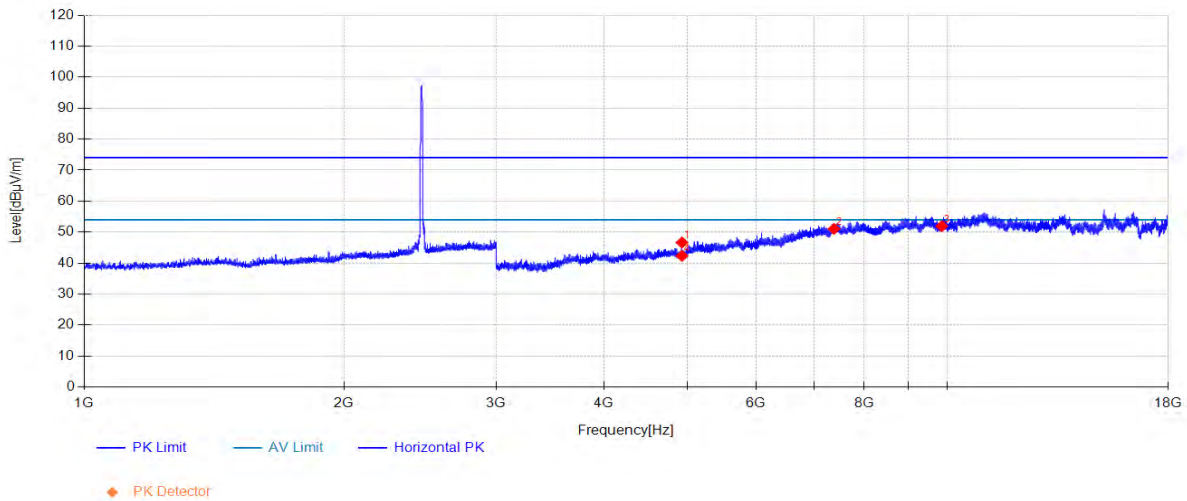


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802.11b_Channel 11



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	58.54	30.95	-42.84	46.65	74.00	27.35	185	55	Horizontal
2	7386	52.76	36.65	-38.36	51.05	74.00	22.95	172	285	Horizontal
3	9848	49.07	38.21	-35.36	51.92	74.00	22.08	163	159	Horizontal
4	4924.7215	54.25	30.95	-42.84	42.36	54.00	11.64	192	55	Horizontal

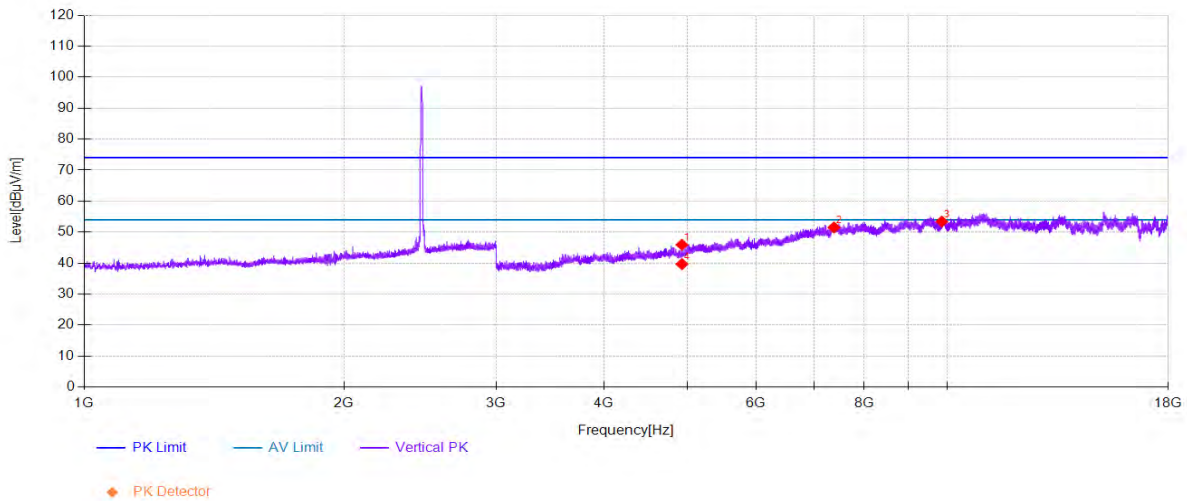


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802.11b_Channel 11



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	57.82	30.95	-42.84	45.93	74.00	28.07	212	13	Vertical
2	7386	53.20	36.65	-38.36	51.49	74.00	22.51	241	24	Vertical
3	9848	50.55	38.21	-35.36	53.40	74.00	20.60	239	327	Vertical
4	4924.7215	51.58	30.95	-42.84	39.69	54.00	14.31	301	348	Vertical

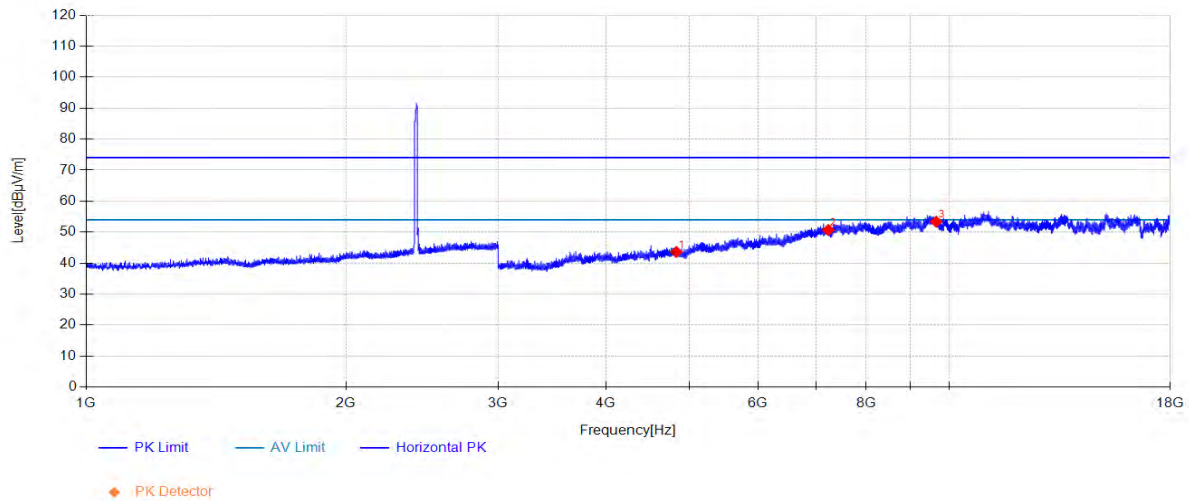


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802.11g_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	55.84	30.70	-42.93	43.61	74.00	30.39	175	12	Horizontal
2	7236	53.09	36.38	-38.77	50.70	74.00	23.30	128	298	Horizontal
3	9648	51.26	38.09	-35.97	53.38	74.00	20.62	322	107	Horizontal

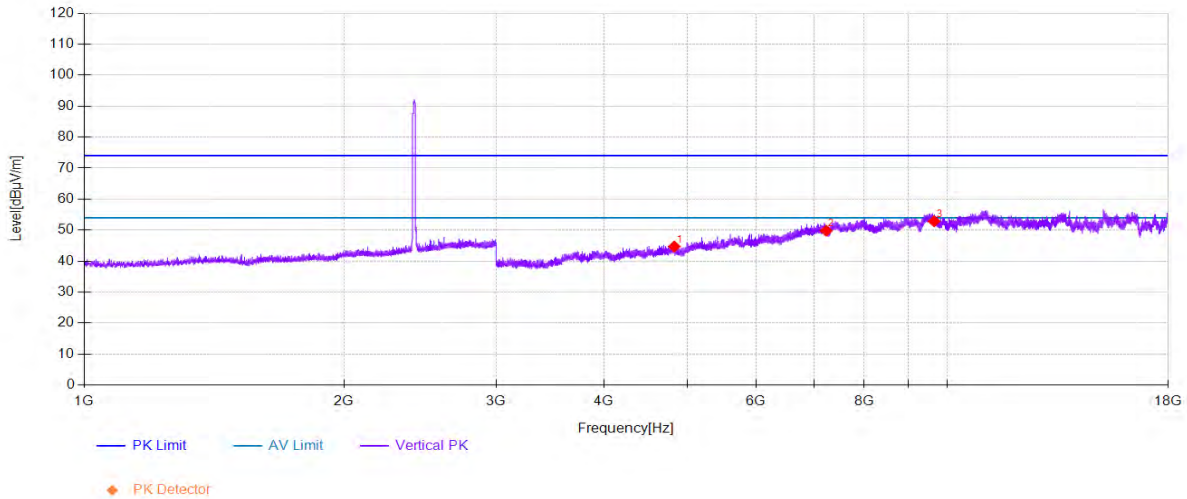


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802.11g_Channel 1

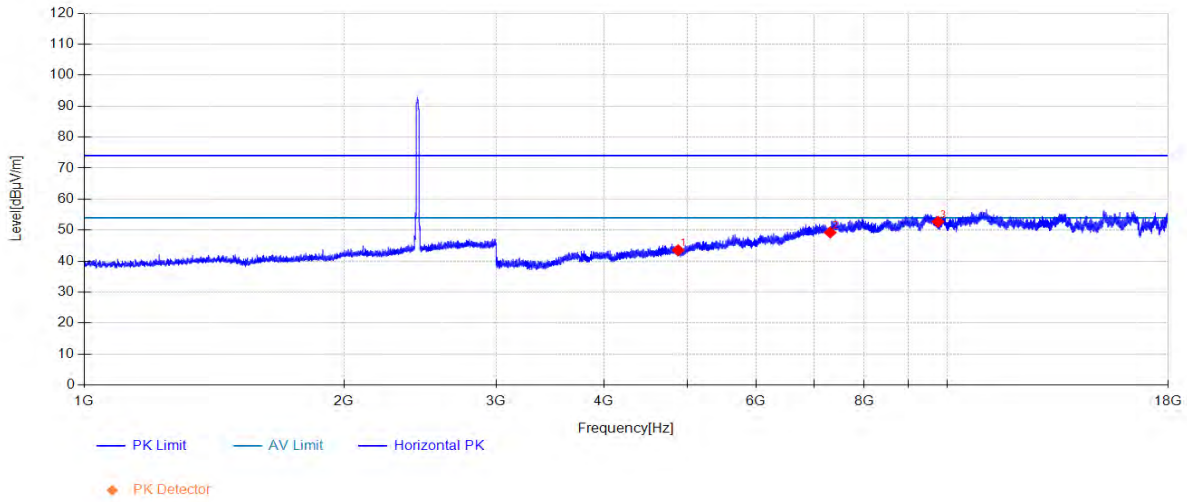


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	56.93	30.70	-42.93	44.70	74.00	29.30	394	2	Vertical
2	7236	52.21	36.38	-38.77	49.82	74.00	24.18	289	82	Vertical
3	9648	50.76	38.09	-35.97	52.88	74.00	21.12	354	233	Vertical



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802.11g_Channel 6

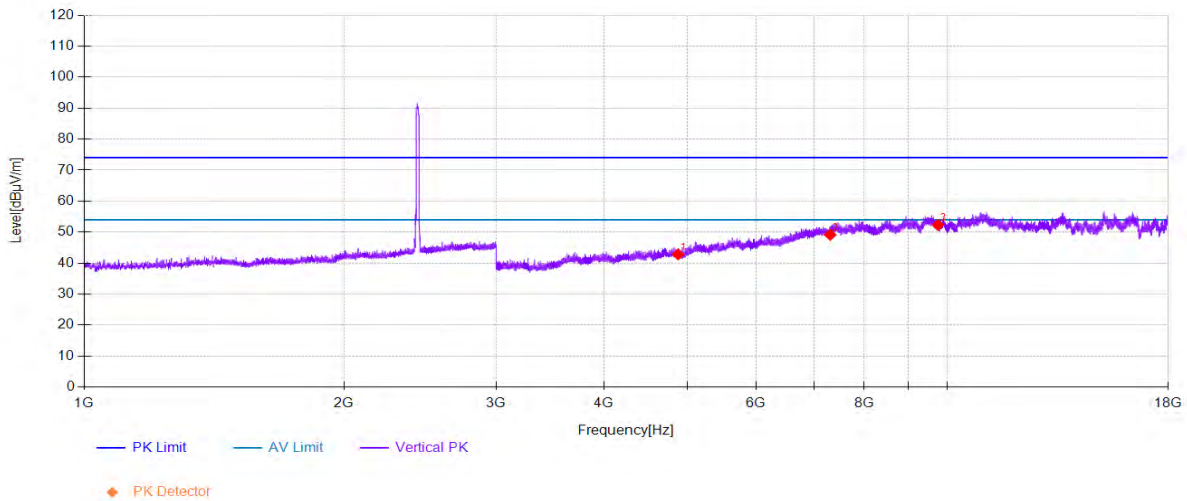


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	55.69	30.74	-42.90	43.53	74.00	30.47	153	76	Horizontal
2	7311	51.61	36.42	-38.81	49.22	74.00	24.78	108	107	Horizontal
3	9748	50.46	38.30	-36.04	52.72	74.00	21.28	149	350	Horizontal



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802.11g_Channel 6



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	54.98	30.74	-42.90	42.82	74.00	31.18	368	294	Vertical
2	7311	51.53	36.42	-38.81	49.14	74.00	24.86	294	183	Vertical
3	9748	50.04	38.30	-36.04	52.30	74.00	21.70	388	151	Vertical



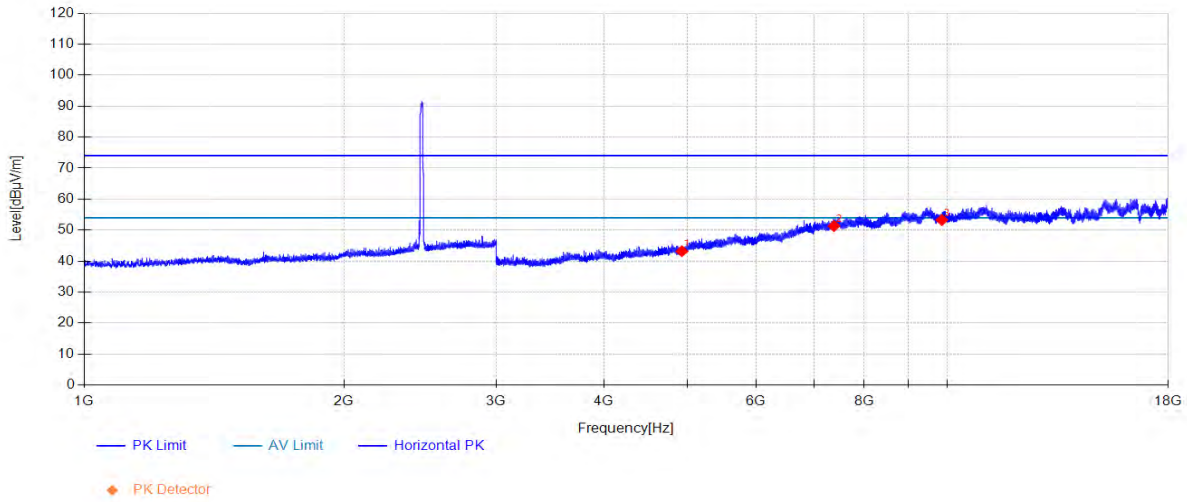
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Report No.: XEWM2303000130RG03

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802.11g_Channel 11

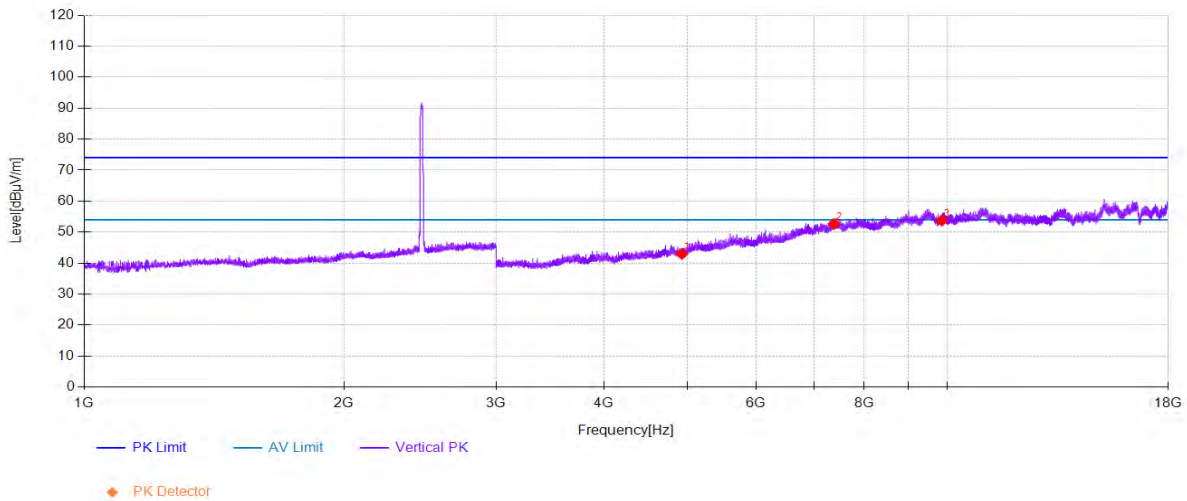


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	55.10	30.95	-42.84	43.21	74.00	30.79	163	160	Horizontal
2	7386	53.03	36.65	-38.36	51.32	74.00	22.68	152	308	Horizontal
3	9848	50.43	38.21	-35.36	53.28	74.00	20.72	107	329	Horizontal



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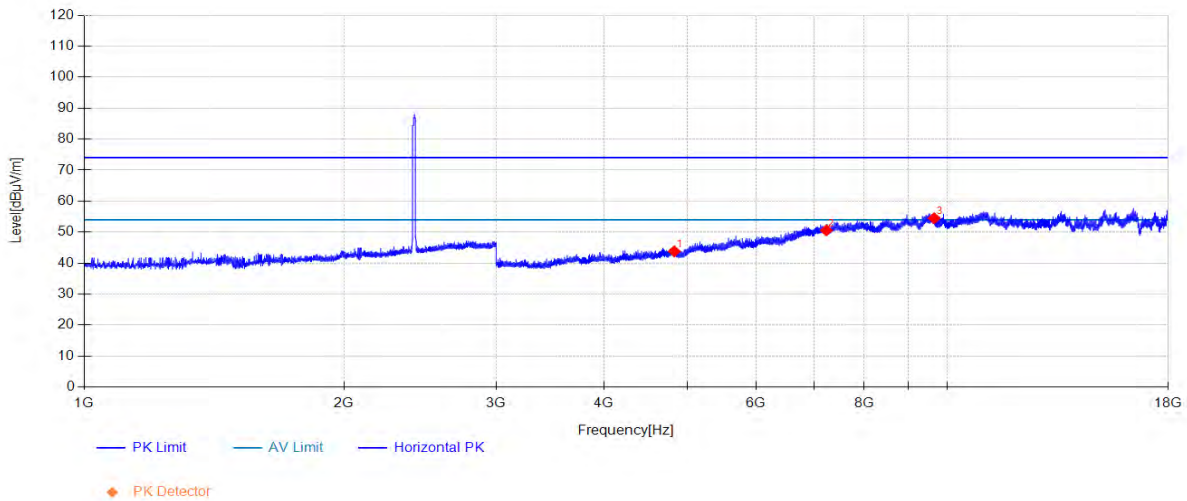
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	54.85	30.95	-42.84	42.96	74.00	31.04	332	327	Vertical
2	7386	54.35	36.65	-38.36	52.64	74.00	21.36	308	131	Vertical
3	9848	50.88	38.21	-35.36	53.73	74.00	20.27	241	141	Vertical



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802.11n20_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	56.03	30.70	-42.93	43.80	74.00	30.20	178	54	Horizontal
2	7236	52.96	36.38	-38.77	50.57	74.00	23.43	169	138	Horizontal
3	9648	52.36	38.09	-35.97	54.48	74.00	19.52	158	43	Horizontal

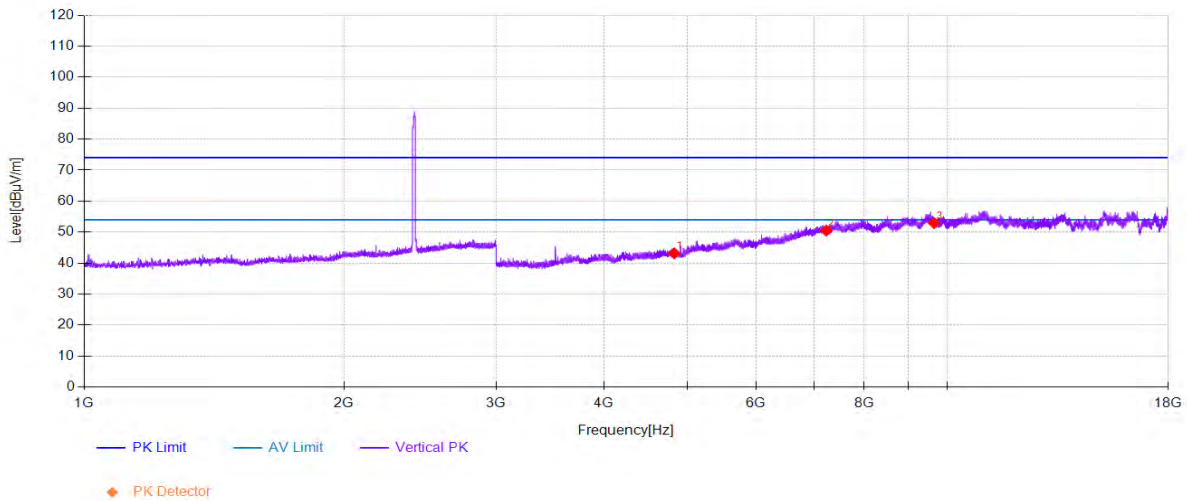


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802.11n20_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	55.38	30.70	-42.93	43.15	74.00	30.85	245	128	Vertical
2	7236	52.90	36.38	-38.77	50.51	74.00	23.49	263	286	Vertical
3	9648	50.78	38.09	-35.97	52.90	74.00	21.10	279	138	Vertical

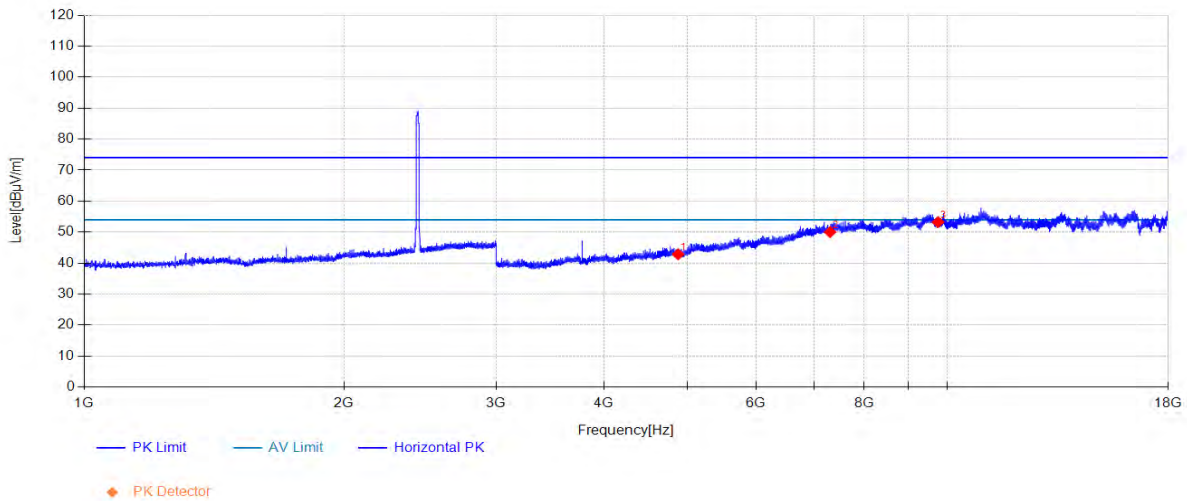


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802.11n20_Channel 6



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	54.99	30.74	-42.90	42.83	74.00	31.17	189	187	Horizontal
2	7311	52.41	36.42	-38.81	50.02	74.00	23.98	167	56	Horizontal
3	9748	50.98	38.30	-36.04	53.24	74.00	20.76	195	12	Horizontal

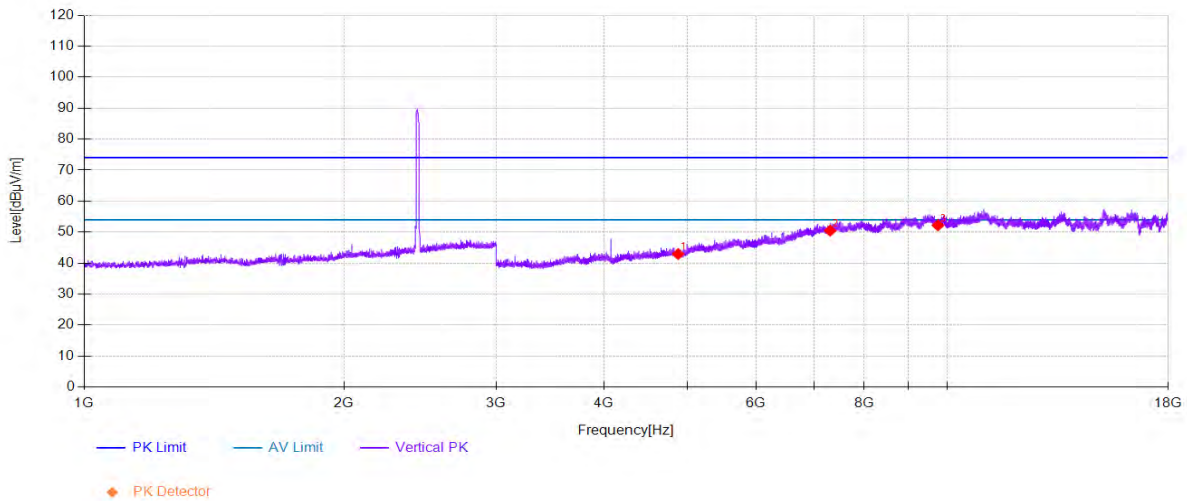


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802.11n20_Channel 6

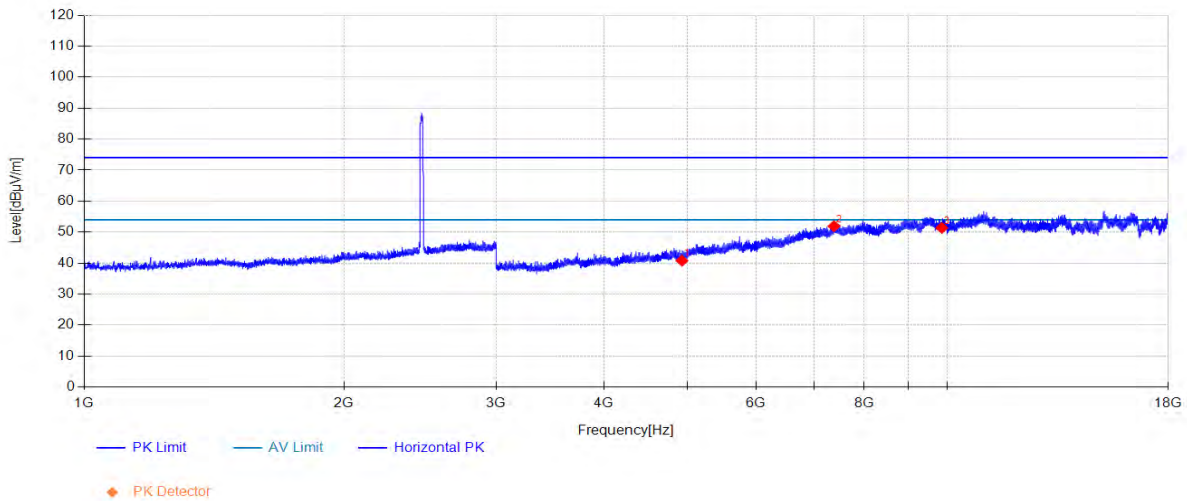


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	55.07	30.74	-42.90	42.91	74.00	31.09	222	85	Vertical
2	7311	52.86	36.42	-38.81	50.47	74.00	23.53	236	182	Vertical
3	9748	49.95	38.30	-36.04	52.21	74.00	21.79	248	243	Vertical



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802.11n20_Channel 11



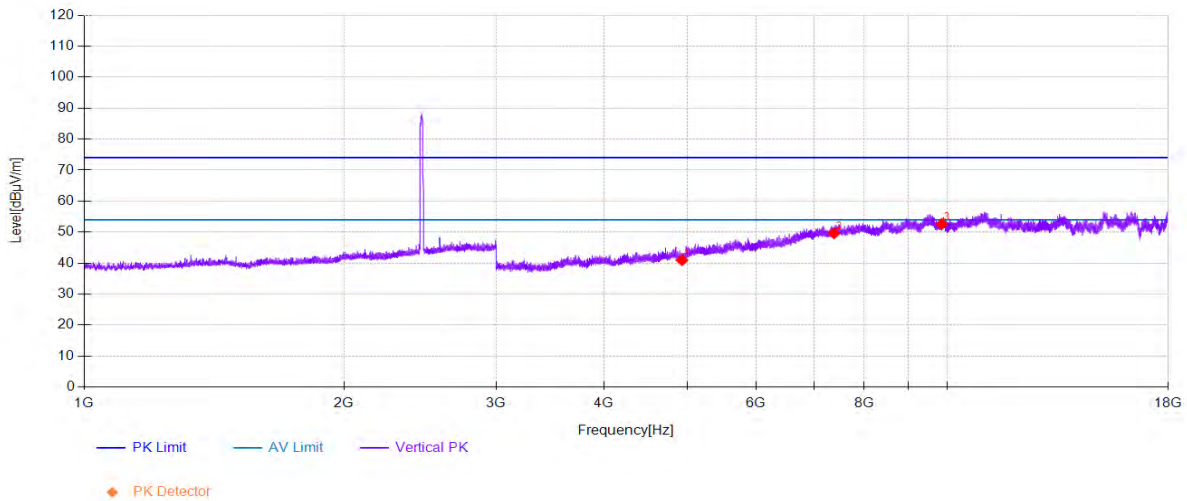
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1	4924	52.68	30.95	-42.84	40.79	74.00	33.21	202	295	Horizontal
2	7386	53.63	36.65	-38.36	51.92	74.00	22.08	189	232	Horizontal
3	9848	48.51	38.21	-35.36	51.36	74.00	22.64	167	32	Horizontal



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802.11n20_Channel 11



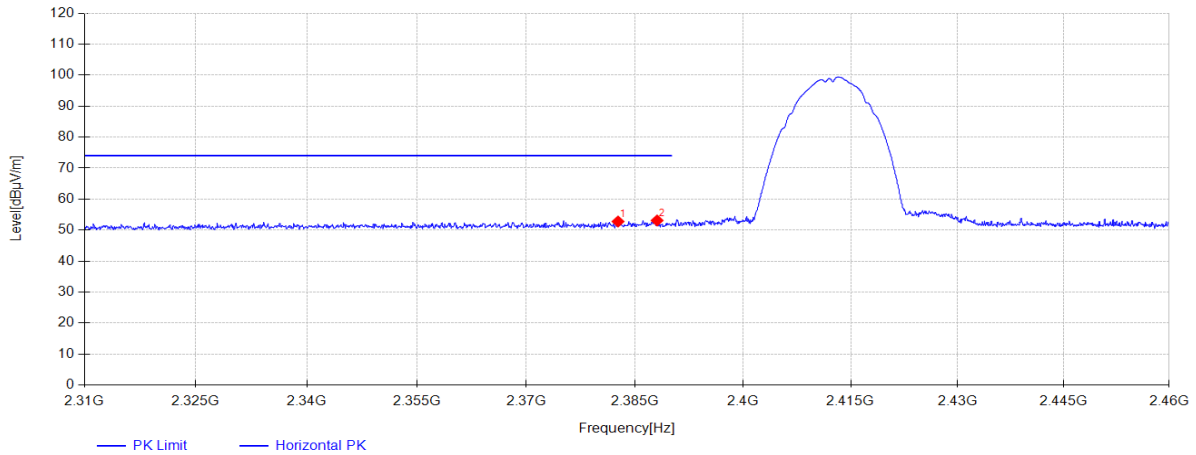
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1	4924	52.84	30.95	-42.84	40.95	74.00	33.05	265	86	Vertical
2	7386	51.34	36.65	-38.36	49.63	74.00	24.37	303	344	Vertical
3	9848	49.80	38.21	-35.36	52.65	74.00	21.35	299	360	Vertical

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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



Restricted bands around fundamental frequency 802.11b_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.6363	48.33	27.47	-23.03	52.77	74.00	21.23	102	206	Horizontal
2	2388.039	48.68	27.45	-23.02	53.11	74.00	20.89	102	206	Horizontal

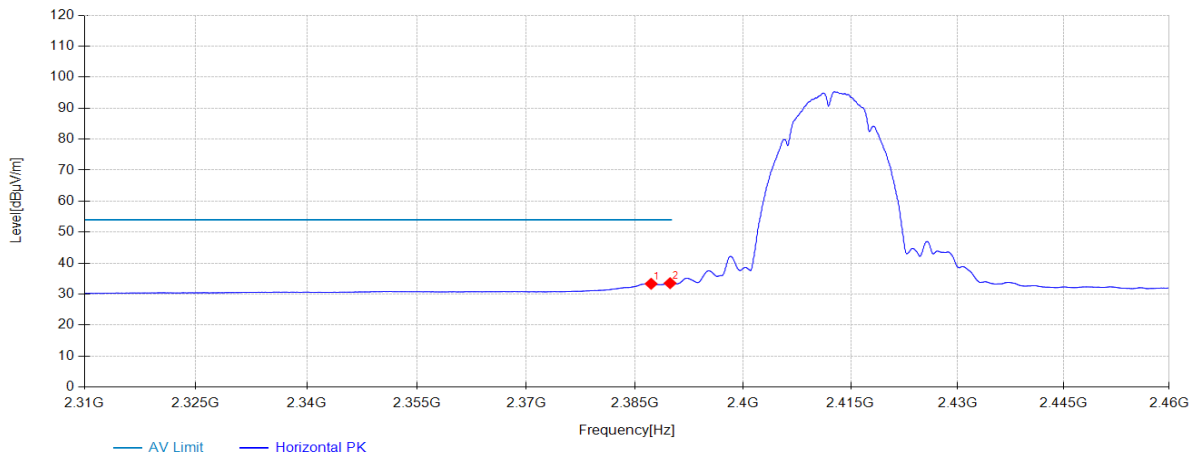


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802.11b_Channel 1



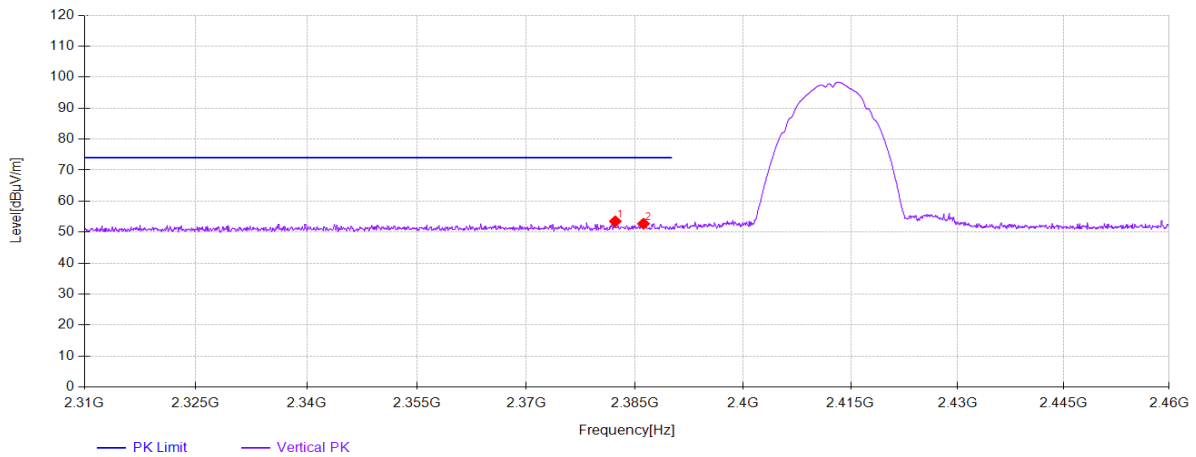
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1	2387.2136	28.90	27.45	-23.02	33.33	54.00	20.67	102	206	Horizontal
2	2389.8399	29.12	27.44	-23.02	33.54	54.00	20.46	102	206	Horizontal



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802.11b_Channel 1

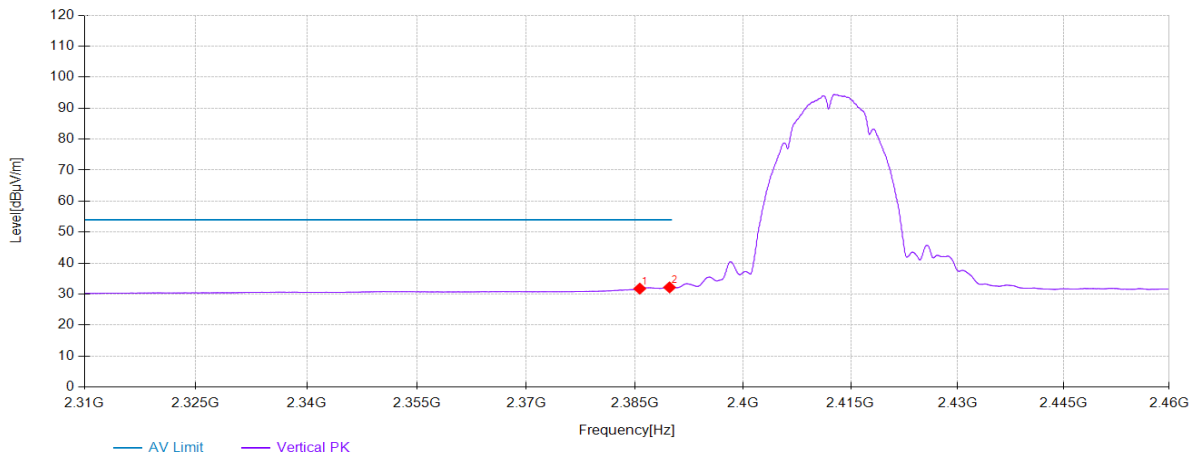


Data List										
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1	2382.2611	49.06	27.47	-23.03	53.50	74.00	20.50	296	360	Vertical
2	2386.1631	48.29	27.46	-23.02	52.73	74.00	21.27	296	360	Vertical



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802.11b_Channel 1



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.6378	27.34	27.46	-23.02	31.78	54.00	22.22	296	360	Vertical
2	2389.7649	27.76	27.44	-23.02	32.18	54.00	21.82	296	360	Vertical



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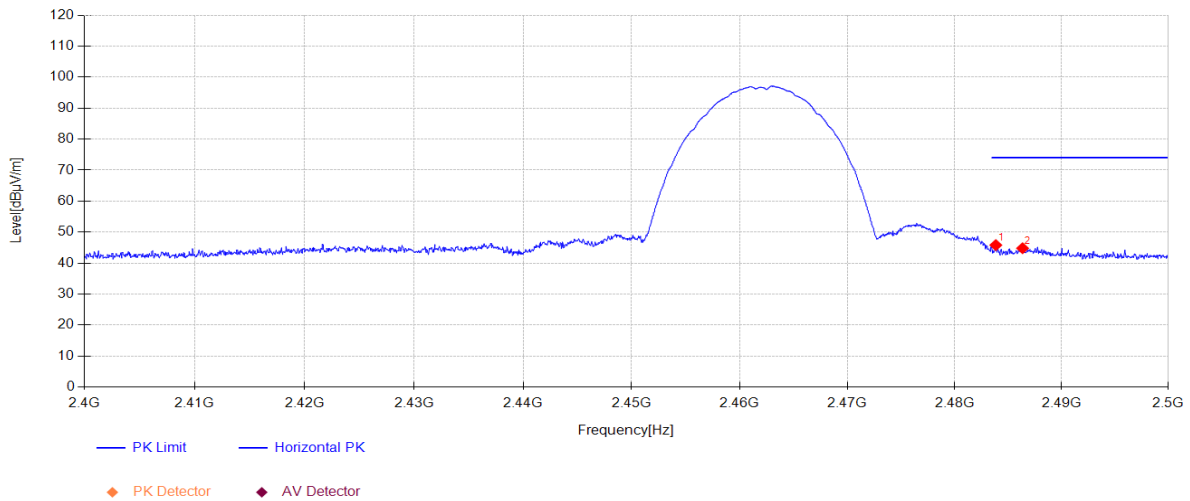
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Report No.: XEWM2303000130RG03

Rev.: 01

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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	2483.8419	41.19	27.74	-23.12	45.81	74.00	28.19	143	27	Horizontal
2	2486.3432	40.17	27.75	-23.12	44.80	74.00	29.20	143	27	Horizontal



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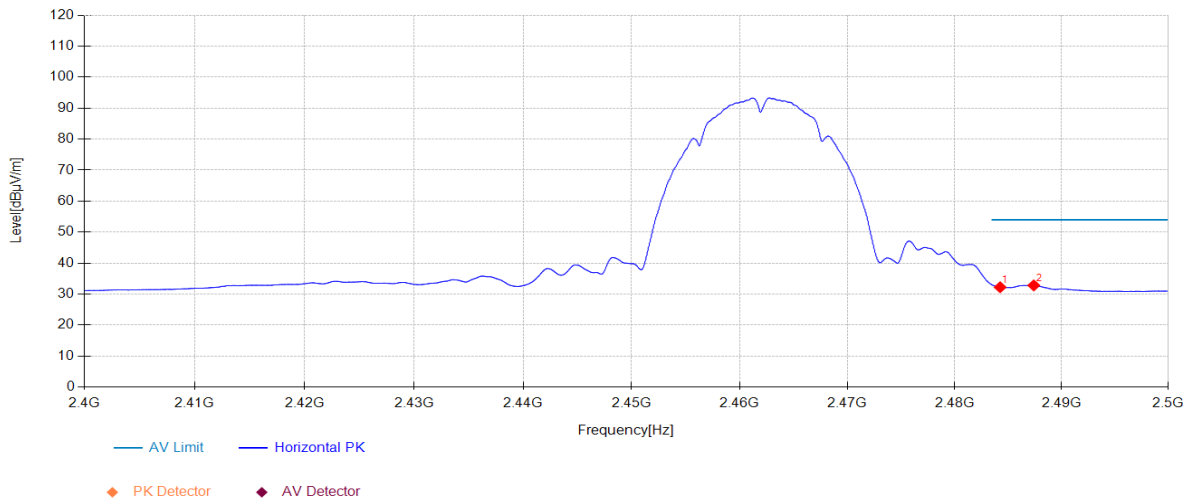
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Report No.: XEWM2303000130RG03

Rev.: 01

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802.11b_Channel 11



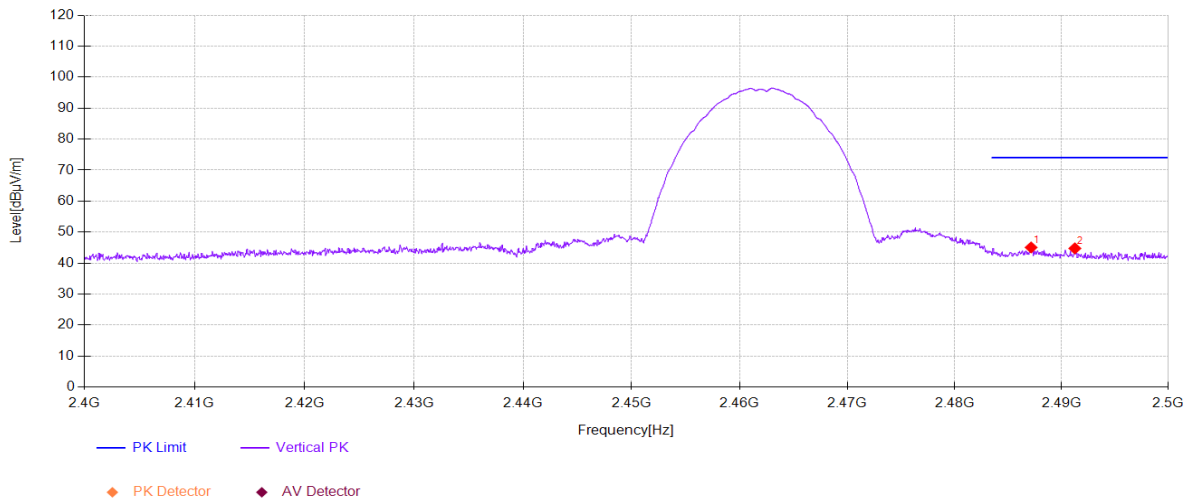
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1	2484.2421	27.61	27.74	-23.12	32.23	54.00	21.77	143	27	Horizontal
2	2487.3937	28.19	27.75	-23.12	32.82	54.00	21.18	143	27	Horizontal



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802.11b_Channel 11



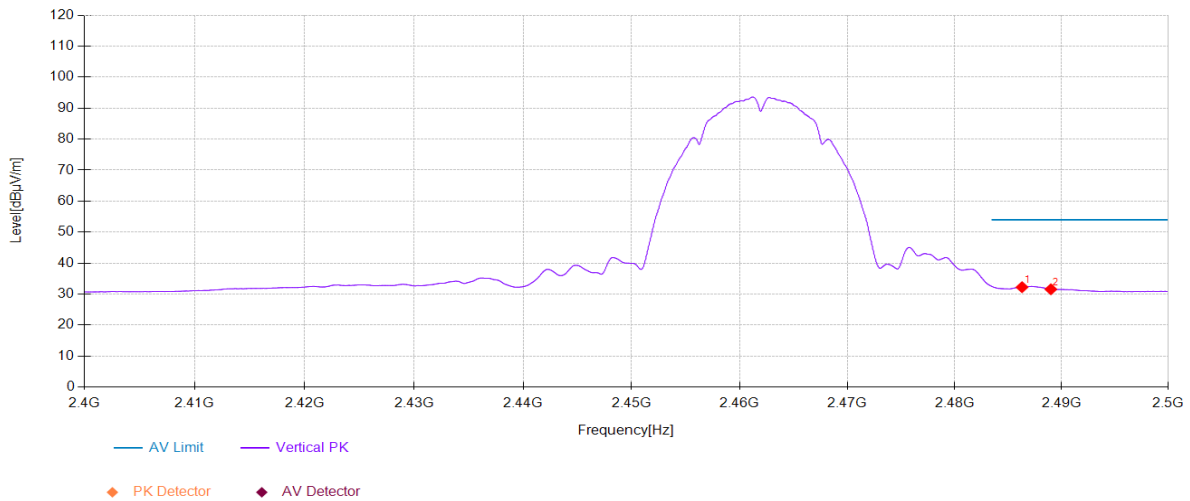
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1	2487.1436	40.43	27.75	-23.12	45.06	74.00	28.94	305	273	Vertical
2	2491.2456	40.13	27.76	-23.13	44.76	74.00	29.24	305	273	Vertical



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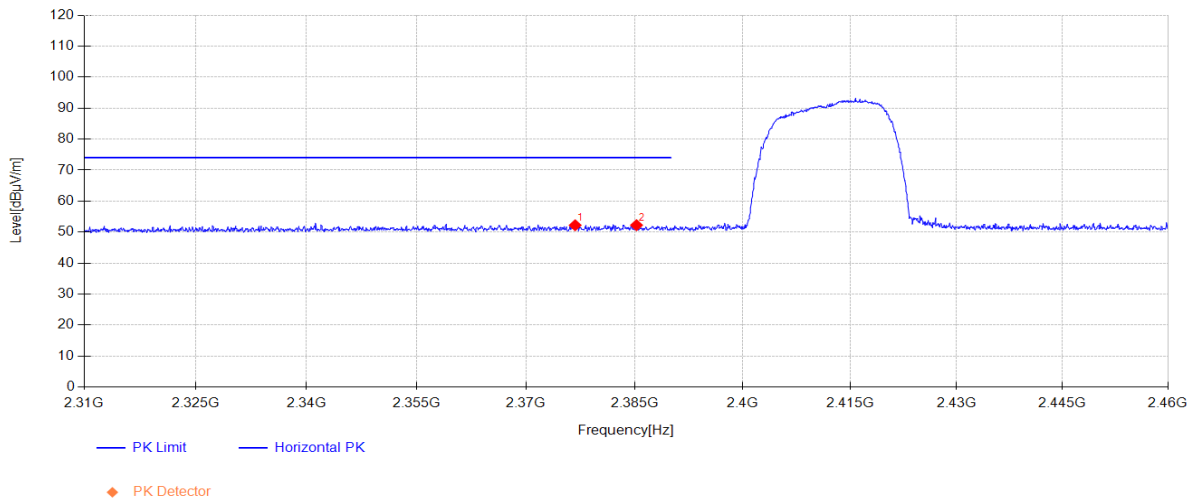
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NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.2931	27.61	27.75	-23.12	32.24	54.00	21.76	305	273	Vertical
2	2488.9945	26.92	27.76	-23.12	31.56	54.00	22.44	305	273	Vertical



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802.11g_Channel 1



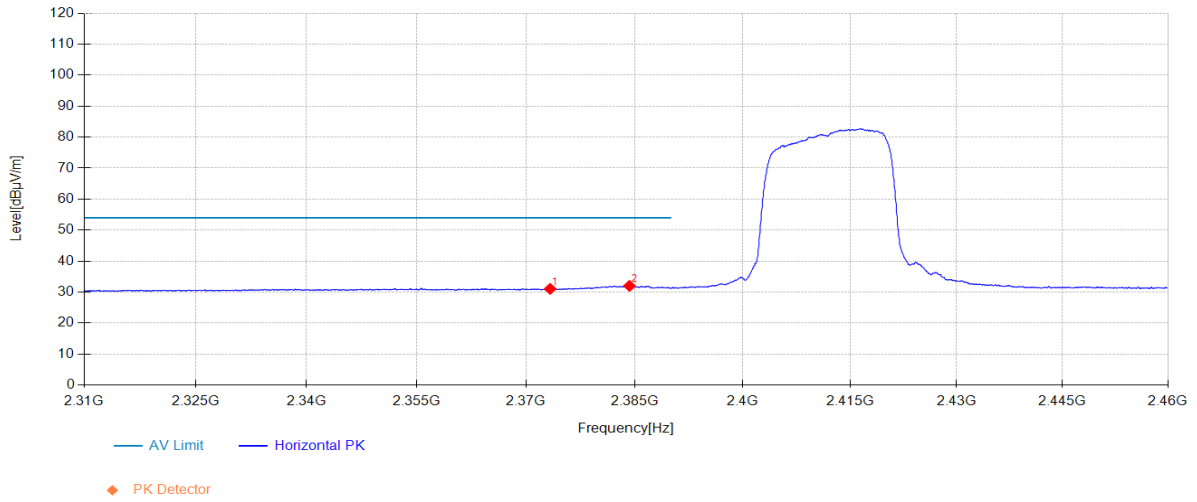
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NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.7834	47.77	27.49	-23.04	52.22	74.00	21.78	248	213	Horizontal
2	2385.2626	47.80	27.46	-23.02	52.24	74.00	21.76	248	213	Horizontal



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802.11g_Channel 1

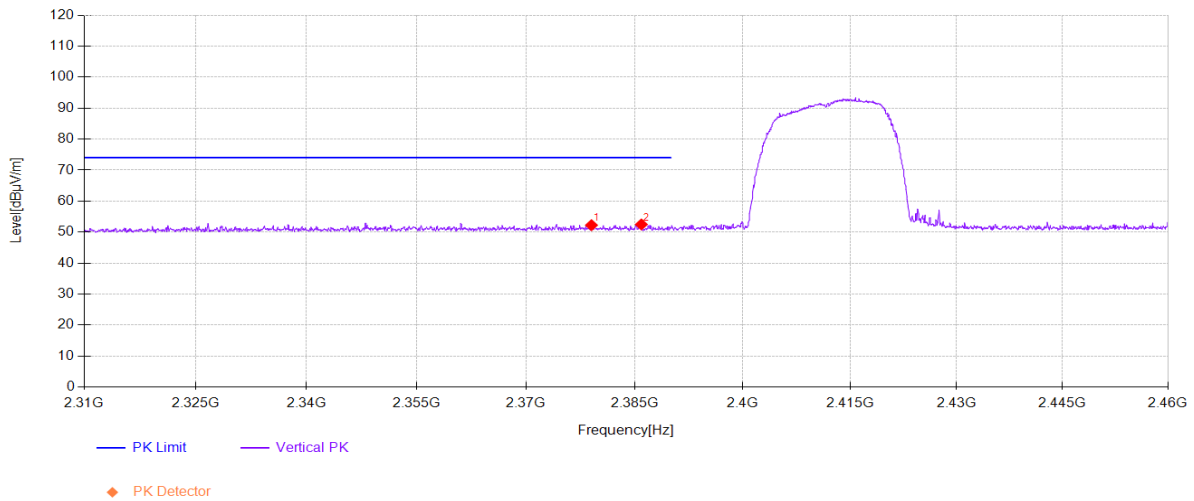


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NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.3317	26.59	27.51	-23.04	31.06	54.00	22.94	248	213	Horizontal
2	2384.2871	27.58	27.46	-23.03	32.01	54.00	21.99	248	213	Horizontal



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802.11g_Channel 1

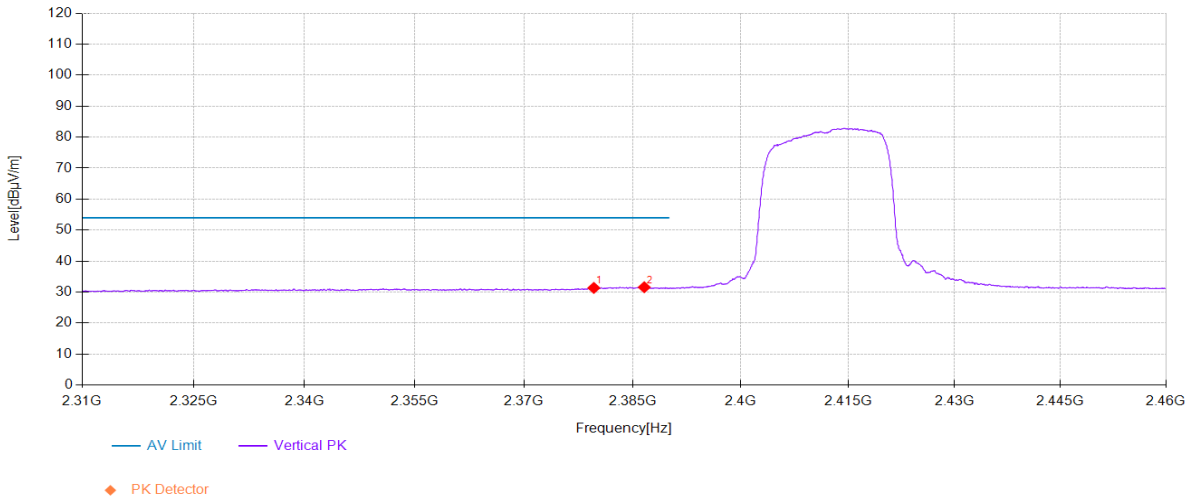


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.0345	47.80	27.48	-23.03	52.25	74.00	21.75	311	275	Vertical
2	2385.938	48.04	27.46	-23.02	52.48	74.00	21.52	311	275	Vertical



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802.11g_Channel 1

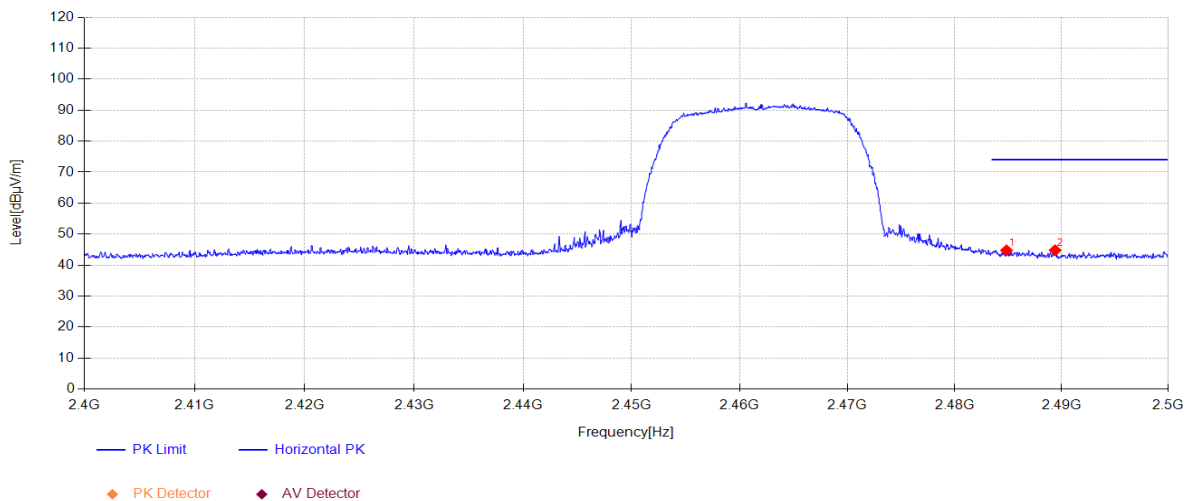


Data List										
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1	2379.6348	26.91	27.48	-23.03	31.36	54.00	22.64	311	275	Vertical
2	2386.6133	27.16	27.45	-23.02	31.59	54.00	22.41	311	275	Vertical



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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	2484.8424	40.14	27.74	-23.12	44.76	74.00	29.24	312	18	Horizontal
2	2489.3947	40.18	27.76	-23.13	44.81	74.00	29.19	312	18	Horizontal

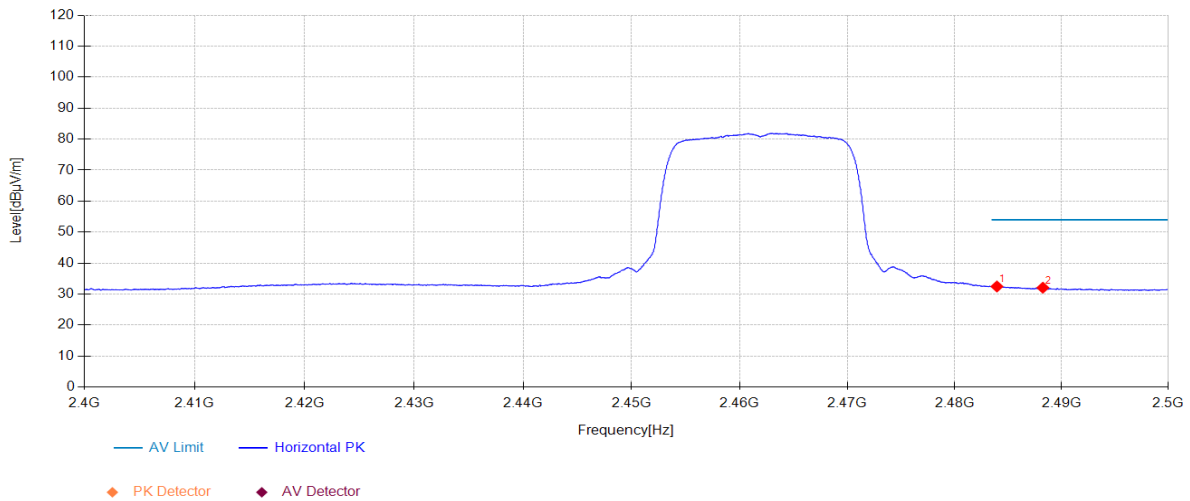


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802.11g_Channel 11



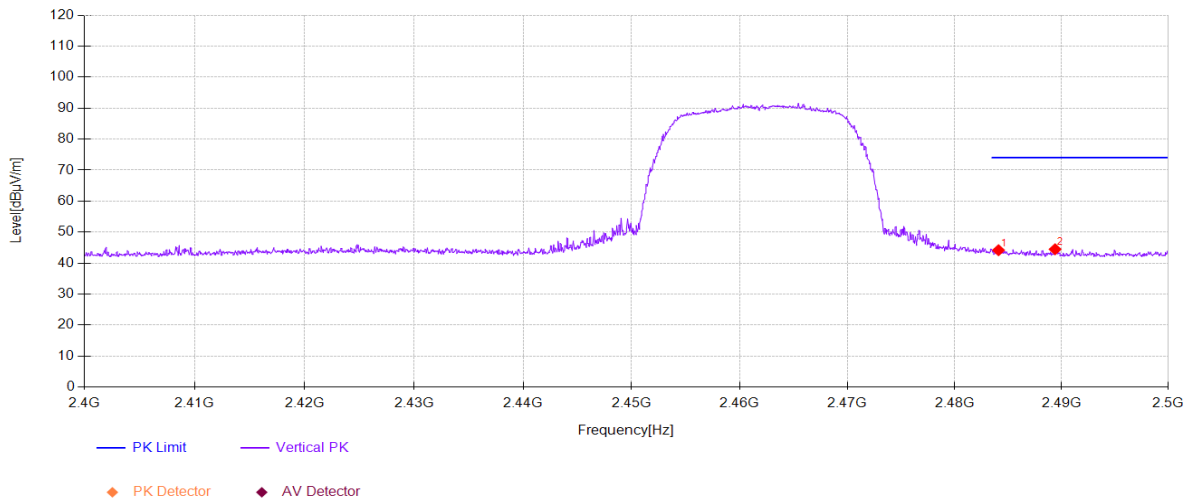
Data List										
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1	2483.942	27.85	27.74	-23.12	32.47	54.00	21.53	312	18	Horizontal
2	2488.2441	27.45	27.75	-23.12	32.08	54.00	21.92	312	18	Horizontal



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802.11g_Channel 11

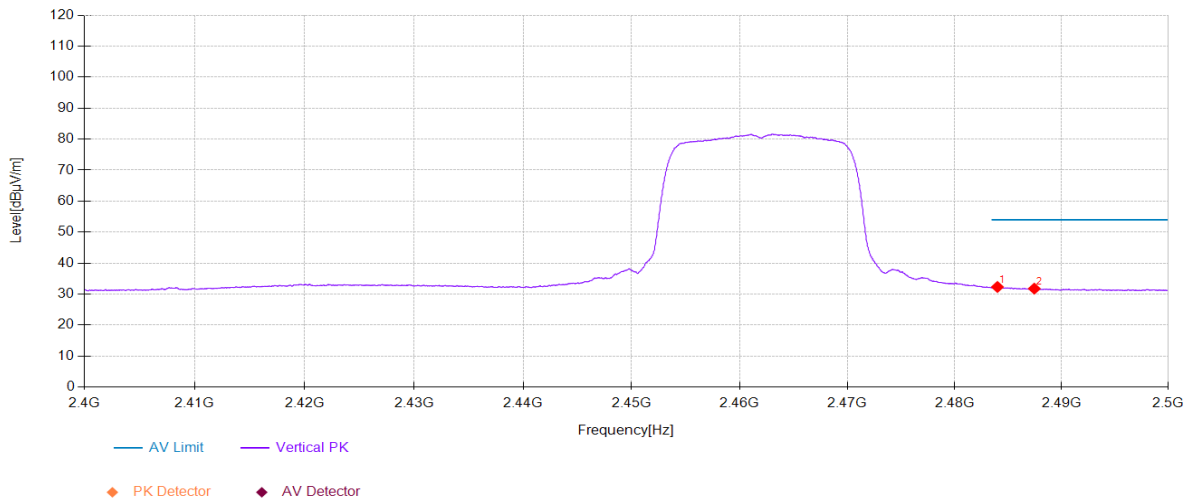


Data List										
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1	2484.092	39.55	27.74	-23.12	44.17	74.00	29.83	306	303	Vertical
2	2489.3947	39.84	27.76	-23.13	44.47	74.00	29.53	306	303	Vertical



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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.992	27.70	27.74	-23.12	32.32	54.00	21.68	306	303	Vertical
2	2487.4437	27.14	27.75	-23.12	31.77	54.00	22.23	306	303	Vertical

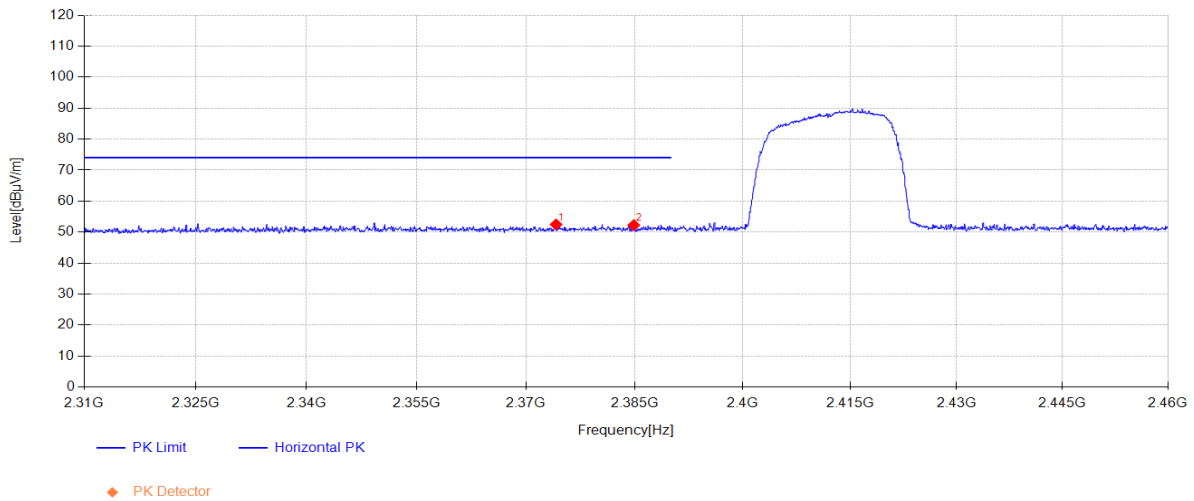


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802.11n20_Channel 1

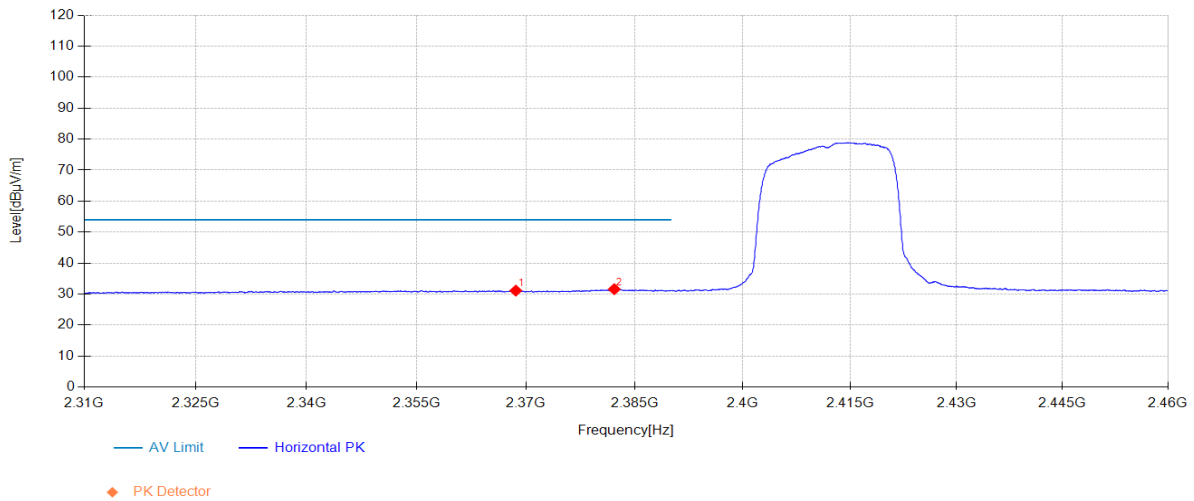


Data List										
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1	2374.1571	48.02	27.50	-23.04	52.48	74.00	21.52	198	20	Horizontal
2	2384.8874	47.80	27.46	-23.02	52.24	74.00	21.76	198	20	Horizontal



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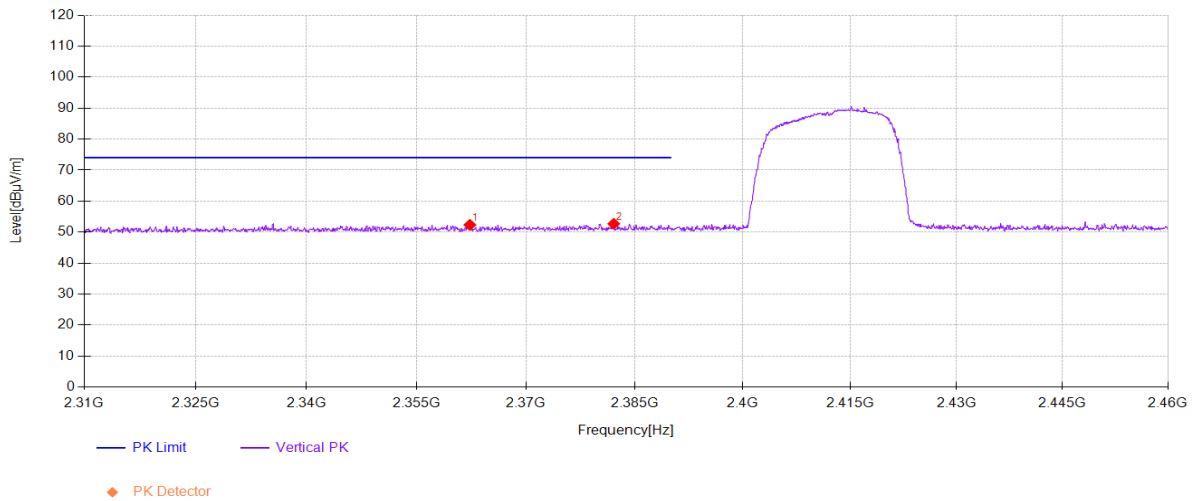
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1	2368.6043	26.66	27.53	-23.05	31.14	54.00	22.86	198	20	Horizontal
2	2382.1861	27.16	27.47	-23.03	31.60	54.00	22.40	198	20	Horizontal



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802.11n20_Channel 1

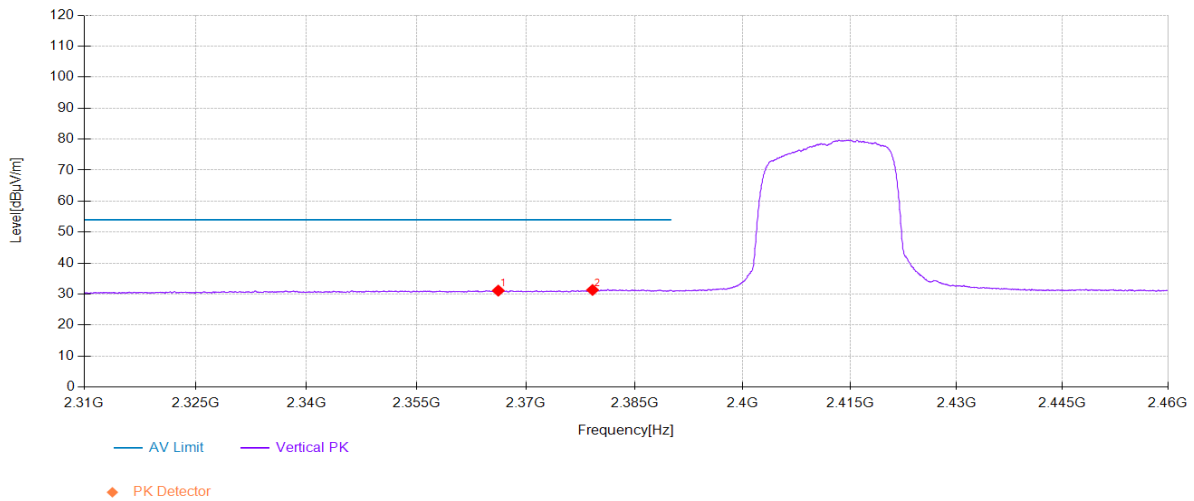


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.3012	47.83	27.55	-23.06	52.32	74.00	21.68	315	298	Vertical
2	2382.1111	48.25	27.47	-23.03	52.69	74.00	21.31	315	298	Vertical



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.2031	26.64	27.54	-23.05	31.13	54.00	22.87	315	298	Vertical
2	2379.1846	26.89	27.48	-23.03	31.34	54.00	22.66	315	298	Vertical

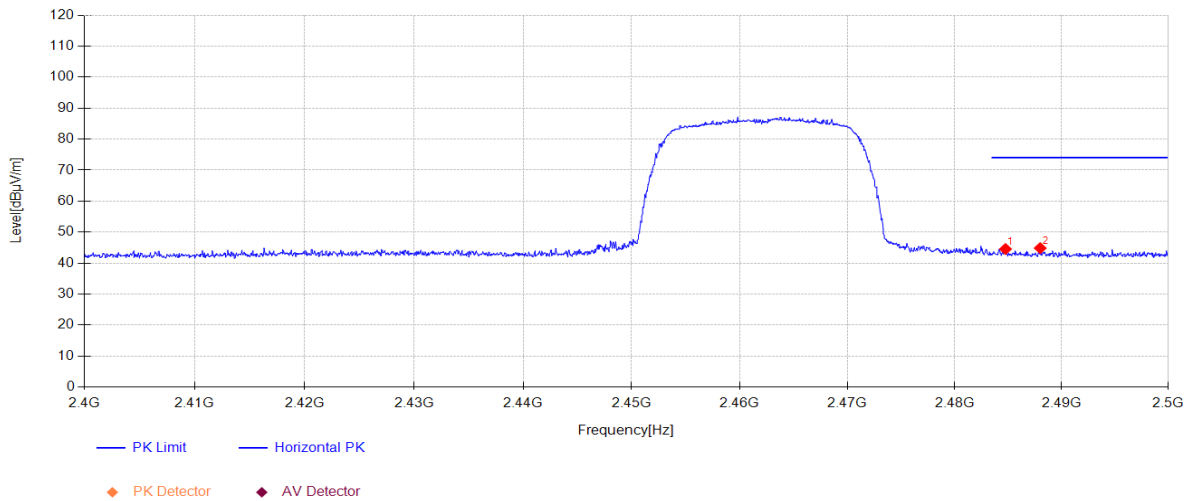


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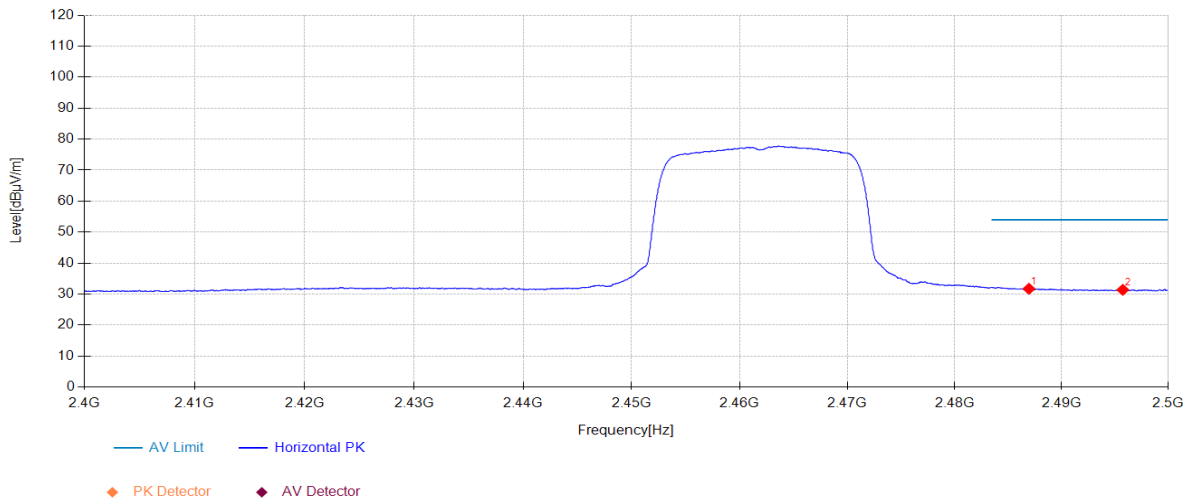
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1	2484.7424	39.94	27.74	-23.12	44.56	74.00	29.44	203	23	Horizontal
2	2487.994	40.22	27.75	-23.12	44.85	74.00	29.15	203	23	Horizontal



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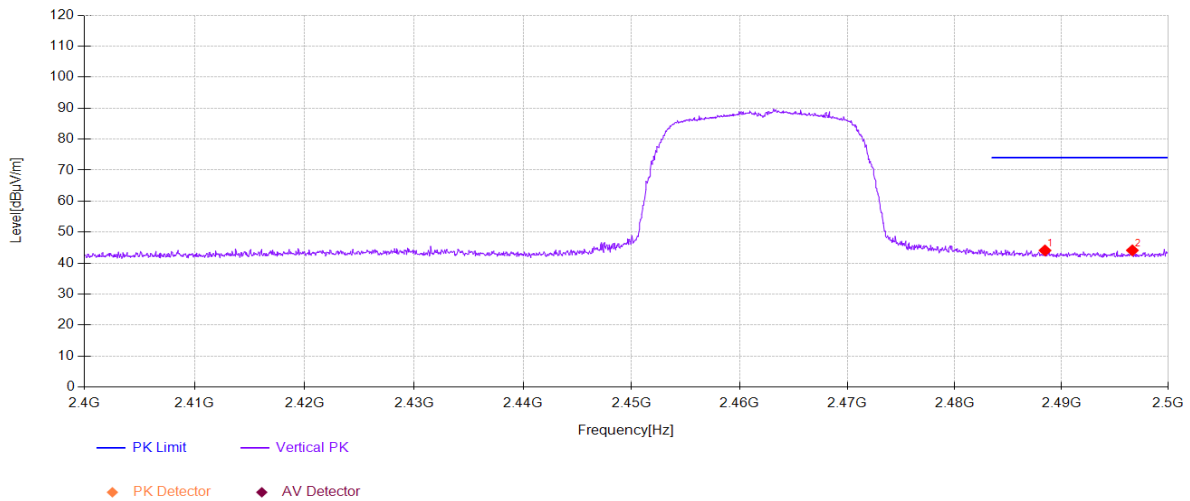


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.9435	27.11	27.75	-23.12	31.74	54.00	22.26	203	23	Horizontal
2	2495.7479	26.74	27.78	-23.13	31.39	54.00	22.61	203	23	Horizontal



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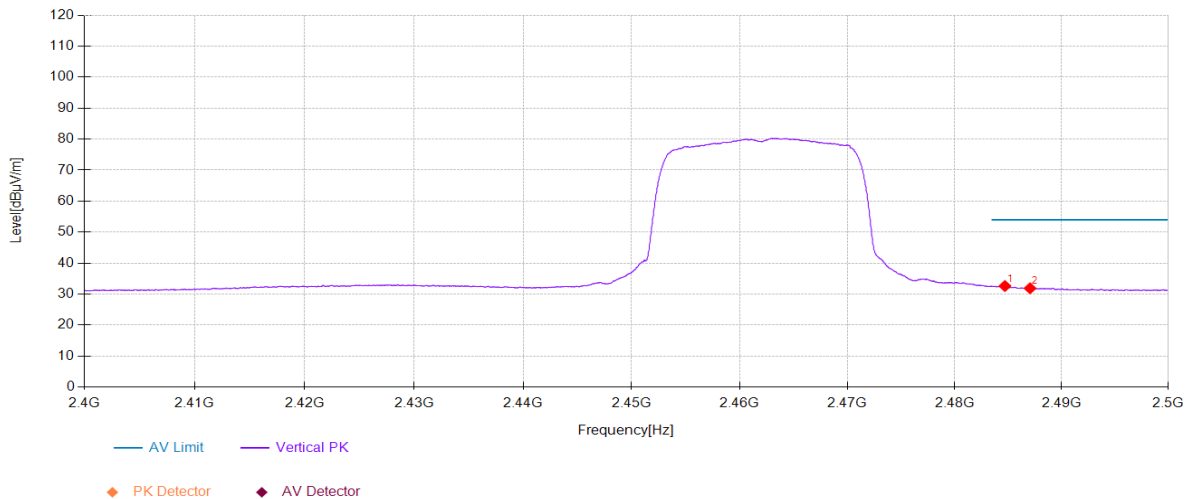


Data List										
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1	2488.4442	39.46	27.75	-23.12	44.09	74.00	29.91	315	282	Vertical
2	2496.6483	39.48	27.79	-23.14	44.13	74.00	29.87	315	282	Vertical



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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	2484.6923	28.00	27.74	-23.12	32.62	54.00	21.38	315	282	Vertical
2	2487.0435	27.26	27.75	-23.12	31.89	54.00	22.11	315	282	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Level = Reading(dBµV) + AF(dB/m) + Factor(dB)
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Level(dBµV/m)
- Both peak and average measured complies with the limit line, so test result is "PASS"



Simultaneous Transmission Possibilities

GSM1900+802.11a CH36

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	1420.0525	51.81	25.06	-24.11	52.76	74.00	21.24	263	18	Horizontal
2	2989.9988	48.95	28.54	-21.79	55.70	68.20	12.50	254	182	Horizontal
3	6486.8734	39.41	34.17	-16.28	57.30	68.20	10.90	206	277	Horizontal
4	9601.1301	54.08	37.81	-36.55	55.34	68.20	12.86	225	164	Horizontal
5	11266.9883	55.22	40.13	-38.32	57.03	74.00	16.97	263	256	Horizontal
6	17385.8693	51.99	44.33	-38.74	57.58	68.20	10.62	254	184	Horizontal

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	1420.5526	50.65	25.06	-24.11	51.60	74.00	22.40	196	336	Vertical
2	2778.2223	49.99	28.21	-21.99	56.21	74.00	17.79	254	181	Vertical
3	6258.9074	40.59	33.25	-16.17	57.67	68.20	10.53	145	333	Vertical
4	9510.8505	53.77	37.80	-36.52	55.05	68.20	13.15	226	350	Vertical
5	11280.214	55.10	40.12	-38.32	56.90	74.00	17.10	325	47	Vertical
6	16373.8187	52.39	38.72	-34.17	56.94	68.20	11.26	224	77	Vertical



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WCDMA B5+GFSK CH0

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	2023.5748	47.92	26.41	-23.34	50.99	74.00	23.01	196	250	Horizontal
2	2999.7142	48.75	28.60	-21.77	55.58	74.00	18.42	255	283	Horizontal
3	5553.7021	55.81	32.23	-41.63	46.41	74.00	27.59	196	99	Horizontal
4	7981.3993	54.65	36.40	-37.30	53.75	74.00	20.25	325	283	Horizontal
5	11021.1208	53.15	40.12	-37.11	56.16	74.00	17.84	222	43	Horizontal
6	16177.7271	52.96	38.10	-34.37	56.69	74.00	17.31	398	254	Horizontal

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	2022.7175	48.31	26.41	-23.35	51.37	74.00	22.63	263	174	Vertical
2	2983.1404	48.85	28.50	-21.80	55.55	74.00	18.45	374	121	Vertical
3	5128.2851	56.70	31.67	-42.53	45.84	74.00	28.16	125	3	Vertical
4	7689.7876	54.58	36.76	-37.69	53.65	74.00	20.35	226	61	Vertical
5	9428.6571	54.27	37.41	-35.56	56.12	74.00	17.88	325	321	Vertical
6	16337.3335	53.24	38.61	-35.16	56.69	74.00	17.31	221	108	Vertical



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LTE B4+802.11b CH1

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	1061.1516	59.49	24.14	-25.29	58.34	74.00	15.66	196	160	Horizontal
2	2829.4042	49.12	28.30	-21.86	55.56	74.00	18.44	254	122	Horizontal
3	5208.0883	59.82	31.85	-42.53	49.14	74.00	24.86	146	82	Horizontal
4	7418.5767	54.78	36.74	-38.28	53.24	74.00	20.76	254	23	Horizontal
5	9567.2627	54.16	37.80	-35.76	56.20	74.00	17.80	189	264	Horizontal
6	15242.2897	52.16	39.78	-35.67	56.27	74.00	17.73	263	168	Horizontal

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	1059.1513	52.80	24.14	-25.28	51.66	74.00	22.34	266	20	Vertical
2	2791.9703	49.66	28.27	-21.89	56.04	74.00	17.96	325	6	Vertical
3	4968.0787	56.23	31.07	-42.77	44.53	74.00	29.47	254	49	Vertical
4	7967.5987	54.42	36.40	-37.33	53.49	74.00	20.51	146	156	Vertical
5	10950.918	53.20	40.15	-37.20	56.15	74.00	17.85	228	300	Vertical
6	15222.4889	52.64	39.74	-35.49	56.89	74.00	17.11	254	98	Vertical

---End of Report---



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