

Report No.: SEWM2207000111RG03

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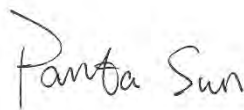
TEST REPORT

Application No.: SEWM2207000111RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Tablet Computer
Model No.: 22081283G
Trade Mark: Redmi
FCC ID: 2AFZZ283G
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/07/07
Date of Test: 2022/07/11 to 2022/07/21
Date of Issue: 2022/07/21

Test Result :**PASS ***

* 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		2022/07/21		Original

Prepared By		Weller Liu
		(Weller Liu) / Test Supervisor
Checked By		Well Wei
		(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



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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:	Lves Cheng, King-p Li

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Tablet Computer	
Model No.:	22081283G	
Trade Mark:	Redmi	
Hardware Version:	P1.1	
Software Version:	MIUI 13	
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:	☒ SISO	802.11b/g/n
	☐ MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
	☐ Diversity	802.11b/g : Tx & Rx
Antenna Type:	PIFA Antenna	
Antenna Gain*:	☒ Provided by client	
	-1.1dBi	
RF Cable*:	1dB	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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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					

3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.87
LTNV	0	3.87
HTNV	40	3.87
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

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



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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)
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. 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. The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.1dBi. (Provided by client)*. <i>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</i> <i>Remark:</i> <i>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>	



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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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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, 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.		



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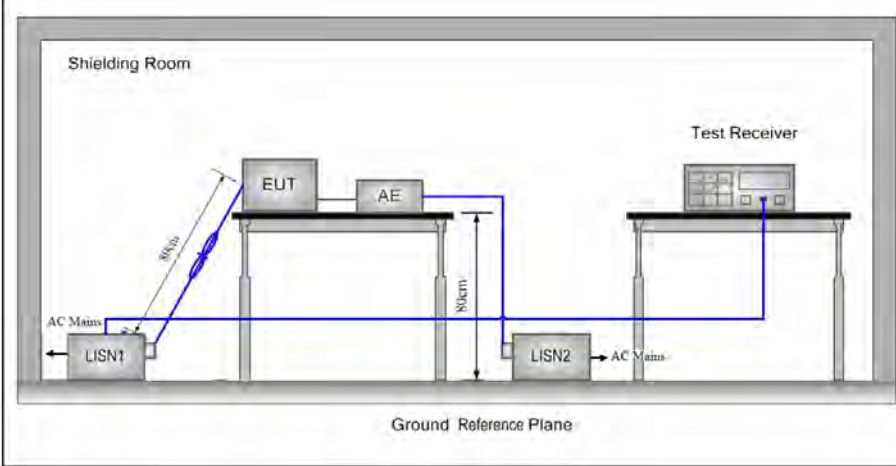
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.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



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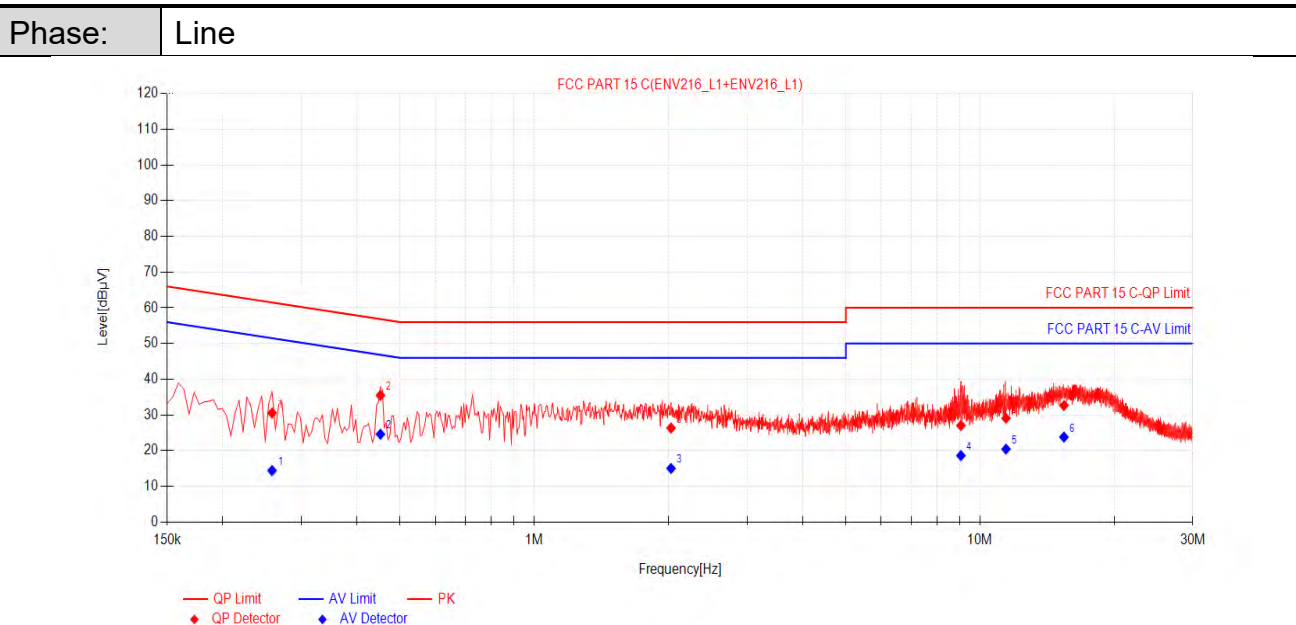
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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	0.2580	10.76	19.79	30.55	61.50	30.95	3.67	14.43	51.50	37.07	PASS
2	0.4515	10.56	24.93	35.49	56.85	21.36	14.06	24.62	46.85	22.23	PASS
3	2.0265	10.68	15.66	26.34	56.00	29.66	4.35	15.03	46.00	30.97	PASS
4	9.0600	10.66	16.39	27.05	60.00	32.95	7.96	18.62	50.00	31.38	PASS
5	11.4360	10.60	18.49	29.09	60.00	30.91	9.84	20.44	50.00	29.56	PASS
6	15.4275	10.52	22.12	32.64	60.00	27.36	13.29	23.81	50.00	26.19	PASS

Remark:

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



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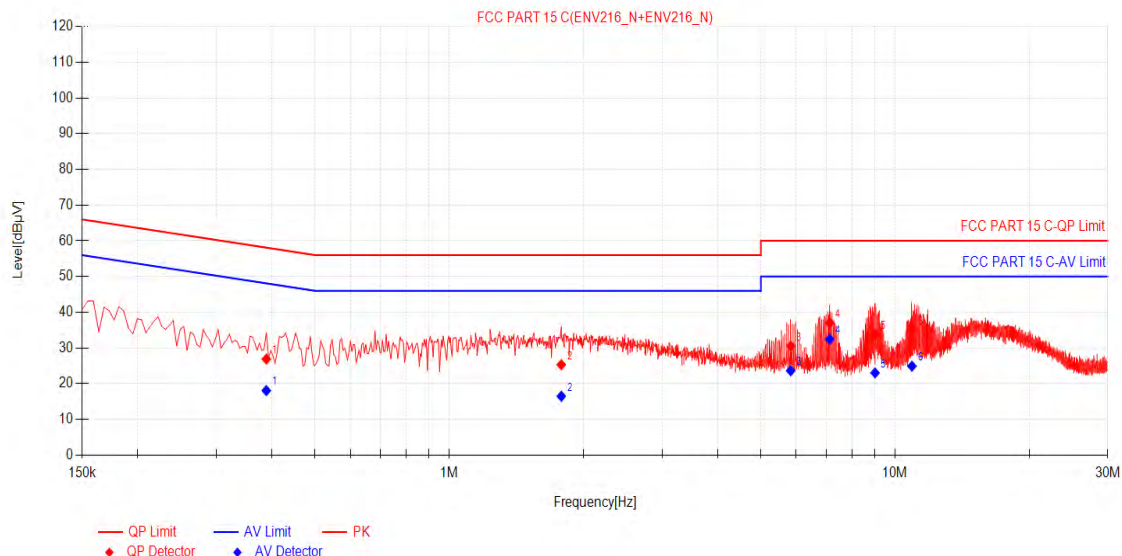
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Phase: Neutral



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	0.3885	10.82	16.07	26.89	58.10	31.21	7.26	18.08	48.10	30.02	PASS
2	1.7835	10.78	14.54	25.32	56.00	30.68	5.71	16.49	46.00	29.51	PASS
3	5.8335	10.59	19.92	30.51	60.00	29.49	13.02	23.61	50.00	26.39	PASS
4	7.1340	10.52	26.47	36.99	60.00	23.01	21.95	32.47	50.00	17.53	PASS
5	9.0195	10.62	23.23	33.85	60.00	26.15	12.39	23.01	50.00	26.99	PASS
6	10.9140	10.66	24.46	35.12	60.00	24.88	14.25	24.91	50.00	25.09	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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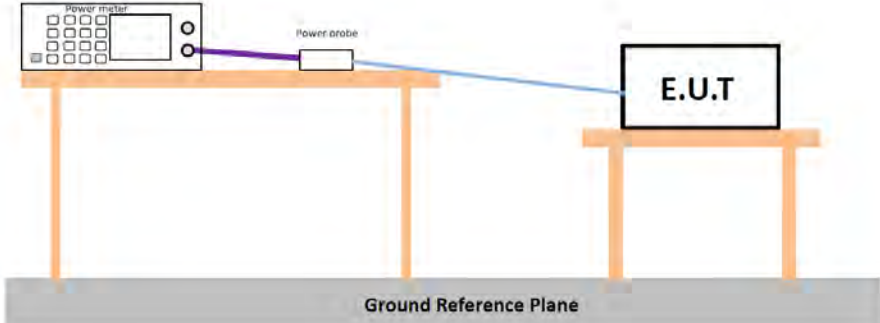
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Peak)
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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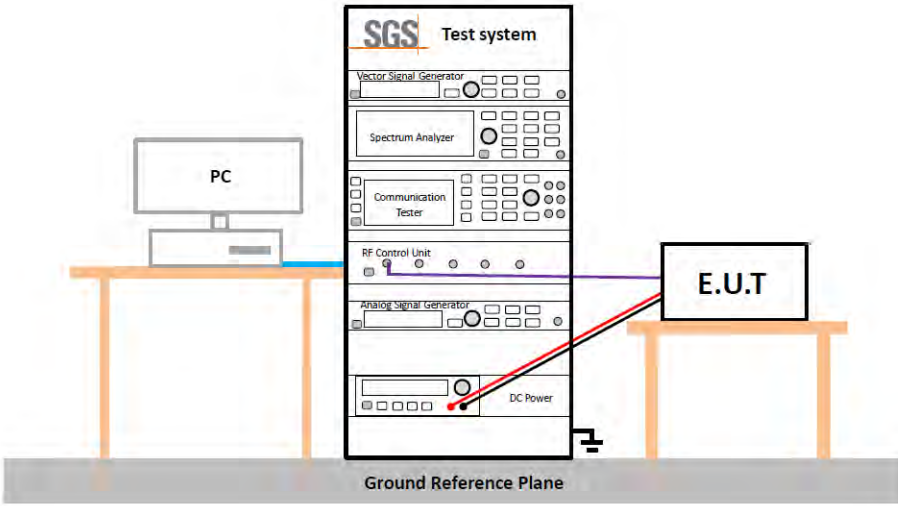
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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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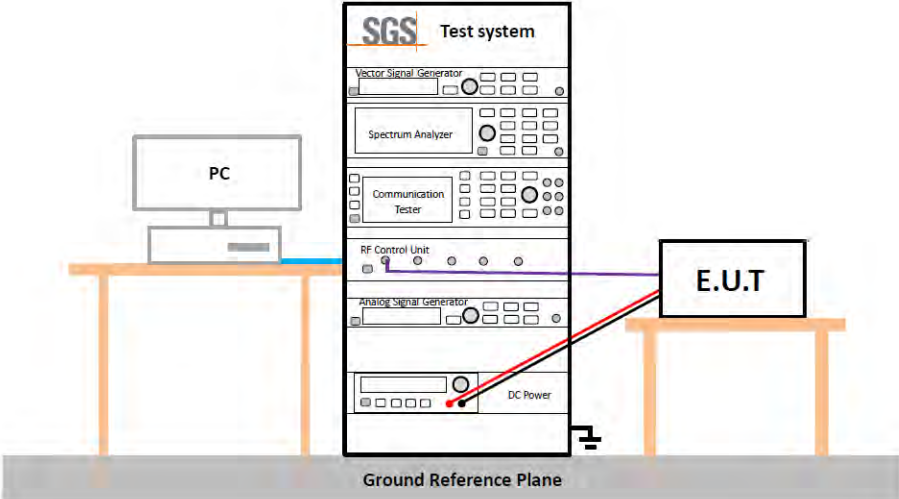
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4.6 Power Spectral Density

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:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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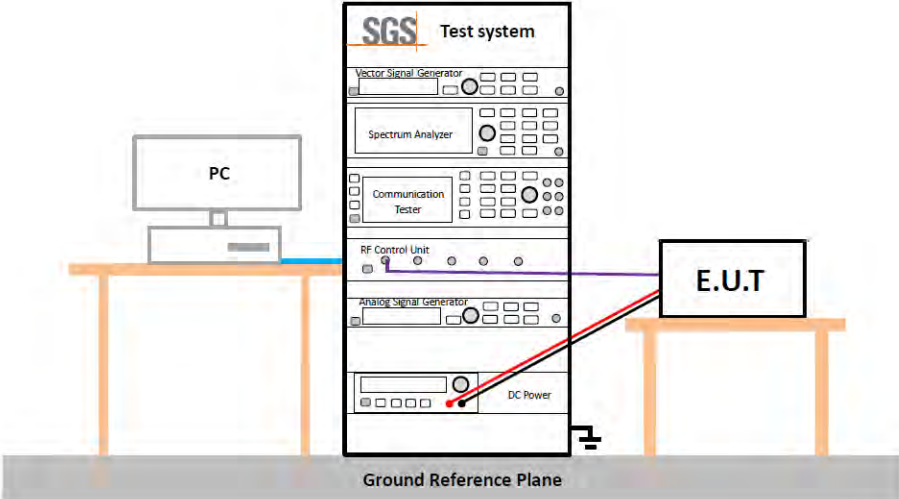
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4.7 Band-edge for RF Conducted Emissions

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	



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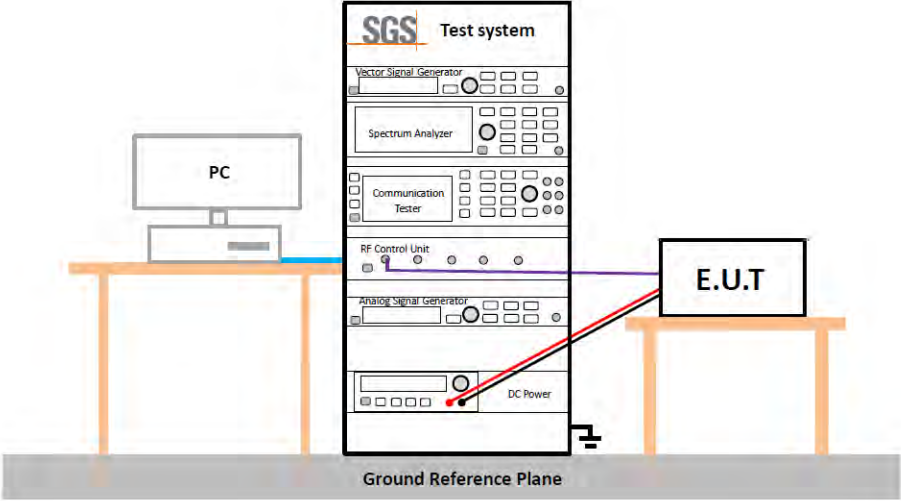
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4.8 RF Conducted Spurious Emissions

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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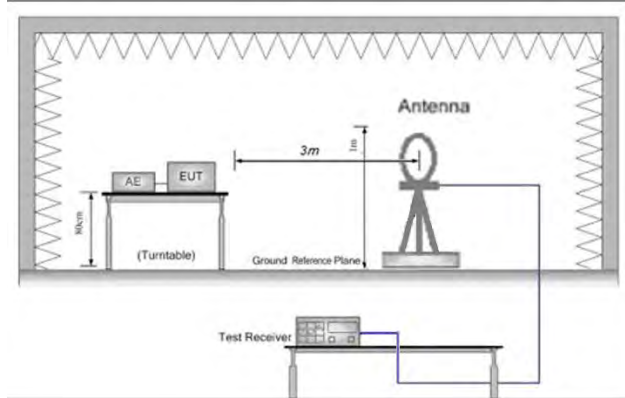


Figure 1. Below 30MHz

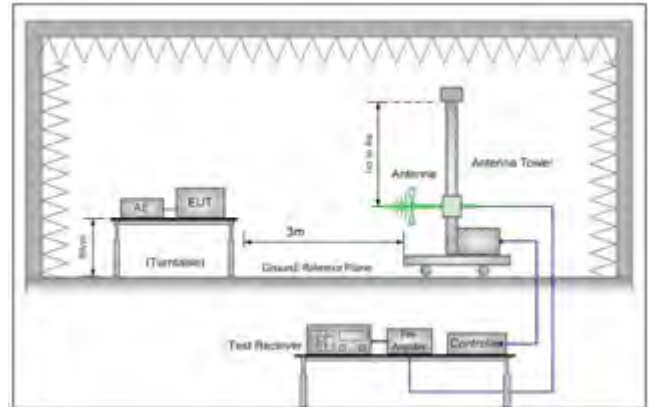


Figure 2. 30MHz to 1GHz

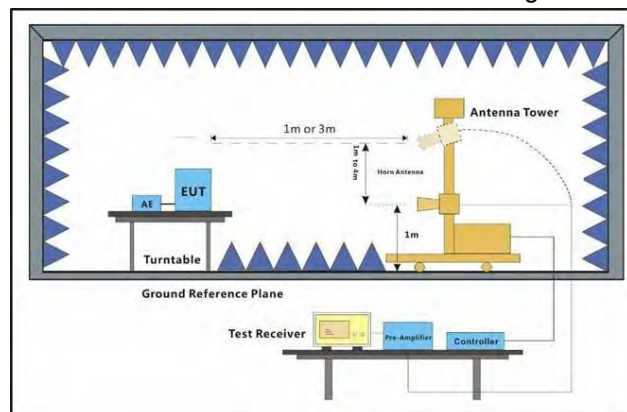


Figure 3. Above 1 GHz

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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	maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. 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. i. Repeat above procedures until all frequencies measured was complete. 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 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. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. 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:

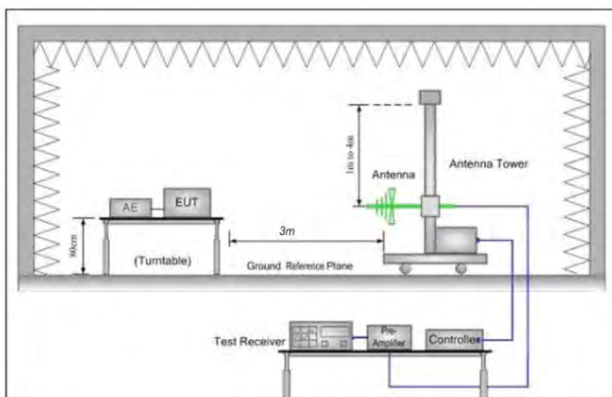


Figure 1. 30MHz to 1GHz

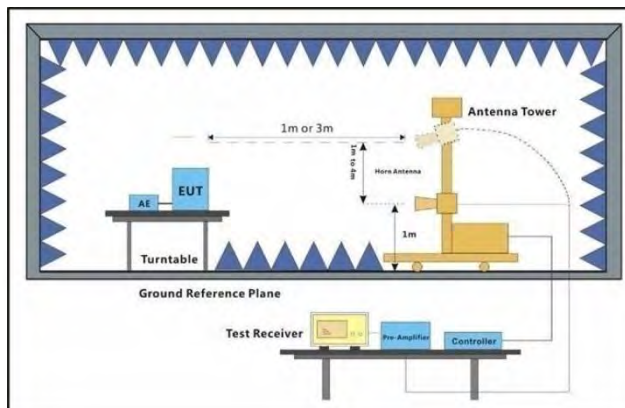


Figure 2. Above 1 GHz



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Test Procedure:	a. 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. b. 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. c. 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. d. 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. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. 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. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.



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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	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\text{ GHz}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\text{ GHz}$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)
		$\pm 4.80\text{dB}$ (1GHz to 18GHz)
		$\pm 4.80\text{dB}$ (Above 18GHz)

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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
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
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	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-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	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	8.64	2407.40	2416.04	≥0.5	PASS
		2437	8.60	2432.92	2441.52	≥0.5	PASS
		2462	8.16	2457.88	2466.04	≥0.5	PASS
11G	Ant1	2412	15.44	2404.16	2419.60	≥0.5	PASS
		2437	15.56	2429.04	2444.60	≥0.5	PASS
		2462	15.20	2454.36	2469.56	≥0.5	PASS
11N20SISO	Ant1	2412	15.72	2404.16	2419.88	≥0.5	PASS
		2437	15.24	2429.36	2444.60	≥0.5	PASS
		2462	15.20	2454.36	2469.56	≥0.5	PASS



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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



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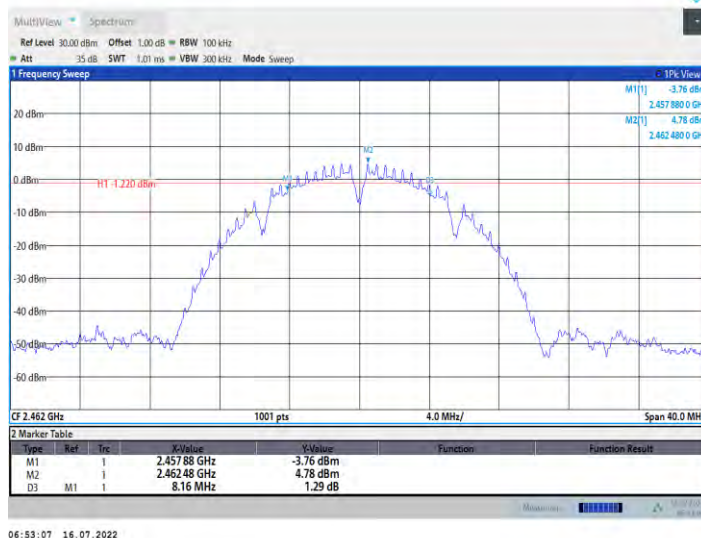
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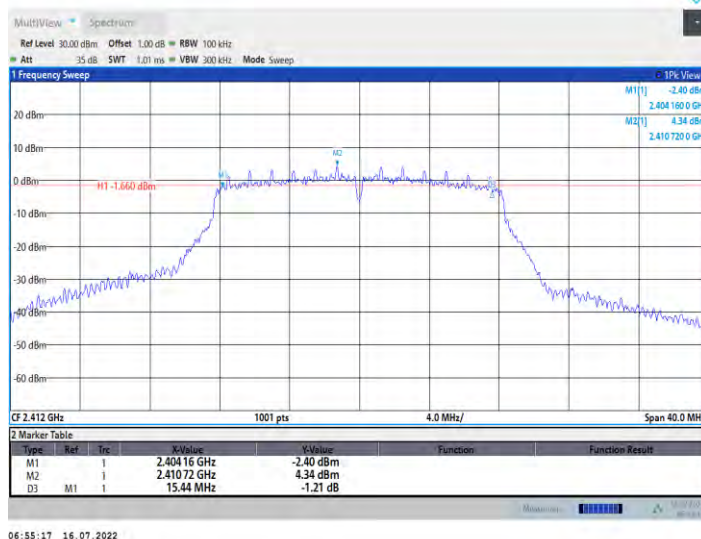
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11B_Ant1_2462



11G_Ant1_2412



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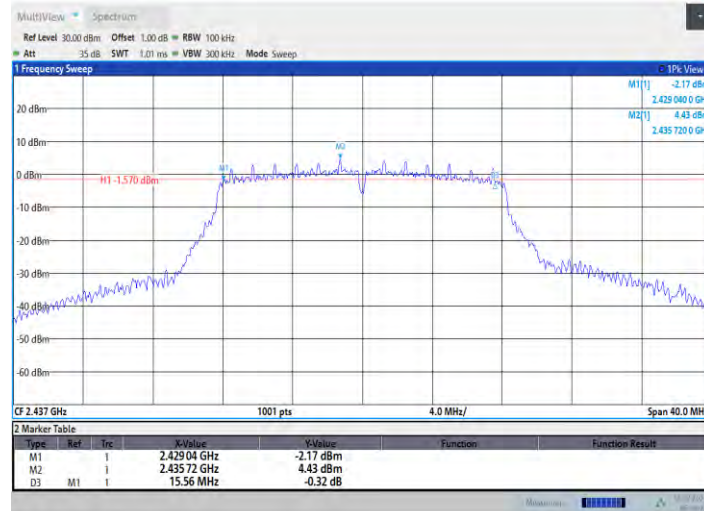
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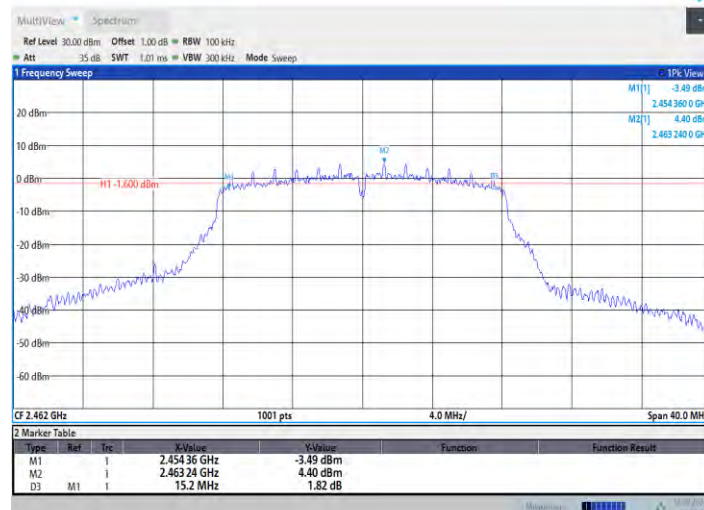
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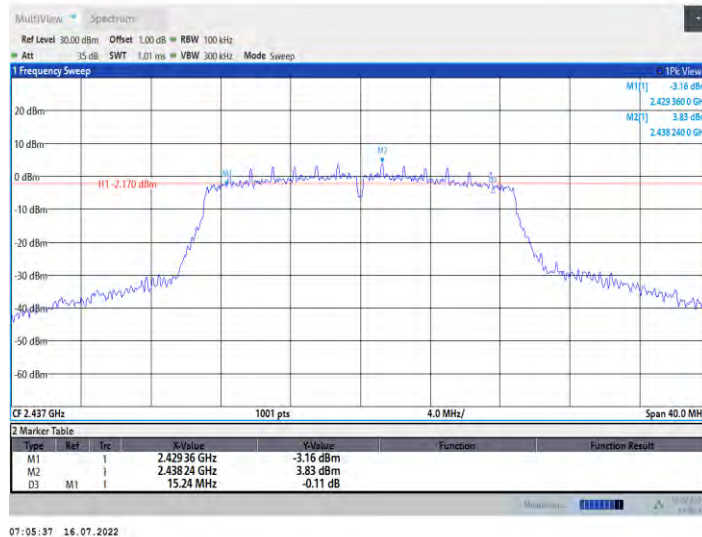
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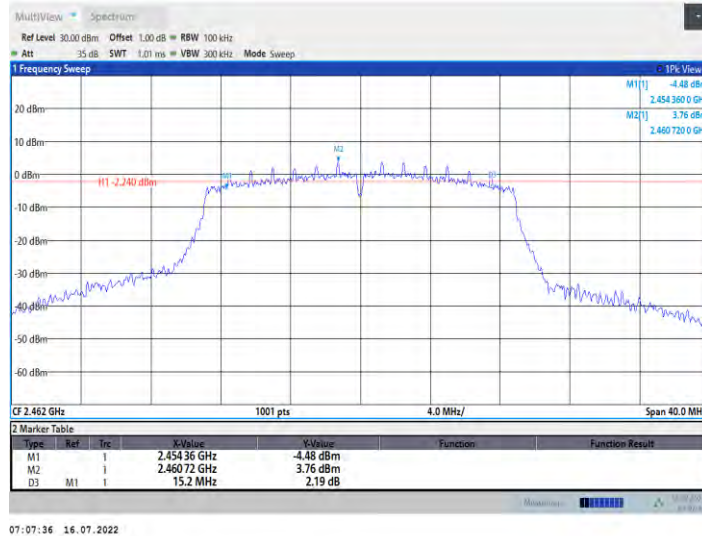
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.883	2405.437	2418.320	---	---
		2437	12.883	2430.658	2443.541	---	---
		2462	12.843	2455.478	2468.321	---	---
11G	Ant1	2412	17.153	2403.383	2420.535	---	---
		2437	17.188	2428.429	2445.617	---	---
		2462	17.013	2453.450	2470.463	---	---
11N20SISO	Ant1	2412	18.023	2402.961	2420.983	---	---
		2437	18.104	2427.957	2446.062	---	---
		2462	17.978	2452.958	2470.936	---	---



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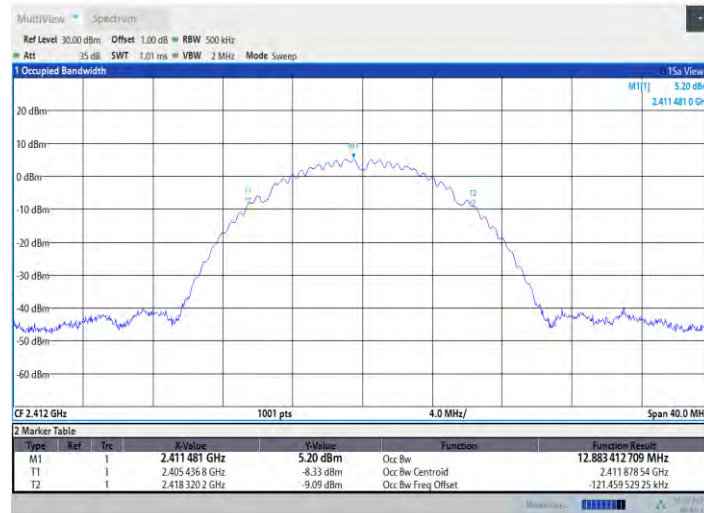
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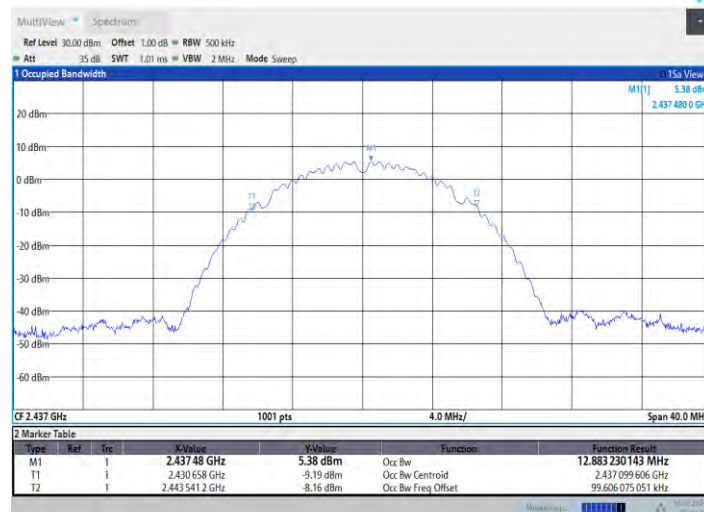
Test Graphs

11B_Ant1_2412



06:45:14 16.07.2022

11B_Ant1_2437



06:50:21 16.07.2022



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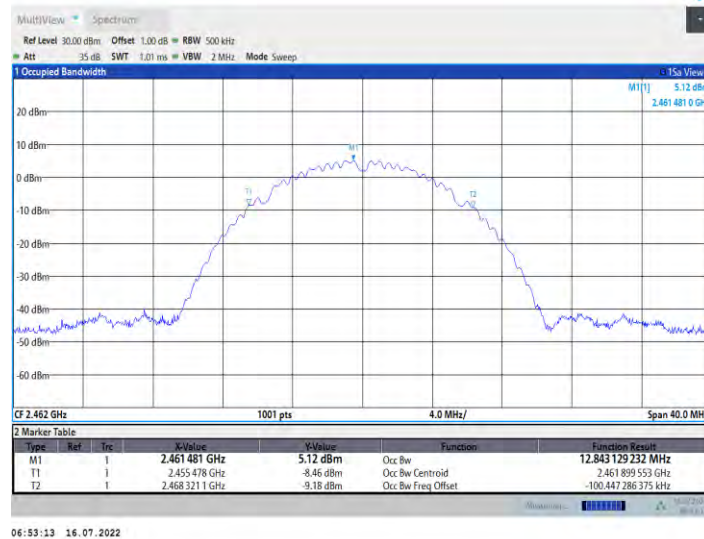
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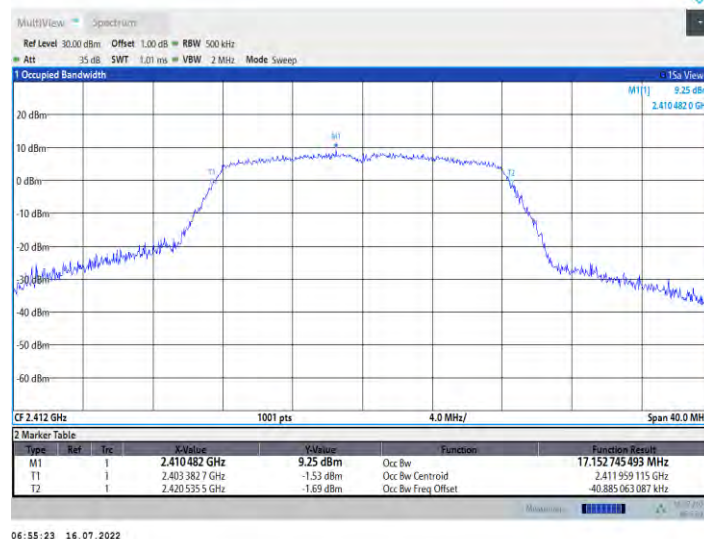
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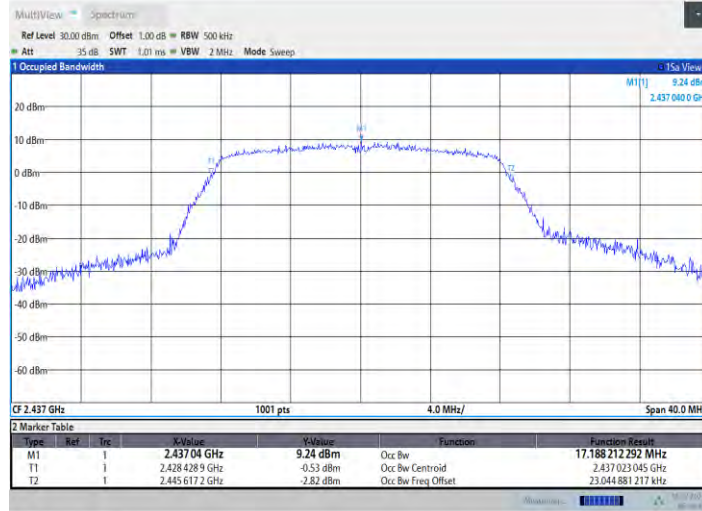
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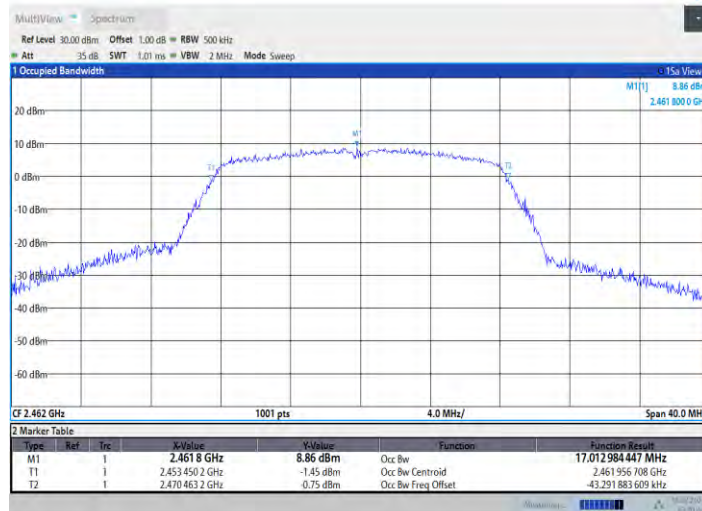
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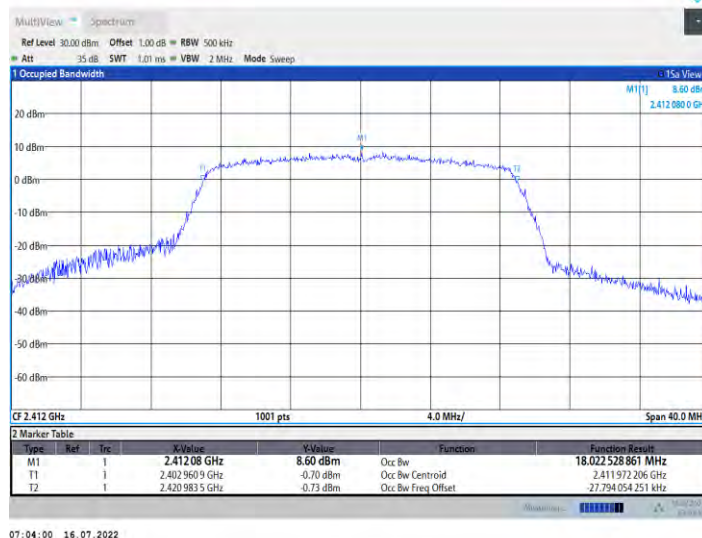
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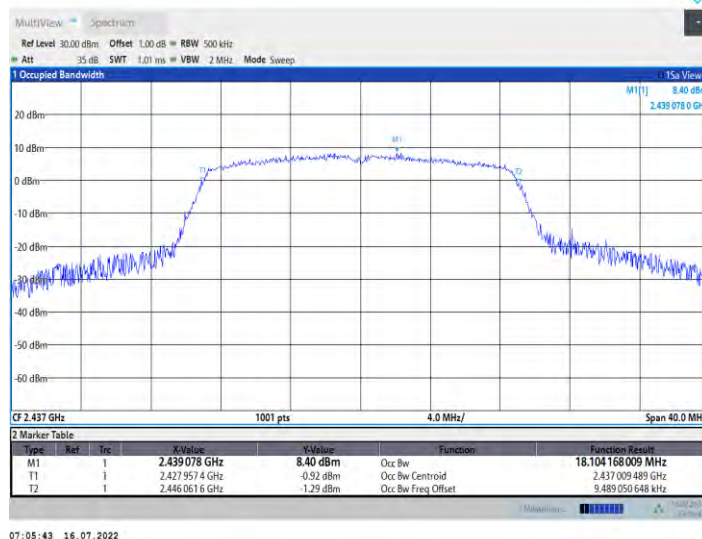
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11N20SISO_Ant1_2412



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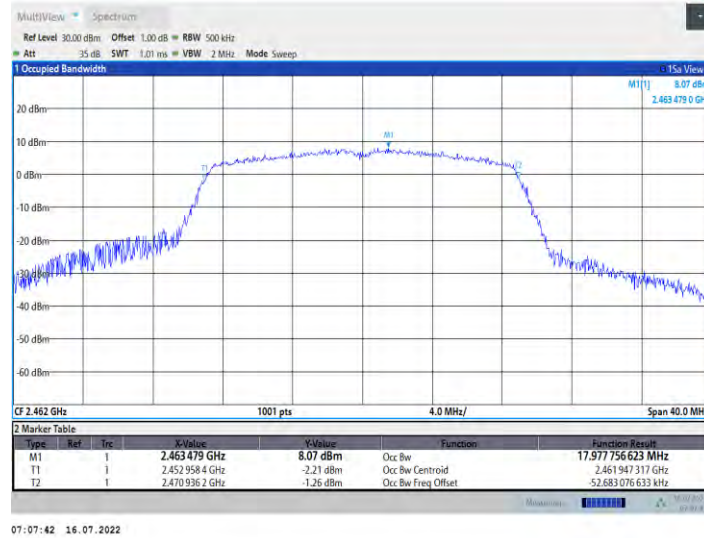
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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.35	≤30.00	PASS
		2437	15.41	≤30.00	PASS
		2462	15.38	≤30.00	PASS
11G	Ant1	2412	23.41	≤30.00	PASS
		2437	23.42	≤30.00	PASS
		2462	23.35	≤30.00	PASS
11N20SISO	Ant1	2412	23.21	≤30.00	PASS
		2437	23.32	≤30.00	PASS
		2462	23.2	≤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	-9.18	≤8.00	PASS
		2437	-8.58	≤8.00	PASS
		2462	-8.94	≤8.00	PASS
11G	Ant1	2412	-9.57	≤8.00	PASS
		2437	-9.29	≤8.00	PASS
		2462	-10.93	≤8.00	PASS
11N20SISO	Ant1	2412	-10.02	≤8.00	PASS
		2437	-9.87	≤8.00	PASS
		2462	-11.31	≤8.00	PASS



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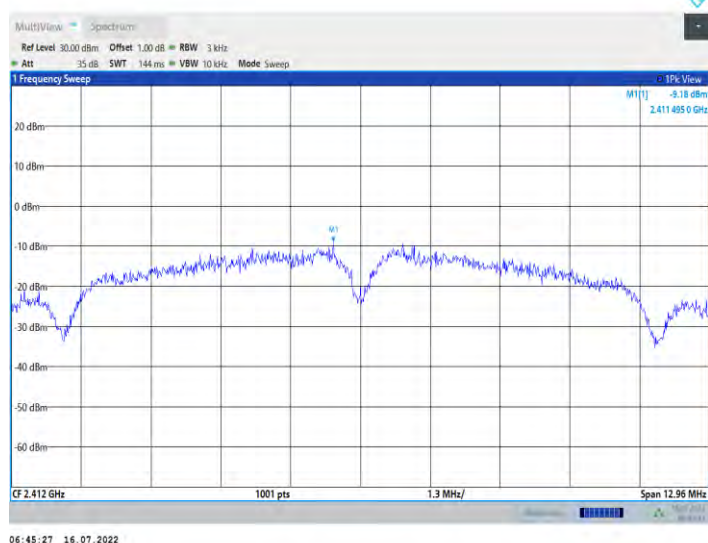
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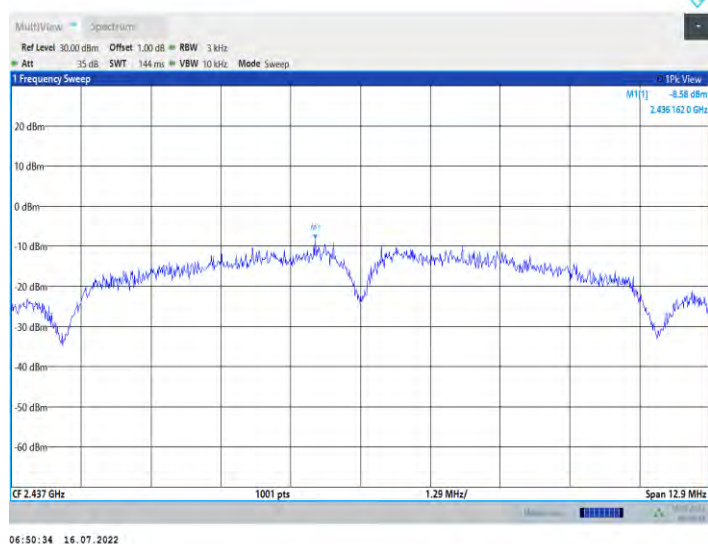
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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



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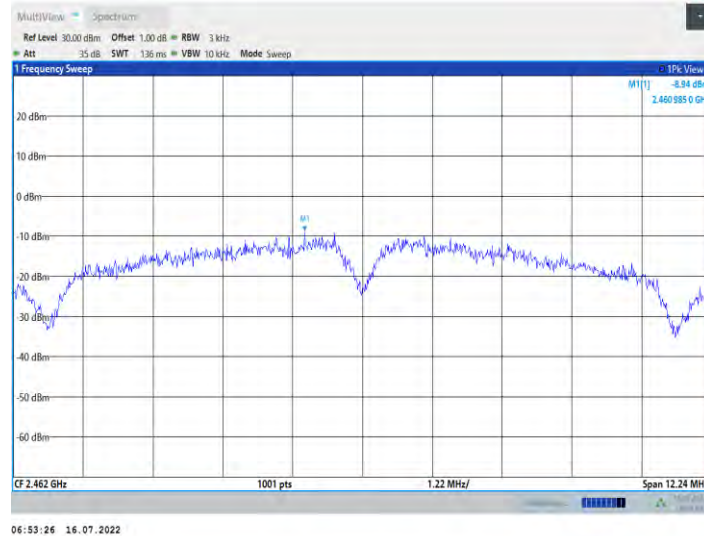
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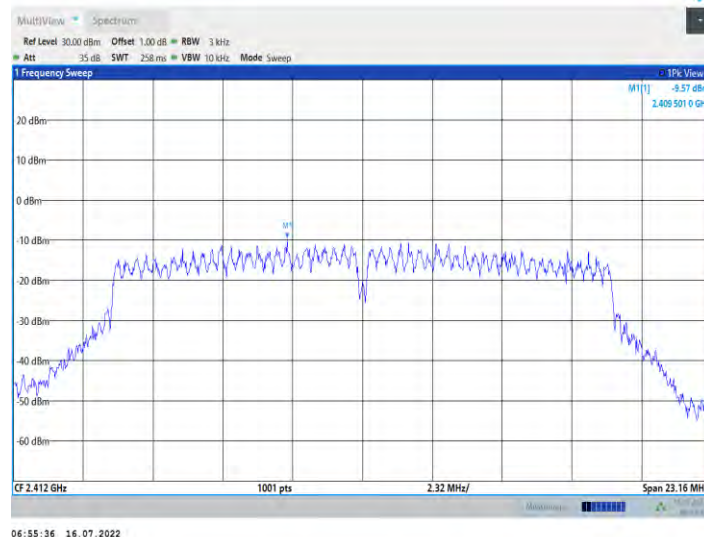
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11G_Ant1_2412



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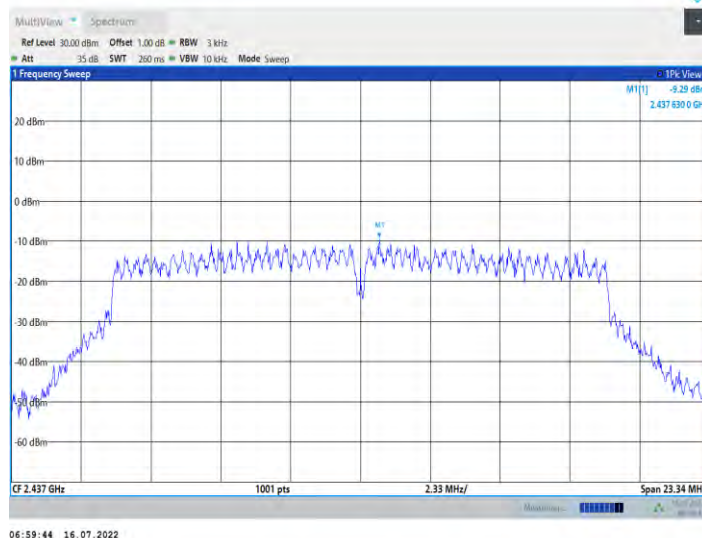
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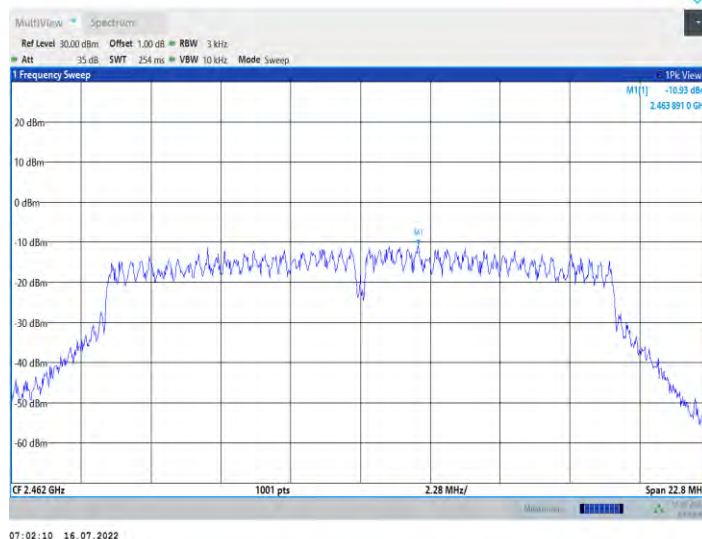
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11G_Ant1_2437



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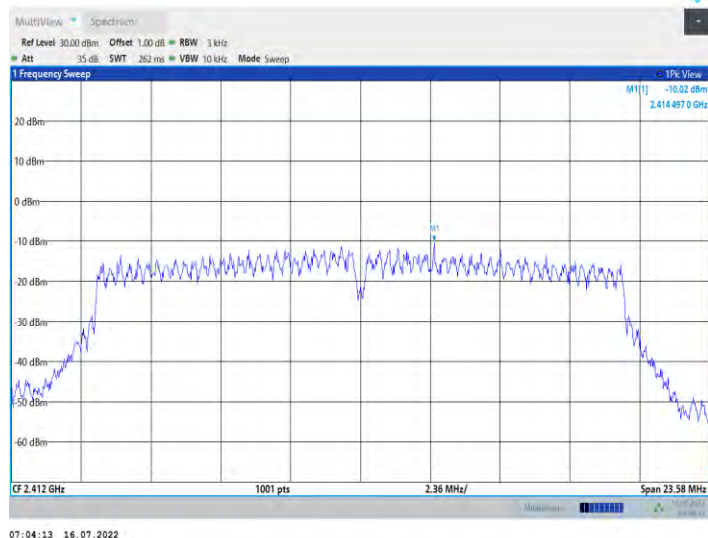
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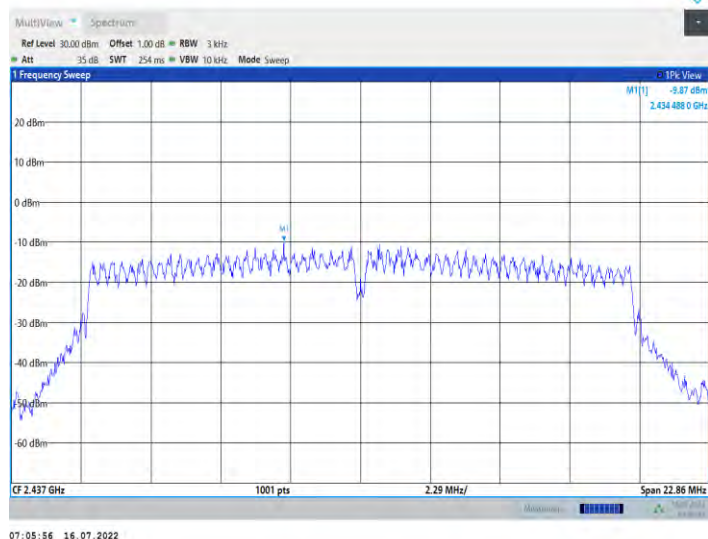
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11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



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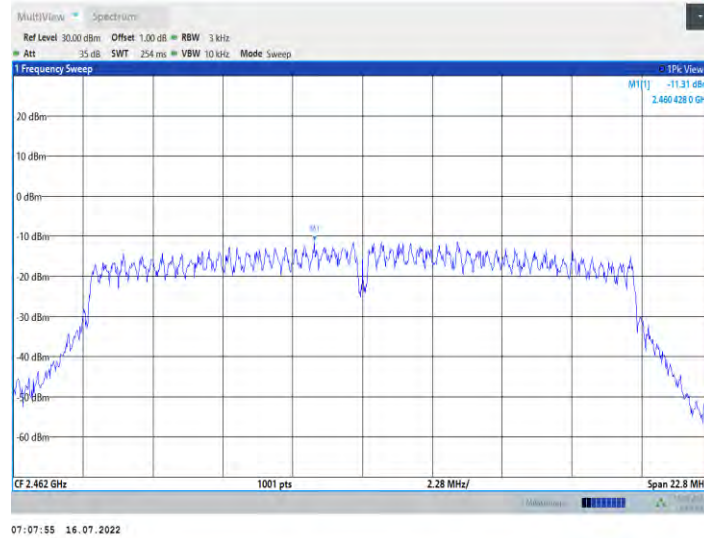
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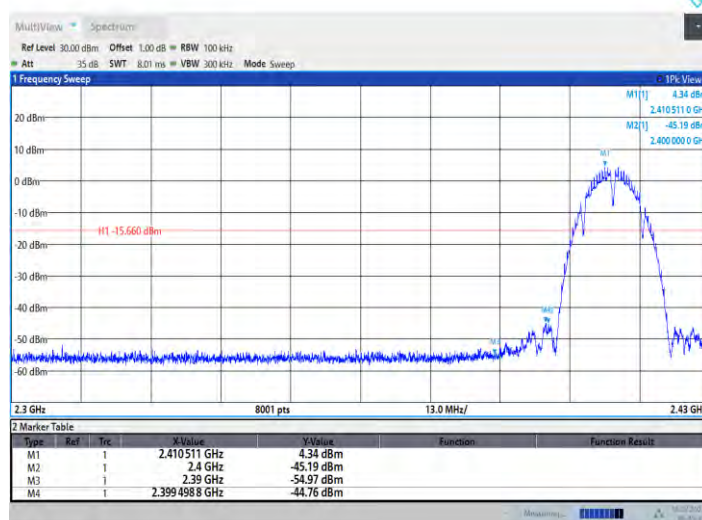
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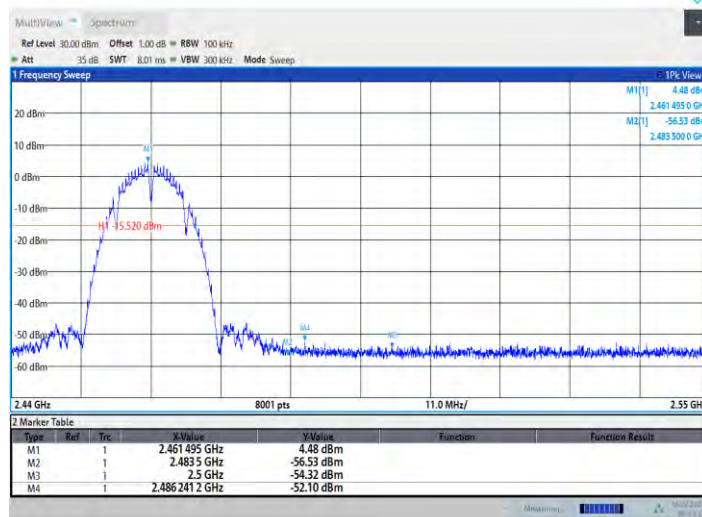
Band edge measurements Test Graphs

11B_Ant1_Low_2412



06:45:34 16.07.2022

11B_Ant1_High_2462



06:53:33 16.07.2022



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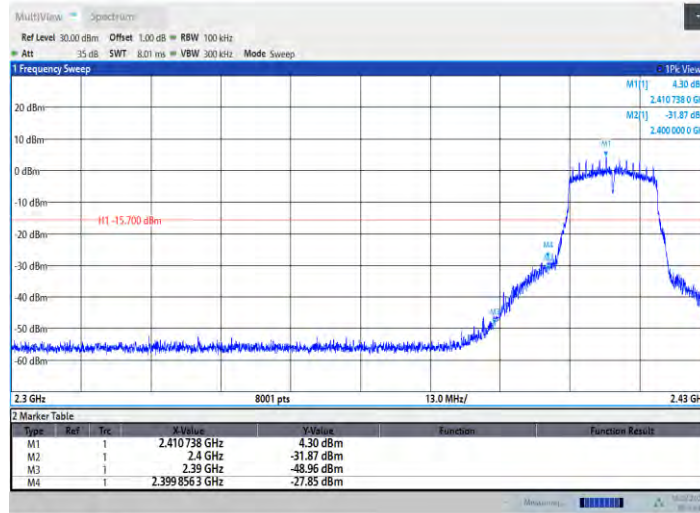
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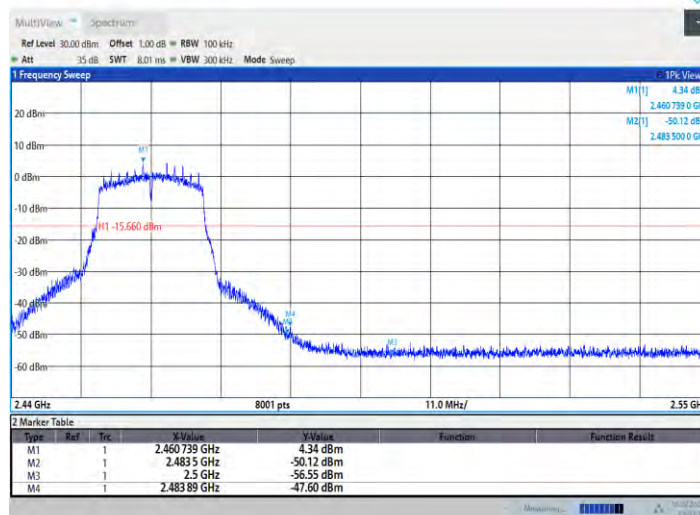
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07:02:16 16.07.2022



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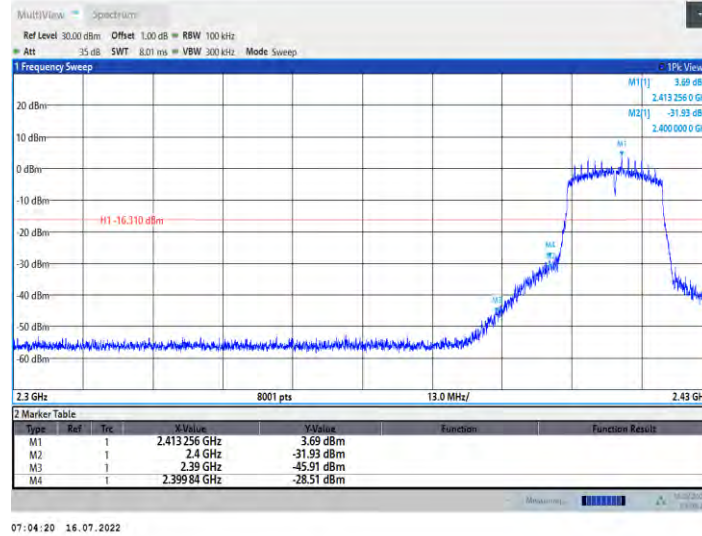
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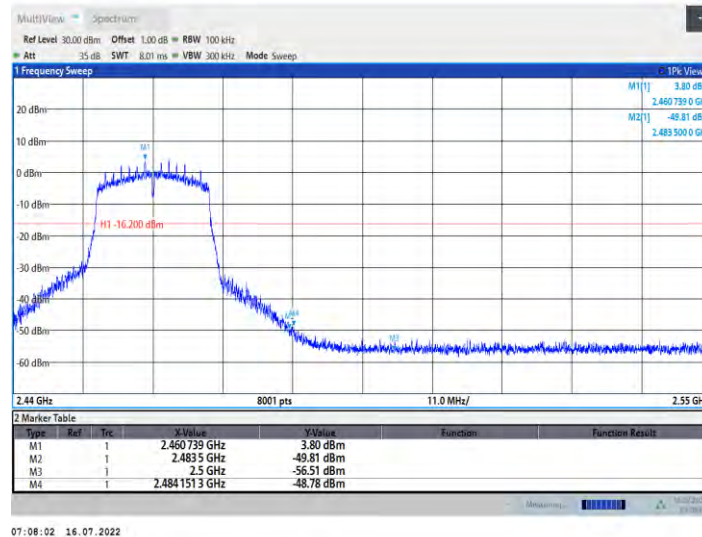
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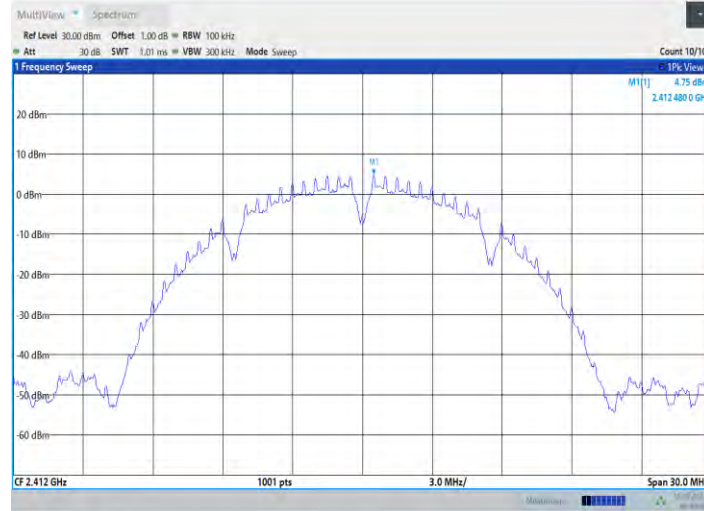
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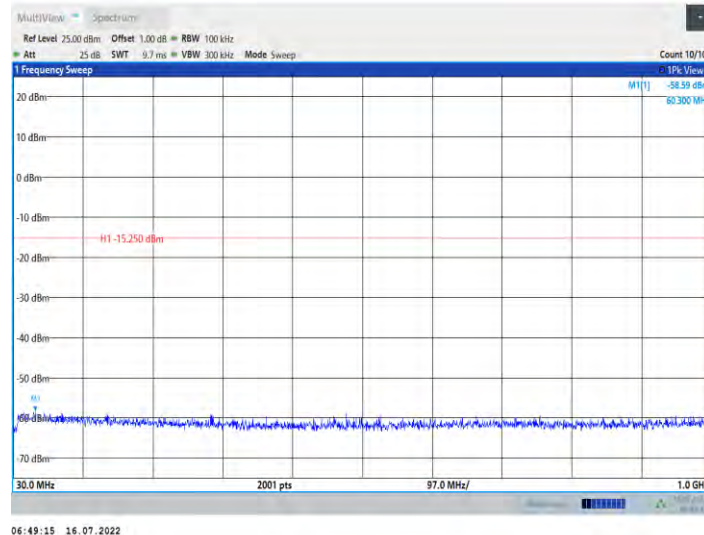
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Conducted Spurious Emission Test Graphs

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11B_Ant1_2412_30~1000



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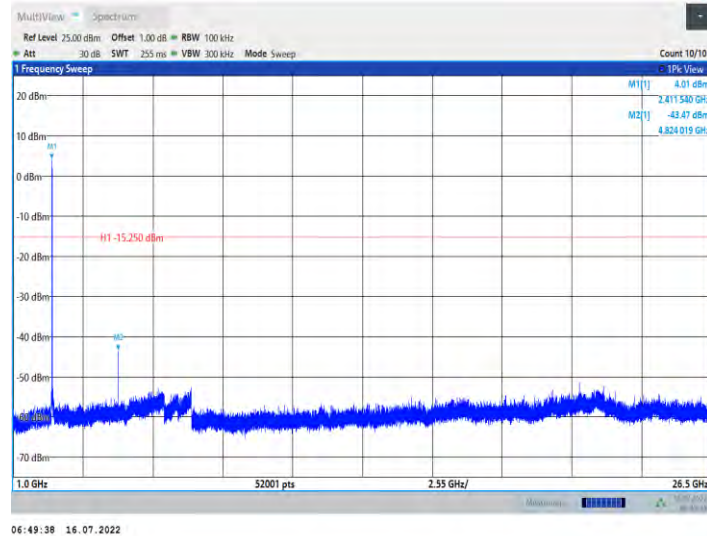
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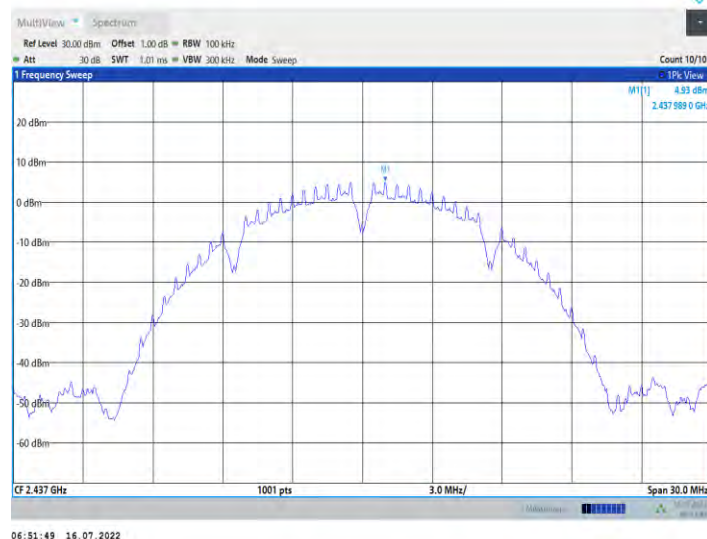
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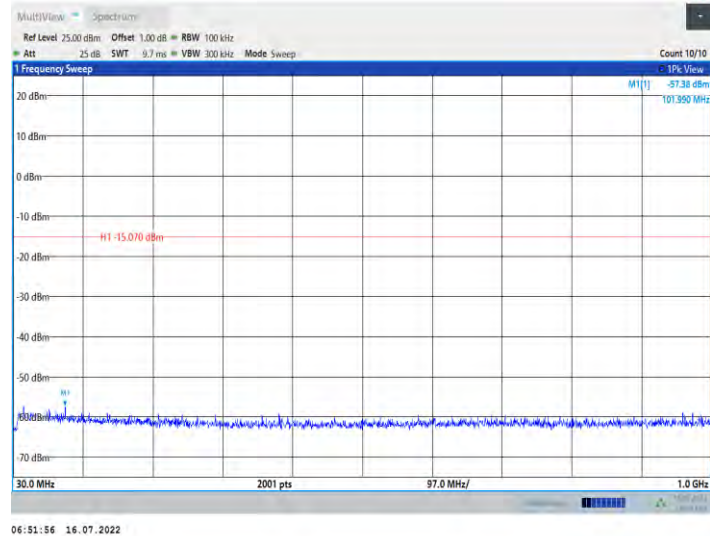
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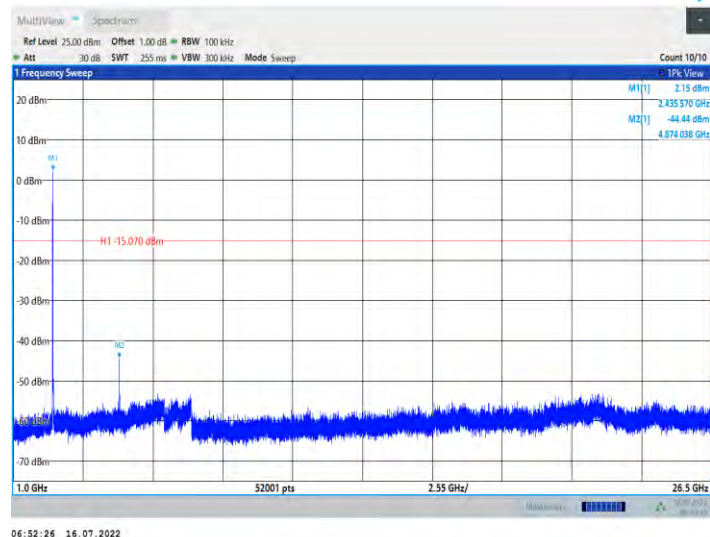
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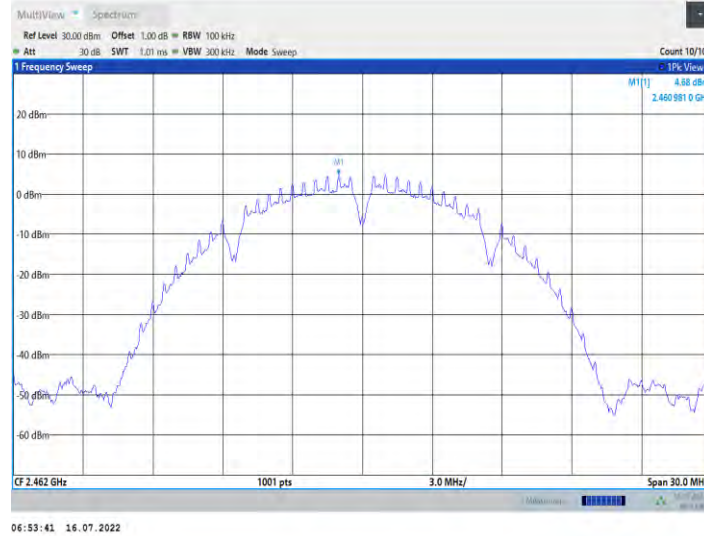
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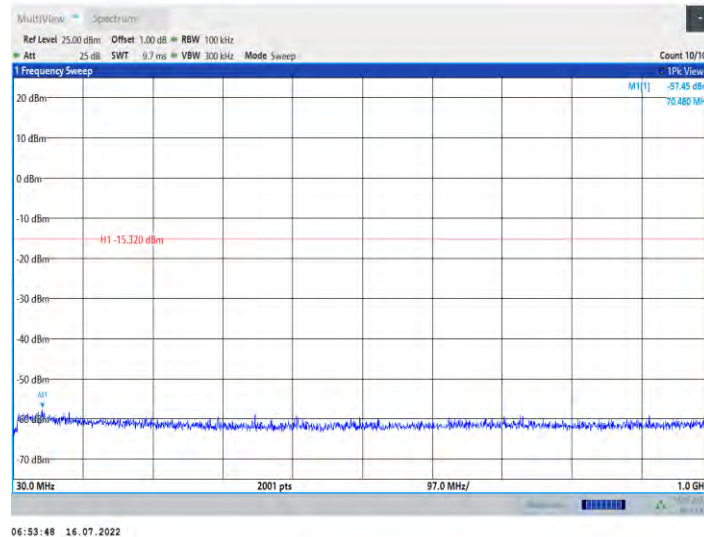
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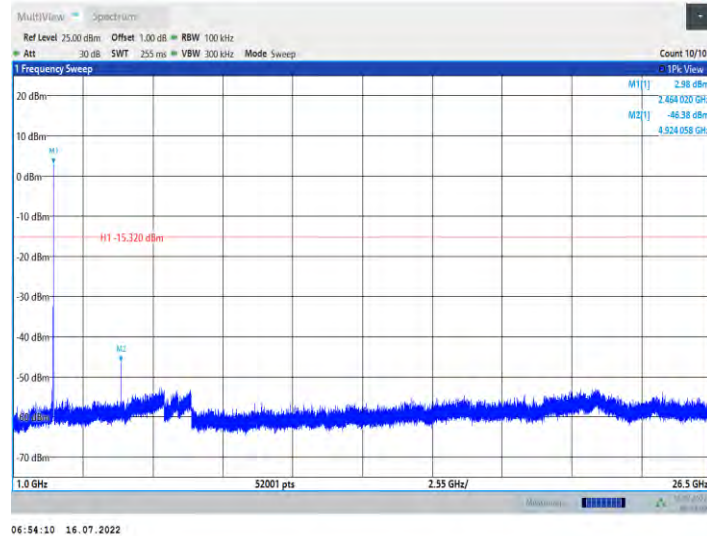
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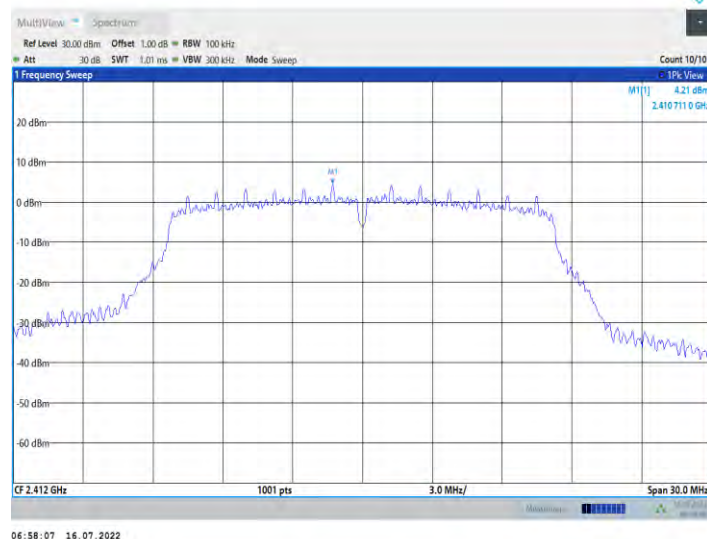
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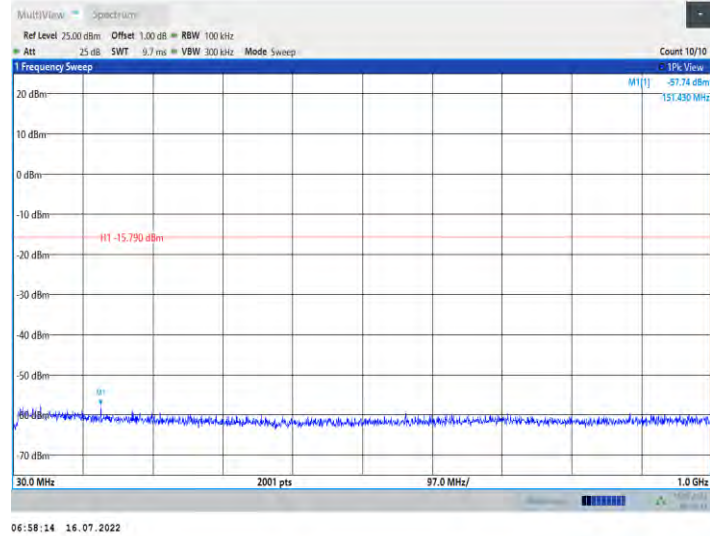
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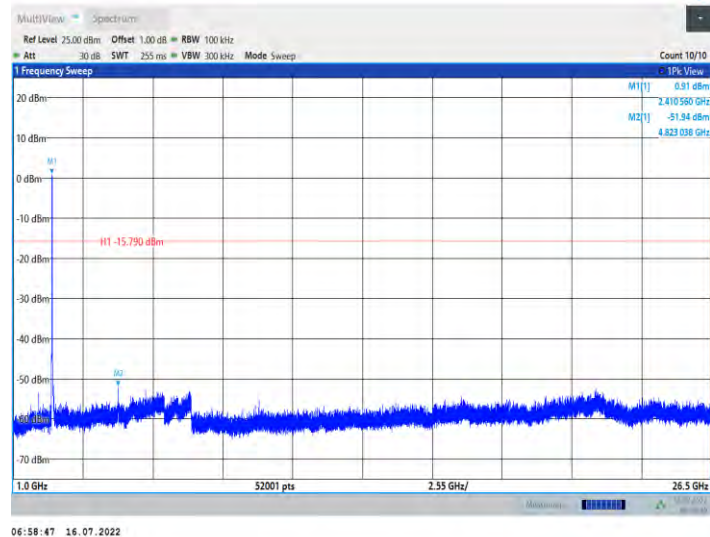
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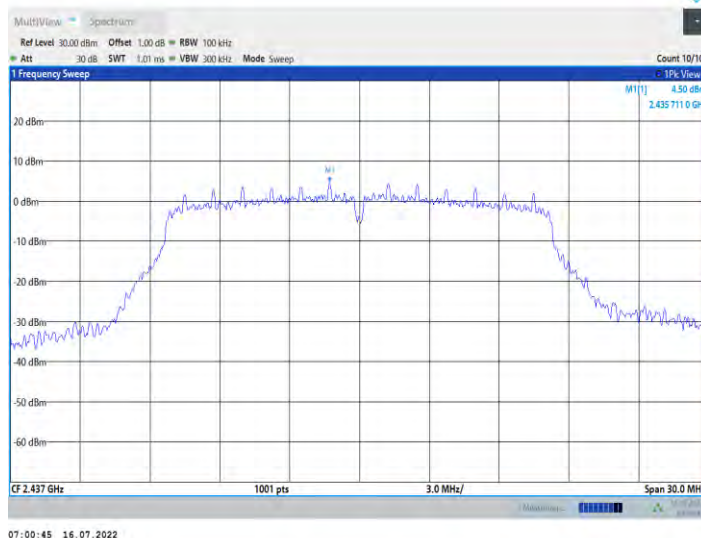
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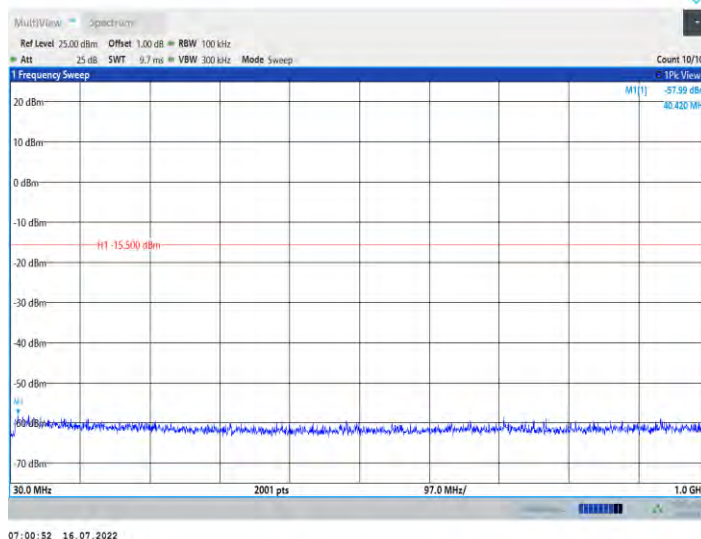
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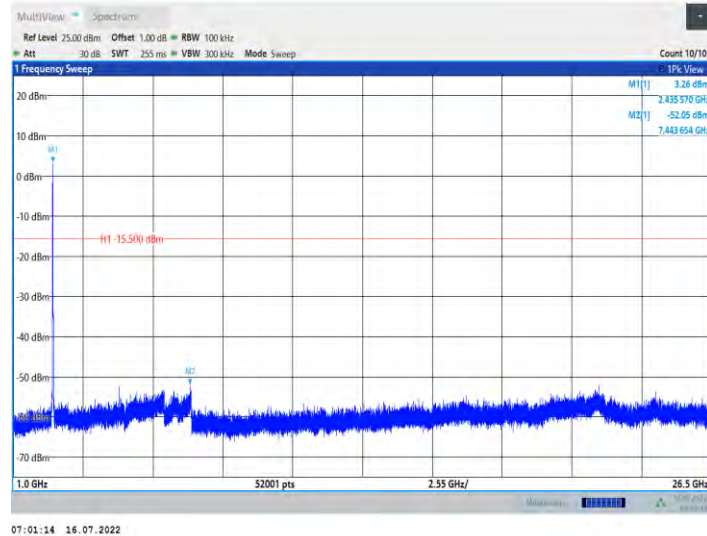
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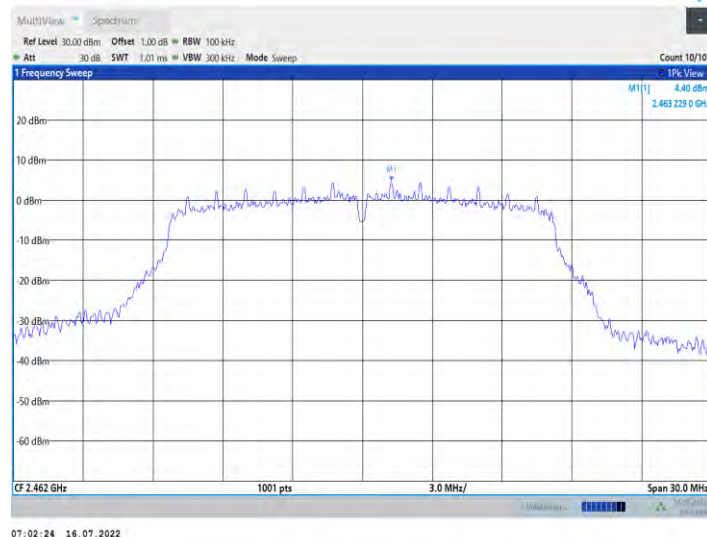
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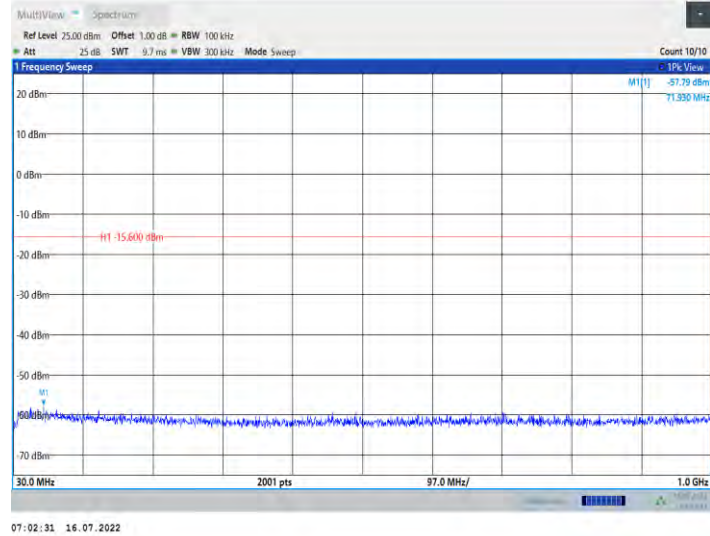
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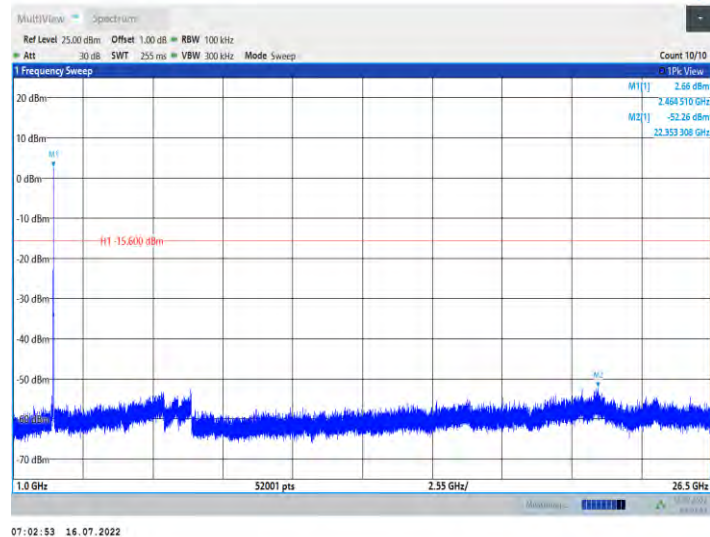
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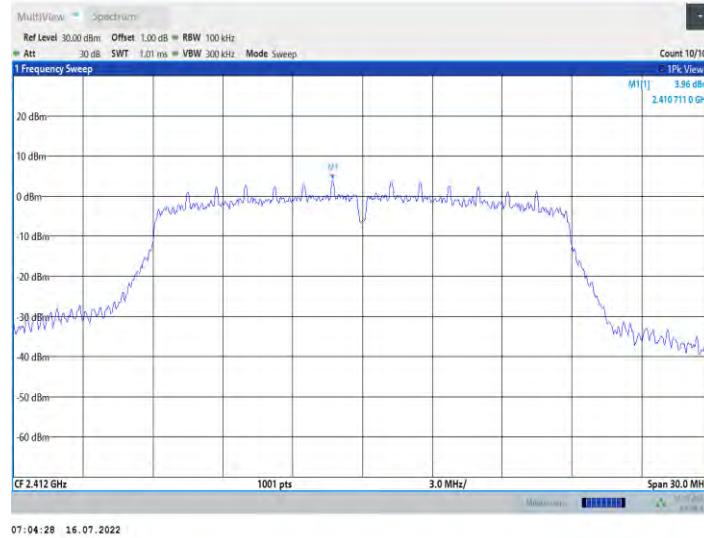
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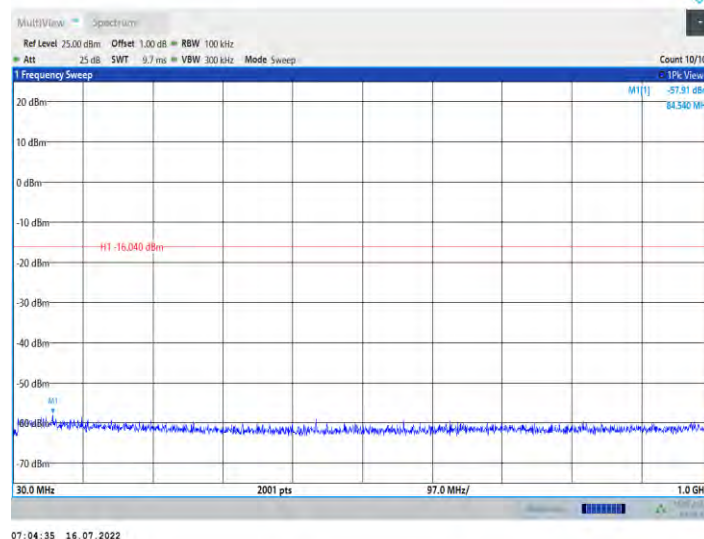
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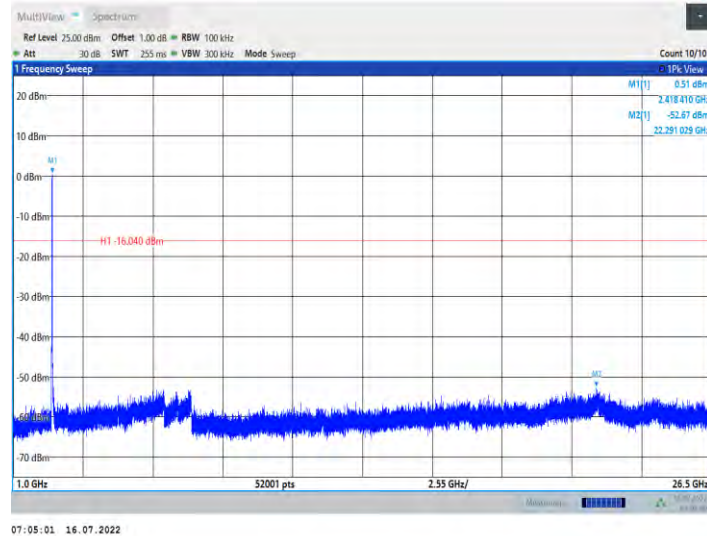
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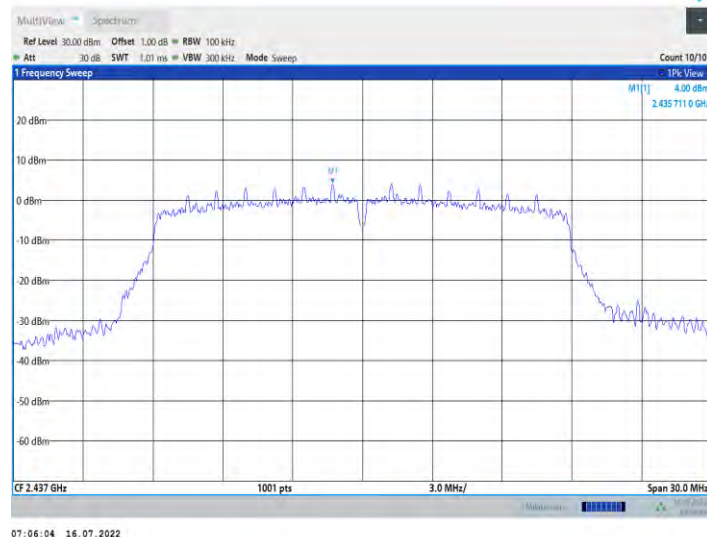
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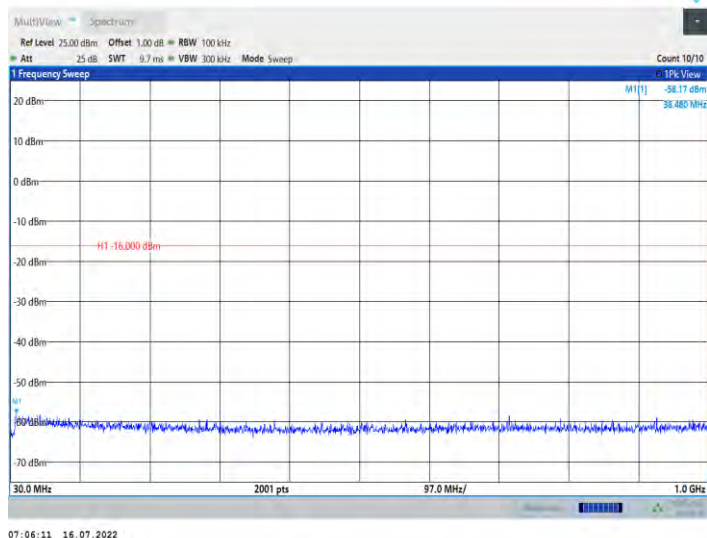
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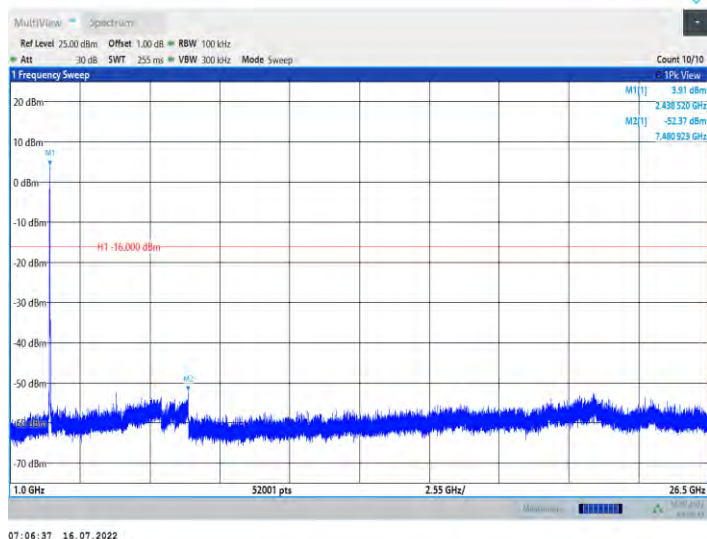
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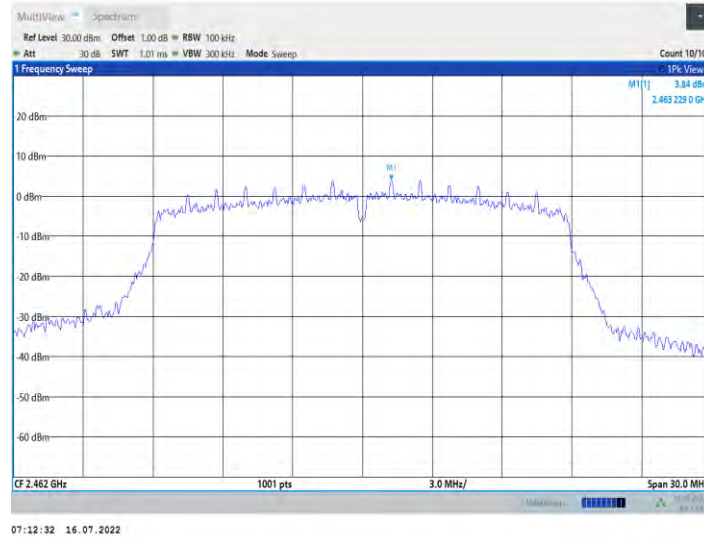
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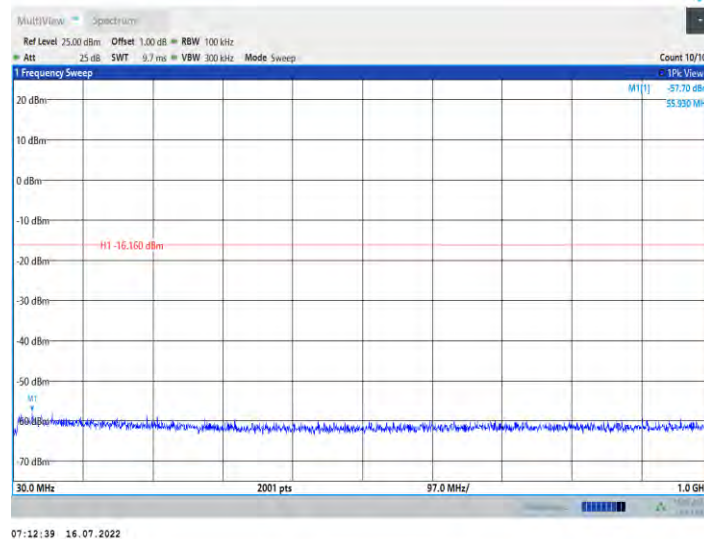
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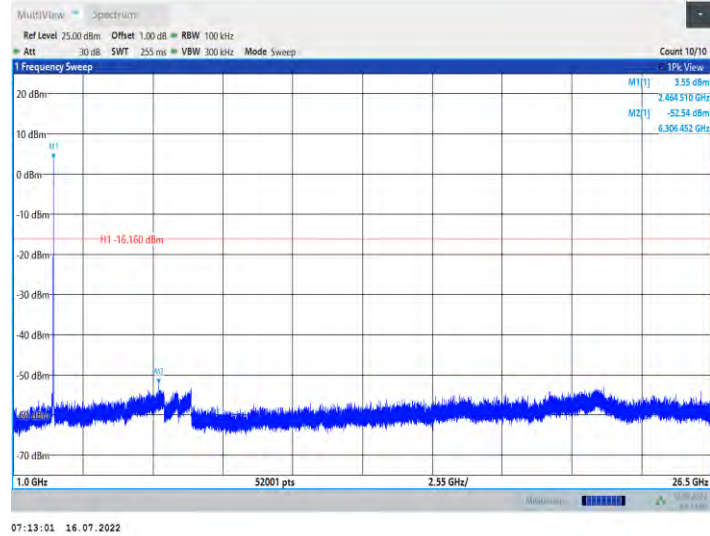
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.42	99.64
11G	Ant1	2412	1.39	1.43	97.20
11N20SISO	Ant1	2412	1.30	1.34	97.01



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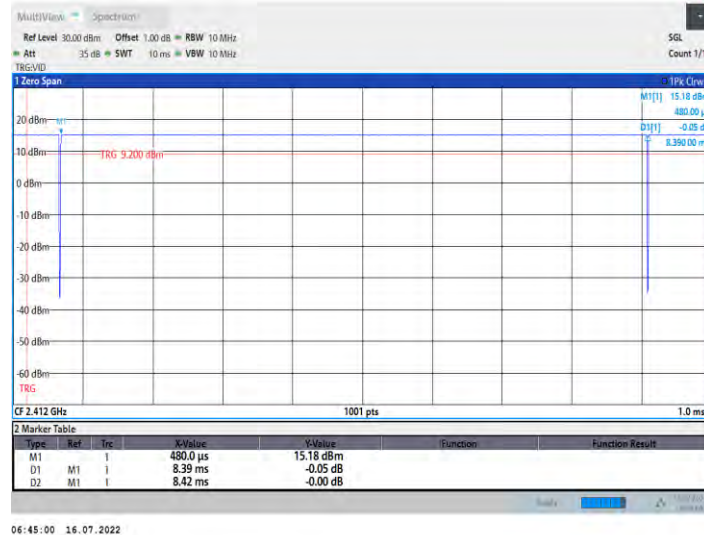
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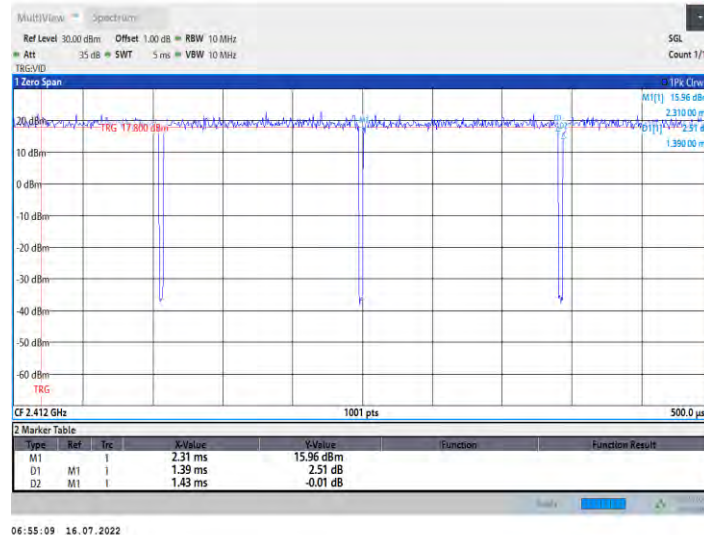
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Test Graphs

11B_Ant1_2412



11G_Ant1_2412



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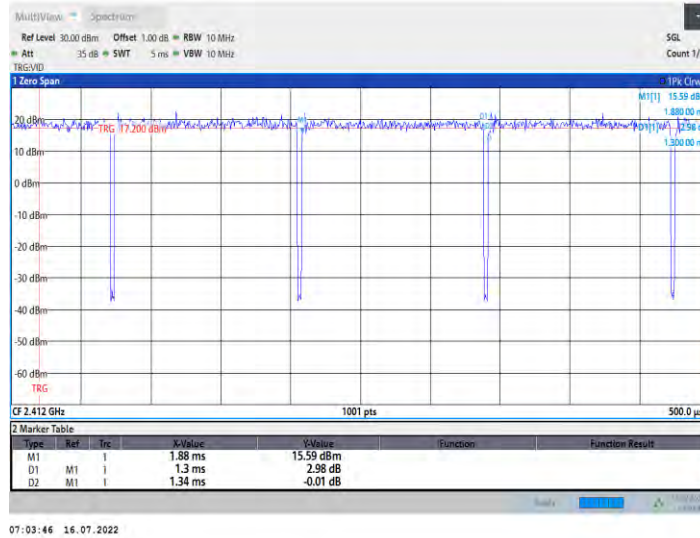
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11N20SISO_Ant1_2412



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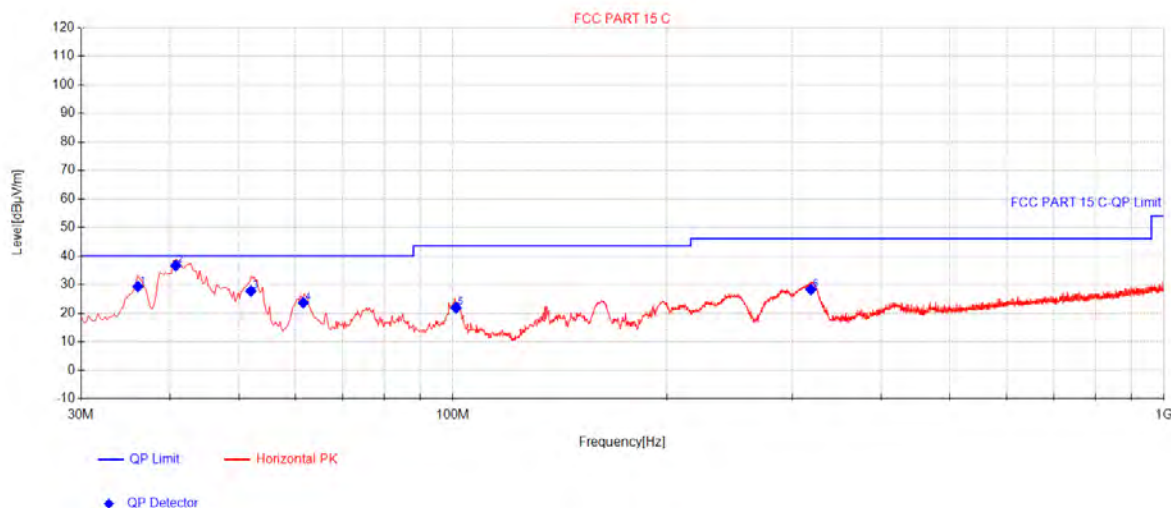
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11b_Channel 01



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	36.0688	46.58	-28.28	11.00	29.30	40.00	10.70	136	147	Horizontal
2	40.7680	52.42	-28.07	12.28	36.63	40.00	3.37	106	91	Horizontal
3	51.9914	42.34	-27.93	13.30	27.71	40.00	12.29	116	237	Horizontal
4	61.6030	40.35	-27.65	10.92	23.62	40.00	16.38	169	114	Horizontal
5	101.0289	38.42	-27.36	10.79	21.85	43.50	21.65	212	35	Horizontal
6	318.8120	40.91	-26.38	13.72	28.25	46.00	17.75	106	96	Horizontal



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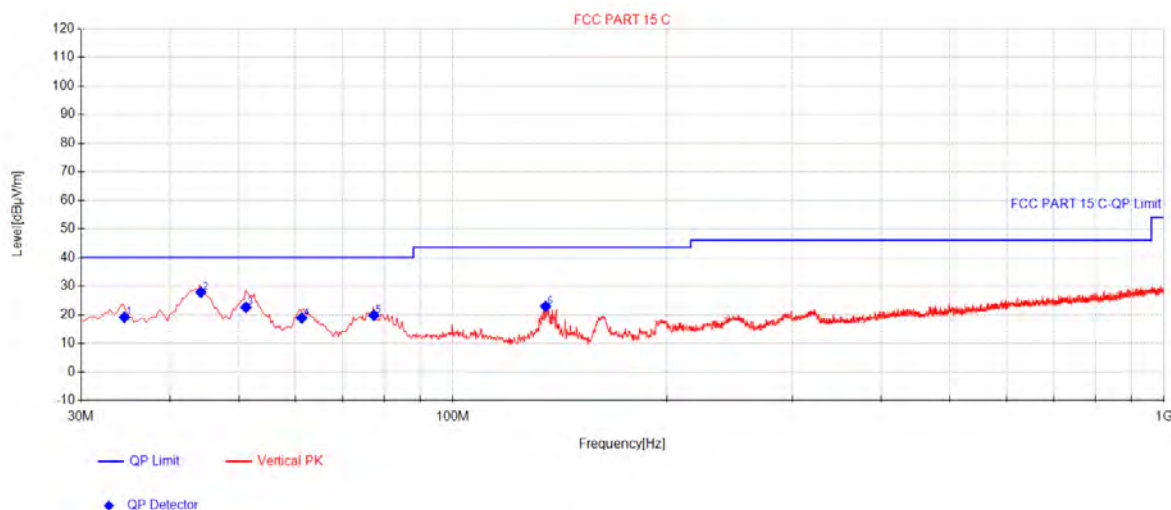
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Final Data List

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	34.5271	36.78	-28.36	10.65	19.07	40.00	20.93	112	359	Vertical
2	44.2251	42.95	-28.05	12.91	27.81	40.00	12.19	103	215	Vertical
3	51.1596	37.02	-27.97	13.54	22.59	40.00	17.41	110	7	Vertical
4	61.2953	35.51	-27.65	10.99	18.85	40.00	21.15	106	71	Vertical
5	77.4218	40.16	-27.89	7.46	19.73	40.00	20.27	189	99	Vertical
6	135.0045	42.15	-27.14	7.85	22.86	43.50	20.64	115	148	Vertical



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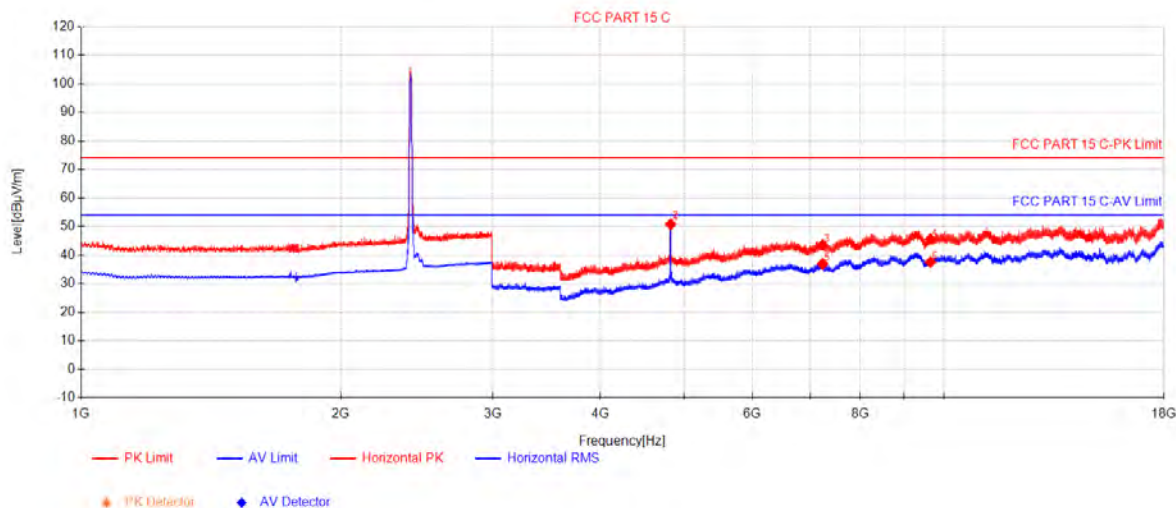
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Transmitter emission Above 1GHz

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	4824.5	63.16	32.18	-44.55	50.79	54.00	3.21	163	334	Horizontal
2	4824	64.19	32.18	-44.55	51.82	74.00	22.18	251	334	Horizontal
3	7236	49.27	36.34	-42.08	43.53	74.00	30.47	163	256	Horizontal
4	9648	44.87	38.54	-37.82	45.58	74.00	28.42	241	26	Horizontal
5	7236	42.61	36.34	-42.08	36.87	54.00	17.13	255	0	Horizontal
6	9648	36.78	38.54	-37.82	37.49	54.00	16.51	144	231	Horizontal



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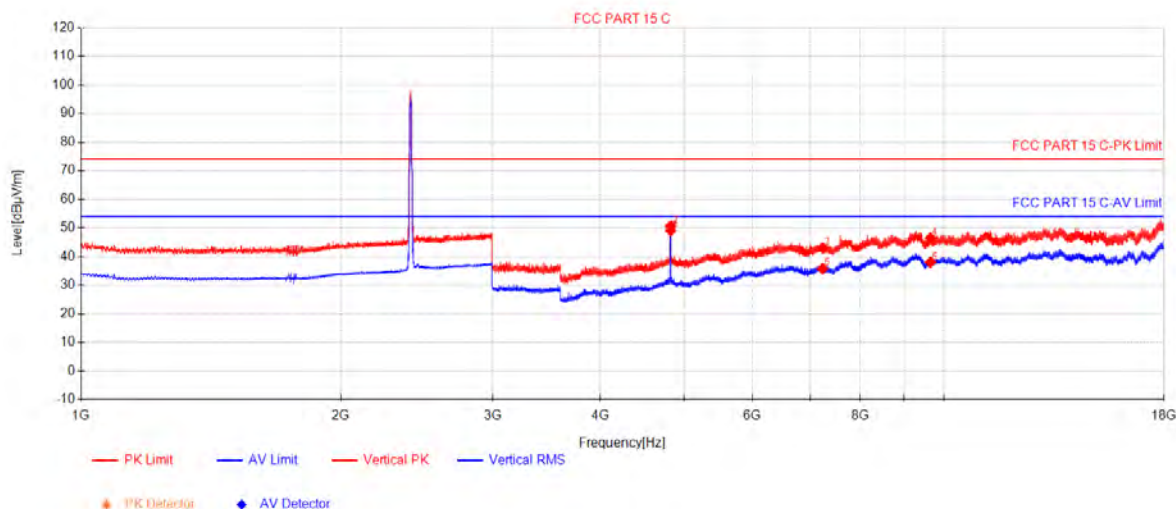
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802.11b_Channel 01



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	4824.5	61.39	32.18	-44.55	49.02	54.00	4.98	163	27	Vertical
2	4824	63.04	32.18	-44.55	50.67	74.00	23.33	251	6	Vertical
3	7236	48.74	36.34	-42.08	43.00	74.00	31.00	174	155	Vertical
4	9648	45.70	38.54	-37.82	46.41	74.00	27.59	185	128	Vertical
5	7236	41.48	36.34	-42.08	35.74	54.00	18.26	263	357	Vertical
6	9648	37.26	38.54	-37.82	37.97	54.00	16.03	255	357	Vertical



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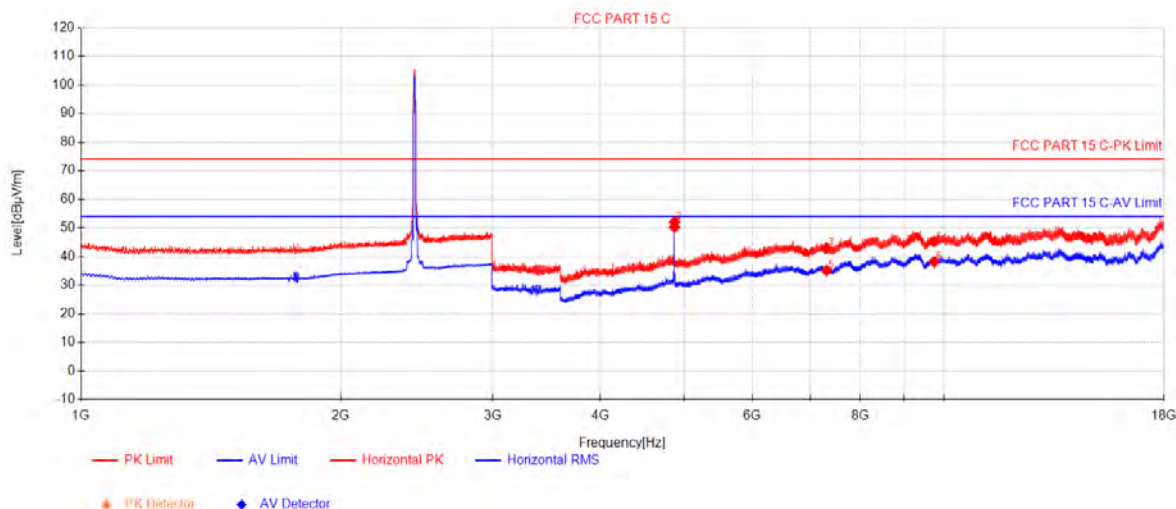
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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.5	62.79	32.30	-44.77	50.32	54.00	3.68	142	6	Horizontal
2	4874	64.48	32.30	-44.77	52.01	74.00	21.99	286	6	Horizontal
3	7311	48.36	36.39	-41.78	42.96	74.00	31.04	265	101	Horizontal
4	9748	44.21	38.53	-37.51	45.22	74.00	28.78	241	26	Horizontal
5	7311	40.47	36.39	-41.78	35.07	54.00	18.93	196	6	Horizontal
6	9748	37.13	38.53	-37.51	38.14	54.00	15.86	362	152	Horizontal



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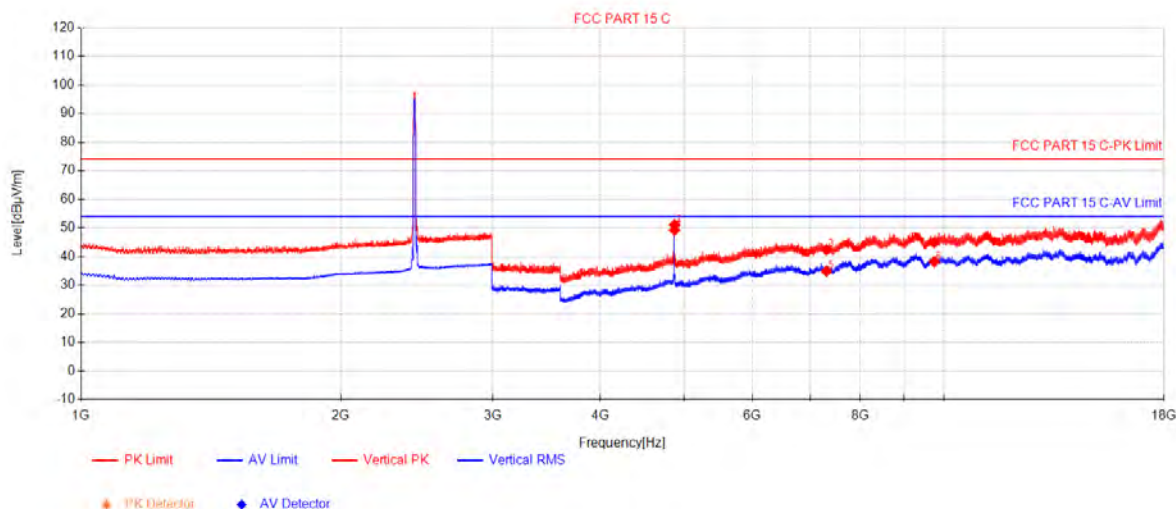
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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.5	61.65	32.30	-44.77	49.18	54.00	4.82	142	0	Vertical
2	4874	63.47	32.30	-44.77	51.00	74.00	23.00	286	1	Vertical
3	7311	47.81	36.39	-41.78	42.41	74.00	31.59	263	255	Vertical
4	9748	43.80	38.53	-37.51	44.81	74.00	29.19	251	156	Vertical
5	7311	40.26	36.39	-41.78	34.86	54.00	19.14	144	181	Vertical
6	9748	37.20	38.53	-37.51	38.21	54.00	15.79	196	255	Vertical



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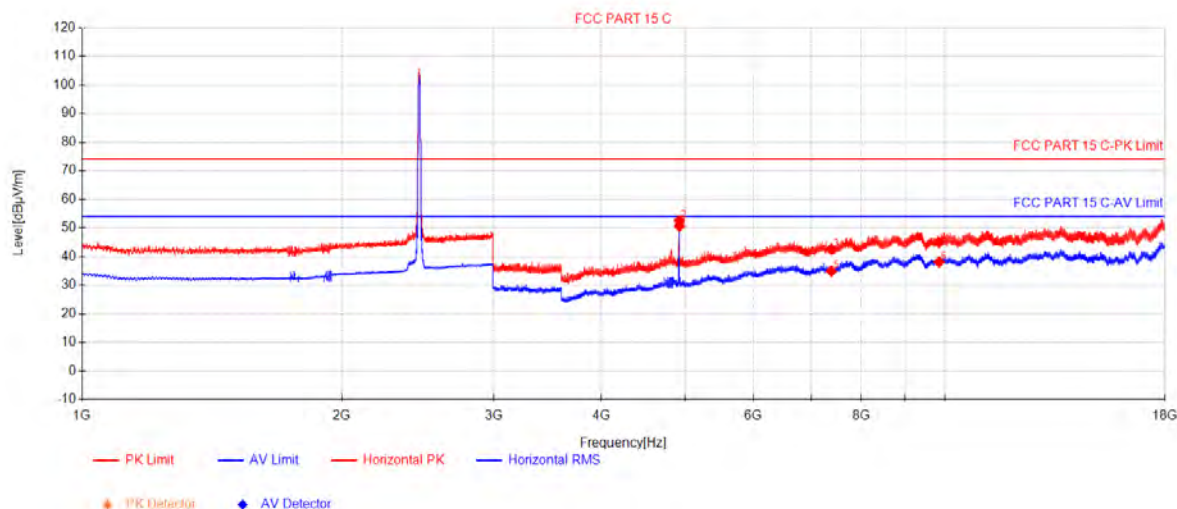
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802.11b_Channel 11



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	4924.5	63.13	32.42	-44.89	50.65	54.00	3.35	142	357	Horizontal
2	4924	64.97	32.42	-44.89	52.49	74.00	21.51	286	306	Horizontal
3	7386	48.06	36.43	-41.95	42.54	74.00	31.46	263	25	Horizontal
4	9848	43.74	38.52	-37.38	44.88	74.00	29.12	251	77	Horizontal
5	7386	40.39	36.43	-41.95	34.87	54.00	19.13	144	257	Horizontal
6	9848	36.94	38.52	-37.38	38.08	54.00	15.92	298	229	Horizontal



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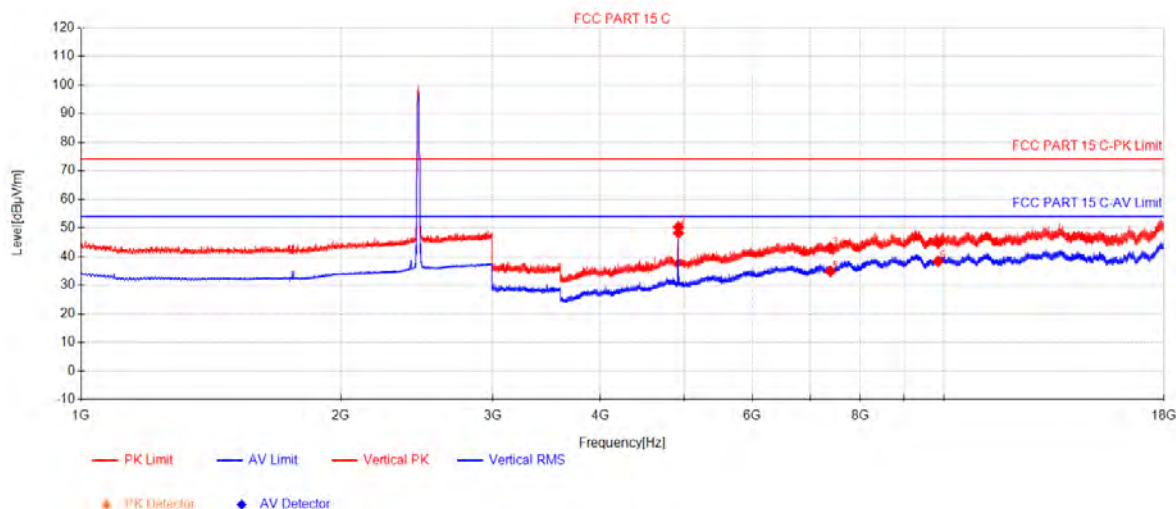
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802.11b_Channel 11



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	4924.5	60.70	32.42	-44.89	48.22	54.00	5.78	185	357	Vertical
2	4924	62.76	32.42	-44.89	50.28	74.00	23.72	263	357	Vertical
3	7386	48.64	36.43	-41.95	43.12	74.00	30.88	251	335	Vertical
4	9848	43.49	38.52	-37.38	44.63	74.00	29.37	142	130	Vertical
5	7386	40.33	36.43	-41.95	34.81	54.00	19.19	298	56	Vertical
6	9848	37.17	38.52	-37.38	38.31	54.00	15.69	241	0	Vertical



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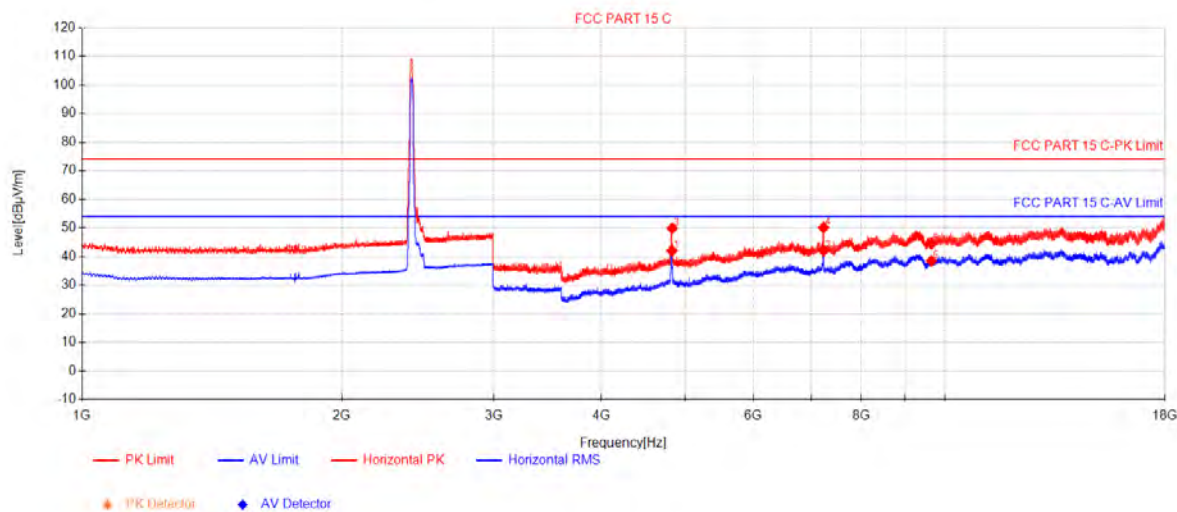
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802.11g_Channel 01



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	4827	54.32	32.18	-44.56	41.95	54.00	12.05	142	8	Horizontal
2	7235.5	47.76	36.34	-42.08	42.02	54.00	11.98	285	334	Horizontal
3	4830	62.24	32.19	-44.57	49.86	74.00	24.14	263	333	Horizontal
4	7235	55.85	36.34	-42.09	50.11	74.00	23.89	265	334	Horizontal
5	9648	43.59	38.54	-37.82	44.30	74.00	29.70	241	182	Horizontal
6	9648	37.72	38.54	-37.82	38.43	54.00	15.57	187	53	Horizontal



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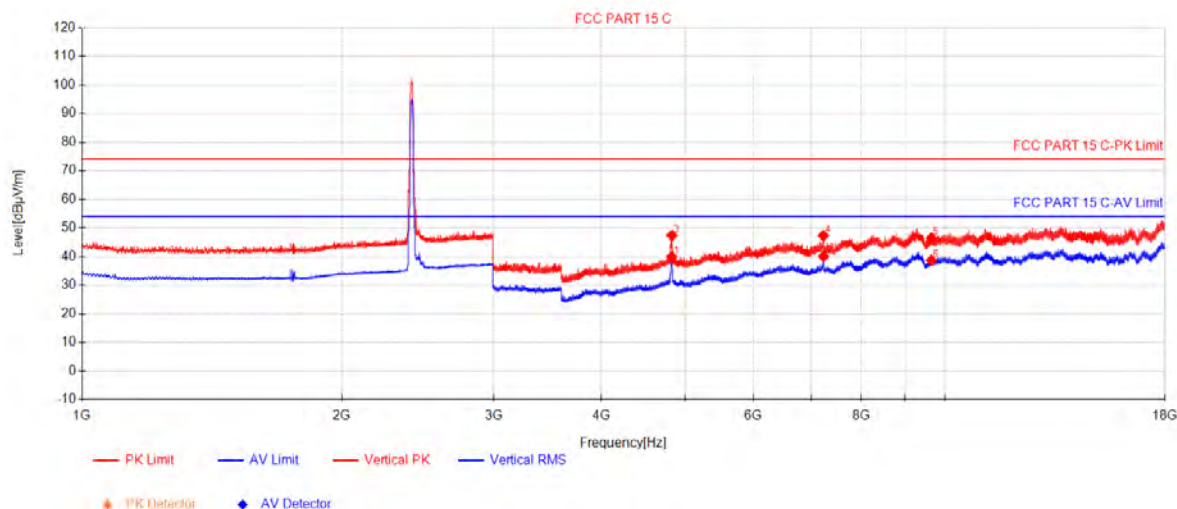
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4825.5	52.28	32.18	-44.55	39.91	54.00	14.09	142	0	Vertical
2	7234	45.78	36.34	-42.09	40.03	54.00	13.97	286	7	Vertical
3	4827	59.74	32.18	-44.56	47.37	74.00	26.63	265	357	Vertical
4	7230.5	53.06	36.34	-42.11	47.29	74.00	26.71	241	357	Vertical
5	9648	45.72	38.54	-37.82	46.43	74.00	27.57	185	52	Vertical
6	9648	37.92	38.54	-37.82	38.63	54.00	15.37	233	7	Vertical



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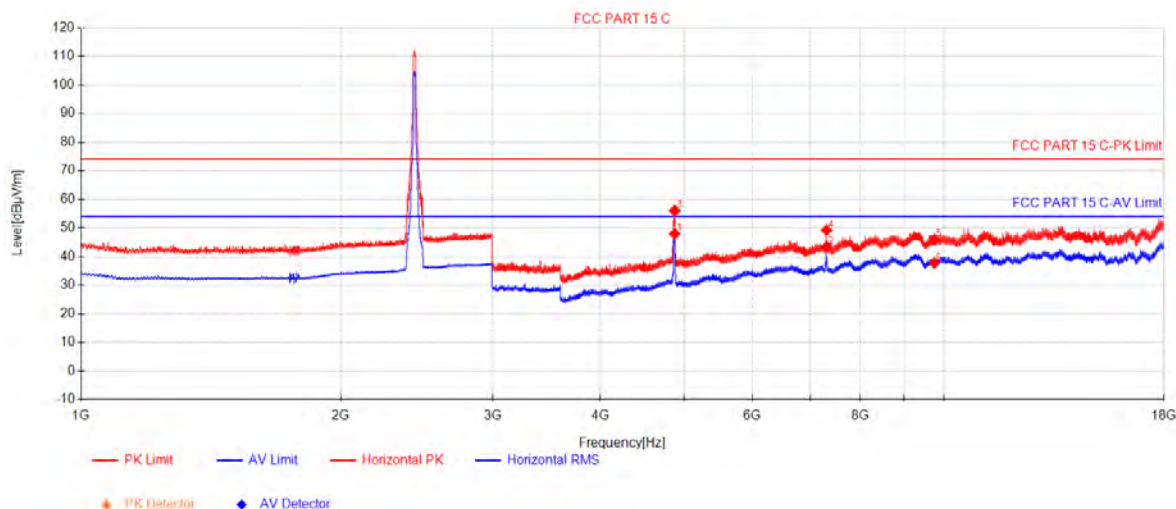
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802.11g_Channel 06



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	4877	60.38	32.30	-44.78	47.91	54.00	6.09	163	7	Horizontal
2	7313.5	48.87	36.39	-41.79	43.47	54.00	10.53	284	47	Horizontal
3	4877	68.48	32.30	-44.78	56.01	74.00	17.99	176	332	Horizontal
4	7313	54.56	36.39	-41.79	49.16	74.00	24.84	265	47	Horizontal
5	9748	44.92	38.53	-37.51	45.93	74.00	28.07	254	125	Horizontal
6	9748	36.70	38.53	-37.51	37.71	54.00	16.29	188	78	Horizontal



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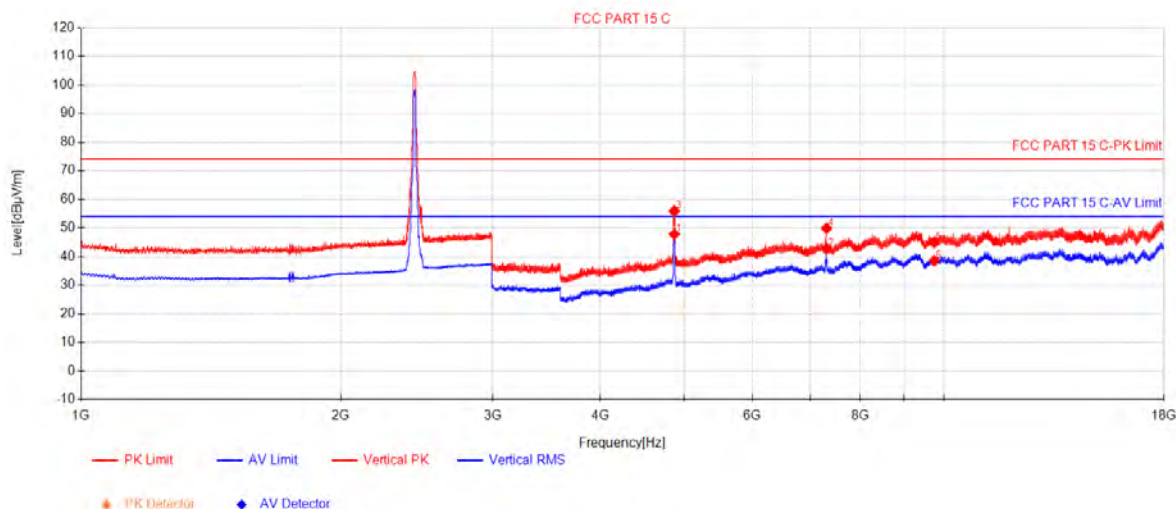
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802.11g_Channel 06



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	4871.5	60.27	32.29	-44.75	47.81	54.00	6.19	163	96	Vertical
2	7315	48.17	36.39	-41.79	42.77	54.00	11.23	251	263	Vertical
3	4872	68.33	32.29	-44.76	55.87	74.00	18.13	142	251	Vertical
4	7313	55.27	36.39	-41.79	49.87	74.00	24.13	284	357	Vertical
5	9748	43.85	38.53	-37.51	44.86	74.00	29.14	175	0	Vertical
6	9748	37.48	38.53	-37.51	38.49	54.00	15.51	263	1	Vertical



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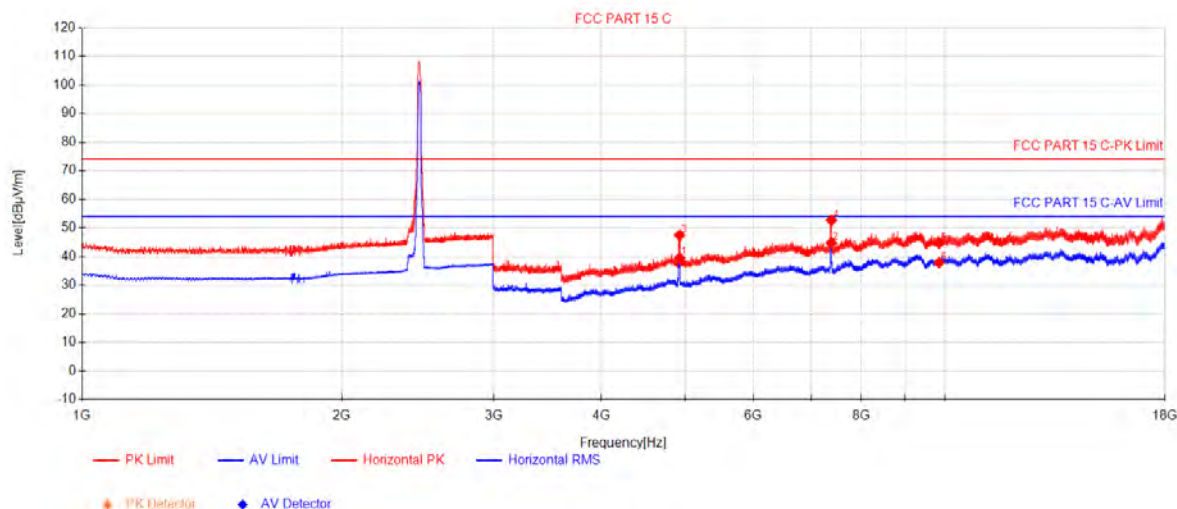
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802.11g_Channel 11



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	4927	51.96	32.42	-44.90	39.49	54.00	14.51	163	355	Horizontal
2	7385.5	50.34	36.43	-41.95	44.82	54.00	9.18	254	130	Horizontal
3	4926.5	59.89	32.42	-44.90	47.42	74.00	26.58	175	355	Horizontal
4	7389	58.14	36.43	-41.96	52.62	74.00	21.38	268	153	Horizontal
5	9848	43.44	38.52	-37.38	44.58	74.00	29.42	244	54	Horizontal
6	9848	36.70	38.52	-37.38	37.84	54.00	16.16	196	177	Horizontal



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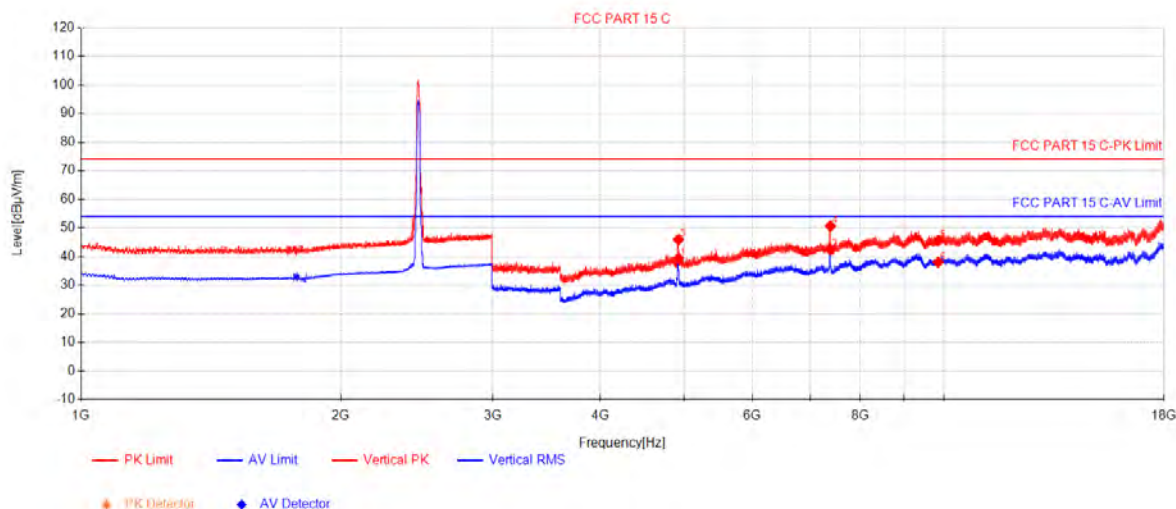
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4925.5	51.85	32.42	-44.90	39.38	54.00	14.62	185	3	Vertical
2	7385.5	47.99	36.43	-41.95	42.47	54.00	11.53	263	27	Vertical
3	4924	58.35	32.42	-44.89	45.87	74.00	28.13	265	28	Vertical
4	7389.5	56.17	36.43	-41.96	50.65	74.00	23.35	241	27	Vertical
5	9848	44.40	38.52	-37.38	45.54	74.00	28.46	175	155	Vertical
6	9848	36.84	38.52	-37.38	37.98	54.00	16.02	268	104	Vertical



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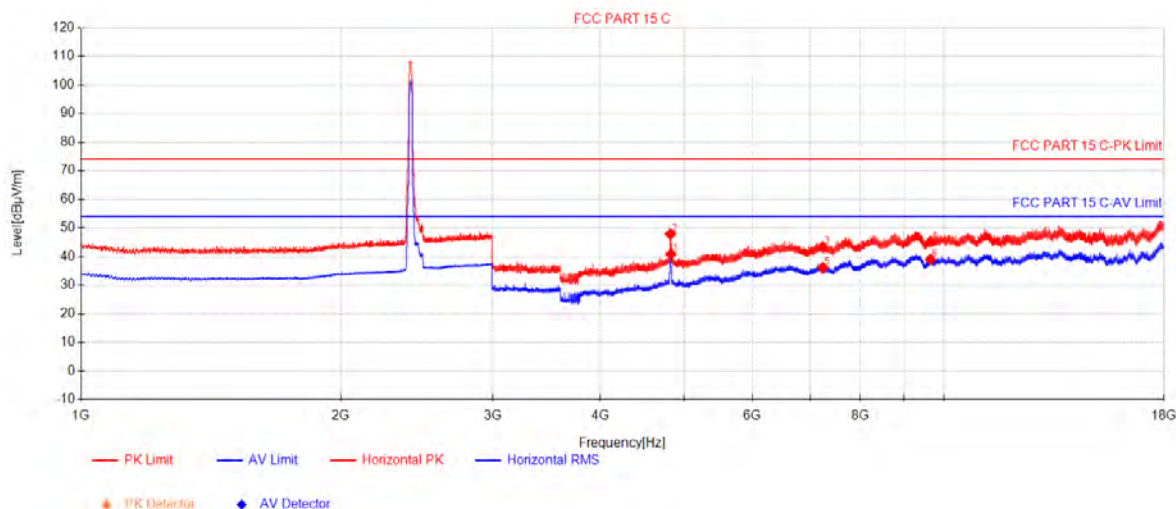
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4826.5	53.14	32.18	-44.56	40.77	54.00	13.23	163	10	Horizontal
2	4820	60.19	32.17	-44.53	47.83	74.00	26.17	251	308	Horizontal
3	7236	49.07	36.34	-42.08	43.33	74.00	30.67	142	285	Horizontal
4	9648	44.44	38.54	-37.82	45.15	74.00	28.85	284	74	Horizontal
5	7236	41.77	36.34	-42.08	36.03	54.00	17.97	176	84	Horizontal
6	9648	38.29	38.54	-37.82	39.00	54.00	15.00	263	178	Horizontal



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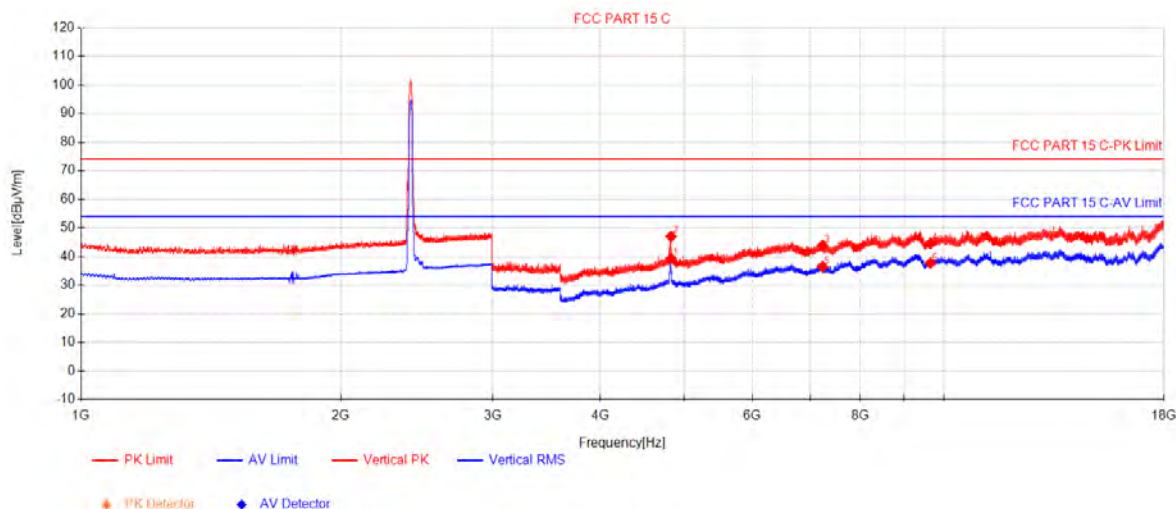
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4828.5	51.66	32.19	-44.57	39.28	54.00	14.72	185	357	Vertical
2	4828	59.40	32.19	-44.56	47.02	74.00	26.98	263	357	Vertical
3	7236	49.64	36.34	-42.08	43.90	74.00	30.10	241	165	Vertical
4	9648	43.78	38.54	-37.82	44.49	74.00	29.51	178	140	Vertical
5	7236	42.15	36.34	-42.08	36.41	54.00	17.59	263	255	Vertical
6	9648	36.96	38.54	-37.82	37.67	54.00	16.33	264	48	Vertical



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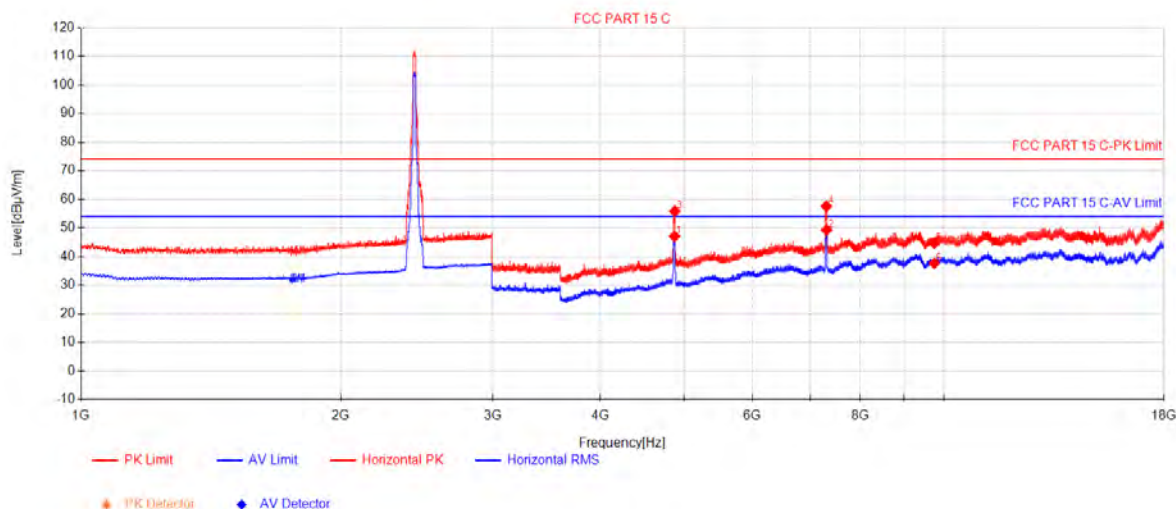
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802.11n20_Channel 06



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	4874.5	59.52	32.30	-44.77	47.05	54.00	6.95	163	24	Horizontal
2	7311.5	54.64	36.39	-41.79	49.24	54.00	4.76	254	0	Horizontal
3	4877.5	68.31	32.31	-44.78	55.83	74.00	18.17	175	6	Horizontal
4	7309.5	62.94	36.39	-41.78	57.54	74.00	16.46	263	0	Horizontal
5	9748	43.58	38.53	-37.51	44.59	74.00	29.41	251	158	Horizontal
6	9748	36.59	38.53	-37.51	37.60	54.00	16.40	104	202	Horizontal



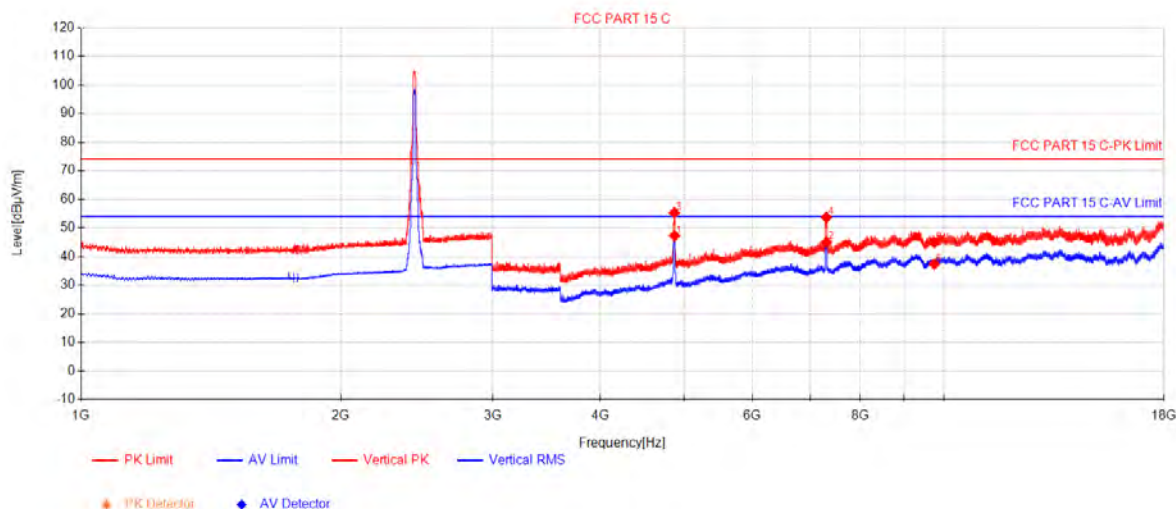
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802.11n20_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	59.71	32.30	-44.77	47.24	54.00	6.76	175	357	Vertical
2	7312.5	50.38	36.39	-41.79	44.98	54.00	9.02	286	309	Vertical
3	4872	67.72	32.29	-44.76	55.26	74.00	18.74	263	333	Vertical
4	7310	59.06	36.39	-41.78	53.66	74.00	20.34	251	0	Vertical
5	9748	43.82	38.53	-37.51	44.83	74.00	29.17	142	108	Vertical
6	9748	36.35	38.53	-37.51	37.36	54.00	16.64	291	128	Vertical



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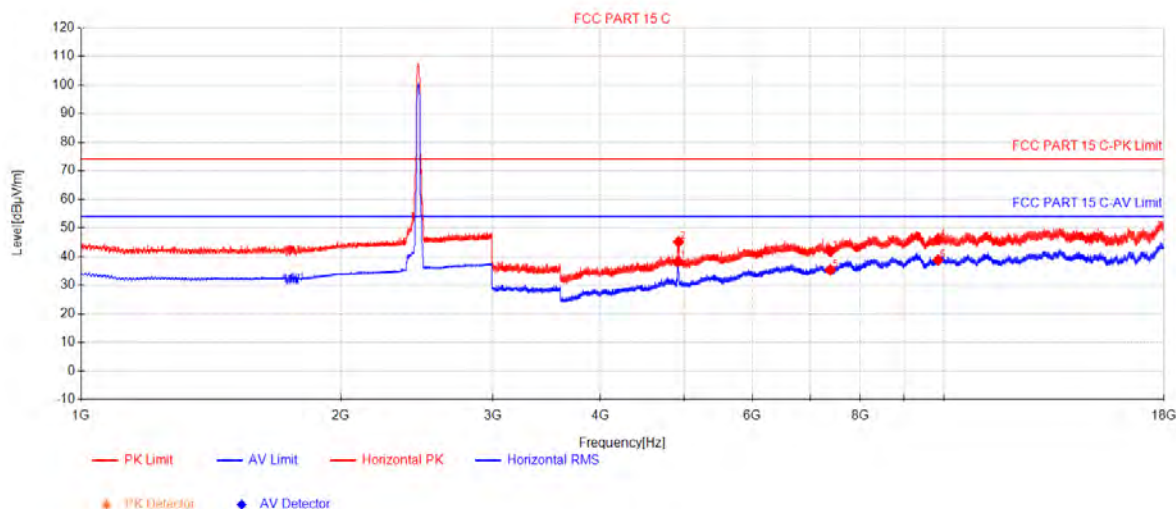
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4922.5	50.79	32.41	-44.89	38.31	54.00	15.69	142	353	Horizontal
2	4926.5	57.59	32.42	-44.90	45.12	74.00	28.88	276	360	Horizontal
3	7386	47.28	36.43	-41.95	41.76	74.00	32.24	263	203	Horizontal
4	9848	44.95	38.52	-37.38	46.09	74.00	27.91	251	3	Horizontal
5	7386	40.78	36.43	-41.95	35.26	54.00	18.74	142	54	Horizontal
6	9848	37.62	38.52	-37.38	38.76	54.00	15.24	284	338	Horizontal



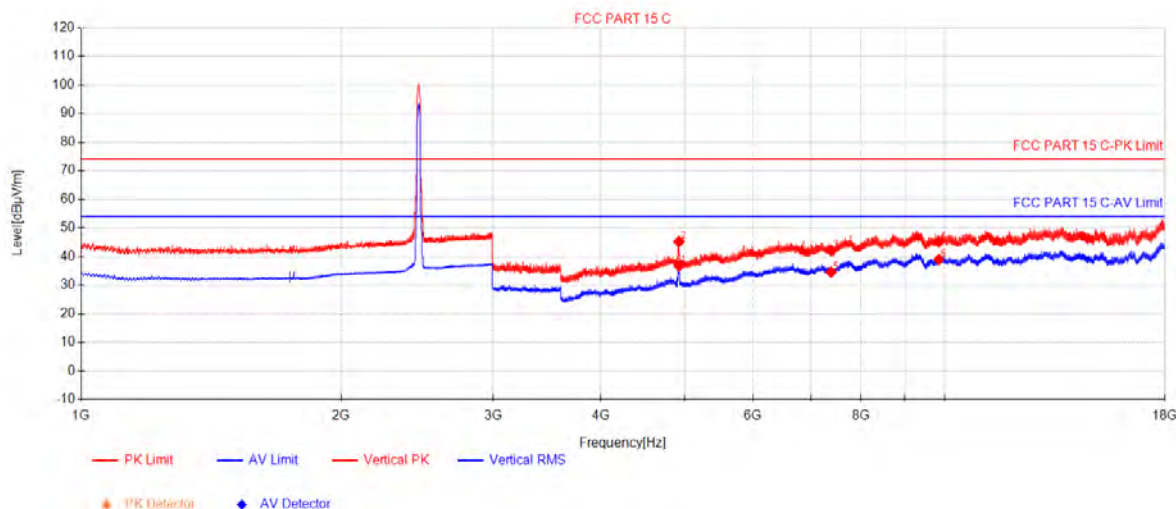
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4926	49.16	32.42	-44.90	36.69	54.00	17.31	172	3	Vertical
2	4923.5	57.67	32.42	-44.89	45.19	74.00	28.81	263	28	Vertical
3	7386	47.64	36.43	-41.95	42.12	74.00	31.88	265	3	Vertical
4	9848	43.93	38.52	-37.38	45.07	74.00	28.93	241	106	Vertical
5	7386	40.00	36.43	-41.95	34.48	54.00	19.52	175	79	Vertical
6	9848	37.79	38.52	-37.38	38.93	54.00	15.07	268	157	Vertical

Remark:

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

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBμV/m) - Level(dBμV/m)



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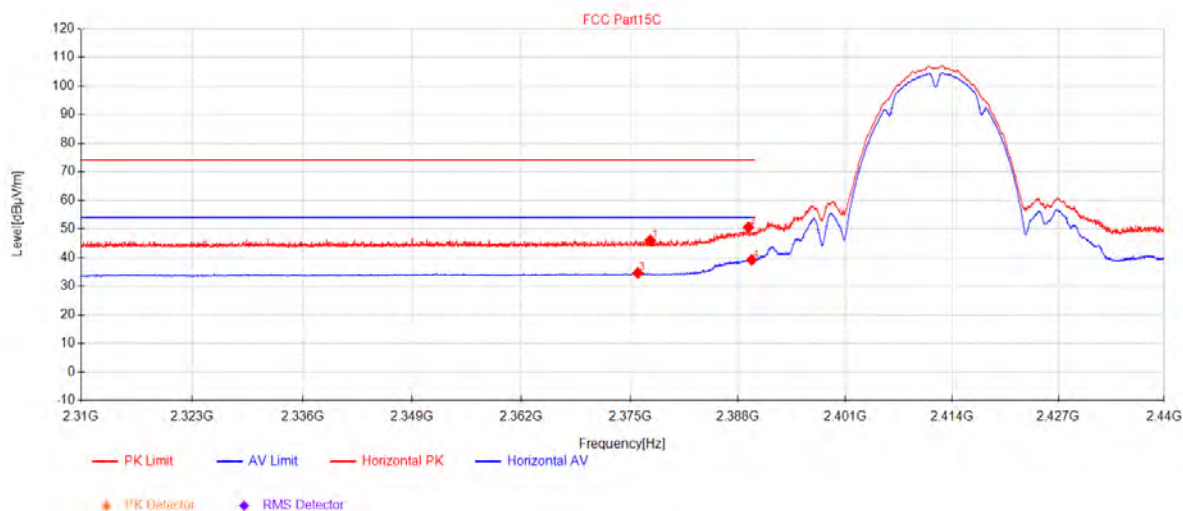
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Restricted bands around fundamental frequency

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	2377.4375	42.77	27.65	-24.45	45.98	74.00	28.02	144	52	Horizontal
2	2389.2675	47.29	27.68	-24.42	50.54	74.00	23.46	144	52	Horizontal
3	2375.9425	31.34	27.65	-24.45	34.54	54.00	19.46	144	52	Horizontal
4	2389.6575	35.89	27.68	-24.42	39.15	54.00	14.85	144	52	Horizontal



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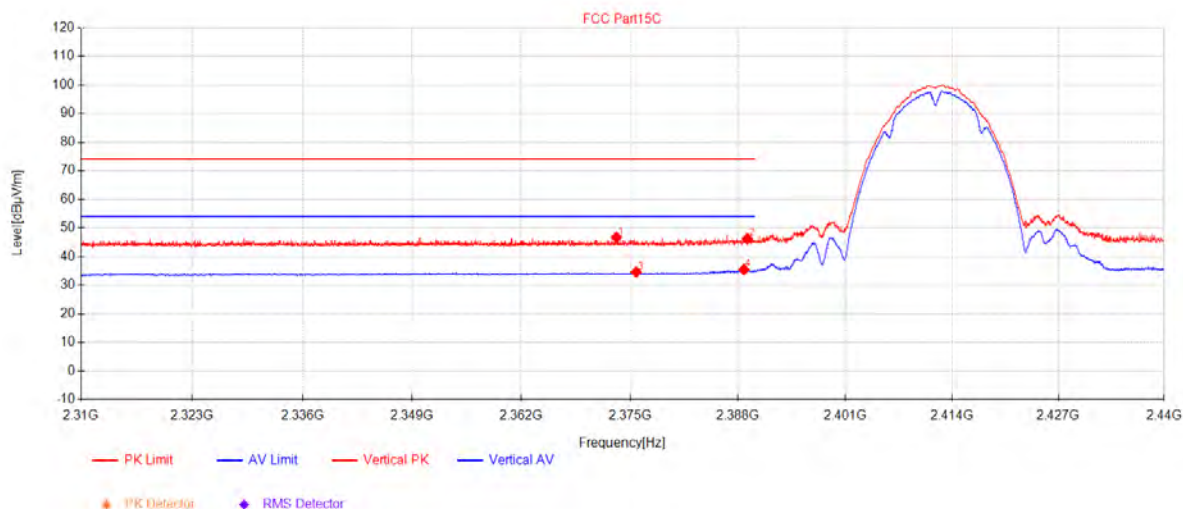
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.375	43.48	27.65	-24.46	46.67	74.00	27.33	302	98	Vertical
2	2389.1375	42.96	27.68	-24.42	46.21	74.00	27.79	302	98	Vertical
3	2375.7475	31.31	27.65	-24.45	34.51	54.00	19.49	302	98	Vertical
4	2388.715	32.17	27.68	-24.42	35.42	54.00	18.58	302	98	Vertical



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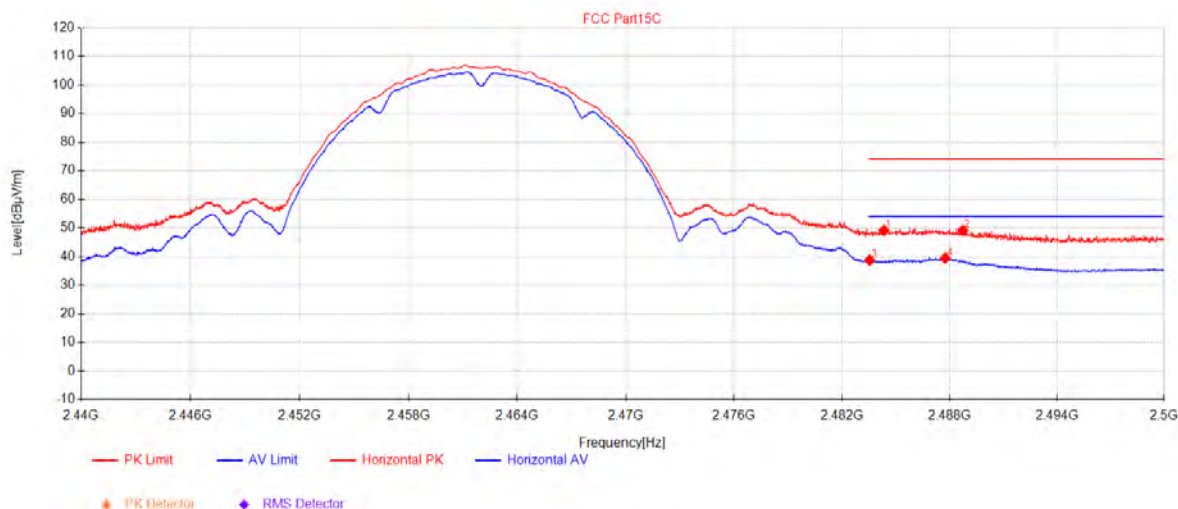
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.34	45.23	27.87	-23.95	49.15	74.00	24.85	163	58	Horizontal
2	2488.735	45.14	27.88	-23.93	49.09	74.00	24.91	163	58	Horizontal
3	2483.545	34.80	27.87	-23.96	38.71	54.00	15.29	163	58	Horizontal
4	2487.76	35.44	27.88	-23.93	39.38	54.00	14.62	163	58	Horizontal



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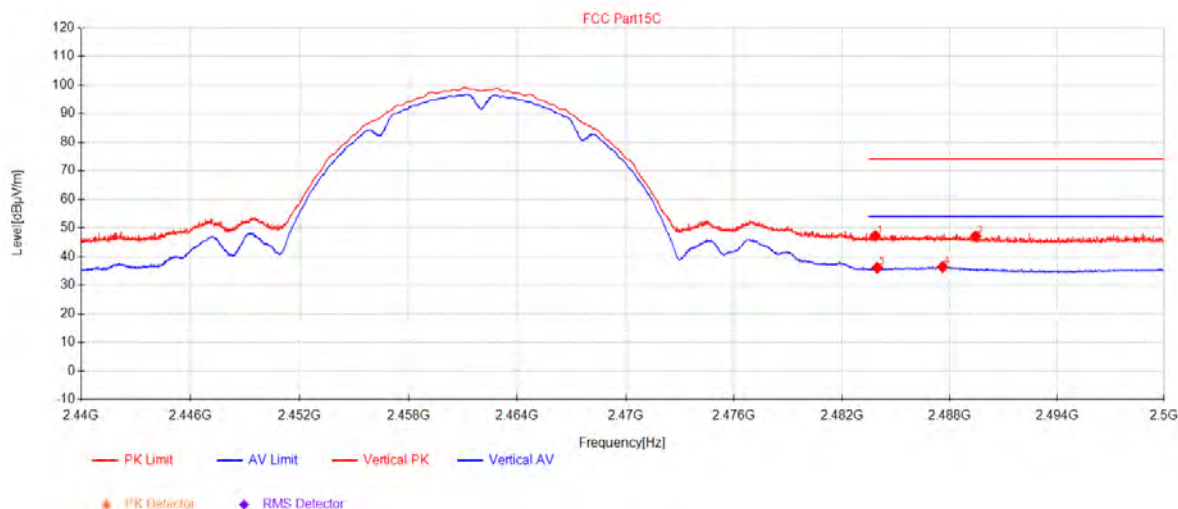
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.86	43.36	27.87	-23.96	47.27	74.00	26.73	301	112	Vertical
2	2489.455	43.21	27.88	-23.93	47.16	74.00	26.84	301	112	Vertical
3	2483.965	32.14	27.87	-23.95	36.05	54.00	17.95	301	112	Vertical
4	2487.61	32.42	27.88	-23.94	36.36	54.00	17.64	301	112	Vertical



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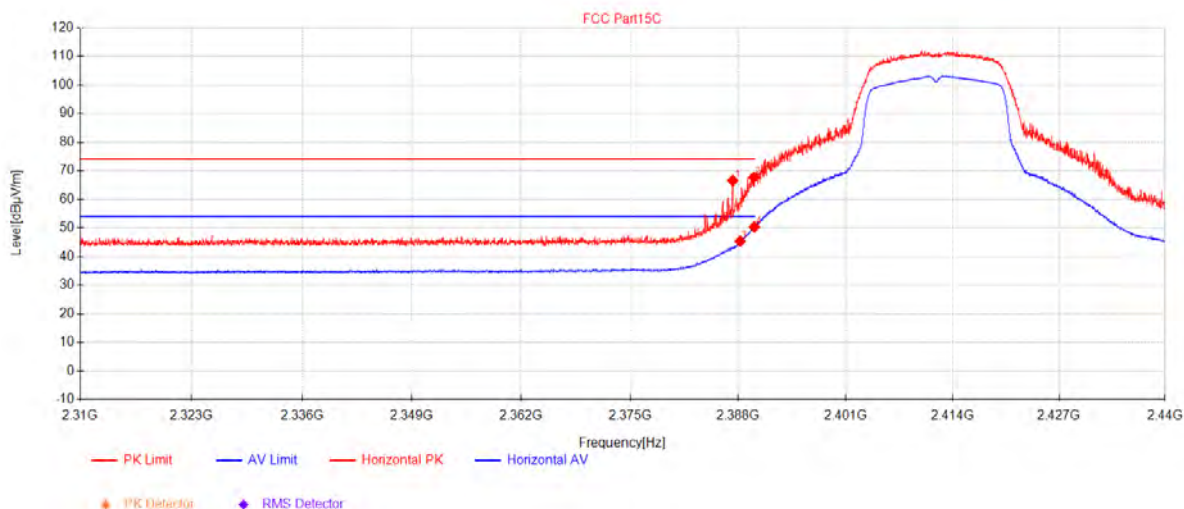
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.35	63.24	27.67	-24.43	66.49	74.00	7.51	168	49	Horizontal
2	2389.885	64.35	27.68	-24.42	67.61	74.00	6.39	168	49	Horizontal
3	2388.2275	42.06	27.68	-24.43	45.31	54.00	8.69	168	49	Horizontal
4	2389.95	47.06	27.68	-24.42	50.32	54.00	3.68	168	49	Horizontal



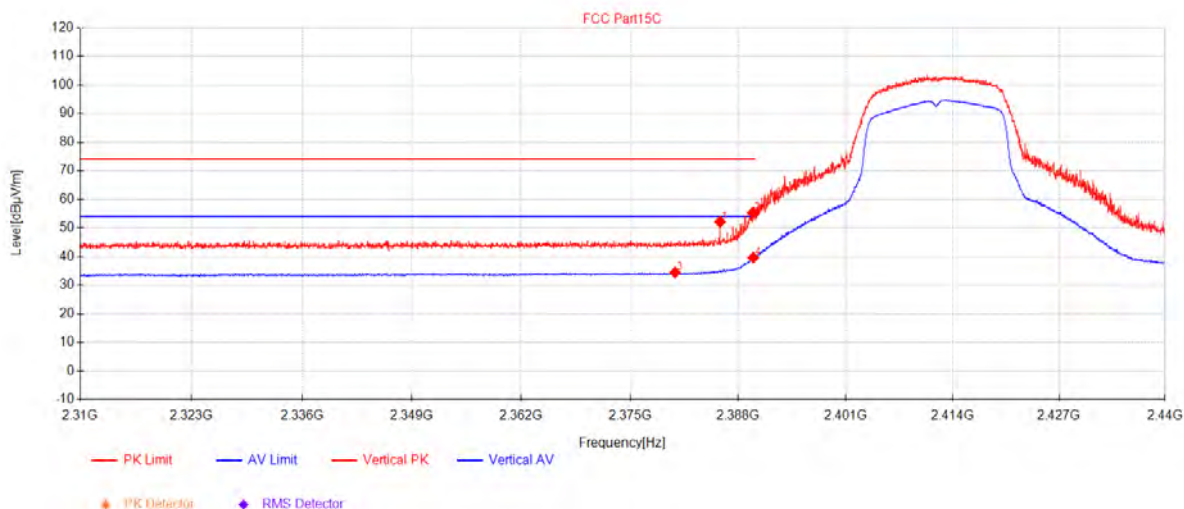
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.8225	48.85	27.67	-24.43	52.09	74.00	21.91	294	117	Vertical
2	2389.755	52.01	27.68	-24.42	55.27	74.00	18.73	294	117	Vertical
3	2380.395	31.18	27.66	-24.44	34.40	54.00	19.60	294	117	Vertical
4	2389.82	36.33	27.68	-24.42	39.59	54.00	14.41	294	117	Vertical



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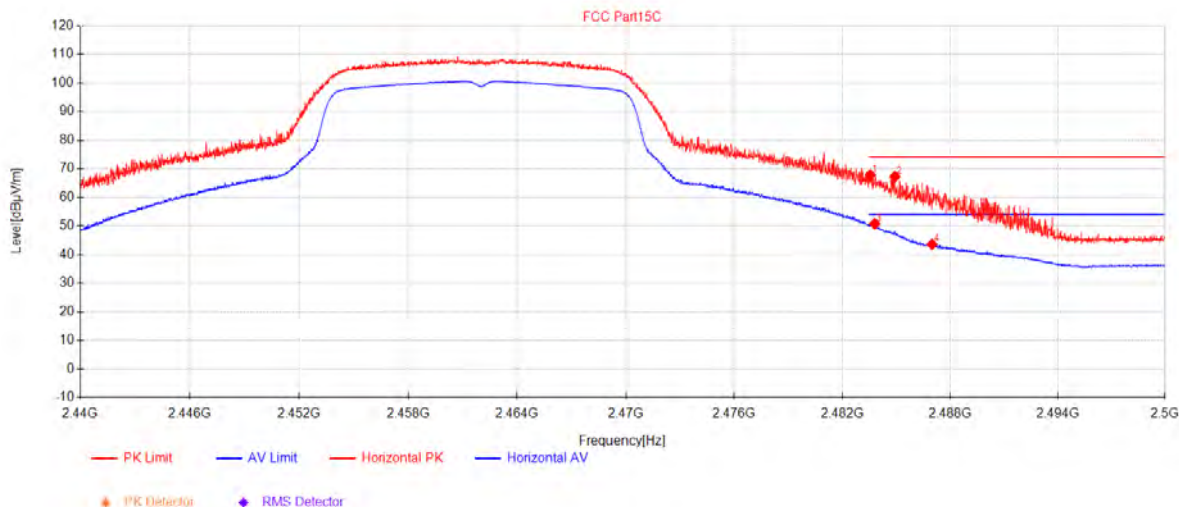
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	63.86	27.87	-23.96	67.77	74.00	6.23	192	134	Horizontal
2	2484.925	63.24	27.87	-23.95	67.16	74.00	6.84	192	134	Horizontal
3	2483.8	46.81	27.87	-23.96	50.72	54.00	3.28	192	134	Horizontal
4	2486.995	39.62	27.87	-23.94	43.56	54.00	10.44	192	134	Horizontal



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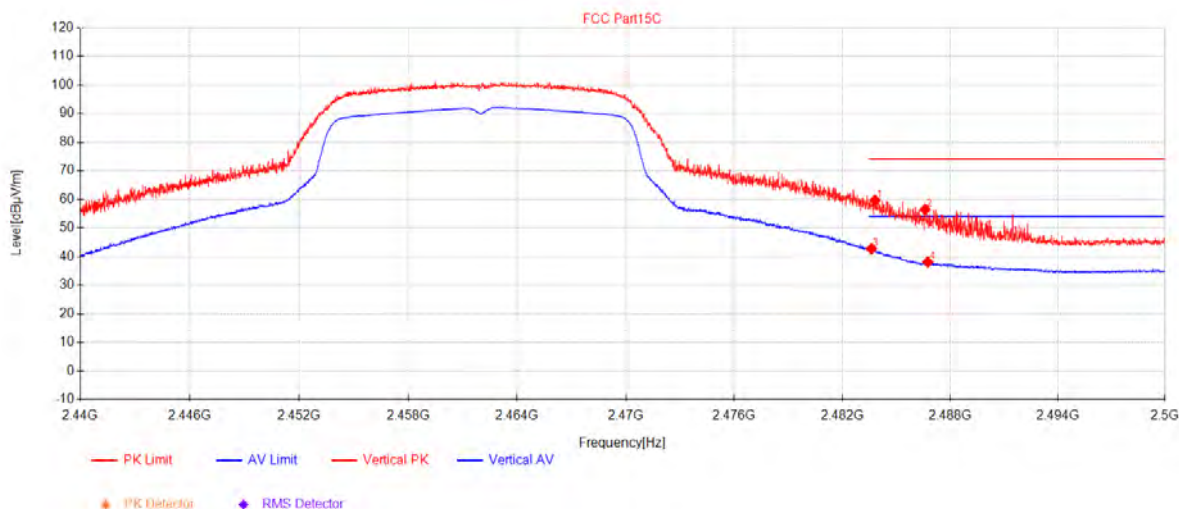
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.815	55.74	27.87	-23.96	59.65	74.00	14.35	176	305	Vertical
2	2486.605	52.44	27.87	-23.94	56.37	74.00	17.63	176	305	Vertical
3	2483.62	38.78	27.87	-23.96	42.69	54.00	11.31	176	305	Vertical
4	2486.755	34.14	27.87	-23.94	38.07	54.00	15.93	176	305	Vertical



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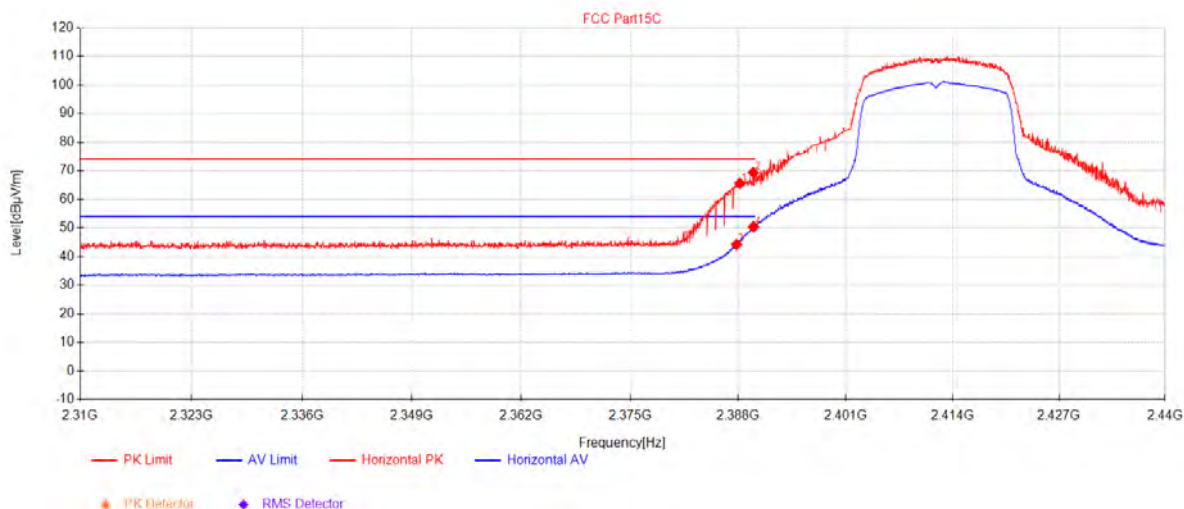
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.195	62.27	27.68	-24.43	65.52	74.00	8.48	175	57	Horizontal
2	2389.82	66.06	27.68	-24.42	69.32	74.00	4.68	175	57	Horizontal
3	2387.805	40.91	27.68	-24.43	44.16	54.00	9.84	175	57	Horizontal
4	2389.8525	47.11	27.68	-24.42	50.37	54.00	3.63	175	57	Horizontal



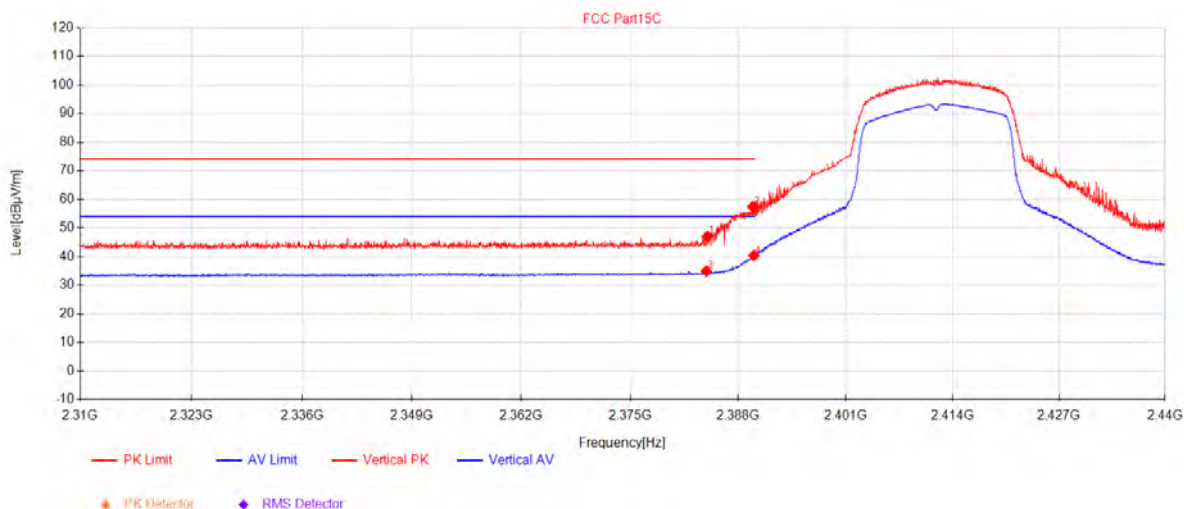
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.295	43.83	27.67	-24.43	47.06	74.00	26.94	298	110	Vertical
2	2389.755	54.07	27.68	-24.42	57.33	74.00	16.67	298	110	Vertical
3	2384.165	31.66	27.67	-24.43	34.89	54.00	19.11	298	110	Vertical
4	2389.885	37.04	27.68	-24.42	40.30	54.00	13.70	298	110	Vertical



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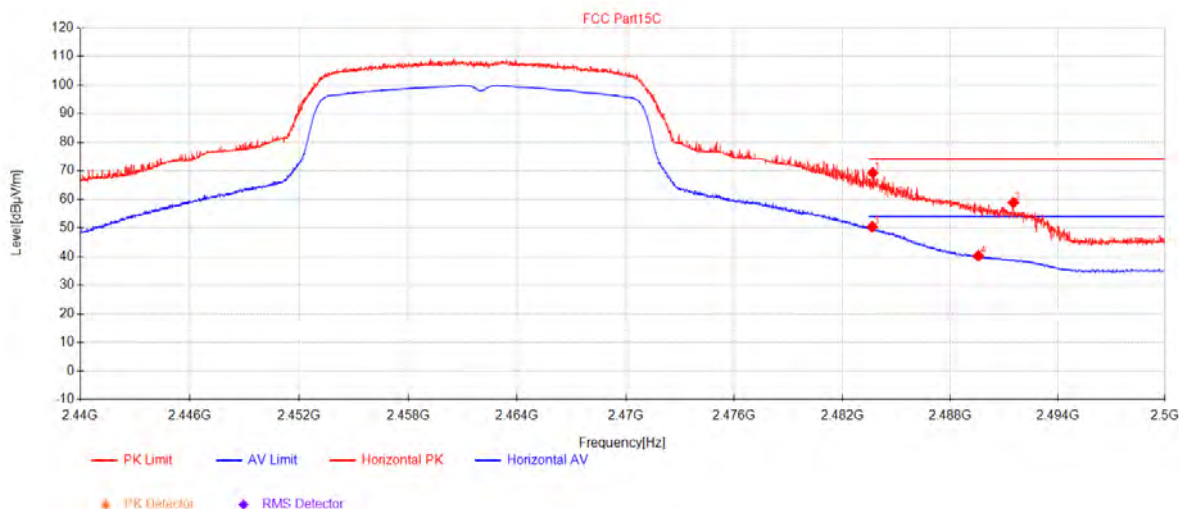
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1	2483.695	65.28	27.87	-23.96	69.19	74.00	4.81	145	52	Horizontal
2	2491.525	54.83	27.88	-23.91	58.80	74.00	15.20	145	52	Horizontal
3	2483.665	46.46	27.87	-23.96	50.37	54.00	3.63	145	52	Horizontal
4	2489.575	36.25	27.88	-23.93	40.20	54.00	13.80	145	52	Horizontal



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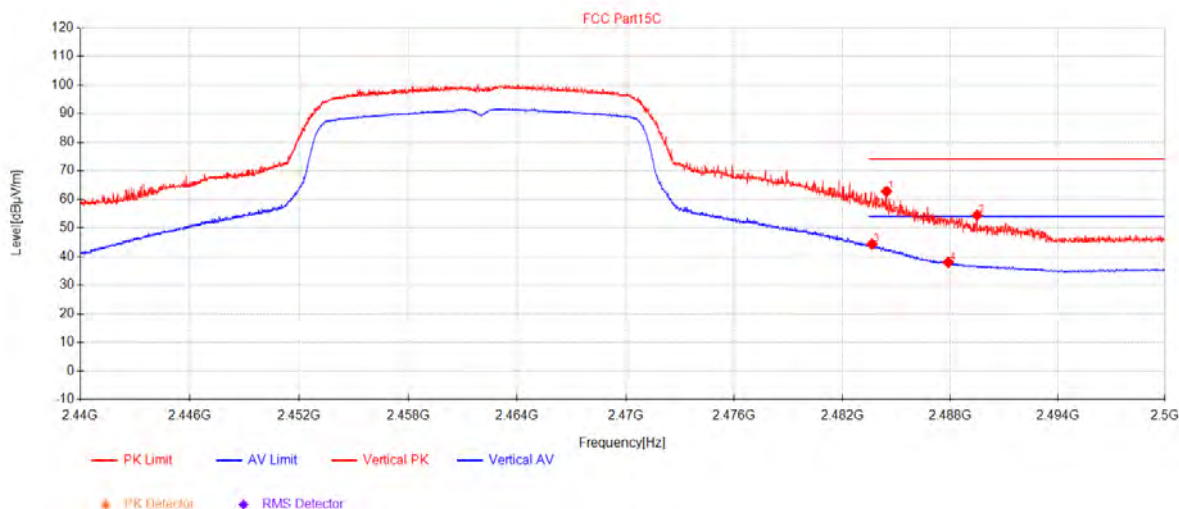
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1	2484.46	58.77	27.87	-23.95	62.69	74.00	11.31	266	163	Vertical
2	2489.5	50.46	27.88	-23.93	54.41	74.00	19.59	266	163	Vertical
3	2483.65	40.37	27.87	-23.96	44.28	54.00	9.72	266	163	Vertical
4	2487.895	34.04	27.88	-23.93	37.98	54.00	16.02	266	163	Vertical

Remark:

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

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBμV/m) - Level(dBμV/m)

The End



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