

Report No.: SEWM2308000314RG05  
 Rev.: 01  
 Page: 1 of 176

# TEST REPORT

**Application No.:** SEWM2308000314RG  
**Applicant:** Shenzhen Tinno Mobile Technology Corp.  
**Address of Applicant:** 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC  
**Manufacturer:** Shenzhen Tinno Mobile Technology Corp.  
**Address of Manufacturer:** 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC  
**EUT Description:** Smart Phone  
**Model No.:** Celero3 5G  
**FCC ID:** XD6U653DS  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2023/08/19  
**Date of Test:** 2023/08/22 to 2023/10/12  
**Date of Issue:** 2023/10/13

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

Authorized Signature:

Well Wei  
 Wireless Laboratory Manager



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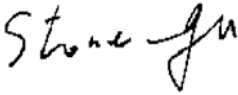
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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/13		Original

<b>Prepared By</b>		 <hr/> <b>(Yves Cheng) / Test Engineer</b>
<b>Checked By</b>		 <hr/> <b>(Stone Gu) / Reviewer</b>



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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	--	ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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### 3 General Information

#### 3.1 Details of Client

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

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

#### 3.3 Test Facility

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

<ul style="list-style-type: none"> <li> <b>• A2LA (Certificate No. 6336.01)</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.         </li> <li> <b>• Innovation, Science and Economic Development Canada</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0120.            IC#: 27594.         </li> <li> <b>• FCC –Designation Number: CN1312</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.            Designation Number: CN1312.            Test Firm Registration Number: 717327         </li> </ul>
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### 3.4 General Description of EUT

EUT Description:	Smart Phone	
Model No.:	Celero3 5G	
Hardware Version:	V1.0	
Software Version:	N/A	
Power Supply:	Lithium Battery (3.85V)	
IMEI:	RF Conducted	860284060002432
	RSE & AC power line	860284060010906
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g
	<input checked="" type="checkbox"/> MIMO	802.11n/ax: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	802.11b/g: 2Tx & 2Rx
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	1.0dBi (Ant7); -5.2dBi (Ant9);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
Remark:	<p>1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> <p>2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU are tested for conducted power/PSD/Duty cycle, all the other test case were performed with full RU with its maximum power/PSD.</p>	



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Operation Frequency of each channel (802.11b/g/n HT20 / ax HE20)							
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		

### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.85
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	2 Mbps
802.11g	6 Mbps	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	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 Fixed Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi (Ant7); -5.2dBi (Ant9); *</p>	
<p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><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></p>	



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**Cyclic Delay Diversity (CDD) System:**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS} = 1) \text{ dB}$ .

- For power measurements on IEEE 802.11 devices:  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

**The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.**

The EUT supports CDD System.

Unequal antenna gain:

ANT Gain7 (dBi)	ANT Gain9 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
1.0	-5.2	1.0	1.45	0	0

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0



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### 4.2 AC Power Line Conducted Emissions

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



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



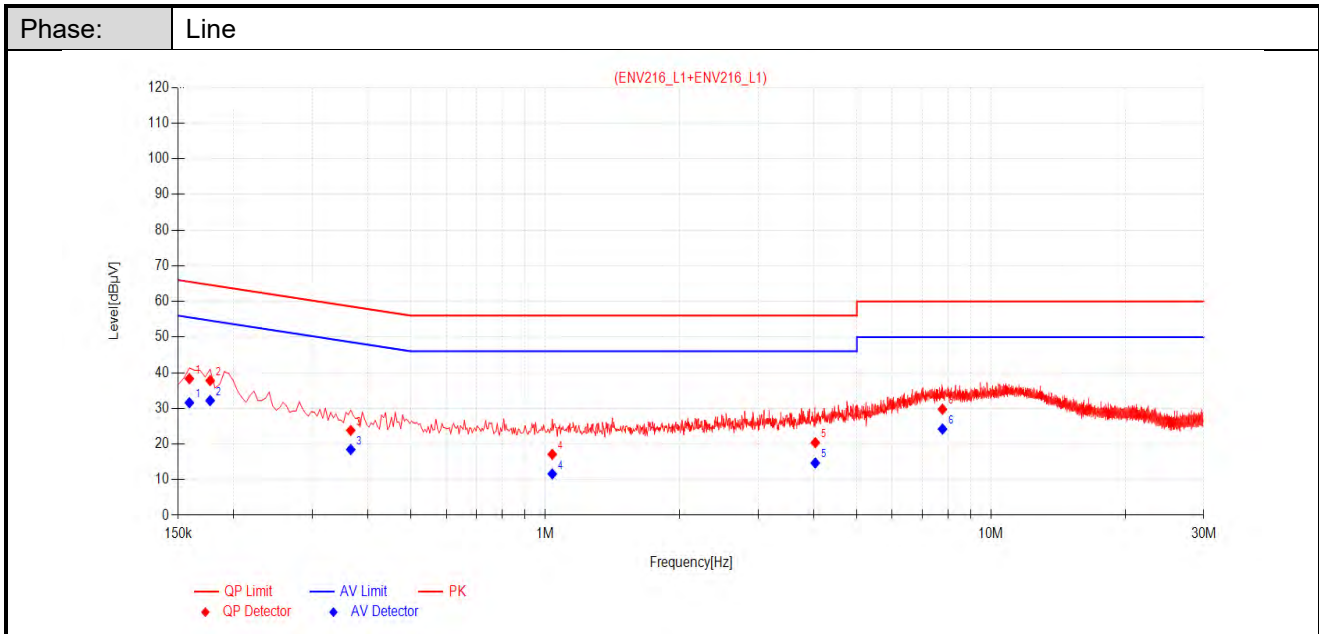
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Measurement Data

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



Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	11.82	26.51	38.33	65.52	27.19	19.75	31.57	55.52	23.95	PASS
2	0.1770	11.73	26.08	37.81	64.63	26.82	20.44	32.17	54.63	22.46	PASS
3	0.3660	11.61	12.21	23.82	58.59	34.77	6.84	18.45	48.59	30.14	PASS
4	1.0365	11.73	5.37	17.10	56.00	38.90	-0.13	11.60	46.00	34.40	PASS
5	4.0335	11.78	8.60	20.38	56.00	35.62	2.90	14.68	46.00	31.32	PASS
6	7.7820	11.89	17.86	29.75	60.00	30.25	12.31	24.20	50.00	25.80	PASS

Remark:

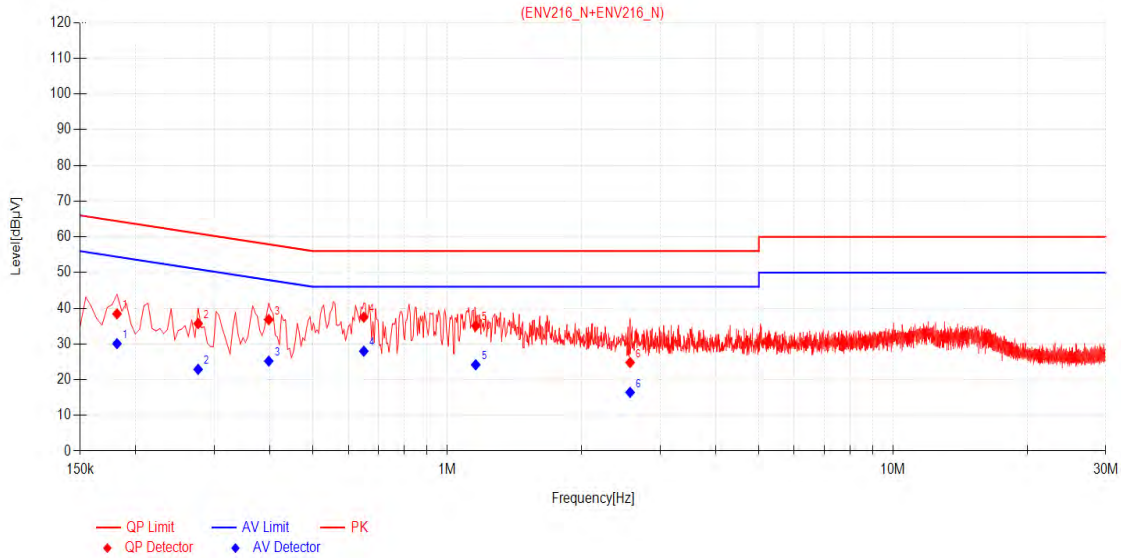
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Phase: Neutral



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	0.1815	11.71	26.72	38.43	64.42	25.99	18.39	30.10	54.42	24.32	PASS
2	0.2760	11.62	24.09	35.71	60.94	25.23	11.28	22.90	50.94	28.04	PASS
3	0.3975	11.62	25.20	36.82	57.91	21.09	13.60	25.22	47.91	22.69	PASS
4	0.6495	11.65	25.85	37.50	56.00	18.50	16.34	27.99	46.00	18.01	PASS
5	1.1580	11.72	23.36	35.08	56.00	20.92	12.46	24.18	46.00	21.82	PASS
6	2.5710	11.74	13.07	24.81	56.00	31.19	4.71	16.45	46.00	29.55	PASS

Remark:

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



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### 4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2020 Section 11.6
Test Method:	ANSI C63.10-2020 Section 11.6
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:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

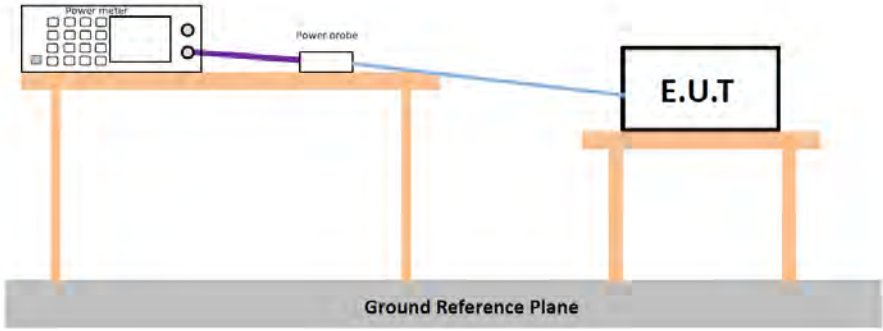


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### 4.4 Conducted Output Power

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: <b>Appendix</b>	



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

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



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### 4.6 Power Spectral Density

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



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### 4.7 Band-edge for RF Conducted Emissions

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



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### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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: <b>Appendix</b>	



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 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:

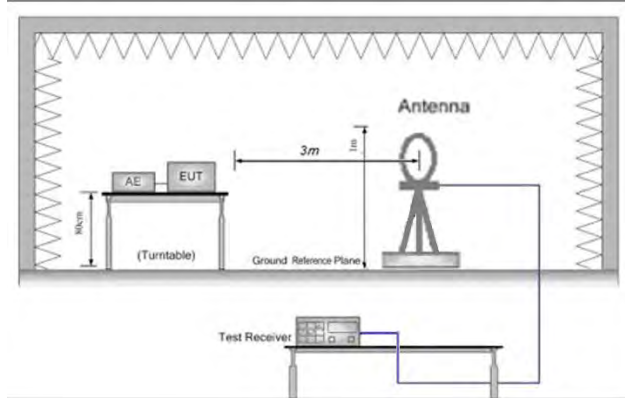


Figure 1. Below 30MHz

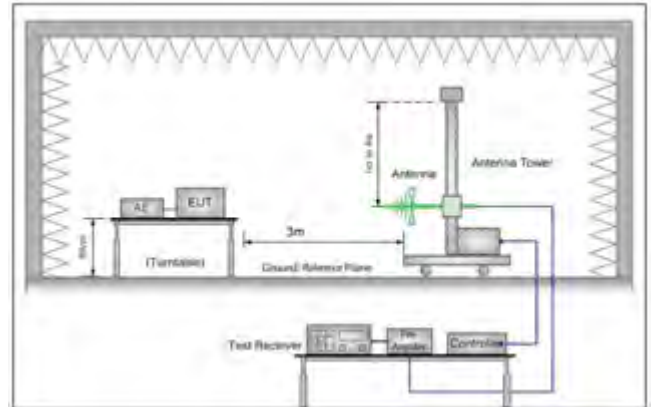


Figure 2. 30MHz to 1GHz

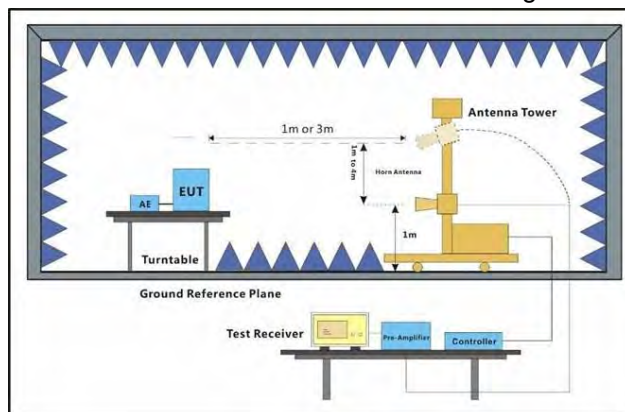


Figure 3. Above 1 GHz

Test Procedure:

- 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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 (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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, 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.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Refer to section 3.7 for details.</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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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:

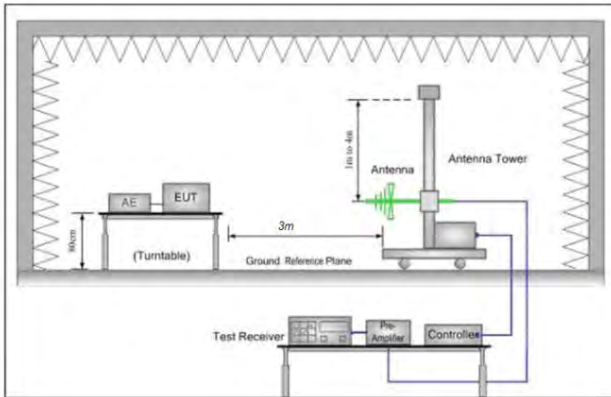


Figure 1. 30MHz to 1GHz

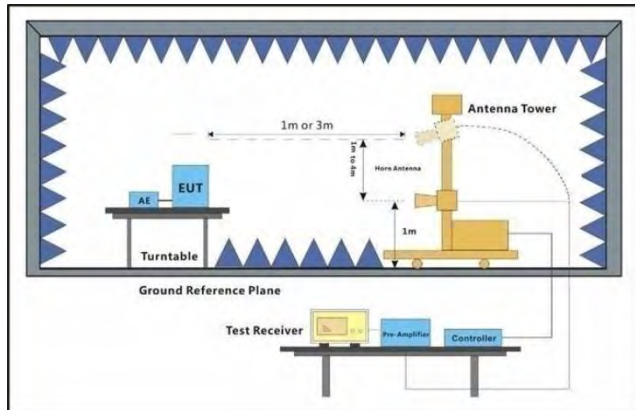


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• 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.</li> </ul>
<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: <b>Appendix</b>	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN: 101716	2023/02/22	2024/02/21

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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### DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant9	2412	8.16	2407.92	2416.08	≥0.5	PASS
11b	Ant9	2437	7.64	2432.92	2440.56	≥0.5	PASS
11b	Ant9	2462	7.64	2458.40	2466.04	≥0.5	PASS
11g	Ant9	2412	16.68	2403.64	2420.32	≥0.5	PASS
11g	Ant9	2417	16.64	2408.68	2425.32	≥0.5	PASS
11g	Ant9	2437	16.60	2428.68	2445.28	≥0.5	PASS
11g	Ant9	2462	16.64	2453.68	2470.32	≥0.5	PASS
11n20MIMO	Ant7	2412	17.92	2403.04	2420.96	≥0.5	PASS
11n20MIMO	Ant9	2412	17.88	2403.04	2420.92	≥0.5	PASS
11n20MIMO	Ant7	2417	17.92	2408.04	2425.96	≥0.5	PASS
11n20MIMO	Ant9	2417	17.88	2408.04	2425.92	≥0.5	PASS
11n20MIMO	Ant7	2437	17.88	2428.04	2445.92	≥0.5	PASS
11n20MIMO	Ant9	2437	17.88	2428.04	2445.92	≥0.5	PASS
11n20MIMO	Ant7	2462	17.92	2453.04	2470.96	≥0.5	PASS
11n20MIMO	Ant9	2462	17.88	2453.04	2470.92	≥0.5	PASS
11ax20MIMO	Ant7	2412	17.92	2403.04	2420.96	≥0.5	PASS
11ax20MIMO	Ant9	2412	17.96	2403.00	2420.96	≥0.5	PASS
11ax20MIMO	Ant7	2437	17.80	2428.04	2445.84	≥0.5	PASS
11ax20MIMO	Ant9	2437	17.88	2428.04	2445.92	≥0.5	PASS
11ax20MIMO	Ant7	2457	19.20	2447.40	2466.60	≥0.5	PASS
11ax20MIMO	Ant9	2457	19.32	2447.32	2466.64	≥0.5	PASS
11ax20MIMO	Ant7	2462	17.88	2453.04	2470.92	≥0.5	PASS
11ax20MIMO	Ant9	2462	17.88	2453.04	2470.92	≥0.5	PASS

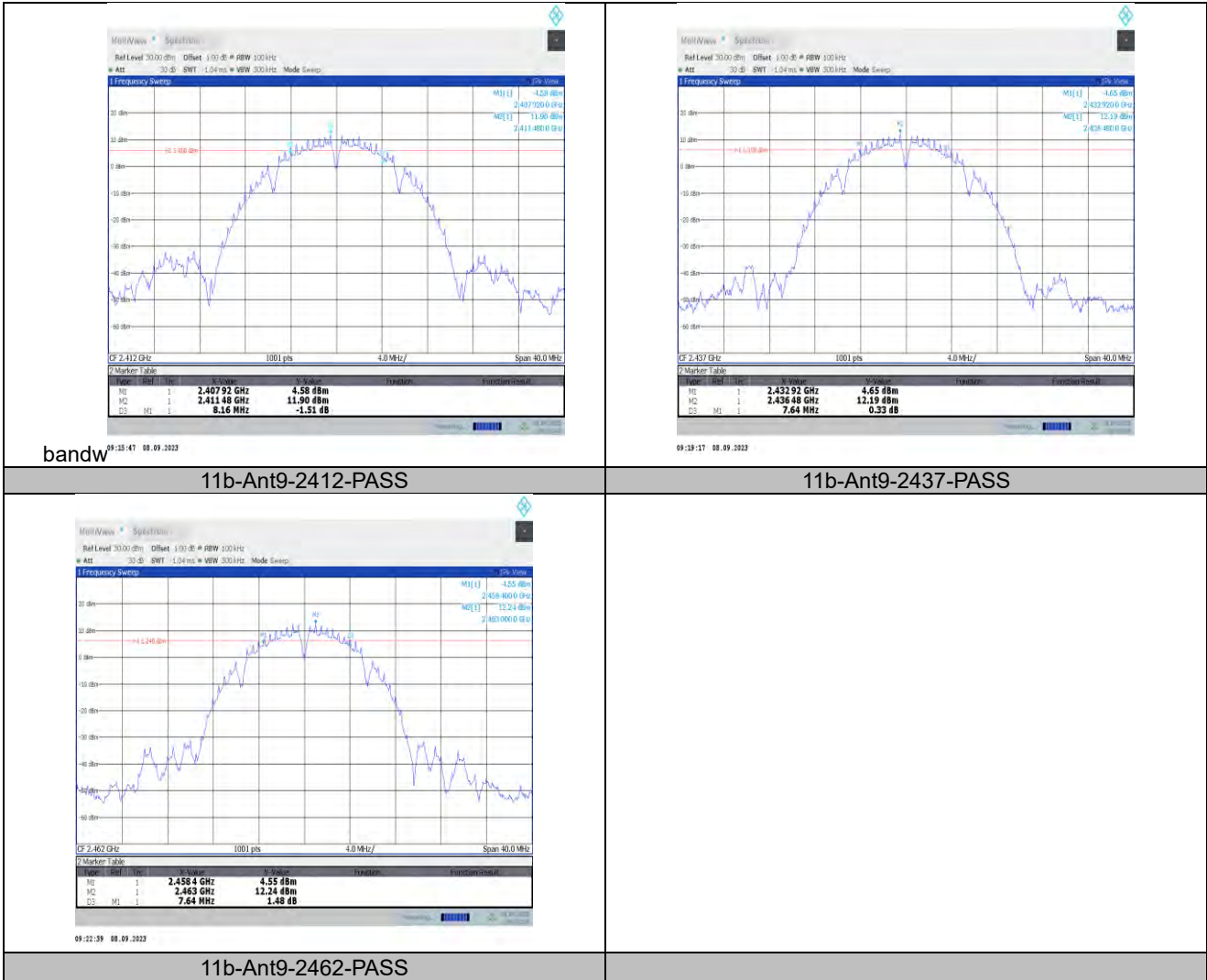


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Test Graphs

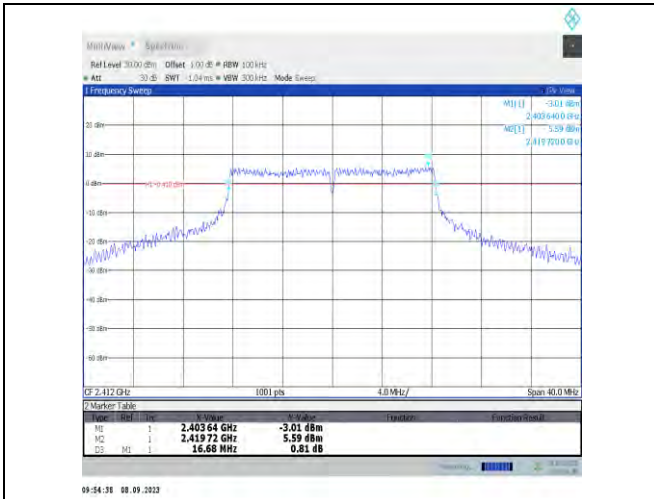


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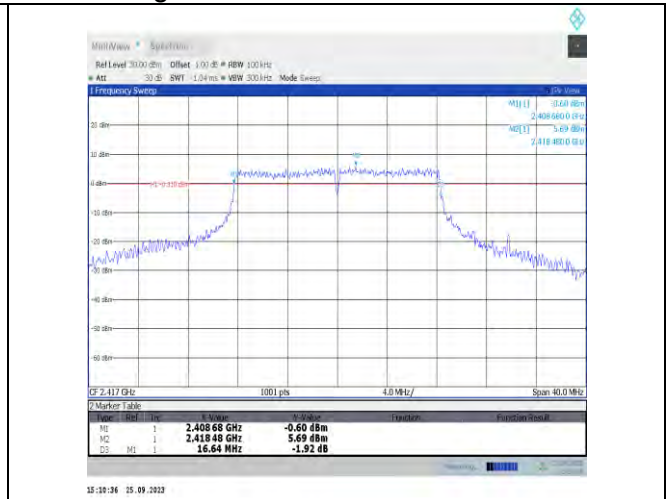
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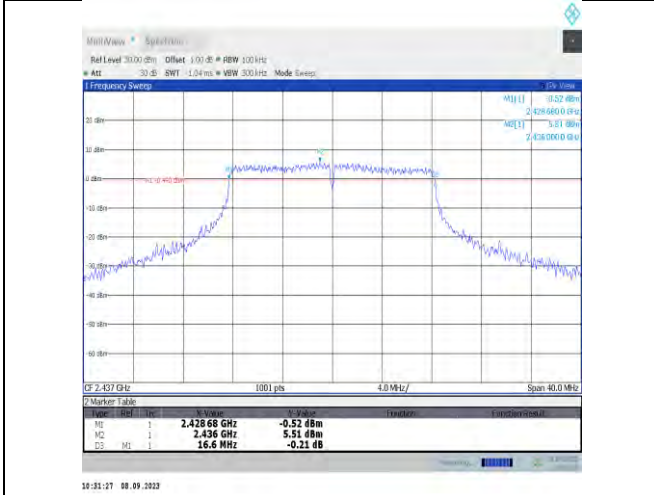




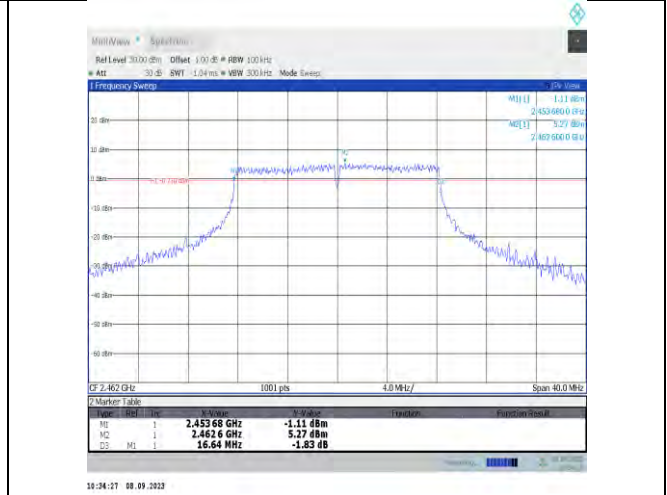
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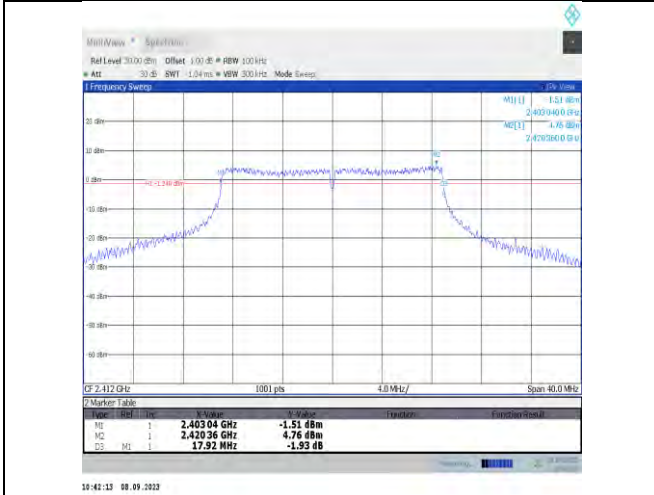
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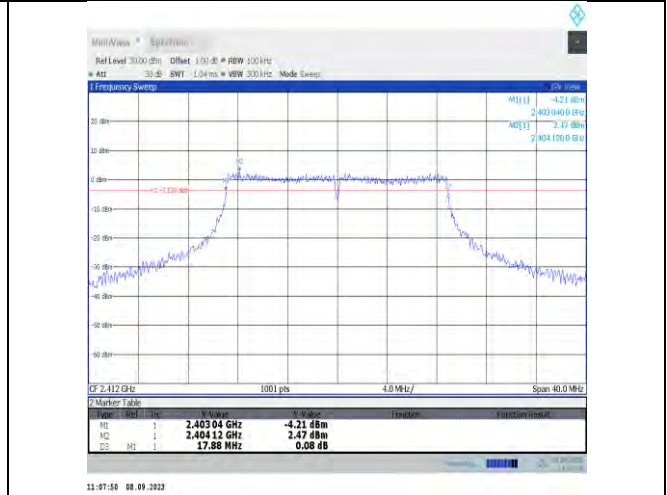
11g-Ant9-2437-PASS



11g-Ant9-2462-PASS



11n20MIMO-Ant7-2412-PASS

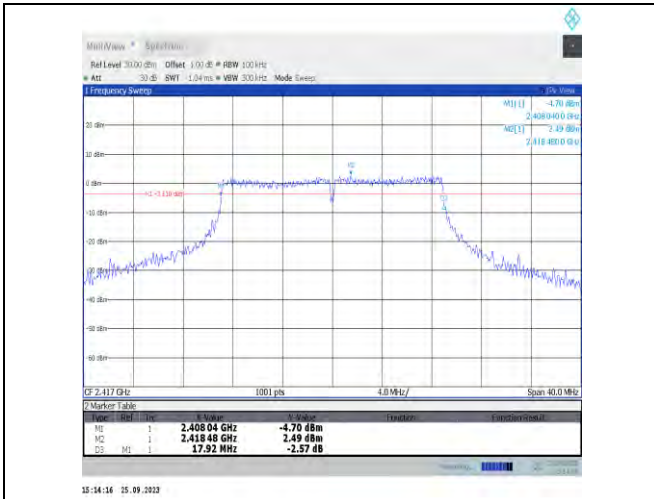


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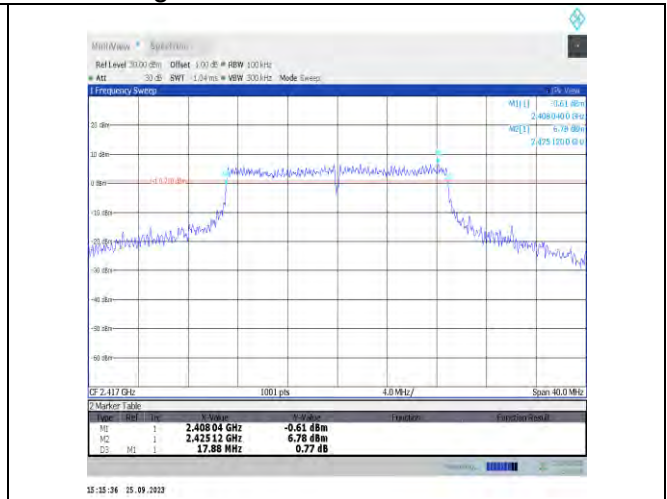


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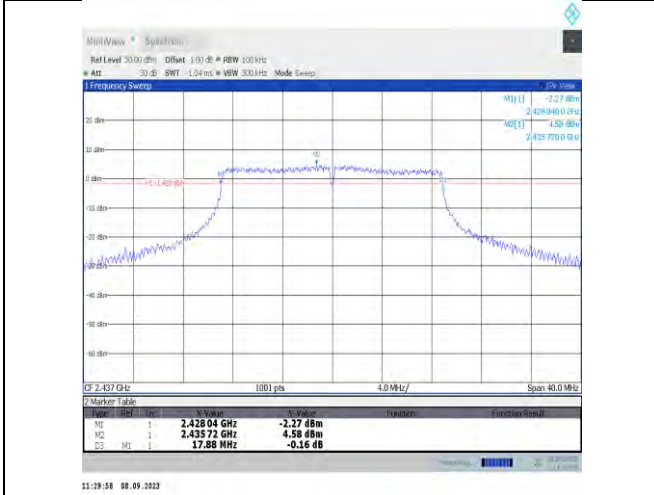
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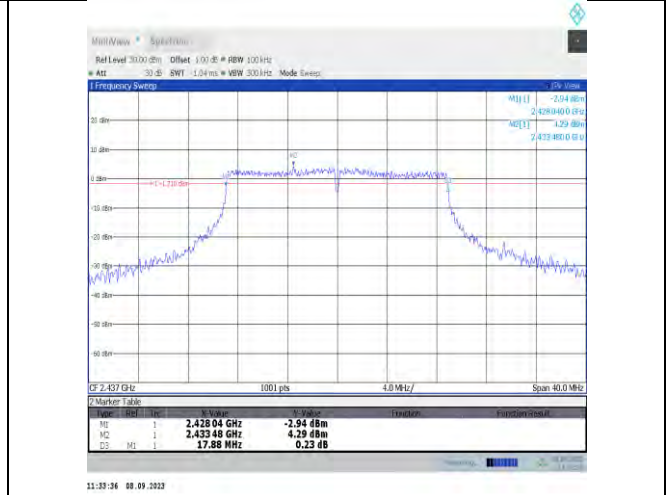
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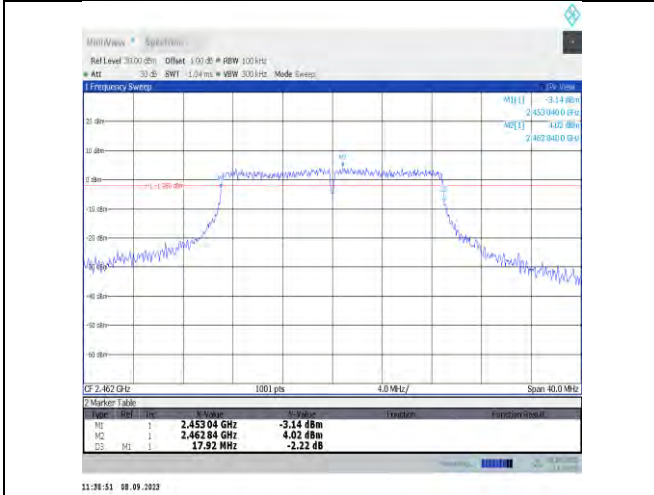
11n20MIMO-Ant9-2417-PASS



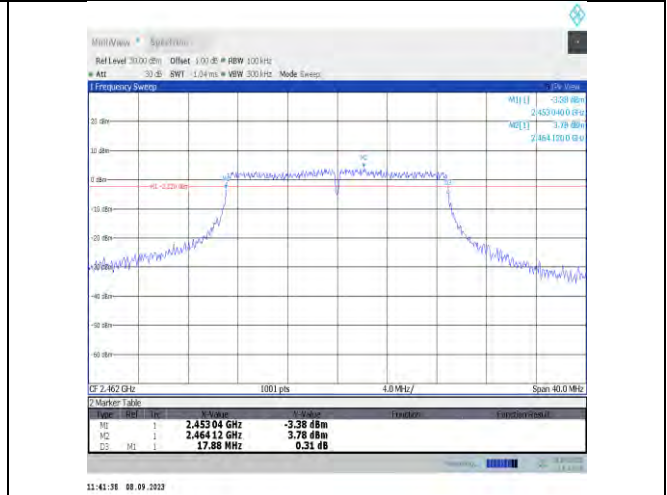
11n20MIMO-Ant7-2437-PASS



11n20MIMO-Ant9-2437-PASS



11n20MIMO-Ant7-2462-PASS

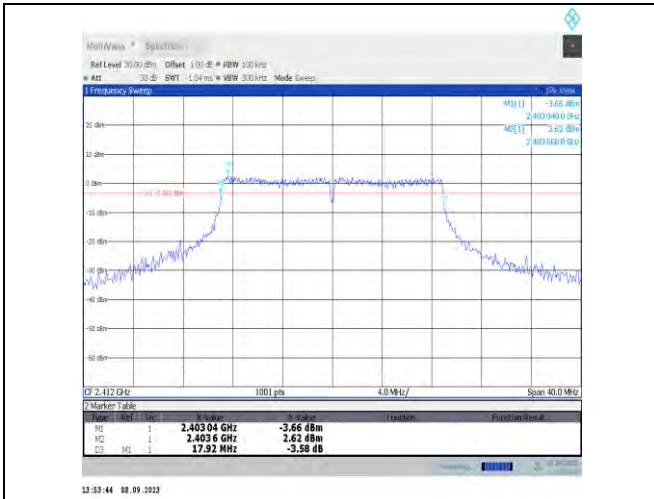


11n20MIMO-Ant9-2462-PASS

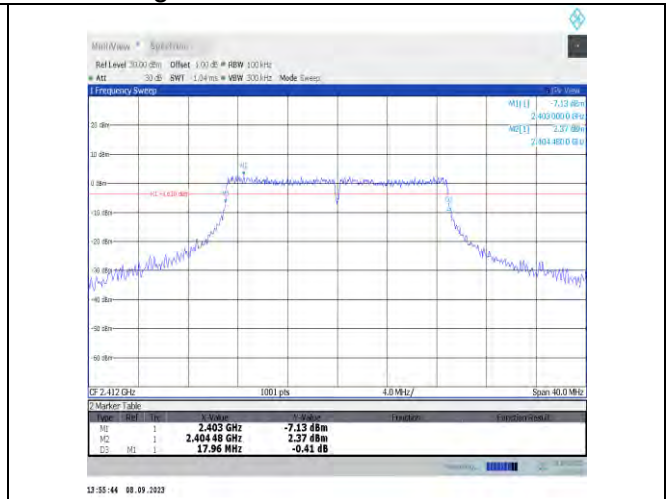


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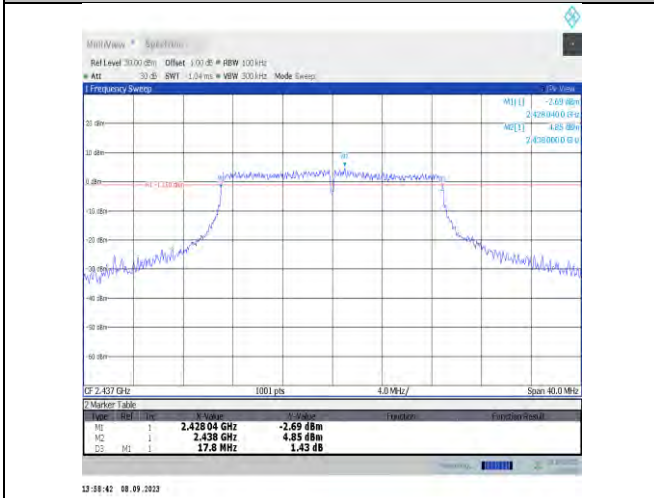
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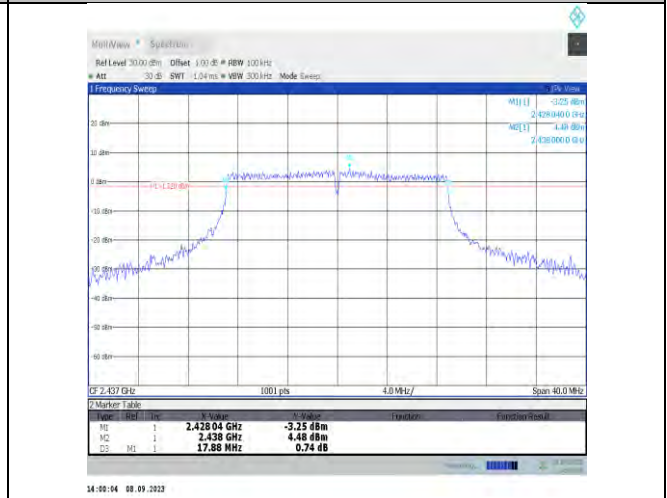
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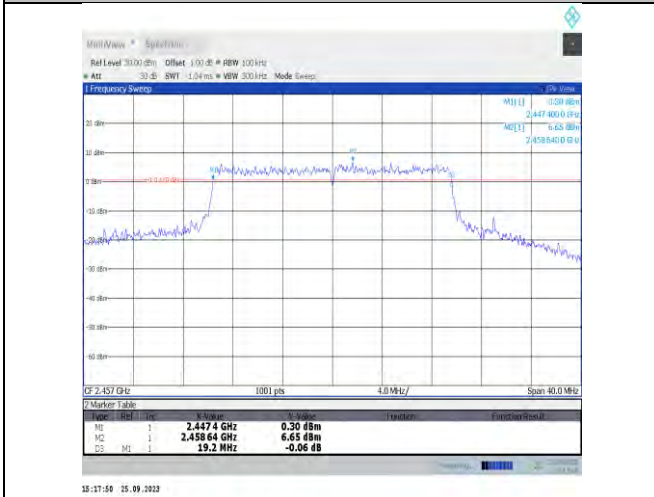
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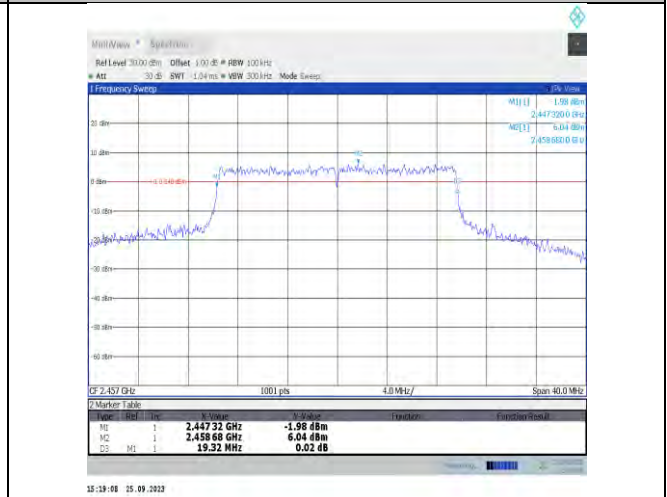
11x20MIMO-Ant7-2437-PASS



11x20MIMO-Ant9-2437-PASS



11x20MIMO-Ant7-2457-PASS

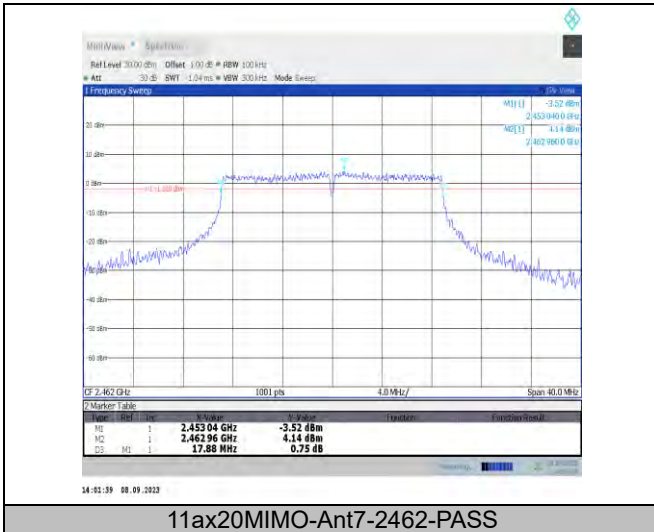


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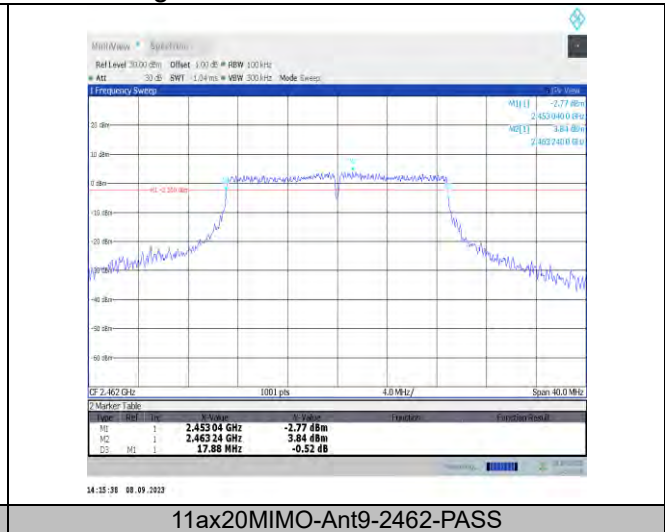


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11ax20MIMO-Ant7-2462-PASS



11ax20MIMO-Ant9-2462-PASS



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### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant9	2412	13.158	2405.3799	2418.5376	For Report Purpose
11b	Ant9	2437	12.59	2430.6335	2443.2236	
11b	Ant9	2462	12.2	2455.9514	2468.1515	
11g	Ant9	2412	18.312	2402.7712	2421.0830	
11g	Ant9	2417	17.768	2408.0420	2425.8098	
11g	Ant9	2437	17.312	2428.2776	2445.5900	
11g	Ant9	2462	17.371	2453.2801	2470.6515	
11n20MIMO	Ant7	2412	19.075	2402.4407	2421.5162	
11n20MIMO	Ant9	2412	18.701	2402.6039	2421.3050	
11n20MIMO	Ant7	2417	18.742	2407.6554	2426.3969	
11n20MIMO	Ant9	2417	19.057	2407.3876	2426.4448	
11n20MIMO	Ant7	2437	18.528	2427.6596	2446.1873	
11n20MIMO	Ant9	2437	18.499	2427.7168	2446.2158	
11n20MIMO	Ant7	2462	18.483	2452.6534	2471.1369	
11n20MIMO	Ant9	2462	18.506	2452.6565	2471.1622	
11ax20MIMO	Ant7	2412	18.806	2402.5695	2421.3755	
11ax20MIMO	Ant9	2412	18.774	2402.5909	2421.3651	
11ax20MIMO	Ant7	2437	18.501	2427.6916	2446.1929	
11ax20MIMO	Ant9	2437	18.516	2427.6942	2446.2107	
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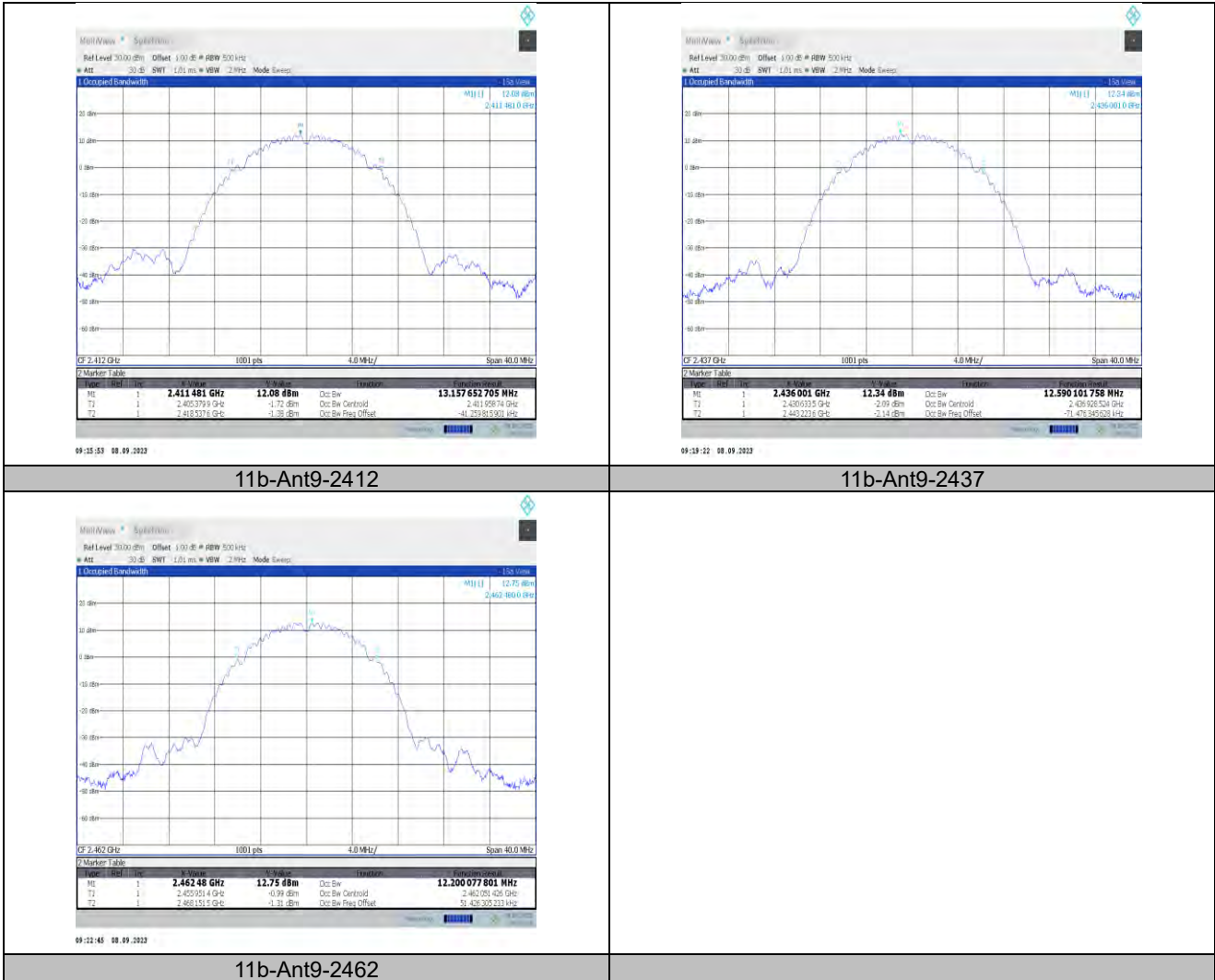


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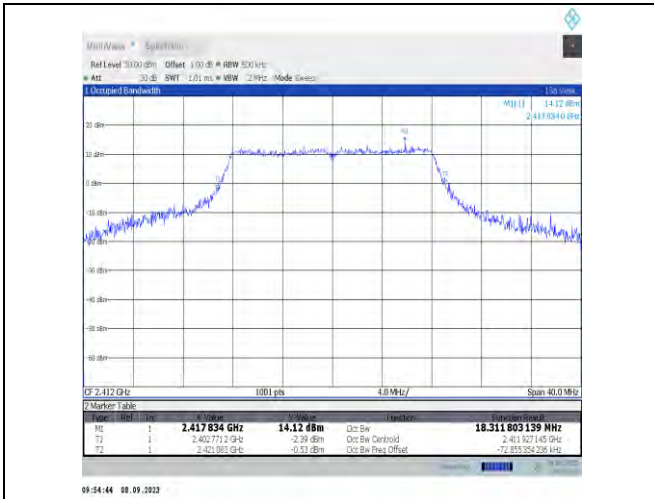
Test Graphs



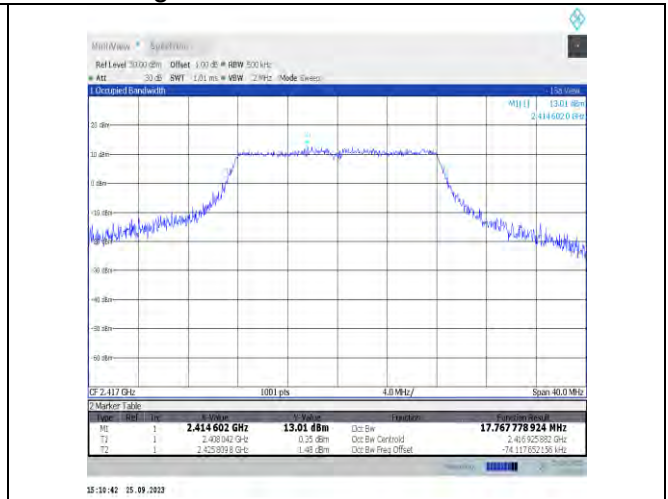
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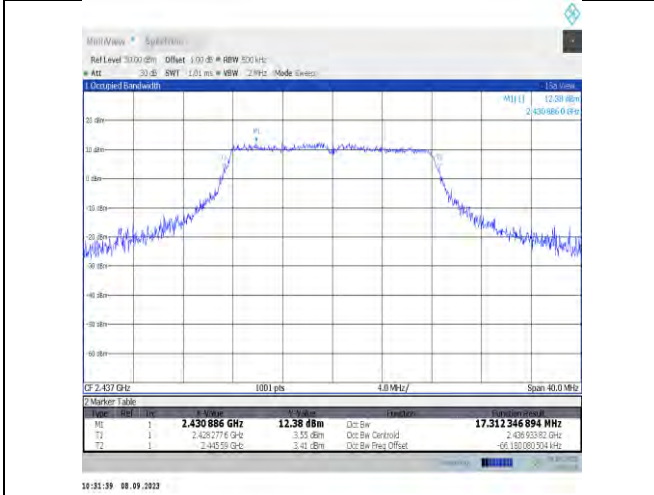
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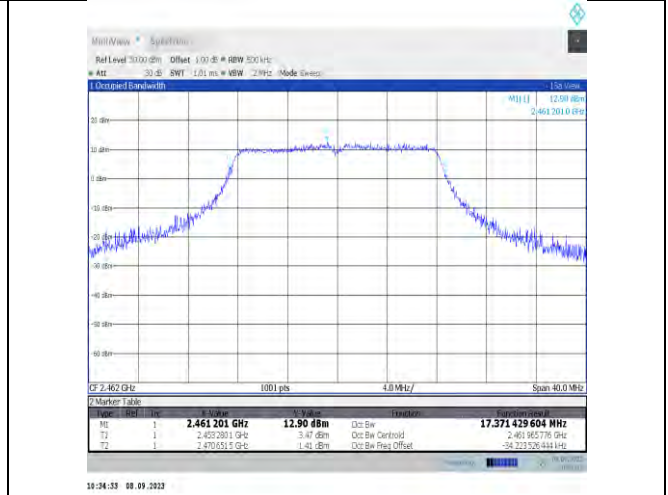
11g-Ant9-2412



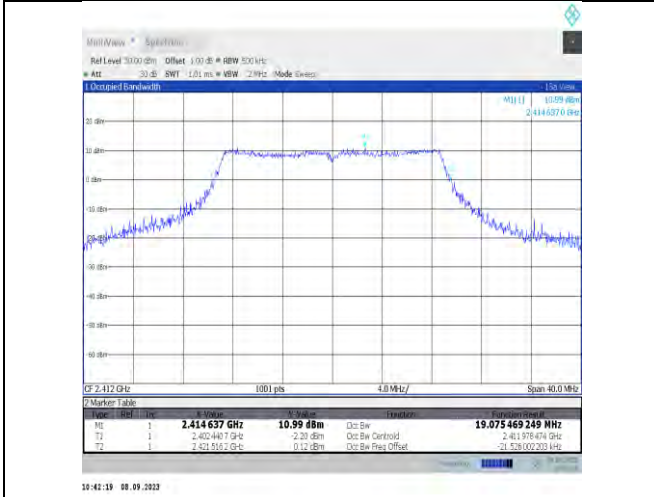
11g-Ant9-2417



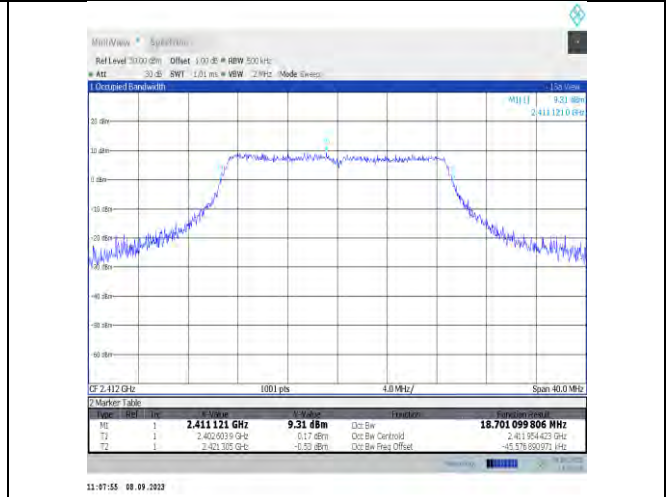
11g-Ant9-2437



11g-Ant9-2462



11n20MIMO-Ant7-2412

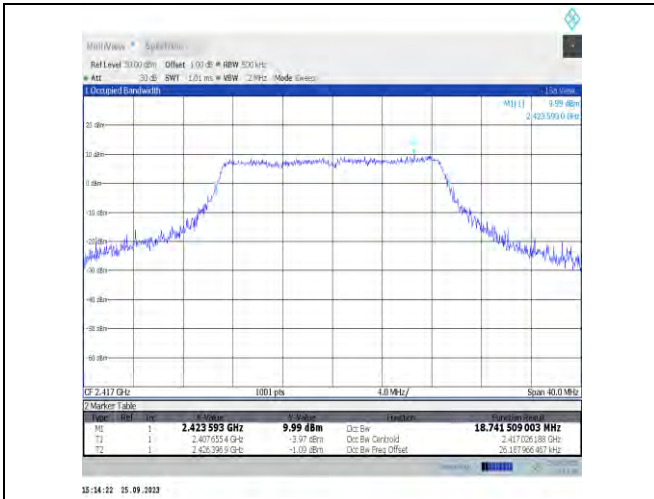


11n20MIMO-Ant9-2412

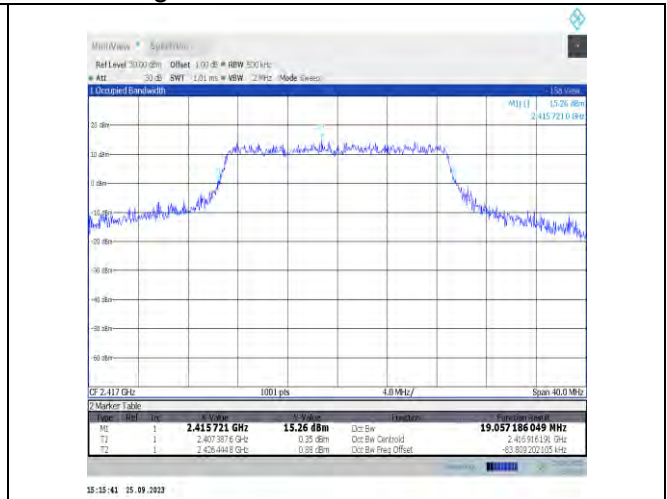


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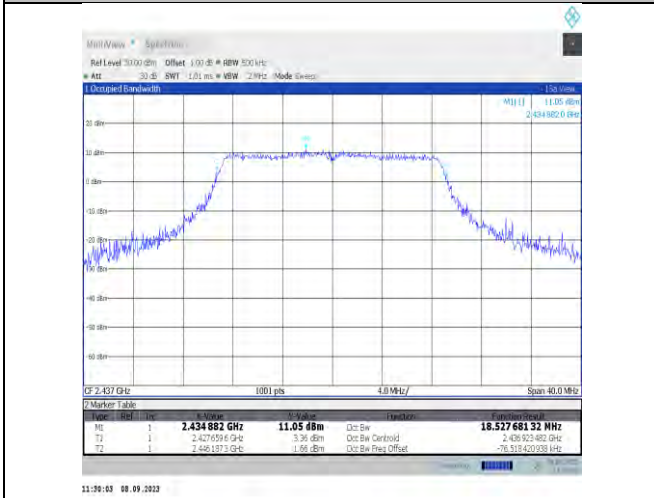
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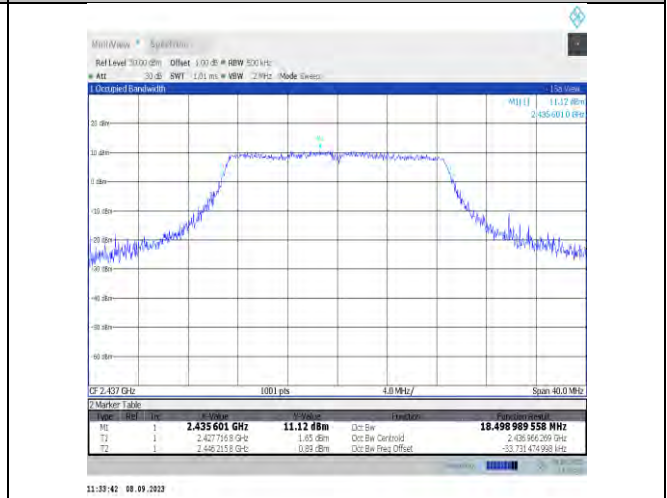
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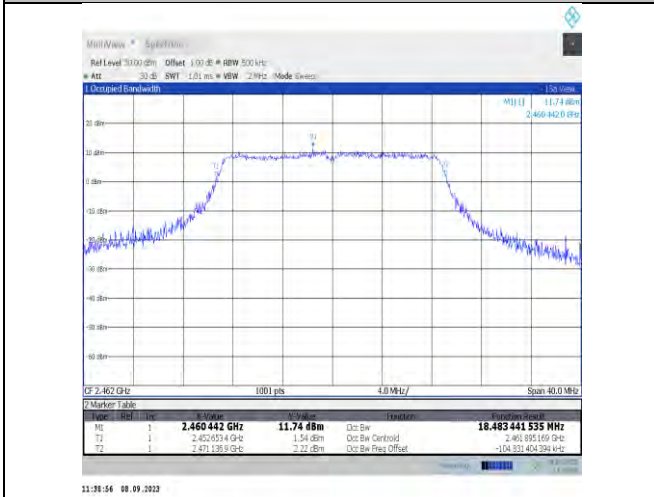
11n20MIMO-Ant9-2417



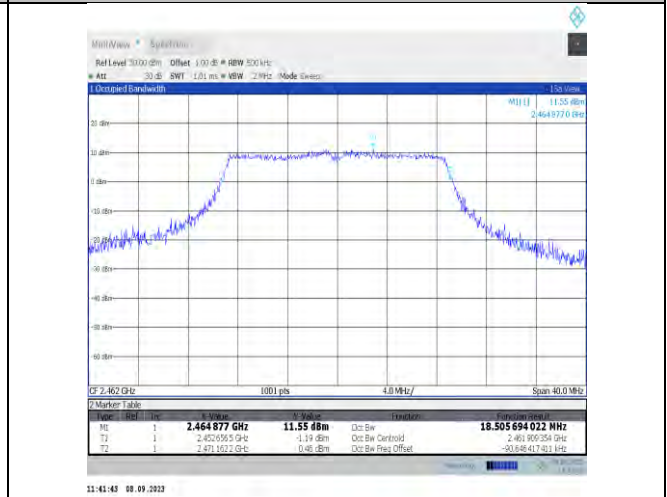
11n20MIMO-Ant7-2437



11n20MIMO-Ant9-2437



11n20MIMO-Ant7-2462



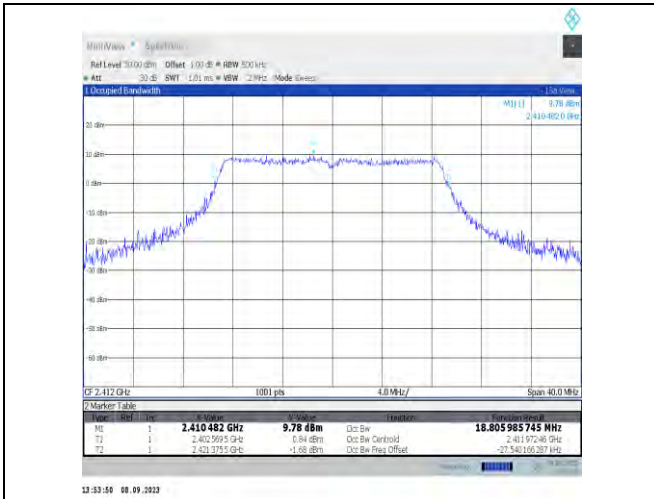
11n20MIMO-Ant9-2462



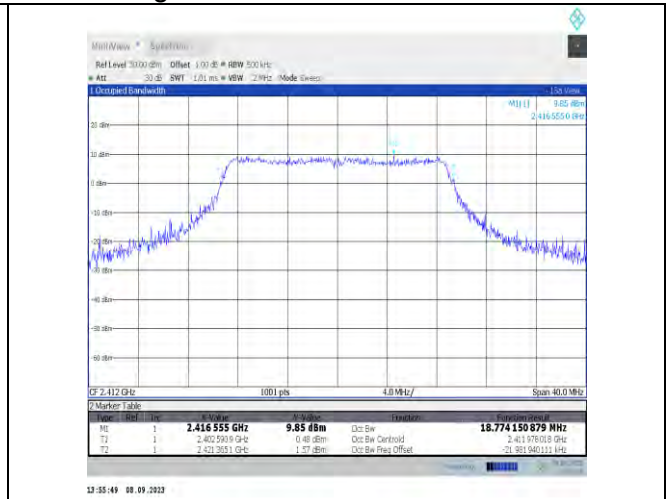
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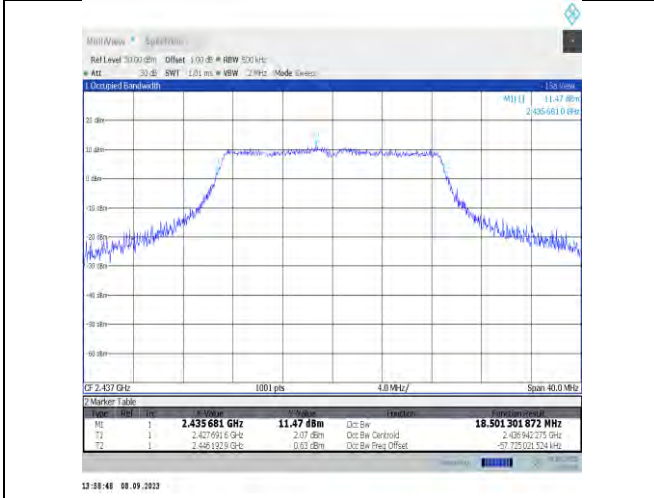




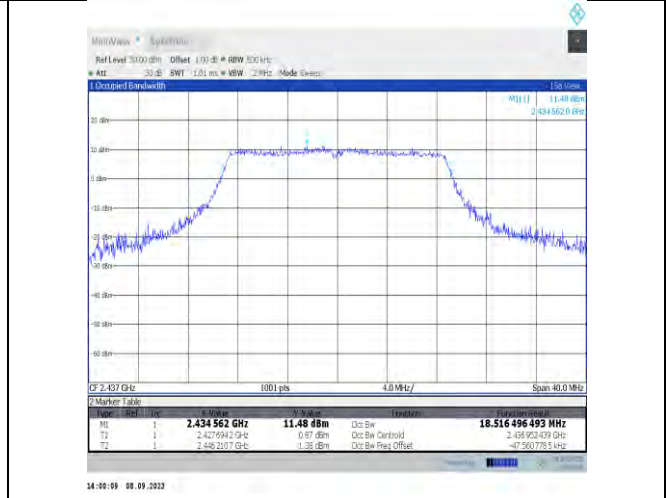
11ax20MIMO-Ant7-2412



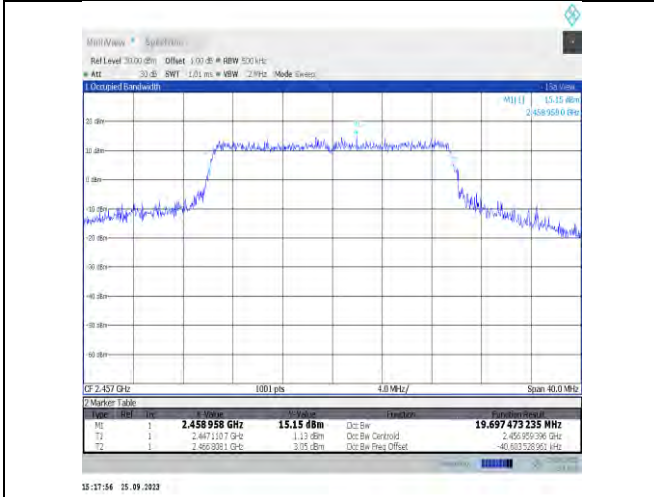
11ax20MIMO-Ant9-2412



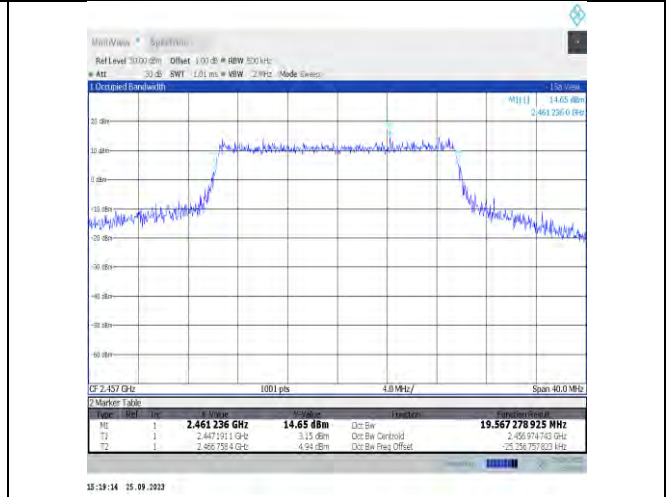
11ax20MIMO-Ant7-2437



11ax20MIMO-Ant9-2437



11ax20MIMO-Ant7-2457

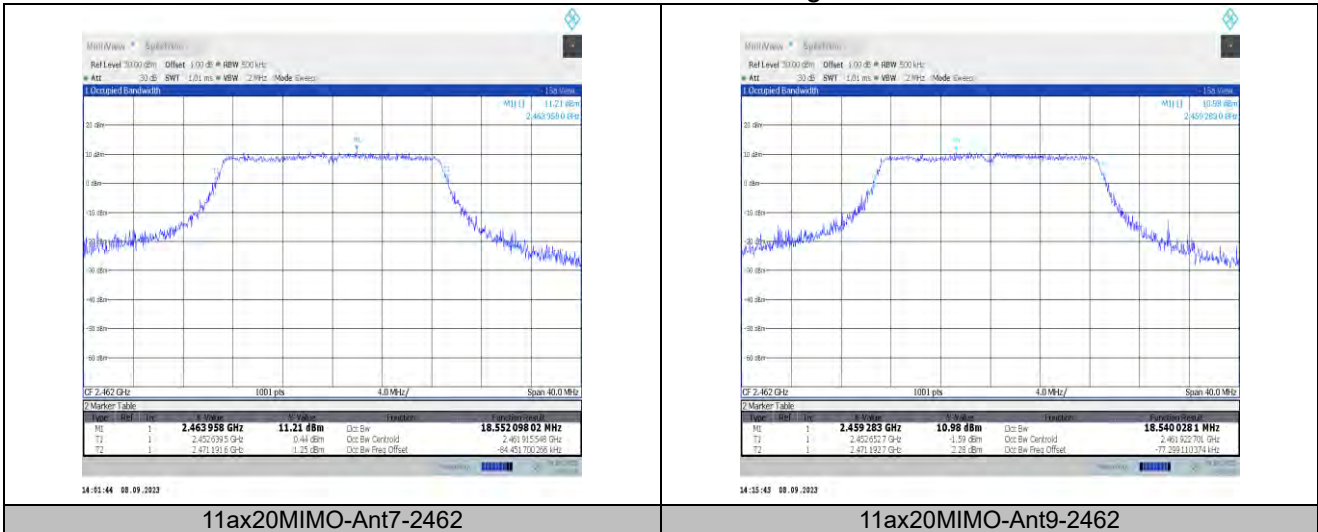


11ax20MIMO-Ant9-2457



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11ax20MIMO-Ant7-2462

11ax20MIMO-Ant9-2462



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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant7	2412	20.13	≤30.00	PASS
11b	Ant7	2437	22.39	≤30.00	PASS
11b	Ant7	2462	22.63	≤30.00	PASS
11g	Ant7	2412	23.32	≤30.00	PASS
11g	Ant7	2417	24.41	≤30.00	PASS
11g	Ant7	2437	24.43	≤30.00	PASS
11g	Ant7	2462	24.41	≤30.00	PASS
11b	Ant9	2412	22.10	≤30.00	PASS
11b	Ant9	2437	23.20	≤30.00	PASS
11b	Ant9	2462	24.03	≤30.00	PASS
11g	Ant9	2412	24.03	≤30.00	PASS
11g	Ant9	2417	24.71	≤30.00	PASS
11g	Ant9	2437	24.75	≤30.00	PASS
11g	Ant9	2462	24.69	≤30.00	PASS
11n20MIMO	Ant7	2412	23.42	≤30.00	PASS
11n20MIMO	Ant9	2412	24.03	≤30.00	PASS
11n20MIMO	total	2412	26.75	≤30.00	PASS
11n20MIMO	Ant7	2417	24.61	≤30.00	PASS
11n20MIMO	Ant9	2417	24.98	≤30.00	PASS
11n20MIMO	total	2417	27.81	≤30.00	PASS
11n20MIMO	Ant7	2437	24.63	≤30.00	PASS
11n20MIMO	Ant9	2437	25.03	≤30.00	PASS
11n20MIMO	total	2437	27.84	≤30.00	PASS
11n20MIMO	Ant7	2462	24.65	≤30.00	PASS
11n20MIMO	Ant9	2462	25.01	≤30.00	PASS
11n20MIMO	total	2462	27.84	≤30.00	PASS
11ax20MIMO	Ant7	2412	23.69	≤30.00	PASS
11ax20MIMO	Ant9	2412	24.35	≤30.00	PASS
11ax20MIMO	total	2412	27.04	≤30.00	PASS
11ax20MIMO	Ant7	2437	24.65	≤30.00	PASS
11ax20MIMO	Ant9	2437	25.03	≤30.00	PASS
11ax20MIMO	total	2437	27.85	≤30.00	PASS
11ax20MIMO	Ant7	2457	24.35	≤30.00	PASS
11ax20MIMO	Ant9	2457	24.89	≤30.00	PASS
11ax20MIMO	total	2457	27.64	≤30.00	PASS
11ax20MIMO	Ant7	2462	22.46	≤30.00	PASS
11ax20MIMO	Ant9	2462	23.06	≤30.00	PASS
11ax20MIMO	total	2462	25.78	≤30.00	PASS



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**Test Result Peak for AX Part RU**

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11ax20MIMO	Ant7	2412	26Tone	RU0	22.32	≤30.00	PASS
11ax20MIMO	Ant7	2412	52Tone	RU37	22.30	≤30.00	PASS
11ax20MIMO	Ant7	2412	106Tone	RU53	22.25	≤30.00	PASS
11ax20MIMO	Ant9	2412	26Tone	RU0	22.87	≤30.00	PASS
11ax20MIMO	Ant9	2412	52Tone	RU37	22.69	≤30.00	PASS
11ax20MIMO	Ant9	2412	106Tone	RU53	22.65	≤30.00	PASS
11ax20MIMO	total	2412	26Tone	RU0	25.61	≤30.00	PASS
11ax20MIMO	total	2412	52Tone	RU37	25.51	≤30.00	PASS
11ax20MIMO	total	2412	106Tone	RU53	25.46	≤30.00	PASS
11ax20MIMO	Ant7	2437	26Tone	RU4	22.23	≤30.00	PASS
11ax20MIMO	Ant7	2437	52Tone	RU38	22.33	≤30.00	PASS
11ax20MIMO	Ant7	2437	106Tone	RU53	22.39	≤30.00	PASS
11ax20MIMO	Ant9	2437	26Tone	RU4	22.59	≤30.00	PASS
11ax20MIMO	Ant9	2437	52Tone	RU38	22.53	≤30.00	PASS
11ax20MIMO	Ant9	2437	106Tone	RU53	22.61	≤30.00	PASS
11ax20MIMO	total	2437	26Tone	RU4	25.42	≤30.00	PASS
11ax20MIMO	total	2437	52Tone	RU38	25.44	≤30.00	PASS
11ax20MIMO	total	2437	106Tone	RU53	25.51	≤30.00	PASS
11ax20MIMO	Ant7	2462	26Tone	RU8	22.43	≤30.00	PASS
11ax20MIMO	Ant7	2462	52Tone	RU40	22.41	≤30.00	PASS
11ax20MIMO	Ant7	2462	106Tone	RU54	22.53	≤30.00	PASS
11ax20MIMO	Ant9	2462	26Tone	RU8	22.60	≤30.00	PASS
11ax20MIMO	Ant9	2462	52Tone	RU40	22.69	≤30.00	PASS
11ax20MIMO	Ant9	2462	106Tone	RU54	22.79	≤30.00	PASS
11ax20MIMO	total	2462	26Tone	RU8	25.53	≤30.00	PASS
11ax20MIMO	total	2462	52Tone	RU40	25.56	≤30.00	PASS
11ax20MIMO	total	2462	106Tone	RU54	25.67	≤30.00	PASS



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**Maximum power spectral density  
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant9	2412	-1.51	≤8.00	PASS
11b	Ant9	2437	-1.39	≤8.00	PASS
11b	Ant9	2462	-1.78	≤8.00	PASS
11g	Ant9	2412	-4.6	≤8.00	PASS
11g	Ant9	2417	-5.72	≤8.00	PASS
11g	Ant9	2437	-5.78	≤8.00	PASS
11g	Ant9	2462	-5.38	≤8.00	PASS
11n20MIMO	Ant7	2412	-7.47	≤8.00	PASS
11n20MIMO	Ant9	2412	-9.54	≤8.00	PASS
11n20MIMO	total	2412	-5.37	≤8.00	PASS
11n20MIMO	Ant7	2417	-9.17	≤8.00	PASS
11n20MIMO	Ant9	2417	-5.27	≤8.00	PASS
11n20MIMO	total	2417	-3.79	≤8.00	PASS
11n20MIMO	Ant7	2437	-6.7	≤8.00	PASS
11n20MIMO	Ant9	2437	-7.23	≤8.00	PASS
11n20MIMO	total	2437	-3.95	≤8.00	PASS
11n20MIMO	Ant7	2462	-7.17	≤8.00	PASS
11n20MIMO	Ant9	2462	-5.11	≤8.00	PASS
11n20MIMO	total	2462	-3.01	≤8.00	PASS
11ax20MIMO	Ant7	2412	-8.4	≤8.00	PASS
11ax20MIMO	Ant9	2412	-8.37	≤8.00	PASS
11ax20MIMO	total	2412	-5.37	≤8.00	PASS
11ax20MIMO	Ant7	2437	-7.57	≤8.00	PASS
11ax20MIMO	Ant9	2437	-7.2	≤8.00	PASS
11ax20MIMO	total	2437	-4.37	≤8.00	PASS
11ax20MIMO	Ant7	2457	-6.15	≤8.00	PASS
11ax20MIMO	Ant9	2457	-6.27	≤8.00	PASS
11ax20MIMO	total	2457	-3.20	≤8.00	PASS
11ax20MIMO	Ant7	2462	-9.72	≤8.00	PASS
11ax20MIMO	Ant9	2462	-8.90	≤8.00	PASS
11ax20MIMO	total	2462	-6.28	≤8.00	PASS



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**Test Result for AX Part RU**

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11ax20MIMO	Ant7	2412	26Tone	RU0	2.18	≤8.00	PASS
11ax20MIMO	Ant7	2412	52Tone	RU37	-1.88	≤8.00	PASS
11ax20MIMO	Ant7	2412	106Tone	RU53	-2.56	≤8.00	PASS
11ax20MIMO	Ant9	2412	26Tone	RU0	3.89	≤8.00	PASS
11ax20MIMO	Ant9	2412	52Tone	RU37	-1.05	≤8.00	PASS
11ax20MIMO	Ant9	2412	106Tone	RU53	-6.11	≤8.00	PASS
11ax20MIMO	total	2412	26Tone	RU0	6.13	≤8.00	PASS
11ax20MIMO	total	2412	52Tone	RU37	1.57	≤8.00	PASS
11ax20MIMO	total	2412	106Tone	RU53	-0.97	≤8.00	PASS
11ax20MIMO	Ant7	2437	26Tone	RU4	2.87	≤8.00	PASS
11ax20MIMO	Ant7	2437	52Tone	RU38	-1.09	≤8.00	PASS
11ax20MIMO	Ant7	2437	106Tone	RU53	-5.24	≤8.00	PASS
11ax20MIMO	Ant9	2437	26Tone	RU4	-0.87	≤8.00	PASS
11ax20MIMO	Ant9	2437	52Tone	RU38	1.37	≤8.00	PASS
11ax20MIMO	Ant9	2437	106Tone	RU53	-5.34	≤8.00	PASS
11ax20MIMO	total	2437	26Tone	RU4	4.40	≤8.00	PASS
11ax20MIMO	total	2437	52Tone	RU38	3.32	≤8.00	PASS
11ax20MIMO	total	2437	106Tone	RU53	-2.28	≤8.00	PASS
11ax20MIMO	Ant7	2462	26Tone	RU8	2.43	≤8.00	PASS
11ax20MIMO	Ant7	2462	52Tone	RU40	0.93	≤8.00	PASS
11ax20MIMO	Ant7	2462	106Tone	RU54	-5.99	≤8.00	PASS
11ax20MIMO	Ant9	2462	26Tone	RU8	2.63	≤8.00	PASS
11ax20MIMO	Ant9	2462	52Tone	RU40	0.82	≤8.00	PASS
11ax20MIMO	Ant9	2462	106Tone	RU54	-5.04	≤8.00	PASS
11ax20MIMO	total	2462	26Tone	RU8	5.54	≤8.00	PASS
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11ax20MIMO	total	2462	106Tone	RU54	-2.48	≤8.00	PASS

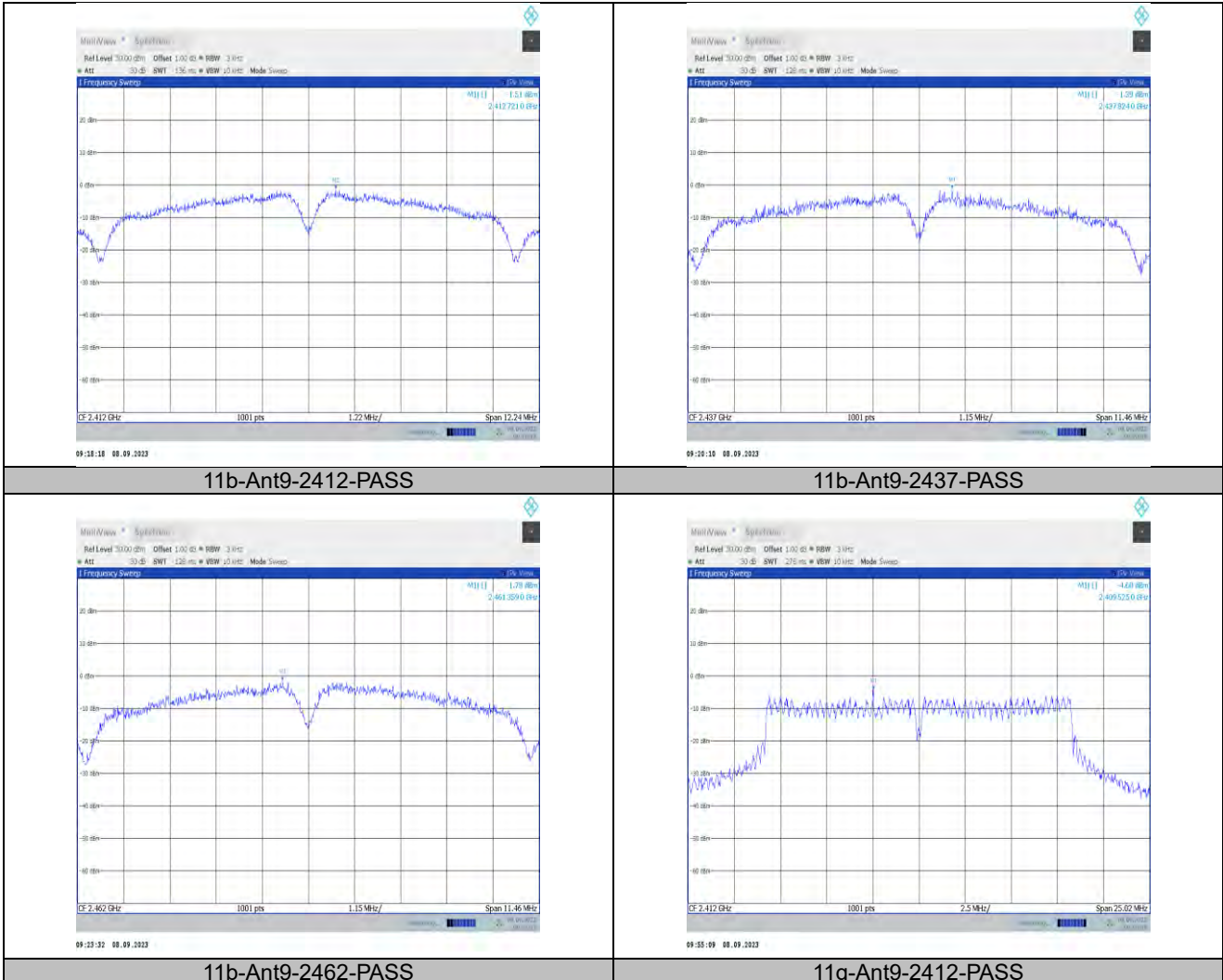


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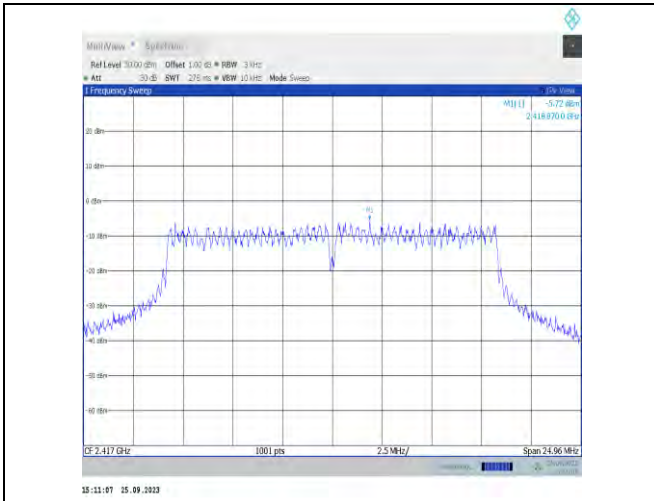
Test Graphs



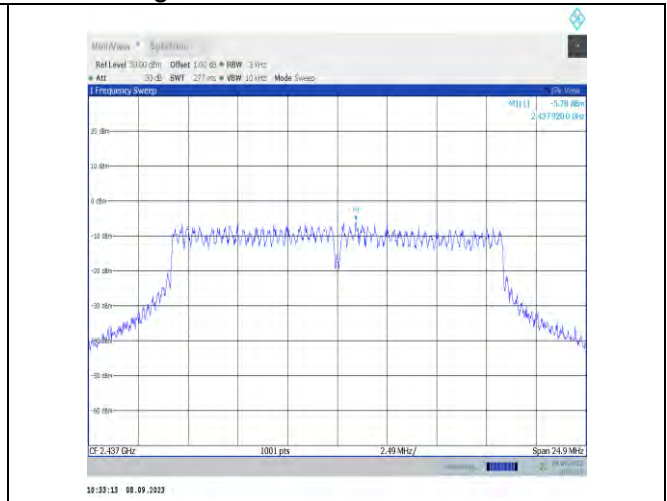
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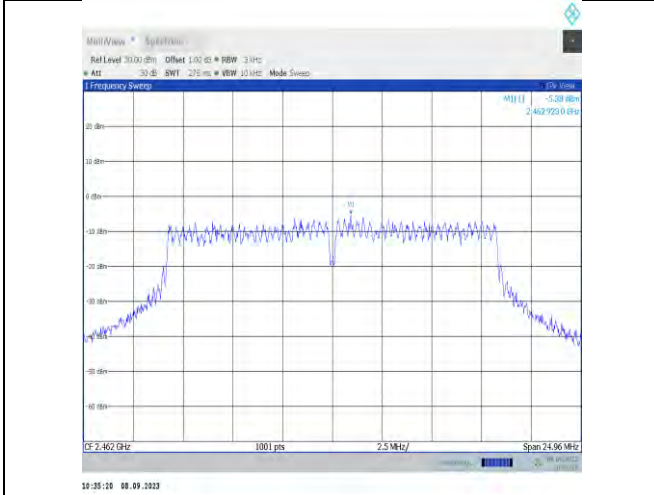
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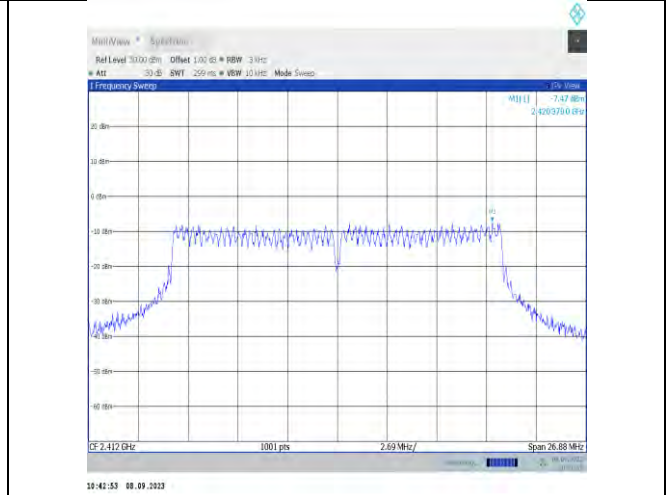
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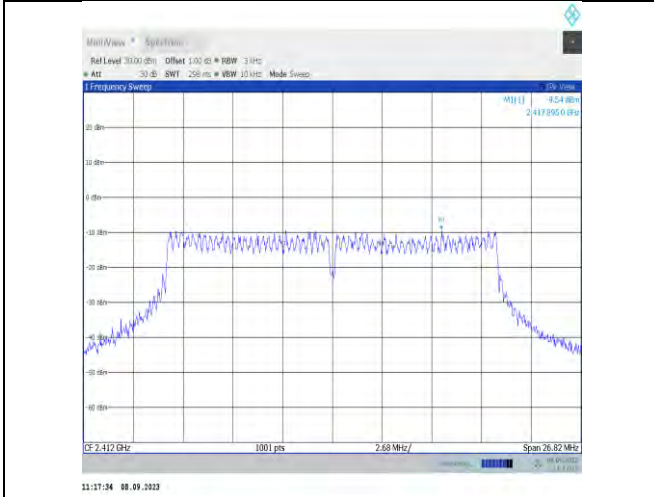
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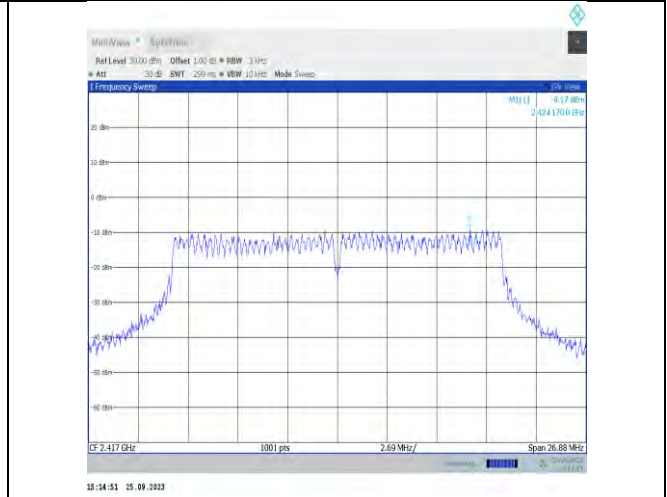
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11n20MIMO-Ant7-2412-PASS



11n20MIMO-Ant9-2412-PASS



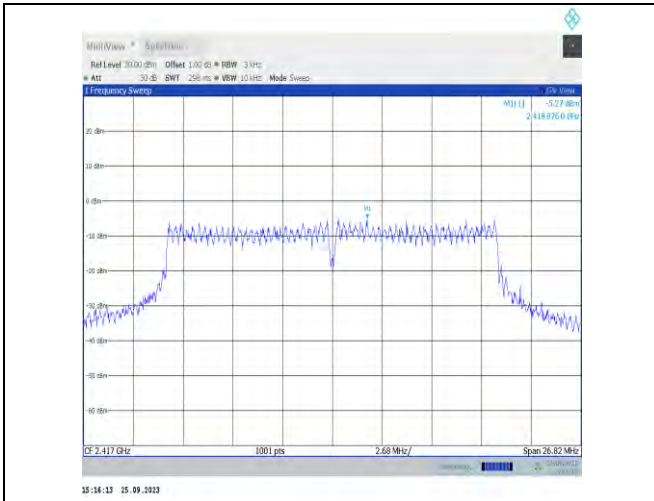
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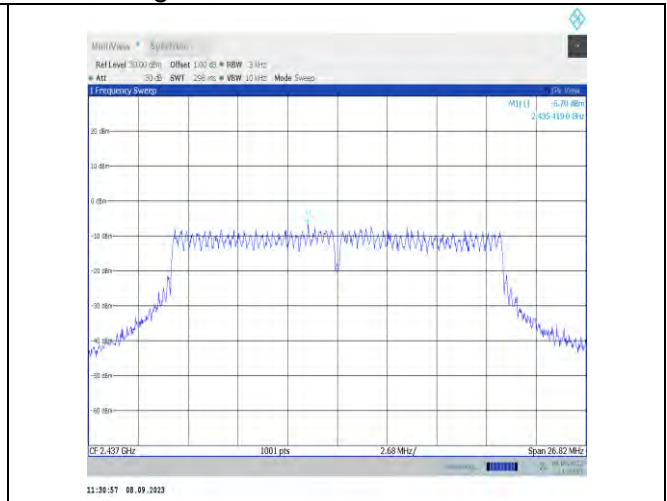
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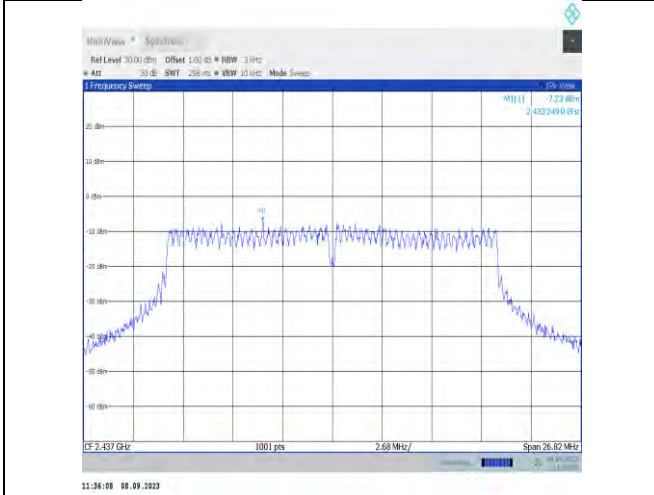




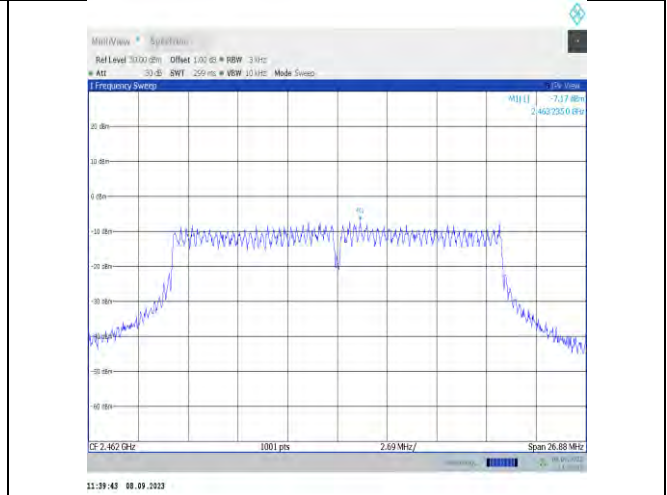
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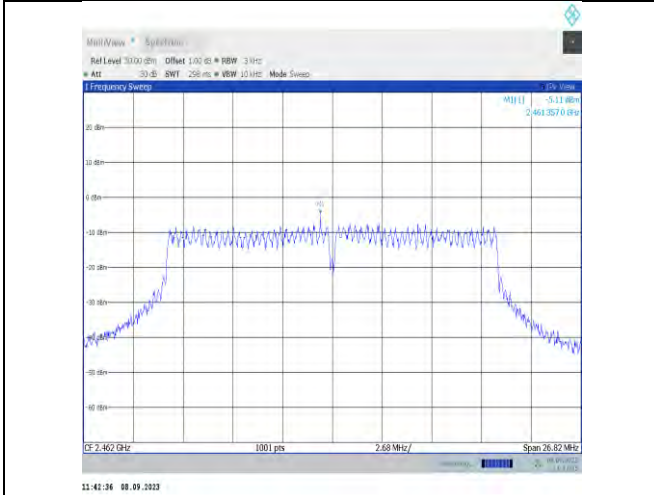
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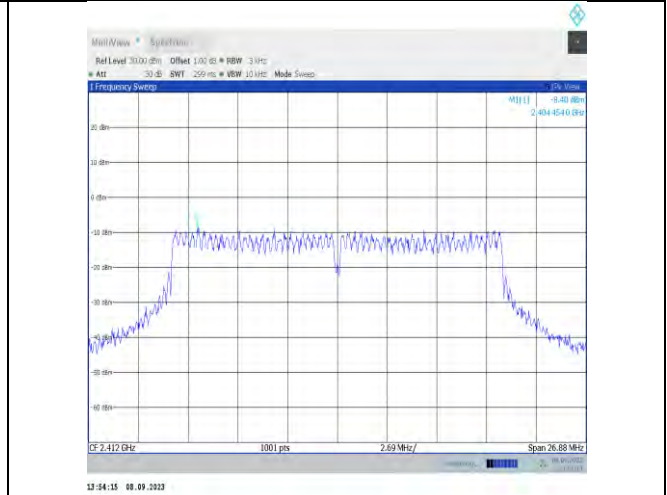
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11n20MIMO-Ant7-2462-PASS



11n20MIMO-Ant9-2462-PASS

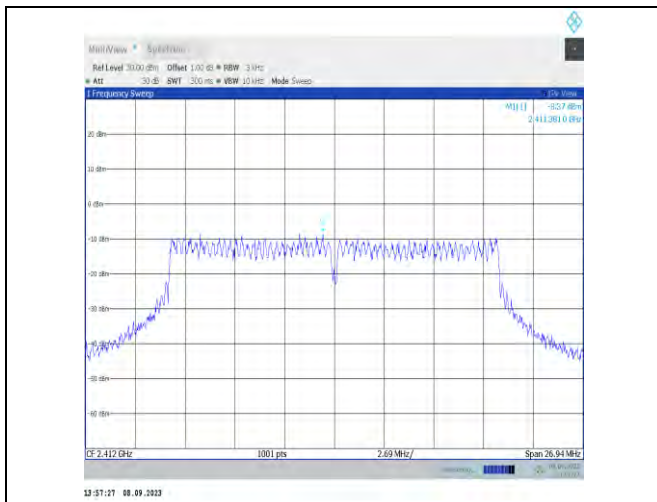


11ax20MIMO-Ant7-2412-PASS

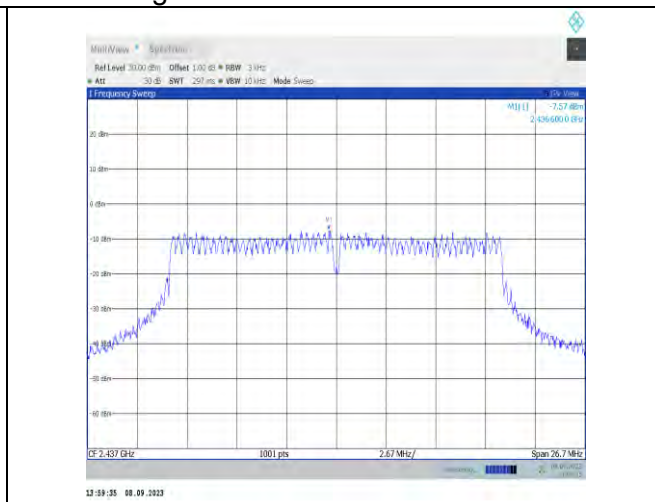


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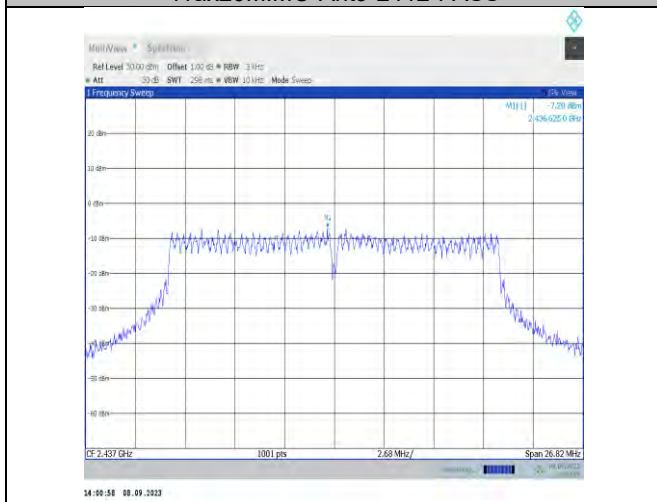
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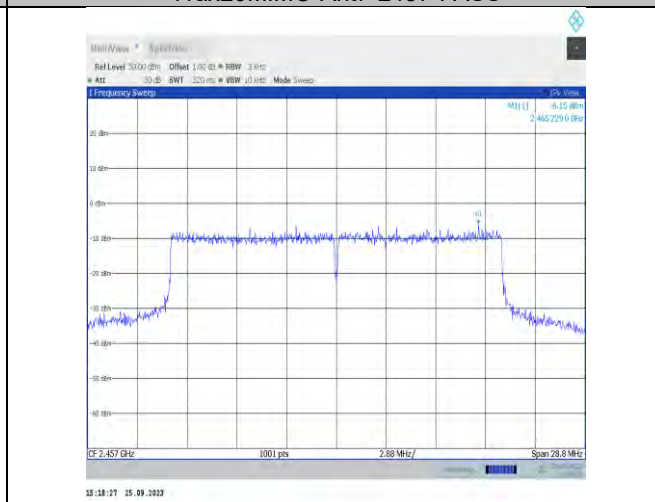
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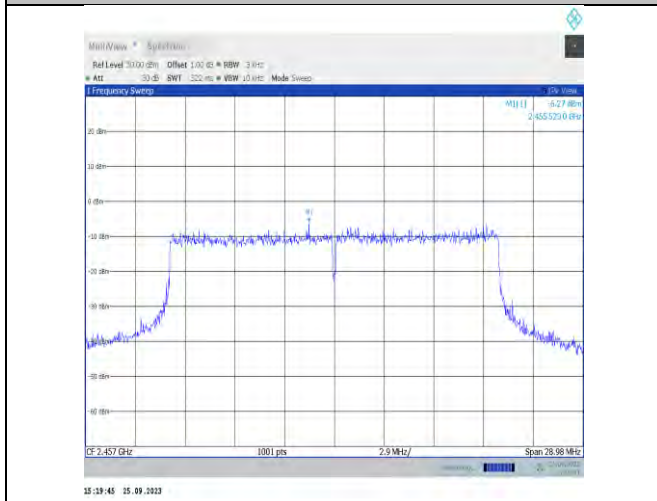
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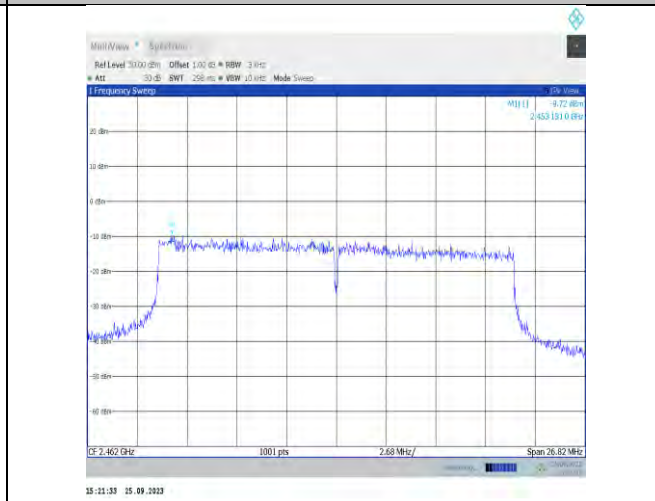
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11ax20MIMO-Ant7-2457-PASS



11ax20MIMO-Ant9-2457-PASS



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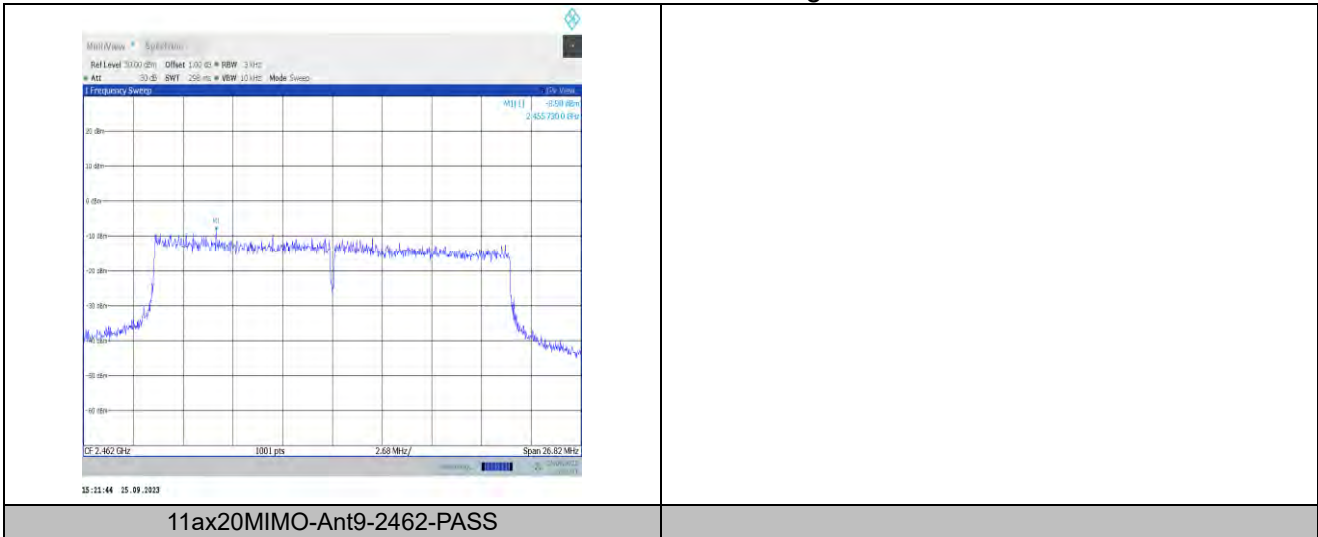


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11ax20MIMO-Ant9-2462-PASS

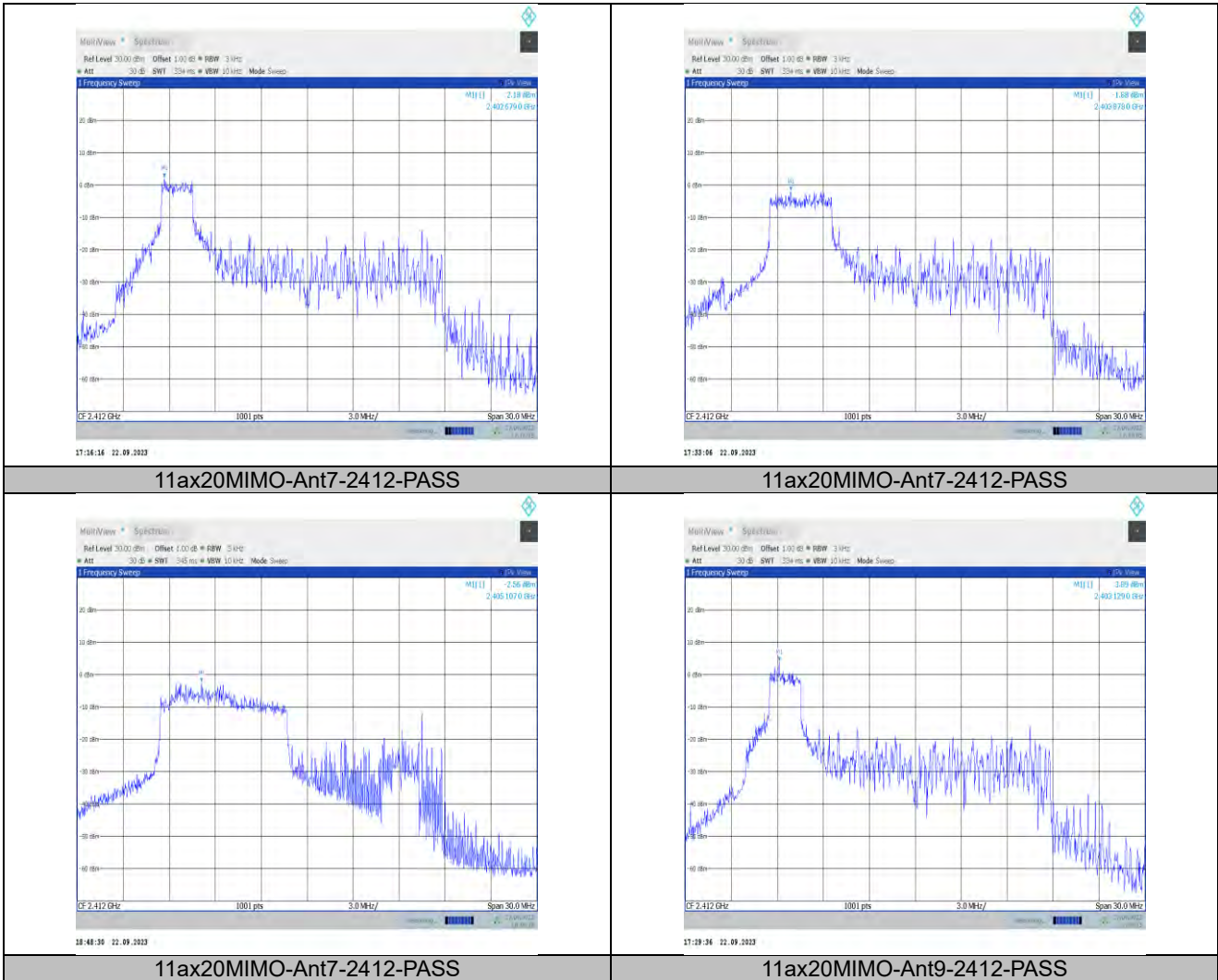


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Test Graphs for AX Part RU



11ax20MIMO-Ant7-2412-PASS

11ax20MIMO-Ant7-2412-PASS

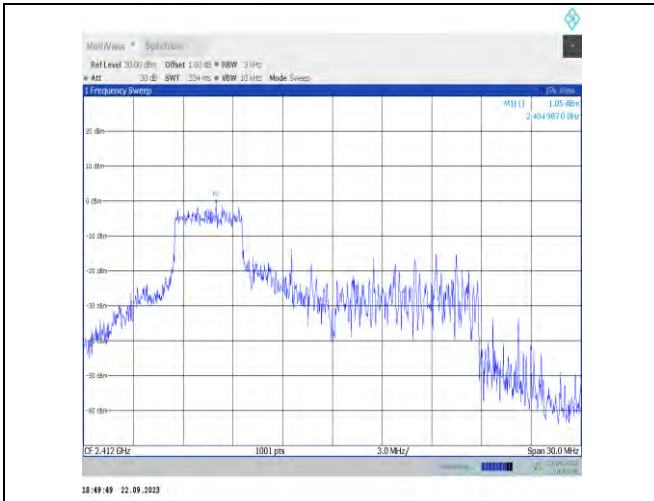
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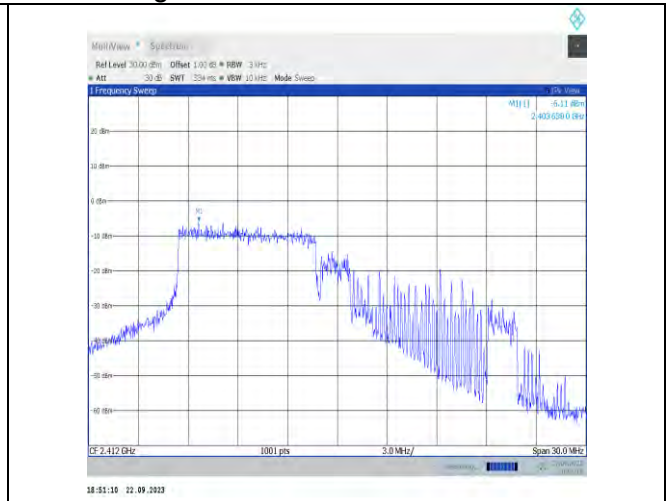


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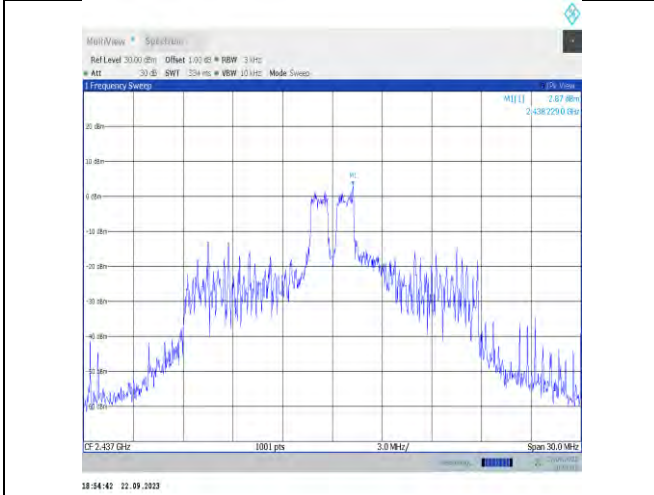
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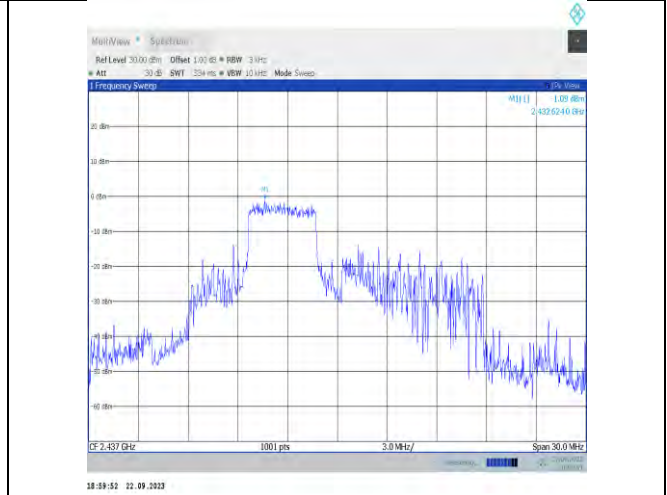
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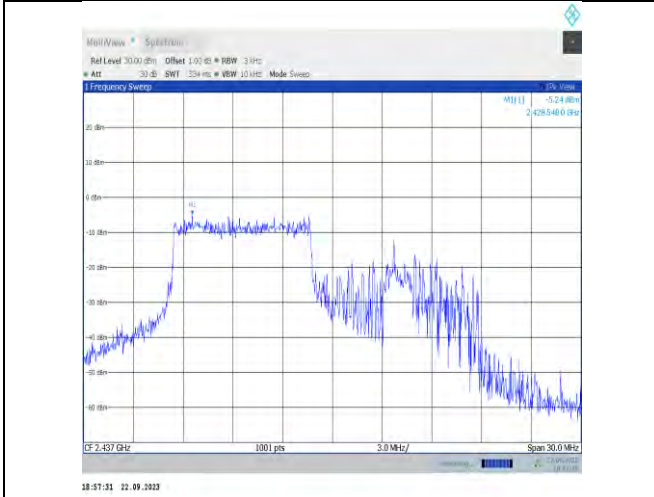
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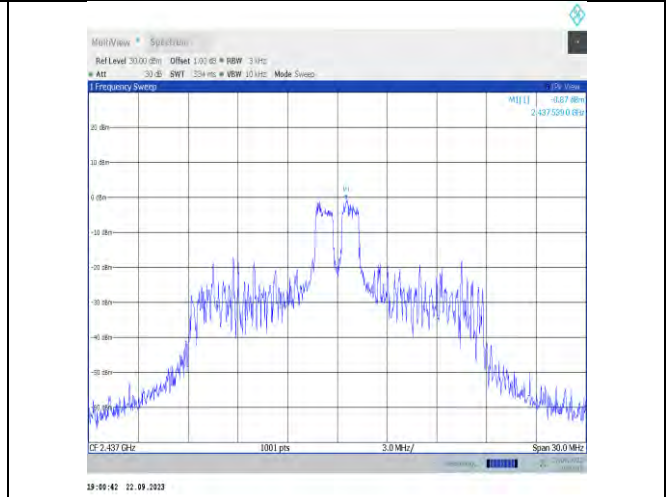
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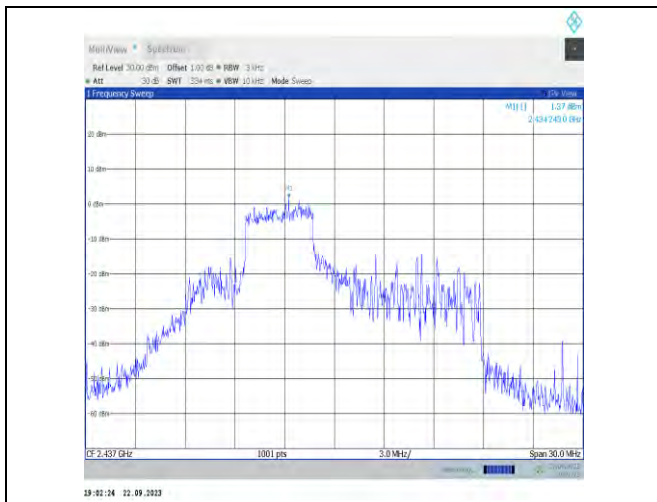


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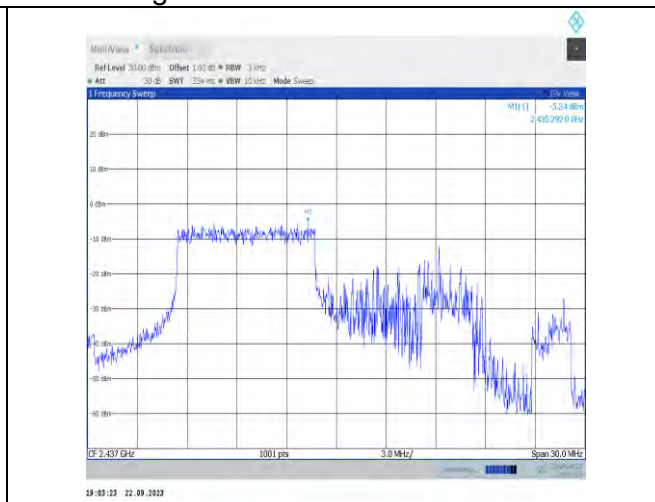


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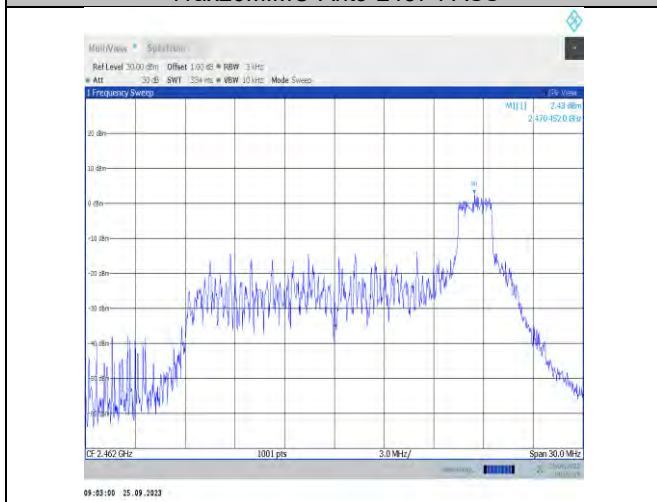
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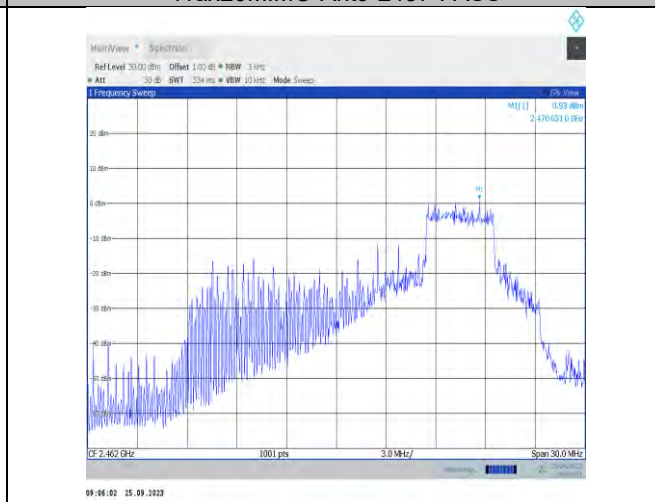
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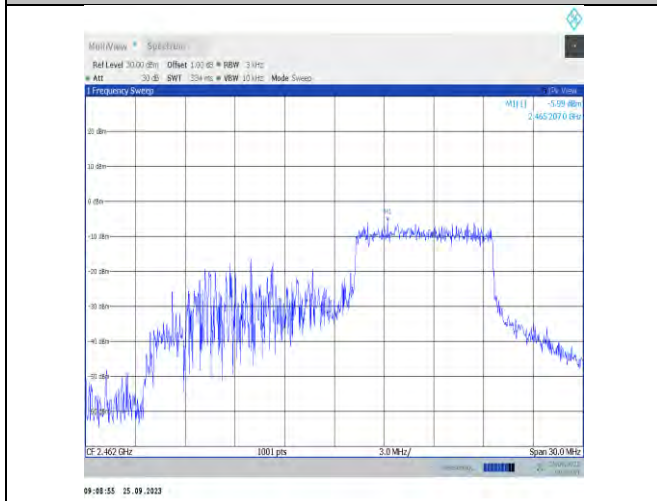
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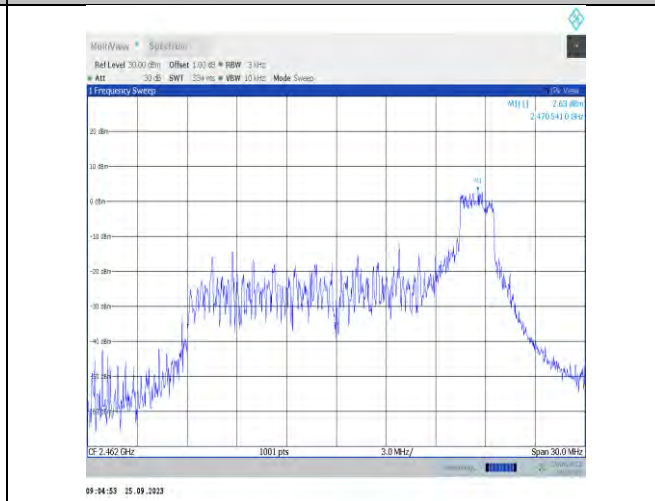
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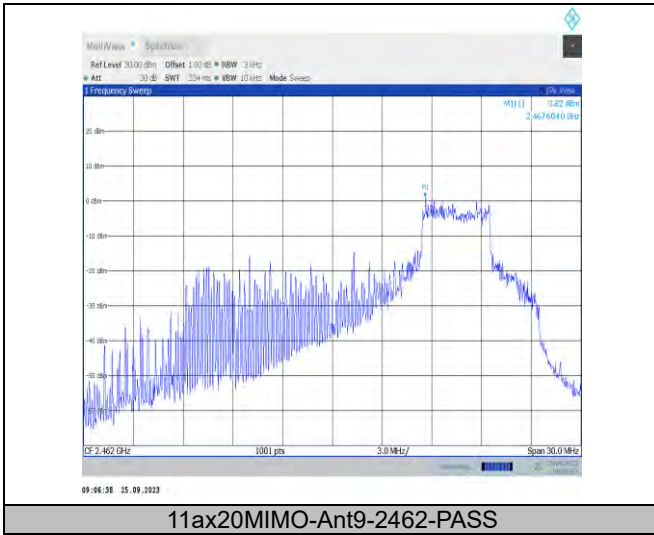


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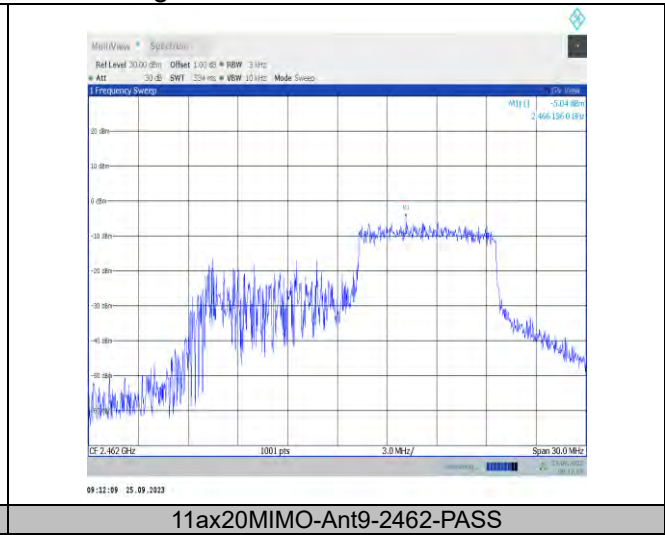
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Rev.: 01

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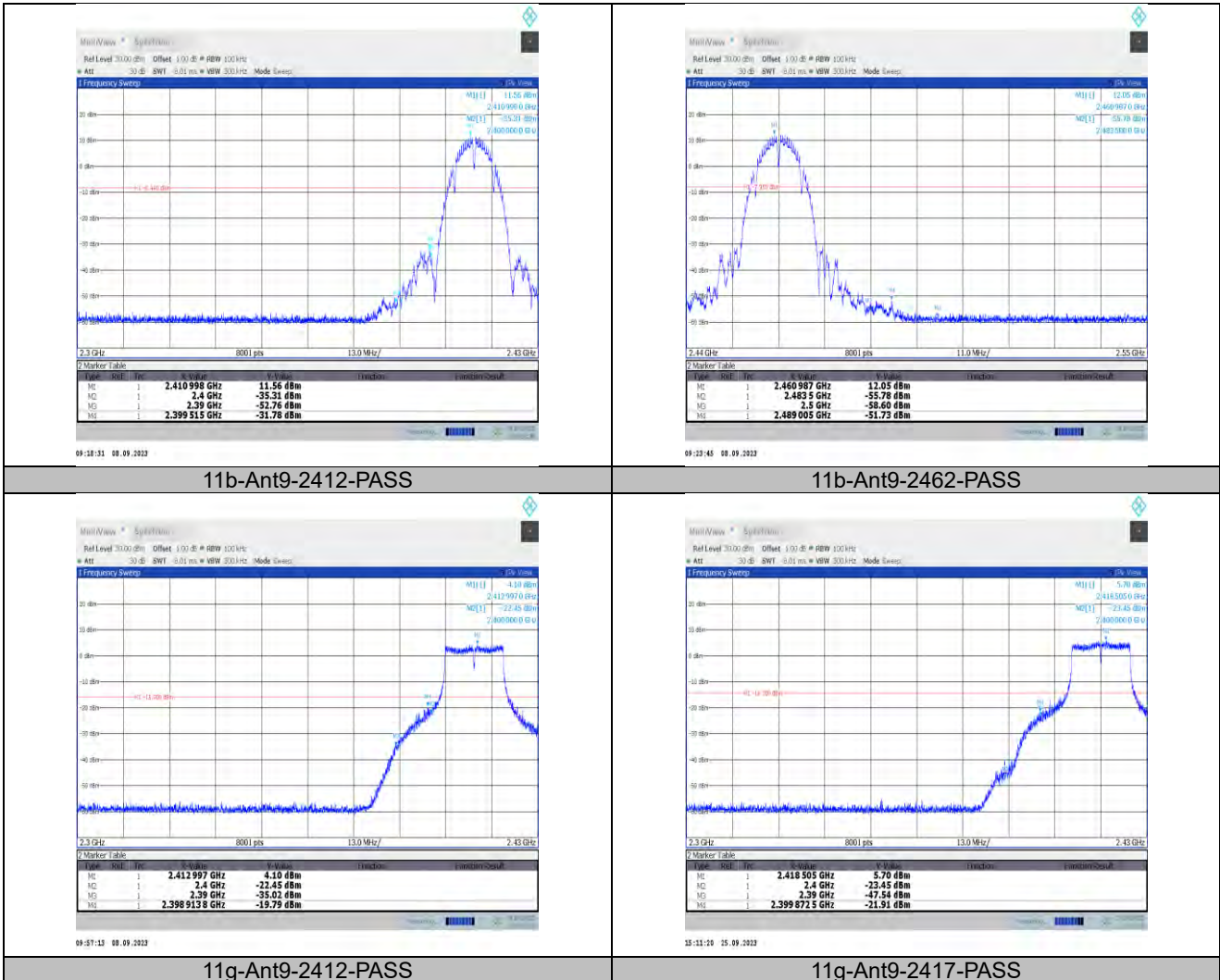
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### Band edge measurements Test Graphs

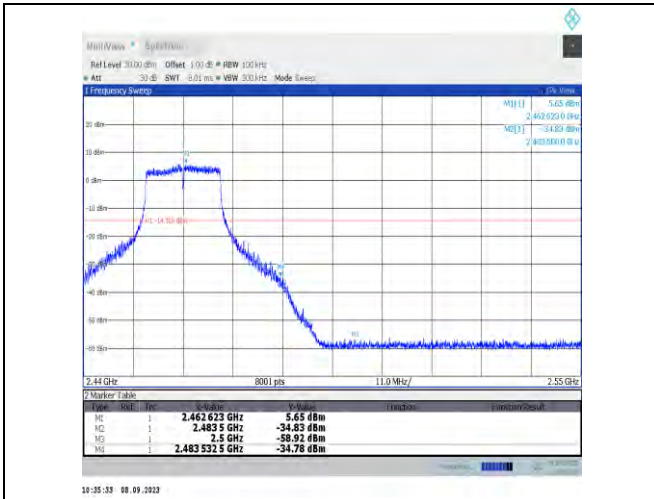


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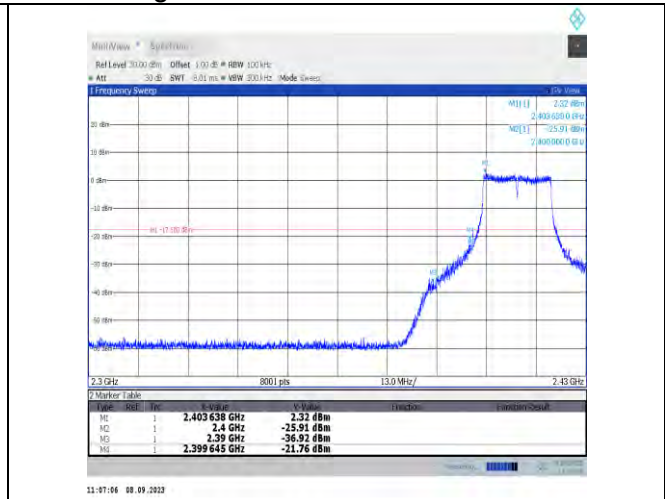
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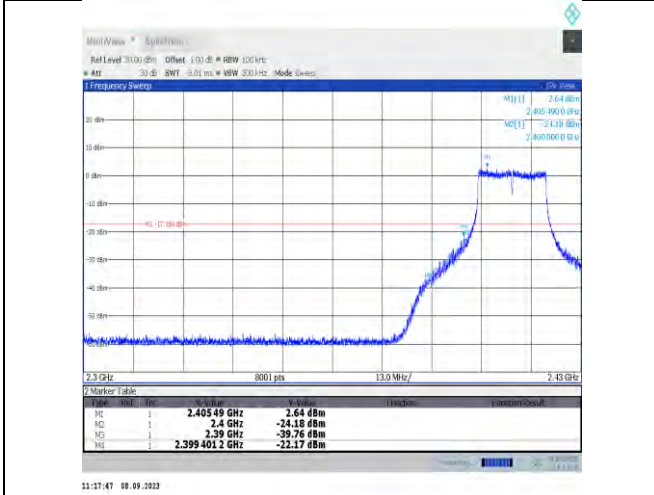




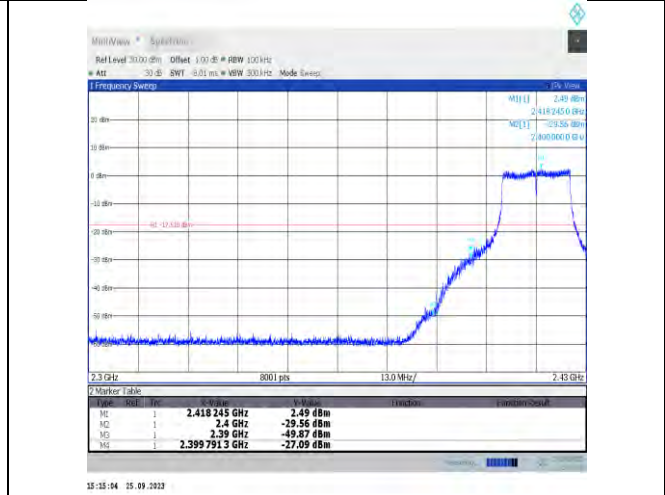
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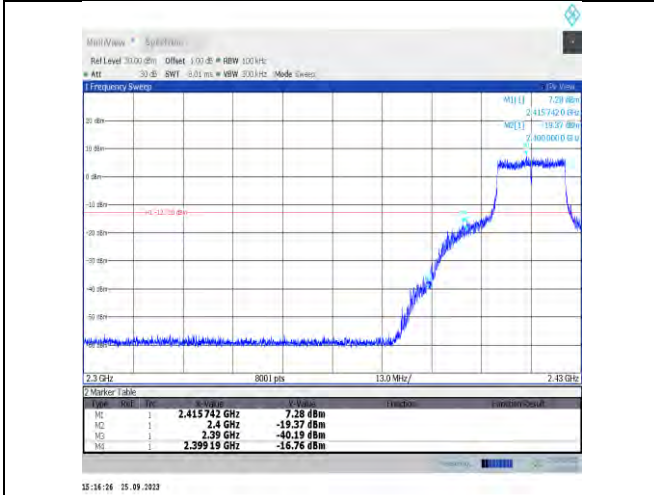
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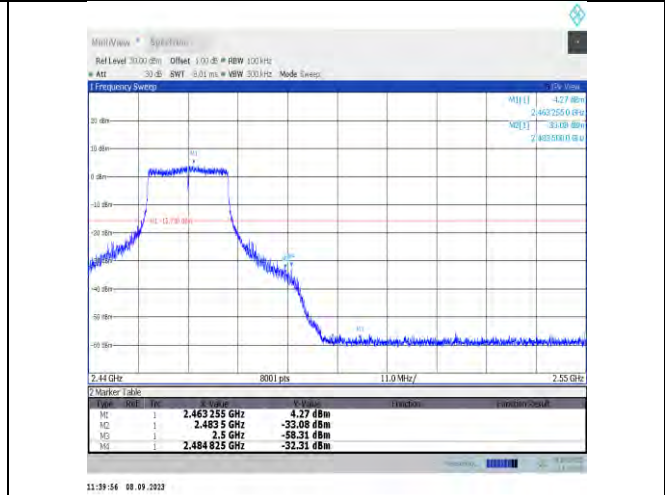
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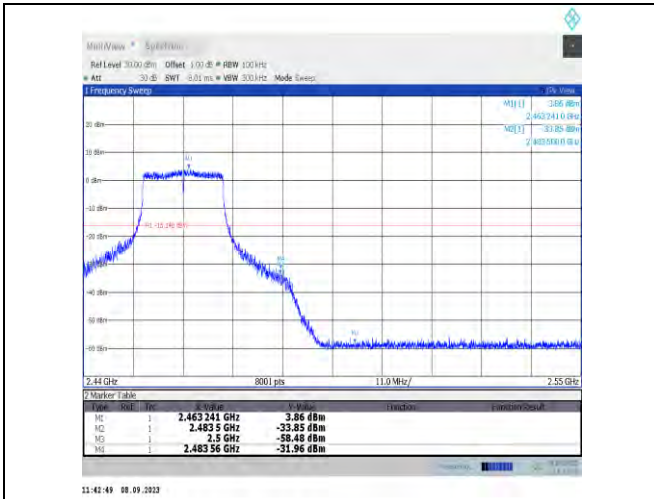
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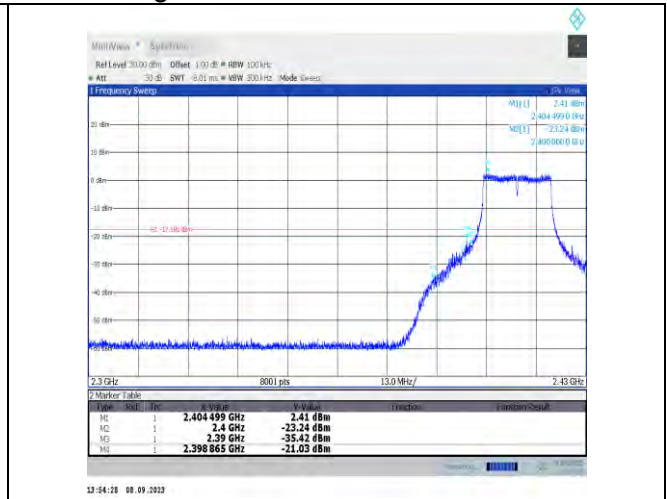
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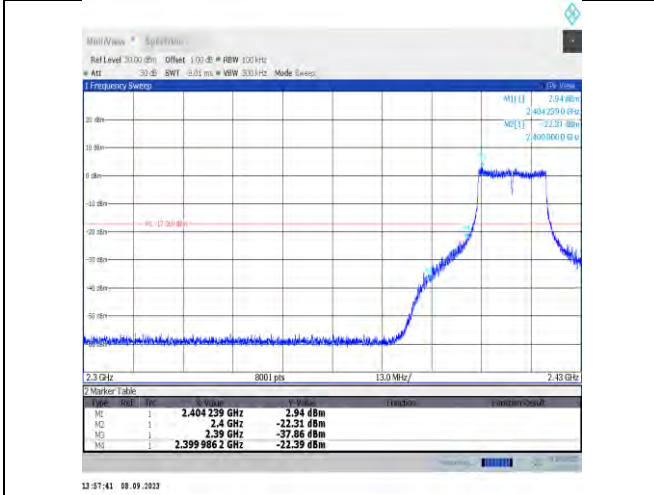
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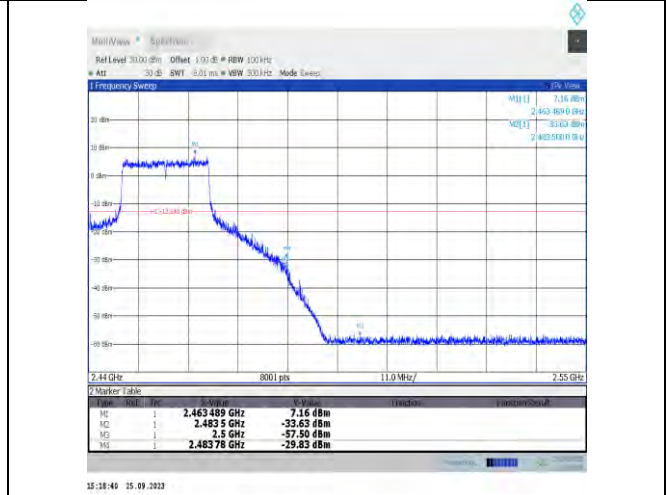
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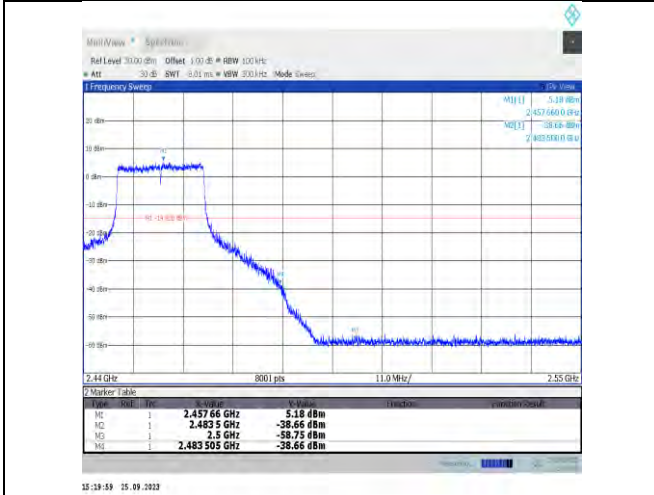
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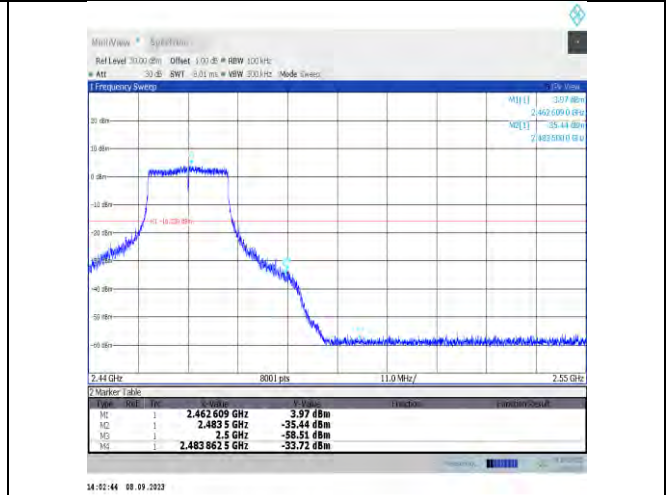
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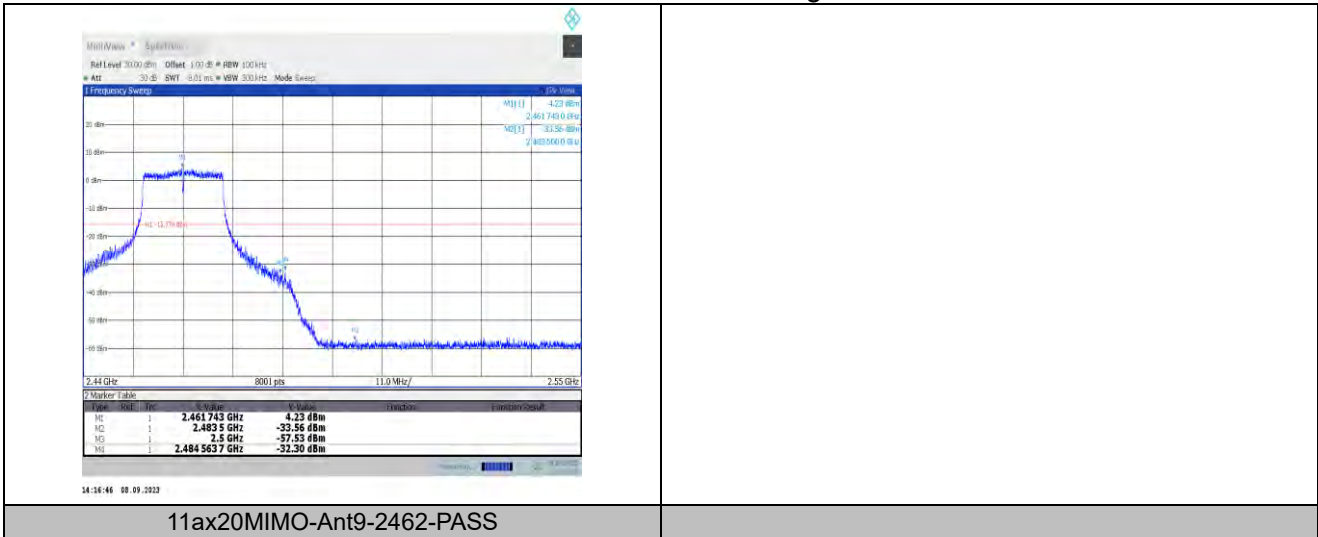
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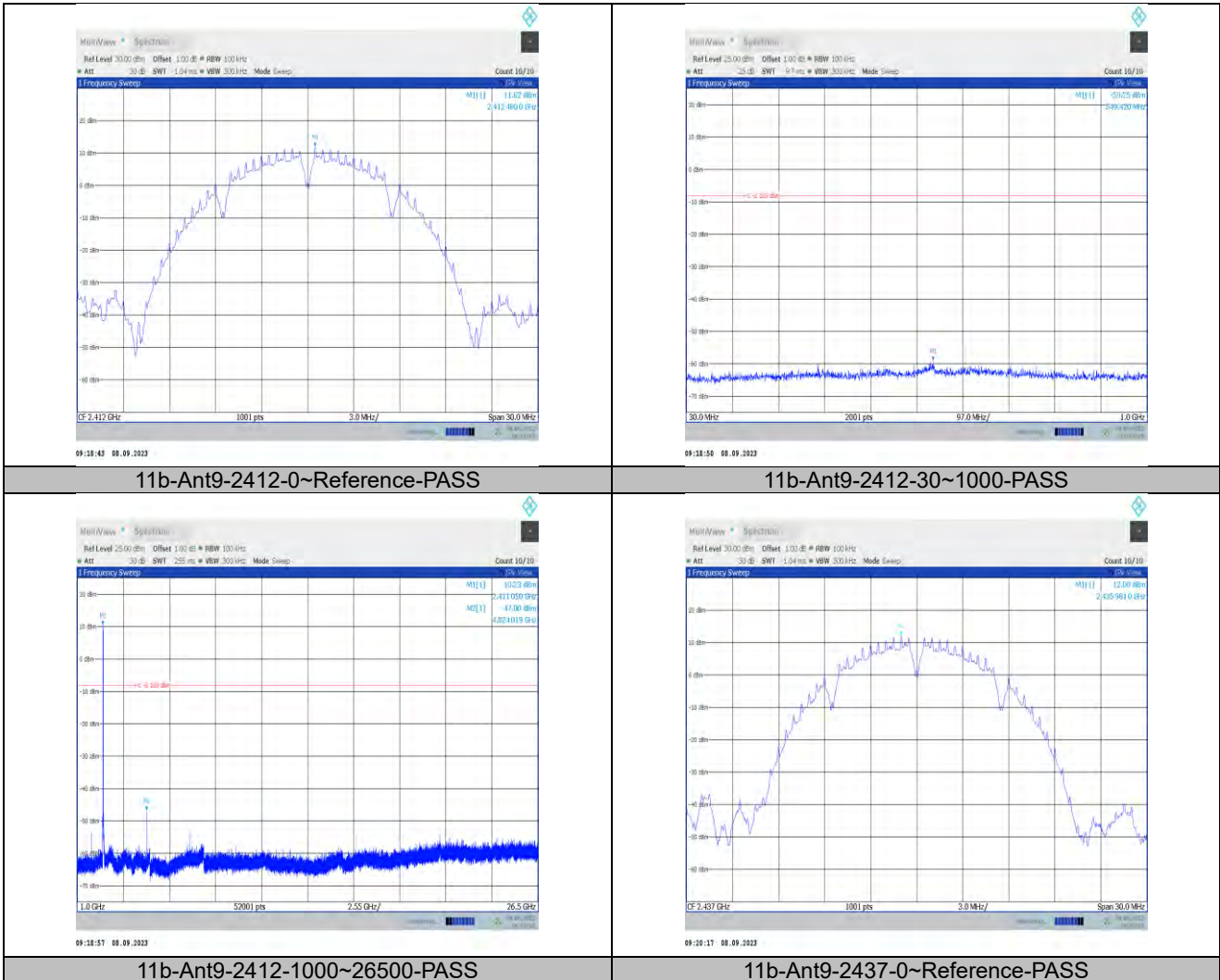


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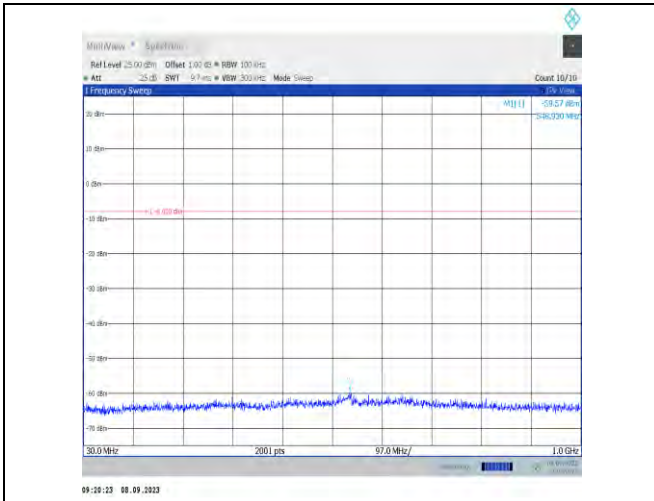
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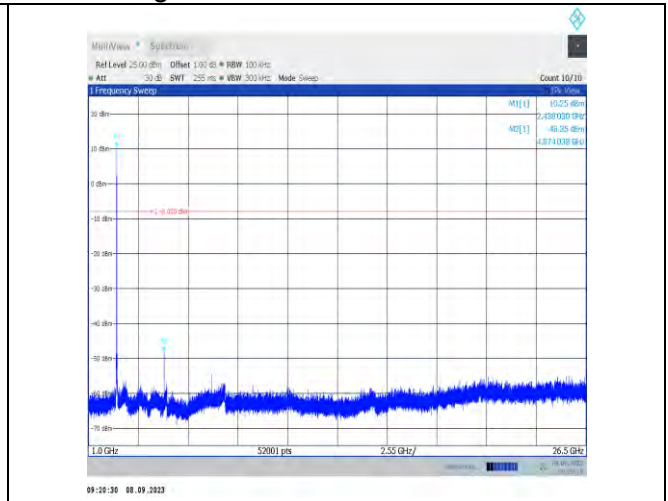
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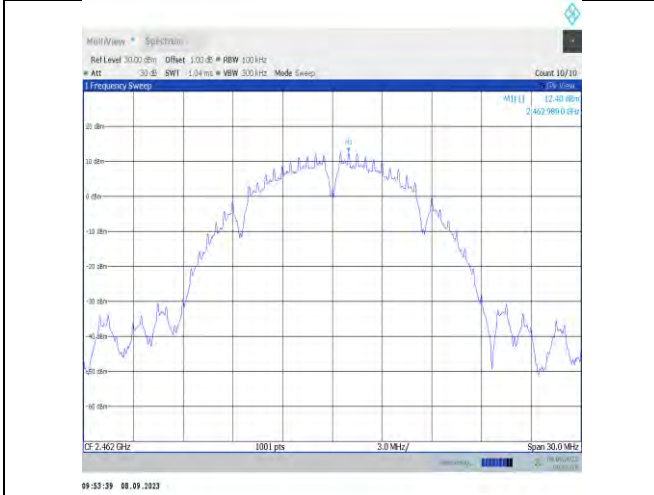
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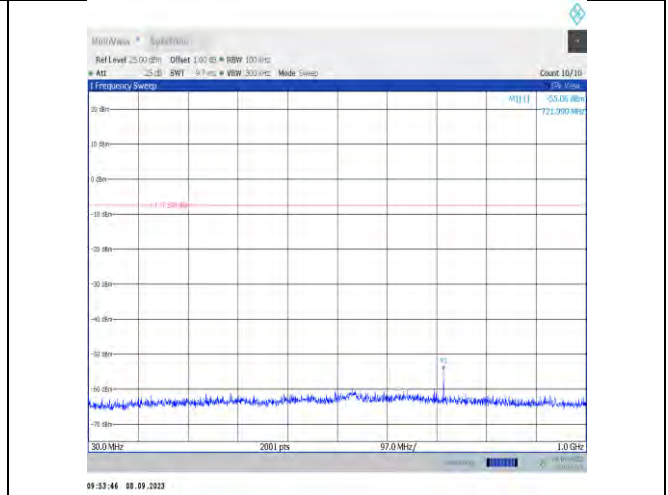
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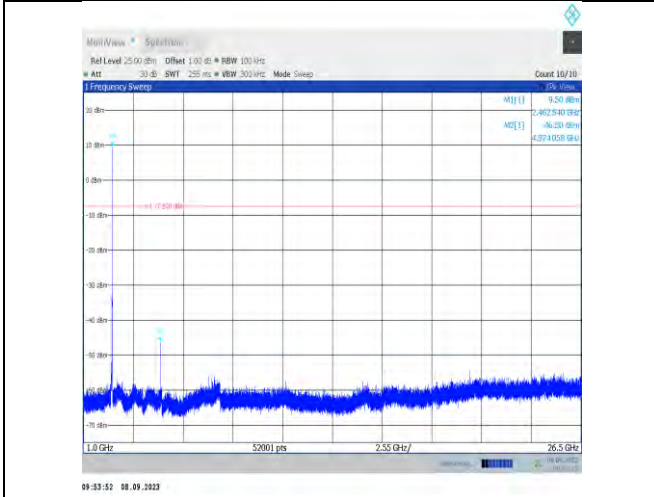
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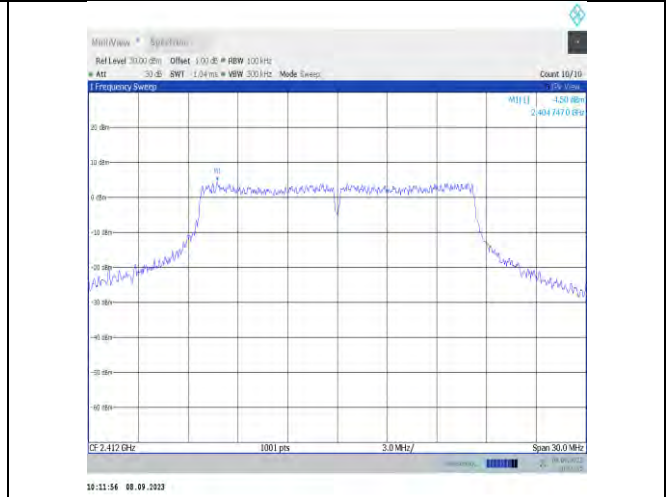
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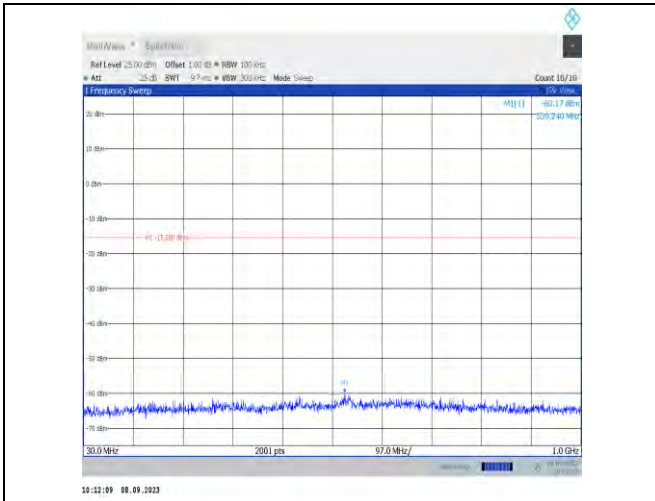


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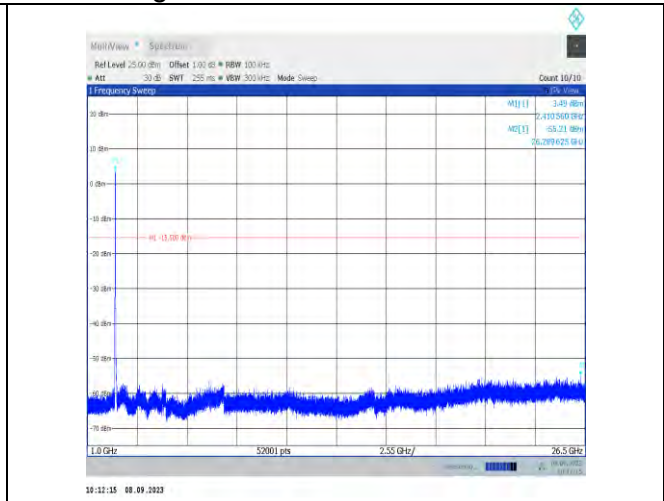


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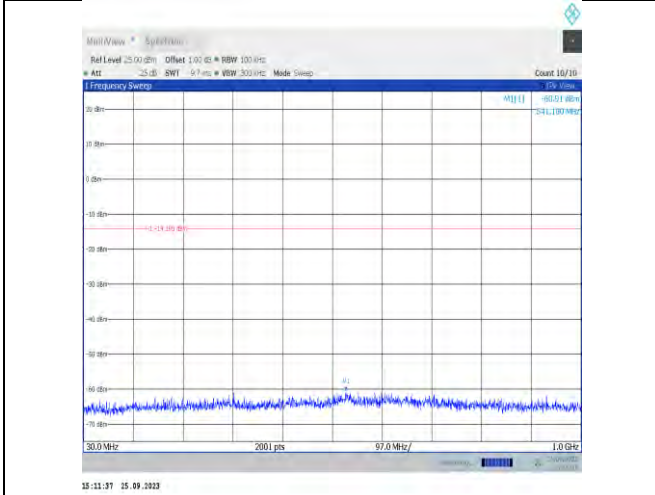
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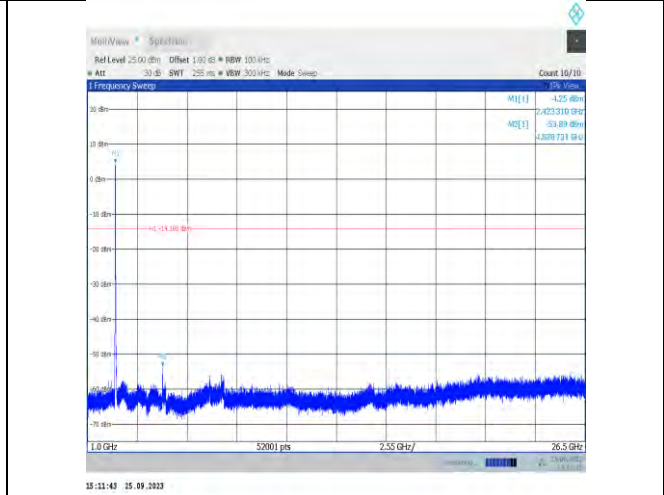
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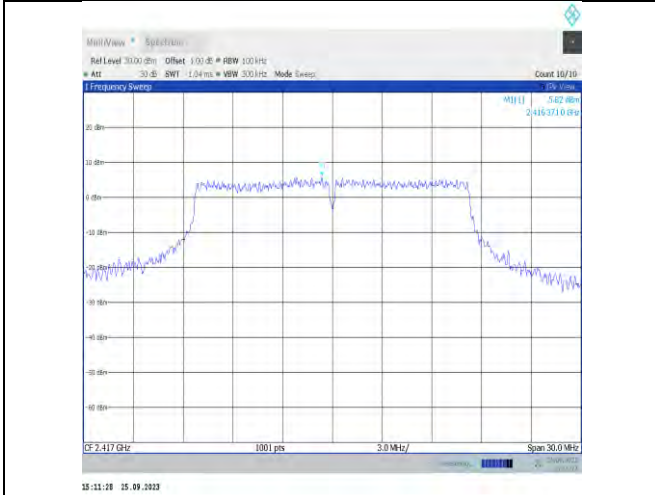
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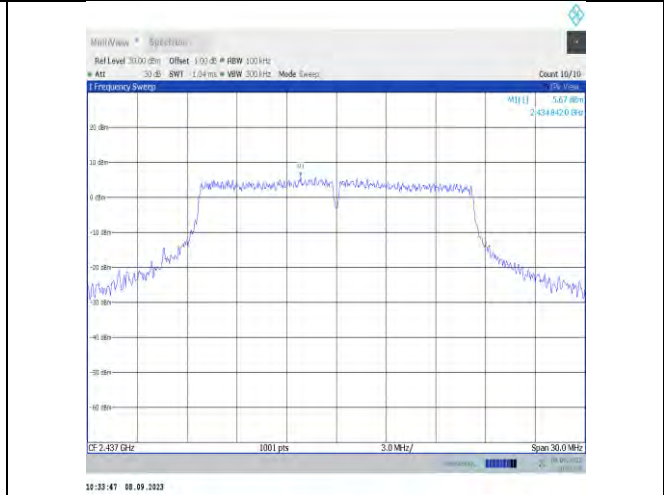
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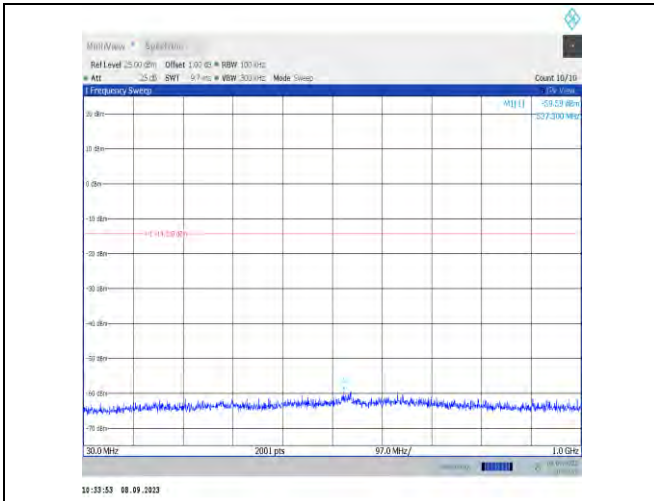


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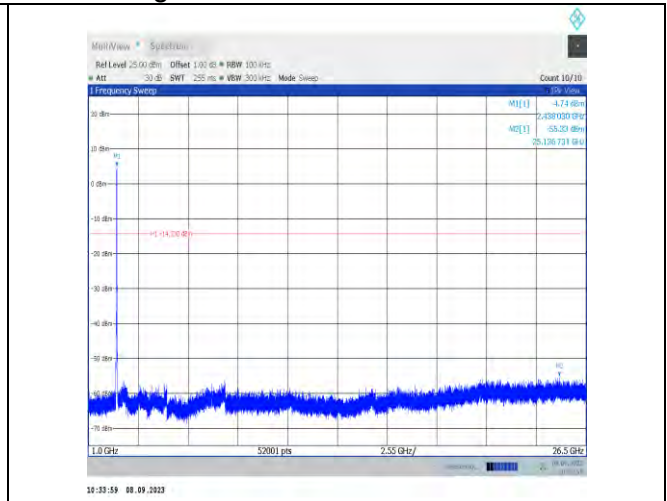


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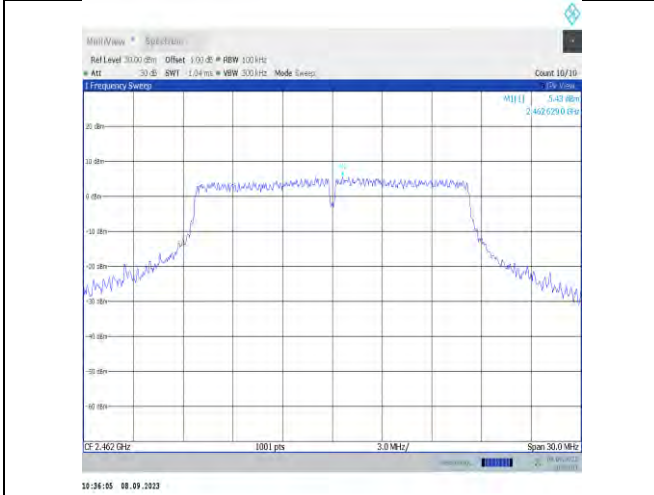
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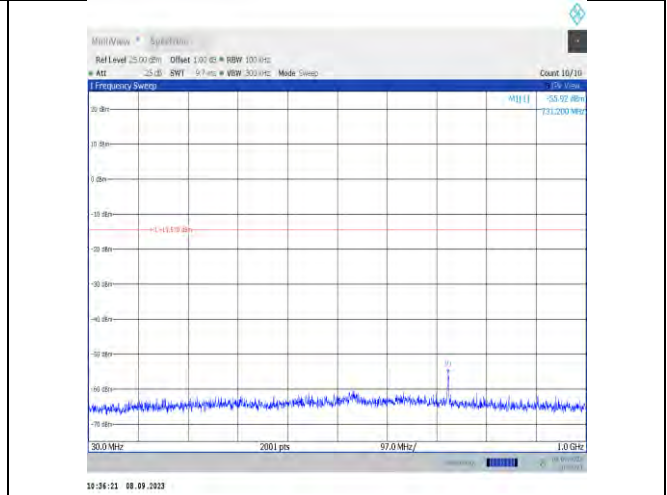
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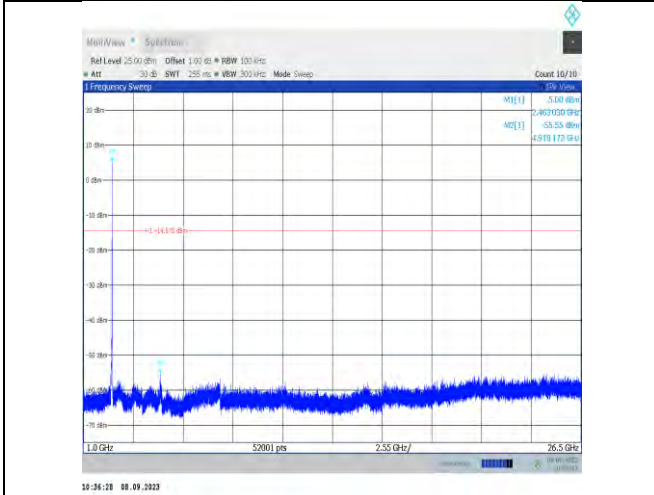
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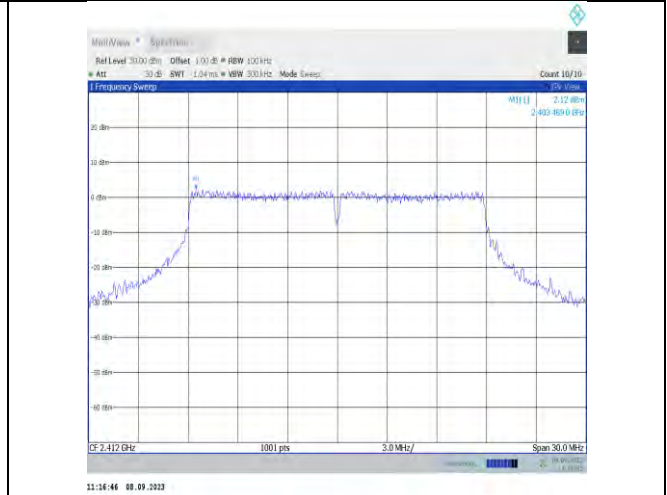
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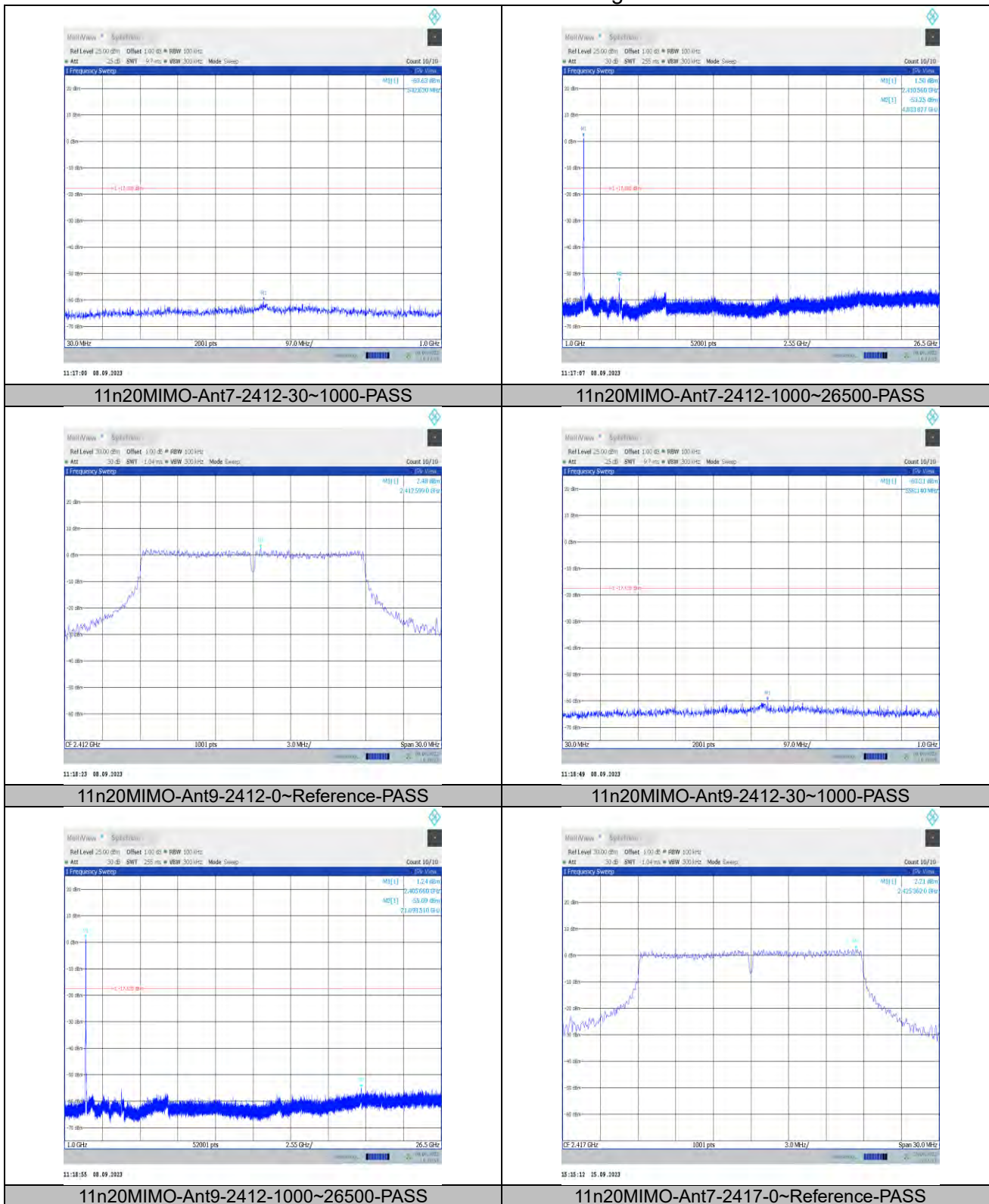


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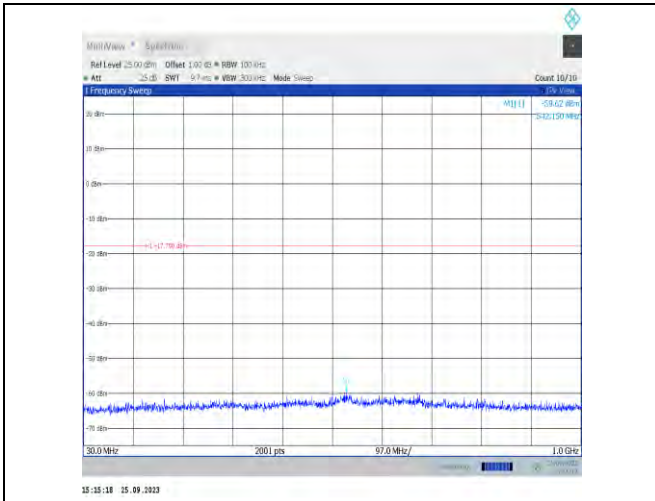


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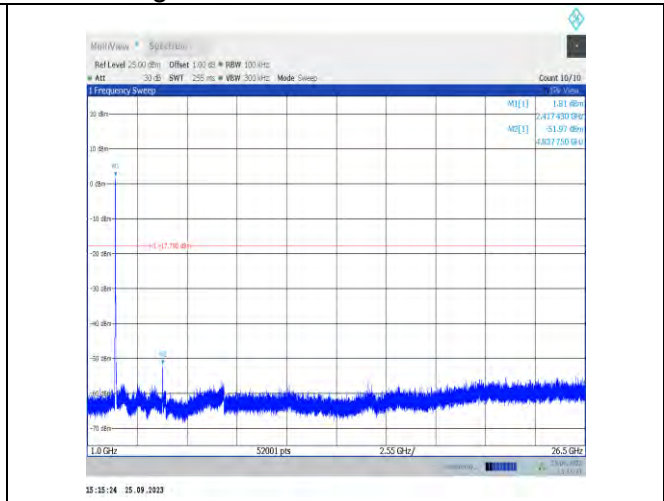
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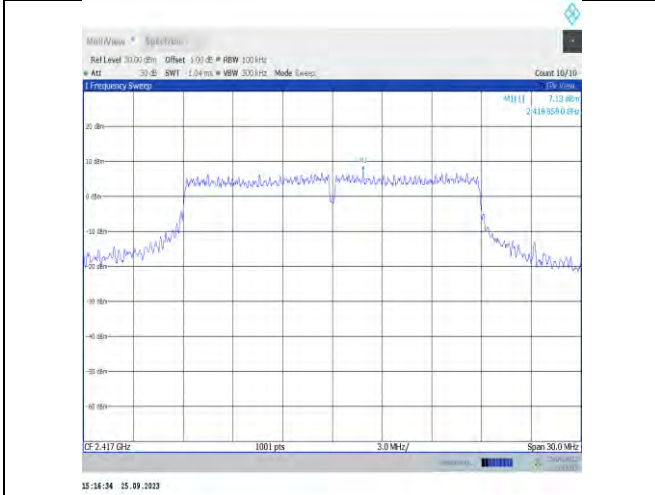




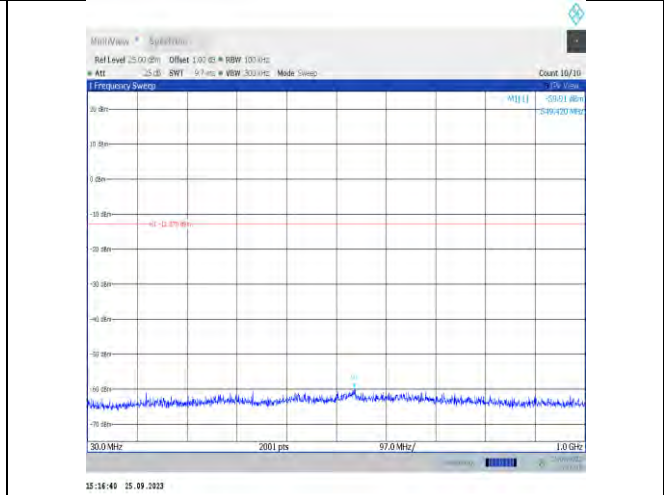
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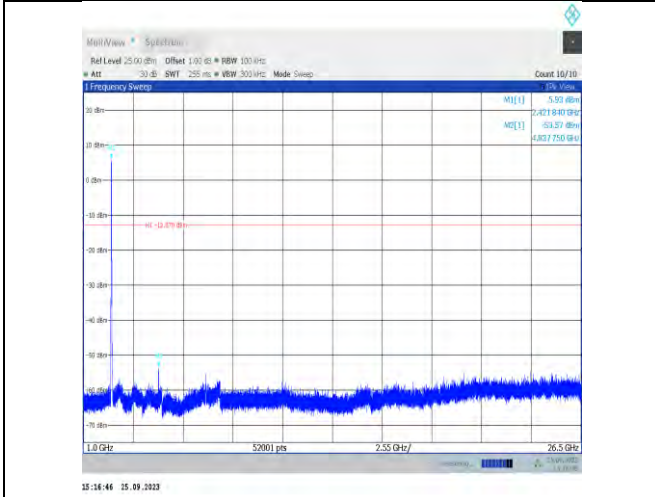
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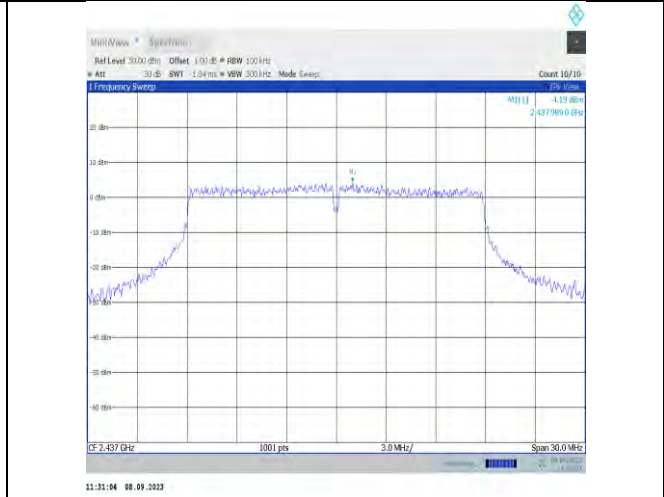
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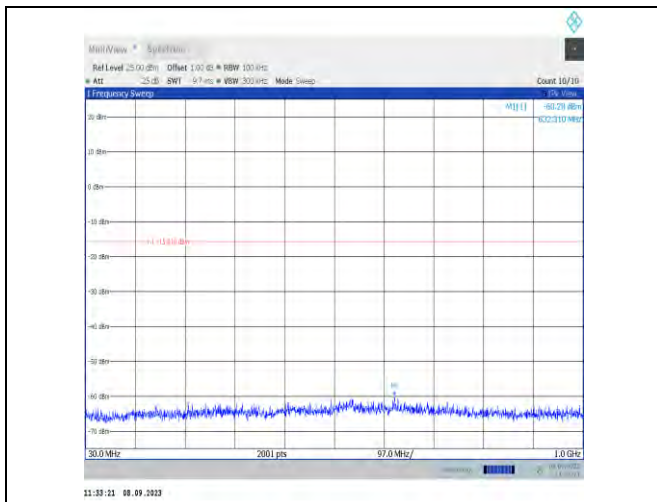


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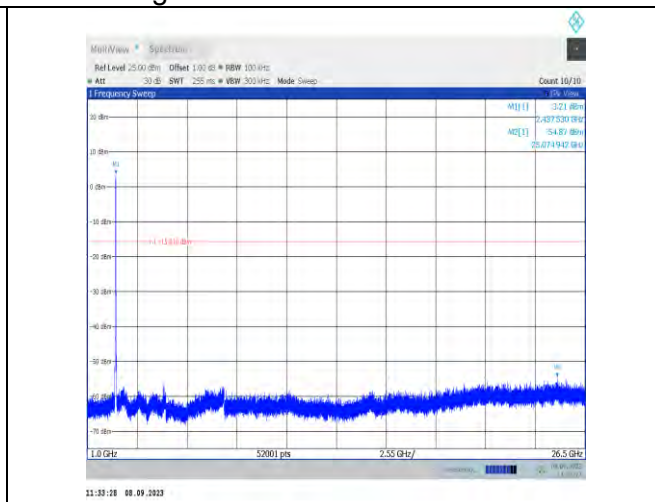


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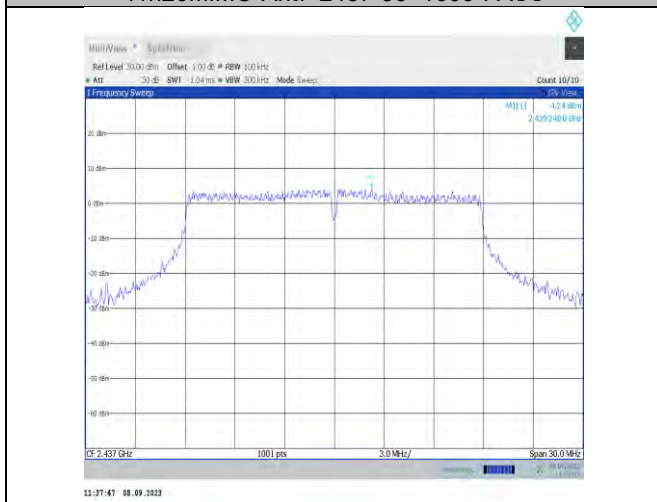
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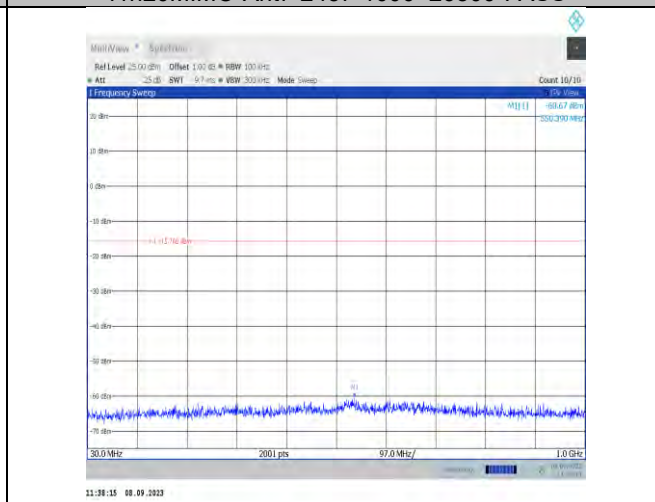
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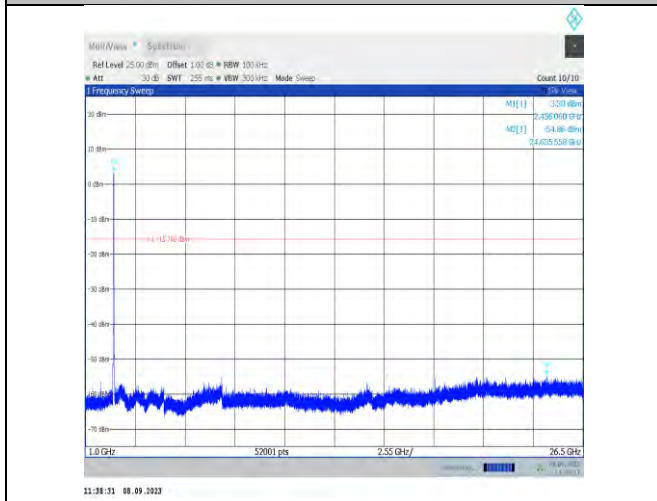
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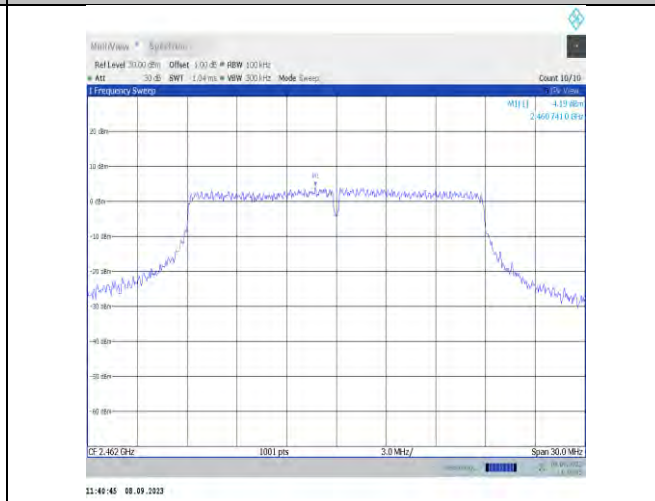
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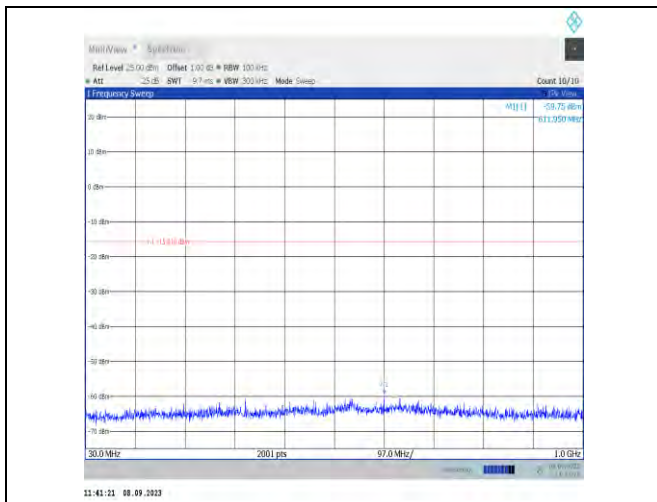
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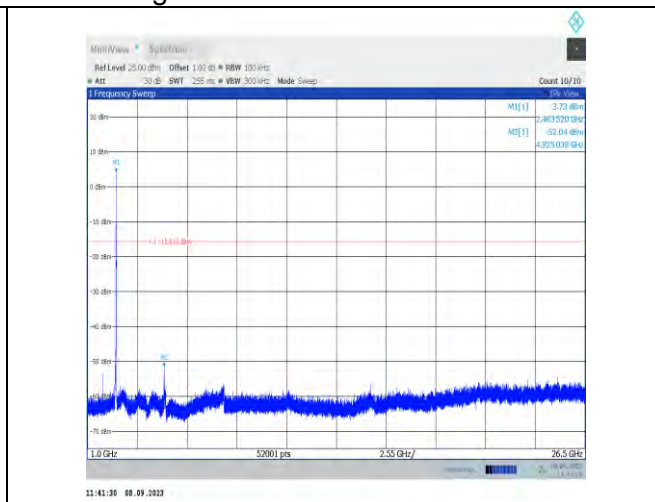
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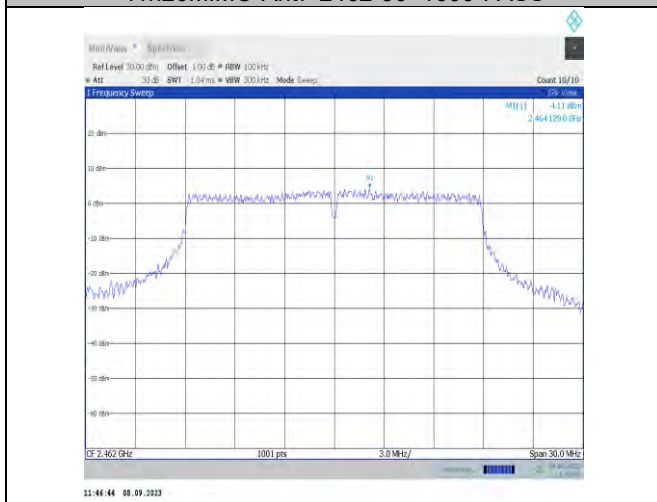
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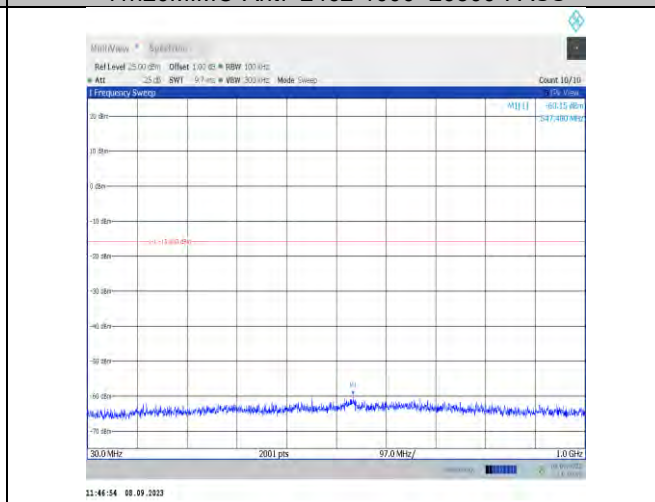
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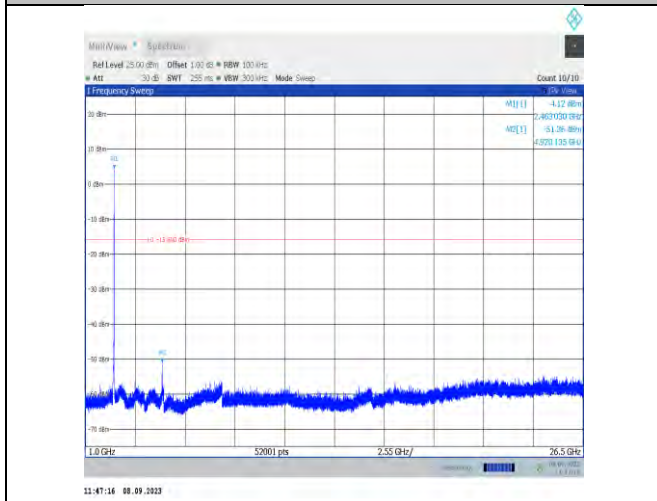
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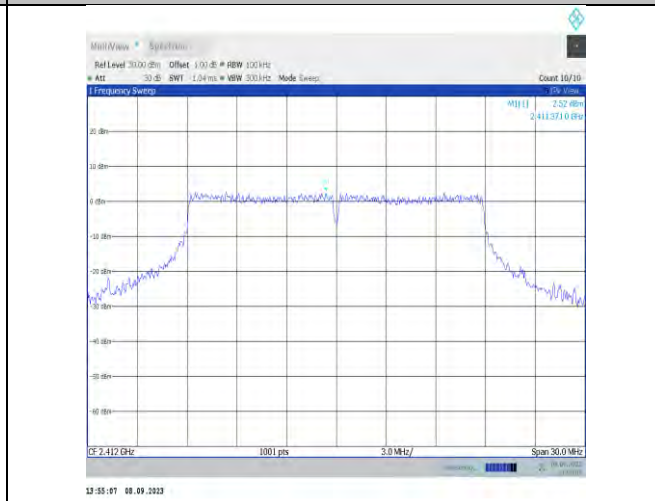
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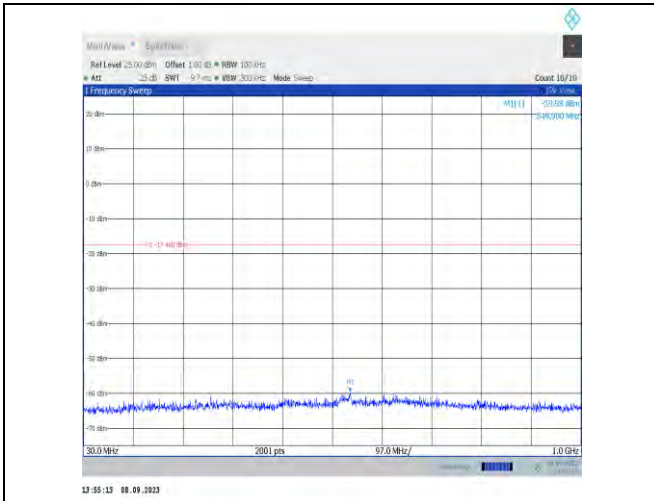
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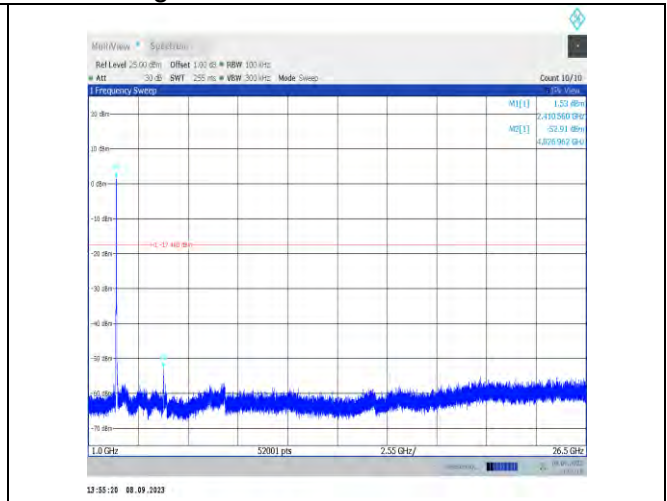
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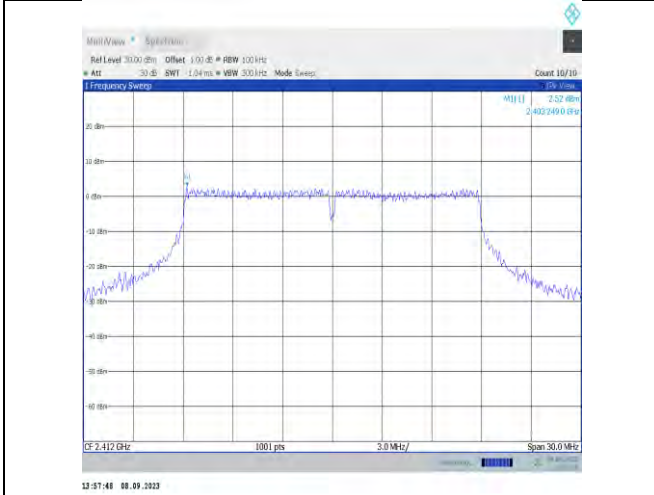
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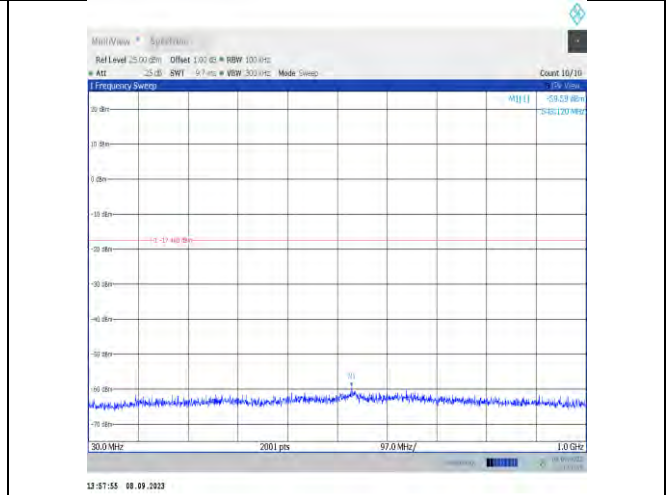
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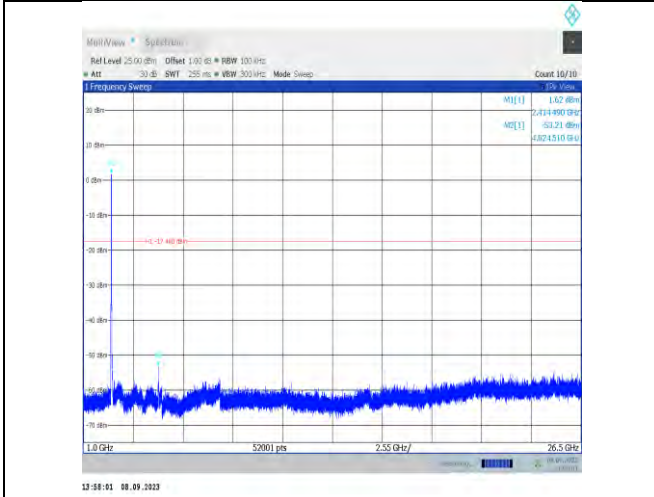
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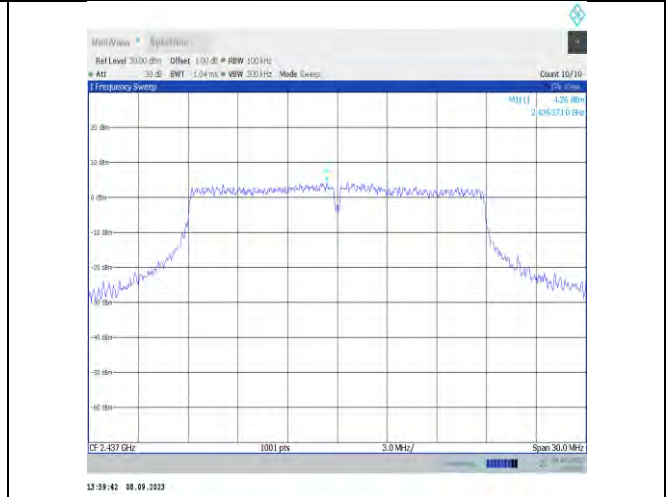
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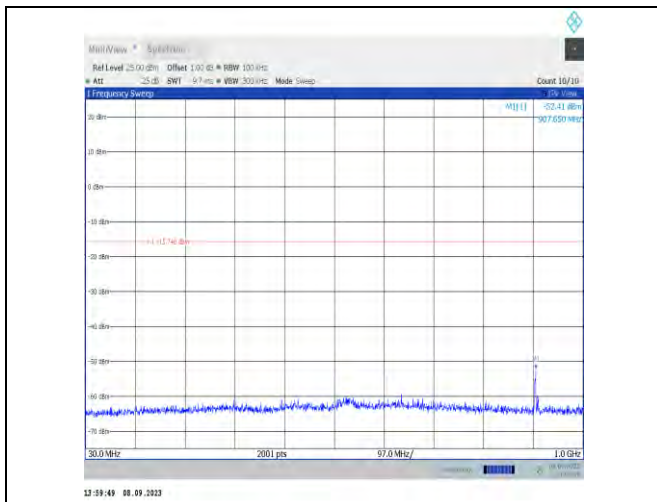


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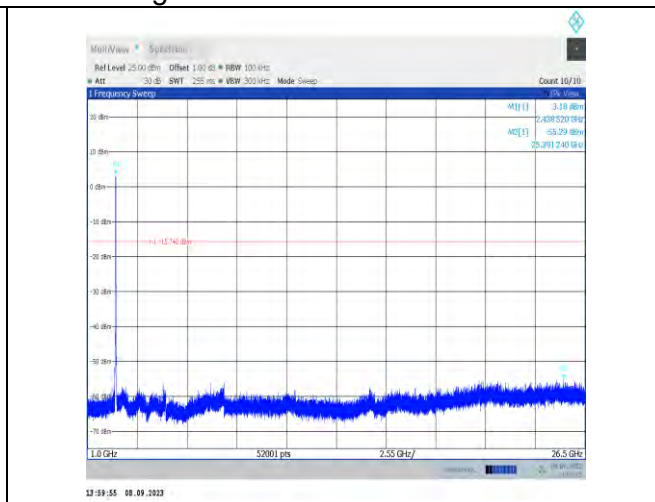


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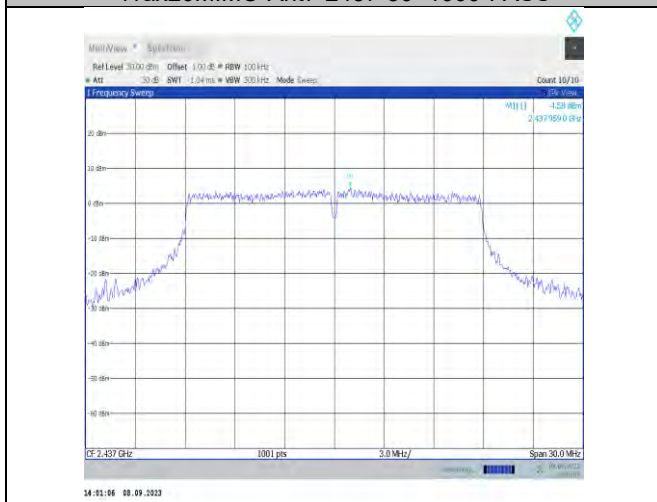
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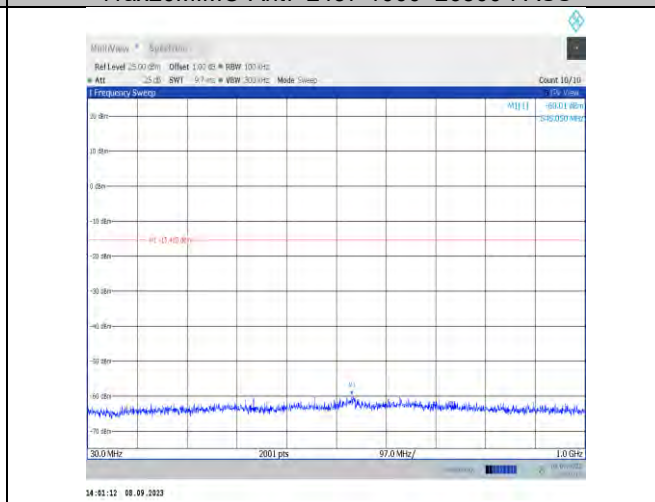
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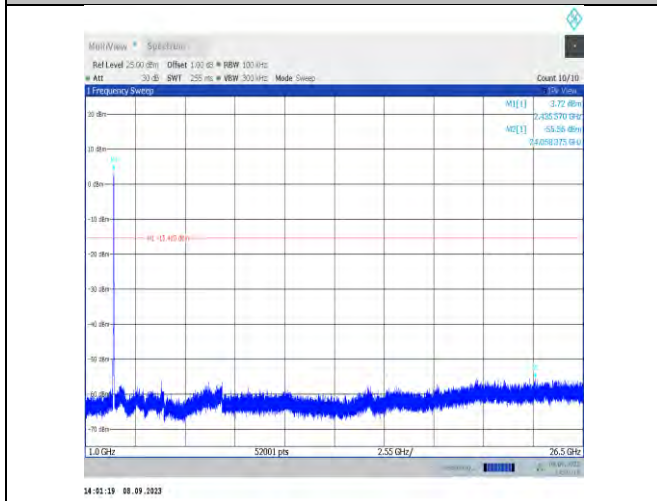
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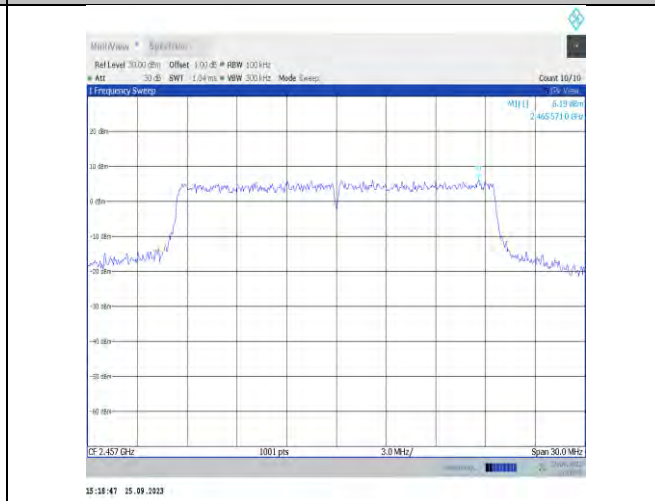
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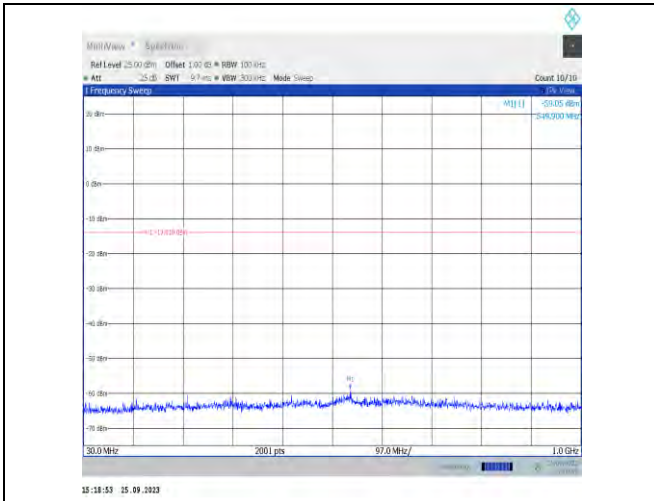
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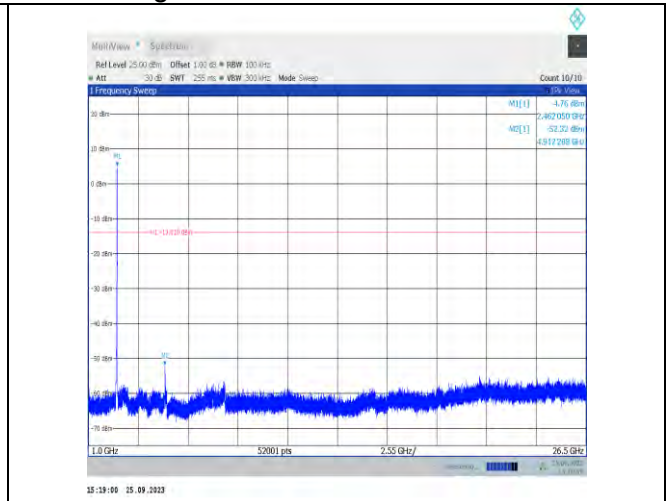
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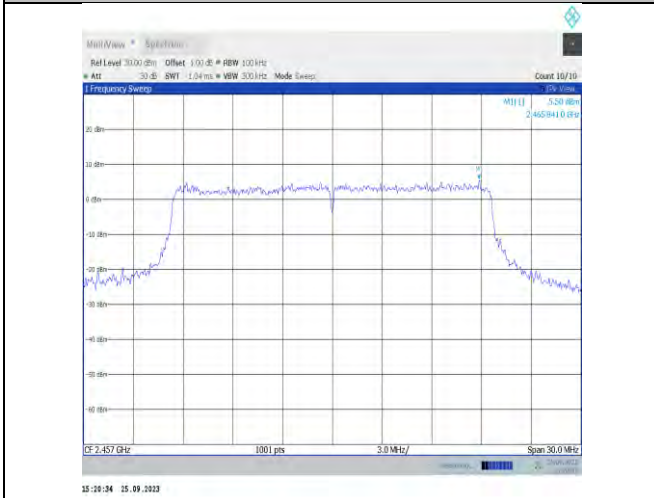
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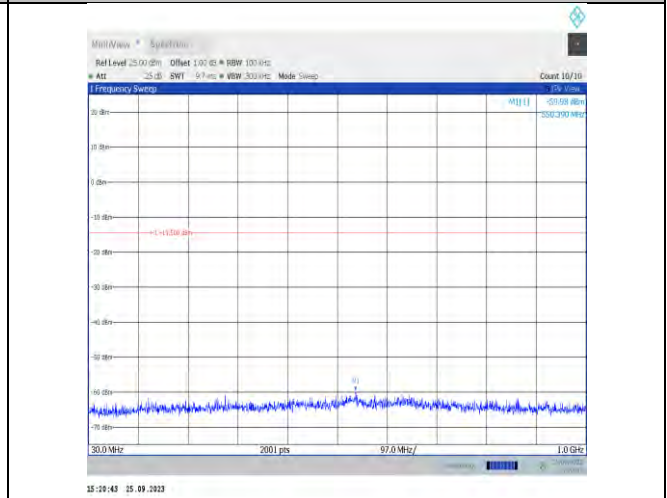
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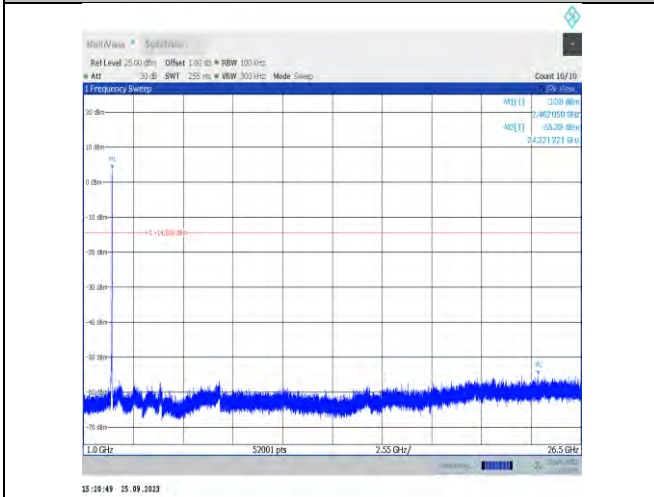
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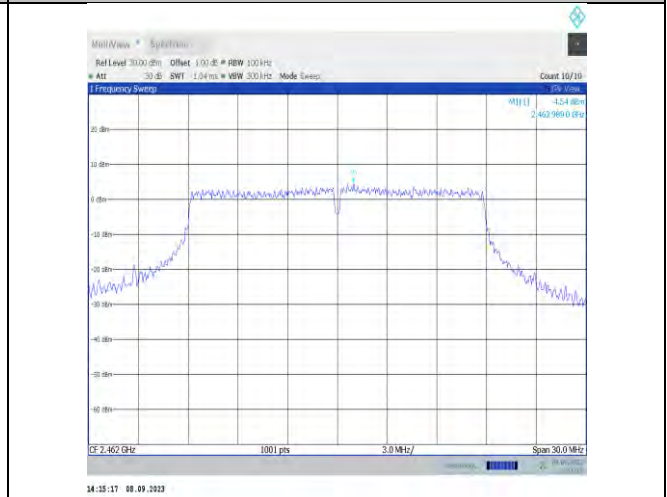
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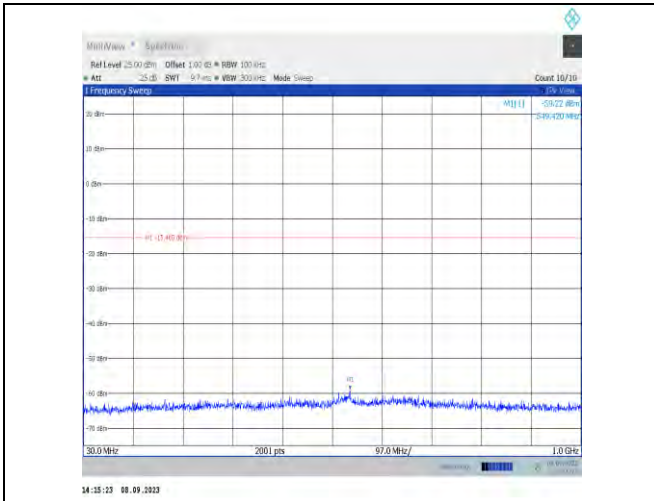


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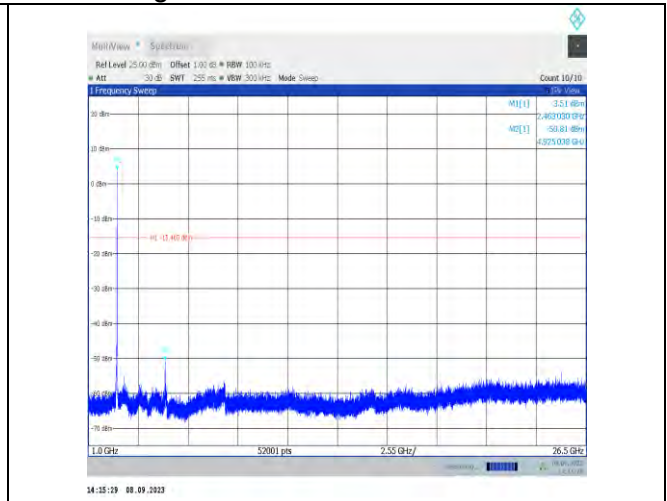


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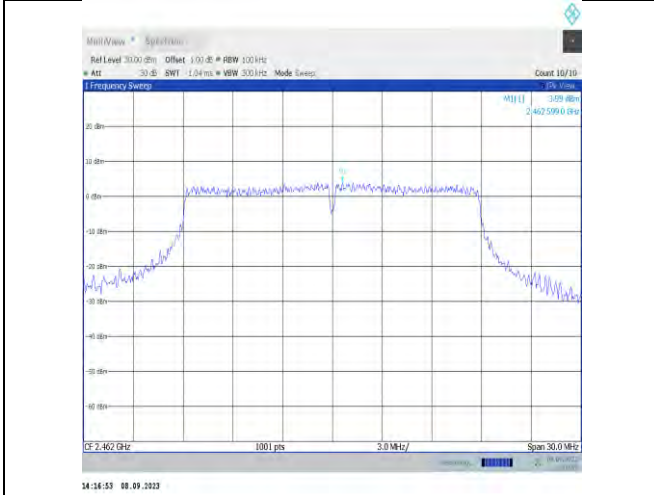
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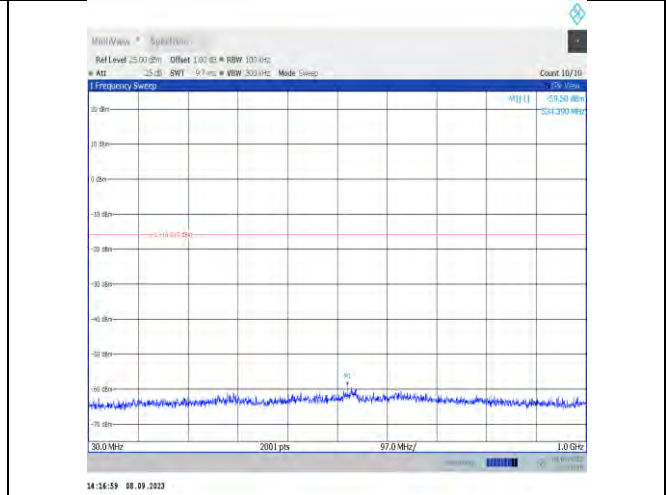
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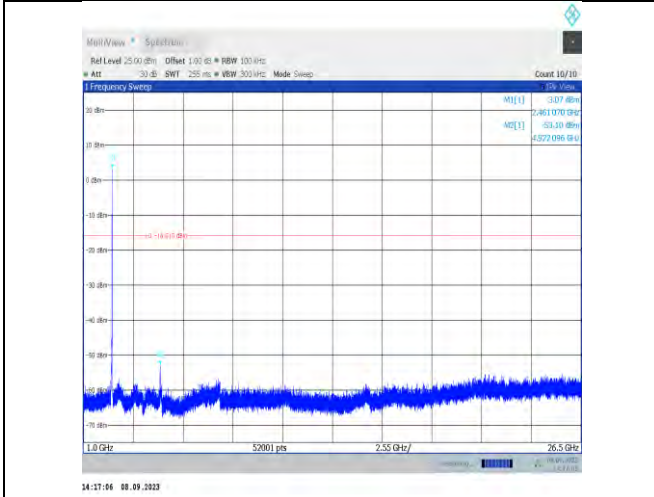
11ax20MIMO-Ant7-2462-1000~26500-PASS



11ax20MIMO-Ant9-2462-0~Reference-PASS



11ax20MIMO-Ant9-2462-30~1000-PASS



11ax20MIMO-Ant9-2462-1000~26500-PASS



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**Duty Cycle Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle* [%]	Factor
11b	Ant7	2412	20.00	20.00	100.00	0.00
11b	Ant9	2412	20.00	20.00	100.00	0.00
11g	Ant7	2412	20.00	20.00	100.00	0.00
11g	Ant9	2412	20.00	20.00	100.00	0.00
11n20MIMO	Ant7	2412	20.00	20.00	100.00	0.00
11n20MIMO	Ant9	2412	20.00	20.00	100.00	0.00
11ax20MIMO	Ant7	2412	20.00	20.00	100.00	0.00
11ax20MIMO	Ant9	2412	20.00	20.00	100.00	0.00

**Test Result for AX Part RU**

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle* [%]
11ax20MIMO	Ant7	2412	26Tone	RU0	5.13	5.18	99.03
11ax20MIMO	Ant7	2412	52Tone	RU37	5.06	5.10	99.22
11ax20MIMO	Ant7	2412	106Tone	RU53	2.41	2.45	98.37
11ax20MIMO	Ant9	2412	26Tone	RU0	5.14	5.18	99.23
11ax20MIMO	Ant9	2412	52Tone	RU37	5.06	5.10	99.22
11ax20MIMO	Ant9	2412	106Tone	RU53	2.41	2.45	98.37

Note:

Radiated Emission Average VBW Setting:

\*Duty cycle > 98% VBW setting=10Hz

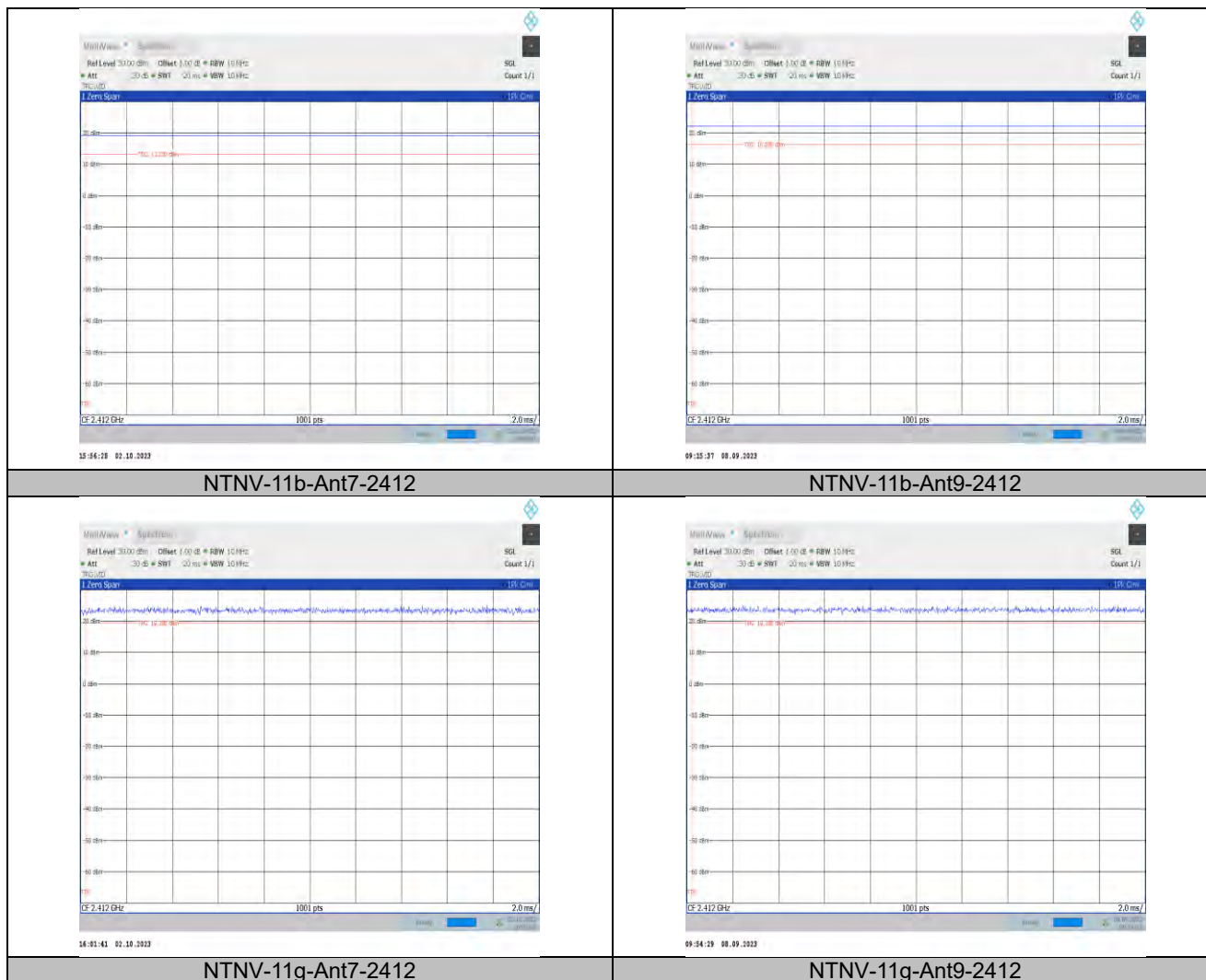


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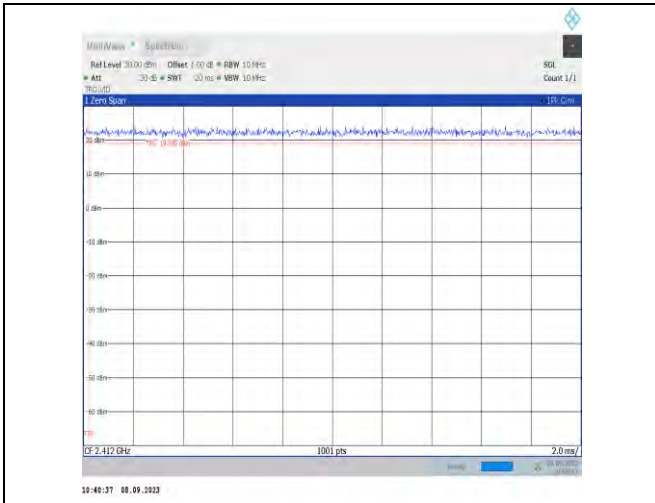
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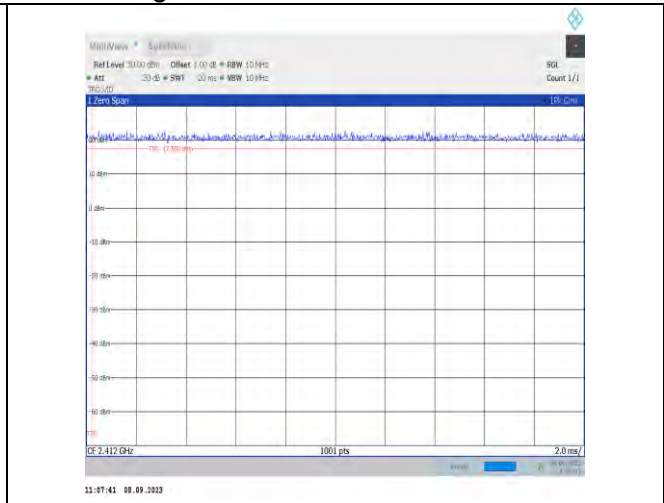
Test Graphs



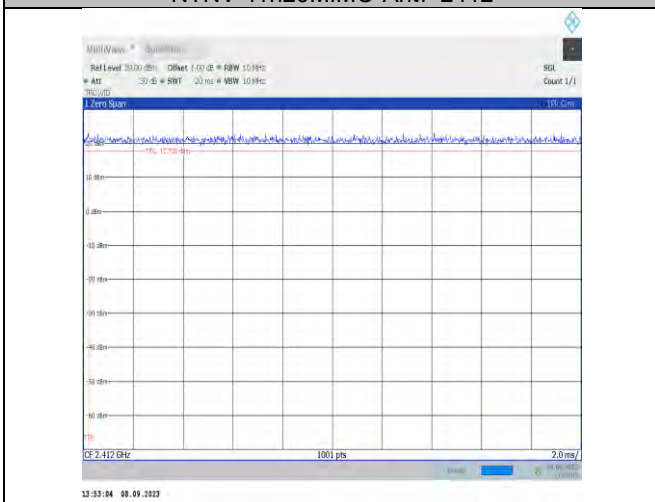
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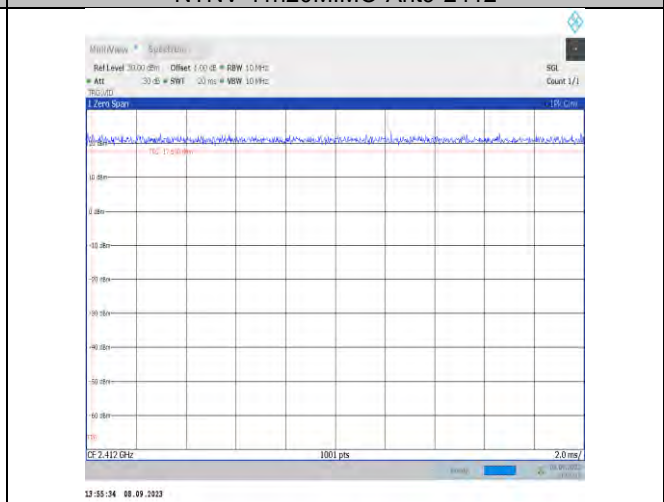
NTVN-11n20MIMO-Ant7-2412



NTVN-11n20MIMO-Ant9-2412



NTVN-11ax20MIMO-Ant7-2412



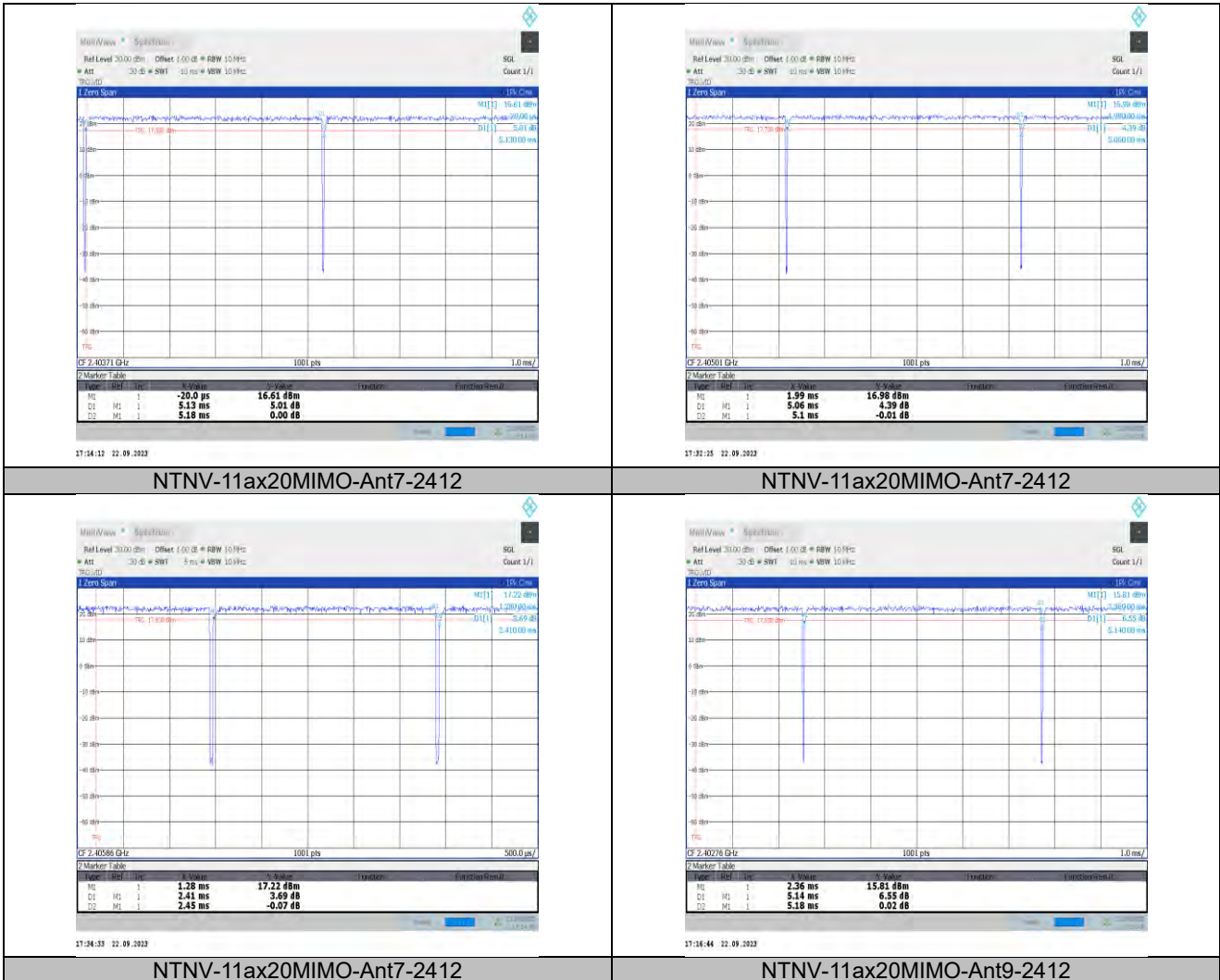
NTVN-11ax20MIMO-Ant9-2412



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Test Graphs for AX Part RU



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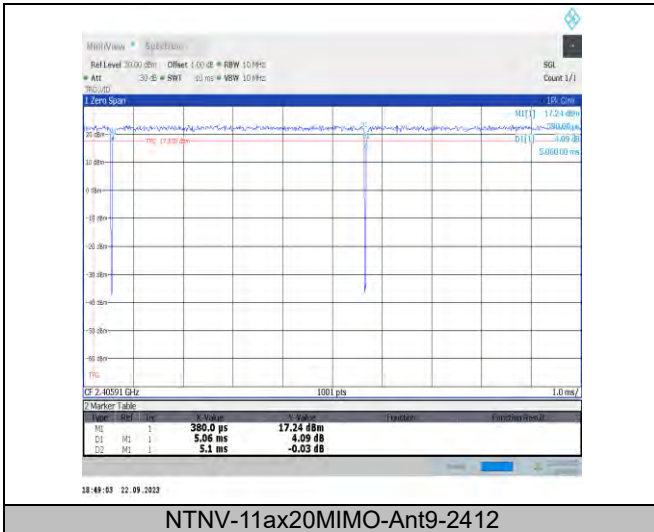
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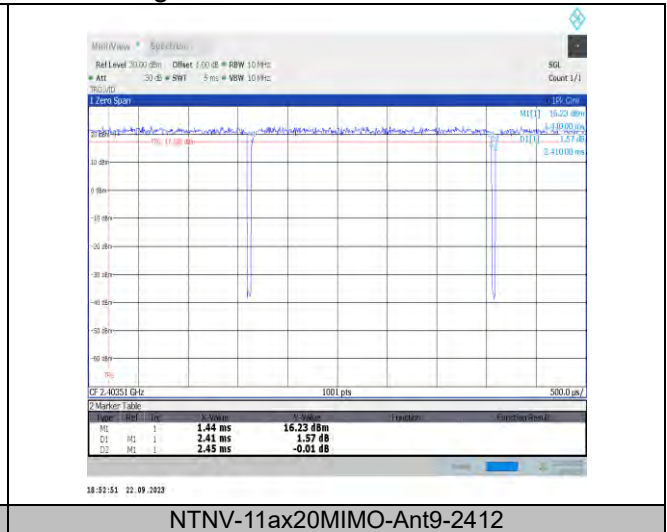
Report No.: SEWM2308000314RG05

Rev.: 01

Page: 76 of 176



NTNV-11ax20MIMO-Ant9-2412



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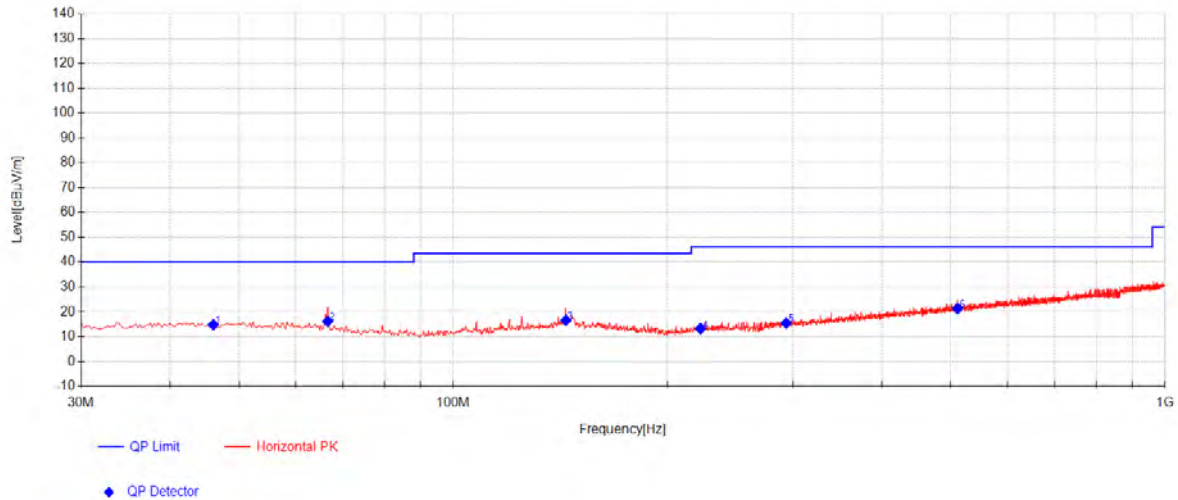
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### Radiated Spurious Emissions

### Radiated emission below 1GHz

### Worst case Mode: 802.11g CDD\_Channel 11



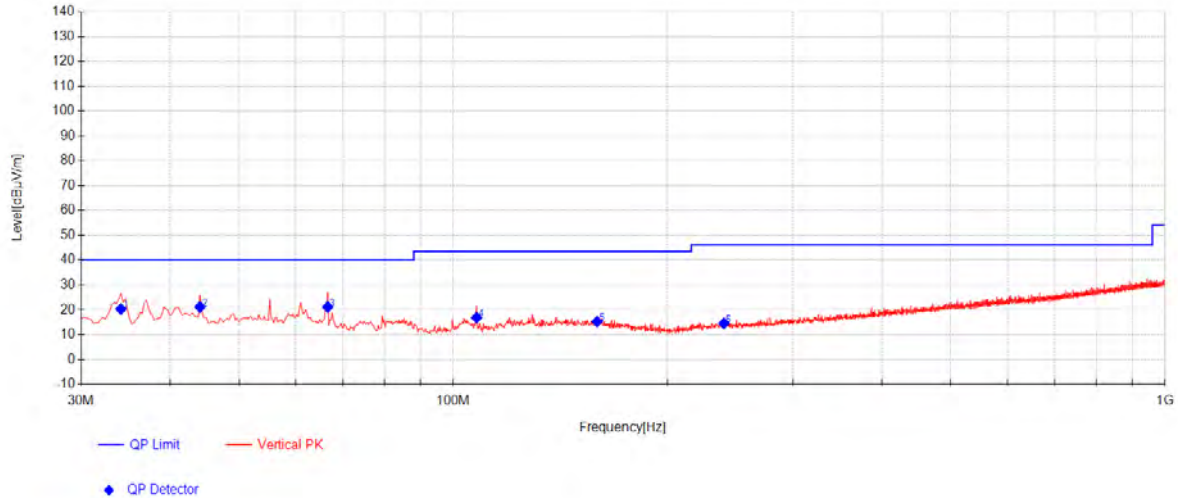
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	46.005	29.35	-33.99	19.40	14.76	40.00	25.24	Horizontal
2	66.6175	32.25	-33.78	17.68	16.14	40.00	23.86	Horizontal
3	143.975	31.26	-33.22	18.54	16.58	43.50	26.92	Horizontal
4	222.545	29.32	-32.56	16.43	13.18	46.00	32.82	Horizontal
5	293.5975	29.35	-32.22	18.31	15.44	46.00	30.56	Horizontal
6	511.12	28.69	-30.97	23.60	21.32	46.00	24.68	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	34.1225	35.93	-34.00	18.39	20.32	40.00	19.68	Vertical
2	44.065	35.63	-33.99	19.50	21.14	40.00	18.86	Vertical
3	66.6175	37.26	-33.78	17.68	21.15	40.00	18.85	Vertical
4	107.8425	34.03	-33.41	16.21	16.83	43.50	26.67	Vertical
5	159.2525	30.04	-33.07	18.31	15.28	43.50	28.22	Vertical
6	240.005	29.68	-32.49	17.30	14.48	46.00	31.52	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.

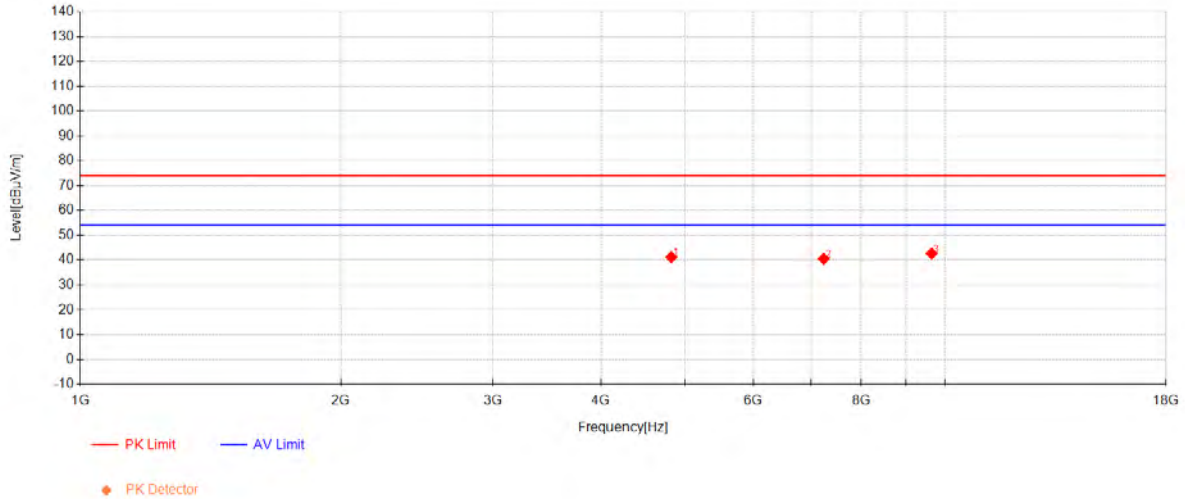


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### Transmitter emission Above 1GHz

#### 802.11b CDD\_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	49.80	32.81	-41.43	41.18	74.00	32.82	Horizontal
2	7236	42.04	36.28	-37.81	40.52	74.00	33.48	Horizontal
3	9648	38.11	37.79	-33.26	42.64	74.00	31.36	Horizontal

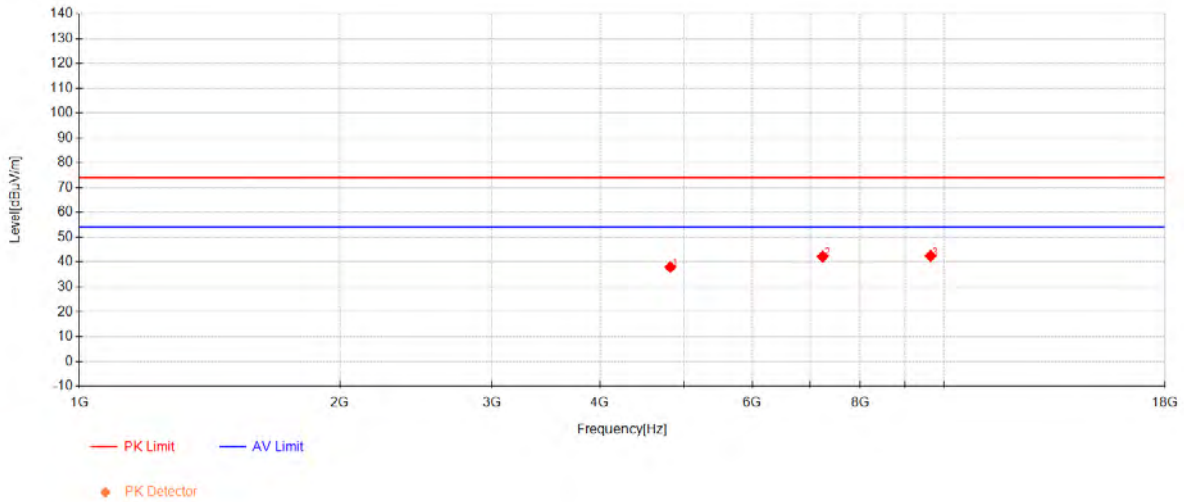


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802.11b CDD\_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	46.62	32.81	-41.43	38.00	74.00	36.00	Vertical
2	7236	43.70	36.28	-37.81	42.18	74.00	31.82	Vertical
3	9648	37.94	37.79	-33.26	42.47	74.00	31.53	Vertical



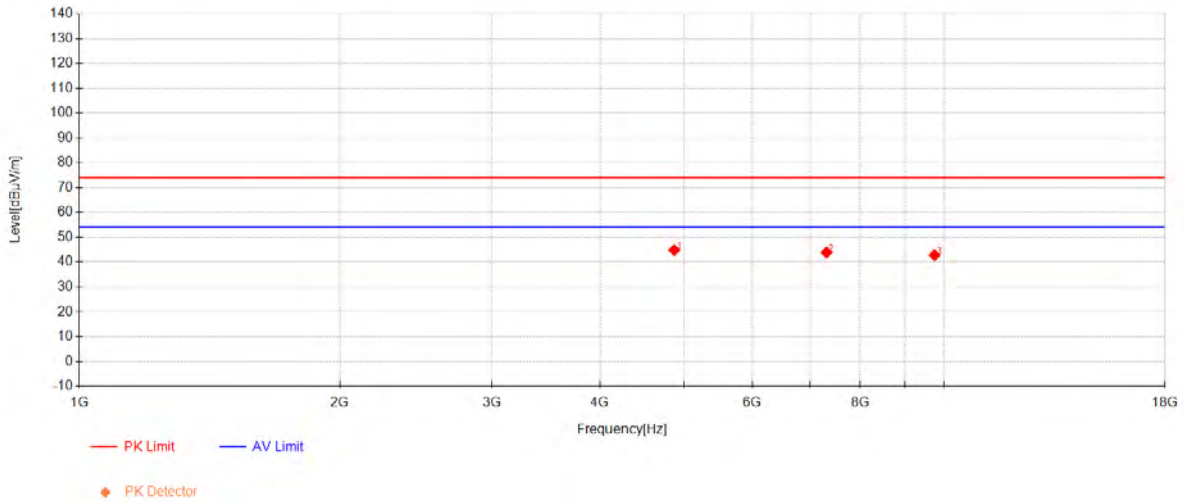
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802.11b CDD\_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	53.16	32.92	-41.28	44.80	74.00	29.20	Horizontal
2	7311	44.89	36.37	-37.42	43.84	74.00	30.16	Horizontal
3	9748	37.98	37.82	-33.06	42.75	74.00	31.25	Horizontal

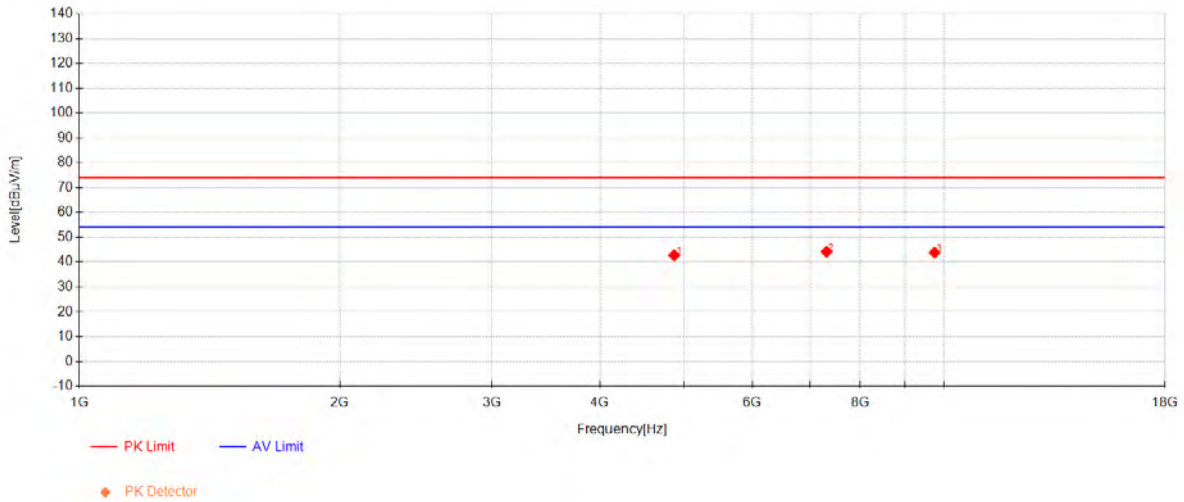


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802.11b CDD\_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	51.08	32.92	-41.28	42.72	74.00	31.28	Vertical
2	7311	45.15	36.37	-37.42	44.10	74.00	29.90	Vertical
3	9748	39.00	37.82	-33.06	43.77	74.00	30.23	Vertical

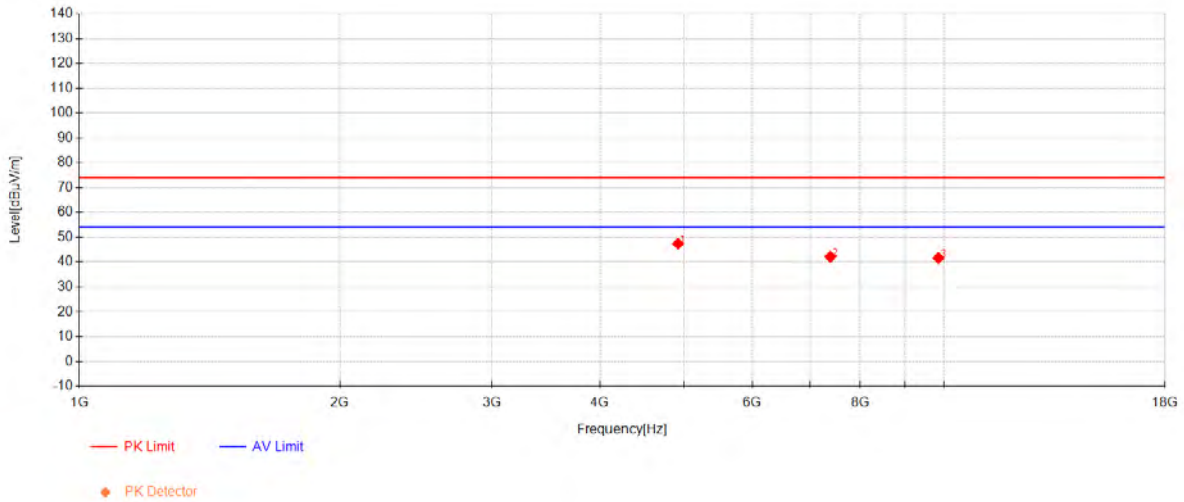


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802.11b CDD\_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	55.63	33.03	-41.26	47.40	74.00	26.60	Horizontal
2	7386	43.46	36.46	-37.82	42.11	74.00	31.89	Horizontal
3	9848	36.63	37.85	-32.85	41.63	74.00	32.37	Horizontal

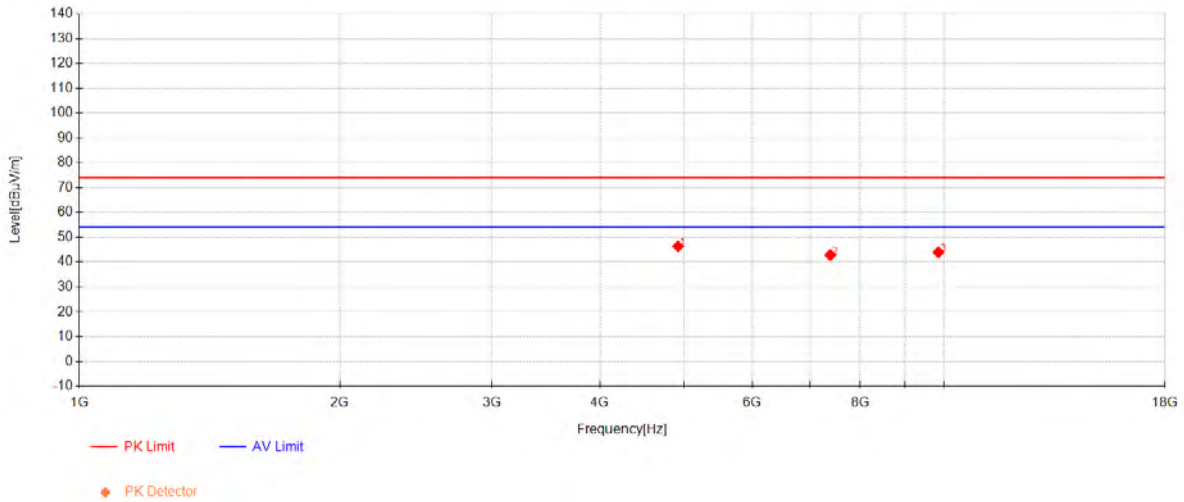


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802.11b CDD\_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	54.58	33.03	-41.26	46.35	74.00	27.65	Vertical
2	7386	44.14	36.46	-37.82	42.79	74.00	31.21	Vertical
3	9848	38.91	37.85	-32.85	43.91	74.00	30.09	Vertical

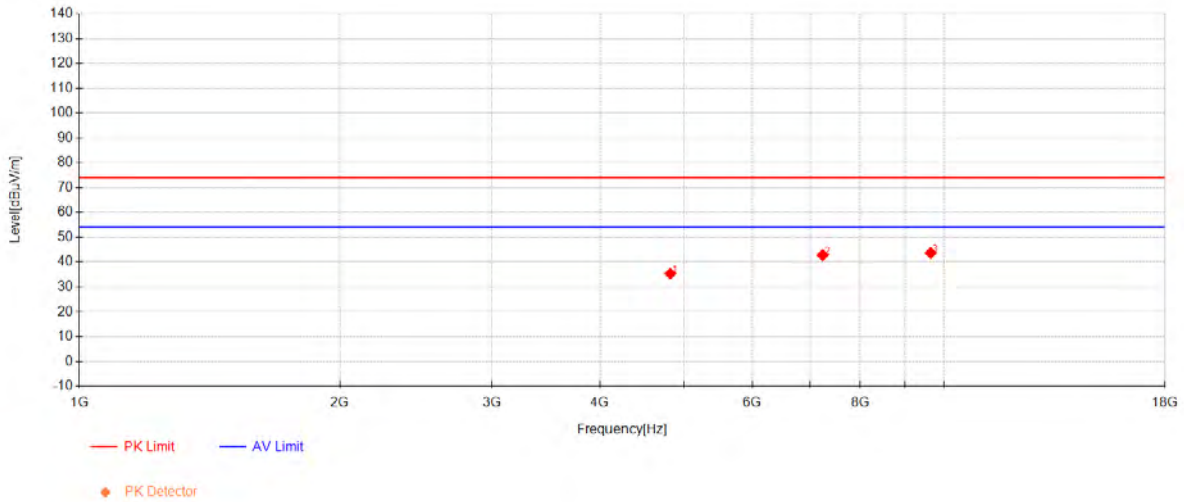


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802.11g CDD\_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	43.94	32.81	-41.43	35.32	74.00	38.68	Horizontal
2	7236	44.29	36.28	-37.81	42.77	74.00	31.23	Horizontal
3	9648	39.11	37.79	-33.26	43.64	74.00	30.36	Horizontal

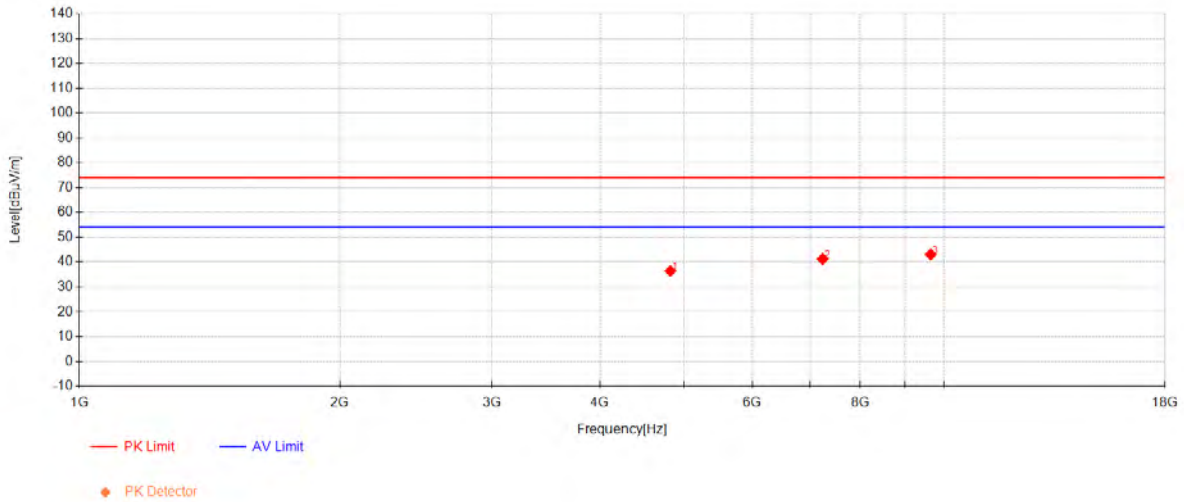


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802.11g CDD\_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	45.03	32.81	-41.43	36.41	74.00	37.59	Vertical
2	7236	42.75	36.28	-37.81	41.23	74.00	32.77	Vertical
3	9648	38.51	37.79	-33.26	43.04	74.00	30.96	Vertical

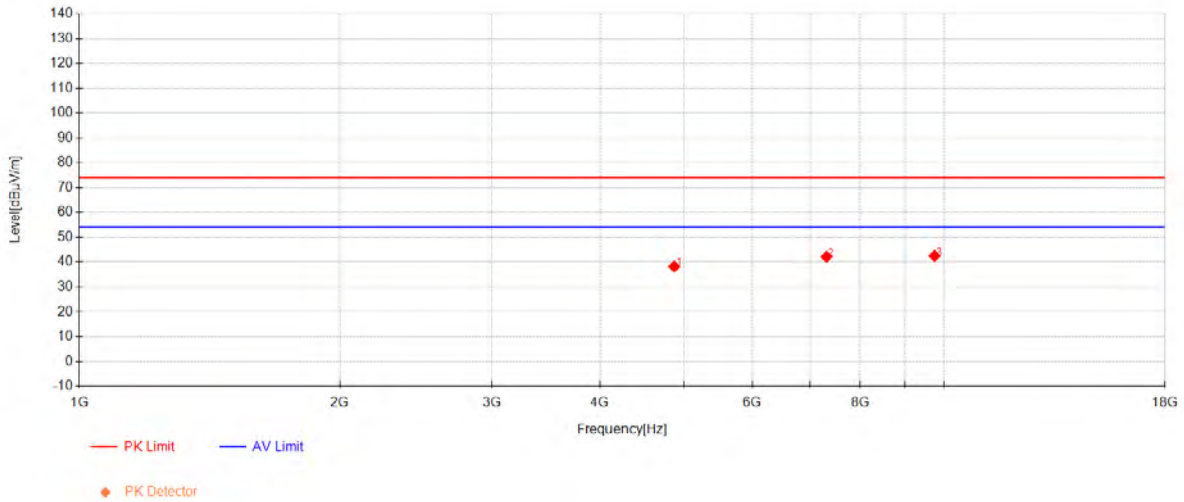


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802.11g CDD\_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	46.58	32.92	-41.28	38.22	74.00	35.78	Horizontal
2	7311	43.18	36.37	-37.42	42.13	74.00	31.87	Horizontal
3	9748	37.71	37.82	-33.06	42.48	74.00	31.52	Horizontal



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