TEST REPORT

Application No.:	SEWM2308000313RG
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:	XD6U695DS
Standards:	FCC 47 CFR Part 15, Subpart E
Date of Receipt:	2023/08/11
Date of Test:	2023/08/16 to 2023/11/30
Date of Issue:	2023/11/30
Test Result :	**PASS ***

* 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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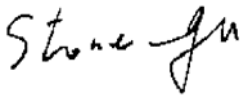
1 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2023/11/30		Original

Prepared By		 **(Ives Cheng) / Test Engineer**
Checked By		 **(Stone Gu) / Reviewer**

2 Test Summary

Test Item	FCC Rule No.	Test Requirements	Test Result	Result
Antenna Requirement	15.203/15.407(a)	--	Clause 4.1	PASS
AC Power Line Conducted Emissions	15.407(b)(8)	< FCC 15.207 limits	Clause 4.2	PASS
Duty Cycle	--	No limit.	Clause 4.3	For Report Purpose
Maximum e.i.r.p.	15.407(a)(8)	< 24dBm over the frequency band of Operation, e.i.r.p.	Clause 4.4	PASS
26dB Emission Bandwidth	15.407(a)(10)	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.	Clause 4.5	PASS
99% Occupied Bandwidth	-	No limit.	Clause 4.6	For Report Purpose
Maximum Power Spectral Density	15.407(a)(8)	< -1dBm/MHz e.i.r.p.	Clause 4.7	PASS
In-Band Emissions	15.407(b)(6)	EUT must meet the limits detailed in 15.407(b)(6)	Clause 4.8	PASS
Contention Based Protocol	15.407(d)(6)	EUT must detect AWGN signal with 90% (or better) certainty	Clause 4.9	PASS
Radiated Spurious Emissions	15.407(b)(5) 15.205, 15.209	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	Clause 4.10	PASS
Restricted Bands around fundamental frequency	15.407(b)(5) 15.205, 15.209	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Clause 4.11	PASS

Contents

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:

- **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

3.4 General Description of EUT

EUT Description:	Smart Phone	
Model No.:	Celero3 5G+	
Hardware Version:	V1.0	
Software Version:	U695DSV01.01.10	
Power Supply:	Lithium Battery (3.85V)	
IMEI:	RF Conducted	867222060002153
	RSE & AC power line	867222065005508
IEEE 802.11 WLAN Mode Supported:	☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 ax(HE20/40/80): 5925 MHz ~ 6425 MHz IEEE 802.11 ax(HE20/40/80): 6425 MHz ~ 6525 MHz IEEE 802.11 ax(HE20/40/80): 6525 MHz ~ 6875 MHz IEEE 802.11 ax(HE20/40/80): 6875 MHz ~ 7125 MHz	
Type of Modulation:	OFDM/OFDMA	
FCC Classification:	6GHz Low Power Indoor Client (6XD)	
Antenna Type:	PIFA Antenna	
Smart System:	☒ MIMO	802.11ax: 2Tx & 2Rx
Antenna Gain:	5925 MHz ~ 6425 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9); 6425 MHz ~ 6525 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9); 6525 MHz ~ 6875 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9); 6875 MHz ~ 7125 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2.0dB	

Remark:
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.
2. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE.
3. This EUT does not support 802.11be, so the Channel Puncturing or Bandwidth Reduction has not been tested.

Remark:
In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre, 1 near low end

For UNII-5:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	1	5955
	45	6175
	93	6415
IEEE 802.11ax 40MHz	3	5965
	43	6165
	91	6405
IEEE 802.11ax 80MHz	7	5985
	39	6145

For UNII-6:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	97	6435
	105	6475
	113	6515
IEEE 802.11ax 40MHz	99	6445
	107	6485
	115	6525
IEEE 802.11ax 80MHz	87	6385
	103	6465

For UNII-7:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	117	6535
	149	6695
	181	6855
	185	6875
IEEE 802.11ax 40MHz	123	6565
	147	6685
	179	6845
IEEE 802.11ax 80MHz	119	6545
	135	6625
	151	6705
	167	6785
	183	6865

For UNII-8:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	189	6895
	209	6995
	233	7115
IEEE 802.11ax 40MHz	187	6885
	195	6925
	203	6965
	227	7085
IEEE 802.11ax 80MHz	199	6945
	215	7025

3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(℃)	Voltage(V)
NTNV	22~23	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203

The antenna is PIFA Antenna and no consideration of replacement.
The best case gain of the antenna is
5925 MHz ~ 6425 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9);*
6425 MHz ~ 6525 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9);*
6525 MHz ~ 6875 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9);*
6875 MHz ~ 7125 MHz: -6.2dBi (Ant7); -3.1dBi (Ant9);*

**Note:*
The antenna gain are derived from the gain information report provided by the manufacturer.
Remark:
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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) dB.
- For power measurements on IEEE 802.11 devices:
  Array Gain = 0 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 GANT 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.

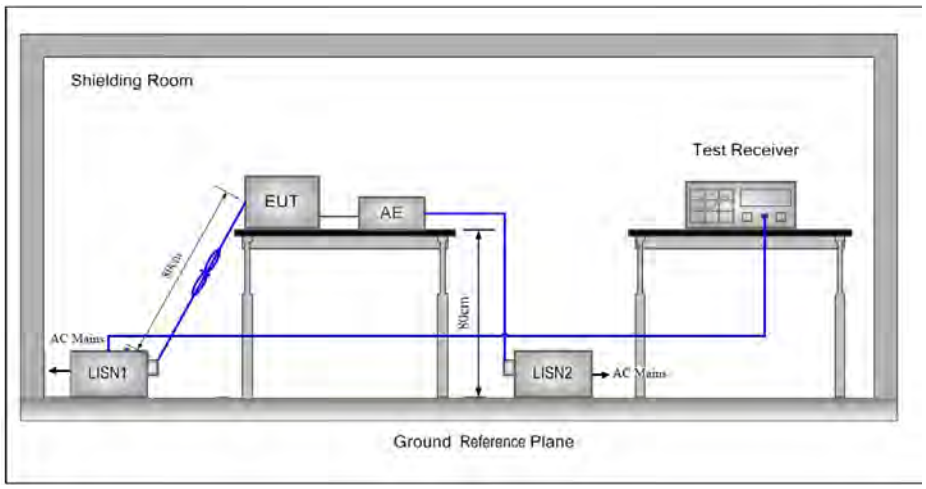
The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain7 (dBi)	ANT Gain9 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)
5925 MHz to 6425 MHz	-6.2	-3.1	-3.1	-1.50
6425 MHz to 6525 MHz	-6.2	-3.1	-3.1	-1.50
6525 MHz to 6875 MHz	-6.2	-3.1	-3.1	-1.50
6875 MHz to 7125 MHz	-6.2	-3.1	-3.1	-1.50

4.2 AC Power Line Conducted Emissions

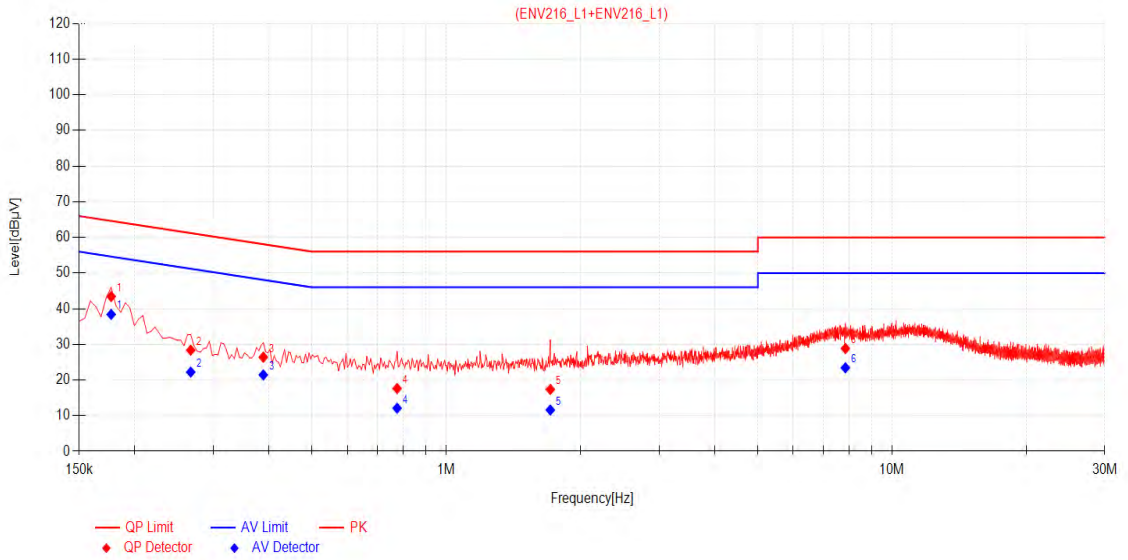
Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	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. 5) 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.		

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

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.

Phase:	Line

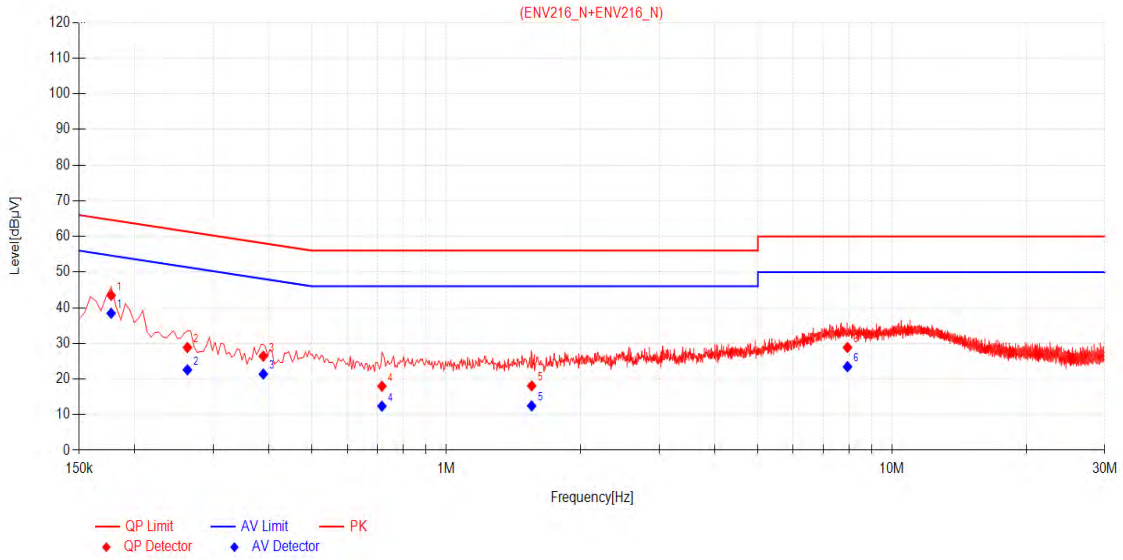


Data List

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	0.1770	11.73	31.70	43.43	64.63	21.20	26.68	38.41	54.63	16.22	PASS
2	0.2670	11.64	16.72	28.36	61.21	32.85	10.58	22.22	51.21	28.99	PASS
3	0.3885	11.61	14.78	26.39	58.10	31.71	9.82	21.43	48.10	26.67	PASS
4	0.7755	11.69	5.91	17.60	56.00	38.40	0.40	12.09	46.00	33.91	PASS
5	1.7115	11.73	5.62	17.35	56.00	38.65	-0.15	11.58	46.00	34.42	PASS
6	7.8585	11.90	16.93	28.83	60.00	31.17	11.53	23.43	50.00	26.57	PASS

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

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	0.1770	11.73	31.73	43.46	64.63	21.17	26.71	38.44	54.63	16.19	PASS
2	0.2625	11.63	17.21	28.84	61.35	32.51	10.93	22.56	51.35	28.79	PASS
3	0.3885	11.61	14.77	26.38	58.10	31.72	9.79	21.40	48.10	26.70	PASS
4	0.7170	11.67	6.31	17.98	56.00	38.02	0.71	12.38	46.00	33.62	PASS
5	1.5540	11.73	6.34	18.07	56.00	37.93	0.73	12.46	46.00	33.54	PASS
6	7.9440	11.89	16.96	28.85	60.00	31.15	11.57	23.46	50.00	26.54	PASS

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

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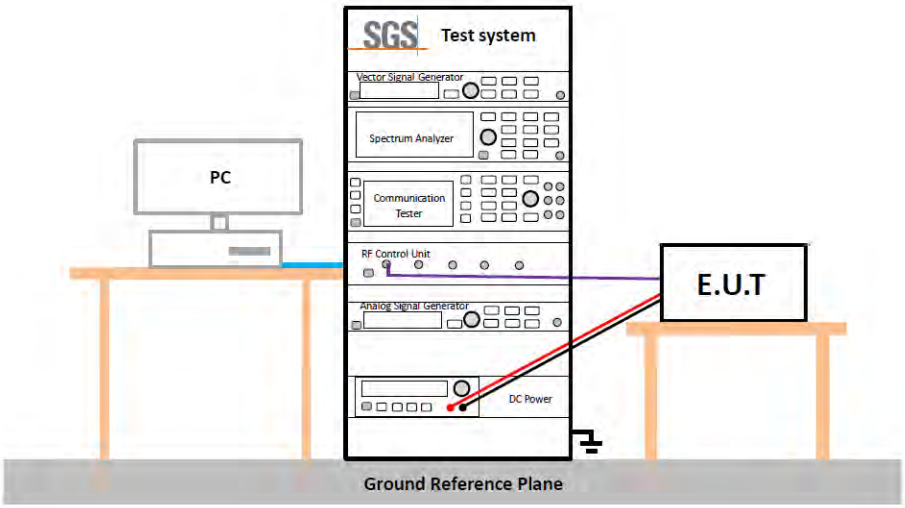
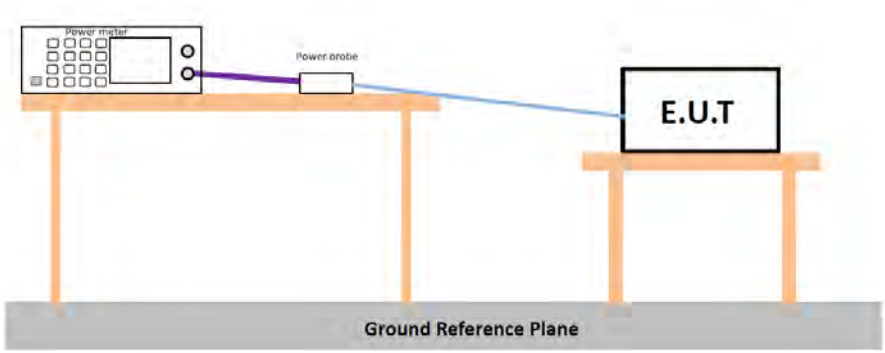
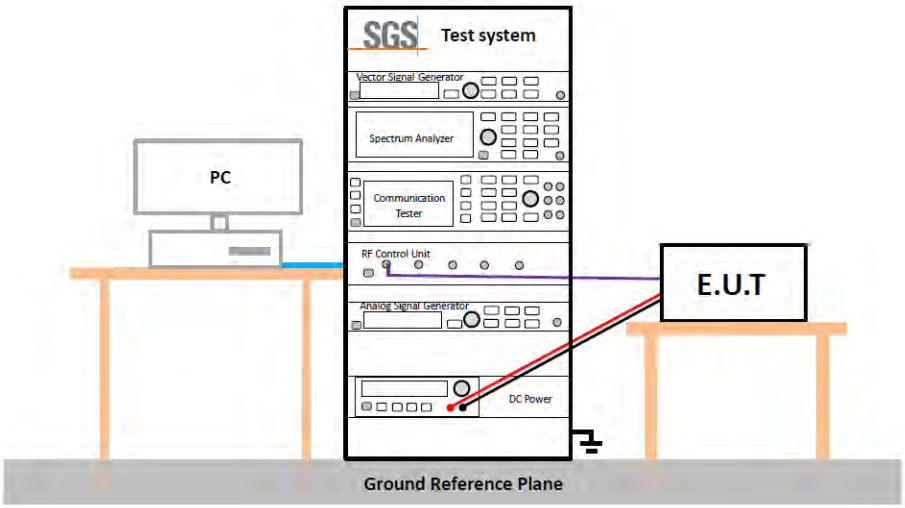
4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2020 Section 12.2
Test Method:	ANSI C63.10-2020 Section 12.2
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: **Appendix**	

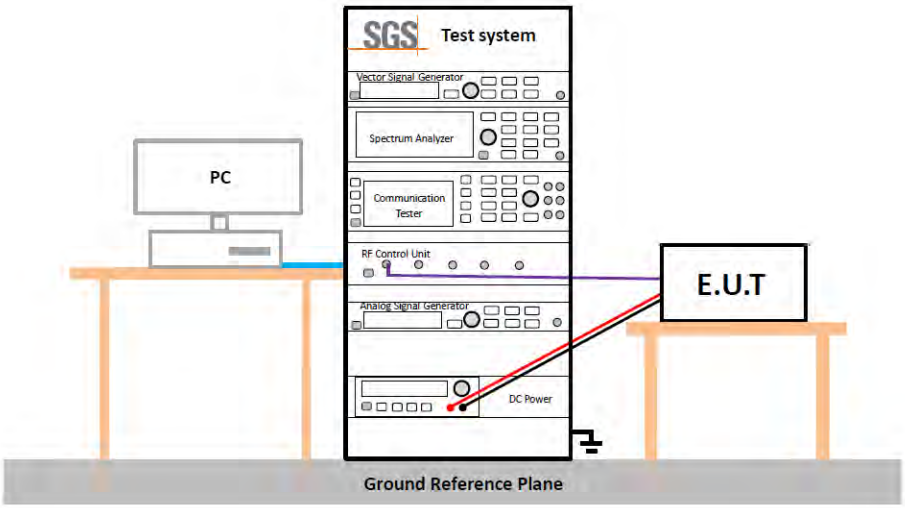
4.4 Maximum e.i.r.p.

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10-2020 Section 12.4.3.2
Test Setup:	 * Test with power meter (Detector function: Average)
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:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.
Test Results:	Pass
The detailed test data see: **Appendix**	

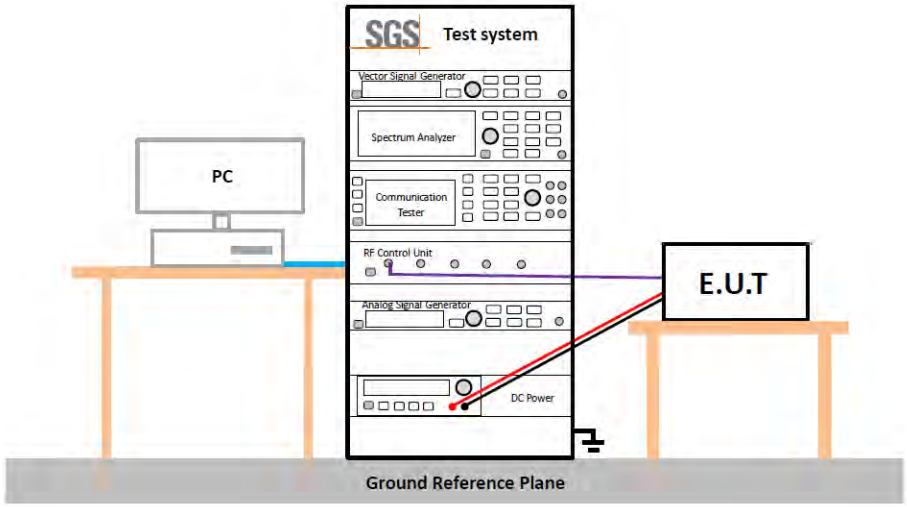
4.5 26dB Emission Bandwidth

Test Requirement:	15.407(a)(10)
Test Method:	ANSI C63.10-2020 Section 12.5.2
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:	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.
Test Results:	PASS
The detailed test data see: **Appendix**	

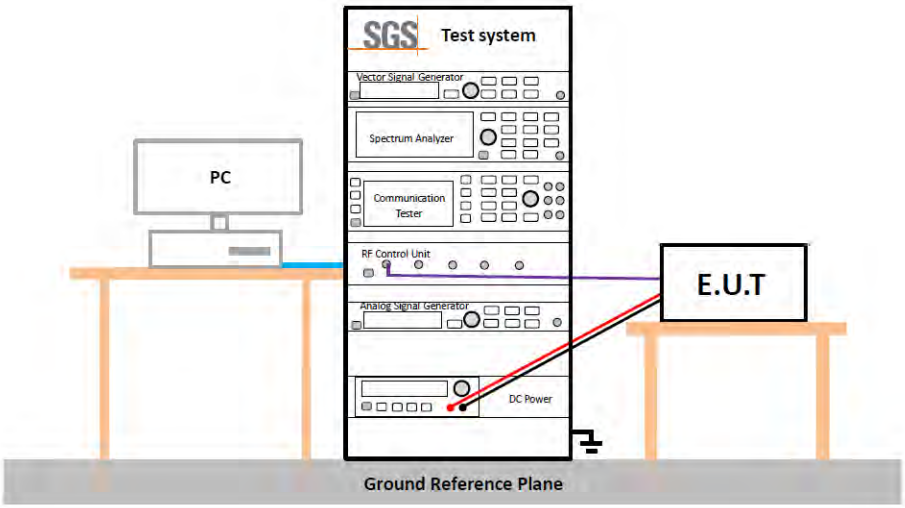
4.6 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
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:	No restriction limits
Test Results:	For report purpose
The detailed test data see: **Appendix**	

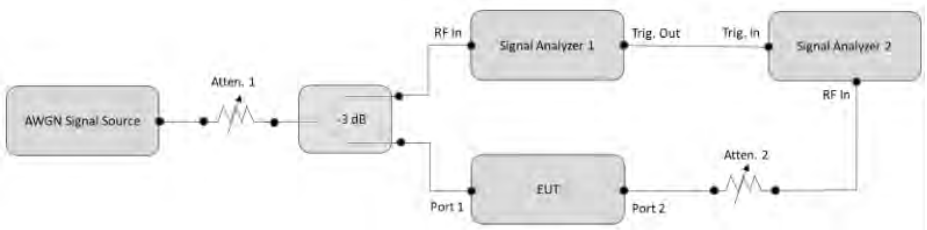
4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F.
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:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band.
Test Results:	Pass
The detailed test data see: **Appendix**	

4.8 In-Band Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)(6)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
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. Only the worst case is recorded in the report.
Limit:	For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.
Test Results:	Pass
The detailed test data see: **Appendix**	

4.9 Contention Based Protocol

Test Requirement:	47 CFR Part 15 Section 15.407(d)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Test Procedure:	1) Configure the EUT to transmit with a constant duty cycle. 2) Set the operating parameters of the EUT including power level, operating frequency,modulation and bandwidth. 3) Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver. 4) Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two. 5) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10MHz AWGN signal relative to the EUT's channel bandwidth and center frequency. 6) Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2. 7) Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1. 8) Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting. 9) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty. 10) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Limit:	Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.
Test Results:	Pass
The detailed test data see: **Appendix**	

4.10 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)(5)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

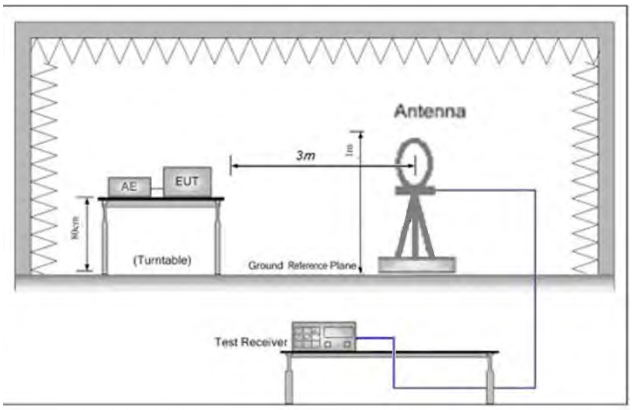


Figure 1. 9kHz to 30MHz

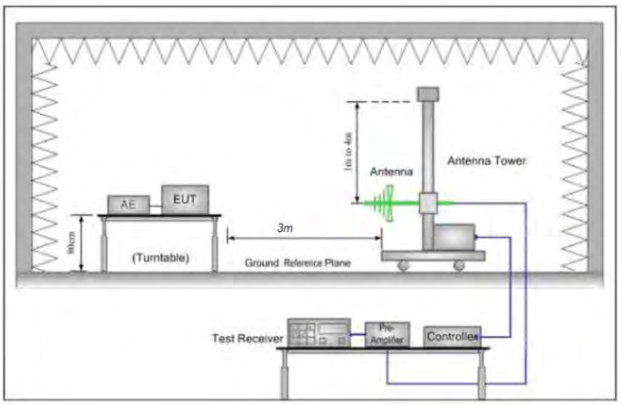


Figure 1. 30MHz to 1GHz

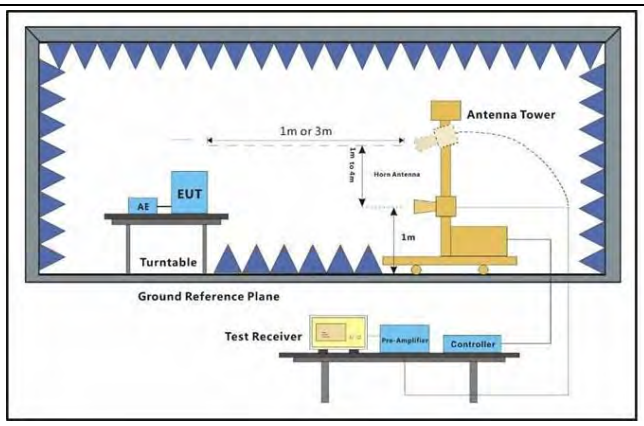


Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. 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

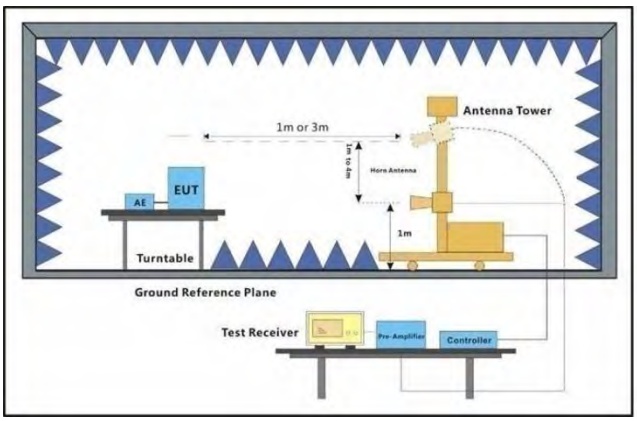
	vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. 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*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-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 = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.

Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: **Appendix**	

4.11 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)(5)		
Test Method:	ANSI C63.10-2020 Section 12.7		
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:



Test Procedure:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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

g. Test the EUT in the outermost channels.

	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.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-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 = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: **Appendix**	

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.

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
				2023/11/21	2024/11/20
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
				2023/11/21	2024/11/20
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

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

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.

Appendix

Emission Bandwidth

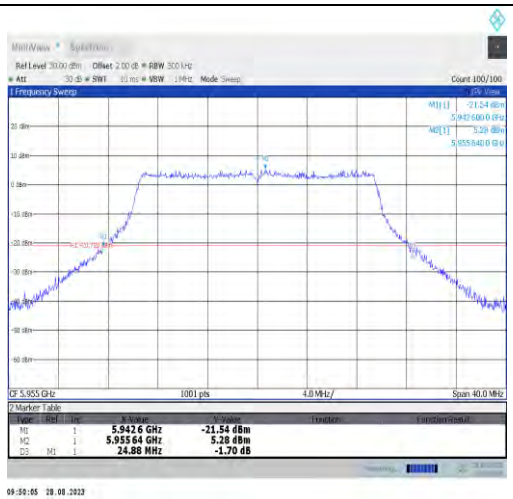
Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11ax20MIMO	Ant7	5955	24.88	5942.60	5967.48	≤320	PASS
11ax20MIMO	Ant9	5955	24.44	5942.68	5967.12	≤320	PASS
11ax20MIMO	Ant7	6175	23.84	6163.24	6187.08	≤320	PASS
11ax20MIMO	Ant9	6175	23.28	6163.36	6186.64	≤320	PASS
11ax20MIMO	Ant7	6415	23.52	6403.28	6426.80	≤320	PASS
11ax20MIMO	Ant9	6415	23.36	6403.28	6426.64	≤320	PASS
11ax20MIMO	Ant7	6435	23.64	6423.04	6446.68	≤320	PASS
11ax20MIMO	Ant9	6435	23.32	6423.20	6446.52	≤320	PASS
11ax20MIMO	Ant7	6475	23.68	6462.96	6486.64	≤320	PASS
11ax20MIMO	Ant9	6475	23.40	6463.32	6486.72	≤320	PASS
11ax20MIMO	Ant7	6515	23.64	6503.24	6526.88	≤320	PASS
11ax20MIMO	Ant9	6515	23.16	6503.56	6526.72	≤320	PASS
11ax20MIMO	Ant7	6535	23.40	6523.32	6546.72	≤320	PASS
11ax20MIMO	Ant9	6535	22.36	6523.64	6546.00	≤320	PASS
11ax20MIMO	Ant7	6695	23.68	6683.24	6706.92	≤320	PASS
11ax20MIMO	Ant9	6695	23.20	6683.36	6706.56	≤320	PASS
11ax20MIMO	Ant7	6855	24.00	6842.84	6866.84	≤320	PASS
11ax20MIMO	Ant9	6855	22.44	6843.72	6866.16	≤320	PASS
11ax20MIMO	Ant7	6875	23.20	6863.44	6886.64	≤320	PASS
11ax20MIMO	Ant9	6875	23.20	6863.16	6886.36	≤320	PASS
11ax20MIMO	Ant7	6895	23.56	6883.12	6906.68	≤320	PASS
11ax20MIMO	Ant9	6895	22.76	6883.56	6906.32	≤320	PASS
11ax20MIMO	Ant7	6995	23.28	6983.40	7006.68	≤320	PASS
11ax20MIMO	Ant9	6995	23.00	6983.44	7006.44	≤320	PASS
11ax20MIMO	Ant7	7115	24.00	7103.12	7127.12	≤320	PASS
11ax20MIMO	Ant9	7115	23.60	7103.20	7126.80	≤320	PASS
11ax40MIMO	Ant7	5965	39.76	5945.08	5984.84	≤320	PASS
11ax40MIMO	Ant9	5965	40.00	5945.00	5985.00	≤320	PASS
11ax40MIMO	Ant7	6165	39.84	6145.08	6184.92	≤320	PASS
11ax40MIMO	Ant9	6165	39.84	6145.08	6184.92	≤320	PASS
11ax40MIMO	Ant7	6405	39.92	6385.00	6424.92	≤320	PASS
11ax40MIMO	Ant9	6405	39.92	6385.00	6424.92	≤320	PASS
11ax40MIMO	Ant7	6445	39.84	6425.00	6464.84	≤320	PASS
11ax40MIMO	Ant9	6445	39.84	6425.08	6464.92	≤320	PASS
11ax40MIMO	Ant7	6485	39.76	6465.08	6504.84	≤320	PASS
11ax40MIMO	Ant9	6485	39.76	6465.08	6504.84	≤320	PASS
11ax40MIMO	Ant7	6525	39.76	6505.16	6544.92	≤320	PASS
11ax40MIMO	Ant9	6525	39.84	6505.08	6544.92	≤320	PASS
11ax40MIMO	Ant7	6565	40.00	6545.00	6585.00	≤320	PASS
11ax40MIMO	Ant9	6565	40.00	6545.00	6585.00	≤320	PASS
11ax40MIMO	Ant7	6685	39.84	6665.08	6704.92	≤320	PASS
11ax40MIMO	Ant9	6685	39.76	6665.08	6704.84	≤320	PASS
11ax40MIMO	Ant7	6845	39.84	6825.08	6864.92	≤320	PASS
11ax40MIMO	Ant9	6845	39.76	6825.08	6864.84	≤320	PASS
11ax40MIMO	Ant7	6885	39.92	6865.00	6904.92	≤320	PASS
11ax40MIMO	Ant9	6885	39.76	6865.08	6904.84	≤320	PASS
11ax40MIMO	Ant7	6925	39.84	6905.00	6944.84	≤320	PASS
11ax40MIMO	Ant9	6925	39.84	6905.00	6944.84	≤320	PASS
11ax40MIMO	Ant7	6965	39.76	6945.08	6984.84	≤320	PASS

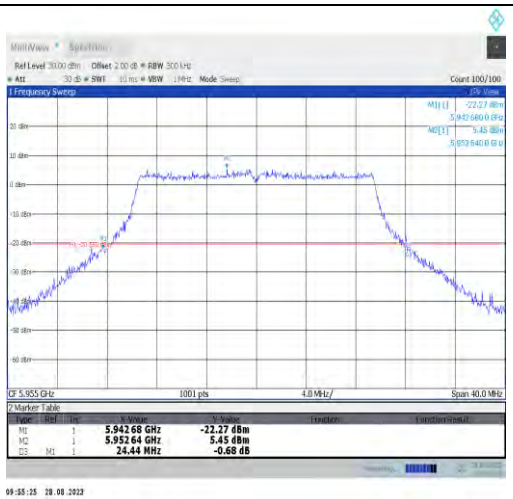
11ax40MIMO	Ant9	6965	39.76	6945.08	6984.84	≤320	PASS
11ax40MIMO	Ant7	7085	39.76	7065.08	7104.84	≤320	PASS
11ax40MIMO	Ant9	7085	39.76	7065.08	7104.84	≤320	PASS
11ax80MIMO	Ant7	5985	80.96	5944.52	6025.48	≤320	PASS
11ax80MIMO	Ant9	5985	80.96	5944.36	6025.32	≤320	PASS
11ax80MIMO	Ant7	6145	80.96	6104.52	6185.48	≤320	PASS
11ax80MIMO	Ant9	6145	81.12	6104.36	6185.48	≤320	PASS
11ax80MIMO	Ant7	6385	81.12	6344.36	6425.48	≤320	PASS
11ax80MIMO	Ant9	6385	81.12	6344.36	6425.48	≤320	PASS
11ax80MIMO	Ant7	6465	81.12	6424.52	6505.64	≤320	PASS
11ax80MIMO	Ant9	6465	80.96	6424.52	6505.48	≤320	PASS
11ax80MIMO	Ant7	6545	80.96	6504.52	6585.48	≤320	PASS
11ax80MIMO	Ant9	6545	80.96	6504.52	6585.48	≤320	PASS
11ax80MIMO	Ant7	6625	80.96	6584.52	6665.48	≤320	PASS
11ax80MIMO	Ant9	6625	80.96	6584.52	6665.48	≤320	PASS
11ax80MIMO	Ant7	6705	81.12	6664.36	6745.48	≤320	PASS
11ax80MIMO	Ant9	6705	80.96	6664.52	6745.48	≤320	PASS
11ax80MIMO	Ant7	6785	80.96	6744.36	6825.32	≤320	PASS
11ax80MIMO	Ant9	6785	81.12	6744.36	6825.48	≤320	PASS
11ax80MIMO	Ant7	6865	80.80	6824.52	6905.32	≤320	PASS
11ax80MIMO	Ant9	6865	81.12	6824.36	6905.48	≤320	PASS
11ax80MIMO	Ant7	6945	93.28	6892.20	6985.48	≤320	PASS
11ax80MIMO	Ant9	6945	80.96	6904.52	6985.48	≤320	PASS
11ax80MIMO	Ant7	7025	81.12	6984.36	7065.48	≤320	PASS
11ax80MIMO	Ant9	7025	88.64	6976.84	7065.48	≤320	PASS

TestMode	Antenna	Frequency [MHz]	Ru Size	Ru Index	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11ax20MIMO	Ant7	6435	26Tone	RU0	20.92	6423.40	6444.32	≤320	PASS
11ax20MIMO	Ant9	6435	26Tone	RU0	20.96	6423.36	6444.32	≤320	PASS
11ax40MIMO	Ant7	6525	242Tone	RU62	39.36	6505.56	6544.92	≤320	PASS
11ax40MIMO	Ant9	6525	242Tone	RU62	39.44	6505.48	6544.92	≤320	PASS
11ax80MIMO	Ant7	6705	484Tone	RU66	80.48	6665.00	6745.48	≤320	PASS
11ax80MIMO	Ant9	6705	484Tone	RU66	80.64	6664.84	6745.48	≤320	PASS

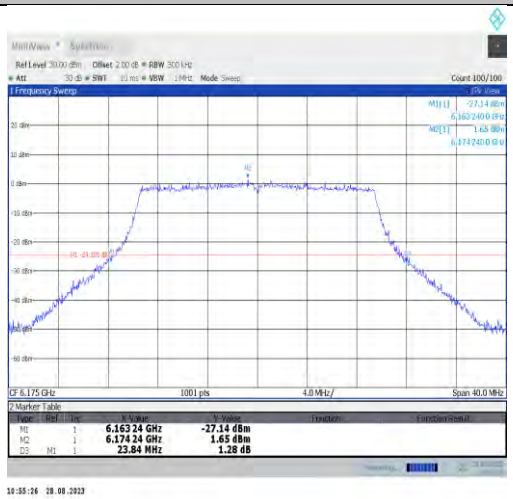
Test Graphs



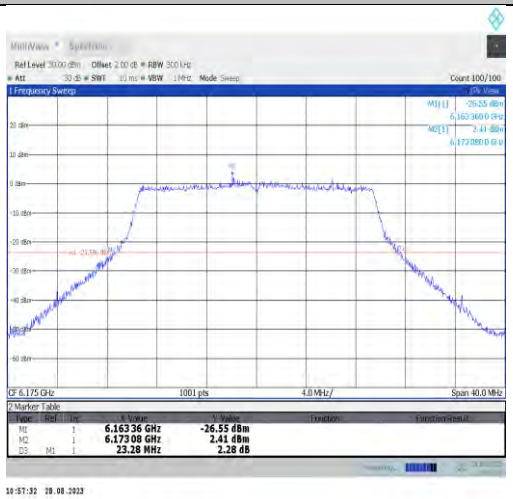
11ax20MIMO-Ant7-5955



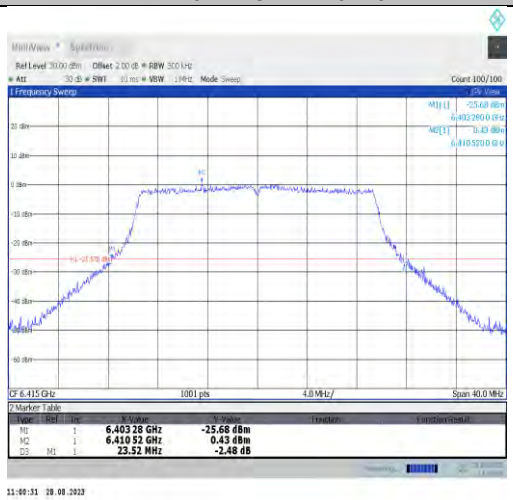
11ax20MIMO-Ant9-5955

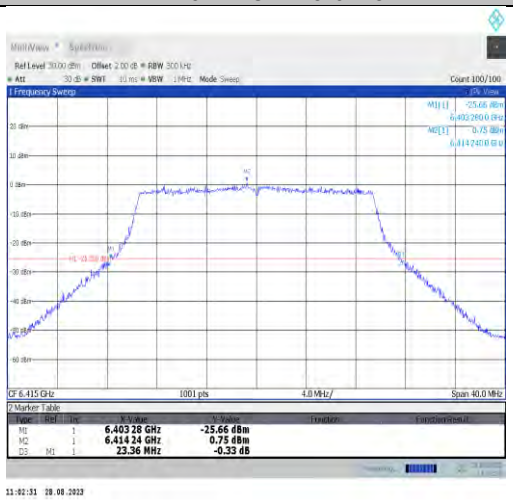


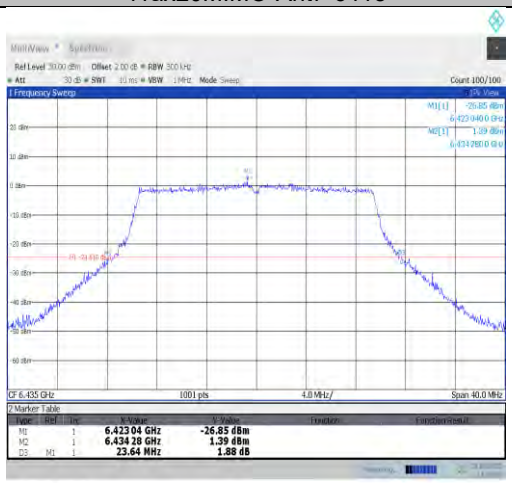
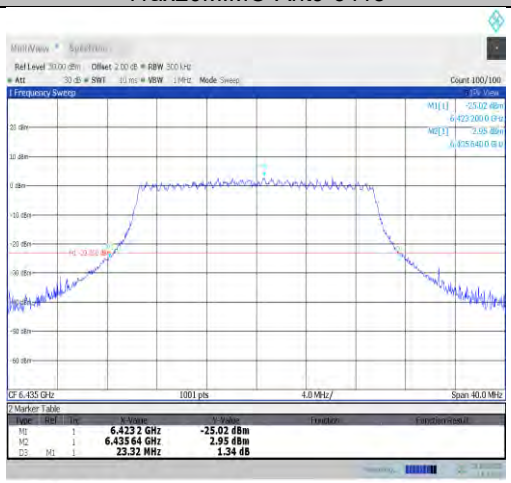
11ax20MIMO-Ant7-6175



11ax20MIMO-Ant9-6175





11ax20MIMO-Ant7-6415	11ax20MIMO-Ant9-6415
	
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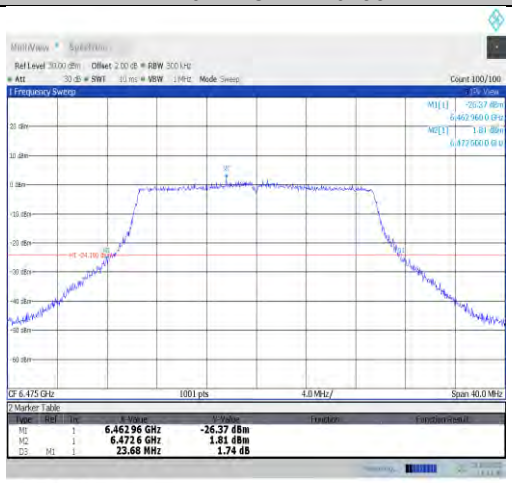	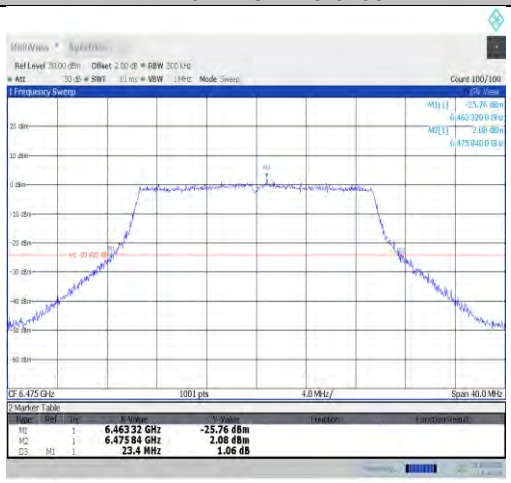
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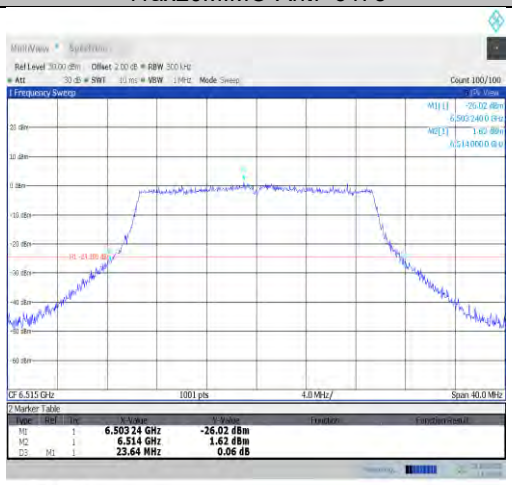	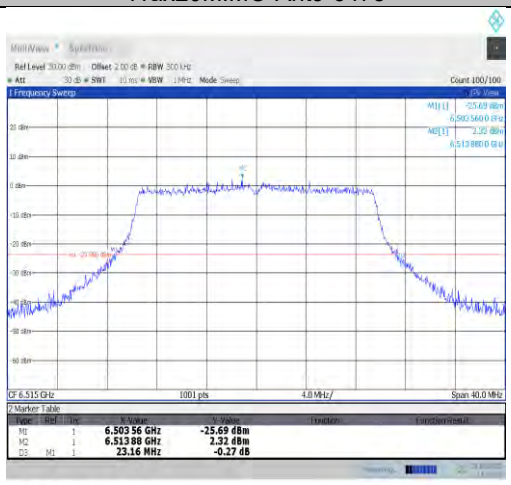
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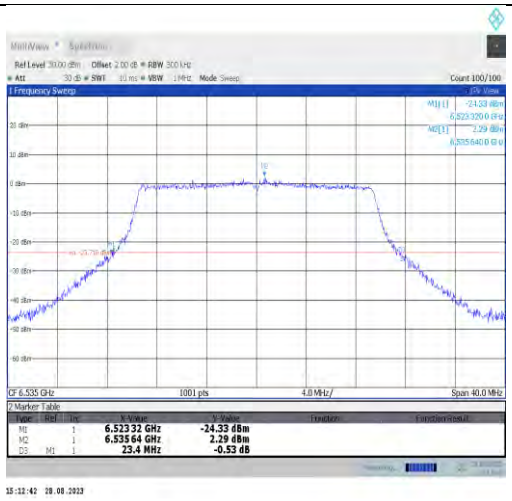

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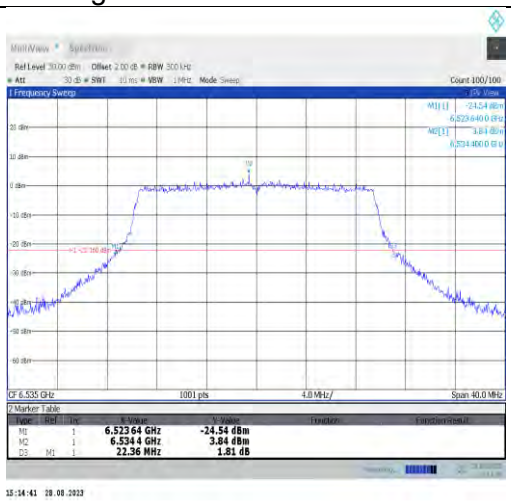

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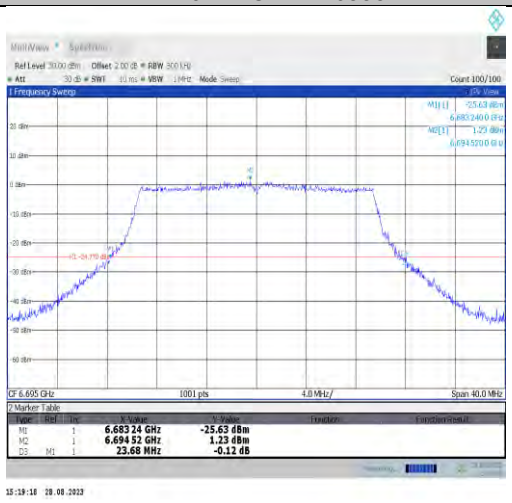

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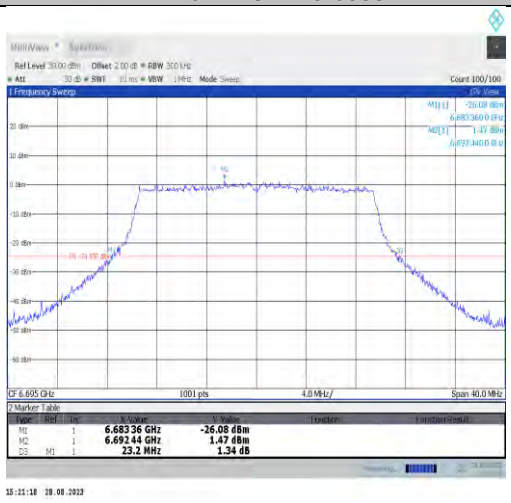

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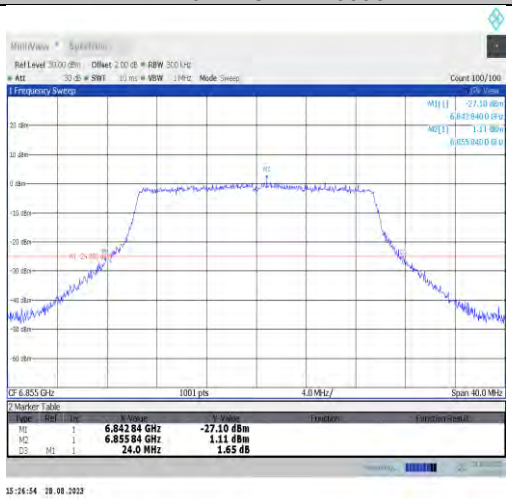

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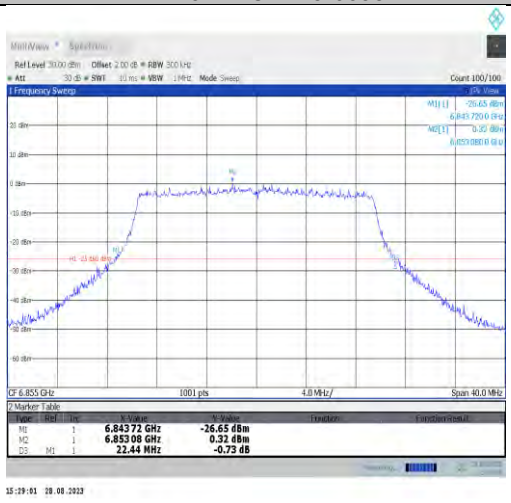

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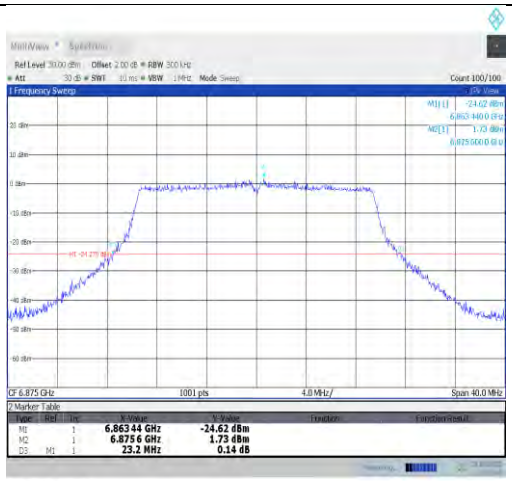

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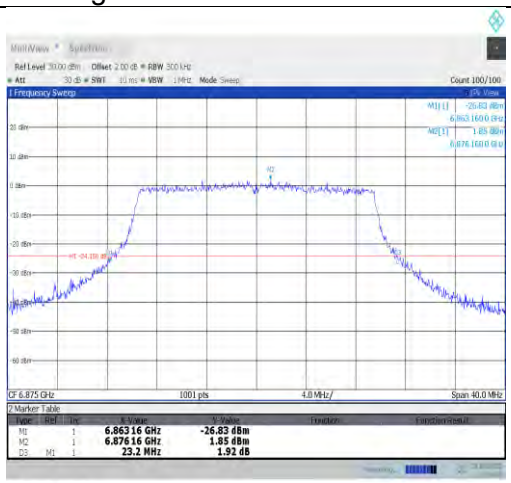

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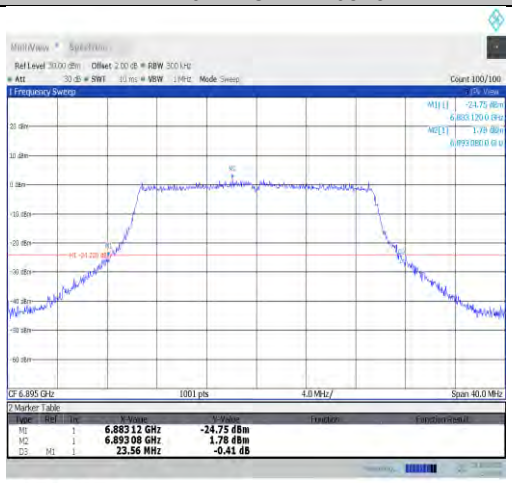

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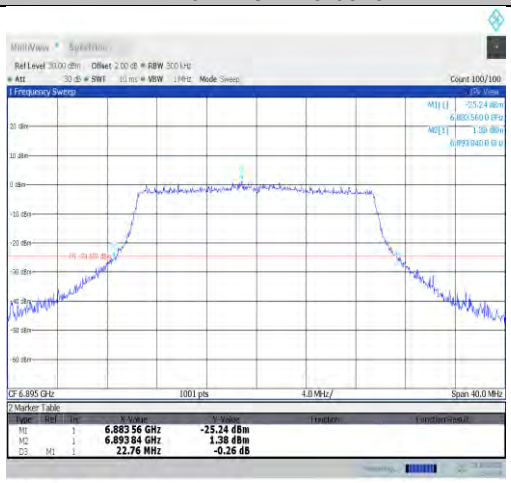

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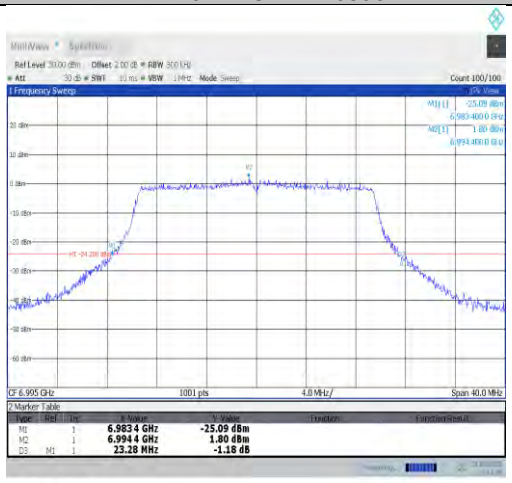

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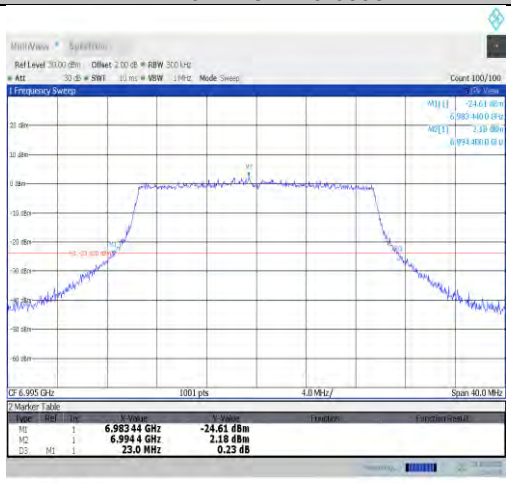

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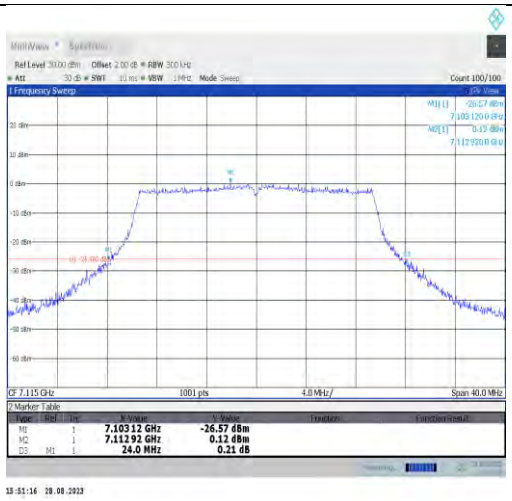

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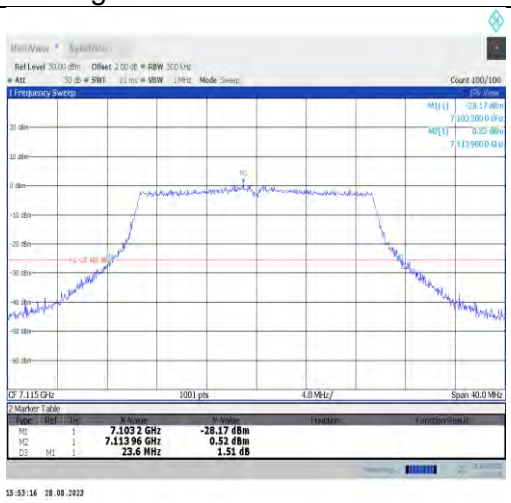

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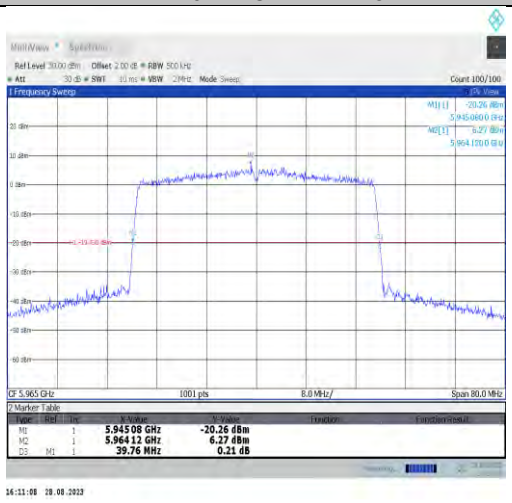

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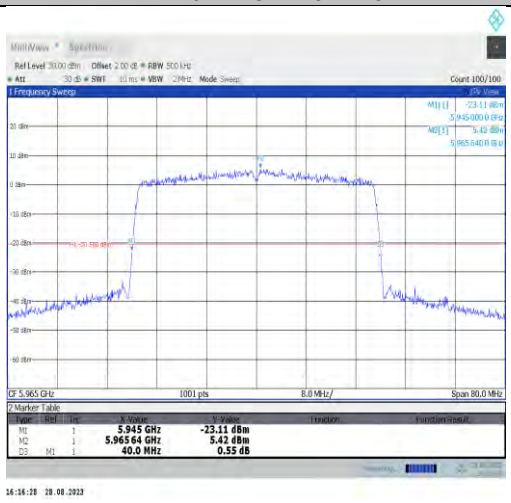

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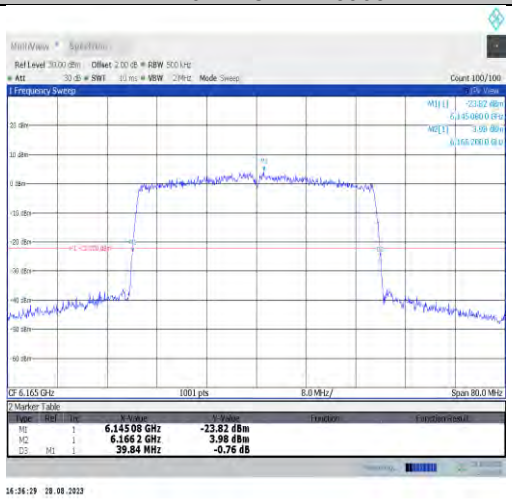

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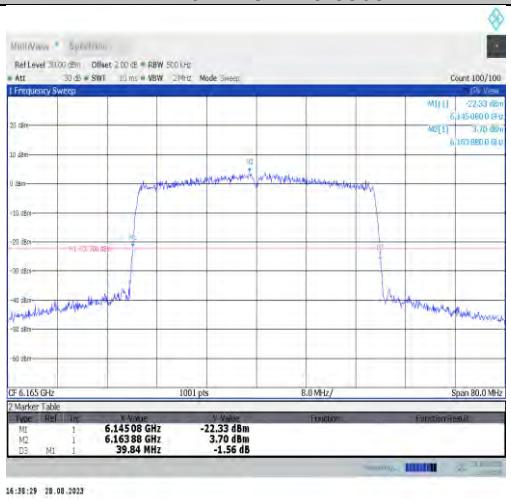

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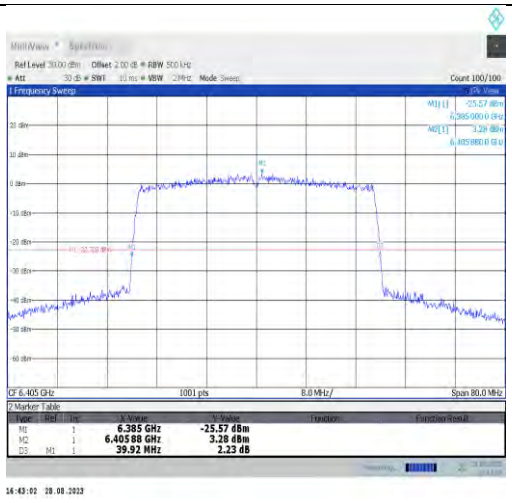

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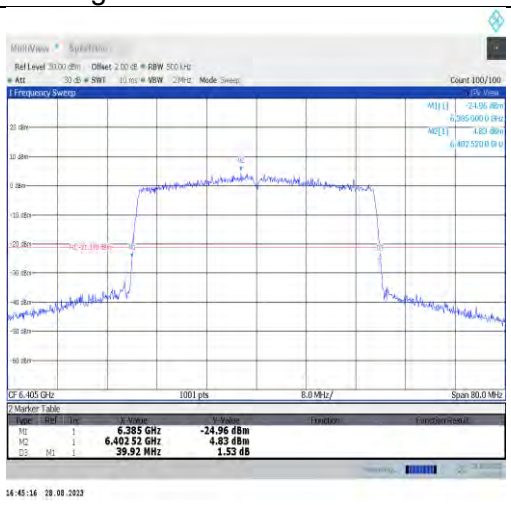

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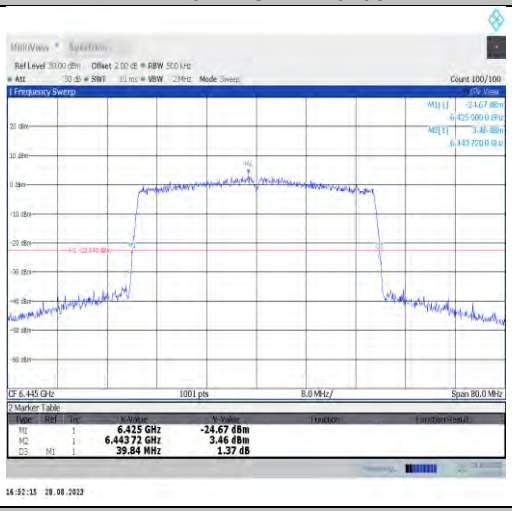

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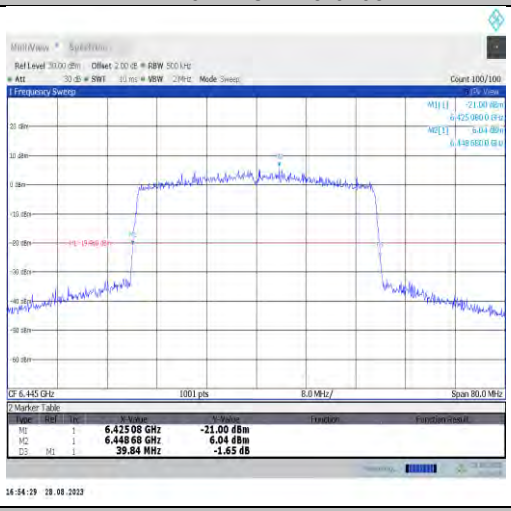

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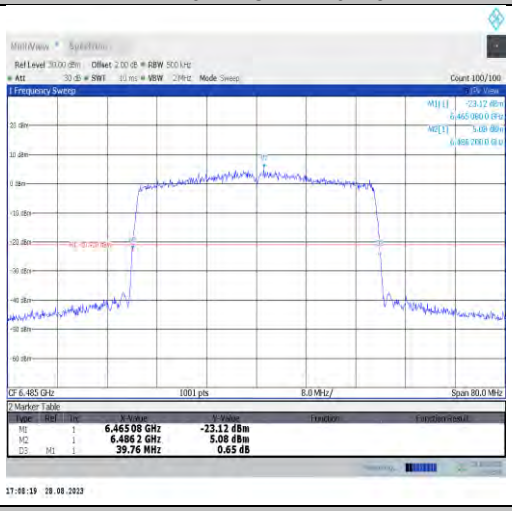

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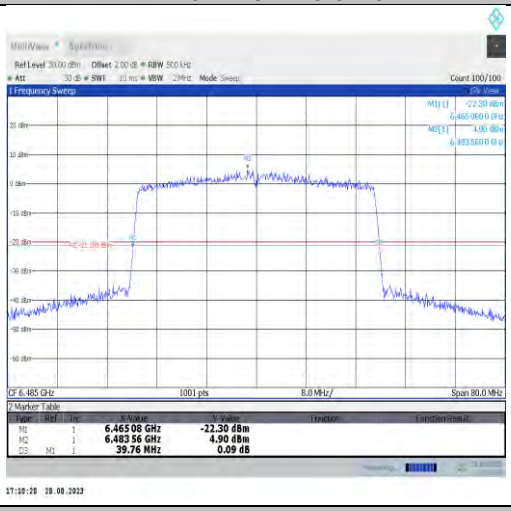

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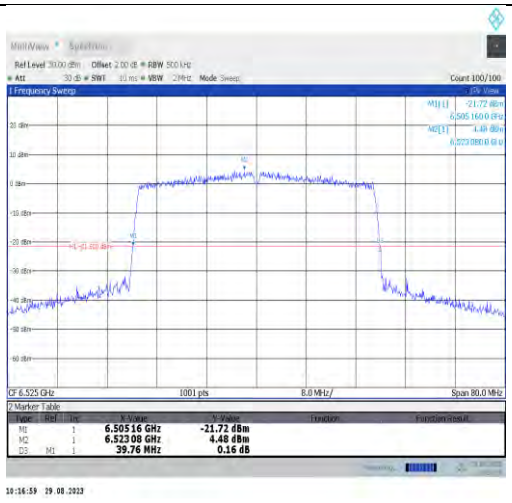

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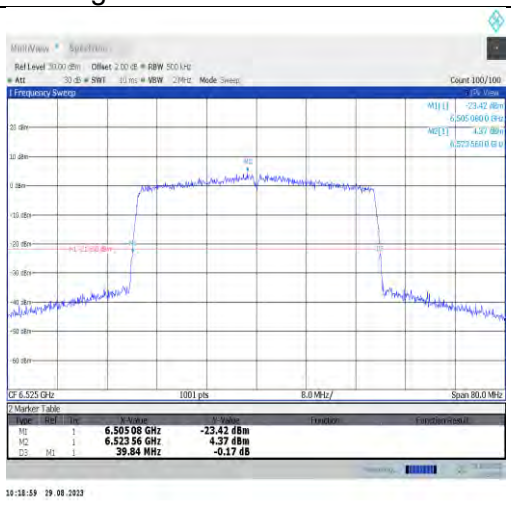

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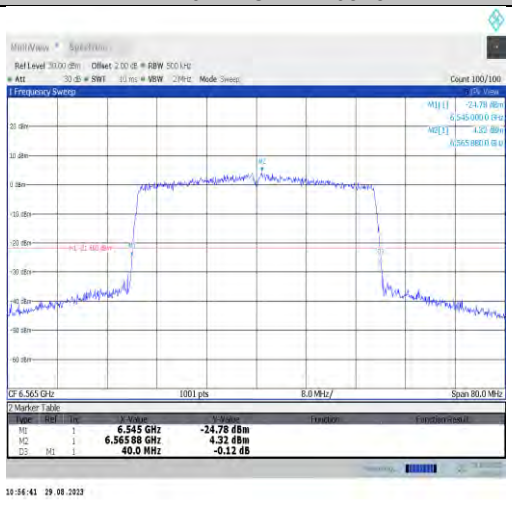

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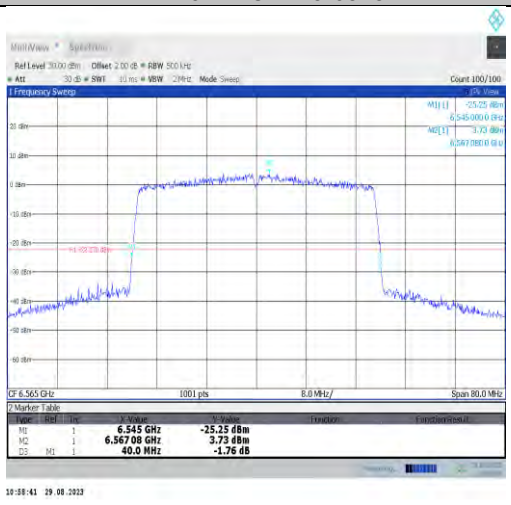

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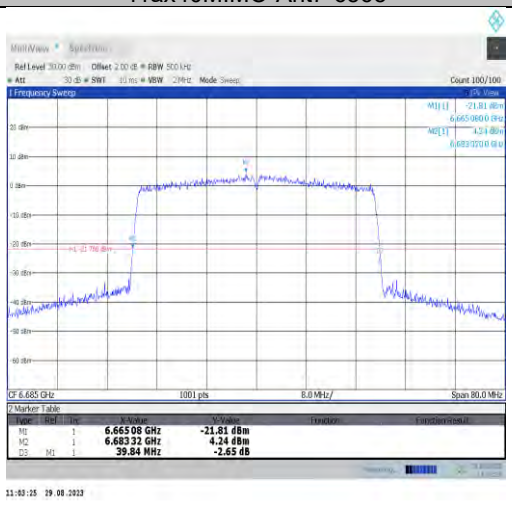

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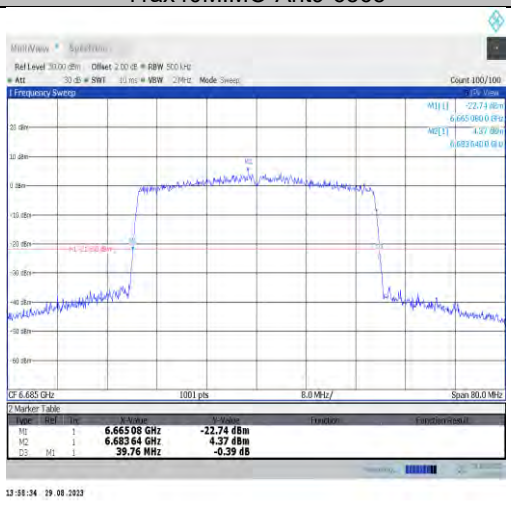

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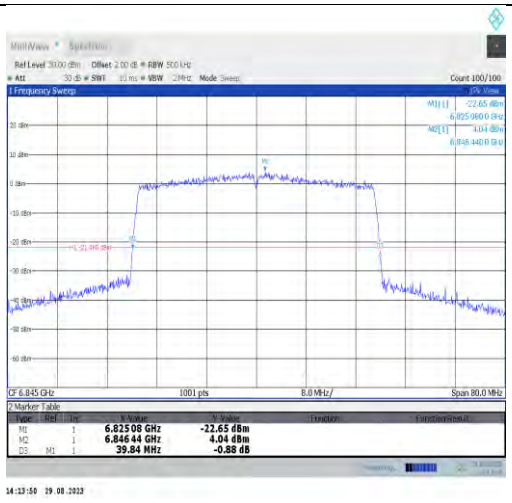

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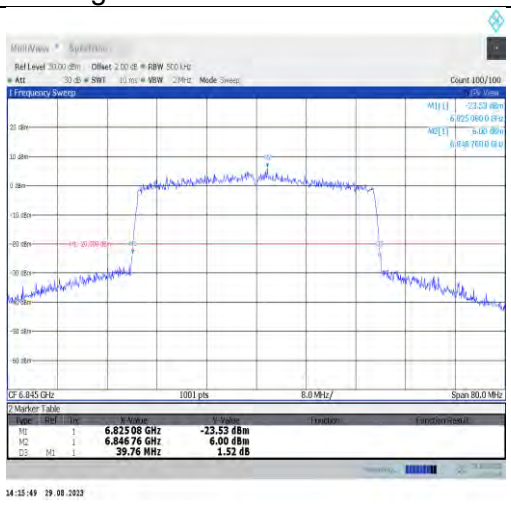

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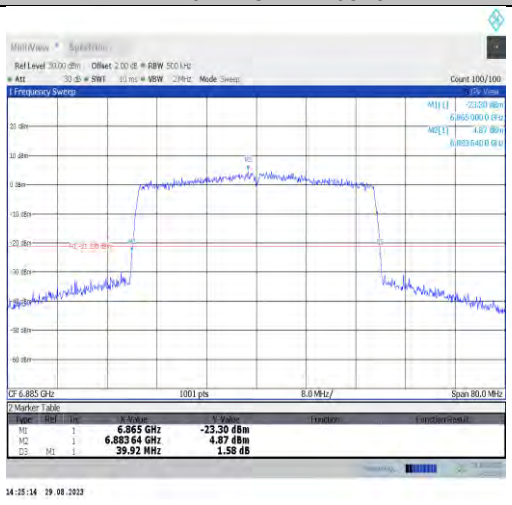

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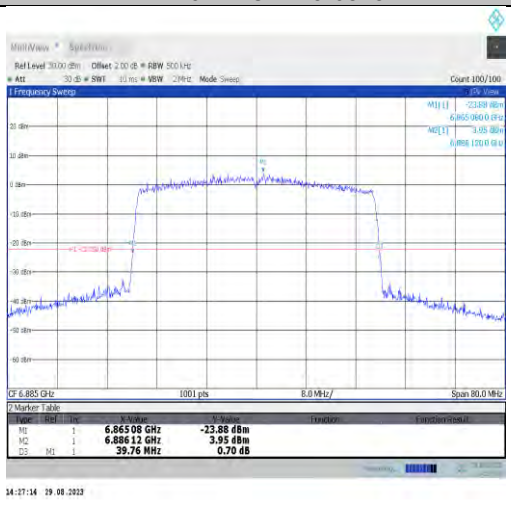

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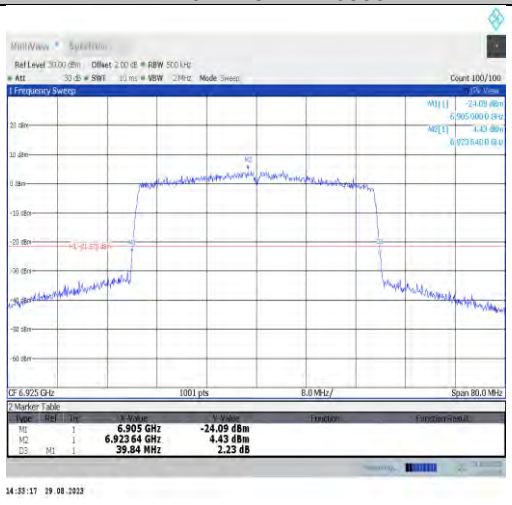

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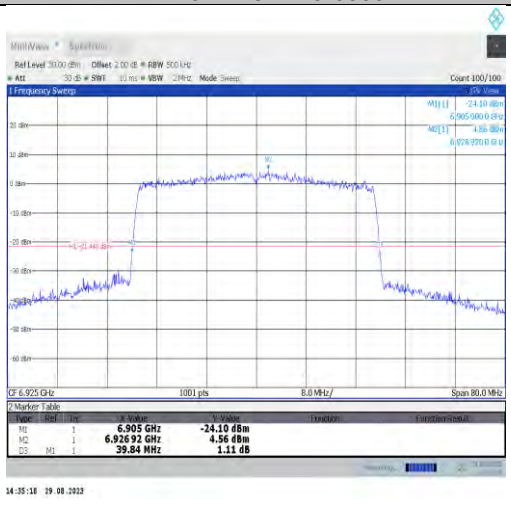

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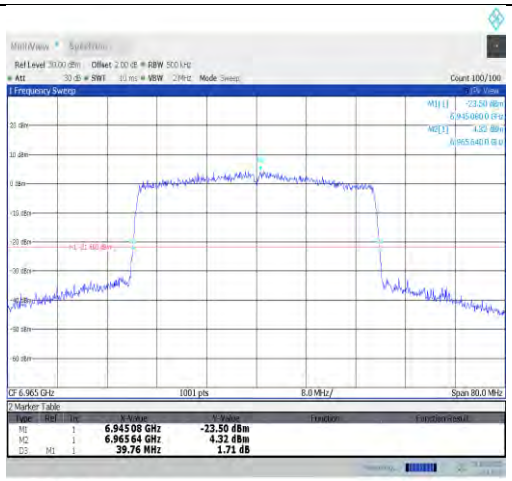

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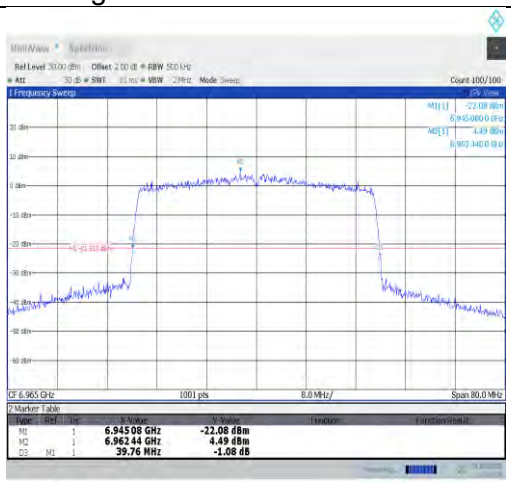

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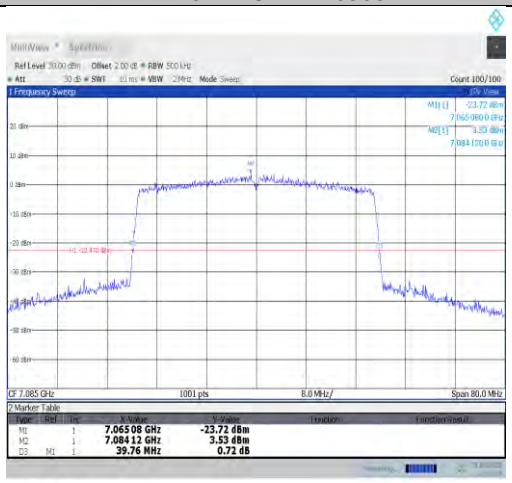

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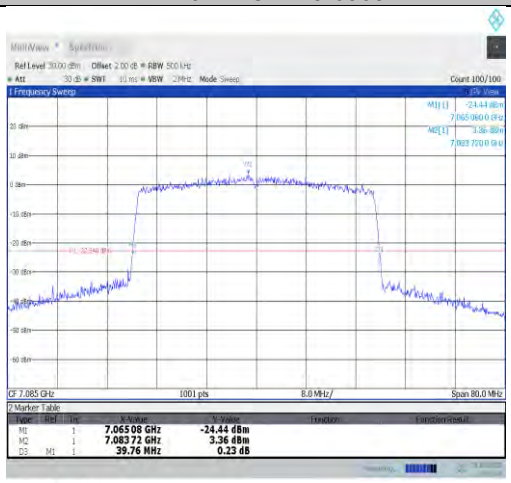

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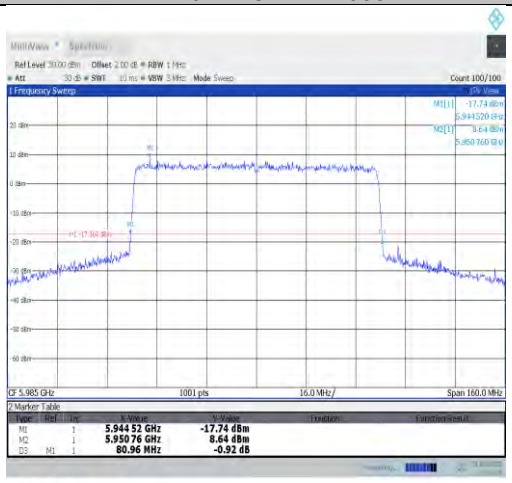

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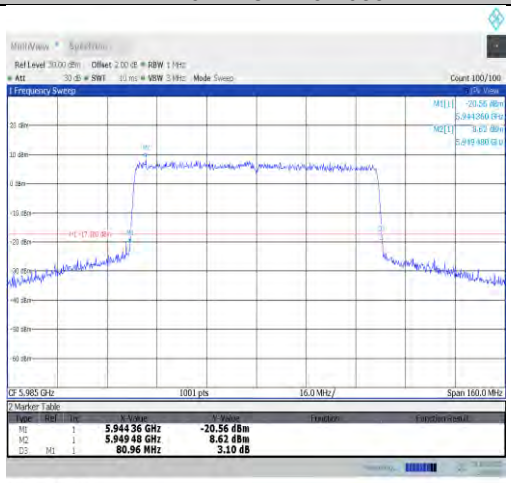

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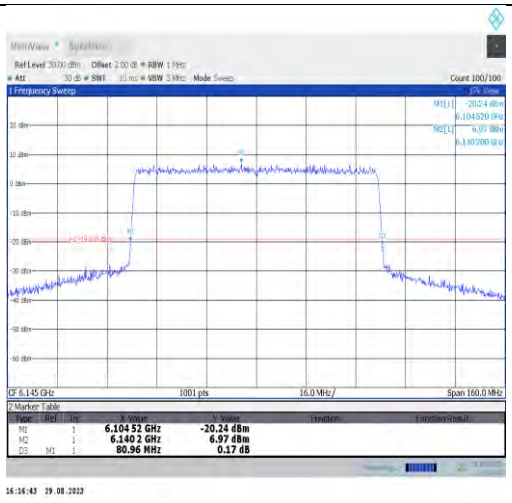

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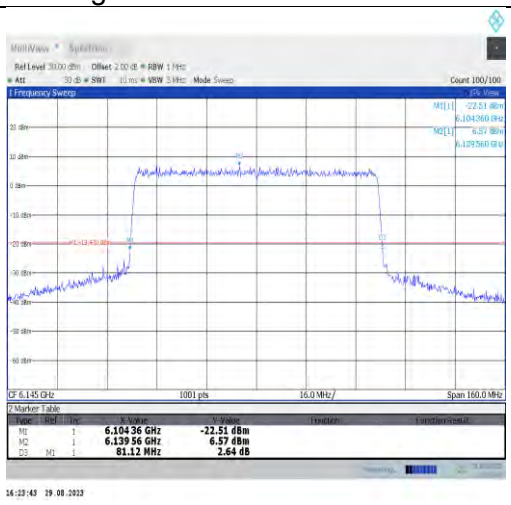

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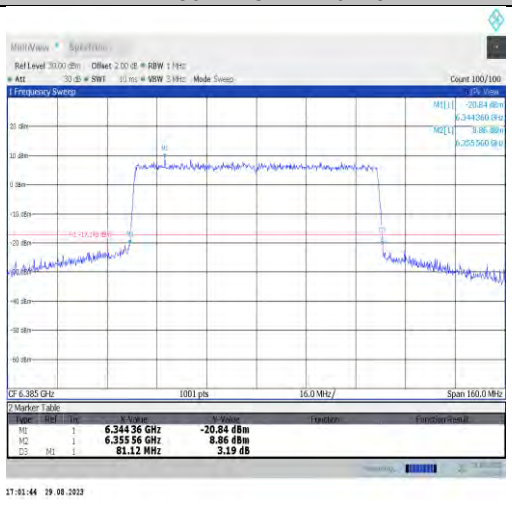

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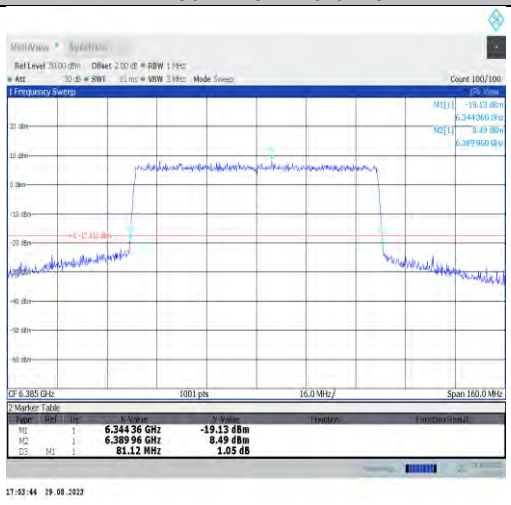

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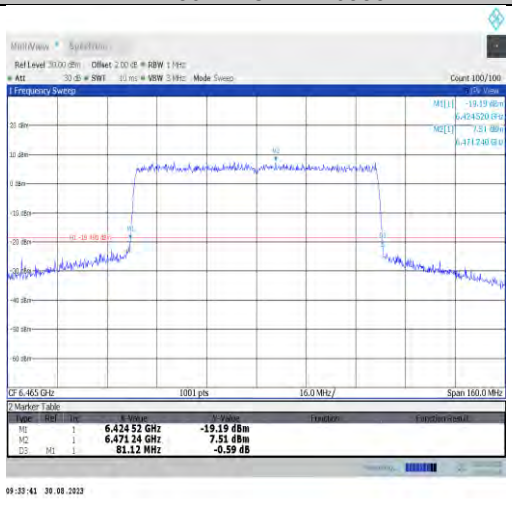

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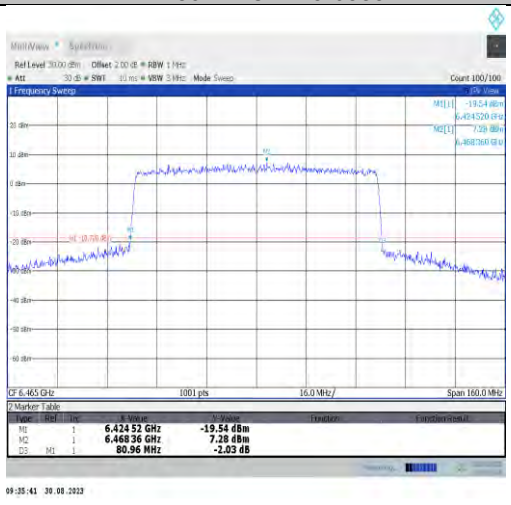

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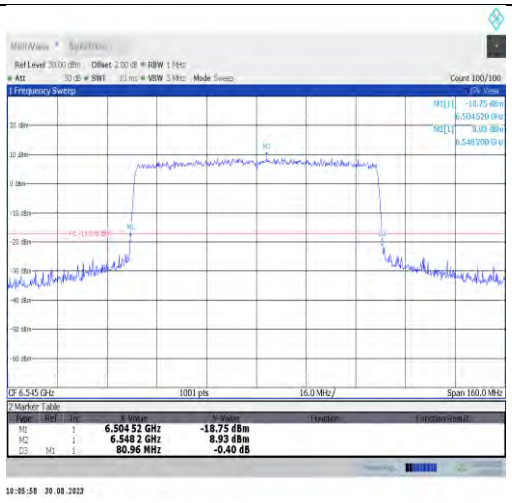

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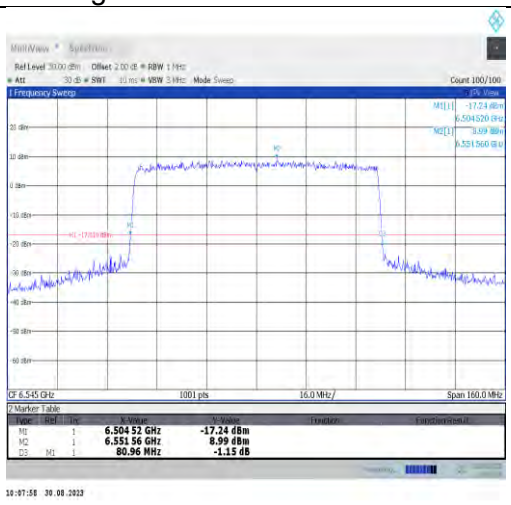

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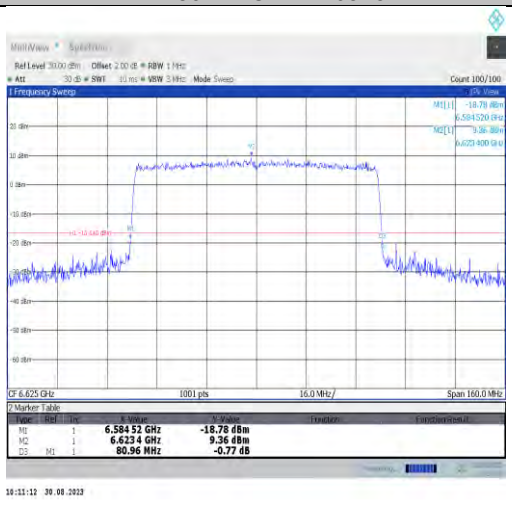

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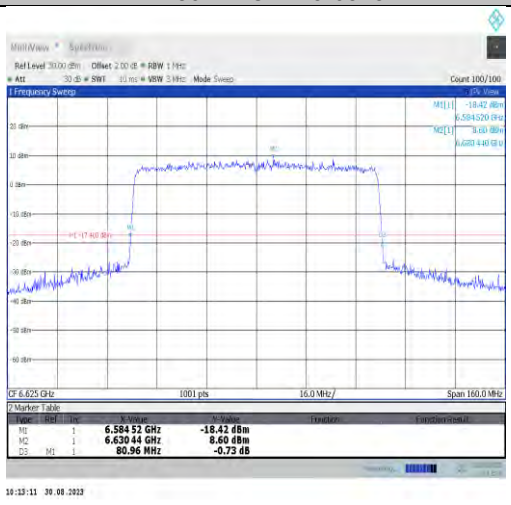

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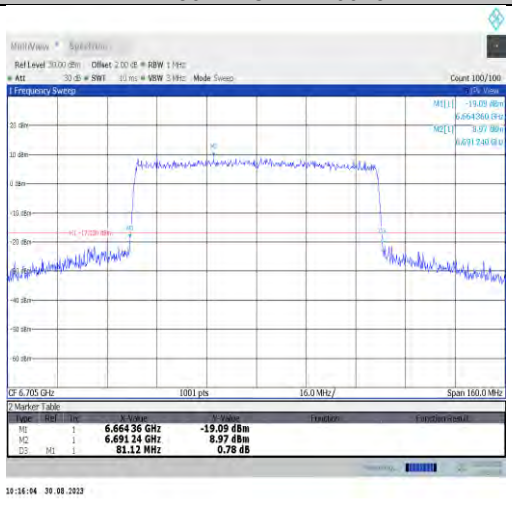

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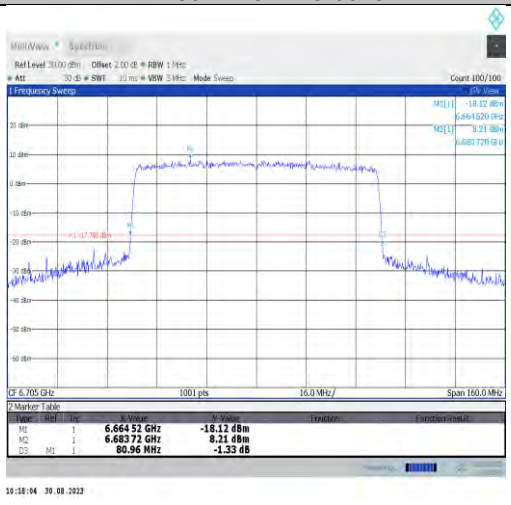

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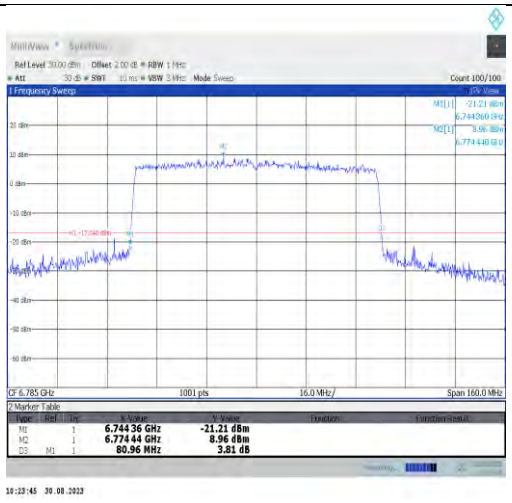

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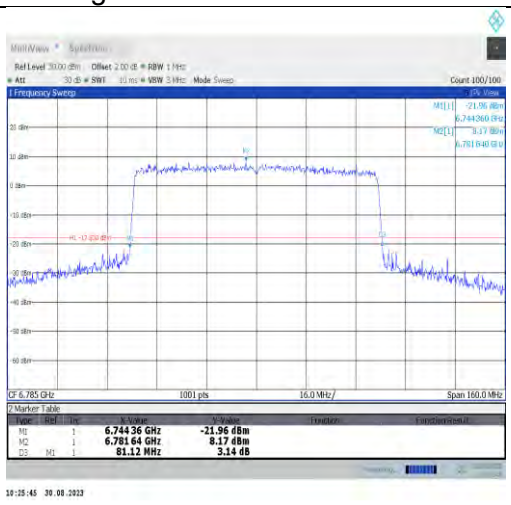

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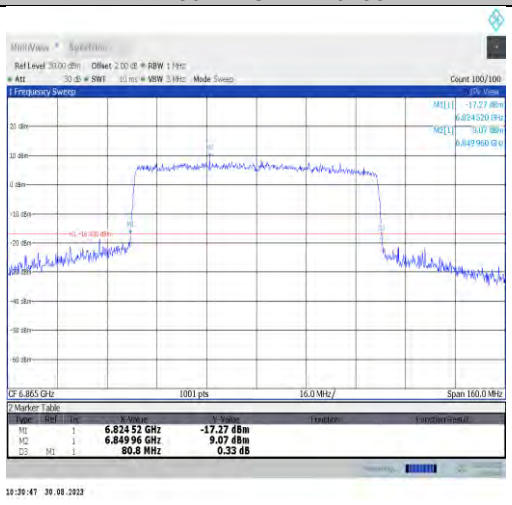

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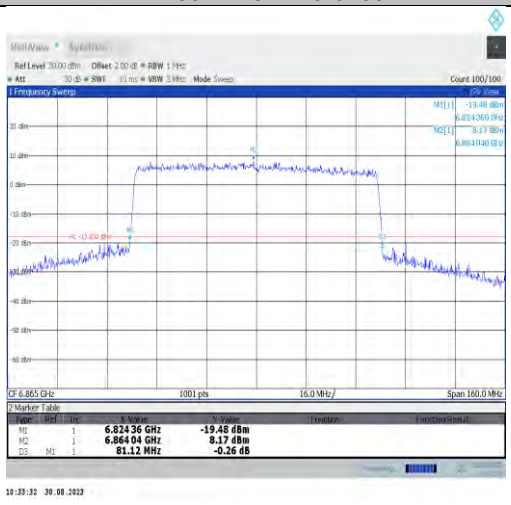

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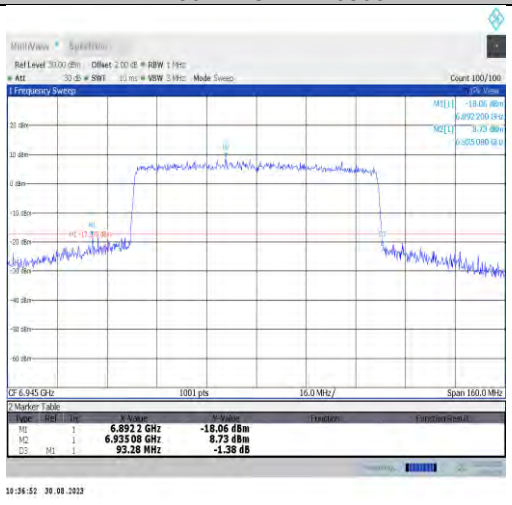

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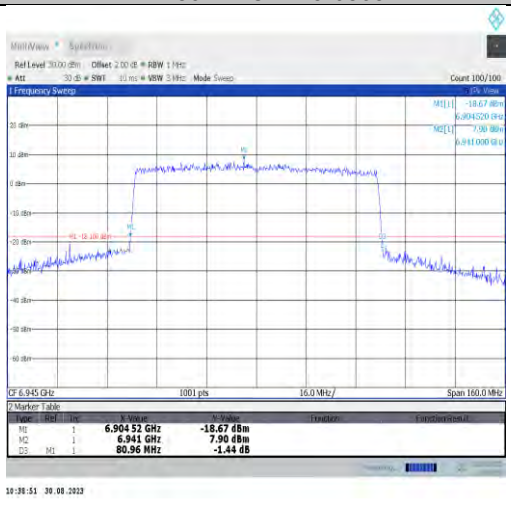

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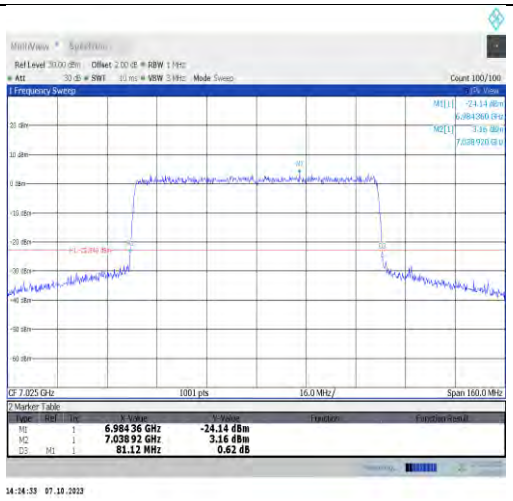	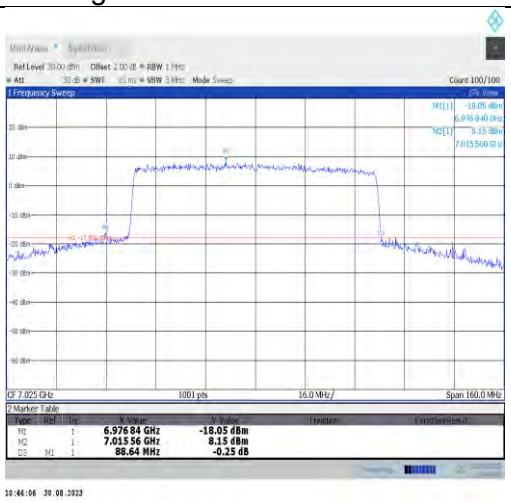
11ax80MIMO-Ant7-7025	11ax80MIMO-Ant9-7025

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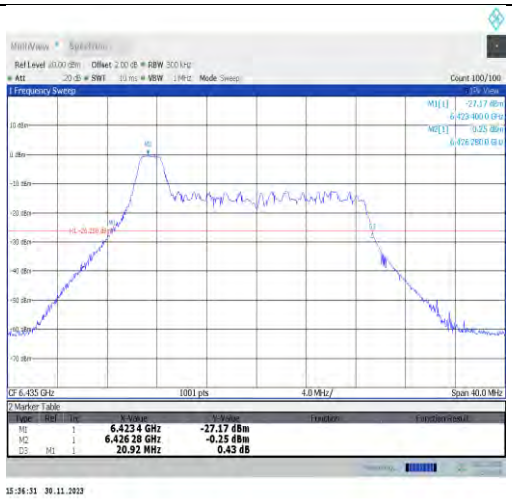
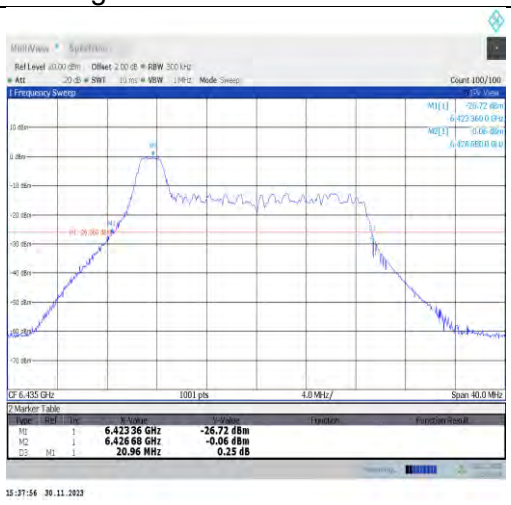


11ax20MIMO-Ant7-6435-26Tone-RU0



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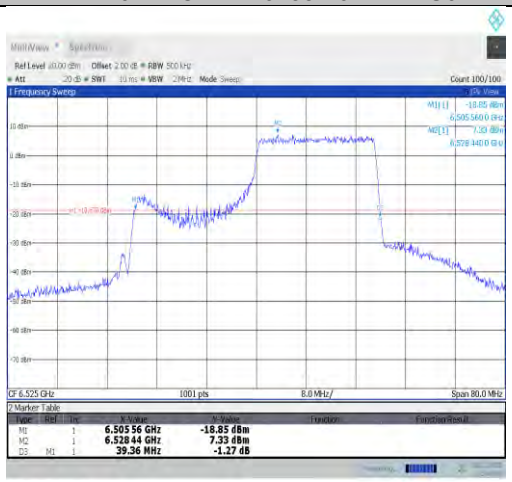

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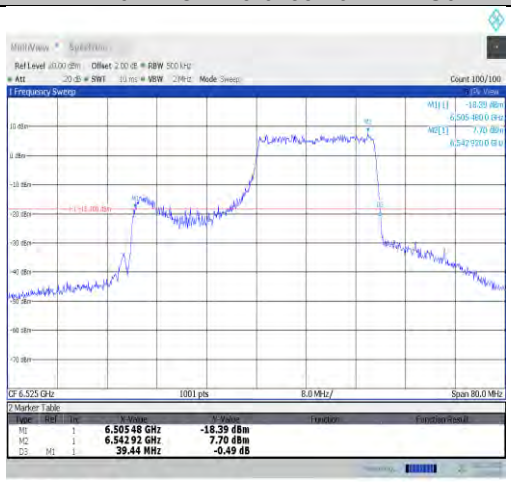

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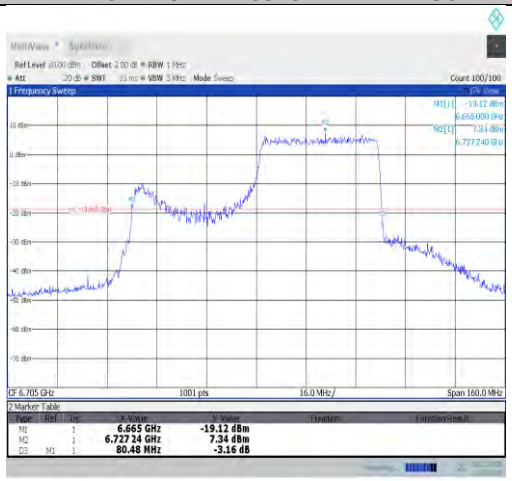
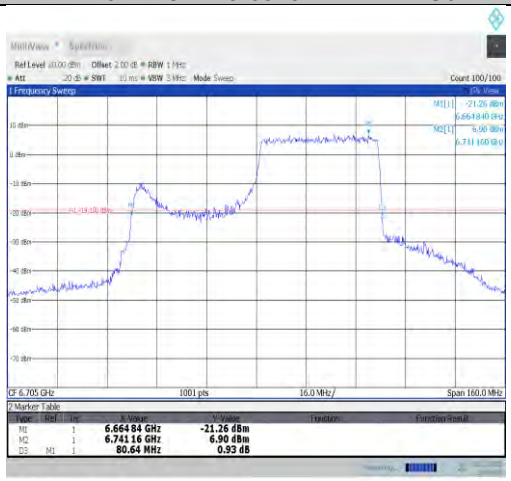


11ax80MIMO-Ant7-6705-484Tone-RU66



11ax80MIMO-Ant9-6705-484Tone-RU66

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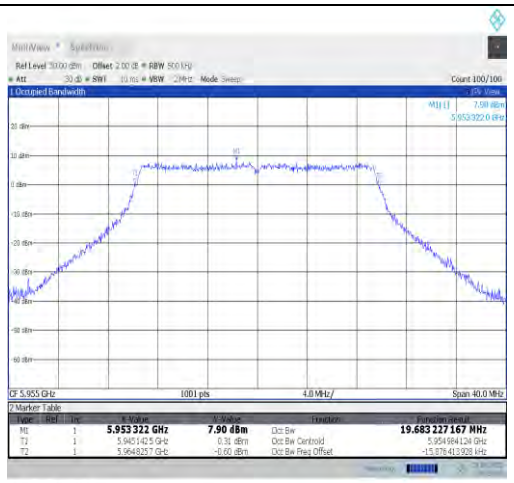
Occupied channel bandwidth

Test Result

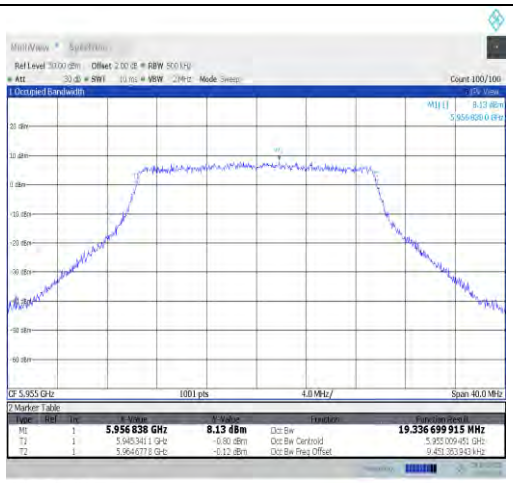
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11ax20MIMO	Ant7	5955	19.683	5945.1425	5964.8257	For Report Purpose
11ax20MIMO	Ant9	5955	19.337	5945.3411	5964.6778	
11ax20MIMO	Ant7	6175	19.408	6165.2999	6184.7075	
11ax20MIMO	Ant9	6175	19.344	6165.2946	6184.6386	
11ax20MIMO	Ant7	6415	19.423	6405.2819	6424.7046	
11ax20MIMO	Ant9	6415	19.38	6405.2801	6424.6601	
11ax20MIMO	Ant7	6435	19.529	6425.2412	6444.7700	
11ax20MIMO	Ant9	6435	19.313	6425.3373	6444.6506	
11ax20MIMO	Ant7	6475	19.399	6465.2913	6484.6907	
11ax20MIMO	Ant9	6475	19.484	6465.2468	6484.7307	
11ax20MIMO	Ant7	6515	19.419	6505.2858	6524.7048	
11ax20MIMO	Ant9	6515	19.389	6505.2768	6524.6656	
11ax20MIMO	Ant7	6535	19.437	6525.2538	6544.6904	
11ax20MIMO	Ant9	6535	19.316	6525.3184	6544.6341	
11ax20MIMO	Ant7	6695	19.447	6685.2550	6704.7019	
11ax20MIMO	Ant9	6695	19.331	6685.2962	6704.6271	
11ax20MIMO	Ant7	6855	19.453	6845.2266	6864.6794	
11ax20MIMO	Ant9	6855	19.3	6845.3082	6864.6078	
11ax20MIMO	Ant7	6875	19.453	6865.2355	6884.6889	
11ax20MIMO	Ant9	6875	19.359	6865.2850	6884.6437	
11ax20MIMO	Ant7	6895	19.432	6885.2768	6904.7091	
11ax20MIMO	Ant9	6895	19.33	6885.2904	6904.6207	
11ax20MIMO	Ant7	6995	19.405	6985.2723	7004.6777	
11ax20MIMO	Ant9	6995	19.332	6985.3002	7004.6324	
11ax20MIMO	Ant7	7115	19.423	7105.2566	7124.6798	
11ax20MIMO	Ant9	7115	19.432	7105.2602	7124.6926	
11ax40MIMO	Ant7	5965	37.732	5946.1339	5983.8659	
11ax40MIMO	Ant9	5965	37.63	5946.1933	5983.8237	
11ax40MIMO	Ant7	6165	37.693	6146.1282	6183.8214	
11ax40MIMO	Ant9	6165	37.606	6146.1885	6183.7940	
11ax40MIMO	Ant7	6405	37.675	6386.1419	6423.8169	
11ax40MIMO	Ant9	6405	37.556	6386.1949	6423.7506	
11ax40MIMO	Ant7	6445	37.668	6426.1580	6463.8256	
11ax40MIMO	Ant9	6445	37.564	6426.2162	6463.7799	
11ax40MIMO	Ant7	6485	37.591	6466.1936	6503.7845	
11ax40MIMO	Ant9	6485	37.588	6466.2194	6503.8076	
11ax40MIMO	Ant7	6525	37.635	6506.1792	6543.8137	
11ax40MIMO	Ant9	6525	37.566	6506.2236	6543.7892	
11ax40MIMO	Ant7	6565	37.687	6546.1252	6583.8122	
11ax40MIMO	Ant9	6565	37.639	6546.1543	6583.7929	
11ax40MIMO	Ant7	6685	37.698	6666.1109	6703.8088	
11ax40MIMO	Ant9	6685	37.57	6666.1695	6703.7392	
11ax40MIMO	Ant7	6845	37.696	6826.1287	6863.8248	
11ax40MIMO	Ant9	6845	37.579	6826.1334	6863.7124	
11ax40MIMO	Ant7	6885	37.721	6866.1424	6903.8633	
11ax40MIMO	Ant9	6885	37.581	6866.1639	6903.7450	
11ax40MIMO	Ant7	6925	37.565	6906.1580	6943.7231	
11ax40MIMO	Ant9	6925	37.553	6906.1651	6943.7176	
11ax40MIMO	Ant7	6965	37.553	6946.1881	6983.7414	
11ax40MIMO	Ant9	6965	37.574	6946.1423	6983.7159	

11ax40MIMO	Ant7	7085	37.606	7066.1164	7103.7220	
11ax40MIMO	Ant9	7085	37.617	7066.1409	7103.7576	
11ax80MIMO	Ant7	5985	77.933	5945.9302	6023.8633	
11ax80MIMO	Ant9	5985	77.828	5945.9974	6023.8256	
11ax80MIMO	Ant7	6145	77.772	6106.0977	6183.8699	
11ax80MIMO	Ant9	6145	77.855	6106.0313	6183.8859	
11ax80MIMO	Ant7	6385	77.908	6345.9952	6423.9036	
11ax80MIMO	Ant9	6385	77.969	6345.9807	6423.9500	
11ax80MIMO	Ant7	6465	77.809	6426.0830	6503.8915	
11ax80MIMO	Ant9	6465	77.698	6426.1243	6503.8228	
11ax80MIMO	Ant7	6545	77.668	6506.1778	6583.8463	
11ax80MIMO	Ant9	6545	77.62	6506.1812	6583.8016	
11ax80MIMO	Ant7	6625	77.575	6586.1373	6663.7128	
11ax80MIMO	Ant9	6625	77.52	6586.1768	6663.6968	
11ax80MIMO	Ant7	6705	77.494	6666.1910	6743.6846	
11ax80MIMO	Ant9	6705	77.601	6666.1355	6743.7366	
11ax80MIMO	Ant7	6785	77.481	6746.0984	6823.5793	
11ax80MIMO	Ant9	6785	77.697	6745.9906	6823.6877	
11ax80MIMO	Ant7	6865	77.638	6826.0300	6903.6684	
11ax80MIMO	Ant9	6865	77.607	6826.0160	6903.6233	
11ax80MIMO	Ant7	6945	77.709	6906.0176	6983.7270	
11ax80MIMO	Ant9	6945	77.731	6905.9892	6983.7203	
11ax80MIMO	Ant7	7025	77.811	6985.9492	7063.7600	
11ax80MIMO	Ant9	7025	77.975	6985.8114	7063.7867	

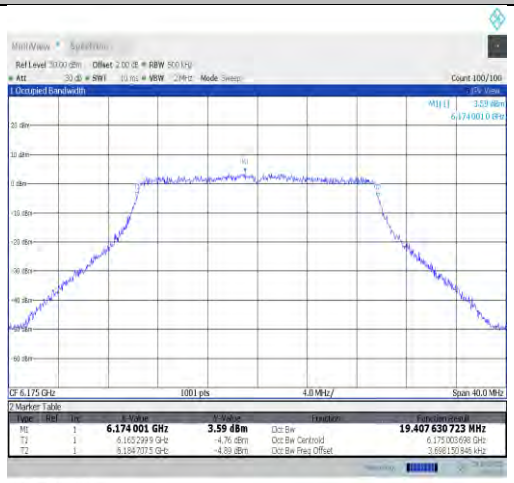
Test Graphs



11ax20MIMO-Ant7-5955-PASS



11ax20MIMO-Ant9-5955-PASS



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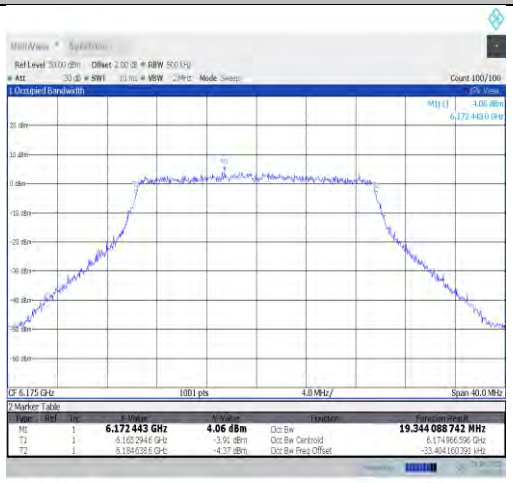
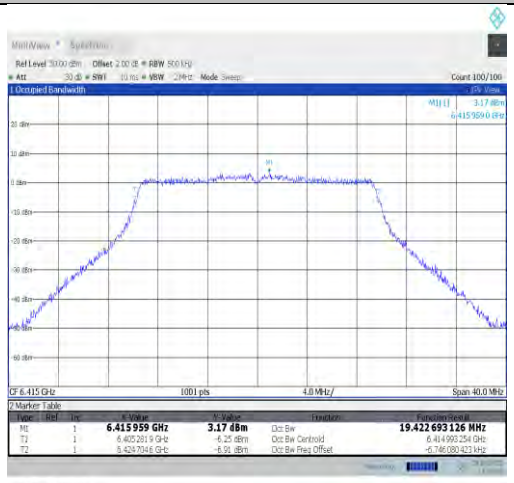
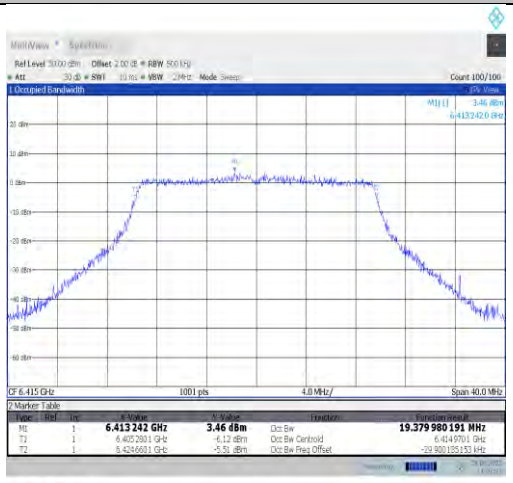
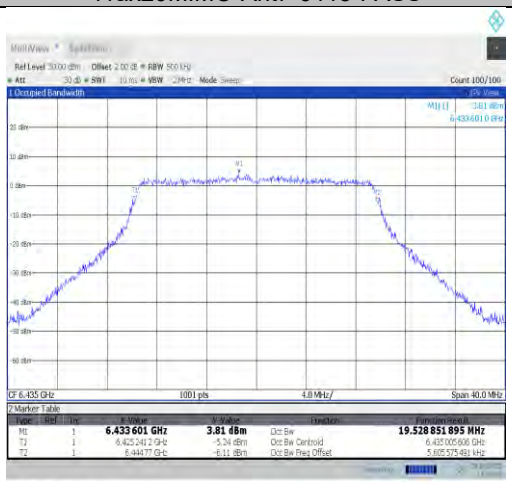
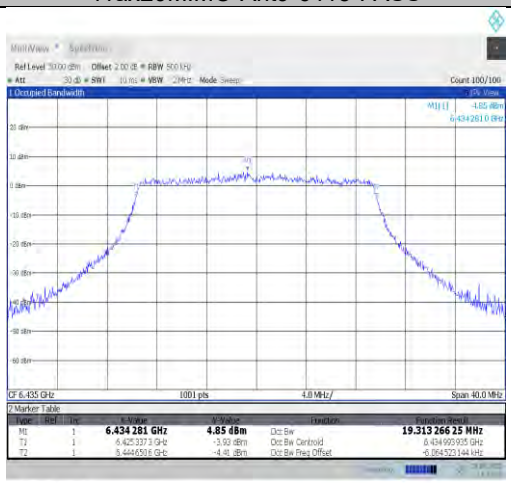


11ax20MIMO-Ant9-6175-PASS





11ax20MIMO-Ant7-6415-PASS	11ax20MIMO-Ant9-6415-PASS
	
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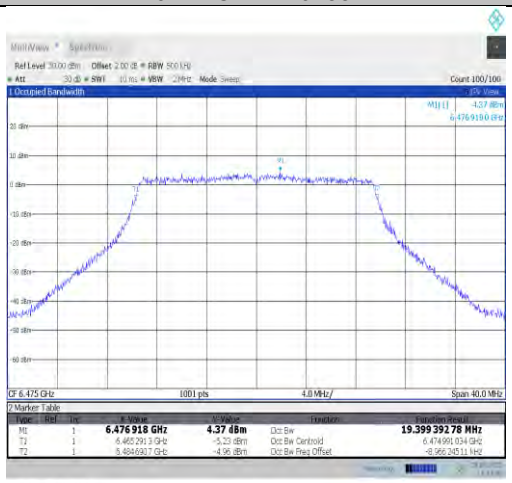	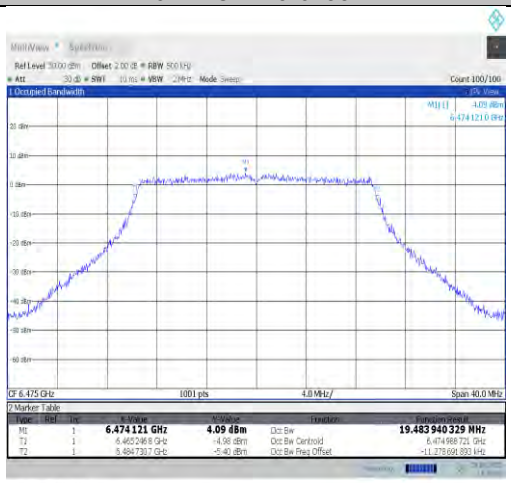
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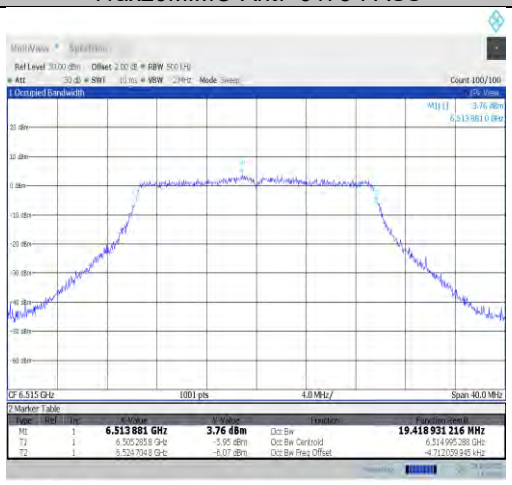	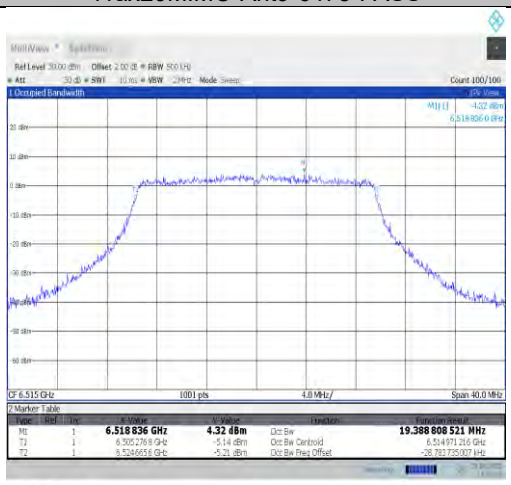
11ax20MIMO-Ant7-6515-PASS	11ax20MIMO-Ant9-6515-PASS

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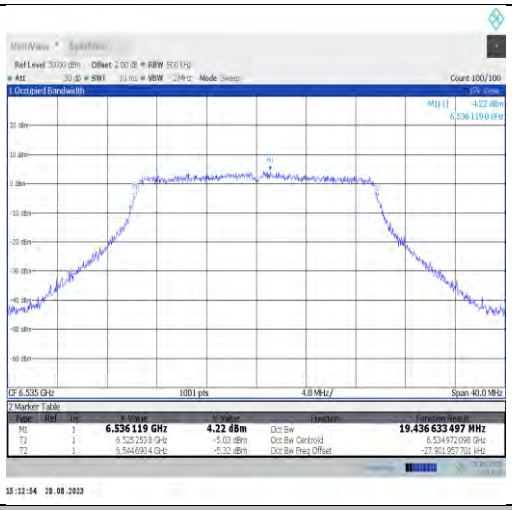

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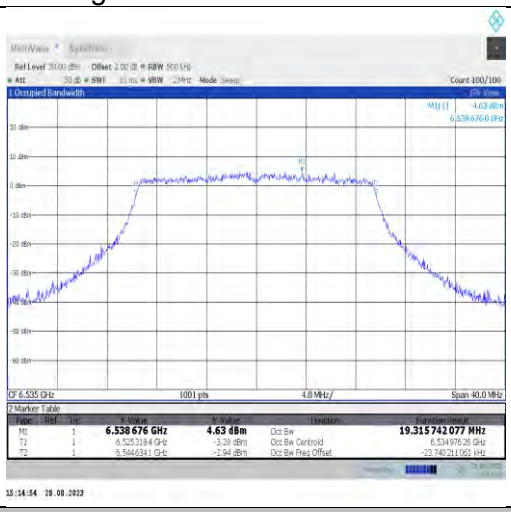

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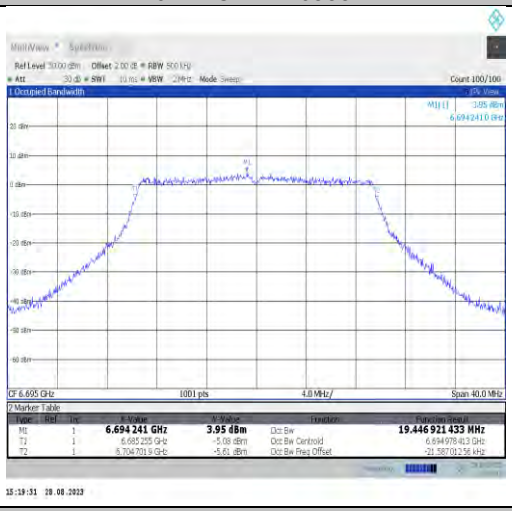

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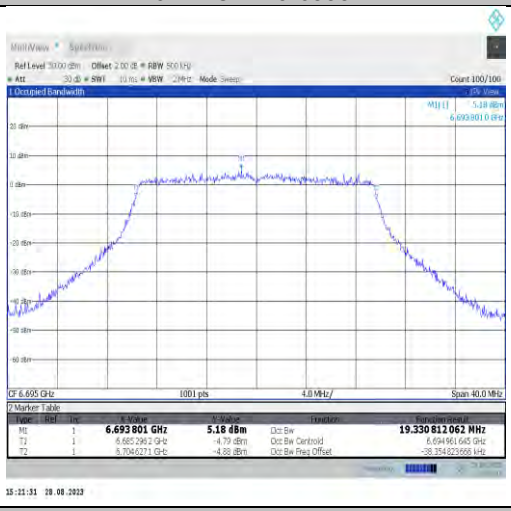

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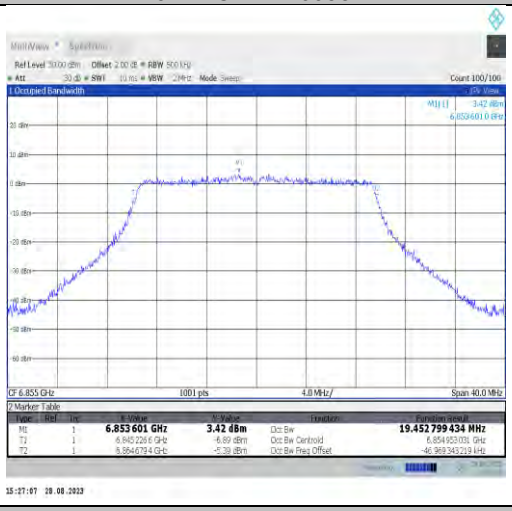
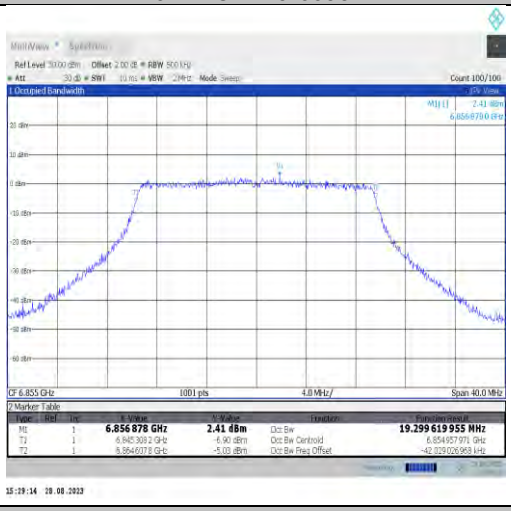
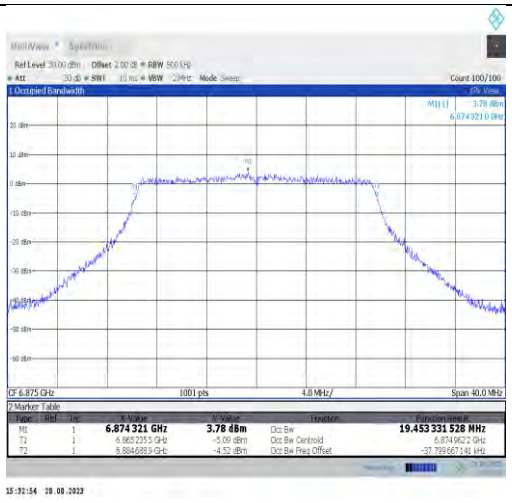


11ax20MIMO-Ant7-6855-PASS

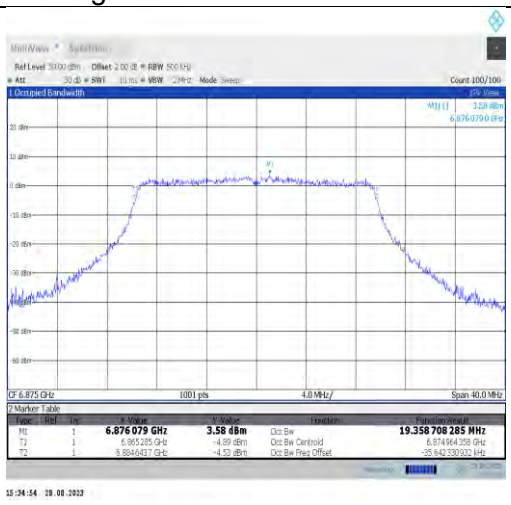


11ax20MIMO-Ant9-6855-PASS

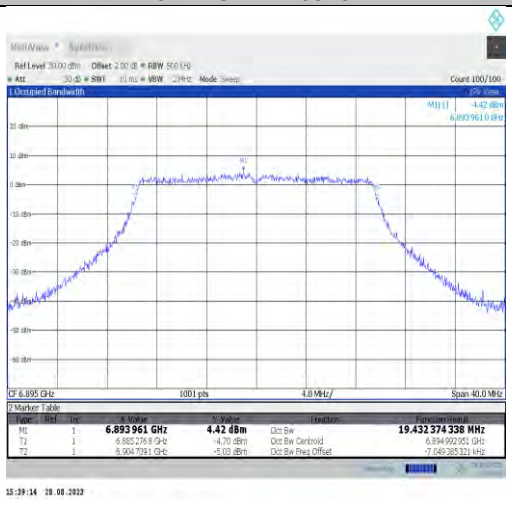
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com



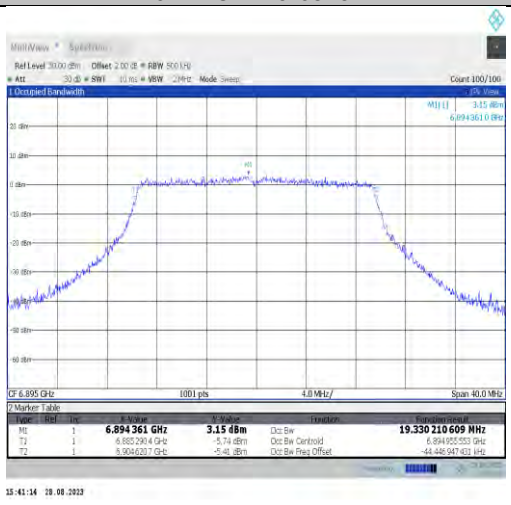
11ax20MIMO-Ant7-6875-PASS



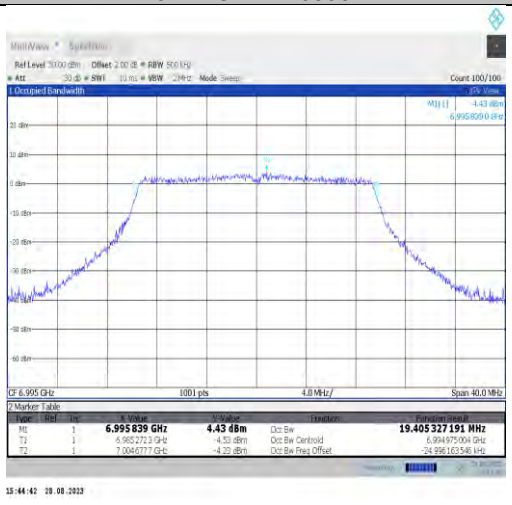
11ax20MIMO-Ant9-6875-PASS



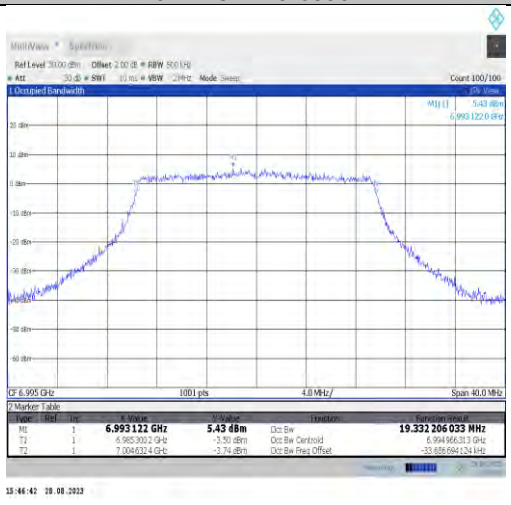
11ax20MIMO-Ant7-6895-PASS



11ax20MIMO-Ant9-6895-PASS



11ax20MIMO-Ant7-6995-PASS



11ax20MIMO-Ant9-6995-PASS

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
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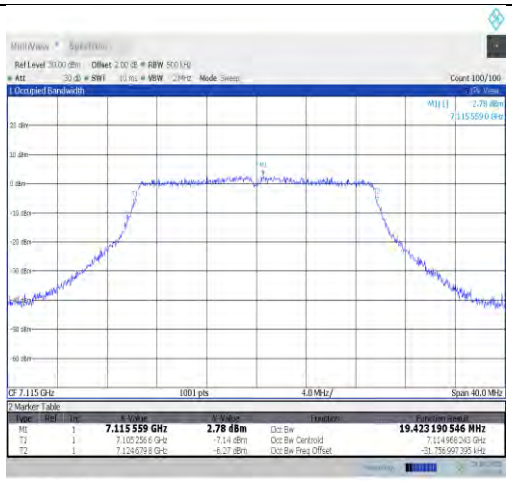
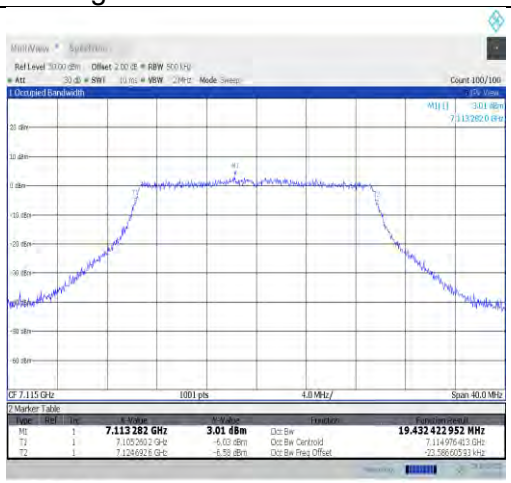
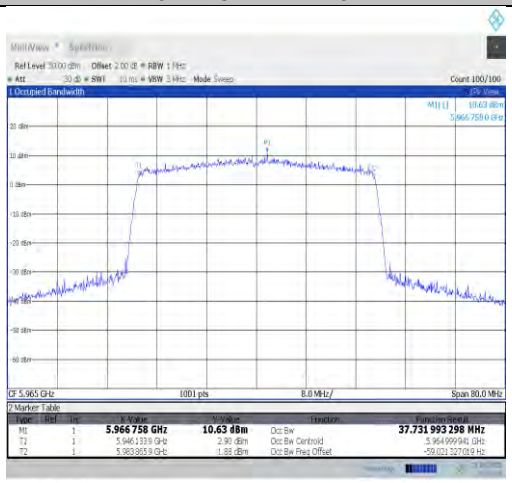


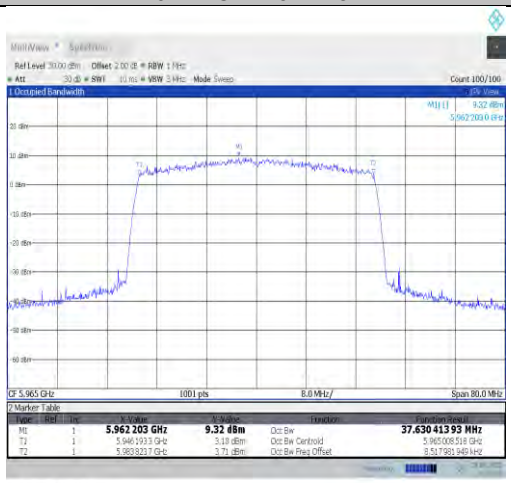
11ax20MIMO-Ant7-7115-PASS



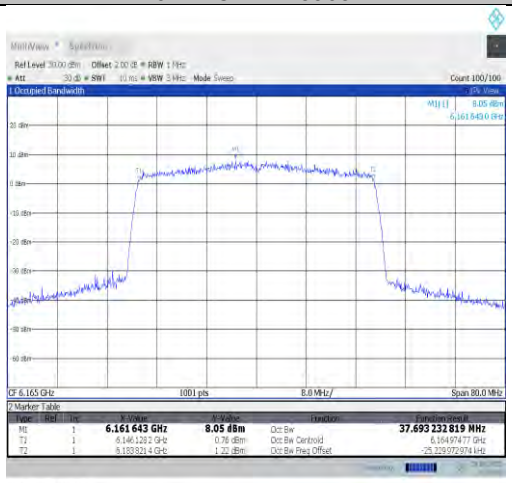
11ax20MIMO-Ant9-7115-PASS



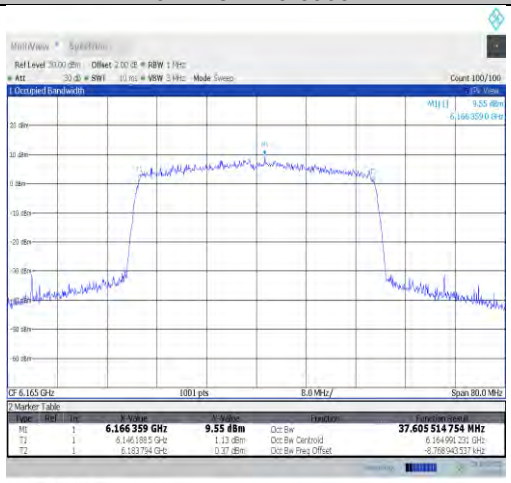
11ax40MIMO-Ant7-5965-PASS



11ax40MIMO-Ant9-5965-PASS



11ax40MIMO-Ant7-6165-PASS



11ax40MIMO-Ant9-6165-PASS

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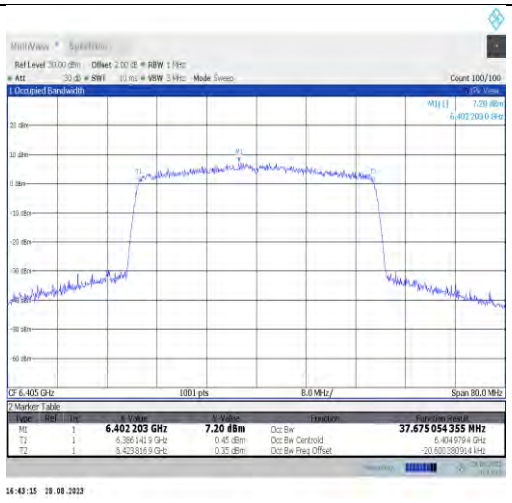
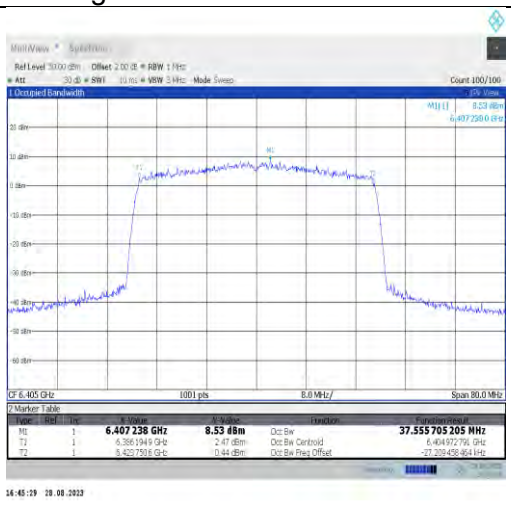


11ax40MIMO-Ant7-6405-PASS



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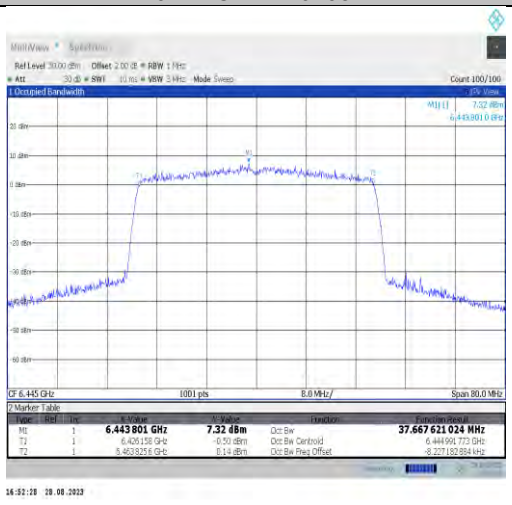

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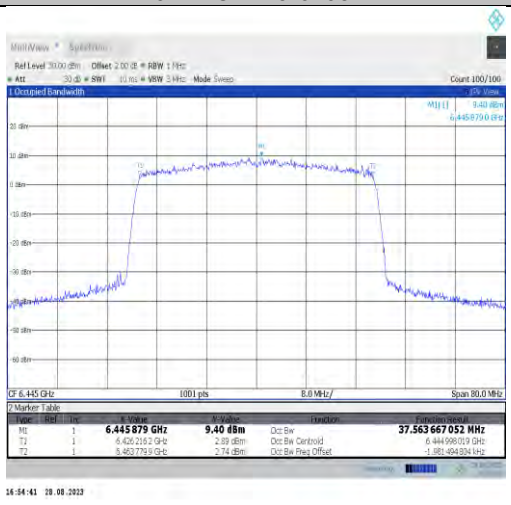

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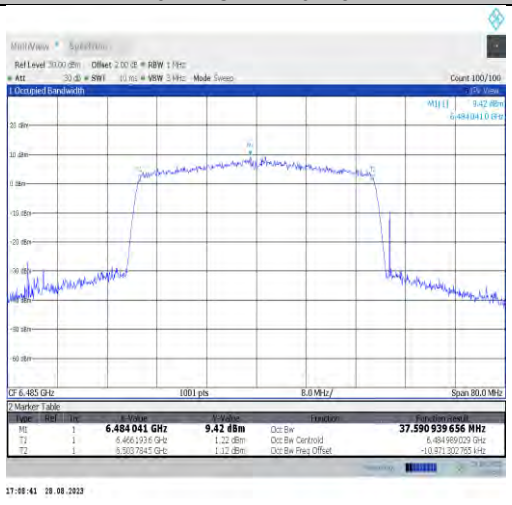
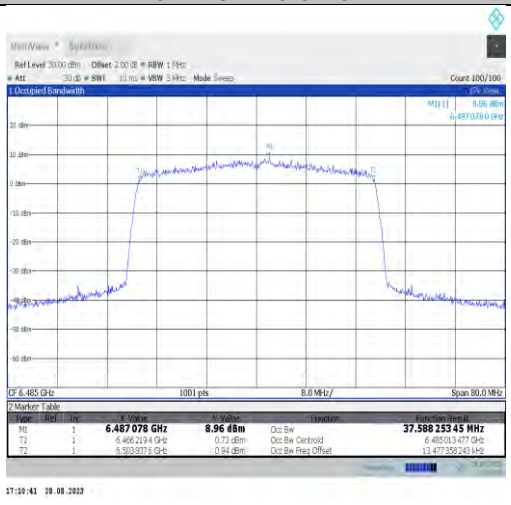


11ax40MIMO-Ant7-6485-PASS



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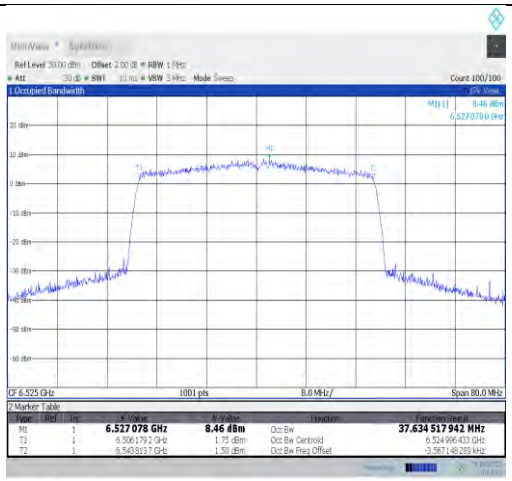

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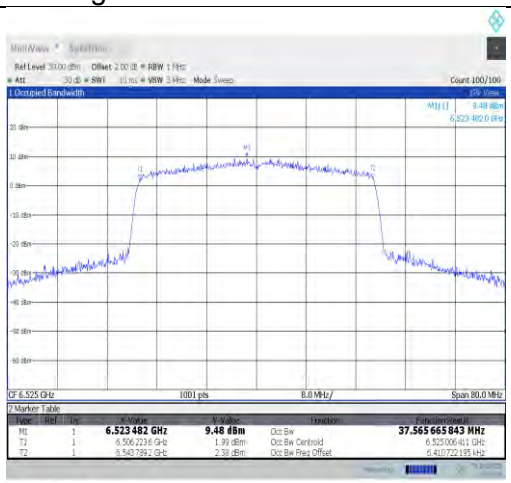

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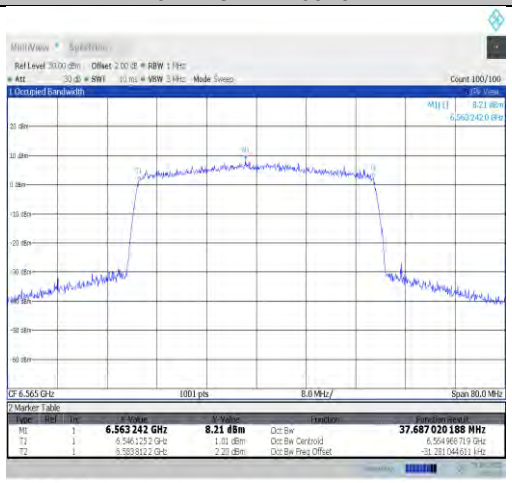

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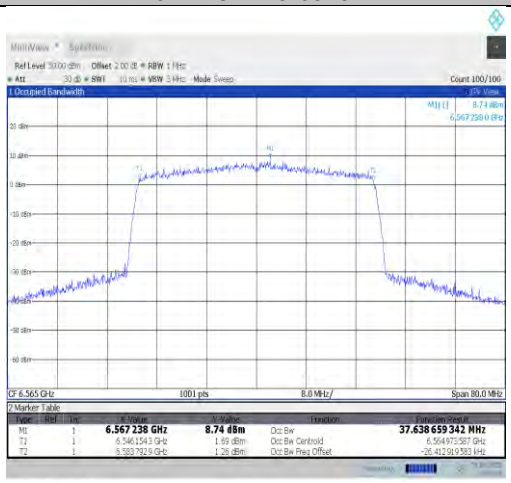

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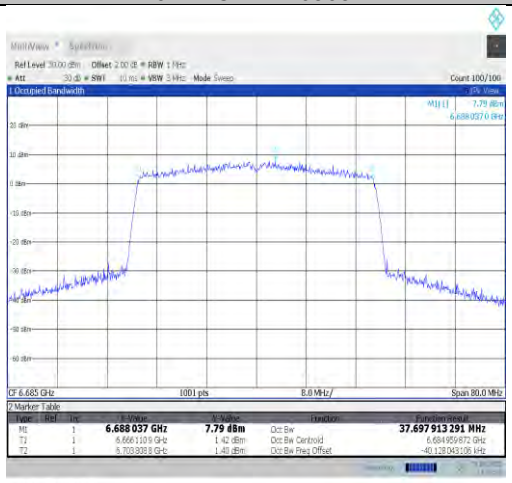

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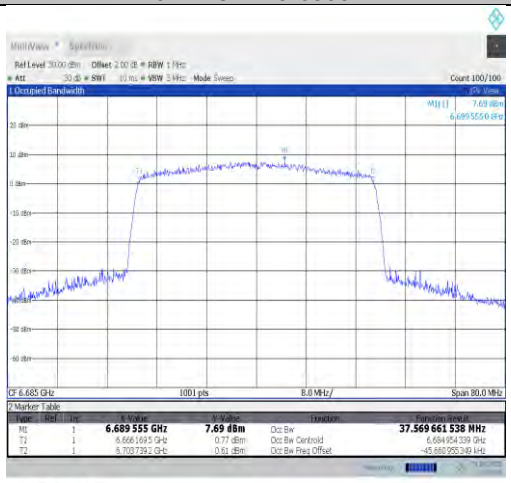

11ax40MIMO-Ant9-6685-PASS

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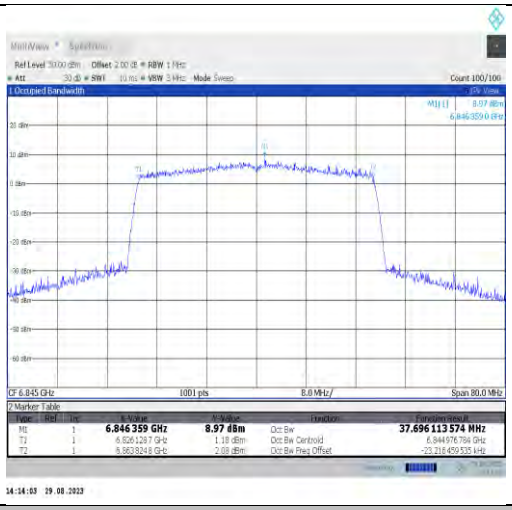

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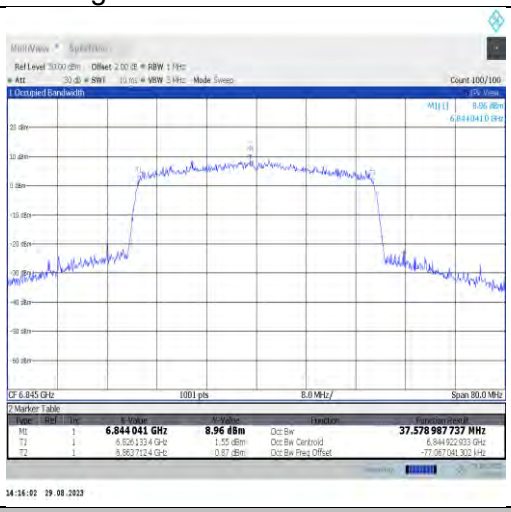

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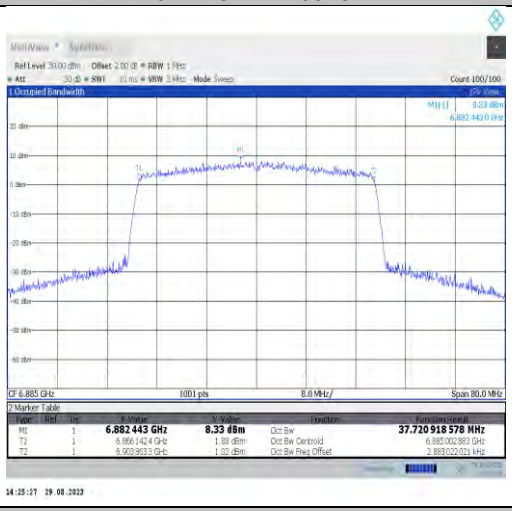
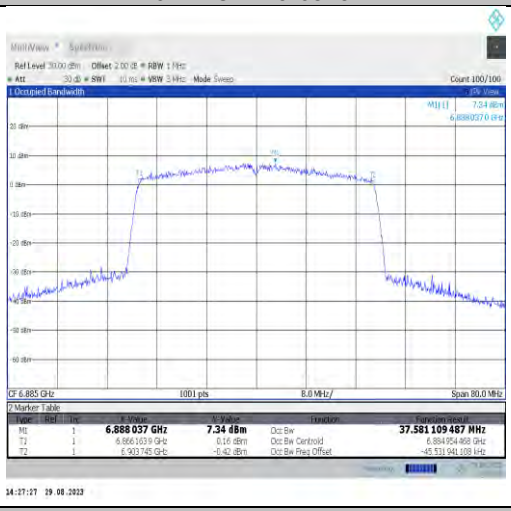


11ax40MIMO-Ant7-6885-PASS



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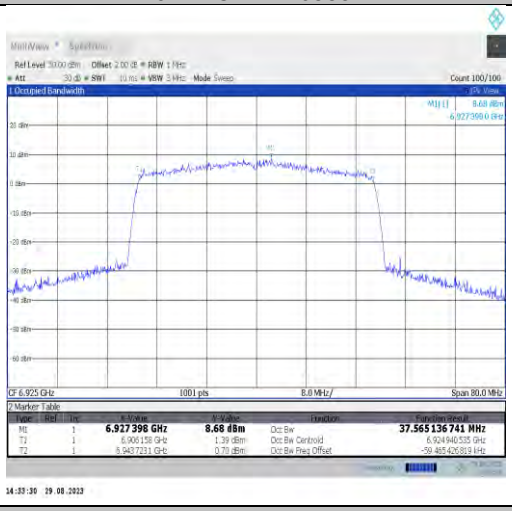

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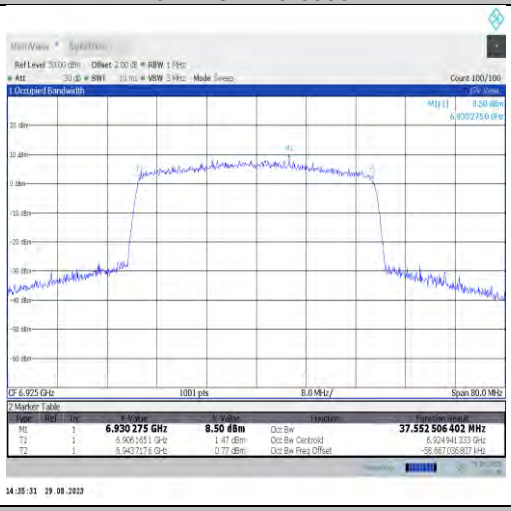

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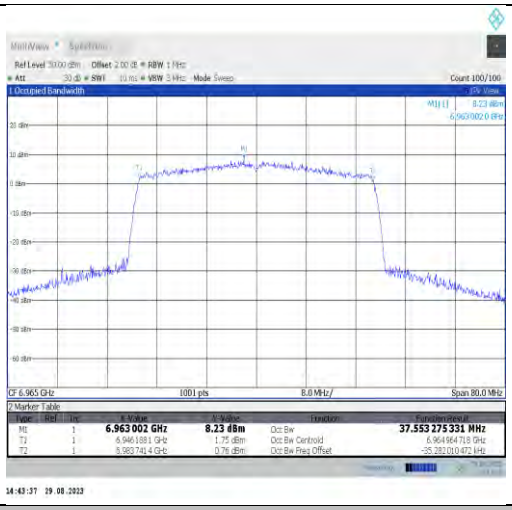

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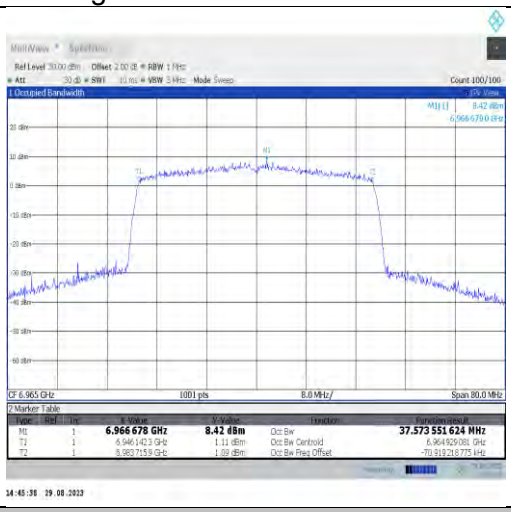

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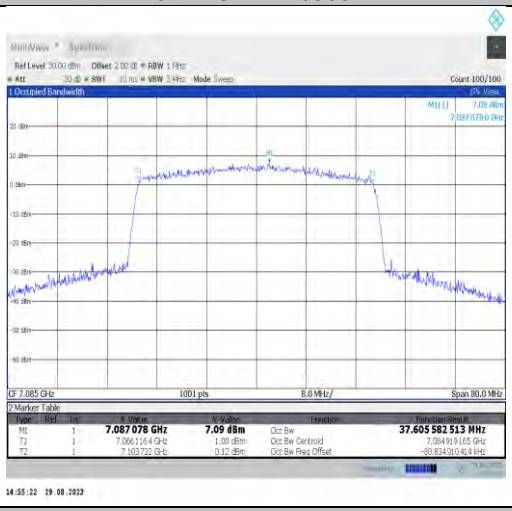

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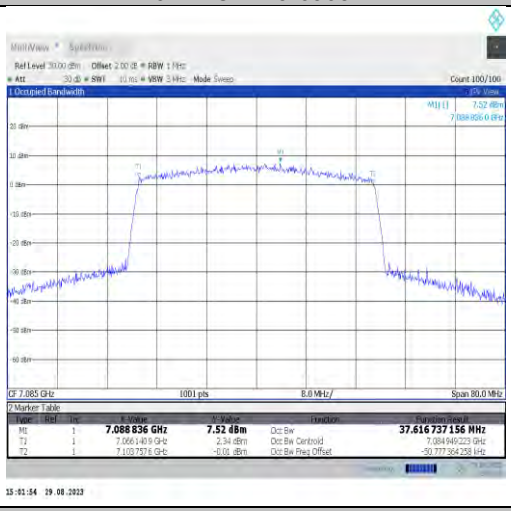

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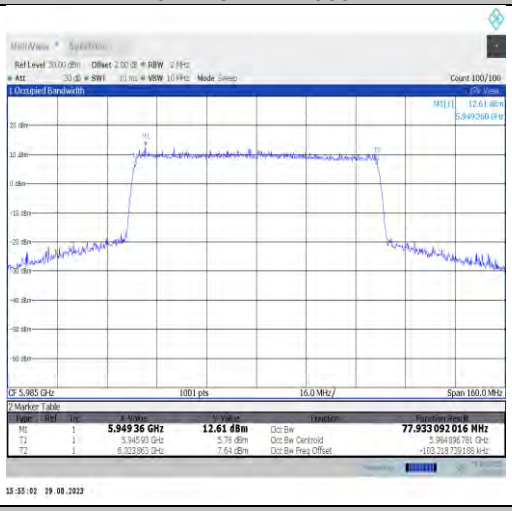

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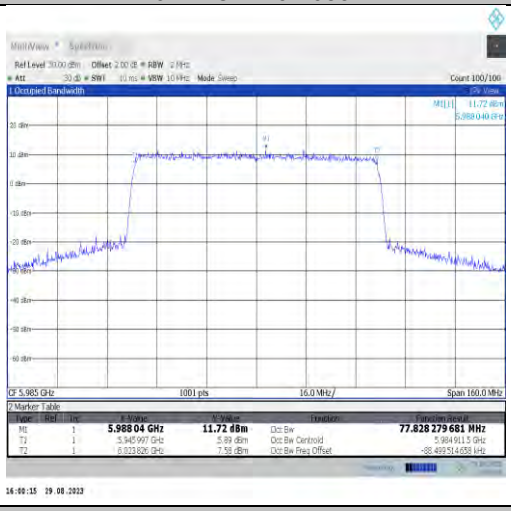

11ax80MIMO-Ant9-5985-PASS

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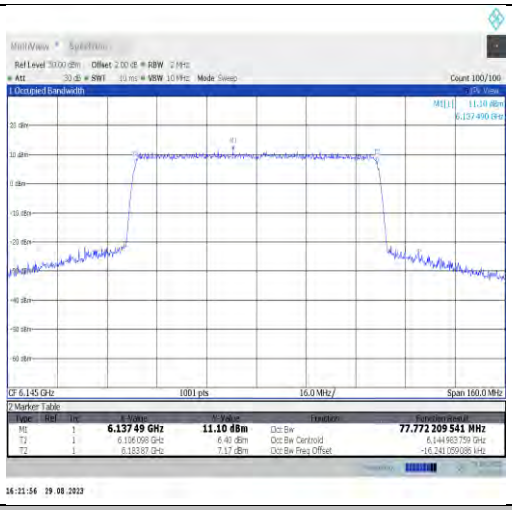

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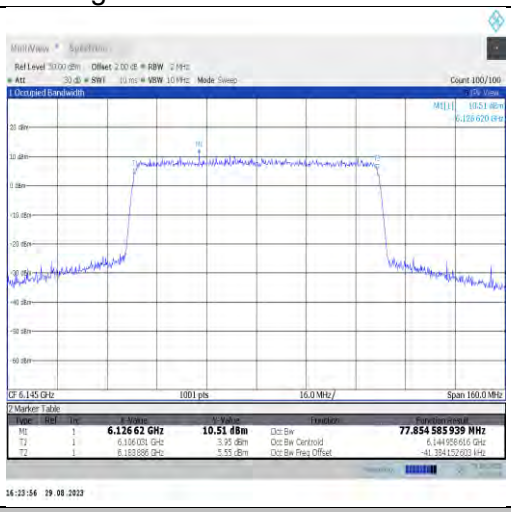

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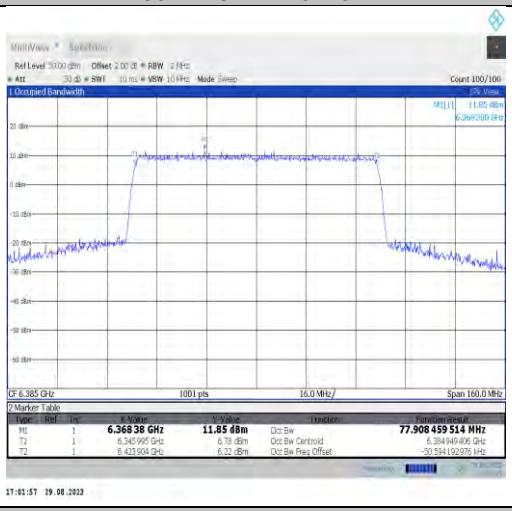

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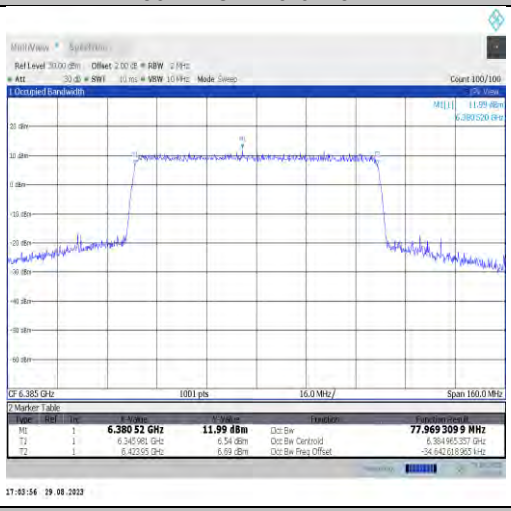

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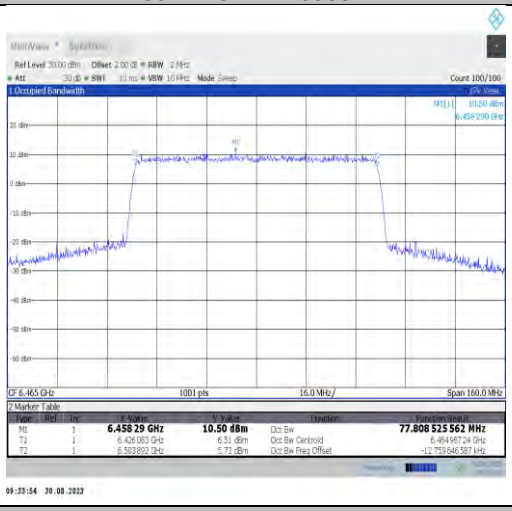

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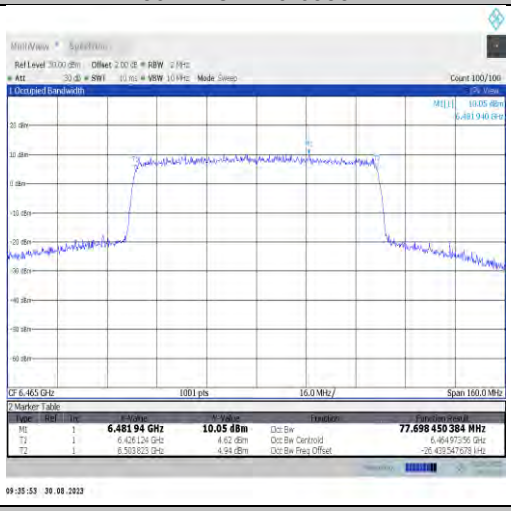

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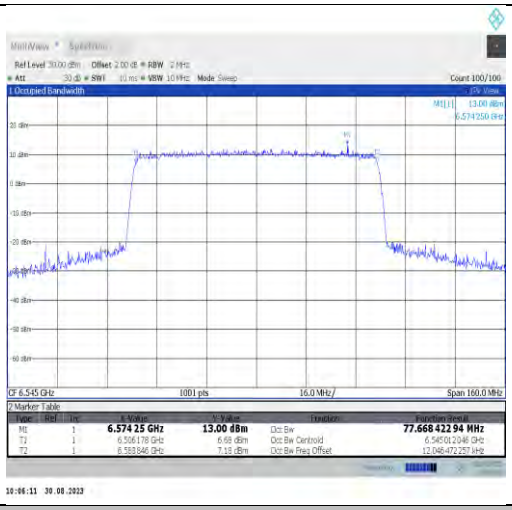

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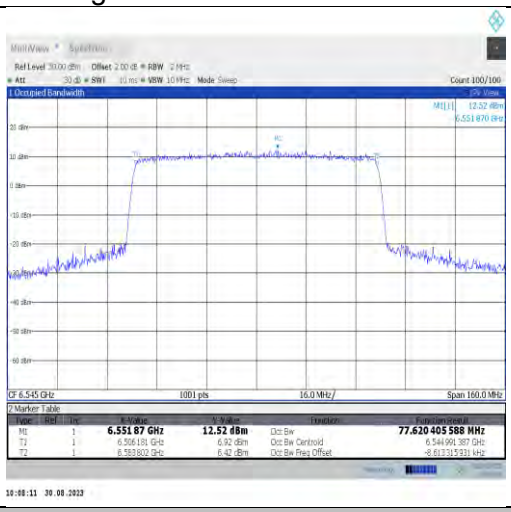

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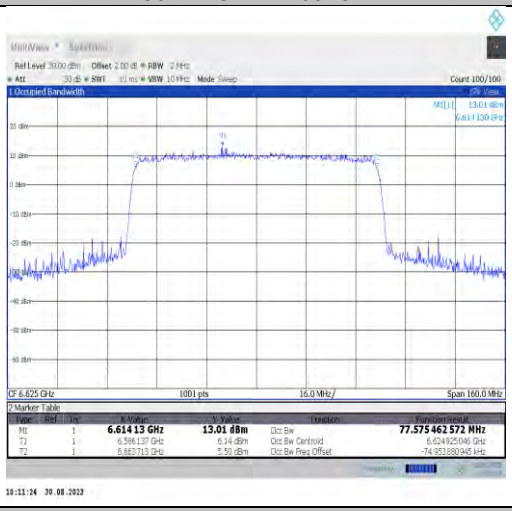

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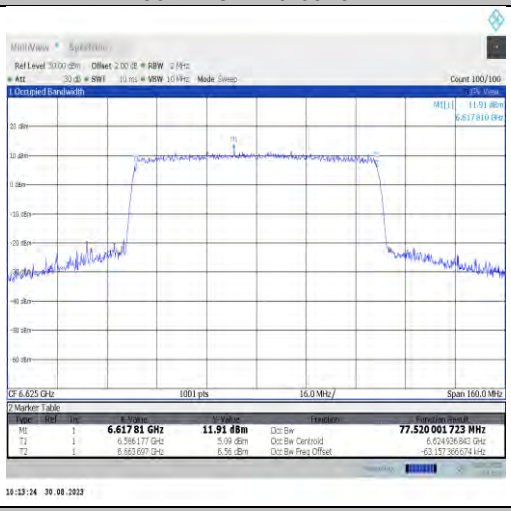

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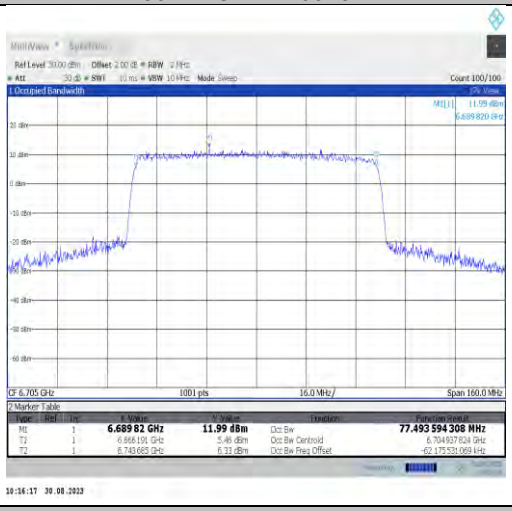

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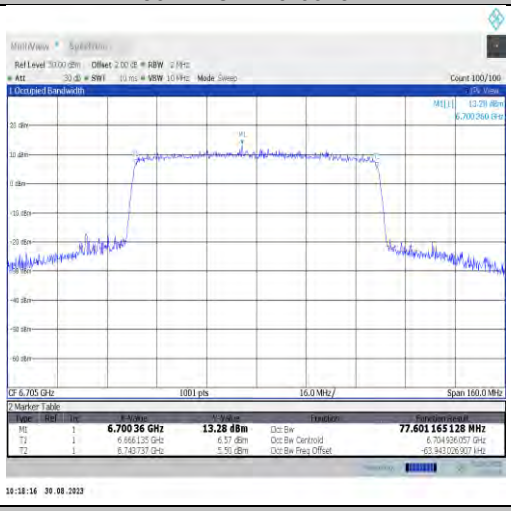

11ax80MIMO-Ant9-6705-PASS

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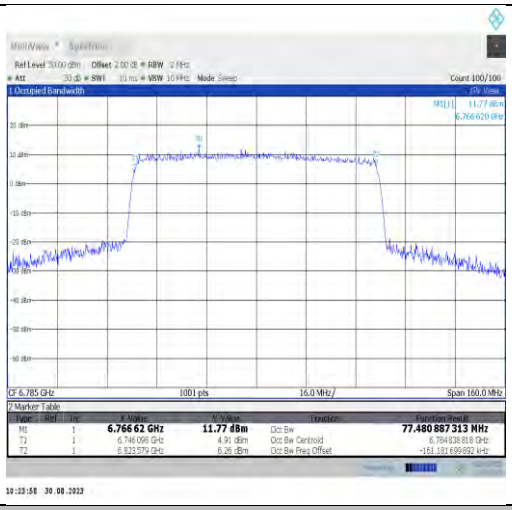
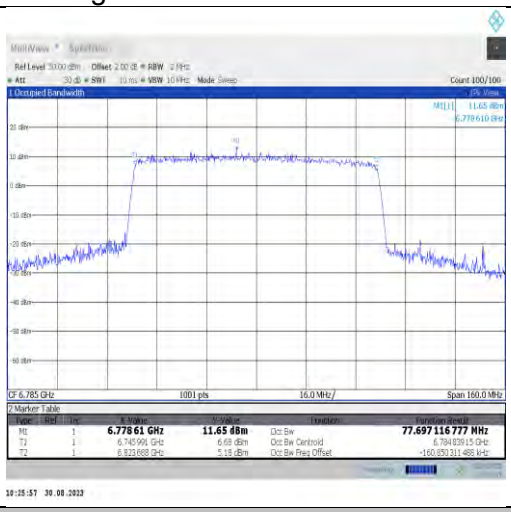
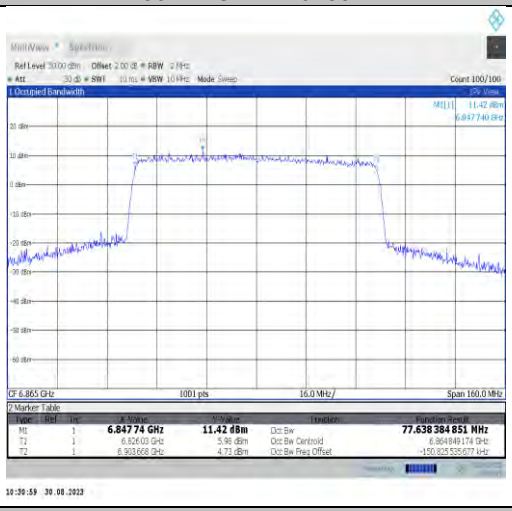


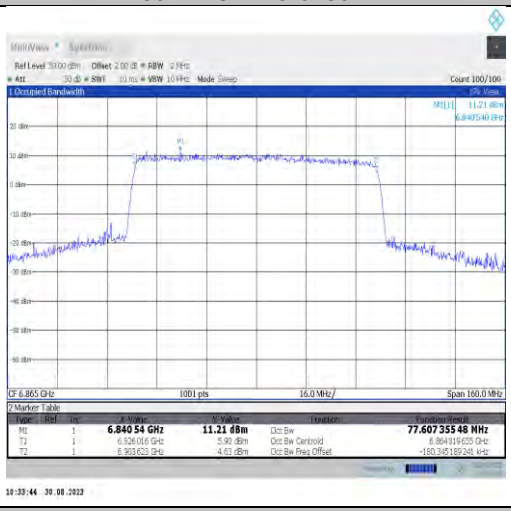
11ax80MIMO-Ant7-6785-PASS



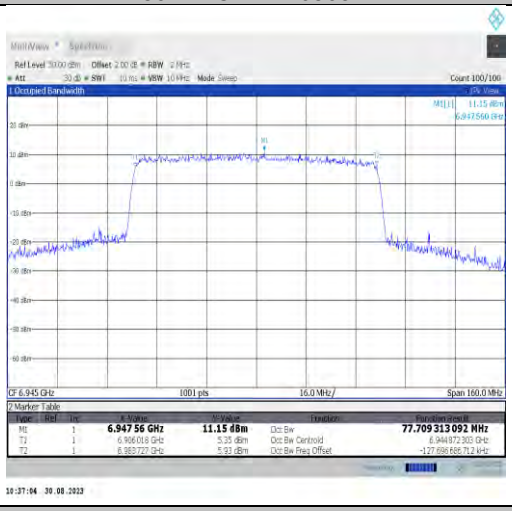
11ax80MIMO-Ant9-6785-PASS



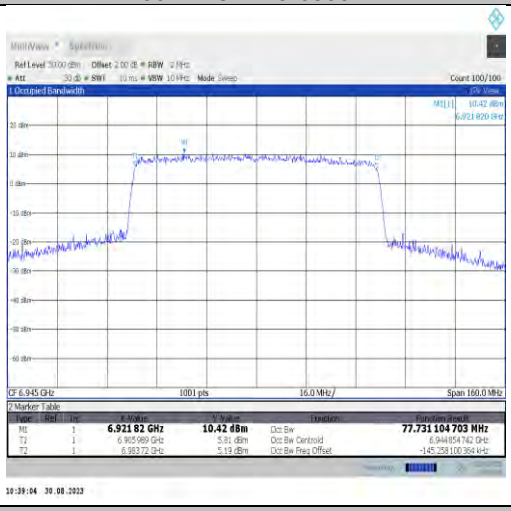
11ax80MIMO-Ant7-6865-PASS



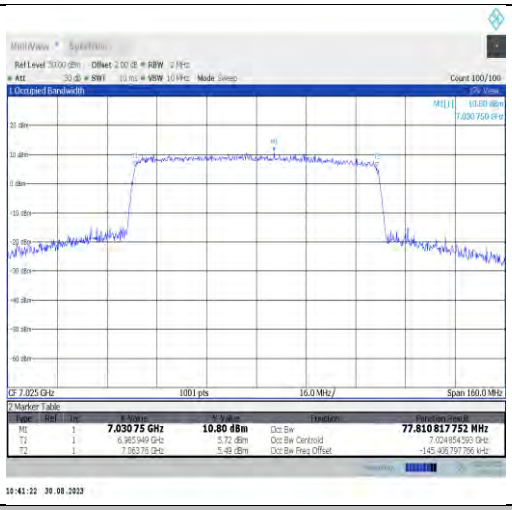
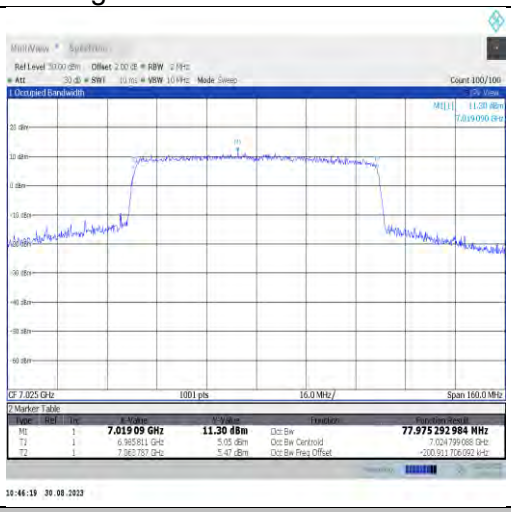
11ax80MIMO-Ant9-6865-PASS



11ax80MIMO-Ant7-6945-PASS



11ax80MIMO-Ant9-6945-PASS

	
11ax80MIMO-Ant7-7025-PASS	11ax80MIMO-Ant9-7025-PASS

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Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle* [%]	Verdict
11ax20MIMO	Ant7	5955	20.00	20.00	100.00	For Report Purpose
11ax20MIMO	Ant9	5955	20.00	20.00	100.00	
11ax40MIMO	Ant7	5965	20.00	20.00	100.00	
11ax40MIMO	Ant9	5965	20.00	20.00	100.00	
11ax80MIMO	Ant7	5985	20.00	20.00	100.00	
11ax80MIMO	Ant9	5985	20.00	20.00	100.00	

Note:

Radiated Emission Average VBW Setting:
*Duty cycle > 98% VBW setting=10Hz

Test Result for AX Part RU

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Verdict
11ax20MIMO	Ant7	5955	26Tone	RU0	5.14	5.18	99.23	For Report Purpose
11ax20MIMO	Ant7	5955	52Tone	RU37	5.06	5.10	99.22	
11ax20MIMO	Ant7	5955	106Tone	RU53	2.41	2.46	97.97	
11ax20MIMO	Ant9	5955	26Tone	RU0	5.13	5.17	99.23	
11ax20MIMO	Ant9	5955	52Tone	RU37	5.05	5.10	99.02	
11ax20MIMO	Ant9	5955	106Tone	RU53	2.41	2.46	97.97	
11ax40MIMO	Ant7	5965	242Tone	RU61	1.09	1.14	95.61	
11ax40MIMO	Ant9	5965	242Tone	RU61	1.09	1.14	95.61	
11ax80MIMO	Ant7	5985	484Tone	RU65	0.57	0.62	91.94	
11ax80MIMO	Ant9	5985	484Tone	RU65	0.57	0.62	91.94	

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11ax20 MIMO 26 Tone	5.14	5.18	99.23	0.19455	10Hz*
11ax20 MIMO 52 Tone	5.06	5.10	99.22	0.19763	10Hz*
11ax20 MIMO 106 Tone	2.41	2.46	97.97	0.41494	0.43kHz
11ax40 MIMO 242 Tone	1.09	1.14	95.61	0.91743	1kHz
11ax80 MIMO 484 Tone	0.57	0.62	91.94	1.75439	1.8kHz

*Duty cycle > 98% VBW setting=10Hz

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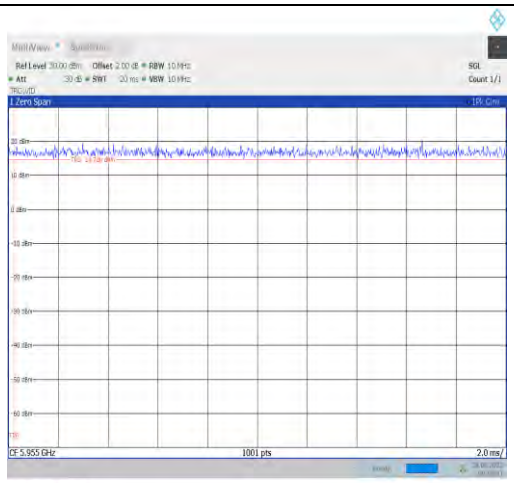
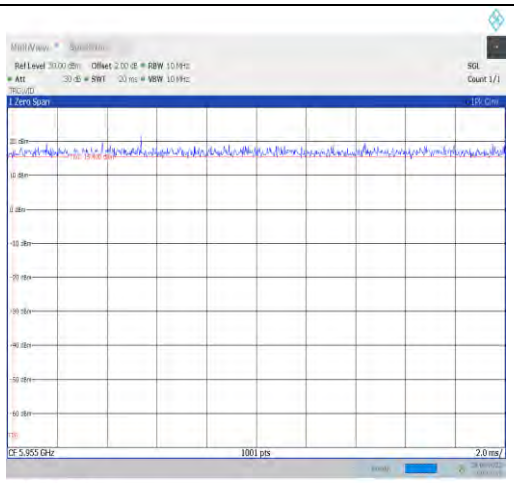
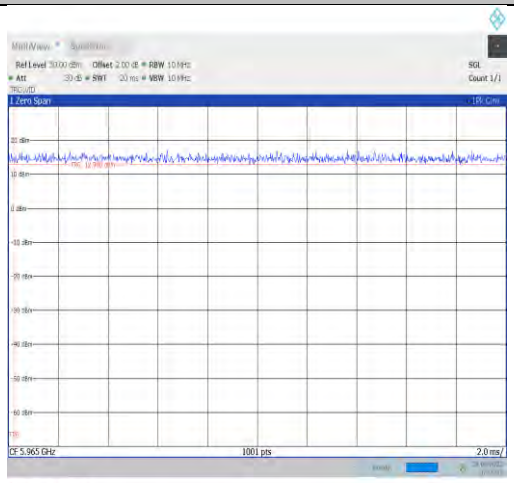
Test Graphs



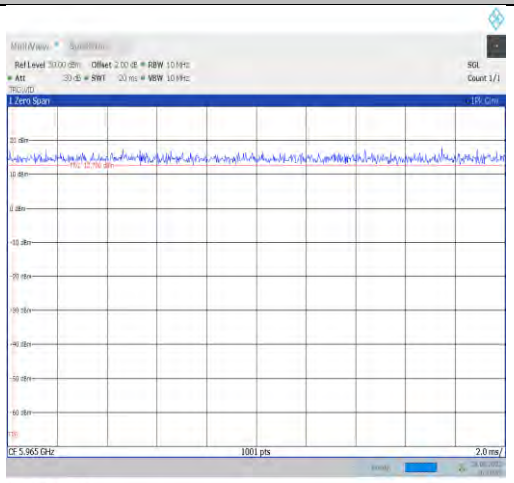
NTNV-11ax20MIMO-Ant7-5955



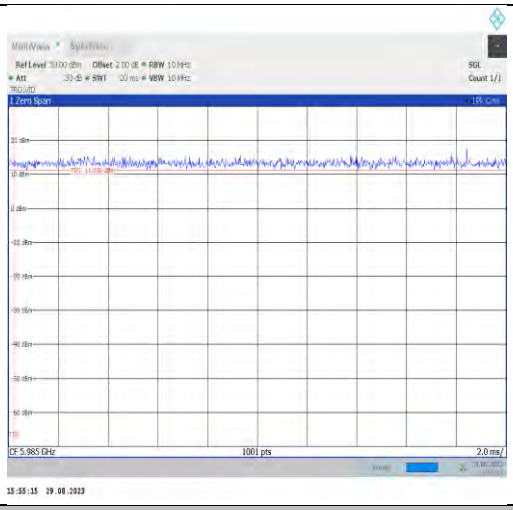
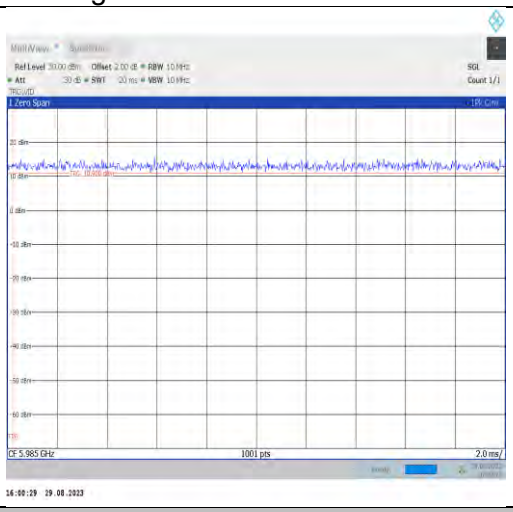
NTNV-11ax20MIMO-Ant9-5955



NTNV-11ax40MIMO-Ant7-5965



NTNV-11ax40MIMO-Ant9-5965

	
NTNV-11ax80MIMO-Ant7-5985	NTNV-11ax80MIMO-Ant9-5985

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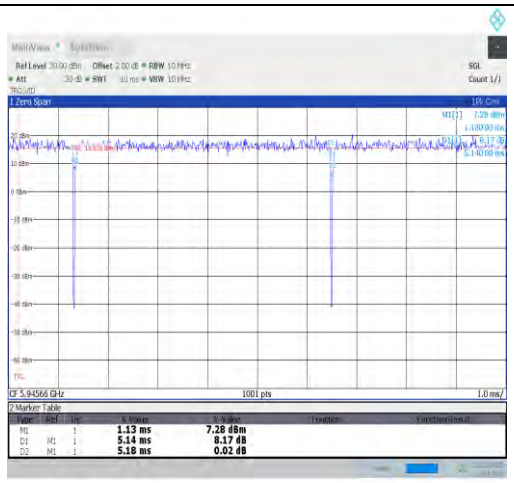
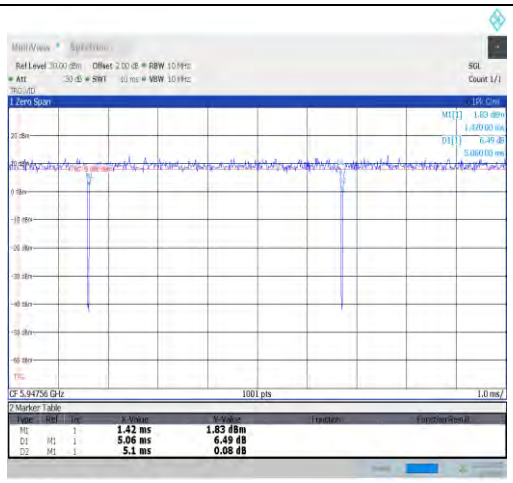
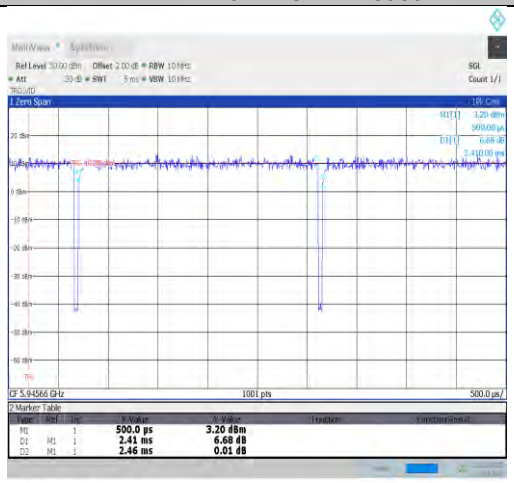
Test Graphs for AX Part RU



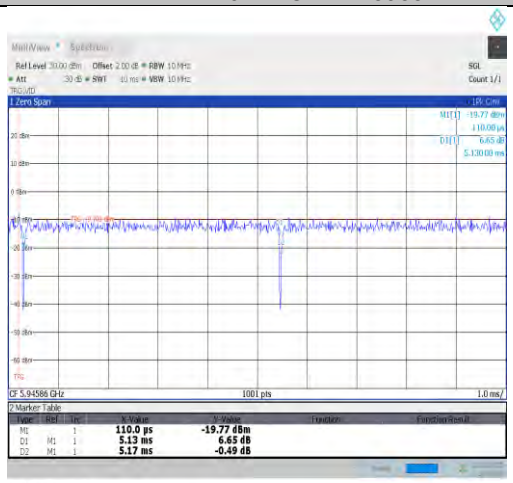
NTNV-11ax20MIMO-Ant7-5955



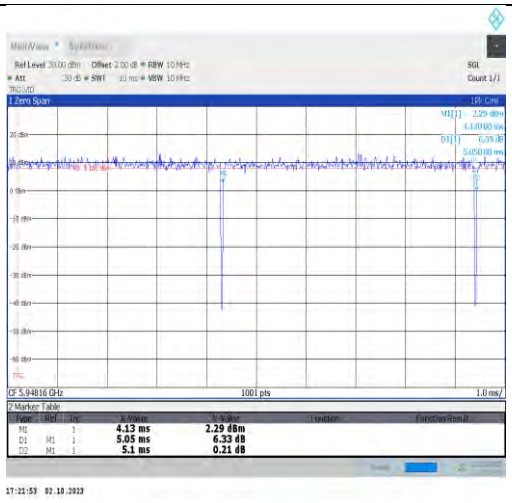
NTNV-11ax20MIMO-Ant7-5955



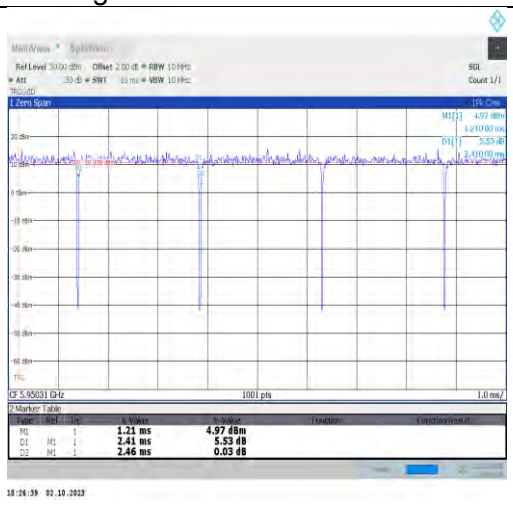
NTNV-11ax20MIMO-Ant7-5955



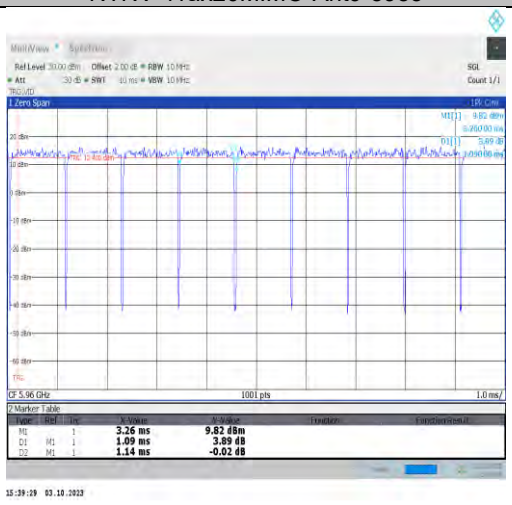
NTNV-11ax20MIMO-Ant9-5955



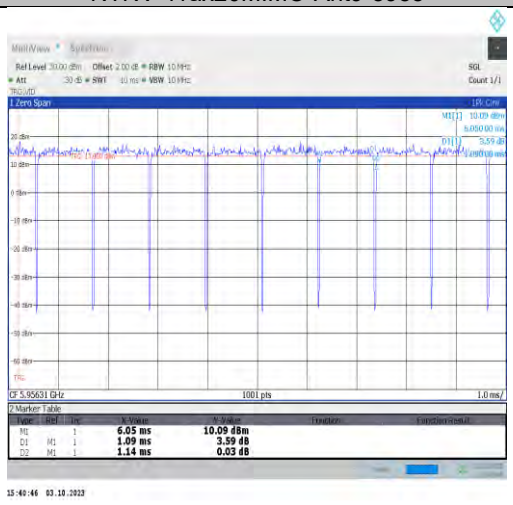
NTNV-11ax20MIMO-Ant9-5955



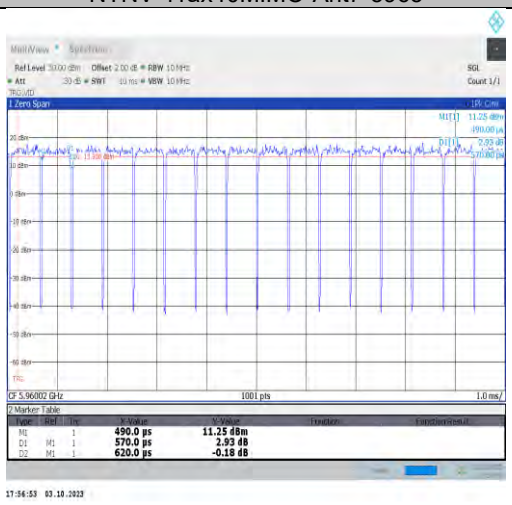
NTNV-11ax20MIMO-Ant9-5955



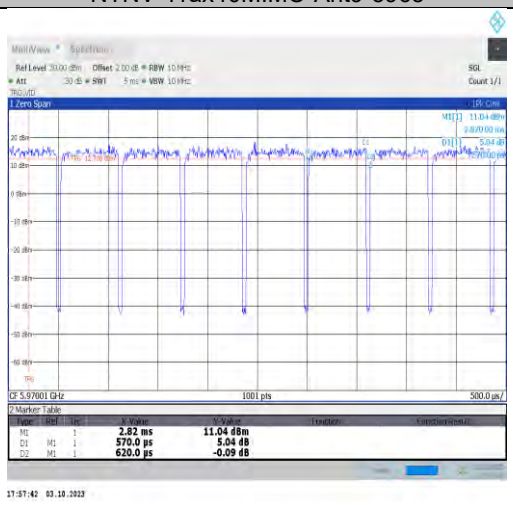
NTNV-11ax40MIMO-Ant7-5965



NTNV-11ax40MIMO-Ant9-5965



NTNV-11ax80MIMO-Ant7-5985



NTNV-11ax80MIMO-Ant9-5985

Maximum e.i.r.p.
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11ax20MIMO	Ant7	5955	8.31	-6.2	2.11	≤24.00	PASS
11ax20MIMO	Ant9	5955	8.03	-3.1	4.93	≤24.00	PASS
11ax20MIMO	total	5955	11.18	-3.1	8.08	≤24.00	PASS
11ax20MIMO	Ant7	6175	7.28	-6.2	1.08	≤24.00	PASS
11ax20MIMO	Ant9	6175	7.4	-3.1	4.3	≤24.00	PASS
11ax20MIMO	total	6175	10.35	-3.1	7.25	≤24.00	PASS
11ax20MIMO	Ant7	6415	6.7	-6.2	0.5	≤24.00	PASS
11ax20MIMO	Ant9	6415	8.79	-3.1	5.69	≤24.00	PASS
11ax20MIMO	total	6415	10.88	-3.1	7.78	≤24.00	PASS
11ax20MIMO	Ant7	6435	7.47	-6.2	1.27	≤24.00	PASS
11ax20MIMO	Ant9	6435	7.56	-3.1	4.46	≤24.00	PASS
11ax20MIMO	total	6435	10.53	-3.1	7.43	≤24.00	PASS
11ax20MIMO	Ant7	6475	7.65	-6.2	1.45	≤24.00	PASS
11ax20MIMO	Ant9	6475	7.54	-3.1	4.44	≤24.00	PASS
11ax20MIMO	total	6475	10.61	-3.1	7.51	≤24.00	PASS
11ax20MIMO	Ant7	6515	6.95	-6.2	0.75	≤24.00	PASS
11ax20MIMO	Ant9	6515	7.47	-3.1	4.37	≤24.00	PASS
11ax20MIMO	total	6515	10.23	-3.1	7.13	≤24.00	PASS
11ax20MIMO	Ant7	6535	7.71	-6.2	1.51	≤24.00	PASS
11ax20MIMO	Ant9	6535	8.03	-3.1	4.93	≤24.00	PASS
11ax20MIMO	total	6535	10.88	-3.1	7.78	≤24.00	PASS
11ax20MIMO	Ant7	6695	7.36	-6.2	1.16	≤24.00	PASS
11ax20MIMO	Ant9	6695	7.5	-3.1	4.4	≤24.00	PASS
11ax20MIMO	total	6695	10.44	-3.1	7.34	≤24.00	PASS
11ax20MIMO	Ant7	6855	7.69	-6.2	1.49	≤24.00	PASS
11ax20MIMO	Ant9	6855	7.83	-3.1	4.73	≤24.00	PASS
11ax20MIMO	total	6855	10.77	-3.1	7.67	≤24.00	PASS
11ax20MIMO	Ant7	6875	7.12	-6.2	0.92	≤24.00	PASS
11ax20MIMO	Ant9	6875	7.14	-3.1	4.04	≤24.00	PASS
11ax20MIMO	total	6875	10.14	-3.1	7.04	≤24.00	PASS
11ax20MIMO	Ant7	6895	7.62	-6.2	1.42	≤24.00	PASS
11ax20MIMO	Ant9	6895	7.64	-3.1	4.54	≤24.00	PASS
11ax20MIMO	total	6895	10.67	-3.1	7.57	≤24.00	PASS
11ax20MIMO	Ant7	6995	7.4	-6.2	1.2	≤24.00	PASS
11ax20MIMO	Ant9	6995	8.14	-3.1	5.04	≤24.00	PASS
11ax20MIMO	total	6995	10.8	-3.1	7.7	≤24.00	PASS
11ax20MIMO	Ant7	7115	-4.32	-6.2	-10.52	≤24.00	PASS
11ax20MIMO	Ant9	7115	-4.28	-3.1	-7.38	≤24.00	PASS
11ax20MIMO	total	7115	-1.29	-3.1	-4.39	≤24.00	PASS
11ax40MIMO	Ant7	5965	10.21	-6.2	4.01	≤24.00	PASS
11ax40MIMO	Ant9	5965	10.31	-3.1	7.21	≤24.00	PASS
11ax40MIMO	total	5965	13.27	-3.1	10.17	≤24.00	PASS
11ax40MIMO	Ant7	6165	9.73	-6.2	3.53	≤24.00	PASS
11ax40MIMO	Ant9	6165	10.19	-3.1	7.09	≤24.00	PASS
11ax40MIMO	total	6165	12.98	-3.1	9.88	≤24.00	PASS
11ax40MIMO	Ant7	6405	9.31	-6.2	3.11	≤24.00	PASS
11ax40MIMO	Ant9	6405	9.92	-3.1	6.82	≤24.00	PASS
11ax40MIMO	total	6405	12.64	-3.1	9.54	≤24.00	PASS
11ax40MIMO	Ant7	6445	8.69	-6.2	2.49	≤24.00	PASS