



FCC RF Test Report

FCC ID : UZ7WLMT0
EQUIPMENT : Touch Computer
BRAND NAME : Zebra
MODEL NAME : WLMT0
APPLICANT : Zebra Technologies Corporation
 1 Zebra Plaza, Holtsville, NY 11742
MANUFACTURER : Zebra Technologies Corporation
 1 Zebra Plaza, Holtsville, NY 11742
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : 15E 6 GHz Low Power Dual Client (6CD)
TEST DATE(S) : Jan. 12, 2023 ~ Feb. 17, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

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People's Republic of China**



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History of this test report

Report No.	Version	Description	Issued Date
FR2D2902A	01	Initial issue of report	Mar. 06, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(8)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	-
3.6	15.407(b)	Unwanted Emissions	Pass	Under limit 1.19 dB at 2389.95 MHz
3.7	15.207	AC Conducted Emission	Pass	Under limit 14.61 dB at 0.201 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	WLMT0
Sample 1	Scanner(SE4710)
Sample 2	Scanner(SE5500)
FCC ID	UZ7WLMT0
SN	Conducted: RWPD01CN2PF002Z for Sample 1 Radiation: 7QPE02CNPPF00A9 for Sample 1 7QPE02CNPPF00B0 for Sample 2 Conduction: 230025247E2013 for Sample 1 CBP: 223475247E0049 for Sample 1
HW Version	DV
SW Version	13-08-06.00-TG-UOO-PRD-ATH-04
FW Version	FUSION_QA_4_1.0.0.010_T
MFD	06FEB23
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: the difference between them is that the scanner model is different. According to the difference, we choose the Sample 1 with Battery 1 for full test, and Sample 1 with Battery 2/Battery 3/ Sample 2 verify the sample 1 with Battery 1 worst mode for RSE.
3. WIFI 6E 6CD contains two separate reports. This report (FR2D2902A) is indoor client mode for U-NII-5~8, and another report (FR2D2902B) is standard client mode for U-NII-5&7.

Specification of Accessory				
Battery 1	Brand Name	Zebra	Model Number	BT-000473

Specification of Accessory				
Battery 2	Brand Name	Zebra	Model Number	BT-000473B
Battery 3	Brand Name	Zebra	Model Number	BT-000473E
AC Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Earphone 1	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01
Earphone 2	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
USB Cable (Type C to Type A)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01



1.2 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	U-NII-5: 5925 MHz ~ 6425 MHz U-NII-6: 6425 MHz ~ 6525 MHz U-NII-7: 6525 MHz ~ 6875 MHz U-NII-8: 6875 MHz ~ 7125 MHz		
Maximum EIRP	<MIMO Ant.0+1> <U-NII-5~8> 802.11a : 8.78 dBm / 0.0076 W 802.11ax HE20 : 12.38 dBm / 0.0173 W 802.11ax HE40 : 15.13 dBm / 0.0326 W 802.11ax HE80 : 17.87 dBm / 0.0612 W 802.11ax HE160 : 20.51 dBm / 0.1125 W		
99% Occupied Bandwidth	802.11a : 16.783 MHz 802.11ax HE20 : 19.061 MHz 802.11ax HE40 : 38.042 MHz 802.11ax HE80 : 77.842 MHz 802.11ax HE160 : 157.602 MHz		
Antenna Type / Gain	<5925 MHz ~ 6425 MHz > <Ant. 0> : Monopole Antenna with gain 2.05 dBi <Ant. 1> : IFA Antenna with gain 1.51 dBi <6425 MHz ~ 6525 MHz > <Ant. 0> : Monopole Antenna with gain -0.94 dBi <Ant. 1> : IFA Antenna with gain 0.76 dBi <6525 MHz ~ 6875 MHz > <Ant. 0> : Monopole Antenna with gain -0.54 dBi <Ant. 1> : IFA Antenna with gain 0.10 dBi <6875 MHz ~ 7125 MHz > <Ant. 0> : Monopole Antenna with gain -2.15 dBi <Ant. 1> : IFA Antenna with gain -0.73 dBi		
Type of Modulation	802.11a : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)		
Antenna Function Description		Ant. 0	Ant. 1
	802.11 a/ax SISO	V	V
	802.11 a/ax CDD	V	
	802.11 ax SDM	V	
	802.11 ax TxBF	V	

Remark:

- 802.11ax support full RU tone and partial RU tone(26/52/242/484/996-tone), both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested for conducted power/PSD/Channel Mask in appendix A, all the other test case were performed with full RU with its maximum power/PSD.
- The EUT does not support channel puncturing mode.
- WIFI MIMO support CDD & SDM & Tx Beamforming mode by manufacturer declared.
- For WLAN SISO & MIMO(CDD) mode of 802.11a, the whole testing has assessed CDD mode by



referring to the higher normal conducted power.

- 5. For WLAN SISO & MIMO(CDD) & MIMO(SDM) mode of 802.11ax, the whole testing has assessed SDM mode by referring to the higher normal conducted power.
- 6. 802.11ax support Tx Beamforming mode for 802.11ax, and the manufacturer declares that Tx Beamforming power/EIRP is not greater than CDD&SDM mode, so CDD&SDM mode covers Tx Beamforming mode.
- 7. The device supports 1S2T (CDD & Tx Beamforming) and 2S2T (SDM) mode; 1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	DFS01-SZ	CN1256	421272

Test data subcontracted: CBP test data in section 3.5 of this report.



1.5 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH08-KS	AUDIX	E3	6.2009-8-24
2.	CO01-KS	AUDIX	E3	6.2009-8-24
3.	DFS01-SZ	Sporton	Test Tools	1.0

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

<U-NII-5, 6, 7, 8>

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							
BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							
BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							



BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							

BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225		229		233			
	Freq. (MHz)	7075		7095		7115			
BW 40M	Channel	227							
	Freq. (MHz)	7085							



2.2 Test Mode

Radiated Spurious Emission Test Modes

1. For Radiated Test Cases, The tests were performance with Adapter. All radiated test mode refer to the appendix C.
2. For simultaneous transmission test mode, the combination testing was assessed from the worst RSE link mode of 6G WLAN and the worst RSE link mode of BT/2.4G WLAN.
3. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 6GHz transmit at the same time the module will limit different output power for simultaneous transmission compliance.
4. For band U-NII-5&7, the conducted power and PSD for indoor client mode is smaller than standard client mode, so all the RSE test data is covered by standard client mode.

Test Cases	
AC Conducted Emission	Mode 1 : BT Link + WLAN Link(6E) + Battery(BT-000473) + USB Cable (CBL-TC5X-USBC2A-01) + Charging from AC Adapter (PWR-WUA5V12W0US)



Ch. #		5925-6425 MHz	6425-6525 MHz	6525-6875 MHz	6875-7125 MHz
		UNII-5	UNII-6	UNII-7	UNII-8
		802.11a/ax HE20	802.11a/ax HE20	802.11a/ax HE20	802.11a/ax HE20
L	Low	001	097	117	189
M	Middle	049	105	149	209
H	High	093	113	181	229/233
Straddle		-	-	185	-

Ch. #		5925-6425 MHz	6425-6525 MHz	6525-6875 MHz	6875-7125 MHz
		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	003	099	123	195
M	Middle	051	-	147	211
H	High	091	107	179	227
Straddle		-	115	187	-

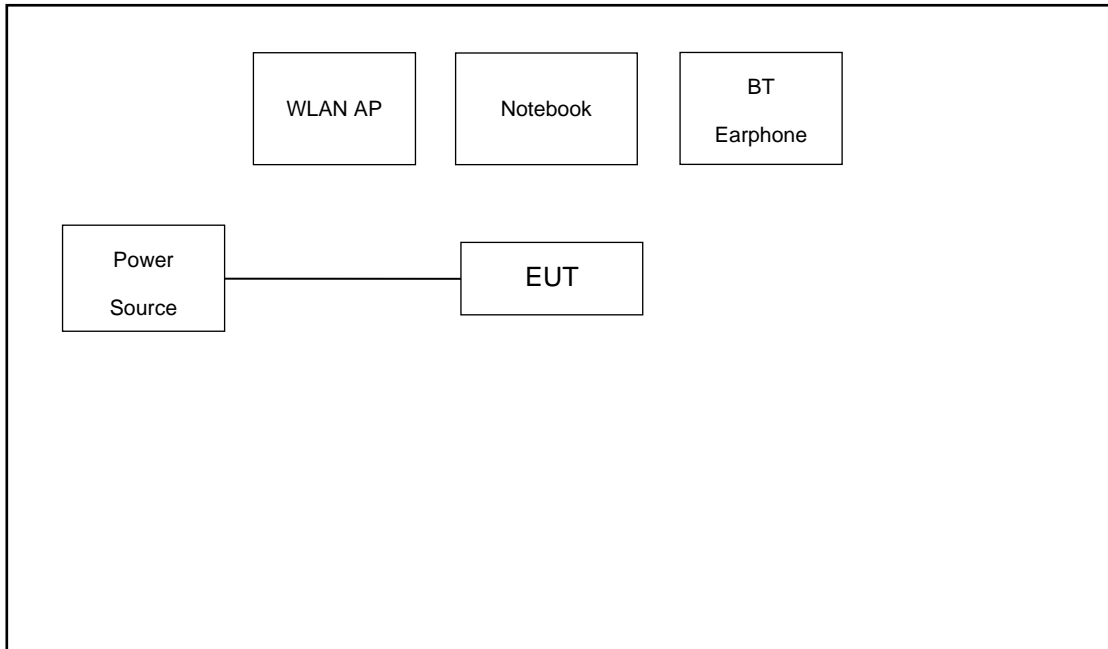
Ch. #		5925-6425 MHz	6425-6525 MHz	6525-6875 MHz	6875-7125 MHz
		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	007	103	135	199
M	Middle	055		151	-
H	High	087		167	215
Straddle		-	119	183	-

Ch. #		5925-6425 MHz	6425-6525 MHz	6525-6875 MHz	6875-7125 MHz
		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	015	-	143	207
M	Middle	047			
H	High	079			
Straddle		-	111	175	-

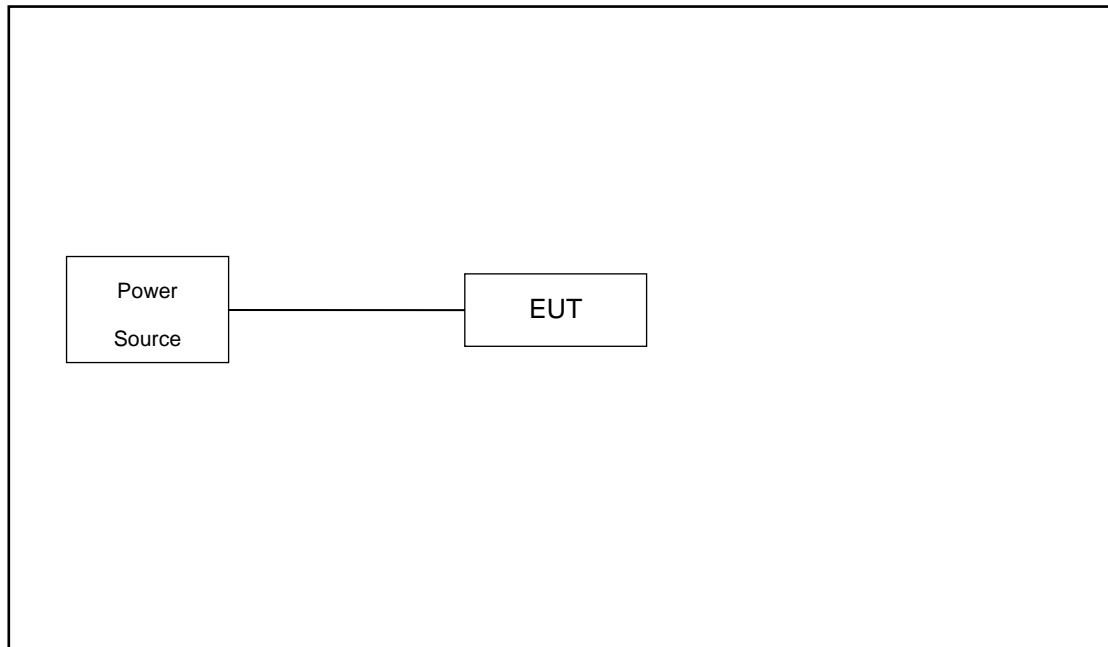
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

For Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
2.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program (QRCT TX Tool) was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.29 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 6.29 + 10 = 16.29 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

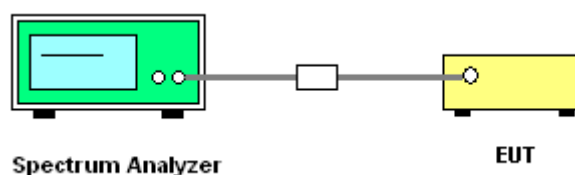
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

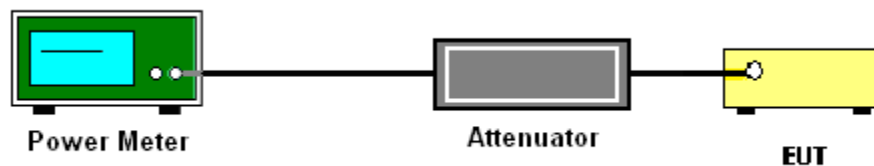
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, attenuator loss and duty factor. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

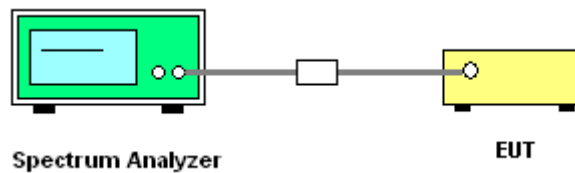
Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB, where N_{ANT} is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(6) 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.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

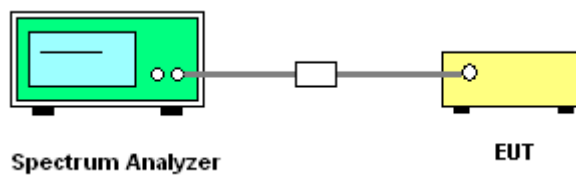
The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.

- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.



3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

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.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

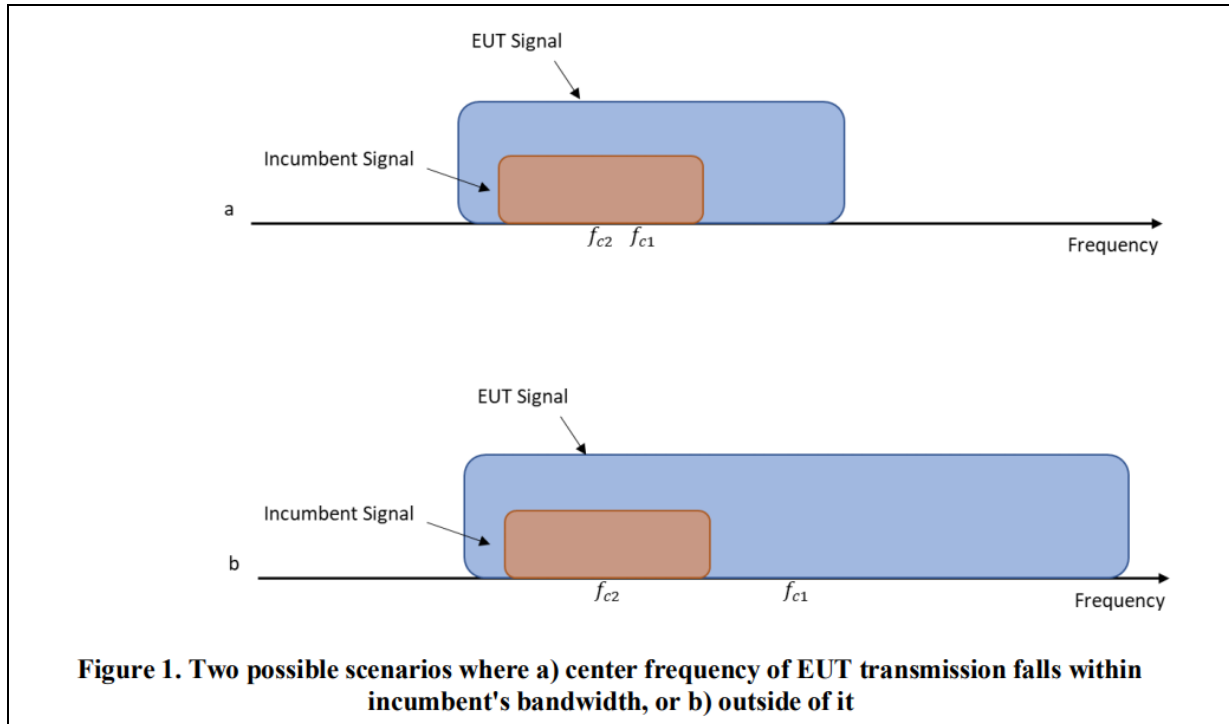
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

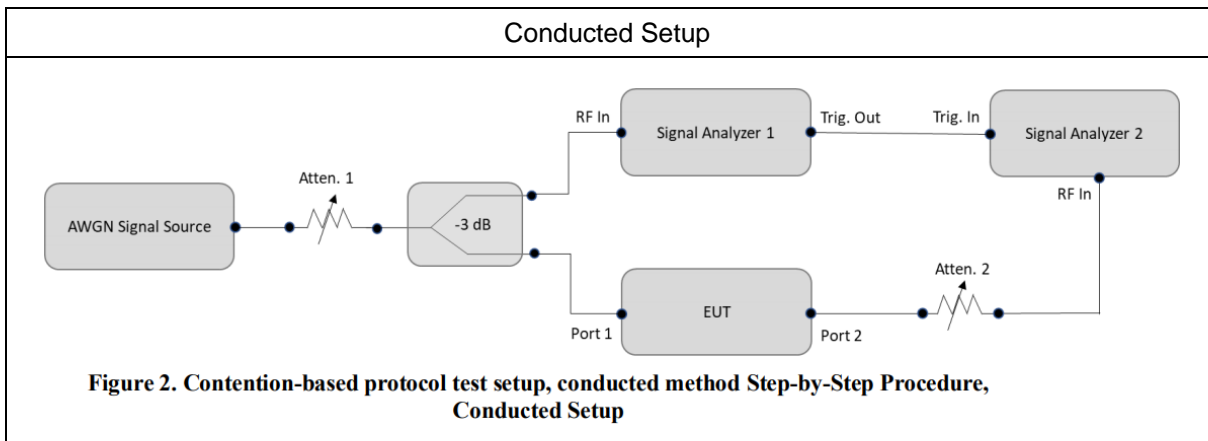
3.5.3 Test Procedures

Refer to KDB 987594 D02 v01r01.

1. To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency f_{c2}) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed
2. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
3. Monitor the signal analyzer 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.
4. (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.

5. 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 2, choose a different center frequency for the AWGN signal and repeat the process.
6. EUT was driven in MIMO mode, the interferer signal was injected to both chains to monitor the performance, while the interferer level is determined according to the lowest antenna gain among both antennas.

3.5.4 Test Setup



3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN



3.5.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 5	6135	20	6135	-78.60	100	-62	-80.11	18.11		
				Result: Stop Transmission						
				-79.60	<90	-62	-81.11	19.11		
				Result: Minimal Operation						
				-80.60	=0	-62	-82.11	20.11		
				Result: Normal Operation						
	6185	160	6110	-74.55	100	-62	-76.06	14.06		
				Result: Stop Transmission						
				-75.55	<90	-62	-77.06	15.06		
			Result: Minimal Operation							
			-76.55	=0	-62	-78.06	16.06			
			Result: Normal Operation							
			6185	160	6185	-67.49	100	-62	-69.00	7.00
						Result: Stop Transmission				
						-68.49	<90	-62	-70.00	8.00
	Result: Minimal Operation									
	-69.49	=0	-62	-71.00	9.00					
	Result: Normal Operation									
6260	160	6260	-76.42	100	-62	-77.93	15.93			
			Result: Stop Transmission							
			-77.42	<90	-62	-78.93	16.93			
Result: Minimal Operation										
-78.42	=0	-62	-79.93	17.93						
Result: Normal Operation										

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 1, gain = 1.51dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 6	6455	20	6455	-75.16	100	-62	-74.22	12.22
				Result: Stop Transmission				
				-76.16	<90	-62	-75.22	13.22
				Result: Minimal Operation				
				-77.16	=0	-62	-76.22	14.22
				Result: Normal Operation				
	6505	160	6430	-72.91	100	-62	-71.97	9.97
				Result: Stop Transmission				
				-73.91	<90	-62	-72.97	10.97
			Result: Minimal Operation					
			-74.91	=0	-62	-73.97	11.97	
			Result: Normal Operation					
			6505	-65.08	100	-62	-64.14	2.14
				Result: Stop Transmission				
				-66.08	<90	-62	-65.14	3.14
	Result: Minimal Operation							
	-67.08	=0	-62	-66.14	4.14			
	Result: Normal Operation							
6580	-73.96	100	-62	-73.02	11.02			
	Result: Stop Transmission							
	-74.96	<90	-62	-74.02	12.02			
Result: Minimal Operation								
-75.96	=0	-62	-75.02	13.02				
Result: Normal Operation								

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 0, gain = -0.94dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)	
UNII Band 7	6695	20	6695	-75.39	100	-62	-74.85	12.85	
				Result: Stop Transmission					
				-76.39	<90	-62	-75.85	13.85	
				Result: Minimal Operation					
				-77.39	=0	-62	-76.85	14.85	
				Result: Normal Operation					
	6665	160	6590	-74.60	100	-62	-74.06	12.06	
				Result: Stop Transmission					
				-75.60	<90	-62	-75.06	13.06	
				Result: Minimal Operation					
				-76.60	=0	-62	-76.06	14.06	
				Result: Normal Operation					
			6740	6665	-65.05	100	-62	-64.51	2.51
					Result: Stop Transmission				
					-66.05	<90	-62	-65.51	3.51
					Result: Minimal Operation				
					-67.05	=0	-62	-66.51	4.51
					Result: Normal Operation				
6740	6665	-73.77	100	-62	-73.23	11.23			
		Result: Stop Transmission							
		-74.77	<90	-62	-74.23	12.23			
		Result: Minimal Operation							
		-75.77	=0	-62	-75.23	13.23			
		Result: Normal Operation							

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 0, gain = -0.54dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 8	7015	20	7015	-76.66	100	-62	-74.51	12.51
				Result: Stop Transmission				
				-77.66	<90	-62	-75.51	13.51
				Result: Minimal Operation				
				-78.66	=0	-62	-76.51	14.51
				Result: Normal Operation				
	6985	160	6910	-73.01	100	-62	-70.86	8.86
				Result: Stop Transmission				
				-74.01	<90	-62	-71.86	9.86
				Result: Minimal Operation				
				-75.01	=0	-62	-72.86	10.86
				Result: Normal Operation				
			7060	-65.51 (worst)	100	-62	-63.36	1.36
					Result: Stop Transmission			
					<90	-62	-64.36	2.36
					Result: Minimal Operation			
					=0	-62	-65.36	3.36
					Result: Normal Operation			
7060	-72.50	100	-62	-70.35	8.35			
		Result: Stop Transmission						
		<90	-62	-71.35	9.35			
		Result: Minimal Operation						
		=0	-62	-72.35	10.35			
		Result: Normal Operation						

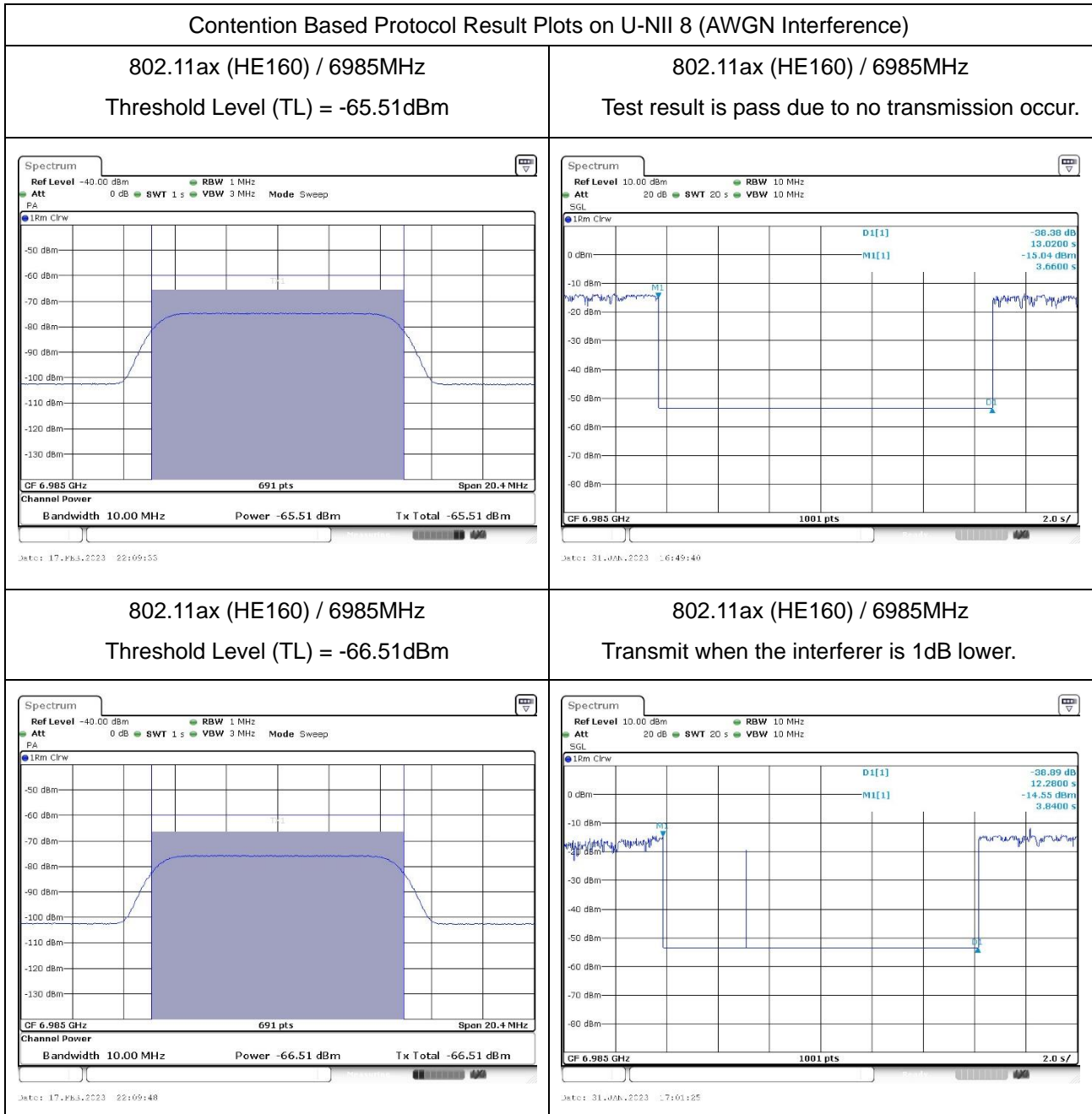
Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 0, gain = -2.15dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



3.5.7 Worst Case Plots of Contention Based Protocol



Remark: M1: Injection of AWGN signal, D1: Removal of AWGN signal



3.6 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.6.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01r01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu V/m, \text{ where } P \text{ is the eirp (Watts)}$$

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

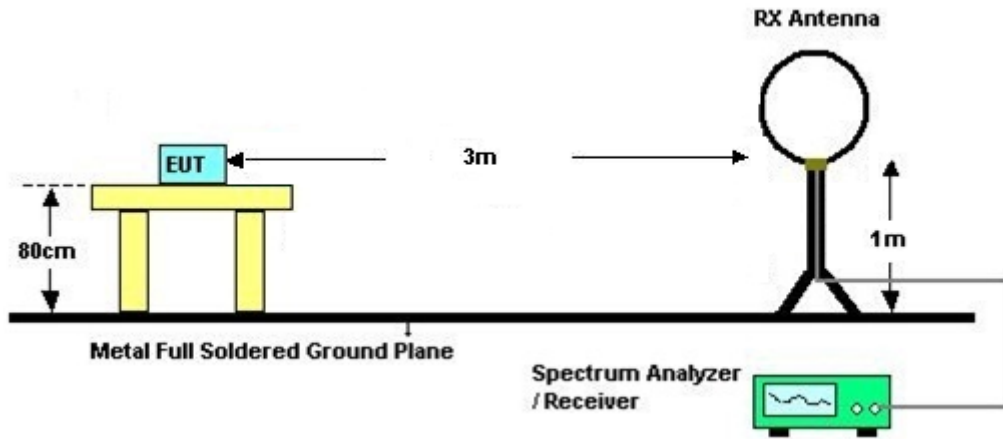


3.6.3 Test Procedures

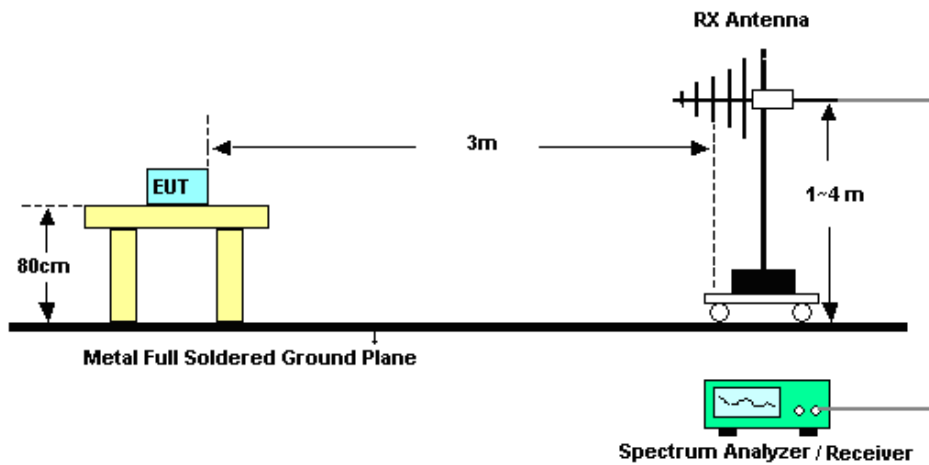
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.6.4 Test Setup

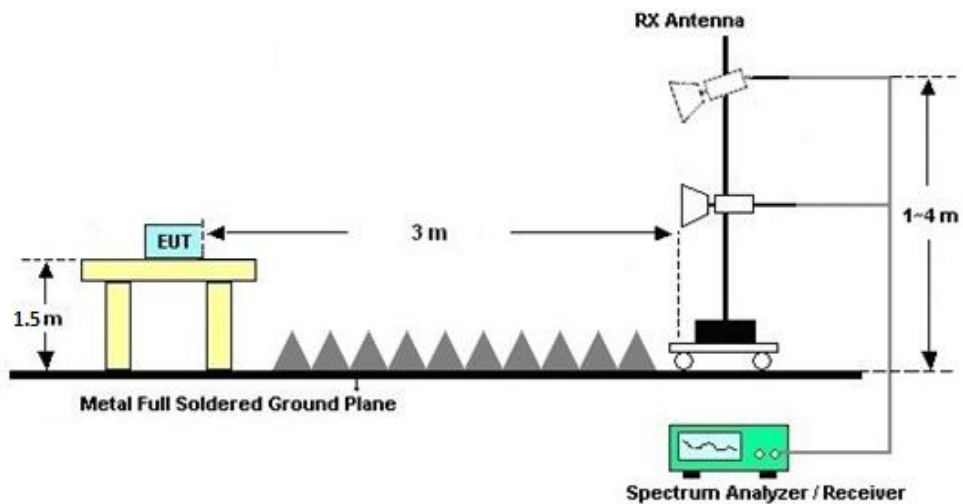
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.6.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.6.7 Duty Cycle

Please refer to Appendix D.

3.6.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

The emission level above 18GHz is checked that the emission level is noise floor only, so it is not reflected in the report.



3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	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.

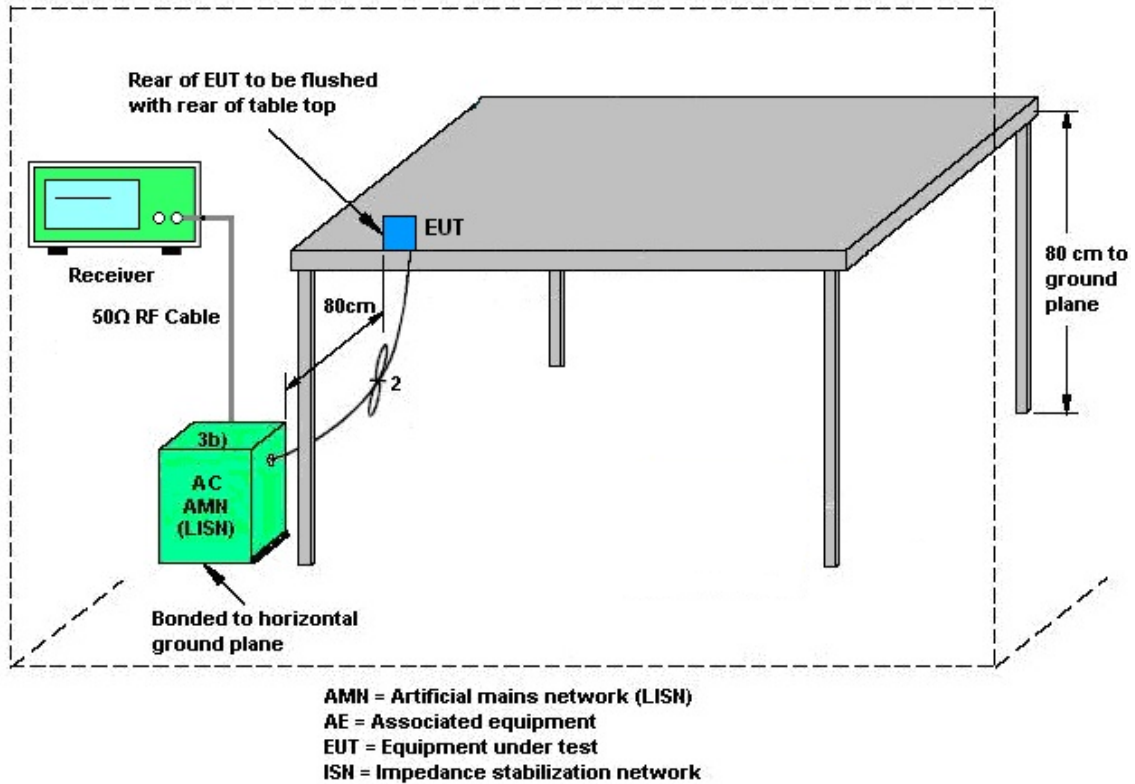
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.8 Antenna Requirements

3.8.1 Standard Applicable

§15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.8.3 Antenna Gain

<CDD Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For 802.11a/ax mode, directional gain is calculated as

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e.,

Directional gain = G_{ANT MAX}(Ant.1 Gain, Ant.2 Gain,...) + Array Gain, as following table for Power, where Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

For PSD, the directional gain calculation is following,

Directional gain = 10 log[(10^{G₁/20} + 10^{G₂/20} + ... + 10^{G_n/20})² / N_{ANT}] dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

N_{SS} = number of spatial streams. (The worst case directional gain will occur when N_{SS} = 1)

			DG	DG
			for	for
	Ant. 0	Ant. 1	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
U-NII-5	2.05	1.51	2.05	4.79
U-NII-6	-0.94	0.76	0.76	2.96
U-NII-7	-0.54	0.10	0.10	2.80
U-NII-8	-2.15	-0.73	-0.73	1.60

<SDM Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For 802.11ax mode, directional gain is calculated as

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e.,

Directional gain = $G_{ANT\ MAX}(Ant.1\ Gain, Ant.2\ Gain, \dots) + Array\ Gain$, as following table for Power, where Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

For PSD, the directional gain calculation is following,

Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_n/10})/N_{ANT}]$ dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

			DG	DG
			for	for
	Ant. 0	Ant. 1	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
U-NII-5	2.05	1.51	2.05	1.79
U-NII-6	-0.94	0.76	0.76	-0.01
U-NII-7	-0.54	0.10	0.10	-0.21
U-NII-8	-2.15	-0.73	-0.73	-1.38

<TXBF modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For transmissions, directional gain is calculated as

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.



The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The directional gain “DG” is calculated as following table.

	Ant 0	Ant 1	DG	DG
	(dBi)	(dBi)	for	for
			Power	PSD
			(dBi)	(dBi)
U-NII-5	2.05	1.51	4.79	4.79
U-NII-6	-0.94	0.76	2.96	2.96
U-NII-7	-0.54	0.10	2.80	2.80
U-NII-8	-2.15	-0.73	1.60	1.60



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jan. 12, 2023~ Feb. 13, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Jan. 12, 2023~ Feb. 13, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Jan. 12, 2023~ Feb. 13, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY572901 51	3Hz~8.5GHz;Max 30dBm	Jul. 11, 2022	Feb. 09, 2023	Jul. 10, 2023	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 12, 2022	Feb. 09, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Feb. 09, 2023	Oct. 15, 2023	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz-1GHz	Aug. 26, 2022	Feb. 09, 2023	Aug. 25, 2023	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 08, 2022	Feb. 09, 2023	Jul. 07, 2023	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Feb. 09, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2023	Feb. 09, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Feb. 09, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Feb. 09, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz-18Ghz	Jan. 05, 2023	Feb. 09, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Feb. 09, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Feb. 09, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Feb. 09, 2023	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Feb. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Feb. 13, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Feb. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Feb. 13, 2023	Oct. 11, 2023	Conduction (CO01-KS)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 27, 2022	Jan. 31, 2023~ Feb. 17, 2023	Dec. 26, 2023	CBP (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY562004 24	9kHz~6GHz	Apr. 07, 2022	Jan. 31, 2023~ Feb. 17, 2023	Apr. 08, 2023	CBP (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011 007	0.4~6GHz	Sep. 06, 2022	Jan. 31, 2023~ Feb. 17, 2023	Sep. 05, 2023	CBP (DFS01-SZ)

NCR: No Calibration Required.



5 Uncertainty of Evaluation

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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----- THE END -----



Appendix A. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2023/1/12~2023/2/13	Relative Humidity:	51~54	%

<11a CDD Mode>

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
11a	6Mbps	2	001	5955	0.03	0.04	1.88	3.70	5.90	2.05		7.95	24.00	Pass
11a	6Mbps	2	049	6195	0.03	0.04	2.26	3.75	6.08	2.05		8.13	24.00	Pass
11a	6Mbps	2	093	6415	0.03	0.04	2.25	3.59	5.98	2.05		8.03	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
11a	6Mbps	2	097	6435	0.03	0.04	4.51	5.25	7.91	0.76		8.67	24.00	Pass
11a	6Mbps	2	105	6475	0.03	0.04	4.29	5.63	8.02	0.76		8.78	24.00	Pass
11a	6Mbps	2	113	6515	0.03	0.04	4.10	5.19	7.69	0.76		8.45	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
11a	6Mbps	2	117	6535	0.03	0.04	4.56	5.65	8.15	0.10		8.25	24.00	Pass
11a	6Mbps	2	149	6695	0.03	0.04	4.57	5.12	7.87	0.10		7.97	24.00	Pass
11a	6Mbps	2	181	6855	0.03	0.04	4.69	5.27	8.00	0.10		8.10	24.00	Pass
11a	6Mbps	2	185	6875	0.03	0.04	4.80	5.31	8.08	0.10		8.18	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
11a	6Mbps	2	189	6895	0.03	0.04	5.76	6.09	8.94	-0.73		8.21	24.00	Pass
11a	6Mbps	2	209	6995	0.03	0.04	6.19	5.45	8.85	-0.73		8.12	24.00	Pass
11a	6Mbps	2	229	7095	0.03	0.04	5.80	6.69	9.28	-0.73		8.55	24.00	Pass
11a	6Mbps	2	233	7115	0.03	0.03	5.22	6.26	8.78	-0.73		8.05	24.00	Pass

<11ax SDM Mode>

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	001	5955	Full	0.00	0.00	5.81	6.95	9.43	2.05	2.05	11.48	24.00	Pass
HE20	MCS0	2	001	5955	26/0	0.00	0.00	-3.63	-2.96	-0.27	2.05	2.05	1.78	24.00	Pass
HE20	MCS0	2	001	5955	52/37	0.00	0.00	-0.44	-0.03	2.78	2.05	2.05	4.83	24.00	Pass
HE20	MCS0	2	001	5955	106/53	0.00	0.00	2.12	3.44	5.84	2.05	2.05	7.89	24.00	Pass
HE20	MCS0	2	049	6195	Full	0.00	0.00	-6.04	-5.98	-3.00	2.05	2.05	-0.95	24.00	Pass
HE20	MCS0	2	049	6195	26/0	0.00	0.00	-14.41	-14.49	-11.44	2.05	2.05	-9.39	24.00	Pass
HE20	MCS0	2	049	6195	52/37	0.00	0.00	-11.87	-11.85	-8.85	2.05	2.05	-6.80	24.00	Pass
HE20	MCS0	2	049	6195	106/53	0.00	0.00	-8.89	-8.98	-5.92	2.05	2.05	-3.87	24.00	Pass
HE20	MCS0	2	045	6175	Full	0.00	0.00	5.94	7.26	9.66	2.05	2.05	11.71	24.00	Pass
HE20	MCS0	2	045	6175	26/0	0.00	0.00	-3.72	-3.19	-0.44	2.05	2.05	1.61	24.00	Pass
HE20	MCS0	2	045	6175	52/37	0.00	0.00	-0.32	0.38	3.05	2.05	2.05	5.10	24.00	Pass
HE20	MCS0	2	045	6175	106/53	0.00	0.00	2.42	4.01	6.30	2.05	2.05	8.35	24.00	Pass
HE20	MCS0	2	093	6415	Full	0.00	0.00	5.82	6.68	9.28	2.05	2.05	11.33	24.00	Pass
HE20	MCS0	2	093	6415	26/8	0.00	0.00	-3.89	-3.51	-0.69	2.05	2.05	1.36	24.00	Pass
HE20	MCS0	2	093	6415	52/40	0.00	0.00	-1.27	-0.05	2.39	2.05	2.05	4.44	24.00	Pass
HE20	MCS0	2	093	6415	106/54	0.00	0.00	1.67	2.92	5.35	2.05	2.05	7.40	24.00	Pass
HE40	MCS0	2	003	5965	Full	0.00	0.00	8.21	9.82	12.10	2.05	2.05	14.15	24.00	Pass
HE40	MCS0	2	003	5965	242/61	0.00	0.00	5.73	6.98	9.41	2.05	2.05	11.46	24.00	Pass
HE40	MCS0	2	051	6205	Full	0.00	0.00	8.43	9.98	12.28	2.05	2.05	14.33	24.00	Pass
HE40	MCS0	2	051	6205	242/61	0.00	0.00	5.79	7.24	9.59	2.05	2.05	11.64	24.00	Pass
HE40	MCS0	2	091	6405	Full	0.00	0.00	9.31	9.76	12.55	2.05	2.05	14.60	24.00	Pass
HE40	MCS0	2	091	6405	242/62	0.00	0.00	5.83	6.52	9.20	2.05	2.05	11.25	24.00	Pass
HE80	MCS0	2	007	5985	Full	0.00	0.00	12.31	12.24	15.29	2.05	2.05	17.34	24.00	Pass
HE80	MCS0	2	007	5985	484/65	0.04	0.04	8.50	10.39	12.56	2.05	2.05	14.61	24.00	Pass
HE80	MCS0	2	055	6225	Full	0.00	0.00	11.81	11.78	14.81	2.05	2.05	16.86	24.00	Pass
HE80	MCS0	2	055	6225	484/65	0.04	0.04	8.43	10.25	12.45	2.05	2.05	14.50	24.00	Pass
HE80	MCS0	2	087	6385	Full	0.00	0.00	11.96	11.79	14.89	2.05	2.05	16.94	24.00	Pass
HE80	MCS0	2	087	6385	484/66	0.04	0.04	9.38	9.79	12.60	2.05	2.05	14.65	24.00	Pass
HE160	MCS0	2	015	6025	Full	0.03	0.03	14.72	14.84	17.79	2.05	2.05	19.84	24.00	Pass
HE160	MCS0	2	015	6025	996/67	0.05	0.05	12.43	12.29	15.37	2.05	2.05	17.42	24.00	Pass
HE160	MCS0	2	047	6185	Full	0.03	0.03	14.94	14.99	17.97	2.05	2.05	20.02	24.00	Pass
HE160	MCS0	2	047	6185	996/67	0.05	0.05	13.10	12.18	15.67	2.05	2.05	17.72	24.00	Pass
HE160	MCS0	2	079	6345	Full	0.03	0.03	14.77	14.50	17.65	2.05	2.05	19.70	24.00	Pass
HE160	MCS0	2	079	6345	996/68	0.05	0.05	11.93	11.87	14.91	2.05	2.05	16.96	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	097	6435	Full	0.00	0.00	7.95	8.36	11.17	0.76	11.93	24.00	Pass	
HE20	MCS0	2	097	6435	26/0	0.00	0.00	-1.58	-2.10	1.18	0.76	1.94	24.00	Pass	
HE20	MCS0	2	097	6435	52/37	0.00	0.00	1.13	1.18	4.17	0.76	4.93	24.00	Pass	
HE20	MCS0	2	097	6435	106/53	0.00	0.00	4.18	4.14	7.17	0.76	7.93	24.00	Pass	
HE20	MCS0	2	105	6475	Full	0.00	0.00	7.56	8.99	11.34	0.76	12.10	24.00	Pass	
HE20	MCS0	2	105	6475	26/0	0.00	0.00	-1.72	-1.54	1.38	0.76	2.14	24.00	Pass	
HE20	MCS0	2	105	6475	52/37	0.00	0.00	0.91	1.73	4.35	0.76	5.11	24.00	Pass	
HE20	MCS0	2	105	6475	106/53	0.00	0.00	3.98	4.77	7.40	0.76	8.16	24.00	Pass	
HE20	MCS0	2	113	6515	Full	0.00	0.00	7.94	9.03	11.53	0.76	12.29	24.00	Pass	
HE20	MCS0	2	113	6515	26/8	0.00	0.00	-1.32	-0.36	2.20	0.76	2.96	24.00	Pass	
HE20	MCS0	2	113	6515	52/40	0.00	0.00	1.29	2.37	4.87	0.76	5.63	24.00	Pass	
HE20	MCS0	2	113	6515	106/54	0.00	0.00	4.76	5.79	8.32	0.76	9.08	24.00	Pass	
HE40	MCS0	2	099	6445	Full	0.00	0.00	11.05	11.65	14.37	0.76	15.13	24.00	Pass	
HE40	MCS0	2	099	6445	242/61	0.00	0.00	7.96	8.44	11.22	0.76	11.98	24.00	Pass	
HE40	MCS0	2	107	6485	Full	0.00	0.00	10.91	11.25	14.09	0.76	14.85	24.00	Pass	
HE40	MCS0	2	107	6485	242/61	0.00	0.00	7.61	7.87	10.75	0.76	11.51	24.00	Pass	
HE40	MCS0	2	115	6525	Full	0.00	0.00	10.71	11.71	14.25	0.76	15.01	24.00	Pass	
HE40	MCS0	2	115	6525	242/62	0.00	0.00	7.83	8.82	11.36	0.76	12.12	24.00	Pass	
HE80	MCS0	2	103	6465	Full	0.00	0.00	14.08	14.11	17.11	0.76	17.87	24.00	Pass	
HE80	MCS0	2	103	6465	484/65	0.04	0.04	11.06	11.77	14.44	0.76	15.20	24.00	Pass	
HE80	MCS0	2	119	6545	Full	0.00	0.00	13.98	13.76	16.88	0.76	17.64	24.00	Pass	
HE80	MCS0	2	119	6545	484/66	0.04	0.04	10.73	11.25	14.01	0.76	14.77	24.00	Pass	
HE160	MCS0	2	111	6505	Full	0.03	0.03	16.68	16.80	19.75	0.76	20.51	24.00	Pass	
HE160	MCS0	2	111	6505	996/67	0.05	0.05	14.43	14.80	17.63	0.76	18.39	24.00	Pass	

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	117	6535	Full	0.00	0.00	8.04	9.13	11.63	0.10	11.73	24.00	Pass	
HE20	MCS0	2	117	6535	26/0	0.00	0.00	-1.48	-0.95	1.80	0.10	1.90	24.00	Pass	
HE20	MCS0	2	117	6535	52/37	0.00	0.00	1.24	1.82	4.55	0.10	4.65	24.00	Pass	
HE20	MCS0	2	117	6535	106/53	0.00	0.00	4.25	4.85	7.57	0.10	7.67	24.00	Pass	
HE20	MCS0	2	149	6695	Full	0.00	0.00	8.31	8.65	11.49	0.10	11.59	24.00	Pass	
HE20	MCS0	2	149	6695	26/0	0.00	0.00	-0.76	-1.68	1.81	0.10	1.91	24.00	Pass	
HE20	MCS0	2	149	6695	52/37	0.00	0.00	1.94	1.93	4.95	0.10	5.05	24.00	Pass	
HE20	MCS0	2	149	6695	106/53	0.00	0.00	4.73	4.97	7.86	0.10	7.96	24.00	Pass	
HE20	MCS0	2	181	6855	Full	0.00	0.00	8.12	9.22	11.72	0.10	11.82	24.00	Pass	
HE20	MCS0	2	181	6855	26/8	0.00	0.00	-1.22	-0.01	2.44	0.10	2.54	24.00	Pass	
HE20	MCS0	2	181	6855	52/40	0.00	0.00	1.89	2.43	5.18	0.10	5.28	24.00	Pass	
HE20	MCS0	2	181	6855	106/54	0.00	0.00	4.93	5.44	8.20	0.10	8.30	24.00	Pass	
HE20	MCS0	2	185	6875	Full	0.00	0.00	8.24	9.18	11.75	0.10	11.85	24.00	Pass	
HE20	MCS0	2	185	6875	26/8	0.00	0.00	-1.84	-0.41	1.94	0.10	2.04	24.00	Pass	
HE20	MCS0	2	185	6875	52/40	0.00	0.00	1.97	2.42	5.21	0.10	5.31	24.00	Pass	
HE20	MCS0	2	185	6875	106/54	0.00	0.00	5.04	5.36	8.21	0.10	8.31	24.00	Pass	
HE40	MCS0	2	123	6565	Full	0.00	0.00	10.85	11.43	14.16	0.10	14.26	24.00	Pass	
HE40	MCS0	2	123	6565	242/61	0.00	0.00	7.97	8.69	11.36	0.10	11.46	24.00	Pass	
HE40	MCS0	2	147	6685	Full	0.00	0.00	11.13	11.02	14.09	0.10	14.19	24.00	Pass	
HE40	MCS0	2	147	6685	242/61	0.00	0.00	7.67	8.71	11.23	0.10	11.33	24.00	Pass	
HE40	MCS0	2	179	6845	Full	0.00	0.00	11.59	11.52	14.57	0.10	14.67	24.00	Pass	
HE40	MCS0	2	179	6845	242/62	0.00	0.00	8.27	8.29	11.29	0.10	11.39	24.00	Pass	
HE40	MCS0	2	187	6885	Full	0.00	0.00	11.36	11.41	14.40	0.10	14.50	24.00	Pass	
HE40	MCS0	2	187	6885	484/65	0.00	0.00	7.75	8.35	11.07	0.10	11.17	24.00	Pass	
HE80	MCS0	2	135	6625	Full	0.00	0.00	14.06	13.89	16.99	0.10	17.09	24.00	Pass	
HE80	MCS0	2	135	6625	484/65	0.04	0.04	10.42	11.41	13.96	0.10	14.06	24.00	Pass	
HE80	MCS0	2	151	6705	Full	0.00	0.00	14.13	13.79	16.97	0.10	17.07	24.00	Pass	
HE80	MCS0	2	151	6705	484/65	0.04	0.04	11.11	10.86	14.00	0.10	14.10	24.00	Pass	
HE80	MCS0	2	167	6785	Full	0.00	0.00	14.72	13.93	17.35	0.10	17.45	24.00	Pass	
HE80	MCS0	2	167	6785	484/66	0.00	0.00	12.10	10.87	14.54	0.10	14.64	24.00	Pass	
HE80	MCS0	2	183	6865	Full	0.00	0.00	14.25	14.32	17.30	0.10	17.40	24.00	Pass	
HE80	MCS0	2	183	6865	484/66	0.04	0.04	11.45	11.15	14.32	0.10	14.42	24.00	Pass	
HE160	MCS0	2	143	6665	Full	0.03	0.03	16.52	16.16	19.35	0.10	19.45	24.00	Pass	
HE160	MCS0	2	143	6665	996/68	0.05	0.05	14.26	13.70	17.00	0.10	17.10	24.00	Pass	
HE160	MCS0	2	175	6825	Full	0.03	0.03	17.34	16.82	20.10	0.10	20.20	24.00	Pass	
HE160	MCS0	2	175	6825	996/67	0.05	0.05	14.92	14.47	17.71	0.10	17.81	24.00	Pass	

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	189	6895	Full	0.00	0.00	10.02	10.17	13.11	-0.73	12.38	24.00	Pass	
HE20	MCS0	2	189	6895	26/0	0.00	0.00	0.68	0.25	3.48	-0.73	2.75	24.00	Pass	
HE20	MCS0	2	189	6895	52/37	0.00	0.00	3.47	3.54	6.52	-0.73	5.79	24.00	Pass	
HE20	MCS0	2	189	6895	106/53	0.00	0.00	6.49	6.43	9.47	-0.73	8.74	24.00	Pass	
HE20	MCS0	2	209	6995	Full	0.00	0.00	9.83	8.92	12.41	-0.73	11.68	24.00	Pass	
HE20	MCS0	2	209	6995	26/0	0.00	0.00	0.11	-0.54	2.81	-0.73	2.08	24.00	Pass	
HE20	MCS0	2	209	6995	52/37	0.00	0.00	2.02	2.69	5.38	-0.73	4.65	24.00	Pass	
HE20	MCS0	2	209	6995	106/53	0.00	0.00	5.83	6.02	8.94	-0.73	8.21	24.00	Pass	
HE20	MCS0	2	229	7095	Full	0.00	0.00	9.92	9.77	12.86	-0.73	12.13	24.00	Pass	
HE20	MCS0	2	229	7095	26/8	0.00	0.00	-0.42	0.24	2.93	-0.73	2.20	24.00	Pass	
HE20	MCS0	2	229	7095	52/40	0.00	0.00	2.76	3.41	6.11	-0.73	5.38	24.00	Pass	
HE20	MCS0	2	229	7095	106/54	0.00	0.00	5.55	6.36	8.98	-0.73	8.25	24.00	Pass	
HE20	MCS0	2	233	7115	Full	0.00	0.00	9.51	9.49	12.51	-0.73	11.78	24.00	Pass	
HE20	MCS0	2	233	7115	26/8	0.00	0.00	-10.01	-10.32	-7.15	-0.73	-7.88	24.00	Pass	
HE20	MCS0	2	233	7115	52/40	0.00	0.00	-7.23	-7.37	-4.29	-0.73	-5.02	24.00	Pass	
HE20	MCS0	2	233	7115	106/54	0.00	0.00	-4.31	-4.38	-1.33	-0.73	-2.06	24.00	Pass	
HE40	MCS0	2	195	6925	Full	0.00	0.00	12.81	12.40	15.62	-0.73	14.89	24.00	Pass	
HE40	MCS0	2	195	6925	242/61	0.00	0.00	9.28	10.03	12.68	-0.73	11.95	24.00	Pass	
HE40	MCS0	2	211	7005	Full	0.00	0.00	13.11	12.23	15.70	-0.73	14.97	24.00	Pass	
HE40	MCS0	2	211	7005	242/62	0.00	0.00	10.25	9.16	12.75	-0.73	12.02	24.00	Pass	
HE40	MCS0	2	227	7085	Full	0.00	0.00	12.58	11.92	15.27	-0.73	14.54	24.00	Pass	
HE40	MCS0	2	227	7085	242/62	0.00	0.00	9.79	9.31	12.57	-0.73	11.84	24.00	Pass	
HE80	MCS0	2	199	6945	Full	0.00	0.00	15.47	14.86	18.19	-0.73	17.46	24.00	Pass	
HE80	MCS0	2	199	6945	484/65	0.04	0.04	12.60	11.71	15.19	-0.73	14.46	24.00	Pass	
HE80	MCS0	2	215	7025	Full	0.00	0.00	14.98	14.65	17.83	-0.73	17.10	24.00	Pass	
HE80	MCS0	2	215	7025	484/66	0.04	0.04	12.02	11.72	14.89	-0.73	14.16	24.00	Pass	
HE160	MCS0	2	207	6985	Full	0.03	0.03	18.28	17.38	20.86	-0.73	20.13	24.00	Pass	
HE160	MCS0	2	207	6985	996/68	0.05	0.05	15.79	15.34	18.58	-0.73	17.85	24.00	Pass	

<11ax CDD Mode>

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	001	5955	Full	0.00	0.00	2.74	3.57	6.19	2.05	8.24	24.00	Pass	
HE20	MCS0	2	001	5955	26/0	0.00	0.00	-6.86	-6.16	-3.49	2.05	-1.44	24.00	Pass	
HE20	MCS0	2	001	5955	52/37	0.00	0.00	-3.65	-3.36	-0.49	2.05	1.56	24.00	Pass	
HE20	MCS0	2	001	5955	106/53	0.00	0.00	-1.06	0.24	2.65	2.05	4.70	24.00	Pass	
HE20	MCS0	2	049	6195	Full	0.00	0.00	2.74	4.15	6.51	2.05	8.56	24.00	Pass	
HE20	MCS0	2	049	6195	26/0	0.00	0.00	-6.86	-6.43	-3.63	2.05	-1.58	24.00	Pass	
HE20	MCS0	2	049	6195	52/37	0.00	0.00	-3.46	-2.88	-0.15	2.05	1.90	24.00	Pass	
HE20	MCS0	2	049	6195	106/53	0.00	0.00	-0.65	0.75	3.12	2.05	5.17	24.00	Pass	
HE20	MCS0	2	093	6415	Full	0.00	0.00	2.57	3.31	5.97	2.05	8.02	24.00	Pass	
HE20	MCS0	2	093	6415	26/8	0.00	0.00	-6.96	-6.69	-3.81	2.05	-1.76	24.00	Pass	
HE20	MCS0	2	093	6415	52/40	0.00	0.00	-4.36	-3.43	-0.86	2.05	1.19	24.00	Pass	
HE20	MCS0	2	093	6415	106/54	0.00	0.00	-1.52	-0.25	2.17	2.05	4.22	24.00	Pass	
HE40	MCS0	2	003	5965	Full	0.00	0.00	5.12	6.58	8.92	2.05	10.97	24.00	Pass	
HE40	MCS0	2	003	5965	242/61	0.00	0.00	2.48	3.68	6.13	2.05	8.18	24.00	Pass	
HE40	MCS0	2	051	6205	Full	0.00	0.00	5.31	6.89	9.18	2.05	11.23	24.00	Pass	
HE40	MCS0	2	051	6205	242/61	0.00	0.00	2.45	4.14	6.39	2.05	8.44	24.00	Pass	
HE40	MCS0	2	091	6405	Full	0.00	0.00	6.17	6.39	9.29	2.05	11.34	24.00	Pass	
HE40	MCS0	2	091	6405	242/62	0.00	0.00	2.57	3.39	6.01	2.05	8.06	24.00	Pass	
HE80	MCS0	2	007	5985	Full	0.00	0.00	9.12	8.95	12.05	2.05	14.10	24.00	Pass	
HE80	MCS0	2	007	5985	484/65	0.04	0.04	5.40	7.19	9.40	2.05	11.45	24.00	Pass	
HE80	MCS0	2	055	6225	Full	0.00	0.00	8.74	8.39	11.58	2.05	13.63	24.00	Pass	
HE80	MCS0	2	055	6225	484/65	0.04	0.04	5.19	7.05	9.23	2.05	11.28	24.00	Pass	
HE80	MCS0	2	087	6385	Full	0.00	0.00	8.75	8.48	11.63	2.05	13.68	24.00	Pass	
HE80	MCS0	2	087	6385	484/66	0.04	0.04	6.28	6.61	9.46	2.05	11.51	24.00	Pass	
HE160	MCS0	2	015	6025	Full	0.03	0.03	11.28	11.67	14.49	2.05	16.54	24.00	Pass	
HE160	MCS0	2	015	6025	996/67	0.05	0.05	9.04	9.03	12.04	2.05	14.09	24.00	Pass	
HE160	MCS0	2	047	6185	Full	0.03	0.03	11.57	11.72	14.65	2.05	16.70	24.00	Pass	
HE160	MCS0	2	047	6185	996/67	0.05	0.05	9.89	8.87	12.42	2.05	14.47	24.00	Pass	
HE160	MCS0	2	079	6345	Full	0.03	0.03	11.69	11.34	14.53	2.05	16.58	24.00	Pass	
HE160	MCS0	2	079	6345	996/68	0.05	0.05	8.83	8.83	11.84	2.05	13.89	24.00	Pass	

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	097	6435	Full	0.00	0.00	4.78	5.12	7.96	0.76	8.72	24.00	Pass	
HE20	MCS0	2	097	6435	26/0	0.00	0.00	-4.69	-5.34	-1.99	0.76	-1.23	24.00	Pass	
HE20	MCS0	2	097	6435	52/37	0.00	0.00	-1.95	-2.11	0.98	0.76	1.74	24.00	Pass	
HE20	MCS0	2	097	6435	106/53	0.00	0.00	0.95	1.04	4.01	0.76	4.77	24.00	Pass	
HE20	MCS0	2	105	6475	Full	0.00	0.00	4.48	5.57	8.07	0.76	8.83	24.00	Pass	
HE20	MCS0	2	105	6475	26/0	0.00	0.00	-4.95	-4.69	-1.81	0.76	-1.05	24.00	Pass	
HE20	MCS0	2	105	6475	52/37	0.00	0.00	-2.52	-1.52	1.02	0.76	1.78	24.00	Pass	
HE20	MCS0	2	105	6475	106/53	0.00	0.00	0.74	1.34	4.06	0.76	4.82	24.00	Pass	
HE20	MCS0	2	113	6515	Full	0.00	0.00	4.74	5.85	8.34	0.76	9.10	24.00	Pass	
HE20	MCS0	2	113	6515	26/8	0.00	0.00	-4.52	-3.43	-0.93	0.76	-0.17	24.00	Pass	
HE20	MCS0	2	113	6515	52/40	0.00	0.00	-2.05	-0.77	1.65	0.76	2.41	24.00	Pass	
HE20	MCS0	2	113	6515	106/54	0.00	0.00	1.48	2.62	5.10	0.76	5.86	24.00	Pass	
HE40	MCS0	2	099	6445	Full	0.00	0.00	7.98	8.35	11.18	0.76	11.94	24.00	Pass	
HE40	MCS0	2	099	6445	242/61	0.00	0.00	4.64	5.38	8.04	0.76	8.80	24.00	Pass	
HE40	MCS0	2	107	6485	Full	0.00	0.00	7.72	8.15	10.95	0.76	11.71	24.00	Pass	
HE40	MCS0	2	107	6485	242/61	0.00	0.00	4.34	4.65	7.51	0.76	8.27	24.00	Pass	
HE40	MCS0	2	115	6525	Full	0.00	0.00	7.64	8.34	11.01	0.76	11.77	24.00	Pass	
HE40	MCS0	2	115	6525	242/62	0.00	0.00	4.75	5.59	8.20	0.76	8.96	24.00	Pass	
HE80	MCS0	2	103	6465	Full	0.00	0.00	10.74	10.74	13.75	0.76	14.51	24.00	Pass	
HE80	MCS0	2	103	6465	484/65	0.04	0.04	7.93	8.58	11.28	0.76	12.04	24.00	Pass	
HE80	MCS0	2	119	6545	Full	0.00	0.00	10.74	10.66	13.71	0.76	14.47	24.00	Pass	
HE80	MCS0	2	119	6545	484/66	0.04	0.04	7.49	8.16	10.85	0.76	11.61	24.00	Pass	
HE160	MCS0	2	111	6505	Full	0.03	0.03	13.54	13.71	16.63	0.76	17.39	24.00	Pass	
HE160	MCS0	2	111	6505	996/67	0.05	0.05	11.39	11.69	14.55	0.76	15.31	24.00	Pass	

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	117	6535	Full	0.00	0.00	4.88	5.89	8.42	0.10	8.52	24.00	Pass	
HE20	MCS0	2	117	6535	26/0	0.00	0.00	-4.59	-4.11	-1.33	0.10	-1.23	24.00	Pass	
HE20	MCS0	2	117	6535	52/37	0.00	0.00	-1.85	-1.29	1.45	0.10	1.55	24.00	Pass	
HE20	MCS0	2	117	6535	106/53	0.00	0.00	1.05	1.57	4.33	0.10	4.43	24.00	Pass	
HE20	MCS0	2	149	6695	Full	0.00	0.00	5.12	5.25	8.20	0.10	8.30	24.00	Pass	
HE20	MCS0	2	149	6695	26/0	0.00	0.00	-3.95	-4.92	-1.40	0.10	-1.30	24.00	Pass	
HE20	MCS0	2	149	6695	52/37	0.00	0.00	-1.36	-1.25	1.71	0.10	1.81	24.00	Pass	
HE20	MCS0	2	149	6695	106/53	0.00	0.00	1.48	1.61	4.56	0.10	4.66	24.00	Pass	
HE20	MCS0	2	181	6855	Full	0.00	0.00	5.05	5.89	8.50	0.10	8.60	24.00	Pass	
HE20	MCS0	2	181	6855	26/8	0.00	0.00	-4.69	-3.36	-0.96	0.10	-0.86	24.00	Pass	
HE20	MCS0	2	181	6855	52/40	0.00	0.00	-1.43	-0.95	1.83	0.10	1.93	24.00	Pass	
HE20	MCS0	2	181	6855	106/54	0.00	0.00	1.48	2.12	4.82	0.10	4.92	24.00	Pass	
HE20	MCS0	2	185	6875	Full	0.00	0.00	5.12	5.95	8.57	0.10	8.67	24.00	Pass	
HE20	MCS0	2	185	6875	26/8	0.00	0.00	-4.99	-3.63	-1.25	0.10	-1.15	24.00	Pass	
HE20	MCS0	2	185	6875	52/40	0.00	0.00	-1.43	-0.69	1.97	0.10	2.07	24.00	Pass	
HE20	MCS0	2	185	6875	106/54	0.00	0.00	1.87	2.15	5.02	0.10	5.12	24.00	Pass	
HE40	MCS0	2	123	6565	Full	0.00	0.00	7.65	8.34	11.02	0.10	11.12	24.00	Pass	
HE40	MCS0	2	123	6565	242/61	0.00	0.00	4.75	5.31	8.05	0.10	8.15	24.00	Pass	
HE40	MCS0	2	147	6685	Full	0.00	0.00	8.05	7.89	10.98	0.10	11.08	24.00	Pass	
HE40	MCS0	2	147	6685	242/61	0.00	0.00	4.37	5.48	7.97	0.10	8.07	24.00	Pass	
HE40	MCS0	2	179	6845	Full	0.00	0.00	8.31	8.36	11.35	0.10	11.45	24.00	Pass	
HE40	MCS0	2	179	6845	242/62	0.00	0.00	5.12	5.05	8.10	0.10	8.20	24.00	Pass	
HE40	MCS0	2	187	6885	Full	0.00	0.00	8.05	8.35	11.21	0.10	11.31	24.00	Pass	
HE40	MCS0	2	187	6885	484/65	0.00	0.00	4.64	5.15	7.91	0.10	8.01	24.00	Pass	
HE80	MCS0	2	135	6625	Full	0.00	0.00	10.68	10.66	13.68	0.10	13.78	24.00	Pass	
HE80	MCS0	2	135	6625	484/65	0.04	0.04	7.26	8.32	10.84	0.10	10.94	24.00	Pass	
HE80	MCS0	2	151	6705	Full	0.00	0.00	10.85	10.47	13.67	0.10	13.77	24.00	Pass	
HE80	MCS0	2	151	6705	484/65	0.04	0.04	7.96	7.82	10.91	0.10	11.01	24.00	Pass	
HE80	MCS0	2	167	6785	Full	0.00	0.00	11.58	10.74	14.19	0.10	14.29	24.00	Pass	
HE80	MCS0	2	167	6785	484/66	0.00	0.00	8.89	7.70	11.35	0.10	11.45	24.00	Pass	
HE80	MCS0	2	183	6865	Full	0.00	0.00	11.04	11.21	14.14	0.10	14.24	24.00	Pass	
HE80	MCS0	2	183	6865	484/66	0.04	0.04	8.36	8.08	11.24	0.10	11.34	24.00	Pass	
HE160	MCS0	2	143	6665	Full	0.03	0.03	13.28	13.08	16.19	0.10	16.29	24.00	Pass	
HE160	MCS0	2	143	6665	996/68	0.05	0.05	11.23	10.50	13.89	0.10	13.99	24.00	Pass	
HE160	MCS0	2	175	6825	Full	0.03	0.03	14.19	13.66	16.94	0.10	17.04	24.00	Pass	
HE160	MCS0	2	175	6825	996/67	0.05	0.05	11.69	11.36	14.53	0.10	14.63	24.00	Pass	

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	189	6895	Full	0.00	0.00	6.68	6.94	9.82	-0.73	9.09	24.00	Pass	
HE20	MCS0	2	189	6895	26/0	0.00	0.00	-2.52	-2.96	0.28	-0.73	-0.45	24.00	Pass	
HE20	MCS0	2	189	6895	52/37	0.00	0.00	0.31	0.44	3.39	-0.73	2.66	24.00	Pass	
HE20	MCS0	2	189	6895	106/53	0.00	0.00	3.31	3.04	6.19	-0.73	5.46	24.00	Pass	
HE20	MCS0	2	209	6995	Full	0.00	0.00	6.64	5.78	9.24	-0.73	8.51	24.00	Pass	
HE20	MCS0	2	209	6995	26/0	0.00	0.00	-3.02	-3.63	-0.30	-0.73	-1.03	24.00	Pass	
HE20	MCS0	2	209	6995	52/37	0.00	0.00	-1.26	-0.46	2.17	-0.73	1.44	24.00	Pass	
HE20	MCS0	2	209	6995	106/53	0.00	0.00	2.47	2.65	5.57	-0.73	4.84	24.00	Pass	
HE20	MCS0	2	229	7095	Full	0.00	0.00	6.49	6.44	9.48	-0.73	8.75	24.00	Pass	
HE20	MCS0	2	229	7095	26/8	0.00	0.00	-3.53	-2.96	-0.23	-0.73	-0.96	24.00	Pass	
HE20	MCS0	2	229	7095	52/40	0.00	0.00	-0.56	0.18	2.84	-0.73	2.11	24.00	Pass	
HE20	MCS0	2	229	7095	106/54	0.00	0.00	2.15	3.31	5.78	-0.73	5.05	24.00	Pass	
HE20	MCS0	2	233	7115	Full	0.00	0.00	6.28	6.32	9.31	-0.73	8.58	24.00	Pass	
HE20	MCS0	2	233	7115	26/8	0.00	0.00	-13.03	-13.36	-10.18	-0.73	-10.91	24.00	Pass	
HE20	MCS0	2	233	7115	52/40	0.00	0.00	-10.28	-10.45	-7.35	-0.73	-8.08	24.00	Pass	
HE20	MCS0	2	233	7115	106/54	0.00	0.00	-7.37	-7.45	-4.40	-0.73	-5.13	24.00	Pass	
HE40	MCS0	2	195	6925	Full	0.00	0.00	9.65	9.04	12.37	-0.73	11.64	24.00	Pass	
HE40	MCS0	2	195	6925	242/61	0.00	0.00	6.15	6.78	9.49	-0.73	8.76	24.00	Pass	
HE40	MCS0	2	211	7005	Full	0.00	0.00	9.85	9.04	12.47	-0.73	11.74	24.00	Pass	
HE40	MCS0	2	211	7005	242/62	0.00	0.00	7.11	6.14	9.66	-0.73	8.93	24.00	Pass	
HE40	MCS0	2	227	7085	Full	0.00	0.00	9.39	8.67	12.06	-0.73	11.33	24.00	Pass	
HE40	MCS0	2	227	7085	242/62	0.00	0.00	6.54	6.24	9.40	-0.73	8.67	24.00	Pass	
HE80	MCS0	2	199	6945	Full	0.00	0.00	12.43	11.47	14.99	-0.73	14.26	24.00	Pass	
HE80	MCS0	2	199	6945	484/65	0.04	0.04	9.35	8.58	12.00	-0.73	11.27	24.00	Pass	
HE80	MCS0	2	215	7025	Full	0.00	0.00	11.69	11.48	14.60	-0.73	13.87	24.00	Pass	
HE80	MCS0	2	215	7025	484/66	0.04	0.04	8.93	8.60	11.78	-0.73	11.05	24.00	Pass	
HE160	MCS0	2	207	6985	Full	0.03	0.03	15.18	14.28	17.76	-0.73	17.03	24.00	Pass	
HE160	MCS0	2	207	6985	996/68	0.05	0.05	12.41	12.11	15.27	-0.73	14.54	24.00	Pass	



Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
11A-CDD	Ant0	5955	19.44	5945.24	5964.68	---	---	
	Ant1	5955	19.36	5945.36	5964.72	---	---	
	Ant0	6195	19.32	6185.24	6204.56	---	---	
	Ant1	6195	19.32	6185.40	6204.72	---	---	
	Ant0	6415	19.28	6405.28	6424.56	---	---	
	Ant1	6415	19.24	6405.44	6424.68	---	---	
	Ant0	6435	19.20	6425.28	6444.48	---	---	
	Ant1	6435	19.28	6425.36	6444.64	---	---	
	Ant0	6475	19.16	6465.32	6484.48	---	---	
	Ant1	6475	19.28	6465.36	6484.64	---	---	
	Ant0	6515	19.32	6505.36	6524.68	---	---	
	Ant1	6515	19.36	6505.36	6524.72	---	---	
	Ant0	6535	19.16	6525.40	6544.56	---	---	
	Ant1	6535	19.20	6525.40	6544.60	---	---	
	Ant0	6695	19.08	6685.32	6704.40	---	---	
	Ant1	6695	19.36	6685.36	6704.72	---	---	
	Ant0	6855	19.24	6845.28	6864.52	---	---	
	Ant1	6855	19.40	6845.32	6864.72	---	---	
	Ant0	6875	19.40	6865.32	6884.72	---	---	
	Ant1	6875	19.36	6865.32	6884.68	---	---	
	Ant0	6895	19.04	6885.36	6904.40	---	---	
	Ant1	6895	19.40	6885.32	6904.72	---	---	
	Ant0	6995	19.04	6985.36	7004.40	---	---	
	Ant1	6995	19.36	6985.32	7004.68	---	---	
	Ant0	7095	19.08	7085.40	7104.48	---	---	
	Ant1	7095	19.40	7085.36	7104.76	---	---	
	Ant0	7115	19.20	7105.32	7124.52	---	---	
	Ant1	7115	19.16	7105.44	7124.60	---	---	
	11AX20 MIMO SDM	Ant0	5955	21.04	5944.44	5965.48	---	---
		Ant1	5955	21.12	5944.44	5965.56	---	---
Ant0		6195	20.92	6184.52	6205.44	---	---	
Ant1		6195	21.32	6184.36	6205.68	---	---	
Ant0		6415	21.20	6404.48	6425.68	---	---	
Ant1		6415	21.12	6404.48	6425.60	---	---	
Ant0		6435	21.16	6424.32	6445.48	---	---	
Ant1		6435	21.08	6424.48	6445.56	---	---	
Ant0		6475	21.08	6464.56	6485.64	---	---	



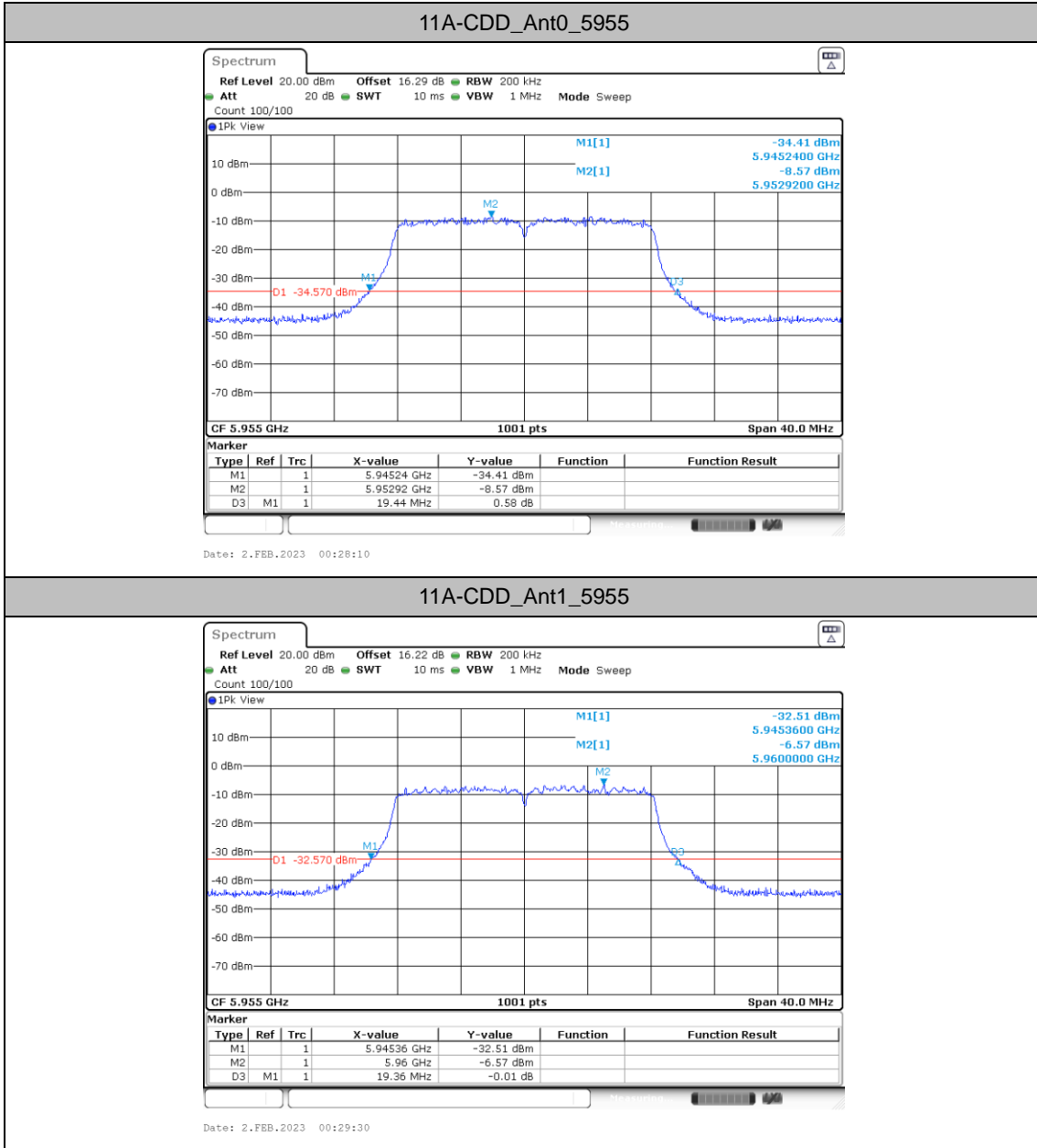
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	Ant0	6535	21.20	6524.44	6545.64	---	---
	Ant1	6535	21.12	6524.44	6545.56	---	---
	Ant0	6695	21.20	6684.36	6705.56	---	---
	Ant1	6695	21.12	6684.44	6705.56	---	---
	Ant0	6855	21.24	6844.20	6865.44	---	---
	Ant1	6855	21.16	6844.40	6865.56	---	---
	Ant0	6875	21.36	6864.36	6885.72	---	---
	Ant1	6875	21.04	6864.48	6885.52	---	---
	Ant0	6895	21.04	6884.56	6905.60	---	---
	Ant1	6895	21.12	6884.40	6905.52	---	---
	Ant0	6995	21.36	6984.36	7005.72	---	---
	Ant1	6995	21.16	6984.36	7005.52	---	---
	Ant0	7095	21.24	7084.44	7105.68	---	---
	Ant1	7095	21.20	7084.40	7105.60	---	---
	Ant0	7115	21.08	7104.48	7125.56	---	---
	Ant1	7115	21.08	7104.48	7125.56	---	---
11AX40MIMO SDM	Ant0	5965	41.12	5944.44	5985.56	---	---
	Ant1	5965	40.88	5944.68	5985.56	---	---
	Ant0	6205	41.04	6184.44	6225.48	---	---
	Ant1	6205	40.88	6184.52	6225.40	---	---
	Ant0	6405	41.12	6384.60	6425.72	---	---
	Ant1	6405	41.12	6384.44	6425.56	---	---
	Ant0	6445	40.88	6424.60	6465.48	---	---
	Ant1	6445	40.80	6424.52	6465.32	---	---
	Ant0	6485	41.04	6464.60	6505.64	---	---
	Ant1	6485	40.88	6464.60	6505.48	---	---
	Ant0	6525	41.12	6504.52	6545.64	---	---
	Ant1	6525	40.88	6504.52	6545.40	---	---
	Ant0	6565	40.80	6544.52	6585.32	---	---
	Ant1	6565	40.88	6544.60	6585.48	---	---
	Ant0	6685	40.64	6664.76	6705.40	---	---
	Ant1	6685	40.88	6664.60	6705.48	---	---
	Ant0	6845	39.44	6825.24	6864.68	---	---
	Ant1	6845	40.80	6824.60	6865.40	---	---
	Ant0	6885	40.72	6864.68	6905.40	---	---
	Ant1	6885	40.88	6864.68	6905.56	---	---
	Ant0	6925	40.88	6904.52	6945.40	---	---
	Ant1	6925	40.88	6904.52	6945.40	---	---
Ant0	7005	40.80	6984.52	7025.32	---	---	



	Ant1	7005	40.64	6984.76	7025.40	---	---
	Ant0	7085	40.80	7064.68	7105.48	---	---
	Ant1	7085	40.64	7064.76	7105.40	---	---
11AX80MIMO SDM	Ant0	5985	82.56	5943.72	6026.28	---	---
	Ant1	5985	82.56	5943.88	6026.44	---	---
	Ant0	6225	82.88	6183.40	6266.28	---	---
	Ant1	6225	82.08	6184.04	6266.12	---	---
	Ant0	6385	82.40	6343.72	6426.12	---	---
	Ant1	6385	82.72	6343.72	6426.44	---	---
	Ant0	6465	83.04	6423.56	6506.60	---	---
	Ant1	6465	82.40	6423.72	6506.12	---	---
	Ant0	6545	82.88	6503.72	6586.60	---	---
	Ant1	6545	82.56	6503.56	6586.12	---	---
	Ant0	6625	83.04	6583.88	6666.92	---	---
	Ant1	6625	82.56	6583.40	6665.96	---	---
	Ant0	6705	83.04	6663.56	6746.60	---	---
	Ant1	6705	82.72	6663.72	6746.44	---	---
	Ant0	6785	82.40	6743.88	6826.28	---	---
	Ant1	6785	82.72	6743.56	6826.28	---	---
	Ant0	6865	83.20	6823.72	6906.92	---	---
	Ant1	6865	83.04	6823.40	6906.44	---	---
	Ant0	6945	82.08	6904.04	6986.12	---	---
	Ant1	6945	82.24	6903.88	6986.12	---	---
Ant0	7025	82.40	6983.56	7065.96	---	---	
Ant1	7025	82.40	6983.72	7066.12	---	---	
11AX160MIMO SDM	Ant0	6025	165.44	5942.12	6107.56	---	---
	Ant1	6025	166.40	5942.12	6108.52	---	---
	Ant0	6185	165.44	6101.80	6267.24	---	---
	Ant1	6185	165.76	6102.12	6267.88	---	---
	Ant0	6345	165.44	6262.44	6427.88	---	---
	Ant1	6345	166.08	6262.12	6428.20	---	---
	Ant0	6505	165.76	6422.12	6587.88	---	---
	Ant1	6505	166.08	6421.48	6587.56	---	---
	Ant0	6665	166.08	6582.44	6748.52	---	---
	Ant1	6665	165.44	6582.12	6747.56	---	---
	Ant0	6825	166.08	6742.12	6908.20	---	---
	Ant1	6825	167.04	6741.80	6908.84	---	---
	Ant0	6985	166.72	6901.80	7068.52	---	---
Ant1	6985	164.16	6903.08	7067.24	---	---	

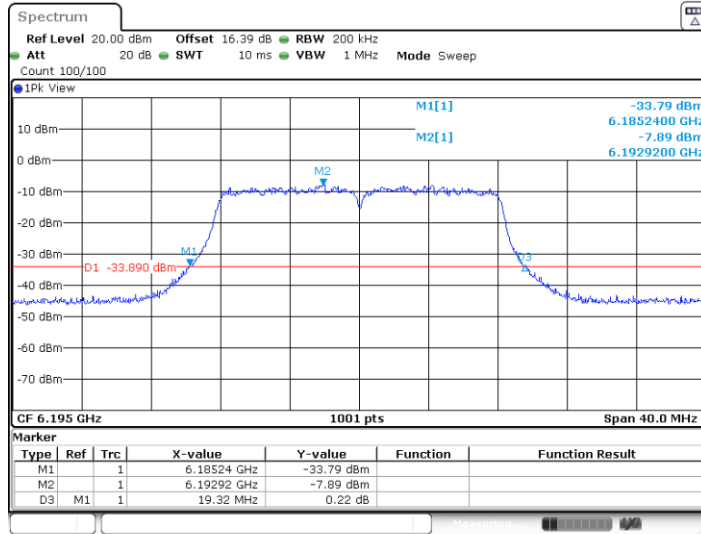


Test Graphs



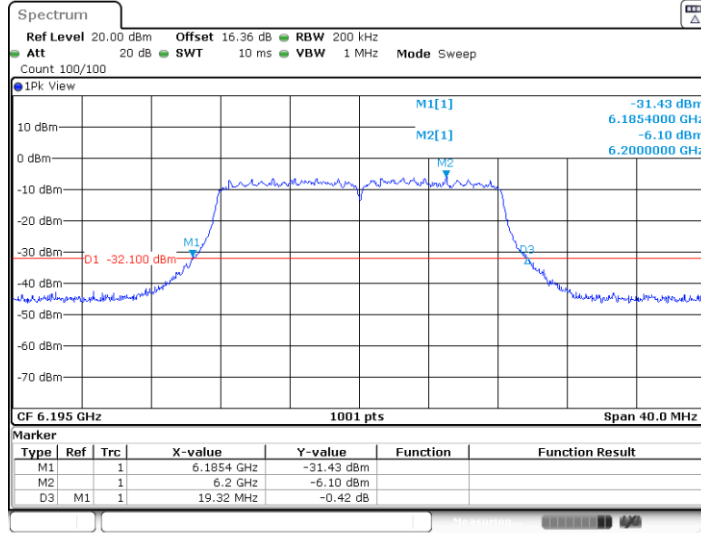


11A-CDD_Ant0_6195

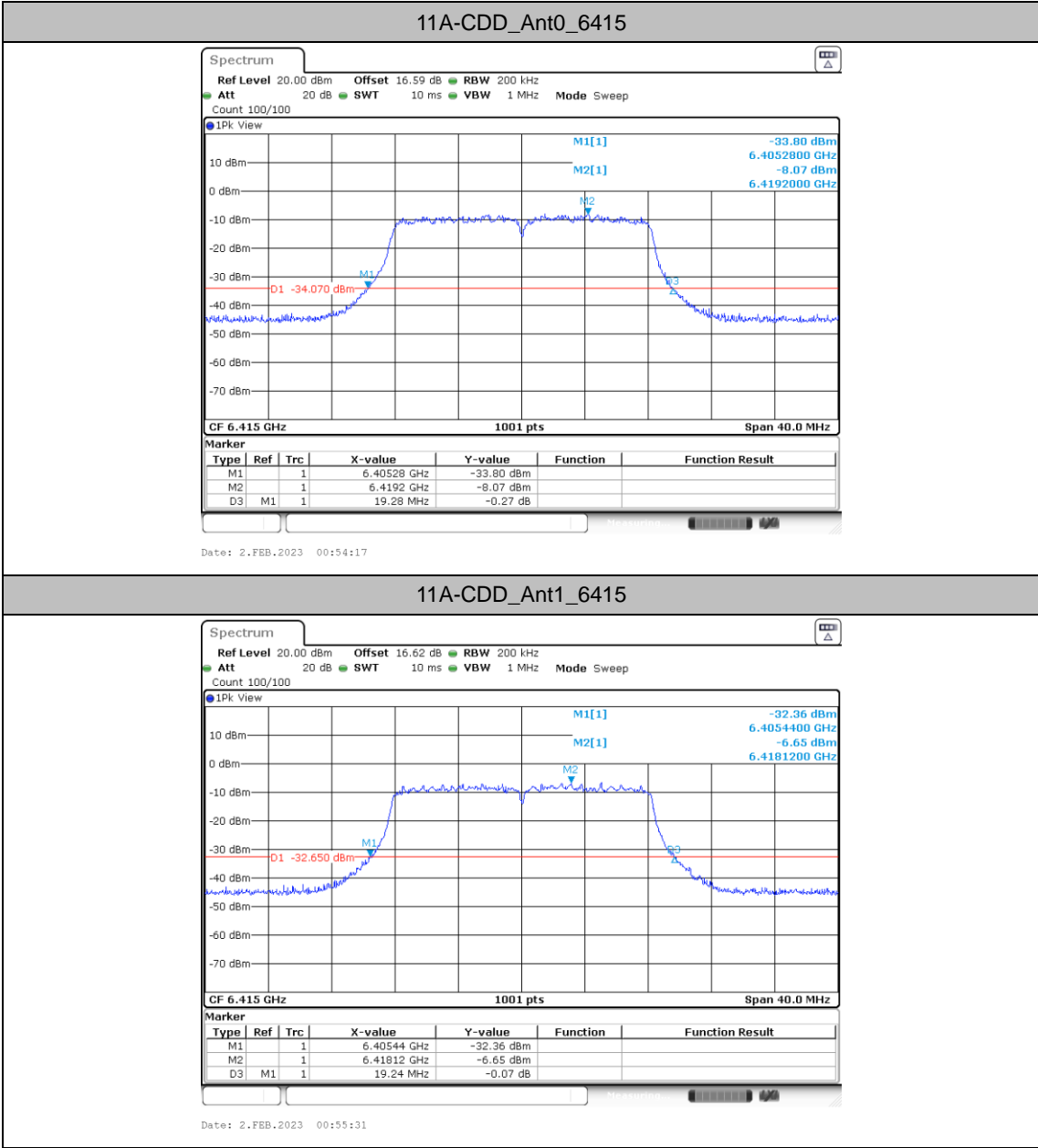


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11A-CDD_Ant1_6195

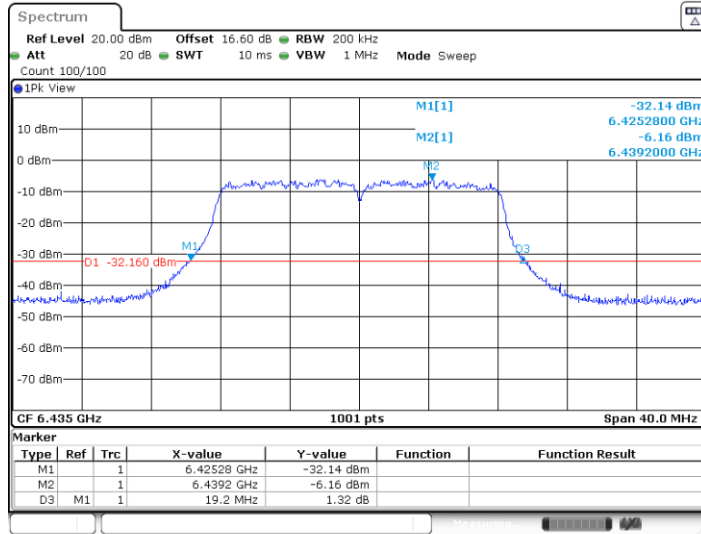


Date: 2.FEB.2023 00:52:56



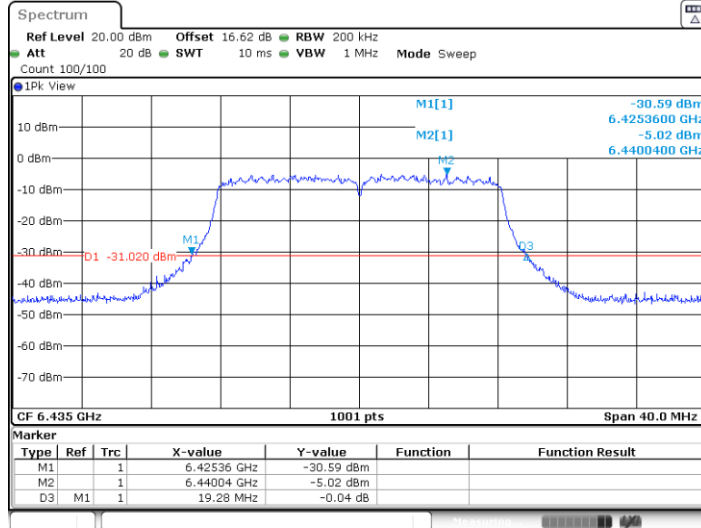


11A-CDD_Ant0_6435



Date: 2.FEB.2023 02:17:47

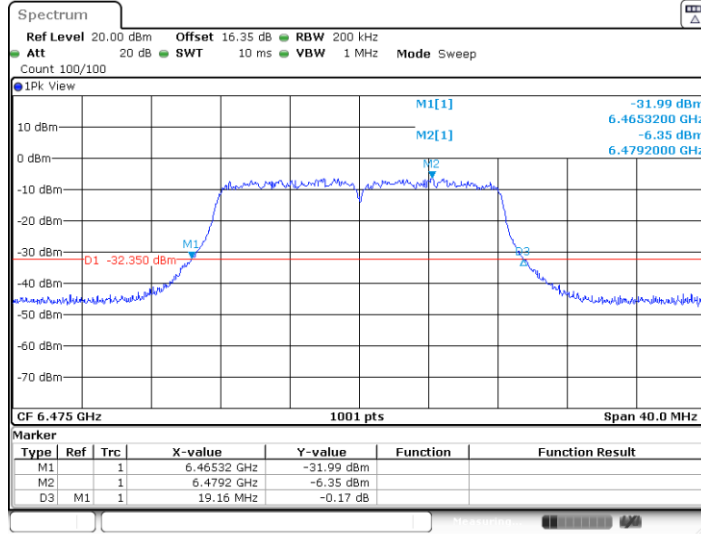
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Date: 2.FEB.2023 02:18:48

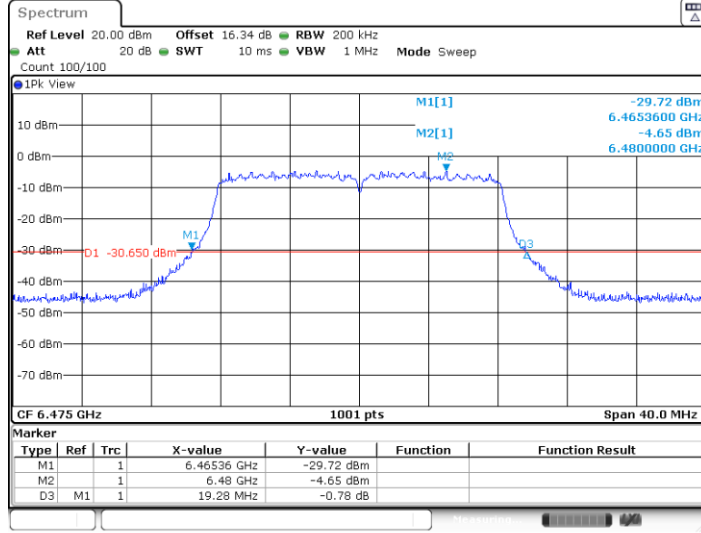


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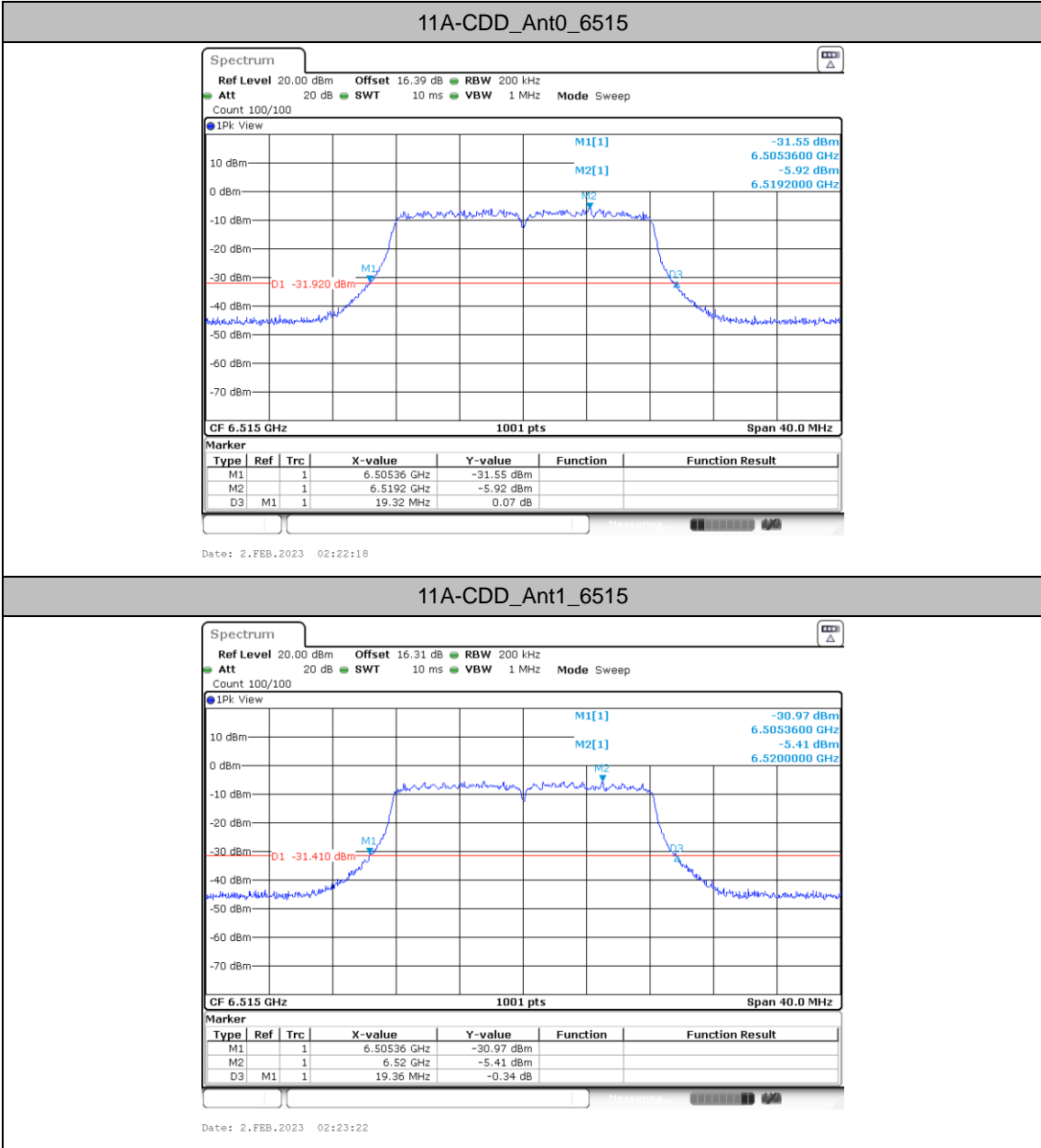


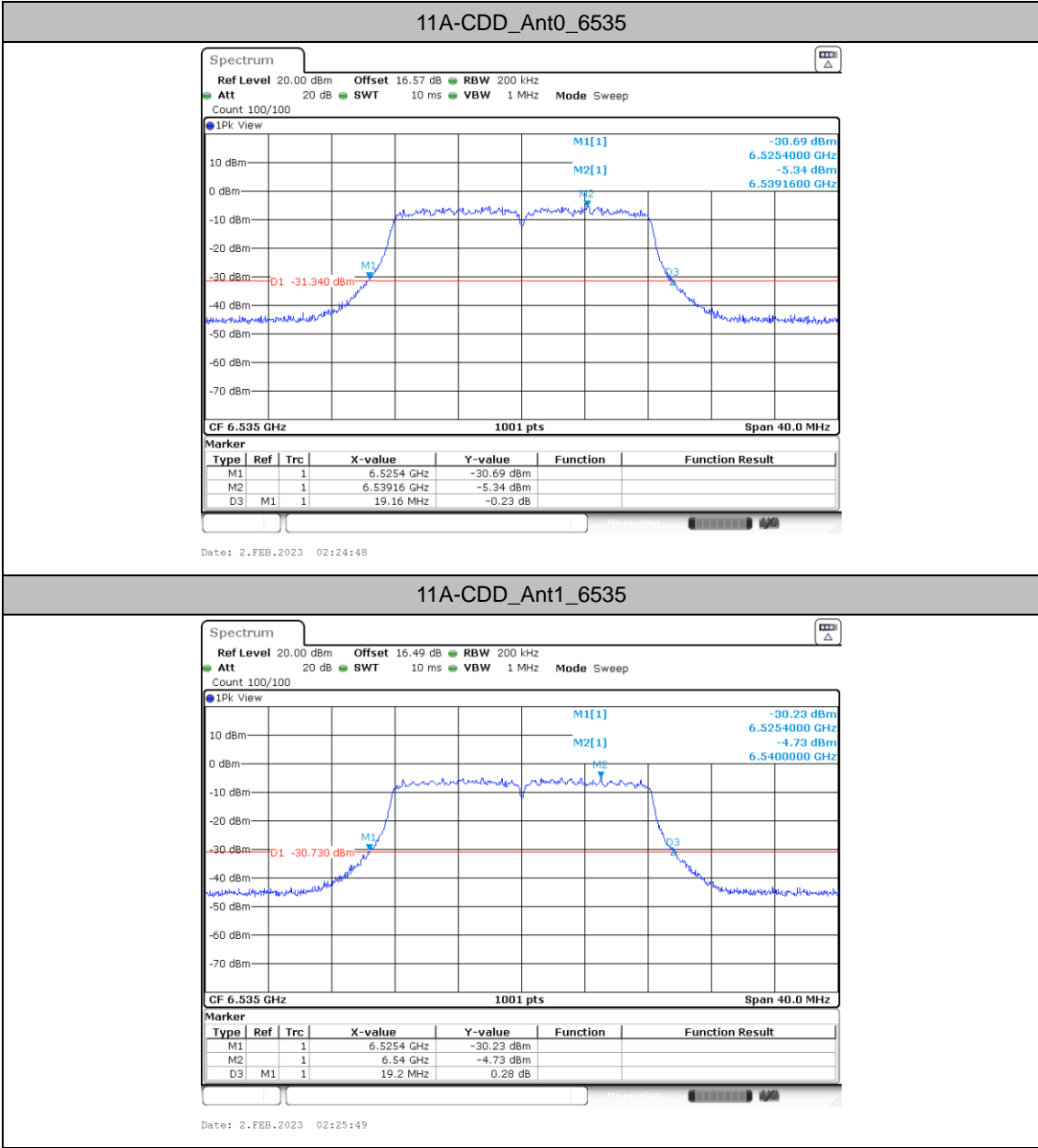
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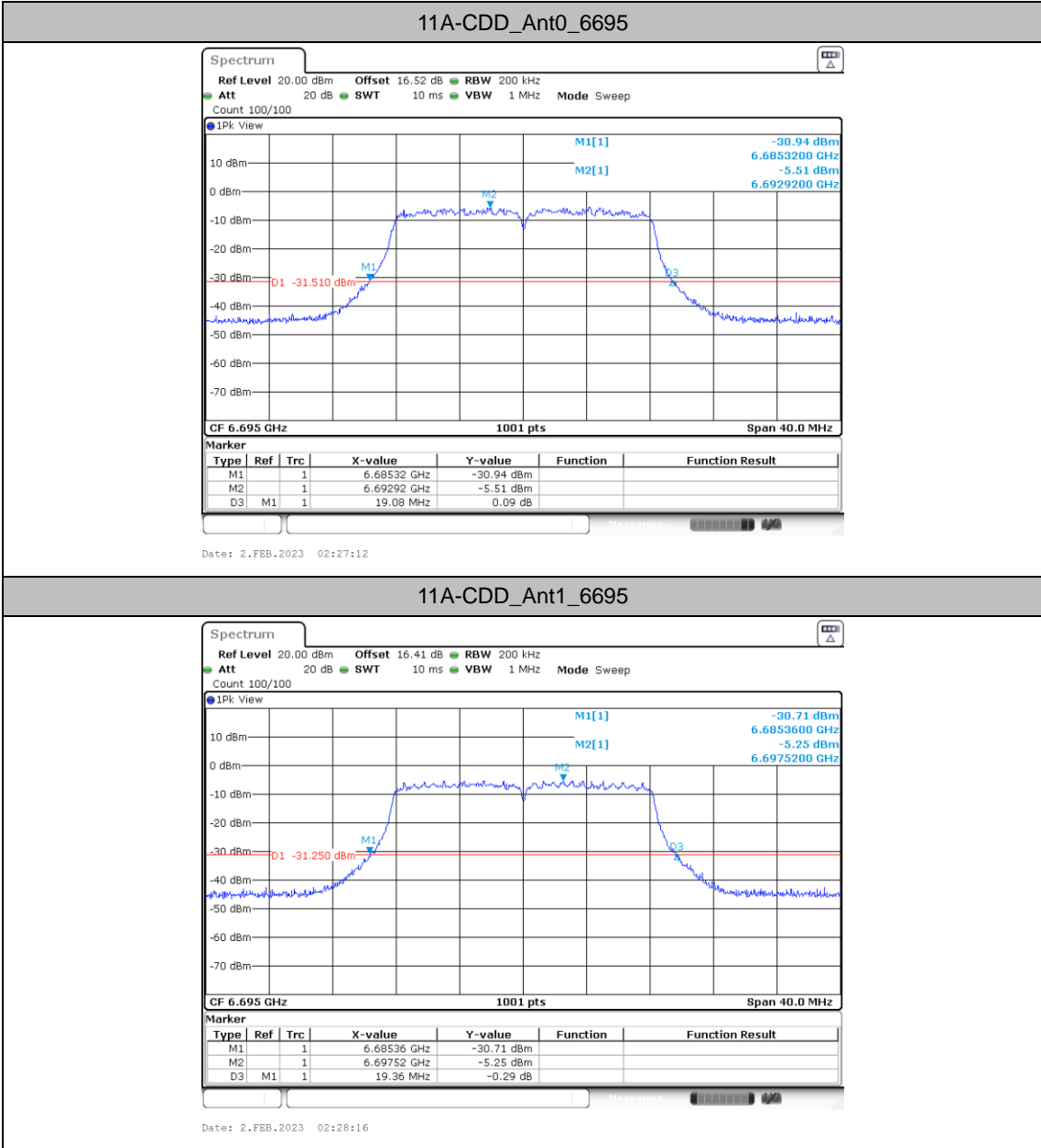
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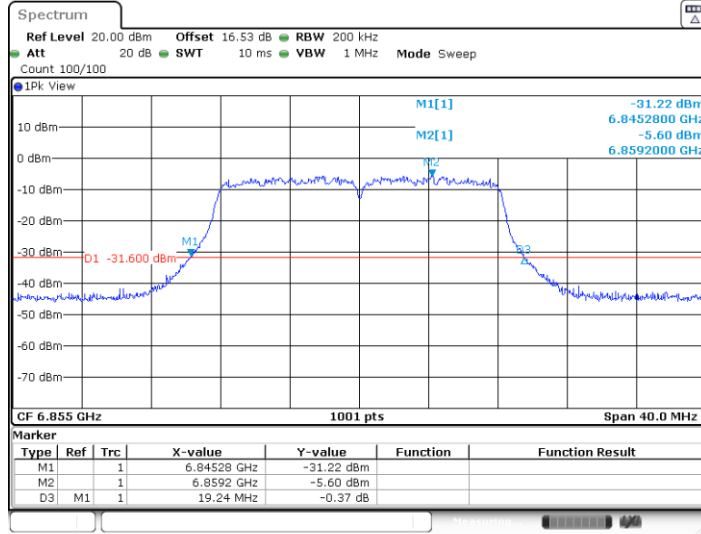






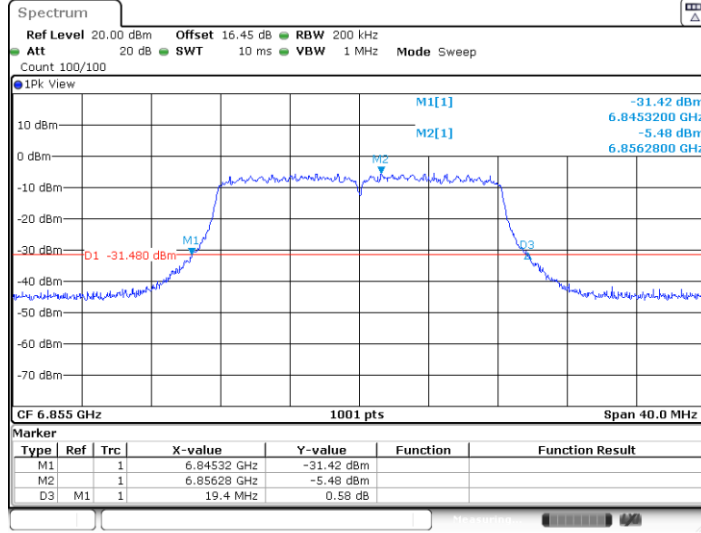


11A-CDD_Ant0_6855

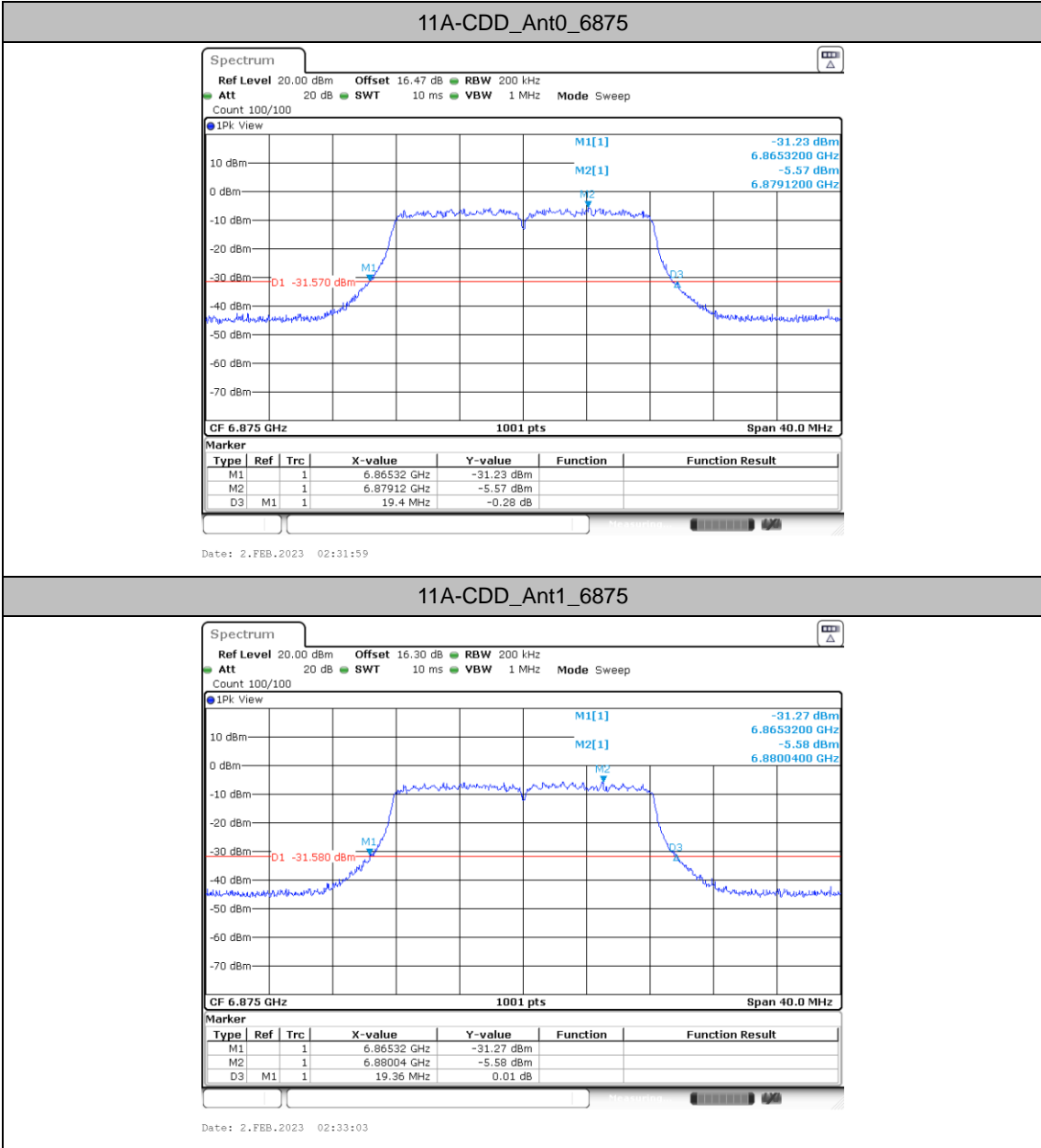


Date: 2.FEB.2023 02:29:32

11A-CDD_Ant1_6855

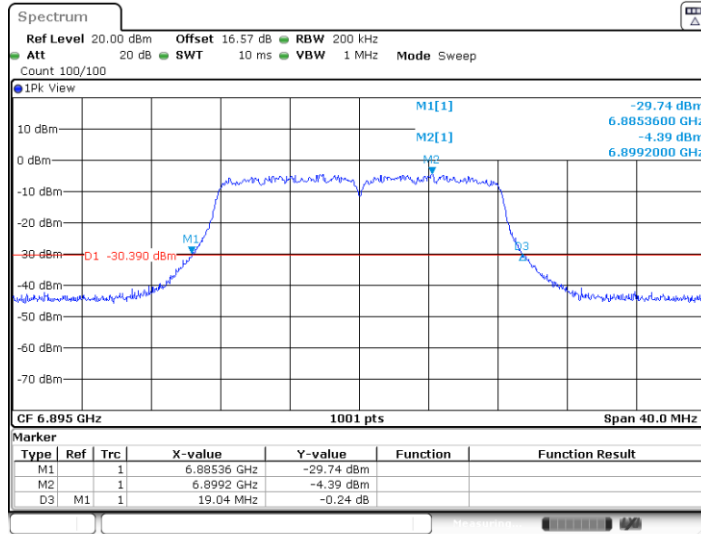


Date: 2.FEB.2023 02:30:36



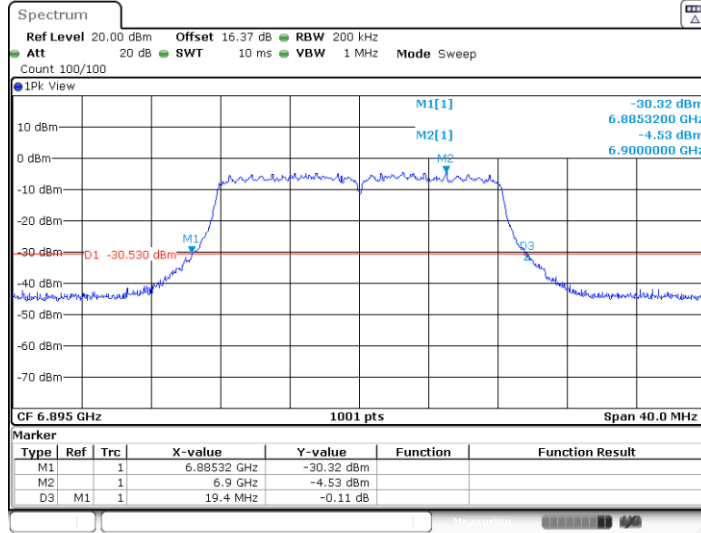


11A-CDD_Ant0_6895



Date: 2.FEB.2023 02:34:30

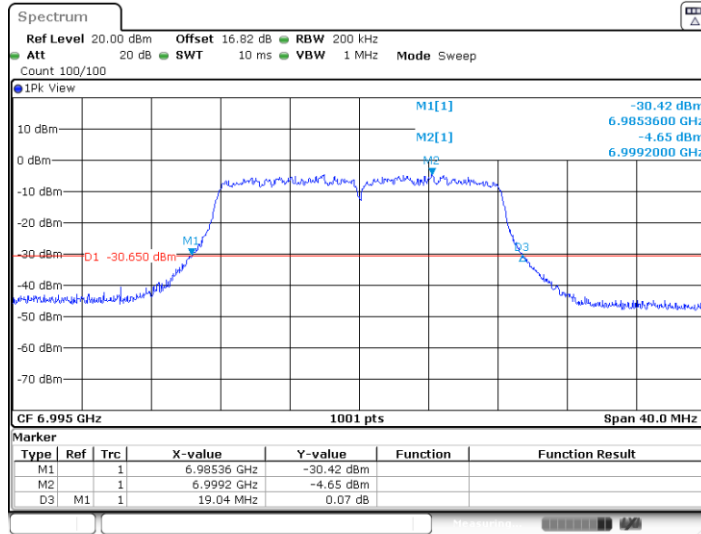
11A-CDD_Ant1_6895



Date: 2.FEB.2023 02:35:34

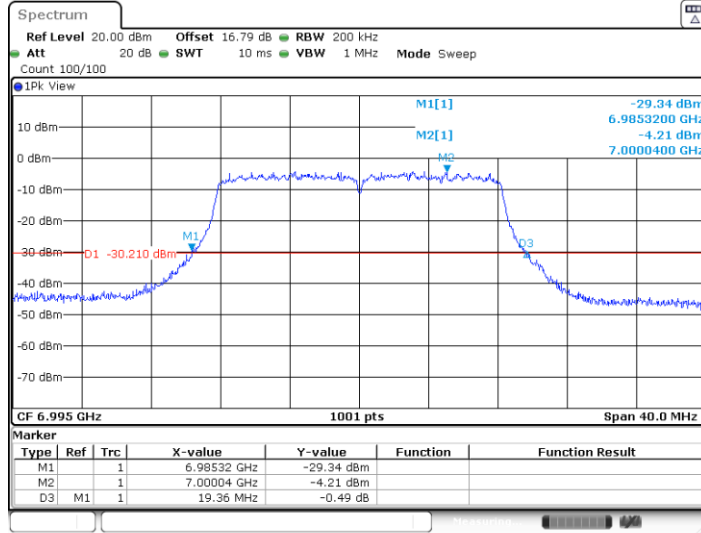


11A-CDD_Ant0_6995

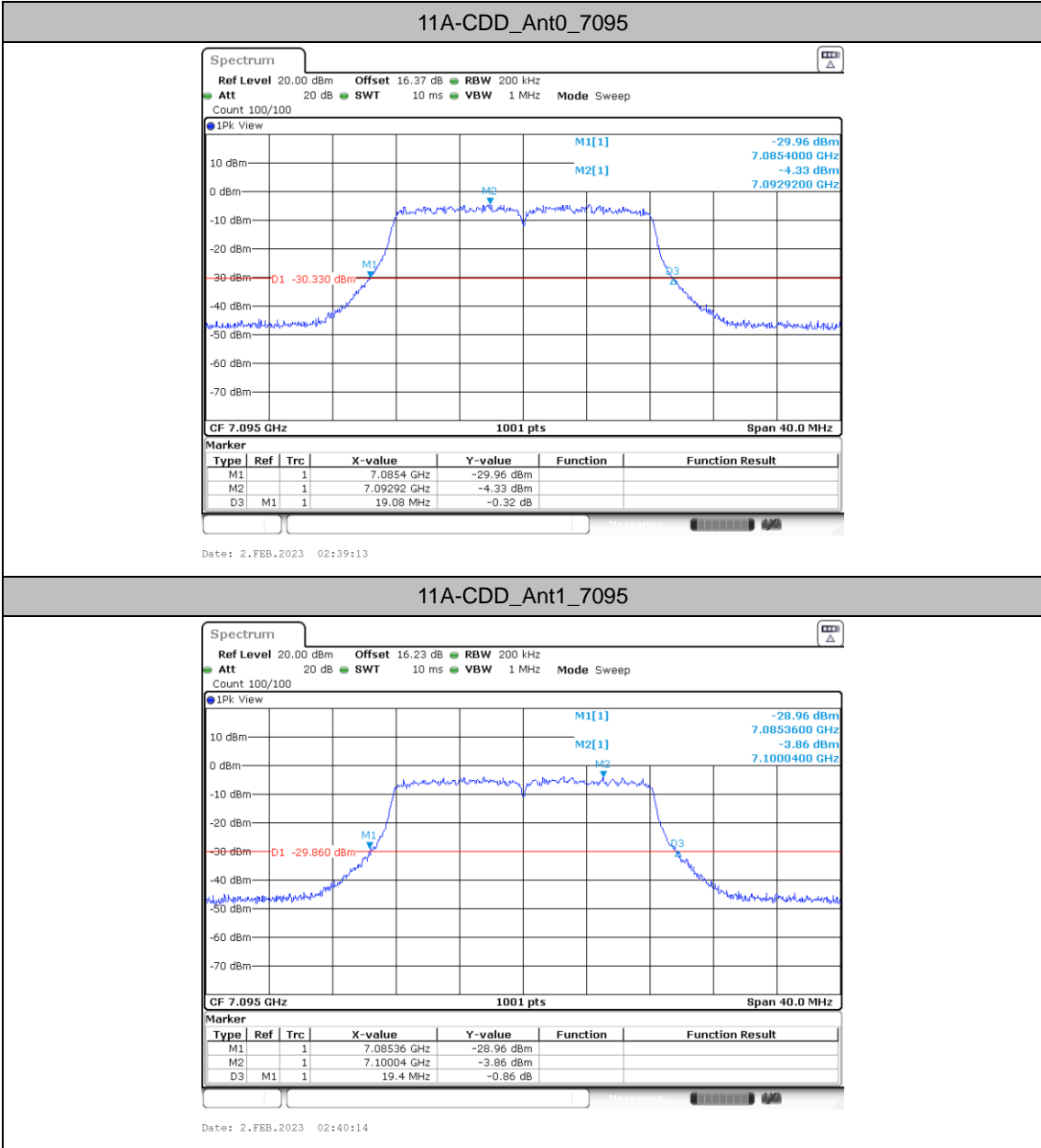


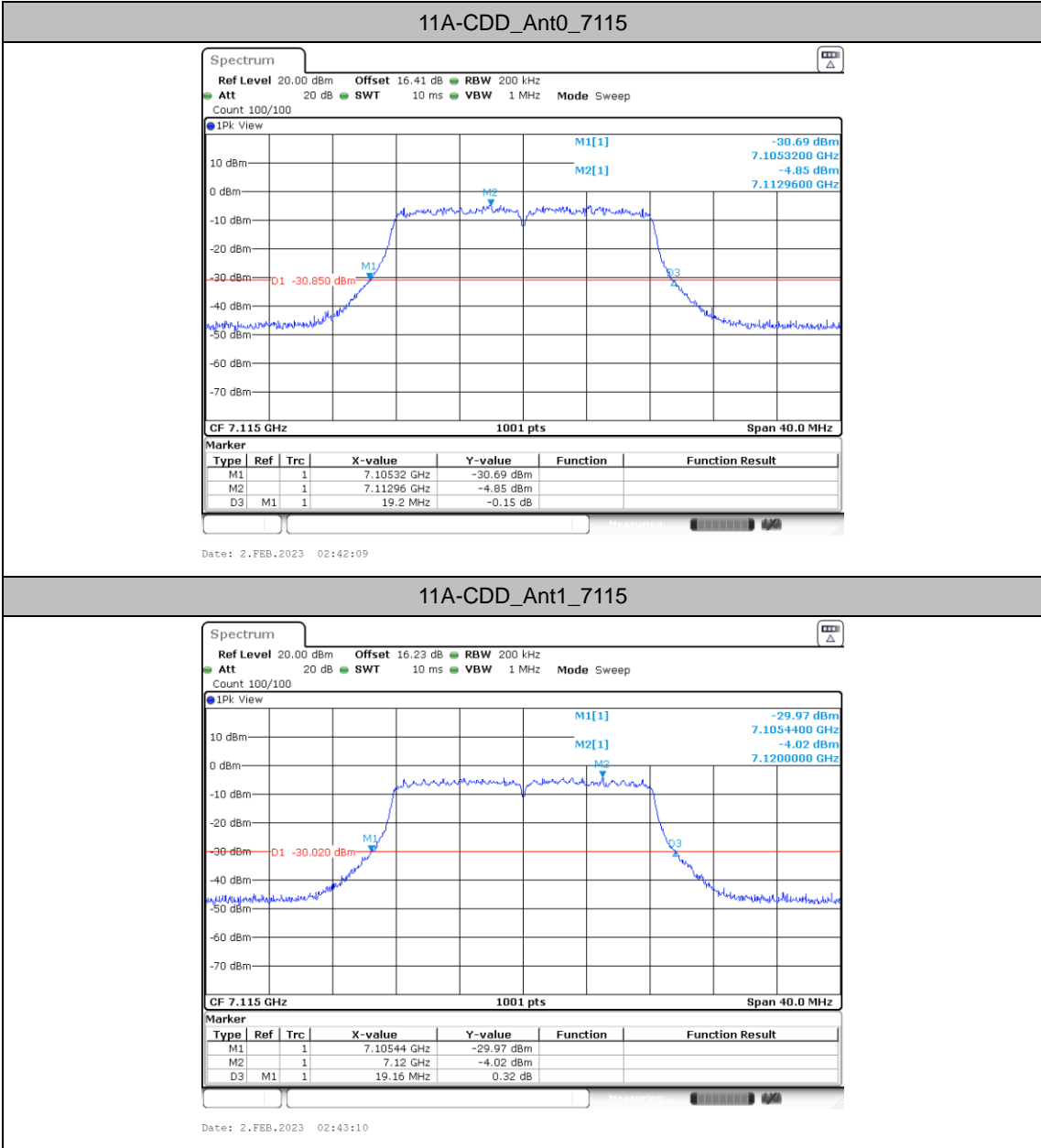
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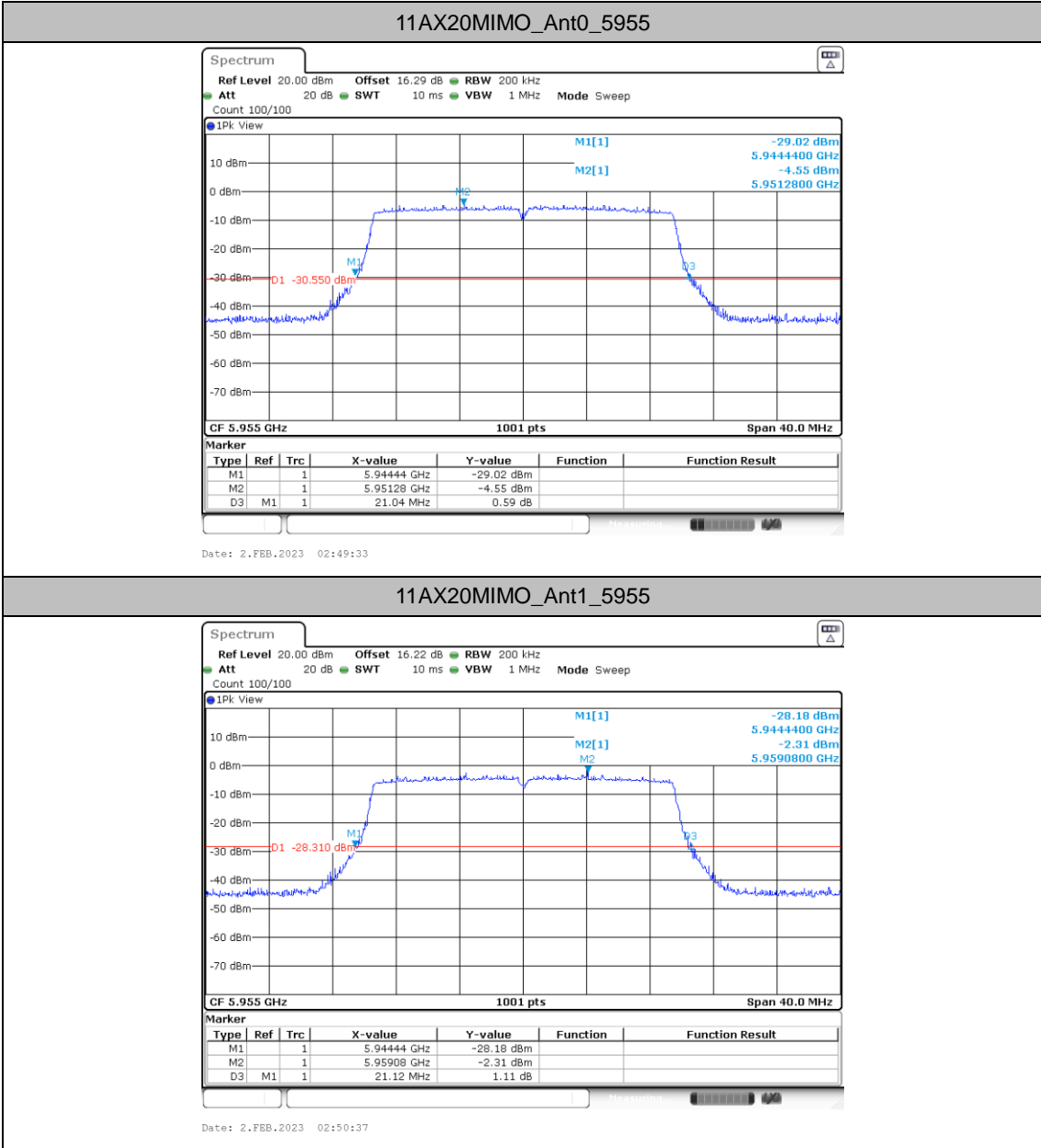
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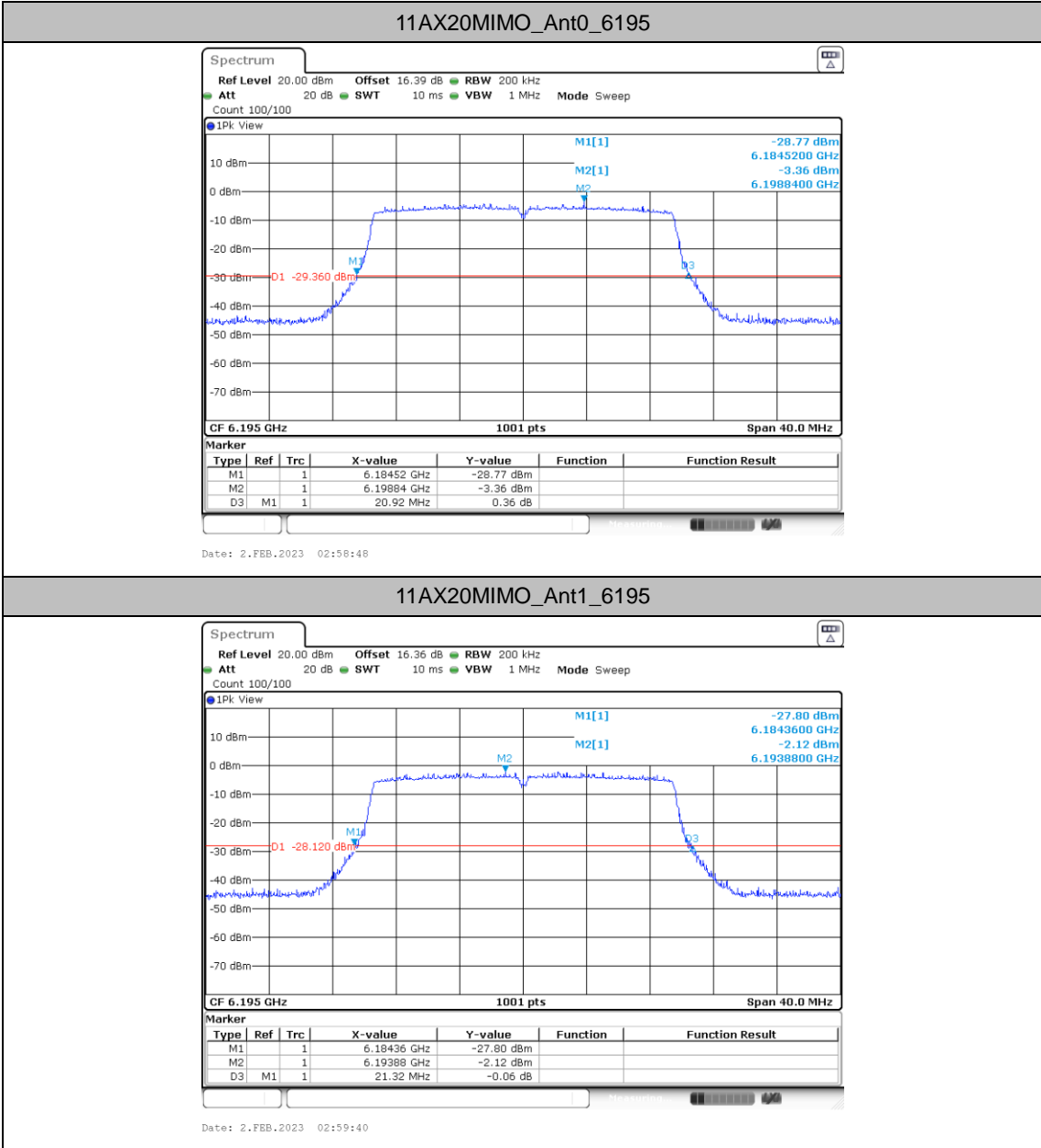


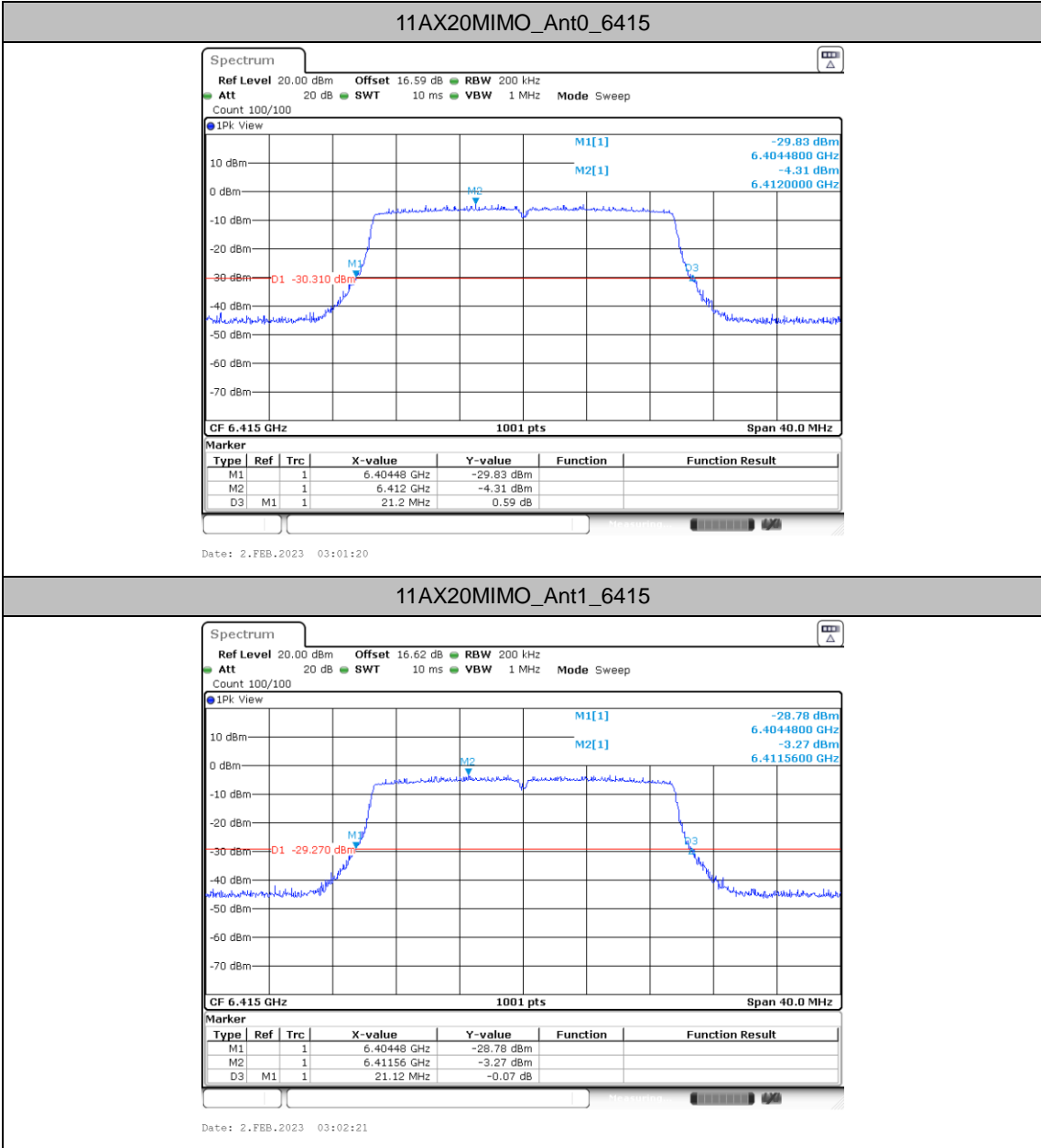
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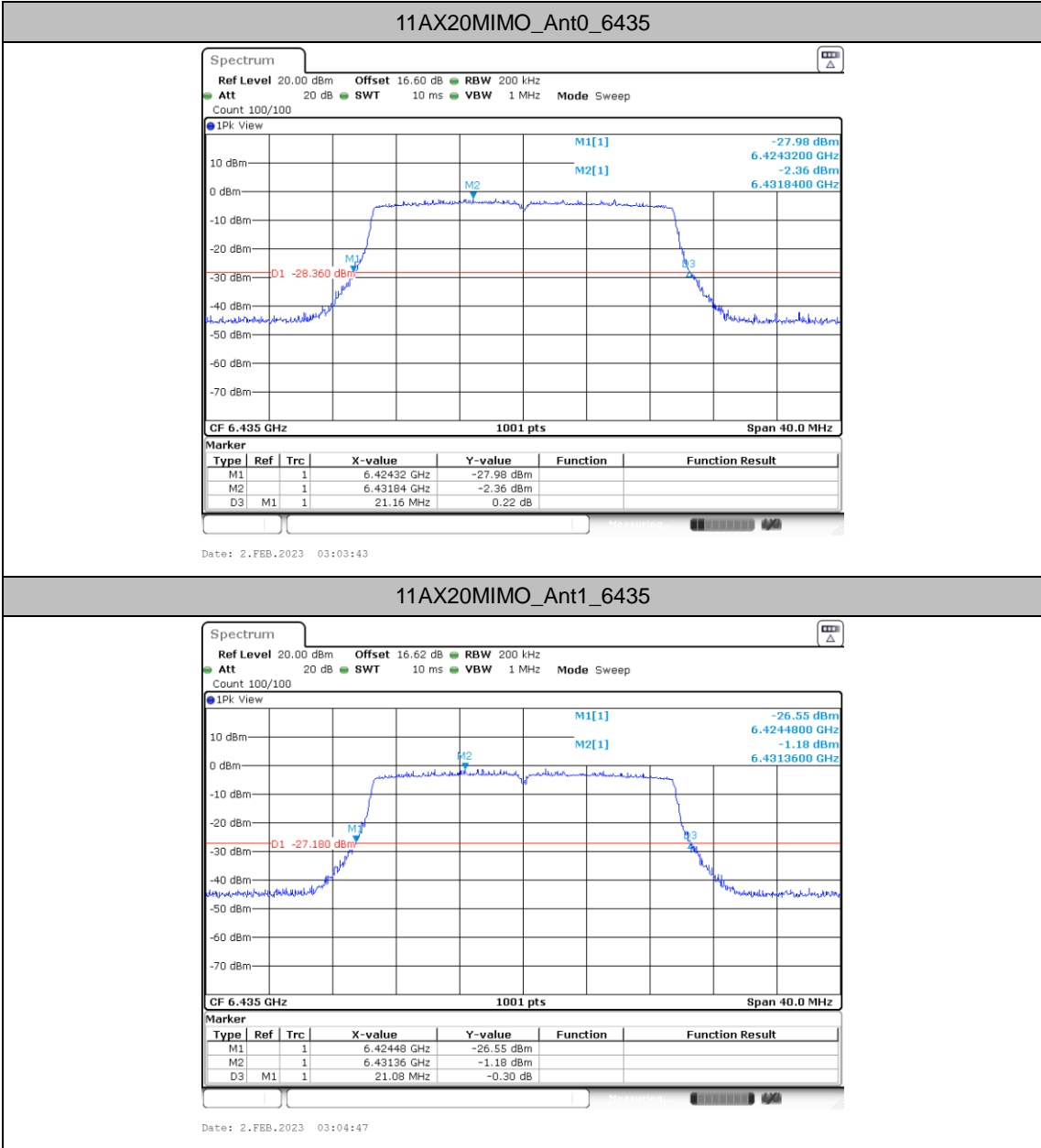


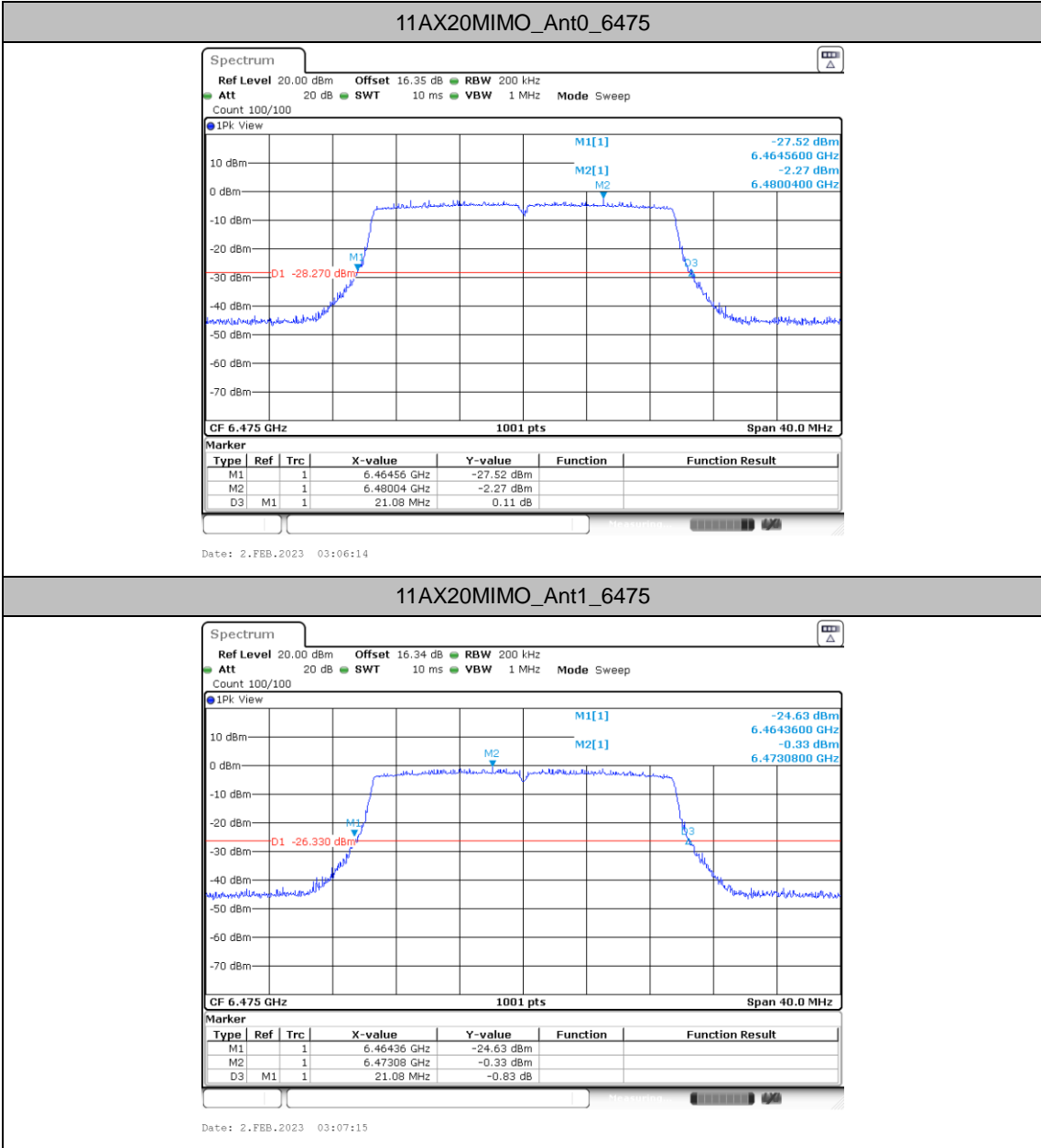






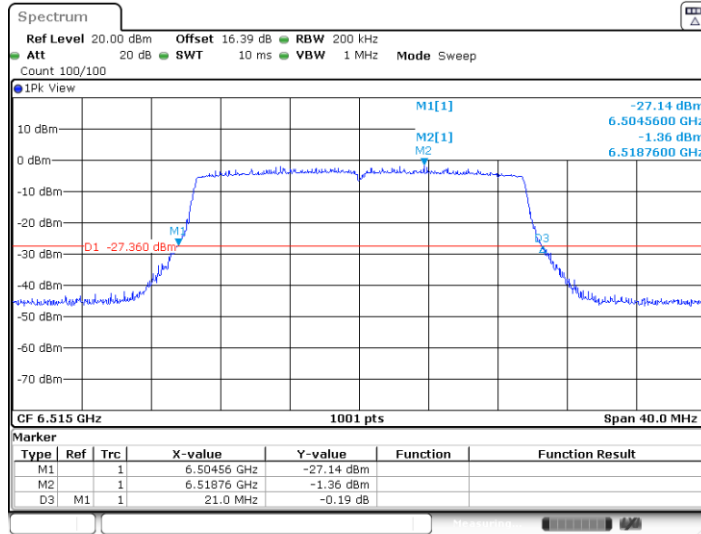




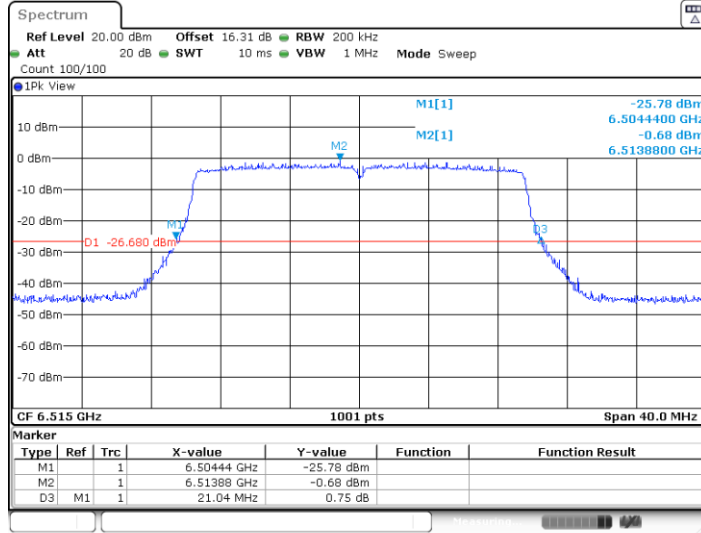


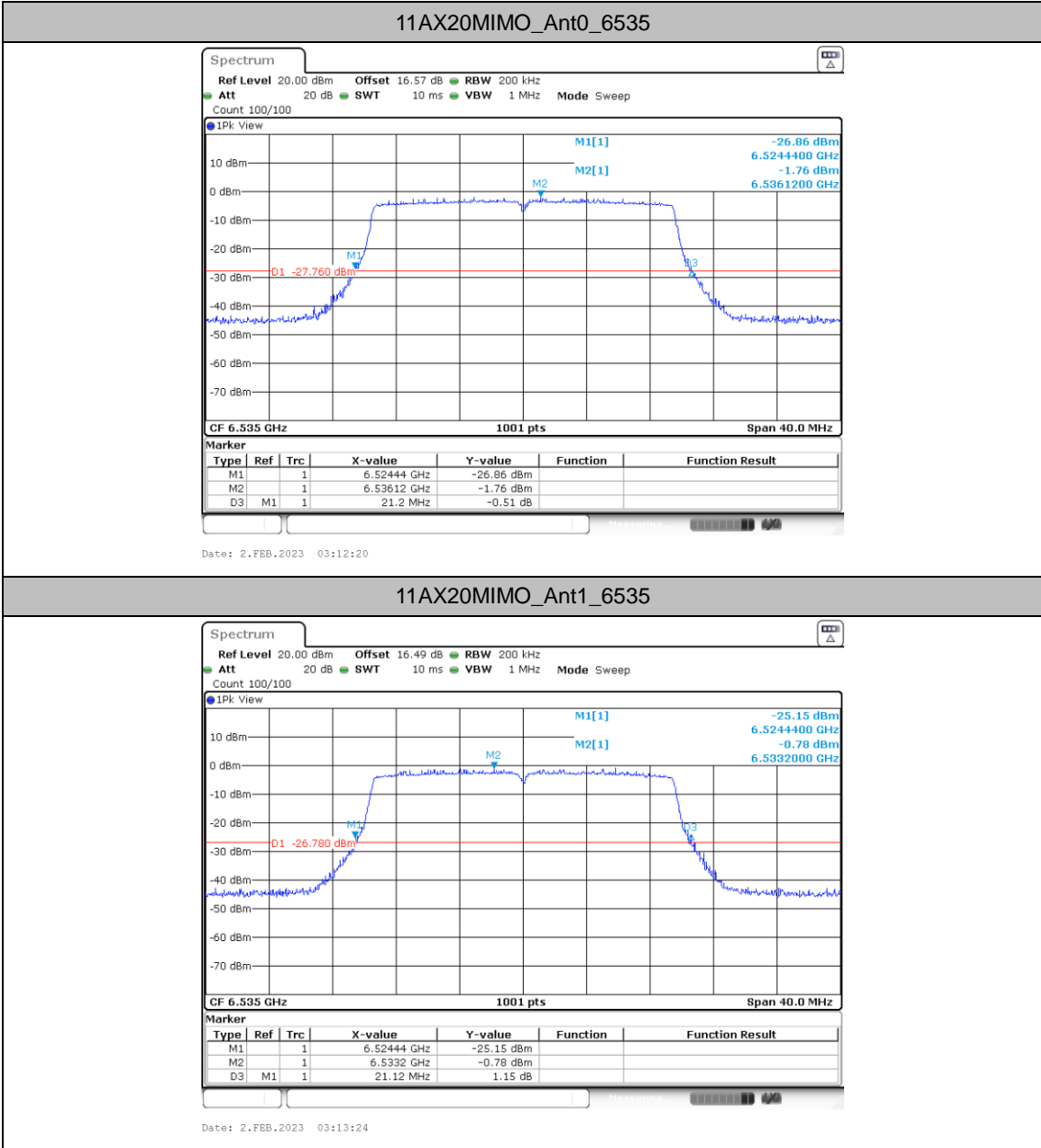


11AX20MIMO_Ant0_6515



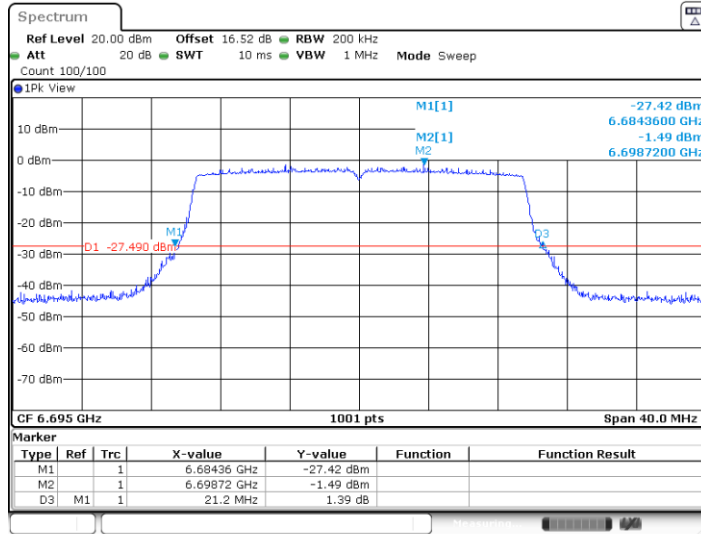
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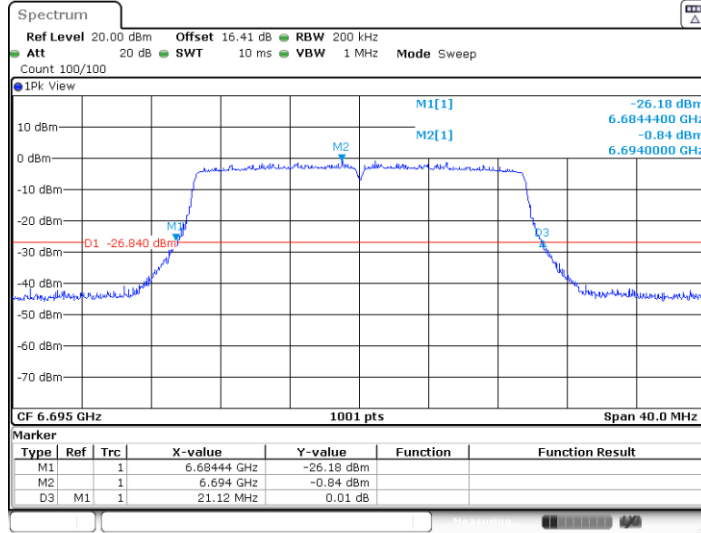


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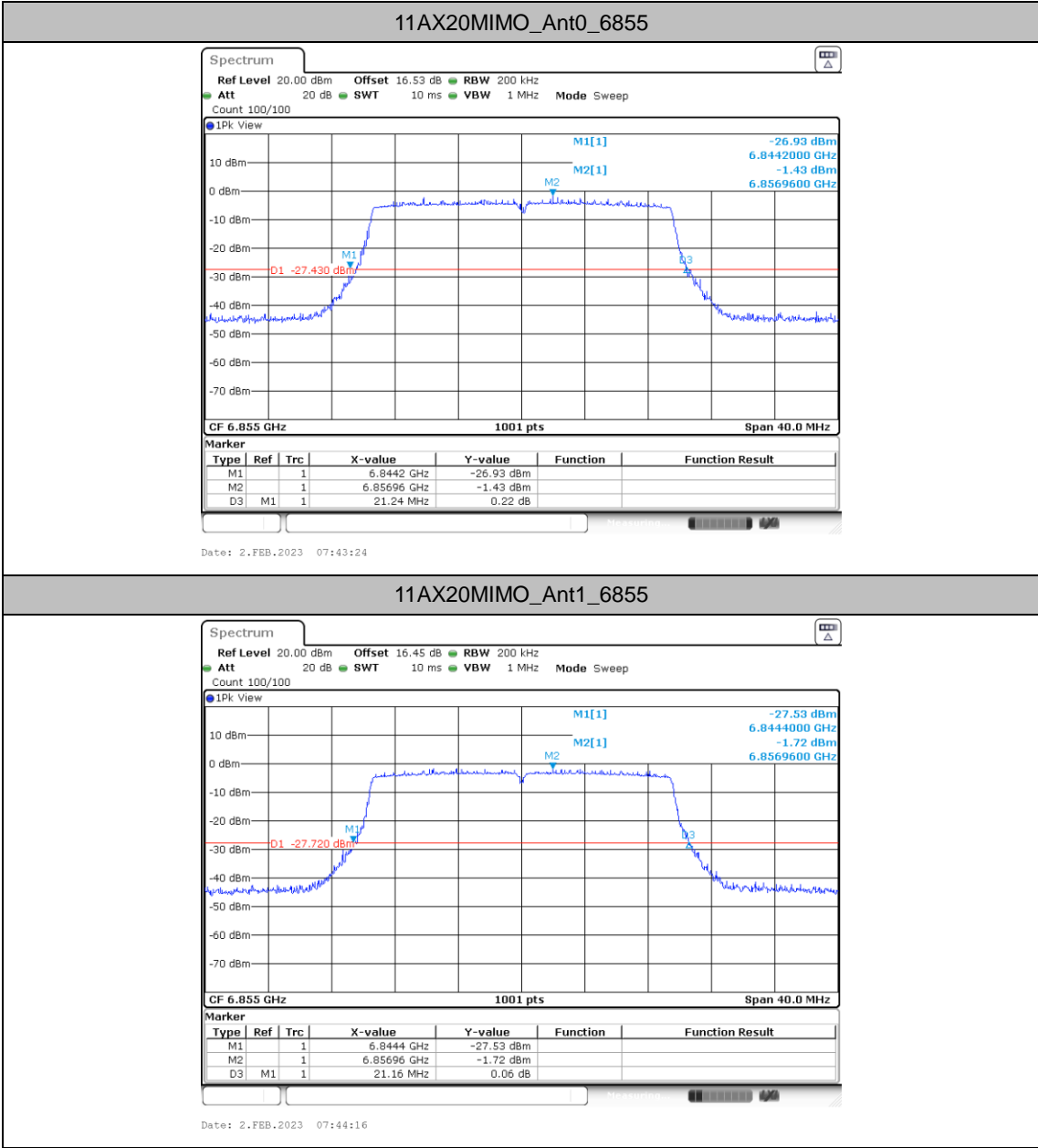


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11AX20MIMO_Ant1_6695

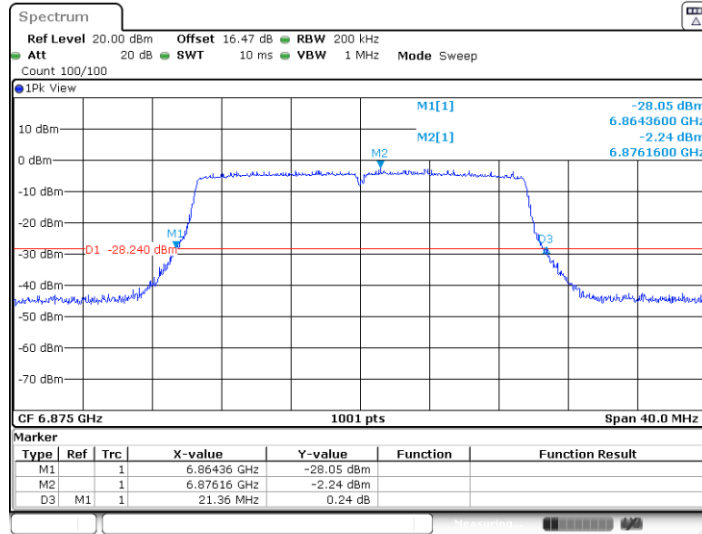


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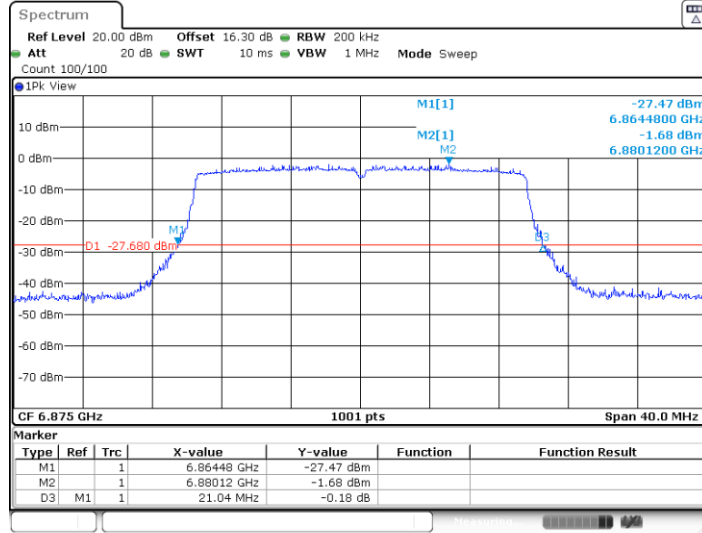




11AX20MIMO_Ant0_6875

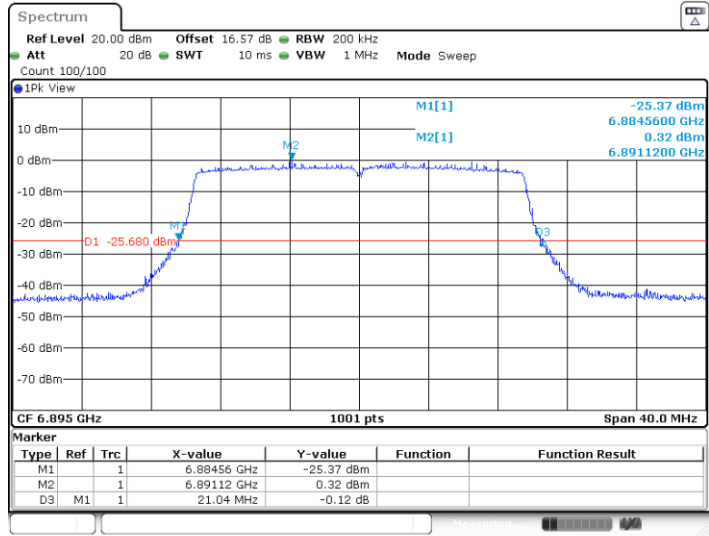


11AX20MIMO_Ant1_6875

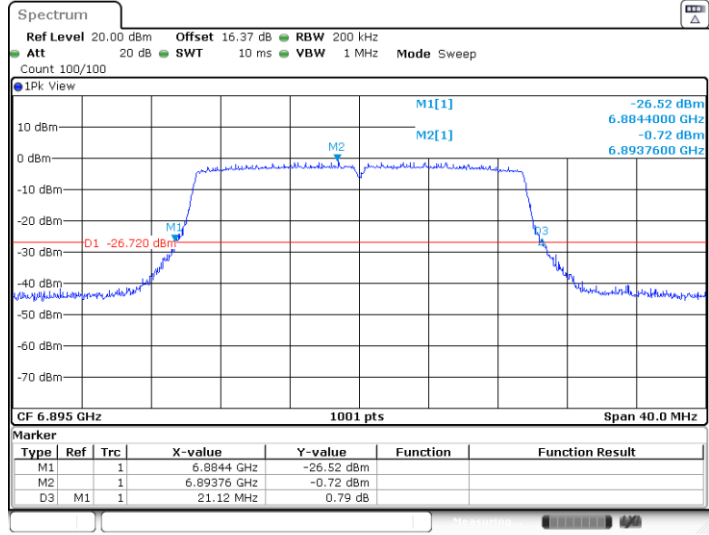




11AX20MIMO_Ant0_6895

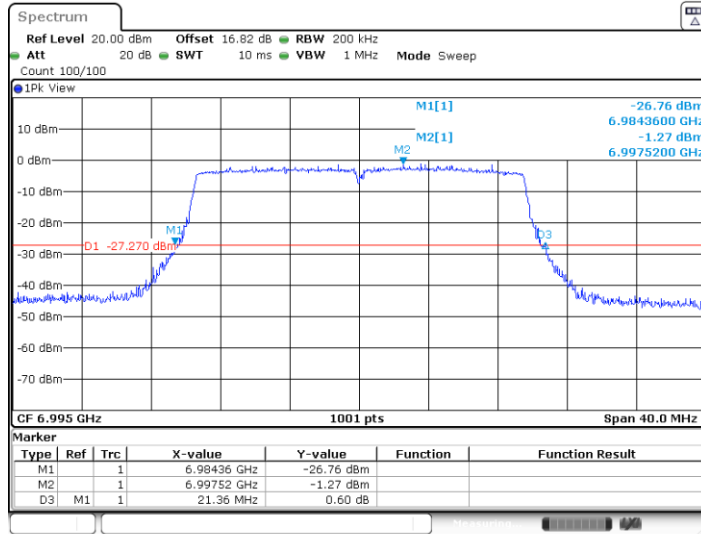


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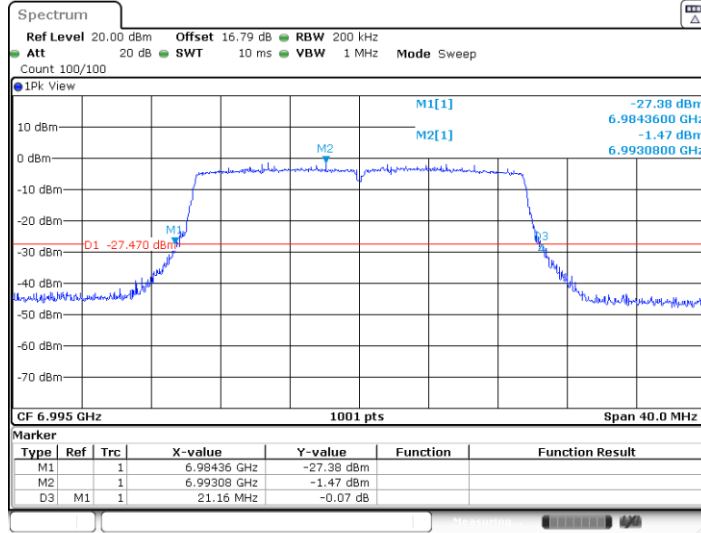


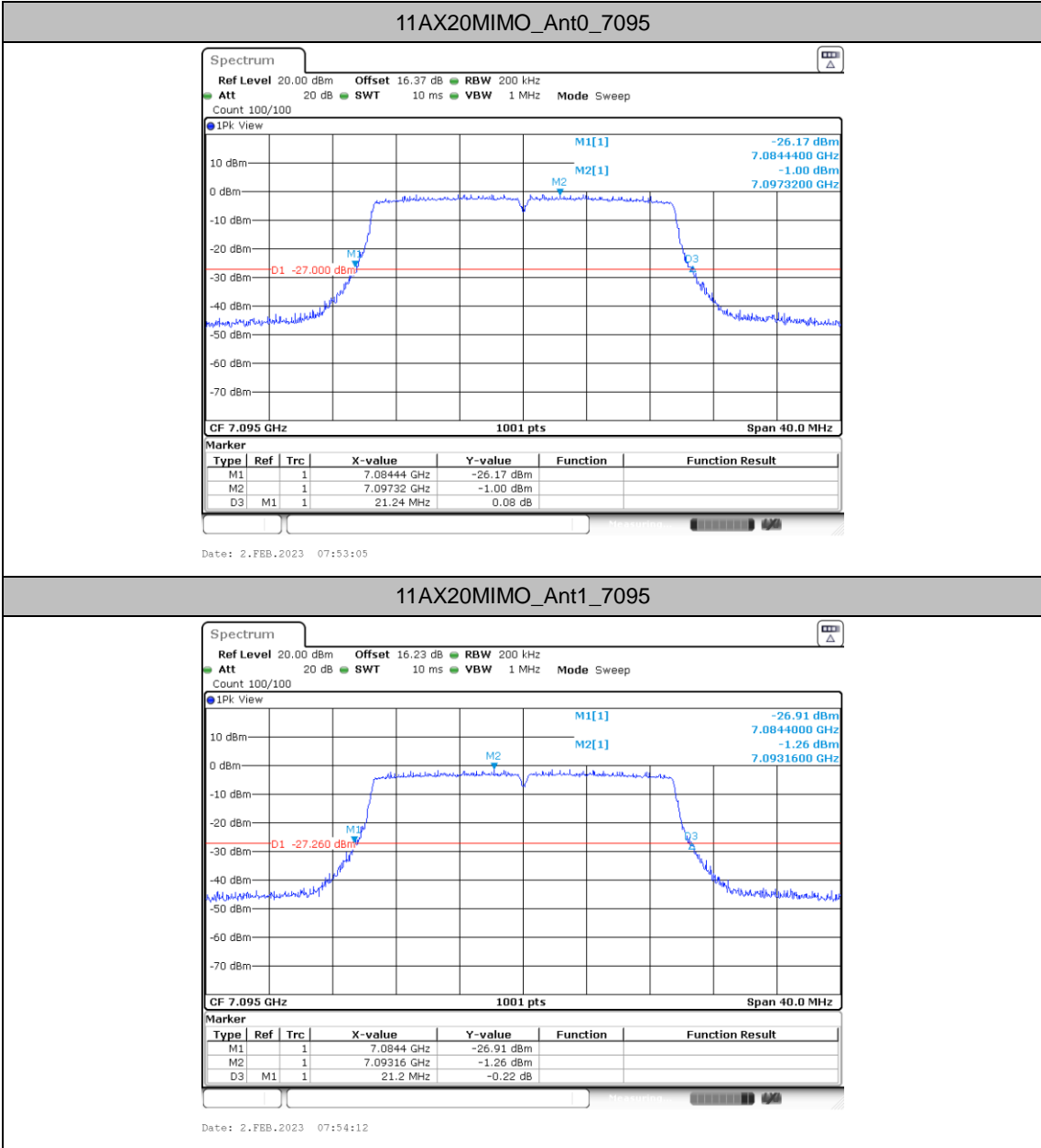


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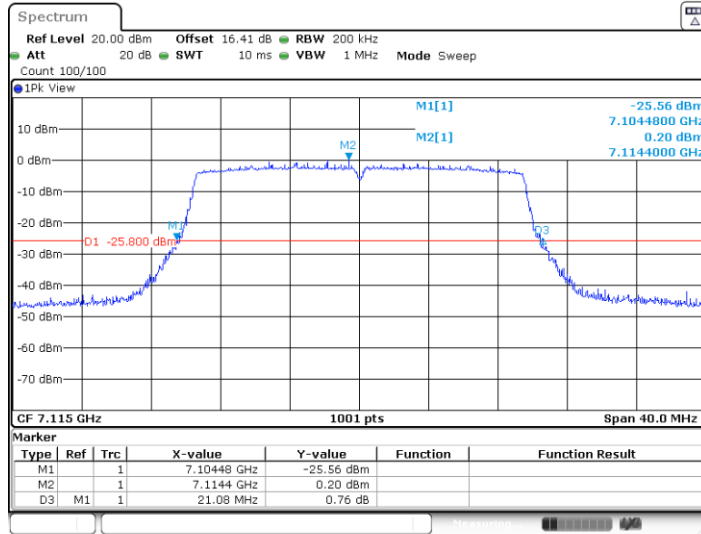
11AX20MIMO_Ant1_6995







11AX20MIMO_Ant0_7115



11AX20MIMO_Ant1_7115

