FCC RF Test Report

APPLICANT : NOTHING TECHNOLOGY LIMITED

EQUIPMENT : Smart Phone BRAND NAME : NOTHING

MODEL NAME : A059

FCC ID : 2AZEQ-24111

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Oct. 23, 2024 ~ Oct. 30, 2024

We, Sporton International Inc. (ShenZhen), 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.

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

JasonJia

Approved by: Jason Jia





Report No.: FR490417C

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR490417C	Rev. 01	Initial issue of report	Dec. 10, 2024

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SUMMARY OF TEST RESULT

Report Section	FCC Rule Description		Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3 15.247(e)		Power Spectral Density	≤ 8dBm/3kHz	Pass	-
	45.047(1)	Conducted Band Edges	.00 ID	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	-
0.5	45.047(-1)	Radiated Band Edges and	15.209(a) &	D	Under limit
3.5	15.247(d)	Radiated Spurious Emission	15.247(d)	Pass	3.27 dB at 2389.950 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.49 dB at 0.240 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits
 or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
 non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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General Description 1

1.1 Applicant

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.2 Manufacturer

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.3 Product Feature of Equipment Under Test

Product Feature			
Equipment Smart Phone			
Brand Name	NOTHING		
Model Name	A059		
FCC ID	2AZEQ-24111		
IMEI Code	Conducted: 359866264025322/359866264025330 Conduction: 359866264025587/359866264025595 Radiation: 3598662640266981/359866264026999		
HW Version	24111		
SW Version	Nothing OS 3.1		
EUT Stage	Identical Prototype		

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz		
	<mimo ant.6+7=""></mimo>		
Maximum (Poak) Output Power to	802.11b: 22.37 dBm (0.1726 W)		
Maximum (Peak) Output Power to antenna	802.11g: 26.22 dBm (0.4188 W)		
antenna	802.11ax HE20: 26.98 dBm (0.4989 W)		
	802.11ax HE40: 25.90 dBm (0.3890 W)		
	<mimo ant.6+7=""></mimo>		
	802.11b : 13.975MHz		
99% Occupied Bandwidth	802.11g : 16.726MHz		
	802.11ax HE20 : 19.198MHz		
	802.11ax HE40 : 37.908MHz		
Antonno Typo / Goin	<ant. 6=""> Metal frame Antenna with gain -0.58 dBi</ant.>		
Antenna Type / Gain	<ant. 7=""> Metal frame Antenna with gain -1.48 dBi</ant.>		
	802.11b: DSSS (DBPSK / DQPSK / CCK)		
	802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)		
Type of Madulation	802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM /		
Type of Modulation	256QAM)		
	802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM /		
	256QAM / 1024QAM)		

Note:

- 1. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
- 2. The device supports WLAN MIMO CDD mode.
- 3. For 802.11n/11ac/11ax mode, the whole testing have assessed only 802.11ax HE20/HE40 by referring to the higher output power.
- 4. 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/PSD > partial RU, therefore the full RU perform full test, and partial RU verify bandedge/spurious.

1.5 Modification of EUT

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

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1.6 Testing Location

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.	
	TH01-SZ	CN1256	421272	

Test Firm	Sporton International Inc. (ShenZhen)			
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
	CO02-SZ; 03CH03-SZ	CN1256	421272	

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	V9_230303
2.	CO02-SZ	AUDIX	E3	6.2009-8-24al

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1.8 Applicable Standards

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

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- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- 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.

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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 (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1 2412 7	2442		
	2	2417	8	2447
2400-2483.5 MHz	3	2422	9	2452
2400-2463.5 IVITZ	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

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2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Antenna

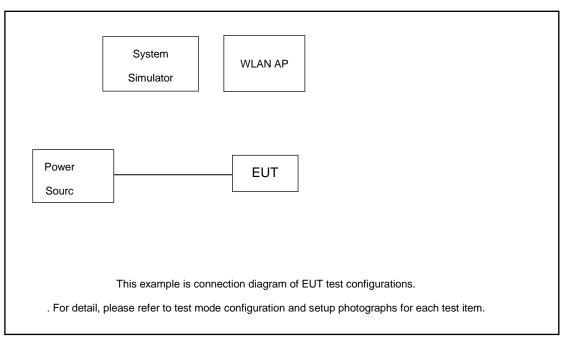
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0

RSE Co-location mode
802.11g CH01 Tx + Part 96 n48 Tx

	Test Cases				
AC Conducted	Mode 1 :GSM850 Idle + WLAN Link(2.4G) + Battery + USB Cable(Charging From Adapter)				
Emission Remark: For	Radiated Test Cases, the tests were performance with Adapter, Battery and USB				
Cable.					

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:

Sporton International Inc. (ShenZhen)

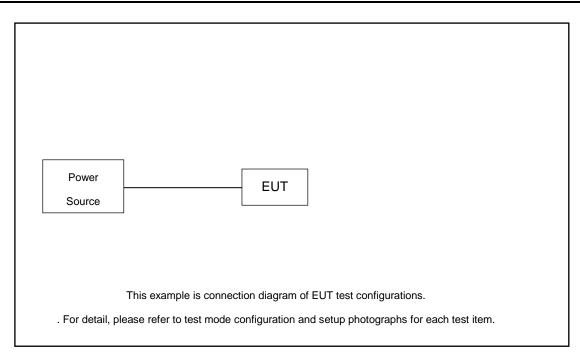
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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

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

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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 2.12 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 2.12 + 10 = 12.12 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

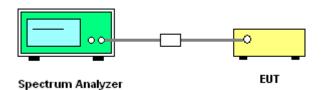
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.8
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) ≥ 3*RBW. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

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3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

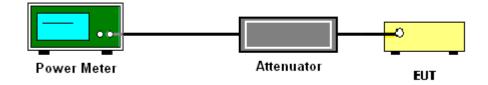
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1
 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.
- 5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

	2.4GHz Band MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)		Pov Lir	Conducted Power Limit (dBm) Conducted DG (dBi)		POWER		EIRP Power Limit (dBm)		Pass /Fail		
					Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	
11b	1Mbps	2	1	2412	19.02	19.46	22.26	30.	.00	-0.	58	21.	68	36.	00	Pass
11b	1Mbps	2	6	2437	19.30	19.42	22.37	30.	.00	-0.	58	21.	79	36.	00	Pass
11b	1Mbps	2	11	2462	18.98	19.32	22.16	30.	.00	-0.	58	21.	58	36.	00	Pass
11g	6Mbps	2	1	2412	22.97	23.43	26.22	30.	.00	-0.	58	25.	64	36.	00	Pass
11g	6Mbps	2	6	2437	23.17	23.24	26.22	22 30.00		-0.	58	25.64		36.00		Pass
11g	6Mbps	2	11	2462	22.56	23.23	25.92	25.92 30.00		-0.58		25.34		36.00		Pass

	2.4GHz Band MIMO																				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	C	Peak Conducted Power (dBm)		Pov Lir	Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)					
						Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7					
HE20	MCS0	2	1	2412	Full	23.47	23.69	26.59	30.	.00	-0.	58	26.	01	36.	00	Pass				
HE20	MCS0	2	1	2412	26/0	16.28	16.40	19.35	30.	.00	-0.	58	18.	77	36.	00	Pass				
HE20	MCS0	2	1	2412	52/37	18.35	19.57	22.01	30.	.00	-0.	58	21.	43	36.	00	Pass				
HE20	MCS0	2	1	2412	106/53	21.36	22.05	24.73	30.	.00	-0.	58	24.	15	36.	00	Pass				
HE20	MCS0	2	6	2437	Full	23.93	24.00	26.98	30	.00	-0.	58	26.	40	36.	00	Pass				
HE20	MCS0	2	11	2462	Full	23.16	23.59	26.39	30	.00	-0.	58	25.	81	36.	00	Pass				
HE20	MCS0	2	11	2462	26/8	15.78	16.15	18.98	30.	.00	-0.	58	18.	40	36.	00	Pass				
HE20	MCS0	2	11	2462	52/40	18.44	19.25	21.87	30.	.00	-0.	58	21.	29	36.	00	Pass				
HE20	MCS0	2	11	2462	106/54	20.80	21.15	23.99	30.	.00	-0.	58	23.	41	36.	00	Pass				
HE40	MCS0	2	3	2422	Full	22.62	23.15	25.90	30.	.00	-0.	58	25.	32	36.	00	Pass				
HE40	MCS0	2	6	2437	Full	22.86	22.75	25.82	30.00		30.00		30.00		-0.58		-0.58 25.24		36.	00	Pass
HE40	MCS0	2	9	2452	Full	22.51	22.65	25.59	30.	.00	-0.	58	25.	01	36.	00	Pass				

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3.2.6 Test Result of Average Output Power (Reporting Only)

	2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)		Average onducte Power (dBm)		Condu Pow Lim (dB)	er nit	DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Sett	ing
					Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7		Ant6	Ant7
11b	1Mbps	2	1	2412	16.80	17.00	19.91	30.0	00	-0.	58	19.	33	36.	00	Pass	17.0	00
11b	1Mbps	2	6	2437	16.70	16.90	19.81	30.0	00	-0.	58	19.	23	36.	00	Pass	17.0	00
11b	1Mbps	2	11	2462	16.60	17.00	19.81	30.0	00	-0.	58	19.	23	36.	00	Pass	17.0	00
11g	6Mbps	2	1	2412	17.00	17.30	20.16	30.0	00	-0.	58	19.	58	36.	00	Pass	17.0	00
11g	6Mbps	2	6	2437	17.00	17.10	20.06	30.0	00	-0.	58	19.	48	36.	00	Pass	17.0	00
11g	6Mbps	2	11	2462	16.80	17.10	19.96	30.0	00	-0.	58	19.	38	36.	00	Pass	17.0	00

	2.4GHz Band MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Cond	Average ucted F duty fa (dBm)	Power	Condu Pow Lim (dBr	er	D(dE	_	EIF Pov (dB	ver	EIF Pov Lin (dB	ver nit	Pass /Fail	Set	tting
						Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7		Ant6	Ant7
HE20	MCS0	2	1	2412	Full	16.20	16.50	19.36	30.0	00	-0.	58	18.	78	36.	00	Pass	16	.50
HE20	MCS0	2	1	2412	26/0	8.60	8.86	11.74	30.0	00	-0.	58	11.	16	36.	00	Pass	9.	50
HE20	MCS0	2	1	2412	52/37	11.16	11.71	14.45	30.0	00	-0.	58	13.	87	36.	00	Pass	12	.00
HE20	MCS0	2	1	2412	106/53	13.70	14.31	17.03	30.0	00	-0.	58	16.	45	36.	00	Pass	14	.50
HE20	MCS0	2	6	2437	Full	16.90	16.90	19.91	30.0	00	-0.	58	19.	33	36.	00	Pass	17	.00
HE20	MCS0	2	11	2462	Full	16.10	16.30	19.21	30.0	00	-0.	58	18.	63	36.	00	Pass	16	.50
HE20	MCS0	2	11	2462	26/8	8.34	8.66	11.51	30.0	00	-0.	58	10.	93	36.	00	Pass	9.	50
HE20	MCS0	2	11	2462	52/40	10.64	11.59	14.15	30.0	00	-0.	58	13.	57	36.	00	Pass	12	.00
HE20	MCS0	2	11	2462	106/54	12.41	13.55	16.03	30.0	00	-0.	58	15.	45	36.	00	Pass	14	.00
HE40	MCS0	2	3	2422	Full	16.40	16.50	19.46	30.0	00	-0.	58	18.	88	36.	00	Pass	16	.00
HE40	MCS0	2	6	2437	Full	16.20	16.30	19.26	30.0	00	-0.	58	18.	68	36.	00	Pass	16	.00
HE40	MCS0	2	9	2452	Full	16.00	16.10	19.06	30.0	00	-0.	58	18.	48	36.	00	Pass	16	.00

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously. 3.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- Measure and record the results in the test report.
- For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output 7. v02r01:

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.

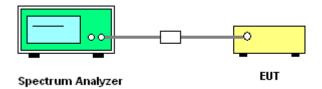
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3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

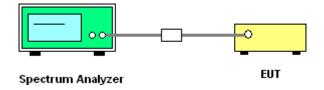
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.11
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.5.3 Test Procedures

- The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. 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.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the 6. 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 peak 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.
- 8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold:
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - 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.

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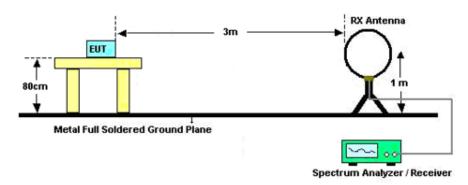
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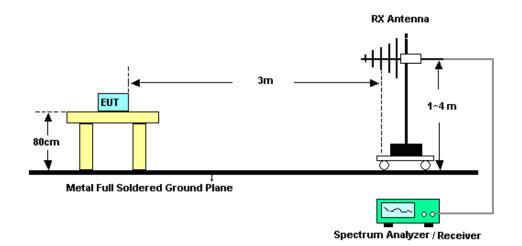


3.5.4 Test Setup

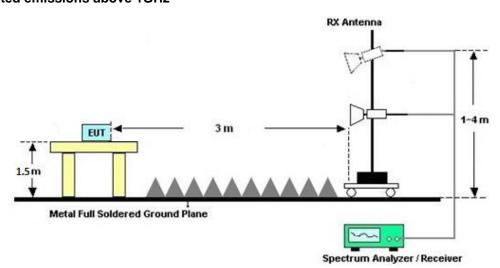
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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 a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

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3.6 AC Conducted Emission Measurement

3.6.1 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	Conducted Limit (dBµV)						
(MHz)	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.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

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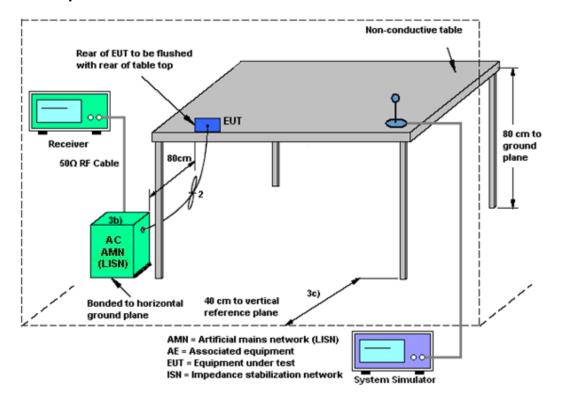
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3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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 $N_{ANT} \le 4$.

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;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F(2)f(i).

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

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<cdd mod<="" th=""><th>es></th><th></th><th></th><th></th><th></th><th></th></cdd>	es>					
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 6	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-0.58	-1.48	-0.58	1.99	0.00	0.00

Power Limit Reduction = DG(Power) - 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) - 6dBi, (min = 0)

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 09, 2024	Oct. 27, 2024~ Oct. 30, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 09, 2024	Oct. 27, 2024~ Oct. 30, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Oct. 27, 2024~ Oct. 30, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Oct. 27, 2024~ Oct. 30, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 09, 2024	Oct. 27, 2024~ Oct. 30, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 03, 2024	Oct. 27, 2024~ Oct. 30, 2024	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Oct. 27, 2024~ Oct. 30, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2024	Oct. 27, 2024~ Oct. 30, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2024	Oct. 27, 2024~ Oct. 30, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Dec. 27, 2023	Oct. 27, 2024~ Oct. 30, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	N/A	Oct. 18, 2024	Oct. 27, 2024~ Oct. 30, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 27, 2024~ Oct. 30, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 27, 2024~ Oct. 30, 2024	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Oct. 27, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Oct. 27, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002 470	100Vac~250Vac	Dec.25, 2022	Oct. 27, 2024	Dec. 24, 2024	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Oct. 23, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Oct. 23, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	- 10℃ ~ 50℃ 10%RH~99%R H	Apr. 09, 2024	Oct. 23, 2024	Apr. 08, 2025	Conducted (TH01-SZ)

NCR: No Calibration Required

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5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

<u>Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.5 dB
of 95% (U = 2Uc(y))	2.5 dB

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

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

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

<u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)</u>

Measuring Uncertainty for a Level of Confidence	40.10
of 95% (U = 2Uc(y))	4.9 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

----- THE END -----

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Appendix A. Conducted Test Results

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CC RF Test Report Report No. :FR490417C

Ambient Condition: <u>24-26</u> °C, <u>45-55</u> %RH

Test Date: 2024.10.23 Test Engineer: Chen ZhiQiang

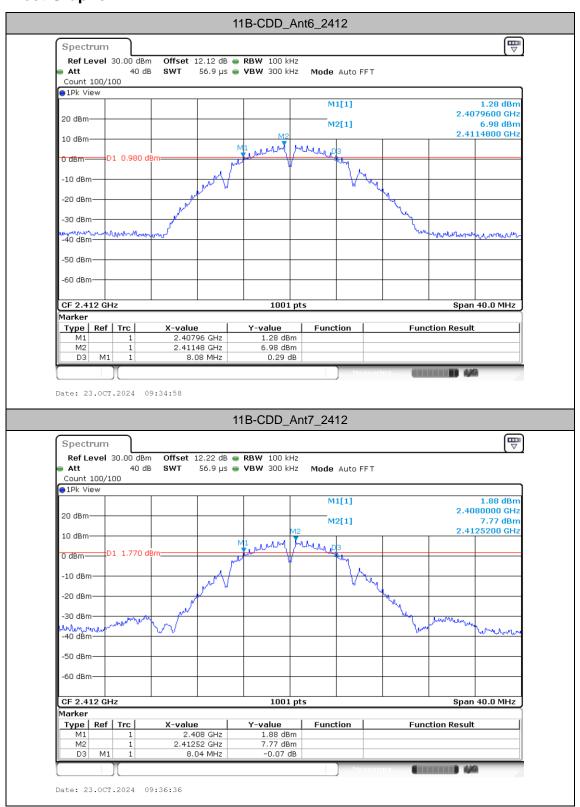
6dB Bandwidth

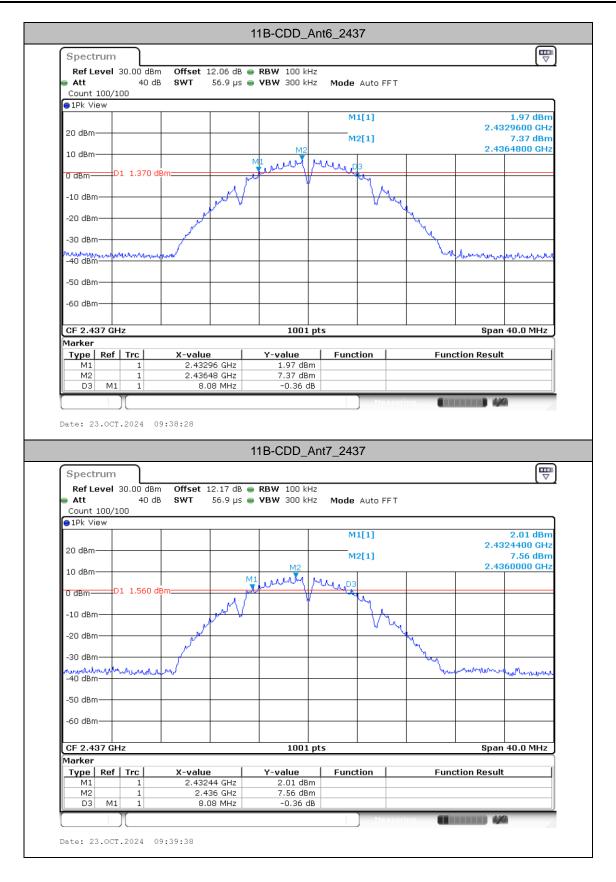
Test Result

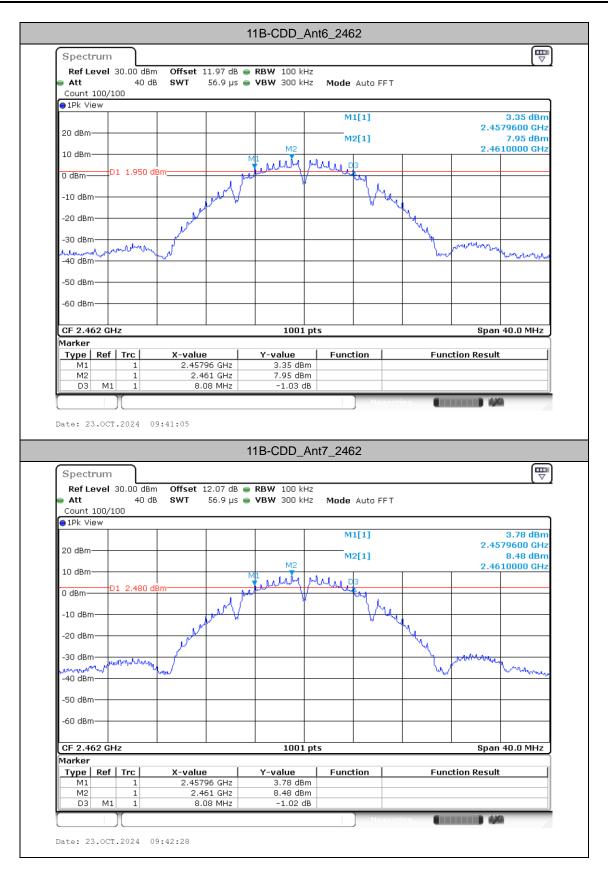
TestMode	Antenna	Freq(MHz)	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant6	2412	8.08	2407.96	2416.04	0.5	PASS
	Ant7	2412	8.04	2408.00	2416.04	0.5	PASS
11B-CDD	Ant6	2437	8.08	2432.96	2441.04	0.5	PASS
HB-CDD	Ant7	2437	8.08	2432.44	2440.52	0.5	PASS
	Ant6	2462	8.08	2457.96	2466.04	0.5	PASS
	Ant7	2462	8.08	2457.96	2466.04	0.5	PASS
	Ant6	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant7	2412	15.12	2404.44	2419.56	0.5	PASS
11G-CDD	Ant6	2437	15.32	2429.24	2444.56	0.5	PASS
HG-CDD	Ant7	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant6	2462	15.32	2454.24	2469.56	0.5	PASS
	Ant7	2462	15.12	2454.44	2469.56	0.5	PASS
	Ant6	2412	14.64	2405.68	2420.32	0.5	PASS
	Ant7	2412	16.16	2403.64	2419.80	0.5	PASS
44 A V 20 MINAO	Ant6	2437	16.48	2428.24	2444.72	0.5	PASS
11AX20MIMO	Ant7	2437	17.28	2427.76	2445.04	0.5	PASS
	Ant6	2462	17.68	2452.80	2470.48	0.5	PASS
	Ant7	2462	16.24	2453.28	2469.52	0.5	PASS
11AX40MIMO	Ant6	2422	34.96	2404.80	2439.76	0.5	PASS
	Ant7	2422	32.72	2406.80	2439.52	0.5	PASS
	Ant6	2437	33.84	2419.48	2453.32	0.5	PASS
	Ant7	2437	35.04	2419.48	2454.52	0.5	PASS
	Ant6	2452	34.96	2434.56	2469.52	0.5	PASS
	Ant7	2452	35.12	2434.40	2469.52	0.5	PASS

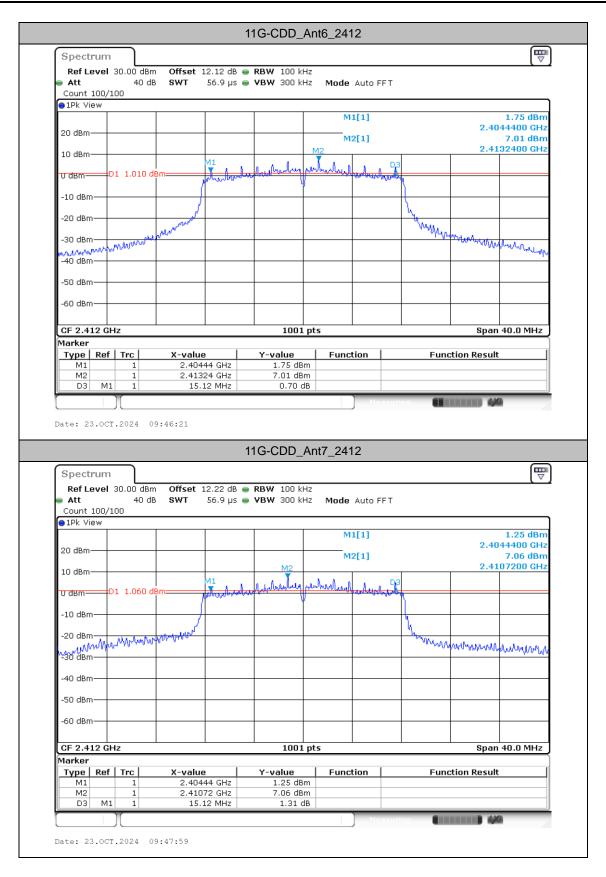


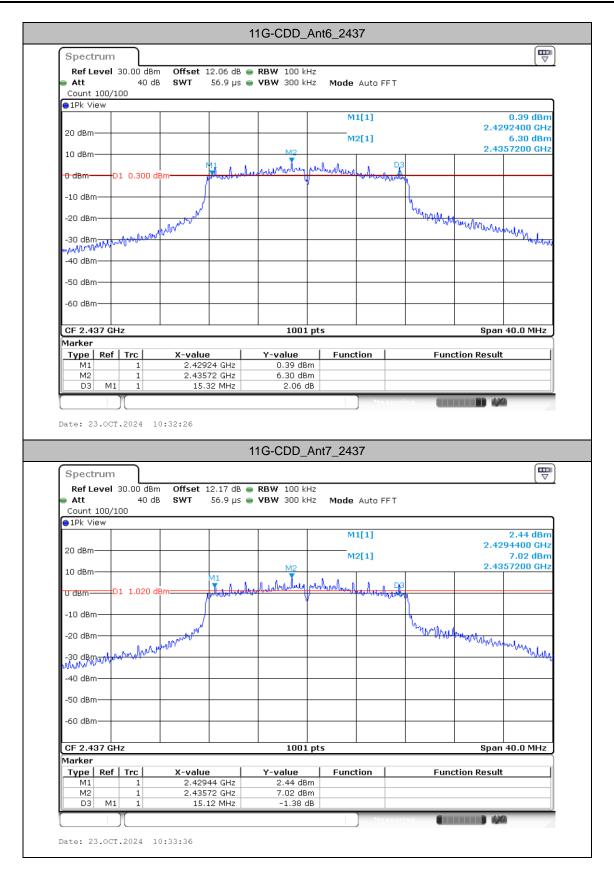
Test Graphs

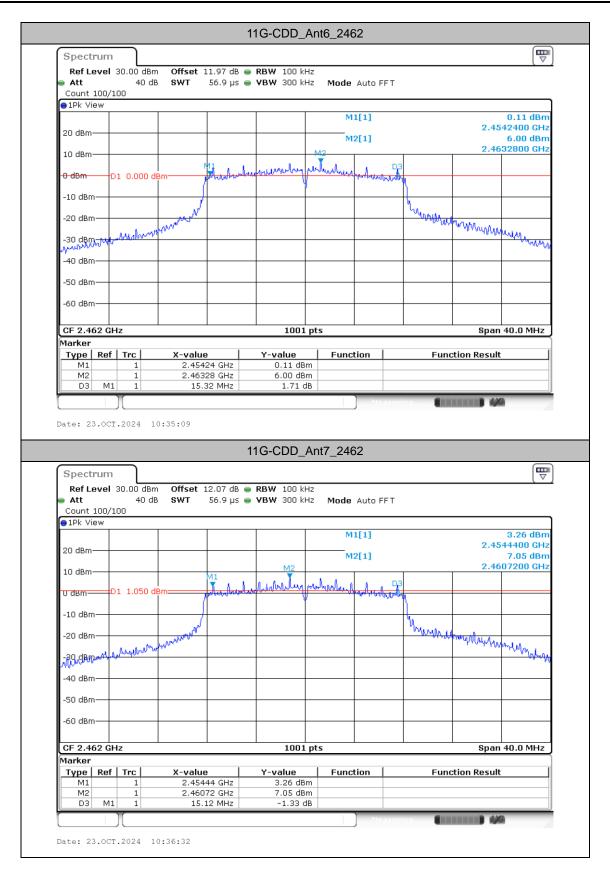


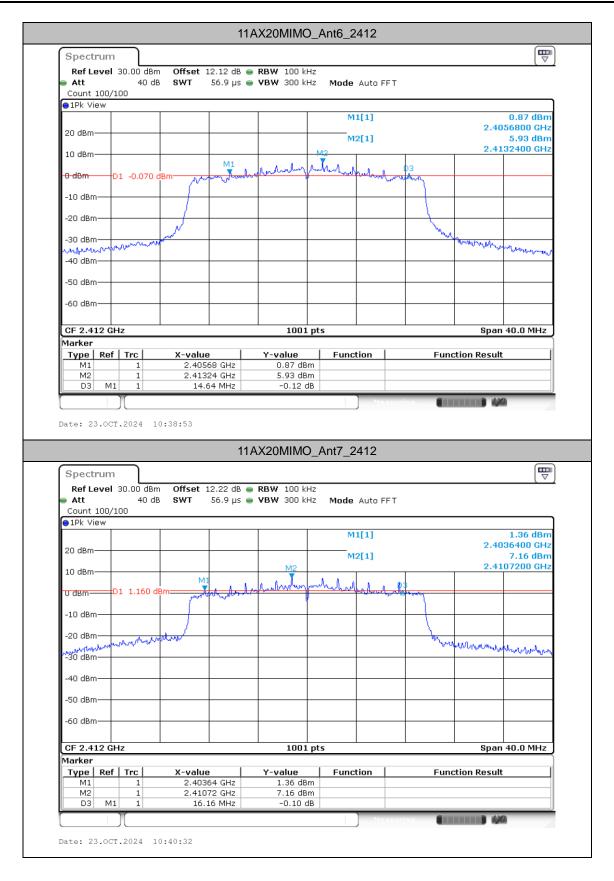


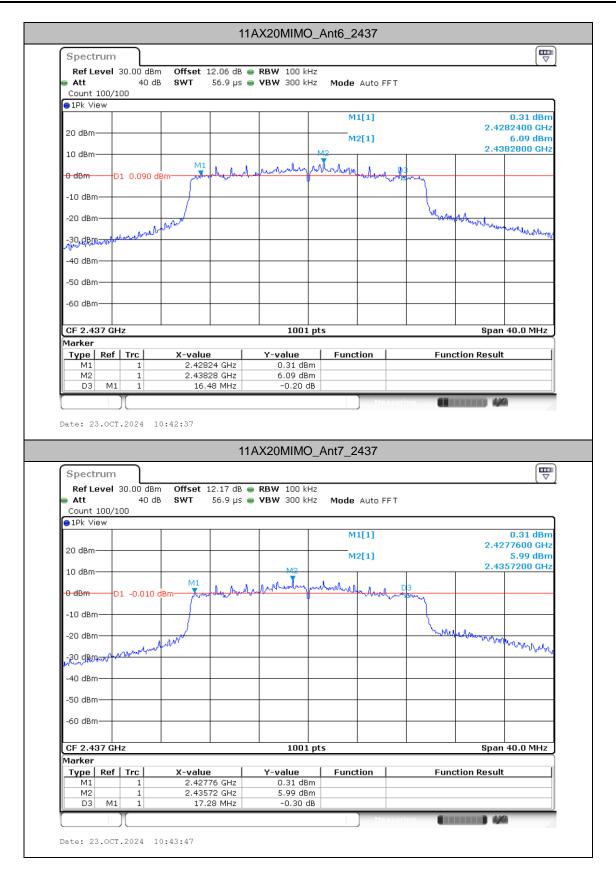


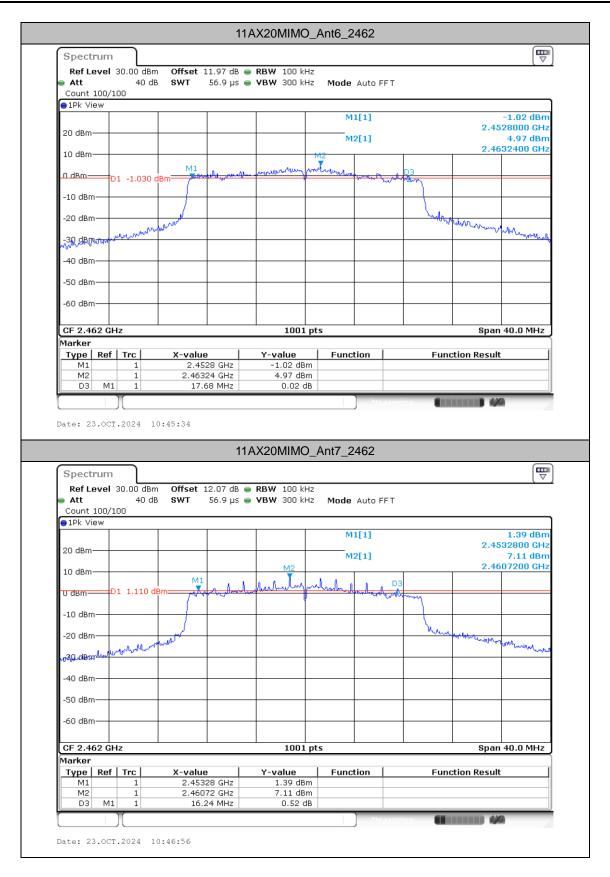


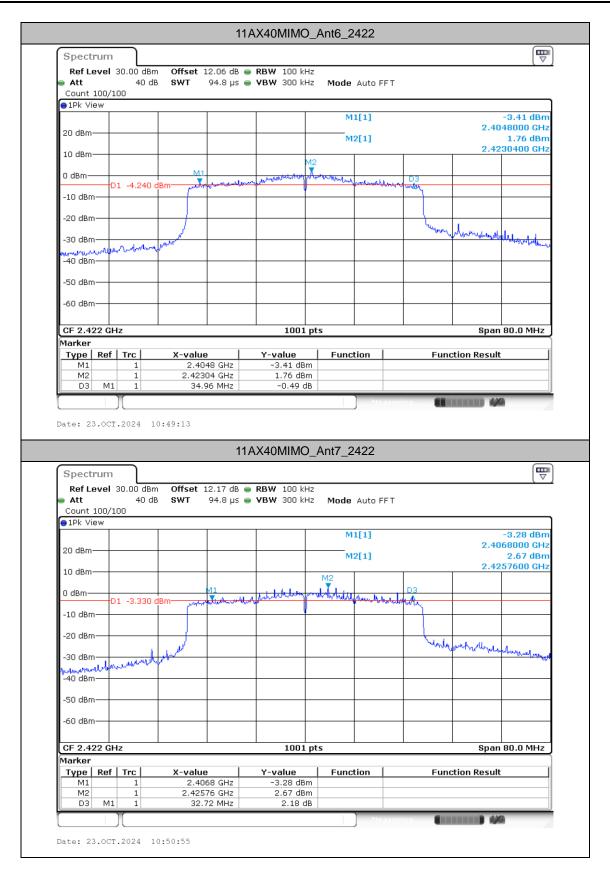


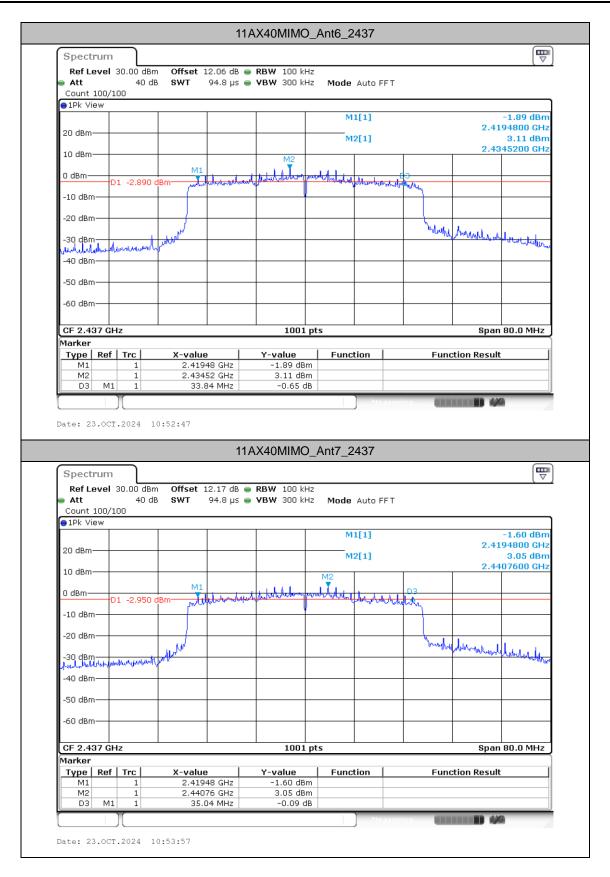


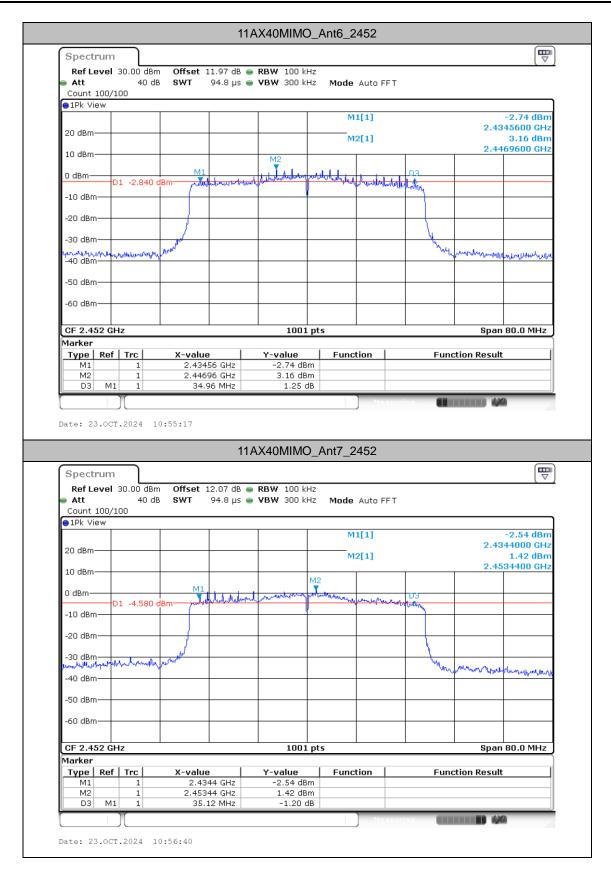














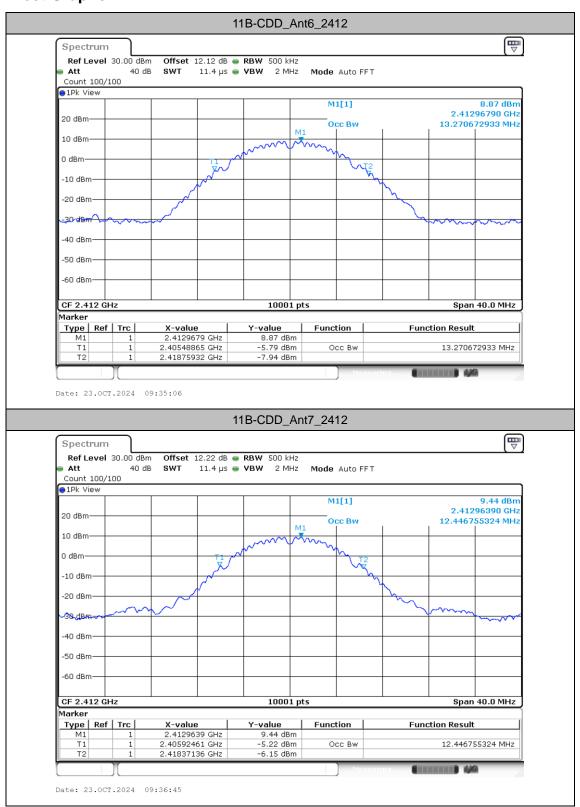
Occupied Channel Bandwidth

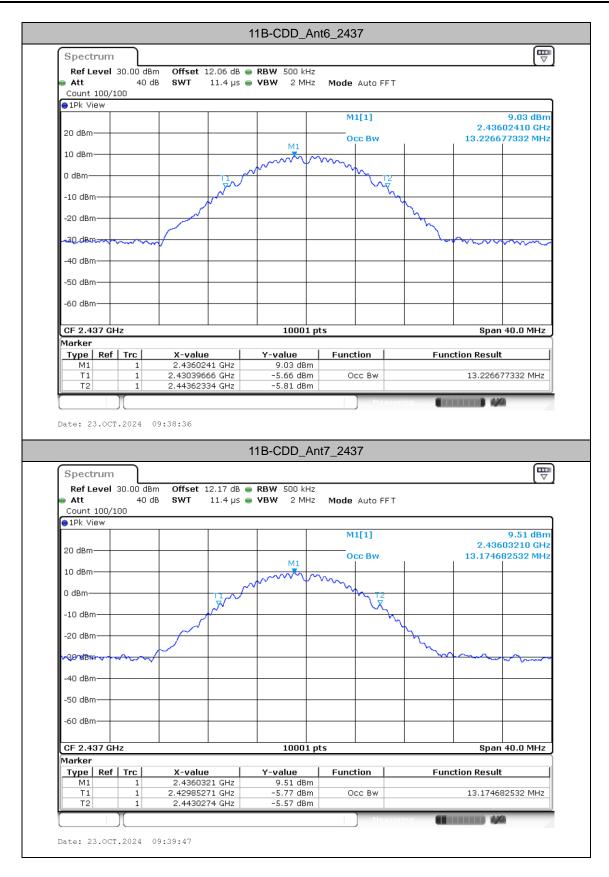
Test Result

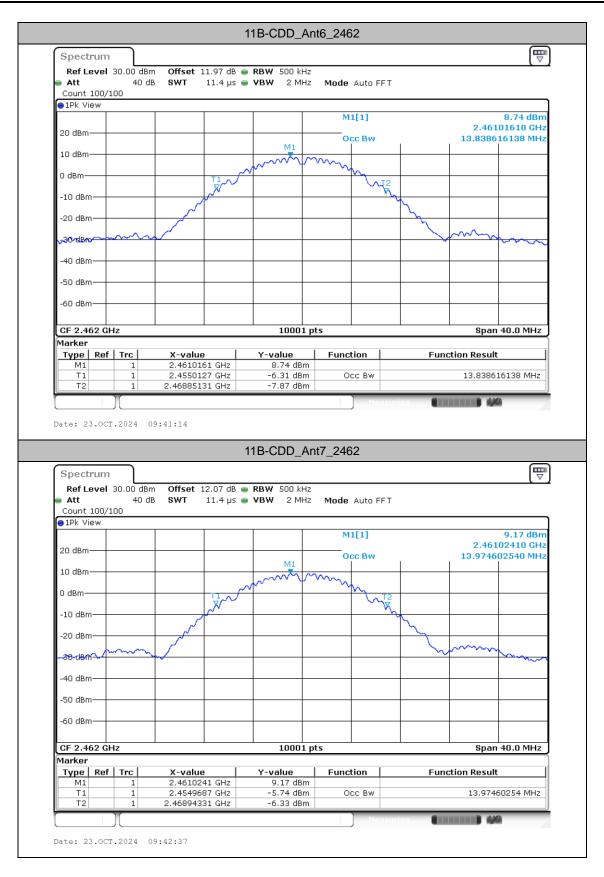
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B-CDD	Ant6	2412	13.271	2405.4887	2418.7593
	Ant7	2412	12.447	2405.9246	2418.3714
	Ant6	2437	13.227	2430.3967	2443.6233
	Ant7	2437	13.175	2429.8527	2443.0274
	Ant6	2462	13.839	2455.0127	2468.8513
	Ant7	2462	13.975	2454.9687	2468.9433
11G-CDD	Ant6	2412	16.466	2403.7808	2420.2472
	Ant7	2412	16.666	2403.6928	2420.3592
	Ant6	2437	16.662	2428.7248	2445.3872
	Ant7	2437	16.658	2428.7168	2445.3752
	Ant6	2462	16.726	2453.7008	2470.4272
	Ant7	2462	16.714	2453.6768	2470.3912
11AX20MIMO	Ant6	2412	18.898	2402.5489	2421.4471
	Ant7	2412	19.034	2402.5369	2421.5710
	Ant6	2437	19.198	2427.4250	2446.6230
	Ant7	2437	19.078	2427.4850	2446.5630
	Ant6	2462	18.962	2452.5369	2471.4991
	Ant7	2462	19.142	2452.4730	2471.6150
11AX40MIMO	Ant6	2422	37.756	2403.1779	2440.9341
	Ant7	2422	37.908	2403.0979	2441.0061
	Ant6	2437	37.764	2418.1059	2455.8701
	Ant7	2437	37.82	2418.2339	2456.0541
	Ant6	2452	37.588	2433.0819	2470.6701
	Ant7	2452	37.532	2433.1219	2470.6541

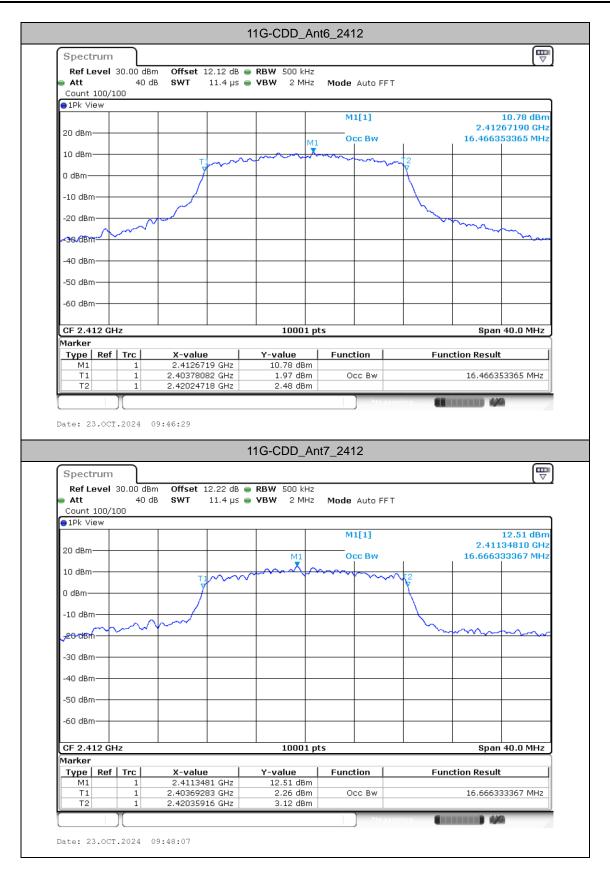


Test Graphs



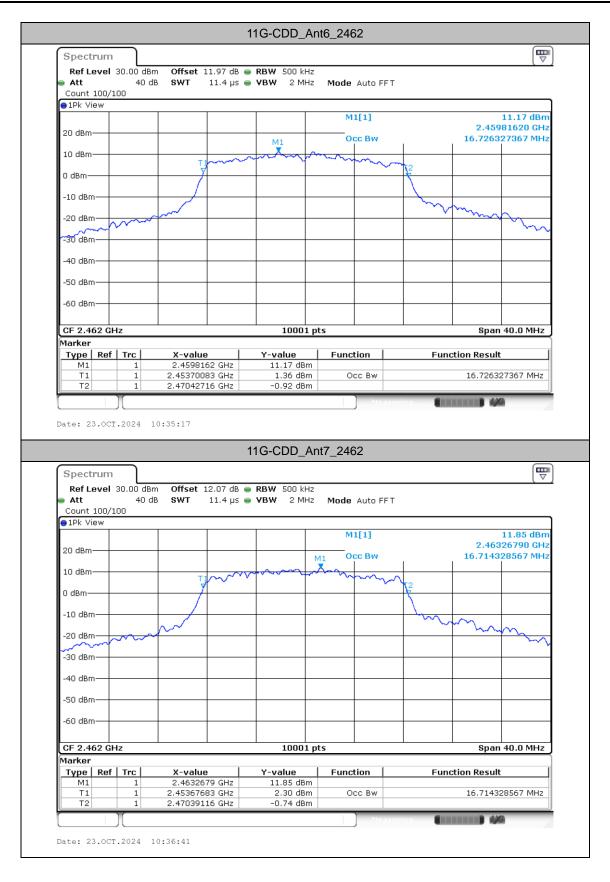




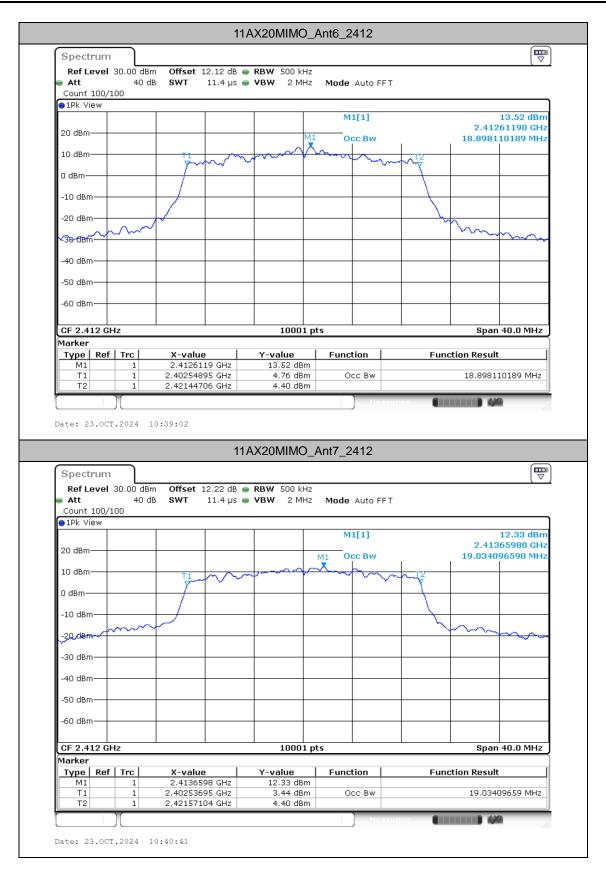


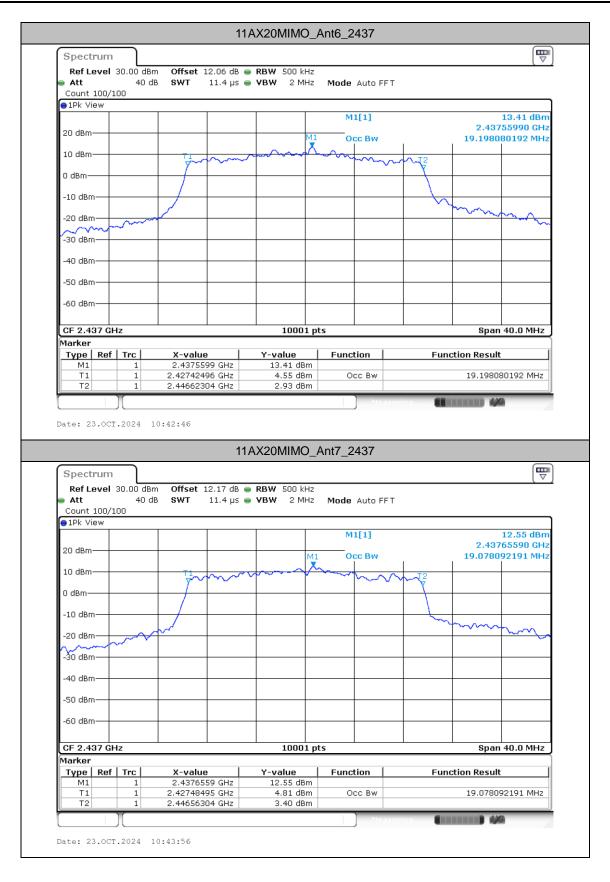


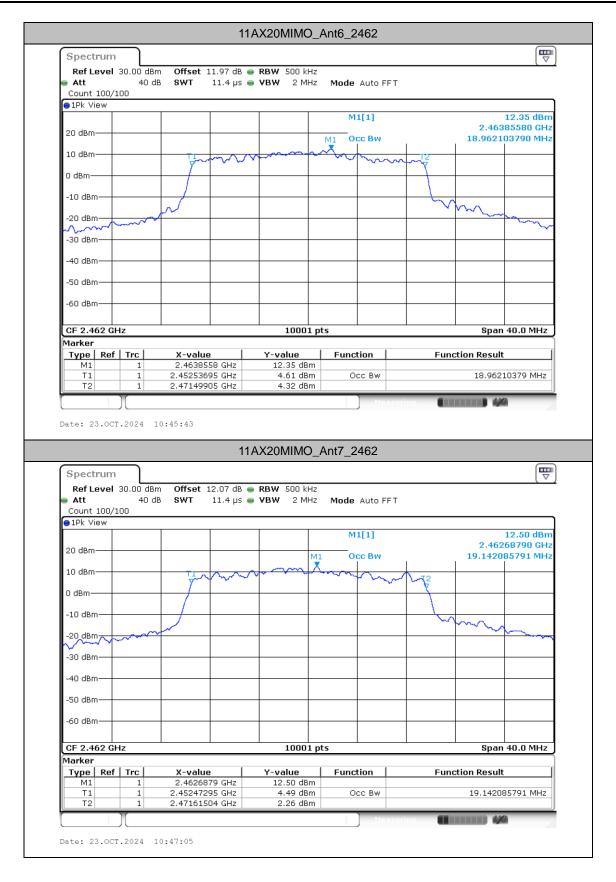
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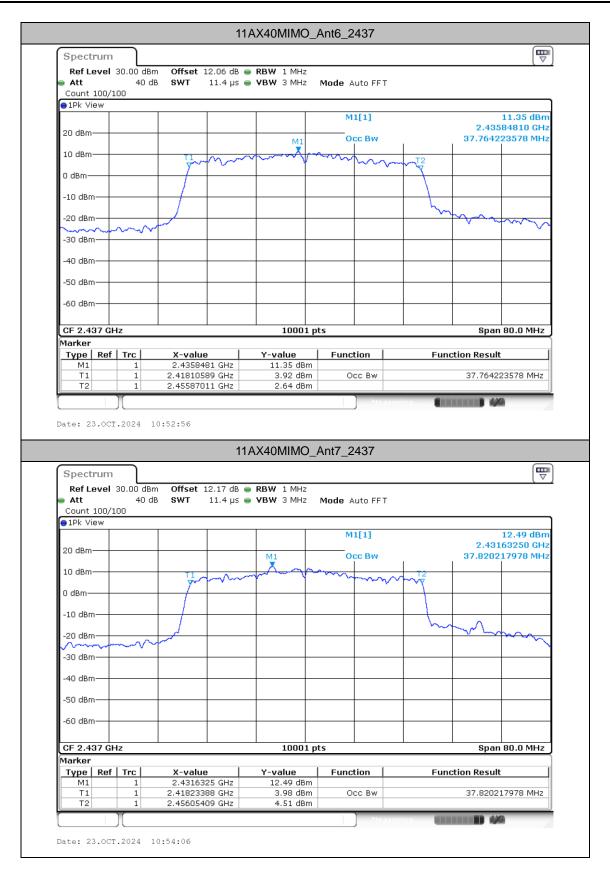
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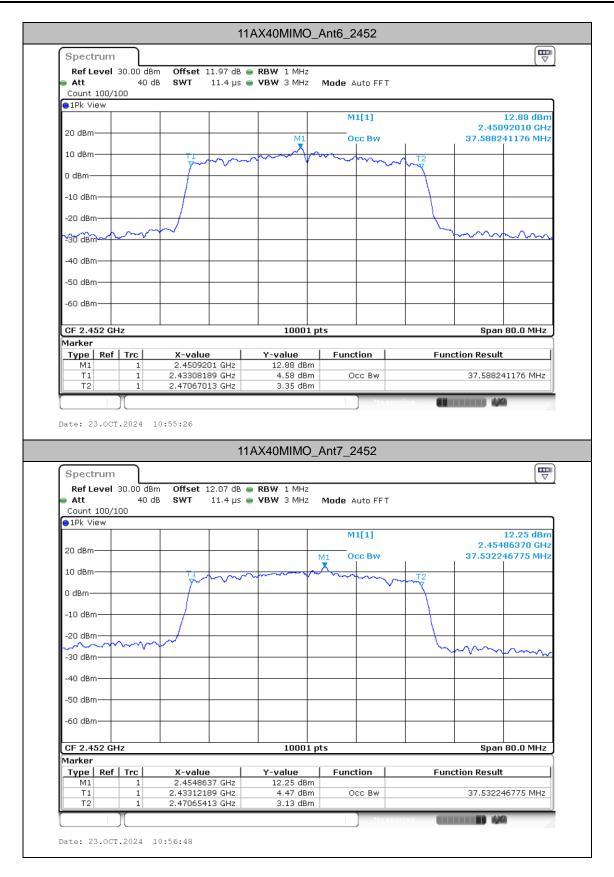














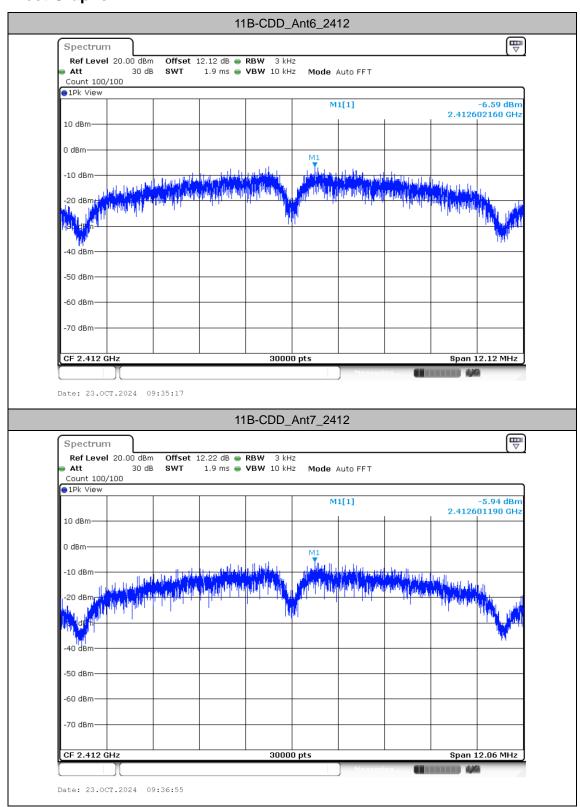
Maximum power spectral density

Test Result

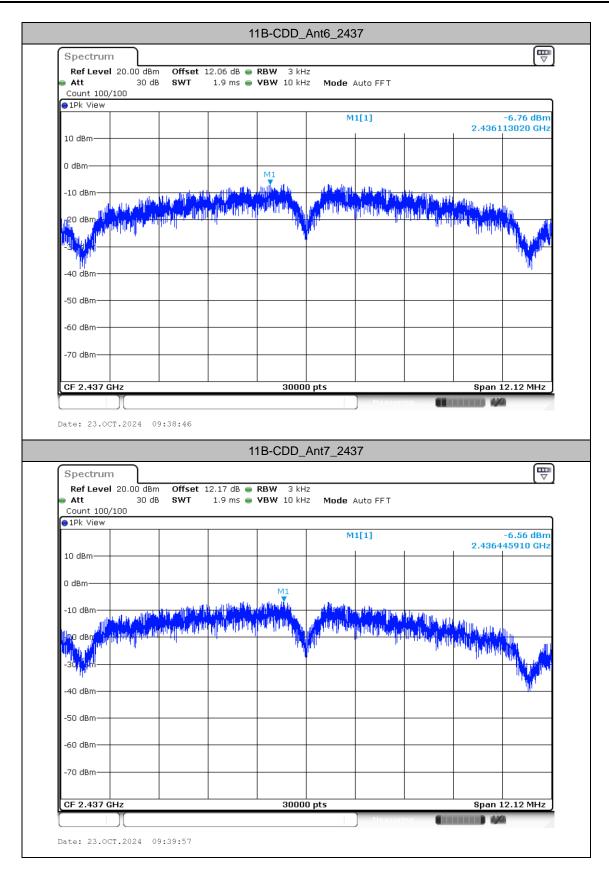
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B-CDD	Ant6	2412	-6.59	≤8.00	PASS
	Ant7	2412	-5.94	≤8.00	PASS
	total	2412	-3.24	≤8.00	PASS
	Ant6	2437	-6.76	≤8.00	PASS
	Ant7	2437	-6.56	≤8.00	PASS
	total	2437	-3.65	≤8.00	PASS
	Ant6	2462	-6.79	≤8.00	PASS
	Ant7	2462	-7.52	≤8.00	PASS
	total	2462	-4.13	≤8.00	PASS
11G-CDD	Ant6	2412	-7.85	≤8.00	PASS
	Ant7	2412	-7.56	≤8.00	PASS
	total	2412	-4.69	≤8.00	PASS
	Ant6	2437	-7.63	≤8.00	PASS
	Ant7	2437	-7.35	≤8.00	PASS
	total	2437	-4.48	≤8.00	PASS
	Ant6	2462	-8.11	≤8.00	PASS
	Ant7	2462	-6.47	≤8.00	PASS
	total	2462	-4.20	≤8.00	PASS
	Ant6	2412	-7.75	≤8.00	PASS
	Ant7	2412	-6.91	≤8.00	PASS
11AX20MIMO	total	2412	-4.30	≤8.00	PASS
	Ant6	2437	-8.41	≤8.00	PASS
	Ant7	2437	-7.00	≤8.00	PASS
	total	2437	-4.64	≤8.00	PASS
	Ant6	2462	-7.34	≤8.00	PASS
	Ant7	2462	-8.22	≤8.00	PASS
	total	2462	-4.75	≤8.00	PASS
11AX40MIMO	Ant6	2422	-9.74	≤8.00	PASS
	Ant7	2422	-11.51	≤8.00	PASS
	total	2422	-7.53	≤8.00	PASS
	Ant6	2437	-10.61	≤8.00	PASS
	Ant7	2437	-10.52	≤8.00	PASS
	total	2437	-7.55	≤8.00	PASS
	Ant6	2452	-9.94	≤8.00	PASS
	Ant7	2452	-9.99	≤8.00	PASS
	total	2452	-6.95	≤8.00	PASS



Test Graphs

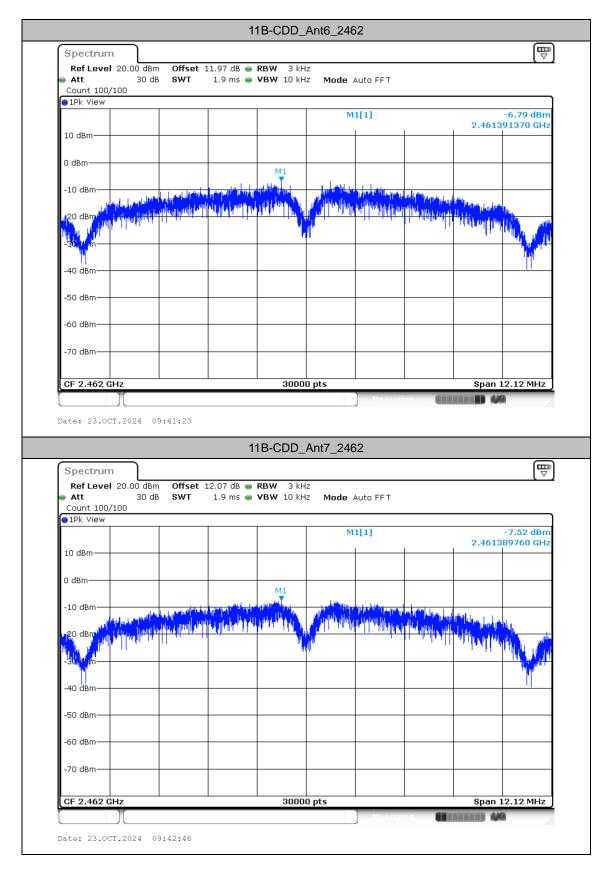


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