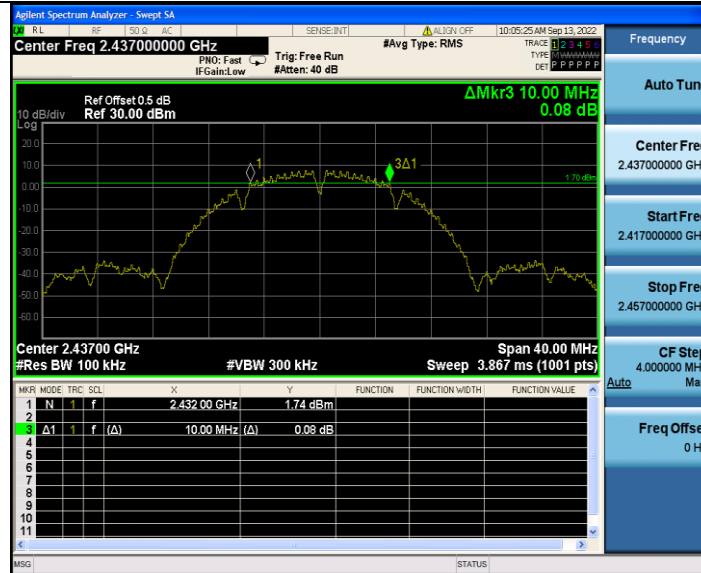




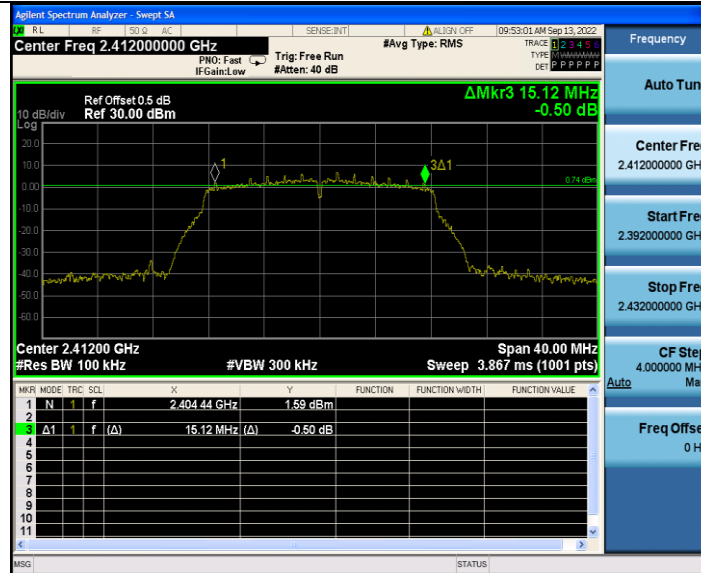
11B Ant1 2462



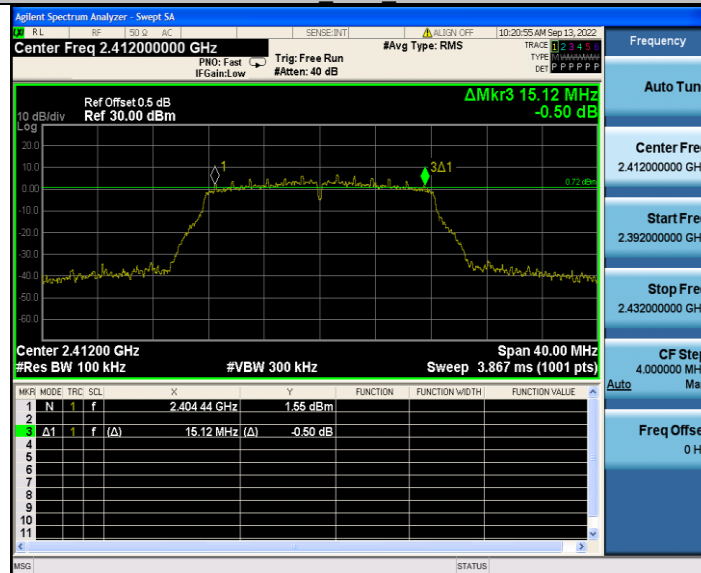
11B Ant2 2462



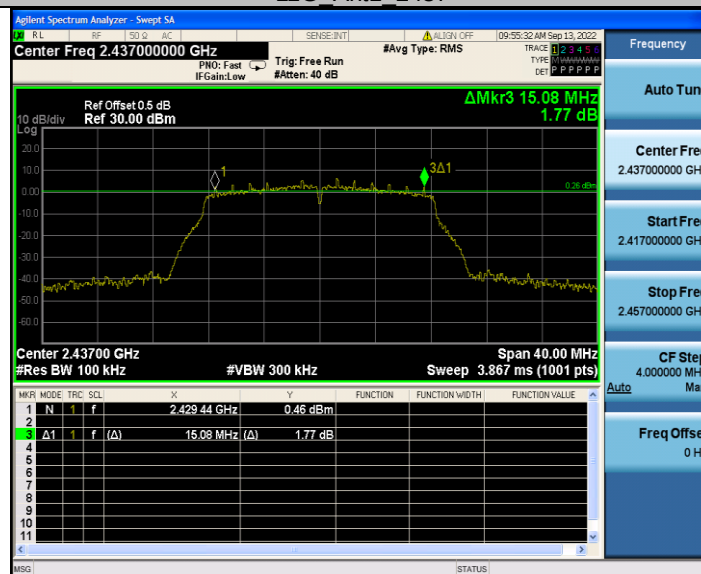
11G Ant1 2412



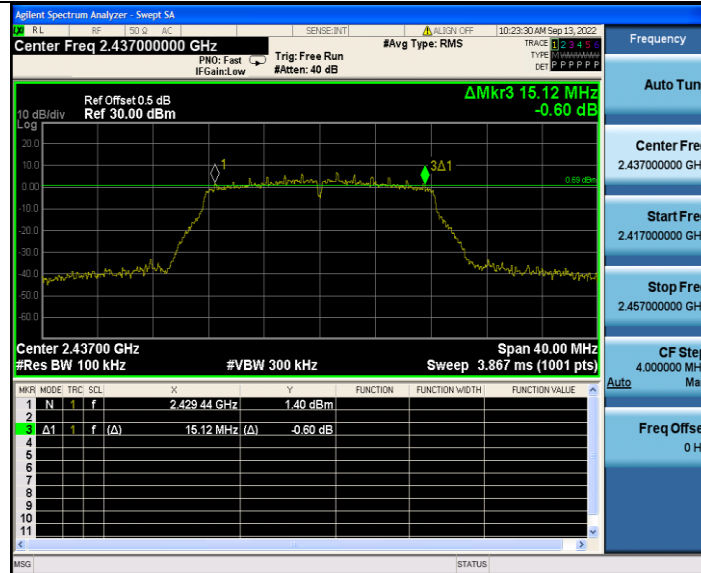
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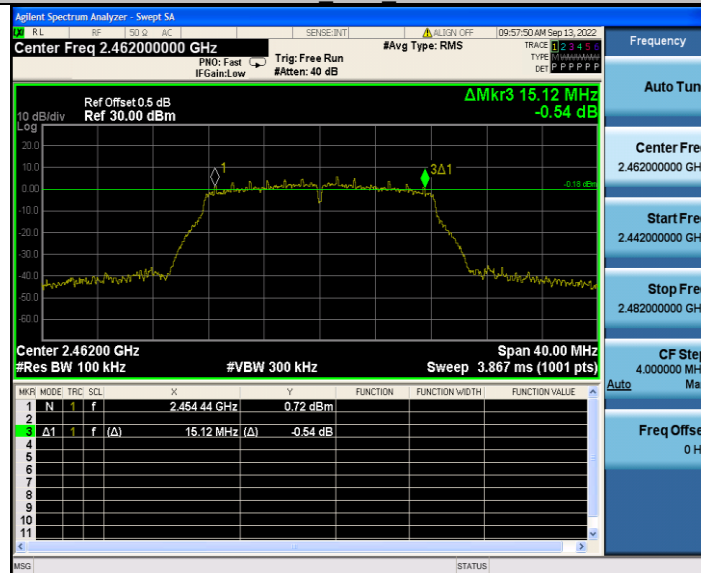
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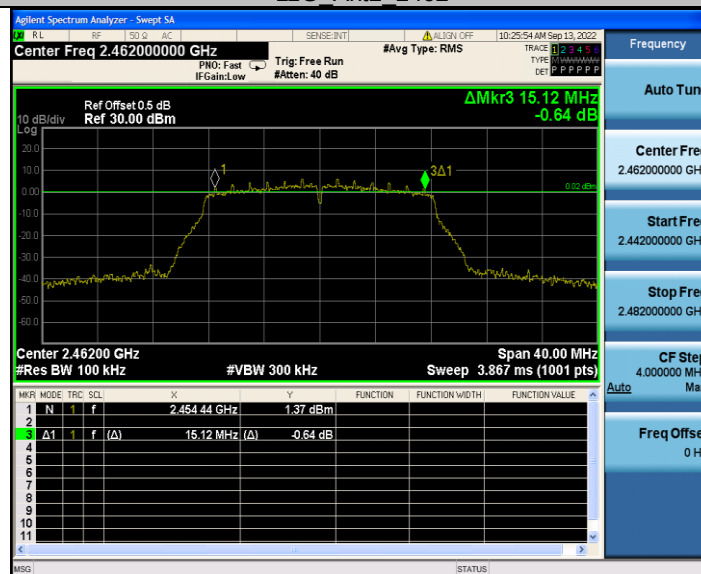
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11G_Ant1_2462



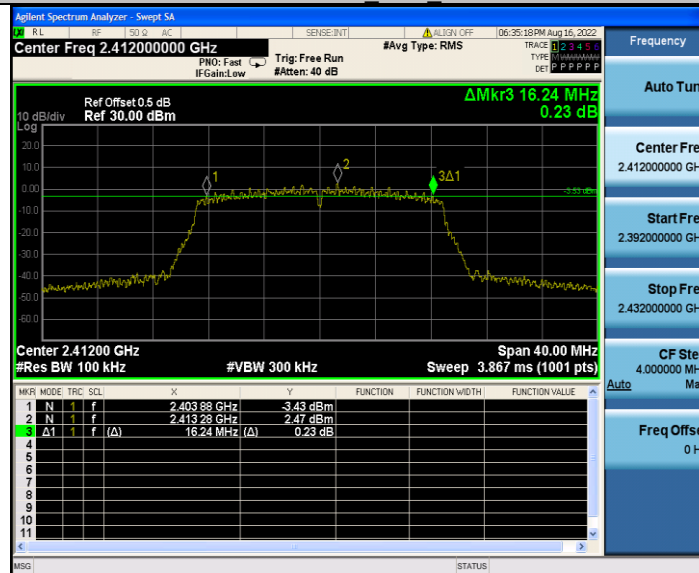
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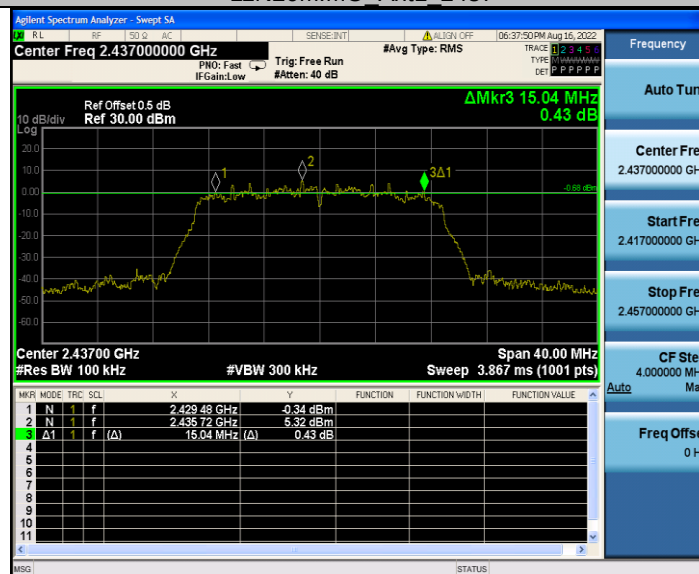
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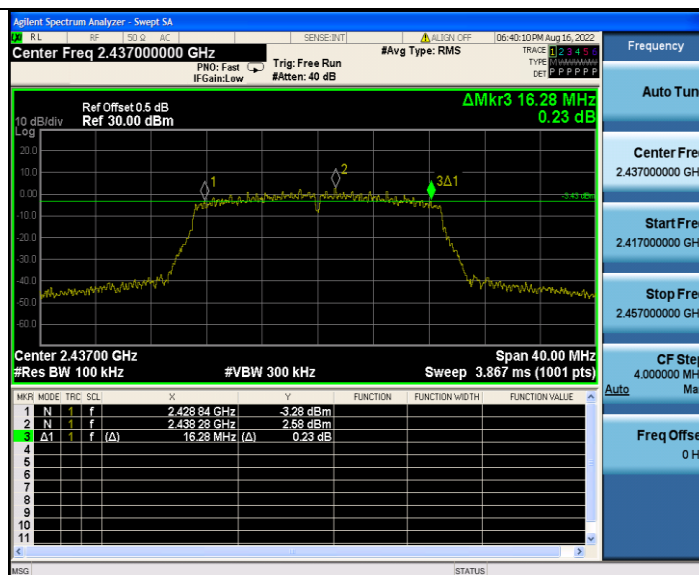
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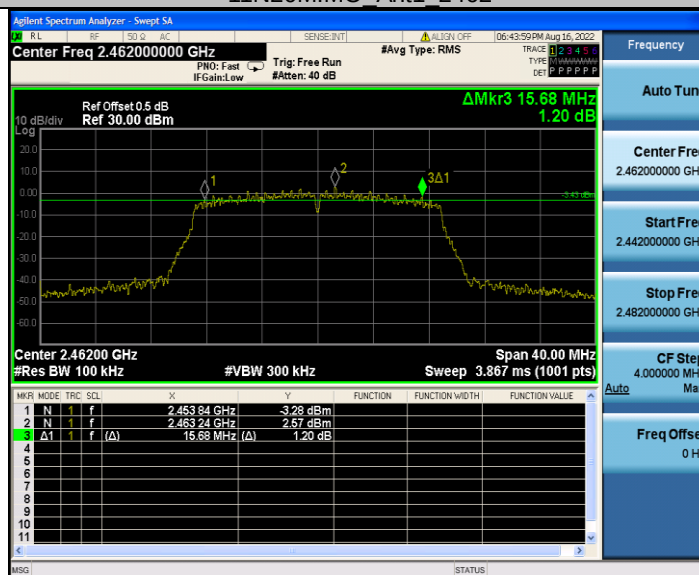
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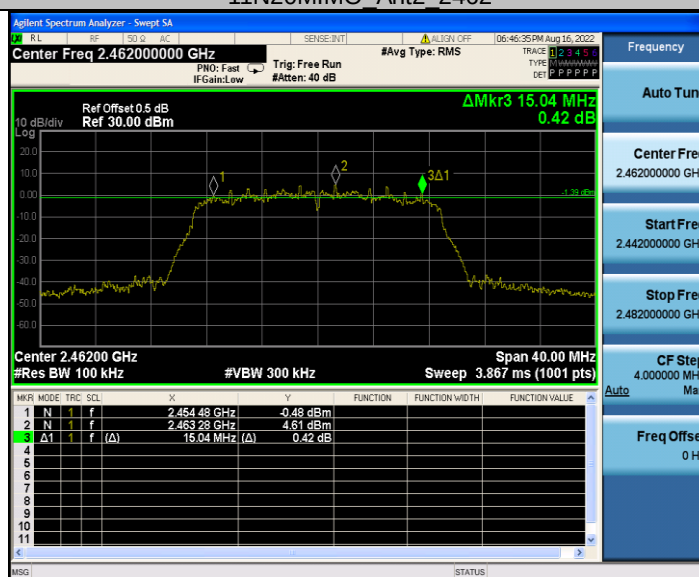
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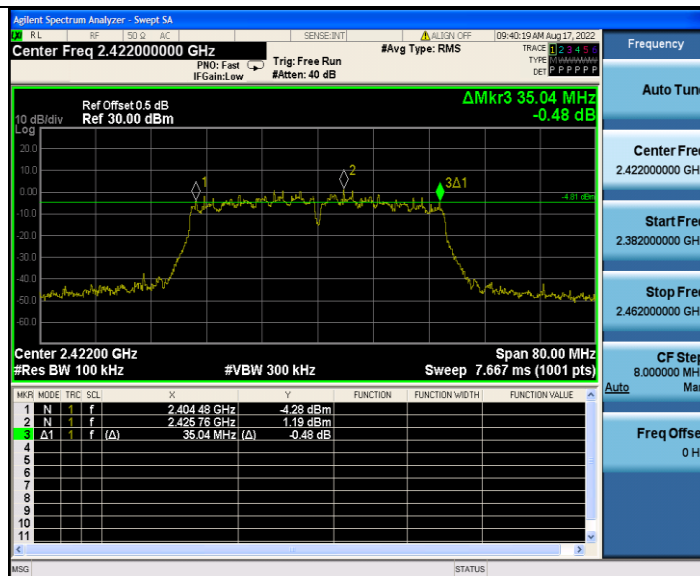
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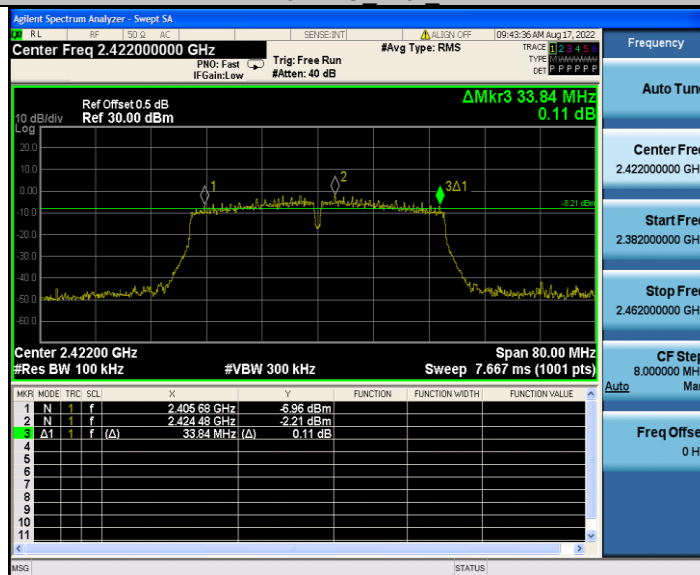
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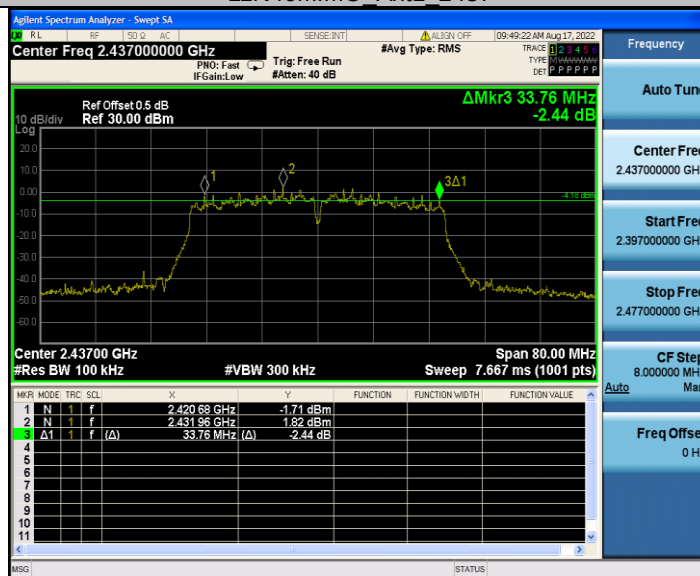
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11N40MIMO_Ant2_2422



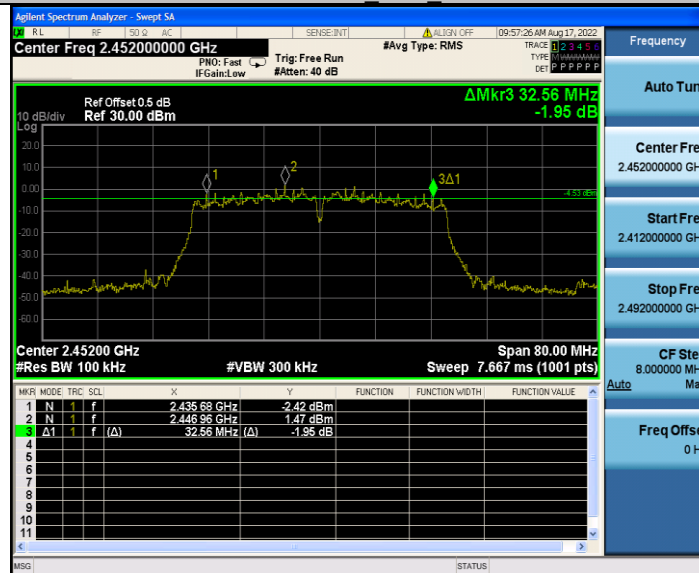
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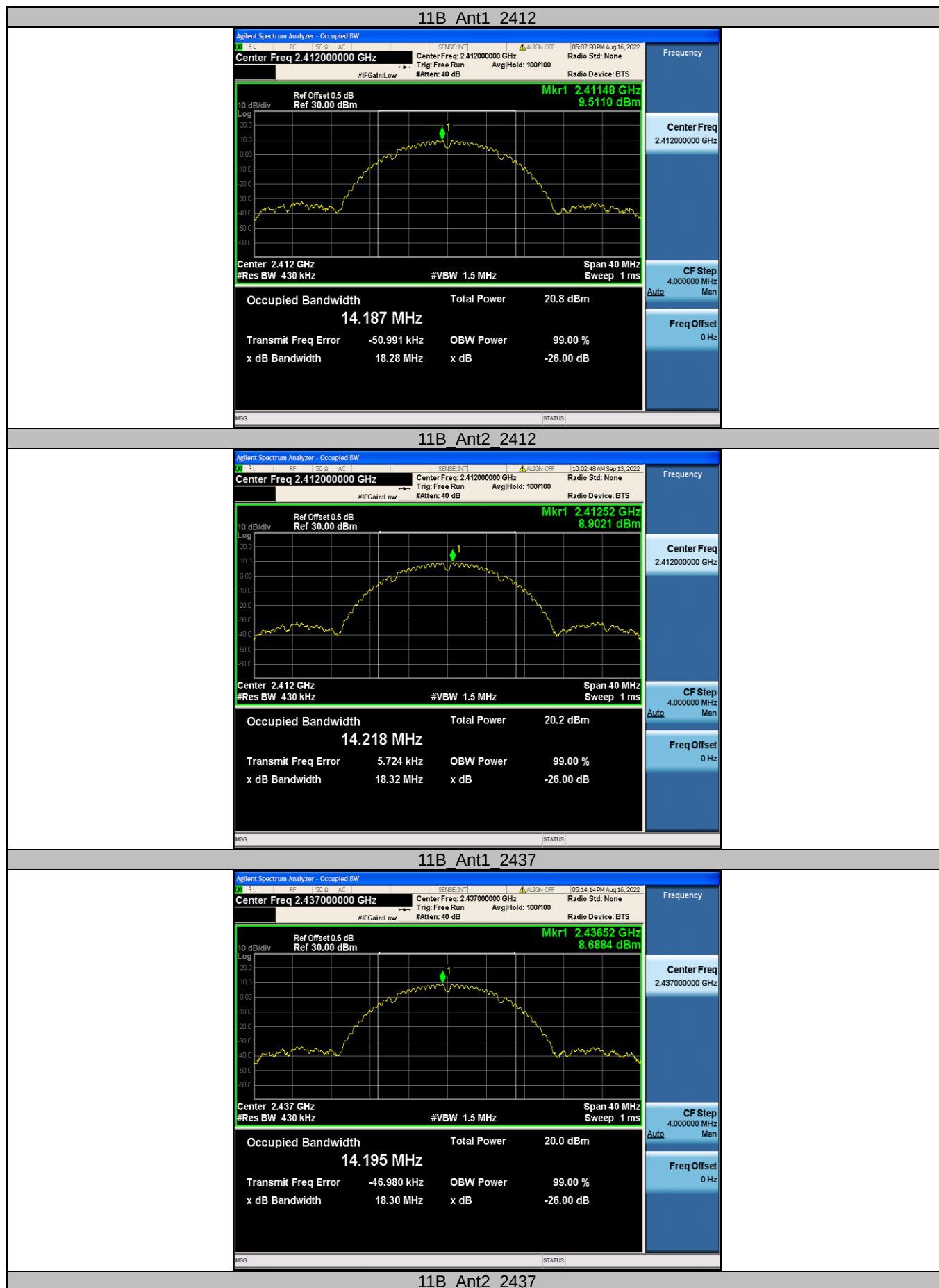


11N40MIMO Ant1 2452



11N40MIMO Ant2 2452



Occupied Channel Bandwidth Test Result

CTC Laboratories, Inc.

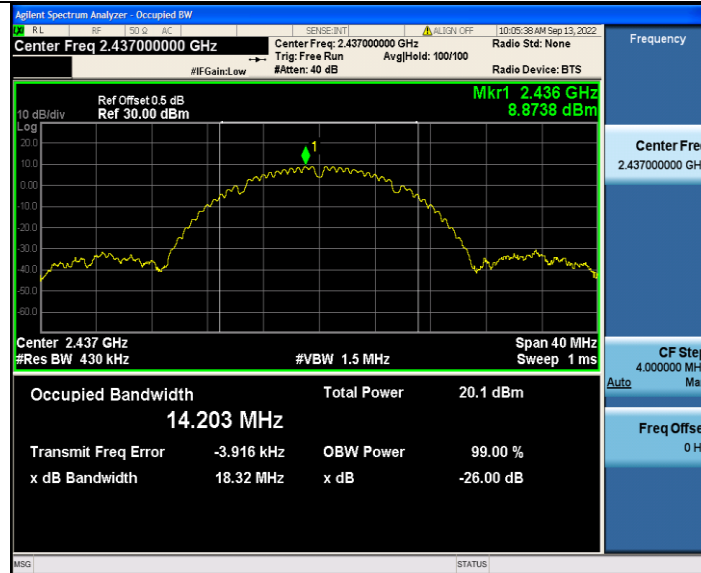
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

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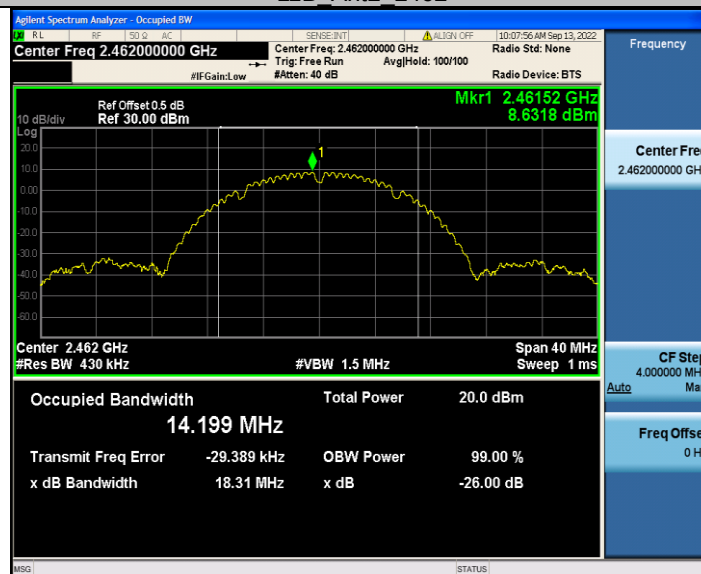
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



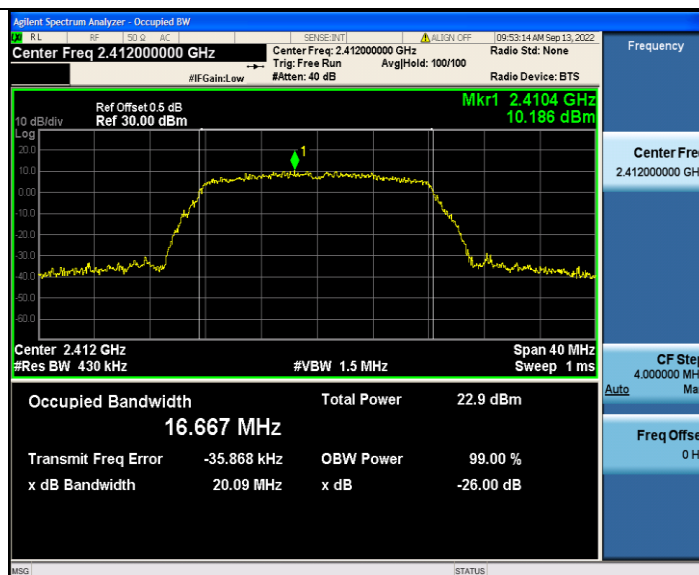
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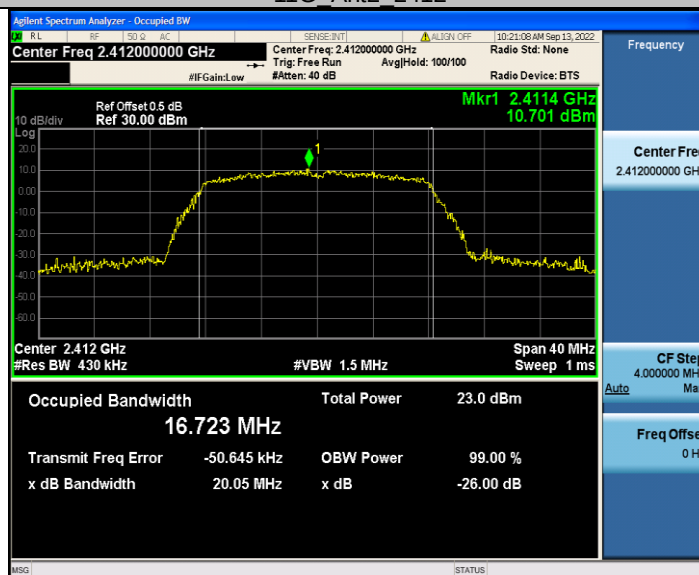
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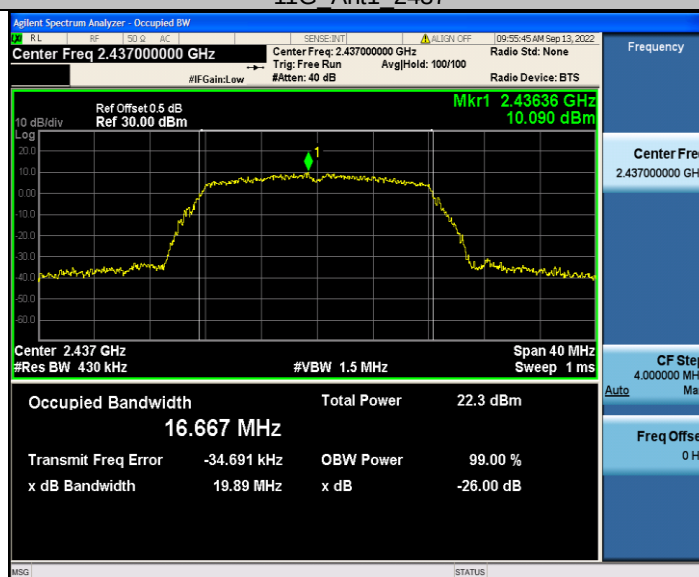
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

CTC Laboratories, Inc.

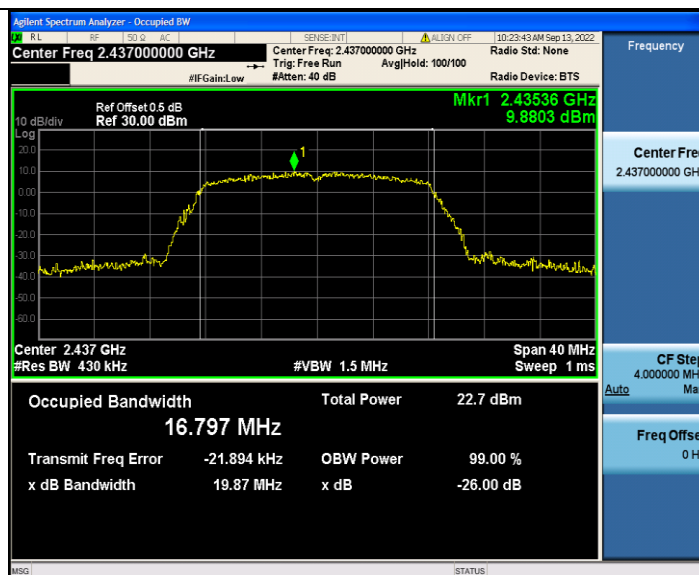
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

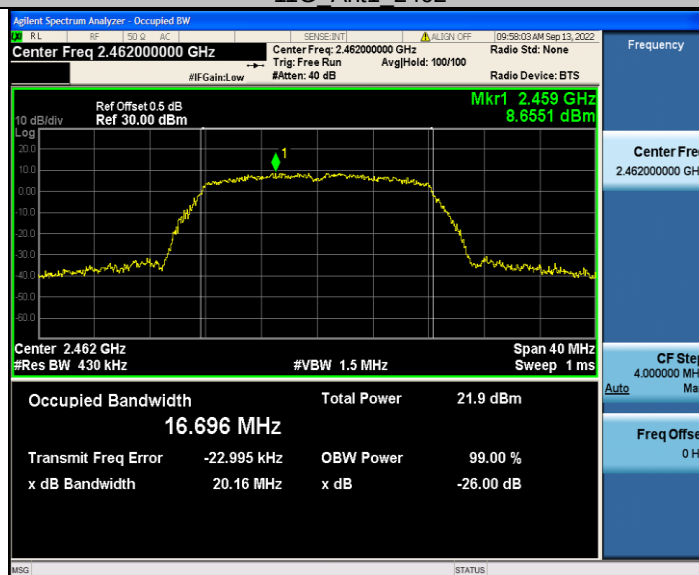
Fax: (86)755-27521011

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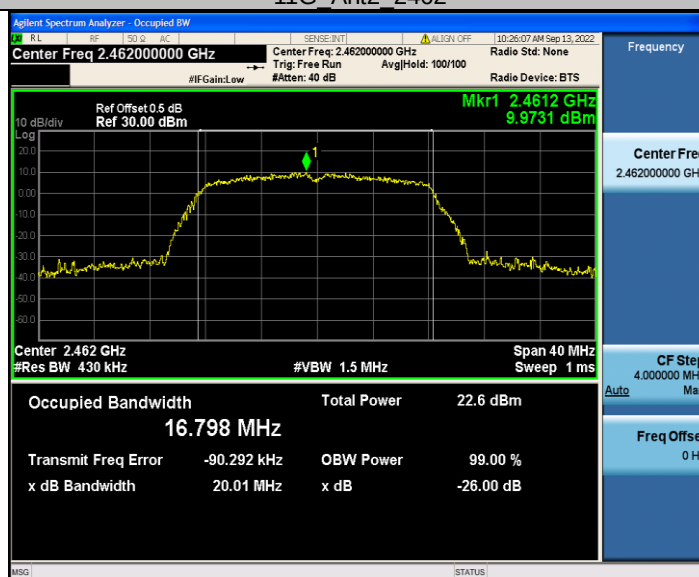
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



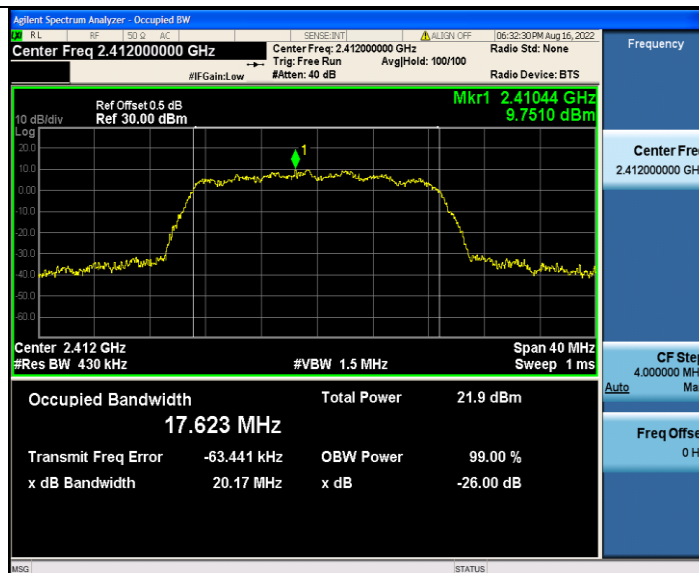
11G_Ant1_2462



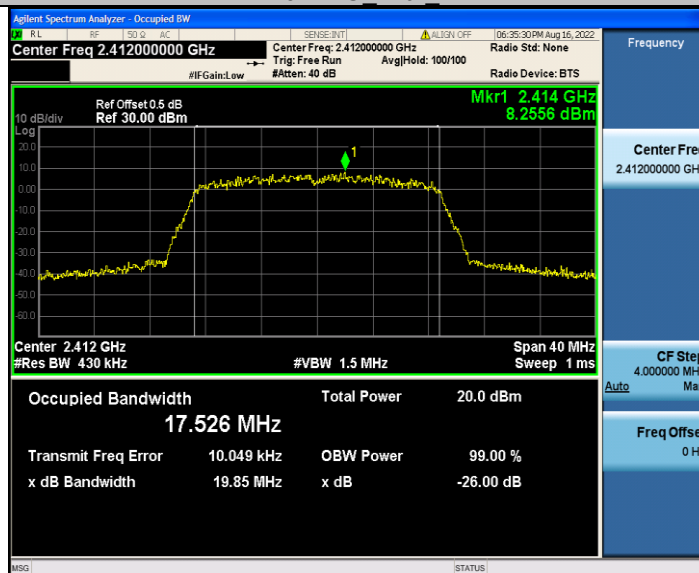
11G_Ant2_2462



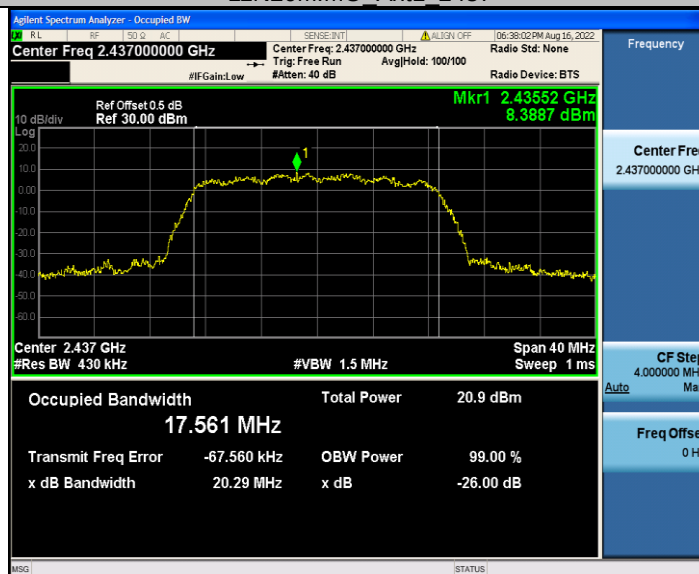
11N20MIMO_Ant1_2412



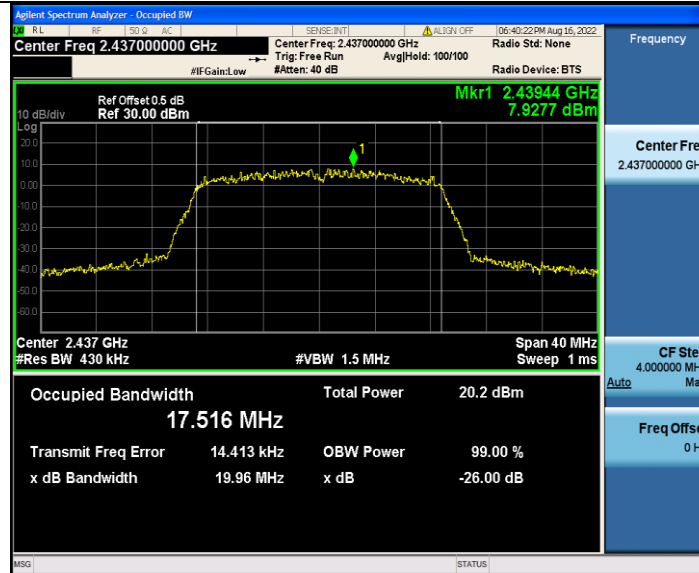
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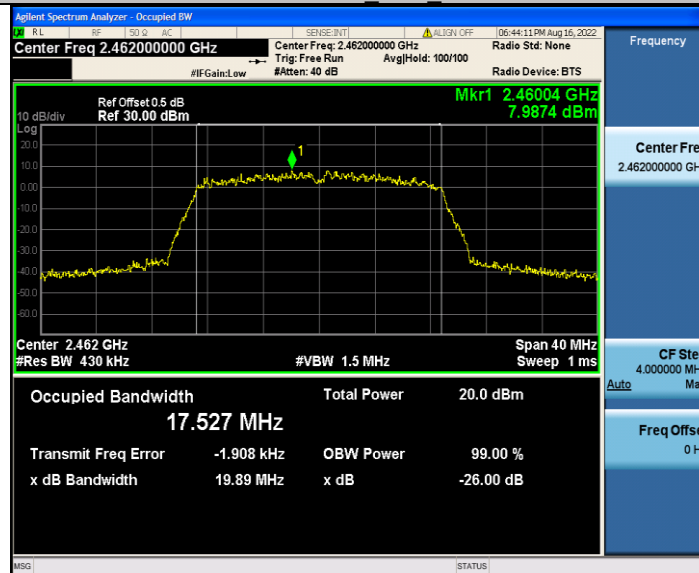
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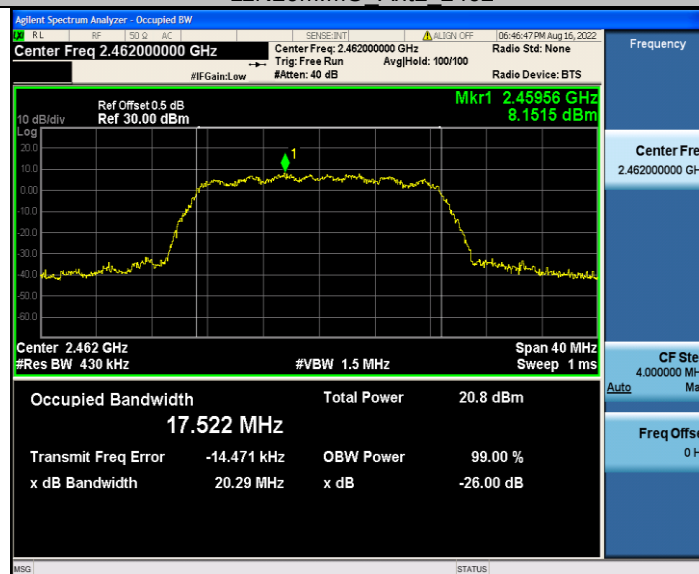
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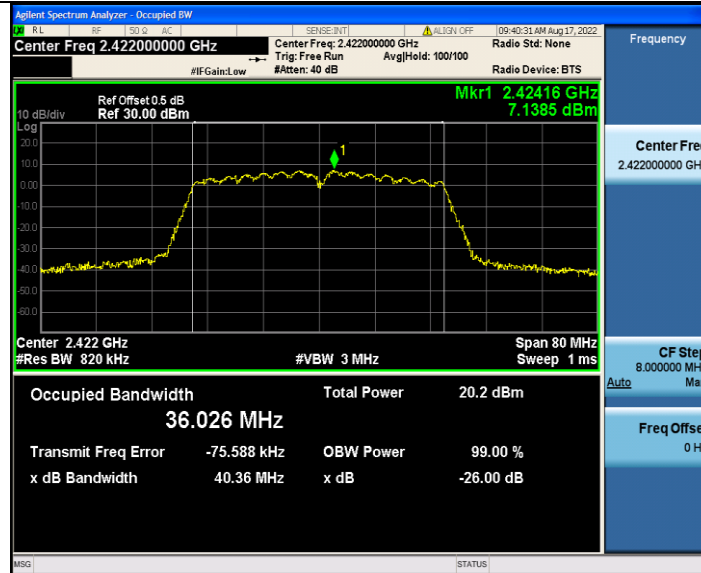
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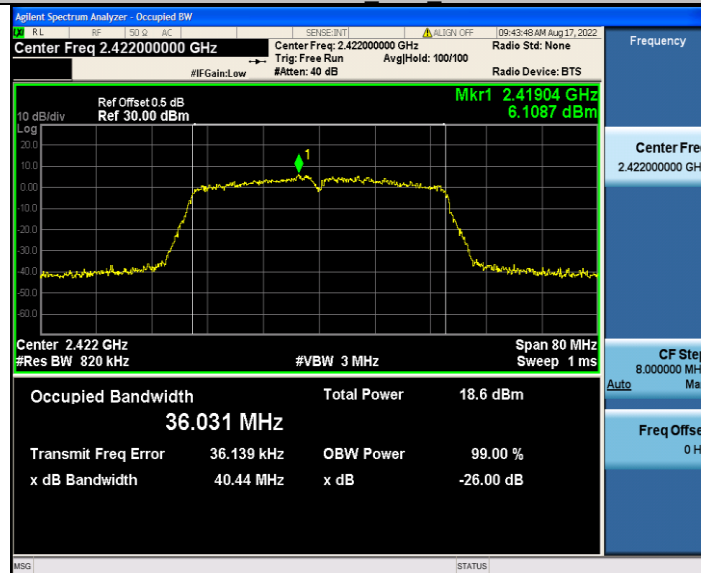
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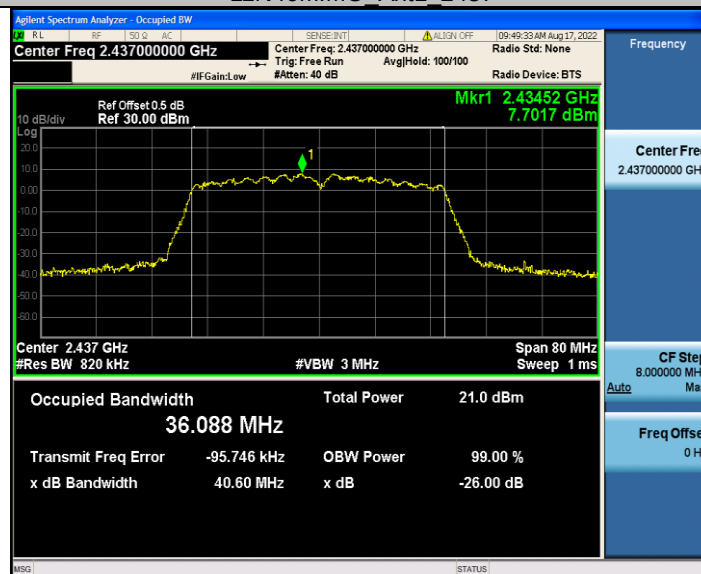
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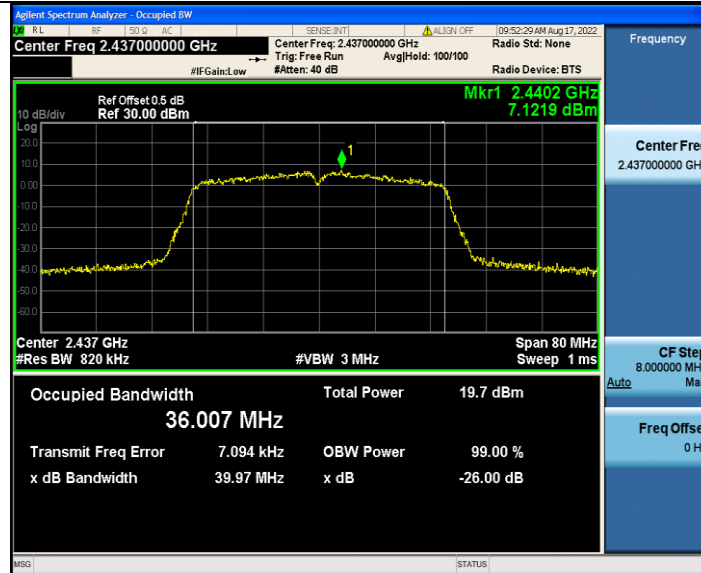
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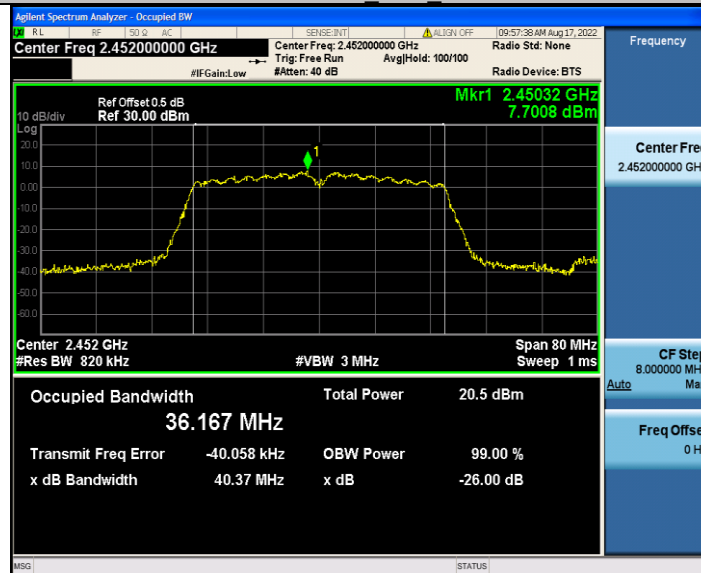
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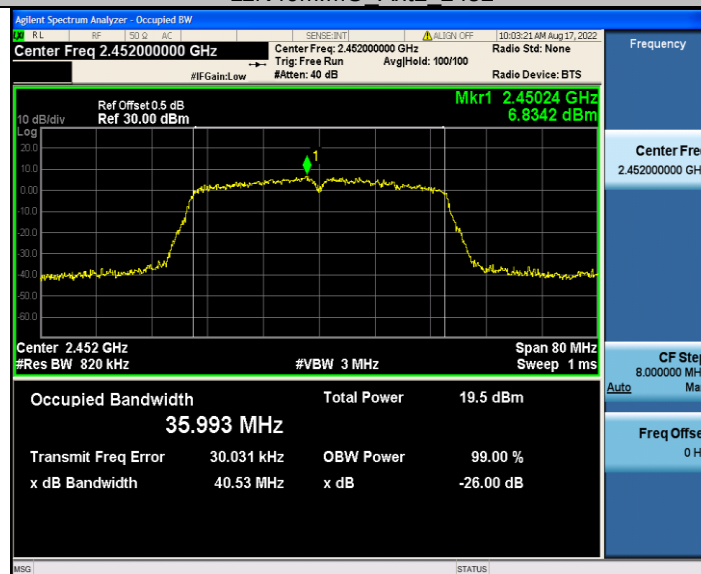
11N40MIMO_Ant2_2437



11N40MIMO Ant1 2452



11N40MIMO Ant2 2452





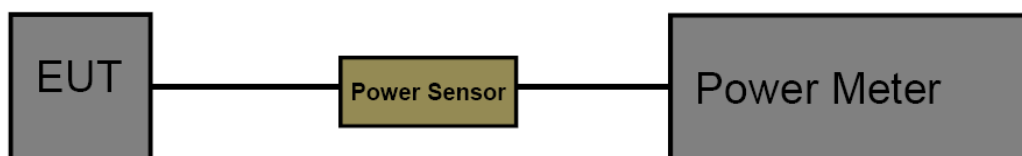
3.6. Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.3

Test Result



TestMode	Antenna	Channel	Result[dBm]	Max limit[dBm]	Verdict
11B	Ant1	2412	17.82	≤30	PASS
	Ant2	2412	17.36	≤30	PASS
	Ant1	2437	17.02	≤30	PASS
	Ant2	2437	17.21	≤30	PASS
	Ant1	2462	16.91	≤30	PASS
	Ant2	2462	17.03	≤30	PASS
11G	Ant1	2412	16.95	≤30	PASS
	Ant2	2412	17.15	≤30	PASS
	Ant1	2437	16.46	≤30	PASS
	Ant2	2437	16.85	≤30	PASS
	Ant1	2462	16.06	≤30	PASS
	Ant2	2462	16.77	≤30	PASS
11N20MIMO	Ant1	2412	15.62	≤28	PASS
	Ant2	2412	13.16	≤28	PASS
	total	2412	17.6	≤28	PASS
	Ant1	2437	14.93	≤28	PASS
	Ant2	2437	13.22	≤28	PASS
	total	2437	17.2	≤28	PASS
	Ant1	2462	13.09	≤28	PASS
	Ant2	2462	14.87	≤28	PASS
11N40MIMO	total	2462	17.1	≤28	PASS
	Ant1	2422	13.79	≤28	PASS
	Ant2	2422	11.57	≤28	PASS
	total	2422	15.8	≤28	PASS
	Ant1	2437	14.42	≤28	PASS
	Ant2	2437	12.69	≤28	PASS
	total	2437	16.7	≤28	PASS
	Ant1	2452	14.08	≤28	PASS
	Ant2	2452	12.53	≤28	PASS
	total	2452	16.4	≤28	PASS

Note:

1. Test results increased RF cable loss by 0.5dB.



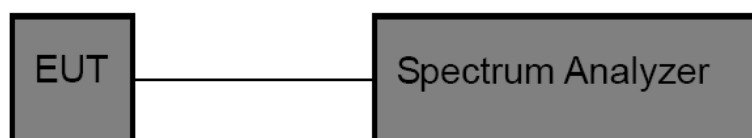
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.3

Test Result



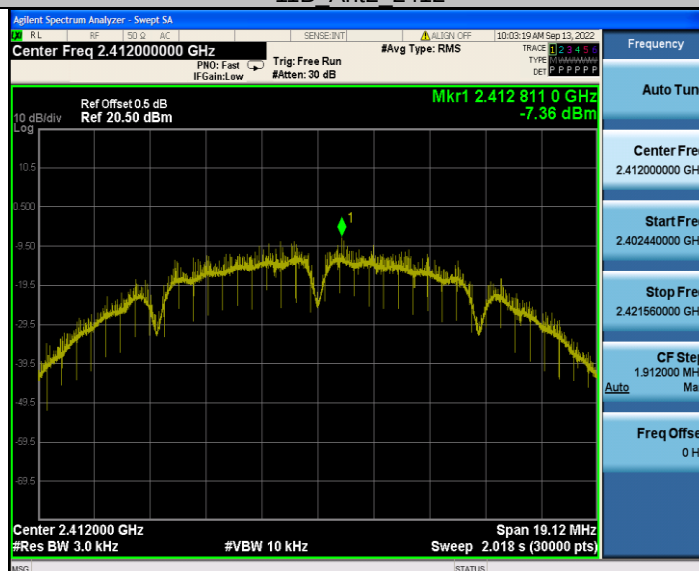
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	With beamforming limit[dBm]	Verdict
11B	Ant1	2412	-7.92	≤8	PASS
	Ant2	2412	-7.36	≤8	PASS
	Ant1	2437	-7.72	≤8	PASS
	Ant2	2437	-6.47	≤8	PASS
	Ant1	2462	-7.37	≤8	PASS
	Ant2	2462	-4.89	≤8	PASS
11G	Ant1	2412	-8.39	≤8	PASS
	Ant2	2412	-9.77	≤8	PASS
	Ant1	2437	-9.33	≤8	PASS
	Ant2	2437	-10.05	≤8	PASS
	Ant1	2462	-9.37	≤8	PASS
	Ant2	2462	-9.35	≤8	PASS
11N20MIMO	Ant1	2412	-10.04	≤6	PASS
	Ant2	2412	-12.78	≤6	PASS
	total	2412	-8.19	≤6	PASS
	Ant1	2437	-10.59	≤6	PASS
	Ant2	2437	-12.15	≤6	PASS
	total	2437	-8.29	≤6	PASS
	Ant1	2462	-13.05	≤6	PASS
	Ant2	2462	-10.73	≤6	PASS
	total	2462	-8.73	≤6	PASS
11N40MIMO	Ant1	2422	-14.36	≤6	PASS
	Ant2	2422	-17.22	≤6	PASS
	total	2422	-12.55	≤6	PASS
	Ant1	2437	-14.04	≤6	PASS
	Ant2	2437	-16.55	≤6	PASS
	total	2437	-12.11	≤6	PASS
	Ant1	2452	-14.56	≤6	PASS
	Ant2	2452	-16.12	≤6	PASS
	total	2452	-12.26	≤6	PASS



11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437

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11B Ant1_2462



11B Ant2_2462



11G Ant1_2412

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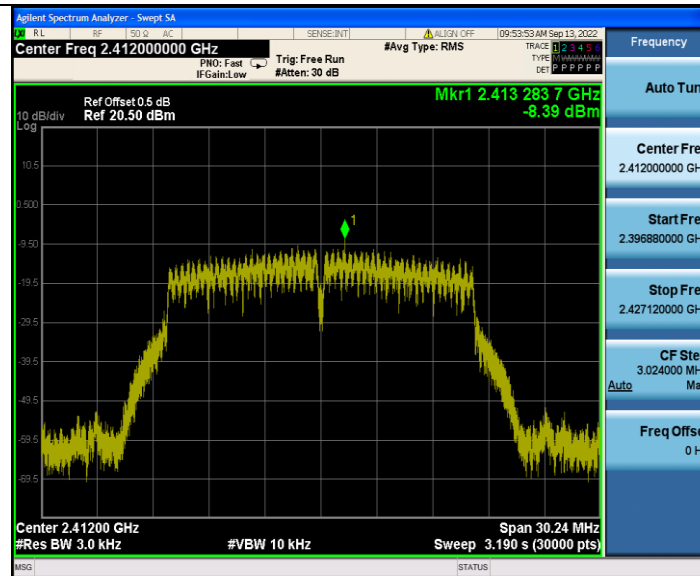
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

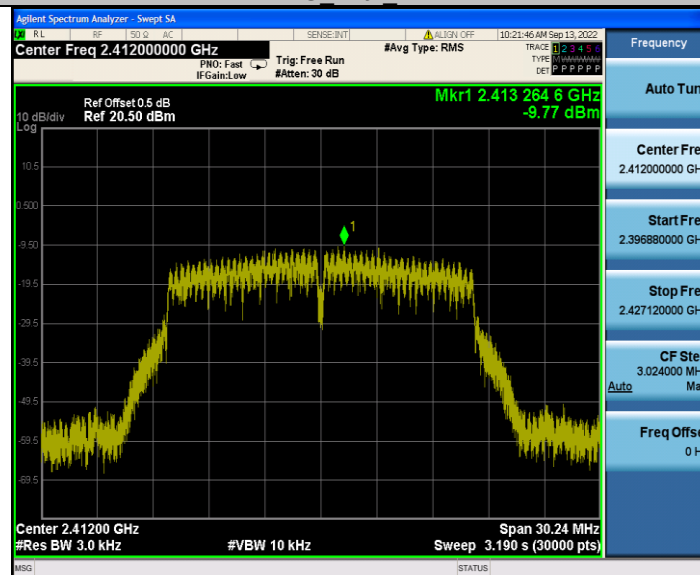
Fax: (86)755-27521011

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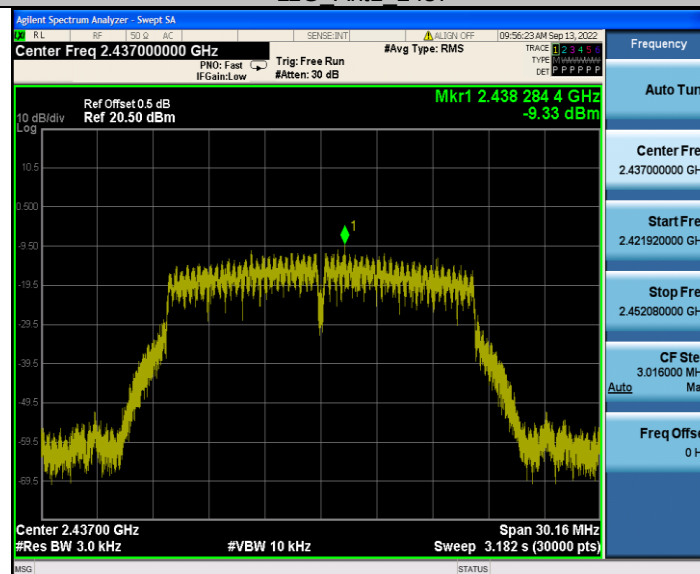
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

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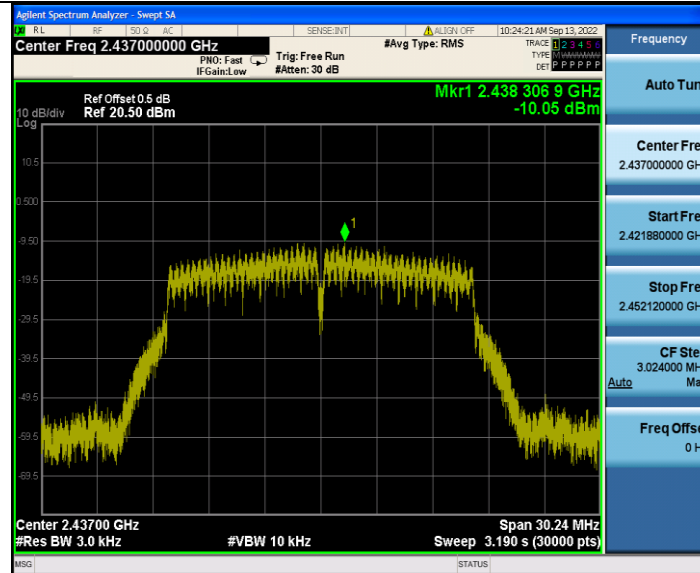
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

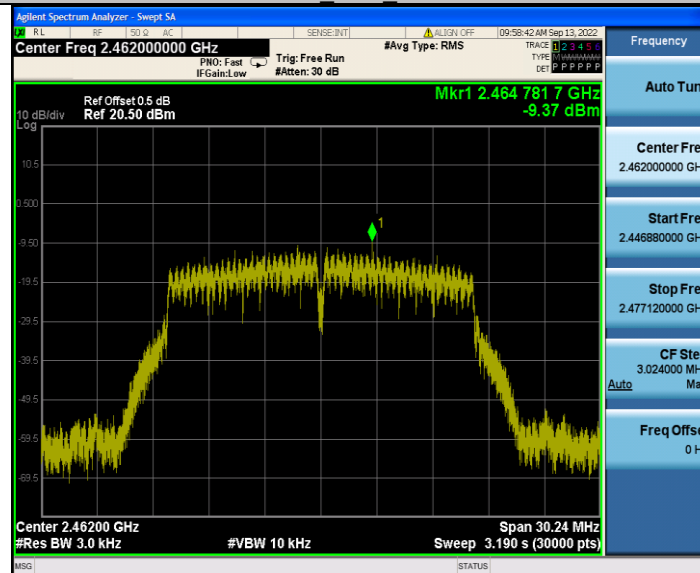
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

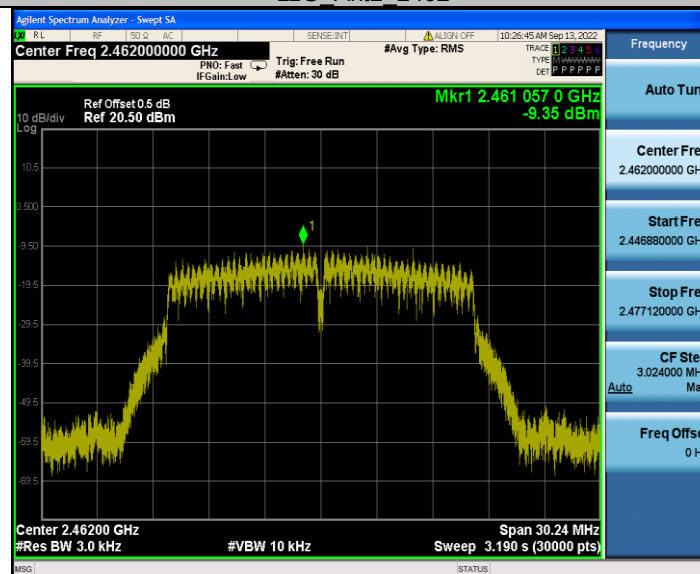
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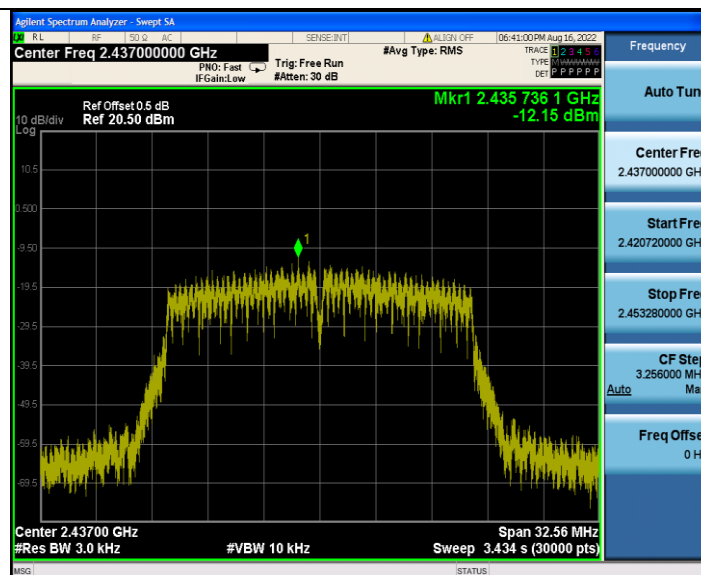
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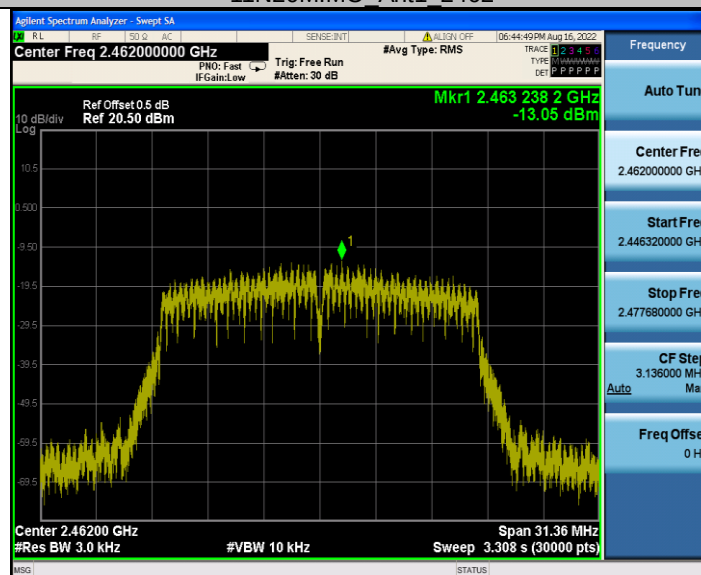
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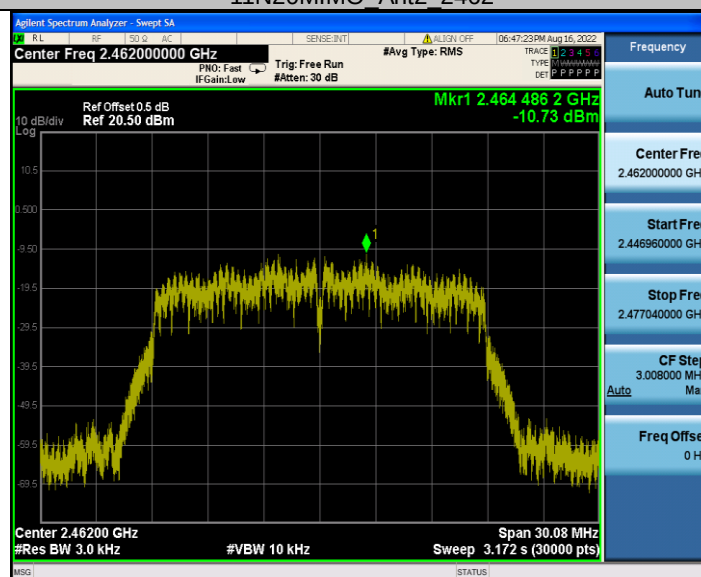
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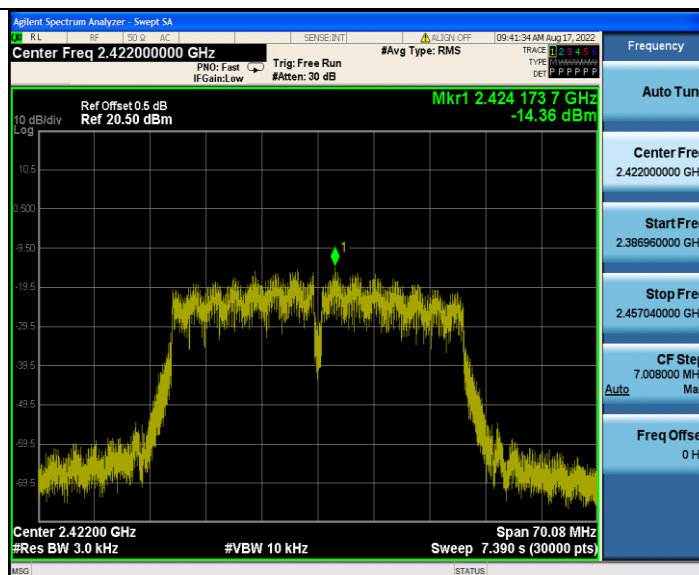
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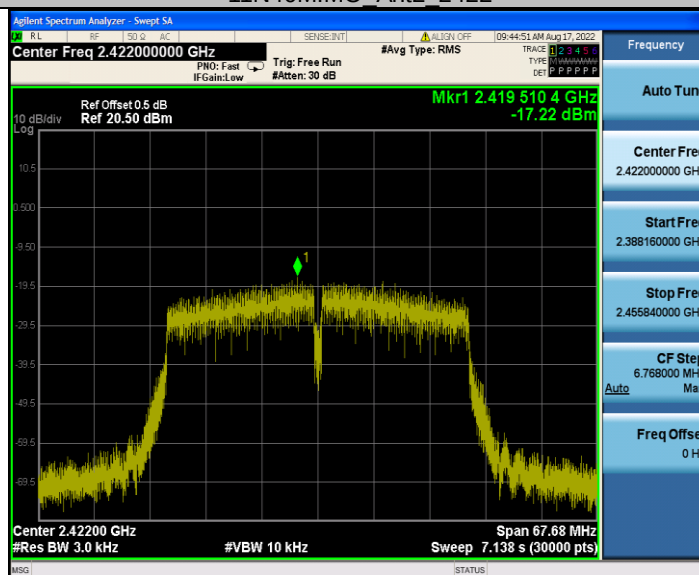
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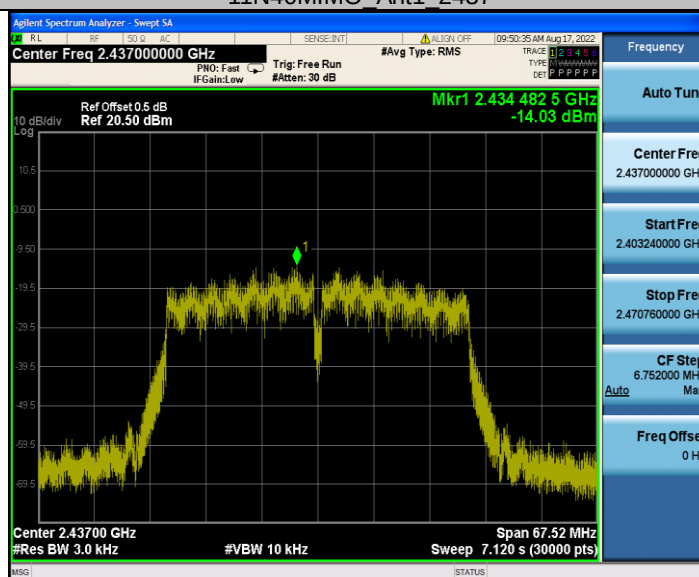
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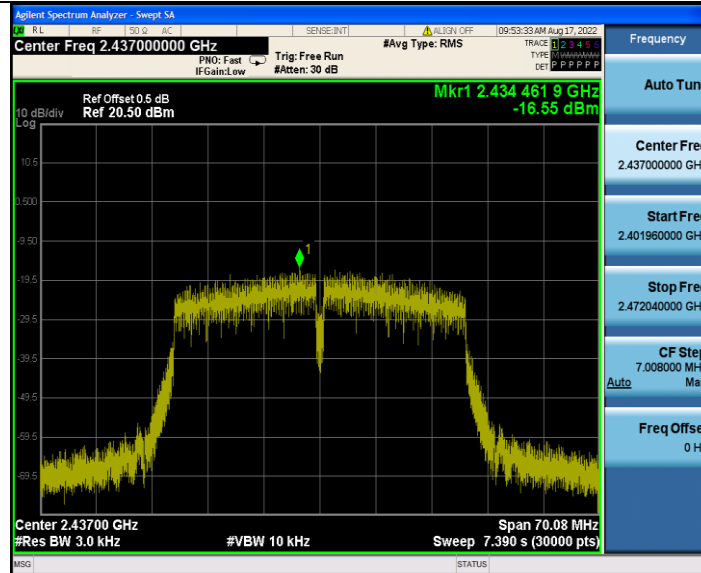
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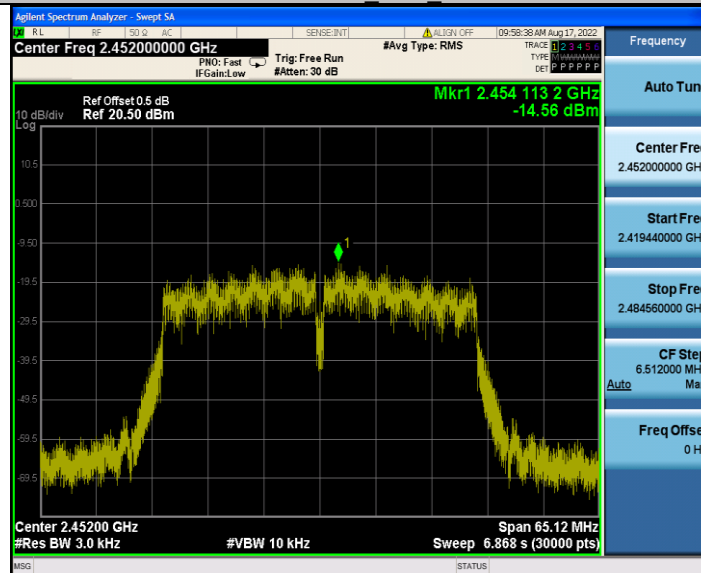
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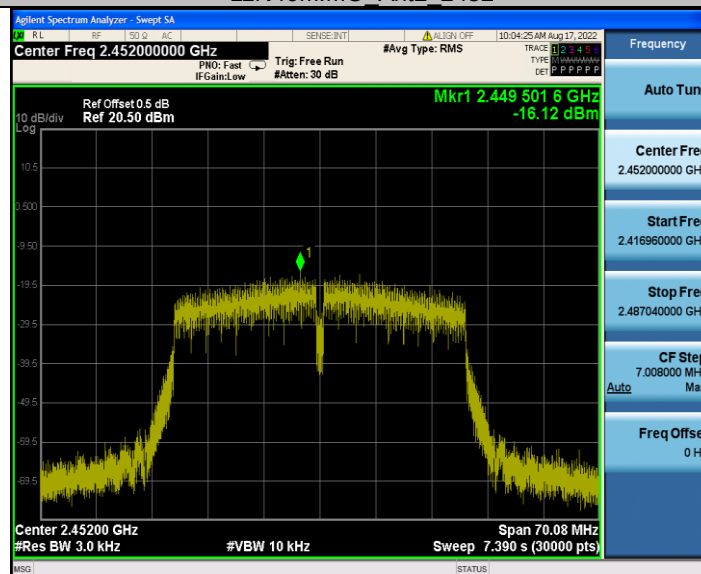
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452





3.8. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

Complies