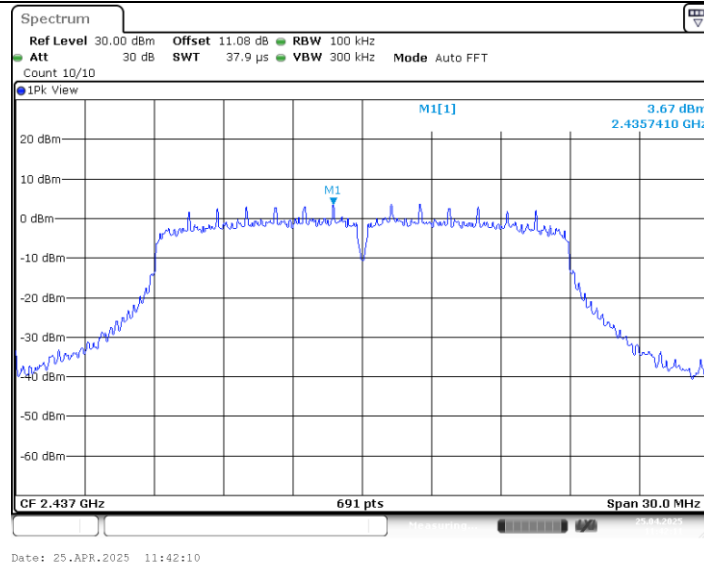
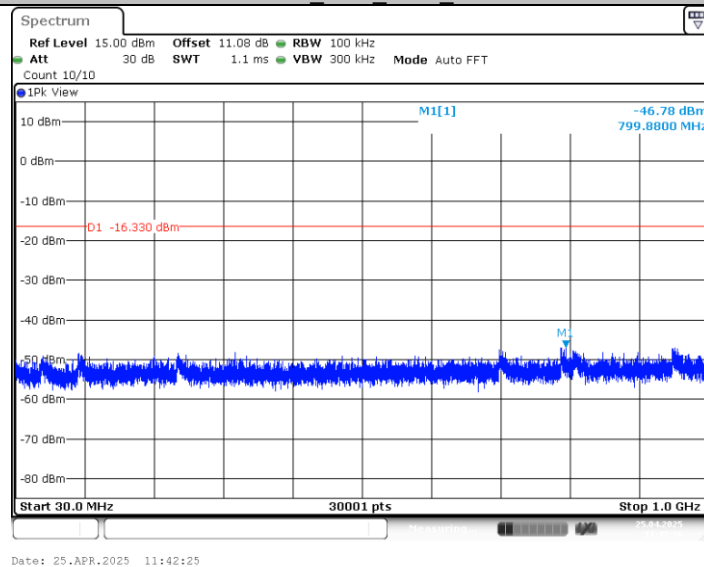
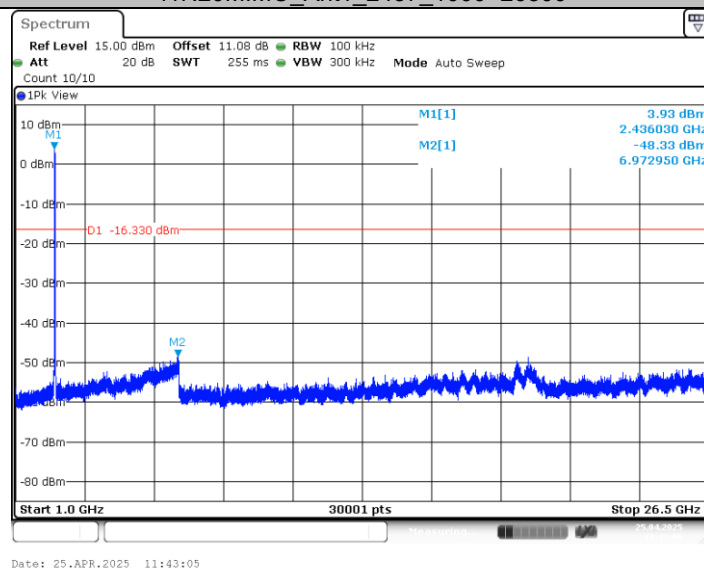




11N20MIMO_Ant1_2437_30~1000



11N20MIMO_Ant1_2437_1000~26500



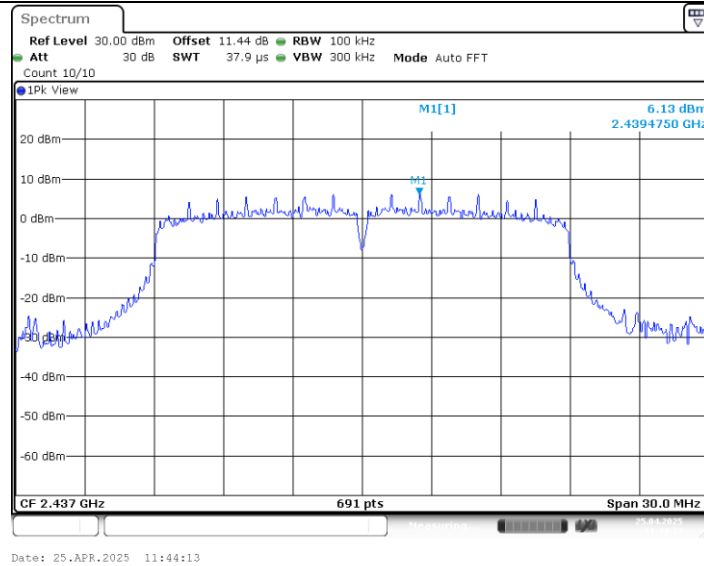
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CTC Laboratories, Inc.

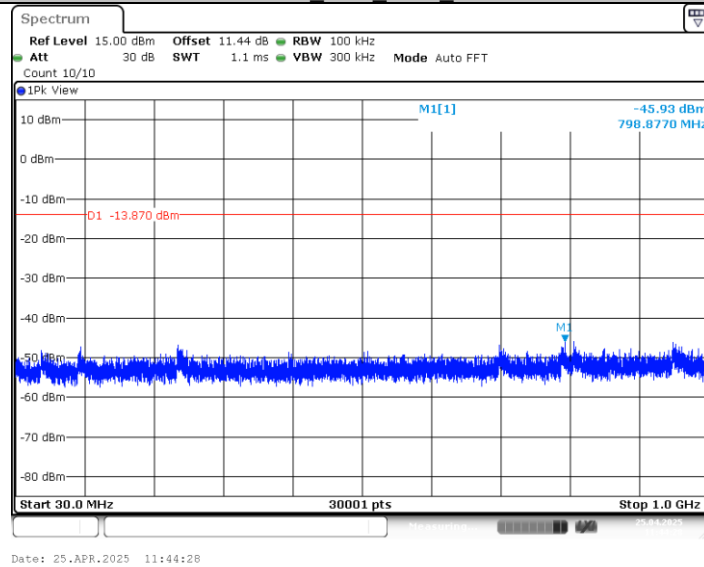
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

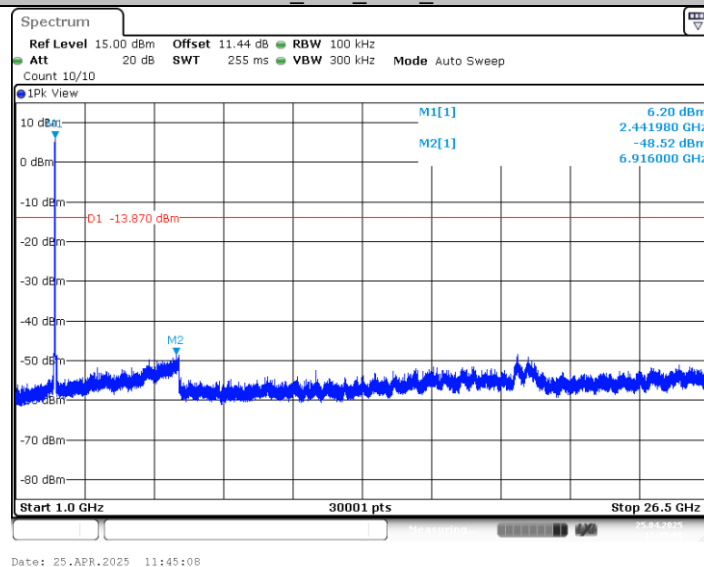
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_2437_30~1000



11N20MIMO_Ant2_2437_1000~26500



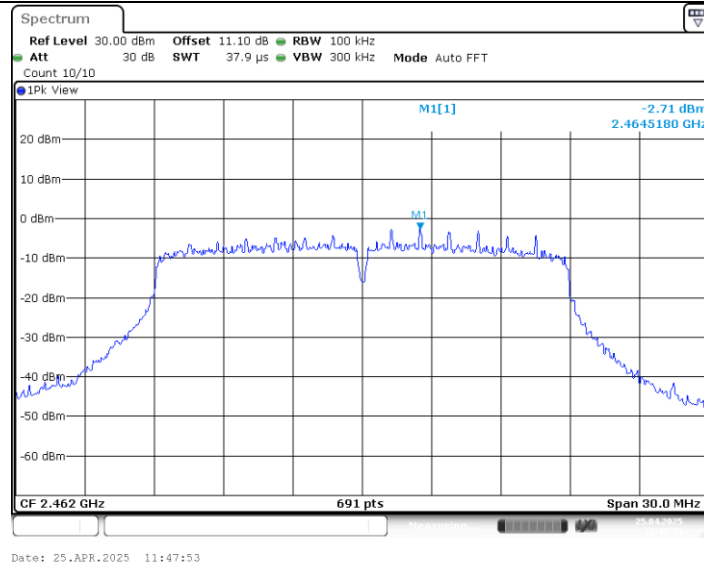
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CTC Laboratories, Inc.

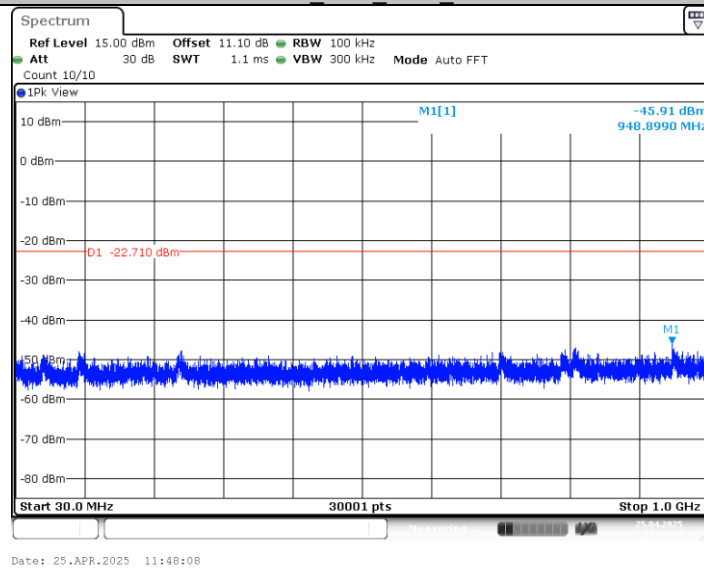
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

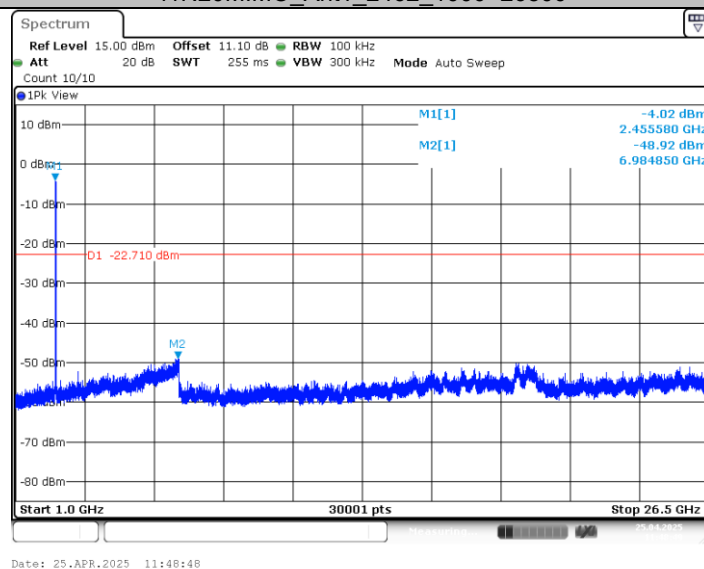
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Society : yz.cncaq.com



11N20MIMO_Ant1_2462_30~1000



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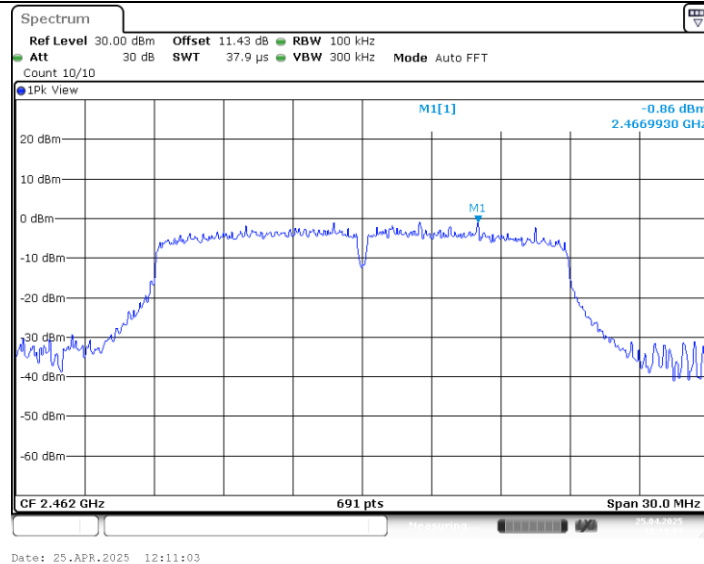
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CTC Laboratories, Inc.

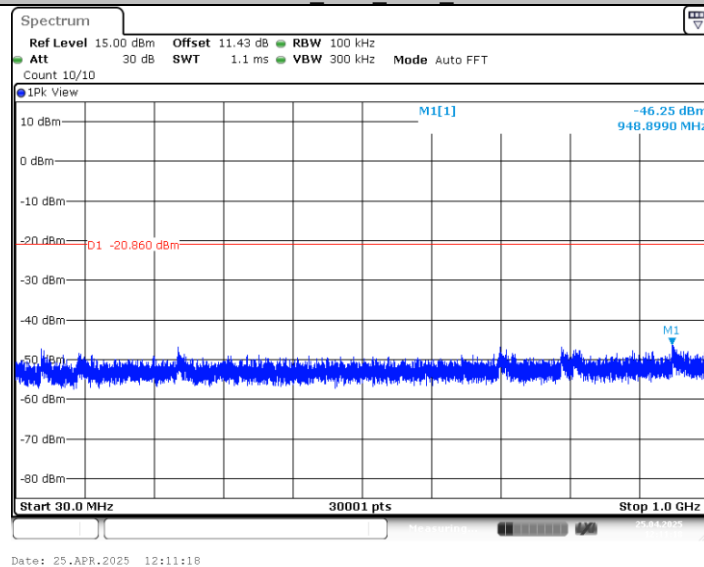
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict,
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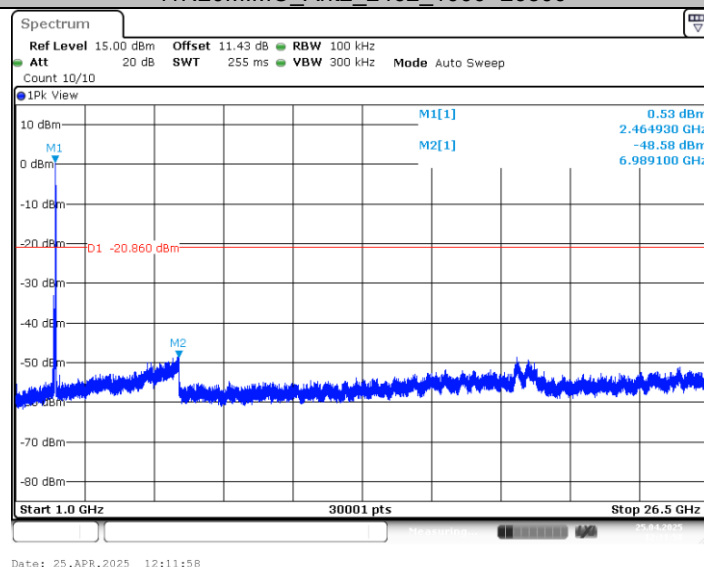
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_2462_30~1000



11N20MIMO_Ant2_2462_1000~26500



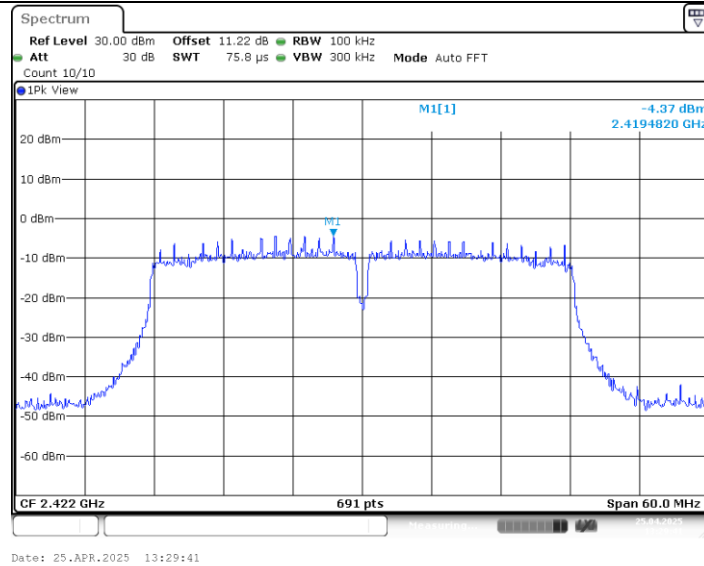
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CTC Laboratories, Inc.

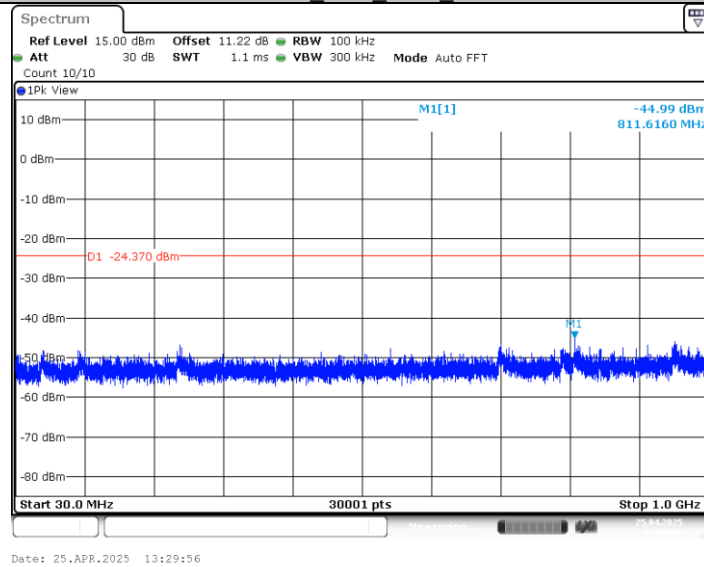
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

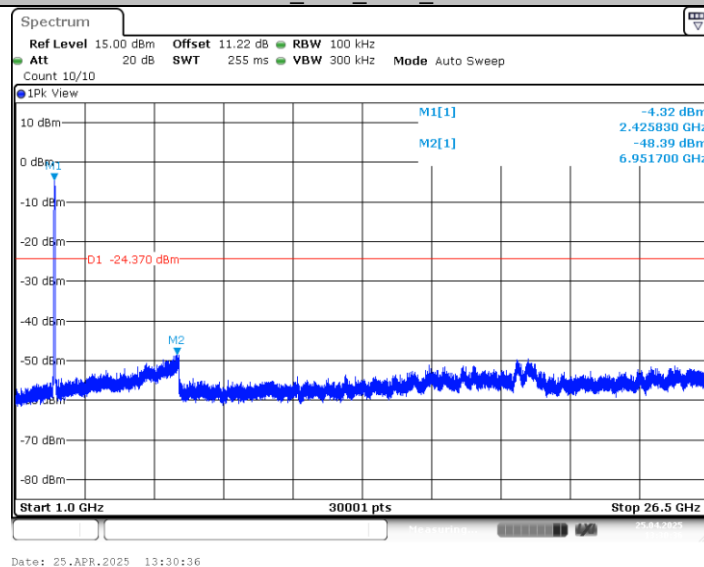
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant1_2422_30~1000



11N40MIMO_Ant1_2422_1000~26500



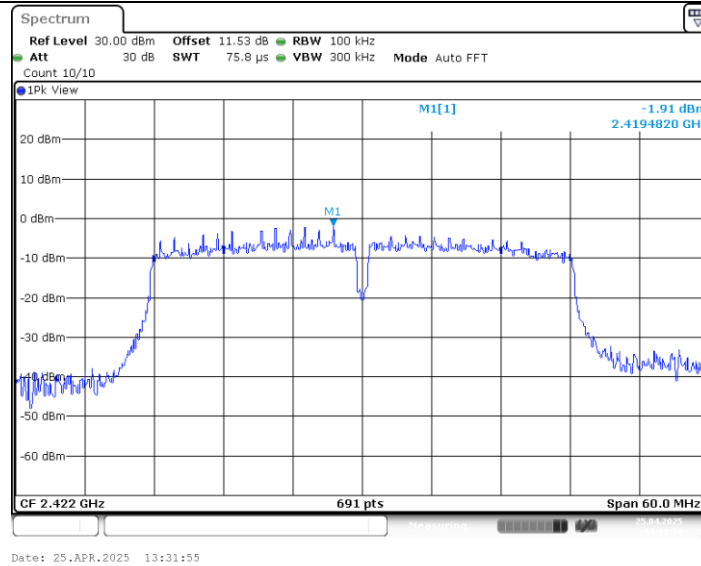
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CTC Laboratories, Inc.

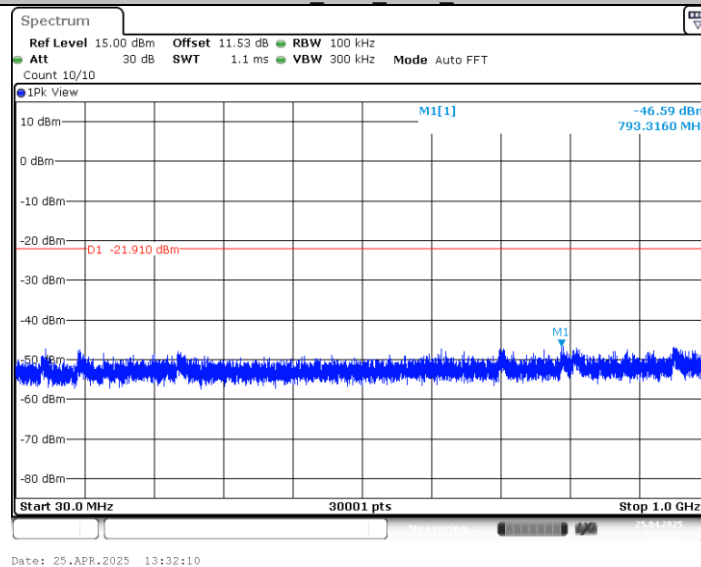
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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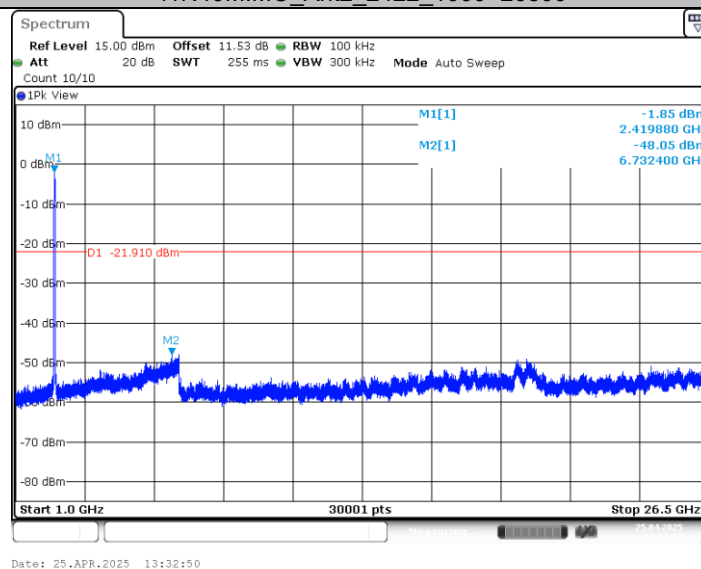
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant2_2422_30~1000



11N40MIMO_Ant2_2422_1000~26500



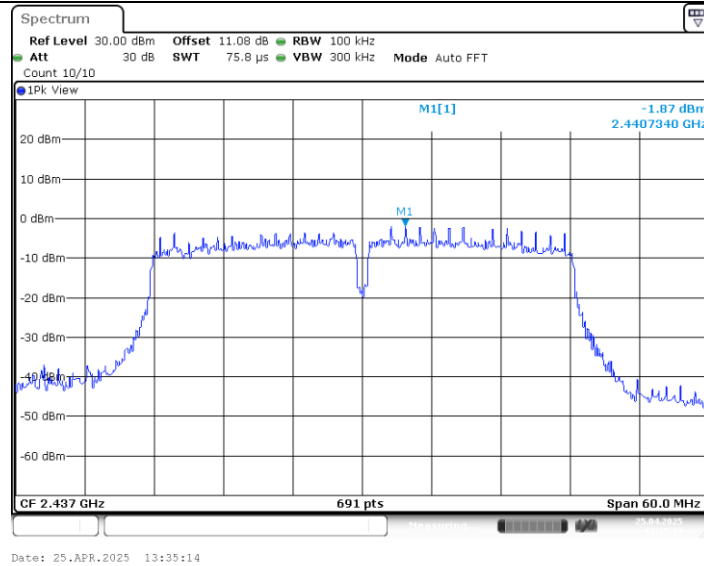
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CTC Laboratories, Inc.

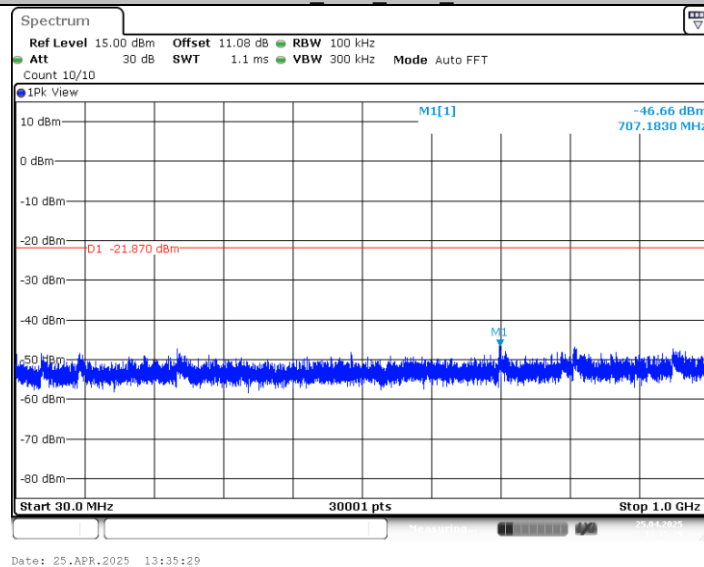
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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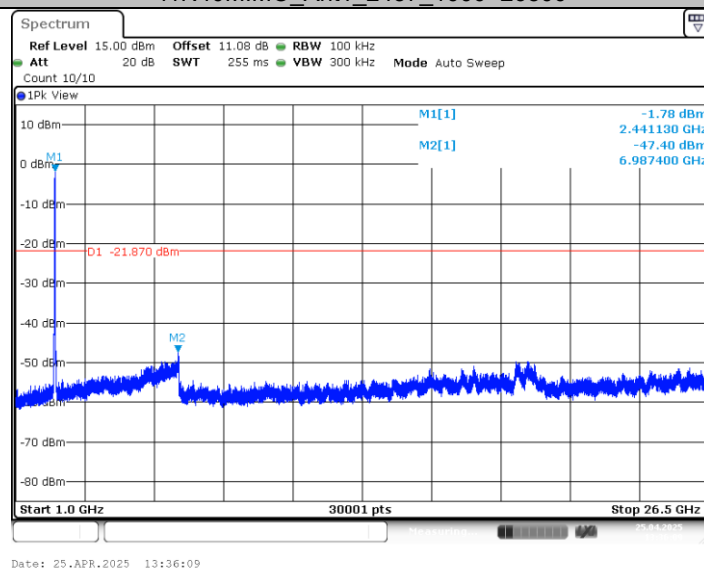
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11N40MIMO_Ant1_2437_30~1000



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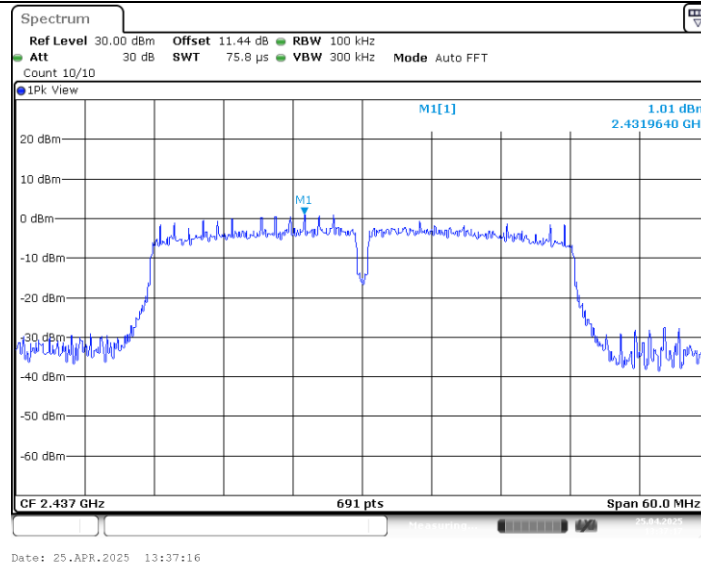
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CTC Laboratories, Inc.

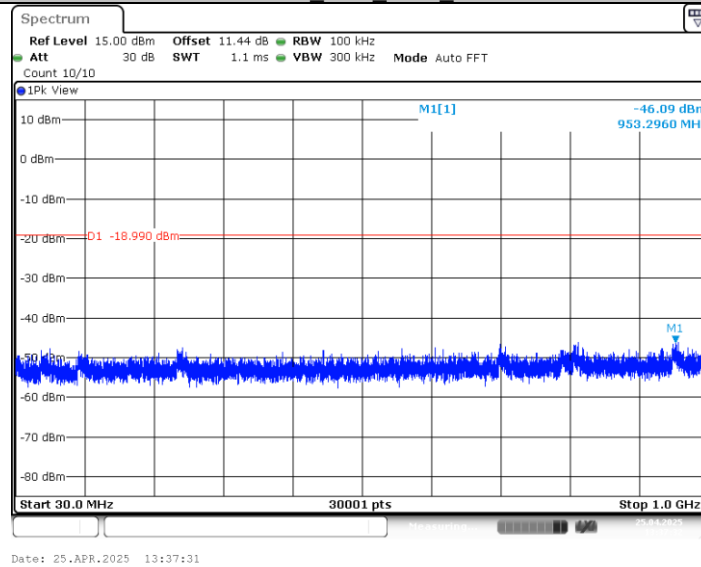
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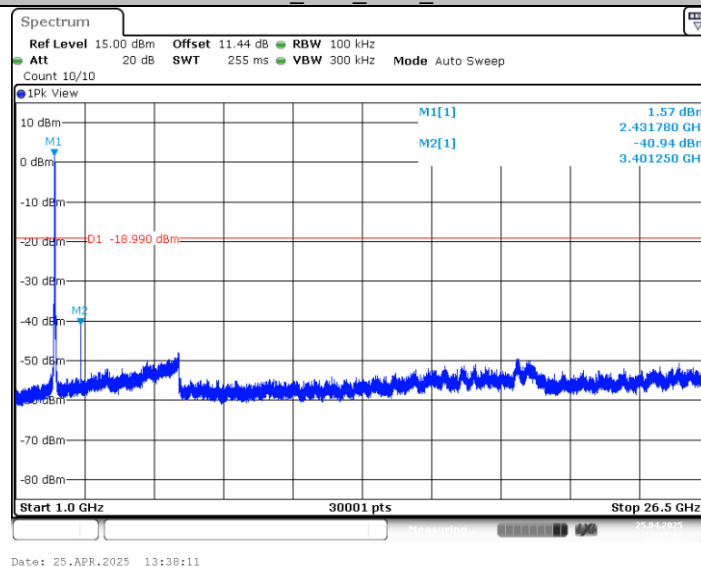
For anti-fake verification, please visit the official website of China Inspection And Testing
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11N40MIMO_Ant2_2437_30~1000



11N40MIMO_Ant2_2437_1000~26500



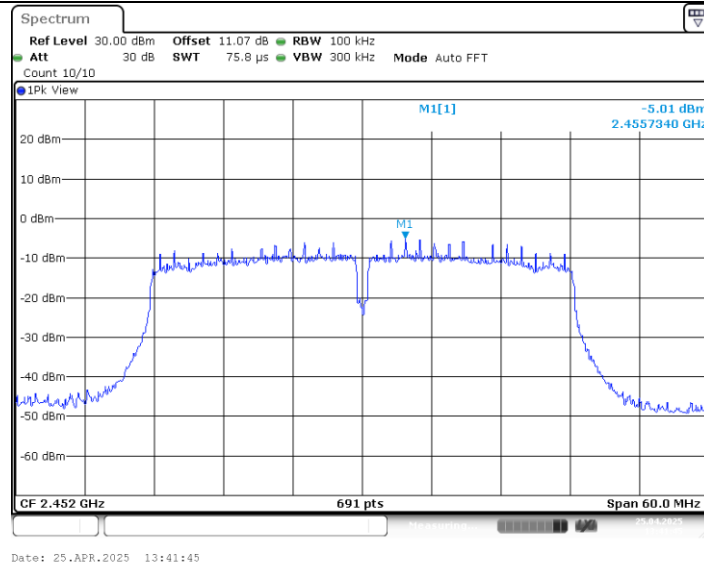
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CTC Laboratories, Inc.

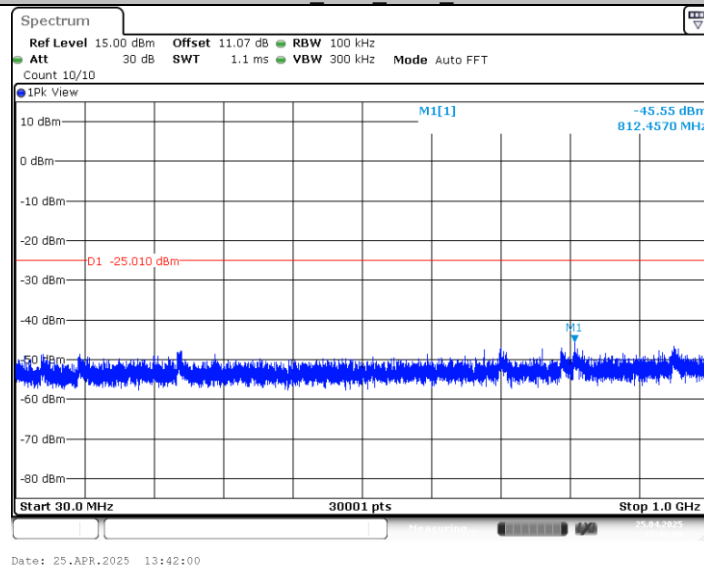
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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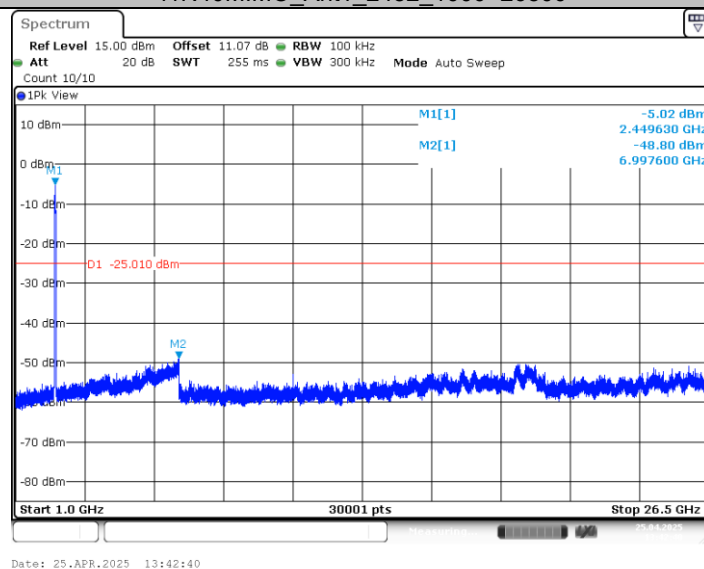
For anti-fake verification, please visit the official website of China Inspection And Testing
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11N40MIMO_Ant1_2452_30~1000



11N40MIMO_Ant1_2452_1000~26500



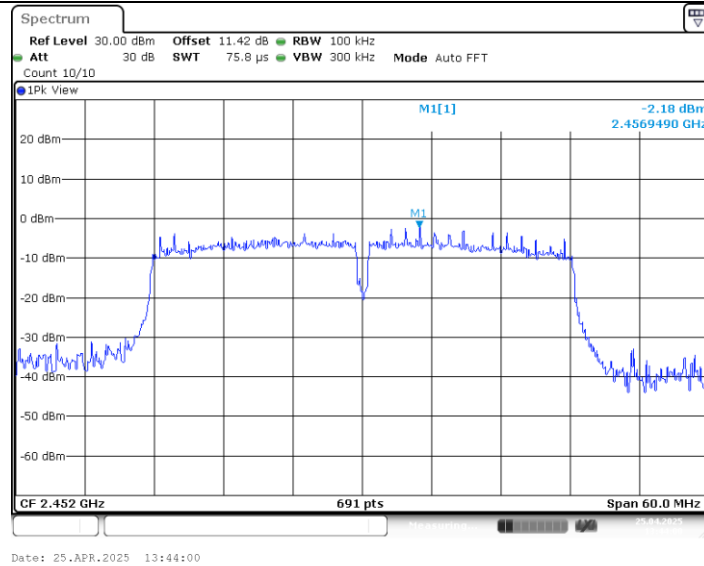
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CTC Laboratories, Inc.

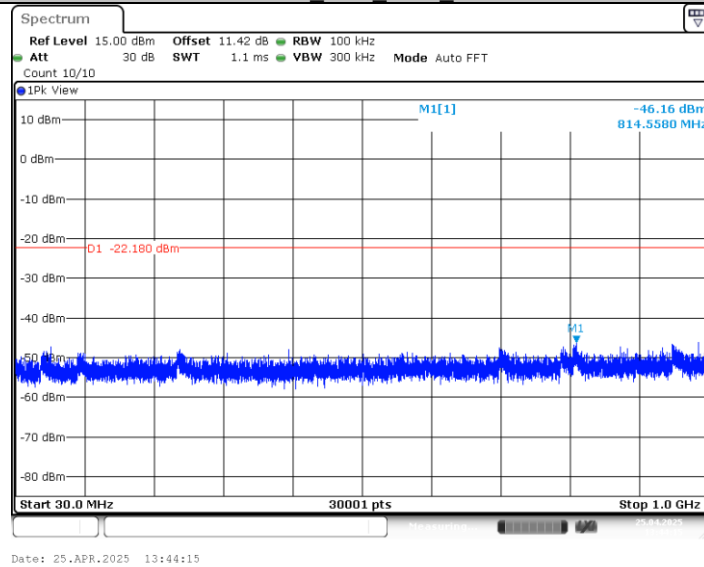
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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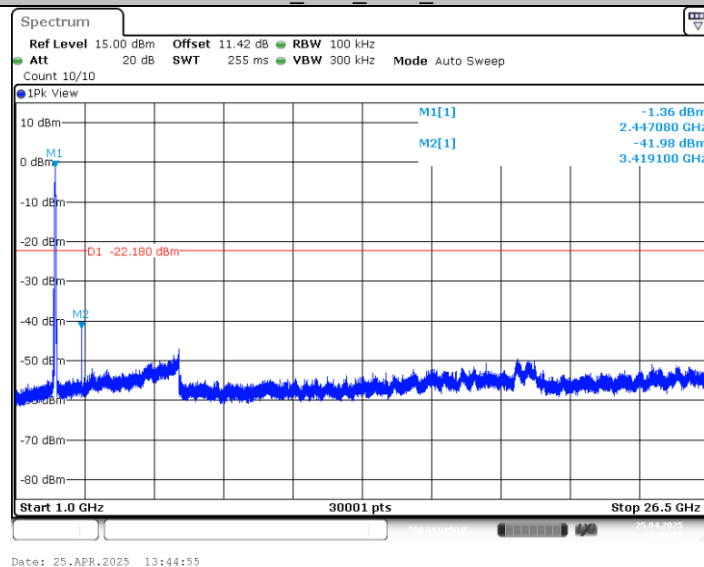
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11N40MIMO_Ant2_2452_30~1000



11N40MIMO_Ant2_2452_1000~26500



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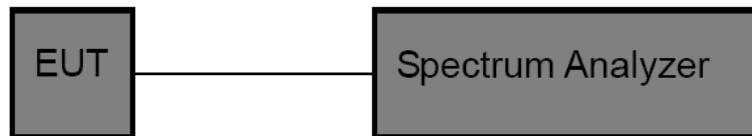
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥ 500 kHz (6dB bandwidth)	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. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.865	10.08	0.5	PASS
	Ant2	2412	14.785	10.08	0.5	PASS
	Ant1	2437	14.865	10.08	0.5	PASS
	Ant2	2437	14.865	10.08	0.5	PASS
	Ant1	2462	14.905	10.08	0.5	PASS
	Ant2	2462	14.905	10.08	0.5	PASS
11G	Ant1	2412	17.183	16.40	0.5	PASS
	Ant2	2412	16.783	16.40	0.5	PASS
	Ant1	2437	17.103	16.40	0.5	PASS
	Ant2	2437	16.783	16.36	0.5	PASS
	Ant1	2462	17.063	16.32	0.5	PASS
	Ant2	2462	16.943	16.36	0.5	PASS
11N20MIMO	Ant1	2412	17.942	15.64	0.5	PASS
	Ant2	2412	17.982	16.32	0.5	PASS
	Ant1	2437	17.822	15.68	0.5	PASS
	Ant2	2437	18.022	17.60	0.5	PASS
	Ant1	2462	17.822	17.56	0.5	PASS
	Ant2	2462	17.862	17.60	0.5	PASS
11N40MIMO	Ant1	2422	36.603	35.20	0.5	PASS
	Ant2	2422	36.284	35.20	0.5	PASS
	Ant1	2437	36.444	35.12	0.5	PASS
	Ant2	2437	36.523	35.20	0.5	PASS
	Ant1	2452	36.444	35.52	0.5	PASS
	Ant2	2452	36.044	34.96	0.5	PASS

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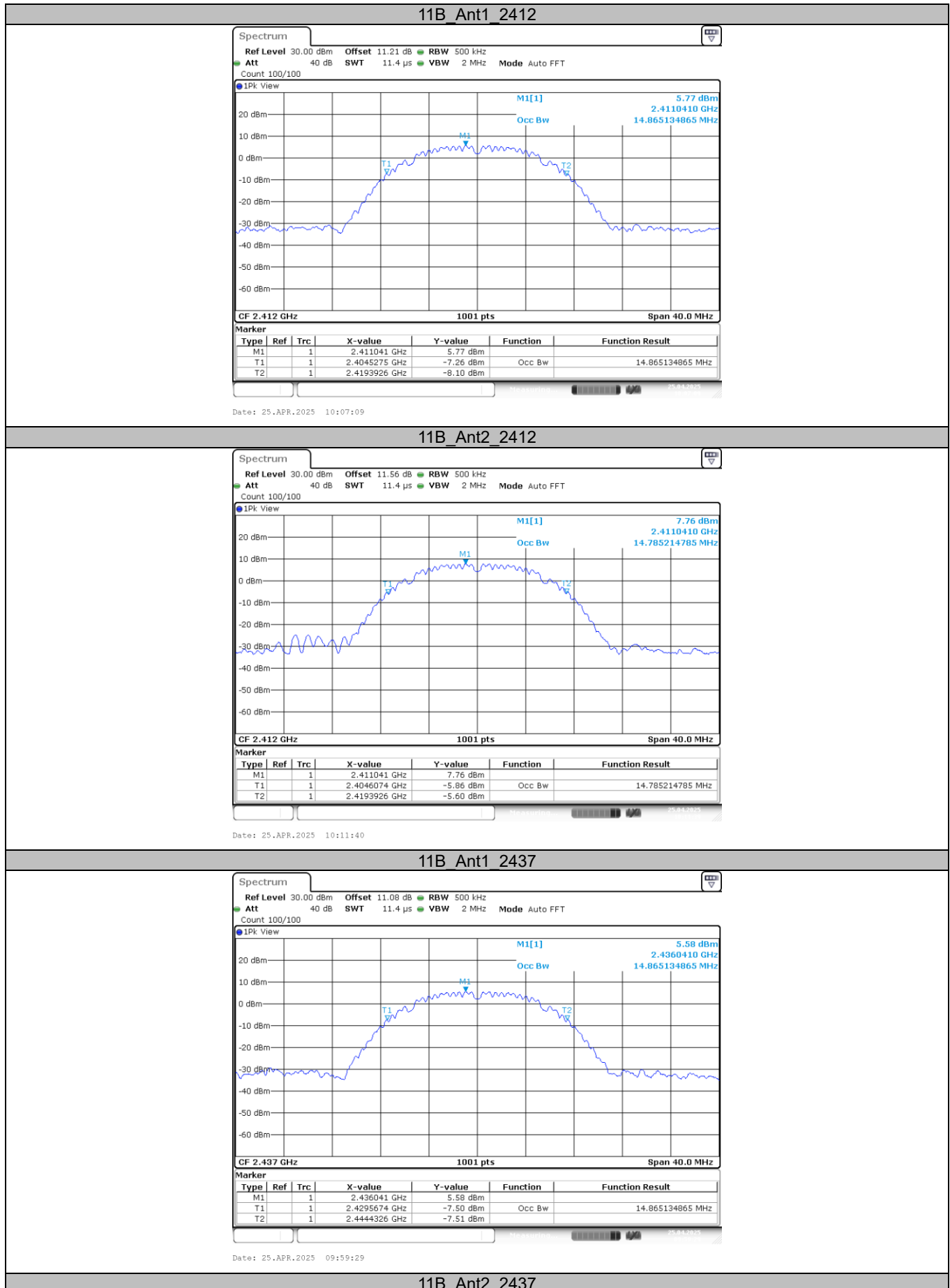
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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99% Bandwidth:

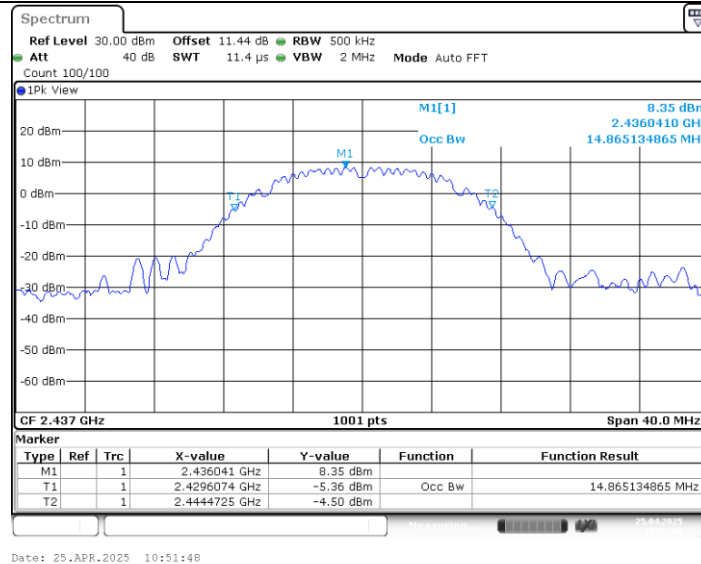


CTC Laboratories, Inc.

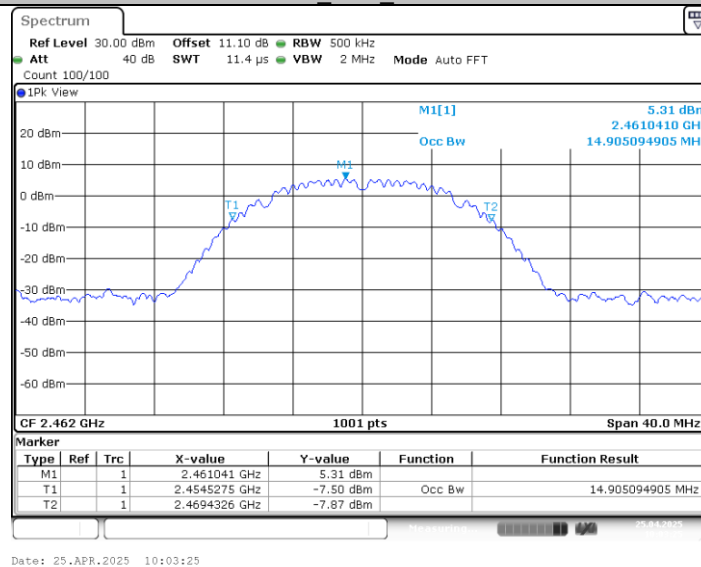
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
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TRF No: CTC-TR-057_A2

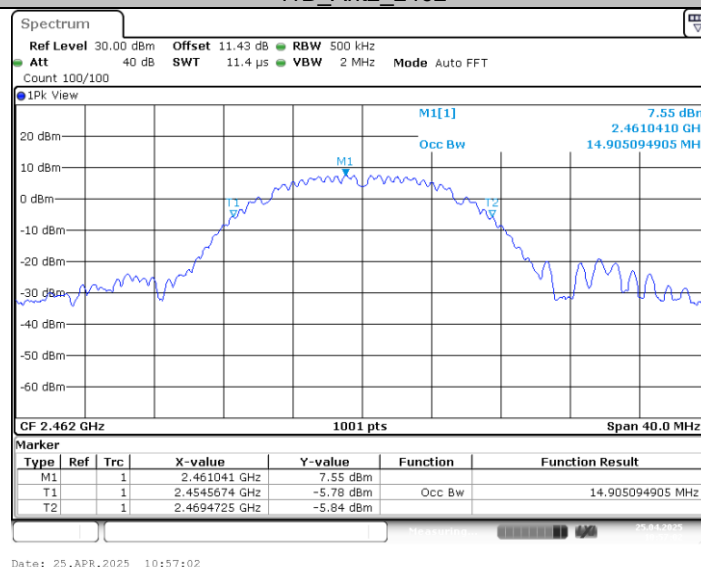
For anti-fake verification, please visit the official website of China Inspection And Testing
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11B_Ant1_2462



11B_Ant2_2462



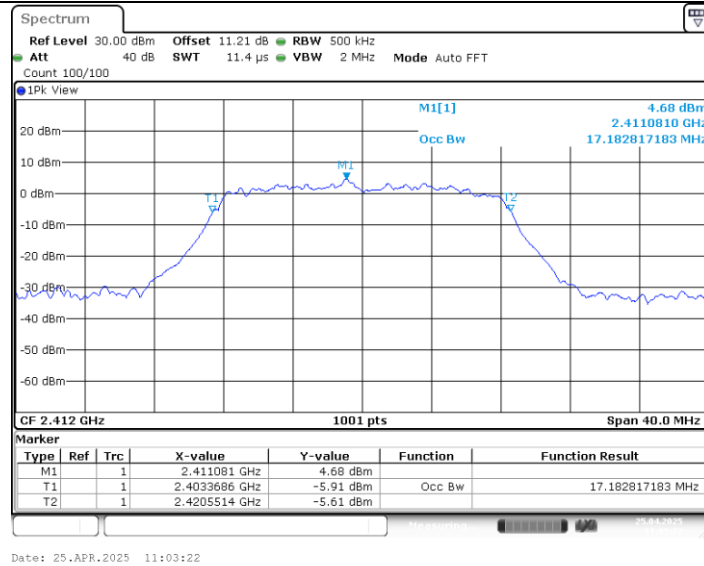
11G_Ant1_2412

CTC Laboratories, Inc.

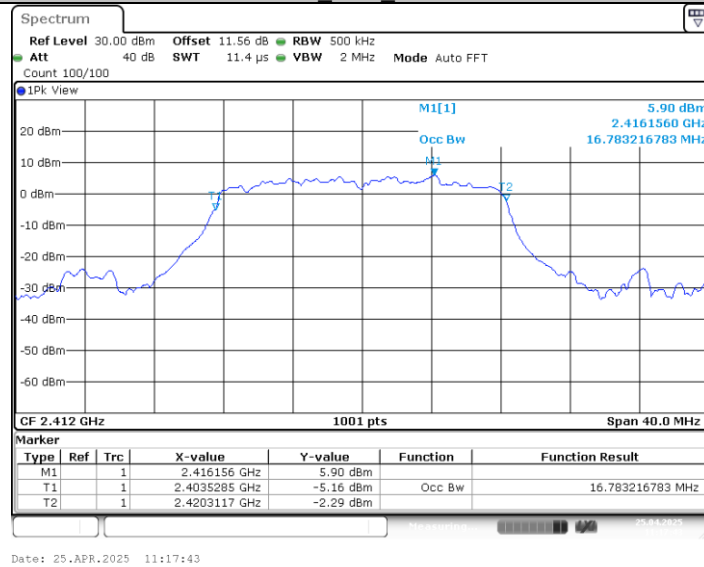
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

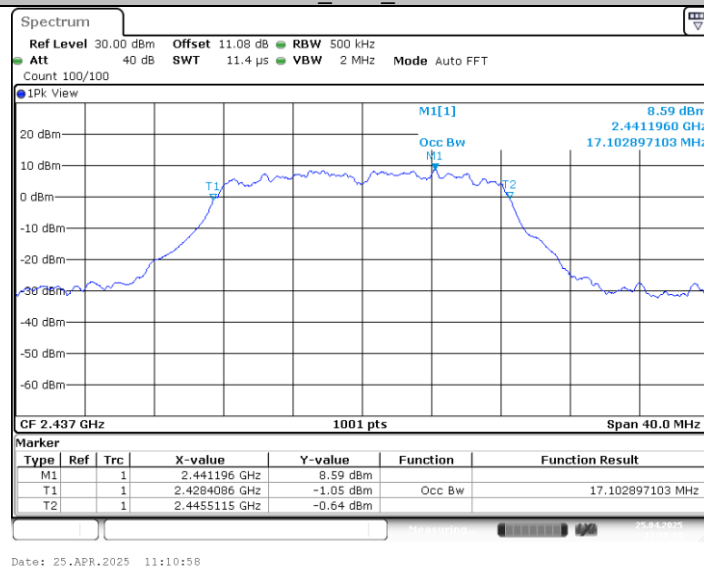
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11G_Ant2_2412



11G_Ant1_2437



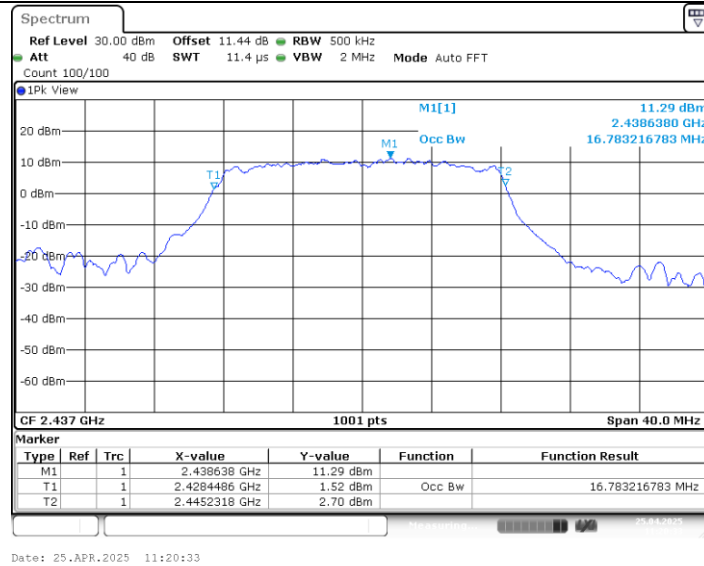
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CTC Laboratories, Inc.

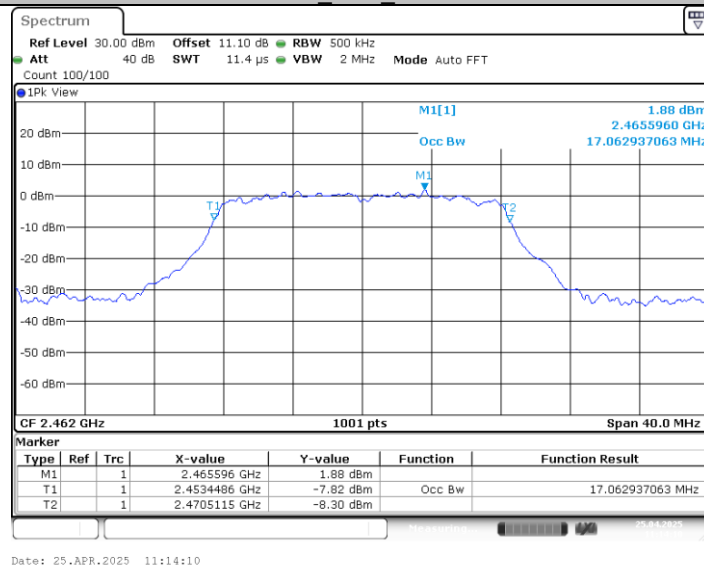
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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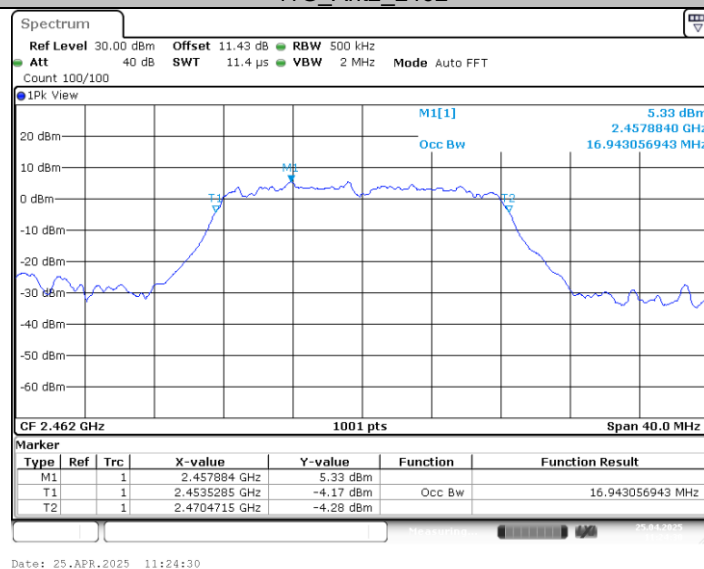
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11G_Ant1_2462



11G_Ant2_2462



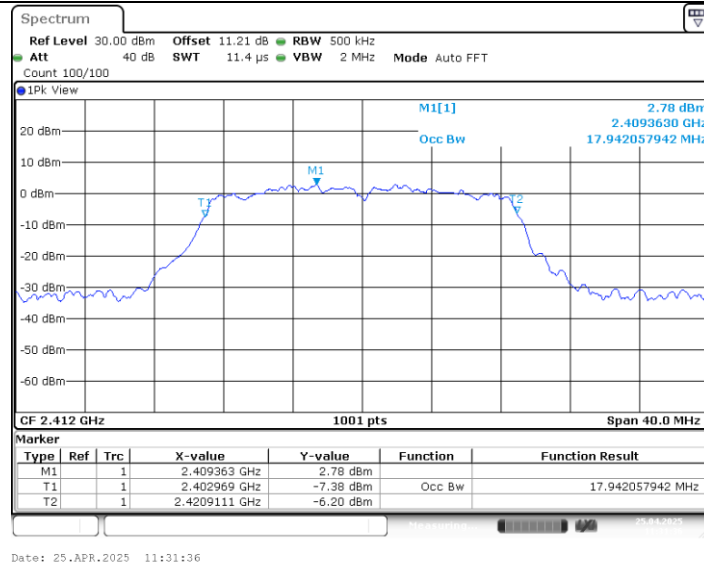
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CTC Laboratories, Inc.

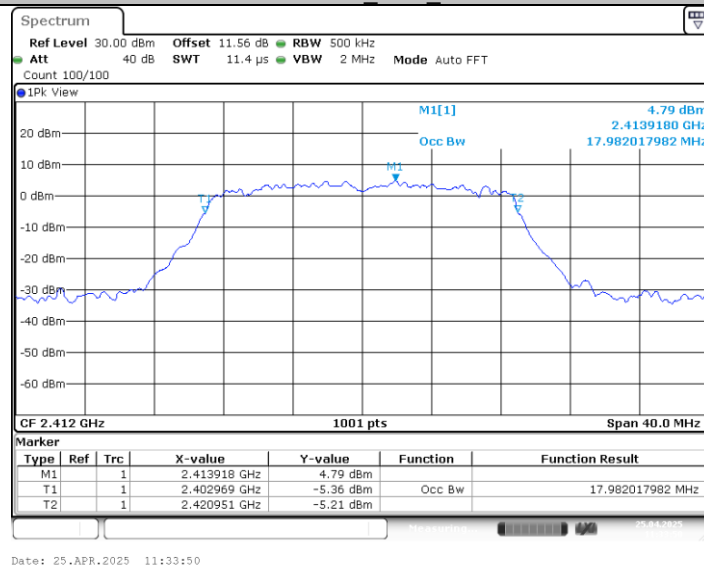
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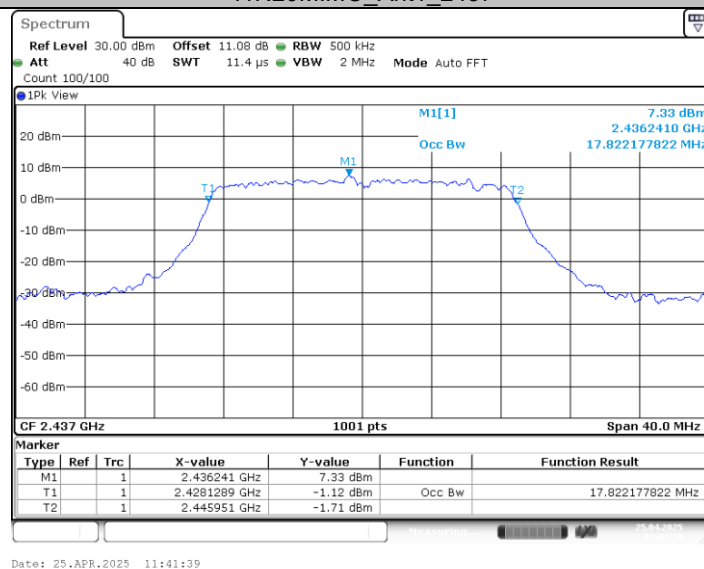
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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



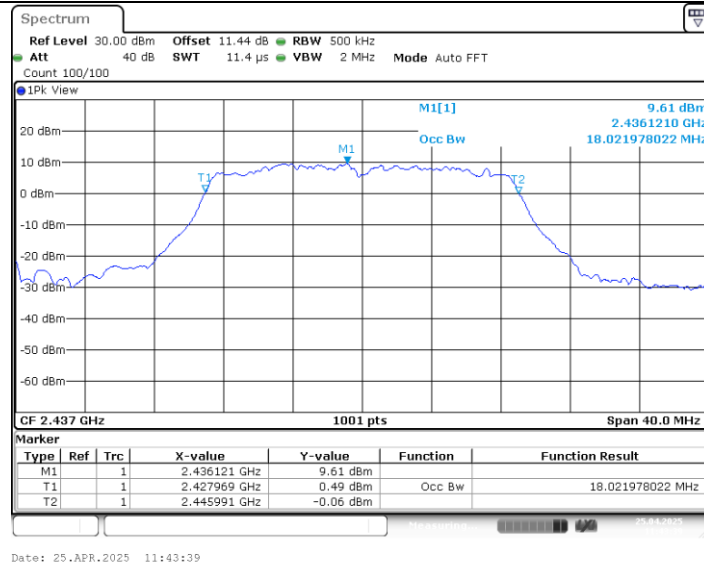
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CTC Laboratories, Inc.

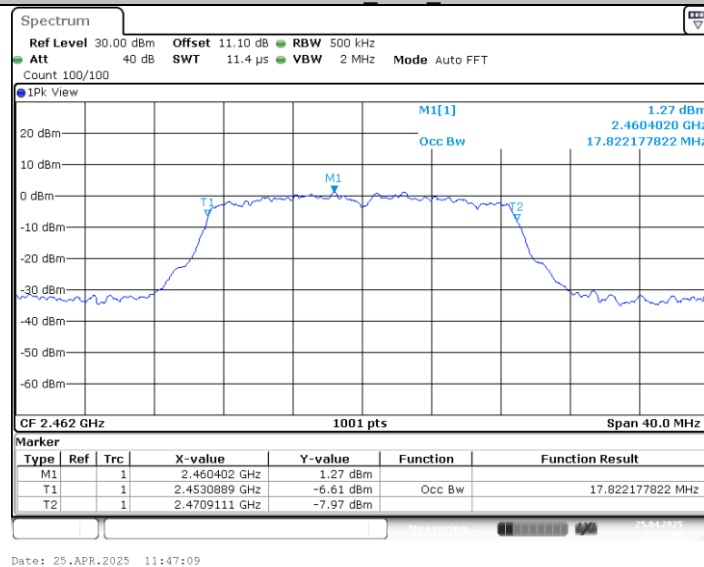
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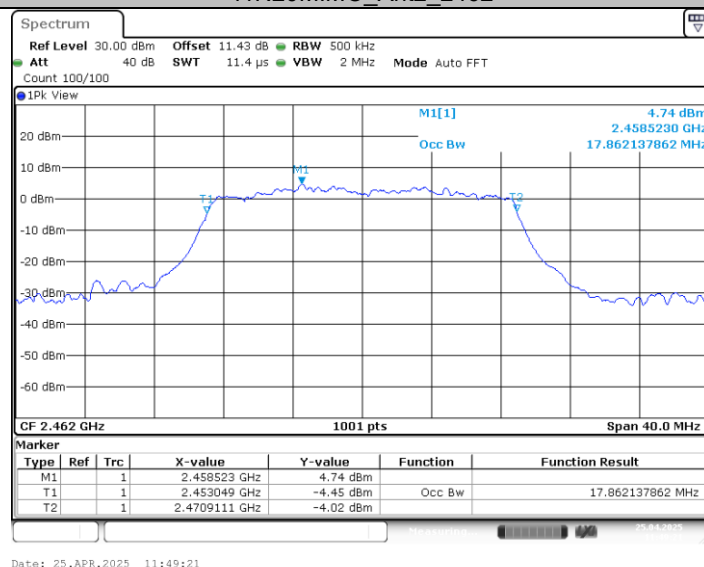
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



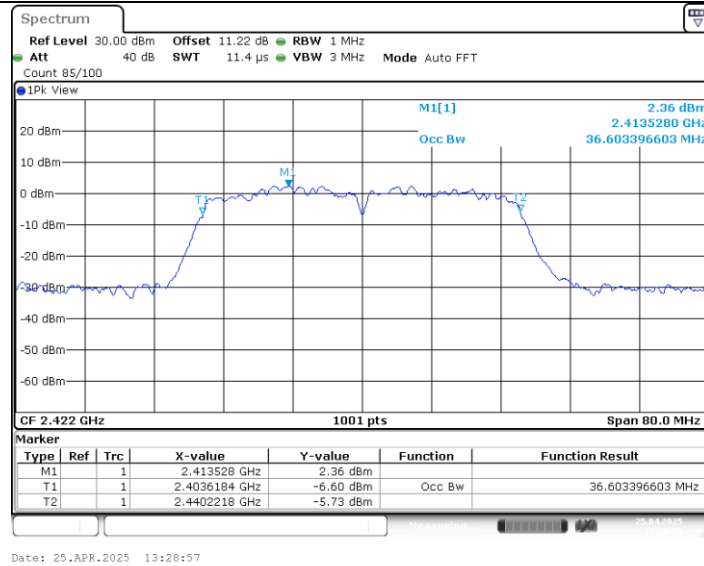
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CTC Laboratories, Inc.

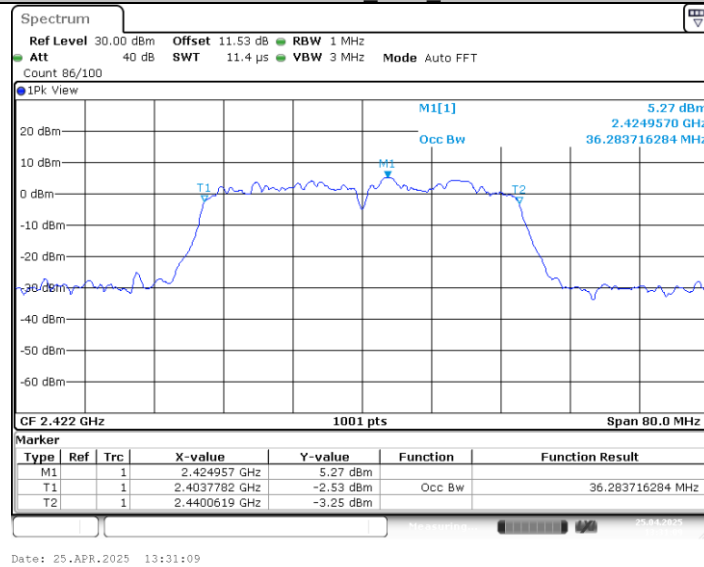
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

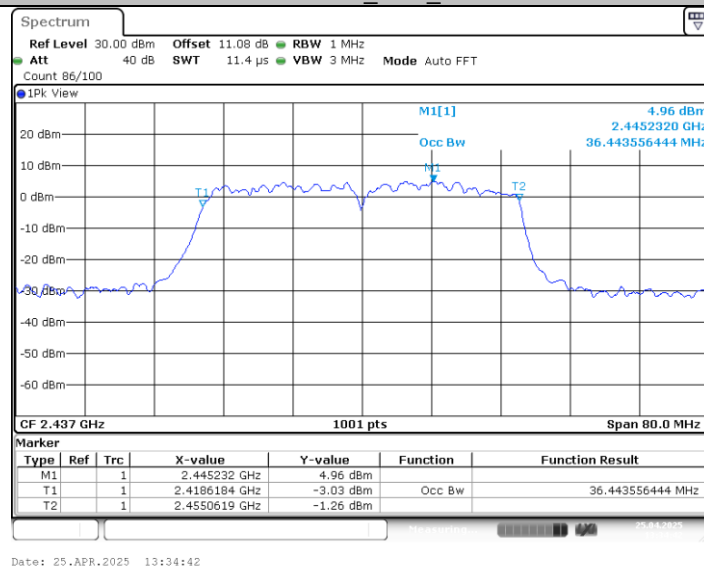
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



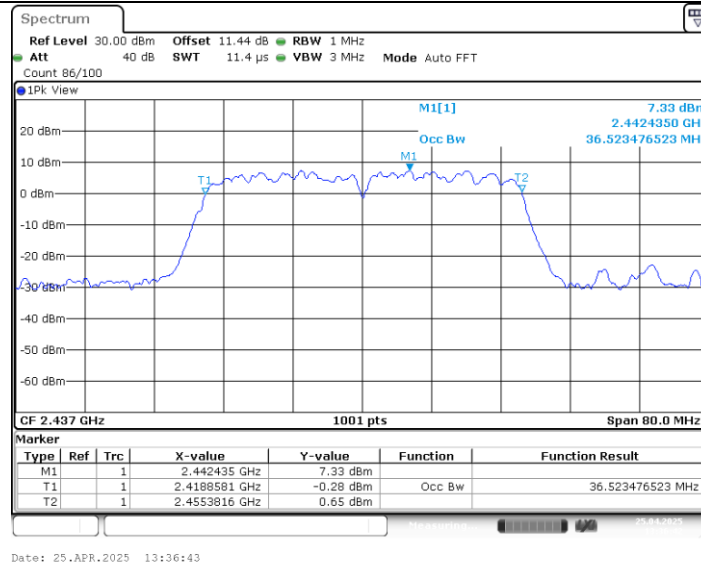
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CTC Laboratories, Inc.

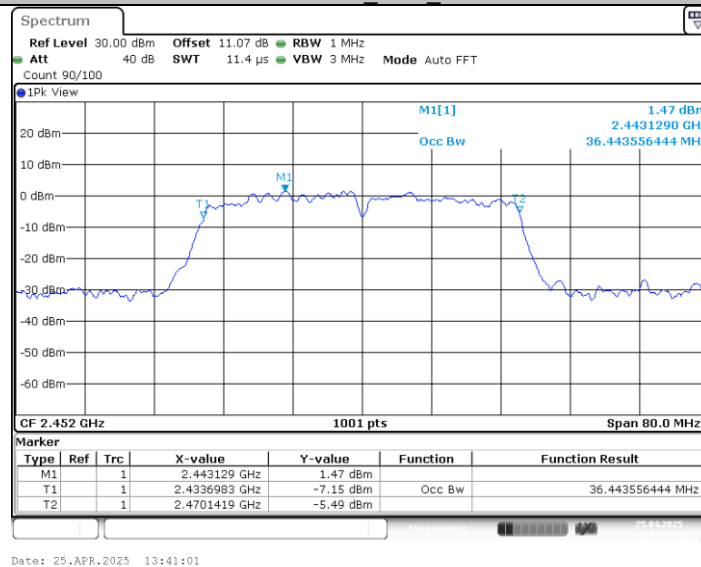
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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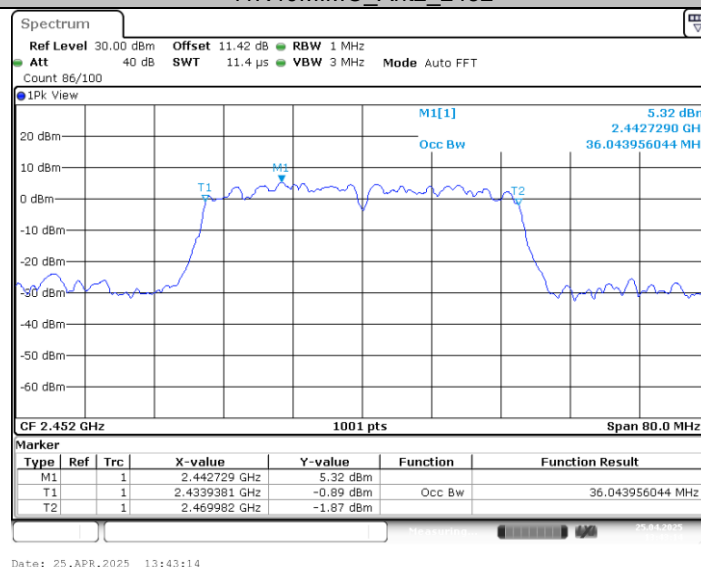
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



CTC Laboratories, Inc.

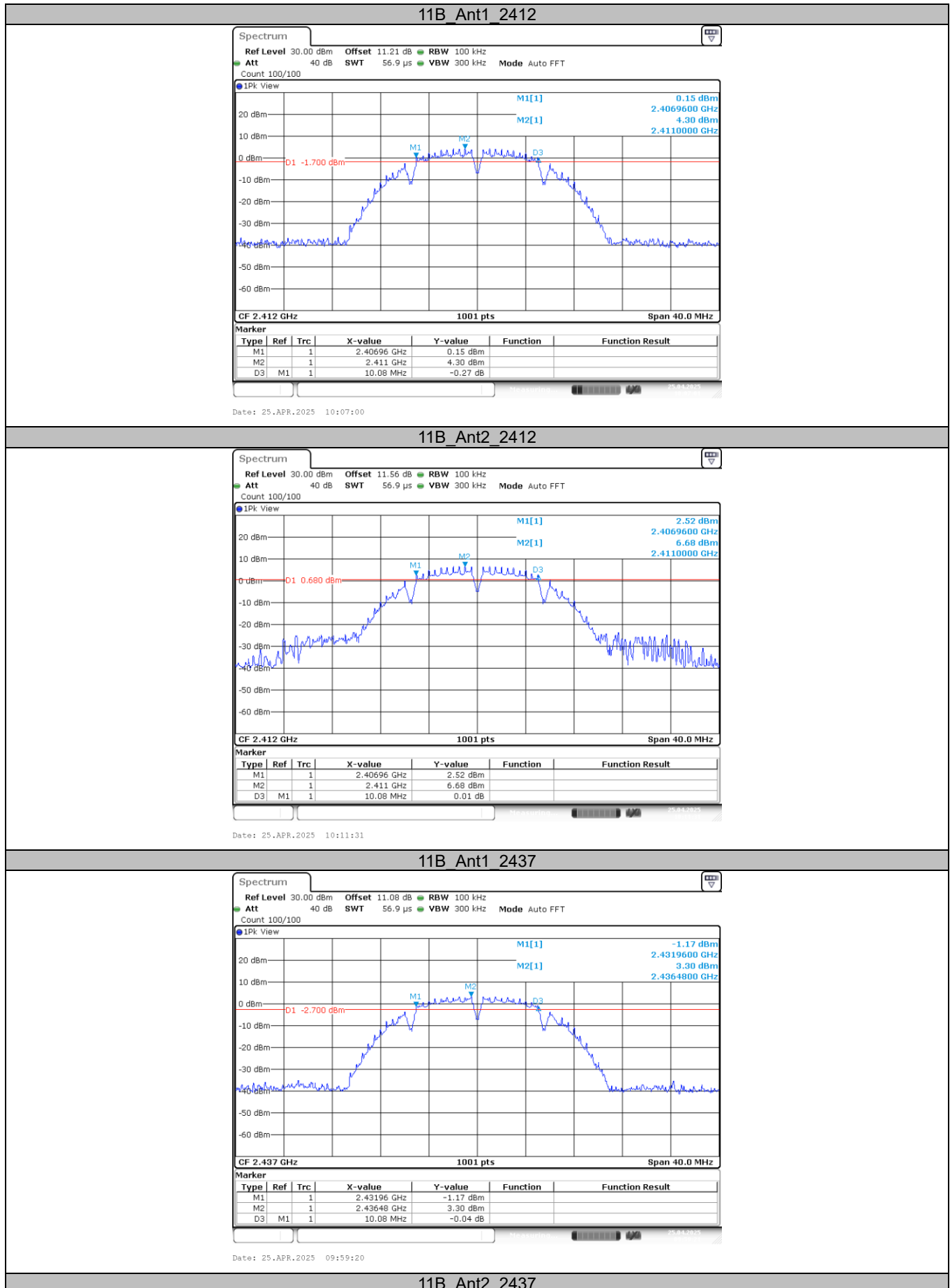
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

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DTS Bandwidth:

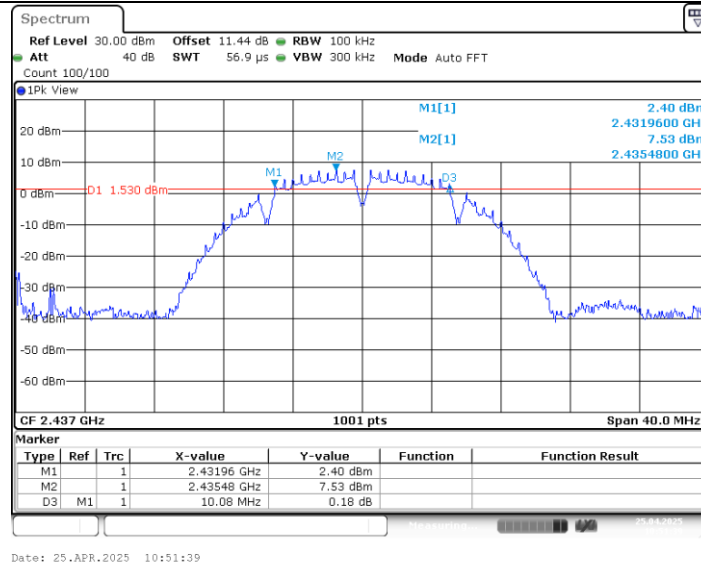


CTC Laboratories, Inc.

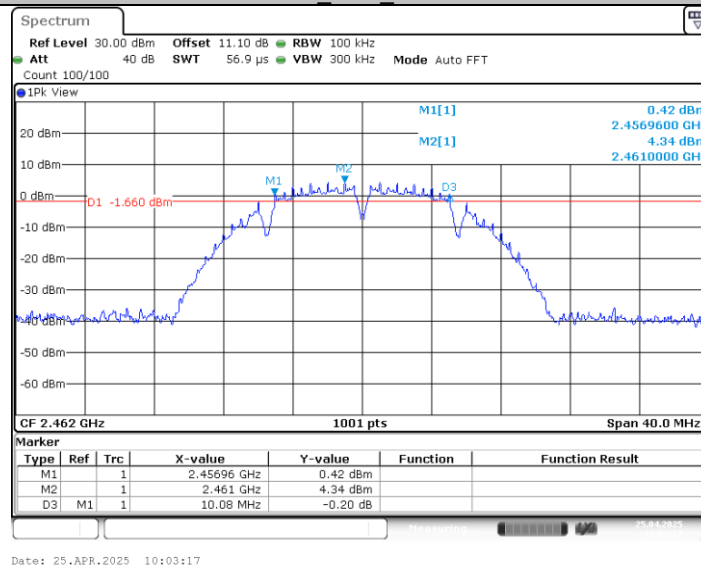
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

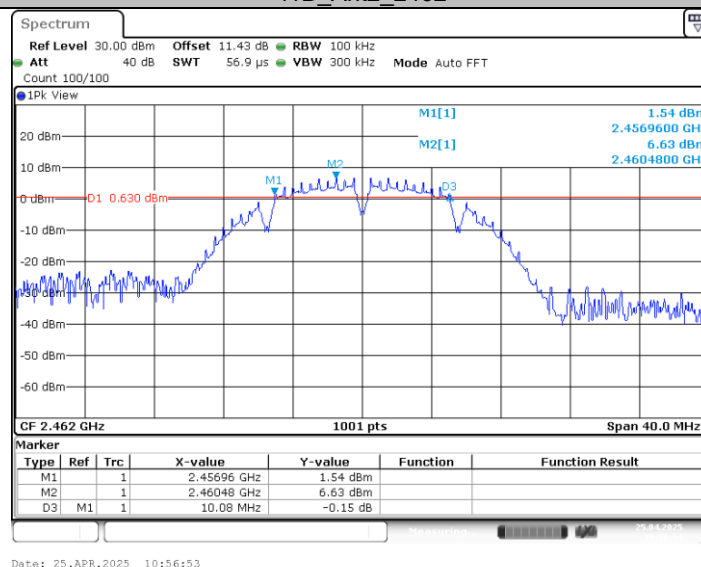
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11B_Ant1_2462



11B_Ant2_2462



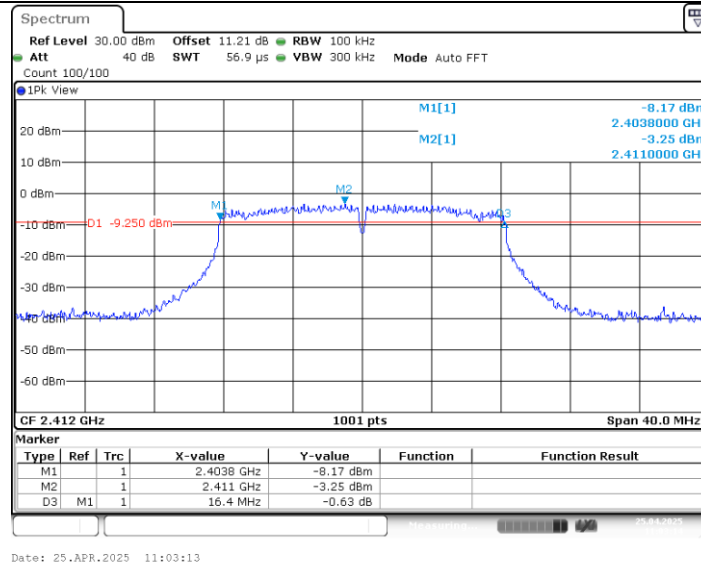
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CTC Laboratories, Inc.

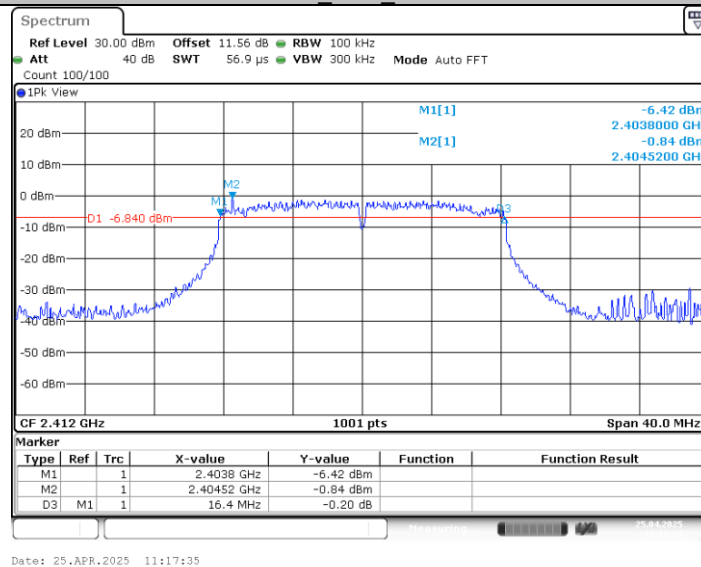
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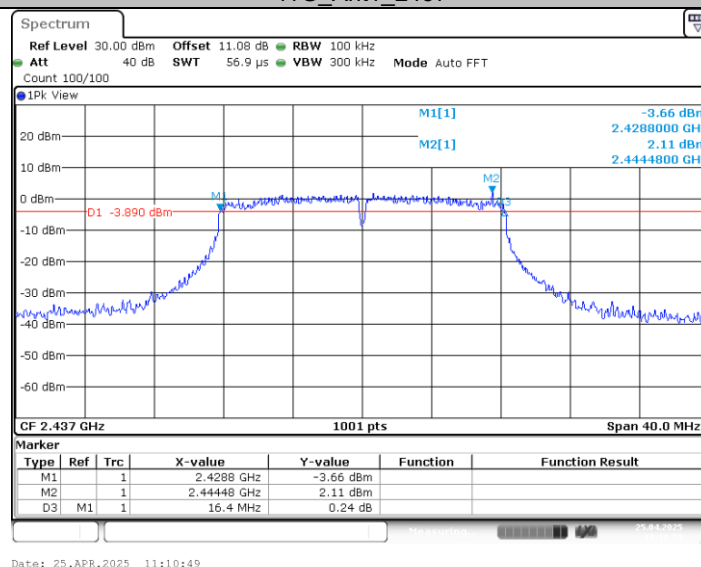
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11G_Ant2_2412



11G_Ant1_2437



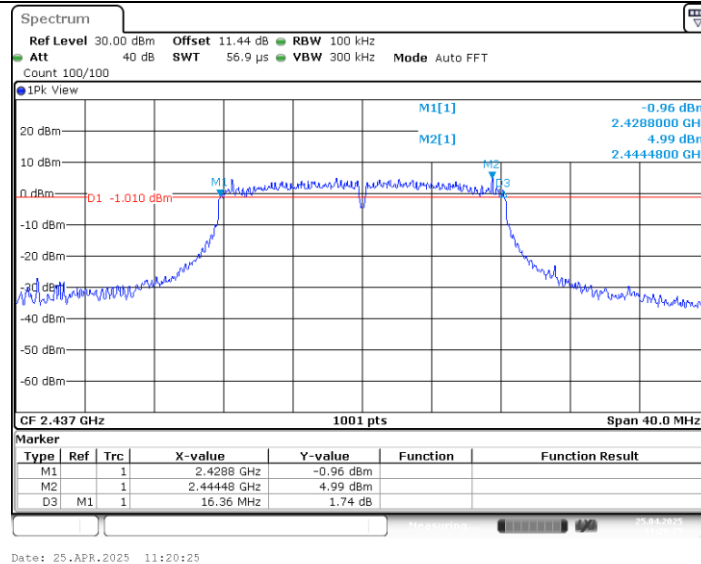
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CTC Laboratories, Inc.

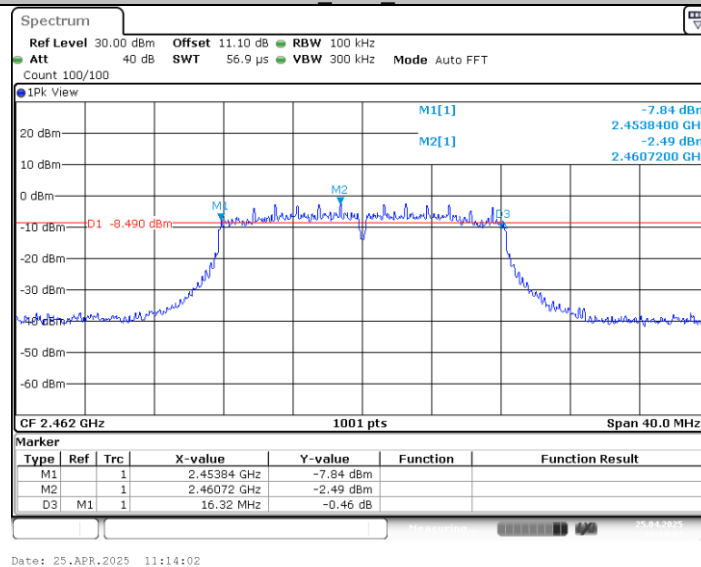
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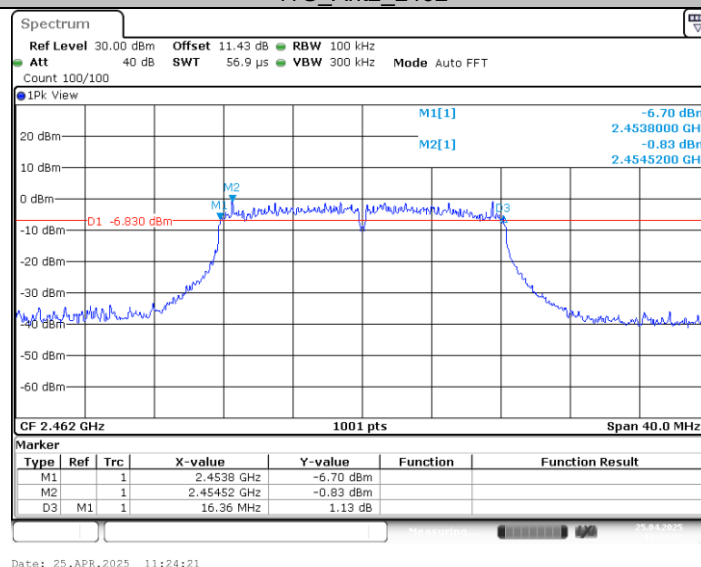
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11G_Ant1_2462



11G_Ant2_2462



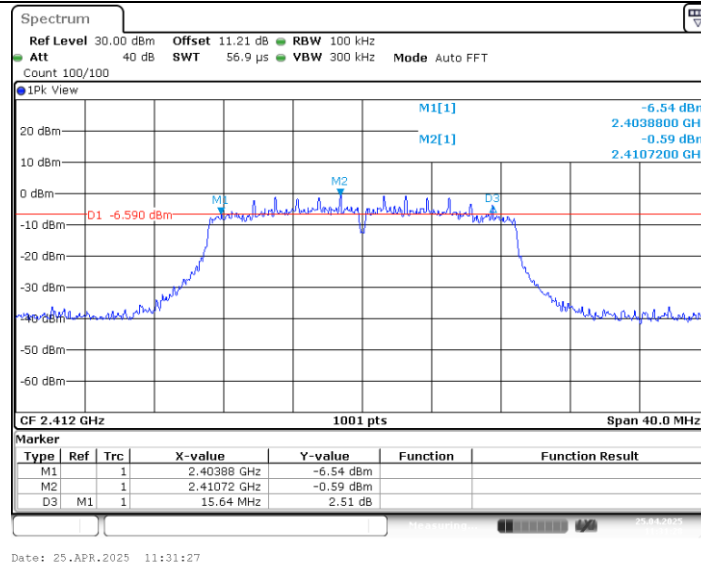
11N20MIMO_Ant1_2412

CTC Laboratories, Inc.

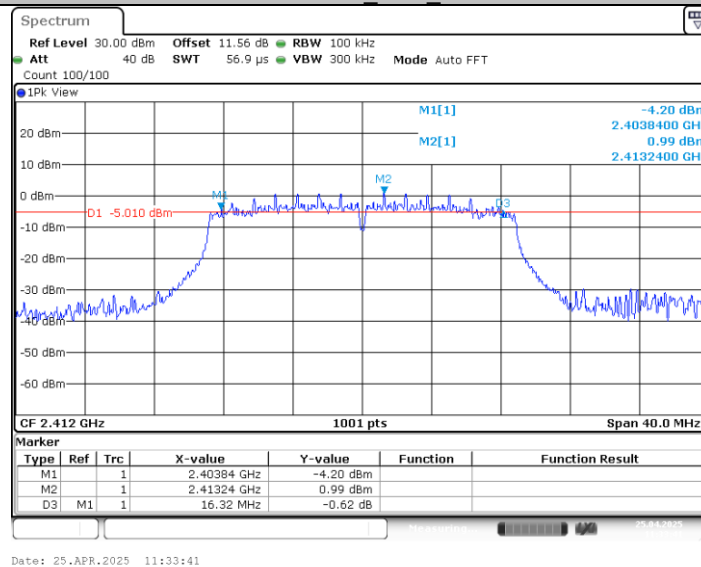
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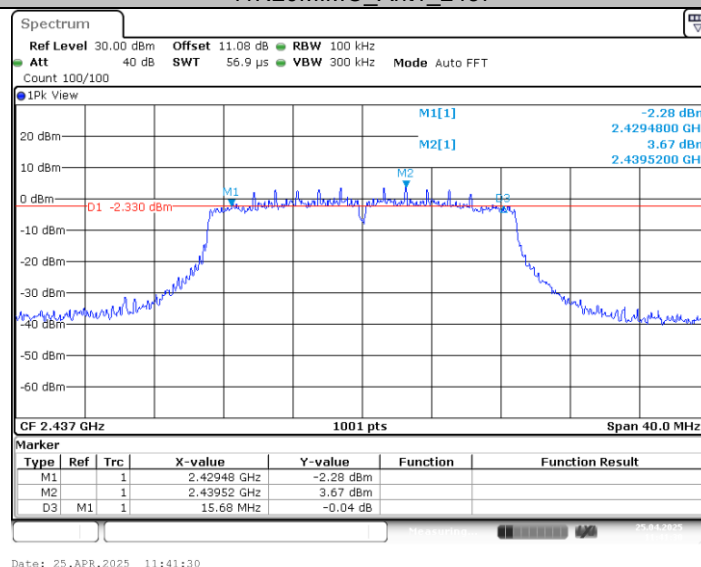
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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



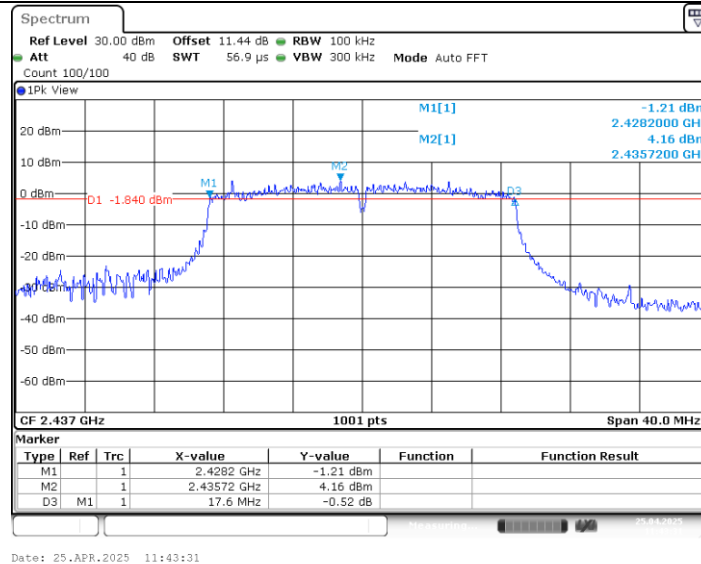
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CTC Laboratories, Inc.

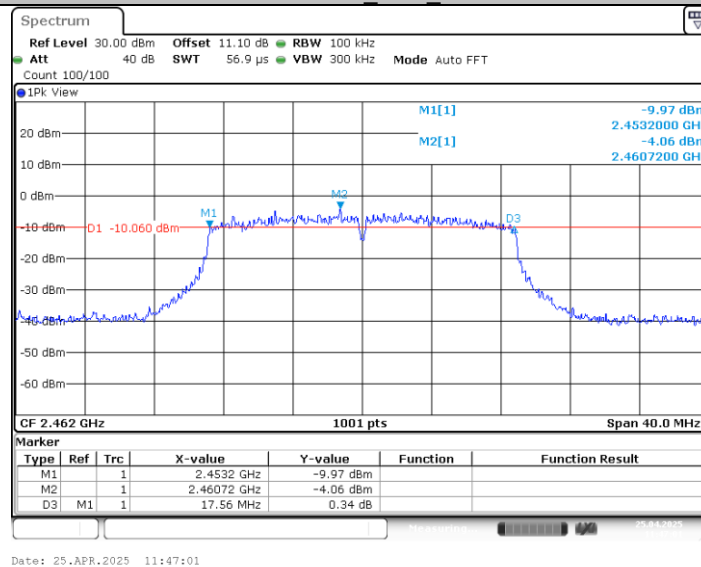
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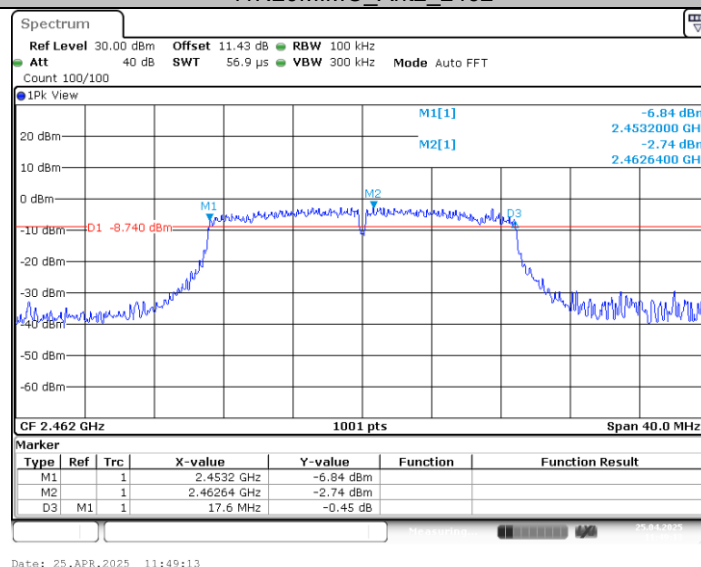
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



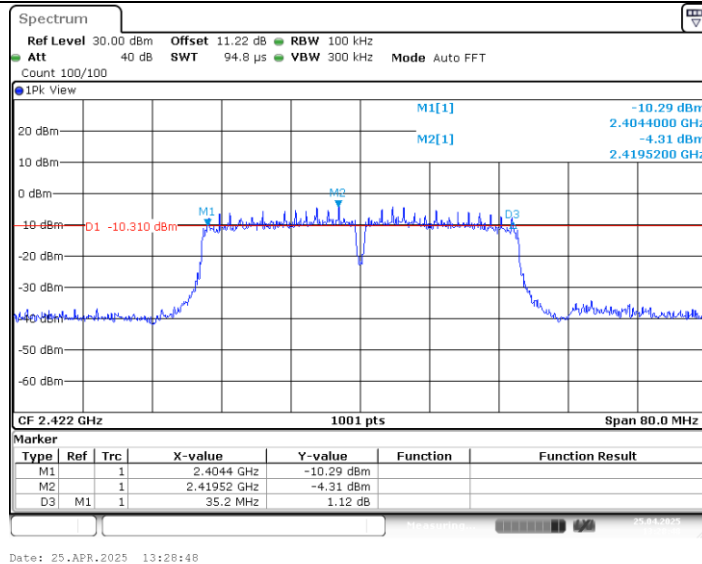
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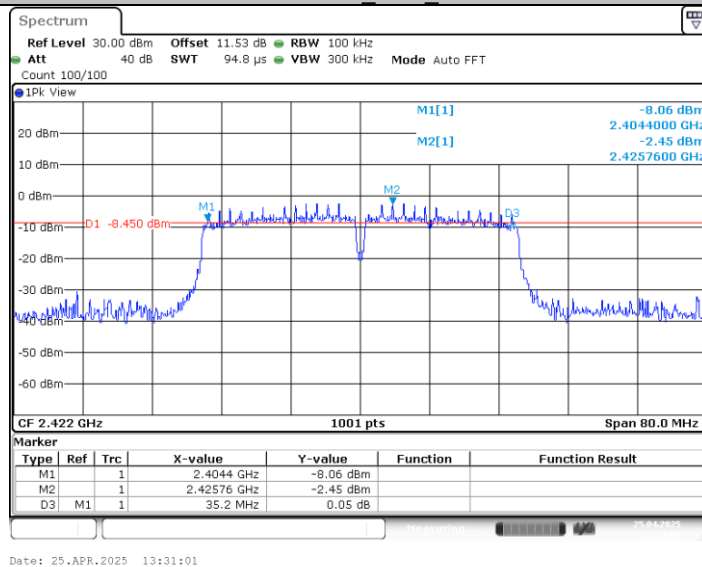
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TRF No: CTC-TR-057_A2

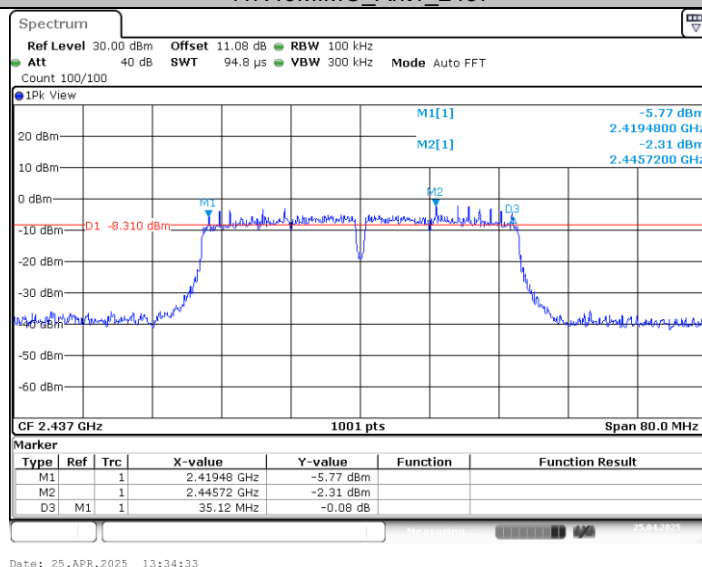
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



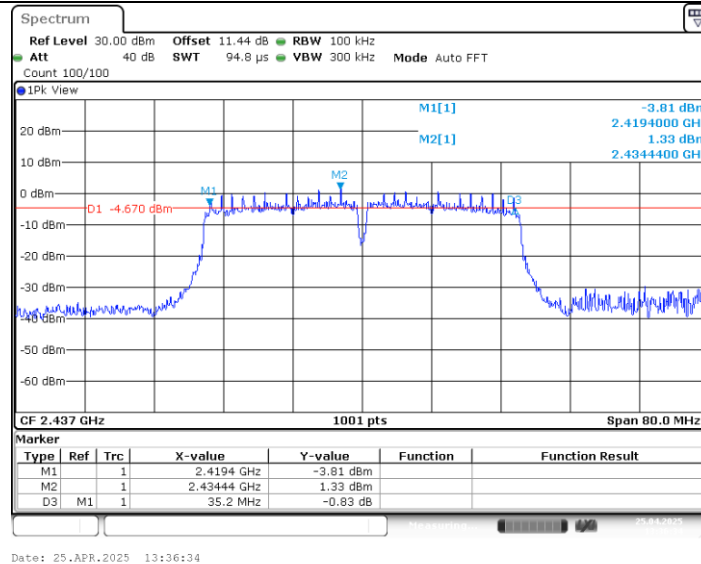
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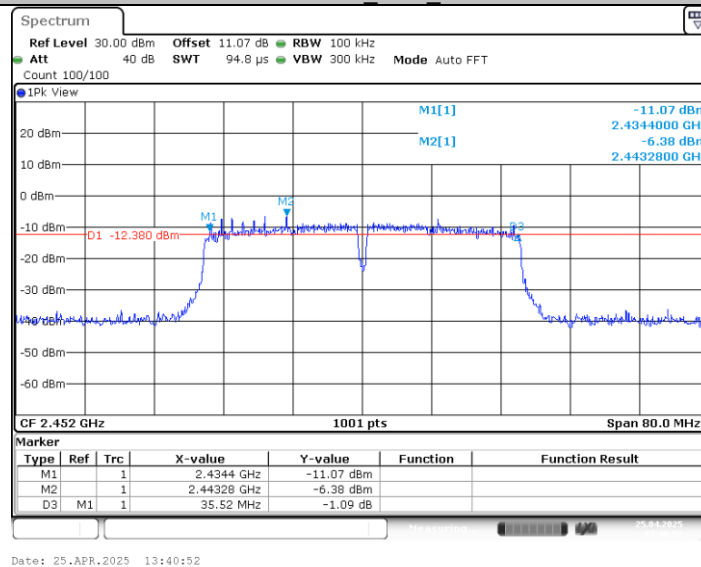
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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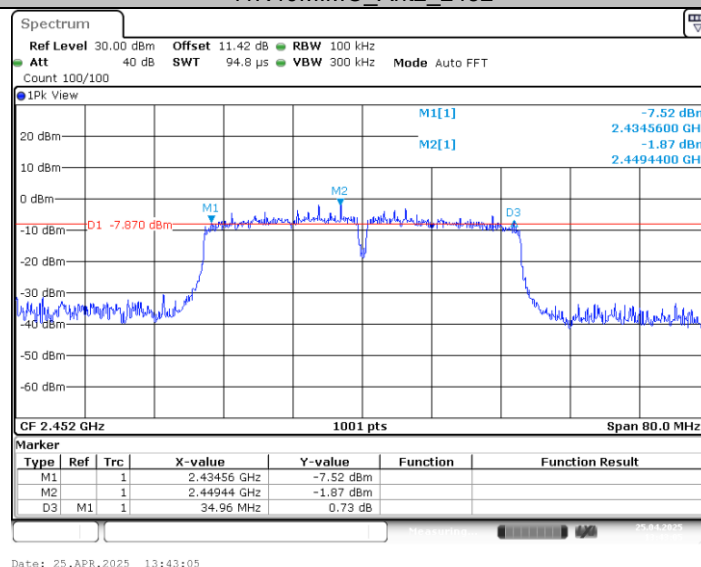
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



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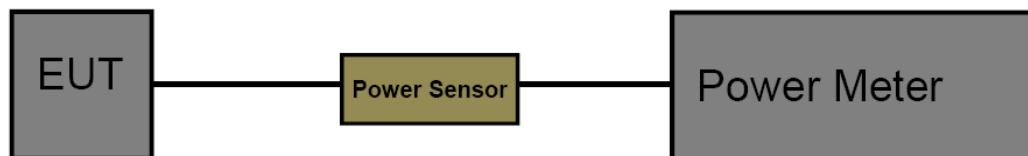
3.6. Peak Output Power

Limit

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

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (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 2.4.

**Test Result**

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]
11B	Ant1	2412	17.53	≤30.00
	Ant2	2412	19.65	≤30.00
	Ant1	2437	17.48	≤30.00
	Ant2	2437	20.2	≤30.00
	Ant1	2462	17.23	≤30.00
	Ant2	2462	19.33	≤30.00
11G	Ant1	2412	18.35	≤30.00
	Ant2	2412	20.34	≤30.00
	Ant1	2437	23.07	≤30.00
	Ant2	2437	25.88	≤30.00
	Ant1	2462	16.63	≤30.00
	Ant2	2462	19.82	≤30.00
11N20MIMO	Ant1	2412	17.56	≤29.31
	Ant2	2412	19.59	≤29.31
	total	2412	21.7	≤29.31
	Ant1	2437	21.82	≤29.31
	Ant2	2437	24.79	≤29.31
	total	2437	26.56	≤29.31
	Ant1	2462	15.96	≤29.31
	Ant2	2462	19.2	≤29.31
	total	2462	20.89	≤29.31
11N40MIMO	Ant1	2422	18	≤29.31
	Ant2	2422	19.69	≤29.31
	total	2422	21.94	≤29.31
	Ant1	2437	20.17	≤29.31
	Ant2	2437	22.95	≤29.31
	total	2437	24.79	≤29.31
	Ant1	2452	16.55	≤29.31
	Ant2	2452	19.92	≤29.31
	total	2452	21.56	≤29.31



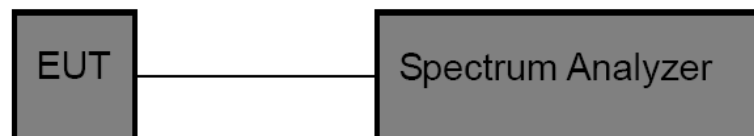
3.7. Power Spectral Density

Limit

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

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (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

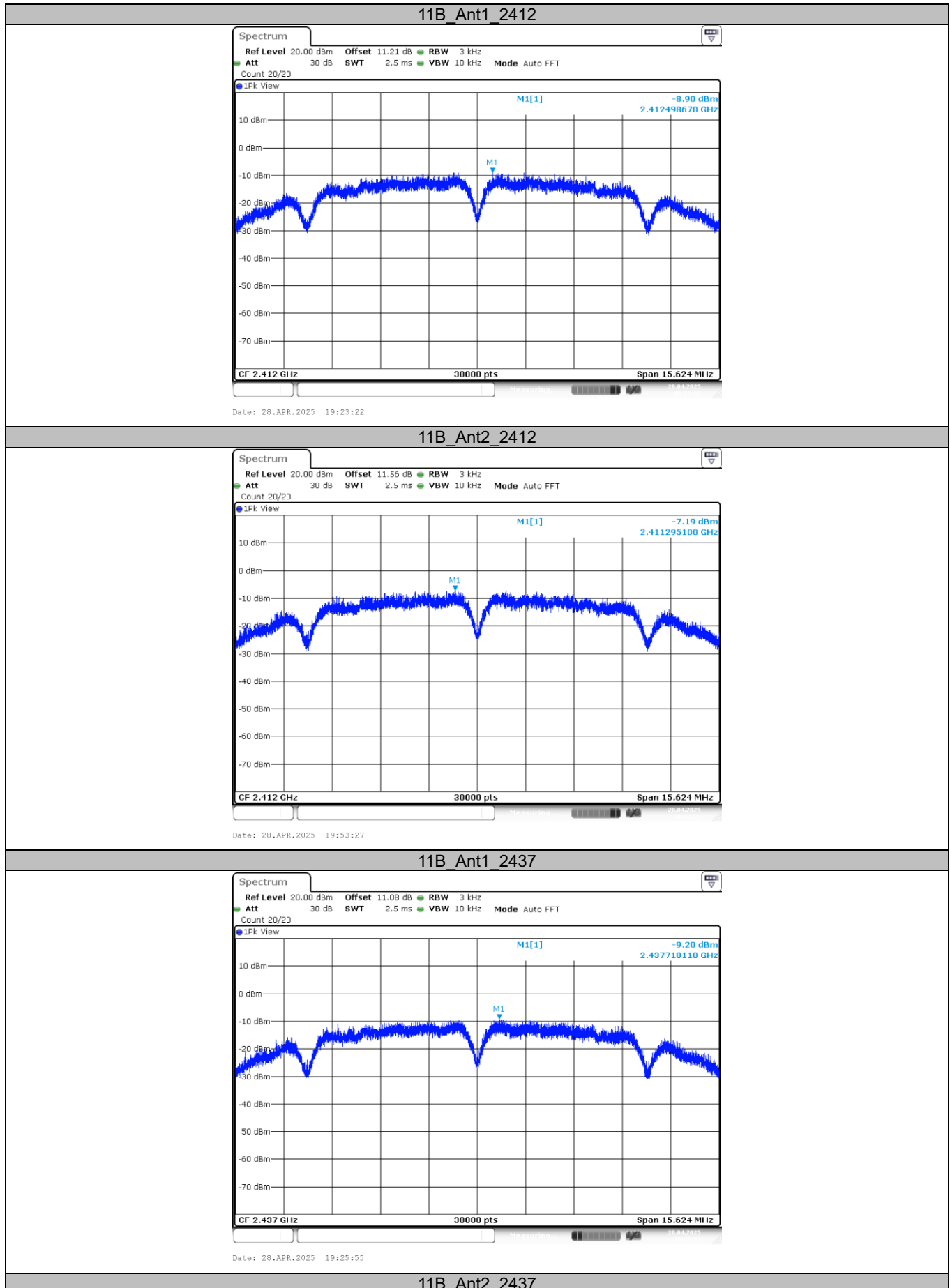
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.90	≤8.00	PASS
	Ant2	2412	-7.19	≤8.00	PASS
	Ant1	2437	-9.20	≤8.00	PASS
	Ant2	2437	-5.26	≤8.00	PASS
	Ant1	2462	-9.09	≤8.00	PASS
	Ant2	2462	-6.97	≤8.00	PASS
11G	Ant1	2412	-14.51	≤8.00	PASS
	Ant2	2412	-11.57	≤8.00	PASS
	Ant1	2437	-8.61	≤8.00	PASS
	Ant2	2437	-6.25	≤8.00	PASS
	Ant1	2462	-15.56	≤8.00	PASS
	Ant2	2462	-12.79	≤8.00	PASS
11N20MIMO	Ant1	2412	-14.32	≤8.00	PASS
	Ant2	2412	-12.36	≤8.00	PASS
	total	2412	-10.22	≤8.00	PASS
	Ant1	2437	-11.21	≤8.00	PASS
	Ant2	2437	-8.82	≤8.00	PASS
	total	2437	-6.84	≤8.00	PASS
	Ant1	2462	-16.26	≤8.00	PASS
	Ant2	2462	-12.61	≤8.00	PASS
	total	2462	-11.05	≤8.00	PASS
11N40MIMO	Ant1	2422	-18.27	≤8.00	PASS
	Ant2	2422	-17.32	≤8.00	PASS
	total	2422	-14.76	≤8.00	PASS
	Ant1	2437	-15.55	≤8.00	PASS
	Ant2	2437	-12.10	≤8.00	PASS
	total	2437	-10.48	≤8.00	PASS
	Ant1	2452	-18.83	≤8.00	PASS
	Ant2	2452	-16.14	≤8.00	PASS
	total	2452	-14.27	≤8.00	PASS



Test plot as follows:

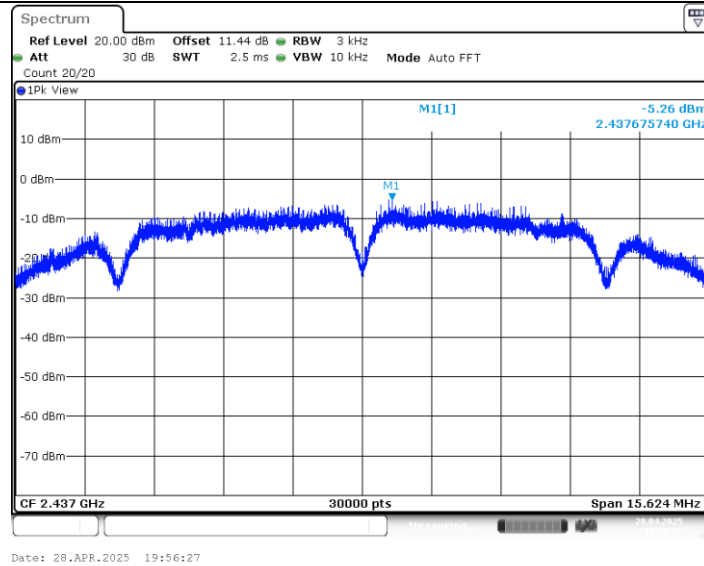


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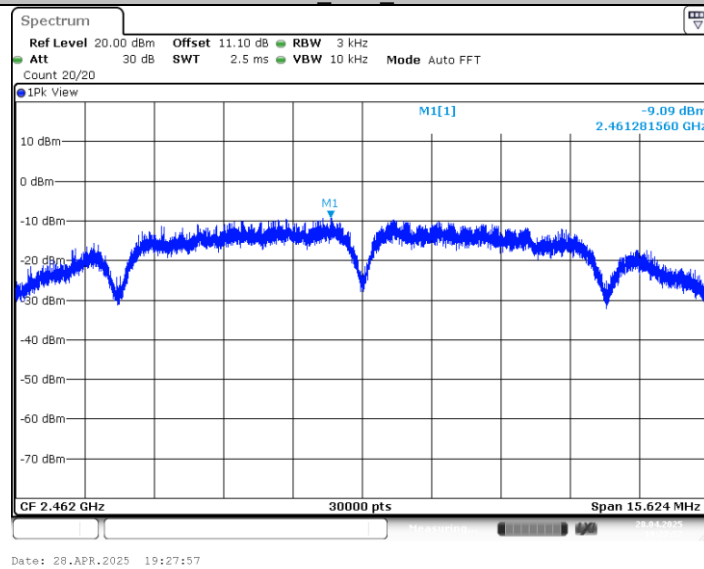
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

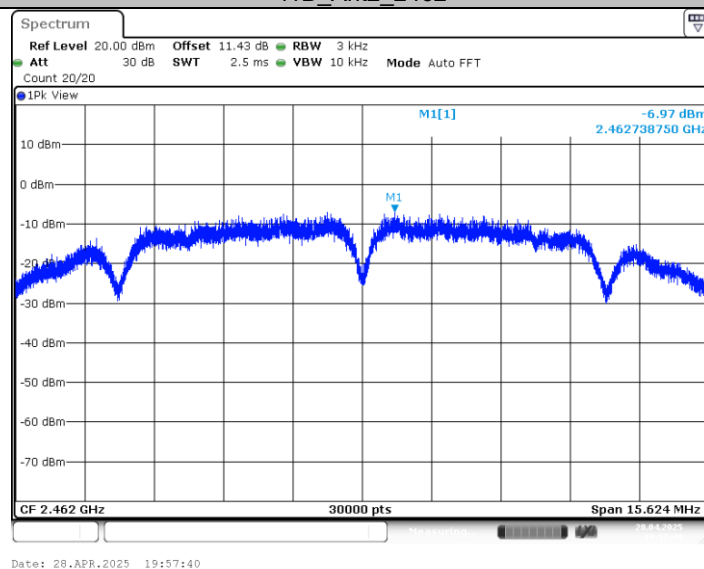
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11B_Ant1_2462



11B_Ant2_2462



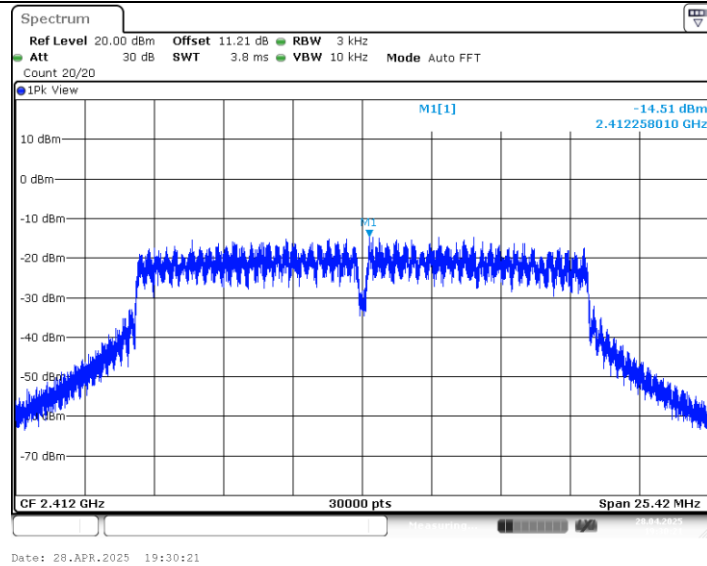
11G_Ant1_2412

CTC Laboratories, Inc.

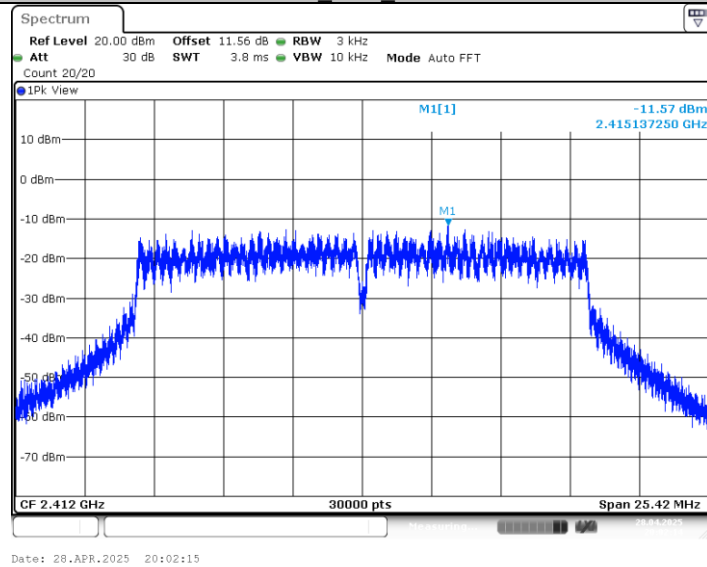
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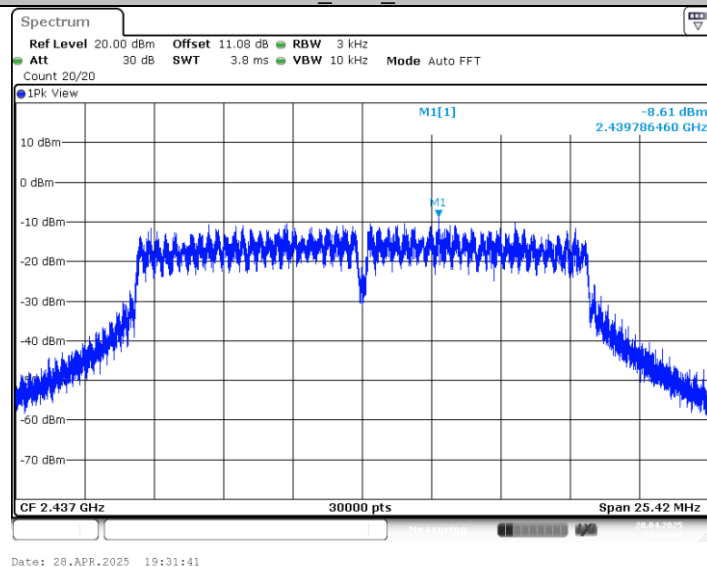
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11G_Ant2_2412



11G_Ant1_2437



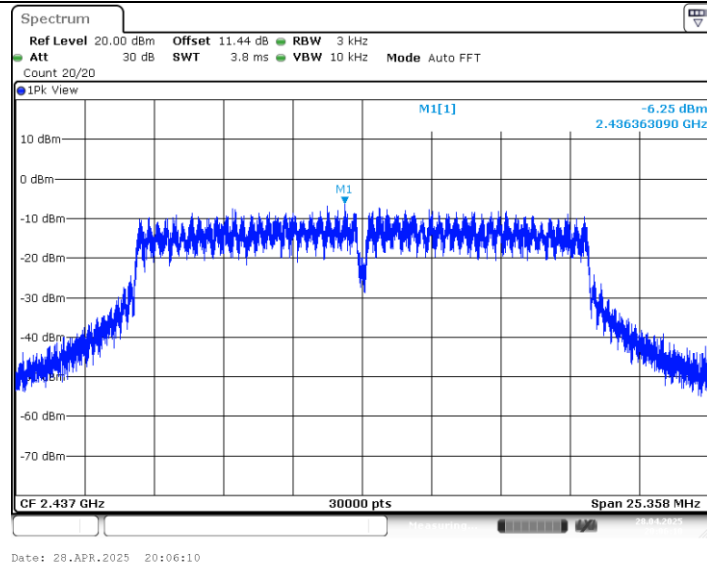
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CTC Laboratories, Inc.

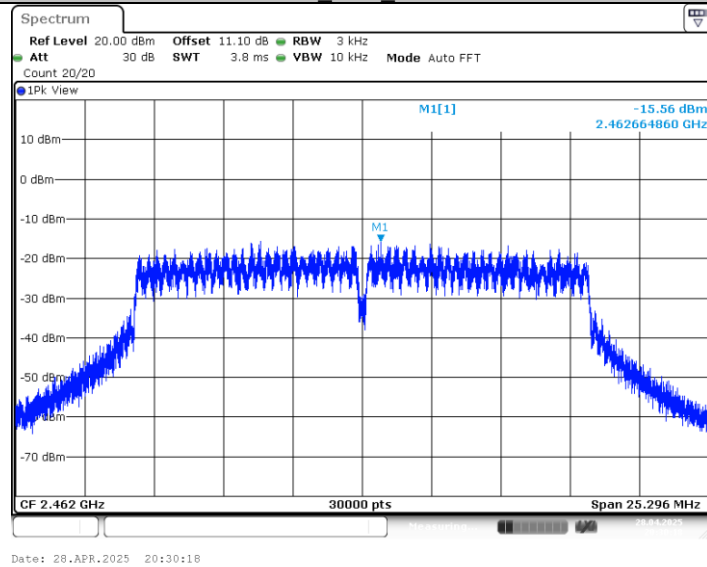
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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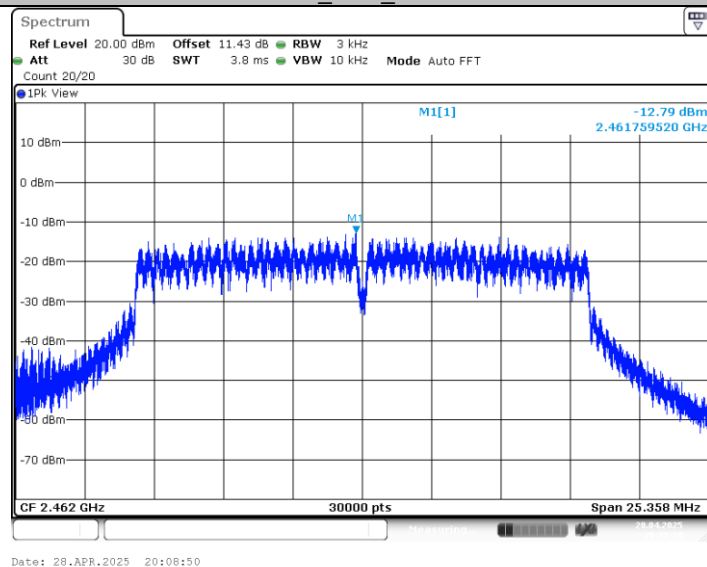
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Society : yz.cncaq.com



11G_Ant1_2462



11G_Ant2_2462



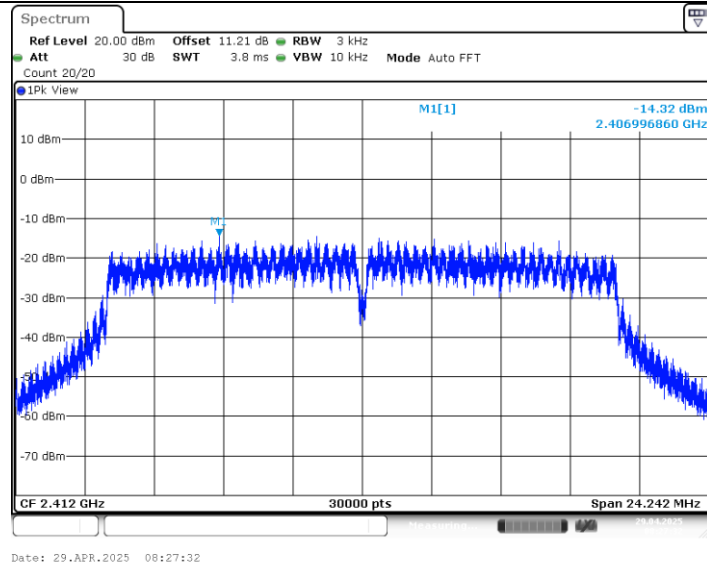
11N20MIMO_Ant1_2412

CTC Laboratories, Inc.

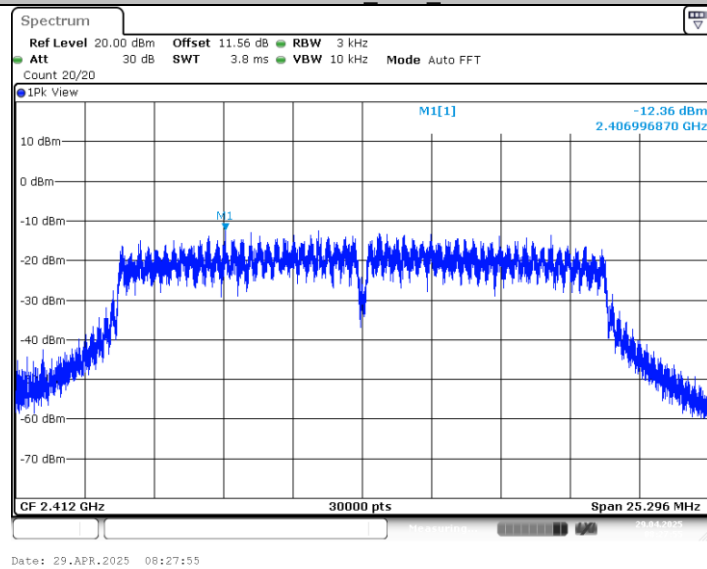
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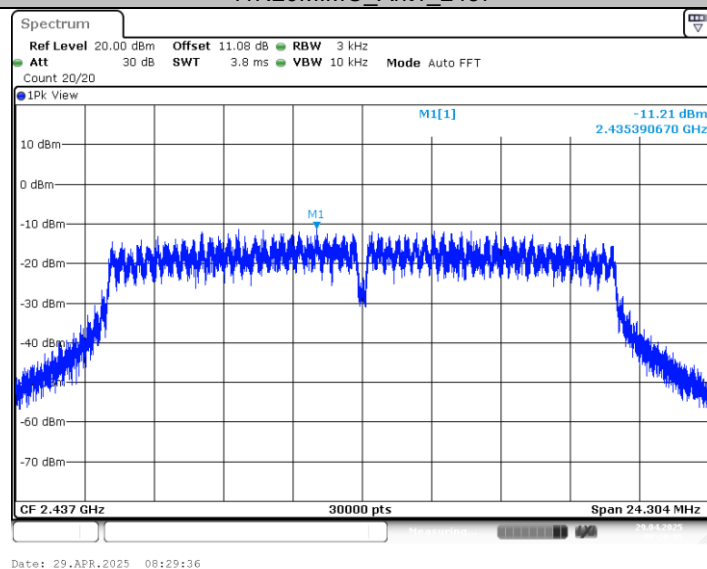
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Society : yz.cncaq.com



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



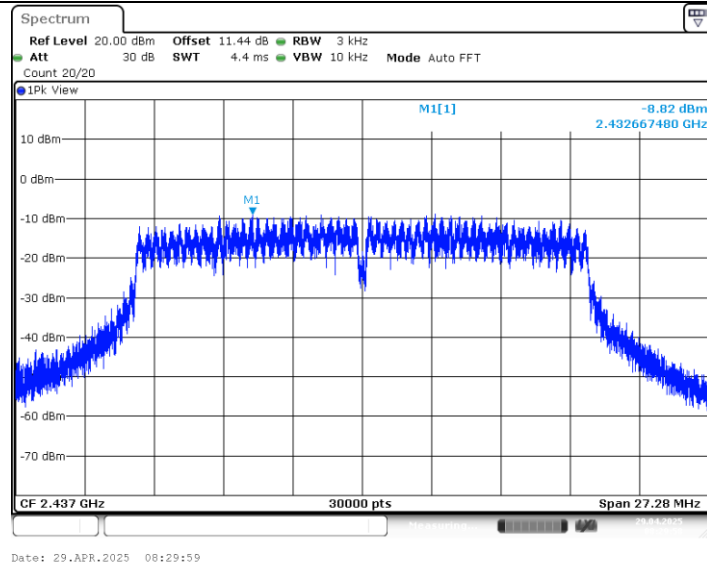
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CTC Laboratories, Inc.

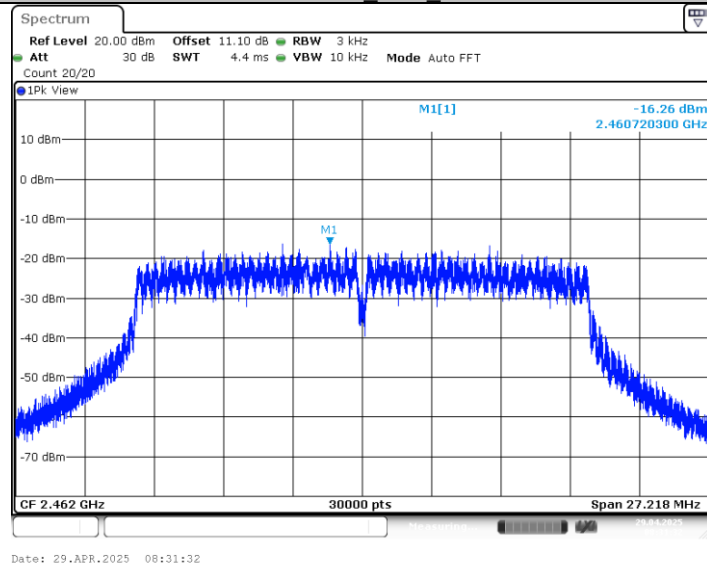
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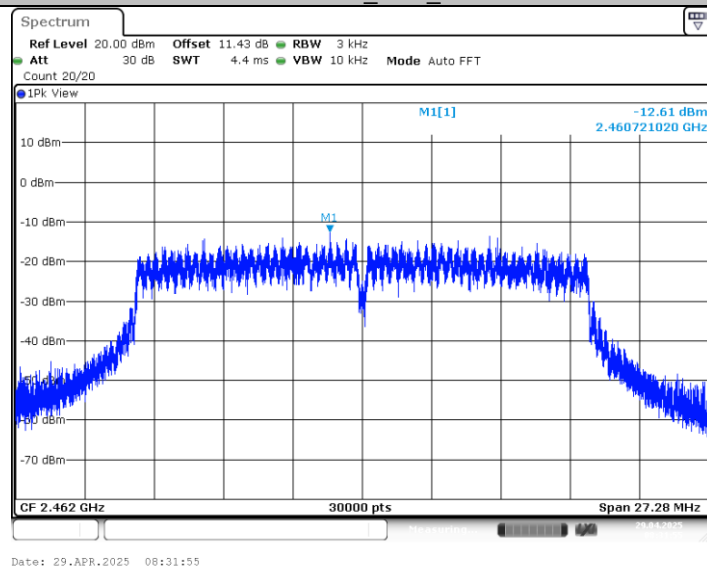
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Society : yz.cncaq.com



11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422

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