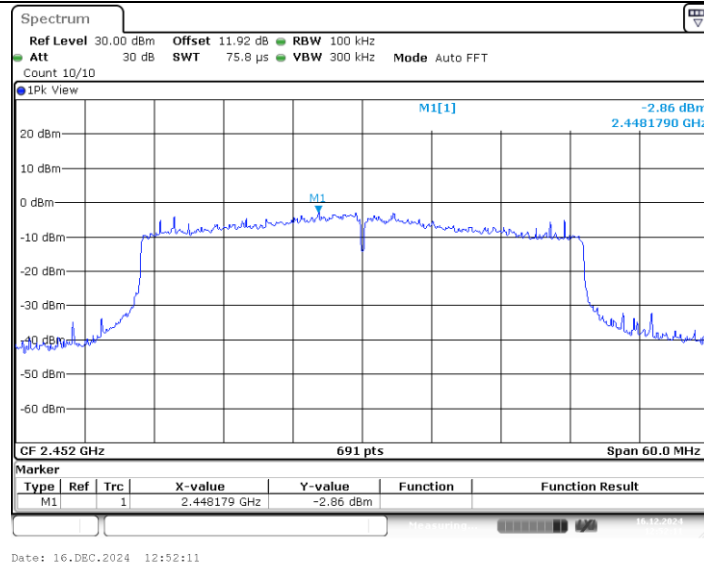
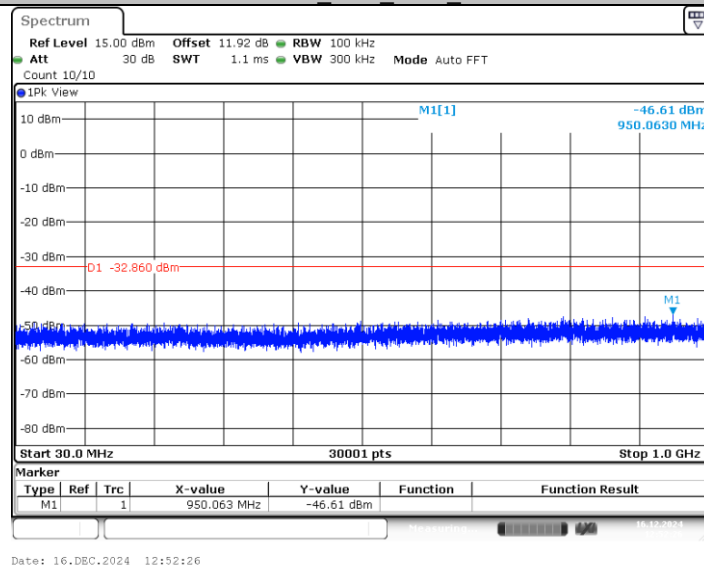
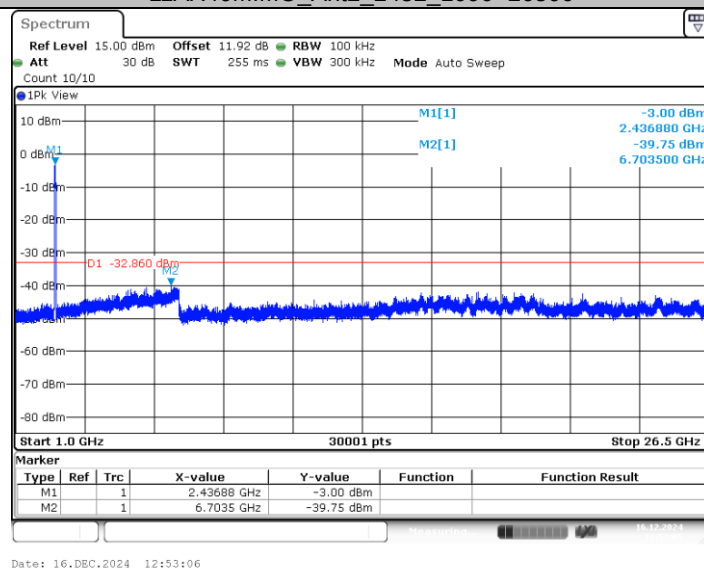




11AX40MIMO_Ant2_2452_30~1000



11AX40MIMO_Ant2_2452_1000~26500



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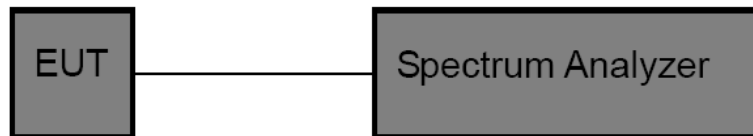
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

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

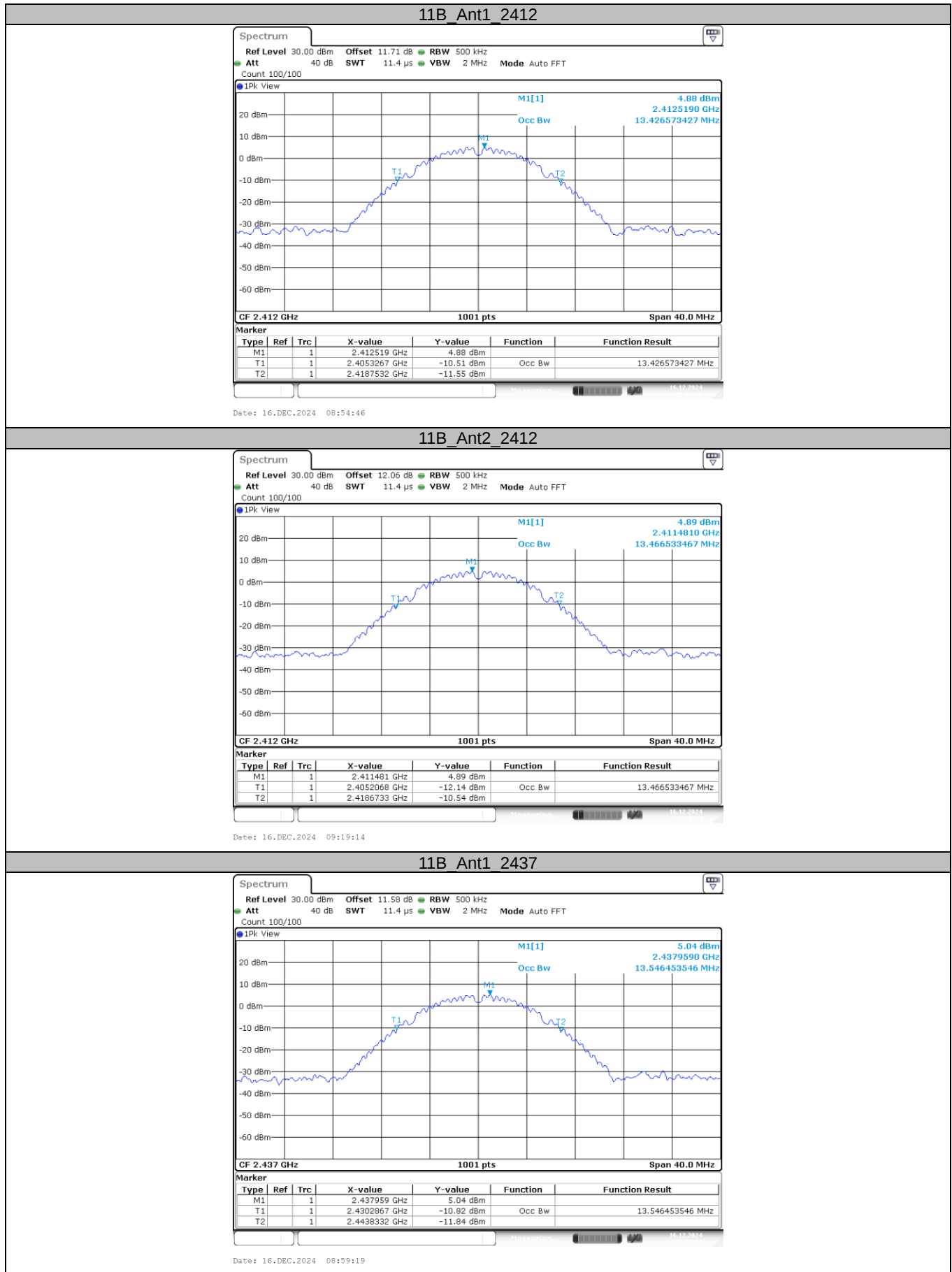
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.427	7.56	0.5	PASS
	Ant2	2412	13.467	8.08	0.5	PASS
	Ant1	2437	13.546	8.08	0.5	PASS
	Ant2	2437	13.267	8.08	0.5	PASS
	Ant1	2462	13.546	8.08	0.5	PASS
	Ant2	2462	13.307	8.08	0.5	PASS
11G	Ant1	2412	16.503	15.12	0.5	PASS
	Ant2	2412	16.384	12.64	0.5	PASS
	Ant1	2437	16.384	16.04	0.5	PASS
	Ant2	2437	16.424	14.12	0.5	PASS
	Ant1	2462	16.424	16.32	0.5	PASS
	Ant2	2462	16.503	16.32	0.5	PASS
11N20MIMO	Ant1	2412	17.702	17.60	0.5	PASS
	Ant2	2412	17.662	13.40	0.5	PASS
	Ant1	2437	17.742	17.52	0.5	PASS
	Ant2	2437	17.742	17.52	0.5	PASS
	Ant1	2462	17.702	17.20	0.5	PASS
	Ant2	2462	17.782	17.56	0.5	PASS
11N40MIMO	Ant1	2422	36.044	35.52	0.5	PASS
	Ant2	2422	36.124	36.32	0.5	PASS
	Ant1	2437	36.124	36.32	0.5	PASS
	Ant2	2437	36.044	35.68	0.5	PASS
	Ant1	2452	36.204	35.68	0.5	PASS
	Ant2	2452	36.044	35.84	0.5	PASS
11AX20MIMO	Ant1	2412	18.941	18.48	0.5	PASS
	Ant2	2412	18.901	18.76	0.5	PASS
	Ant1	2437	19.101	18.00	0.5	PASS
	Ant2	2437	18.901	18.44	0.5	PASS
	Ant1	2462	18.941	18.48	0.5	PASS
	Ant2	2462	19.021	18.28	0.5	PASS
11AX40MIMO	Ant1	2422	37.802	33.52	0.5	PASS
	Ant2	2422	37.802	37.68	0.5	PASS
	Ant1	2437	37.802	36.40	0.5	PASS
	Ant2	2437	37.962	35.20	0.5	PASS
	Ant1	2452	37.243	23.92	0.5	PASS
	Ant2	2452	37.722	36.64	0.5	PASS



99% Bandwidth:



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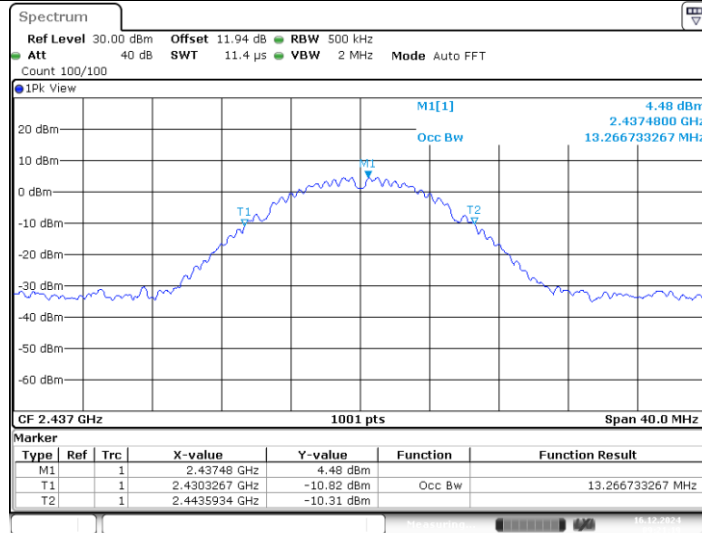
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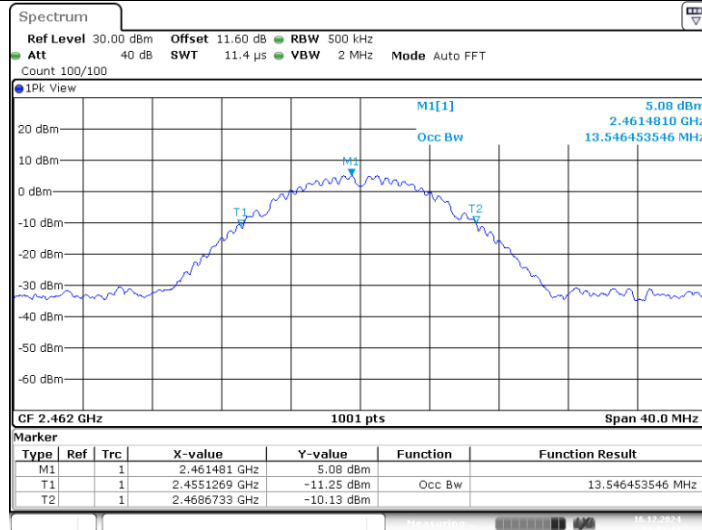


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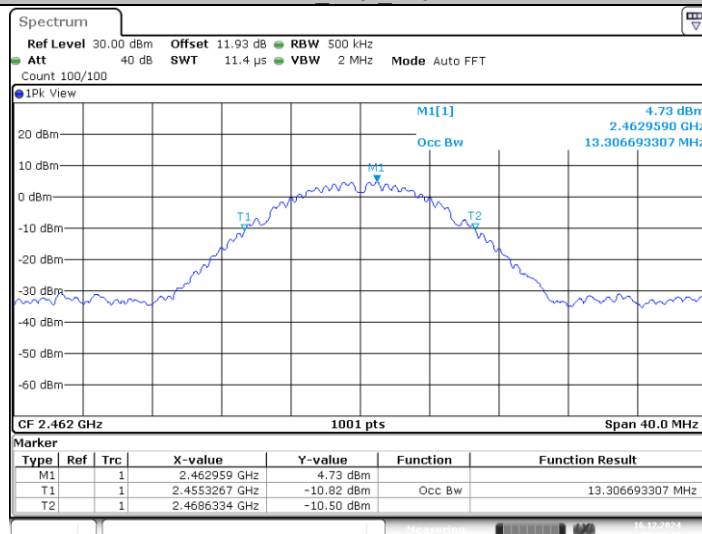
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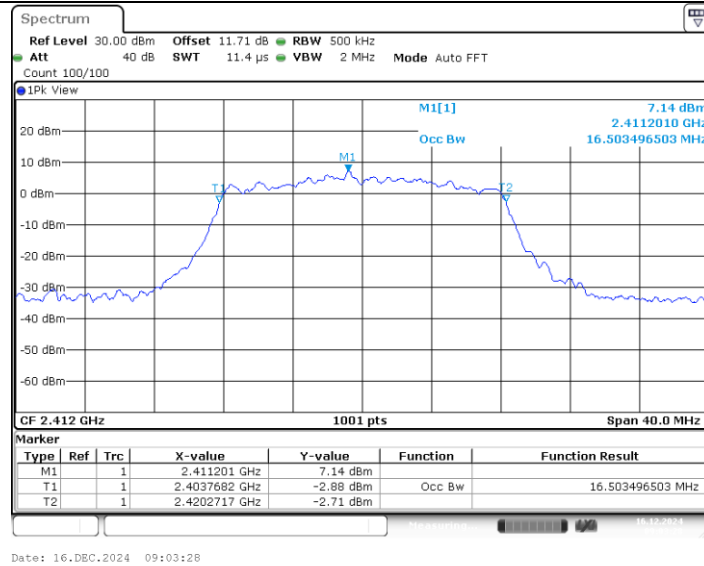
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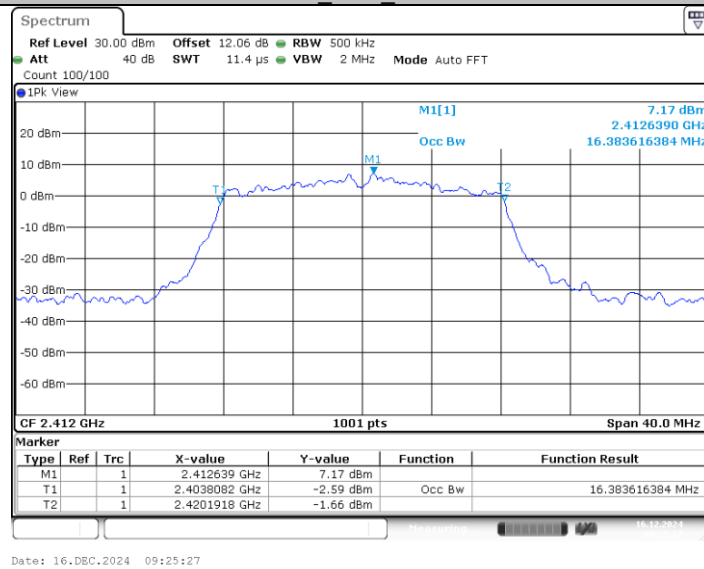


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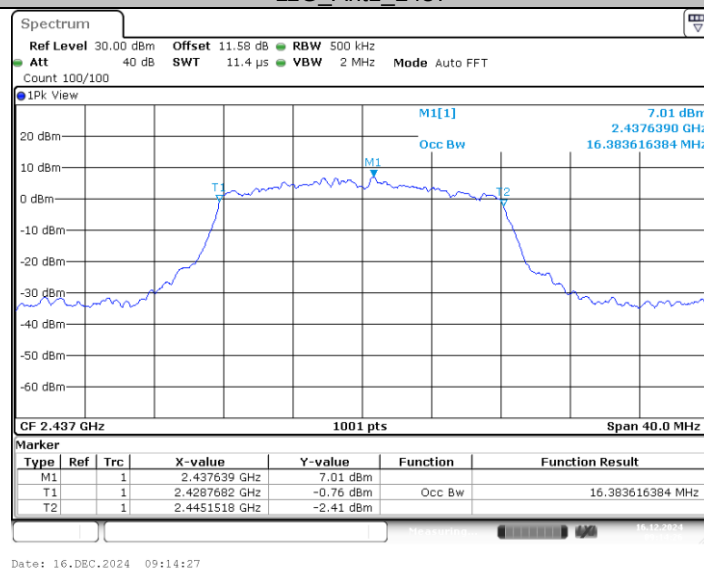
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11G_Ant2_2412



11G_Ant1_2437



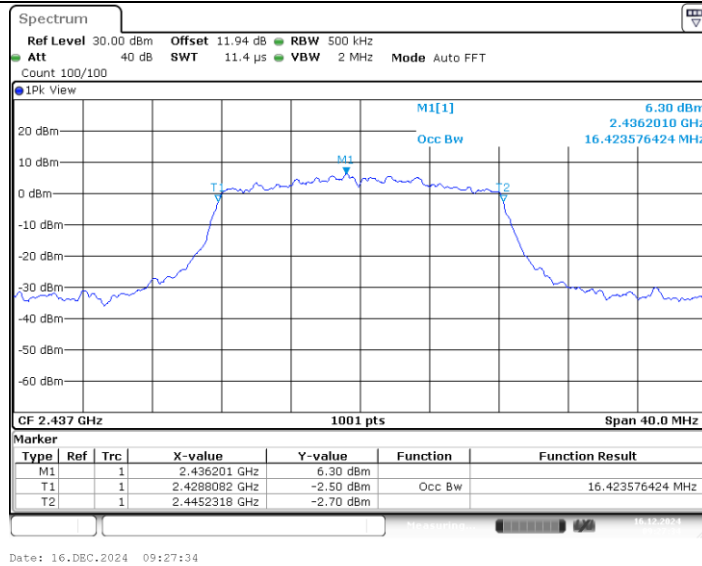
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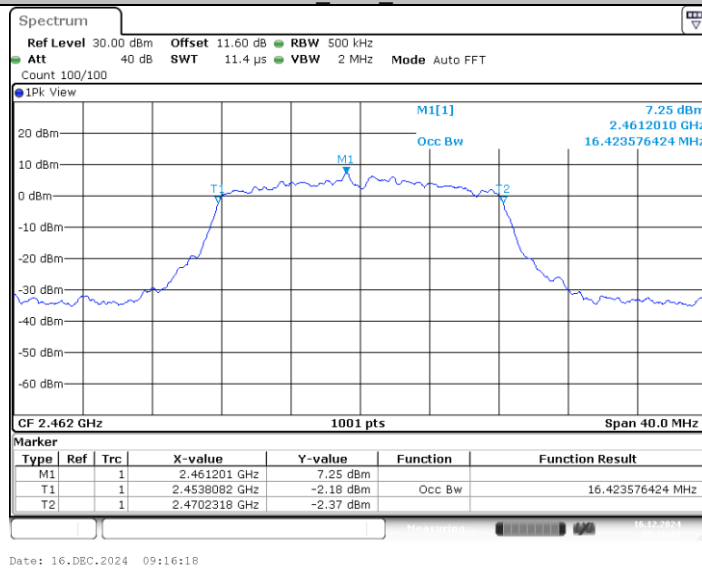
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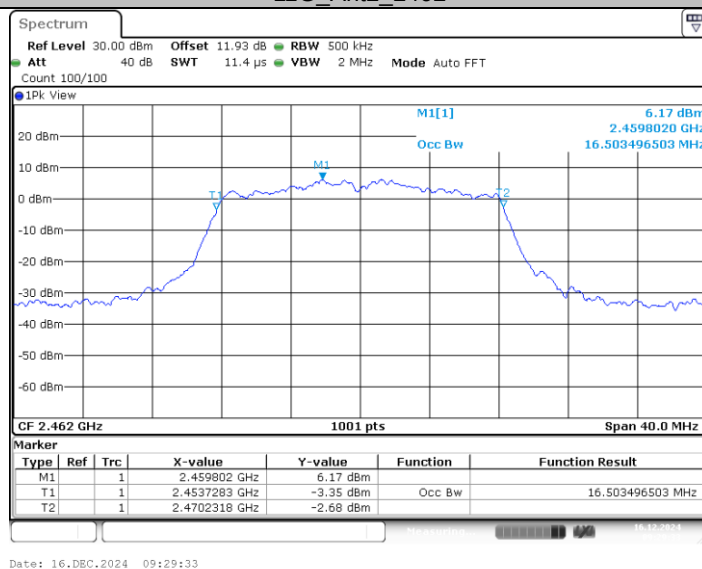
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11G_Ant1_2462



11G_Ant2_2462



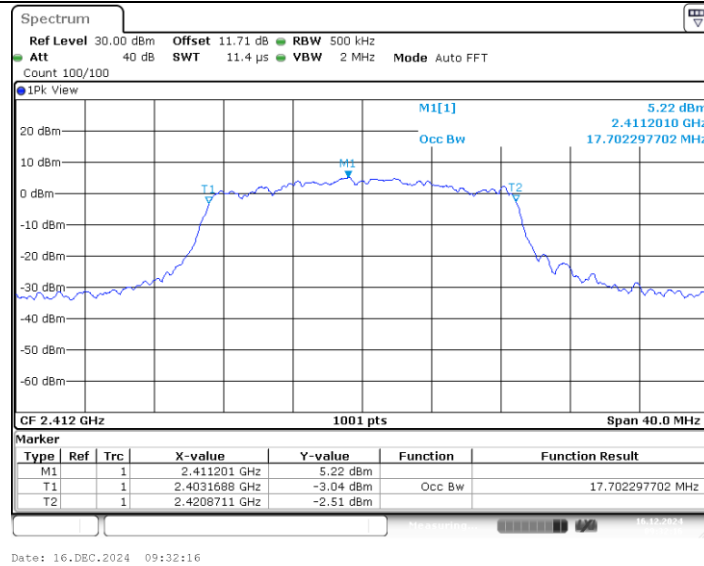
11N20MIMO_Ant1_2412

CTC Laboratories, Inc.

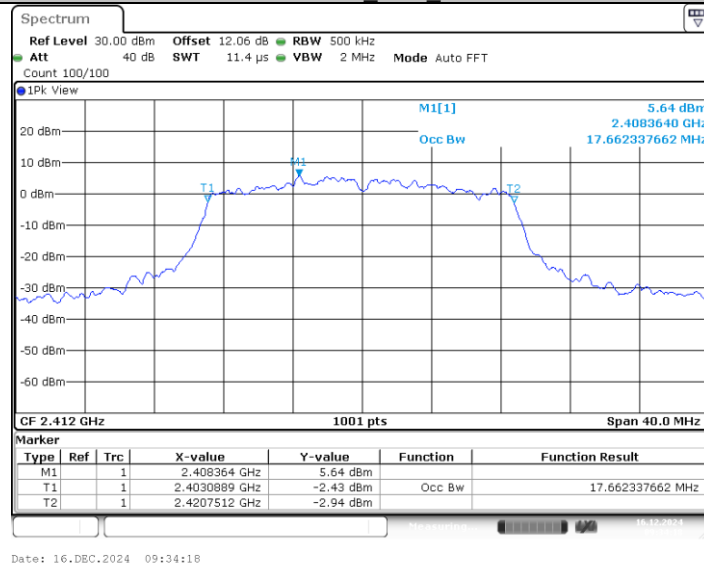
Room 101 Building B, No. 7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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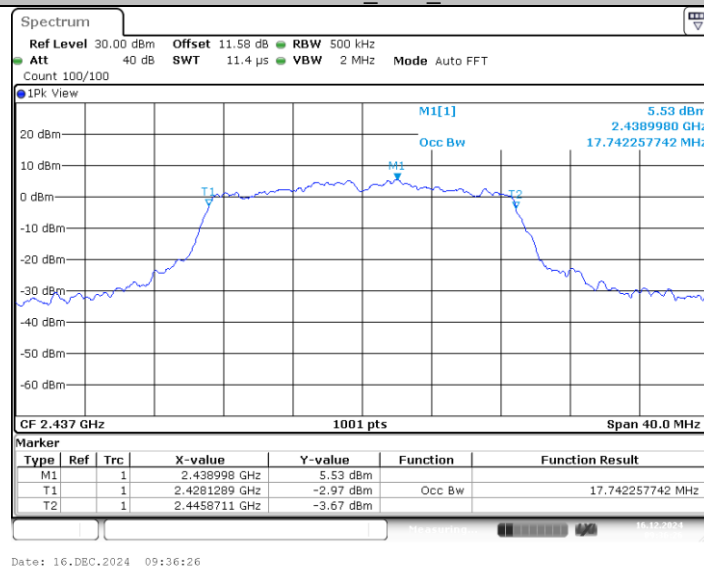
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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



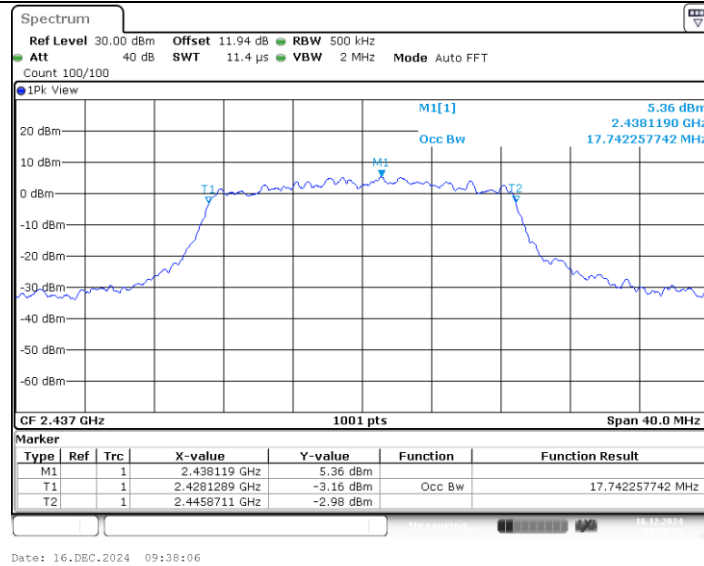
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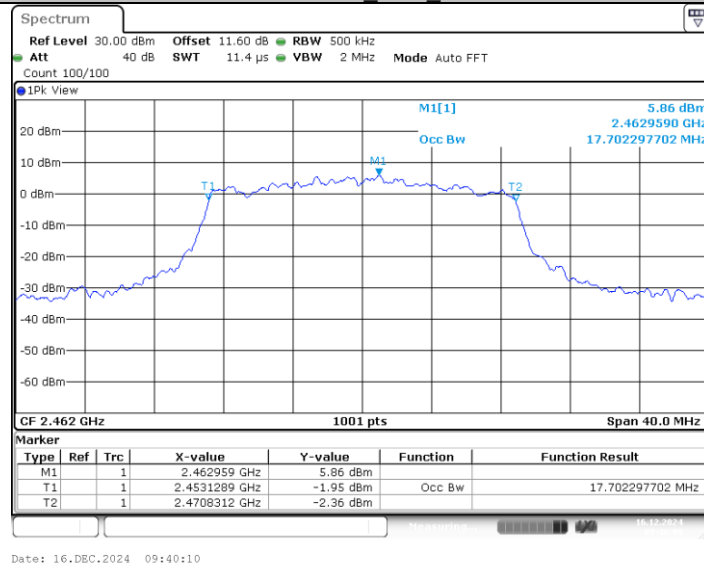
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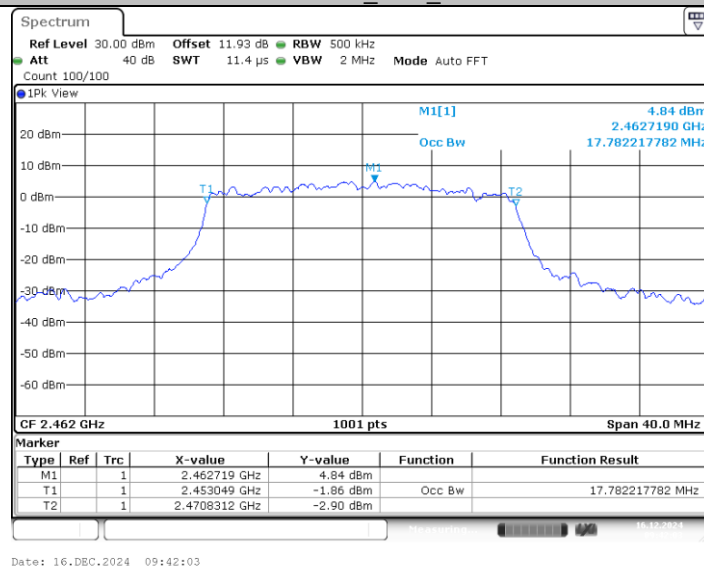
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



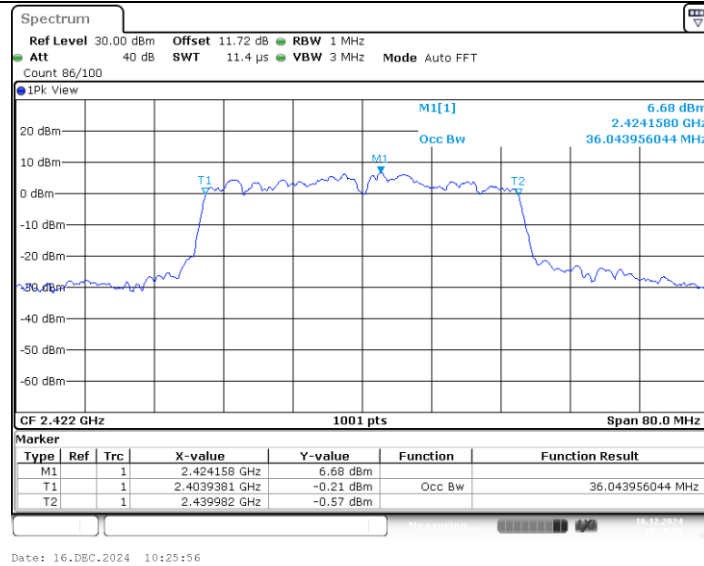
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CTC Laboratories, Inc.

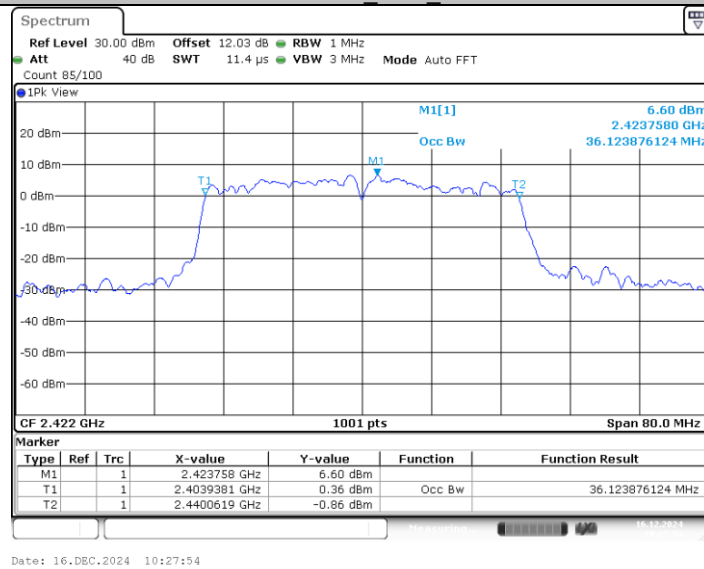
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

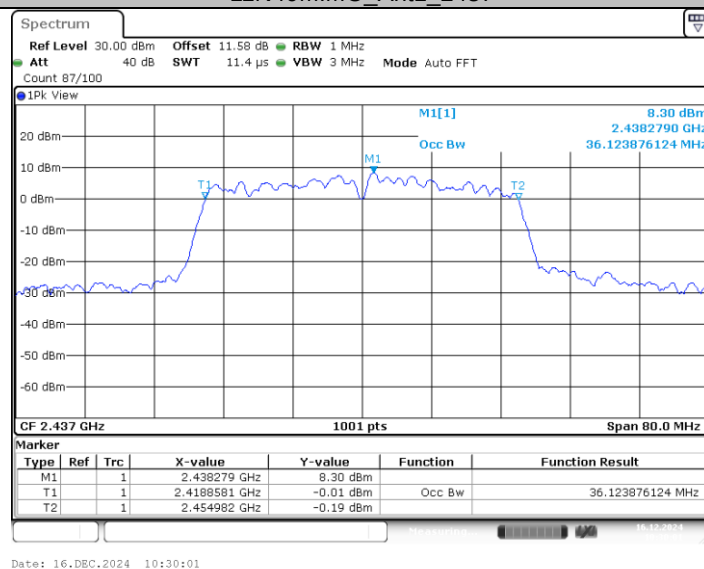
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



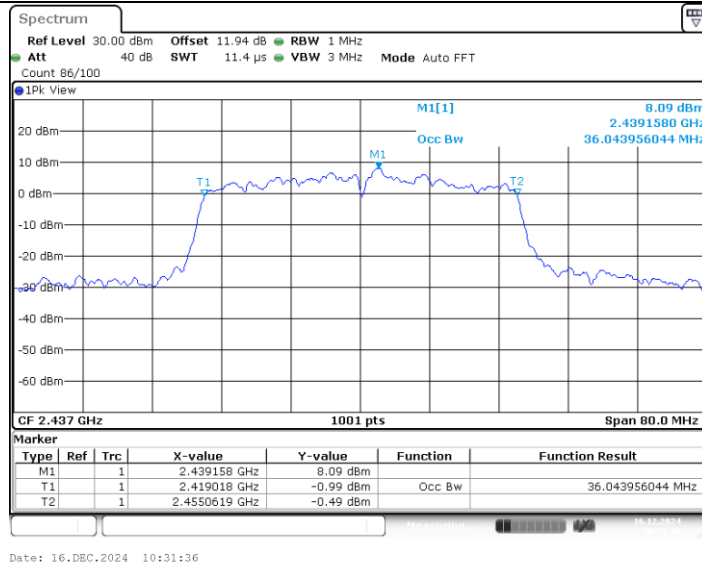
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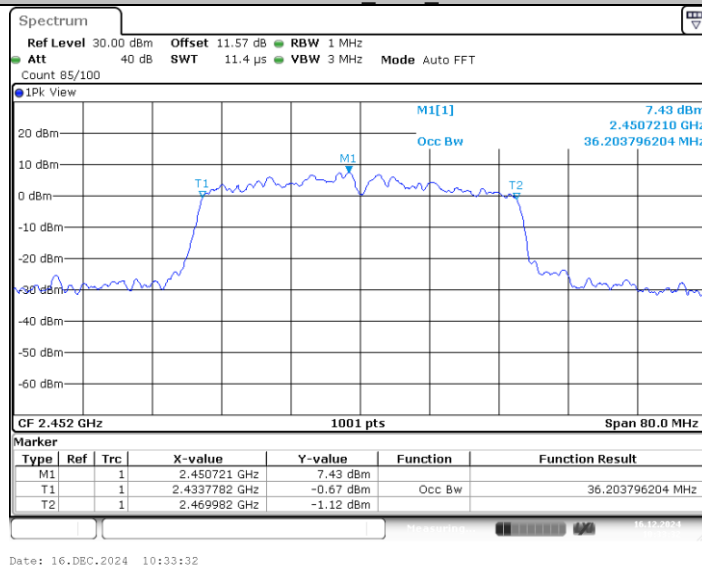
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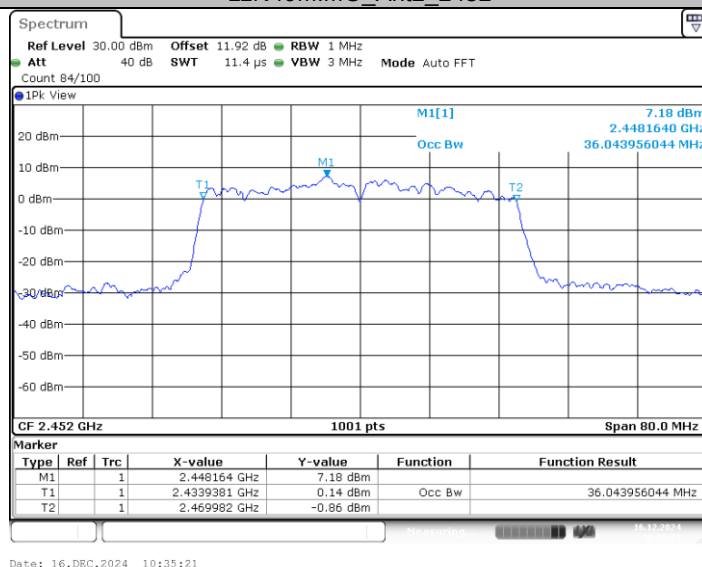
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



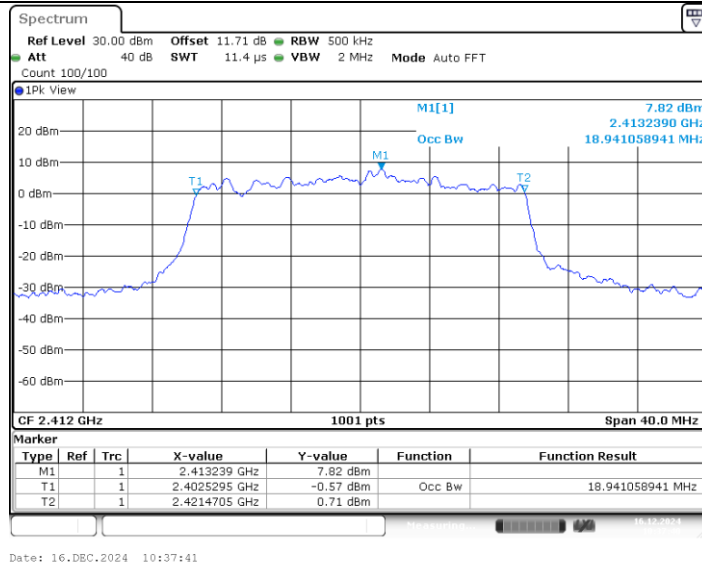
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CTC Laboratories, Inc.

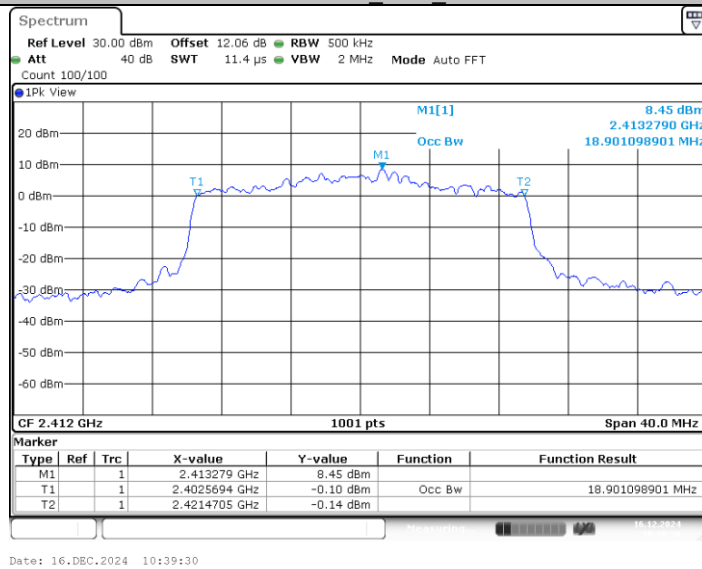
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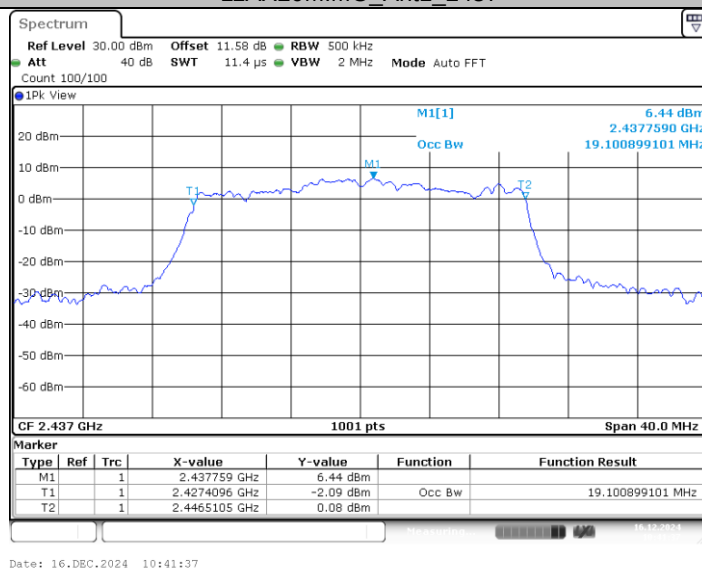
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11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



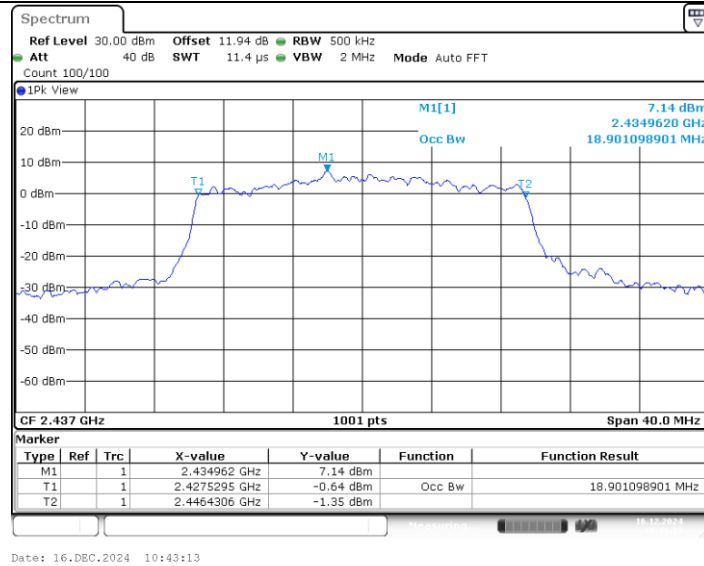
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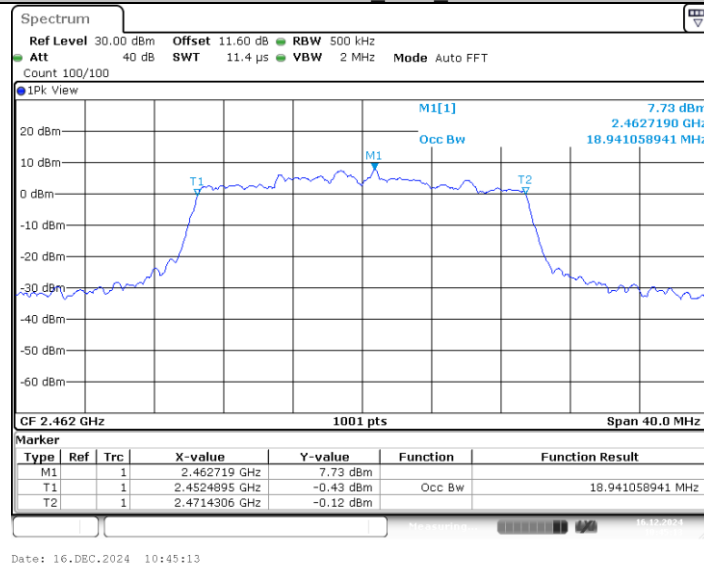
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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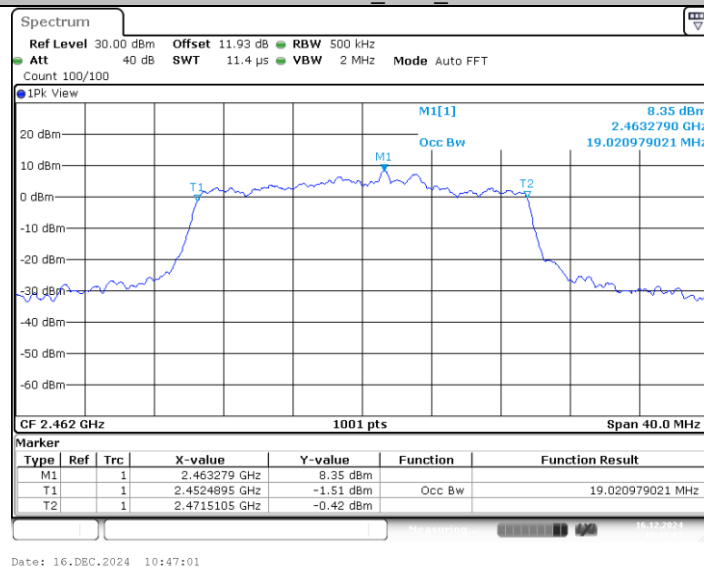
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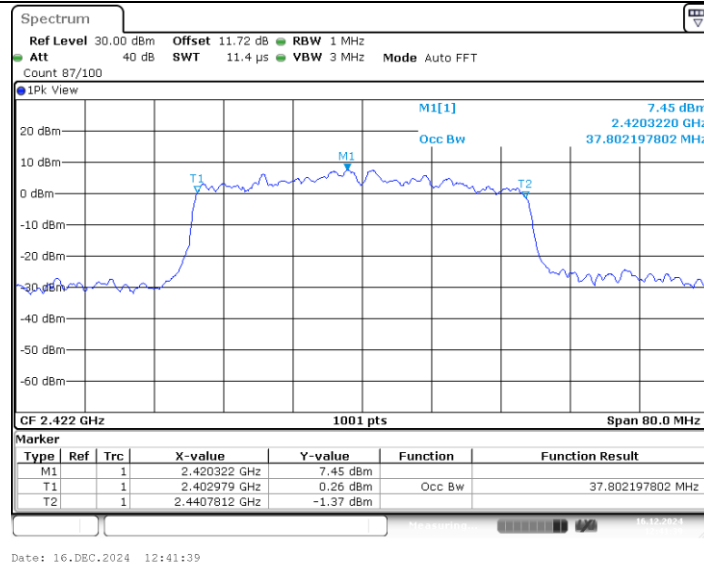
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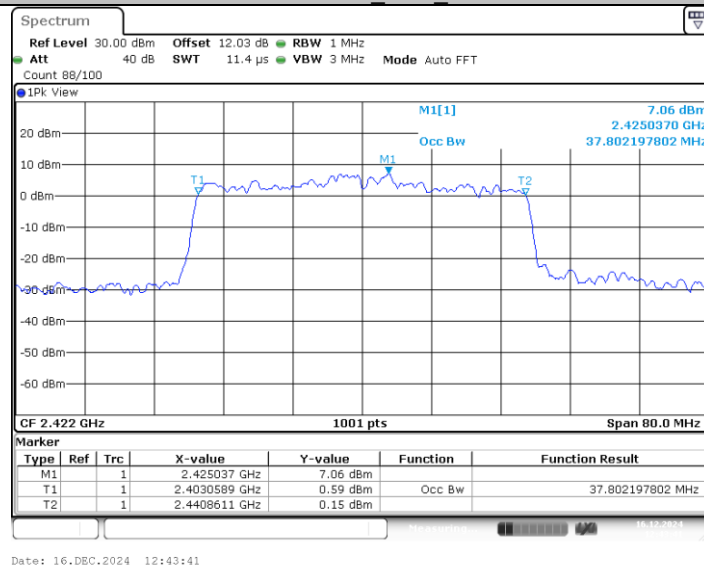
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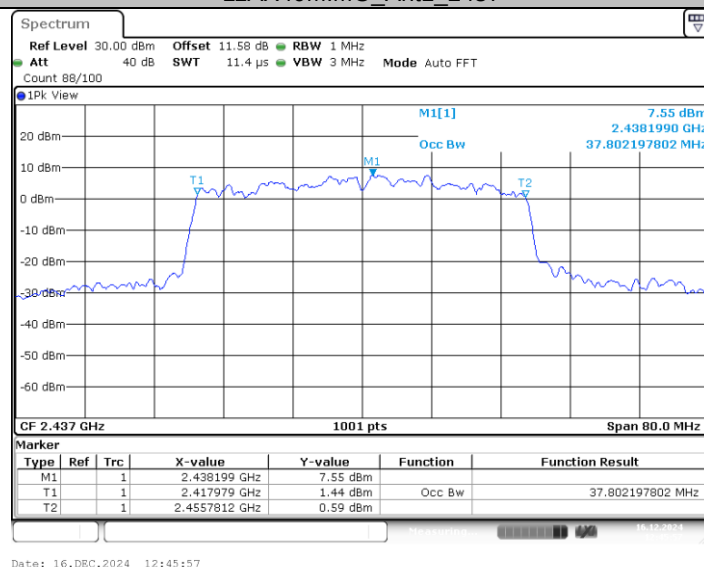
11AX40MIMO_Ant1_2422



11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



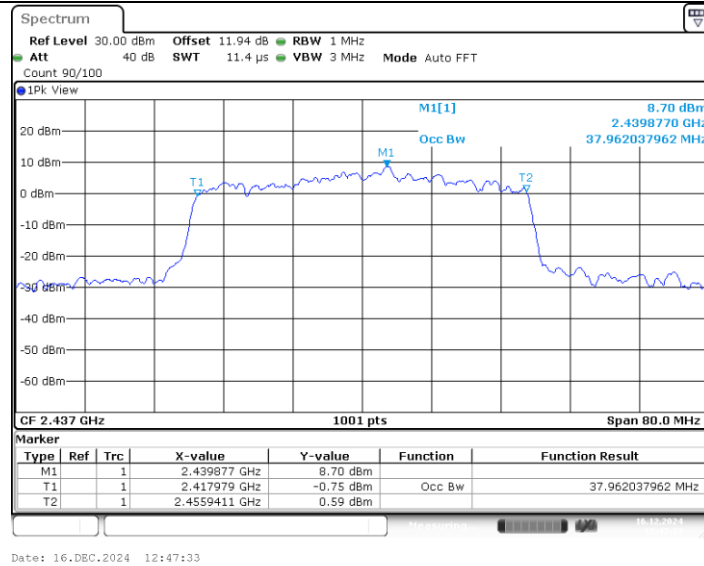
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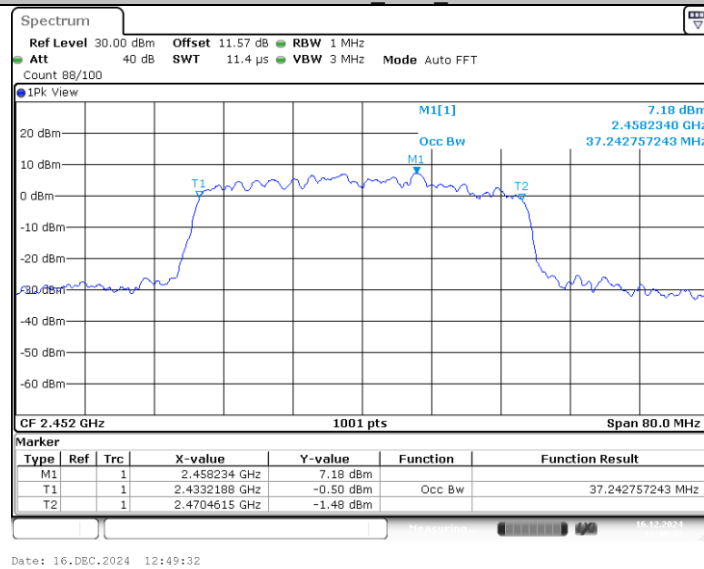
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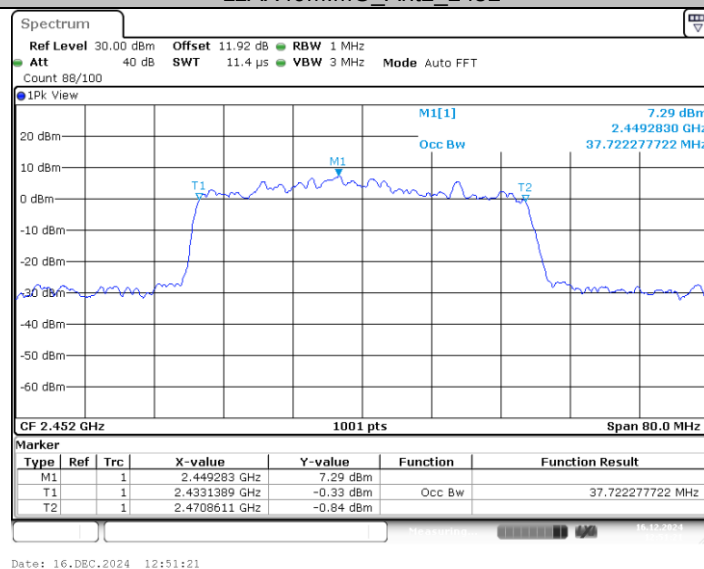
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11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



CTC Laboratories, Inc.

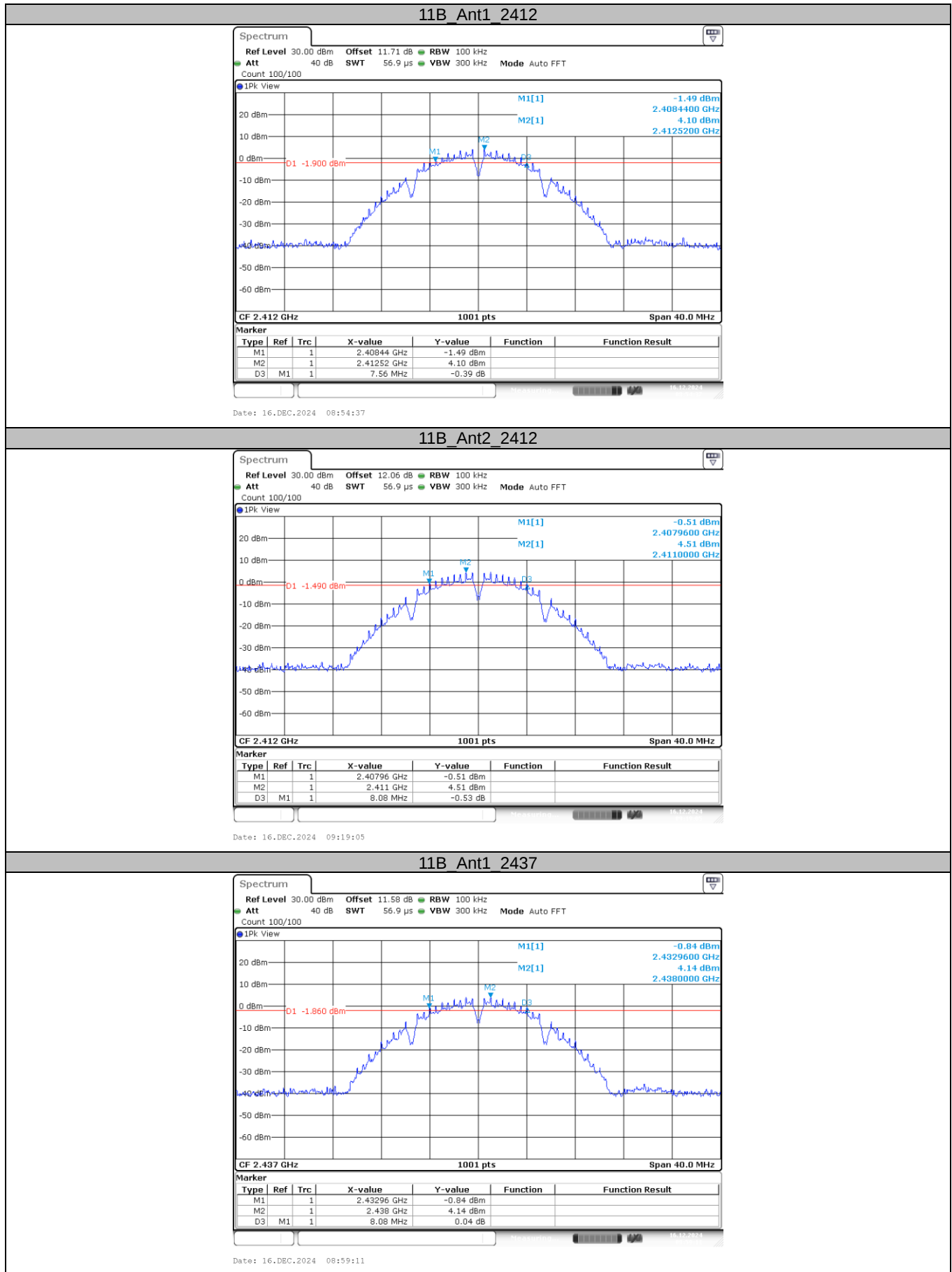
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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DTS Bandwidth:



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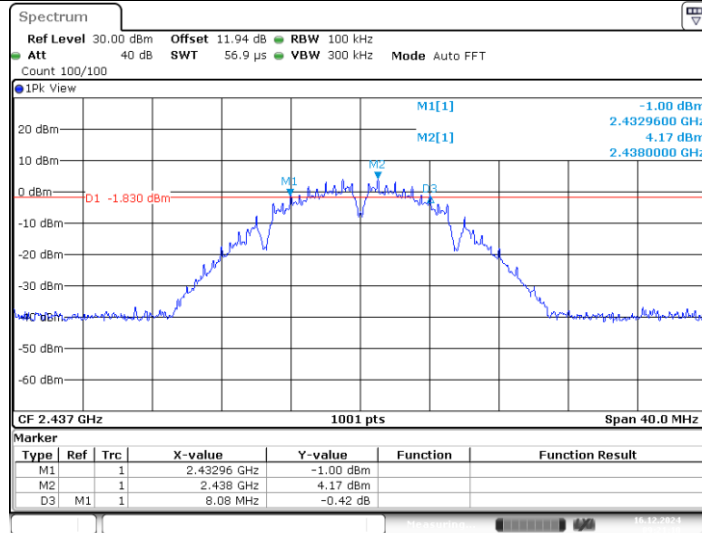
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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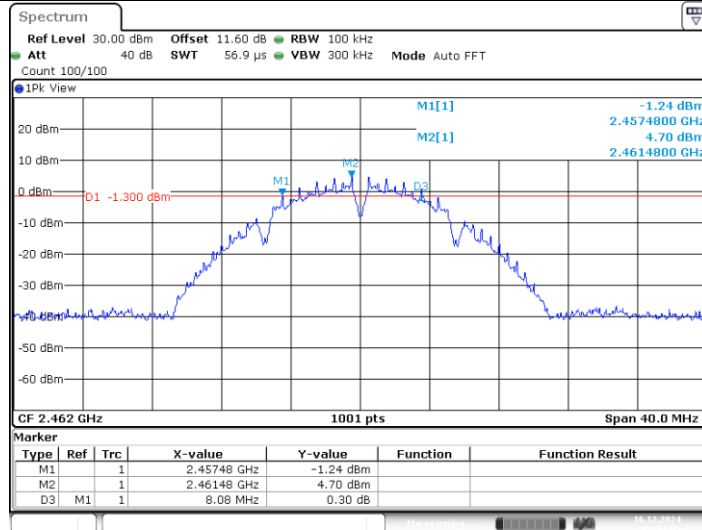


11B_Ant2_2437



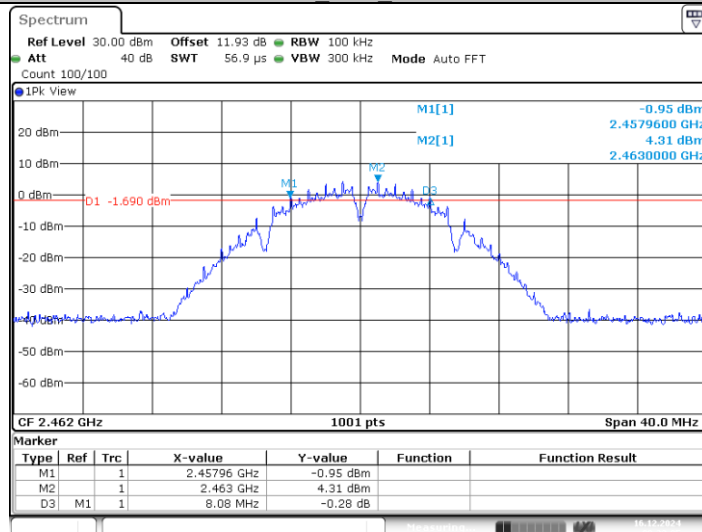
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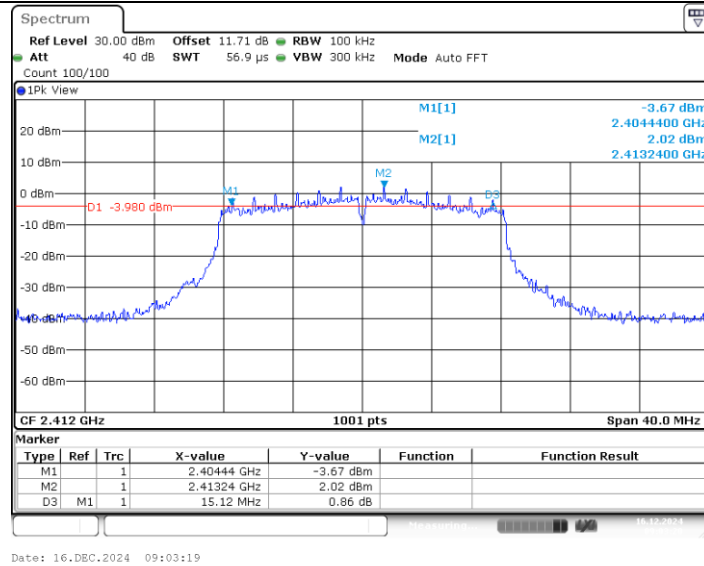
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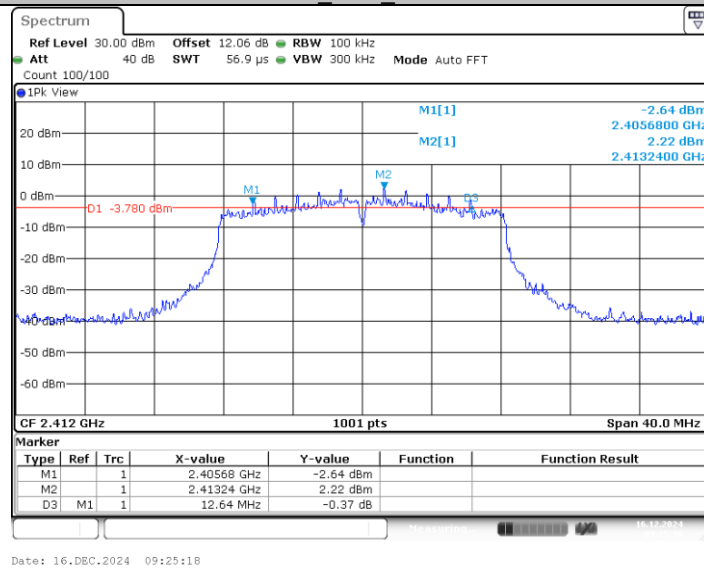


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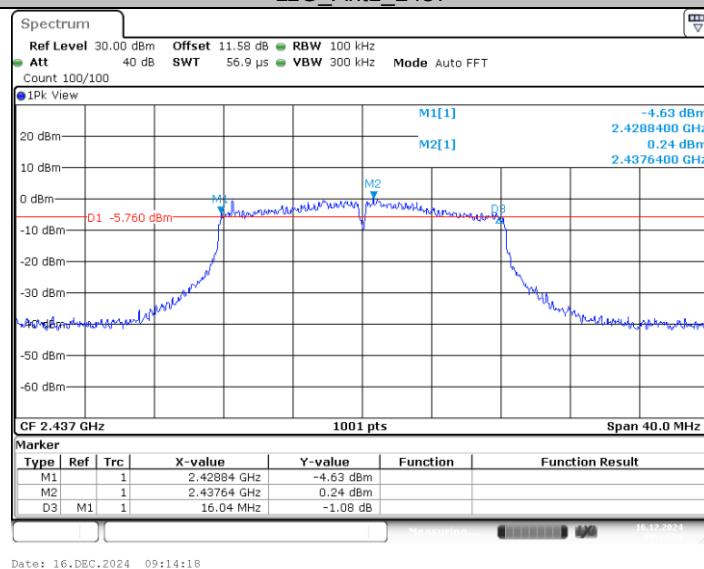
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11G_Ant2_2412



11G_Ant1_2437



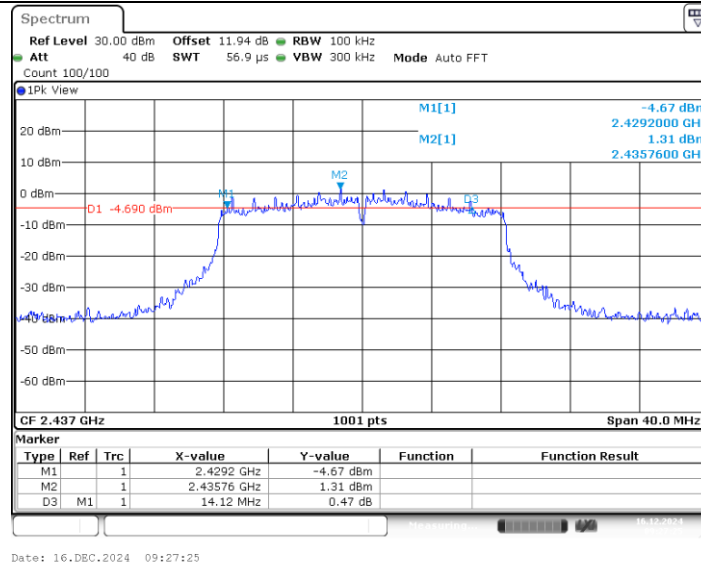
11G_Ant2_2437

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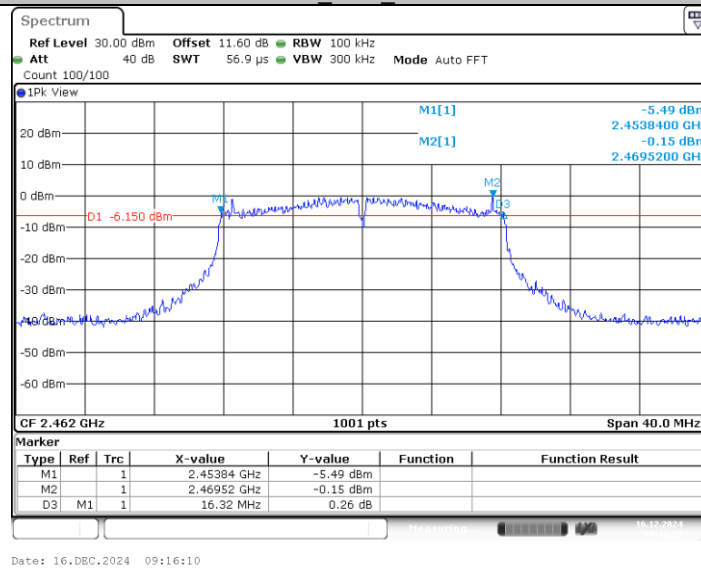
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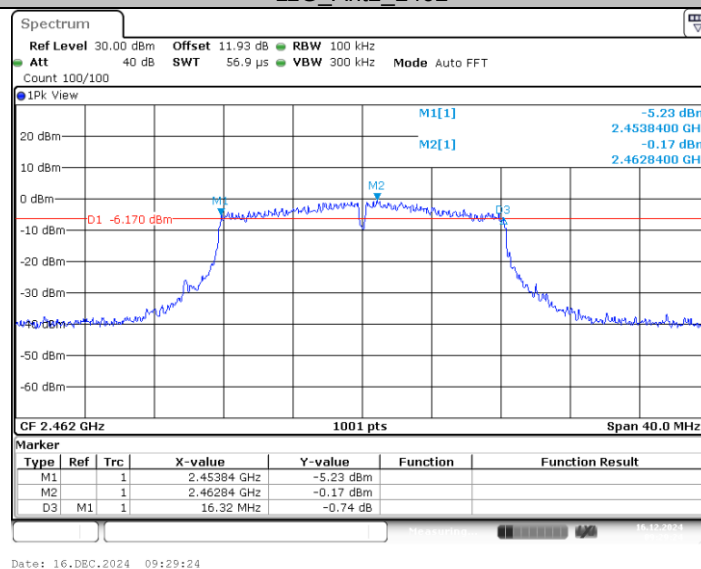
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11G_Ant1_2462



11G_Ant2_2462



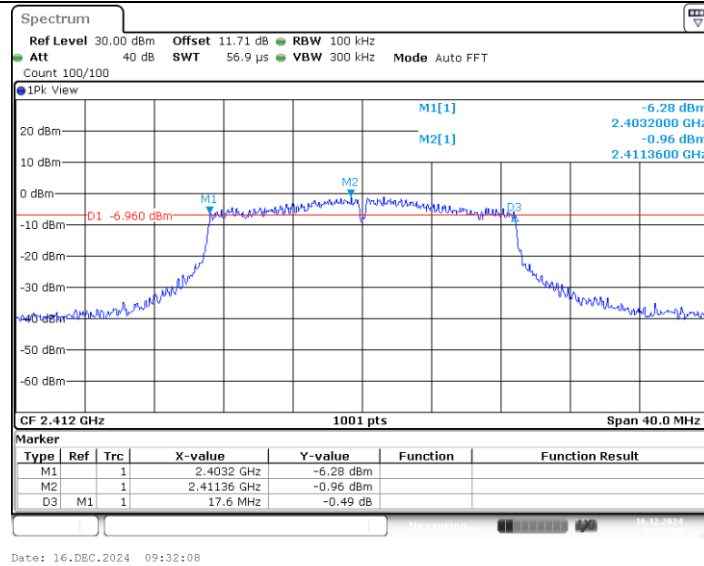
11N20MIMO_Ant1_2412

CTC Laboratories, Inc.

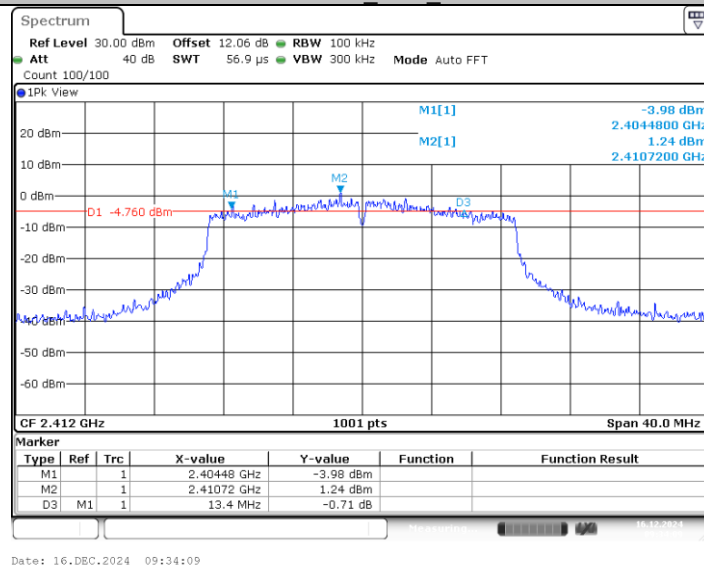
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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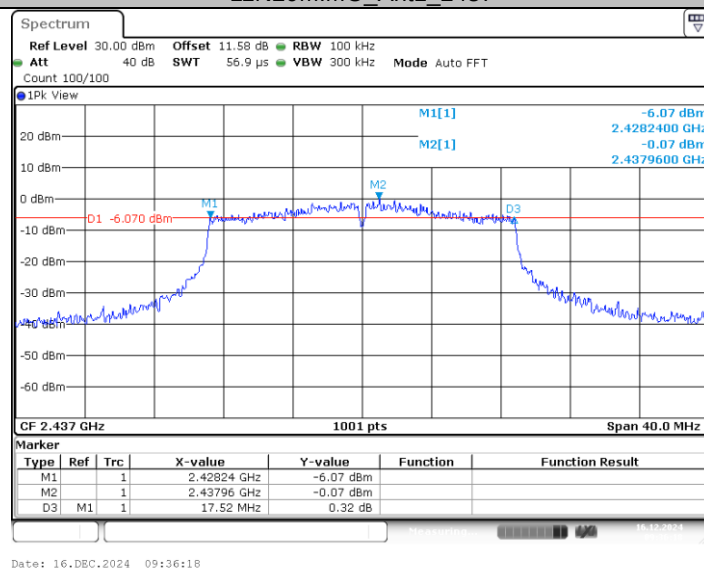
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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



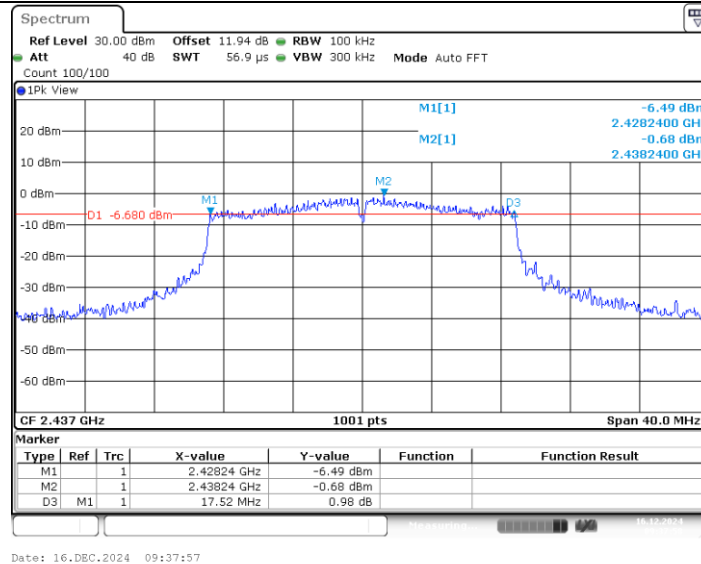
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CTC Laboratories, Inc.

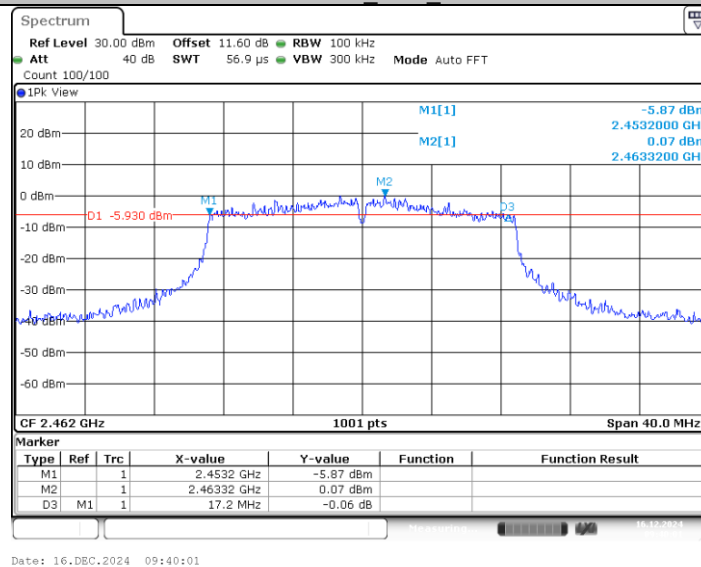
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

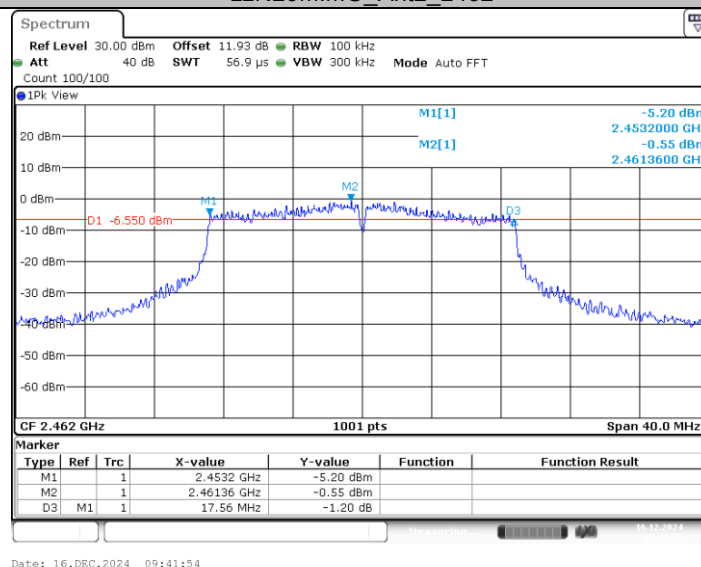
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



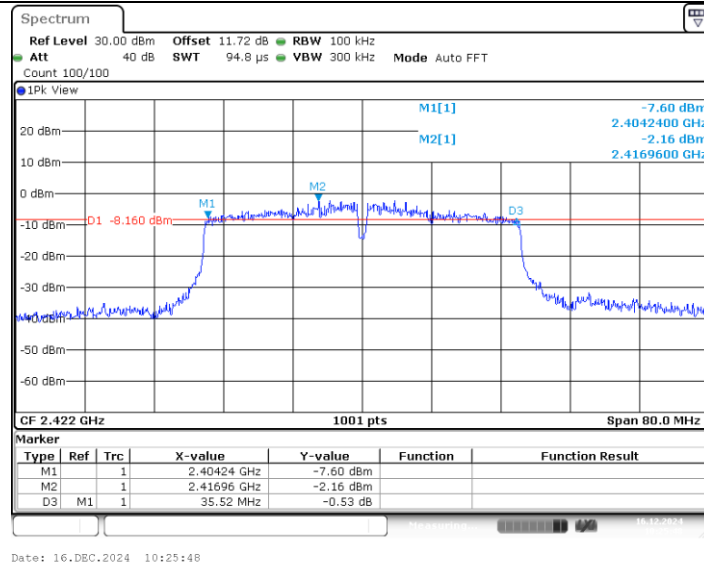
11N40MIMO_Ant1_2422

CTC Laboratories, Inc.

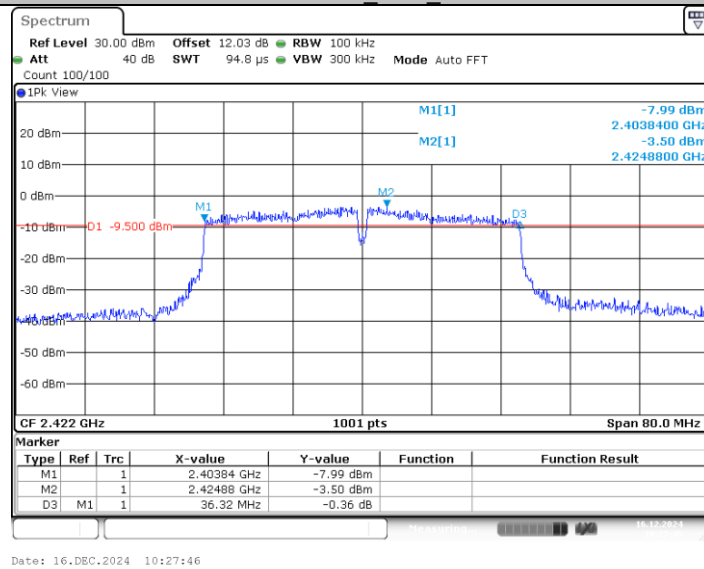
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

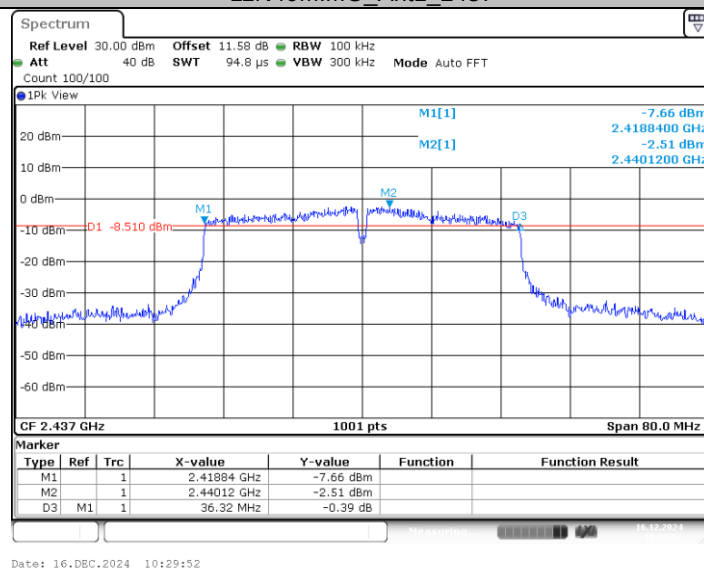
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



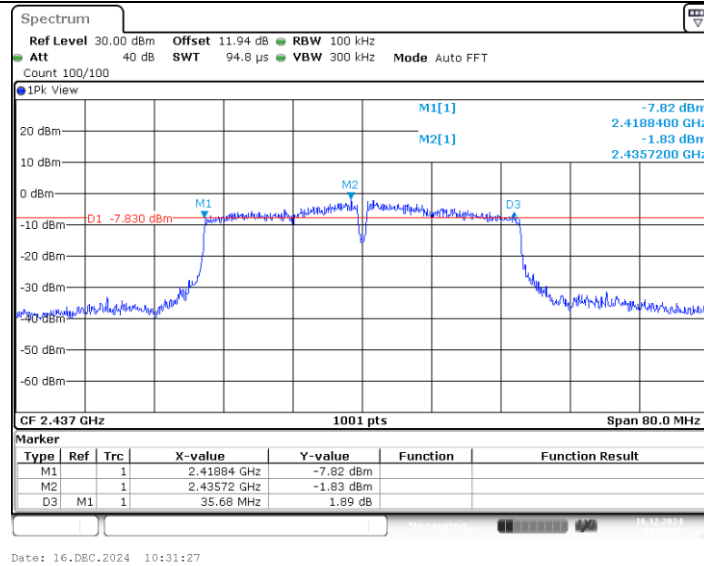
11N40MIMO_Ant2_2437

CTC Laboratories, Inc.

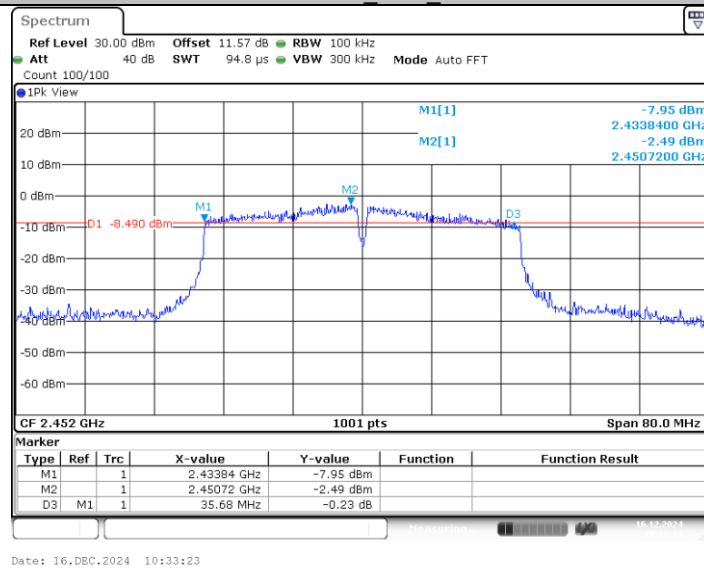
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

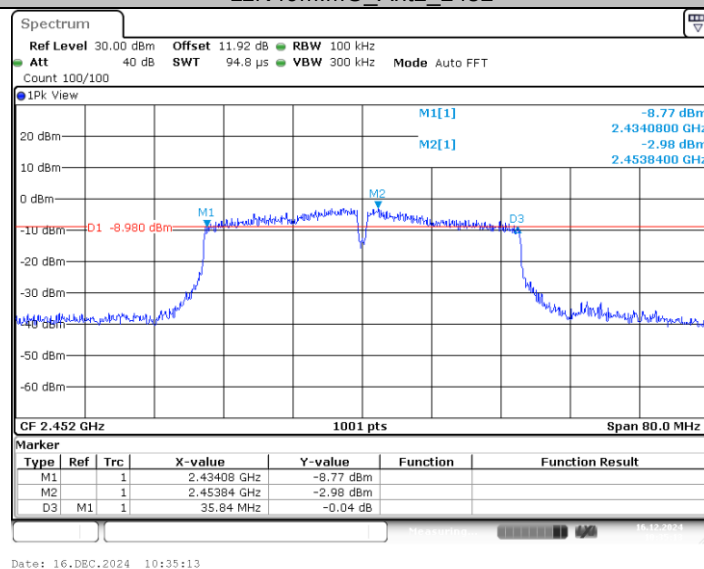
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



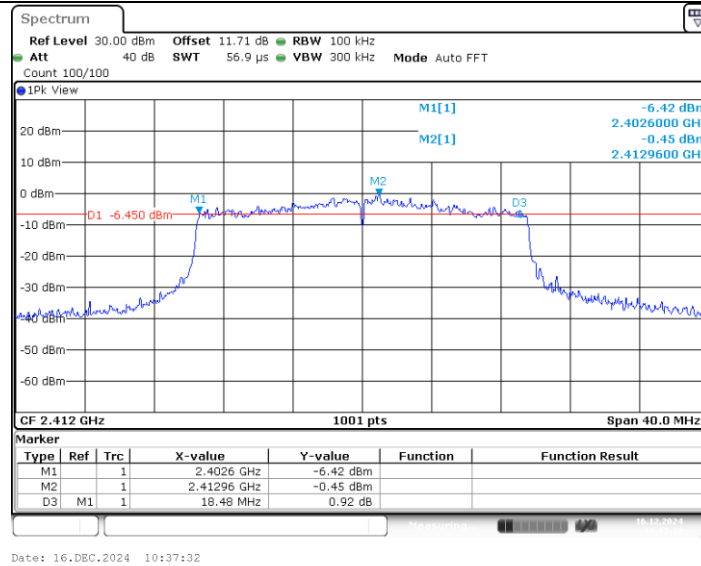
11AX20MIMO_Ant1_2412

CTC Laboratories, Inc.

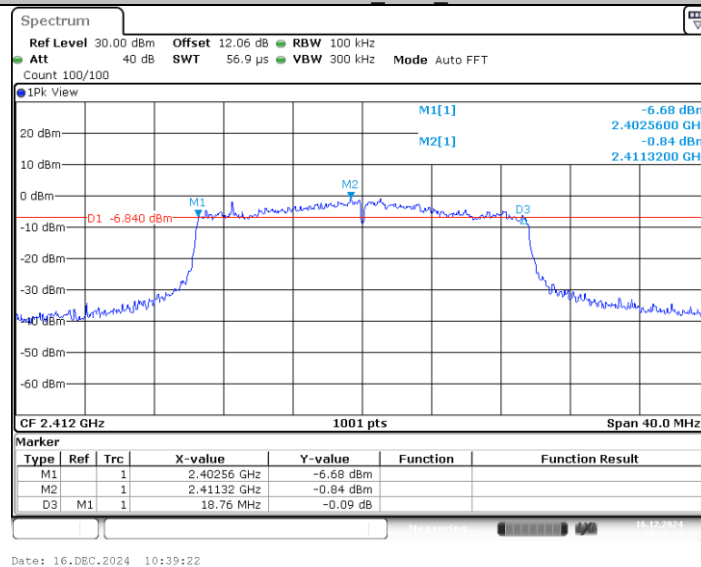
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

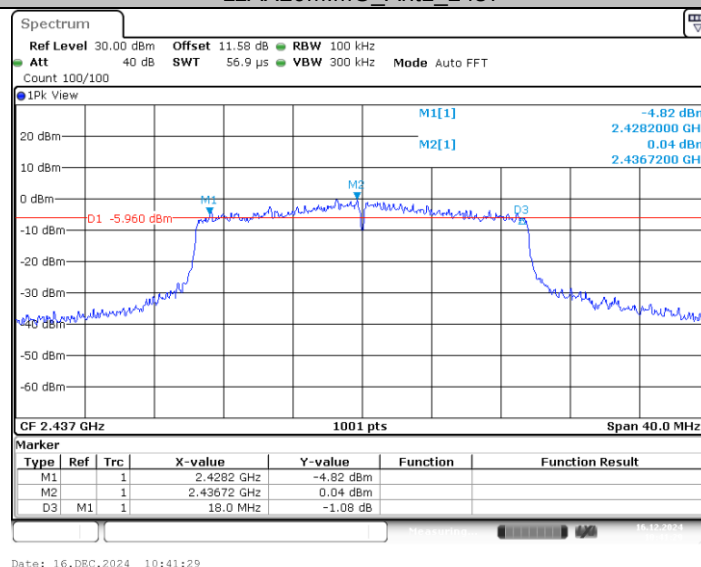
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



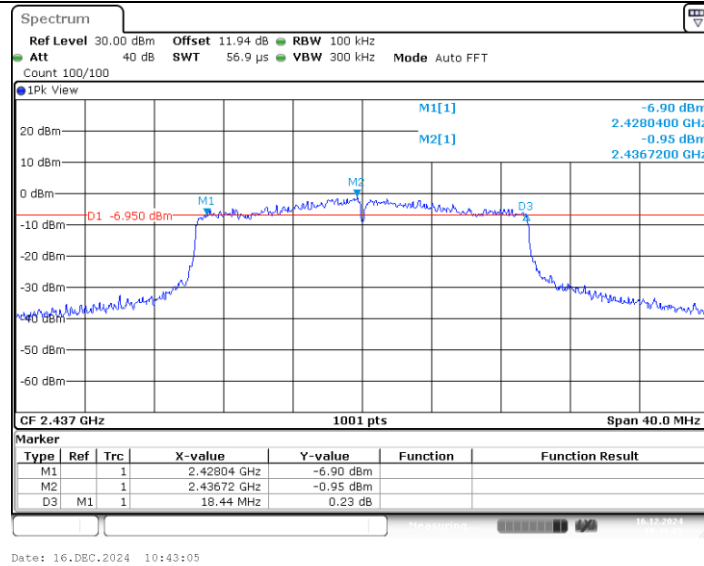
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CTC Laboratories, Inc.

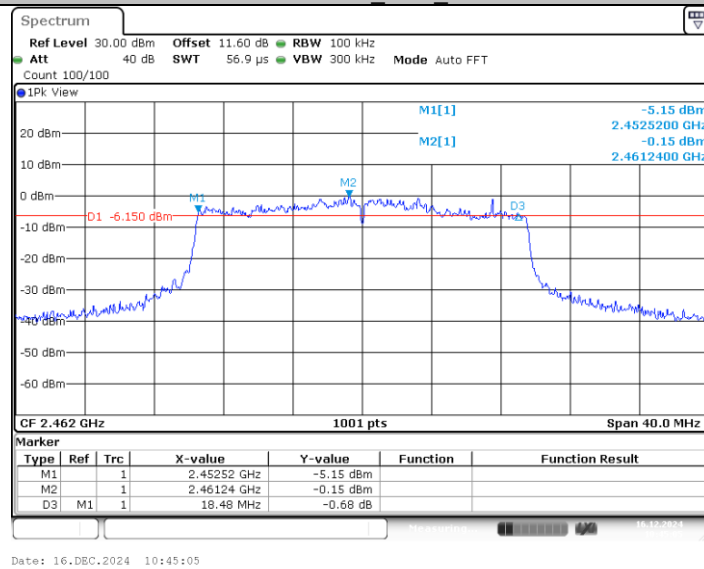
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

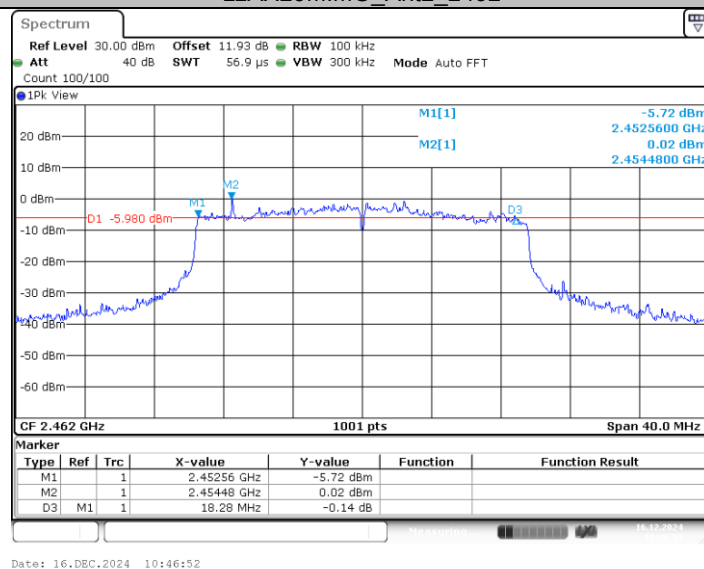
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://www.cnca.cn)



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



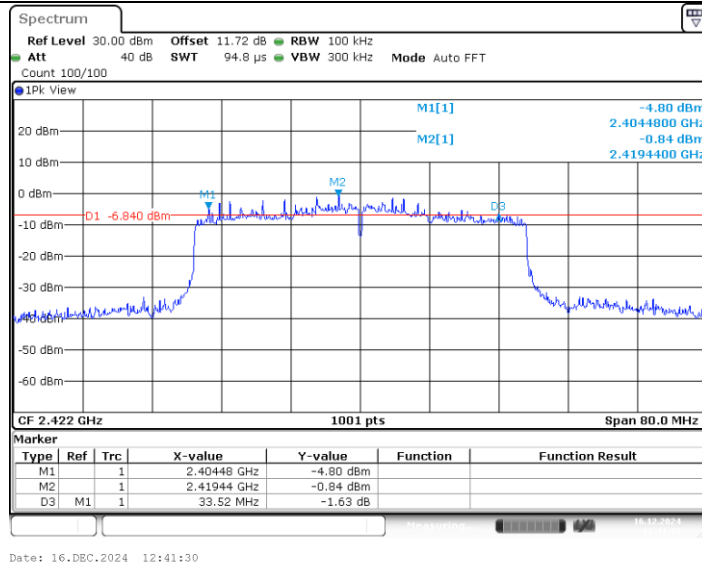
11AX40MIMO_Ant1_2422

CTC Laboratories, Inc.

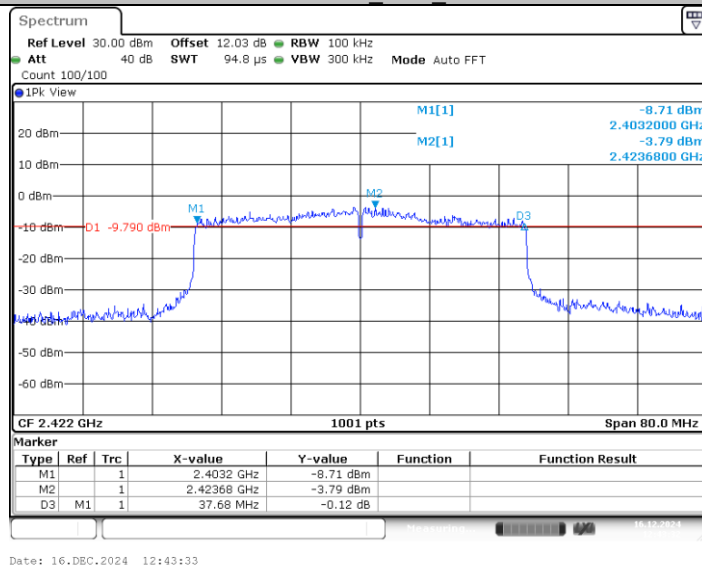
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

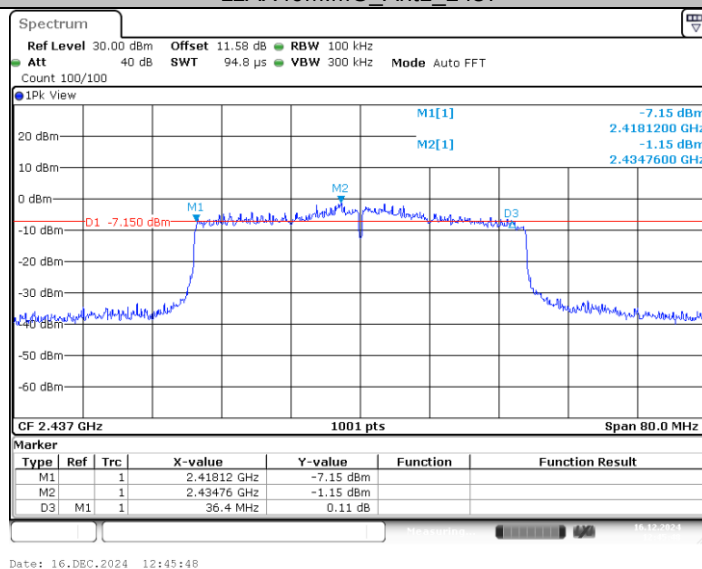
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



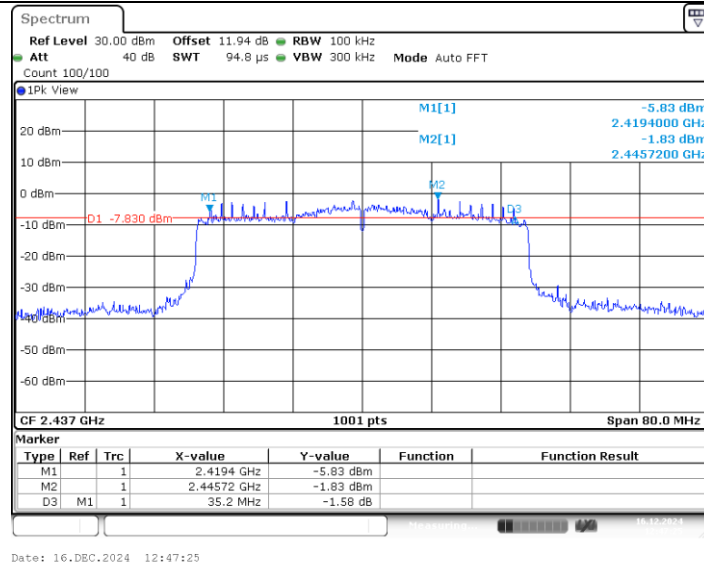
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CTC Laboratories, Inc.

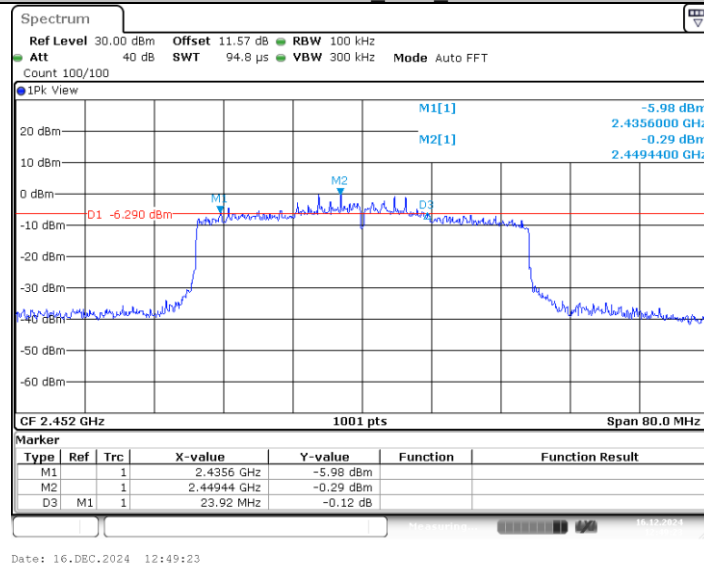
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

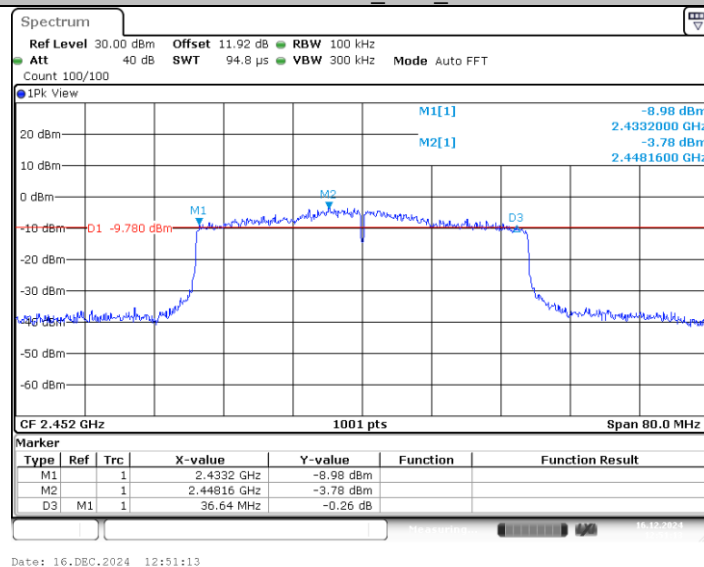
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



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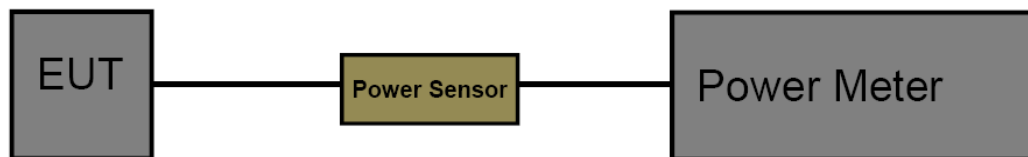
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
	EIRP	4 Watt or 36dBm	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]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	12.75	≤30.00	0.94	13.69	≤36.00	PASS
	Ant2	2412	12.71	≤30.00	1.48	14.19	≤36.00	PASS
	Ant1	2437	12.85	≤30.00	0.94	13.79	≤36.00	PASS
	Ant2	2437	12.29	≤30.00	1.48	13.77	≤36.00	PASS
	Ant1	2462	12.89	≤30.00	0.94	13.83	≤36.00	PASS
	Ant2	2462	12.43	≤30.00	1.48	13.91	≤36.00	PASS
11G	Ant1	2412	12.50	≤30.00	0.94	13.44	≤36.00	PASS
	Ant2	2412	12.38	≤30.00	1.48	13.86	≤36.00	PASS
	Ant1	2437	12.65	≤30.00	0.94	13.59	≤36.00	PASS
	Ant2	2437	12.18	≤30.00	1.48	13.66	≤36.00	PASS
	Ant1	2462	12.66	≤30.00	0.94	13.60	≤36.00	PASS
	Ant2	2462	12.47	≤30.00	1.48	13.95	≤36.00	PASS
11N20MIMO	Ant1	2412	11.74	≤30.00	0.94	12.68	≤36.00	PASS
	Ant2	2412	11.67	≤30.00	1.48	13.15	≤36.00	PASS
	total	2412	14.72	≤30.00	/	15.93	≤36.00	PASS
	Ant1	2437	11.97	≤30.00	0.94	12.91	≤36.00	PASS
	Ant2	2437	11.56	≤30.00	1.48	13.04	≤36.00	PASS
	total	2437	14.78	≤30.00	/	15.99	≤36.00	PASS
	Ant1	2462	12.04	≤30.00	0.94	12.98	≤36.00	PASS
	Ant2	2462	11.79	≤30.00	1.48	13.27	≤36.00	PASS
11N40MIMO	total	2462	14.93	≤30.00	/	16.14	≤36.00	PASS
	Ant1	2422	12.75	≤30.00	0.94	13.69	≤36.00	PASS
	Ant2	2422	12.60	≤30.00	1.48	14.08	≤36.00	PASS
	total	2422	15.69	≤30.00	/	16.90	≤36.00	PASS
	Ant1	2437	13.57	≤30.00	0.94	14.51	≤36.00	PASS
	Ant2	2437	13.06	≤30.00	1.48	14.54	≤36.00	PASS
	total	2437	16.33	≤30.00	/	17.54	≤36.00	PASS
	Ant1	2452	12.94	≤30.00	0.94	13.88	≤36.00	PASS
11AX20MIMO	Ant2	2452	12.56	≤30.00	1.48	14.04	≤36.00	PASS
	total	2452	15.76	≤30.00	/	16.97	≤36.00	PASS
	Ant1	2412	12.06	≤30.00	0.94	13.00	≤36.00	PASS
	Ant2	2412	12.18	≤30.00	1.48	13.66	≤36.00	PASS
	total	2412	15.13	≤30.00	/	16.35	≤36.00	PASS
	Ant1	2437	12.36	≤30.00	0.94	13.30	≤36.00	PASS
	Ant2	2437	12.00	≤30.00	1.48	13.48	≤36.00	PASS
	total	2437	15.19	≤30.00	/	16.40	≤36.00	PASS
11AX40MIMO	Ant1	2462	12.36	≤30.00	0.94	13.30	≤36.00	PASS
	Ant2	2462	12.17	≤30.00	1.48	13.65	≤36.00	PASS
	total	2462	15.28	≤30.00	/	16.49	≤36.00	PASS
	Ant1	2422	12.89	≤30.00	0.94	13.83	≤36.00	PASS
	Ant2	2422	12.59	≤30.00	1.48	14.07	≤36.00	PASS
	total	2422	15.75	≤30.00	/	16.96	≤36.00	PASS
	Ant1	2437	13.58	≤30.00	0.94	14.52	≤36.00	PASS
	Ant2	2437	13.03	≤30.00	1.48	14.51	≤36.00	PASS
	total	2437	16.32	≤30.00	/	17.53	≤36.00	PASS
	Ant1	2452	12.66	≤30.00	0.94	13.60	≤36.00	PASS
	Ant2	2452	12.30	≤30.00	1.48	13.78	≤36.00	PASS
	total	2452	15.49	≤30.00	/	16.70	≤36.00	PASS



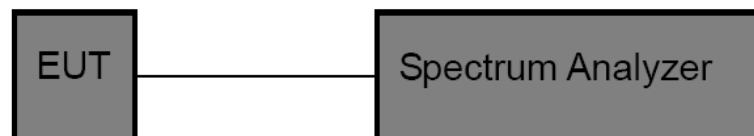
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

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 span to at least 1.5 times the OBW.
Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
Set VBW $\geq [3 \times \text{RBW}]$.
Detector = power averaging (rms) or sample detector (when rms not available).
Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
Sweep time = auto couple.
Employ trace averaging (rms) mode over a minimum of 100 traces.
Use the peak marker function to determine the maximum amplitude level.
If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Mode

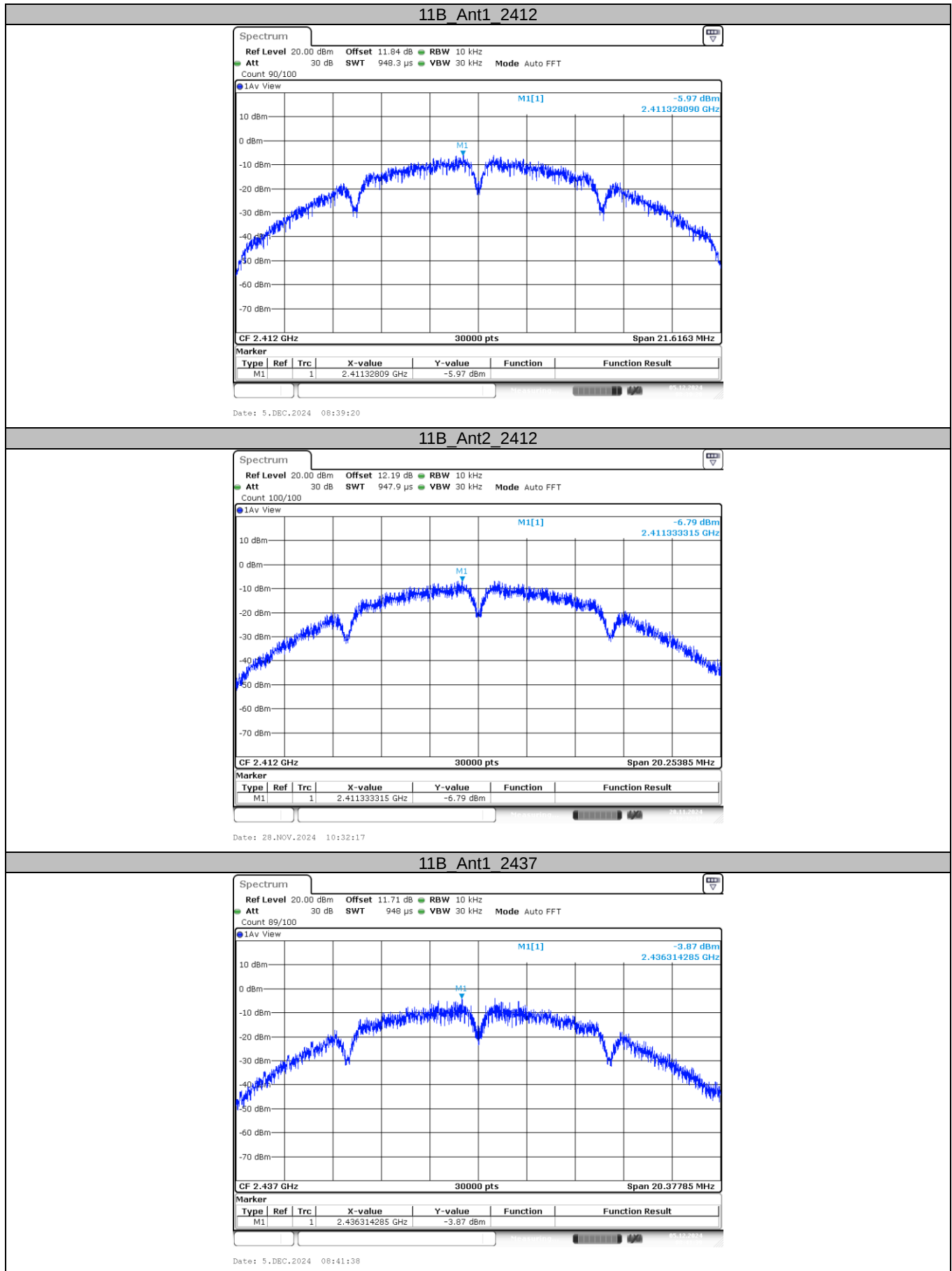
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.97	≤8.00	PASS
	Ant2	2412	-6.79	≤8.00	PASS
	Ant1	2437	-3.87	≤8.00	PASS
	Ant2	2437	-7.23	≤8.00	PASS
	Ant1	2462	-6.07	≤8.00	PASS
	Ant2	2462	-6.66	≤8.00	PASS
11G	Ant1	2412	-9.46	≤8.00	PASS
	Ant2	2412	-11.24	≤8.00	PASS
	Ant1	2437	-9.24	≤8.00	PASS
	Ant2	2437	-11.44	≤8.00	PASS
	Ant1	2462	-8.89	≤8.00	PASS
	Ant2	2462	-9.78	≤8.00	PASS
11N20MIMO	Ant1	2412	-11.63	≤8.00	PASS
	Ant2	2412	-12.28	≤8.00	PASS
	total	2412	-8.93	≤8.00	PASS
	Ant1	2437	-11.64	≤8.00	PASS
	Ant2	2437	-12.16	≤8.00	PASS
	total	2437	-8.88	≤8.00	PASS
	Ant1	2462	-11.32	≤8.00	PASS
	Ant2	2462	-10.98	≤8.00	PASS
	total	2462	-8.14	≤8.00	PASS
11N40MIMO	Ant1	2422	-16.15	≤8.00	PASS
	Ant2	2422	-15.22	≤8.00	PASS
	total	2422	-12.65	≤8.00	PASS
	Ant1	2437	-15.16	≤8.00	PASS
	Ant2	2437	-16.00	≤8.00	PASS
	total	2437	-12.55	≤8.00	PASS
	Ant1	2452	-15.59	≤8.00	PASS
	Ant2	2452	-16.11	≤8.00	PASS
	total	2452	-12.83	≤8.00	PASS
11AX20MIMO	Ant1	2412	-13.64	≤8.00	PASS
	Ant2	2412	-14.11	≤8.00	PASS
	total	2412	-10.86	≤8.00	PASS
	Ant1	2437	-13.92	≤8.00	PASS
	Ant2	2437	-13.65	≤8.00	PASS
	total	2437	-10.77	≤8.00	PASS
	Ant1	2462	-13.80	≤8.00	PASS
	Ant2	2462	-13.76	≤8.00	PASS
11AX40MIMO	total	2462	-10.77	≤8.00	PASS
	Ant1	2422	-16.66	≤8.00	PASS
	Ant2	2422	-16.91	≤8.00	PASS
	total	2422	-13.77	≤8.00	PASS
	Ant1	2437	-15.76	≤8.00	PASS
	Ant2	2437	-16.55	≤8.00	PASS
	total	2437	-13.13	≤8.00	PASS
	Ant1	2452	-14.76	≤8.00	PASS
	Ant2	2452	-16.49	≤8.00	PASS
	total	2452	-12.53	≤8.00	PASS



Test plot as follows:



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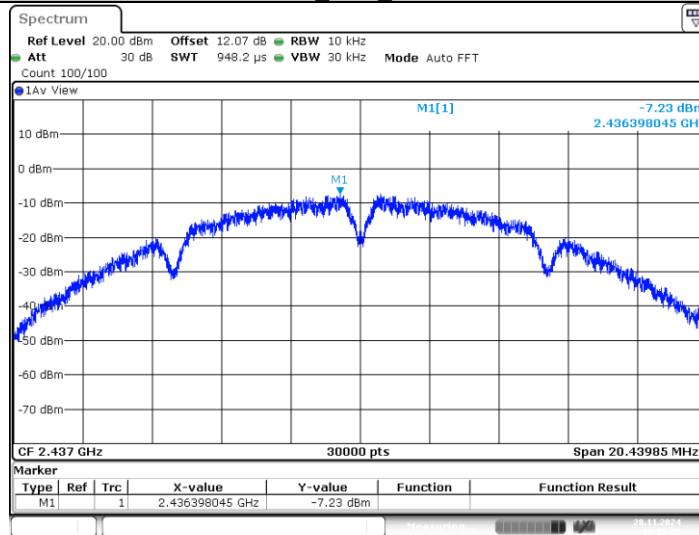
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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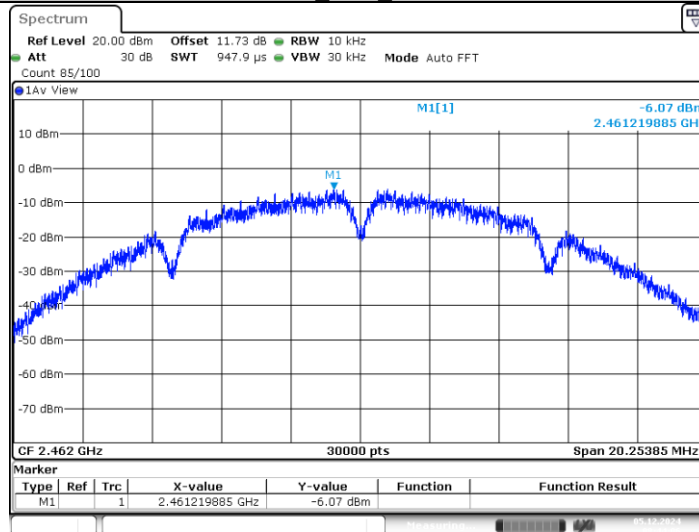


11B_Ant2_2437



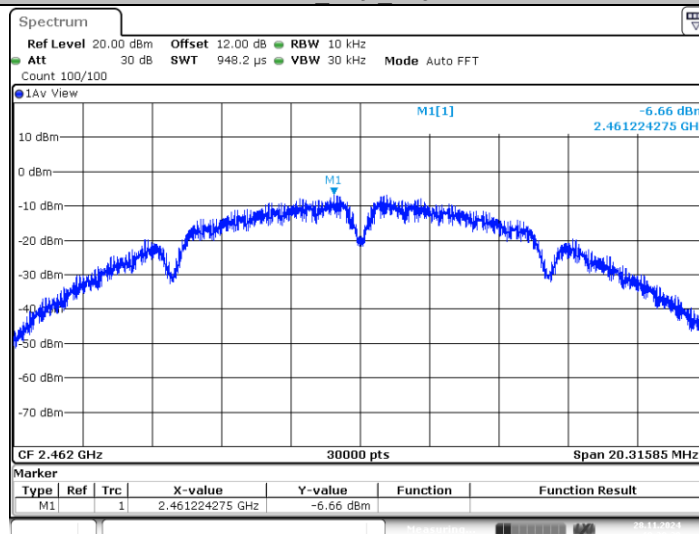
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11B_Ant1_2462



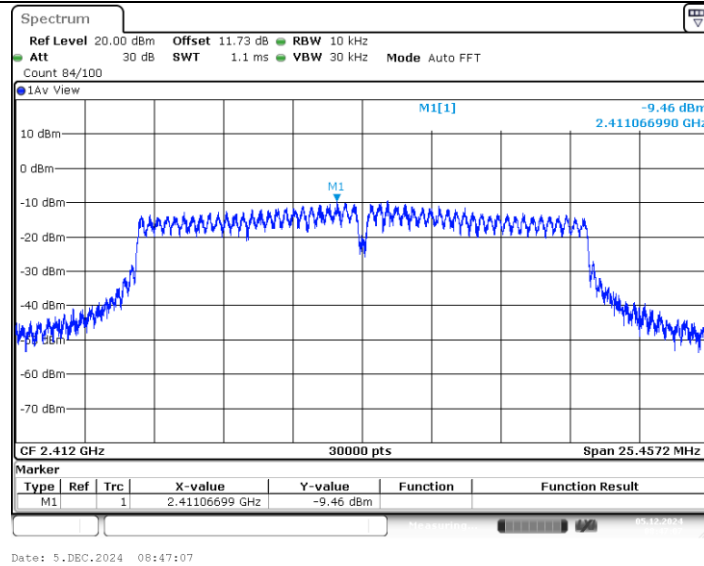
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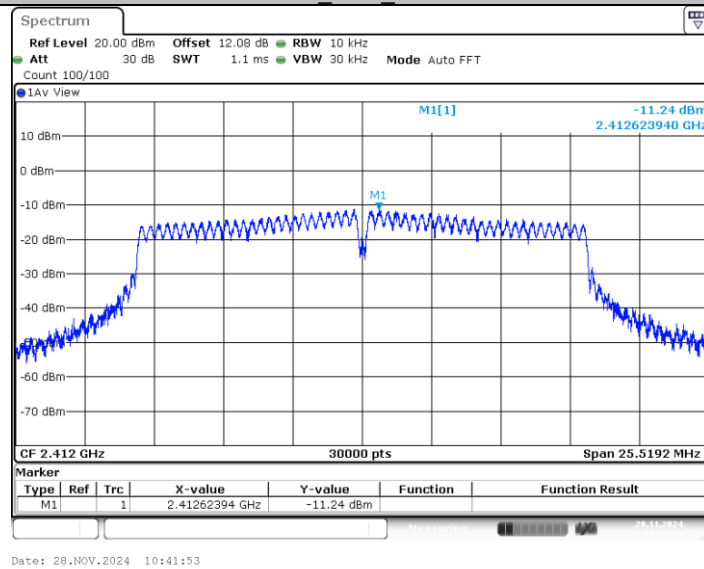


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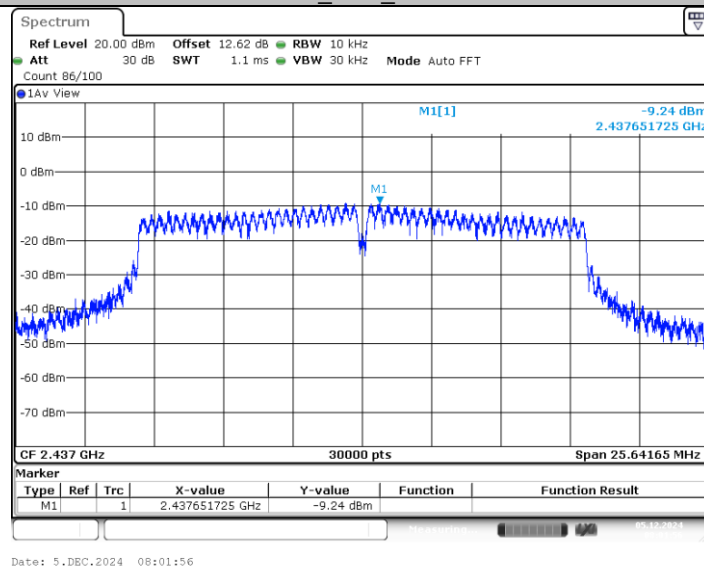
11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



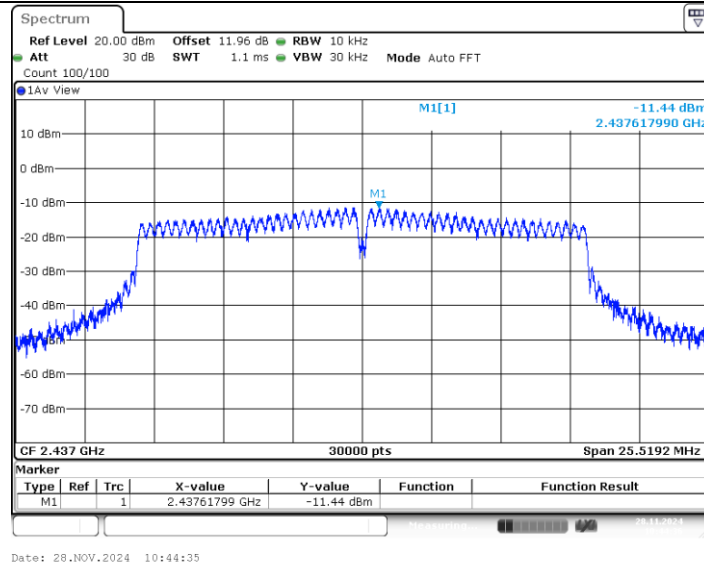
11G_Ant2_2437

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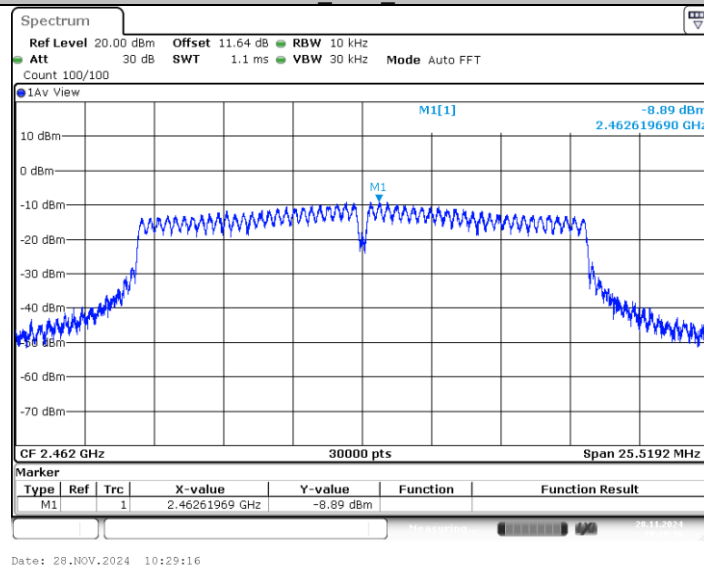
Room 101 Building B, No. 7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A1

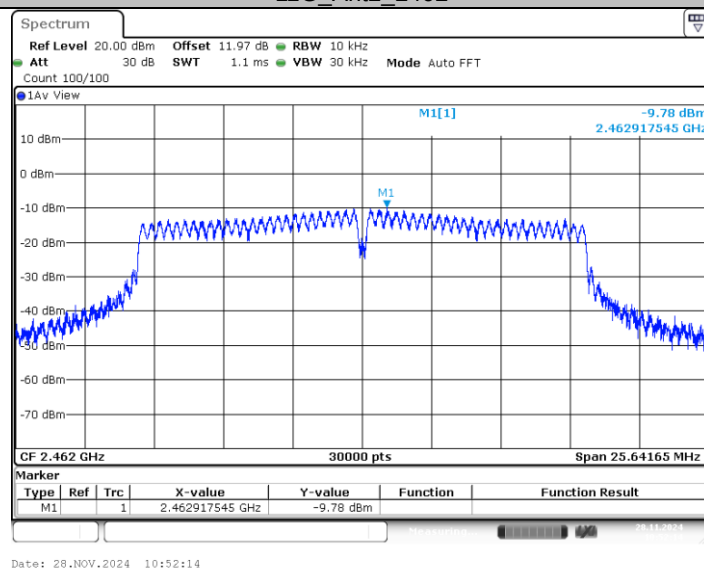
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11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412

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