

**Test Result**

Test Mode	Antenna	Freq (MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	15.70	≤23.98	PASS
	Ant2	5180	15.29	≤23.98	PASS
	Ant1	5200	16.08	≤23.98	PASS
	Ant2	5200	15.07	≤23.98	PASS
	Ant1	5240	15.44	≤23.98	PASS
	Ant2	5240	14.97	≤23.98	PASS
	Ant1	5260	15.21	≤23.98	PASS
	Ant2	5260	14.14	≤23.98	PASS
	Ant1	5280	14.98	≤23.98	PASS
	Ant2	5280	13.91	≤23.98	PASS
	Ant1	5320	13.86	≤23.98	PASS
	Ant2	5320	12.12	≤23.98	PASS
	Ant1	5500	12.11	≤23.98	PASS
	Ant2	5500	12.56	≤23.98	PASS
	Ant1	5580	13.45	≤23.98	PASS
	Ant2	5580	15.33	≤23.98	PASS
	Ant1	5700	14.34	≤23.98	PASS
	Ant2	5700	16.23	≤23.98	PASS
	Ant1	5745	14.58	≤30.00	PASS
	Ant2	5745	17.11	≤30.00	PASS
	Ant1	5785	14.10	≤30.00	PASS
	Ant2	5785	17.59	≤30.00	PASS
	Ant1	5825	13.94	≤30.00	PASS
	Ant2	5825	18.16	≤30.00	PASS
11N20MIMO	Ant1	5180	13.36	≤21.85	PASS
	Ant2	5180	13.95	≤21.85	PASS
	total	5180	16.68	≤21.85	PASS
	Ant1	5200	13.61	≤21.85	PASS
	Ant2	5200	13.80	≤21.85	PASS
	total	5200	16.72	≤21.85	PASS
	Ant1	5240	12.58	≤21.85	PASS
	Ant2	5240	13.40	≤21.85	PASS
	total	5240	16.02	≤21.85	PASS
	Ant1	5260	12.35	≤21.85	PASS
	Ant2	5260	12.44	≤21.85	PASS
	total	5260	15.41	≤21.85	PASS
	Ant1	5280	12.71	≤21.85	PASS
	Ant2	5280	12.11	≤21.85	PASS
	total	5280	15.43	≤21.85	PASS
	Ant1	5320	12.63	≤21.85	PASS
	Ant2	5320	11.45	≤21.85	PASS
	total	5320	15.09	≤21.85	PASS
	Ant1	5500	8.93	≤21.85	PASS
	Ant2	5500	10.43	≤21.85	PASS
	total	5500	12.75	≤21.85	PASS
	Ant1	5580	10.94	≤21.85	PASS
	Ant2	5580	14.03	≤21.85	PASS
	total	5580	15.76	≤21.85	PASS
	Ant1	5700	10.70	≤21.85	PASS
	Ant2	5700	13.99	≤21.85	PASS
	total	5700	15.66	≤21.85	PASS
	Ant1	5745	13.43	≤27.87	PASS
	Ant2	5745	16.12	≤27.87	PASS
	total	5745	17.99	≤27.87	PASS
	Ant1	5785	12.77	≤27.87	PASS
	Ant2	5785	15.45	≤27.87	PASS
	total	5785	17.32	≤27.87	PASS
	Ant1	5825	12.87	≤27.87	PASS
	Ant2	5825	16.84	≤27.87	PASS
	total	5825	18.30	≤27.87	PASS
11N40MIMO	Ant1	5190	11.73	≤21.85	PASS

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	Ant2	5190	12.11	≤21.85	PASS
	total	5190	14.93	≤21.85	PASS
	Ant1	5230	12.80	≤21.85	PASS
	Ant2	5230	11.98	≤21.85	PASS
	total	5230	15.42	≤21.85	PASS
	Ant1	5270	12.46	≤21.85	PASS
	Ant2	5270	12.27	≤21.85	PASS
	total	5270	15.38	≤21.85	PASS
	Ant1	5310	9.70	≤21.85	PASS
	Ant2	5310	8.94	≤21.85	PASS
	total	5310	12.35	≤21.85	PASS
	Ant1	5510	7.09	≤21.85	PASS
	Ant2	5510	8.54	≤21.85	PASS
	total	5510	10.89	≤21.85	PASS
	Ant1	5550	10.41	≤21.85	PASS
	Ant2	5550	12.90	≤21.85	PASS
	total	5550	14.84	≤21.85	PASS
	Ant1	5670	11.63	≤21.85	PASS
	Ant2	5670	13.75	≤21.85	PASS
	total	5670	15.83	≤21.85	PASS
	Ant1	5755	12.62	≤27.87	PASS
	Ant2	5755	15.23	≤27.87	PASS
	total	5755	17.13	≤27.87	PASS
	Ant1	5795	12.77	≤27.87	PASS
	Ant2	5795	15.49	≤27.87	PASS
	total	5795	17.35	≤27.87	PASS
11AC20MIMO	Ant1	5180	13.21	≤21.85	PASS
	Ant2	5180	13.82	≤21.85	PASS
	total	5180	16.54	≤21.85	PASS
	Ant1	5200	13.07	≤21.85	PASS
	Ant2	5200	13.37	≤21.85	PASS
	total	5200	16.23	≤21.85	PASS
	Ant1	5240	12.17	≤21.85	PASS
	Ant2	5240	13.57	≤21.85	PASS
	total	5240	15.94	≤21.85	PASS
	Ant1	5260	12.10	≤21.85	PASS
	Ant2	5260	12.25	≤21.85	PASS
	total	5260	15.19	≤21.85	PASS
	Ant1	5280	11.98	≤21.85	PASS
	Ant2	5280	11.71	≤21.85	PASS
	total	5280	14.86	≤21.85	PASS
	Ant1	5320	11.14	≤21.85	PASS
	Ant2	5320	10.39	≤21.85	PASS
	total	5320	13.79	≤21.85	PASS
	Ant1	5500	7.96	≤21.85	PASS
	Ant2	5500	9.50	≤21.85	PASS
	total	5500	11.81	≤21.85	PASS
	Ant1	5580	10.58	≤21.85	PASS
	Ant2	5580	13.44	≤21.85	PASS
	total	5580	15.25	≤21.85	PASS
	Ant1	5700	10.12	≤21.85	PASS
	Ant2	5700	13.53	≤21.85	PASS
	total	5700	15.16	≤21.85	PASS
	Ant1	5745	12.66	≤27.87	PASS
	Ant2	5745	15.35	≤27.87	PASS
	total	5745	17.22	≤27.87	PASS
	Ant1	5785	12.74	≤27.87	PASS
	Ant2	5785	16.09	≤27.87	PASS
	total	5785	17.74	≤27.87	PASS
	Ant1	5825	12.63	≤27.87	PASS
	Ant2	5825	16.60	≤27.87	PASS
	total	5825	18.06	≤27.87	PASS
11AC40MIMO	Ant1	5190	11.34	≤21.85	PASS
	Ant2	5190	11.72	≤21.85	PASS
	total	5190	14.54	≤21.85	PASS

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	Ant1	5230	12.62	≤21.85	PASS
	Ant2	5230	13.35	≤21.85	PASS
	total	5230	16.01	≤21.85	PASS
	Ant1	5270	12.19	≤21.85	PASS
	Ant2	5270	12.01	≤21.85	PASS
	total	5270	15.11	≤21.85	PASS
	Ant1	5310	9.28	≤21.85	PASS
	Ant2	5310	8.62	≤21.85	PASS
	total	5310	11.97	≤21.85	PASS
	Ant1	5510	6.73	≤21.85	PASS
	Ant2	5510	8.22	≤21.85	PASS
	total	5510	10.55	≤21.85	PASS
	Ant1	5550	10.17	≤21.85	PASS
	Ant2	5550	12.76	≤21.85	PASS
	total	5550	14.67	≤21.85	PASS
	Ant1	5670	11.71	≤21.85	PASS
	Ant2	5670	13.81	≤21.85	PASS
	total	5670	15.90	≤21.85	PASS
	Ant1	5755	12.34	≤27.87	PASS
	Ant2	5755	15.06	≤27.87	PASS
	total	5755	16.92	≤27.87	PASS
	Ant1	5795	12.58	≤27.87	PASS
	Ant2	5795	15.40	≤27.87	PASS
	total	5795	17.23	≤21.85	PASS
11AC80MIMO	Ant1	5210	10.10	≤21.85	PASS
	Ant2	5210	10.71	≤21.85	PASS
	total	5210	13.43	≤21.85	PASS
	Ant1	5290	9.01	≤21.85	PASS
	Ant2	5290	8.32	≤21.85	PASS
	total	5290	11.69	≤21.85	PASS
	Ant1	5530	6.69	≤21.85	PASS
	Ant2	5530	8.24	≤21.85	PASS
	total	5530	10.54	≤21.85	PASS
	Ant1	5610	10.81	≤21.85	PASS
	Ant2	5610	13.32	≤21.85	PASS
	total	5610	15.25	≤21.85	PASS
	Ant1	5775	12.41	≤27.87	PASS
	Ant2	5775	14.69	≤27.87	PASS
	total	5775	16.71	≤27.87	PASS



3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.47~5.725GHz band:

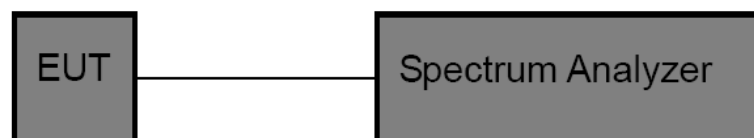
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{Tx} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G_{Tx} : EUT Antenna gain.

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) (alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz

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RBW=500kHz for devices operating in the band 5.725-5.85 GHz.

(5) Set the VBW to: ≥ 3 RBW

(6) Detector: AVG

(7) Trace: Max Hold and View

(7) Sweep time: auto

(8) Trace average at least 100 traces in power averaging.

(9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

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	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.28	≤ 11.00	PASS
	Ant2	5180	3.70	≤ 11.00	PASS
	Ant1	5200	4.89	≤ 11.00	PASS
	Ant2	5200	3.87	≤ 11.00	PASS
	Ant1	5240	3.87	≤ 11.00	PASS
	Ant2	5240	3.62	≤ 11.00	PASS
	Ant1	5260	3.96	≤ 11.00	PASS
	Ant2	5260	2.91	≤ 11.00	PASS
	Ant1	5280	3.62	≤ 11.00	PASS
	Ant2	5280	2.42	≤ 11.00	PASS
	Ant1	5320	2.68	≤ 11.00	PASS
	Ant2	5320	0.79	≤ 11.00	PASS
	Ant1	5500	0.85	≤ 11.00	PASS
	Ant2	5500	0.93	≤ 11.00	PASS
	Ant1	5580	2.21	≤ 11.00	PASS
	Ant2	5580	4.04	≤ 11.00	PASS
	Ant1	5700	2.99	≤ 11.00	PASS
	Ant2	5700	5.01	≤ 11.00	PASS
	Ant1	5745	0.26	≤ 30.00	PASS
	Ant2	5745	2.70	≤ 30.00	PASS
	Ant1	5785	0.10	≤ 30.00	PASS
	Ant2	5785	3.68	≤ 30.00	PASS
	Ant1	5825	-0.11	≤ 30.00	PASS
	Ant2	5825	3.94	≤ 30.00	PASS
11N20MIMO	Ant1	5180	1.79	≤ 11.00	PASS
	Ant2	5180	2.08	≤ 11.00	PASS
	total	5180	4.95	≤ 11.00	PASS
	Ant1	5200	1.17	≤ 11.00	PASS
	Ant2	5200	1.75	≤ 11.00	PASS
	total	5200	4.48	≤ 11.00	PASS
	Ant1	5240	0.83	≤ 11.00	PASS
	Ant2	5240	1.87	≤ 11.00	PASS
	total	5240	4.39	≤ 11.00	PASS
	Ant1	5260	0.66	≤ 11.00	PASS
	Ant2	5260	0.99	≤ 11.00	PASS
	total	5260	3.84	≤ 11.00	PASS
	Ant1	5280	0.63	≤ 11.00	PASS
	Ant2	5280	0.68	≤ 11.00	PASS
	total	5280	3.67	≤ 11.00	PASS
	Ant1	5320	-0.26	≤ 11.00	PASS
	Ant2	5320	-1.05	≤ 11.00	PASS
	total	5320	2.37	≤ 11.00	PASS
	Ant1	5500	-3.73	≤ 11.00	PASS
	Ant2	5500	-2.10	≤ 11.00	PASS

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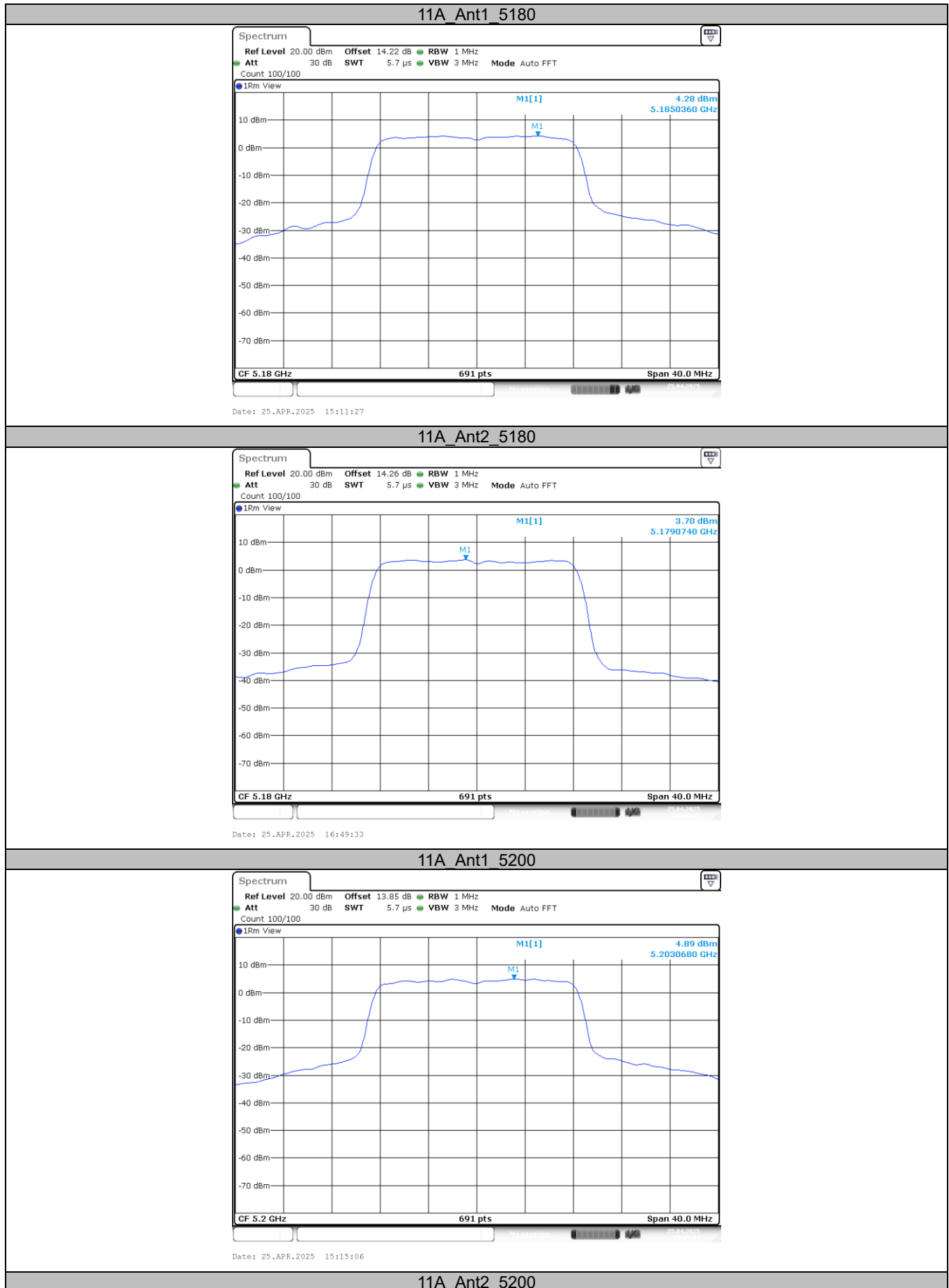
	total	5500	0.17	≤11.00	PASS
	Ant1	5580	-1.12	≤11.00	PASS
	Ant2	5580	1.89	≤11.00	PASS
	total	5580	3.65	≤11.00	PASS
	Ant1	5700	-1.22	≤11.00	PASS
	Ant2	5700	2.25	≤11.00	PASS
	total	5700	3.86	≤11.00	PASS
	Ant1	5745	-2.28	≤30.00	PASS
	Ant2	5745	0.77	≤30.00	PASS
	total	5745	2.52	≤30.00	PASS
	Ant1	5785	-1.52	≤30.00	PASS
	Ant2	5785	1.37	≤30.00	PASS
	total	5785	3.17	≤30.00	PASS
	Ant1	5825	-1.49	≤30.00	PASS
	Ant2	5825	2.18	≤30.00	PASS
11N40MIMO	total	5825	3.73	≤30.00	PASS
	Ant1	5190	-2.84	≤11.00	PASS
	Ant2	5190	-2.60	≤11.00	PASS
	total	5190	0.29	≤11.00	PASS
	Ant1	5230	-1.55	≤11.00	PASS
	Ant2	5230	-0.26	≤11.00	PASS
	total	5230	2.15	≤11.00	PASS
	Ant1	5270	-1.95	≤11.00	PASS
	Ant2	5270	-1.89	≤11.00	PASS
	total	5270	1.09	≤11.00	PASS
	Ant1	5310	-4.14	≤11.00	PASS
	Ant2	5310	-5.36	≤11.00	PASS
	total	5310	-1.70	≤11.00	PASS
	Ant1	5510	-7.40	≤11.00	PASS
	Ant2	5510	-5.98	≤11.00	PASS
	total	5510	-3.62	≤11.00	PASS
	Ant1	5550	-3.21	≤11.00	PASS
	Ant2	5550	-1.19	≤11.00	PASS
	total	5550	0.93	≤11.00	PASS
	Ant1	5670	-2.61	≤11.00	PASS
	Ant2	5670	-0.33	≤11.00	PASS
	total	5670	1.69	≤11.00	PASS
	Ant1	5755	-4.96	≤30.00	PASS
	Ant2	5755	-1.91	≤30.00	PASS
	total	5755	-0.16	≤30.00	PASS
11AC80MIMO	Ant1	5795	-4.32	≤30.00	PASS
	Ant2	5795	-1.55	≤30.00	PASS
	total	5795	0.29	≤30.00	PASS
	Ant1	5210	-6.70	≤11.00	PASS
	Ant2	5210	-5.95	≤11.00	PASS
	total	5210	-3.30	≤11.00	PASS
	Ant1	5290	-7.74	≤11.00	PASS
	Ant2	5290	-8.41	≤11.00	PASS
	total	5290	-5.05	≤11.00	PASS
	Ant1	5530	-9.84	≤11.00	PASS
	Ant2	5530	-8.22	≤11.00	PASS
	total	5530	-5.94	≤11.00	PASS
	Ant1	5610	-5.20	≤11.00	PASS
	Ant2	5610	-3.66	≤11.00	PASS
	total	5610	-1.35	≤11.00	PASS
	Ant1	5775	-7.13	≤30.00	PASS
	Ant2	5775	-4.97	≤30.00	PASS
	total	5775	-2.91	≤30.00	PASS

Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



Test plot as follows:

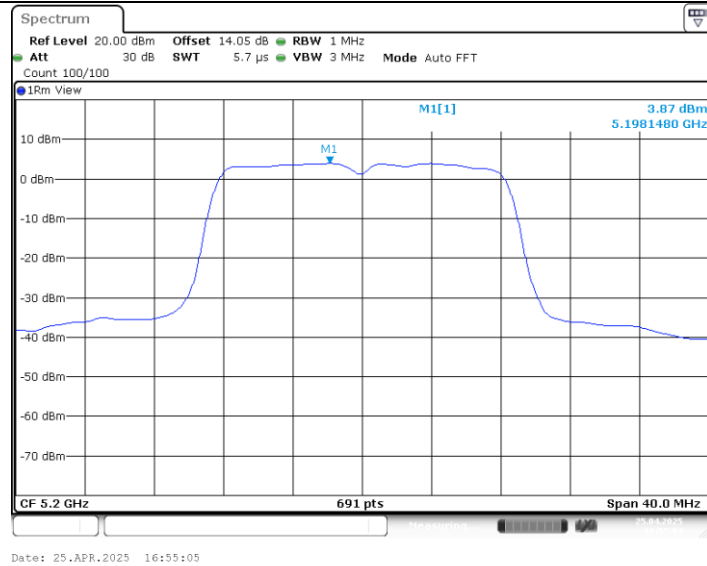


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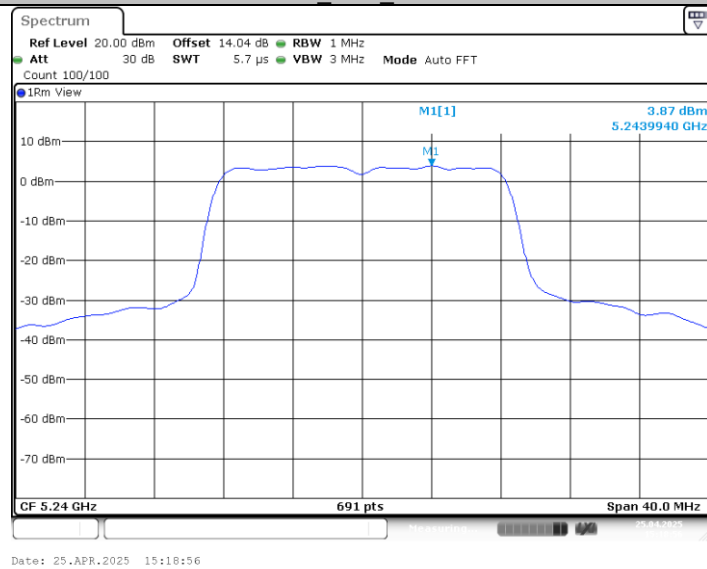
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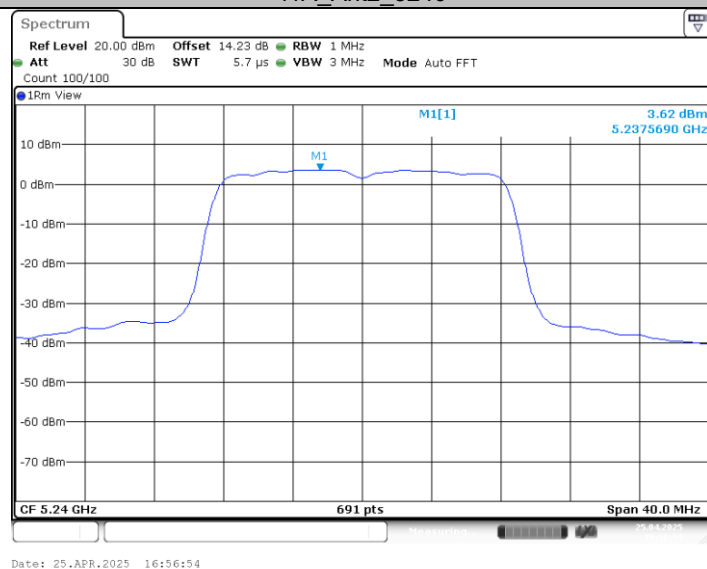
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11A_Ant1_5240



11A_Ant2_5240



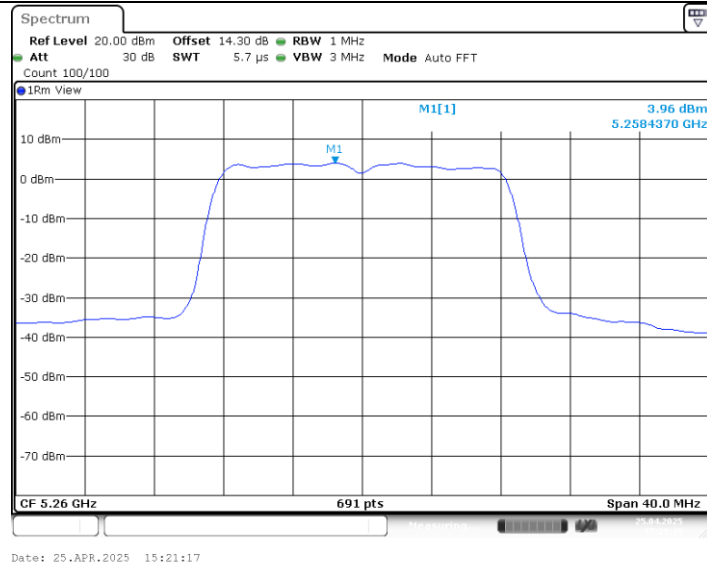
11A_Ant1_5260

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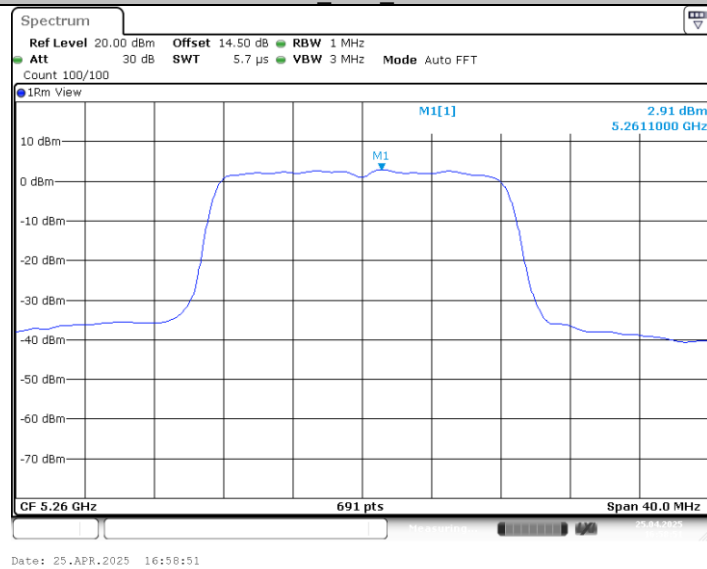
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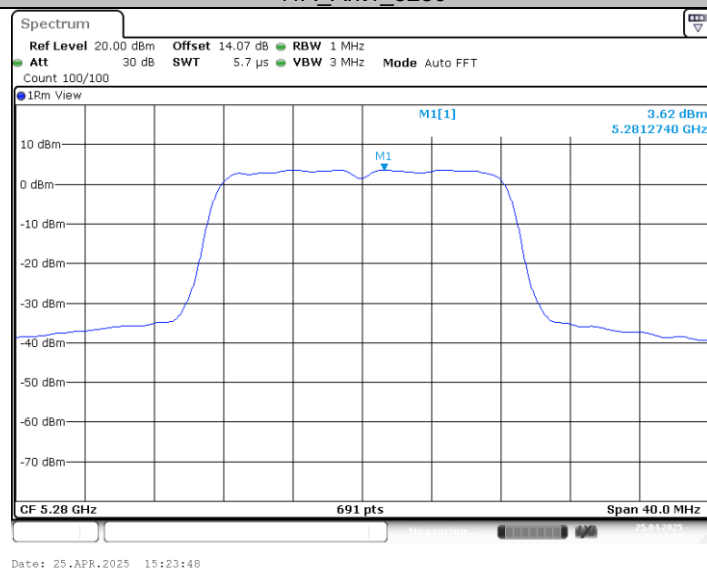
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11A_Ant2_5260



11A_Ant1_5280



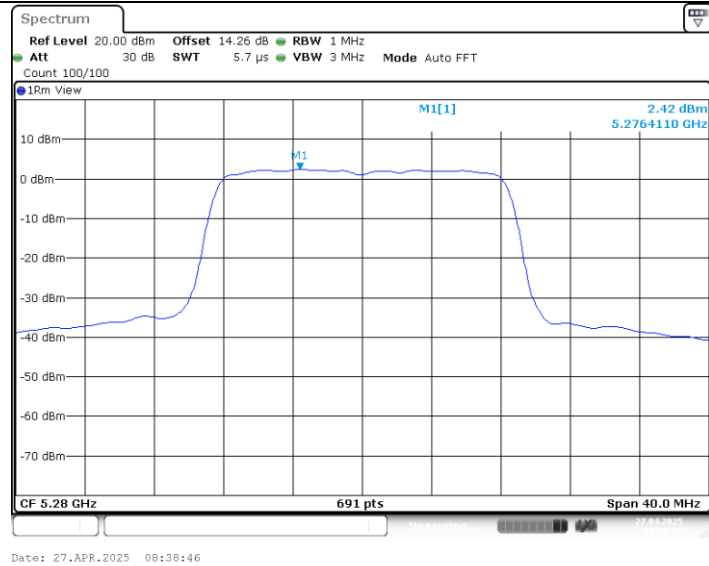
11A_Ant2_5280

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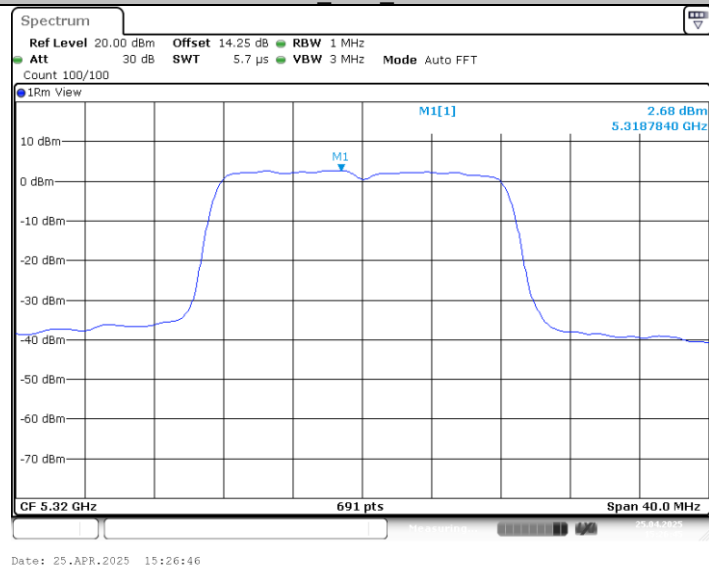
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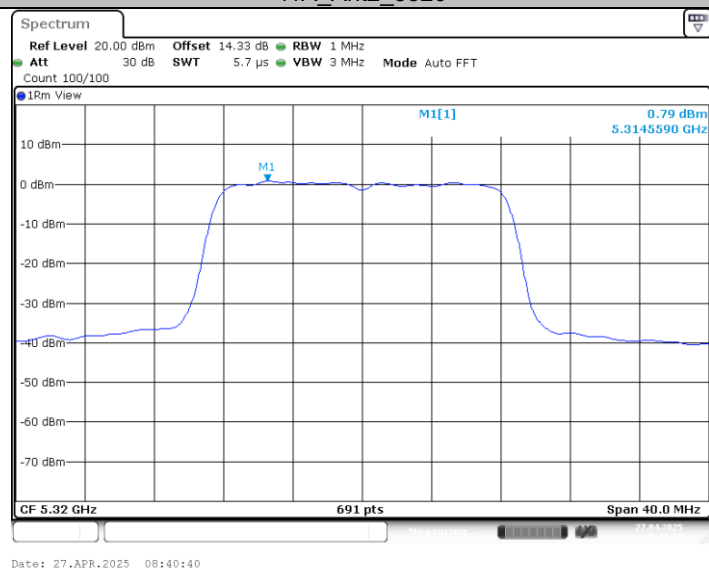
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11A_Ant1_5320



11A_Ant2_5320



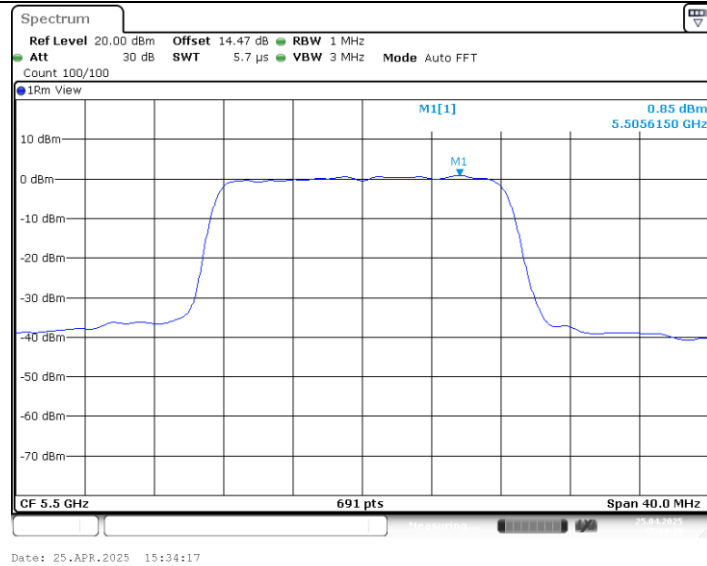
11A_Ant1_5500

CTC Laboratories, Inc.

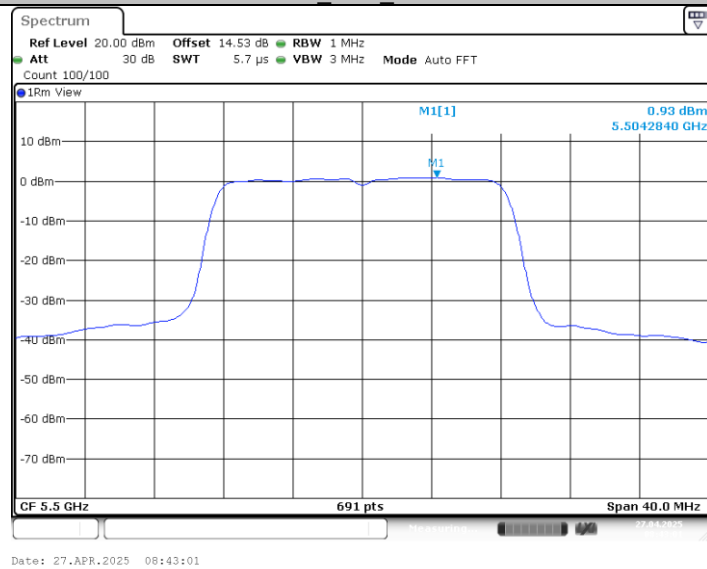
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

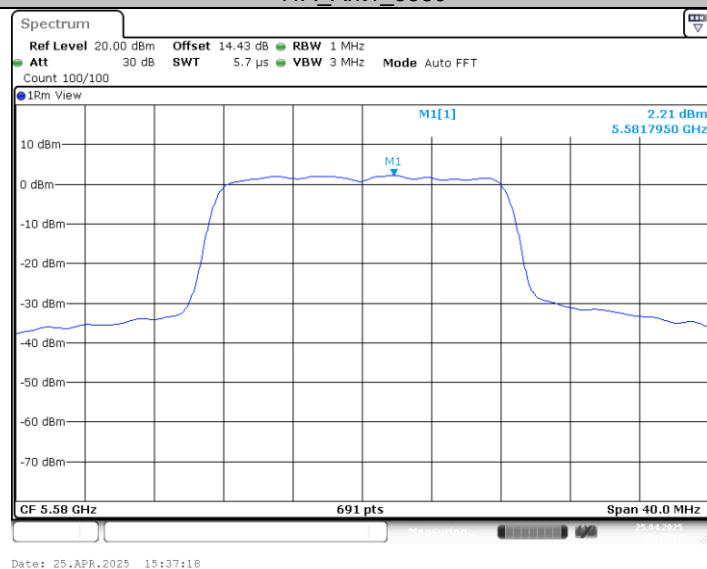
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11A_Ant2_5500



11A_Ant1_5580



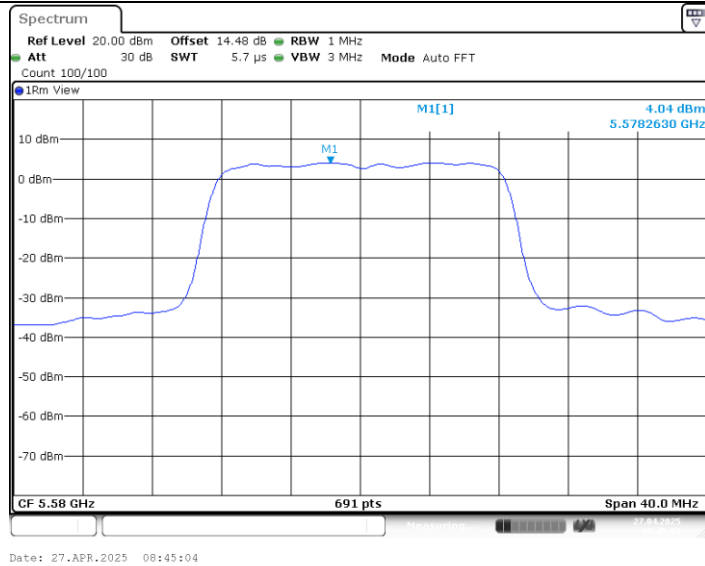
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CTC Laboratories, Inc.

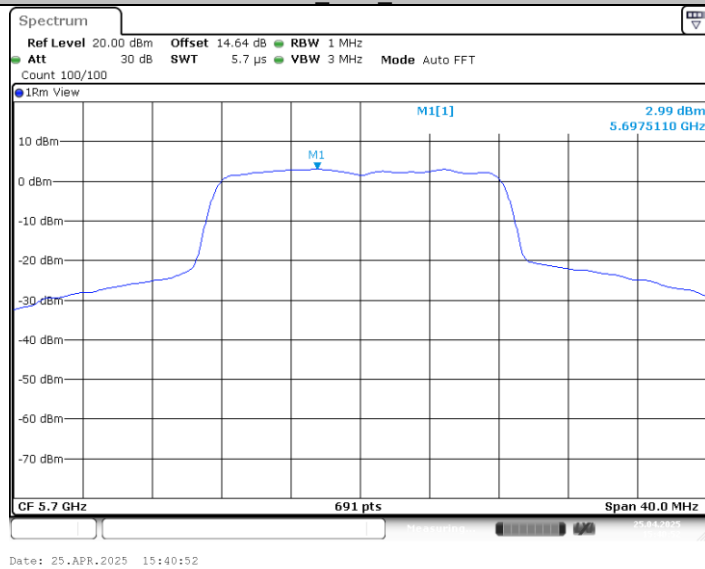
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

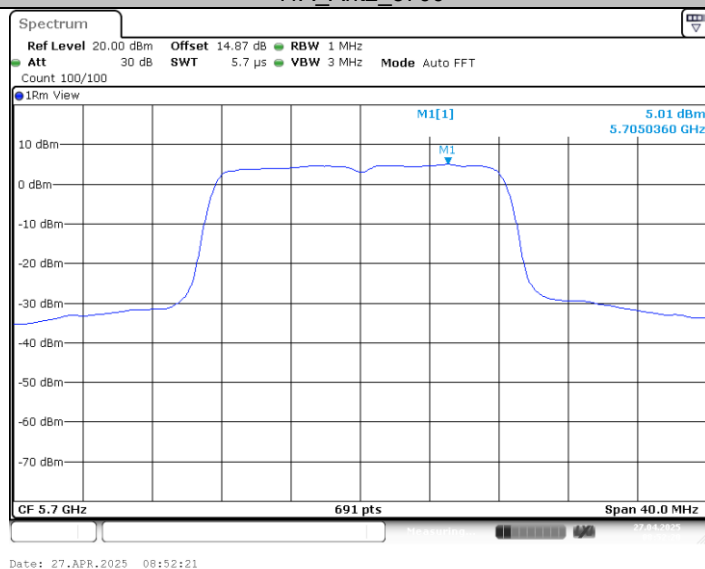
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11A_Ant1_5700



11A_Ant2_5700



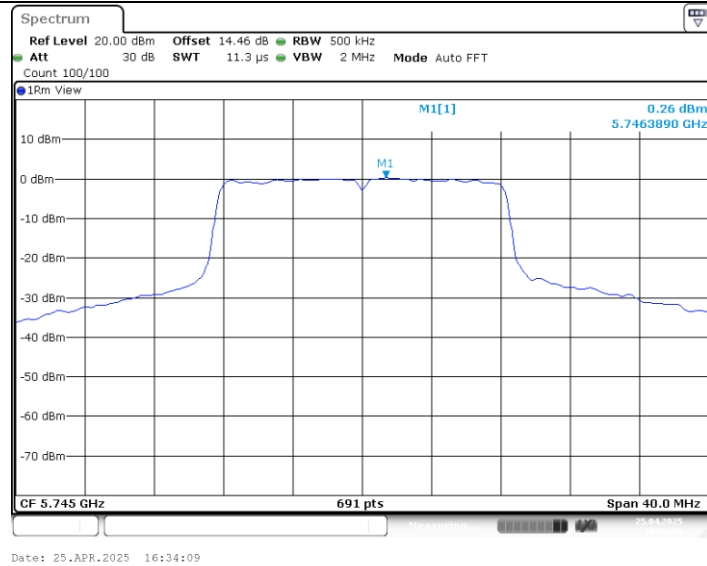
11A_Ant1_5745

CTC Laboratories, Inc.

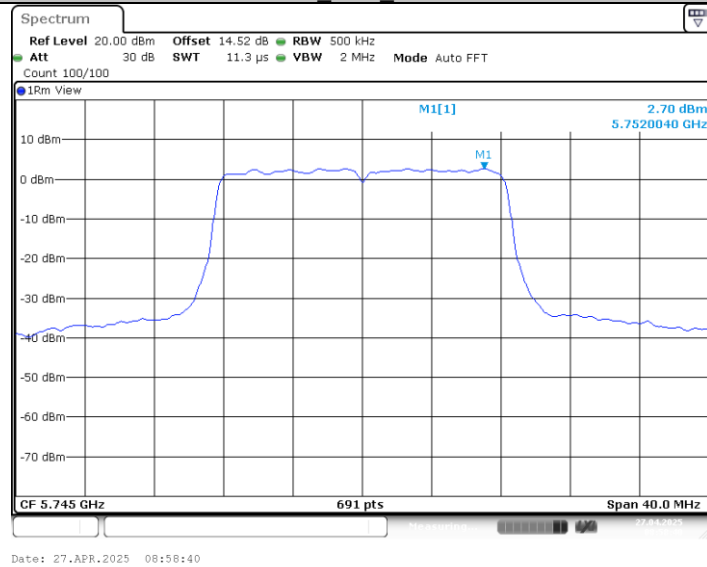
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

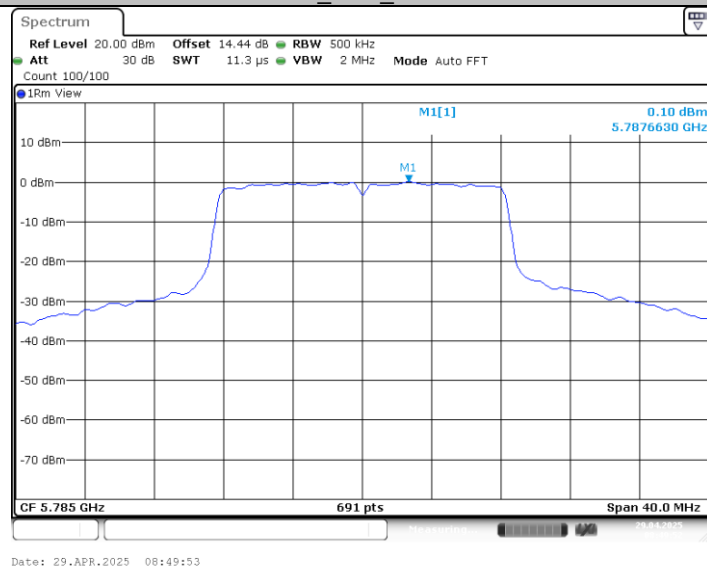
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11A_Ant2_5745



11A_Ant1_5785



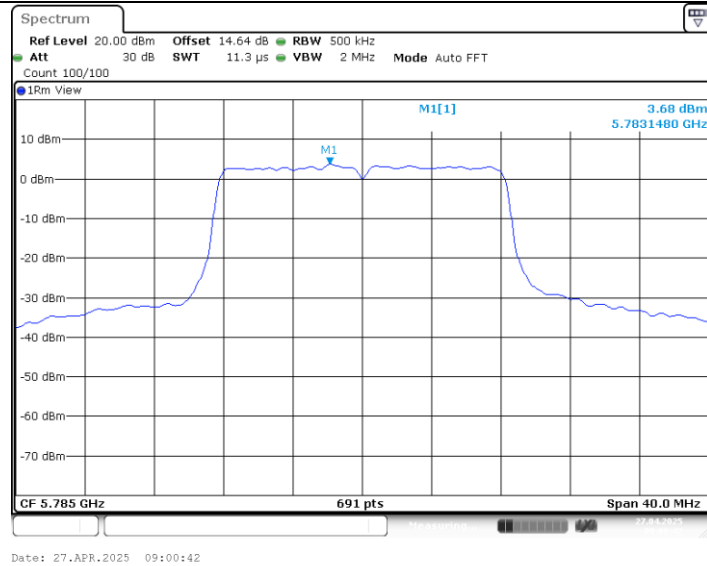
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CTC Laboratories, Inc.

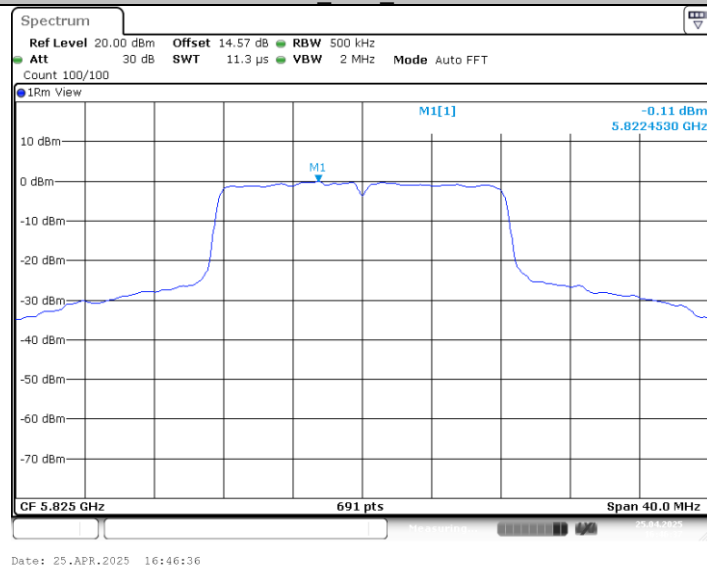
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

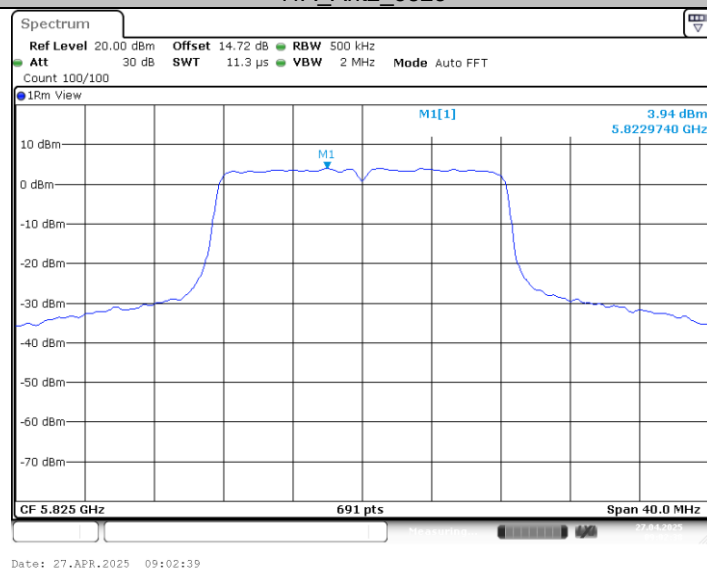
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11A_Ant1_5825



11A_Ant2_5825



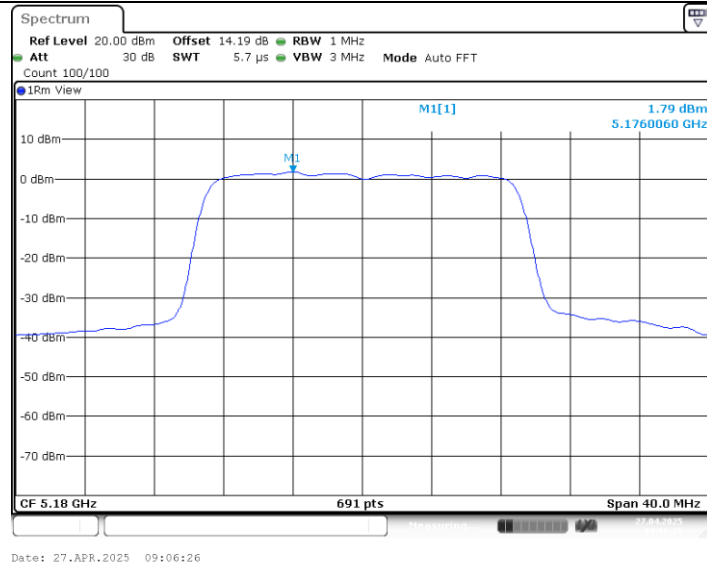
11N20MIMO_Ant1_5180

CTC Laboratories, Inc.

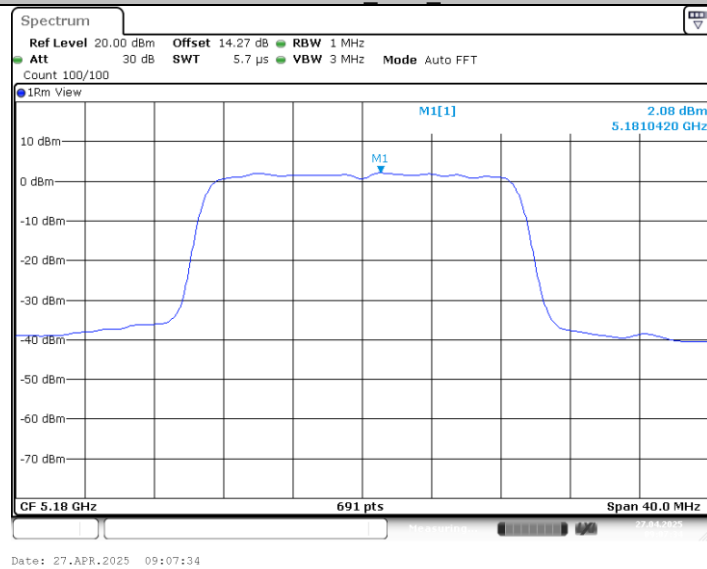
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

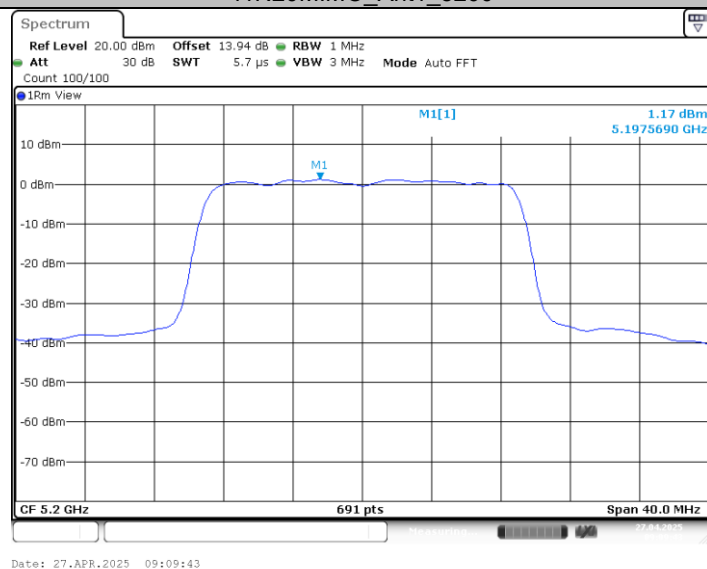
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



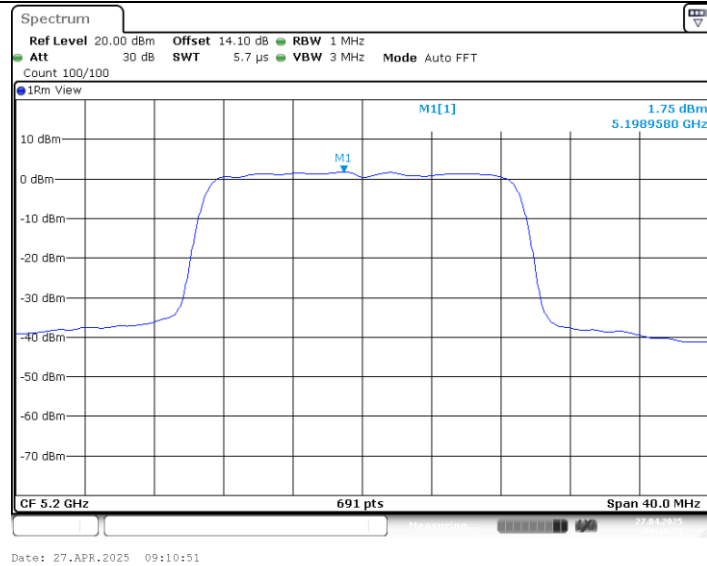
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CTC Laboratories, Inc.

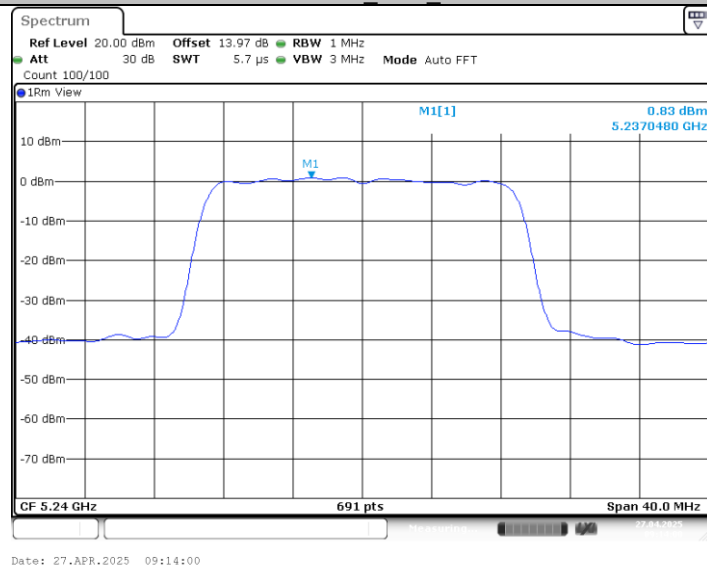
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

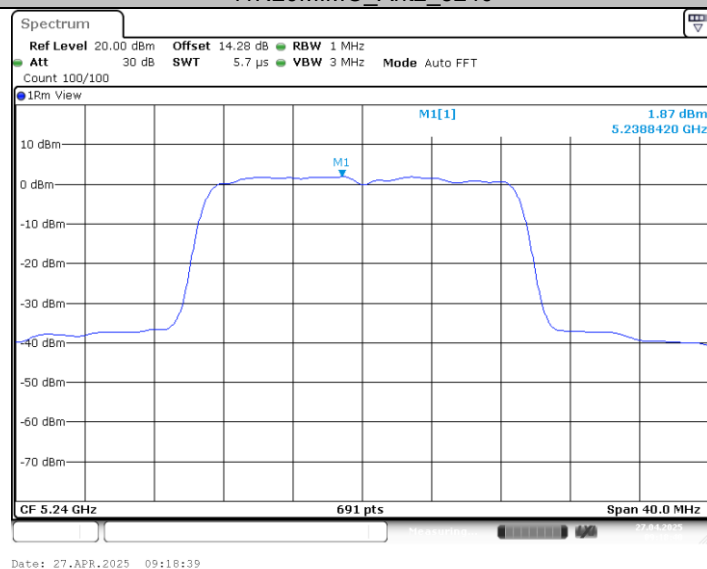
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



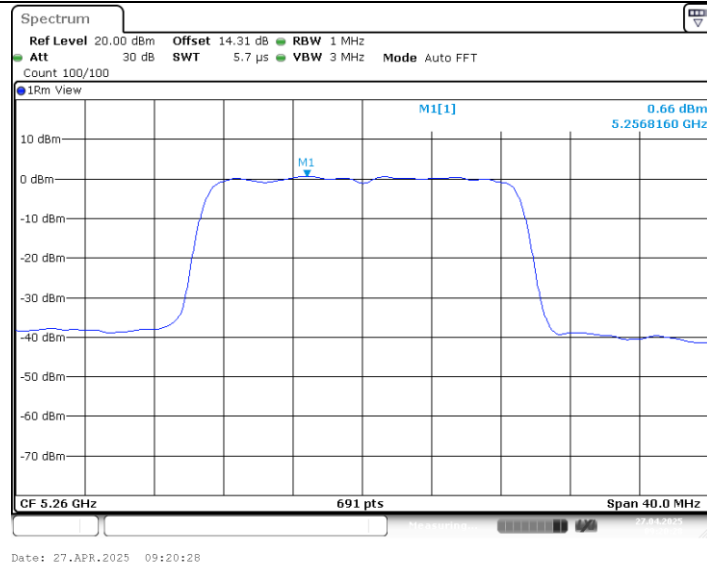
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CTC Laboratories, Inc.

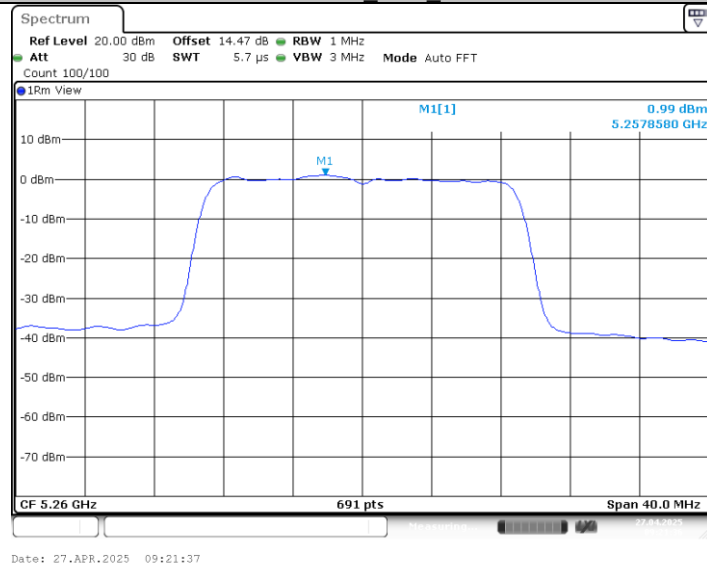
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

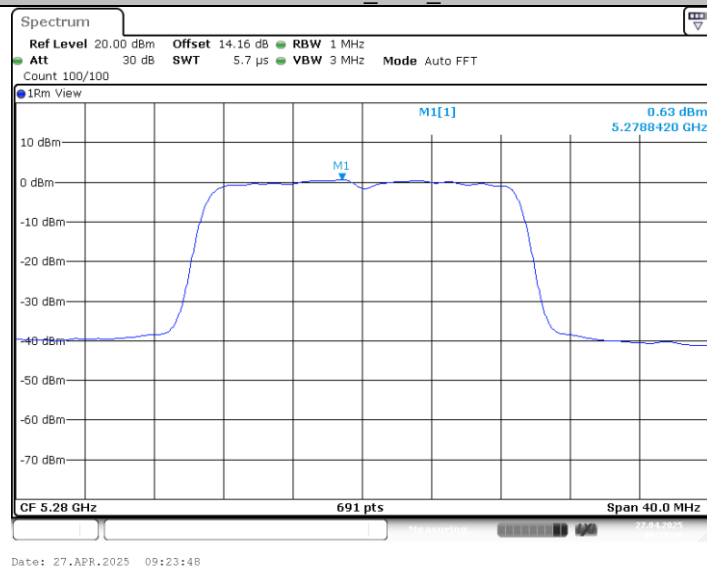
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



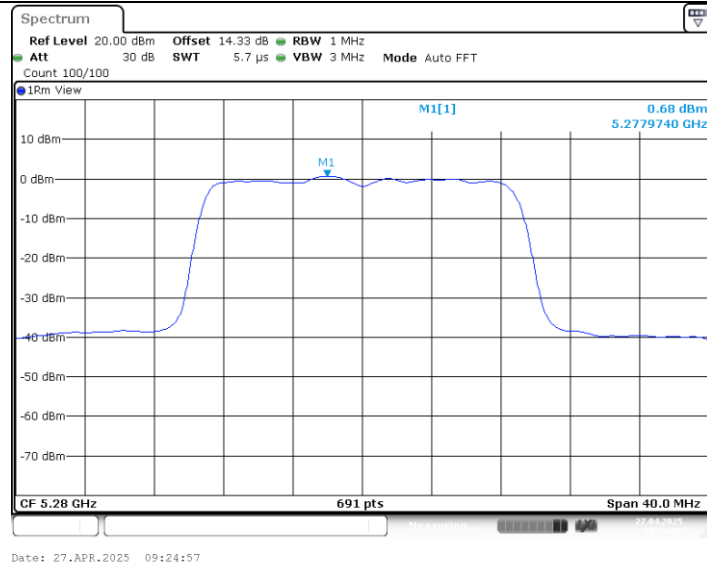
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CTC Laboratories, Inc.

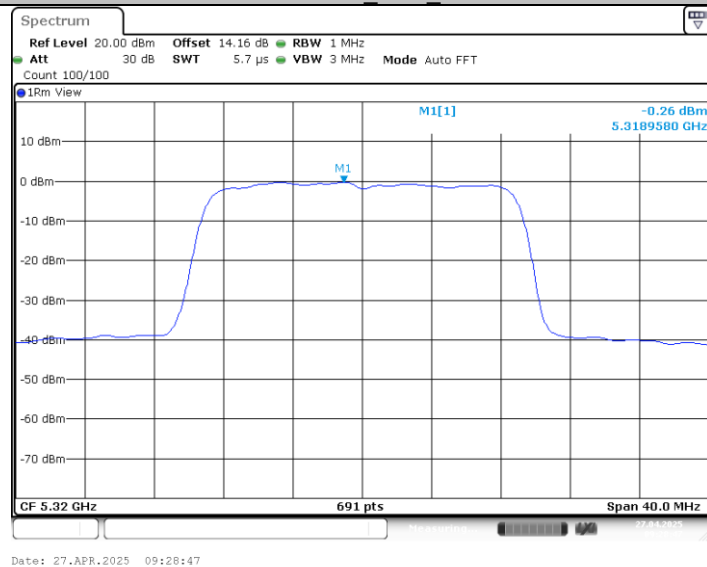
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

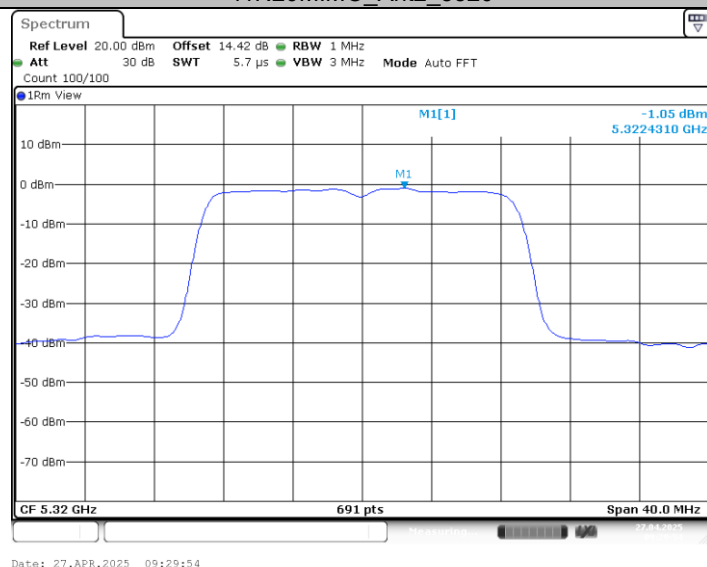
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11N20MIMO_Ant1_5320



11N20MIMO_Ant2_5320



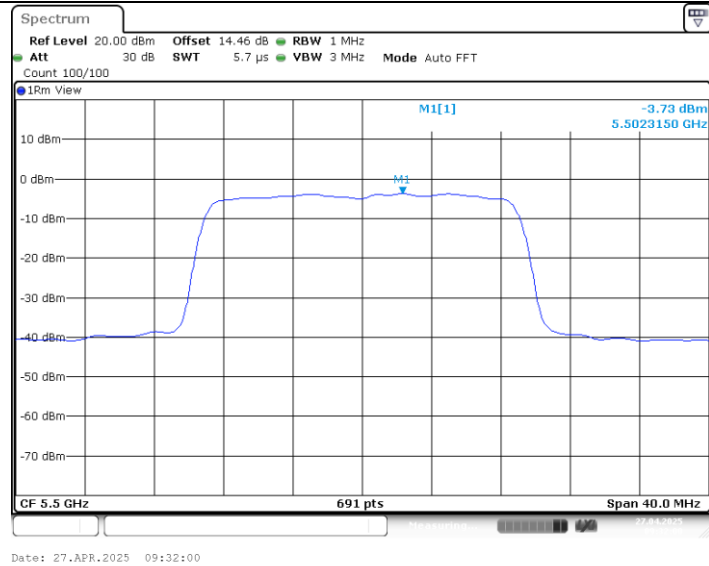
11N20MIMO_Ant1_5500

CTC Laboratories, Inc.

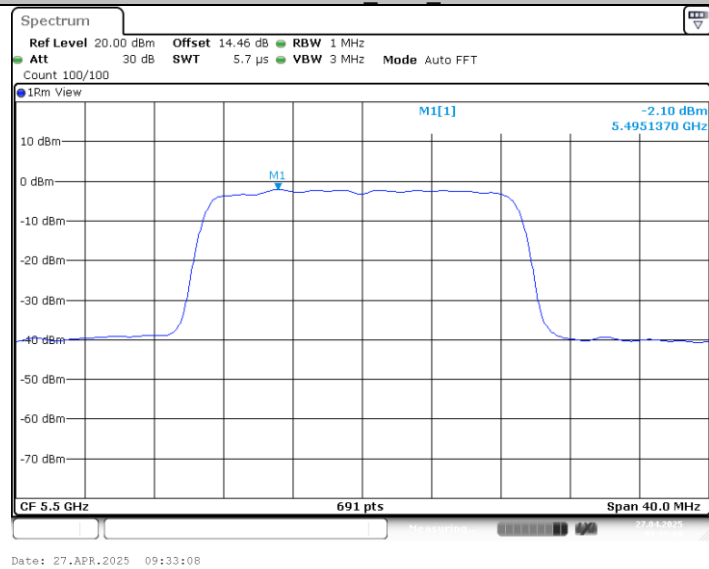
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

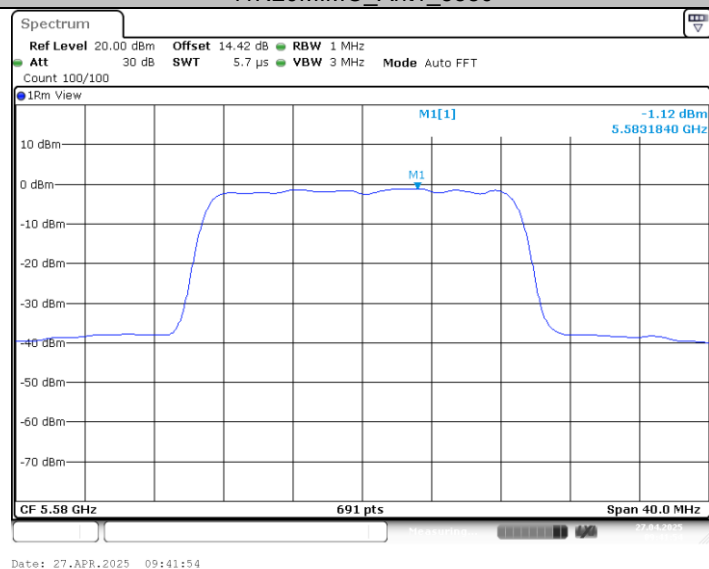
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



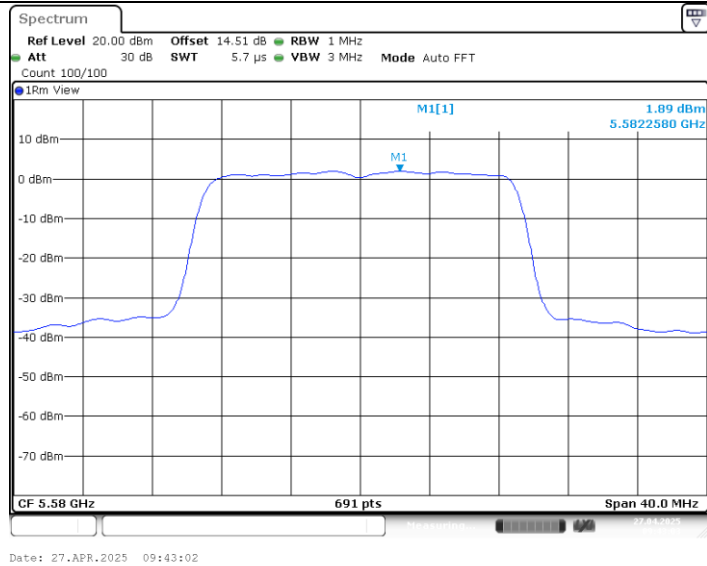
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CTC Laboratories, Inc.

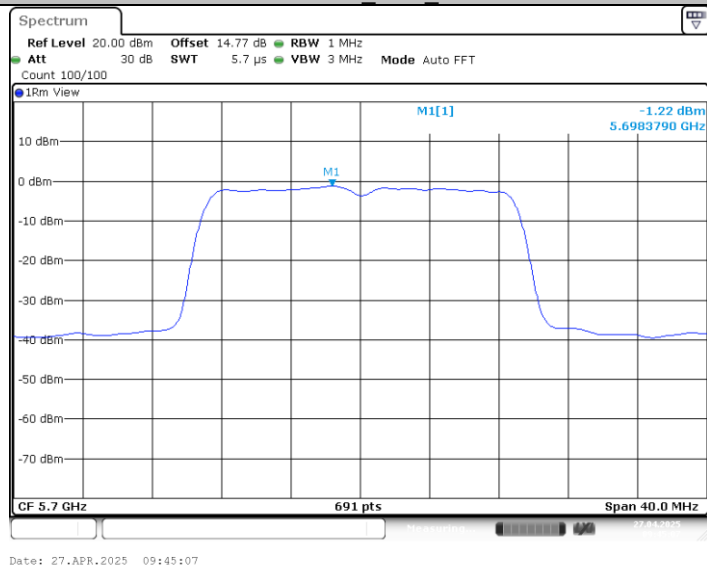
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

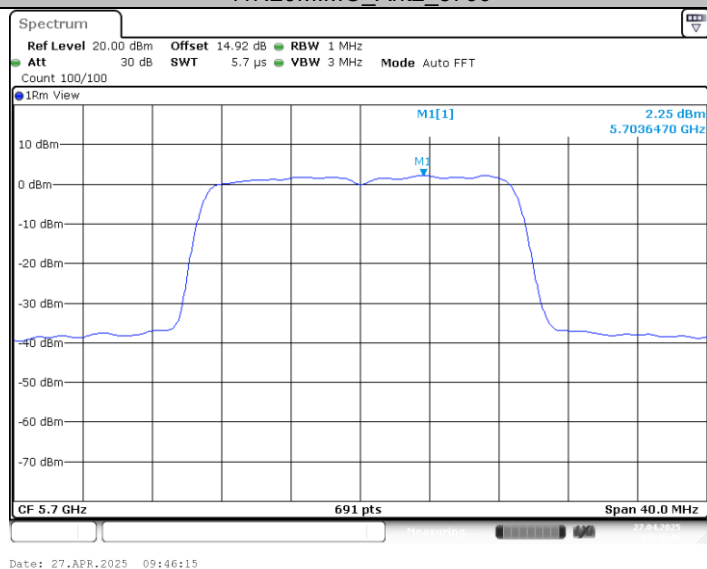
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



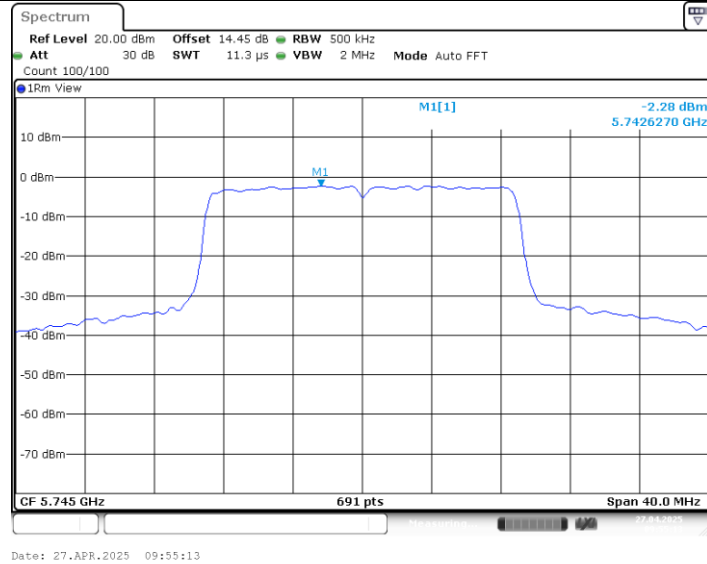
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CTC Laboratories, Inc.

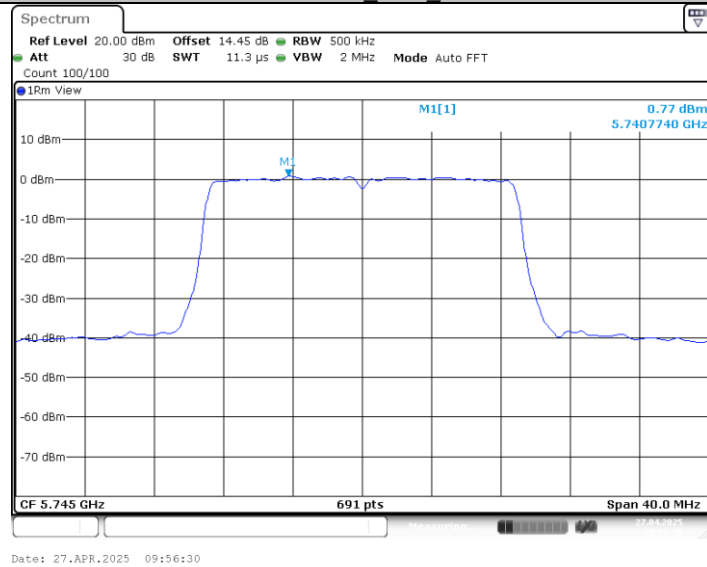
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

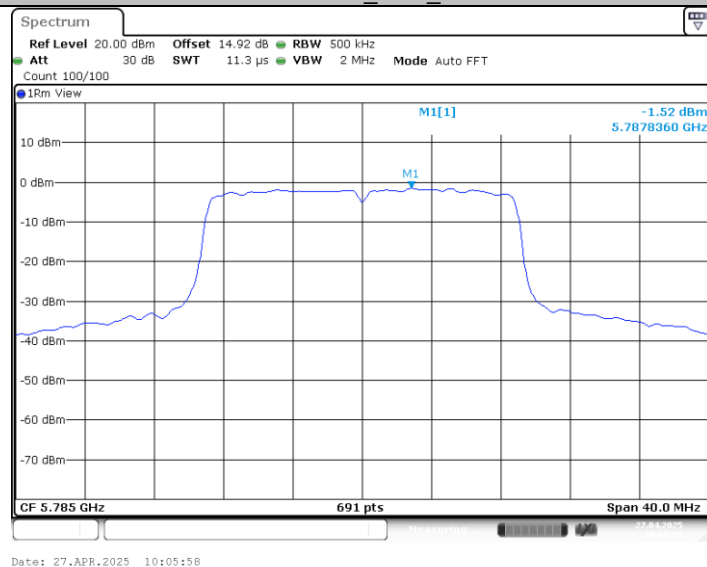
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



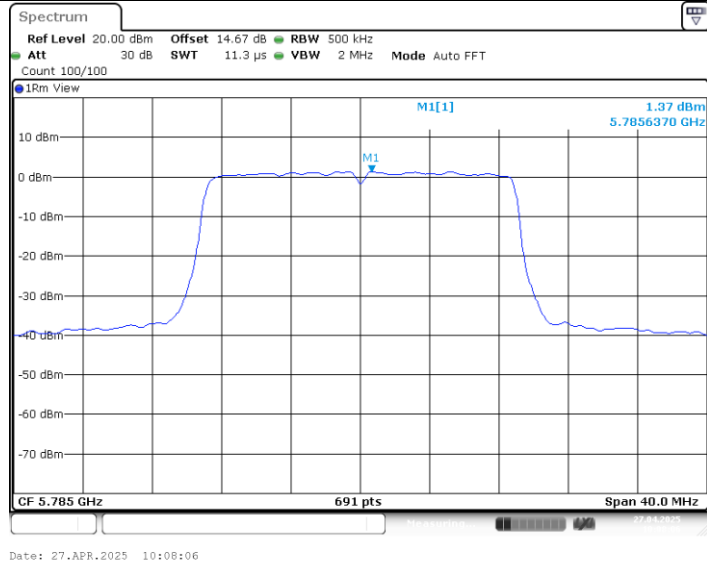
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CTC Laboratories, Inc.

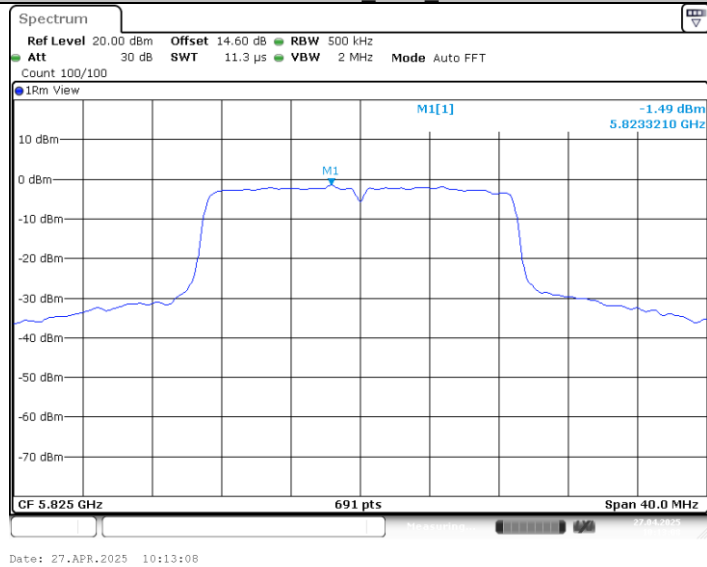
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

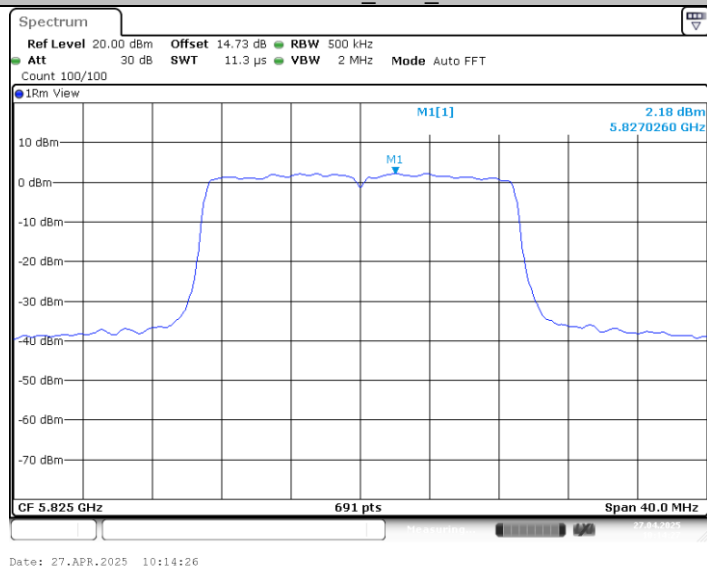
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



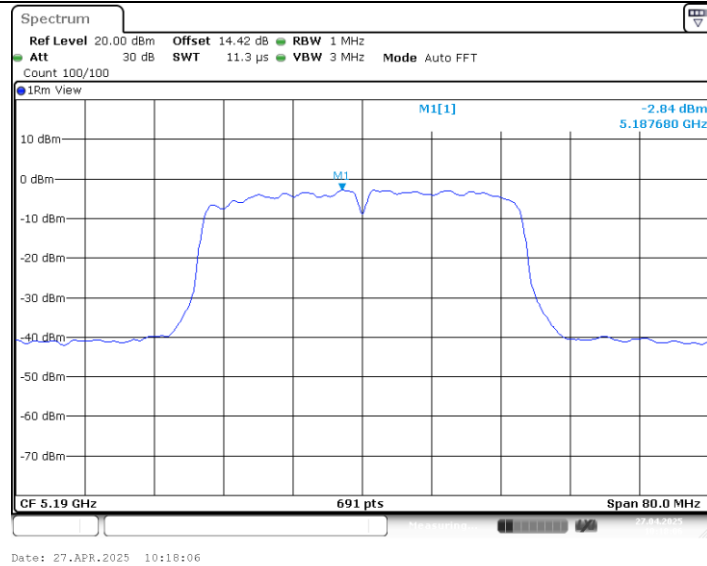
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CTC Laboratories, Inc.

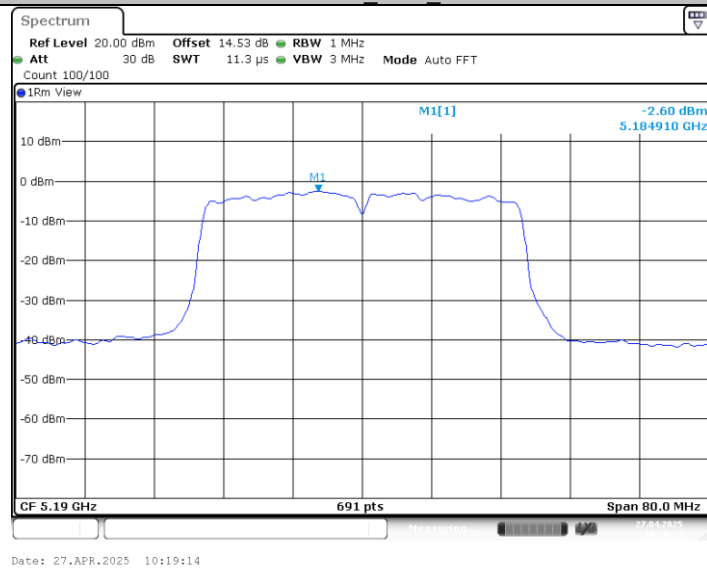
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

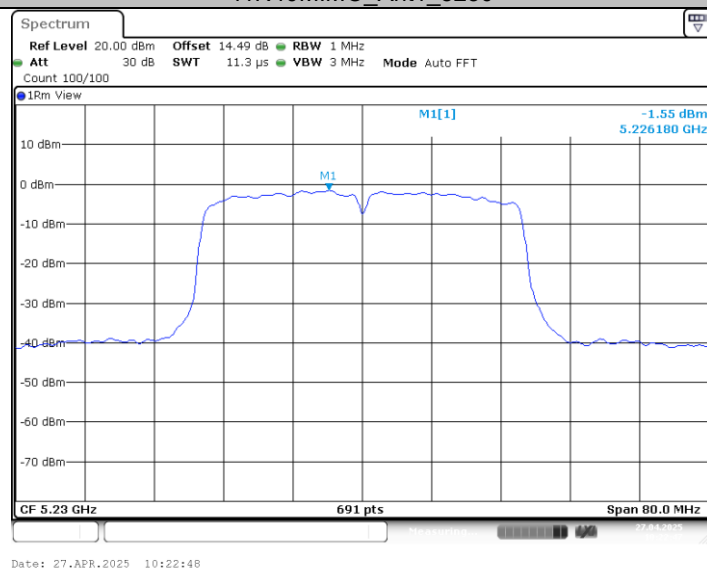
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



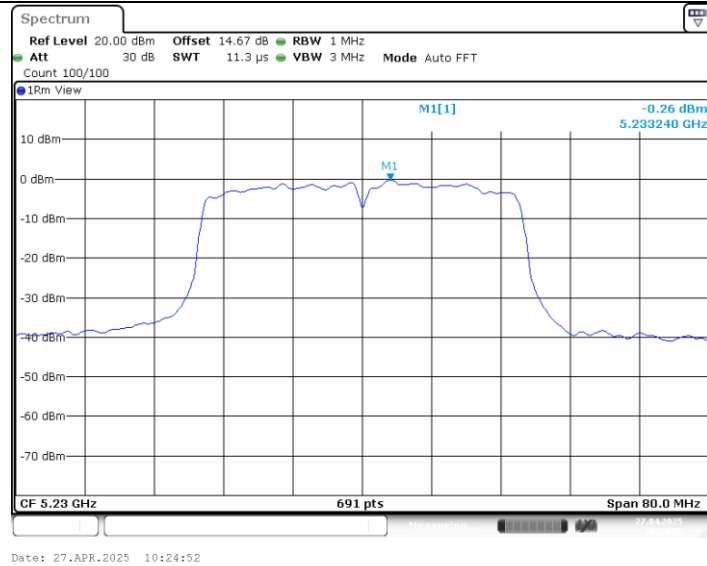
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CTC Laboratories, Inc.

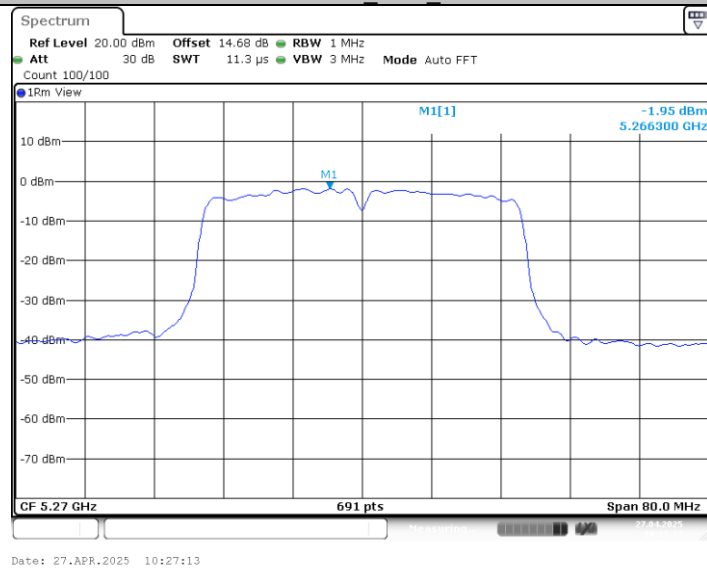
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

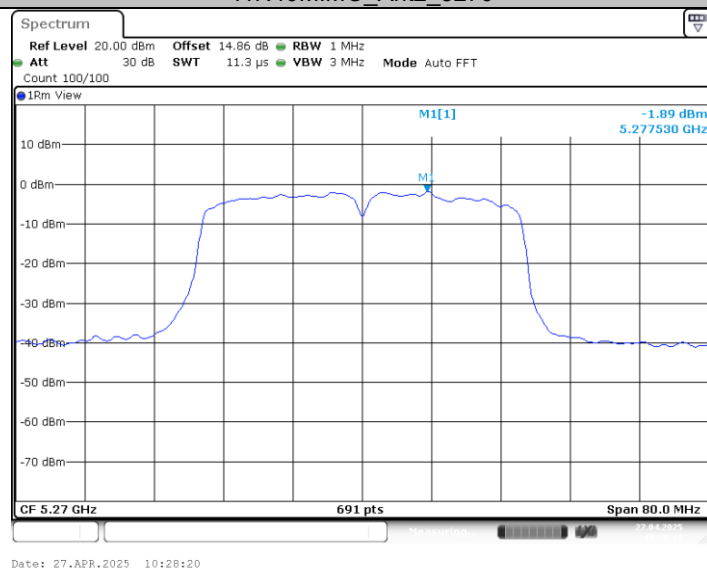
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270



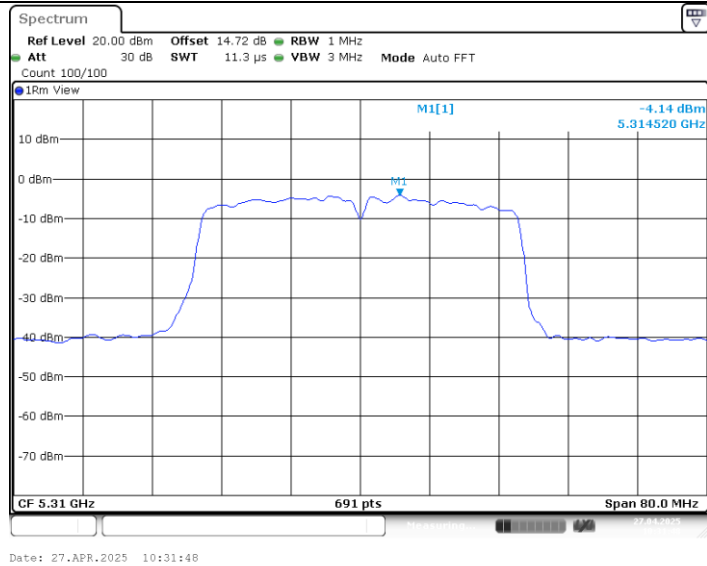
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CTC Laboratories, Inc.

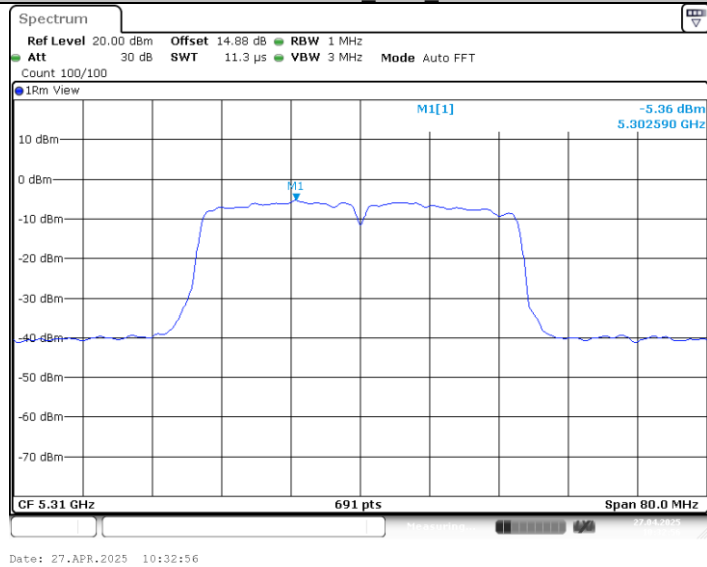
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

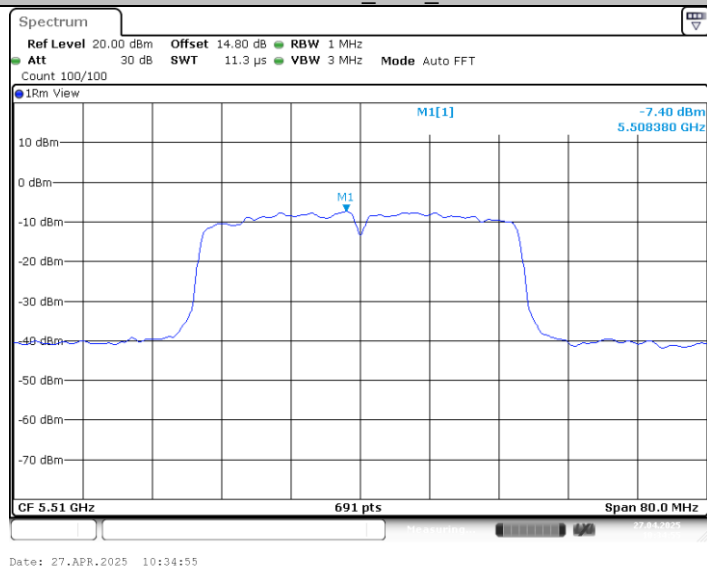
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11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



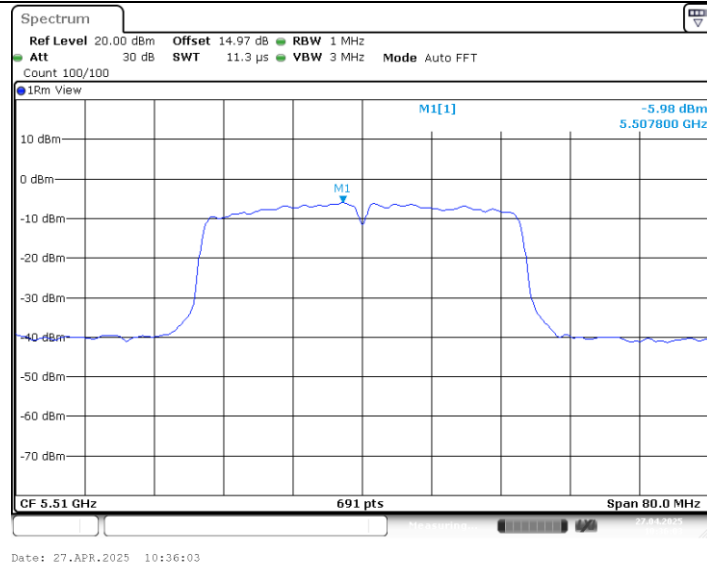
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CTC Laboratories, Inc.

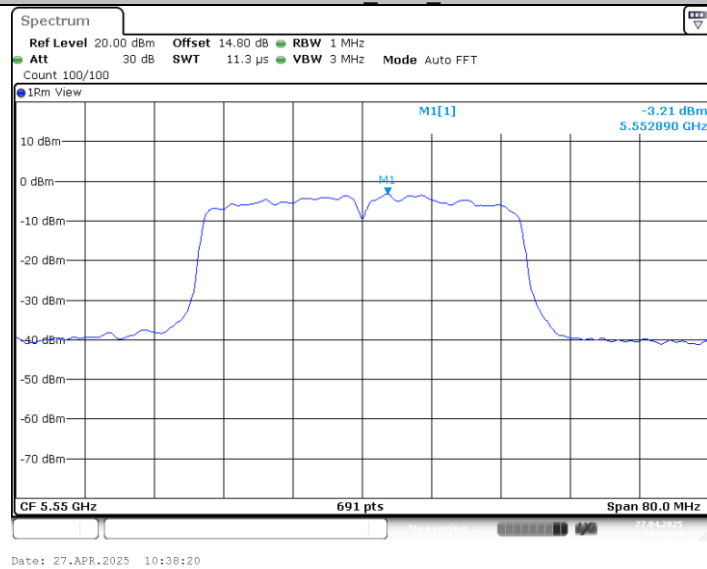
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

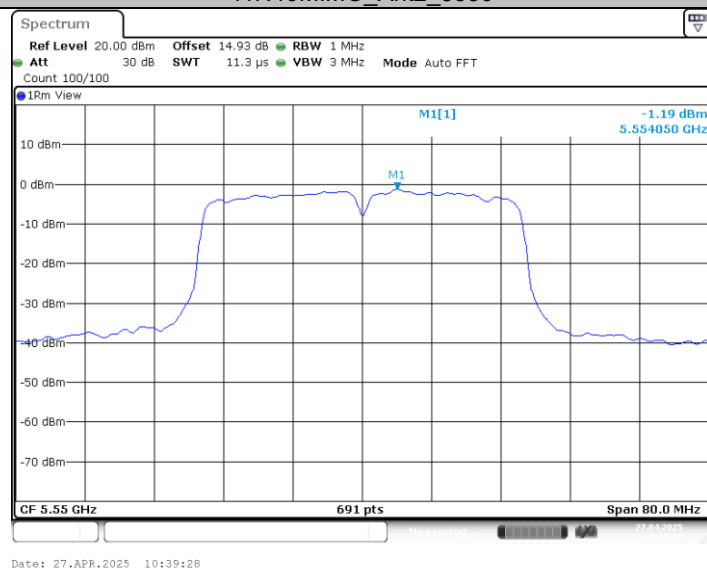
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550



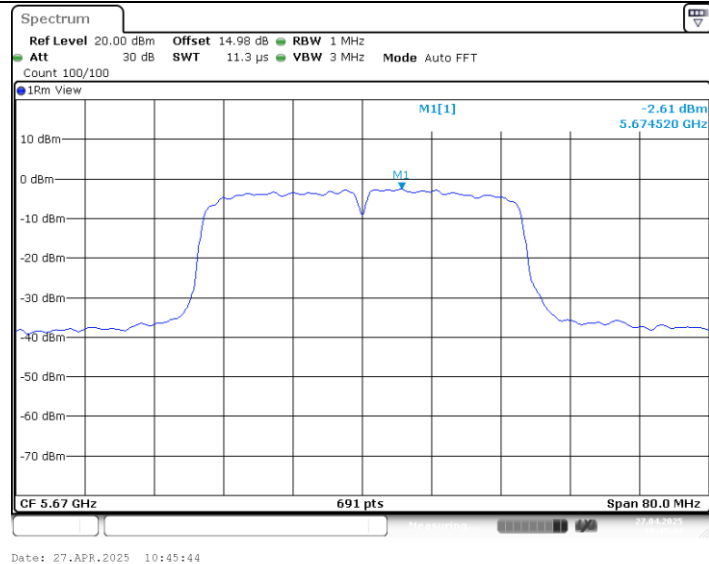
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CTC Laboratories, Inc.

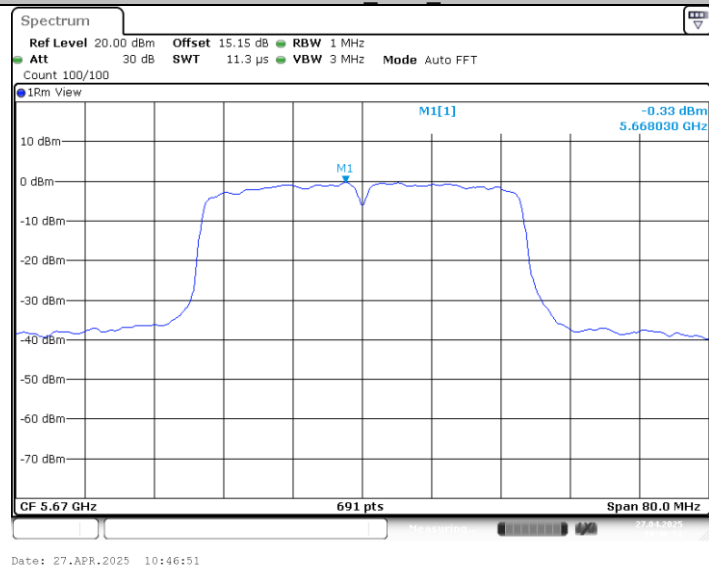
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

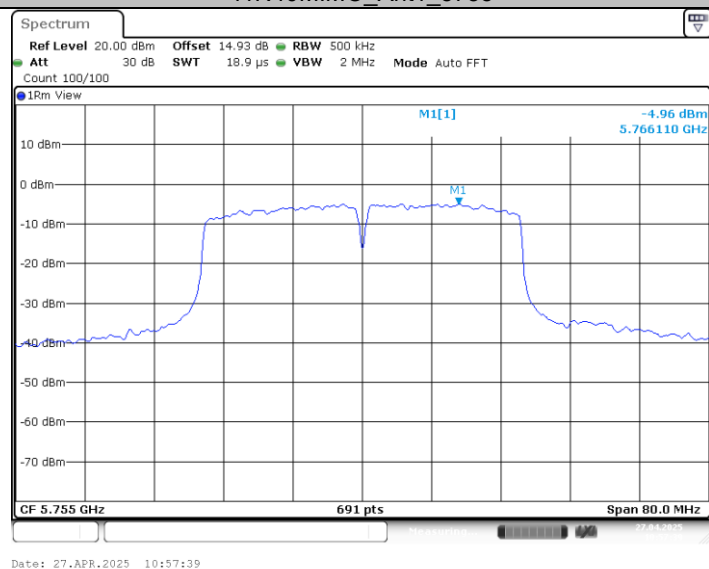
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5755



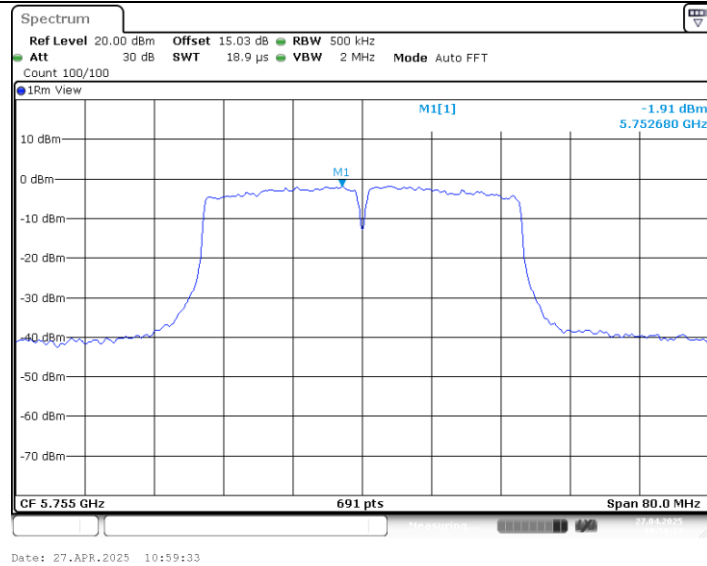
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CTC Laboratories, Inc.

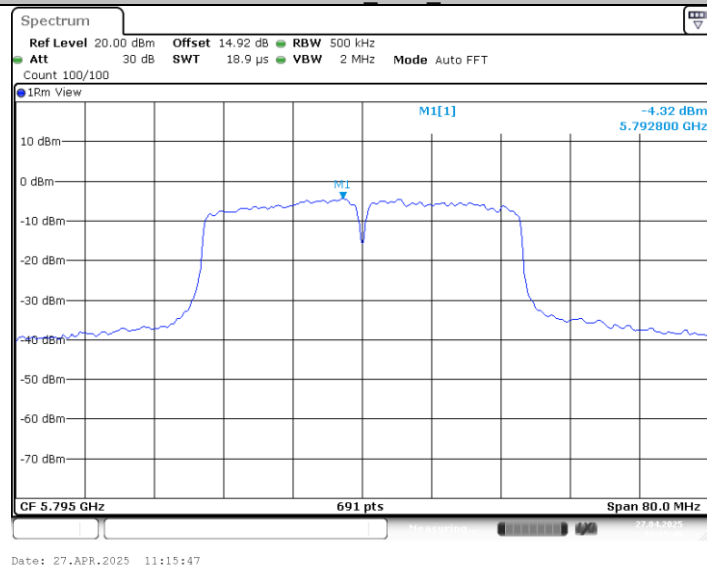
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

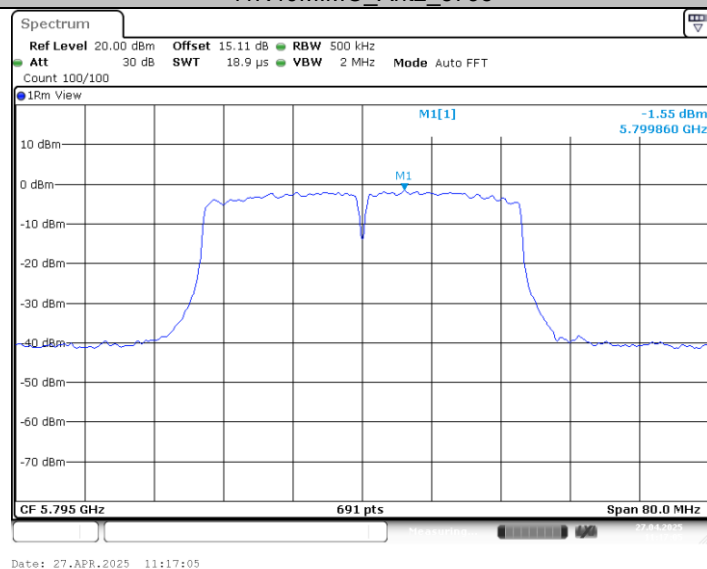
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



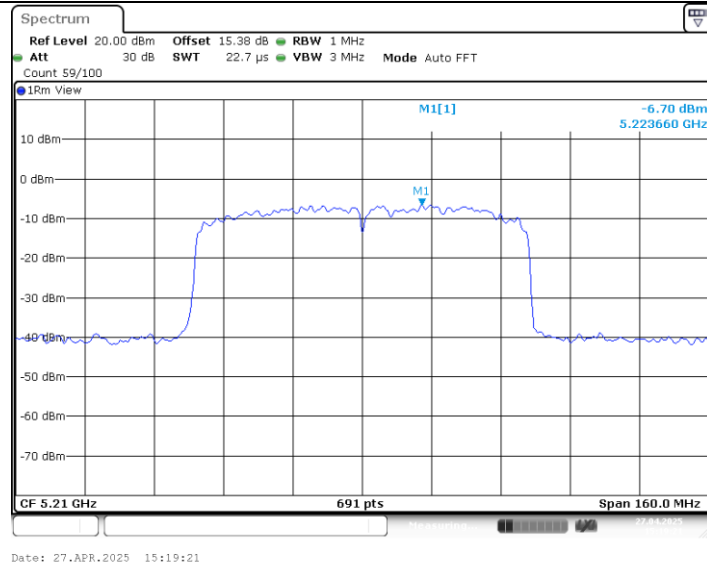
11AC80MIMO_Ant1_5210

CTC Laboratories, Inc.

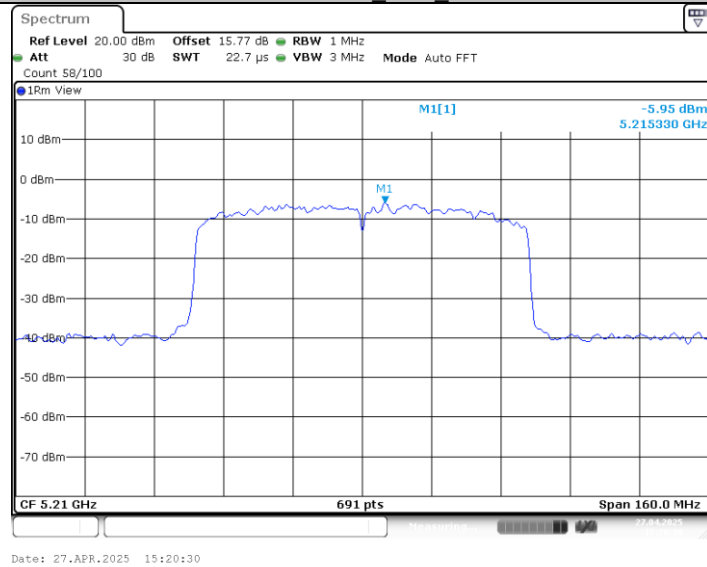
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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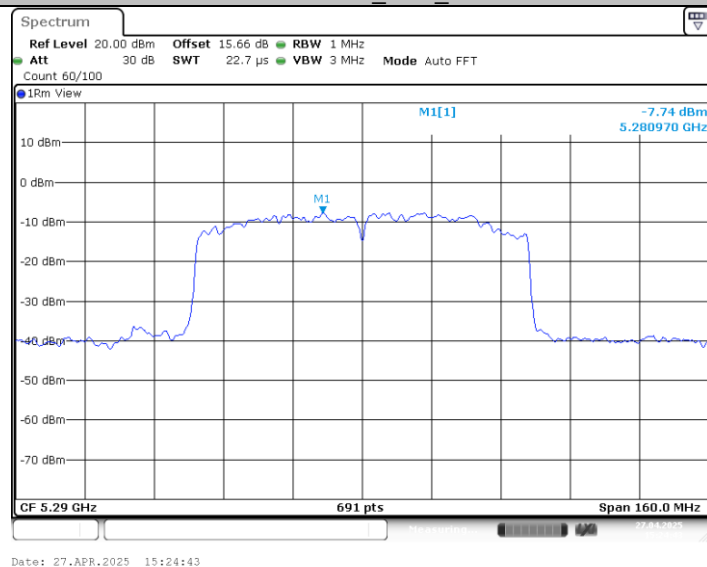
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11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5290



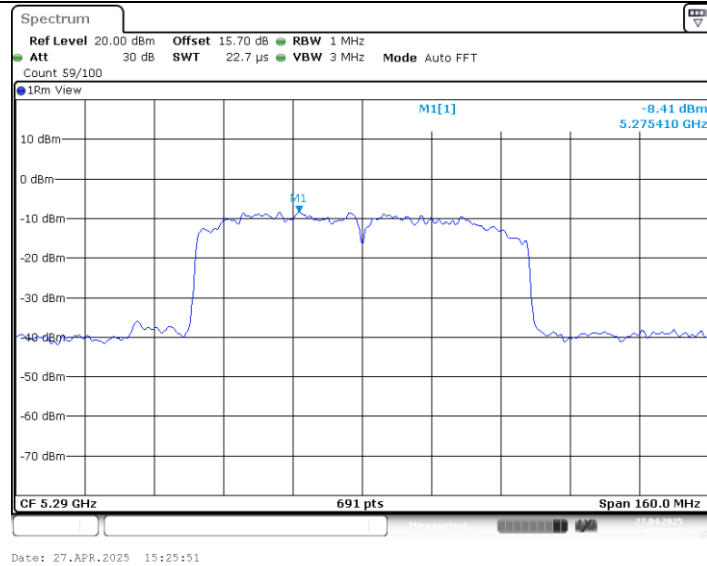
11AC80MIMO_Ant2_5290

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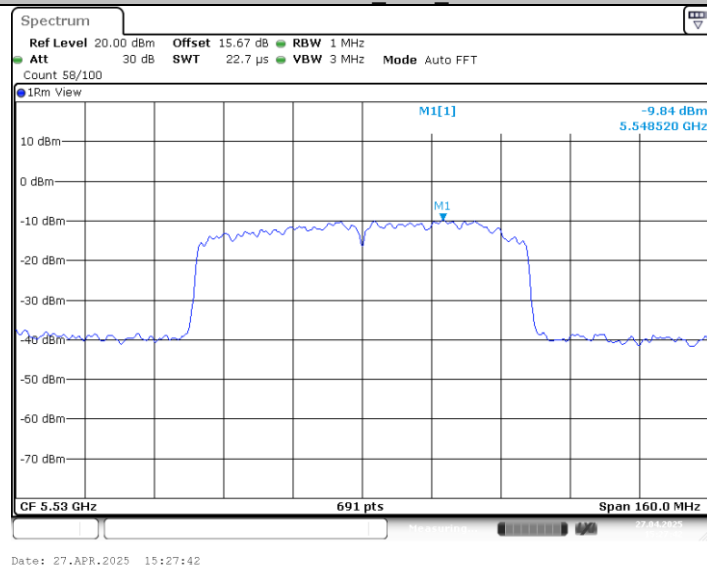
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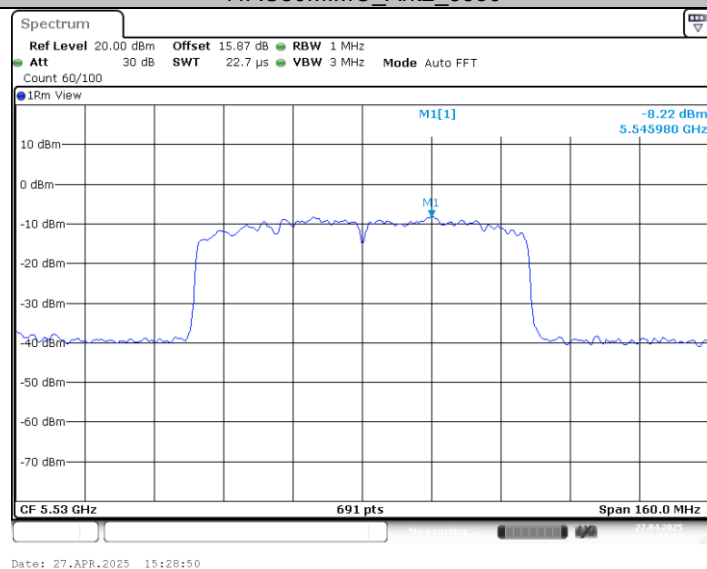
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11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



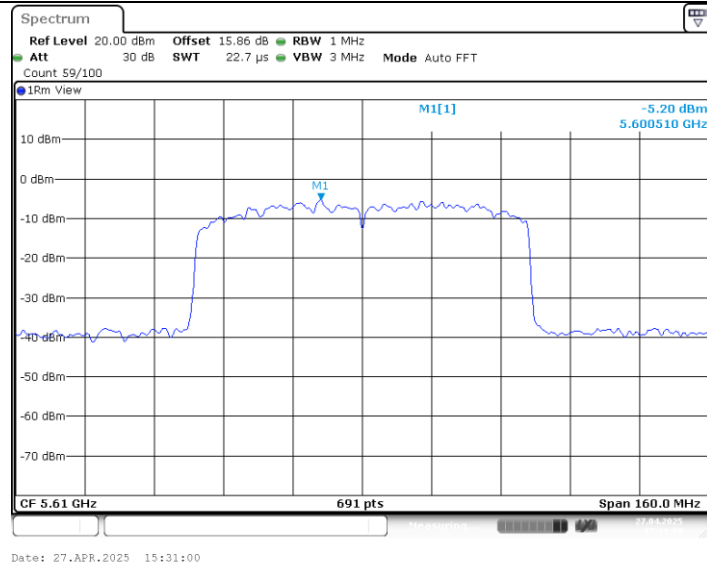
11AC80MIMO_Ant1_5610

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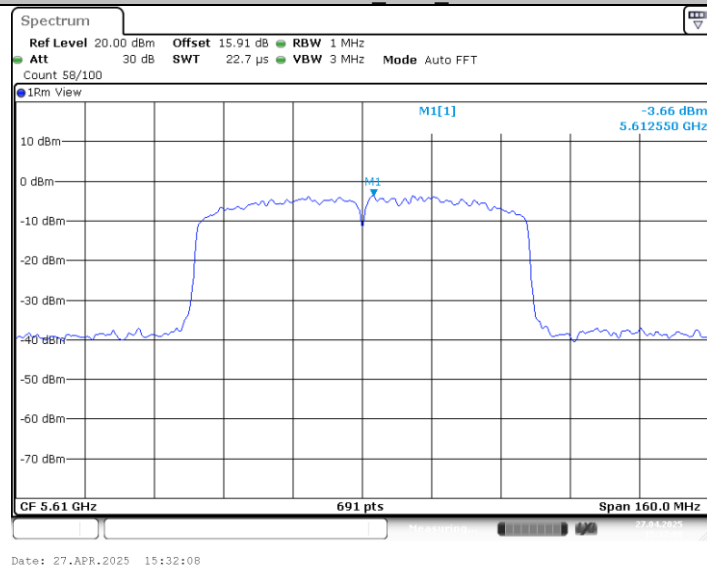
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

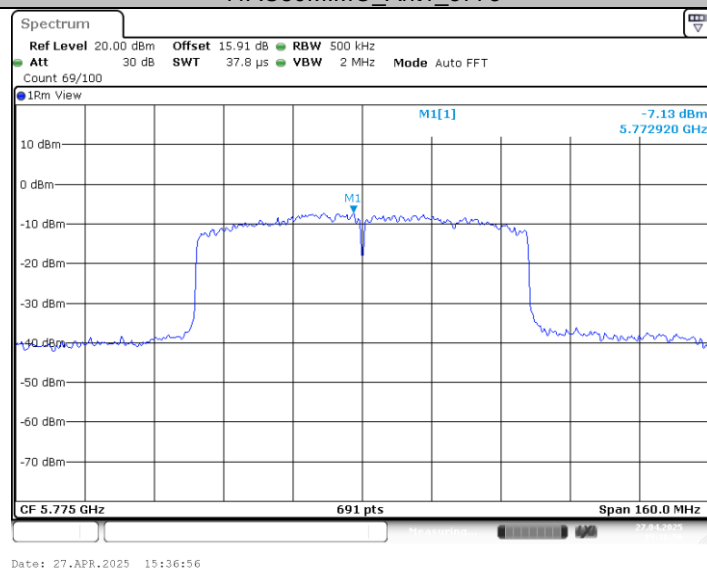
For anti-fake verification, please visit the official website of China Inspection And Testing
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11AC80MIMO_Ant2_5610



11AC80MIMO_Ant1_5775



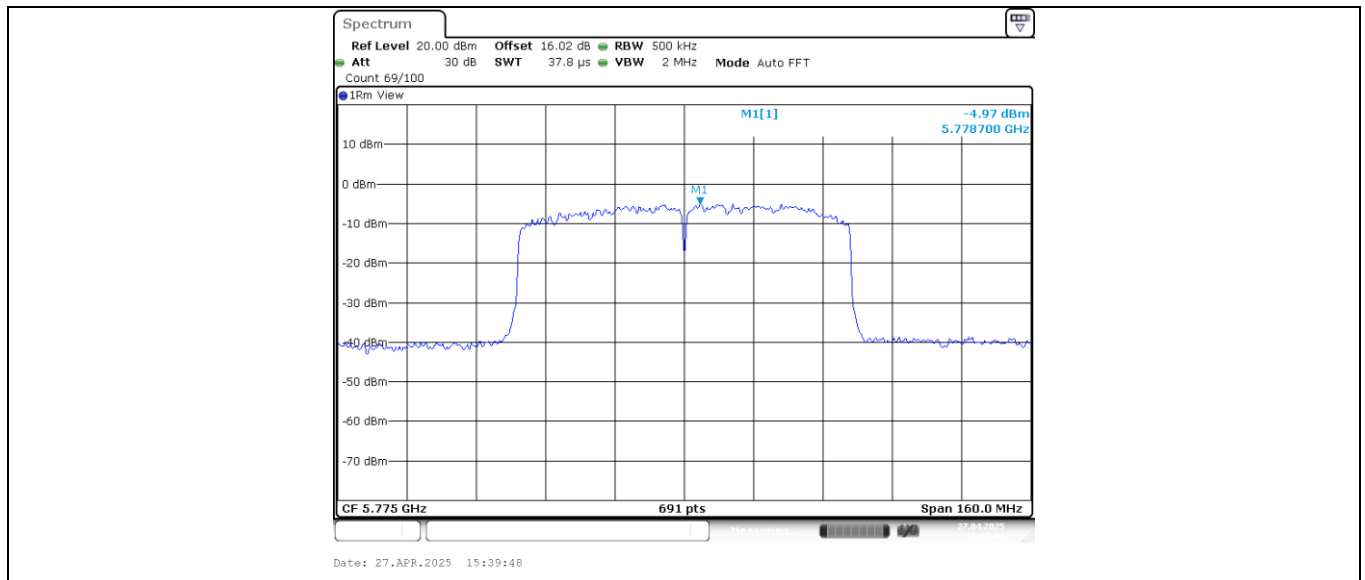
11AC80MIMO_Ant2_5775

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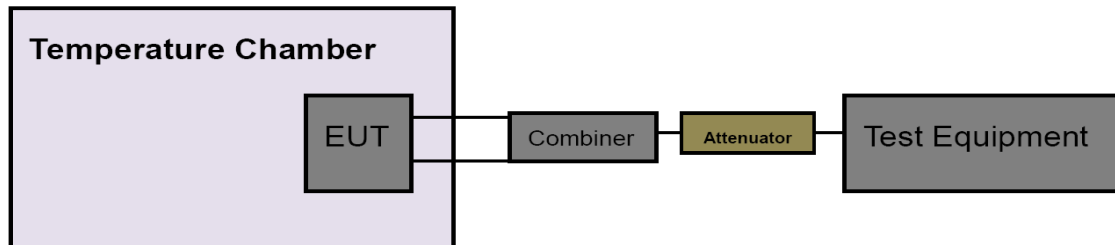
3.7. Frequency Stability

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(g)

Test Item	Limit	Frequency Range (MHz)
Frequency Stability	Specified in the user's manual, the transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 8MHz, VBW=8MHz with peak detector and max hold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 10.8V to 13.2V percent of the nominal value.
- (6) Extreme temperature is 0°C~45°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
20M	Ant1	5180	NV	NT	-5000.00	-0.965251	20	PASS
			LV	NT	-4500.00	-0.868726	20	PASS
			HV	NT	-4500.00	-0.868726	20	PASS
	Ant2	5180	NV	NT	-5000.00	-0.965251	20	PASS
			LV	NT	-5000.00	-0.965251	20	PASS
			HV	NT	-5490.00	-1.059846	20	PASS
	Ant1	5200	NV	NT	-2500.00	-0.480769	20	PASS
			LV	NT	-5490.00	-1.055769	20	PASS
			HV	NT	-5490.00	-1.055769	20	PASS
	Ant2	5200	NV	NT	-4500.00	-0.865385	20	PASS
			LV	NT	-5000.00	-0.961538	20	PASS
			HV	NT	-5000.00	-0.961538	20	PASS
	Ant1	5240	NV	NT	-4500.00	-0.858779	20	PASS
			LV	NT	-4500.00	-0.858779	20	PASS
			HV	NT	-5000.00	-0.954198	20	PASS
	Ant2	5240	NV	NT	-5000.00	-0.954198	20	PASS
			LV	NT	-4500.00	-0.858779	20	PASS
			HV	NT	-4500.00	-0.858779	20	PASS
	Ant1	5260	NV	NT	-2500.00	-0.475285	20	PASS
			LV	NT	-4500.00	-0.855513	20	PASS
			HV	NT	-5000.00	-0.950570	20	PASS
	Ant2	5260	NV	NT	-5490.00	-1.043726	20	PASS
			LV	NT	-5000.00	-0.950570	20	PASS
			HV	NT	-5490.00	-1.043726	20	PASS
	Ant1	5280	NV	NT	-4500.00	-0.852273	20	PASS
			LV	NT	-4500.00	-0.852273	20	PASS
			HV	NT	-5000.00	-0.946970	20	PASS
	Ant2	5280	NV	NT	-5000.00	-0.946970	20	PASS
			LV	NT	-5000.00	-0.946970	20	PASS
			HV	NT	-5000.00	-0.946970	20	PASS
	Ant1	5320	NV	NT	-5000.00	-0.939850	20	PASS
			LV	NT	-5000.00	-0.939850	20	PASS
			HV	NT	-5000.00	-0.939850	20	PASS
	Ant2	5320	NV	NT	-5000.00	-0.939850	20	PASS
			LV	NT	-5000.00	-0.939850	20	PASS
			HV	NT	-5000.00	-0.939850	20	PASS
	Ant1	5500	NV	NT	-2500.00	-0.454545	20	PASS
			LV	NT	-4500.00	-0.818182	20	PASS
			HV	NT	-5490.00	-0.998182	20	PASS
	Ant2	5500	NV	NT	-5000.00	-0.909091	20	PASS
			LV	NT	-4500.00	-0.818182	20	PASS
			HV	NT	-5000.00	-0.909091	20	PASS
	Ant1	5580	NV	NT	-5000.00	-0.896057	20	PASS
			LV	NT	-5490.00	-0.983871	20	PASS
			HV	NT	-5490.00	-0.983871	20	PASS
	Ant2	5580	NV	NT	-5000.00	-0.896057	20	PASS
			LV	NT	-5490.00	-0.983871	20	PASS
			HV	NT	-5490.00	-0.983871	20	PASS
	Ant1	5700	NV	NT	-5000.00	-0.877193	20	PASS
			LV	NT	-5000.00	-0.877193	20	PASS
			HV	NT	-5000.00	-0.877193	20	PASS
	Ant2	5700	NV	NT	-5490.00	-0.963158	20	PASS
			LV	NT	-5490.00	-0.963158	20	PASS
			HV	NT	-5490.00	-0.963158	20	PASS
	Ant1	5745	NV	NT	-5490.00	-0.955614	20	PASS
			LV	NT	-5490.00	-0.955614	20	PASS
			HV	NT	-5490.00	-0.955614	20	PASS
	Ant2	5745	NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-5490.00	-0.955614	20	PASS

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	Ant1	5785	HV	NT	-5490.00	-0.955614	20	PASS
			NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5490.00	-0.949006	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5490.00	-0.949006	20	PASS
			HV	NT	-5490.00	-0.949006	20	PASS
			NV	NT	-3000.00	-0.515021	20	PASS
	Ant1	5825	LV	NT	-5000.00	-0.858369	20	PASS
			HV	NT	-5000.00	-0.858369	20	PASS
			NV	NT	-5490.00	-0.942489	20	PASS
	Ant2	5825	LV	NT	-5490.00	-0.942489	20	PASS
			HV	NT	-5000.00	-0.858369	20	PASS
			NV	NT	-5000.00	-0.963391	20	PASS
40M	Ant1	5190	LV	NT	-5000.00	-0.963391	20	PASS
			HV	NT	-5000.00	-0.963391	20	PASS
			NV	NT	-4500.00	-0.867052	20	PASS
	Ant2	5190	LV	NT	-4000.00	-0.770713	20	PASS
			HV	NT	-4500.00	-0.867052	20	PASS
			NV	NT	-3500.00	-0.669216	20	PASS
	Ant1	5230	LV	NT	-5000.00	-0.956023	20	PASS
			HV	NT	-5490.00	-1.049713	20	PASS
			NV	NT	-5490.00	-1.049713	20	PASS
	Ant2	5230	LV	NT	-5490.00	-1.049713	20	PASS
			HV	NT	-5000.00	-0.956023	20	PASS
			NV	NT	-4500.00	-0.853890	20	PASS
	Ant1	5270	LV	NT	-5000.00	-0.948767	20	PASS
			HV	NT	-5000.00	-0.948767	20	PASS
			NV	NT	-5000.00	-0.948767	20	PASS
	Ant2	5270	LV	NT	-4500.00	-0.853890	20	PASS
			HV	NT	-4500.00	-0.853890	20	PASS
			NV	NT	-4500.00	-0.847458	20	PASS
	Ant1	5310	LV	NT	-5000.00	-0.941620	20	PASS
			HV	NT	-5000.00	-0.941620	20	PASS
			NV	NT	-4000.00	-0.753296	20	PASS
	Ant2	5310	LV	NT	-5990.00	-1.128060	20	PASS
			HV	NT	-6490.00	-1.222222	20	PASS
			NV	NT	-6490.00	-1.177858	20	PASS
	Ant1	5510	LV	NT	-5990.00	-1.087114	20	PASS
			HV	NT	-5990.00	-1.087114	20	PASS
			NV	NT	-5490.00	-0.996370	20	PASS
	Ant2	5510	LV	NT	-5490.00	-0.996370	20	PASS
			HV	NT	-5490.00	-0.996370	20	PASS
			NV	NT	-5490.00	-0.989189	20	PASS
	Ant1	5550	LV	NT	-5490.00	-0.989189	20	PASS
			HV	NT	-5490.00	-0.989189	20	PASS
			NV	NT	-5490.00	-0.989189	20	PASS
	Ant2	5550	LV	NT	-5490.00	-0.989189	20	PASS
			HV	NT	-5490.00	-0.989189	20	PASS
			NV	NT	-5490.00	-0.989189	20	PASS
	Ant1	5670	LV	NT	-5000.00	-0.881834	20	PASS
			HV	NT	-5000.00	-0.881834	20	PASS
			NV	NT	-5000.00	-0.881834	20	PASS
	Ant2	5670	LV	NT	-5490.00	-0.968254	20	PASS
			HV	NT	-5490.00	-0.968254	20	PASS
			NV	NT	-5490.00	-0.968254	20	PASS
	Ant1	5755	LV	NT	-5990.00	-1.040834	20	PASS
			HV	NT	-5990.00	-1.040834	20	PASS
			NV	NT	-5490.00	-0.953953	20	PASS
	Ant2	5755	LV	NT	-5490.00	-0.953953	20	PASS
			HV	NT	-5490.00	-0.953953	20	PASS
			NV	NT	-5490.00	-0.953953	20	PASS
	Ant1	5795	LV	NT	-3500.00	-0.603969	20	PASS
			HV	NT	-5490.00	-0.947368	20	PASS
			NV	NT	-5000.00	-0.862813	20	PASS
	Ant2	5795	NV	NT	-5000.00	-0.862813	20	PASS

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80M			LV	NT	-5490.00	-0.947368	20	PASS
			HV	NT	-5490.00	-0.947368	20	PASS
	Ant1	5210	NV	NT	-4500.00	-0.863724	20	PASS
			LV	NT	-4500.00	-0.863724	20	PASS
			HV	NT	-4500.00	-0.863724	20	PASS
			NV	NT	-5000.00	-0.959693	20	PASS
	Ant2	5210	LV	NT	-5000.00	-0.959693	20	PASS
			HV	NT	-4500.00	-0.863724	20	PASS
			NV	NT	-4000.00	-0.756144	20	PASS
			LV	NT	-5000.00	-0.945180	20	PASS
			HV	NT	-5000.00	-0.945180	20	PASS
			NV	NT	-5000.00	-0.945180	20	PASS
	Ant2	5290	LV	NT	-5000.00	-0.945180	20	PASS
			HV	NT	-5000.00	-0.945180	20	PASS
			NV	NT	-5000.00	-0.904159	20	PASS
			LV	NT	-5490.00	-0.992767	20	PASS
			HV	NT	-5490.00	-0.992767	20	PASS
			NV	NT	-5000.00	-0.904159	20	PASS
	Ant2	5530	LV	NT	-5000.00	-0.904159	20	PASS
			HV	NT	-5000.00	-0.904159	20	PASS
			NV	NT	-4500.00	-0.802139	20	PASS
			LV	NT	-5490.00	-0.978610	20	PASS
			HV	NT	-5000.00	-0.891266	20	PASS
			NV	NT	-5000.00	-0.891266	20	PASS
	Ant2	5610	LV	NT	-5490.00	-0.978610	20	PASS
			HV	NT	-5490.00	-0.978610	20	PASS
			NV	NT	-5990.00	-1.037229	20	PASS
			LV	NT	-5490.00	-0.950649	20	PASS
			HV	NT	-5490.00	-0.950649	20	PASS
			NV	NT	-5490.00	-0.950649	20	PASS
	Ant2	5775	LV	NT	-5490.00	-0.950649	20	PASS
			HV	NT	-5490.00	-0.950649	20	PASS

Temperature								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20M	Ant1	5180	NV	0	-4500.00	-0.868726	20	PASS
			NV	10	-5000.00	-0.965251	20	PASS
			NV	20	-5000.00	-0.965251	20	PASS
			NV	30	-5000.00	-0.965251	20	PASS
			NV	40	-5000.00	-0.965251	20	PASS
			NV	45	-5000.00	-0.965251	20	PASS
	Ant2	5180	NV	0	-4500.00	-0.868726	20	PASS
			NV	10	-4500.00	-0.868726	20	PASS
			NV	20	-4500.00	-0.868726	20	PASS
			NV	30	-5000.00	-0.965251	20	PASS
			NV	40	-5490.00	-1.059846	20	PASS
			NV	45	-5000.00	-0.965251	20	PASS
	Ant1	5200	NV	0	-5000.00	-0.961538	20	PASS
			NV	10	-5000.00	-0.961538	20	PASS
			NV	20	-5000.00	-0.961538	20	PASS
			NV	30	-5000.00	-0.961538	20	PASS
			NV	40	-5490.00	-1.055769	20	PASS
			NV	45	-5000.00	-0.961538	20	PASS
	Ant2	5200	NV	0	-5000.00	-0.961538	20	PASS
			NV	10	-4500.00	-0.865385	20	PASS
			NV	20	-4500.00	-0.865385	20	PASS
			NV	30	-5000.00	-0.961538	20	PASS
			NV	40	-4500.00	-0.865385	20	PASS
			NV	45	-5000.00	-0.961538	20	PASS
	Ant1	5240	NV	0	-5000.00	-0.954198	20	PASS
			NV	10	-4500.00	-0.858779	20	PASS
			NV	20	-5000.00	-0.954198	20	PASS
			NV	30	-4500.00	-0.858779	20	PASS

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			NV	40	-4500.00	-0.858779	20	PASS
			NV	45	-5000.00	-0.954198	20	PASS
	Ant2	5240	NV	0	-5000.00	-0.954198	20	PASS
			NV	10	-4500.00	-0.858779	20	PASS
			NV	20	-4500.00	-0.858779	20	PASS
			NV	30	-4500.00	-0.858779	20	PASS
			NV	40	-4500.00	-0.858779	20	PASS
			NV	45	-4500.00	-0.858779	20	PASS
	Ant1	5260	NV	0	-5000.00	-0.950570	20	PASS
			NV	10	-5490.00	-1.043726	20	PASS
			NV	20	-5000.00	-0.950570	20	PASS
			NV	30	-5000.00	-0.950570	20	PASS
			NV	40	-5490.00	-1.043726	20	PASS
			NV	45	-5000.00	-0.950570	20	PASS
	Ant2	5260	NV	0	-5490.00	-1.043726	20	PASS
			NV	10	-5000.00	-0.950570	20	PASS
			NV	20	-4500.00	-0.855513	20	PASS
			NV	30	-5000.00	-0.950570	20	PASS
			NV	40	-5000.00	-0.950570	20	PASS
			NV	45	-5000.00	-0.950570	20	PASS
	Ant1	5280	NV	0	-5000.00	-0.946970	20	PASS
			NV	10	-5000.00	-0.946970	20	PASS
			NV	20	-5000.00	-0.946970	20	PASS
			NV	30	-4500.00	-0.852273	20	PASS
			NV	40	-5000.00	-0.946970	20	PASS
			NV	45	-5000.00	-0.946970	20	PASS
	Ant2	5280	NV	0	-5000.00	-0.946970	20	PASS
			NV	10	-5000.00	-0.946970	20	PASS
			NV	20	-5000.00	-0.946970	20	PASS
			NV	30	-5000.00	-0.946970	20	PASS
			NV	40	-5000.00	-0.946970	20	PASS
			NV	45	-5000.00	-0.946970	20	PASS
	Ant1	5320	NV	0	-5000.00	-0.939850	20	PASS
			NV	10	-5000.00	-0.939850	20	PASS
			NV	20	-4500.00	-0.845865	20	PASS
			NV	30	-4500.00	-0.845865	20	PASS
			NV	40	-5000.00	-0.939850	20	PASS
			NV	45	-5000.00	-0.939850	20	PASS
	Ant2	5320	NV	0	-5000.00	-0.939850	20	PASS
			NV	10	-5000.00	-0.939850	20	PASS
			NV	20	-5000.00	-0.939850	20	PASS
			NV	30	-5000.00	-0.939850	20	PASS
			NV	40	-5000.00	-0.939850	20	PASS
			NV	45	-5000.00	-0.939850	20	PASS
	Ant1	5500	NV	0	-5490.00	-0.998182	20	PASS
			NV	10	-5490.00	-0.998182	20	PASS
			NV	20	-5000.00	-0.909091	20	PASS
			NV	30	-5000.00	-0.909091	20	PASS
			NV	40	-5000.00	-0.909091	20	PASS
			NV	45	-5490.00	-0.998182	20	PASS
	Ant2	5500	NV	0	-5000.00	-0.909091	20	PASS
			NV	10	-5000.00	-0.909091	20	PASS
			NV	20	-5000.00	-0.909091	20	PASS
			NV	30	-5000.00	-0.909091	20	PASS
			NV	40	-5000.00	-0.909091	20	PASS
			NV	45	-5000.00	-0.909091	20	PASS
	Ant1	5580	NV	0	-5000.00	-0.896057	20	PASS
			NV	10	-5000.00	-0.896057	20	PASS
			NV	20	-5000.00	-0.896057	20	PASS
			NV	30	-5000.00	-0.896057	20	PASS
			NV	40	-5000.00	-0.896057	20	PASS
			NV	45	-5000.00	-0.896057	20	PASS
	Ant2	5580	NV	0	-5490.00	-0.983871	20	PASS
			NV	10	-5000.00	-0.896057	20	PASS
			NV	20	-5000.00	-0.896057	20	PASS

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