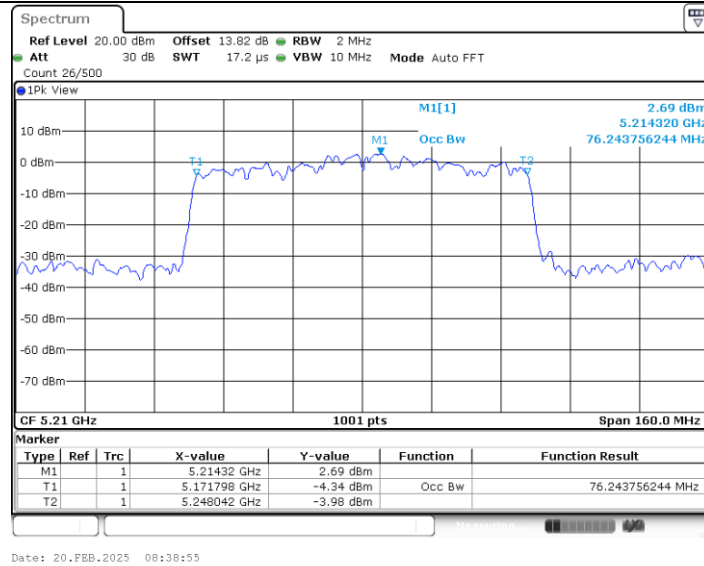
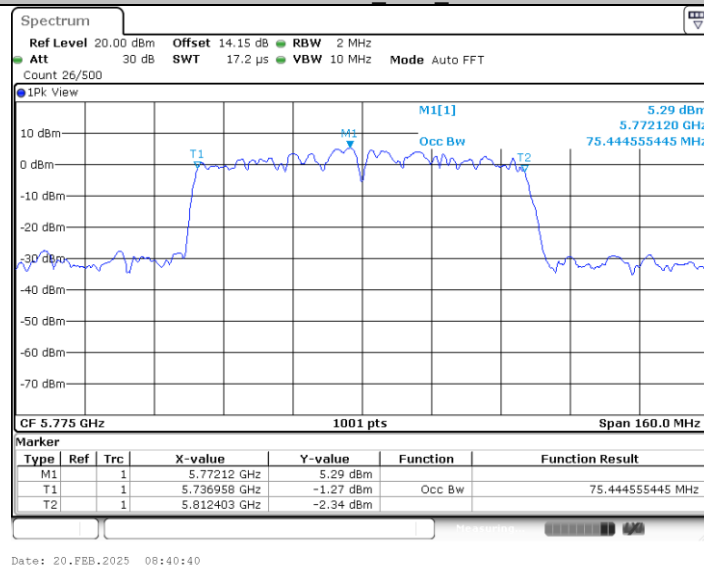
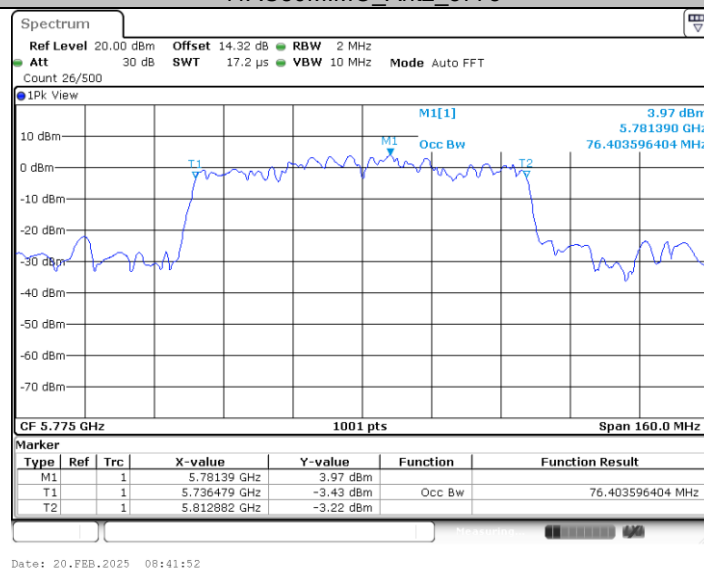




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11AC80MIMO_Ant2_5775



11AX20MIMO_Ant1_5180

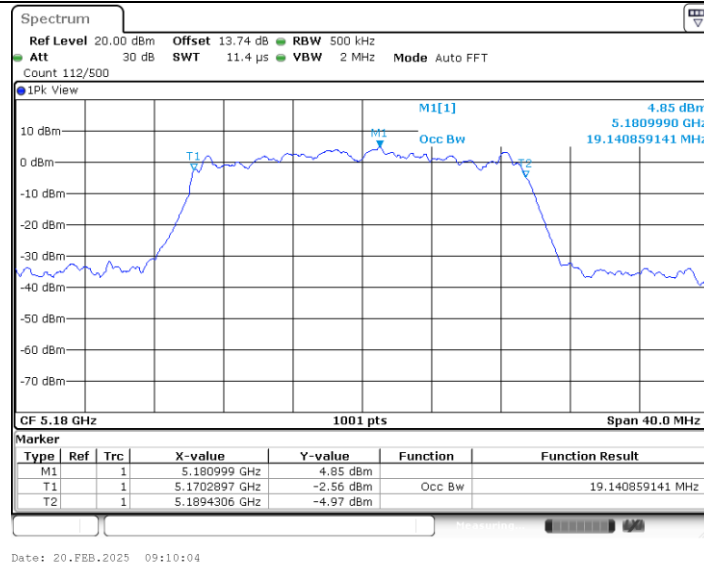
CTC Laboratories, Inc.

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

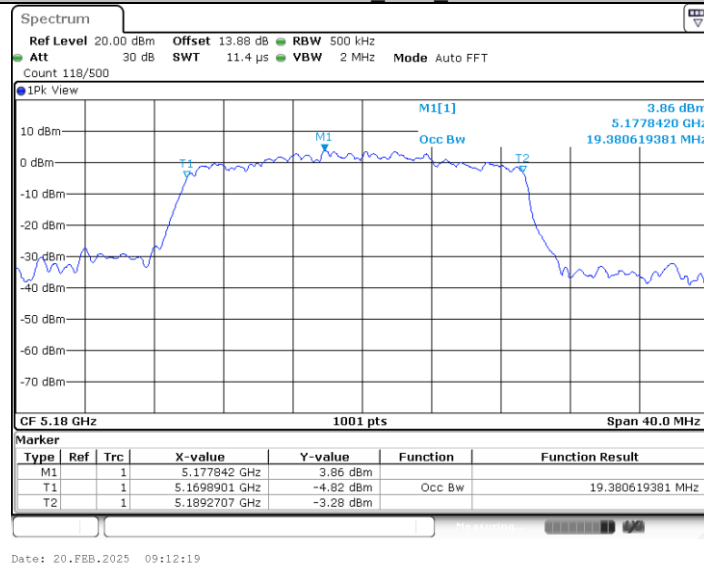
For anti-fake verification, please visit the official website of China Inspection And Testing

Society : yz.cncaq.com

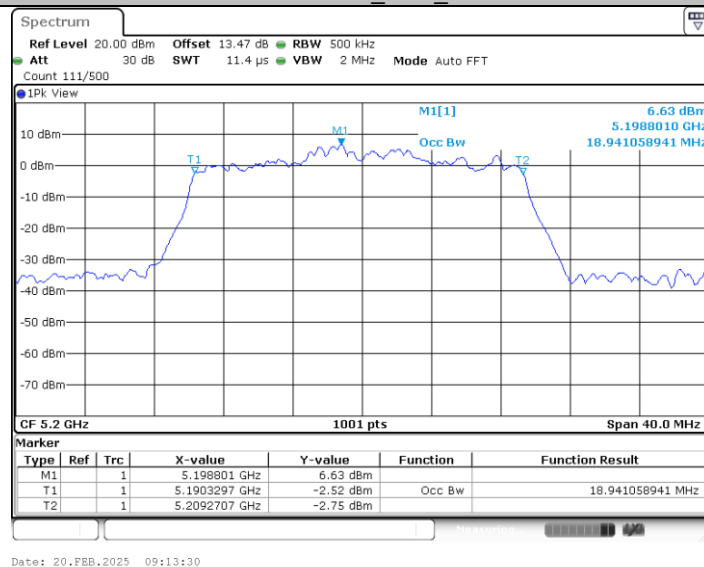
TRF No: CTC-TR-062_A2



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11AX20MIMO_Ant1_5200



11AX20MIMO_Ant2_5200

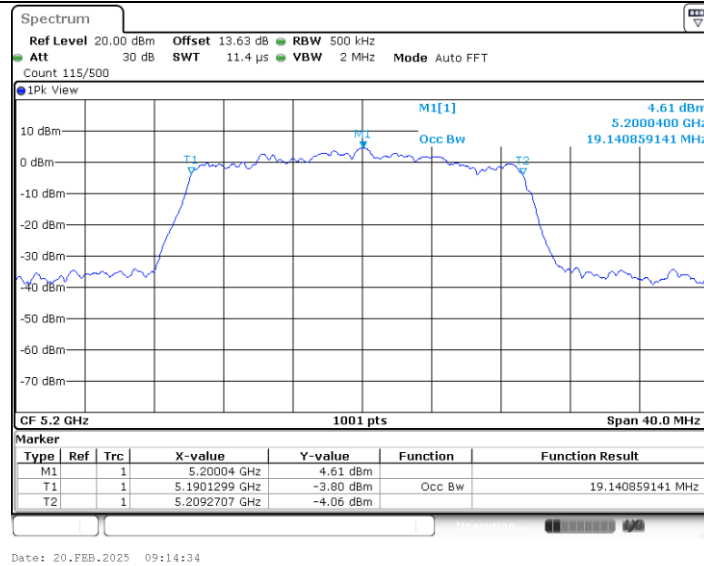
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

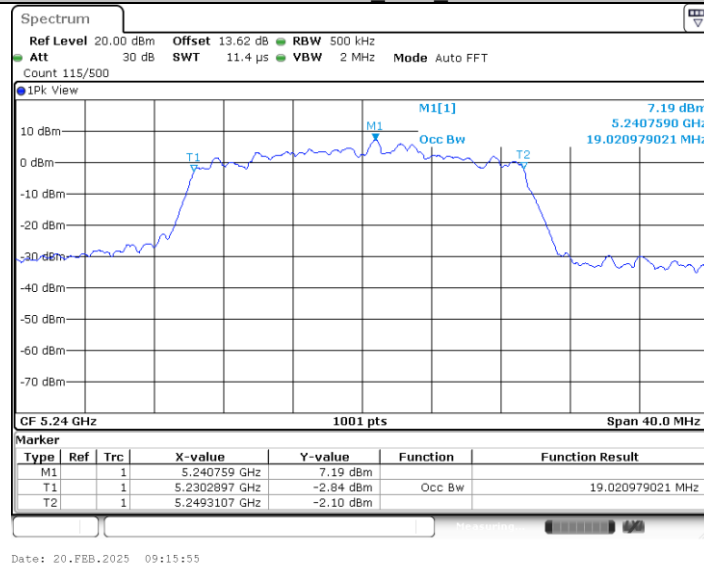
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Society : yz.cncaq.com

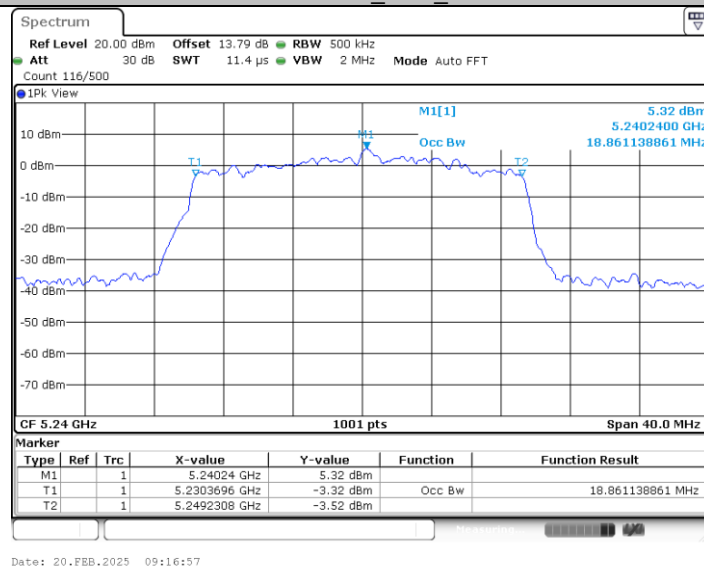
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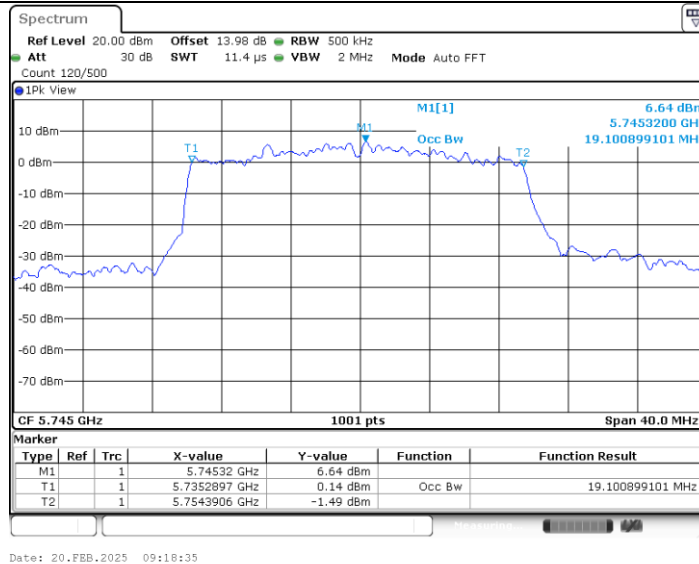
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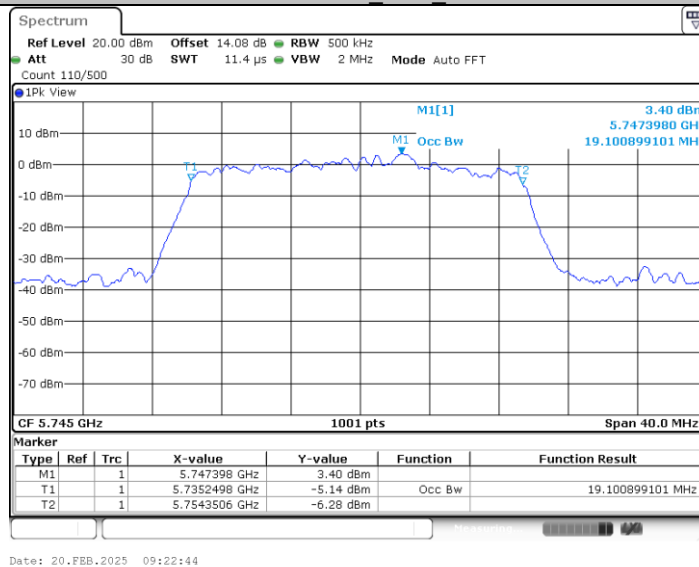
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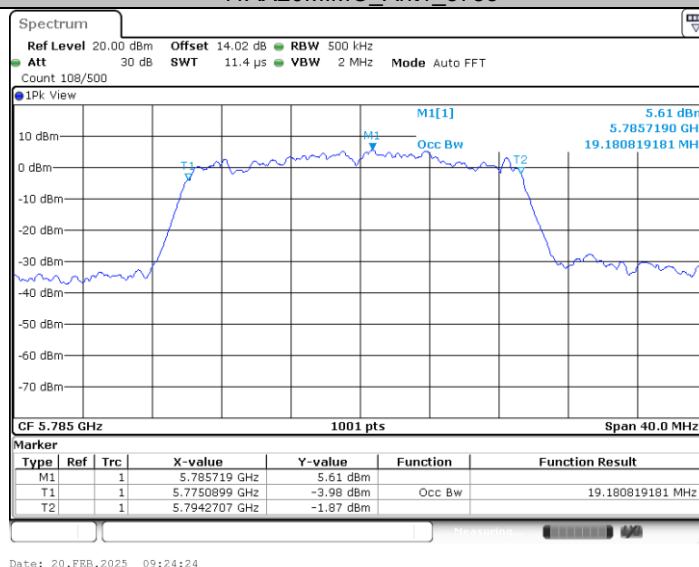
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11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



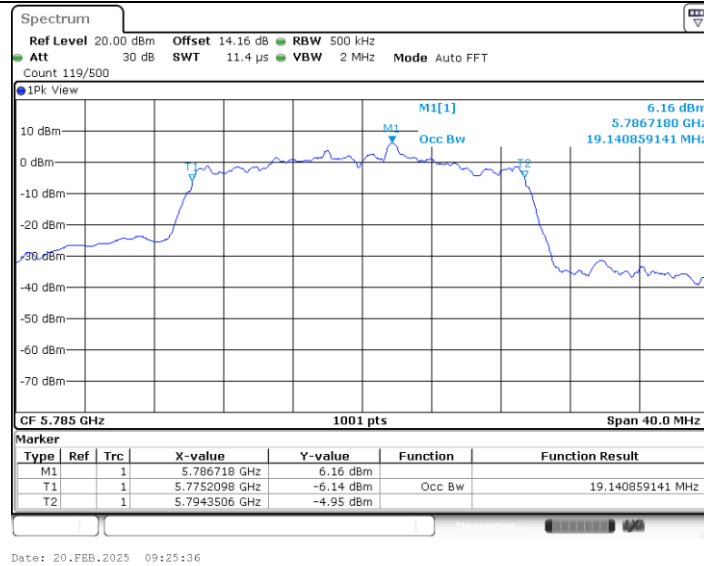
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CTC Laboratories, Inc.

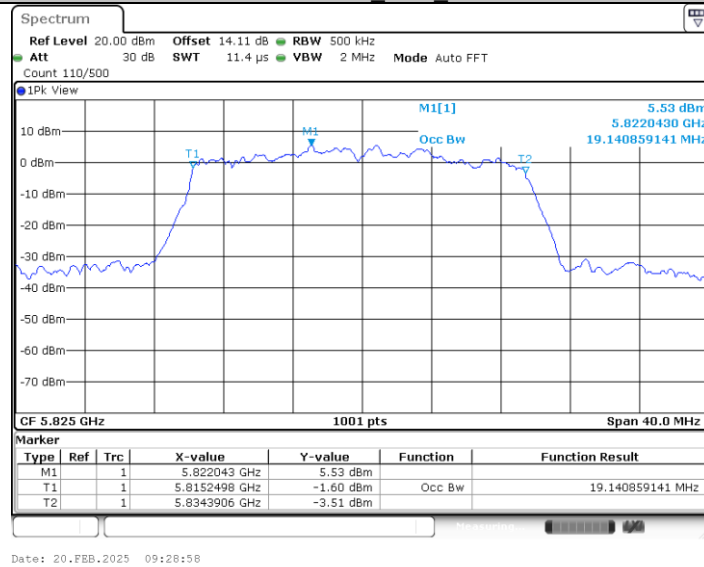
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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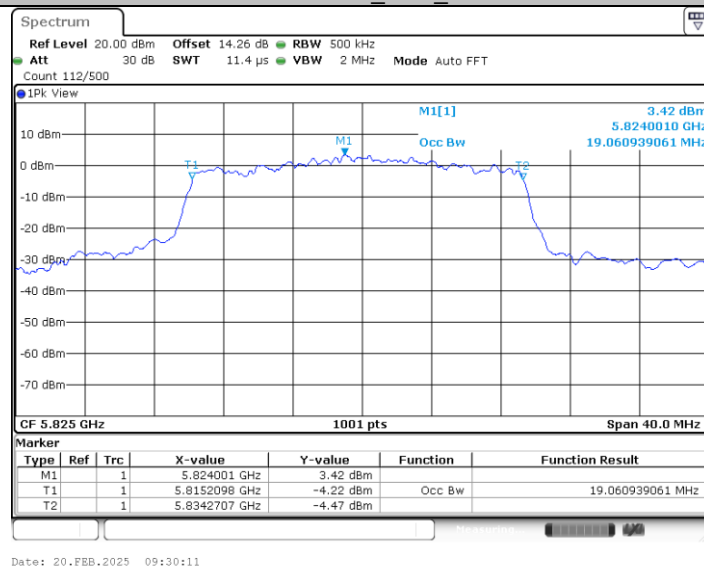
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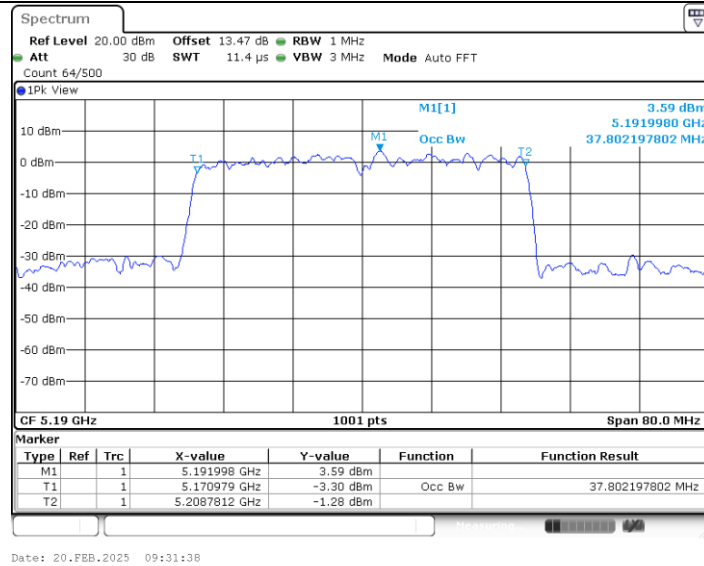
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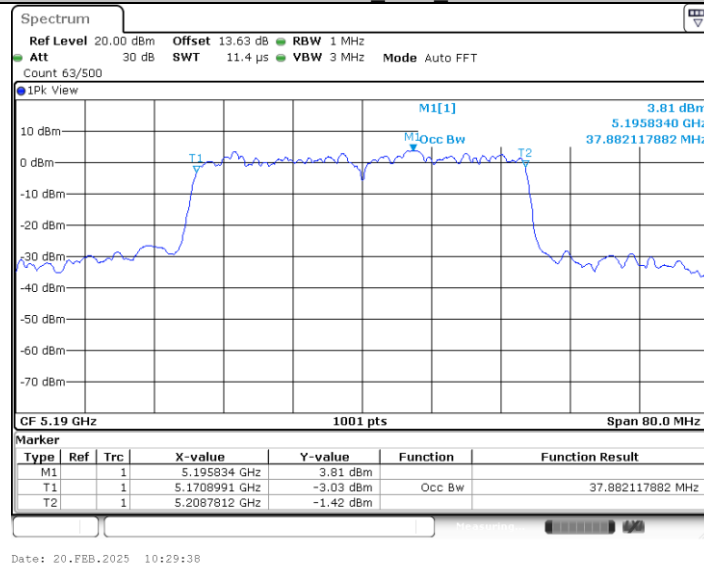
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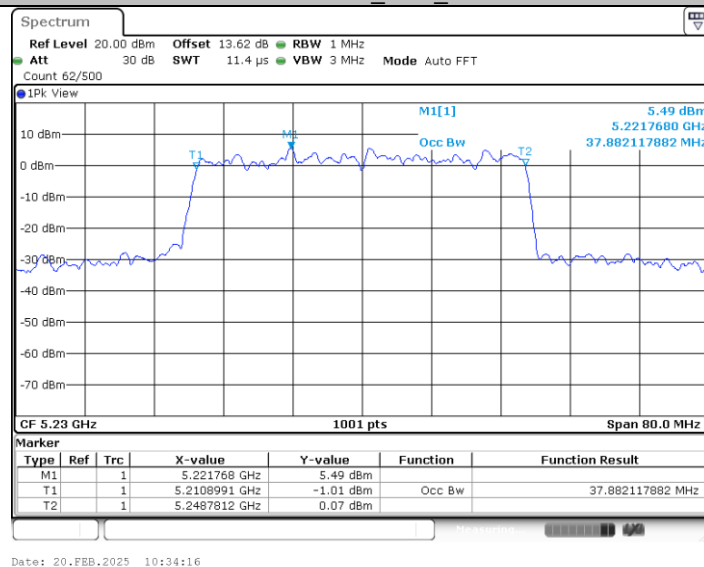
11AX40MIMO_Ant1_5190



11AX40MIMO_Ant2_5190



11AX40MIMO_Ant1_5230



11AX40MIMO_Ant2_5230

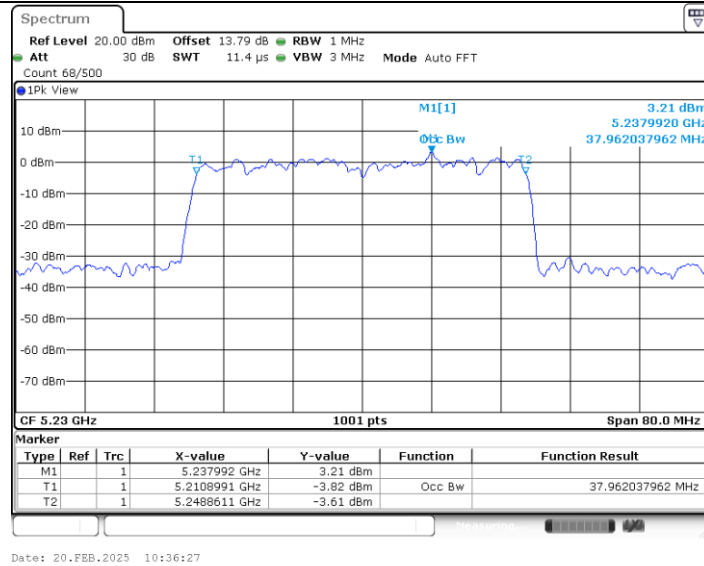
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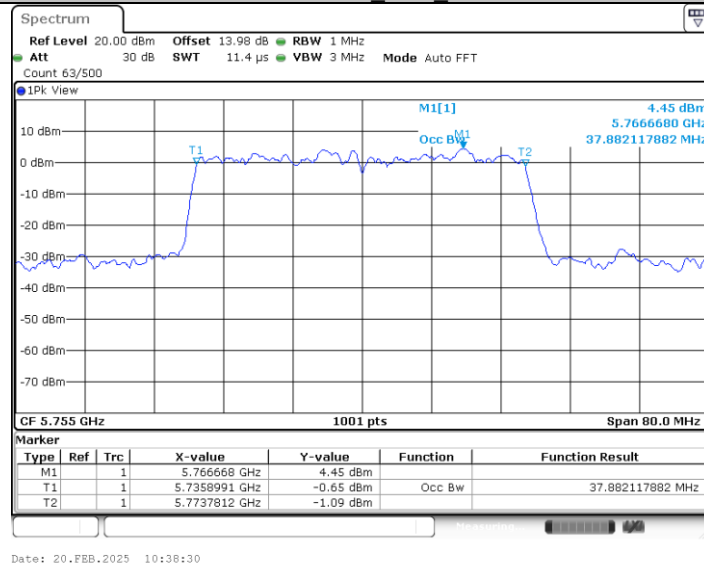
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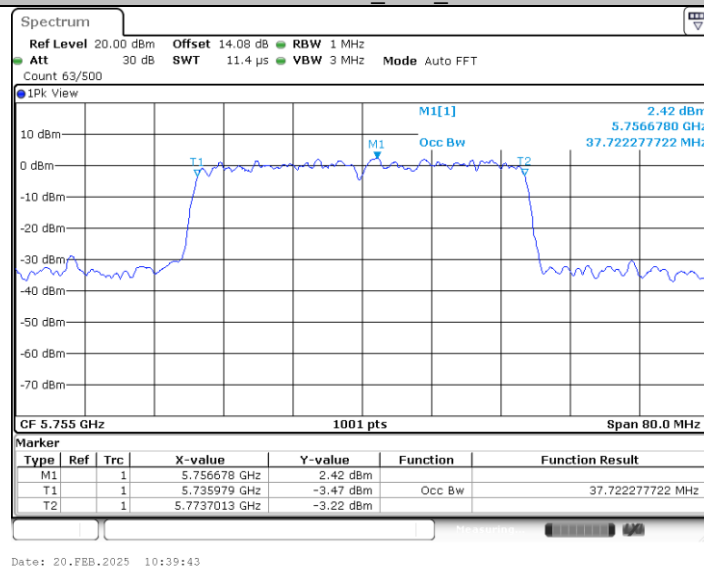
TRF No: CTC-TR-062_A2



11AX40MIMO_Ant1_5755



11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795

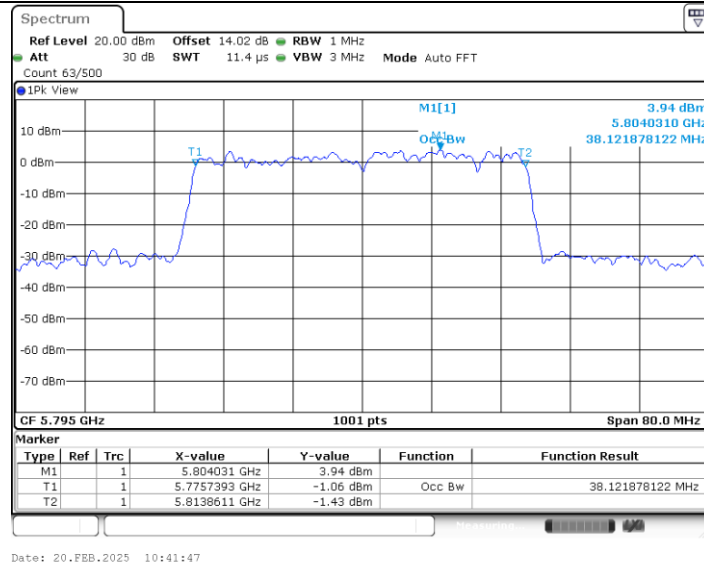
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

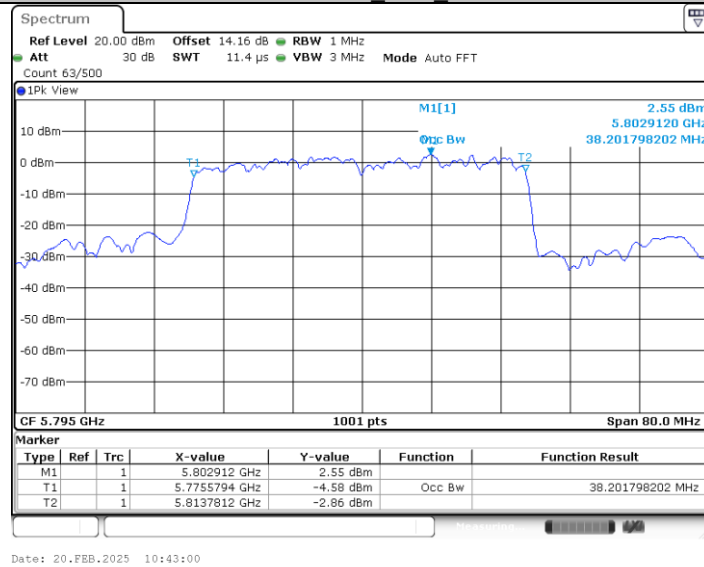
For anti-fake verification, please visit the official website of China Inspection And Testing

Society : yz.cncqa.com

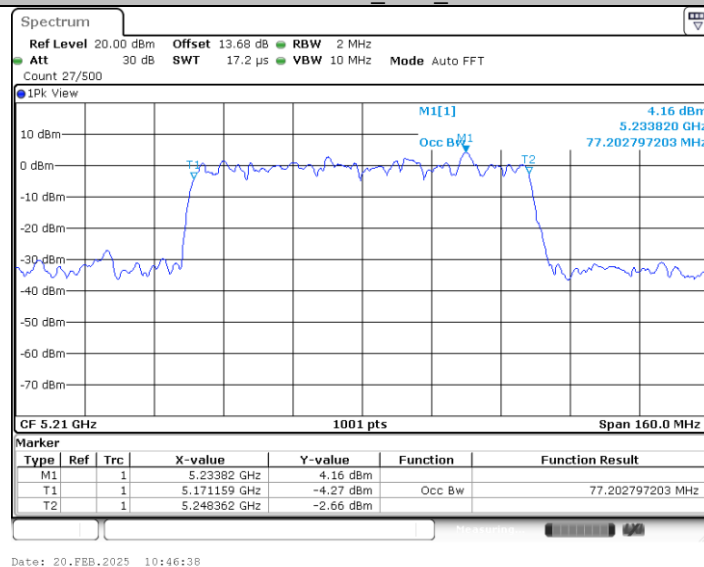
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11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5210



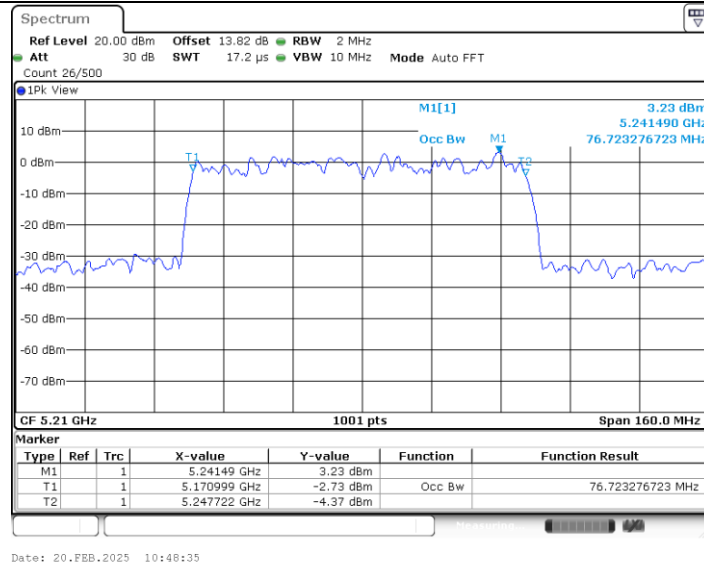
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CTC Laboratories, Inc.

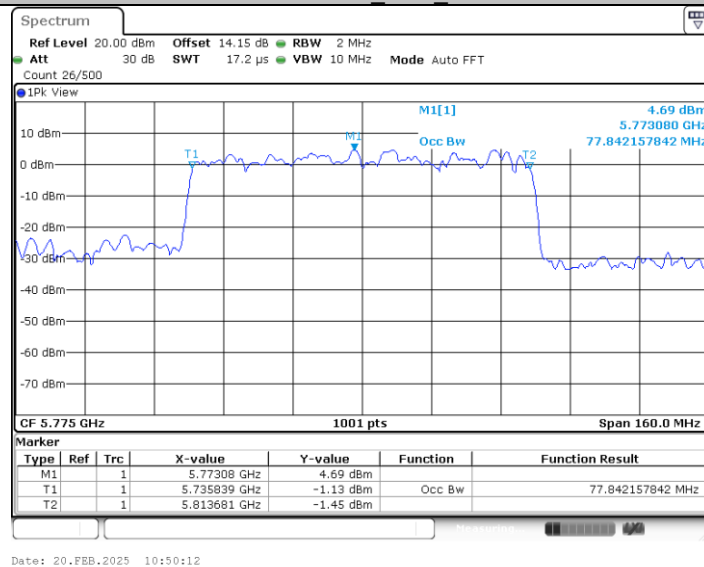
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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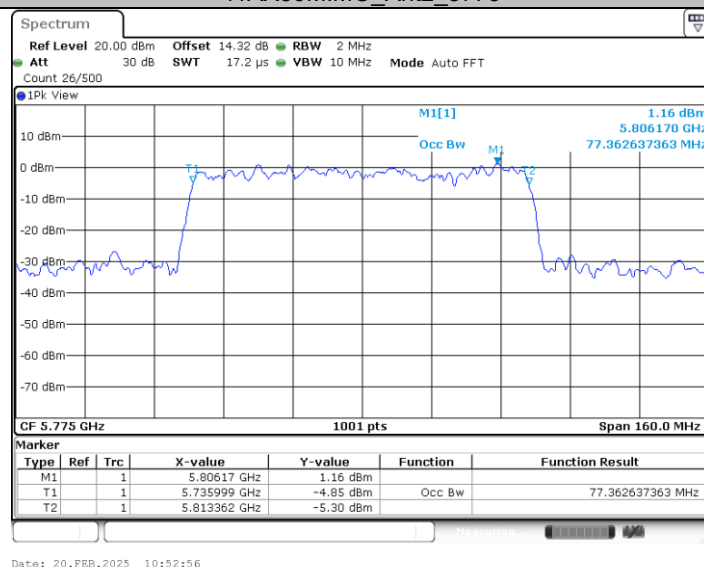
TRF No: CTC-TR-062_A2



11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



CTC Laboratories, Inc.

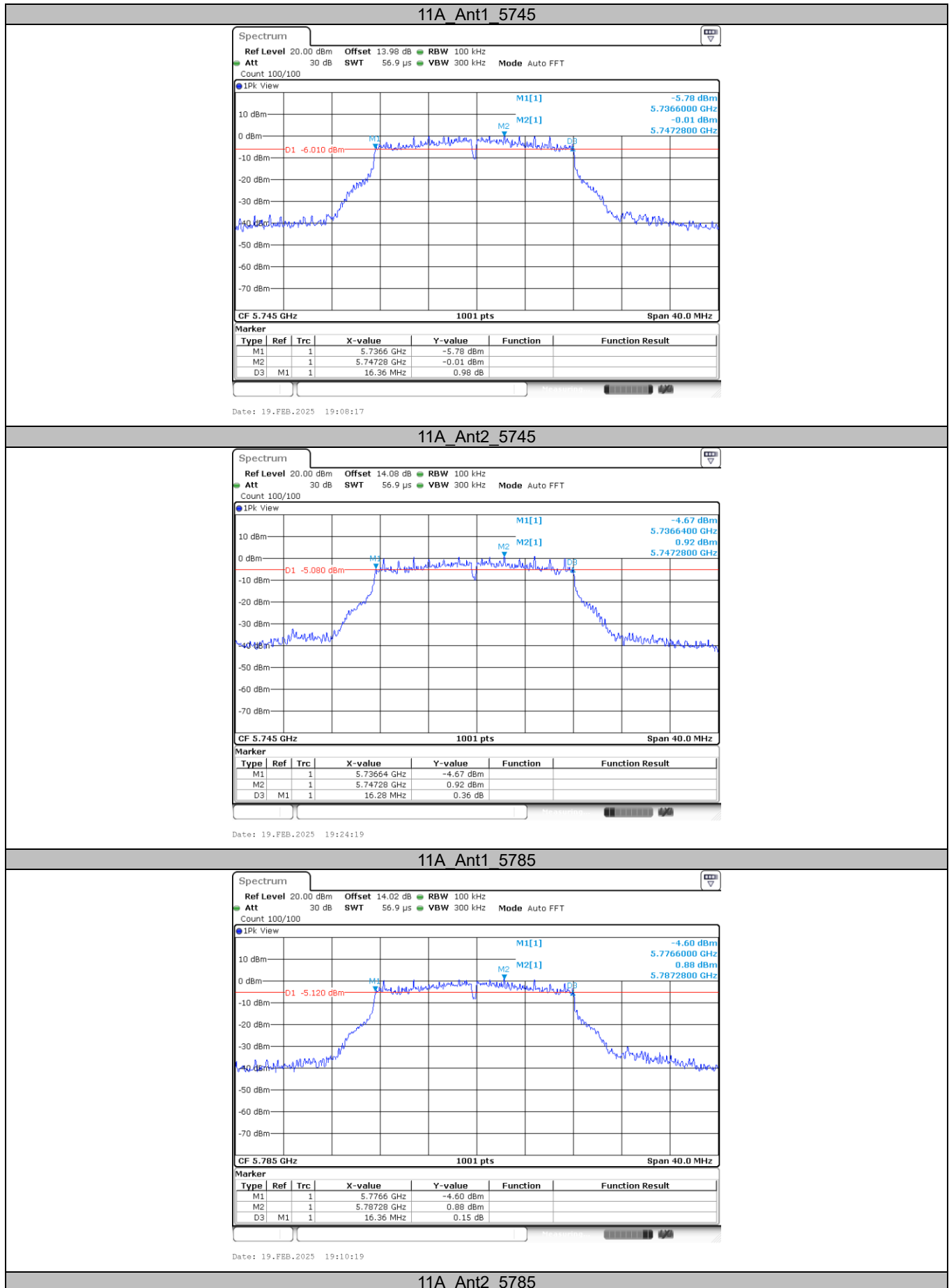
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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Society : yz.cncaq.com

TRF No: CTC-TR-062_A2



6dB Bandwidth:



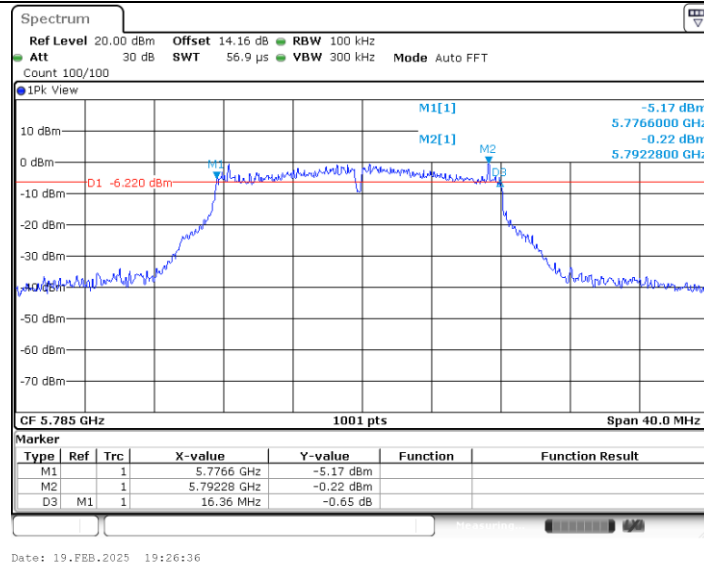
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

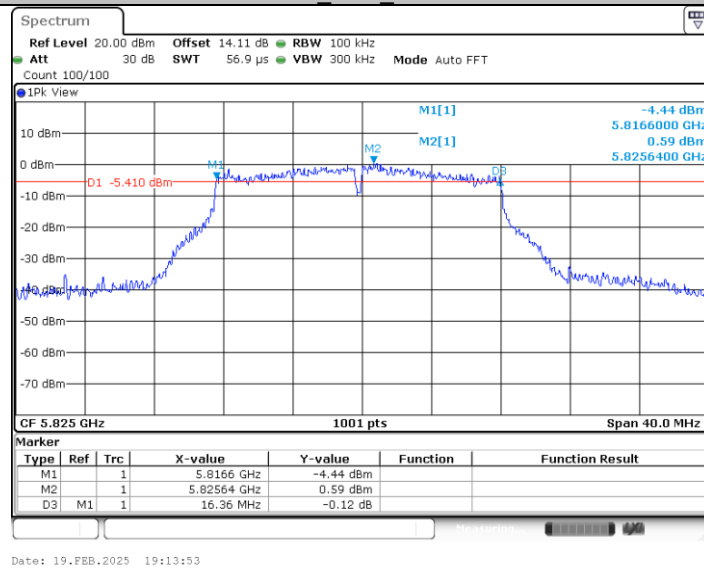
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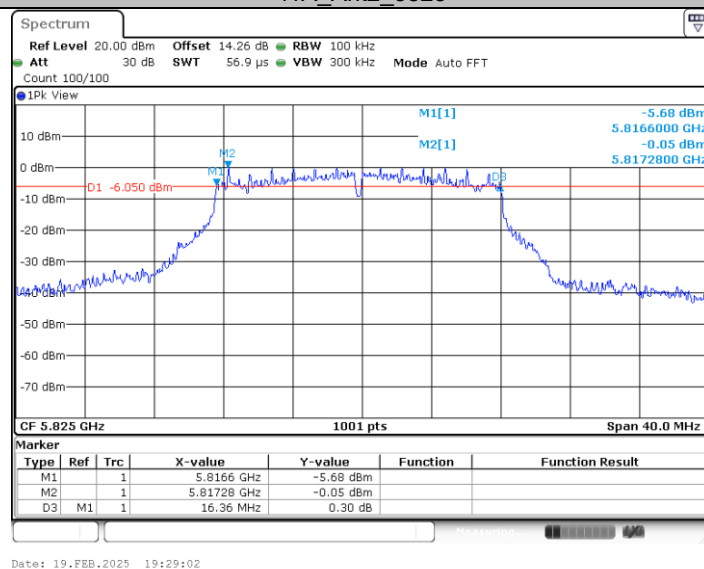
Society : yz.cncaq.com



11A_Ant1_5825



11A_Ant2_5825



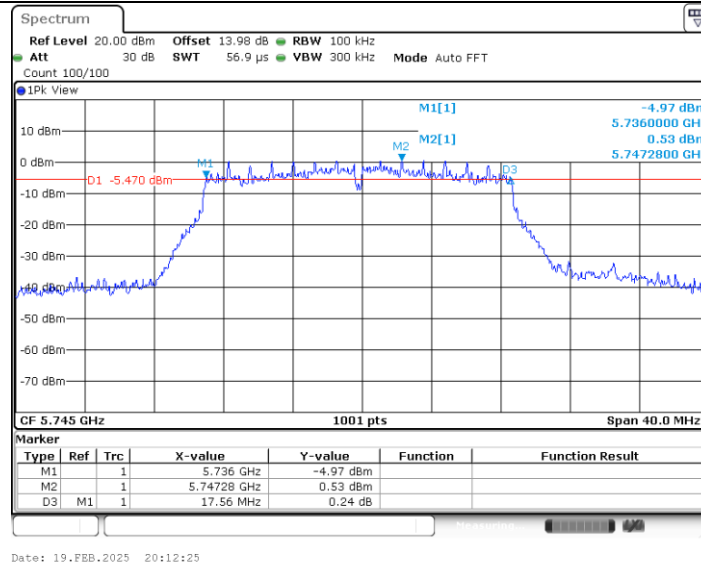
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CTC Laboratories, Inc.

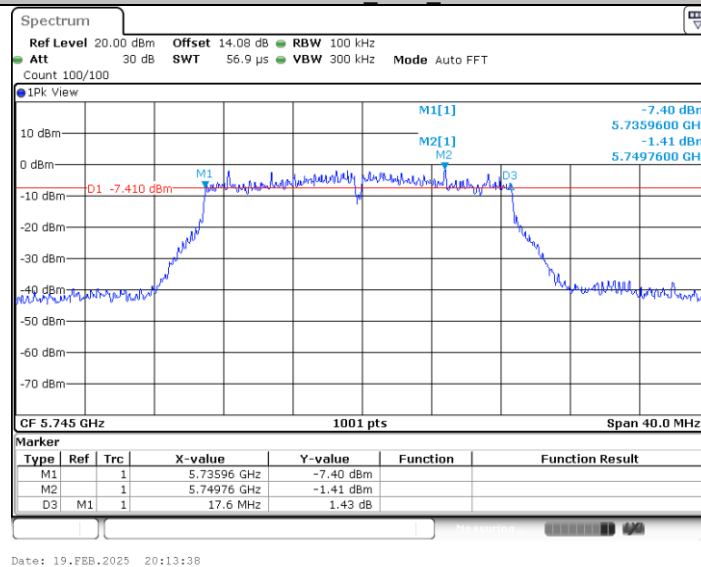
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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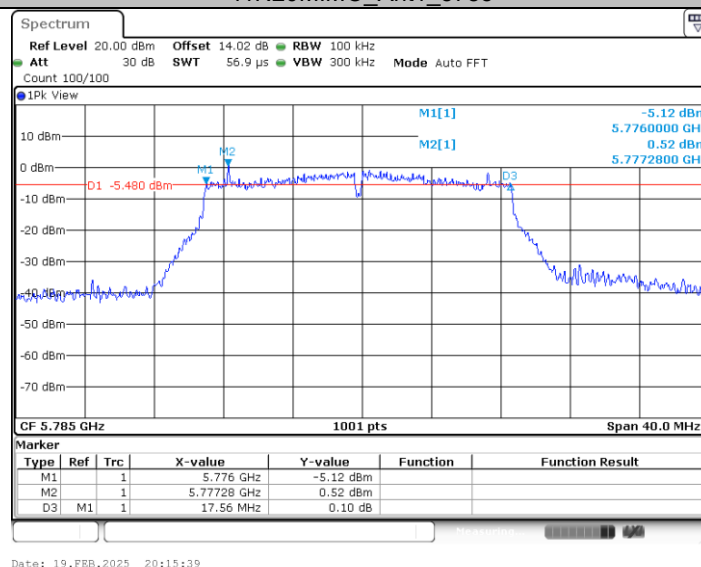
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11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



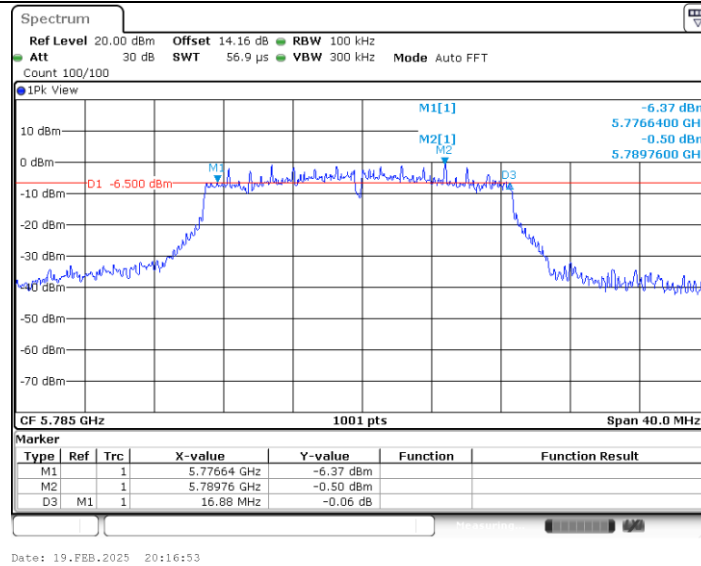
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CTC Laboratories, Inc.

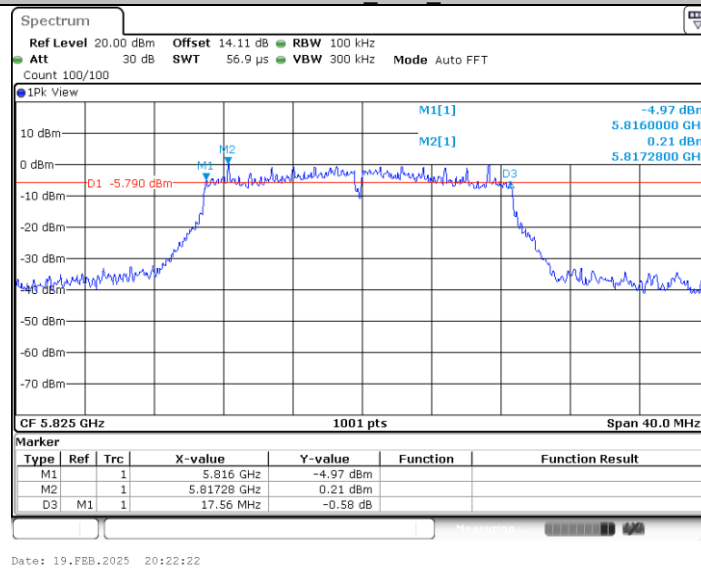
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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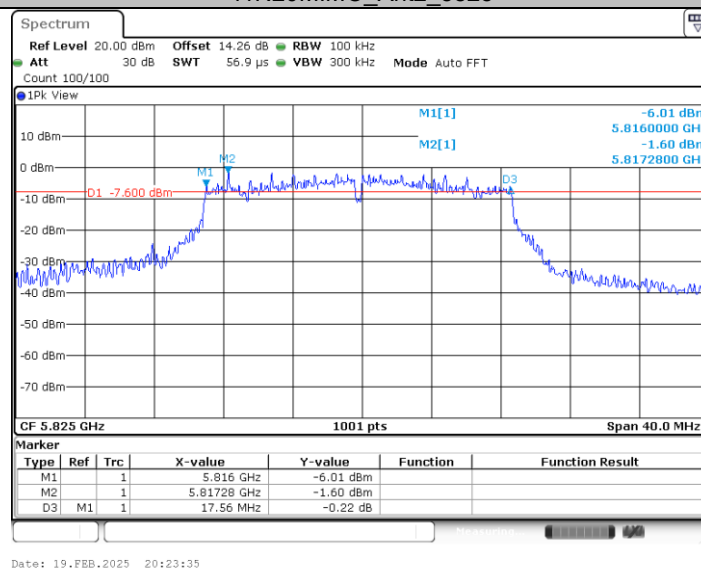
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11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



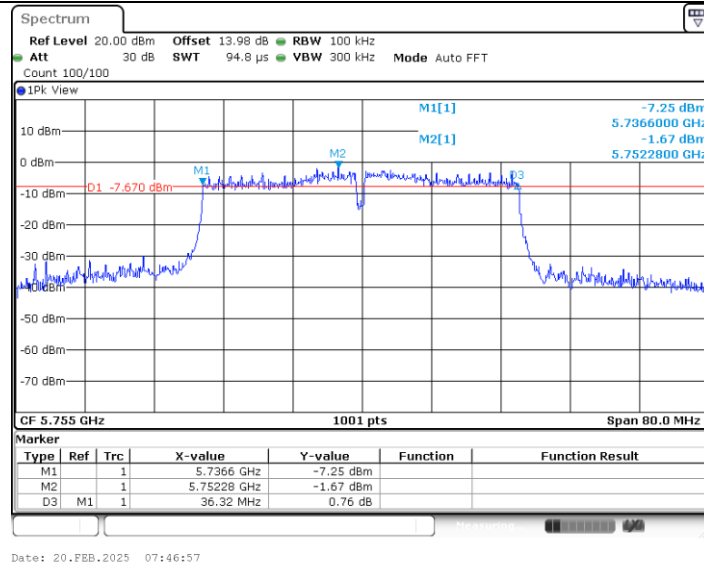
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CTC Laboratories, Inc.

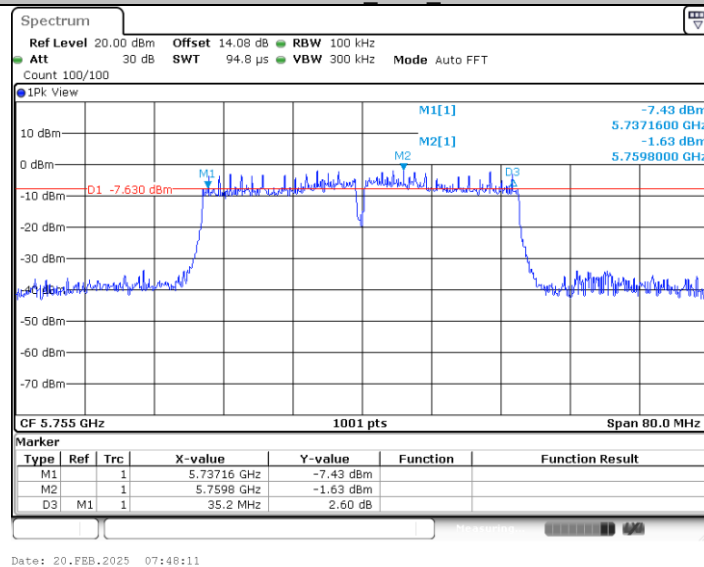
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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

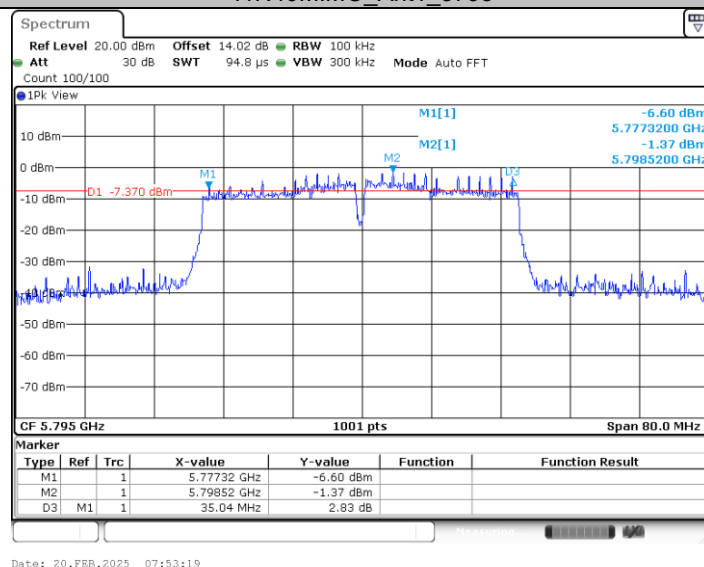
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11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



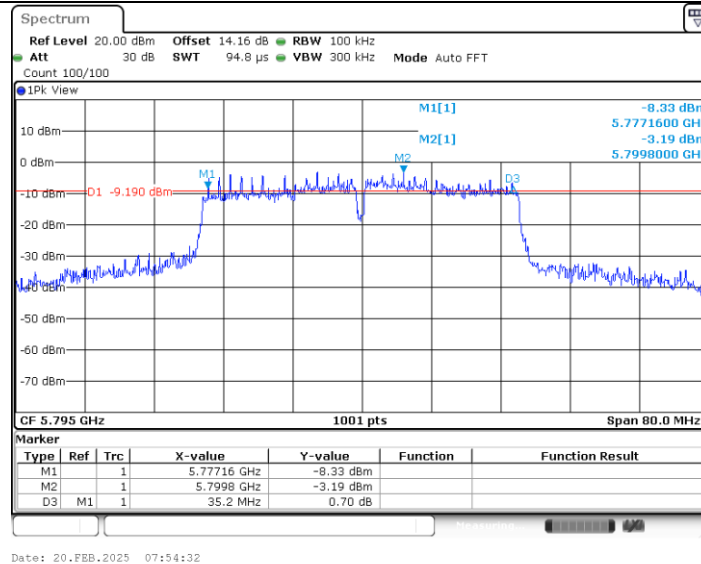
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CTC Laboratories, Inc.

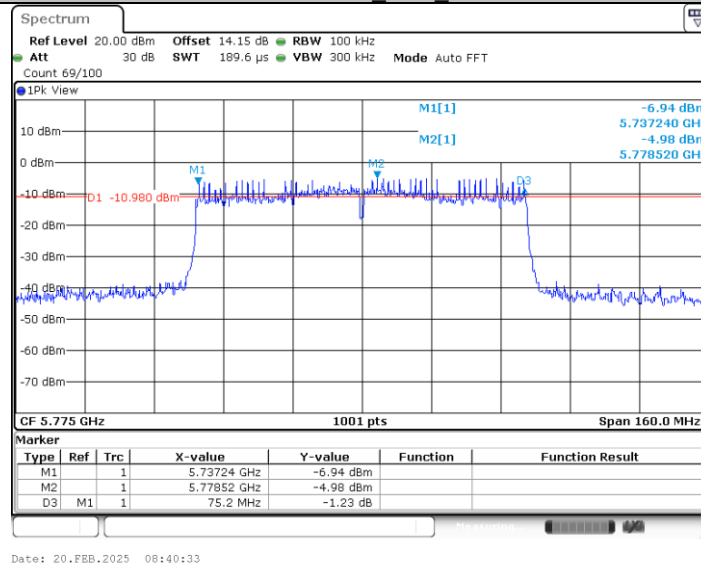
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict,
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Society : yz.cncaq.com

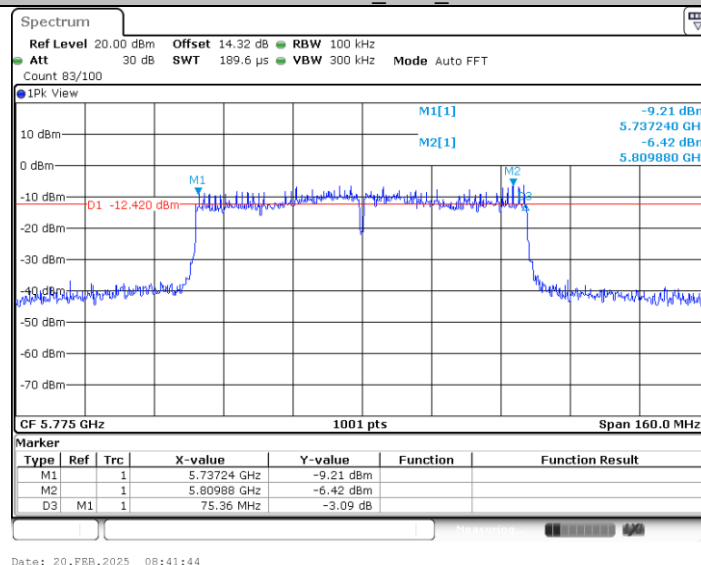
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11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



11AX20MIMO_Ant1_5745

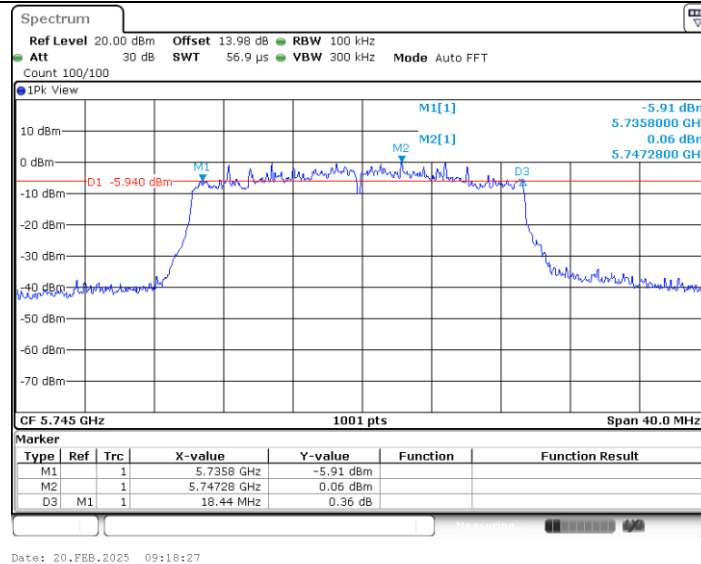
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

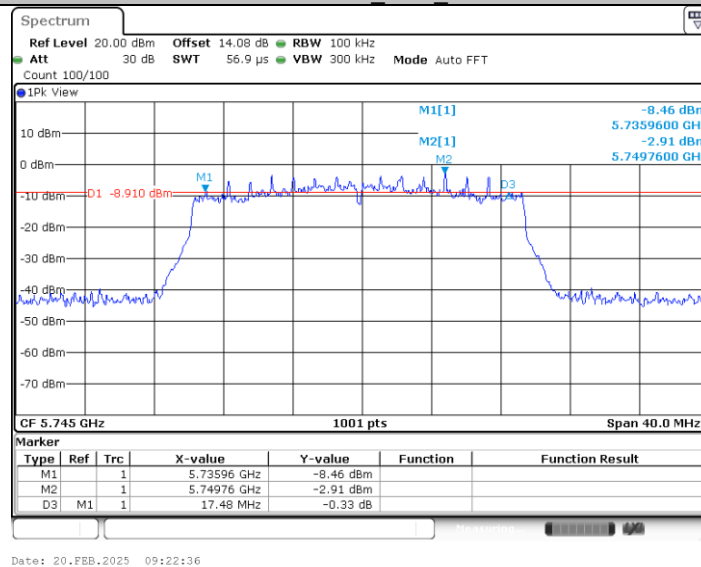
For anti-fake verification, please visit the official website of China Inspection And Testing

Society : yz.cncaq.com

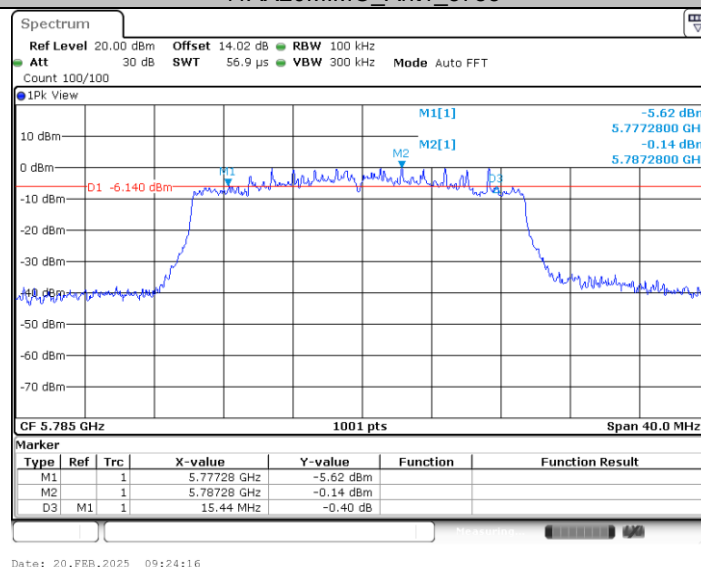
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11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



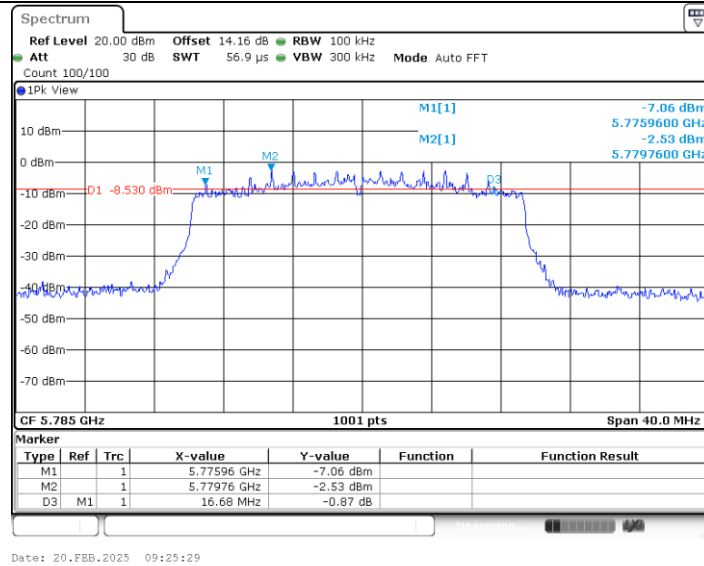
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CTC Laboratories, Inc.

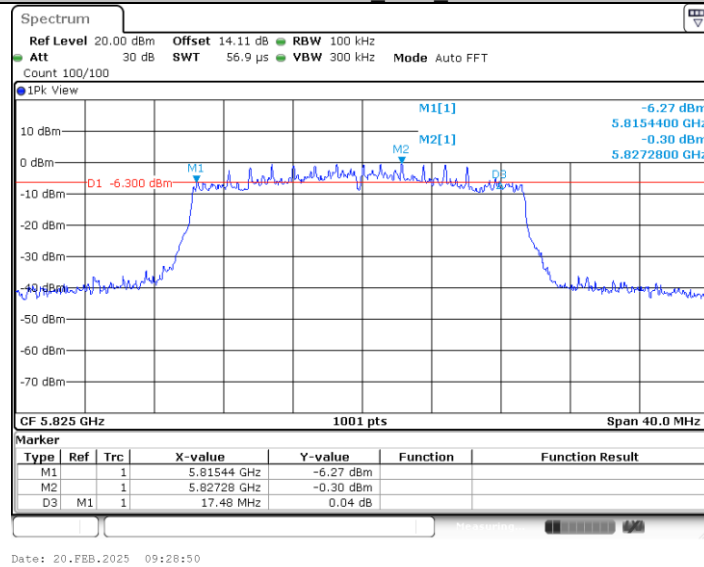
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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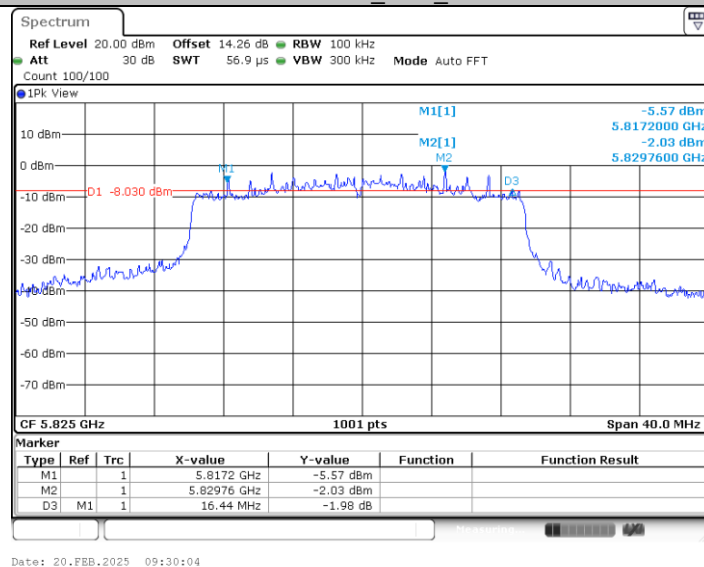
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11AX20MIMO_Ant1_5825



11AX20MIMO_Ant2_5825



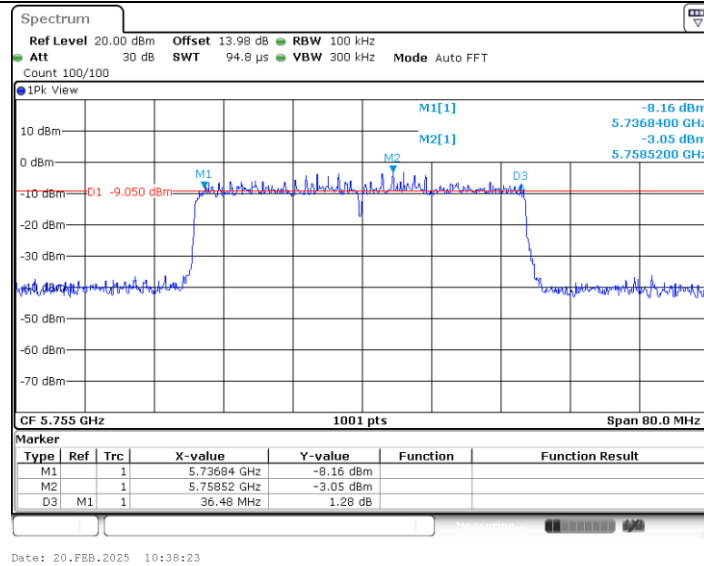
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CTC Laboratories, Inc.

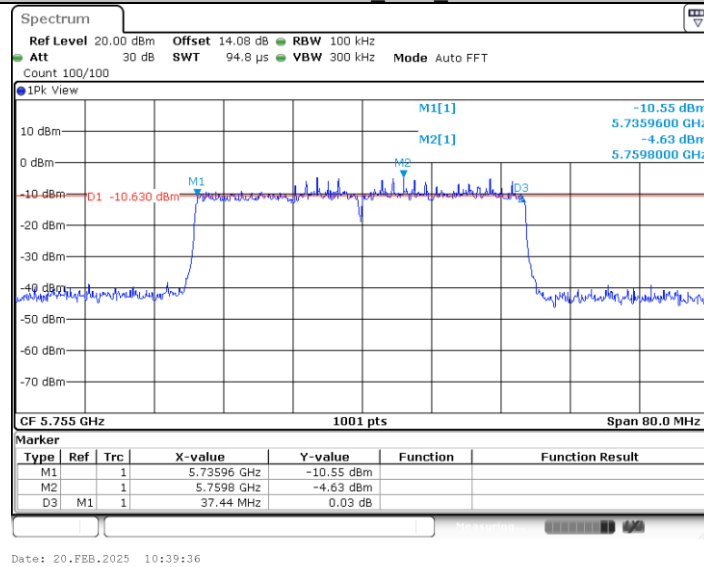
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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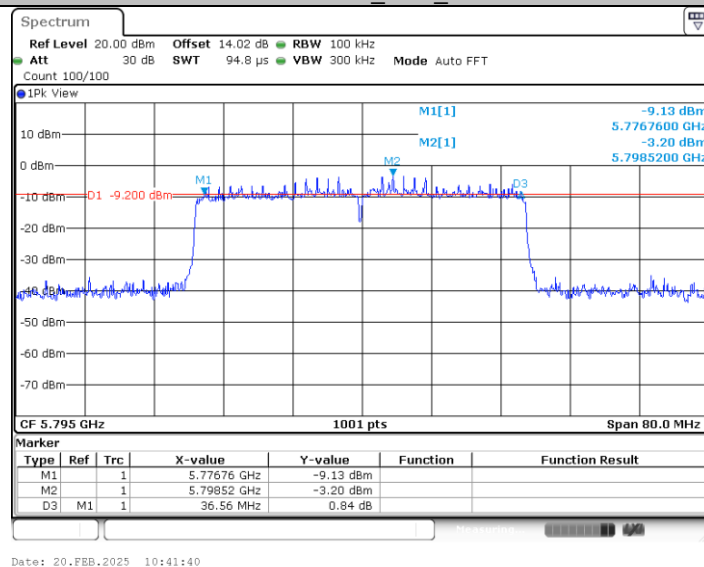
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11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



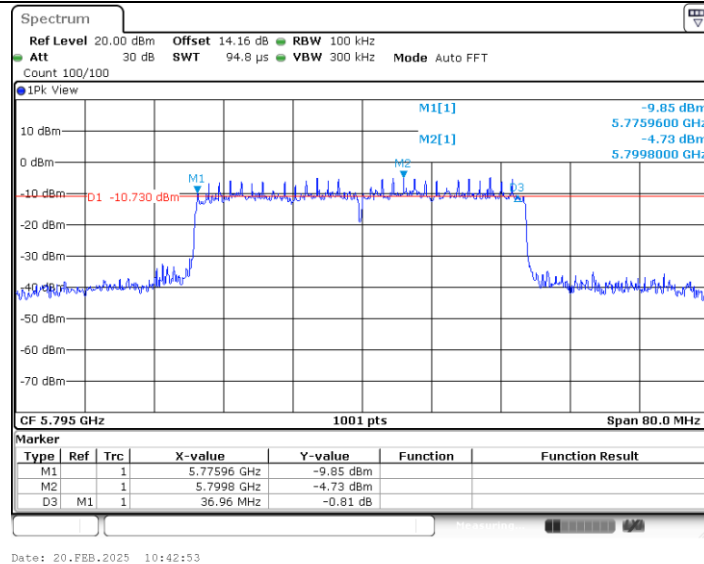
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CTC Laboratories, Inc.

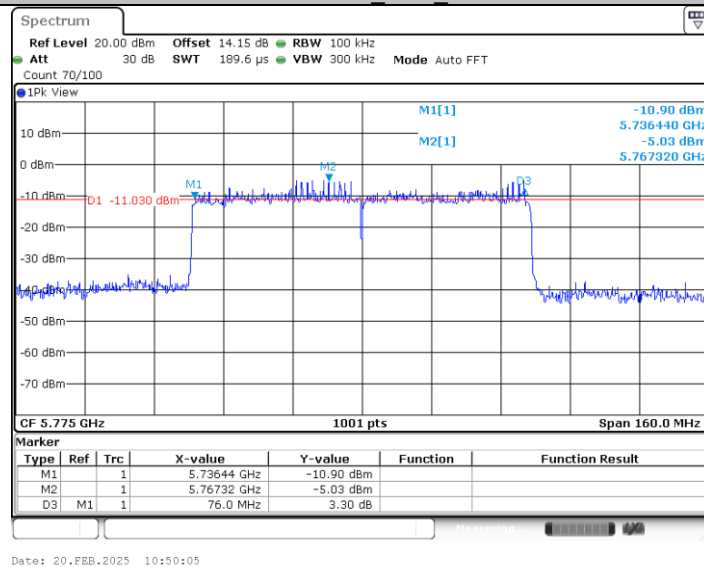
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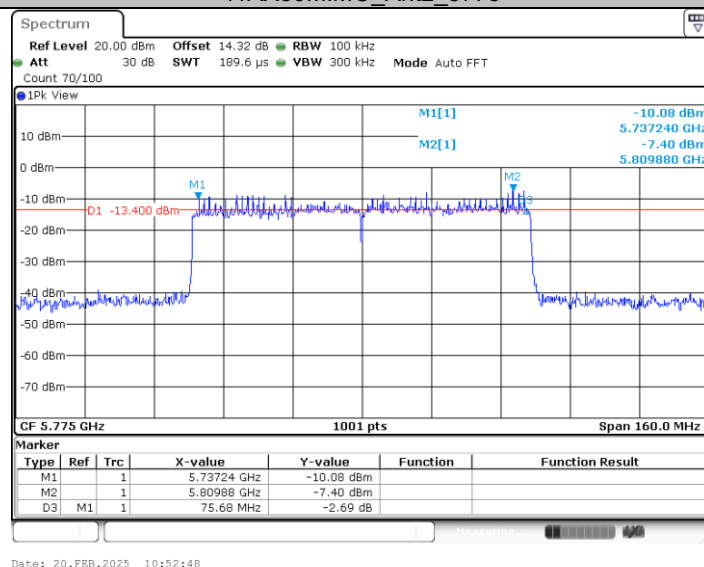
TRF No: CTC-TR-062_A2



11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



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TRF No: CTC-TR-062_A2



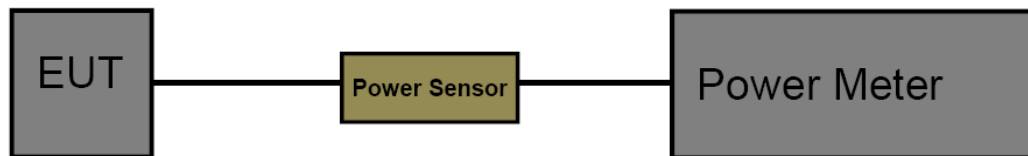
3.5. Output Power

Limit

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

Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

Test Configuration



Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Verdict
11A	Ant1	5180	13.37	PASS
	Ant2	5180	13.95	PASS
	Ant1	5200	13.47	PASS
	Ant2	5200	13.67	PASS
	Ant1	5240	13.74	PASS
	Ant2	5240	13.66	PASS
	Ant1	5745	13.75	PASS
	Ant2	5745	13.73	PASS
	Ant1	5785	13.60	PASS
	Ant2	5785	14.51	PASS
	Ant1	5825	13.37	PASS
	Ant2	5825	14.70	PASS
11N20MIMO	Ant1	5180	11.54	PASS
	Ant2	5180	10.74	PASS
	total	5180	14.17	PASS
	Ant1	5200	11.71	PASS
	Ant2	5200	10.60	PASS
	total	5200	14.20	PASS
	Ant1	5240	12.14	PASS
	Ant2	5240	10.45	PASS
	total	5240	14.39	PASS
	Ant1	5745	12.79	PASS
	Ant2	5745	10.77	PASS
	total	5745	14.91	PASS
	Ant1	5785	12.76	PASS
	Ant2	5785	10.69	PASS
	total	5785	14.86	PASS
	Ant1	5825	12.55	PASS
	Ant2	5825	10.71	PASS
	total	5825	14.74	PASS
11N40MIMO	Ant1	5190	12.06	PASS
	Ant2	5190	11.11	PASS
	total	5190	14.62	PASS
	Ant1	5230	12.63	PASS
	Ant2	5230	11.20	PASS
	total	5230	14.98	PASS
	Ant1	5755	12.76	PASS
	Ant2	5755	11.11	PASS
	total	5755	15.02	PASS
	Ant1	5795	12.48	PASS
	Ant2	5795	10.85	PASS
	total	5795	14.75	PASS
11AC20MIMO	Ant1	5180	10.85	PASS
	Ant2	5180	10.02	PASS
	total	5180	13.47	PASS
	Ant1	5200	10.94	PASS
	Ant2	5200	9.79	PASS
	total	5200	13.41	PASS
	Ant1	5240	11.11	PASS
	Ant2	5240	9.64	PASS
	total	5240	13.45	PASS
	Ant1	5745	11.87	PASS
	Ant2	5745	9.77	PASS
	total	5745	13.96	PASS
	Ant1	5785	11.74	PASS
	Ant2	5785	9.51	PASS
	total	5785	13.78	PASS
	Ant1	5825	11.41	PASS
	Ant2	5825	9.60	PASS
	total	5825	13.61	PASS
11AC40MIMO	Ant1	5190	11.41	PASS

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	Ant2	5190	10.30	PASS
	total	5190	13.90	PASS
	Ant1	5230	10.92	PASS
	Ant2	5230	9.05	PASS
	total	5230	13.10	PASS
	Ant1	5755	11.48	PASS
	Ant2	5755	9.60	PASS
	total	5755	13.65	PASS
	Ant1	5795	11.10	PASS
	Ant2	5795	9.42	PASS
11AC80MIMO	total	5795	13.35	PASS
	Ant1	5210	11.60	PASS
	Ant2	5210	10.27	PASS
	total	5210	14.00	PASS
	Ant1	5775	11.54	PASS
	Ant2	5775	9.68	PASS
11AX20MIMO	total	5775	13.72	PASS
	Ant1	5180	10.88	PASS
	Ant2	5180	10.19	PASS
	total	5180	13.56	PASS
	Ant1	5200	10.97	PASS
	Ant2	5200	9.95	PASS
	total	5200	13.50	PASS
	Ant1	5240	11.44	PASS
	Ant2	5240	9.74	PASS
	total	5240	13.68	PASS
	Ant1	5745	10.92	PASS
	Ant2	5745	8.50	PASS
	total	5745	12.89	PASS
	Ant1	5785	11.86	PASS
	Ant2	5785	9.49	PASS
	total	5785	13.85	PASS
	Ant1	5825	11.59	PASS
	Ant2	5825	9.69	PASS
	total	5825	13.75	PASS
11AX40MIMO	Ant1	5190	11.54	PASS
	Ant2	5190	10.57	PASS
	total	5190	14.09	PASS
	Ant1	5230	11.03	PASS
	Ant2	5230	9.24	PASS
	total	5230	13.24	PASS
	Ant1	5755	11.67	PASS
	Ant2	5755	9.78	PASS
	total	5755	13.84	PASS
	Ant1	5795	11.32	PASS
	Ant2	5795	9.58	PASS
	total	5795	13.55	PASS
11AX80MIMO	Ant1	5210	11.78	PASS
	Ant2	5210	10.64	PASS
	total	5210	14.26	PASS
	Ant1	5775	11.95	PASS
	Ant2	5775	10.11	PASS
	total	5775	14.14	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:

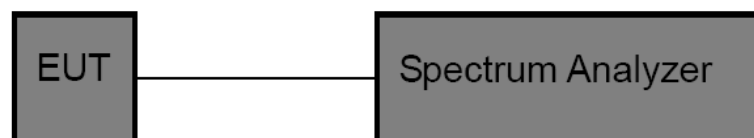
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

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) Use 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	2.84	≤11.00	PASS
	Ant2	5180	3.47	≤11.00	PASS
	Ant1	5200	3.13	≤11.00	PASS
	Ant2	5200	3.81	≤11.00	PASS
	Ant1	5240	3.23	≤11.00	PASS
	Ant2	5240	3.19	≤11.00	PASS
	Ant1	5745	0.67	≤30.00	PASS
	Ant2	5745	0.52	≤30.00	PASS
	Ant1	5785	0.42	≤30.00	PASS
	Ant2	5785	1.41	≤30.00	PASS
	Ant1	5825	0.34	≤30.00	PASS
	Ant2	5825	1.50	≤30.00	PASS
11N20MIMO	Ant1	5180	0.49	≤11.00	PASS
	Ant2	5180	0.27	≤11.00	PASS
	total	5180	3.39	≤11.00	PASS
	Ant1	5200	1.01	≤11.00	PASS
	Ant2	5200	0.26	≤11.00	PASS
	total	5200	3.66	≤11.00	PASS
	Ant1	5240	1.46	≤11.00	PASS
	Ant2	5240	0.16	≤11.00	PASS
	total	5240	3.87	≤11.00	PASS
	Ant1	5745	-0.79	≤30.00	PASS
	Ant2	5745	-2.93	≤30.00	PASS
	total	5745	1.28	≤30.00	PASS
	Ant1	5785	-0.22	≤30.00	PASS
	Ant2	5785	-2.82	≤30.00	PASS
	total	5785	1.68	≤30.00	PASS
	Ant1	5825	-0.91	≤30.00	PASS
	Ant2	5825	-2.58	≤30.00	PASS
	total	5825	1.35	≤30.00	PASS
11N40MIMO	Ant1	5190	-1.10	≤11.00	PASS
	Ant2	5190	-1.69	≤11.00	PASS
	total	5190	1.63	≤11.00	PASS
	Ant1	5230	-0.84	≤11.00	PASS
	Ant2	5230	-1.93	≤11.00	PASS
	total	5230	1.66	≤11.00	PASS
	Ant1	5755	-3.60	≤30.00	PASS
	Ant2	5755	-4.80	≤30.00	PASS
	total	5755	-1.15	≤30.00	PASS
	Ant1	5795	-3.98	≤30.00	PASS
	Ant2	5795	-5.26	≤30.00	PASS
	total	5795	-1.56	≤30.00	PASS
11AC80MIMO	Ant1	5210	-4.89	≤11.00	PASS
	Ant2	5210	-5.66	≤11.00	PASS
	total	5210	-2.25	≤11.00	PASS
	Ant1	5775	-7.37	≤30.00	PASS
	Ant2	5775	-9.50	≤30.00	PASS
	total	5775	-5.30	≤30.00	PASS
11AX20MIMO	Ant1	5180	-0.02	≤11.00	PASS
	Ant2	5180	-0.57	≤11.00	PASS
	total	5180	2.72	≤11.00	PASS
	Ant1	5200	0.20	≤11.00	PASS
	Ant2	5200	-0.80	≤11.00	PASS

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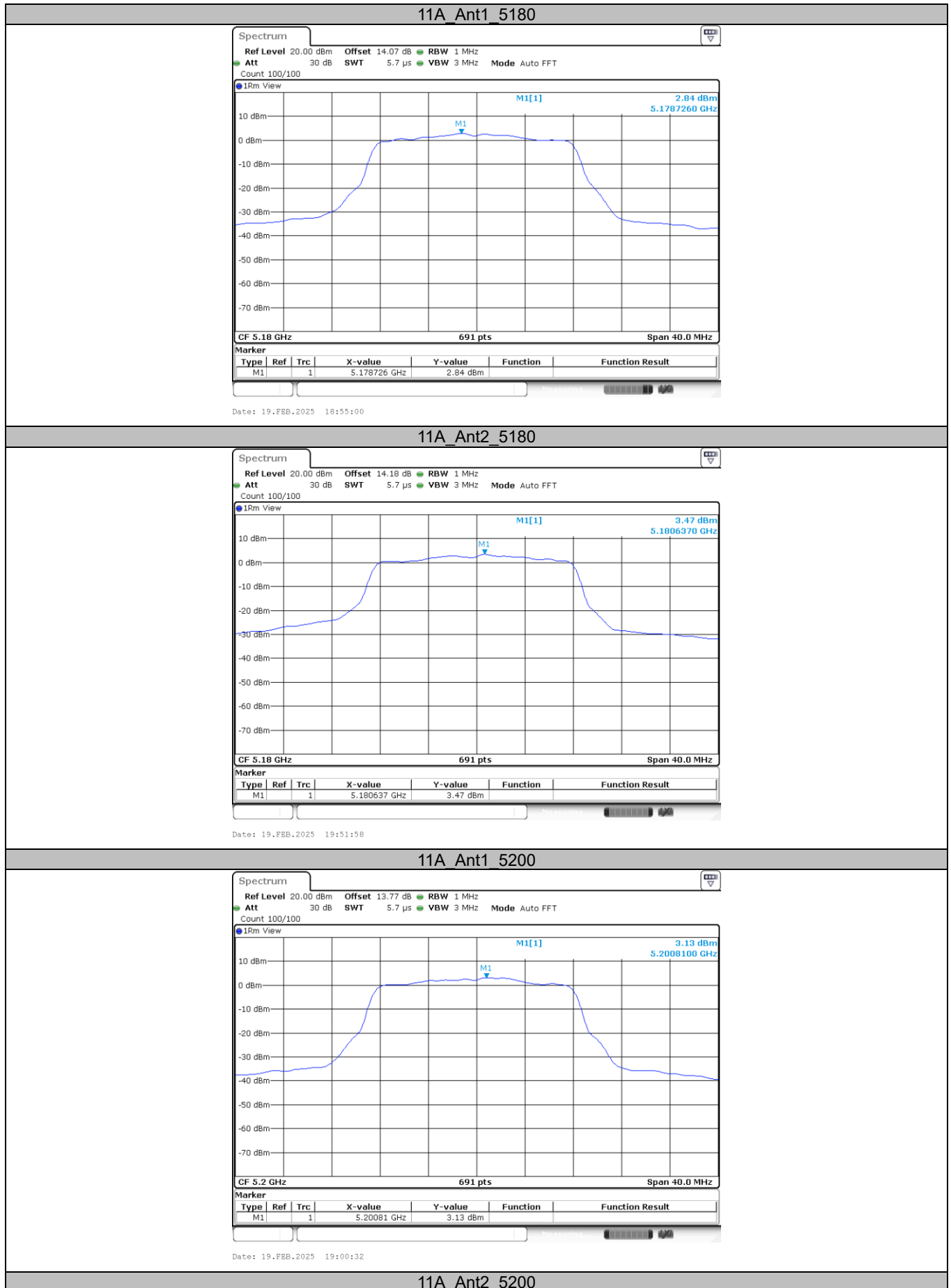
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	total	5200	2.74	≤11.00	PASS
	Ant1	5240	1.30	≤11.00	PASS
	Ant2	5240	-0.53	≤11.00	PASS
	total	5240	3.49	≤11.00	PASS
	Ant1	5745	-2.53	≤30.00	PASS
	Ant2	5745	-4.57	≤30.00	PASS
	total	5745	-0.42	≤30.00	PASS
	Ant1	5785	-1.64	≤30.00	PASS
	Ant2	5785	-4.14	≤30.00	PASS
	total	5785	0.30	≤30.00	PASS
	Ant1	5825	-2.04	≤30.00	PASS
	Ant2	5825	-3.55	≤30.00	PASS
	total	5825	0.28	≤30.00	PASS
11AX40MIMO	Ant1	5190	-2.20	≤11.00	PASS
	Ant2	5190	-3.92	≤11.00	PASS
	total	5190	0.03	≤11.00	PASS
	Ant1	5230	-3.11	≤11.00	PASS
	Ant2	5230	-5.36	≤11.00	PASS
	total	5230	-1.08	≤11.00	PASS
	Ant1	5755	-5.39	≤30.00	PASS
	Ant2	5755	-7.62	≤30.00	PASS
	total	5755	-3.35	≤30.00	PASS
	Ant1	5795	-5.58	≤30.00	PASS
	Ant2	5795	-7.73	≤30.00	PASS
	total	5795	-3.51	≤30.00	PASS
11AX80MIMO	Ant1	5210	-5.50	≤11.00	PASS
	Ant2	5210	-6.35	≤11.00	PASS
	total	5210	-2.89	≤11.00	PASS
	Ant1	5775	-7.50	≤30.00	PASS
	Ant2	5775	-9.79	≤30.00	PASS
	total	5775	-5.49	≤30.00	PASS



Test plot as follows:



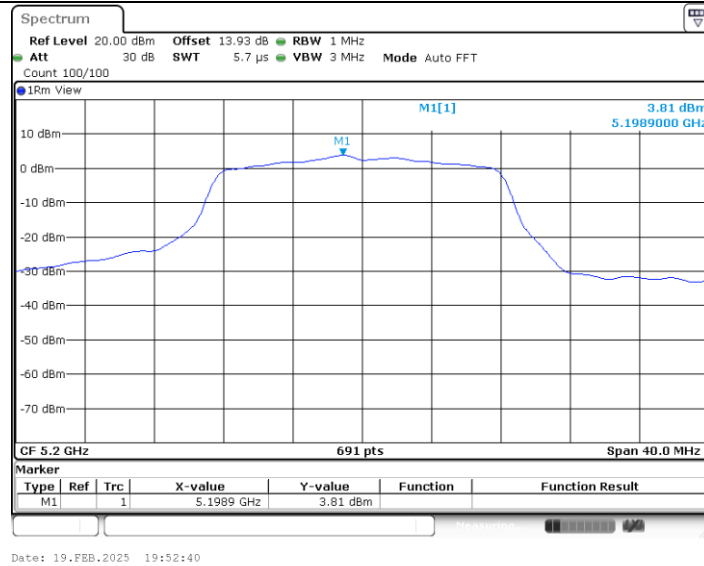
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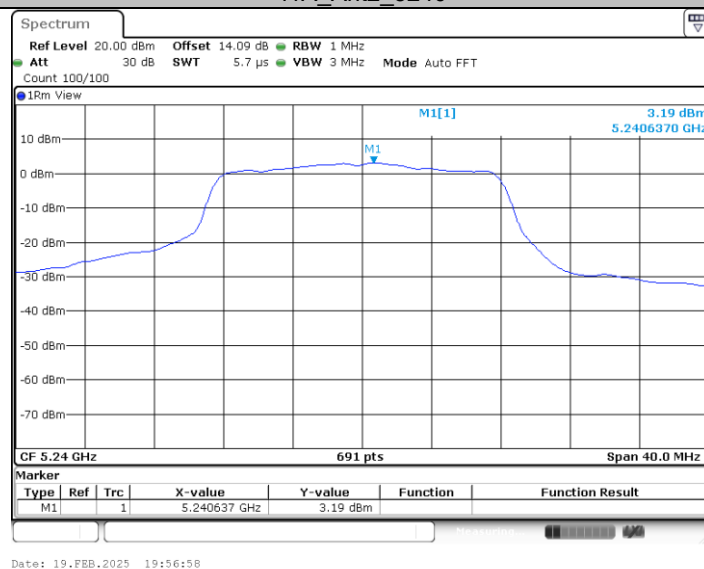
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11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5745

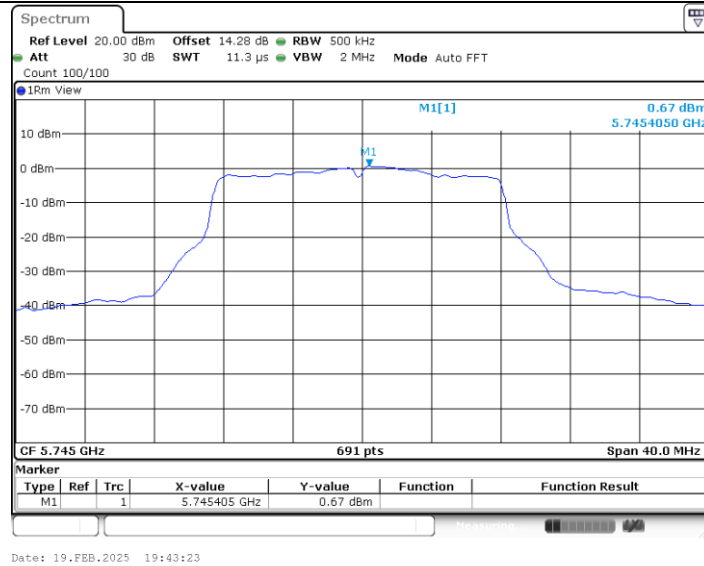
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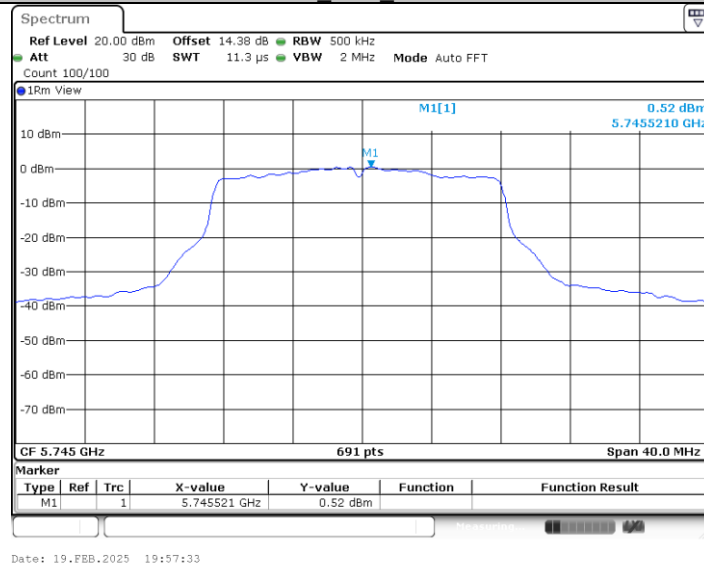
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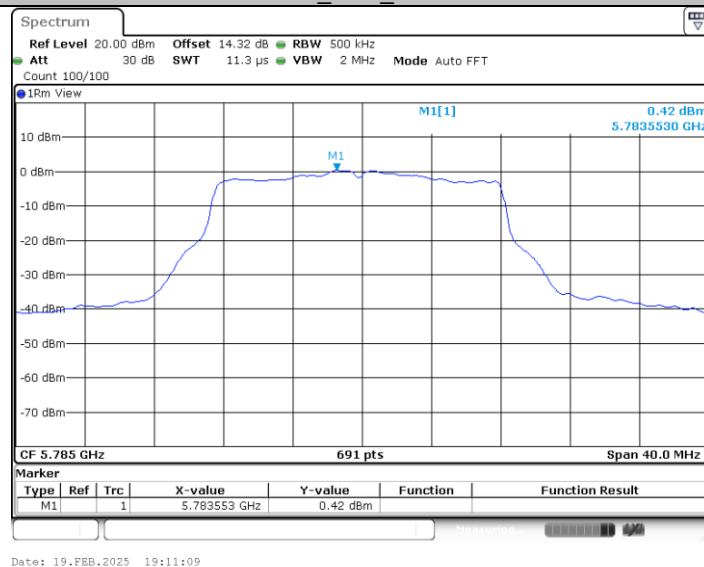
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11A_Ant2_5745



11A_Ant1_5785



11A_Ant2_5785

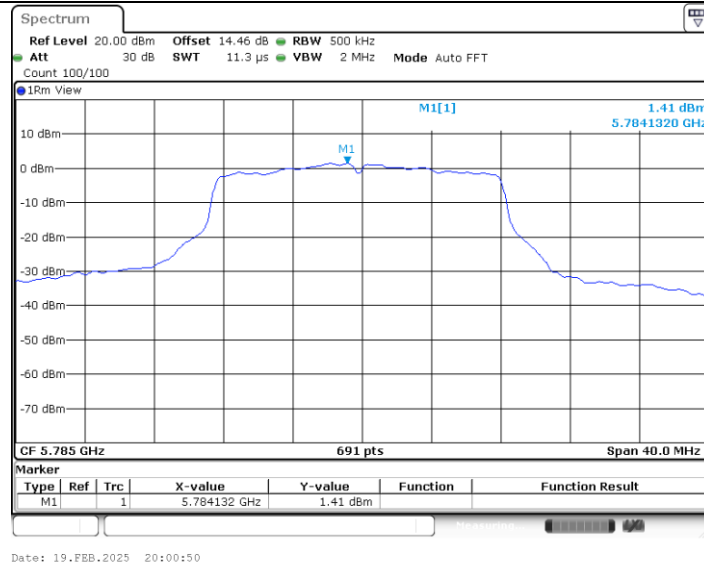
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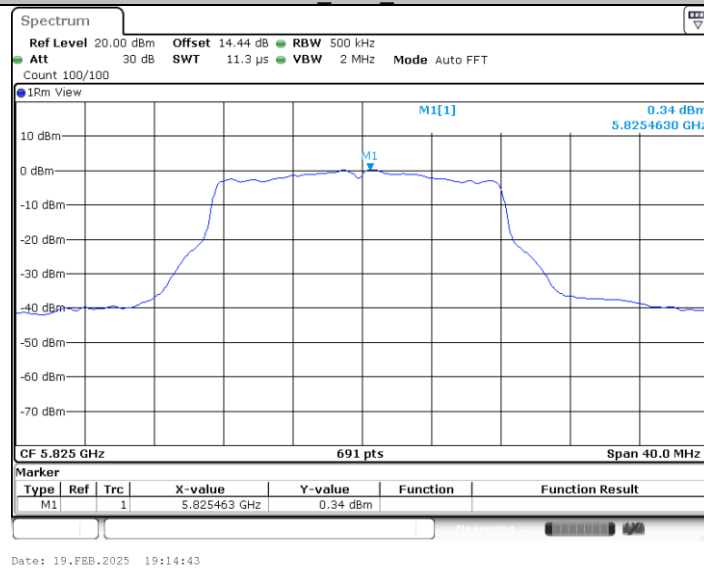
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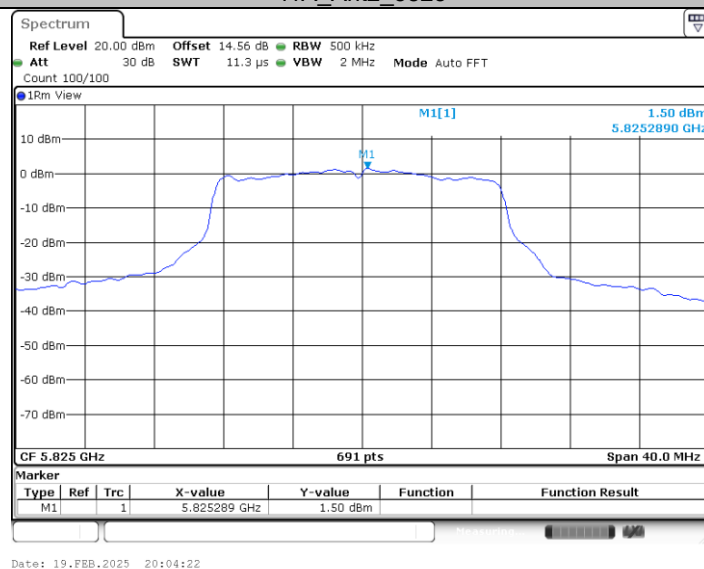
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11A_Ant1_5825



11A_Ant2_5825



11N20MIMO_Ant1_5180

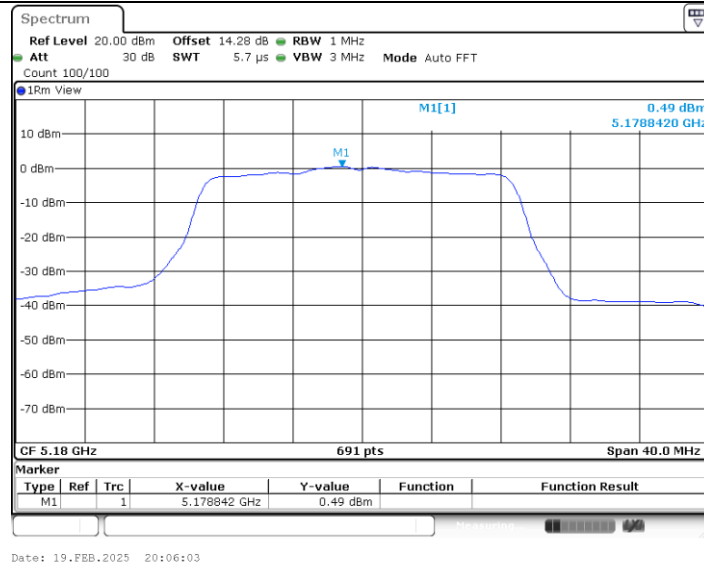
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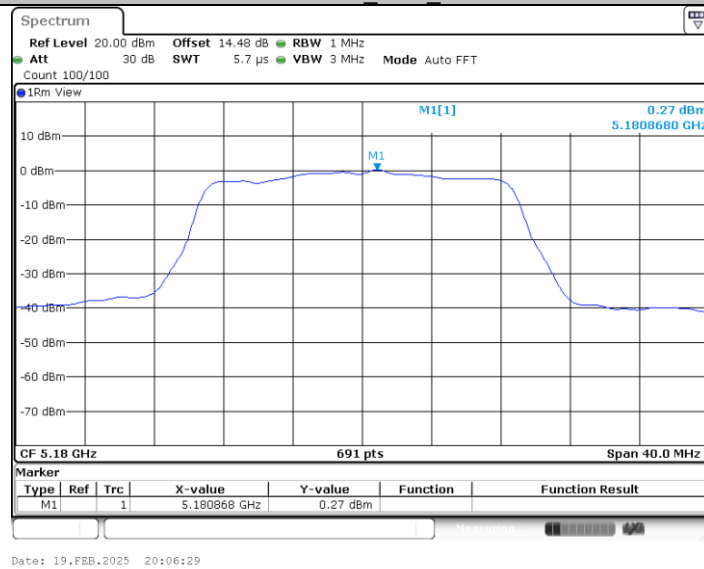
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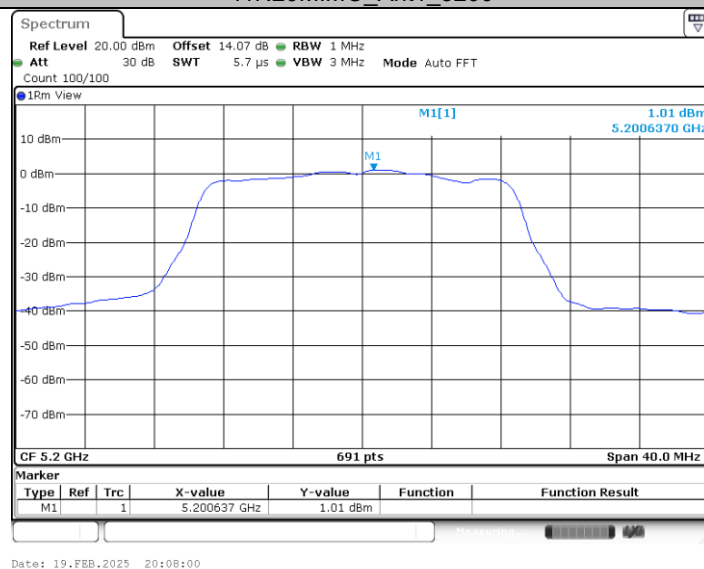
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11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200

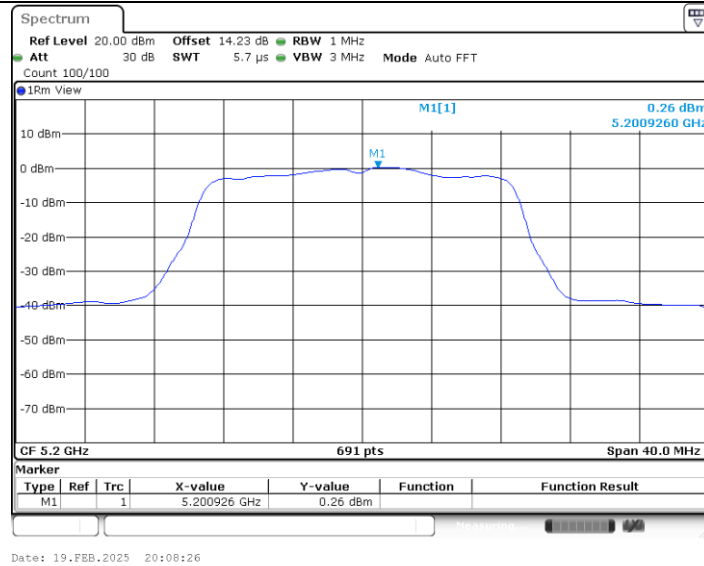
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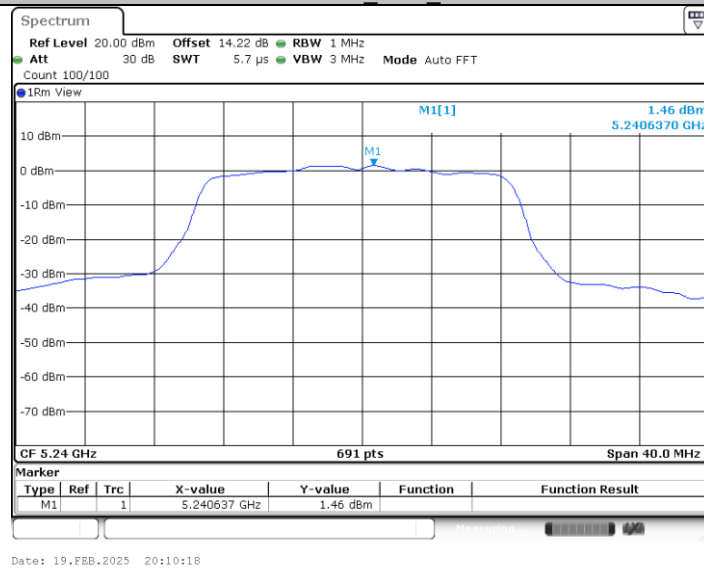
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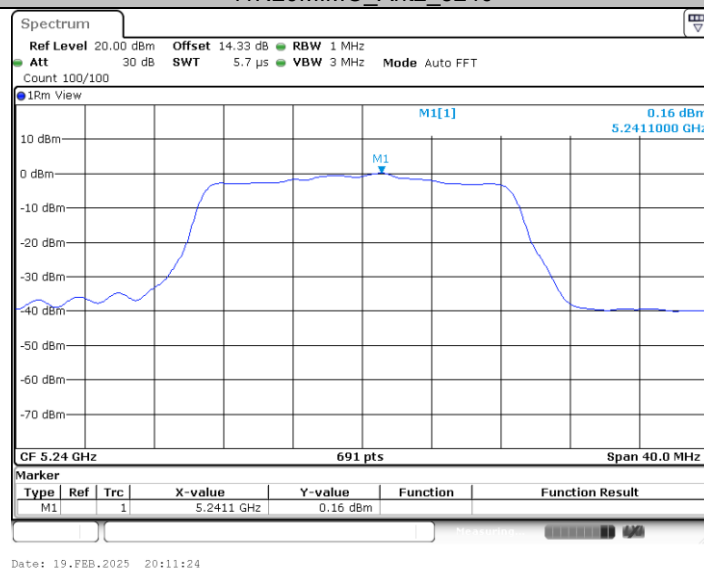
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11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



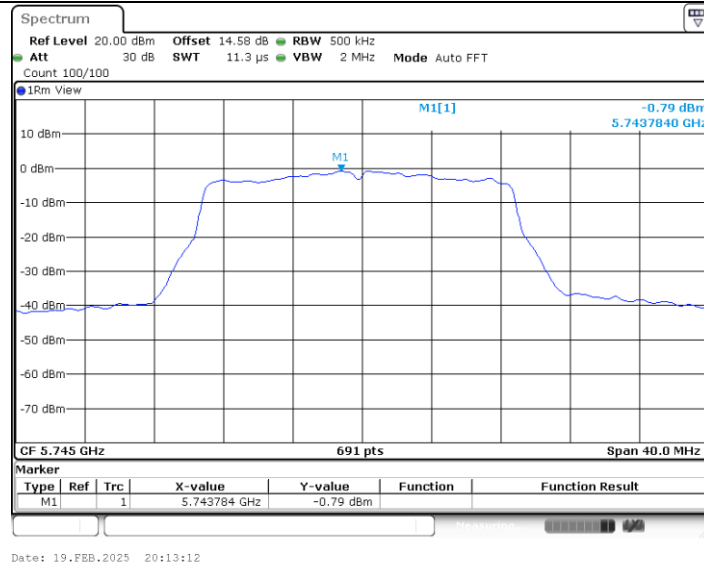
11N20MIMO_Ant1_5745

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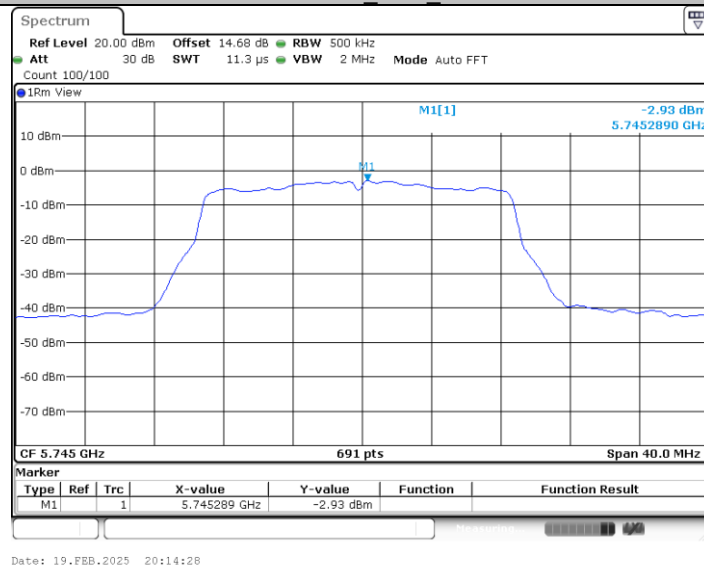
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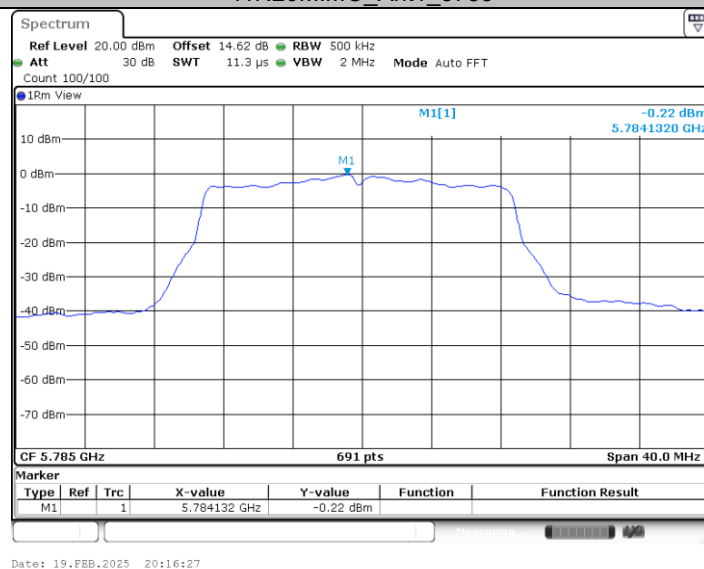
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11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



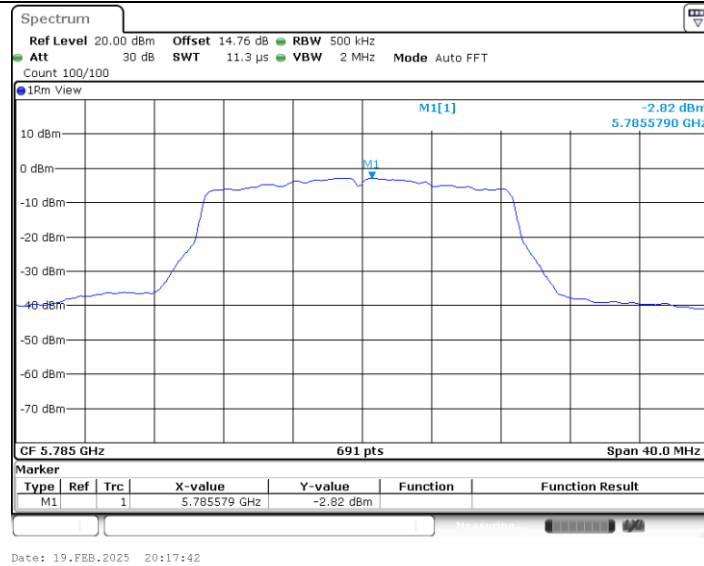
11N20MIMO_Ant2_5785

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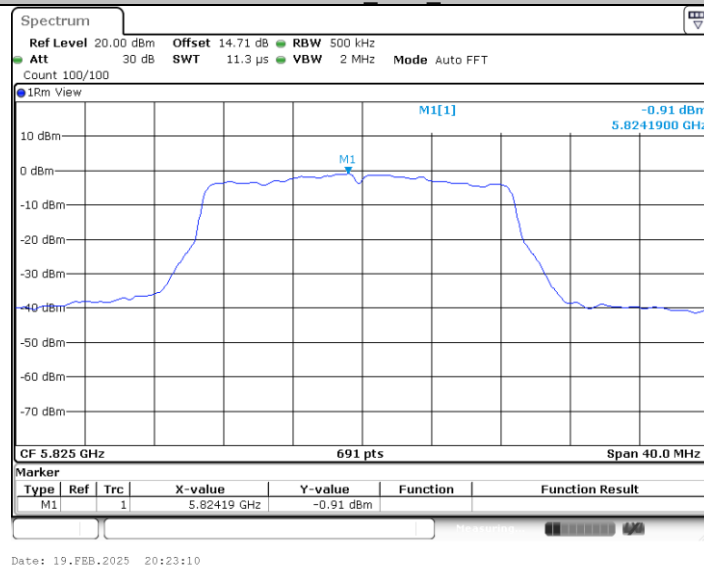
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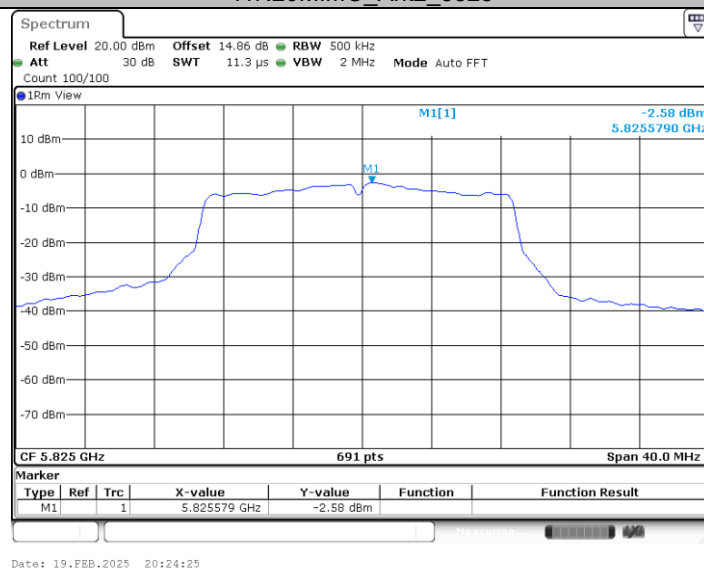
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11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190

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