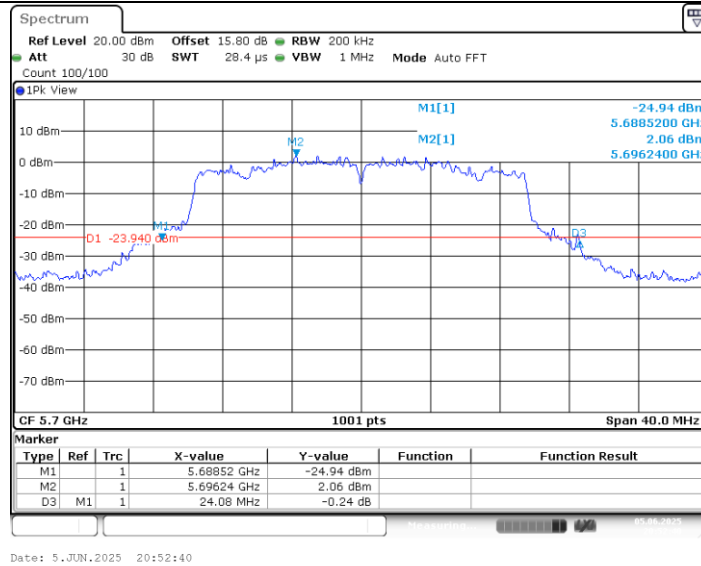
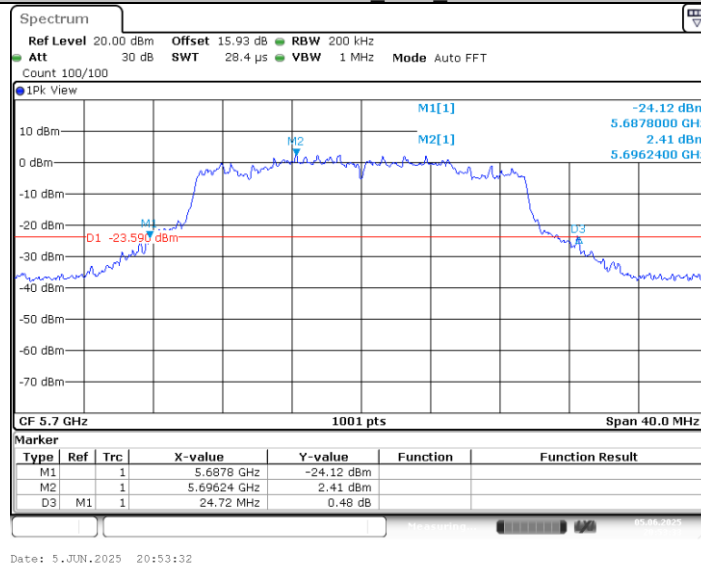
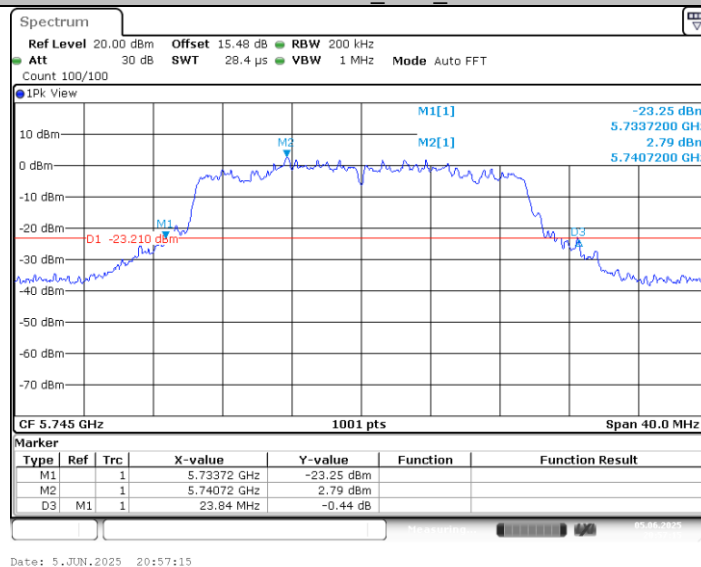




11AX20MIMO_Ant2_5700



11AX20MIMO_Ant1_5745



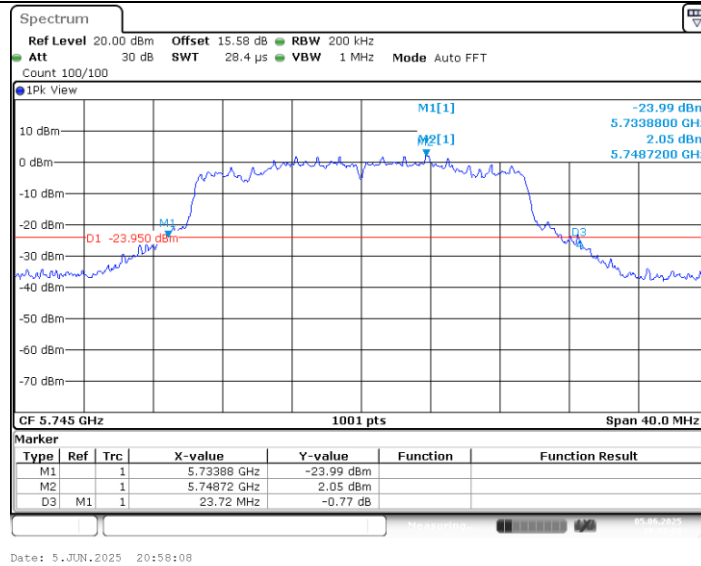
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CTC Laboratories, Inc.

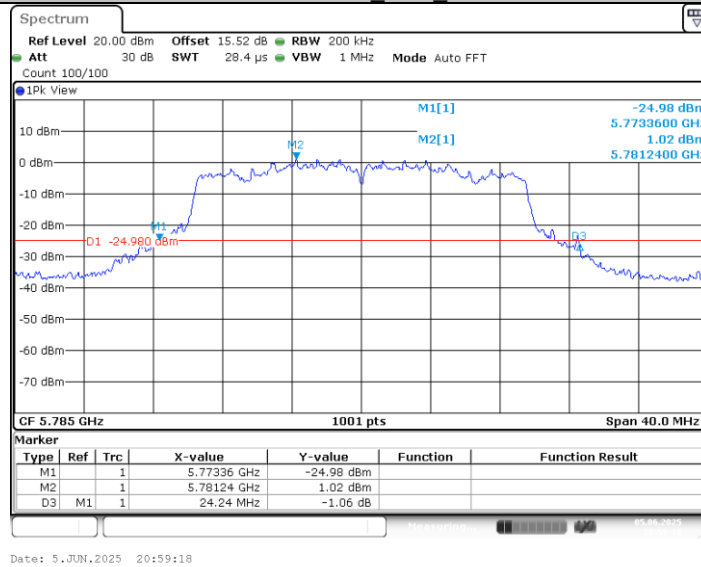
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

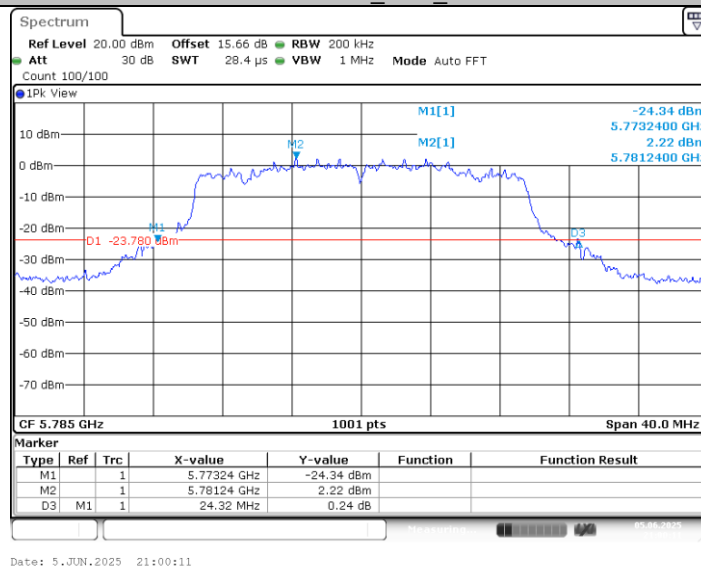
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX20MIMO_Ant1_5785



11AX20MIMO_Ant2_5785



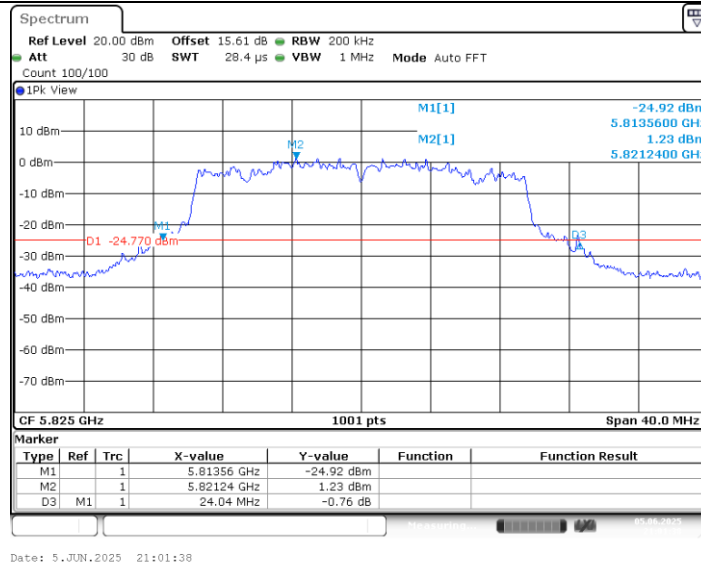
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CTC Laboratories, Inc.

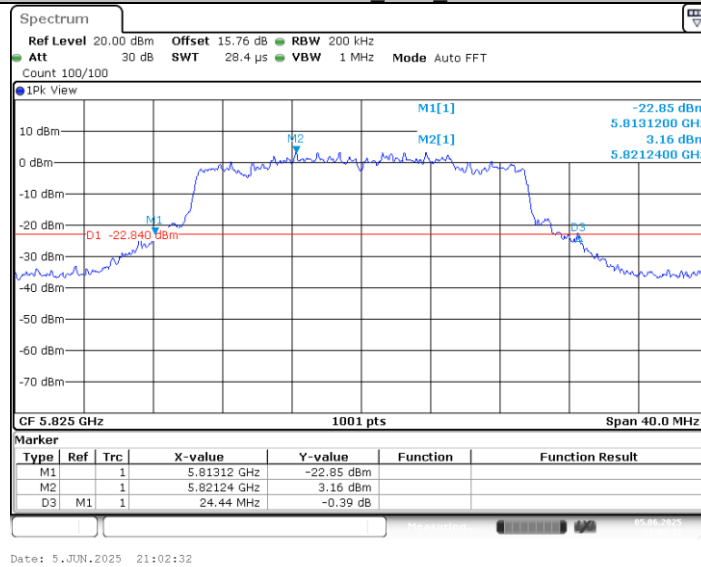
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

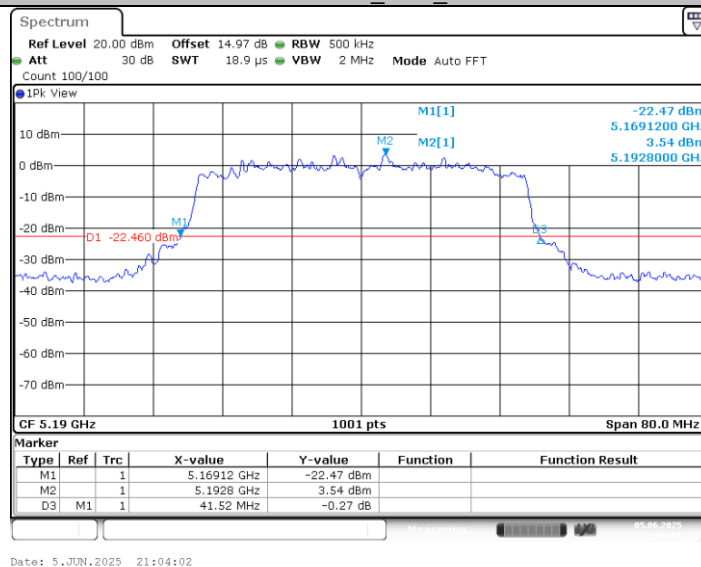
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11AX20MIMO_Ant2_5825



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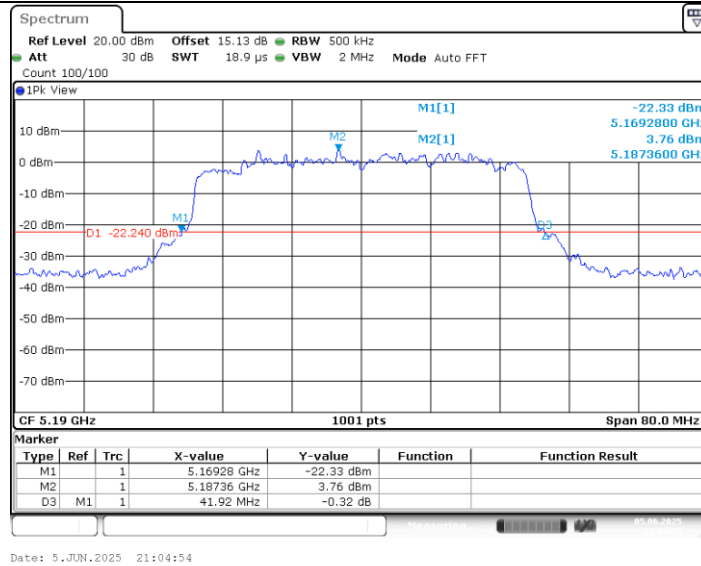
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CTC Laboratories, Inc.

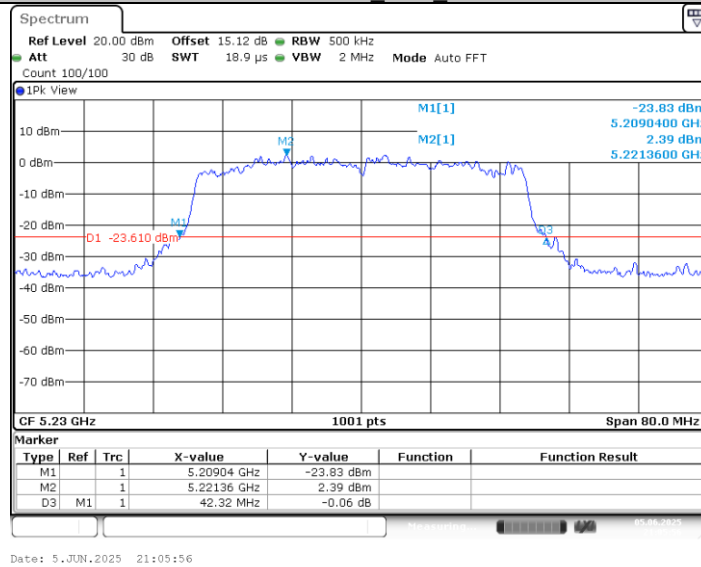
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

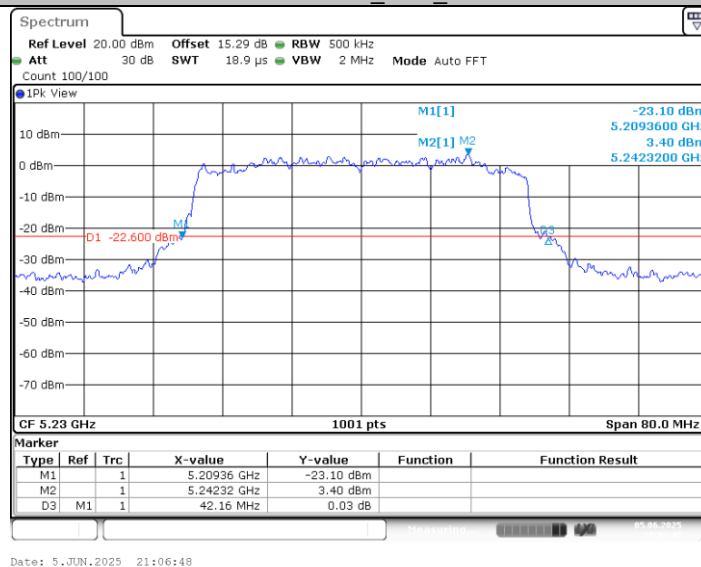
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11AX40MIMO_Ant1_5230



11AX40MIMO_Ant2_5230



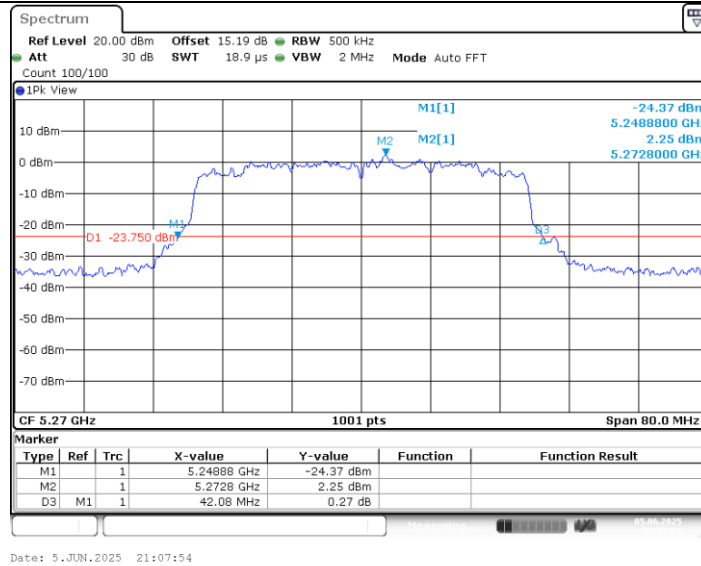
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CTC Laboratories, Inc.

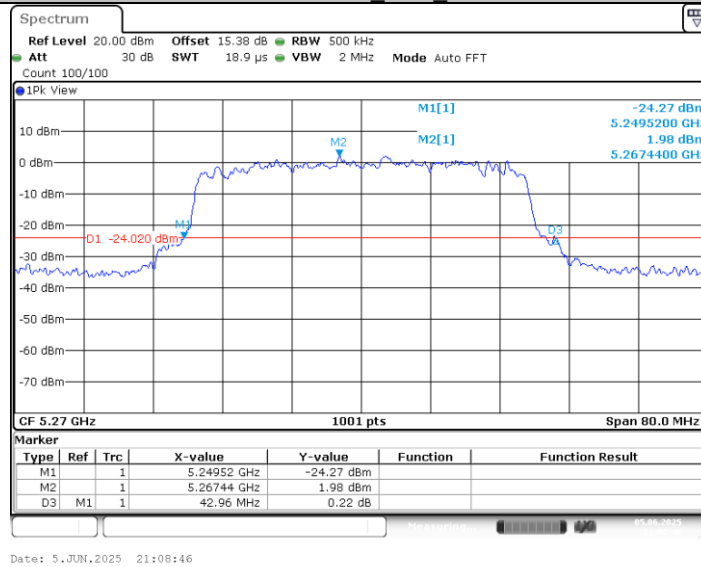
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

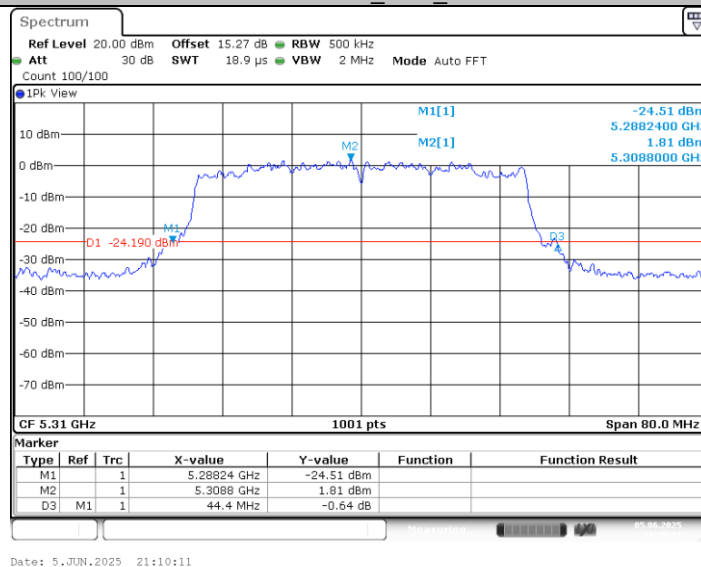
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11AX40MIMO_Ant2_5270



11AX40MIMO_Ant1_5310



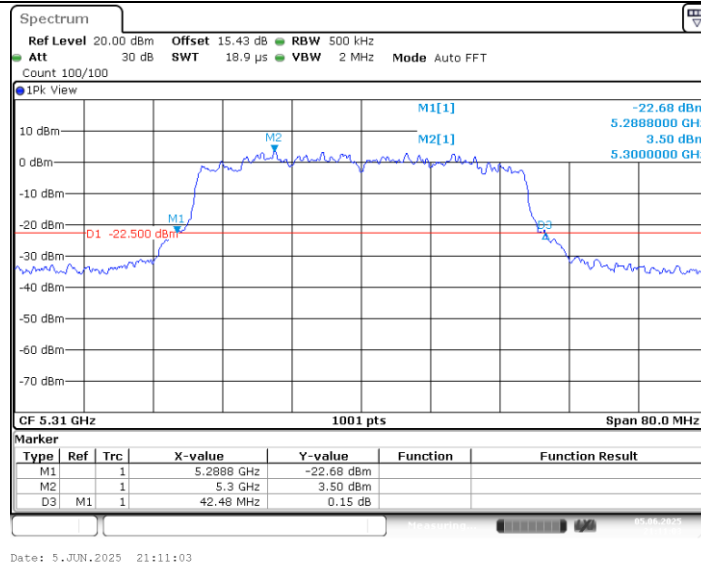
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CTC Laboratories, Inc.

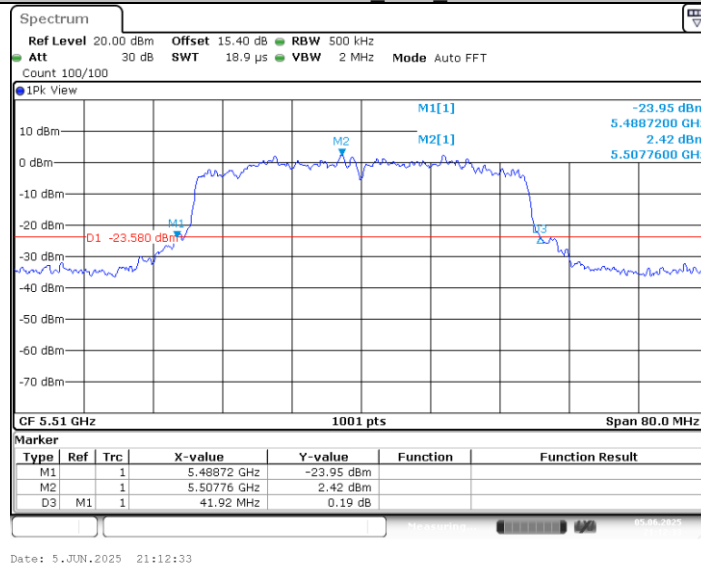
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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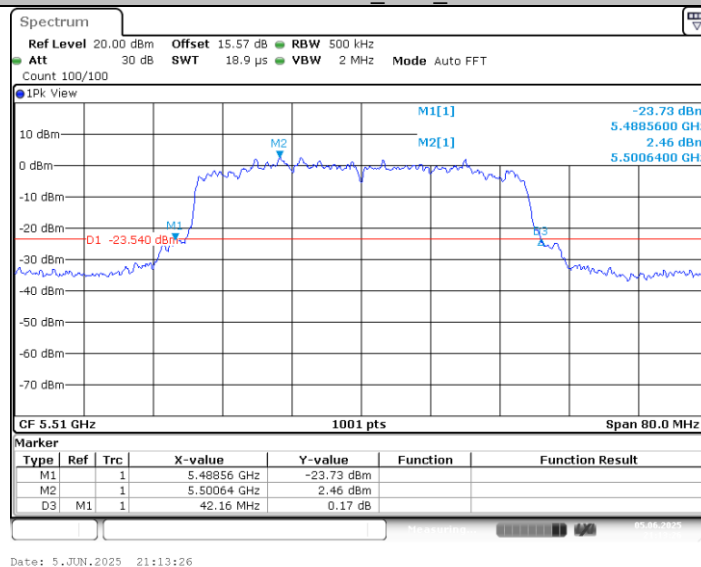
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11AX40MIMO_Ant1_5510



11AX40MIMO_Ant2_5510



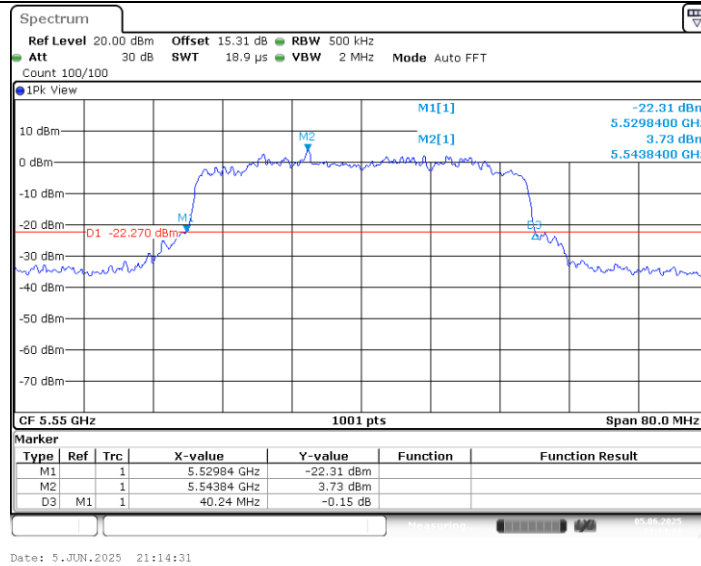
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CTC Laboratories, Inc.

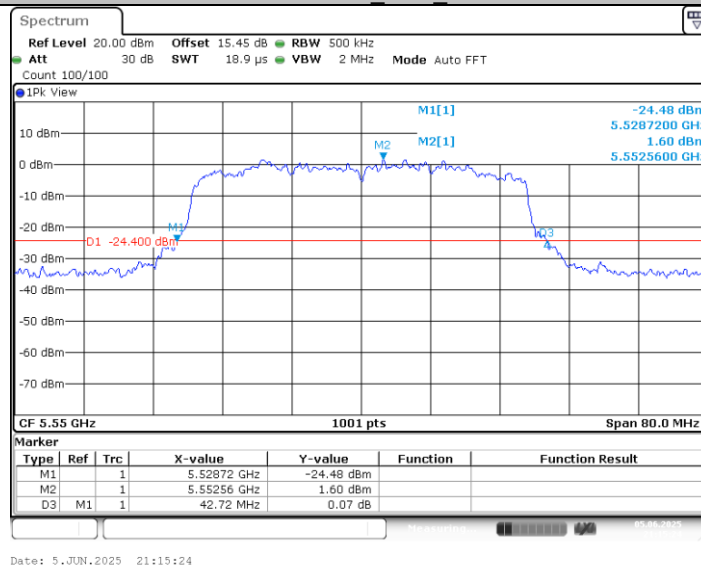
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

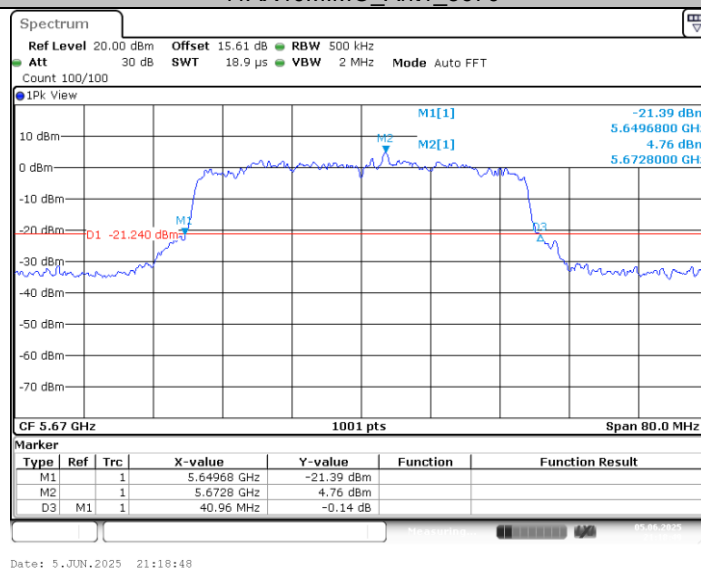
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11AX40MIMO_Ant2_5550



11AX40MIMO_Ant1_5670



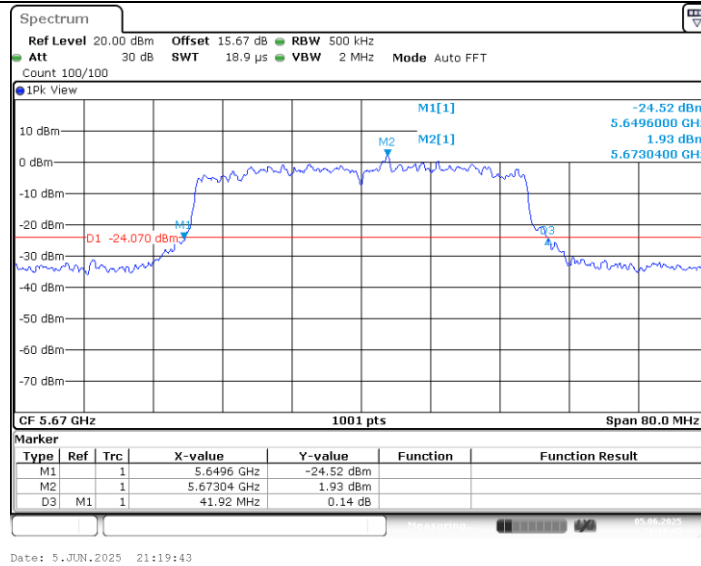
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CTC Laboratories, Inc.

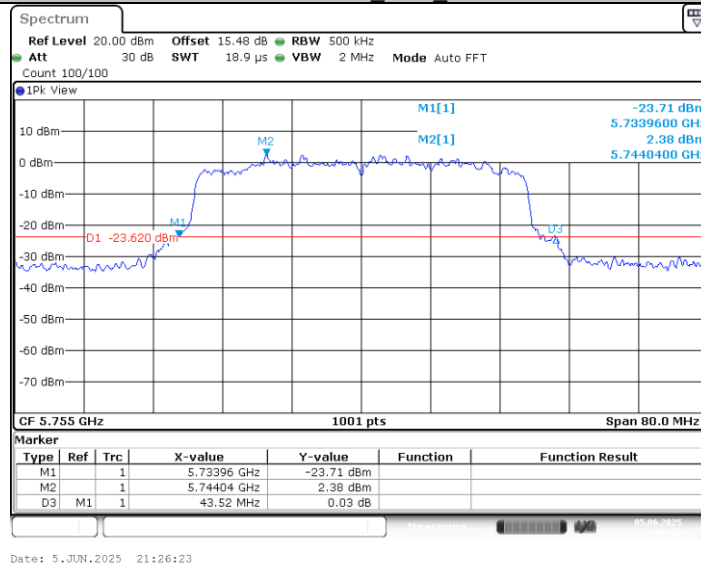
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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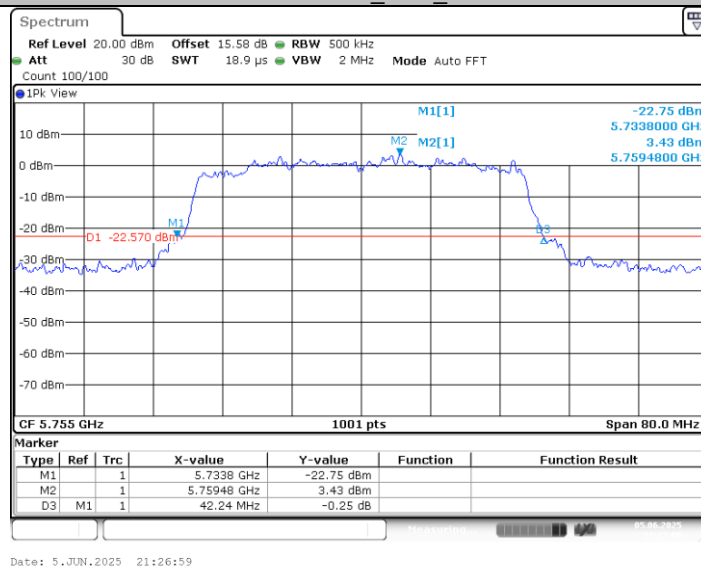
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11AX40MIMO_Ant1_5755



11AX40MIMO_Ant2_5755



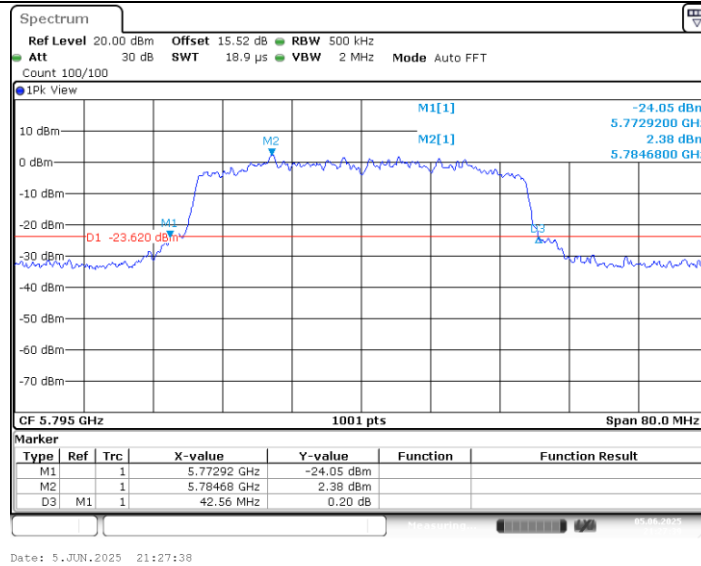
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CTC Laboratories, Inc.

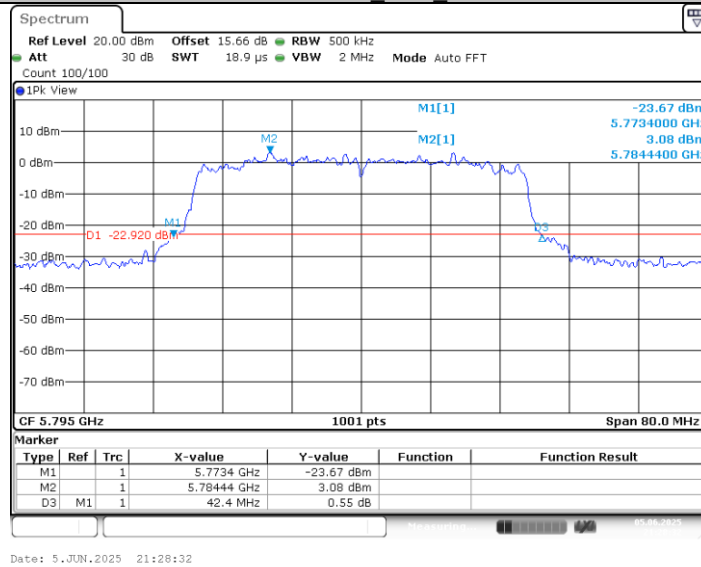
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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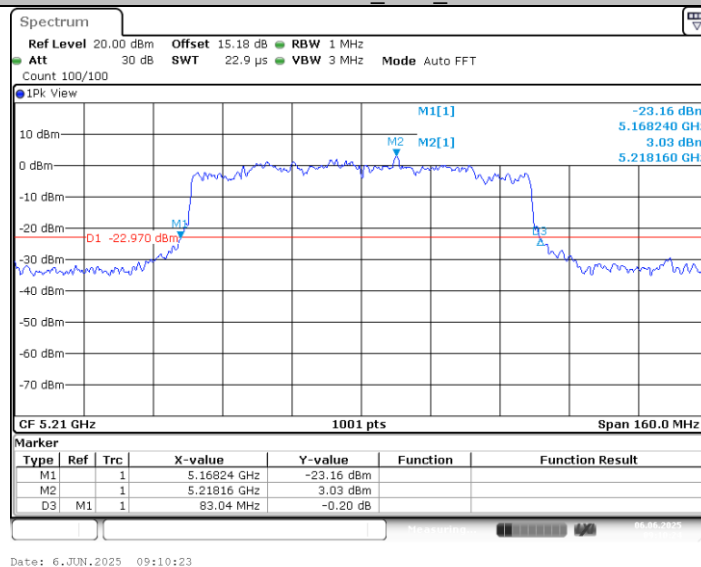
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Society : yz.cncaq.com



11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5210



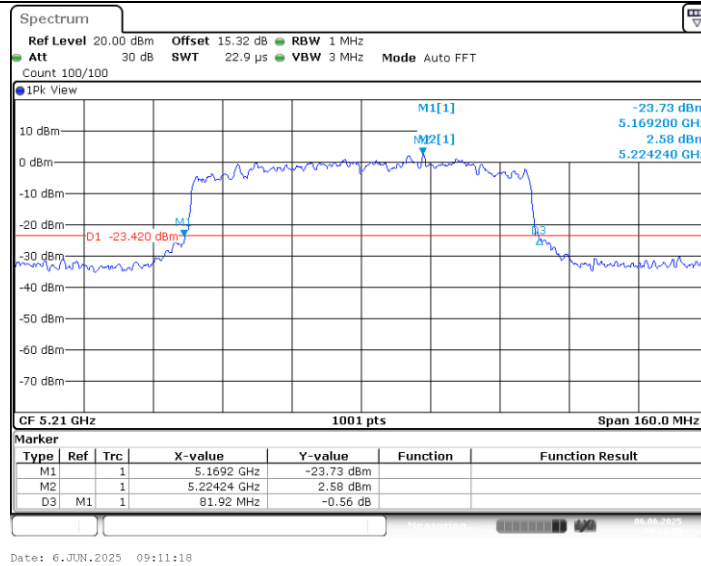
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CTC Laboratories, Inc.

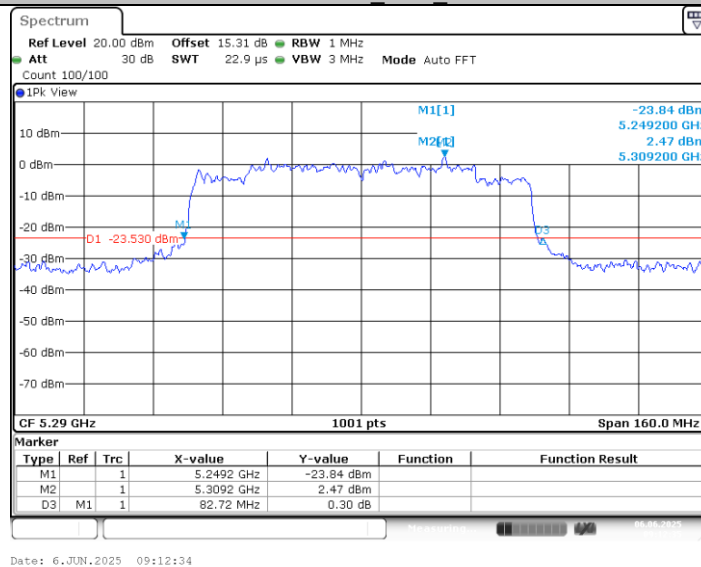
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

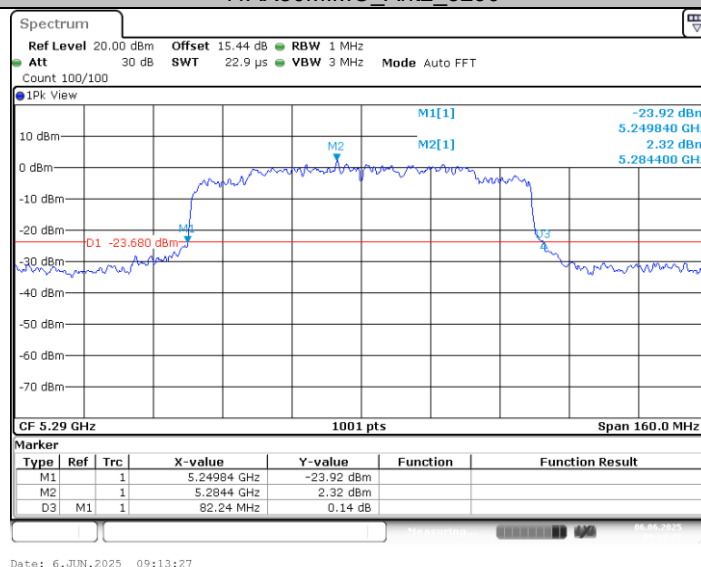
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX80MIMO_Ant1_5290



11AX80MIMO_Ant2_5290



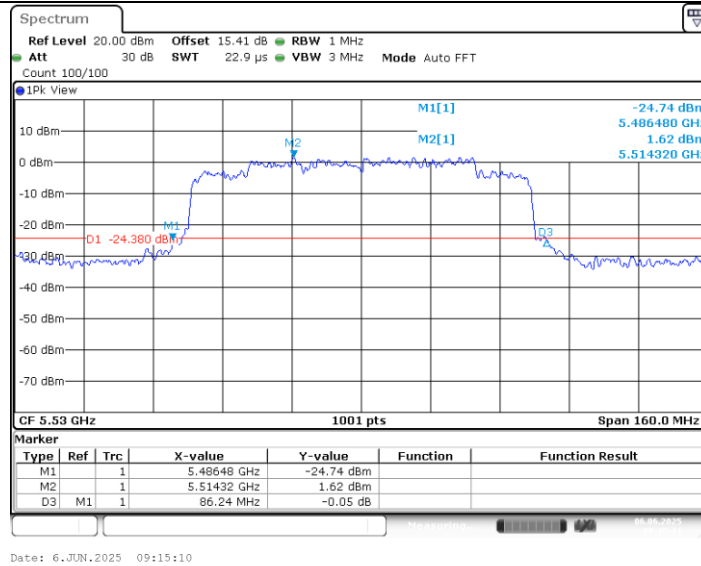
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CTC Laboratories, Inc.

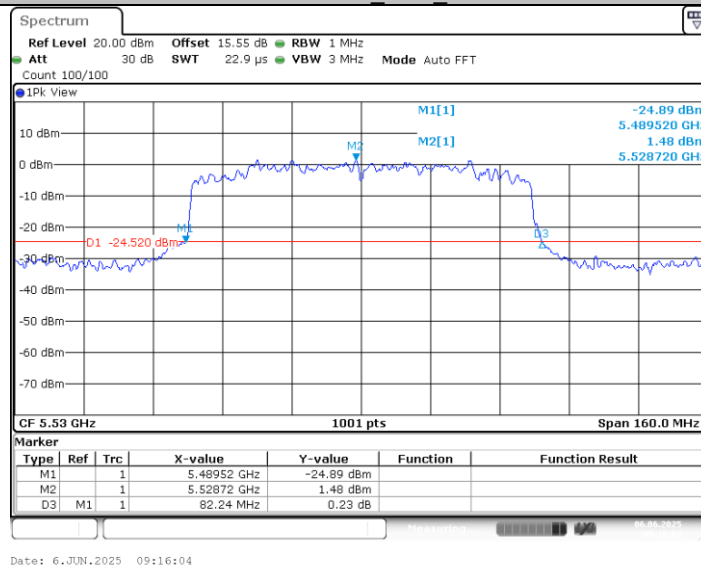
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

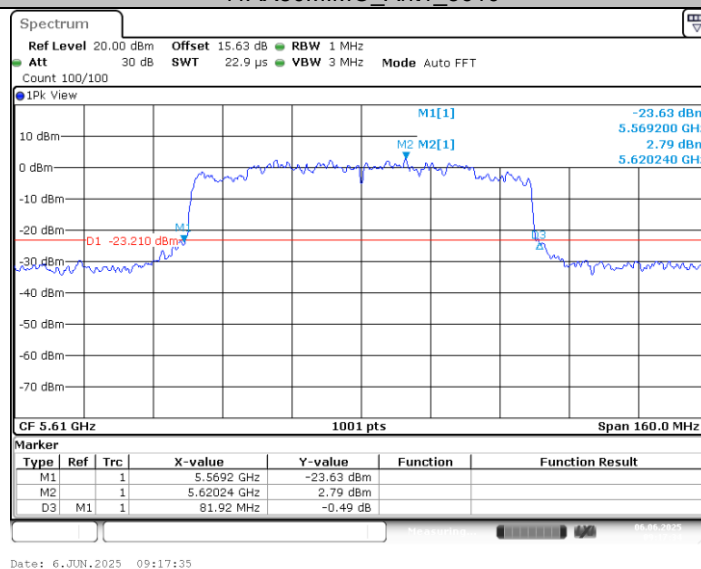
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11AX80MIMO_Ant2_5530



11AX80MIMO_Ant1_5610



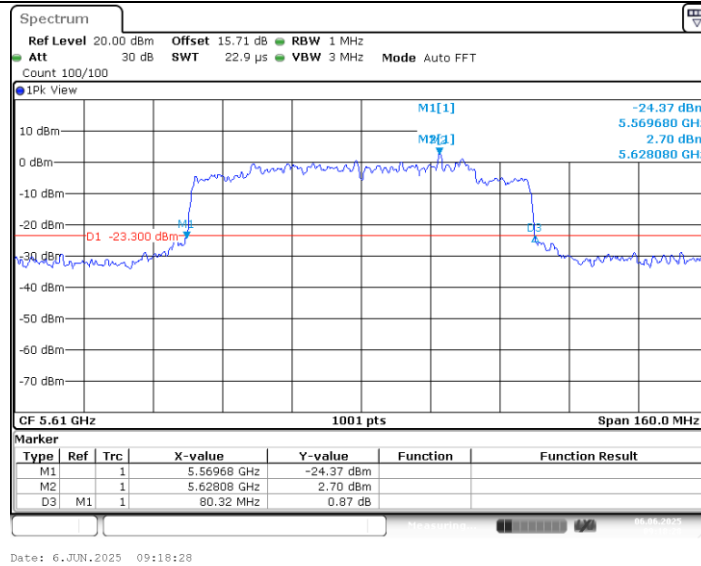
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CTC Laboratories, Inc.

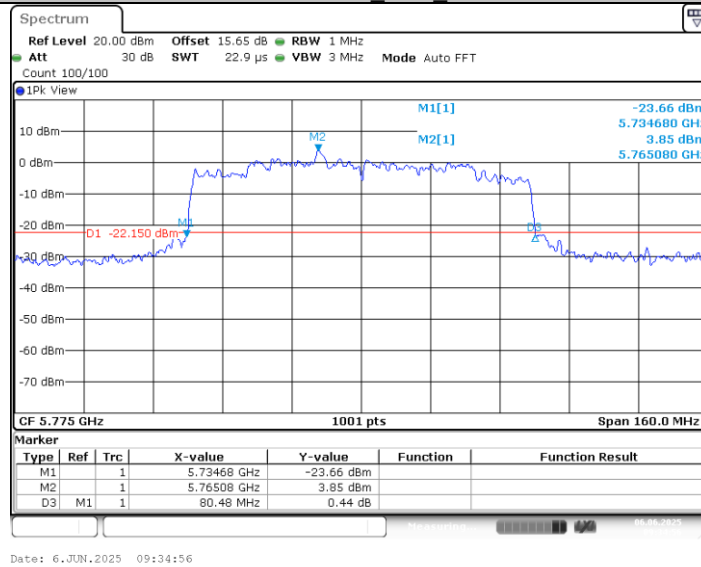
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

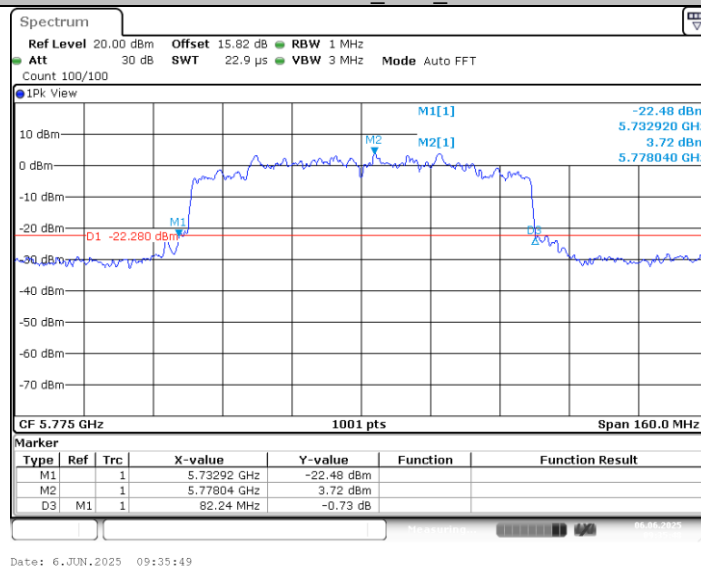
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



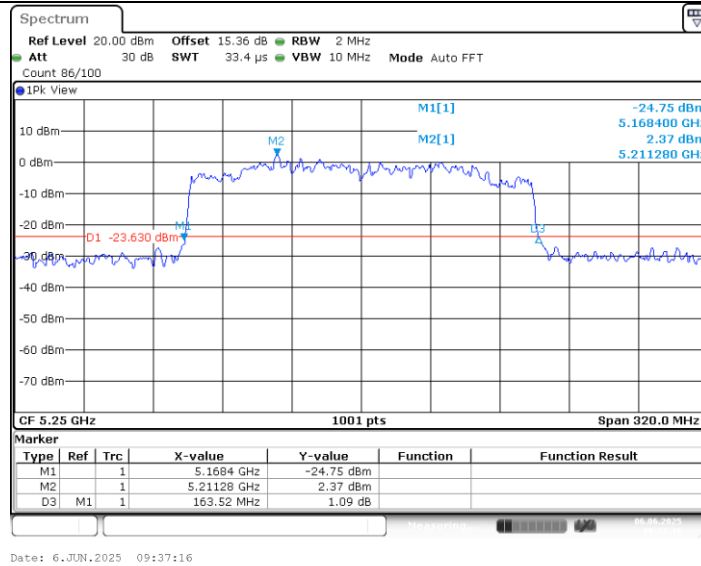
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CTC Laboratories, Inc.

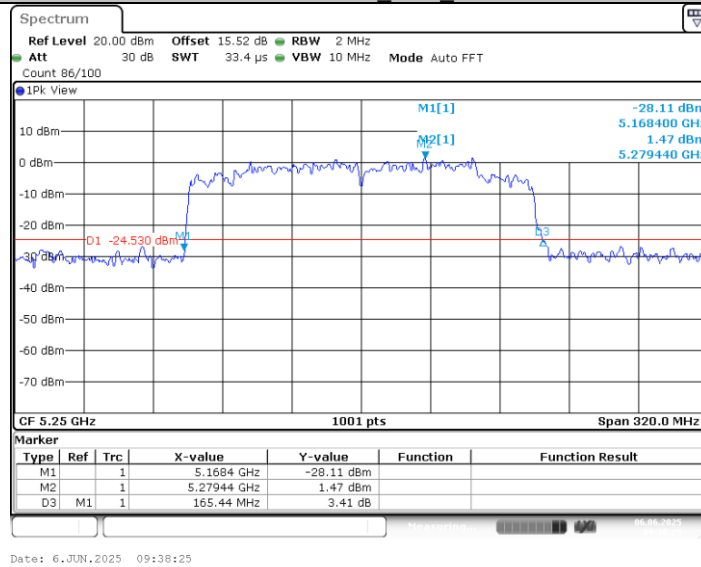
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

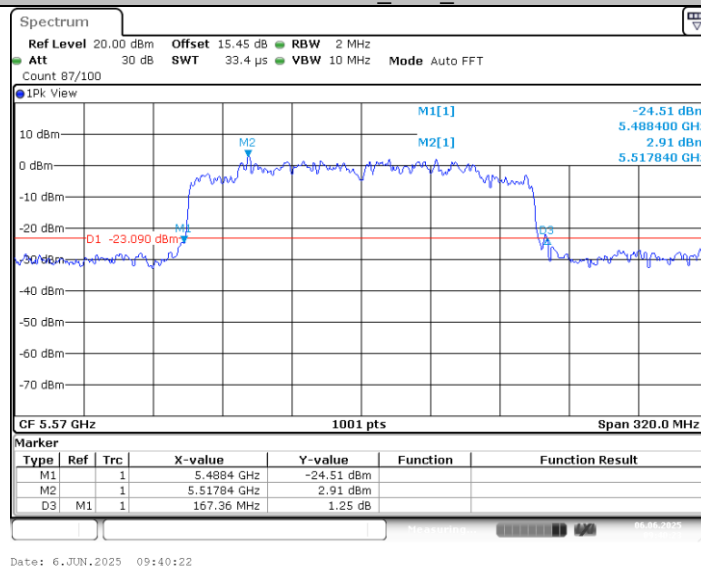
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11AX160MIMO_Ant2_5250



11AX160MIMO_Ant1_5570



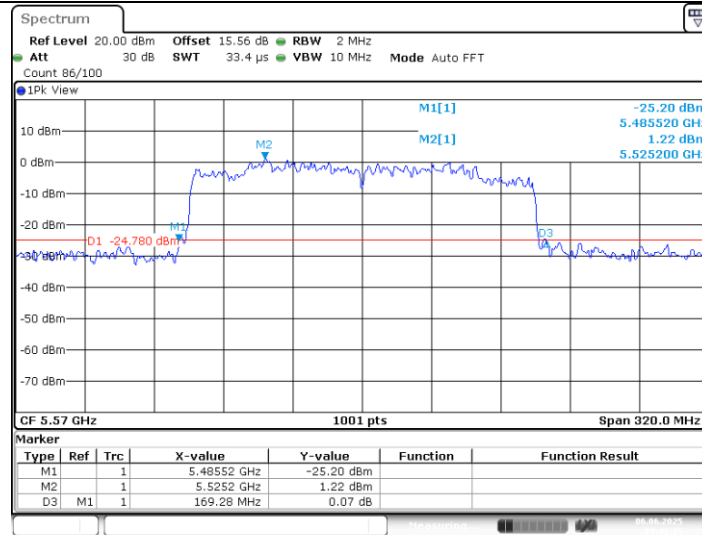
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CTC Laboratories, Inc.

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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CTC Laboratories, Inc.

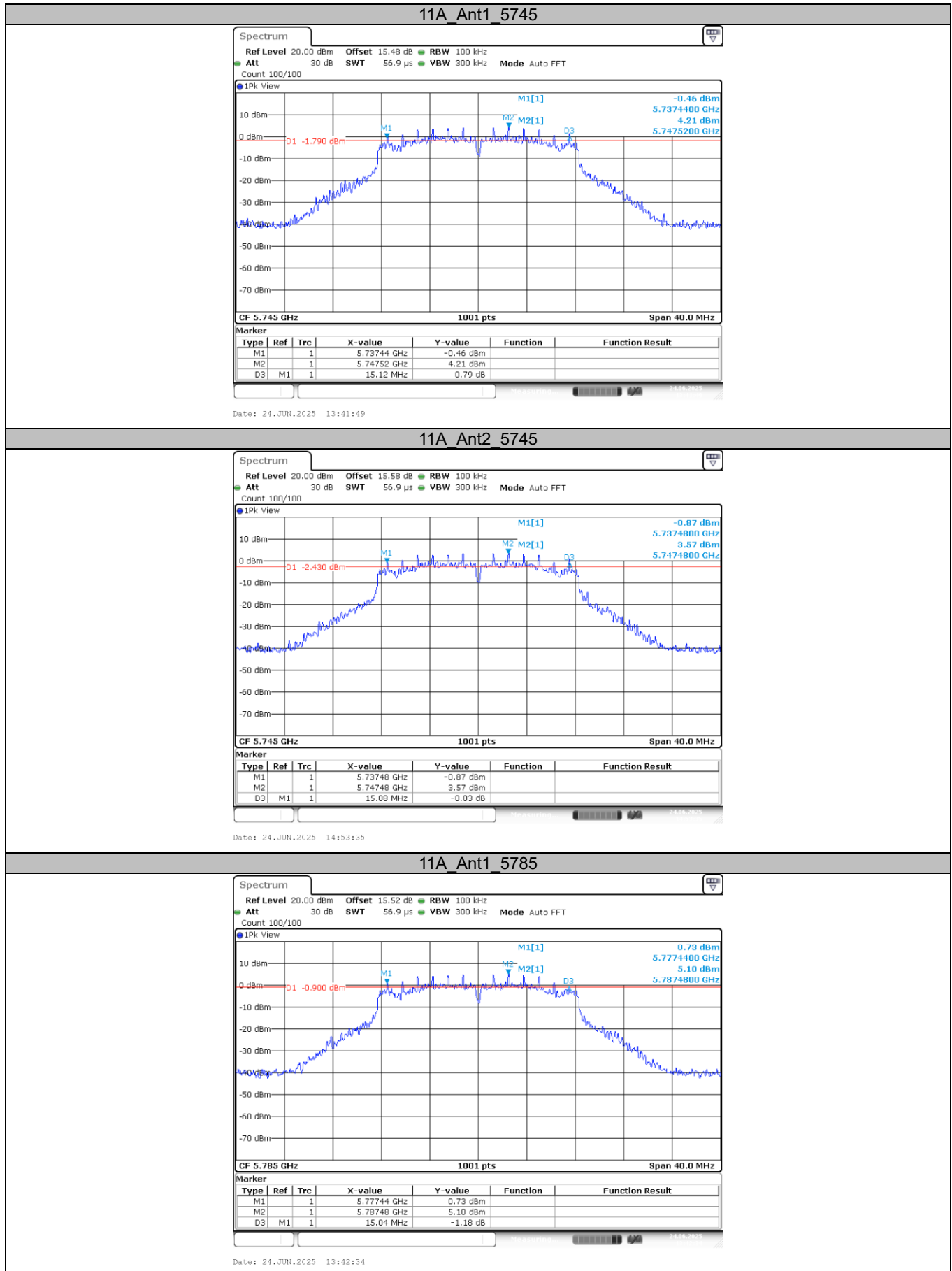
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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Society : yz.cncaq.com



6dB Bandwidth:



CTC Laboratories, Inc.

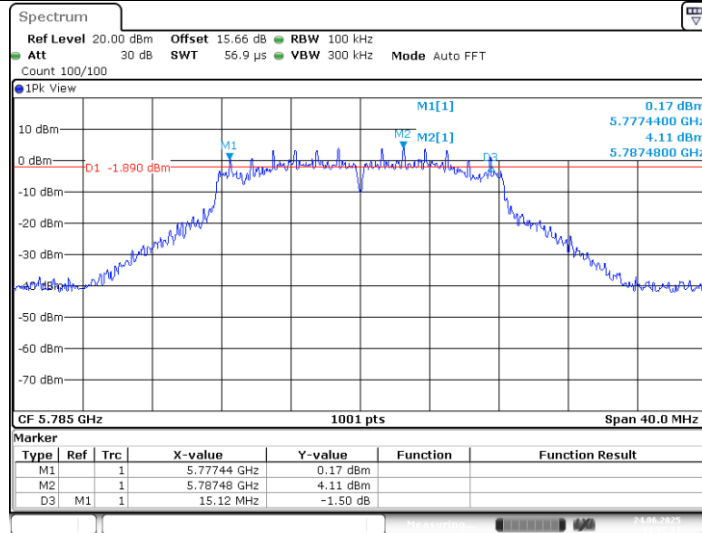
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

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

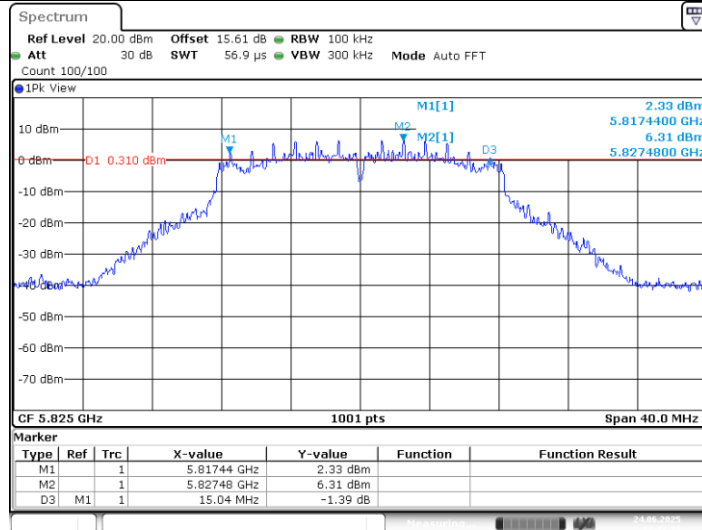


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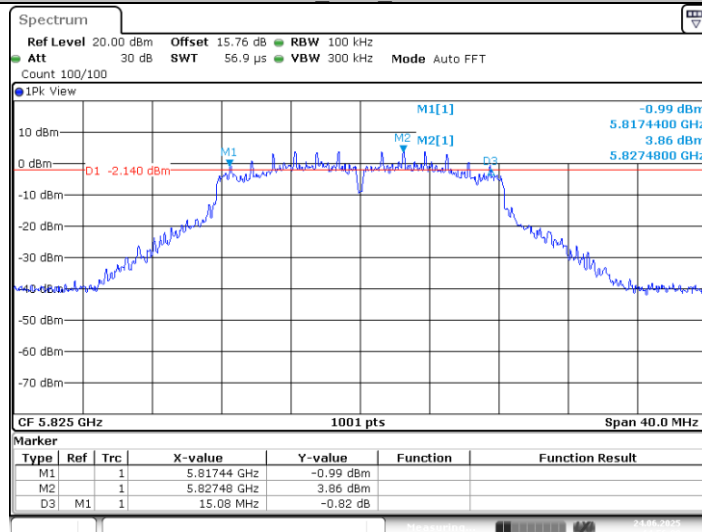
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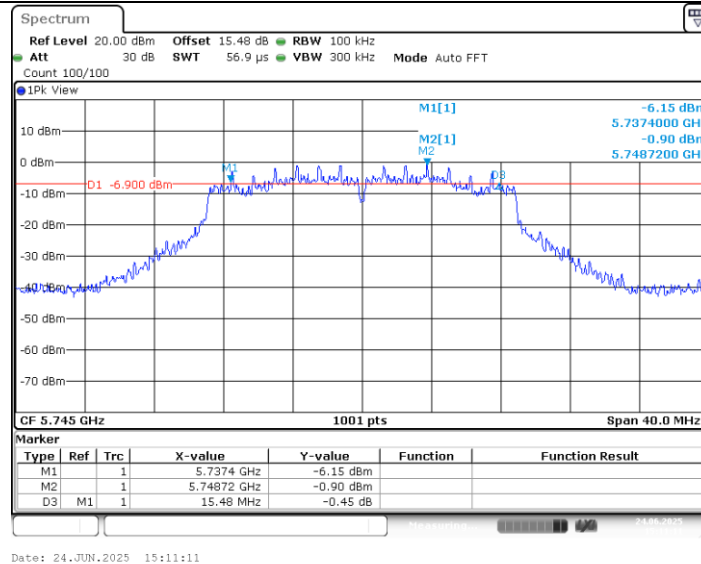
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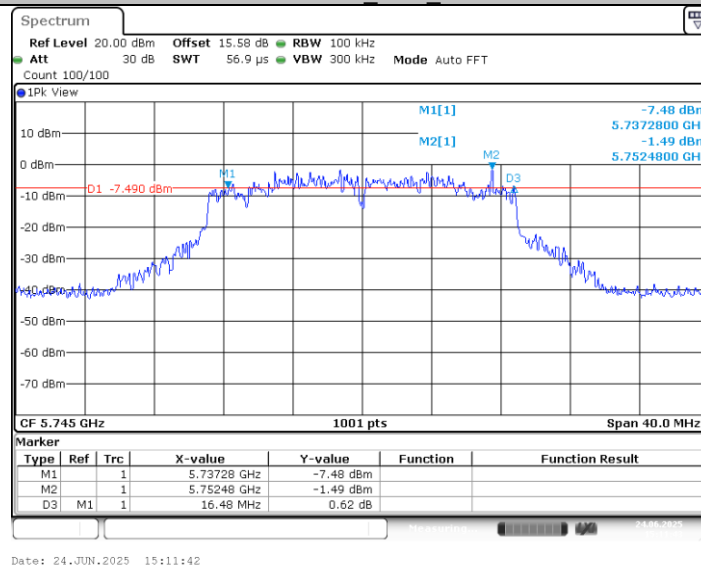


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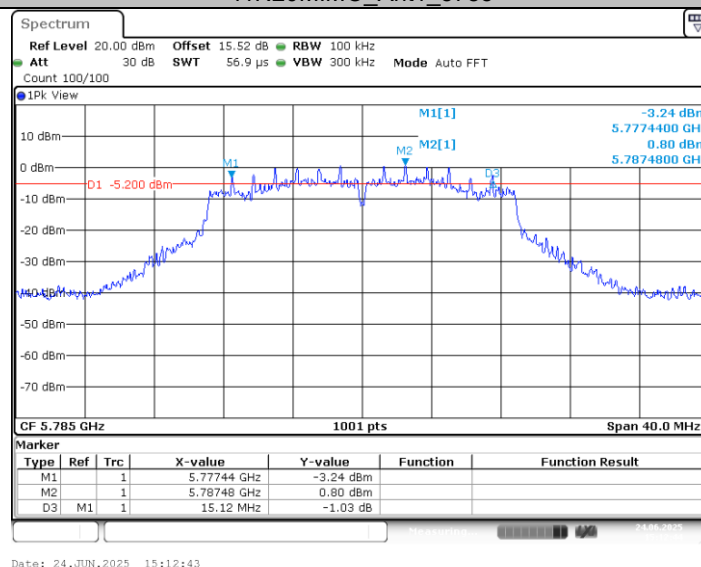
11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



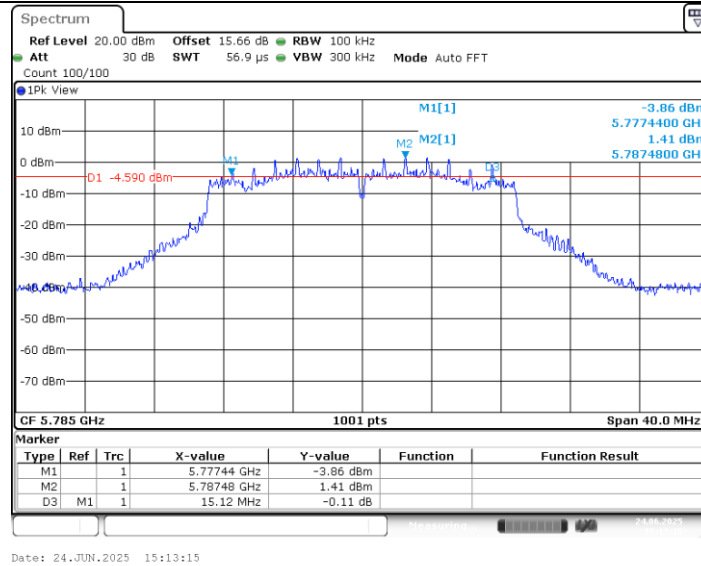
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CTC Laboratories, Inc.

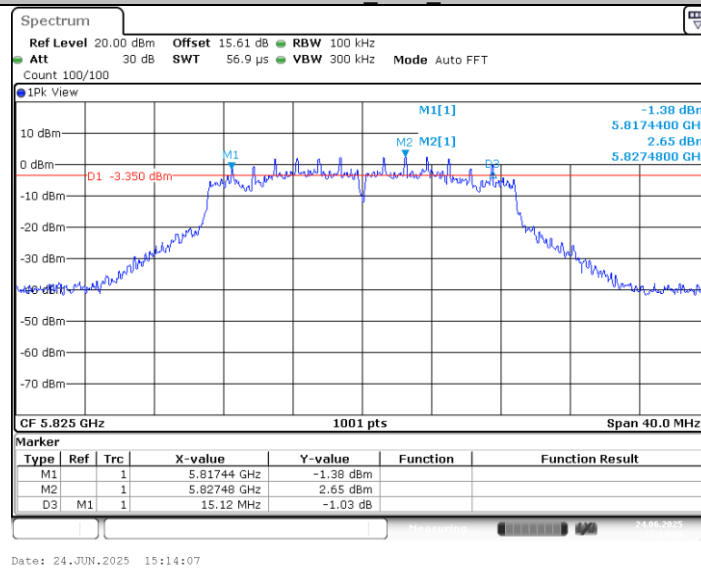
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

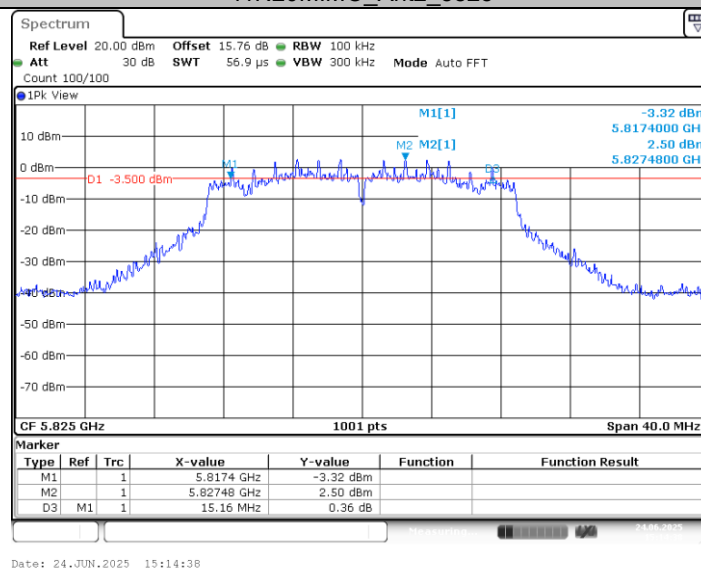
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



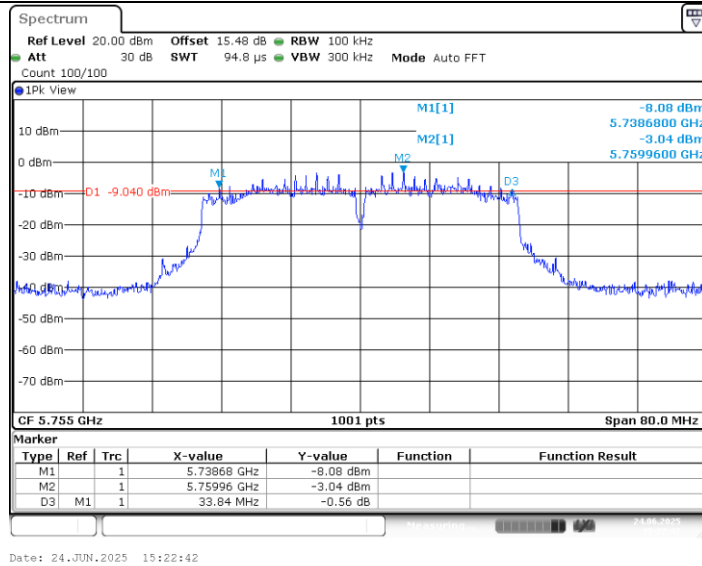
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CTC Laboratories, Inc.

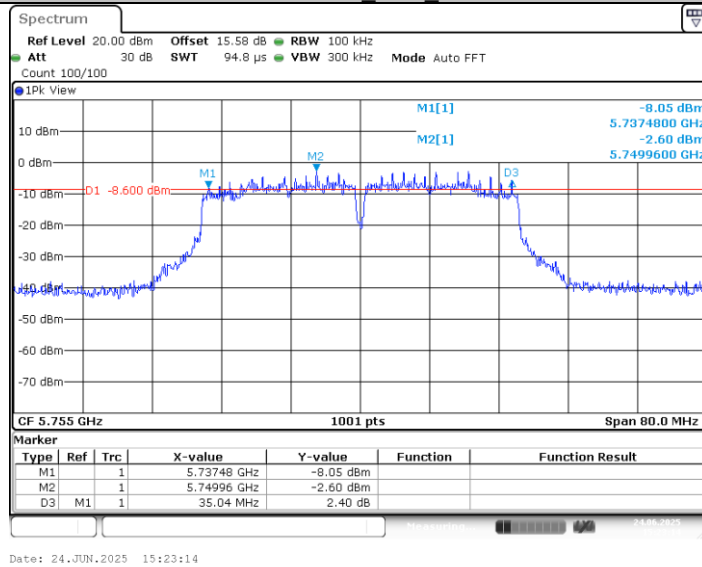
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

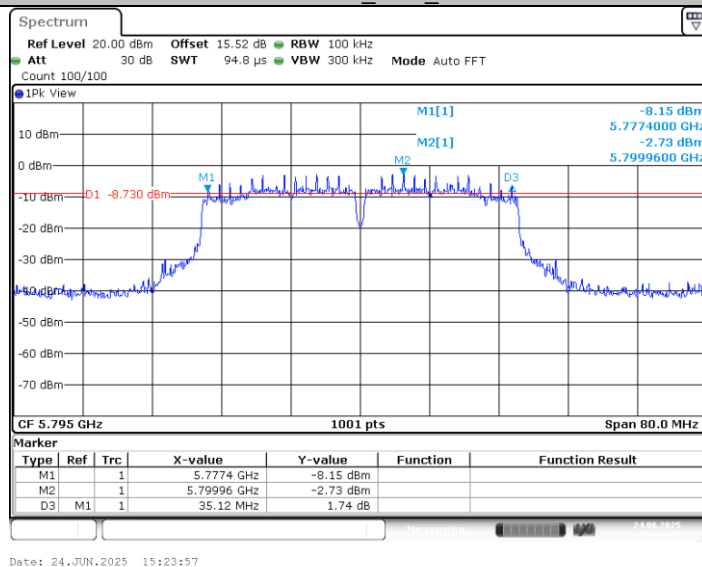
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cncaq.com](http://www.cncaq.com)



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



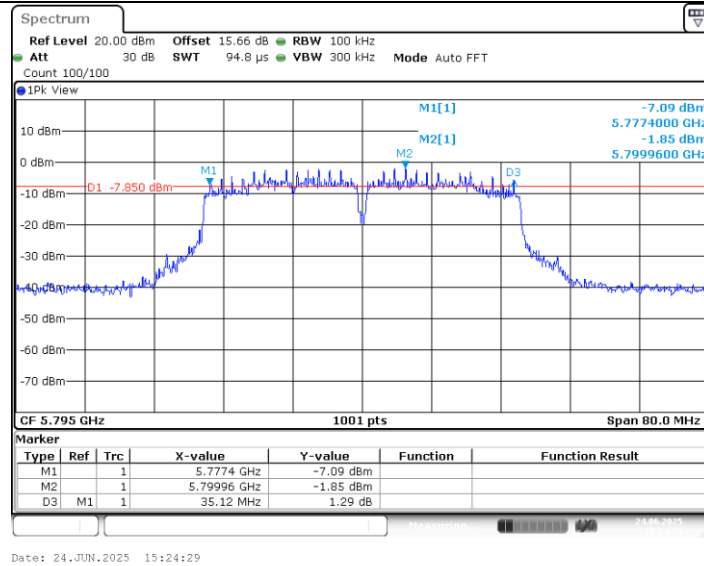
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CTC Laboratories, Inc.

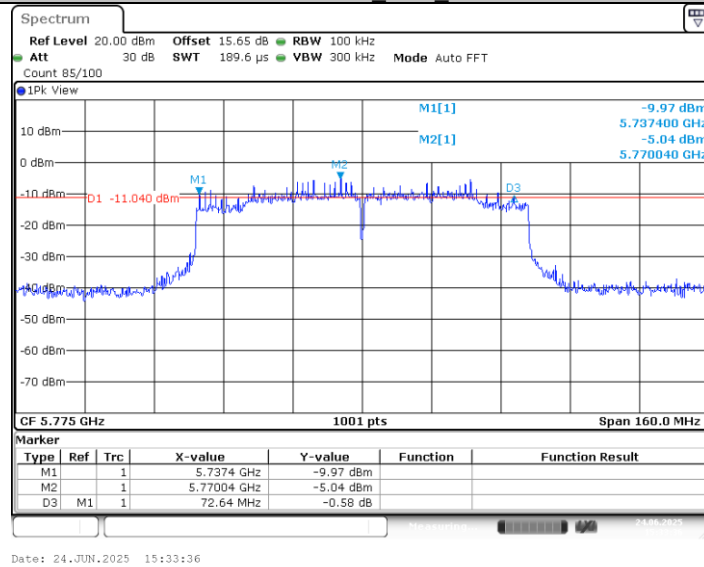
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

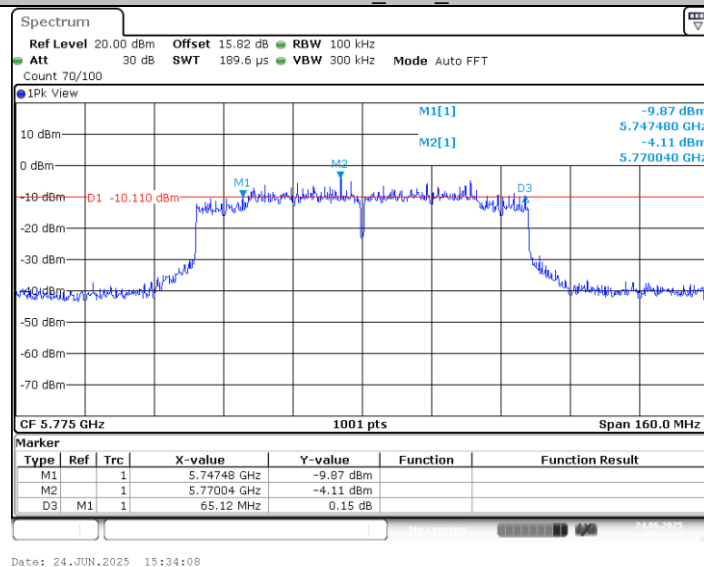
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



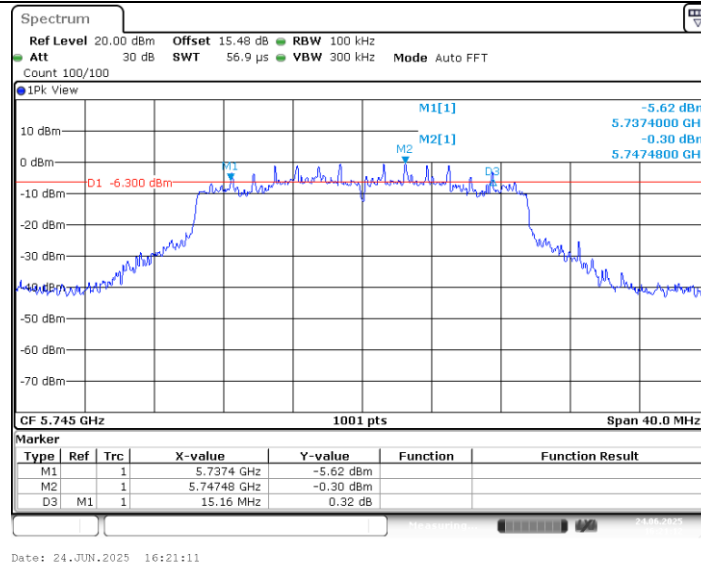
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CTC Laboratories, Inc.

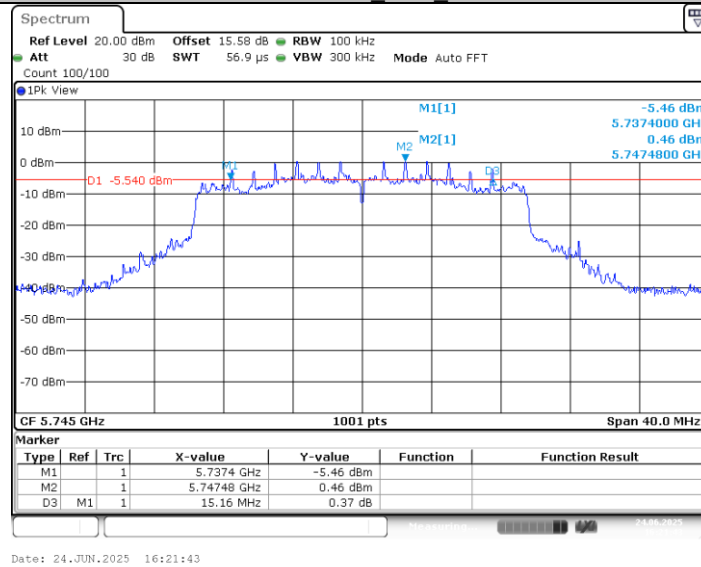
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A2

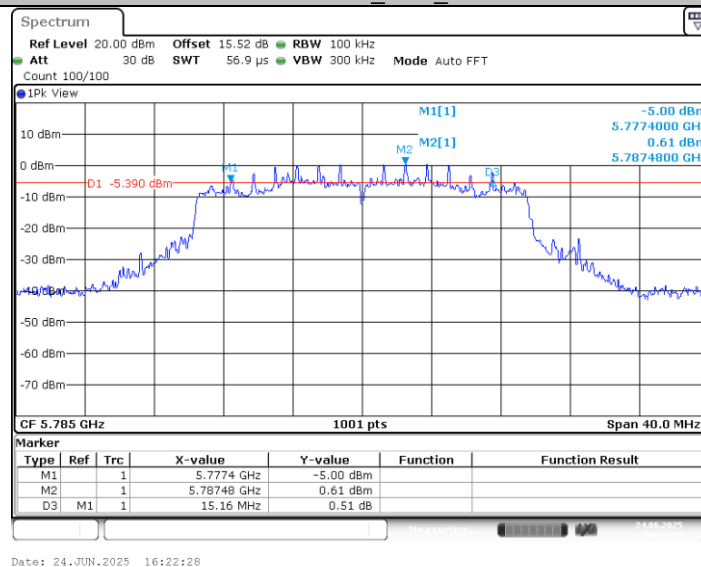
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11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



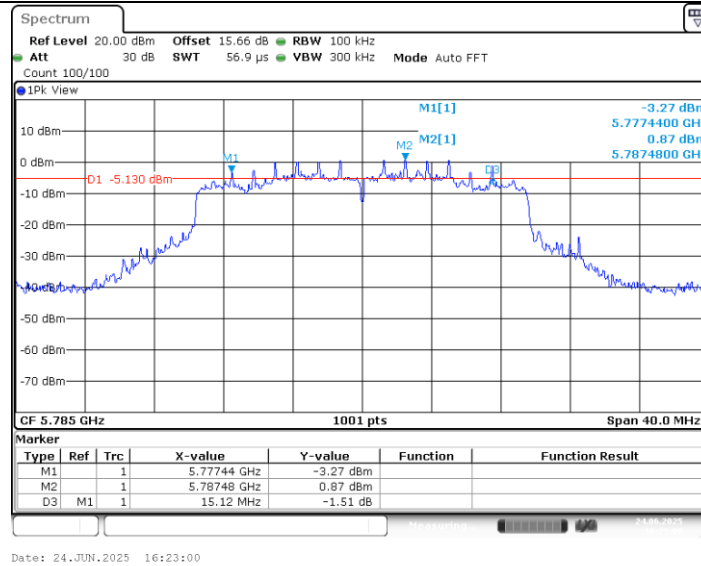
11AX20MIMO_Ant2_5785

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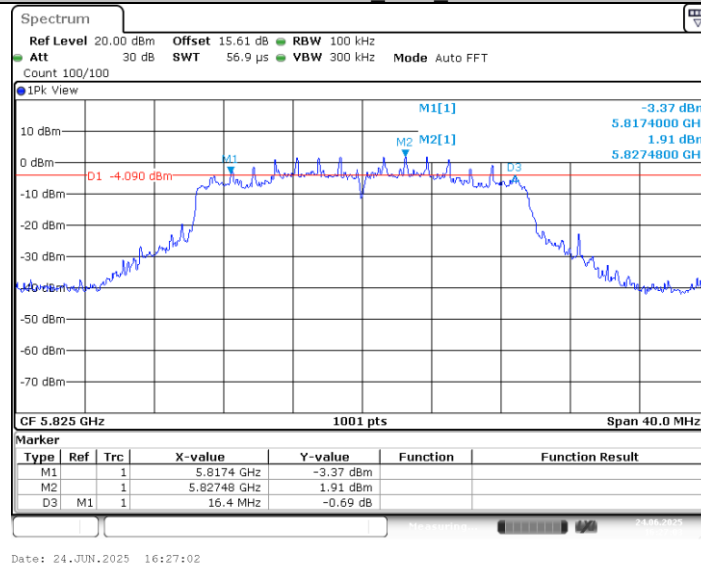
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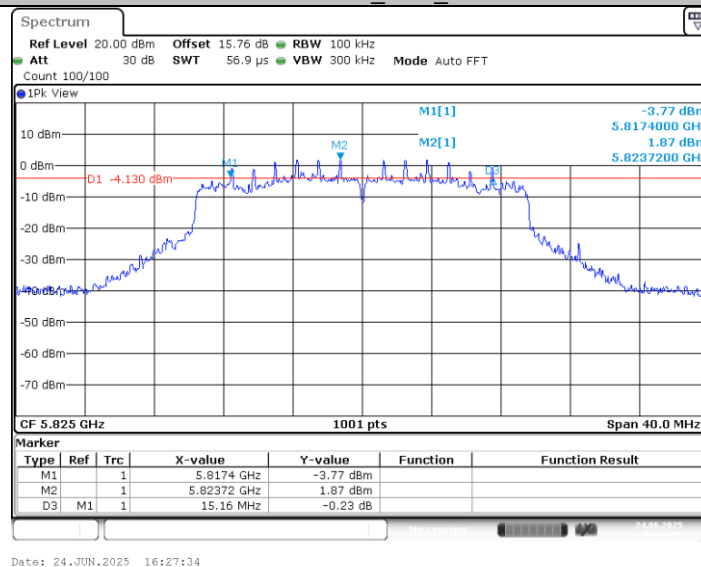
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11AX20MIMO_Ant1_5825



11AX20MIMO_Ant2_5825



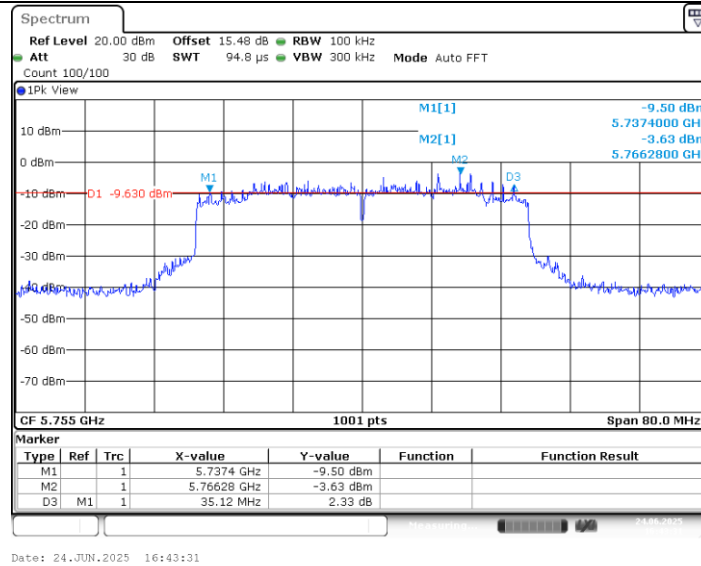
11AX40MIMO_Ant1_5755

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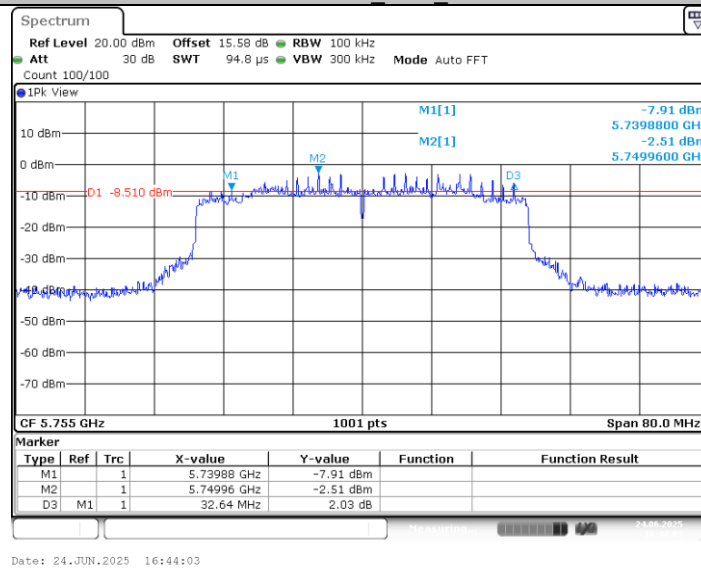
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TRF No: CTC-TR-062_A2

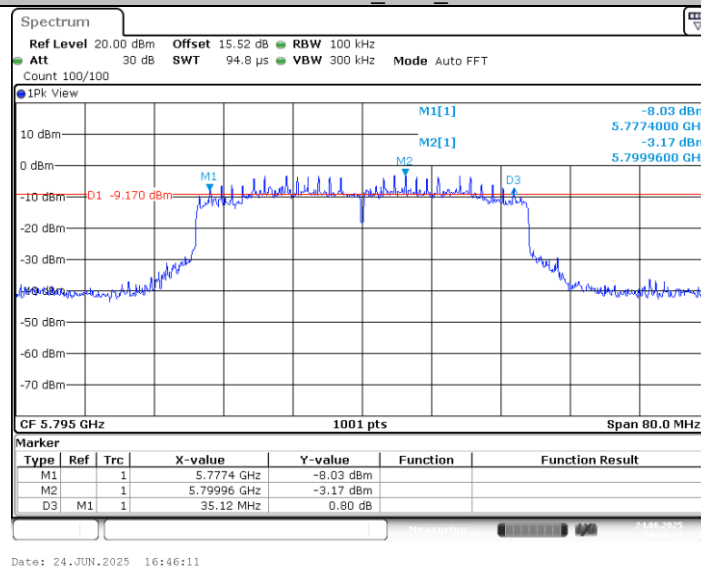
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11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



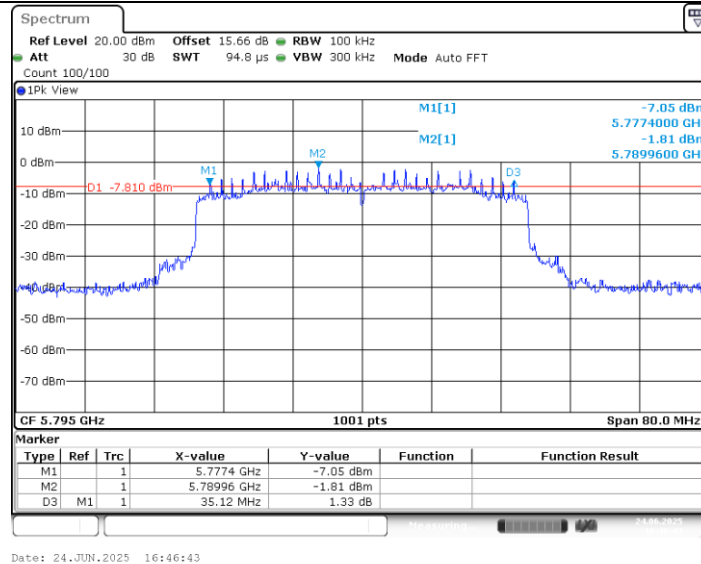
11AX40MIMO_Ant2_5795

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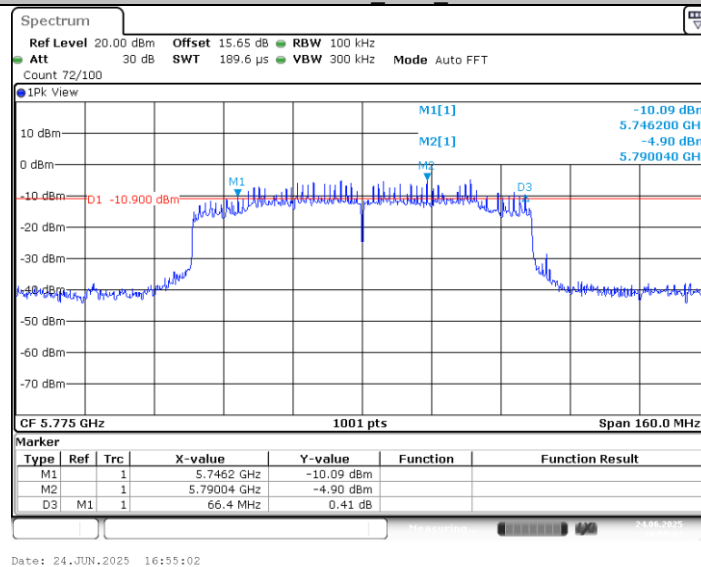
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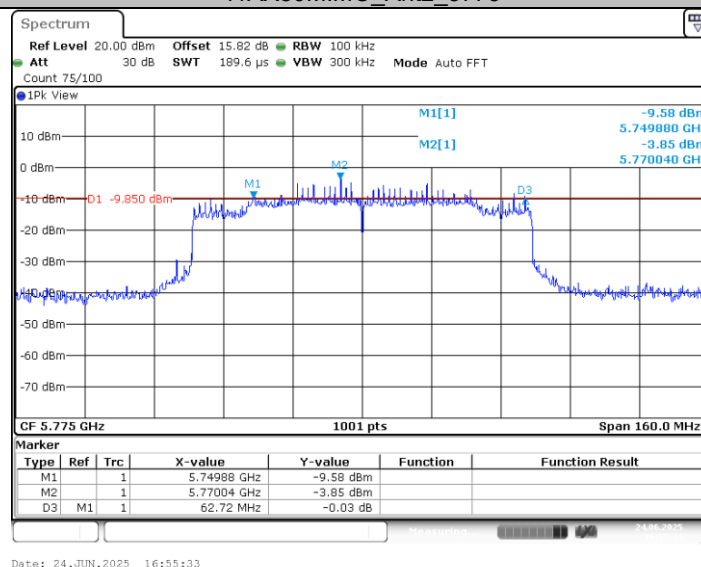
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11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



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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

RSS-247 6.2

IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

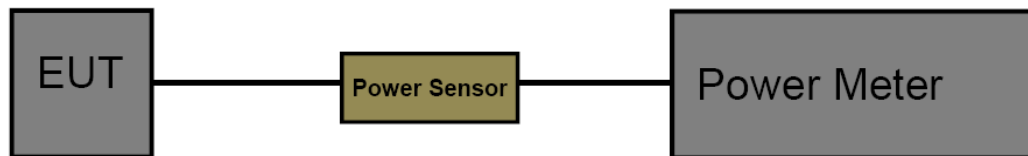
Test Configuration

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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	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.33	≤23.98	PASS
	Ant2	5180	10.15	≤23.98	PASS
	Ant1	5200	11.06	≤23.98	PASS
	Ant2	5200	10.31	≤23.98	PASS
	Ant1	5240	11.49	≤23.98	PASS
	Ant2	5240	10.05	≤23.98	PASS
	Ant1	5260	13.30	≤23.98	PASS
	Ant2	5260	11.78	≤23.98	PASS
	Ant1	5280	12.43	≤23.98	PASS
	Ant2	5280	11.49	≤23.98	PASS
	Ant1	5320	12.74	≤23.98	PASS
	Ant2	5320	10.91	≤23.98	PASS
	Ant1	5500	13.93	≤23.98	PASS
	Ant2	5500	13.87	≤23.98	PASS
	Ant1	5580	13.41	≤23.98	PASS
	Ant2	5580	11.85	≤23.98	PASS
	Ant1	5700	13.34	≤23.98	PASS
	Ant2	5700	11.08	≤23.98	PASS
	Ant1	5745	13.87	≤30.00	PASS
	Ant2	5745	13.84	≤30.00	PASS
	Ant1	5785	12.96	≤30.00	PASS
	Ant2	5785	13.81	≤30.00	PASS
	Ant1	5825	13.60	≤30.00	PASS
	Ant2	5825	13.88	≤30.00	PASS
11N20MIMO	Ant1	5180	10.82	≤23.29	PASS
	Ant2	5180	10.02	≤23.29	PASS
	total	5180	13.45	≤23.29	PASS
	Ant1	5200	10.54	≤23.29	PASS
	Ant2	5200	10.70	≤23.29	PASS
	total	5200	13.63	≤23.29	PASS
	Ant1	5240	10.54	≤23.29	PASS
	Ant2	5240	10.68	≤23.29	PASS
	total	5240	13.62	≤23.29	PASS
	Ant1	5260	10.33	≤23.29	PASS
	Ant2	5260	10.51	≤23.29	PASS
	total	5260	13.43	≤23.29	PASS
	Ant1	5280	10.06	≤23.29	PASS
	Ant2	5280	10.63	≤23.29	PASS
	total	5280	13.36	≤23.29	PASS
	Ant1	5320	10.26	≤23.29	PASS
	Ant2	5320	11.12	≤23.29	PASS
	total	5320	13.72	≤23.29	PASS
	Ant1	5500	10.28	≤23.29	PASS
	Ant2	5500	10.83	≤23.29	PASS
	total	5500	13.57	≤23.29	PASS
	Ant1	5580	10.87	≤23.29	PASS
	Ant2	5580	9.47	≤23.29	PASS
	total	5580	13.24	≤23.29	PASS
	Ant1	5700	10.83	≤23.29	PASS
	Ant2	5700	11.44	≤23.29	PASS
	total	5700	14.16	≤23.29	PASS
	Ant1	5745	10.70	≤29.31	PASS
	Ant2	5745	10.74	≤29.31	PASS
	total	5745	13.73	≤29.31	PASS
	Ant1	5785	9.86	≤29.31	PASS
	Ant2	5785	11.69	≤29.31	PASS
	total	5785	13.88	≤29.31	PASS
	Ant1	5825	10.84	≤29.31	PASS
	Ant2	5825	10.38	≤29.31	PASS
	total	5825	13.63	≤29.31	PASS
11N40MIMO	Ant1	5190	10.92	≤23.29	PASS

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	Ant2	5190	10.28	≤23.29	PASS
	total	5190	13.62	≤23.29	PASS
	Ant1	5230	10.69	≤23.29	PASS
	Ant2	5230	10.62	≤23.29	PASS
	total	5230	13.67	≤23.29	PASS
	Ant1	5270	9.86	≤23.29	PASS
	Ant2	5270	10.37	≤23.29	PASS
	total	5270	13.13	≤23.29	PASS
	Ant1	5310	10.39	≤23.29	PASS
	Ant2	5310	11.32	≤23.29	PASS
	total	5310	13.89	≤23.29	PASS
	Ant1	5510	10.26	≤23.29	PASS
	Ant2	5510	10.43	≤23.29	PASS
	total	5510	13.36	≤23.29	PASS
	Ant1	5550	10.29	≤23.29	PASS
	Ant2	5550	9.95	≤23.29	PASS
	total	5550	13.13	≤23.29	PASS
	Ant1	5670	11.67	≤23.29	PASS
	Ant2	5670	9.09	≤23.29	PASS
	total	5670	13.58	≤23.29	PASS
	Ant1	5755	10.61	≤29.31	PASS
	Ant2	5755	11.56	≤29.31	PASS
	total	5755	14.12	≤29.31	PASS
	Ant1	5795	9.50	≤29.31	PASS
	Ant2	5795	11.08	≤29.31	PASS
	total	5795	13.37	≤29.31	PASS
11AC20MIMO	Ant1	5180	10.62	≤23.29	PASS
	Ant2	5180	9.79	≤23.29	PASS
	total	5180	13.24	≤23.29	PASS
	Ant1	5200	10.59	≤23.29	PASS
	Ant2	5200	10.97	≤23.29	PASS
	total	5200	13.79	≤23.29	PASS
	Ant1	5240	10.45	≤23.29	PASS
	Ant2	5240	10.54	≤23.29	PASS
	total	5240	13.51	≤23.29	PASS
	Ant1	5260	10.30	≤23.29	PASS
	Ant2	5260	10.40	≤23.29	PASS
	total	5260	13.36	≤23.29	PASS
	Ant1	5280	9.78	≤23.29	PASS
	Ant2	5280	11.69	≤23.29	PASS
	total	5280	13.85	≤23.29	PASS
	Ant1	5320	10.52	≤23.29	PASS
	Ant2	5320	11.00	≤23.29	PASS
	total	5320	13.78	≤23.29	PASS
	Ant1	5500	10.38	≤23.29	PASS
	Ant2	5500	10.45	≤23.29	PASS
	total	5500	13.43	≤23.29	PASS
	Ant1	5580	10.80	≤23.29	PASS
	Ant2	5580	9.37	≤23.29	PASS
	total	5580	13.15	≤23.29	PASS
	Ant1	5700	10.36	≤23.29	PASS
	Ant2	5700	10.79	≤23.29	PASS
	total	5700	13.59	≤23.29	PASS
	Ant1	5745	10.86	≤29.31	PASS
	Ant2	5745	11.48	≤29.31	PASS
	total	5745	14.19	≤29.31	PASS
	Ant1	5785	10.55	≤29.31	PASS
	Ant2	5785	11.51	≤29.31	PASS
	total	5785	14.07	≤29.31	PASS
	Ant1	5825	10.28	≤29.31	PASS
	Ant2	5825	9.93	≤29.31	PASS
	total	5825	13.12	≤29.31	PASS
11AC40MIMO	Ant1	5190	10.77	≤23.29	PASS
	Ant2	5190	9.96	≤23.29	PASS
	total	5190	13.39	≤23.29	PASS

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	Ant1	5230	10.55	≤23.29	PASS
	Ant2	5230	11.73	≤23.29	PASS
	total	5230	14.19	≤23.29	PASS
	Ant1	5270	9.93	≤23.29	PASS
	Ant2	5270	10.31	≤23.29	PASS
	total	5270	13.13	≤23.29	PASS
	Ant1	5310	10.19	≤23.29	PASS
	Ant2	5310	11.32	≤23.29	PASS
	total	5310	13.80	≤23.29	PASS
	Ant1	5510	10.30	≤23.29	PASS
	Ant2	5510	10.43	≤23.29	PASS
	total	5510	13.38	≤23.29	PASS
	Ant1	5550	10.51	≤23.29	PASS
	Ant2	5550	10.00	≤23.29	PASS
	total	5550	13.27	≤23.29	PASS
	Ant1	5670	11.64	≤23.29	PASS
	Ant2	5670	9.15	≤23.29	PASS
	total	5670	13.58	≤23.29	PASS
	Ant1	5755	10.92	≤29.31	PASS
	Ant2	5755	11.96	≤29.31	PASS
	total	5755	14.48	≤29.31	PASS
	Ant1	5795	9.52	≤29.31	PASS
	Ant2	5795	11.46	≤29.31	PASS
	total	5795	13.61	≤29.31	PASS
11AC80MIMO	Ant1	5210	11.00	≤23.29	PASS
	Ant2	5210	10.44	≤23.29	PASS
	total	5210	13.74	≤23.29	PASS
	Ant1	5290	9.88	≤23.29	PASS
	Ant2	5290	10.97	≤23.29	PASS
	total	5290	13.47	≤23.29	PASS
	Ant1	5530	10.57	≤23.29	PASS
	Ant2	5530	10.43	≤23.29	PASS
	total	5530	13.51	≤23.29	PASS
	Ant1	5610	11.42	≤23.29	PASS
	Ant2	5610	9.52	≤23.29	PASS
	total	5610	13.58	≤23.29	PASS
	Ant1	5775	10.45	≤30.00	PASS
	Ant2	5775	11.95	≤30.00	PASS
	total	5775	14.27	≤30.00	PASS
11AC160MIMO	Ant1	5250 UNII-1	7.79	≤23.29	PASS
	Ant2	5250 UNII-1	7.69	≤23.29	PASS
	total	5250 UNII-1	10.75	≤23.29	PASS
	Ant1	5250 UNII-2A	5.91	≤23.29	PASS
	Ant2	5250 UNII-2A	5.48	≤23.29	PASS
	total	5250 UNII-2A	8.71	≤23.29	PASS
	Ant1	5570	11.61	≤23.29	PASS
	Ant2	5570	10.28	≤23.29	PASS
	total	5570	14.01	≤23.29	PASS
11AX20MIMO	Ant1	5180	10.62	≤23.29	PASS
	Ant2	5180	10.03	≤23.29	PASS
	total	5180	13.35	≤23.29	PASS
	Ant1	5200	10.66	≤23.29	PASS
	Ant2	5200	10.93	≤23.29	PASS
	total	5200	13.81	≤23.29	PASS
	Ant1	5240	10.54	≤23.29	PASS
	Ant2	5240	10.21	≤23.29	PASS
	total	5240	13.39	≤23.29	PASS
	Ant1	5260	10.04	≤23.29	PASS
	Ant2	5260	10.36	≤23.29	PASS
	total	5260	13.21	≤23.29	PASS
	Ant1	5280	10.03	≤23.29	PASS
	Ant2	5280	11.58	≤23.29	PASS
	total	5280	13.88	≤23.29	PASS
	Ant1	5320	10.48	≤23.29	PASS
	Ant2	5320	11.28	≤23.29	PASS

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	total	5320	13.91	≤23.29	PASS
	Ant1	5500	10.20	≤23.29	PASS
	Ant2	5500	10.56	≤23.29	PASS
	total	5500	13.39	≤23.29	PASS
	Ant1	5580	11.04	≤23.29	PASS
	Ant2	5580	9.30	≤23.29	PASS
	total	5580	13.27	≤23.29	PASS
	Ant1	5700	10.97	≤23.29	PASS
	Ant2	5700	11.42	≤23.29	PASS
	total	5700	14.21	≤23.29	PASS
	Ant1	5745	10.78	≤29.31	PASS
	Ant2	5745	11.43	≤29.31	PASS
	total	5745	14.13	≤29.31	PASS
	Ant1	5785	10.55	≤29.31	PASS
	Ant2	5785	11.13	≤29.31	PASS
	total	5785	13.86	≤29.31	PASS
	Ant1	5825	10.27	≤29.31	PASS
	Ant2	5825	12.18	≤29.31	PASS
	total	5825	14.34	≤29.31	PASS
11AX40MIMO	Ant1	5190	10.55	≤23.29	PASS
	Ant2	5190	11.37	≤23.29	PASS
	total	5190	13.99	≤23.29	PASS
	Ant1	5230	10.52	≤23.29	PASS
	Ant2	5230	11.54	≤23.29	PASS
	total	5230	14.07	≤23.29	PASS
	Ant1	5270	9.92	≤23.29	PASS
	Ant2	5270	10.21	≤23.29	PASS
	total	5270	13.08	≤23.29	PASS
	Ant1	5310	10.51	≤23.29	PASS
	Ant2	5310	11.32	≤23.29	PASS
	total	5310	13.94	≤23.29	PASS
	Ant1	5510	10.30	≤23.29	PASS
	Ant2	5510	10.45	≤23.29	PASS
	total	5510	13.39	≤23.29	PASS
	Ant1	5550	10.57	≤23.29	PASS
	Ant2	5550	9.90	≤23.29	PASS
	total	5550	13.26	≤23.29	PASS
	Ant1	5670	11.73	≤23.29	PASS
	Ant2	5670	8.81	≤23.29	PASS
	total	5670	13.52	≤23.29	PASS
	Ant1	5755	10.74	≤29.31	PASS
	Ant2	5755	11.37	≤29.31	PASS
	total	5755	14.08	≤29.31	PASS
	Ant1	5795	9.83	≤29.31	PASS
	Ant2	5795	11.70	≤29.31	PASS
	total	5795	13.88	≤29.31	PASS
11AX80MIMO	Ant1	5210	10.59	≤23.29	PASS
	Ant2	5210	10.38	≤23.29	PASS
	total	5210	13.50	≤23.29	PASS
	Ant1	5290	9.82	≤23.29	PASS
	Ant2	5290	10.46	≤23.29	PASS
	total	5290	13.16	≤23.29	PASS
	Ant1	5530	10.61	≤23.29	PASS
	Ant2	5530	10.29	≤23.29	PASS
	total	5530	13.46	≤23.29	PASS
	Ant1	5610	11.06	≤23.29	PASS
	Ant2	5610	9.36	≤23.29	PASS
	total	5610	13.30	≤23.29	PASS
	Ant1	5775	10.36	≤29.31	PASS
	Ant2	5775	12.12	≤29.31	PASS
	total	5775	14.34	≤29.31	PASS
11AX160MIMO	Ant1	5250 UNII-1	7.77	≤23.29	PASS
	Ant2	5250 UNII-1	7.28	≤23.29	PASS
	total	5250 UNII-1	10.54	≤23.29	PASS
	Ant1	5250 UNII-2A	6.04	≤23.29	PASS

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	Ant2	5250 UNII-2A	6.51	≤ 23.29	PASS
	total	5250 UNII-2A	9.29	≤ 23.29	PASS
	Ant1	5570	11.41	≤ 23.29	PASS
	Ant2	5570	10.35	≤ 23.29	PASS
	total	5570	13.92	≤ 23.29	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.

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IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz~5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz~5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5470MHz~5600MHz 5650MHz~5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5725MHz~5850MHz	ALL Devices	1W		30dBm/500kHz	

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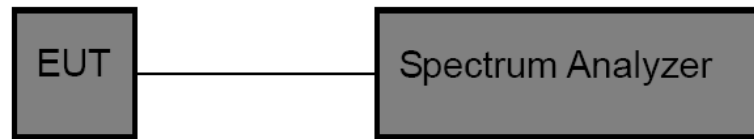
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Test Configuration



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
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	0.41	≤11.00	PASS
	Ant2	5180	-0.29	≤11.00	PASS
	Ant1	5200	0.60	≤11.00	PASS
	Ant2	5200	-0.18	≤11.00	PASS
	Ant1	5240	0.99	≤11.00	PASS
	Ant2	5240	-0.67	≤11.00	PASS
	Ant1	5260	2.83	≤11.00	PASS
	Ant2	5260	1.87	≤11.00	PASS
	Ant1	5280	2.20	≤11.00	PASS
	Ant2	5280	1.03	≤11.00	PASS
	Ant1	5320	2.49	≤11.00	PASS
	Ant2	5320	0.94	≤11.00	PASS
	Ant1	5500	5.11	≤11.00	PASS
	Ant2	5500	3.01	≤11.00	PASS
	Ant1	5580	4.12	≤11.00	PASS
	Ant2	5580	1.38	≤11.00	PASS
	Ant1	5700	4.06	≤11.00	PASS
	Ant2	5700	0.61	≤11.00	PASS
	Ant1	5745	1.30	≤30.00	PASS
	Ant2	5745	0.62	≤30.00	PASS
	Ant1	5785	0.00	≤30.00	PASS
	Ant2	5785	0.72	≤30.00	PASS
	Ant1	5825	0.67	≤30.00	PASS
	Ant2	5825	1.05	≤30.00	PASS
11N20MIMO	Ant1	5180	0.96	≤10.31	PASS
	Ant2	5180	0.76	≤10.31	PASS
	total	5180	3.87	≤10.31	PASS
	Ant1	5200	0.83	≤10.31	PASS
	Ant2	5200	-0.08	≤10.31	PASS
	total	5200	3.41	≤10.31	PASS
	Ant1	5240	0.80	≤10.31	PASS
	Ant2	5240	0.44	≤10.31	PASS
	total	5240	3.63	≤10.31	PASS
	Ant1	5260	0.92	≤10.31	PASS
	Ant2	5260	0.65	≤10.31	PASS
	total	5260	3.80	≤10.31	PASS
	Ant1	5280	1.02	≤10.31	PASS
	Ant2	5280	0.65	≤10.31	PASS
	total	5280	3.85	≤10.31	PASS
	Ant1	5320	1.65	≤10.31	PASS
	Ant2	5320	1.90	≤10.31	PASS
	total	5320	4.79	≤10.31	PASS
	Ant1	5500	0.42	≤10.31	PASS
	Ant2	5500	-0.64	≤10.31	PASS
	total	5500	2.93	≤10.31	PASS
	Ant1	5580	0.32	≤10.31	PASS
	Ant2	5580	-0.65	≤10.31	PASS
	total	5580	2.87	≤10.31	PASS
	Ant1	5700	0.24	≤10.31	PASS
	Ant2	5700	0.16	≤10.31	PASS
	total	5700	3.21	≤10.31	PASS
	Ant1	5745	-3.53	≤29.31	PASS
	Ant2	5745	-2.49	≤29.31	PASS
	total	5745	0.03	≤29.31	PASS
	Ant1	5785	-2.90	≤29.31	PASS
	Ant2	5785	-1.06	≤29.31	PASS
	total	5785	1.13	≤29.31	PASS
	Ant1	5825	-0.53	≤29.31	PASS
	Ant2	5825	-0.44	≤29.31	PASS
	total	5825	2.53	≤29.31	PASS
11N40MIMO	Ant1	5190	-2.11	≤10.31	PASS

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	Ant2	5190	-2.42	≤10.31	PASS
	total	5190	0.75	≤10.31	PASS
	Ant1	5230	-2.46	≤10.31	PASS
	Ant2	5230	-2.78	≤10.31	PASS
	total	5230	0.39	≤10.31	PASS
	Ant1	5270	-2.34	≤10.31	PASS
	Ant2	5270	-3.07	≤10.31	PASS
	total	5270	0.32	≤10.31	PASS
	Ant1	5310	-1.66	≤10.31	PASS
	Ant2	5310	-1.65	≤10.31	PASS
	total	5310	1.36	≤10.31	PASS
	Ant1	5510	-2.82	≤10.31	PASS
	Ant2	5510	-3.30	≤10.31	PASS
	total	5510	-0.04	≤10.31	PASS
	Ant1	5550	-2.94	≤10.31	PASS
	Ant2	5550	-4.04	≤10.31	PASS
	total	5550	-0.44	≤10.31	PASS
	Ant1	5670	-3.33	≤10.31	PASS
	Ant2	5670	-3.84	≤10.31	PASS
	total	5670	-0.57	≤10.31	PASS
	Ant1	5755	-6.20	≤29.31	PASS
	Ant2	5755	-4.81	≤29.31	PASS
	total	5755	-2.44	≤29.31	PASS
	Ant1	5795	-5.76	≤29.31	PASS
	Ant2	5795	-4.31	≤29.31	PASS
	total	5795	-1.96	≤29.31	PASS
11AC80MIMO	Ant1	5210	-5.28	≤10.31	PASS
	Ant2	5210	-5.64	≤10.31	PASS
	total	5210	-2.45	≤10.31	PASS
	Ant1	5290	-6.78	≤10.31	PASS
	Ant2	5290	-5.64	≤10.31	PASS
	total	5290	-3.16	≤10.31	PASS
	Ant1	5530	-6.67	≤10.31	PASS
	Ant2	5530	-7.23	≤10.31	PASS
	total	5530	-3.93	≤10.31	PASS
	Ant1	5610	-6.93	≤10.31	PASS
	Ant2	5610	-7.44	≤10.31	PASS
	total	5610	-4.17	≤10.31	PASS
	Ant1	5775	-10.19	≤29.31	PASS
	Ant2	5775	-7.75	≤29.31	PASS
	total	5775	-5.79	≤29.31	PASS
11AC160MIMO	Ant1	5250_UNII-1	-8.63	≤10.31	PASS
	Ant2	5250_UNII-1	-8.45	≤10.31	PASS
	total	5250_UNII-1	-5.53	≤10.31	PASS
	Ant1	5250_UNII-2A	-9.98	≤10.31	PASS
	Ant2	5250_UNII-2A	-8.98	≤10.31	PASS
	total	5250_UNII-2A	-6.44	≤10.31	PASS
	Ant1	5570	-8.57	≤10.31	PASS
	Ant2	5570	-9.39	≤10.31	PASS
	total	5570	-5.95	≤10.31	PASS
11AX20MIMO	Ant1	5180	0.28	≤10.31	PASS
	Ant2	5180	0.14	≤10.31	PASS
	total	5180	3.22	≤10.31	PASS
	Ant1	5200	0.40	≤10.31	PASS
	Ant2	5200	0.07	≤10.31	PASS
	total	5200	3.25	≤10.31	PASS
	Ant1	5240	0.14	≤10.31	PASS
	Ant2	5240	-0.45	≤10.31	PASS
	total	5240	2.87	≤10.31	PASS
	Ant1	5260	0.66	≤10.31	PASS
	Ant2	5260	-0.02	≤10.31	PASS
	total	5260	3.34	≤10.31	PASS
	Ant1	5280	0.62	≤10.31	PASS
	Ant2	5280	-0.23	≤10.31	PASS
	total	5280	3.23	≤10.31	PASS

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	Ant1	5320	1.46	≤10.31	PASS
	Ant2	5320	1.73	≤10.31	PASS
	total	5320	4.61	≤10.31	PASS
	Ant1	5500	-0.43	≤10.31	PASS
	Ant2	5500	-0.27	≤10.31	PASS
	total	5500	2.66	≤10.31	PASS
	Ant1	5580	-0.07	≤10.31	PASS
	Ant2	5580	-1.05	≤10.31	PASS
	total	5580	2.48	≤10.31	PASS
	Ant1	5700	0.15	≤10.31	PASS
	Ant2	5700	-0.01	≤10.31	PASS
	total	5700	3.08	≤10.31	PASS
	Ant1	5745	-2.95	≤29.31	PASS
	Ant2	5745	-2.45	≤29.31	PASS
	total	5745	0.32	≤29.31	PASS
	Ant1	5785	-2.44	≤29.31	PASS
	Ant2	5785	-1.93	≤29.31	PASS
	total	5785	0.83	≤29.31	PASS
	Ant1	5825	-0.93	≤29.31	PASS
	Ant2	5825	-1.34	≤29.31	PASS
	total	5825	1.88	≤29.31	PASS
11AX40MIMO	Ant1	5190	-2.40	≤10.31	PASS
	Ant2	5190	-2.64	≤10.31	PASS
	total	5190	0.49	≤10.31	PASS
	Ant1	5230	-2.63	≤10.31	PASS
	Ant2	5230	-3.60	≤10.31	PASS
	total	5230	-0.08	≤10.31	PASS
	Ant1	5270	-3.34	≤10.31	PASS
	Ant2	5270	-3.32	≤10.31	PASS
	total	5270	-0.32	≤10.31	PASS
	Ant1	5310	-1.00	≤10.31	PASS
	Ant2	5310	-1.48	≤10.31	PASS
	total	5310	1.78	≤10.31	PASS
	Ant1	5510	-2.82	≤10.31	PASS
	Ant2	5510	-3.60	≤10.31	PASS
	total	5510	-0.18	≤10.31	PASS
	Ant1	5550	-3.33	≤10.31	PASS
	Ant2	5550	-4.11	≤10.31	PASS
	total	5550	-0.69	≤10.31	PASS
	Ant1	5670	-3.99	≤10.31	PASS
	Ant2	5670	-3.70	≤10.31	PASS
	total	5670	-0.83	≤10.31	PASS
11AX80MIMO	Ant1	5755	-6.39	≤29.31	PASS
	Ant2	5755	-5.54	≤29.31	PASS
	total	5755	-2.93	≤29.31	PASS
	Ant1	5795	-6.08	≤29.31	PASS
	Ant2	5795	-4.63	≤29.31	PASS
	total	5795	-2.28	≤29.31	PASS
	Ant1	5210	-5.57	≤10.31	PASS
	Ant2	5210	-5.52	≤10.31	PASS
	total	5210	-2.53	≤10.31	PASS
	Ant1	5290	-6.69	≤10.31	PASS
	Ant2	5290	-6.53	≤10.31	PASS
	total	5290	-3.60	≤10.31	PASS
	Ant1	5530	-6.64	≤10.31	PASS
	Ant2	5530	-6.86	≤10.31	PASS
	total	5530	-3.74	≤10.31	PASS
11AX160MIMO	Ant1	5610	-6.59	≤10.31	PASS
	Ant2	5610	-7.96	≤10.31	PASS
	total	5610	-4.21	≤10.31	PASS
	Ant1	5775	-10.00	≤29.31	PASS
	Ant2	5775	-7.66	≤29.31	PASS
	total	5775	-5.66	≤29.31	PASS
	Ant1	5250 UNII-1	-8.79	≤10.31	PASS
	Ant2	5250 UNII-1	-9.53	≤10.31	PASS

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	total	5250 UNII-1	-6.13	≤ 10.31	PASS
	Ant1	5250 UNII-2A	-9.38	≤ 10.31	PASS
	Ant2	5250 UNII-2A	-9.56	≤ 10.31	PASS
	total	5250 UNII-2A	-6.46	≤ 10.31	PASS
	Ant1	5570	-8.69	≤ 10.31	PASS
	Ant2	5570	-9.69	≤ 10.31	PASS
	total	5570	-6.15	≤ 10.31	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.