

5.6 Maximum Conducted Output Power

Test Information:

Serial No.:	31KI-4	Test Date:	2025/4/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jojo Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/06
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2024/08/27	2025/08/26

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	FCC Limit (dBm)	EIRP (dBm)	RSS 247 EIRP Limit (dBm)
802.11a	5180	15.24	24	17.19	22.24
	5200	15.38	24	17.33	22.23
	5240	15.42	24	17.37	22.23
802.11n20	5180	15.49	24	17.44	22.54
	5200	15.39	24	17.34	22.54
	5240	15.49	24	17.44	22.54
802.11n40	5190	15.04	24	16.99	23
	5230	15.43	24	17.38	23

Note: The device is a Client device.

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	FCC Limit (dBm)	RSS 247 Limit (dBm)	EIRP (dBm)	RSS 247 EIRP Limit (dBm)
802.11a	5260	15.23	24	23.23	17.16	29.23
	5280	14.83	24	23.21	16.76	29.21
	5320	15.21	24	23.24	17.14	29.24
802.11n20	5260	14.86	24	23.52	16.79	29.52
	5280	14.97	24	23.52	16.9	29.52
	5320	14.86	24	23.52	16.79	29.52
802.11n40	5270	12.74	24	24	14.67	30
	5310	12.52	24	24	14.45	30

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	RSS 247 Limit (dBm)	EIRP (dBm)	RSS 247 EIRP Limit (dBm)
802.11a	5500	13.08	24	23.20	16.32	29.20
	5580	13.38	24	23.21	16.62	29.21
	5700	12.8	24	23.21	16.04	29.21
	5720	10.65	24	23.20	13.89	29.20
802.11n20	5500	12.73	24	23.49	15.97	29.49
	5580	12.75	24	23.49	15.99	29.49
	5700	11.87	24	23.48	15.11	29.48
	5720	10.18	24	23.48	13.42	29.48
802.11n40	5510	12.79	24	23.20	16.03	30
	5550	12.43	24	23.21	15.67	30
	5670	12.55	24	23.21	15.79	30
	5710	11.25	24	23.20	14.49	30

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)
802.11a	5745	16.29	30
	5785	15.01	30
	5825	14.92	30
802.11n20	5745	16.32	30
	5785	14.86	30
	5825	14.94	30
802.11n40	5755	15.98	30
	5795	14.77	30

5.7 Maximum power spectral density

Test Information:

Serial No.:	31KI-4	Test Date:	2025/4/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jojo Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	FCC Limit (dBm/MHz)	EIRP (dBm)	RSS 247 EIRP Limit (dBm)
802.11a	5180	4.36	0	4.36	11	6.31	10
	5200	4.40	0	4.40	11	6.35	10
	5240	4.42	0	4.42	11	6.37	10
802.11n20	5180	4.42	0	4.42	11	6.37	10
	5200	4.12	0	4.12	11	6.07	10
	5240	4.38	0	4.38	11	6.33	10
802.11n40	5190	0.87	0	0.87	11	2.82	10
	5230	1.40	0	1.40	11	3.35	10

Note: The device is a Client device.

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	FCC&IC Limit (dBm/MHz)
802.11a	5260	4.59	0	4.59	11
	5280	3.98	0	3.98	11
	5320	4.29	0	4.29	11
802.11n20	5260	3.61	0	3.61	11
	5280	3.96	0	3.96	11
	5320	3.75	0	3.75	11
802.11n40	5270	-1.23	0	-1.23	11
	5310	-1.45	0	-1.45	11

5470-5725MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	FCC&IC Limit (dBm/MHz)
802.11a	5500	2.27	0	2.27	11
	5580	2.48	0	2.48	11
	5700	1.85	0	1.85	11
	5720	0.62	0	0.62	11
802.11n20	5500	1.62	0	1.62	11
	5580	1.50	0	1.50	11
	5700	0.81	0	0.81	11
	5720	0.17	0	0.17	11
802.11n40	5510	-1.21	0	-1.21	11
	5550	-1.40	0	-1.40	11
	5670	-1.44	0	-1.44	11
	5710	-2.51	0	-2.51	11

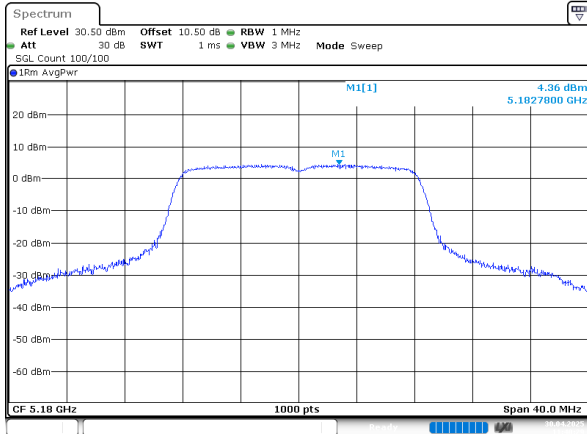
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor (dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)
802.11a	5745	2.49	0	2.49	30
	5785	1.05	0	1.05	30
	5825	1.12	0	1.12	30
802.11n20	5745	2.31	0	2.31	30
	5785	0.89	0	0.89	30
	5825	0.83	0	0.83	30
802.11n40	5755	-1.15	0	-1.15	30
	5795	-2.24	0	-2.24	30

Result = Reading + Duty Cycle Factor

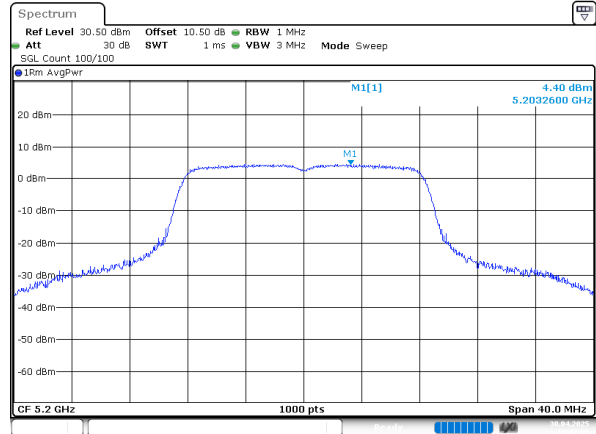
5150-5250MHz

802.11a_5180MHz



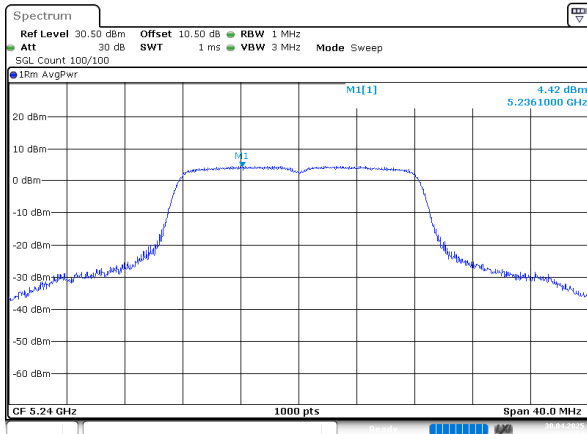
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802.11a_5200MHz



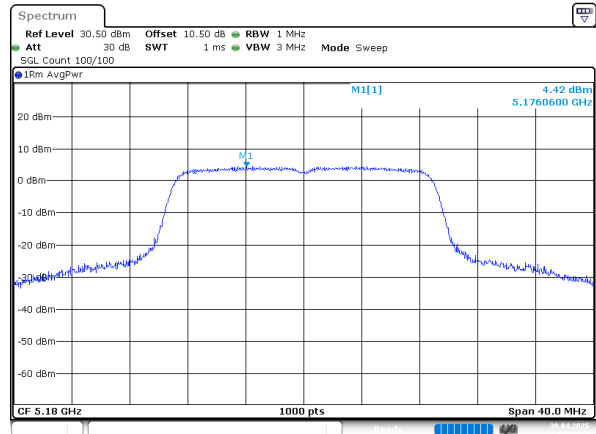
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802.11a_5240MHz



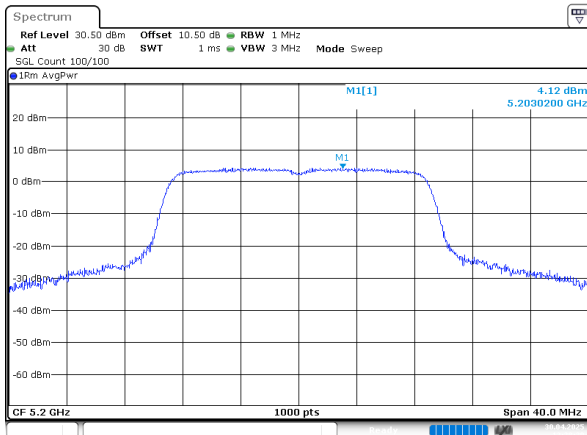
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802.11n20_5180MHz



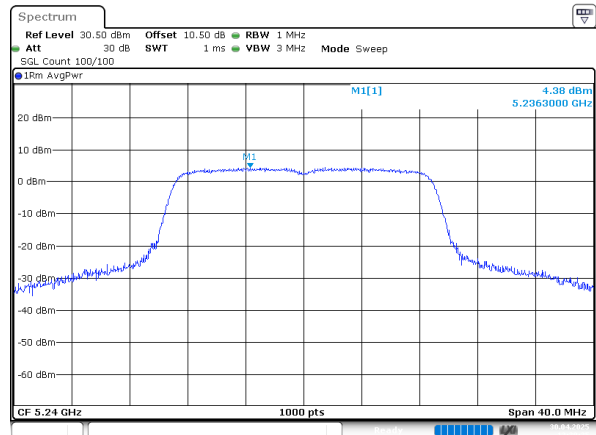
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802.11n20_5200MHz



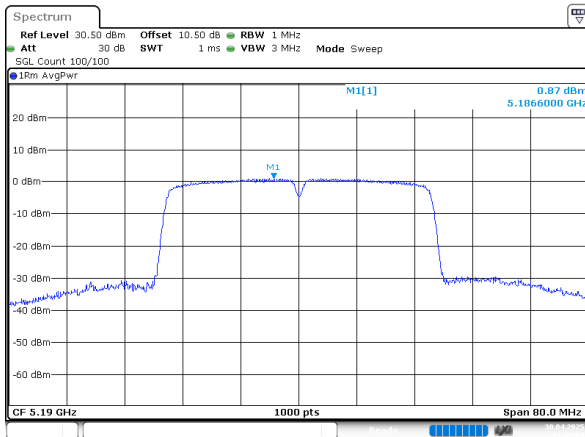
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802.11n20_5240MHz



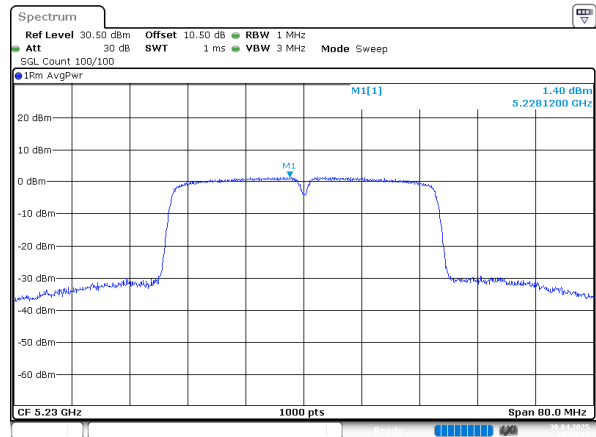
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802.11n40_5190MHz



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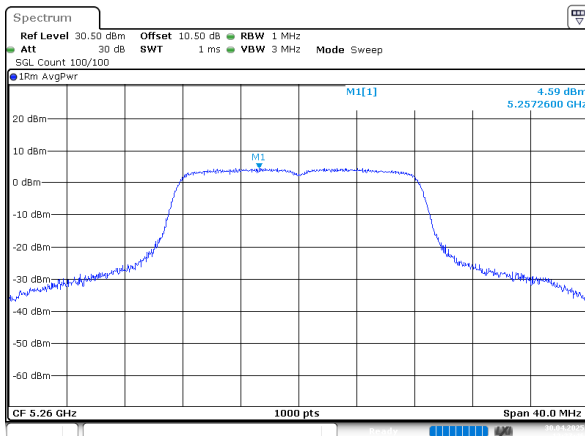
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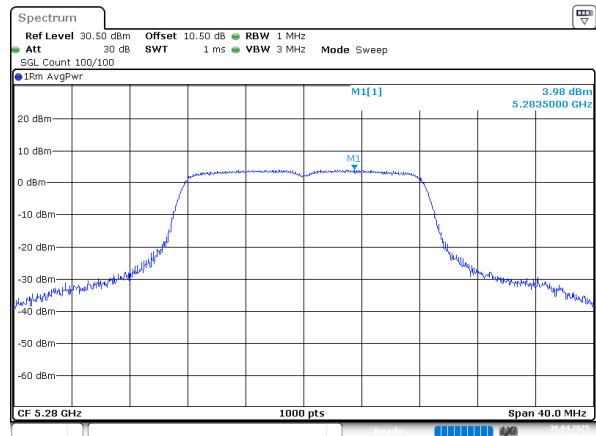
5250-5350MHz

802.11a_5260MHz



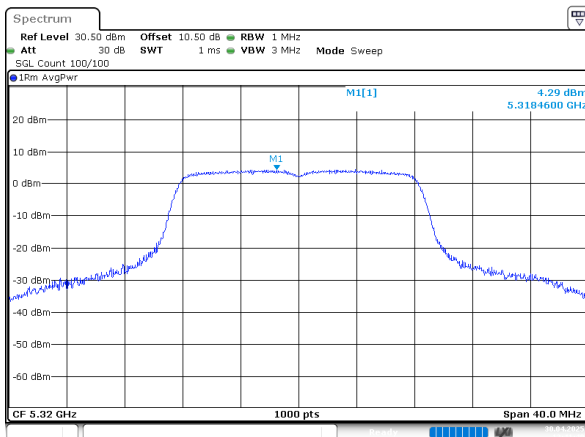
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802.11a_5280MHz



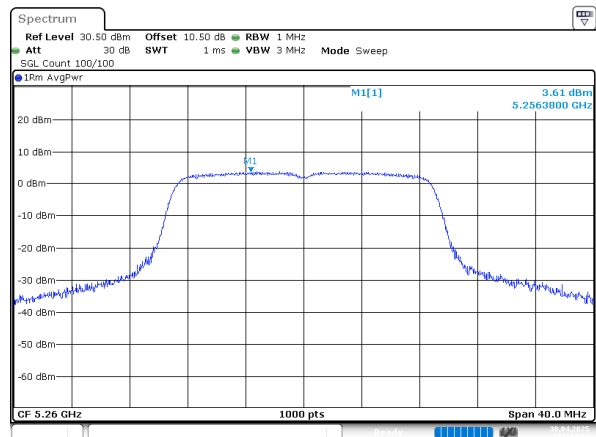
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802.11a_5320MHz



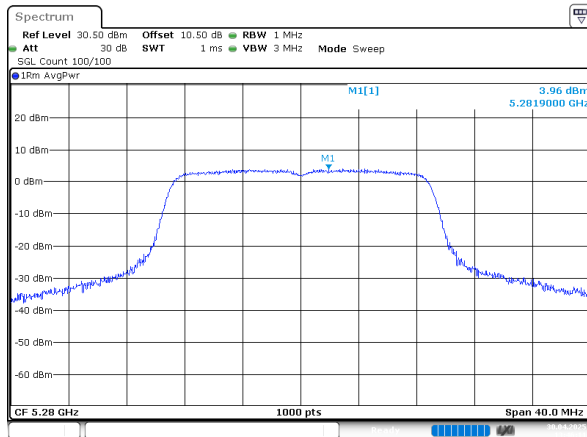
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802.11n20_5260MHz



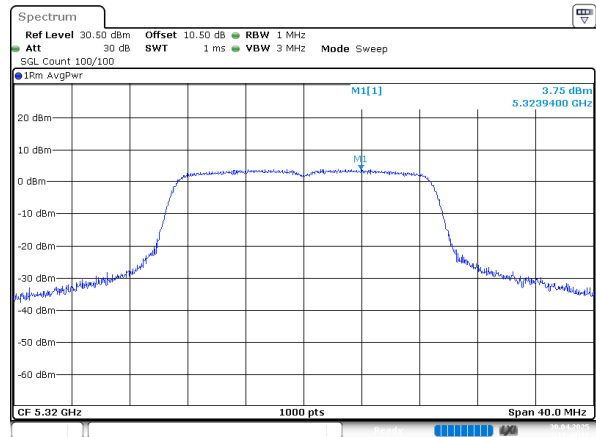
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802.11n20_5280MHz



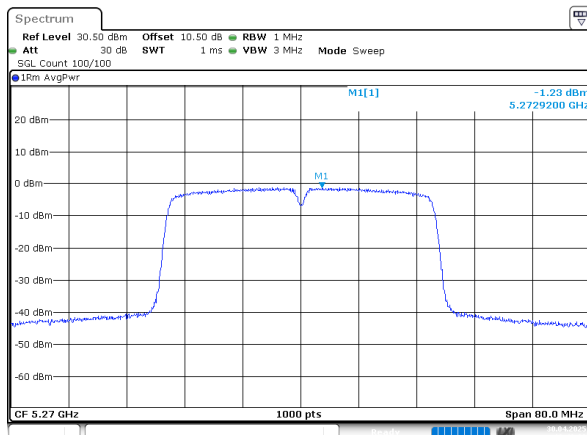
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802.11n20_5320MHz



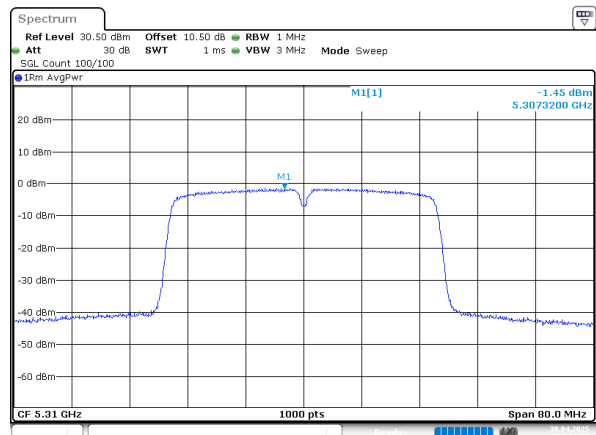
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802.11n40_5270MHz



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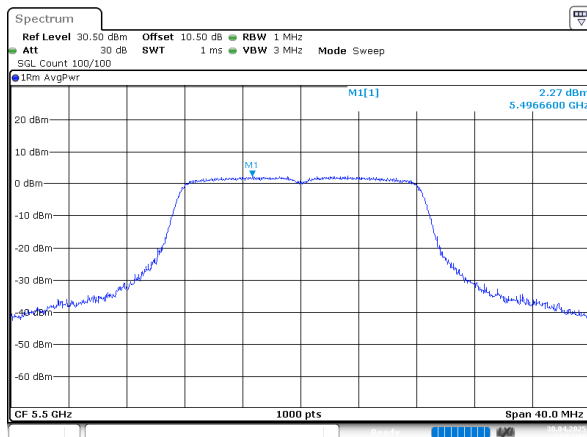
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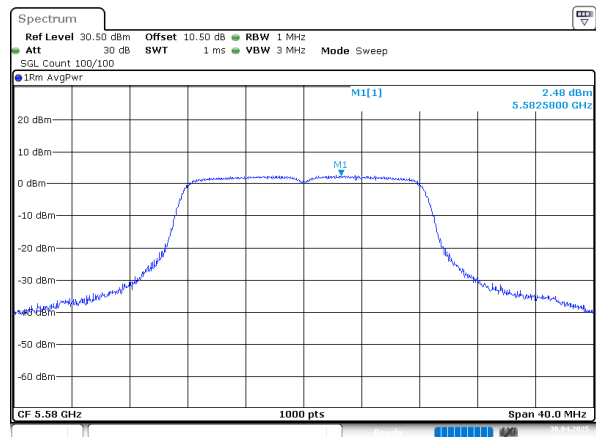
5470-5725MHz

802.11a_5500MHz



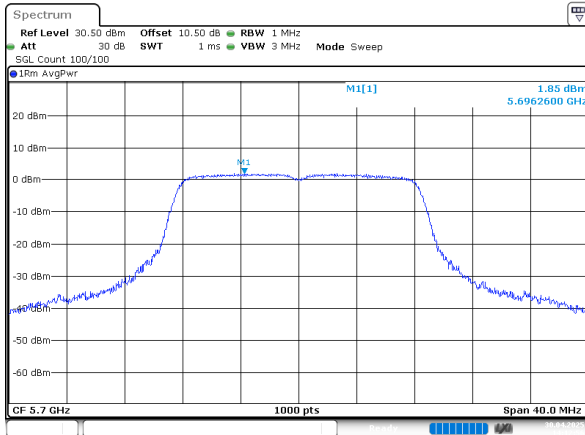
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802.11a_5580MHz



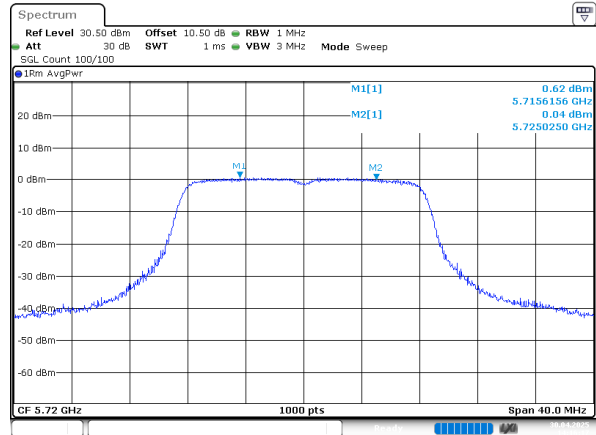
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802.11a_5700MHz



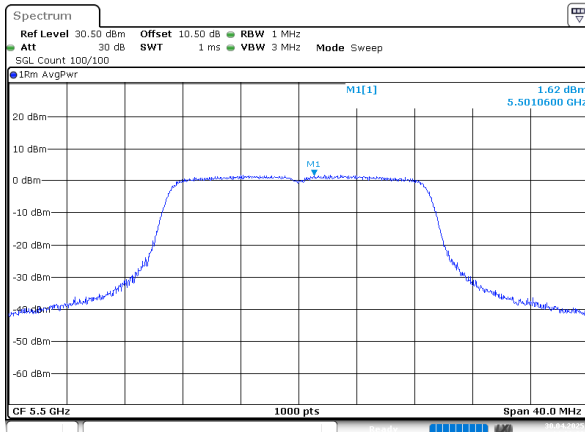
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802.11a_5720MHz



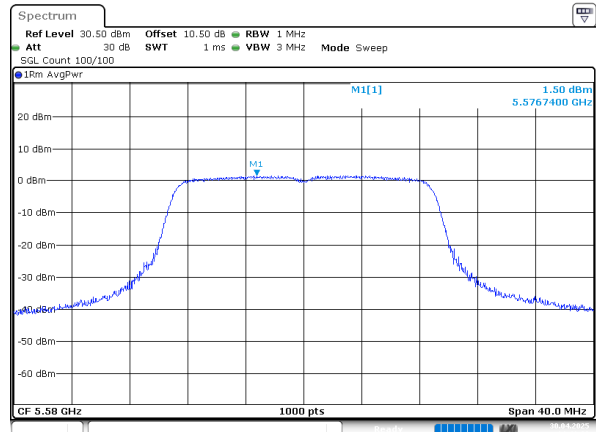
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802.11n20_5500MHz



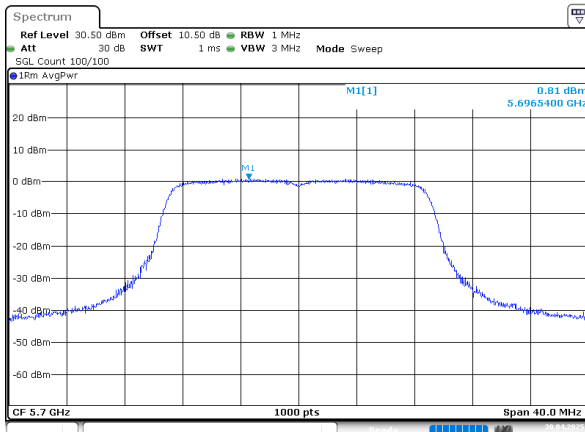
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802.11n20_5580MHz



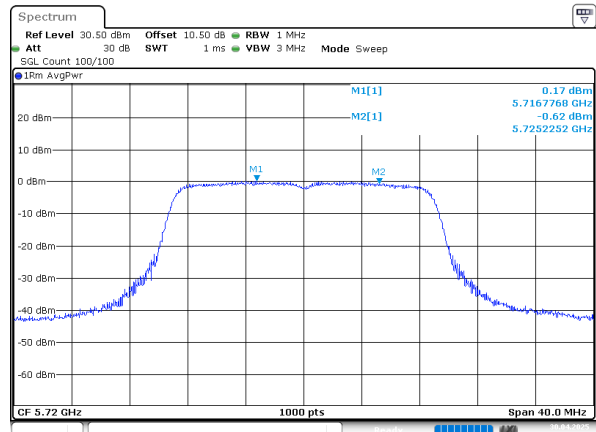
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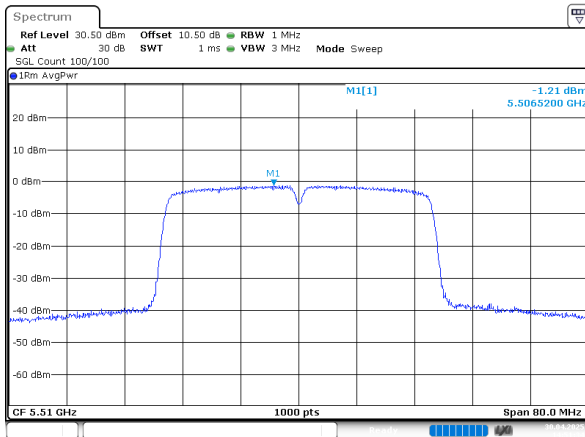
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802.11n20_5720MHz



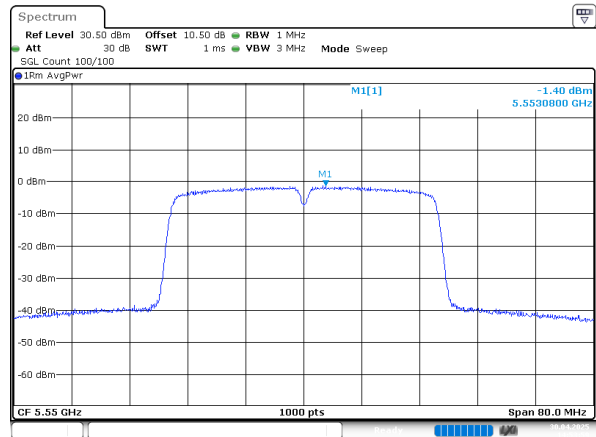
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802.11n40_5510MHz



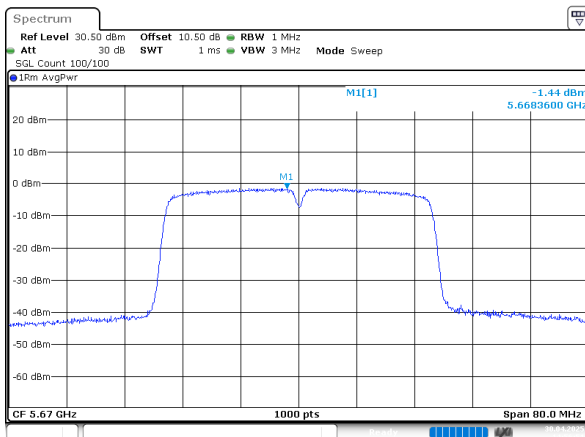
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802.11n40_5550MHz



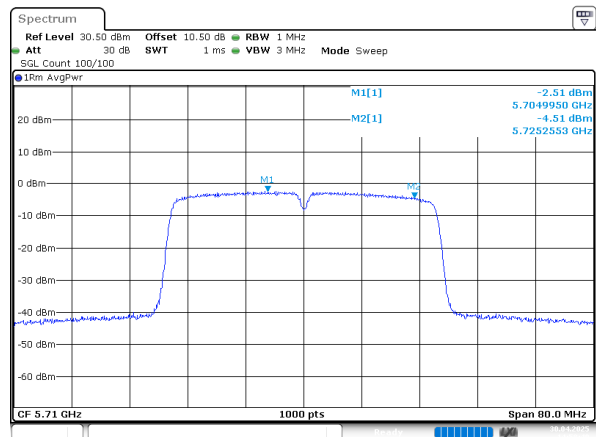
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802.11n40_5670MHz



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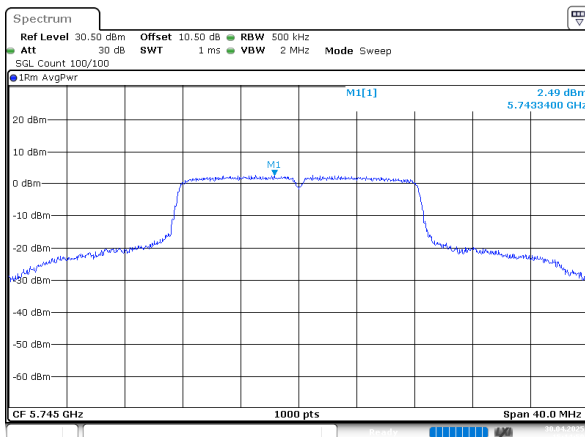
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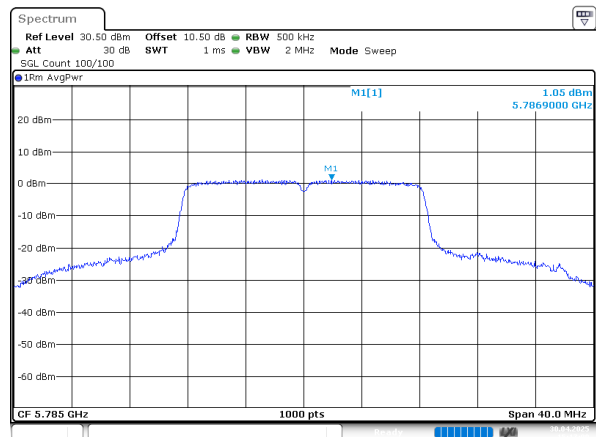
5725-5850MHz

802.11a_5745MHz



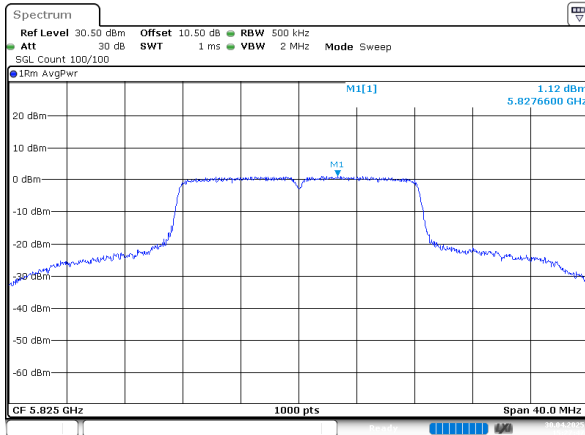
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802.11a_5785MHz



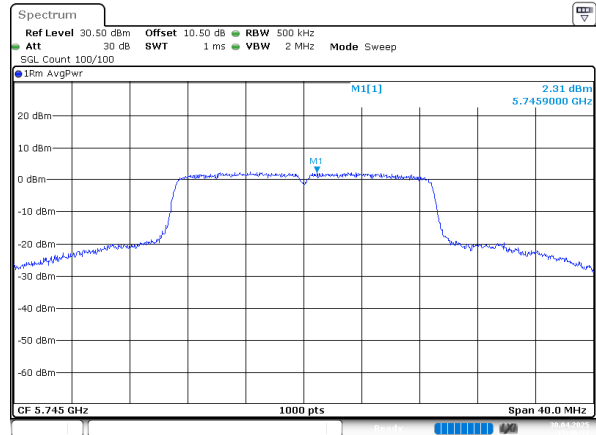
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802.11a_5825MHz



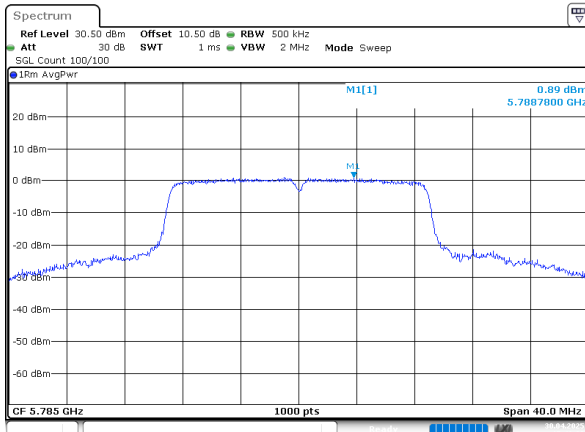
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802.11n20_5745MHz



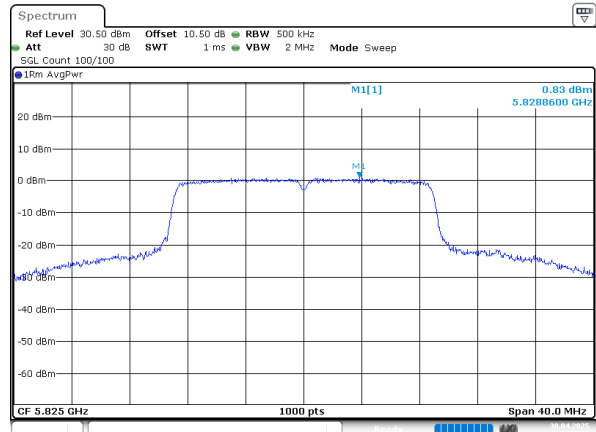
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802.11n20_5785MHz



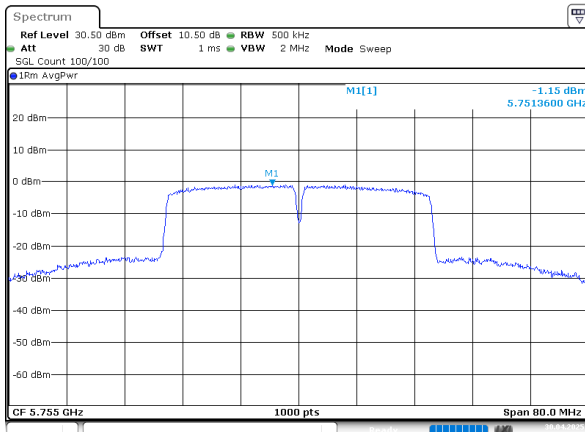
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802.11n20_5825MHz



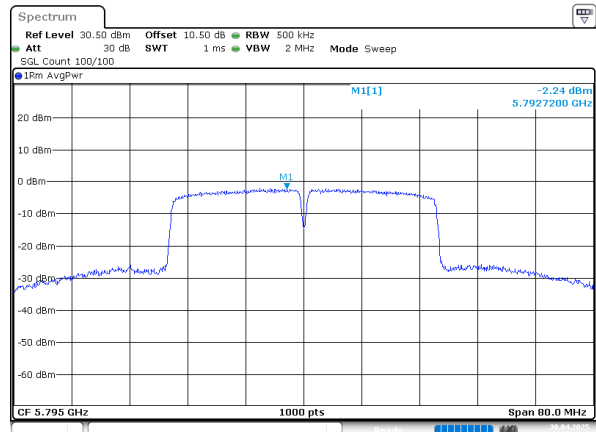
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802.11n40_5755MHz



ProjectNo.:2502S54239E-RF Tester:Jojo Zhou
Date: 30.APR.2025 15:53:44

802.11n40_5795MHz



ProjectNo.:2502S54239E-RF Tester:Jojo Zhou
Date: 30.APR.2025 15:55:11

5.8 Duty Cycle

Test Information:

Serial No.:	31KI-4	Test Date:	2025/4/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jojo Zhou	Test Result:	/

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04

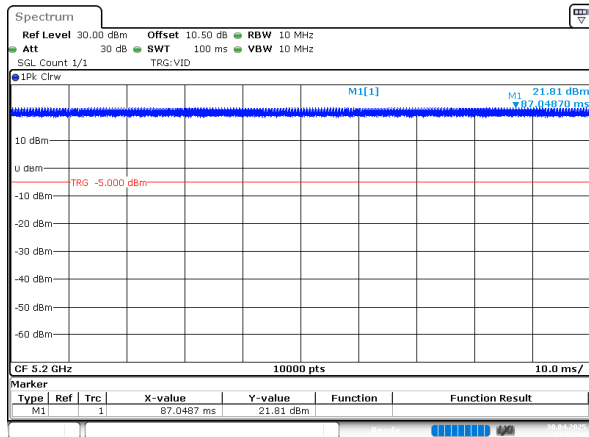
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	100	100	100	0	NA	0.010
802.11n20	5200	100	100	100	0	NA	0.010
802.11n40	5190	100	100	100	0	NA	0.010

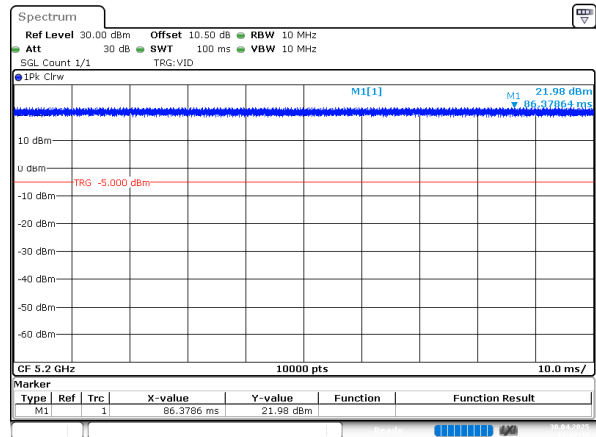
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802.11a_5200MHz



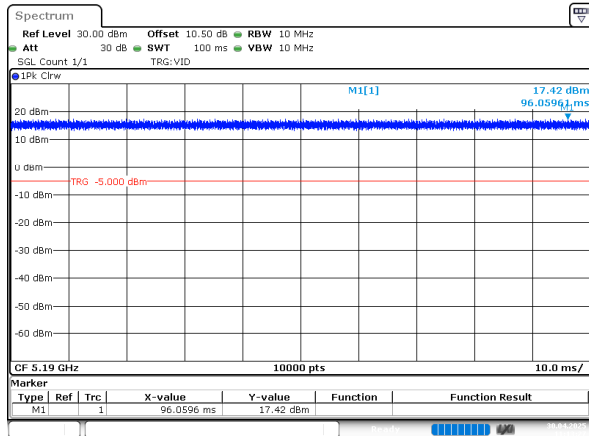
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Date: 30.APR.2025 11:12:08

802.11n20_5200MHz



ProjectNo.:2502S54239E-RF Tester:Jojo Zhou
Date: 30.APR.2025 11:12:47

802.11n40_5190MHz



ProjectNo.:2502S54239E-RF Tester:Jojo Zhou
Date: 30.APR.2025 11:13:28

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502S54239E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502S54239E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502S54239E-RF-00C-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******