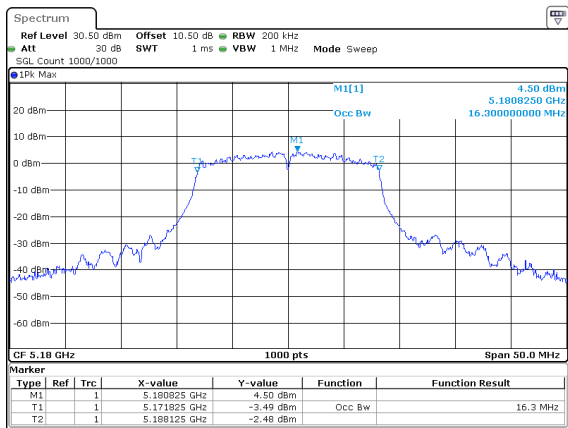


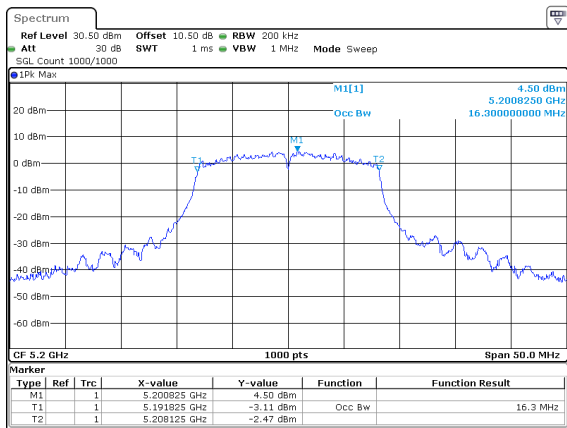
5150-5250MHz

802.11a_5180MHz



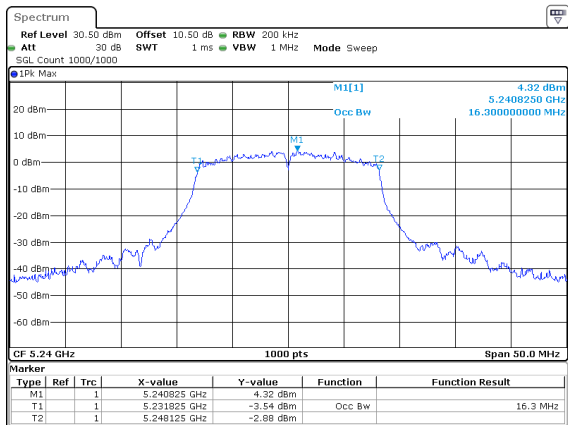
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Date: 16.FEB.2025 20:58:12

802.11a_5200MHz



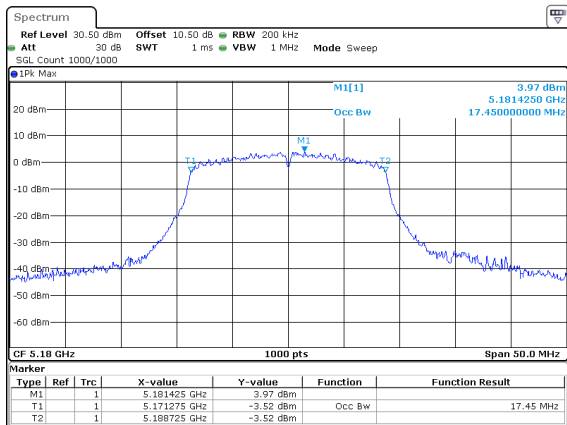
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Date: 16.FEB.2025 21:01:11

802.11a_5240MHz



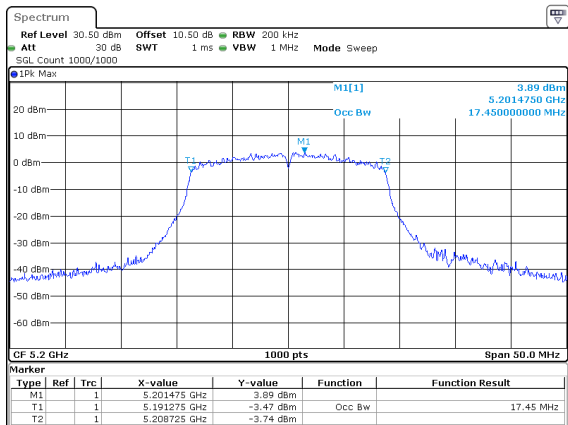
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Date: 16.FEB.2025 21:03:22

802.11n20_5180MHz



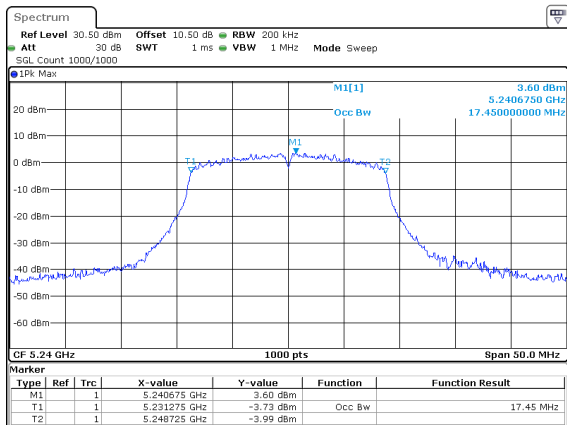
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802.11n20_5200MHz



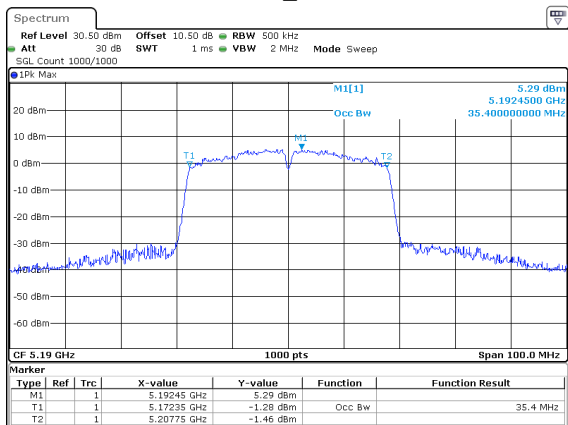
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802.11n20_5240MHz



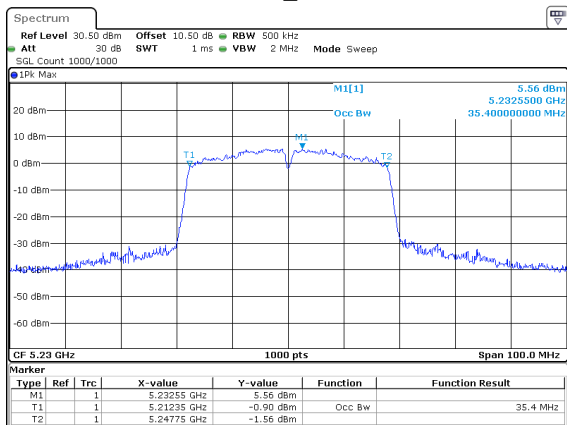
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Date: 16.FEB.2025 21:11:19

802.11n40_5190MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
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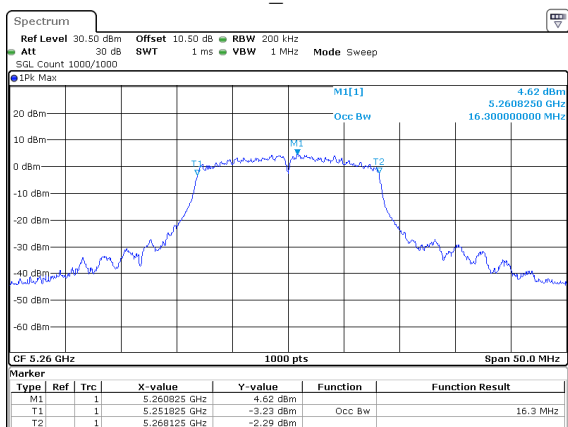
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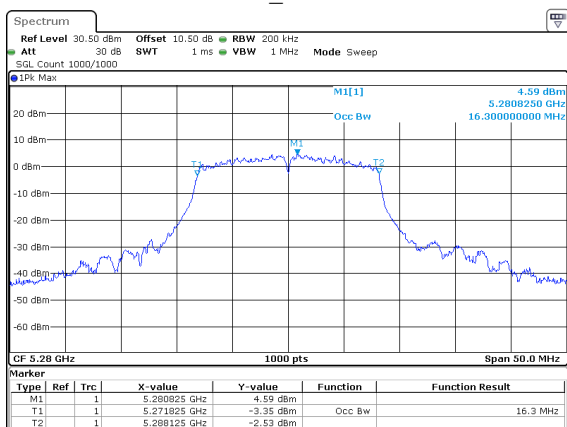
5250-5350MHz

802.11a_5260MHz



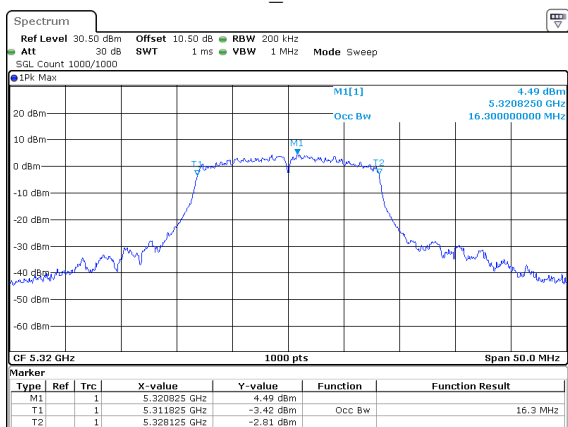
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802.11a_5280MHz



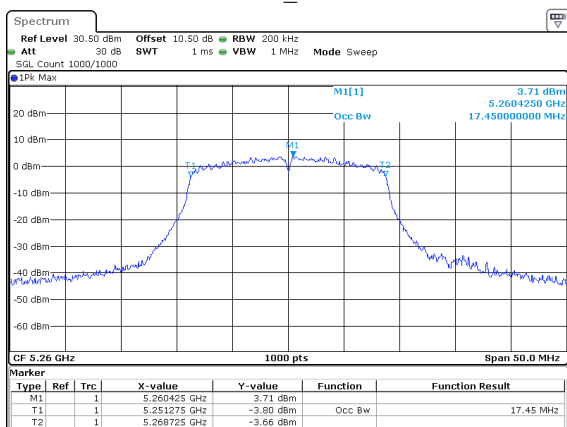
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802.11a_5320MHz



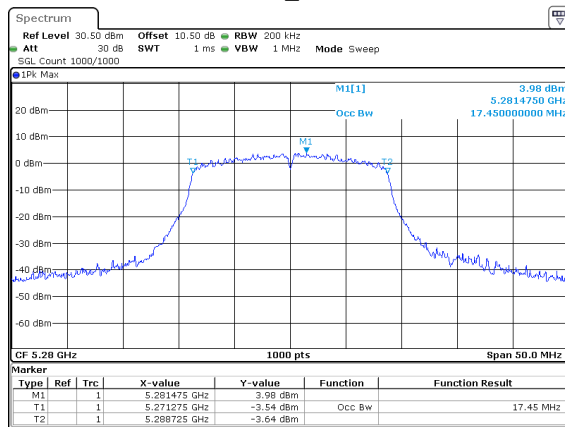
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802.11n20_5260MHz



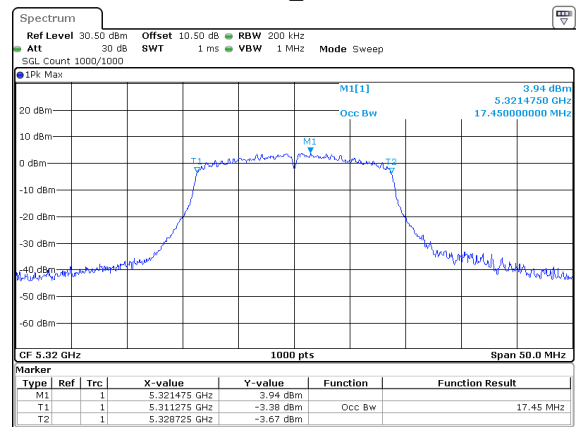
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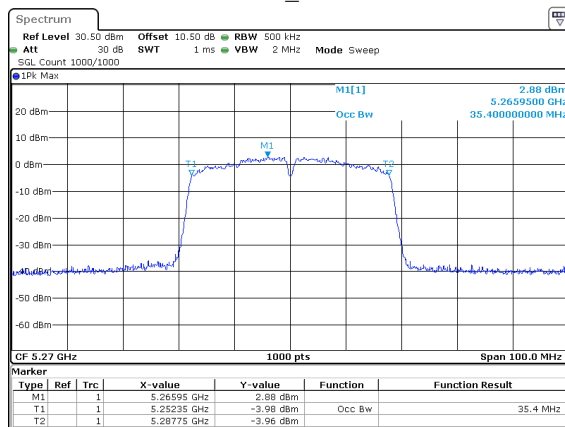
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802.11n20_5320MHz



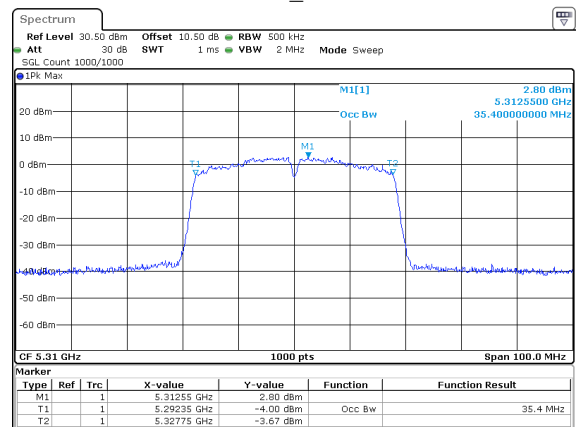
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802.11n40_5270MHz



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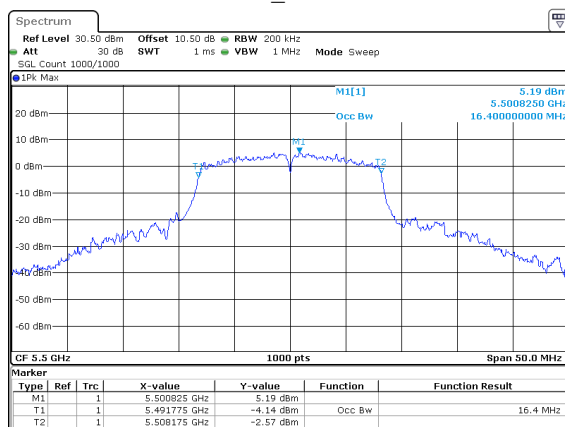
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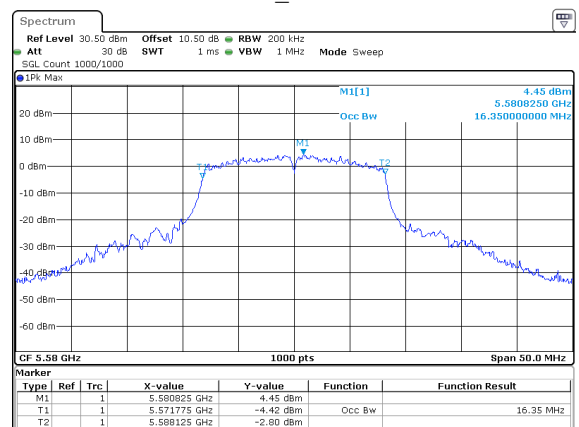
5470-5725MHz

802.11a_5500MHz



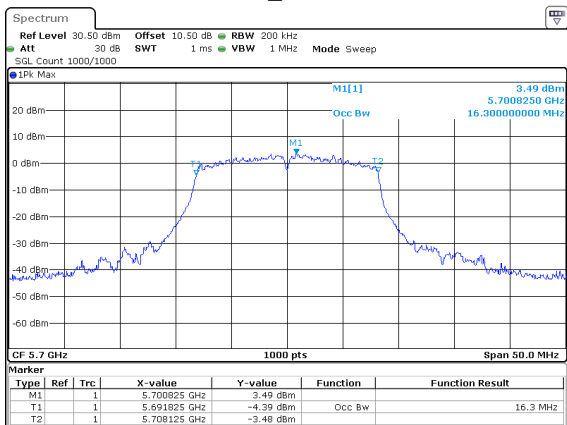
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802.11a_5580MHz



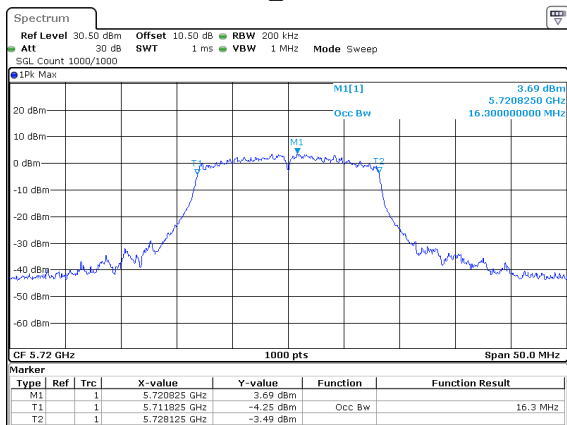
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802.11a_5700MHz



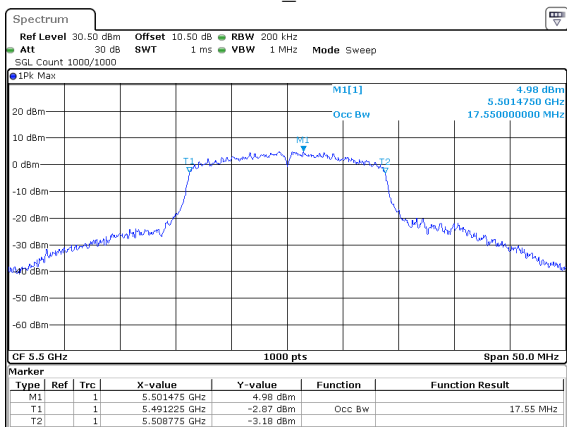
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802.11a_5720MHz



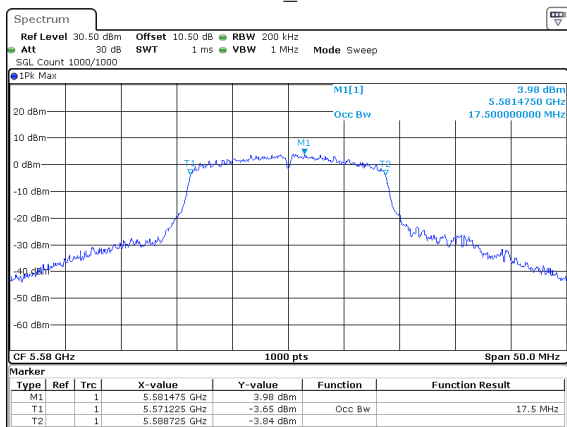
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802.11n20_5500MHz



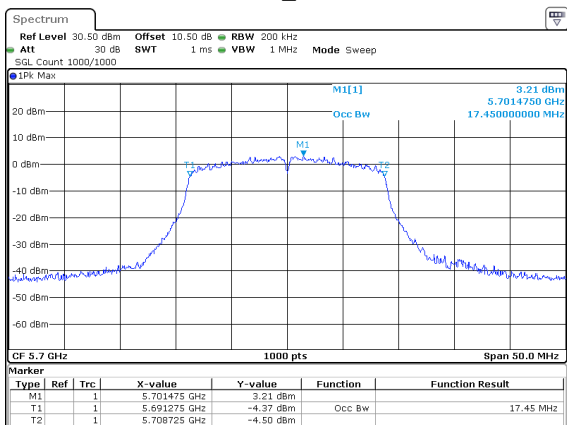
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802.11n20_5580MHz



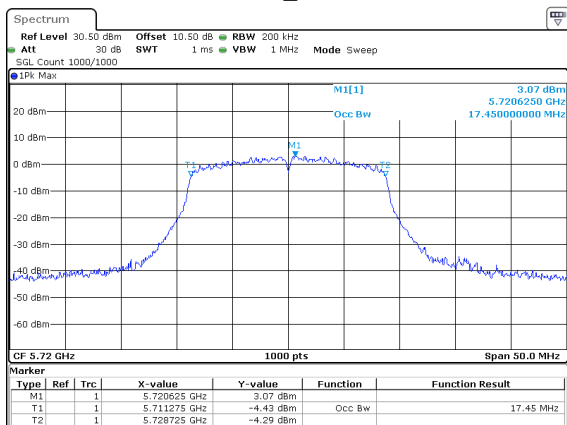
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802.11n20_5700MHz



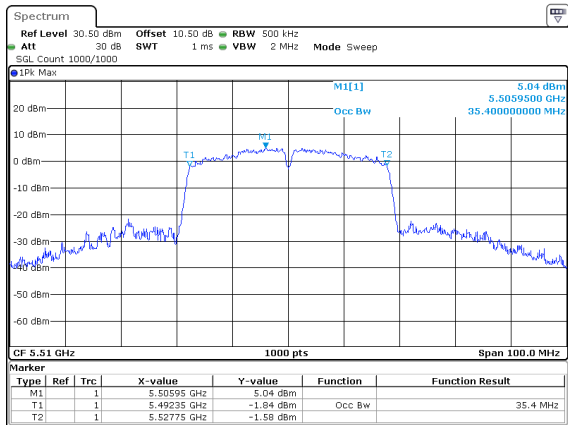
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802.11n20_5720MHz



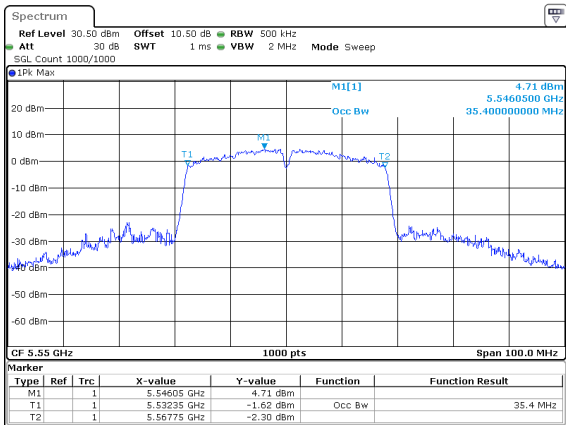
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802.11n40_5510MHz



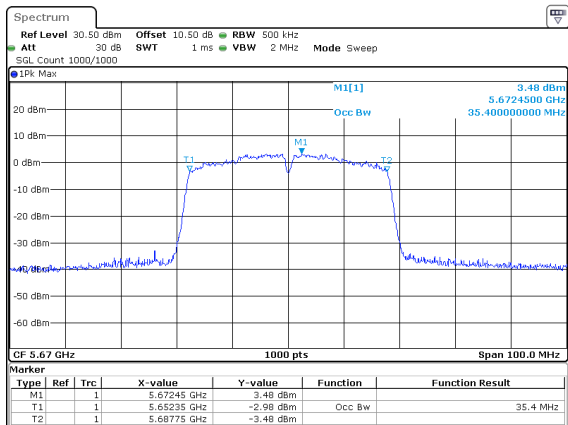
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Date: 24.FEB.2025 23:02:00

802.11n40_5550MHz



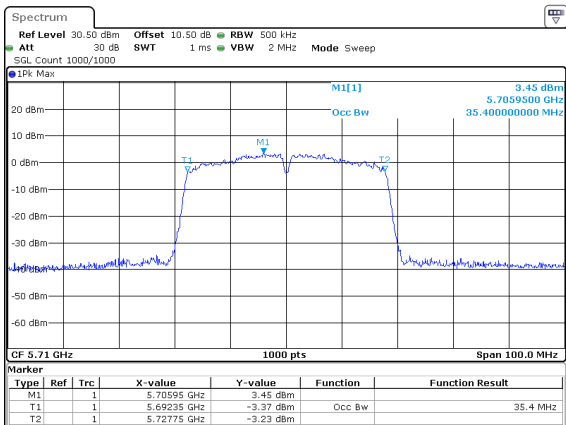
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802.11n40_5670MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
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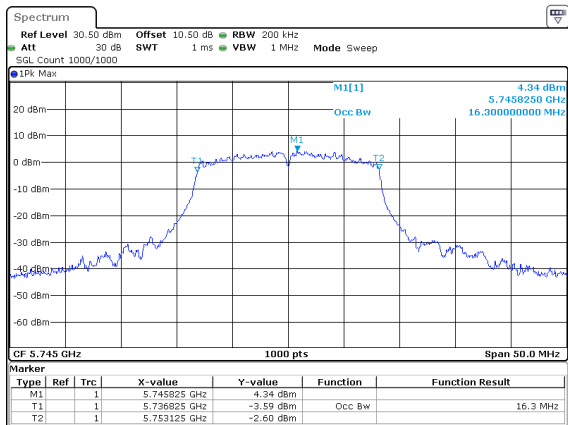
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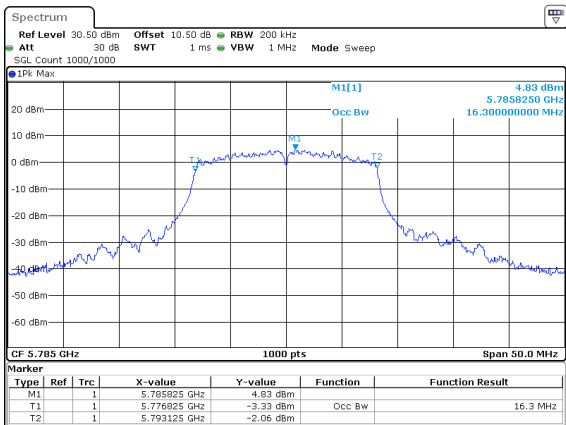
5725-5850MHz

802.11a_5745MHz



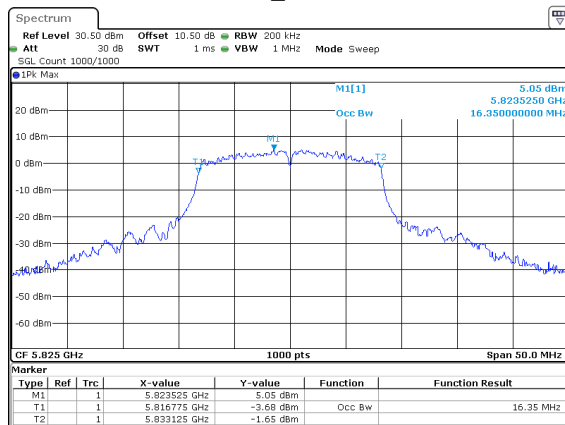
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802.11a_5785MHz



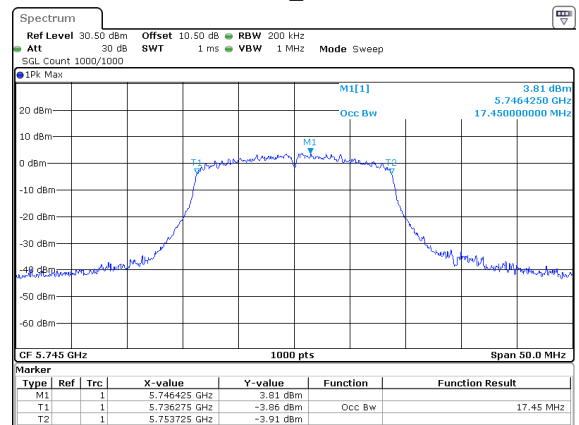
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802.11a_5825MHz



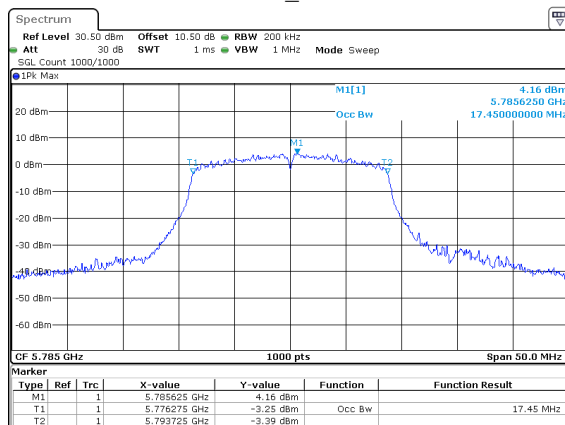
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802.11n20_5745MHz



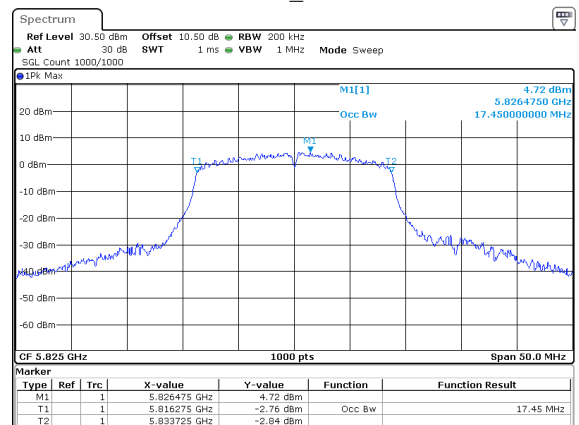
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802.11n20_5785MHz



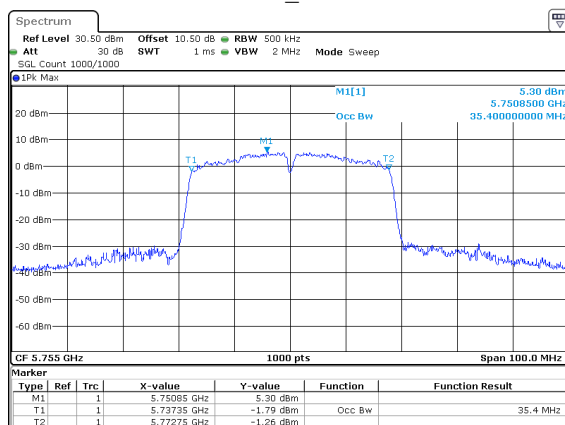
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802.11n20_5825MHz



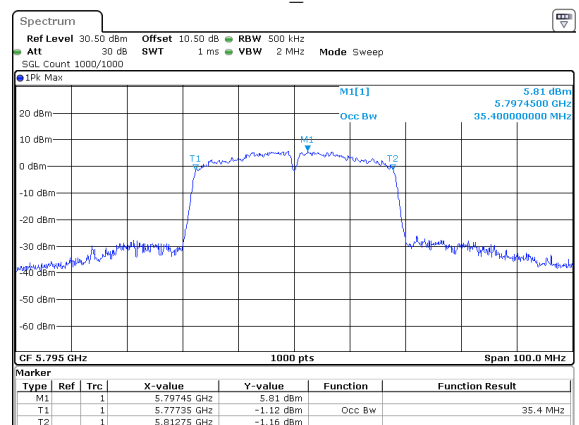
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Date: 16.FEB.2025 23:19:19

802.11n40_5755MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumanter Liang
Date: 16.FEB.2025 23:20:52

802.11n40_5795MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumanter Liang
Date: 16.FEB.2025 23:22:33

Maximum Conducted Output Power

Test Information:

Sample No.:	2WQQ-9	Test Date:	2025/02/16~2025/02/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.8	Relative Humidity: (%)	47	ATM Pressure: (kPa)	101
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	14.59	23.98	Pass
	5200	14.63	23.98	Pass
	5240	14.39	23.98	Pass
802.11n20	5180	14.44	23.98	Pass
	5200	14.36	23.98	Pass
	5240	14.23	23.98	Pass
802.11n40	5190	14.37	23.98	Pass
	5230	14.54	23.98	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5260	14.73	23.98	Pass
	5280	14.71	23.98	Pass
	5320	14.58	23.98	Pass
802.11n20	5260	14.43	23.98	Pass
	5280	14.47	23.98	Pass
	5320	14.45	23.98	Pass
802.11n40	5270	11.96	23.98	Pass
	5310	11.87	23.98	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5500	15.51	23.98	Pass
	5580	14.94	23.98	Pass
	5700	14.02	23.98	Pass
	5720	13.0	23.98	Pass
802.11n20	5500	15.17	23.98	Pass
	5580	14.57	23.98	Pass
	5700	13.95	23.98	Pass
	5720	13.18	23.98	Pass
802.11n40	5510	14.11	23.98	Pass
	5550	13.85	23.98	Pass
	5670	12.57	23.98	Pass
	5710	12.49	23.98	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	14.37	30	Pass
	5785	14.89	30	Pass
	5825	15.29	30	Pass
802.11n20	5745	14.15	30	Pass
	5785	14.69	30	Pass
	5825	15.10	30	Pass
802.11n40	5755	14.27	30	Pass
	5795	14.70	30	Pass

Power Spectral Density

Test Information:

Sample No.:	2WQQ-9	Test Date:	2025/02/16~2025/02/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.8	Relative Humidity: (%)	47	ATM Pressure: (kPa)	101
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	4.65	/	4.65	11	Pass
	5200	4.65	/	4.65	11	Pass
	5240	4.48	/	4.48	11	Pass
802.11n20	5180	4.47	/	4.47	11	Pass
	5200	4.28	/	4.28	11	Pass
	5240	4.46	/	4.46	11	Pass
802.11n40	5190	1.44	/	1.44	11	Pass
	5230	1.56	/	1.56	11	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5260	4.82	/	4.82	11	Pass
	5280	4.68	/	4.68	11	Pass
	5320	4.54	/	4.54	11	Pass
802.11n20	5260	4.33	/	4.33	11	Pass
	5280	4.48	/	4.48	11	Pass
	5320	4.44	/	4.44	11	Pass
802.11n40	5270	-1.00	/	-1.00	11	Pass
	5310	-1.13	/	-1.13	11	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5500	5.61	/	5.61	11	Pass
	5580	5.00	/	5.00	11	Pass
	5700	4.21	/	4.21	11	Pass
	5720	2.09	/	2.09	11	Pass
802.11n20	5500	5.34	/	5.34	11	Pass
	5580	4.55	/	4.55	11	Pass
	5700	3.89	/	3.89	11	Pass
	5720	2.09	/	2.09	11	Pass
802.11n40	5510	1.29	/	1.29	11	Pass
	5550	1.29	/	1.29	11	Pass
	5670	-0.15	/	-0.15	11	Pass
	5710	0.14	/	0.14	11	Pass

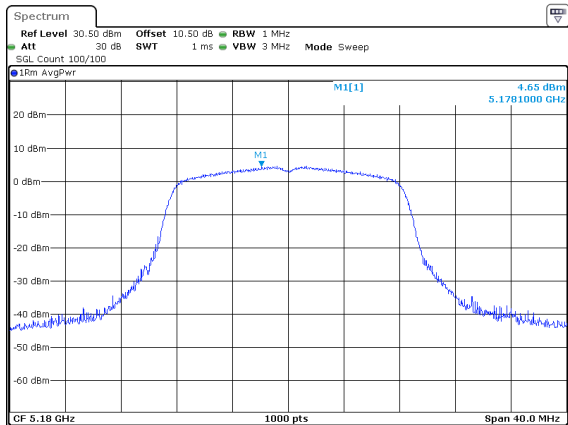
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	1.74	/	1.74	30	Pass
	5785	2.35	/	2.35	30	Pass
	5825	2.80	/	2.80	30	Pass
802.11n20	5745	1.47	/	1.47	30	Pass
	5785	2.02	/	2.02	30	Pass
	5825	2.51	/	2.51	30	Pass
802.11n40	5755	-1.22	/	-1.22	30	Pass
	5795	-0.80	/	-0.80	30	Pass

Result = Reading + Duty Cycle Factor

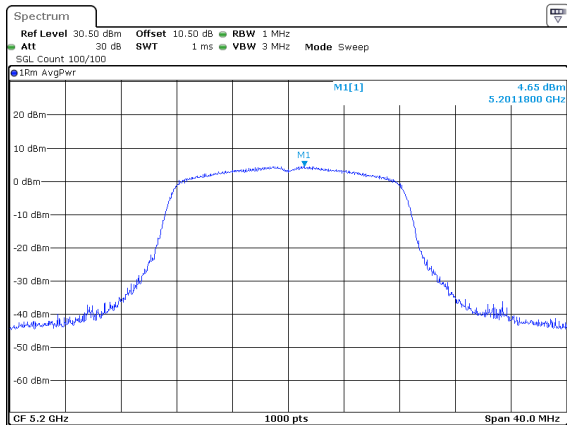
5150-5250MHz

802.11a_5180MHz



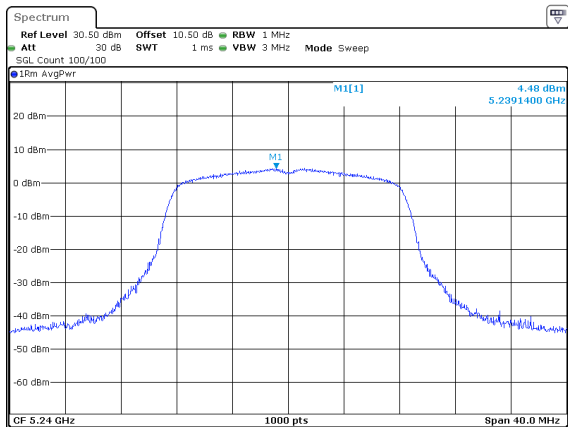
ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 20:58:31

802.11a_5200MHz



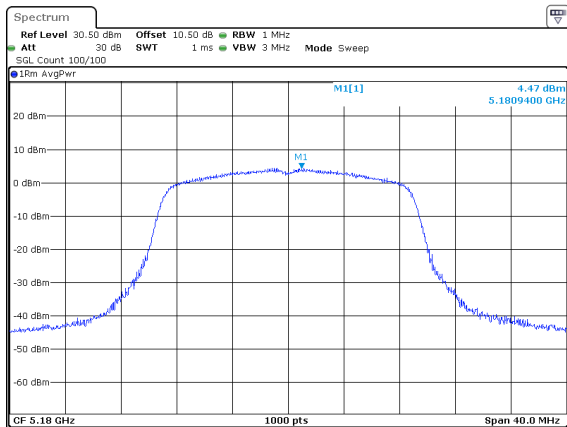
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Date: 16.FEB.2025 21:01:29

802.11a_5240MHz



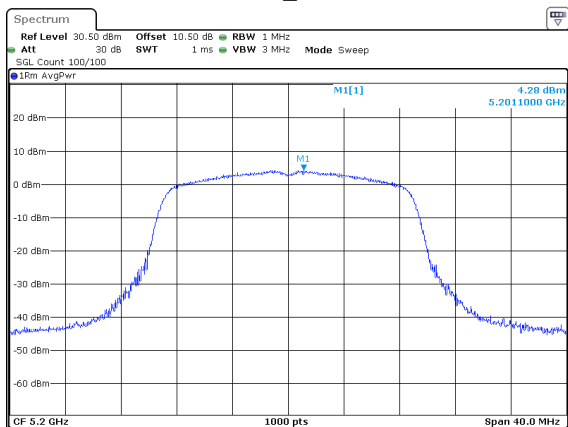
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Date: 16.FEB.2025 21:03:40

802.11n20_5180MHz



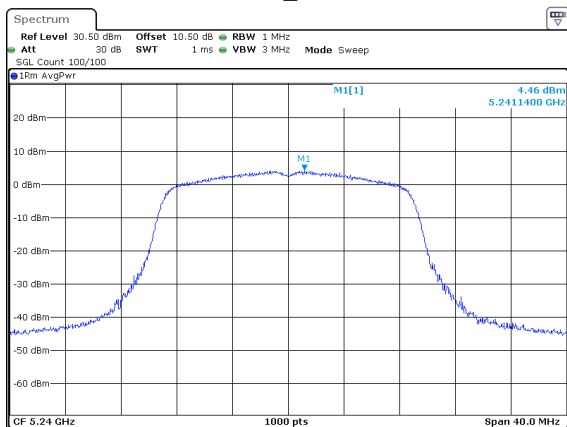
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802.11n20_5200MHz



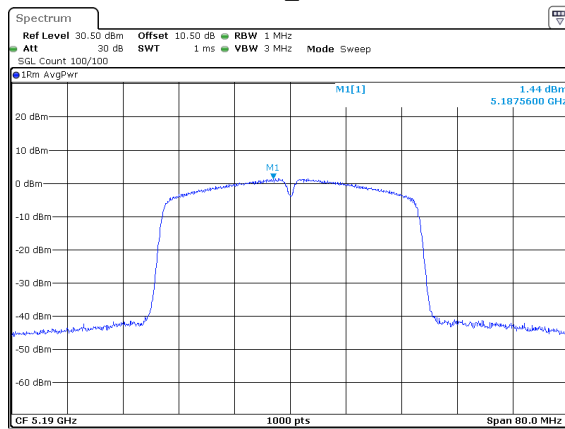
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802.11n20_5240MHz



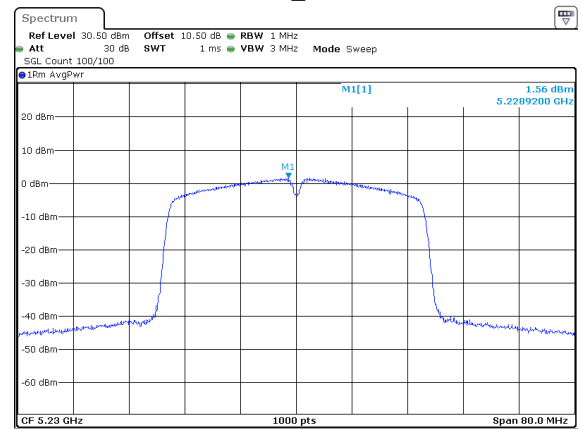
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Date: 16.FEB.2025 21:11:38

802.11n40_5190MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:13:33

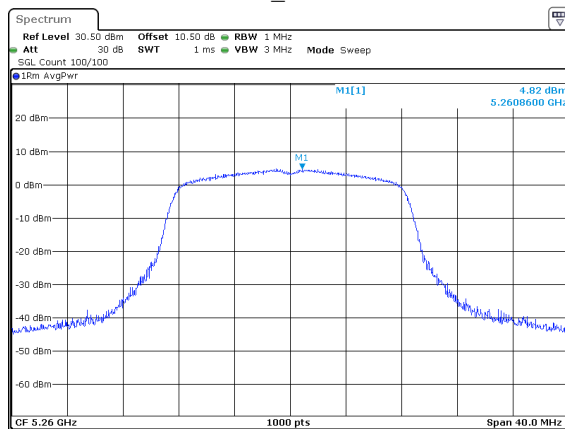
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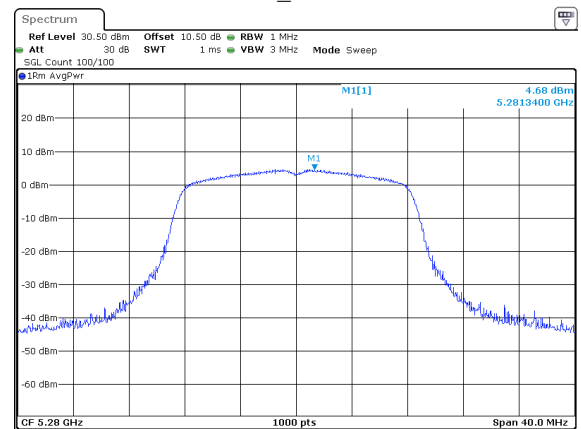
5250-5350MHz

802.11a_5260MHz



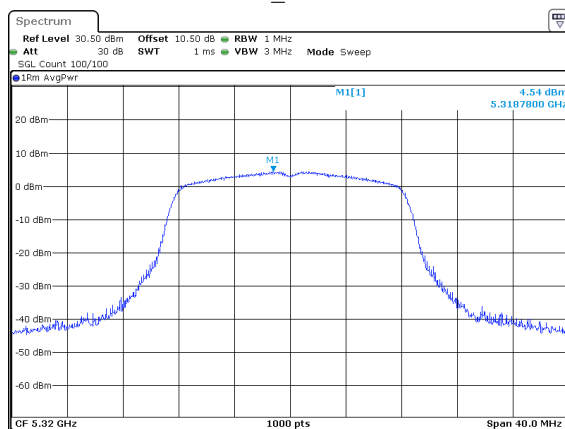
ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:59:32

802.11a_5280MHz



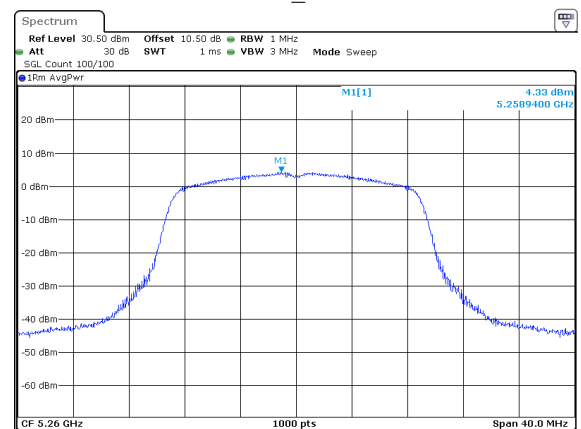
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Date: 16.FEB.2025 22:02:03

802.11a_5320MHz



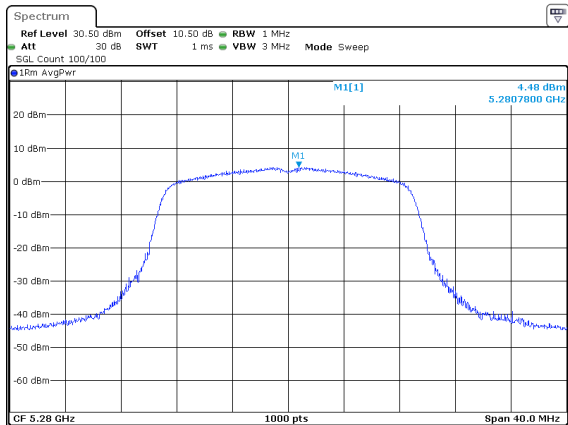
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Date: 16.FEB.2025 22:04:46

802.11n20_5260MHz



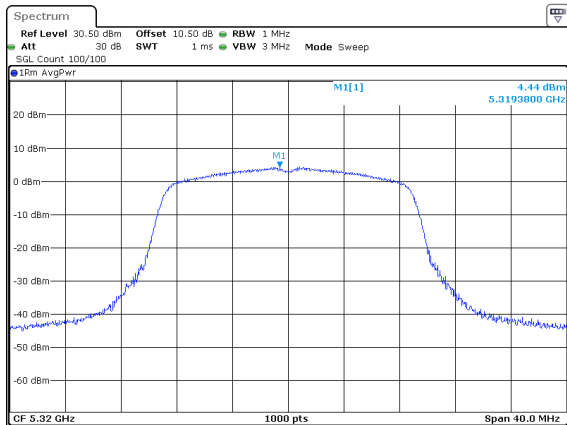
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802.11n20_5280MHz



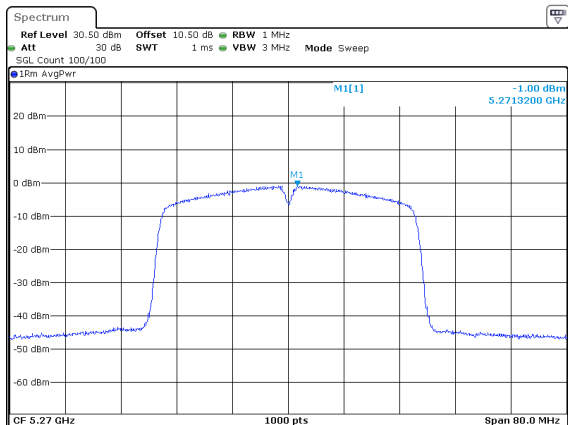
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802.11n20_5320MHz



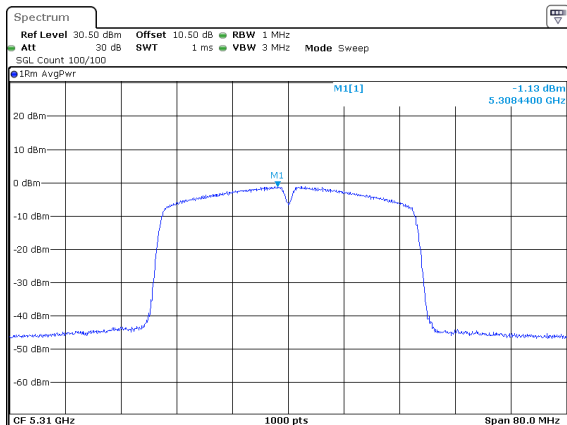
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Date: 16.FEB.2025 22:12:19

802.11n40_5270MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 24.FEB.2025 21:18:15

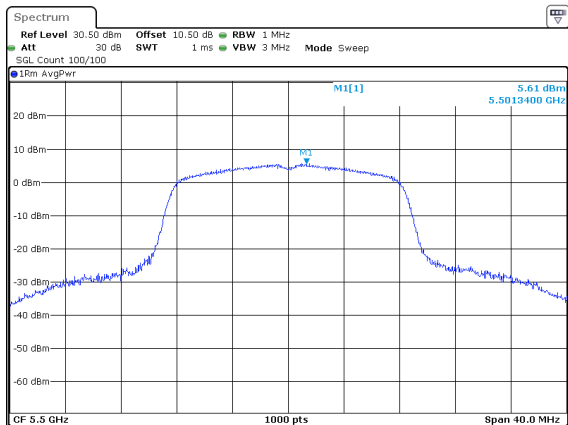
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Date: 24.FEB.2025 21:21:08

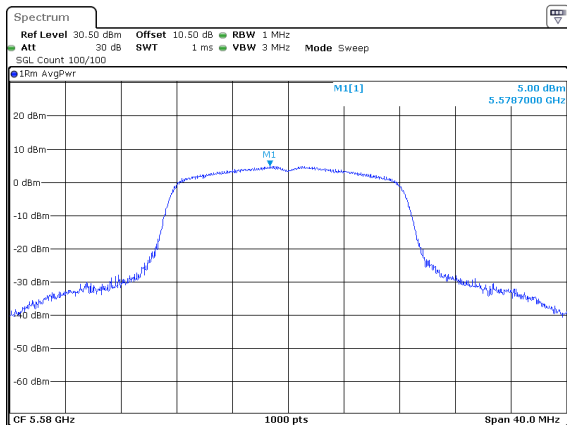
5470-5725MHz

802.11a_5500MHz



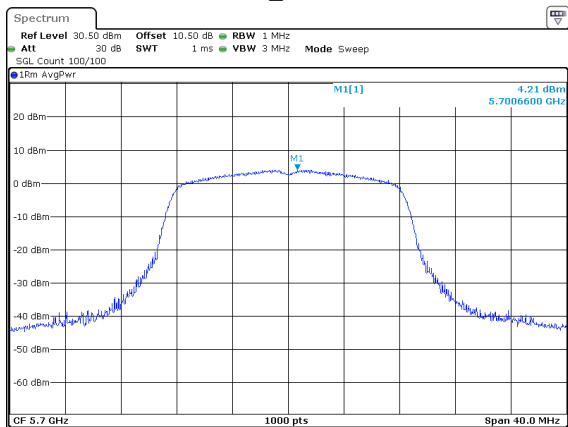
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802.11a_5580MHz



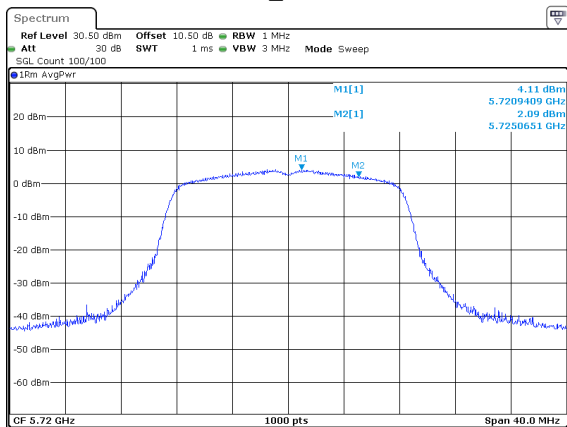
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802.11a_5700MHz



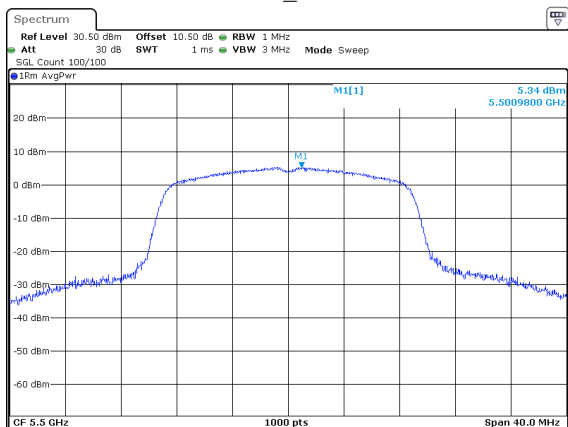
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Date: 24.FEB.2025 23:21:03

802.11a_5720MHz



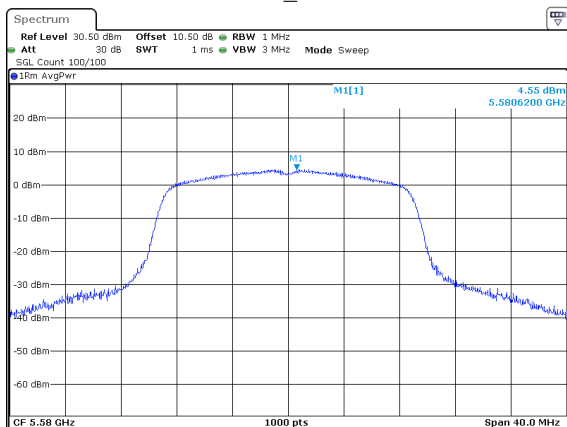
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Date: 24.FEB.2025 23:21:26

802.11n20_5500MHz



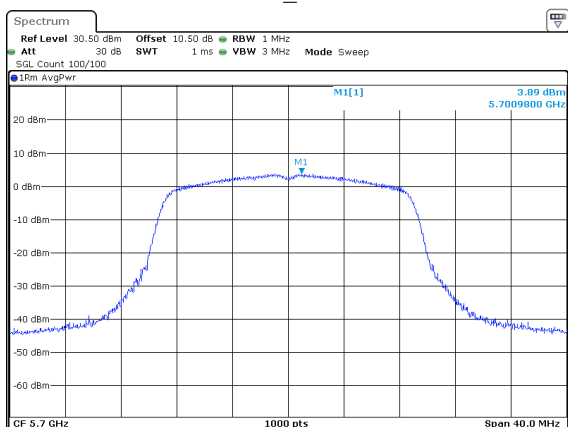
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802.11n20_5580MHz



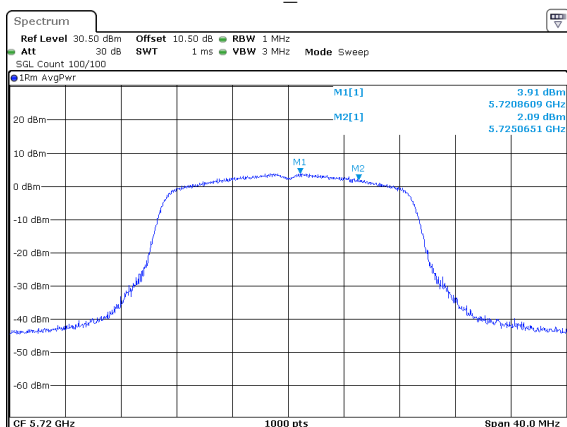
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Date: 24.FEB.2025 23:22:45

802.11n20_5700MHz



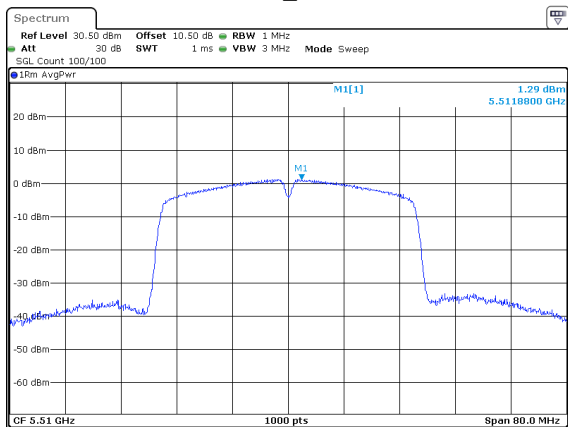
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Date: 24.FEB.2025 23:23:16

802.11n20_5720MHz



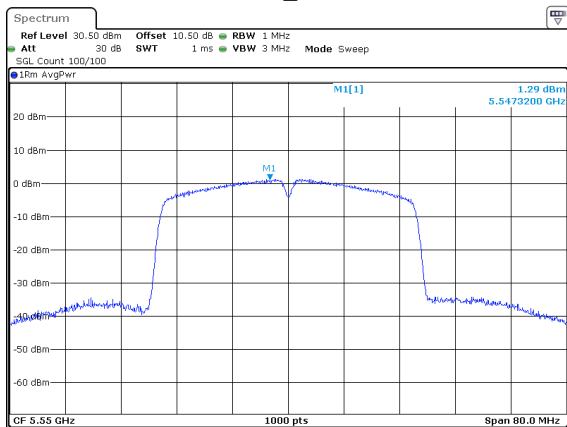
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Date: 24.FEB.2025 23:23:40

802.11n40_5510MHz



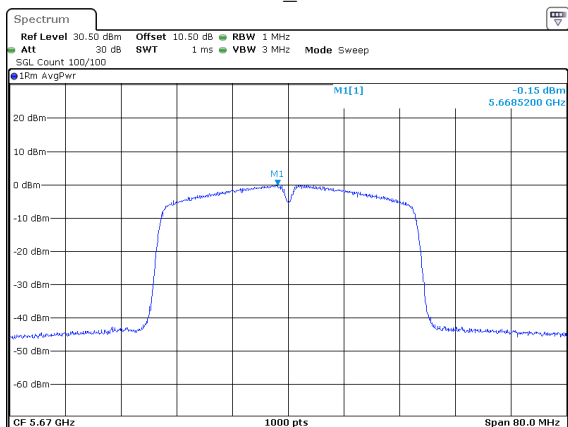
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Date: 24.FEB.2025 23:24:11

802.11n40_5550MHz



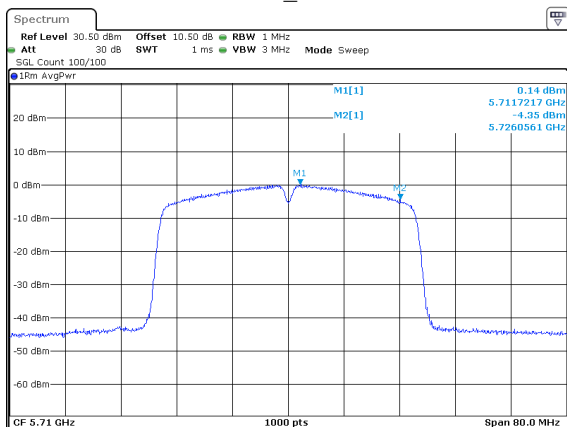
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Date: 24.FEB.2025 23:24:45

802.11n40_5670MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 24.FEB.2025 23:25:16

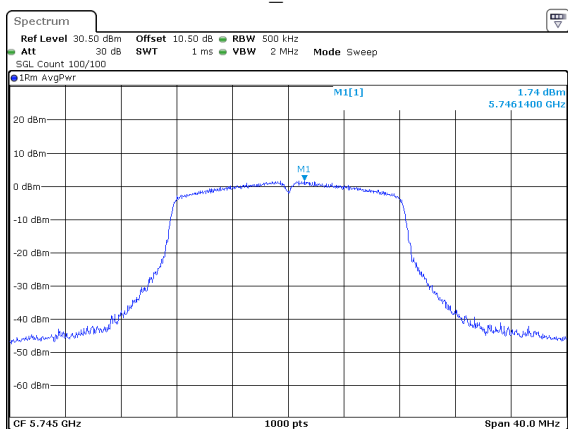
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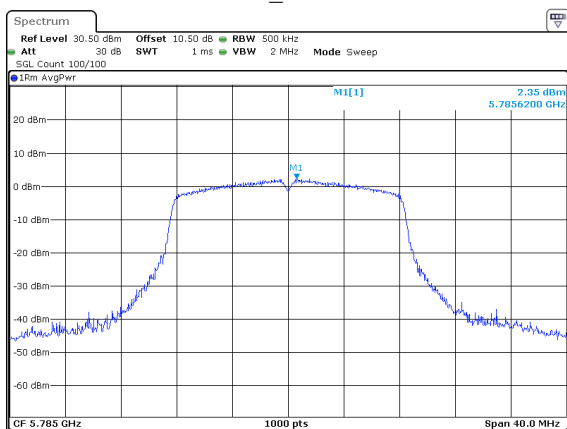
5725-5850MHz

802.11a_5745MHz



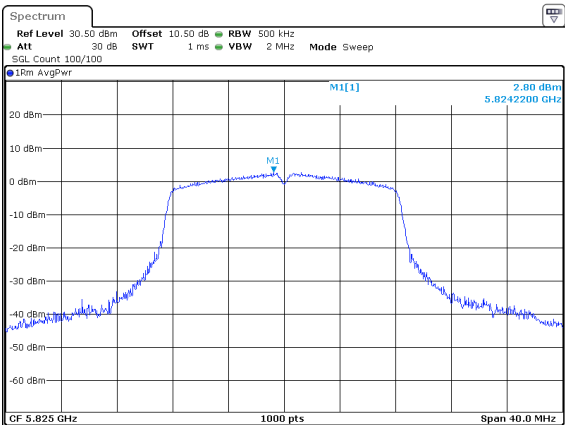
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802.11a_5785MHz



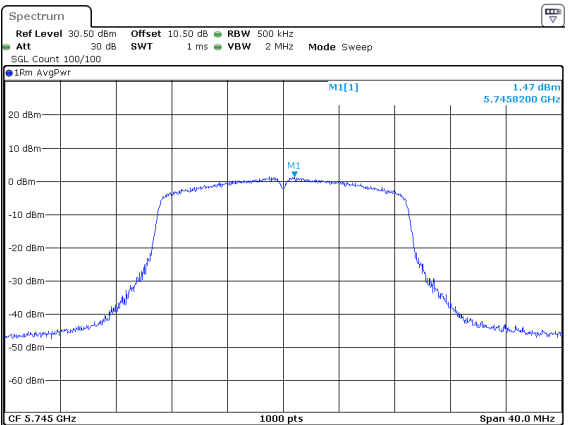
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802.11a_5825MHz



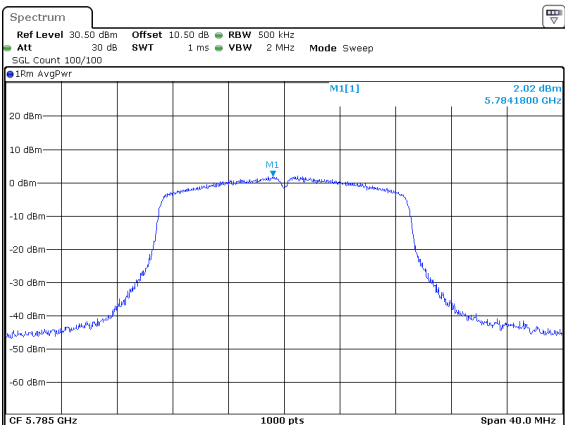
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802.11n20_5745MHz



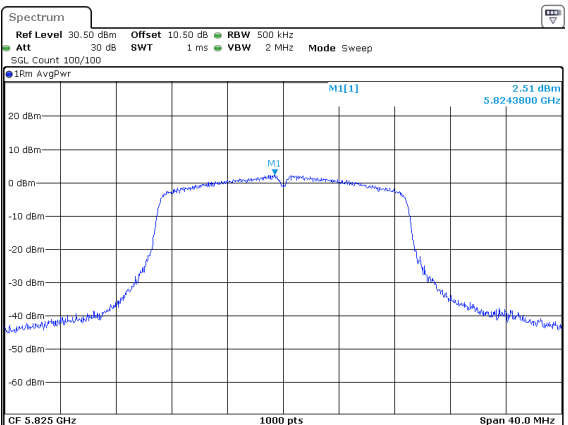
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Date: 16.FEB.2025 23:14:51

802.11n20_5785MHz



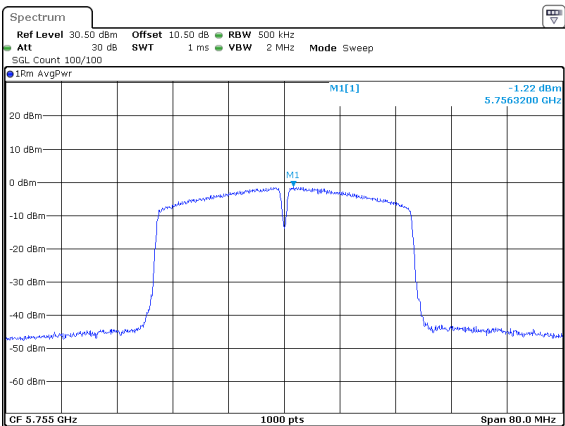
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Date: 16.FEB.2025 23:17:34

802.11n20_5825MHz



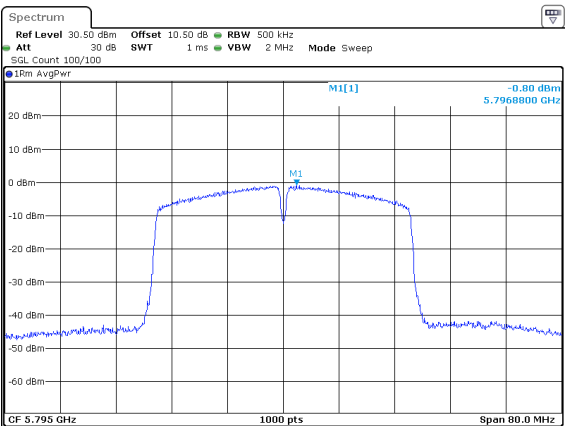
ProjectNo.:2401A25033E-RF Tester:Kungfumanter Liang
Date: 16.FEB.2025 23:19:40

802.11n40_5755MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumanter Liang
Date: 16.FEB.2025 23:21:14

802.11n40_5795MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumanter Liang
Date: 16.FEB.2025 23:22:56

Duty Cycle

Test Information:

Sample No.:	2WQQ-9	Test Date:	2025/02/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	23.8	Relative Humidity: (%)	47	ATM Pressure: (kPa)	101
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Test Data:**5150-5250MHz**

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	/	/	0.010
802.11n20	5200	100	100	100	/	/	0.010
802.11n40	5190	100	100	100	/	/	0.010

5250-5350MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5280	100	100	100	/	/	0.010
802.11n20	5280	100	100	100	/	/	0.010
802.11n40	5270	100	100	100	/	/	0.010

5470-5725MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5580	100	100	100	/	/	0.010
802.11n20	5580	100	100	100	/	/	0.010
802.11n40	5670	100	100	100	/	/	0.010

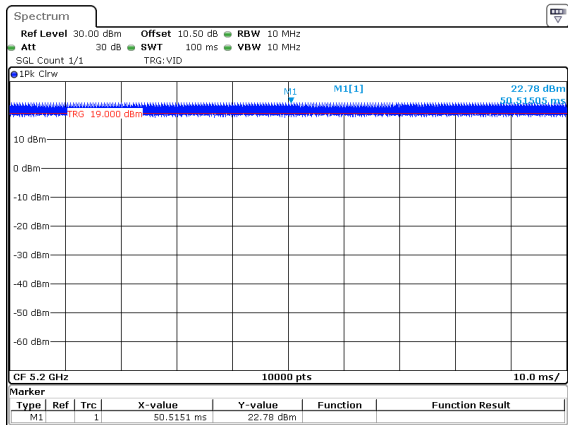
5725-5850MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5785	100	100	100	/	/	0.010
802.11n20	5785	100	100	100	/	/	0.010
802.11n40	5755	100	100	100	/	/	0.010

Duty Cycle = Ton/(Ton+Toff)*100%

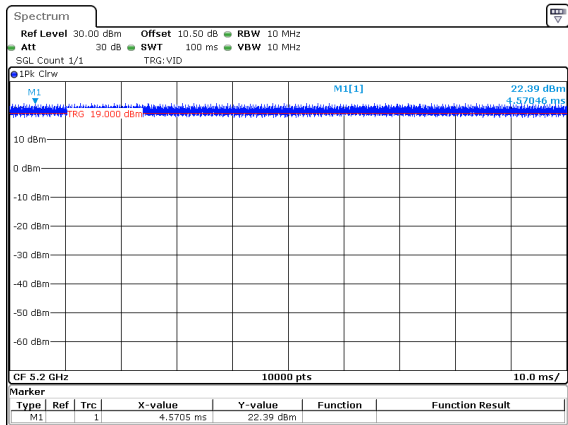
5150-5250MHz

802.11a_5200MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:24:36

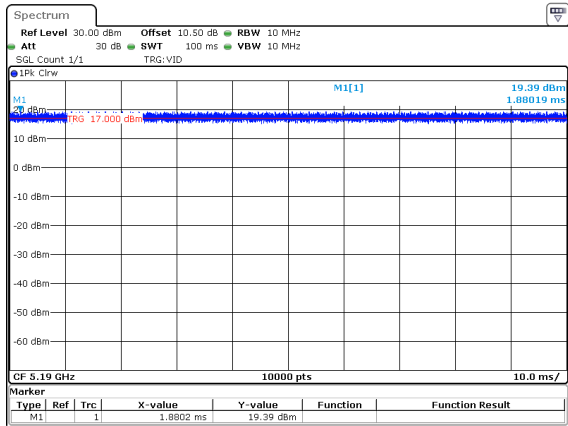
802.11n20_5200MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:25:16

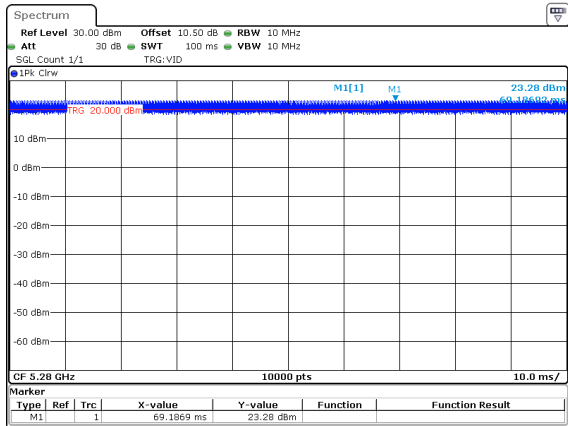
5250-5350MHz

802.11n40_5190MHz



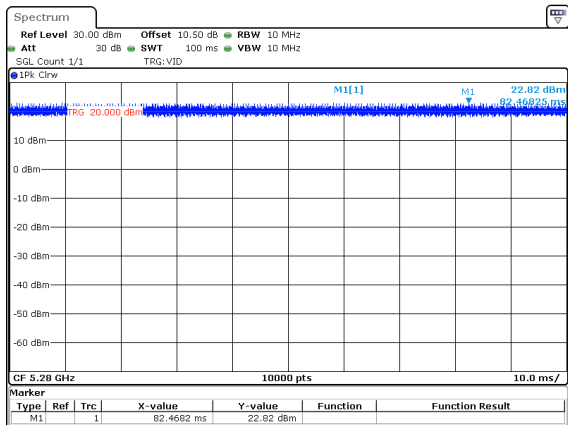
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Date: 16.FEB.2025 21:25:53

802.11a_5280MHz



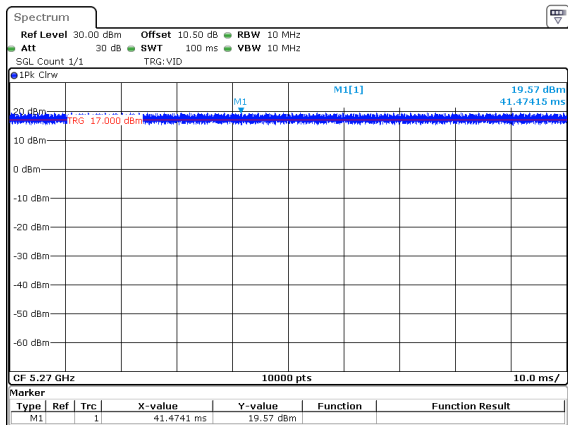
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Date: 16.FEB.2025 21:27:45

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ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:28:26

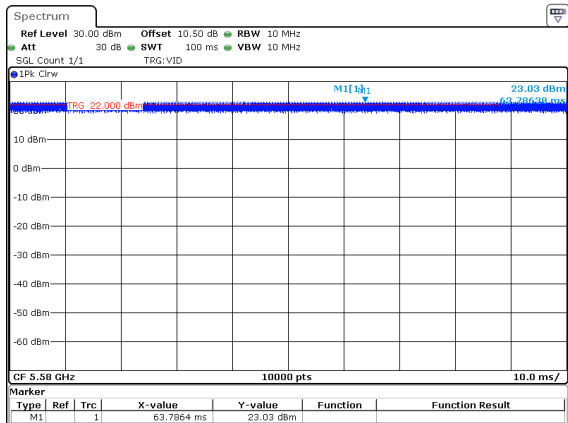
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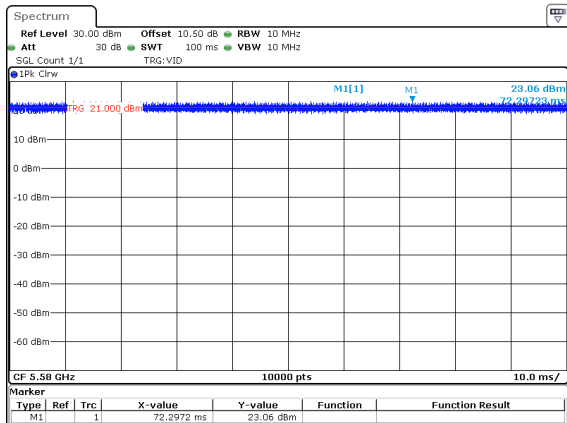
5470-5725MHz

802.11a_5580MHz



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Date: 16.FEB.2025 21:52:44

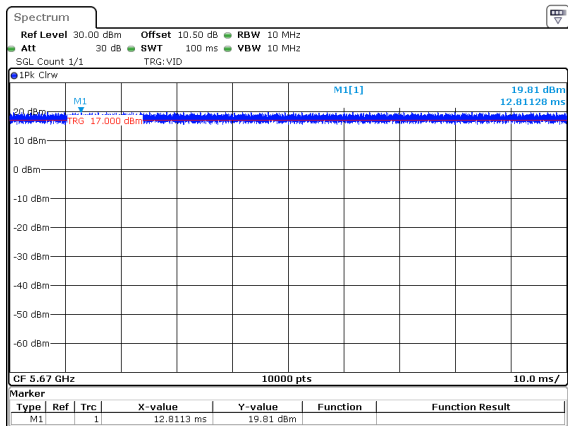
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Date: 16.FEB.2025 21:53:26

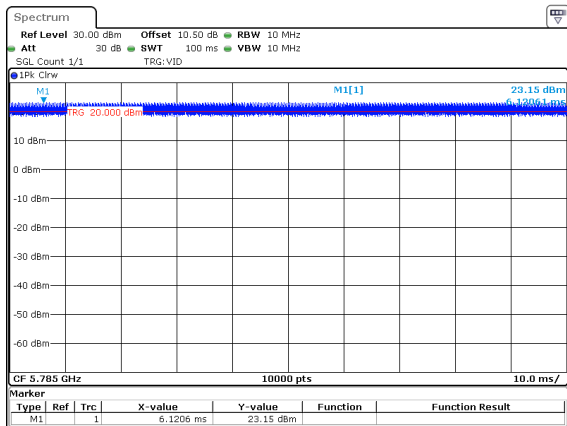
5725-5850MHz

802.11n40_5670MHz



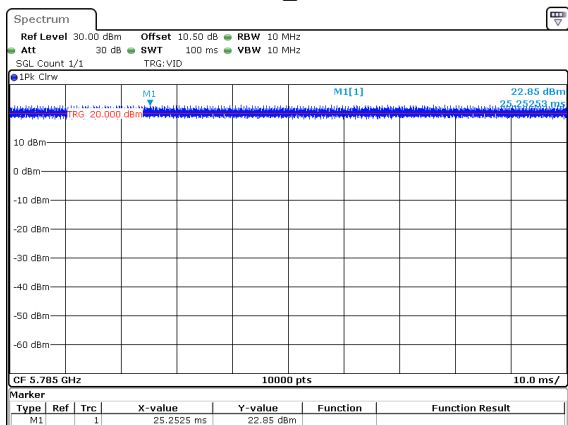
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Date: 16.FEB.2025 21:54:09

802.11a_5785MHz



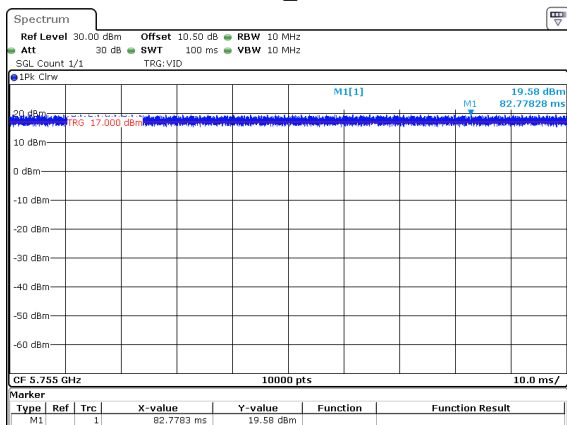
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Date: 16.FEB.2025 21:55:09

802.11n20_5785MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:55:52

802.11n40_5755MHz



ProjectNo.:2401A25033E-RF Tester:Kungfumaster Liang
Date: 16.FEB.2025 21:56:33

RF EXPOSURE EVALUATION

MPE-Based Exemption

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (mW)
			(dBi)	(dBd)	(dBm)	(mW)		
BT	2402-2480	10.0	2.72	0.57	10.57	11.40	0.2	768
BLE	2402-2480	8.0	2.72	0.57	8.57	7.19	0.2	768
2.4G Wi-Fi	2412-2462	21.5	4.54	2.39	23.89	244.91	0.2	768
5G Wi-Fi	5180-5240	15.0	4.19	2.04	17.04	50.58	0.2	768
	5260-5320	15.0	4.19	2.04	17.04	50.58	0.2	768
	5500-5720	16.0	4.19	2.04	18.04	63.68	0.2	768
	5745-5825	15.5	4.19	2.04	17.54	56.75	0.2	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
 2. The BT and Wi-Fi can transmit at same time, the 2.4G and 5G Wi-Fi cannot transmit at same time.
 3. 0dBd=2.15dBi

Simultaneous transmitting consideration (worst case):

The ratio= $ERP_{BT}/limit + ERP_{2.4G\ Wi-Fi}/limit = 11.40/768 + 244.91/768 = 0.33 < 1.0$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401A25033E-RF External photo and 2401A25033E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401A25033E-RFB Test Setup photo.

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