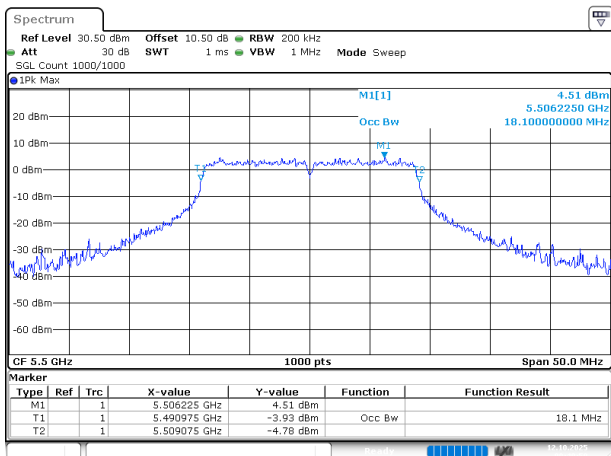
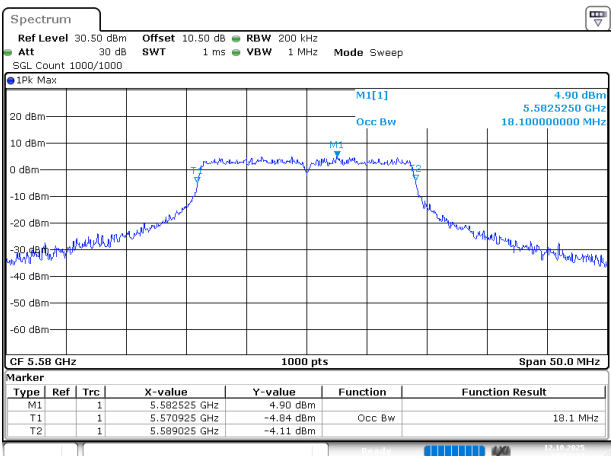


802.11ac20_5500MHz



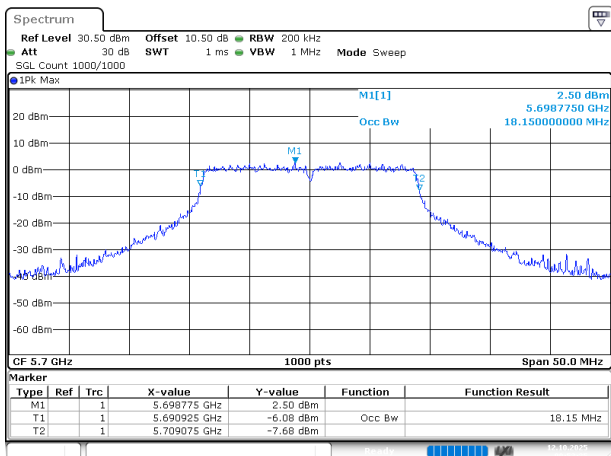
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802.11ac20_5580MHz



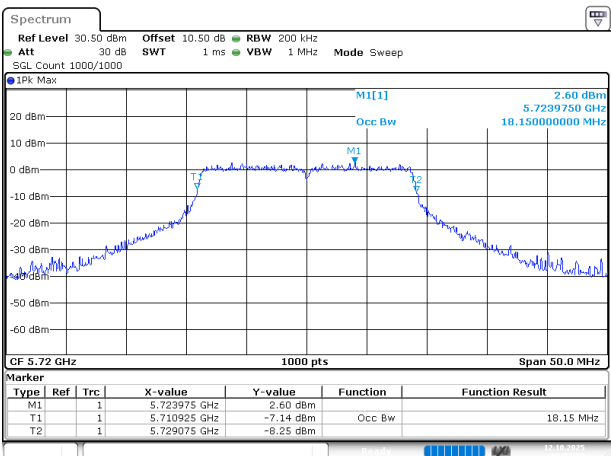
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802.11ac20_5700MHz



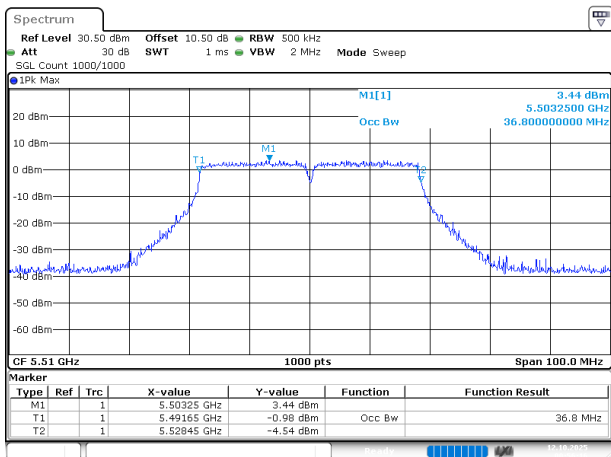
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802.11ac20_5720MHz



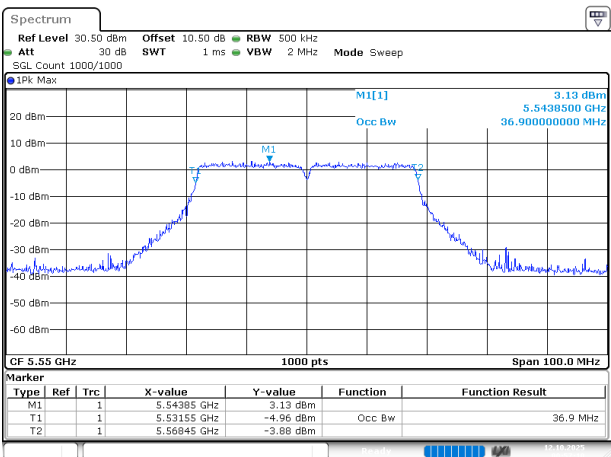
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802.11ac40_5510MHz



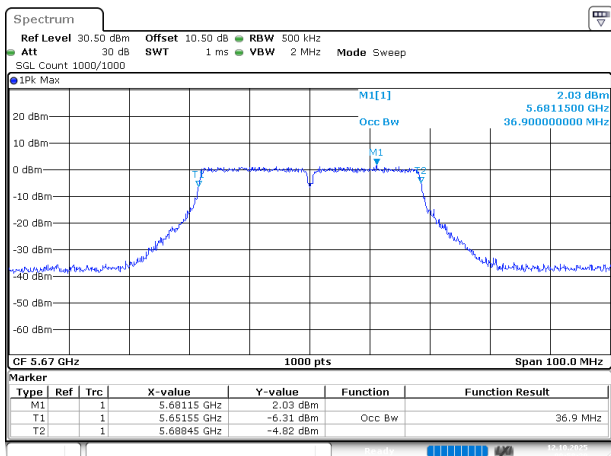
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802.11ac40_5550MHz



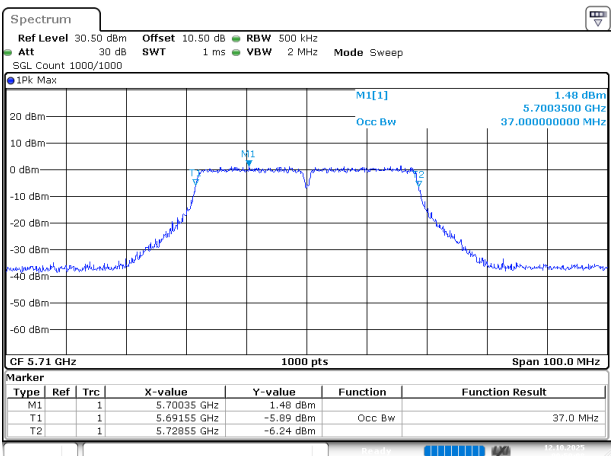
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802.11ac40_5670MHz



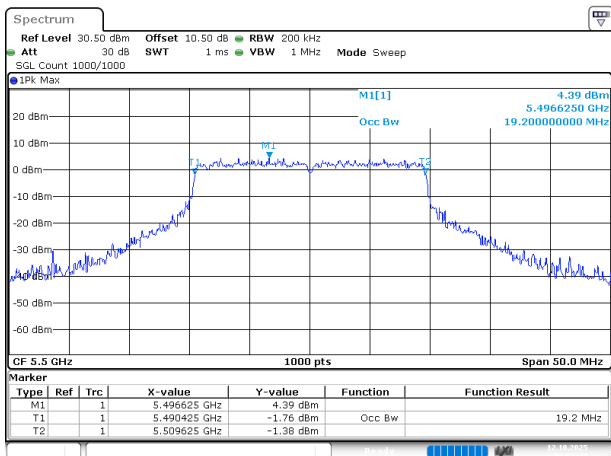
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802.11ac40_5710MHz



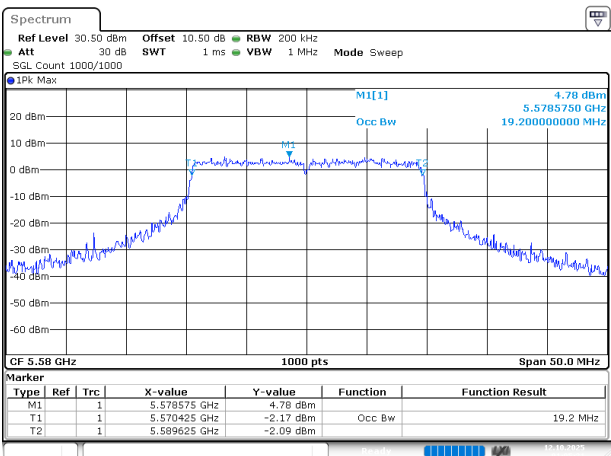
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802.11ax20_5500MHz_RU_FULL



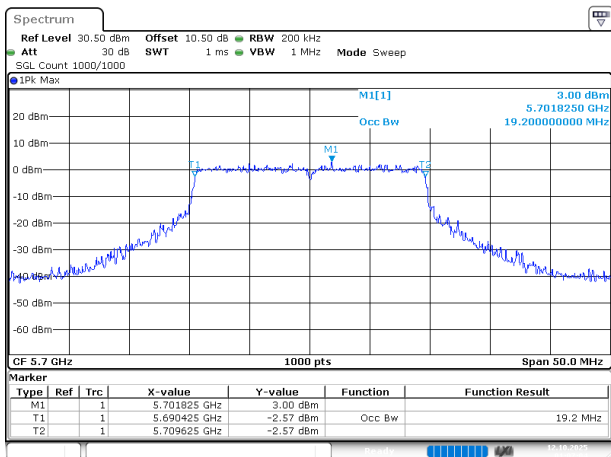
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802.11ax20_5580MHz_RU_FULL



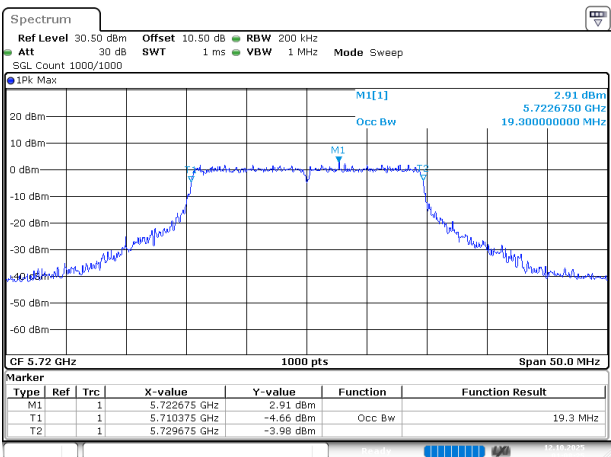
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802.11ax20_5700MHz_RU_FULL



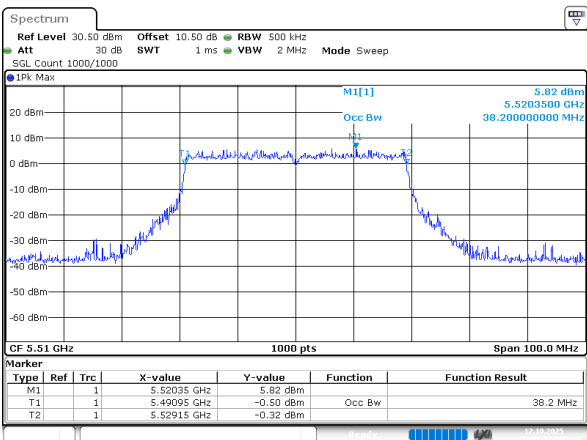
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802.11ax20_5720MHz_RU_FULL



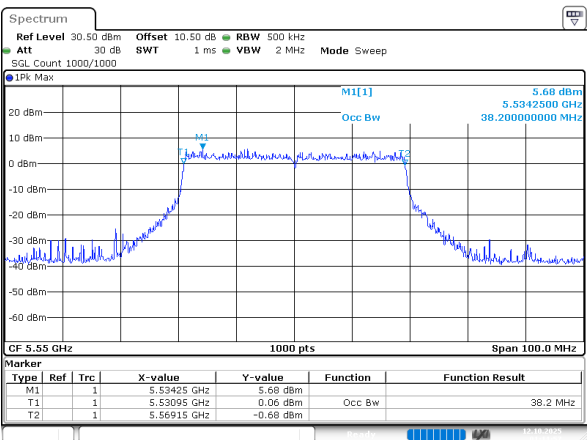
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802.11ax40_5510MHz_RU_FULL



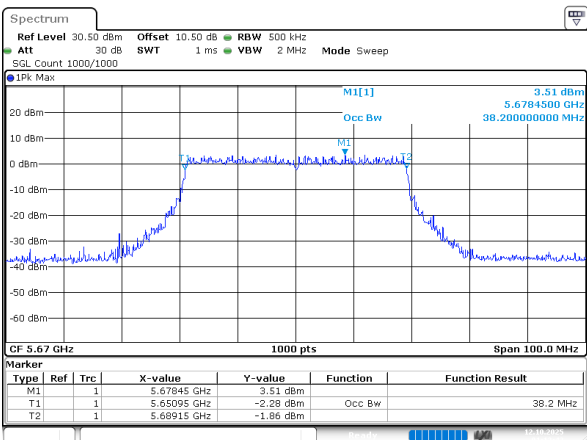
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802.11ax40_5550MHz_RU_FULL



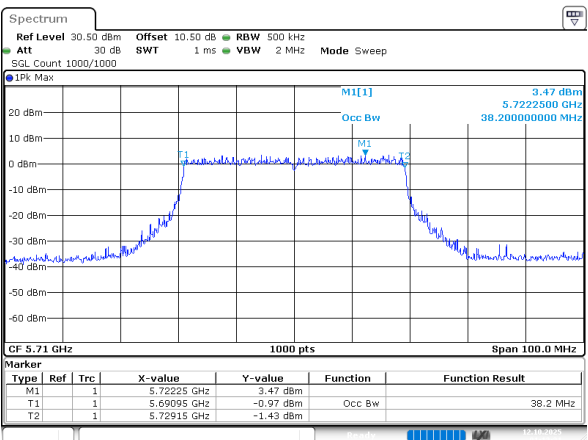
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802.11ax40_5670MHz_RU_FULL



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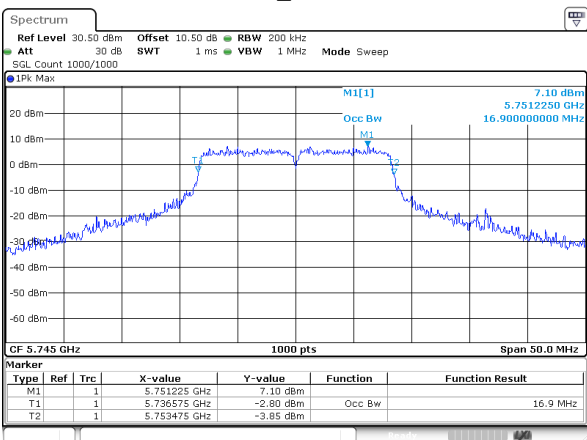
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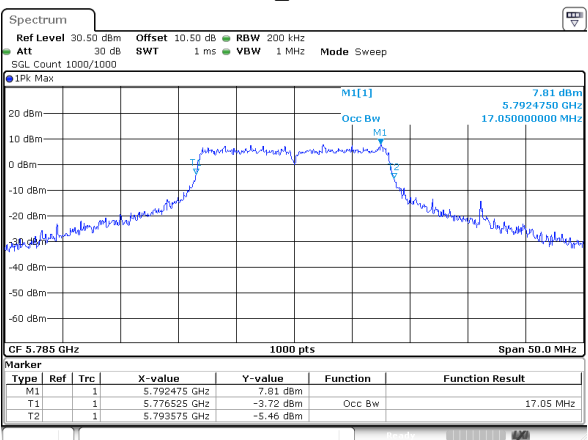
5725-5850MHz

802.11a_5745MHz



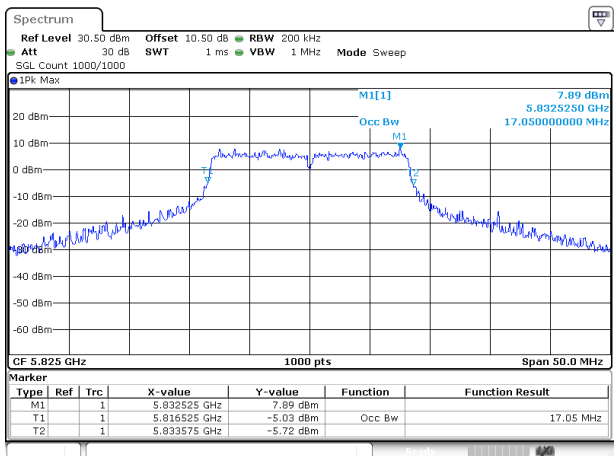
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802.11a_5785MHz



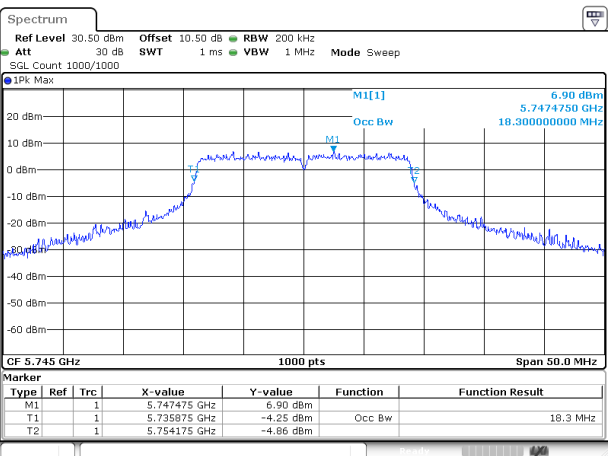
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802.11a_5825MHz



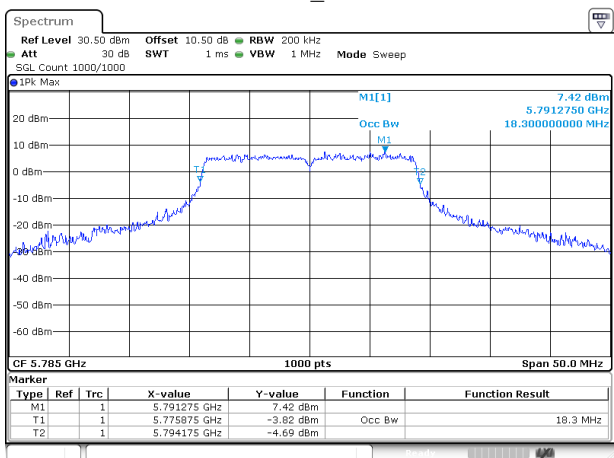
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802.11ac20_5745MHz



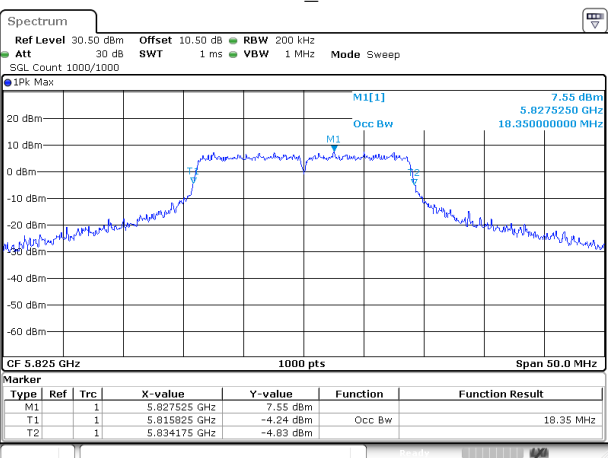
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802.11ac20_5785MHz



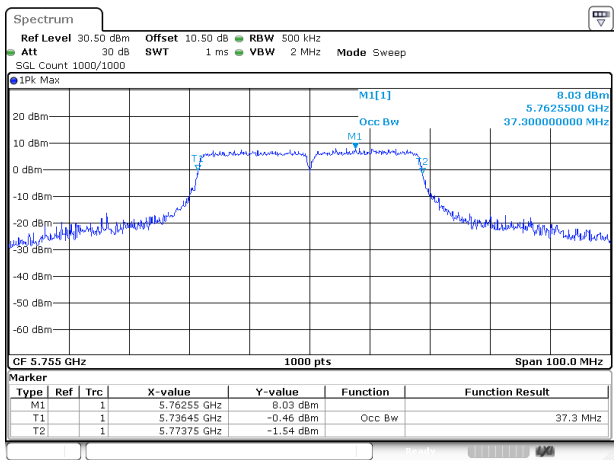
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802.11ac20_5825MHz



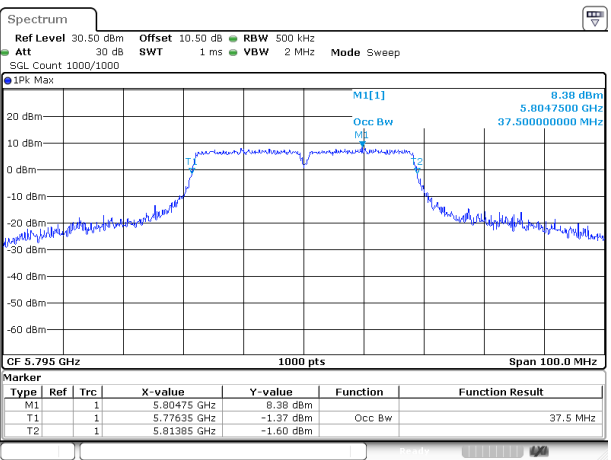
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802.11ac40_5755MHz



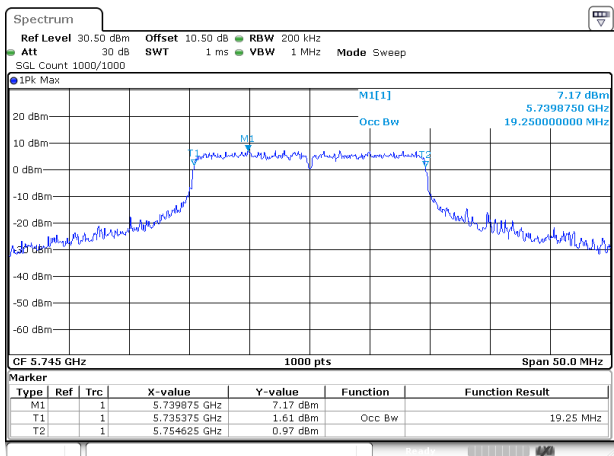
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802.11ac40_5795MHz



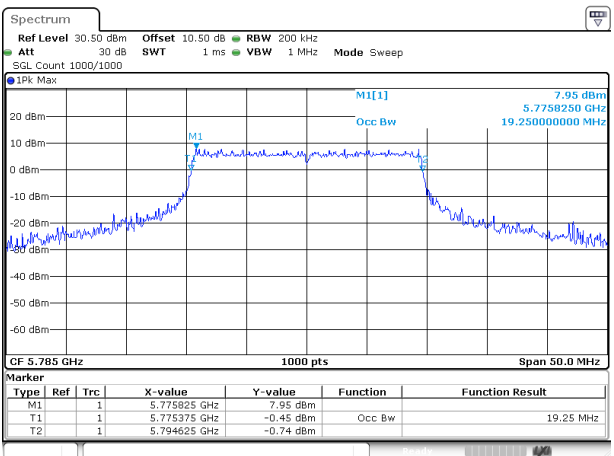
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802.11ax20_5745MHz_RU_FULL



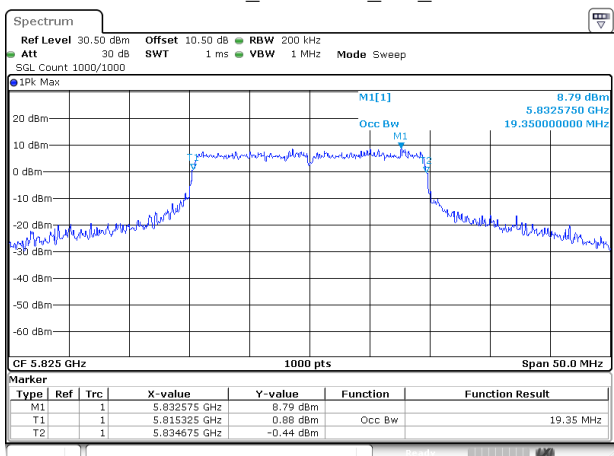
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802.11ax20_5785MHz_RU_FULL



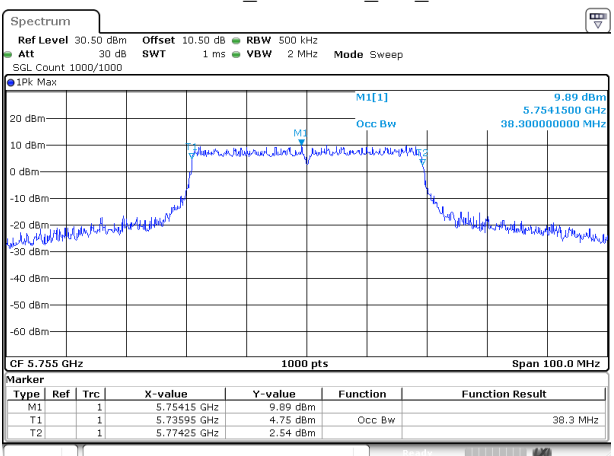
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802.11ax20_5825MHz_RU_FULL



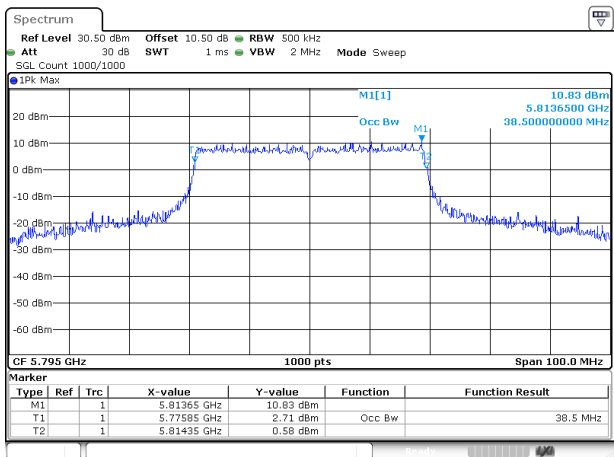
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802.11ax40_5755MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaaster Liang
Date: 9.OCT.2025 22:49:50

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaaster Liang
Date: 9.OCT.2025 22:51:21

Maximum Conducted Output Power**Test Information:**

Sample No.:	3A1I-1	Test Date:	2025/10/05~2025/10/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-25.6	Relative Humidity: (%)	50-54	ATM Pressure: (kPa)	101.1-101.4
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Average Output Power(dBm)	FCC Limit (dBm)	EIRP (dBm)	EIRP Limit_IC (dBm)	Verdict
802.11a	5180	15.19	23.98	18.76	22.24	Pass
	5200	15.36	23.98	18.93	22.25	Pass
	5240	15.49	23.98	19.06	22.25	Pass
802.11ac20	5180	15.50	23.98	19.07	22.54	Pass
	5200	15.86	23.98	19.43	22.58	Pass
	5240	15.97	23.98	19.54	22.59	Pass
802.11ac40	5190	14.00	23.98	17.57	23.01	Pass
	5230	14.73	23.98	18.30	23.01	Pass
802.11ax20_RU_FULL	5180	15.58	23.98	19.15	22.82	Pass
	5200	15.32	23.98	18.89	22.83	Pass
	5240	15.41	23.98	18.98	22.82	Pass
802.11ax40_RU_FULL	5190	15.05	23.98	18.62	23.01	Pass
	5230	15.57	23.98	19.14	23.01	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)		EIRP (dBm)		Verdict
			FCC	IC	Result	Limit_IC	
802.11a	5260	18.06	23.98	23.36	21.33	29.36	Pass
	5280	18.62	23.98	23.30	21.89	29.30	Pass
	5320	17.81	23.98	23.27	21.08	29.27	Pass
802.11ac20	5260	16.74	23.98	23.62	20.01	29.62	Pass
	5280	16.59	23.98	23.62	19.86	29.62	Pass
	5320	16.93	23.98	23.62	20.20	29.62	Pass
802.11ac40	5270	14.79	23.98	23.98	18.06	29.98	Pass
	5310	14.84	23.98	23.98	18.11	29.98	Pass
802.11ax20 _RU_FULL	5260	17.10	23.98	23.86	20.37	29.86	Pass
	5280	16.71	23.98	23.84	19.98	29.84	Pass
	5320	16.43	23.98	23.83	19.70	29.83	Pass
802.11ax40 _RU_FULL	5270	14.59	23.98	23.98	17.86	29.98	Pass
	5310	15.18	23.98	23.98	18.45	29.98	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)		EIRP (dBm)		Verdict
			FCC	IC	Result	Limit_IC	
802.11a	5500	16.36	23.98	23.28	19.25	29.28	Pass
	5580	15.92	23.98	23.28	18.81	29.28	Pass
	5700	13.47	23.98	23.28	16.36	29.28	Pass
	5720	12.29	23.98	23.27	15.18	29.27	Pass
802.11ac20	5500	15.20	23.98	23.58	18.09	29.58	Pass
	5580	15.46	23.98	23.58	18.35	29.58	Pass
	5700	13.10	23.98	23.59	15.99	29.59	Pass
	5720	12.16	23.98	23.59	15.05	29.59	Pass
802.11ac40	5510	13.50	23.98	23.98	16.39	29.98	Pass
	5550	12.96	23.98	23.98	15.85	29.98	Pass
	5670	11.51	23.98	23.98	14.40	29.98	Pass
	5710	10.68	23.98	23.98	13.57	29.98	Pass
802.11ax20 _RU_FULL	5500	14.62	23.98	23.83	17.51	29.83	Pass
	5580	14.81	23.98	23.83	17.70	29.83	Pass
	5700	12.44	23.98	23.83	15.33	29.83	Pass
	5720	11.09	23.98	23.86	13.98	29.86	Pass
802.11ax40 _RU_FULL	5510	13.63	23.98	23.98	16.52	29.98	Pass
	5550	13.17	23.98	23.98	16.06	29.98	Pass
	5670	11.41	23.98	23.98	14.30	29.98	Pass
	5710	10.67	23.98	23.98	13.56	29.98	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	17.75	30	Pass
	5785	18.20	30	Pass
	5825	18.27	30	Pass
802.11ac20	5745	17.71	30	Pass
	5785	17.85	30	Pass
	5825	18.62	30	Pass
802.11ac40	5755	18.15	30	Pass
	5795	18.20	30	Pass
802.11ax20_RU_FULL	5745	17.68	30	Pass
	5785	18.14	30	Pass
	5825	18.39	30	Pass
802.11ax40_RU_FULL	5755	17.73	30	Pass
	5795	18.11	30	Pass

Power Spectral Density**Test Information:**

Sample No.:	3A1I-1	Test Date:	2025/10/05~2025/10/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-25.6	Relative Humidity: (%)	50-54	ATM Pressure: (kPa)	101.1-101.4
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	FCC Limit (dBm/MHz)	EIRP PSD		Verdict
						Result	Limit_IC	
802.11a	5180	-3.76	9.17	5.41	11	8.98	10	Pass
	5200	-3.99	9.17	5.18	11	8.75	10	Pass
	5240	-3.56	9.17	5.61	11	9.18	10	Pass
802.11ac20	5180	0.35	4.74	5.09	11	8.66	10	Pass
	5200	-0.12	4.74	4.62	11	8.19	10	Pass
	5240	0.13	4.74	4.87	11	8.44	10	Pass
802.11ac40	5190	-4.18	4.84	0.66	11	4.23	10	Pass
	5230	-2.95	4.84	1.89	11	5.46	10	Pass
802.11ax20_RU_FULL	5180	-0.36	5.56	5.20	11	8.77	10	Pass
	5200	-0.72	5.56	4.84	11	8.41	10	Pass
	5240	-0.28	5.56	5.28	11	8.85	10	Pass
802.11ax40_RU_FULL	5190	-4.56	5.56	1.00	11	4.57	10	Pass
	5230	-3.73	5.56	1.83	11	5.40	10	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5260	-1.96	9.17	7.21	11	Pass
	5280	-1.48	9.17	7.69	11	Pass
	5320	-1.92	9.17	7.25	11	Pass
802.11ac20	5260	1.25	4.74	5.99	11	Pass
	5280	1.62	4.74	6.36	11	Pass
	5320	1.93	4.74	6.67	11	Pass
802.11ac40	5270	-3.25	4.84	1.59	11	Pass
	5310	-3.69	4.84	1.15	11	Pass
802.11ax20_RU_FULL	5260	0.59	5.56	6.15	11	Pass
	5280	0.14	5.56	5.70	11	Pass
	5320	0.95	5.56	6.51	11	Pass
802.11ax40_RU_FULL	5270	-4.45	5.56	1.11	11	Pass
	5310	-4.43	5.56	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	-4.11	9.17	5.06	11	Pass
	5580	-3.90	9.17	5.27	11	Pass
	5700	-5.81	9.17	3.36	11	Pass
	5720	-5.00	9.17	4.17	11	Pass
802.11ac20	5500	0.02	4.74	4.76	11	Pass
	5580	-0.10	4.74	4.64	11	Pass
	5700	-2.63	4.74	2.11	11	Pass
	5720	-2.43	4.74	2.31	11	Pass
802.11ac40	5510	-5.52	4.84	-0.68	11	Pass
	5550	-6.06	4.84	-1.22	11	Pass
	5670	-7.63	4.84	-2.79	11	Pass
	5710	-7.78	4.84	-2.94	11	Pass
802.11ax20_RU_FULL	5500	-1.71	5.56	3.85	11	Pass
	5580	-1.15	5.56	4.41	11	Pass
	5700	-3.99	5.56	1.57	11	Pass
	5720	-4.30	5.56	1.26	11	Pass
802.11ax40_RU_FULL	5510	-6.03	5.56	-0.47	11	Pass
	5550	-6.46	5.56	-0.90	11	Pass
	5670	-7.19	5.56	-1.63	11	Pass
	5710	-7.53	5.56	-1.97	11	Pass

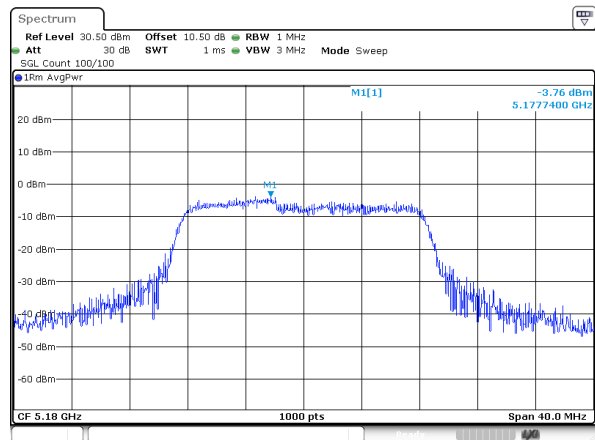
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11ac20	5745	-4.25	9.17	4.92	30	Pass
	5785	-4.40	9.17	4.77	30	Pass
	5825	-3.23	9.17	5.94	30	Pass
802.11ac20	5745	-1.41	4.74	3.33	30	Pass
	5785	-0.78	4.74	3.96	30	Pass
	5825	-0.63	4.74	4.11	30	Pass
802.11ac40	5755	-3.70	4.84	1.14	30	Pass
	5795	-3.58	4.84	1.26	30	Pass
802.11ax20_RU_FULL	5745	-2.19	5.56	3.37	30	Pass
	5785	-1.04	5.56	4.52	30	Pass
	5825	-0.89	5.56	4.67	30	Pass
802.11ax40_RU_FULL	5755	-4.87	5.56	0.69	30	Pass
	5795	-4.27	5.56	1.29	30	Pass

Result = Reading + Duty Cycle Factor

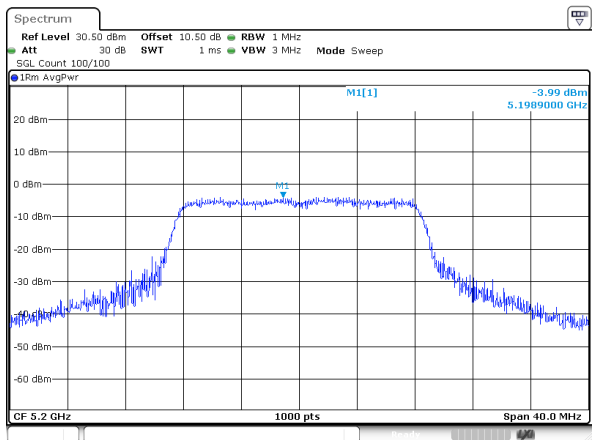
5150-5250MHz

802.11a_5180MHz



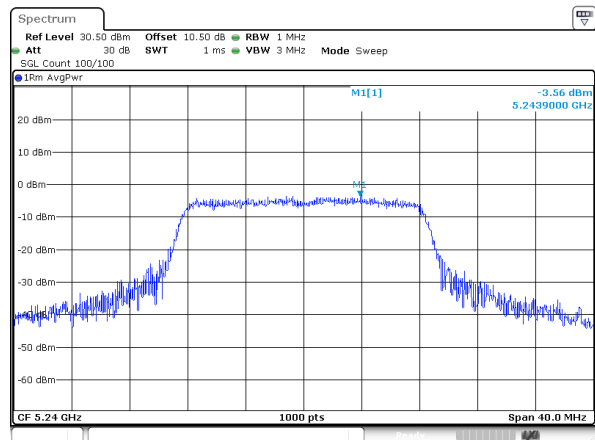
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Date: 5.OCT.2025 19:44:11

802.11a_5200MHz



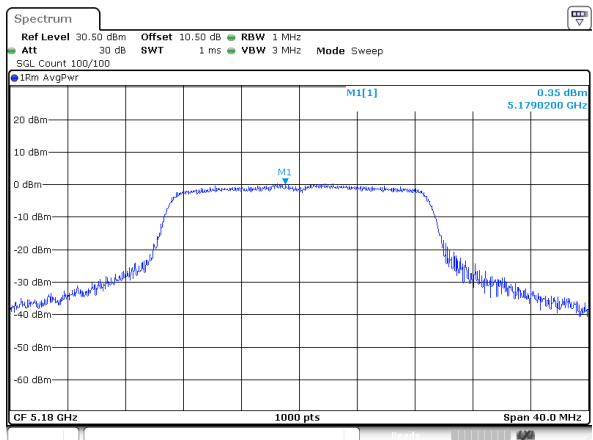
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Date: 5.OCT.2025 19:47:02

802.11a_5240MHz



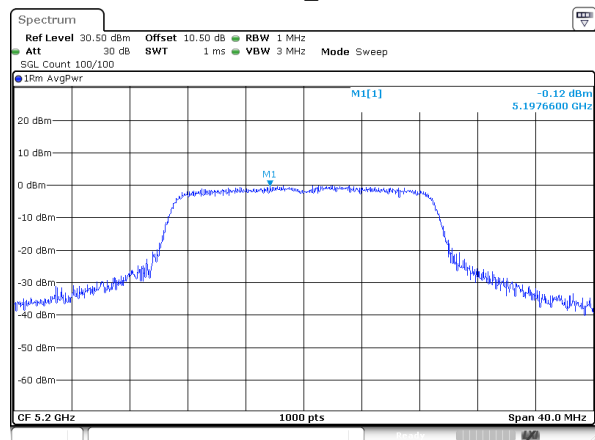
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Date: 5.OCT.2025 19:56:58

802.11ac20_5180MHz



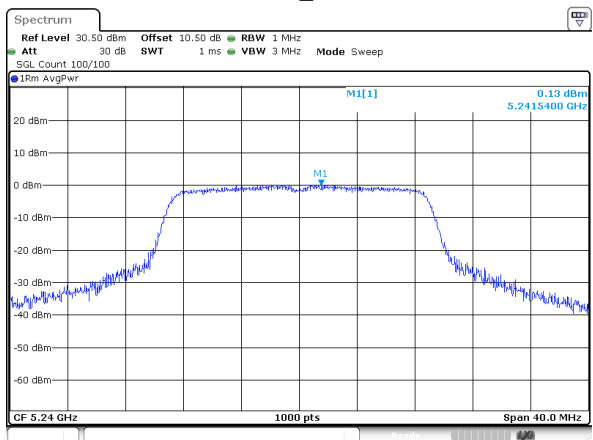
ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 20:04:37

802.11ac20_5200MHz



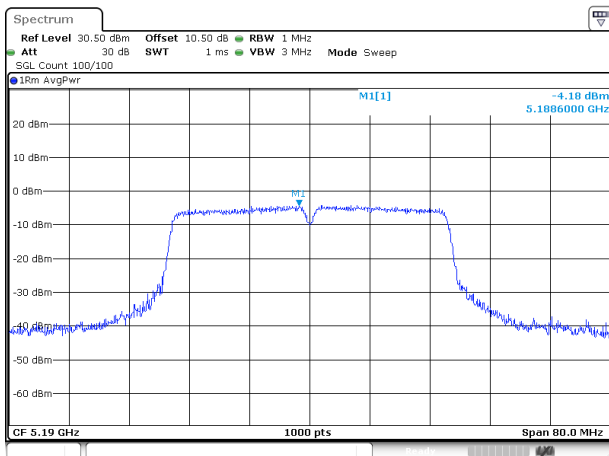
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Date: 5.OCT.2025 20:06:40

802.11ac20_5240MHz



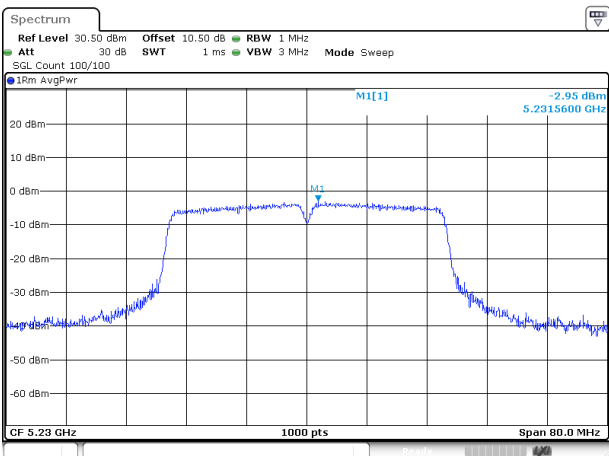
ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 20:09:37

802.11ac40_5190MHz



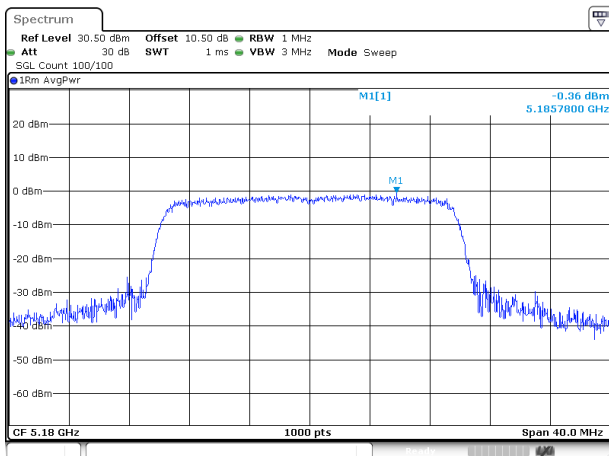
ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 5.OCT.2025 20:14:48

802.11ac40_5230MHz



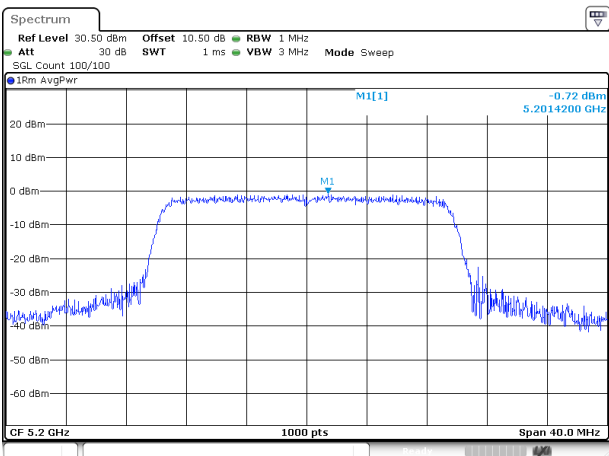
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Date: 5.OCT.2025 20:16:48

802.11ax20_5180MHz_RU_FULL



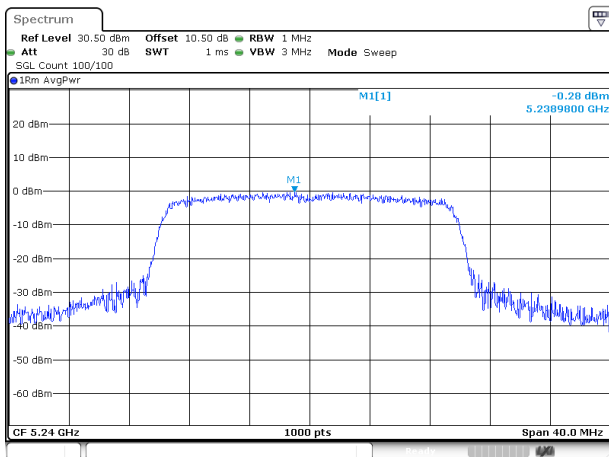
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Date: 5.OCT.2025 20:24:06

802.11ax20_5200MHz_RU_FULL



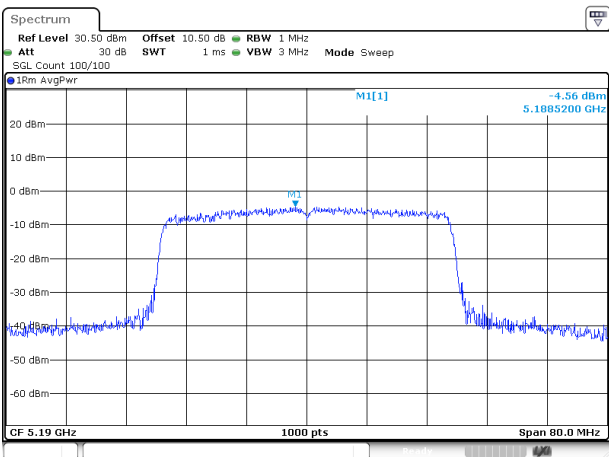
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Date: 5.OCT.2025 20:27:01

802.11ax20_5240MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 5.OCT.2025 20:29:34

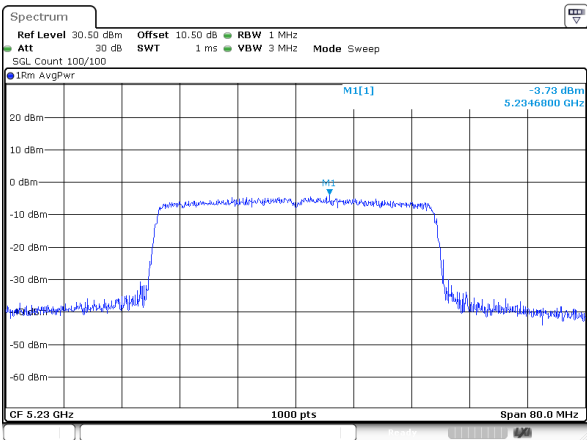
802.11ax40_5190MHz_RU_FULL



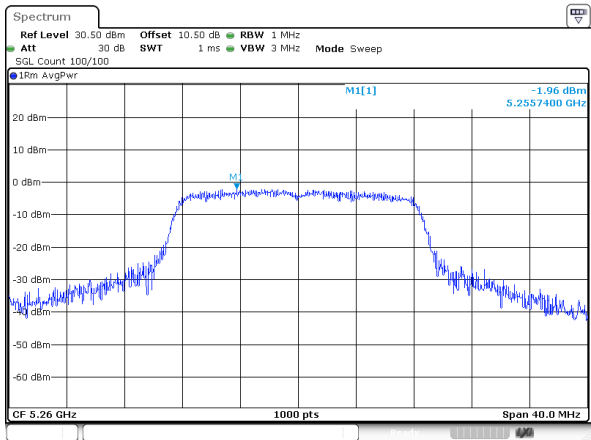
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Date: 5.OCT.2025 20:31:48

5250-5350MHz

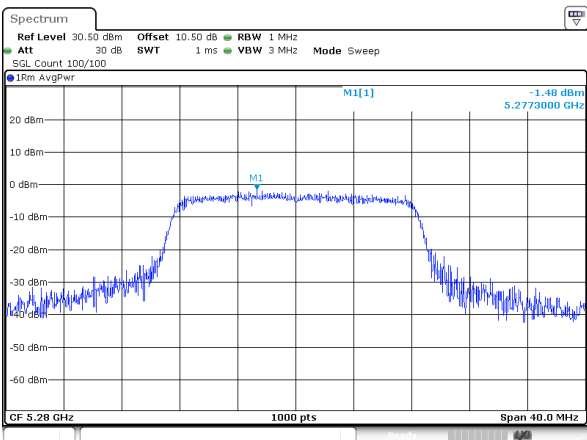
802.11ax40_5230MHz_RU_FULL



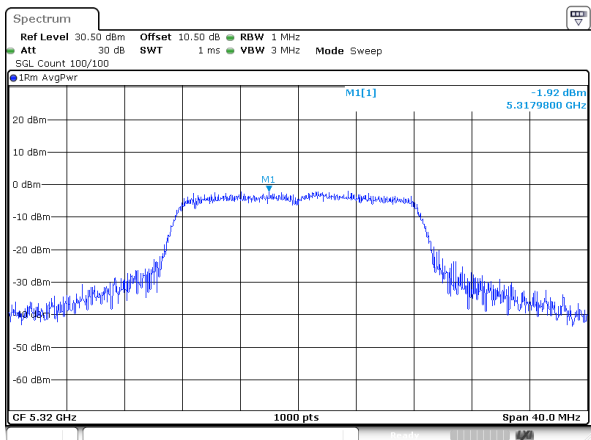
802.11a_5260MHz



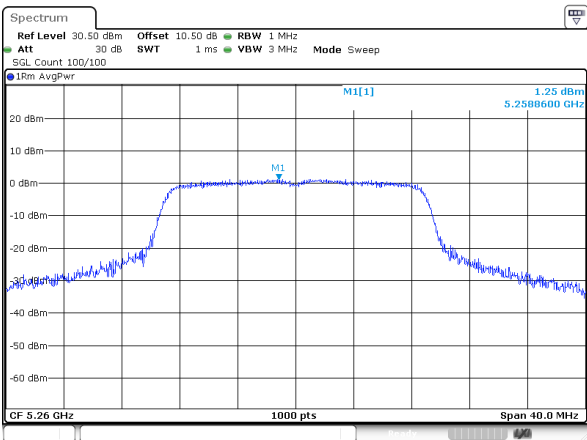
802.11a_5280MHz



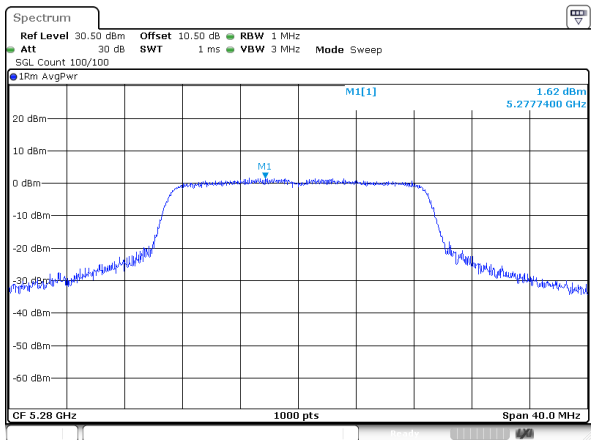
802.11a_5320MHz



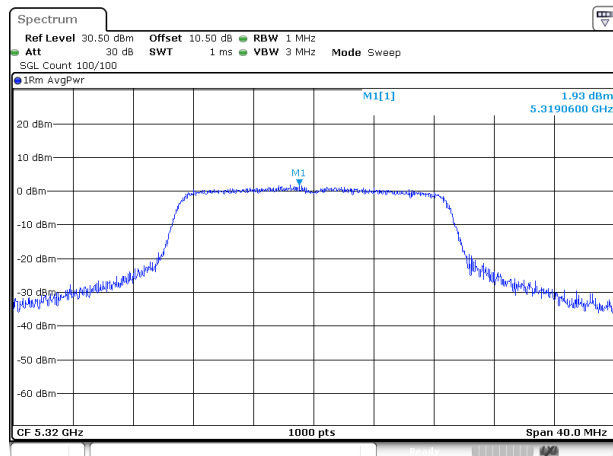
802.11ac20_5260MHz



802.11ac20_5280MHz

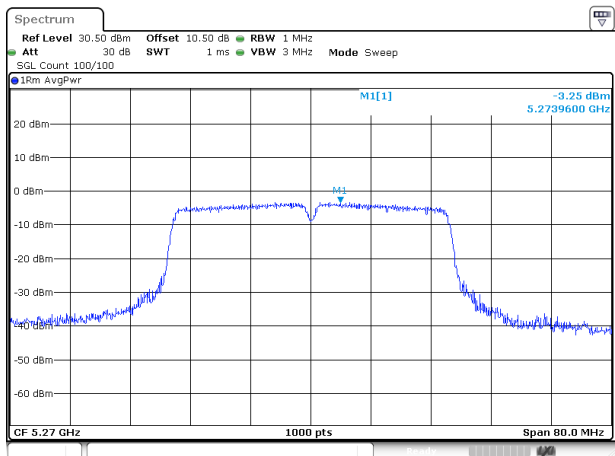


802.11ac20_5320MHz



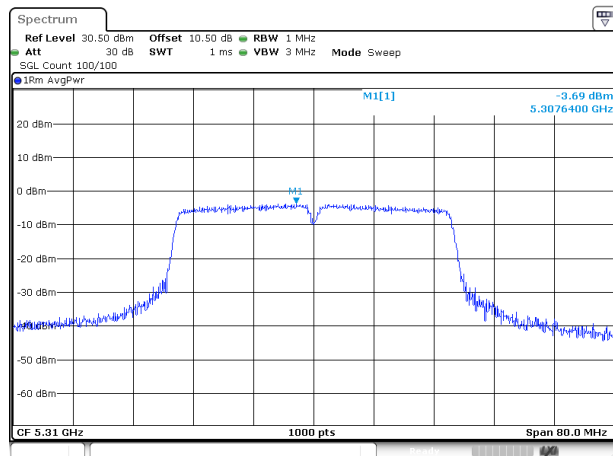
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Date: 5.OCT.2025 21:18:50

802.11ac40_5270MHz



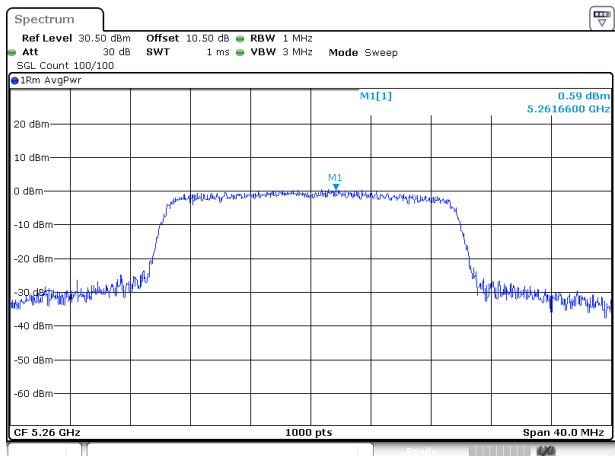
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Date: 5.OCT.2025 21:21:22

802.11ac40_5310MHz



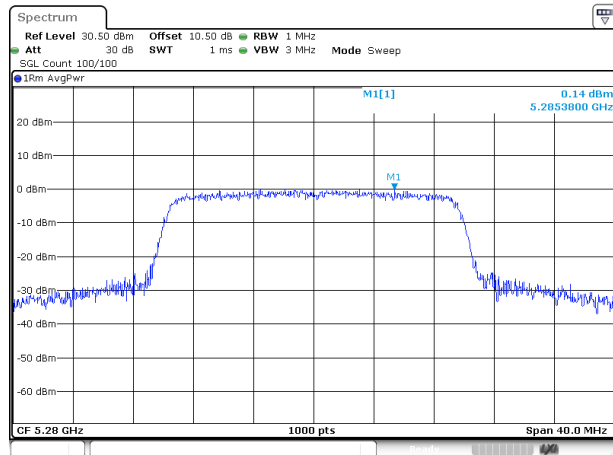
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Date: 5.OCT.2025 21:25:33

802.11ax20_5260MHz_RU_FULL



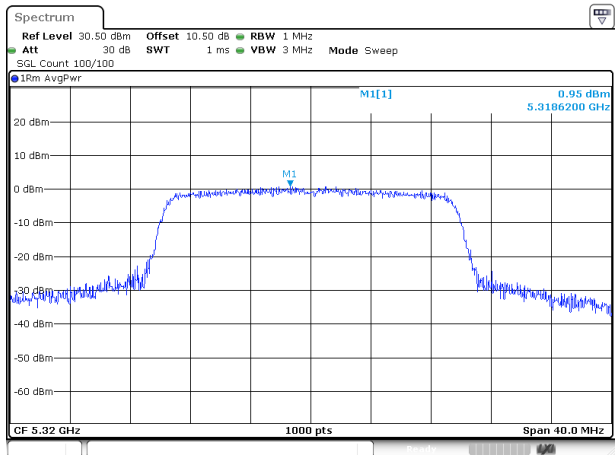
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Date: 5.OCT.2025 21:30:00

802.11ax20_5280MHz_RU_FULL



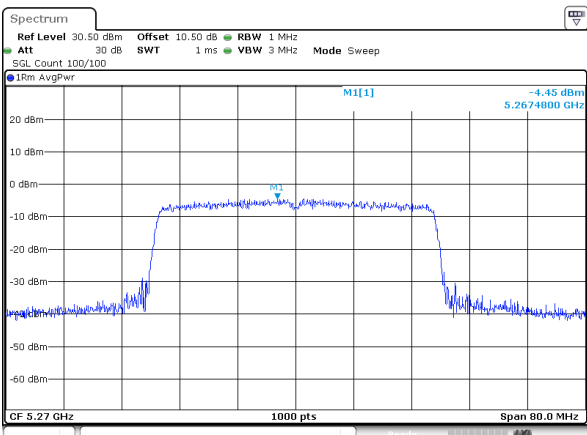
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Date: 5.OCT.2025 21:33:05

802.11ax20_5320MHz_RU_FULL



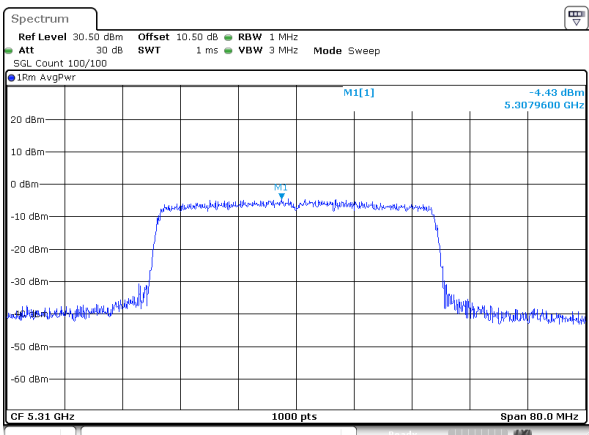
ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 5.OCT.2025 21:35:27

802.11ax40_5270MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaister Liang
Date: 5.OCT.2025 21:38:49

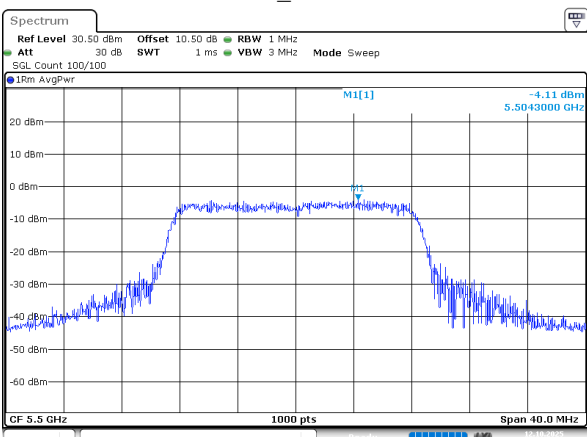
802.11ax40_5310MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaister Liang
Date: 5.OCT.2025 21:40:44

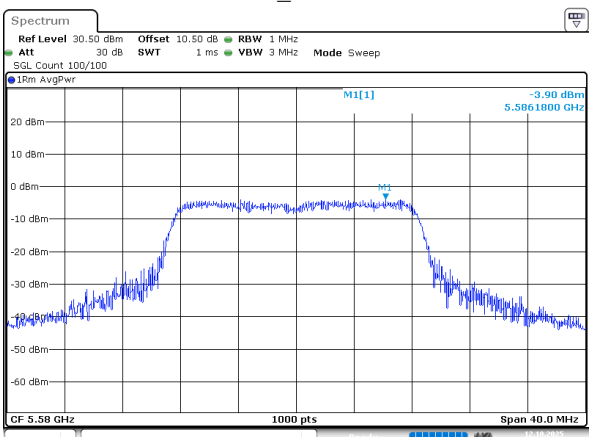
5470-5725MHz

802.11a_5500MHz



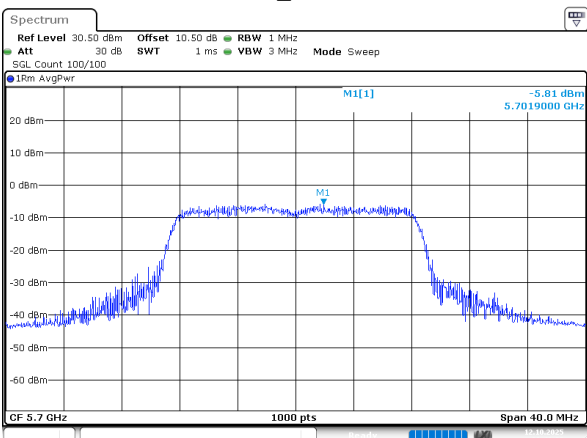
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Date: 12.OCT.2025 00:41:16

802.11a_5580MHz



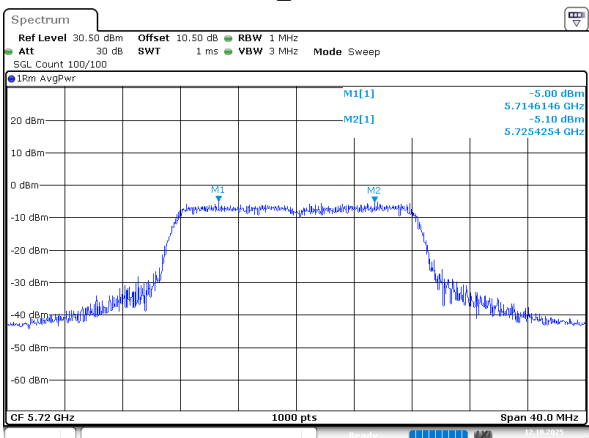
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802.11a_5700MHz



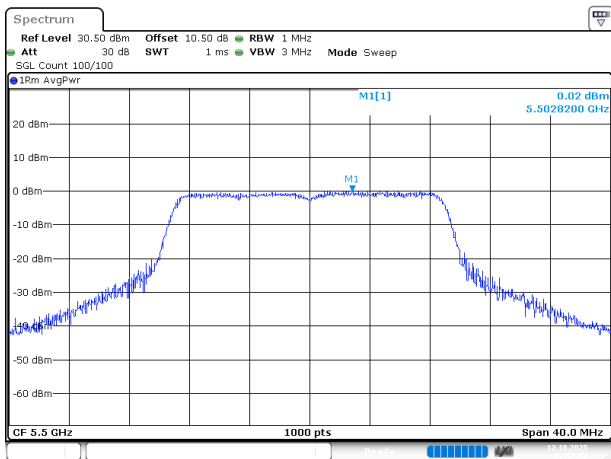
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802.11a_5720MHz



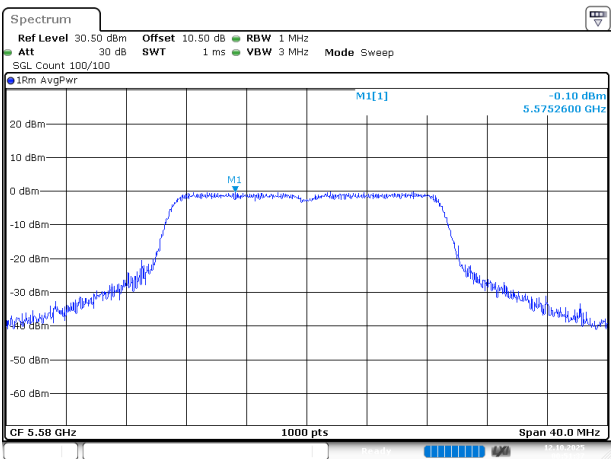
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Date: 12.OCT.2025 00:48:13

802.11ac20_5500MHz



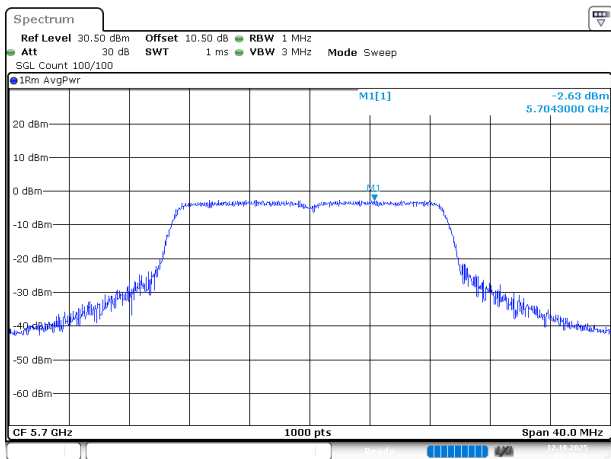
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802.11ac20_5580MHz



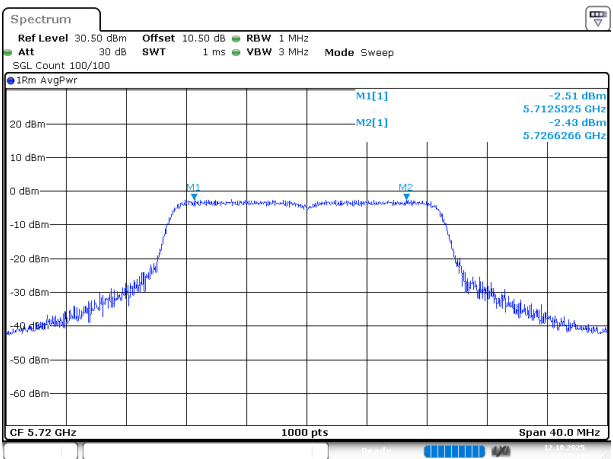
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Date: 12.OCT.2025 00:51:37

802.11ac20_5700MHz



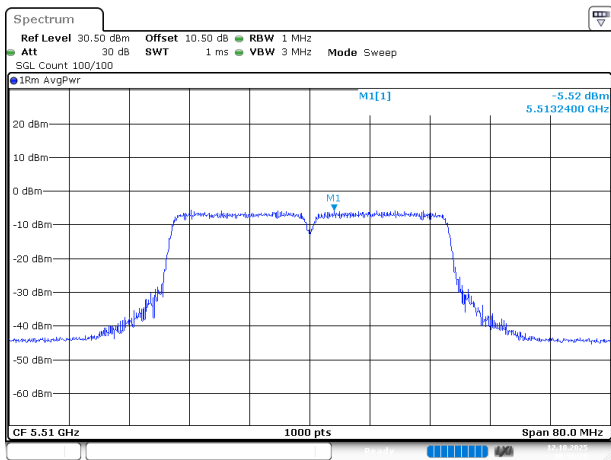
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802.11ac20_5720MHz



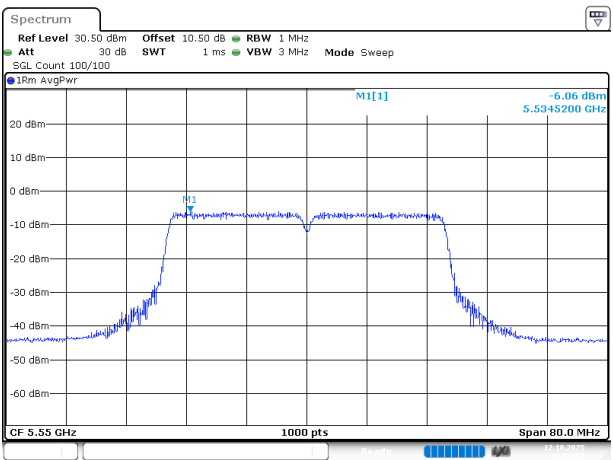
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Date: 12.OCT.2025 00:55:11

802.11ac40_5510MHz



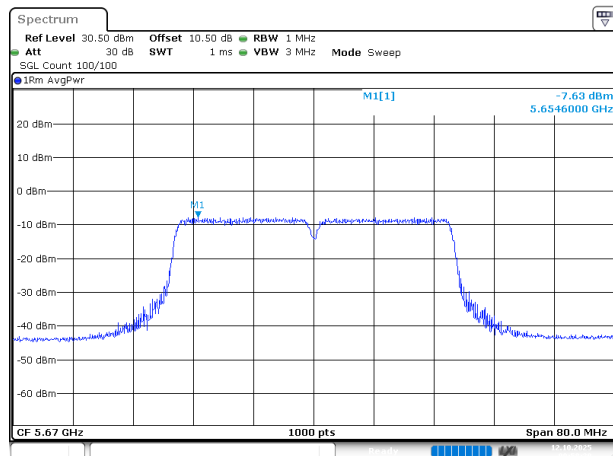
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Date: 12.OCT.2025 00:56:29

802.11ac40_5550MHz



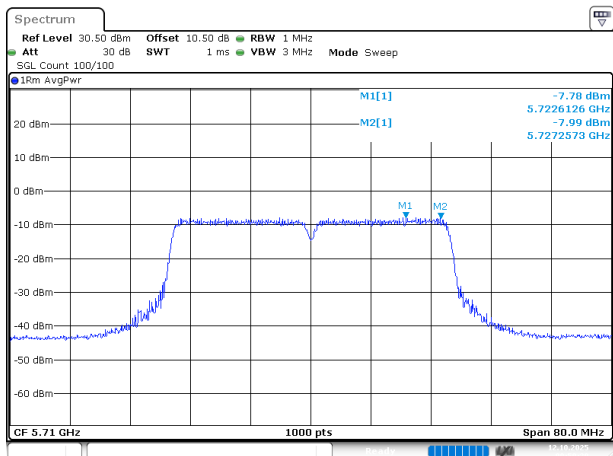
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Date: 12.OCT.2025 00:57:21

802.11ac40_5670MHz



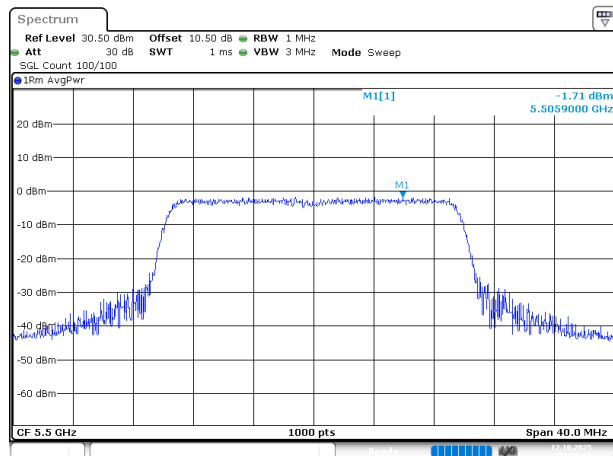
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Date: 12.OCT.2025 00:58:30

802.11ac40_5710MHz



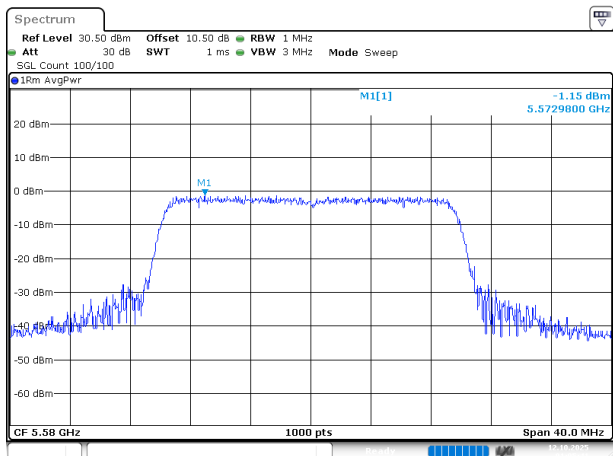
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Date: 12.OCT.2025 00:59:29

802.11ax20_5500MHz_RU_FULL



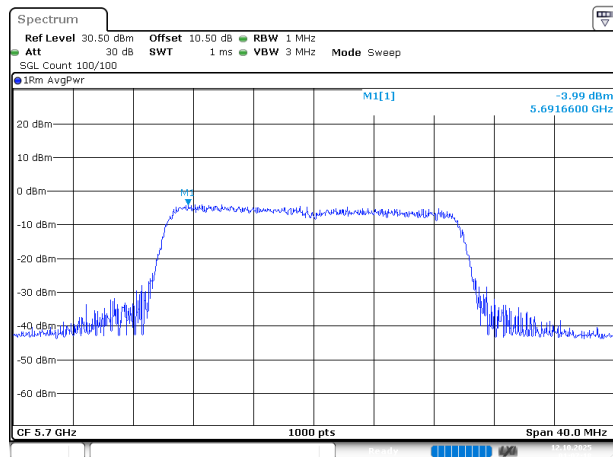
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Date: 12.OCT.2025 01:01:52

802.11ax20_5580MHz_RU_FULL



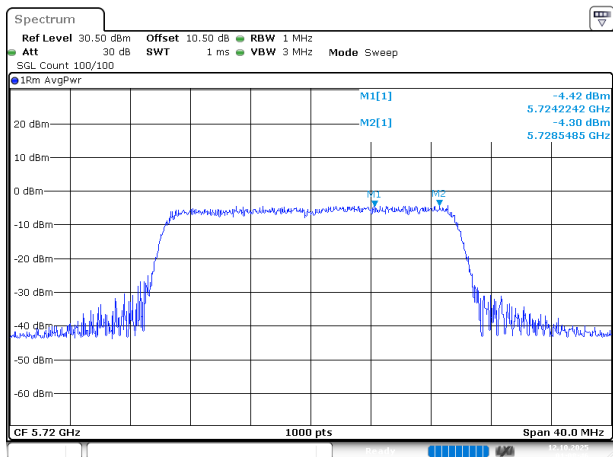
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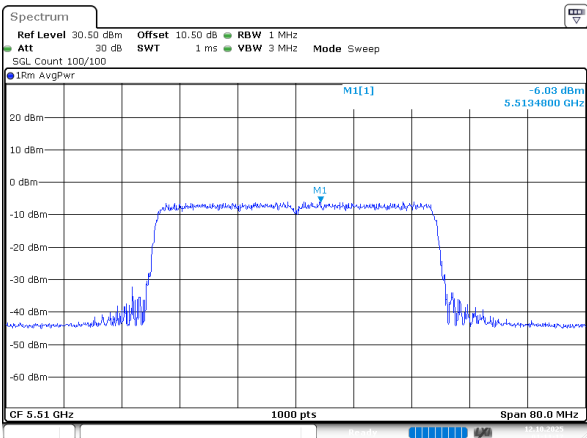
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Date: 12.OCT.2025 01:07:18

802.11ax20_5720MHz_RU_FULL



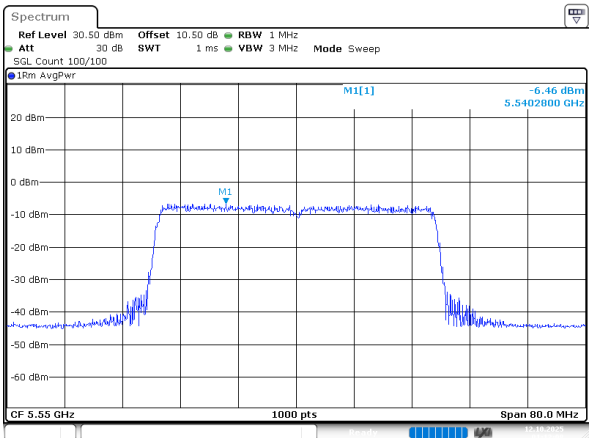
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Date: 12.OCT.2025 01:08:46

802.11ax40_5510MHz_RU_FULL



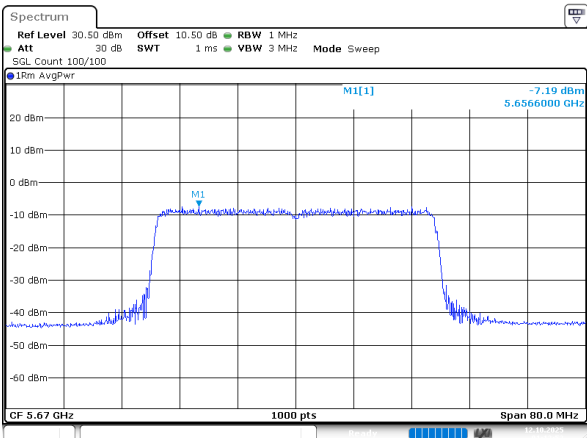
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Date: 12.OCT.2025 01:11:17

802.11ax40_5550MHz_RU_FULL



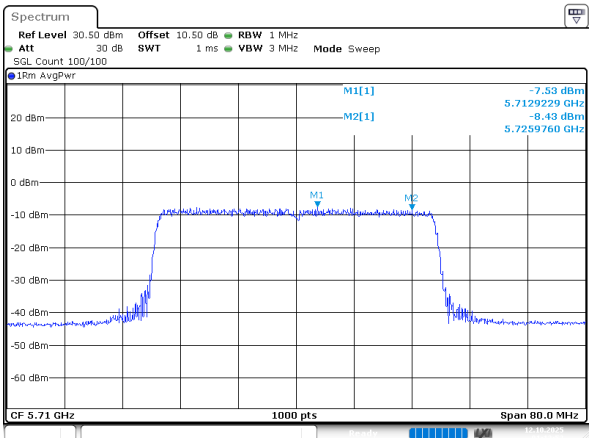
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Date: 12.OCT.2025 01:12:08

802.11ax40_5670MHz_RU_FULL



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Date: 12.OCT.2025 01:12:52

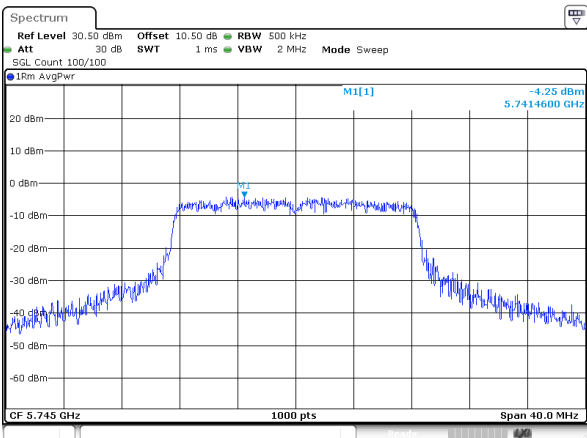
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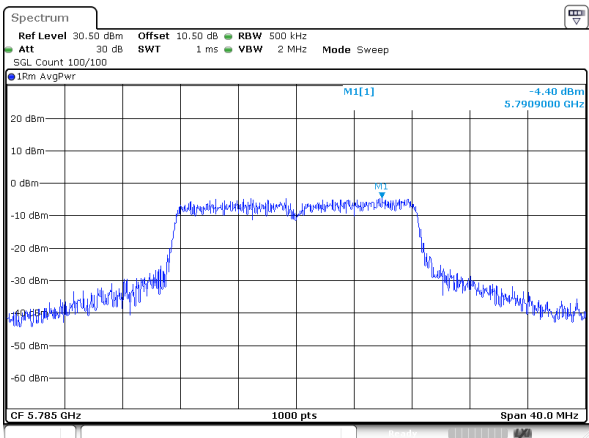
5725-5850MHz

802.11a_5745MHz



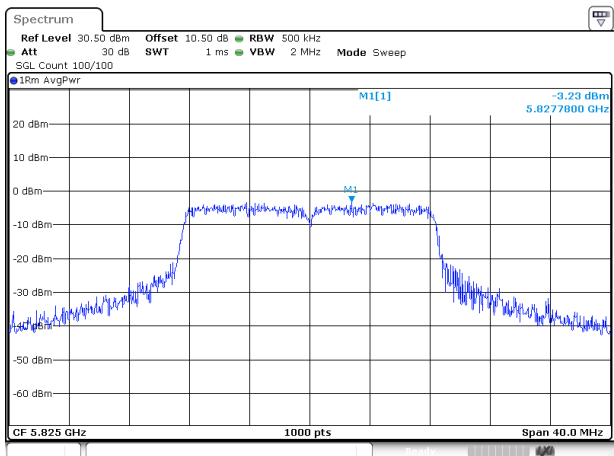
ProjectNo.:2501X20051E-RF Tester:Kungfumaister Liang
Date: 9.OCT.2025 22:12:01

802.11a_5785MHz



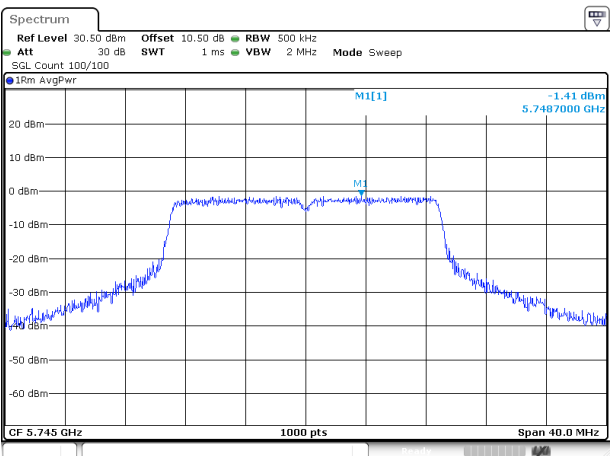
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Date: 9.OCT.2025 22:15:07

802.11a_5825MHz



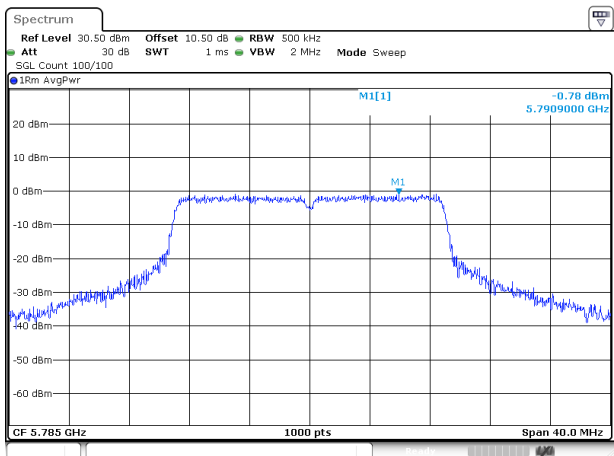
ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 9.OCT.2025 22:21:45

802.11ac20_5745MHz



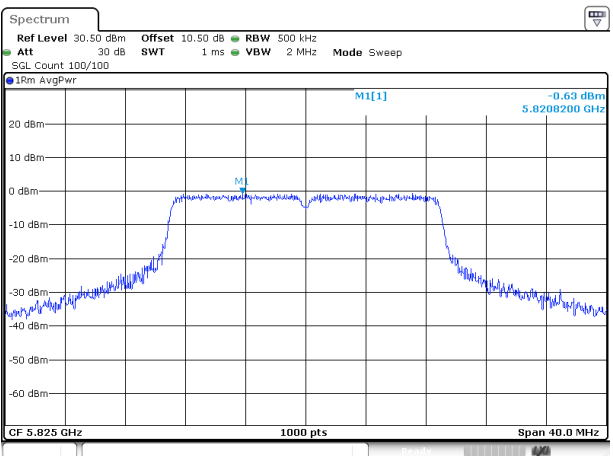
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Date: 9.OCT.2025 22:35:52

802.11ac20_5785MHz



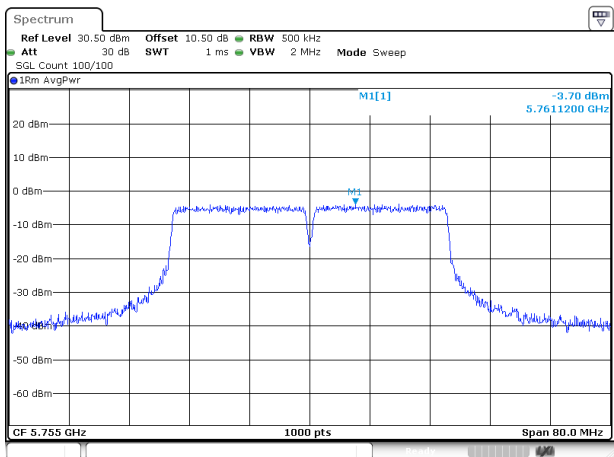
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Date: 9.OCT.2025 22:27:37

802.11ac20_5825MHz



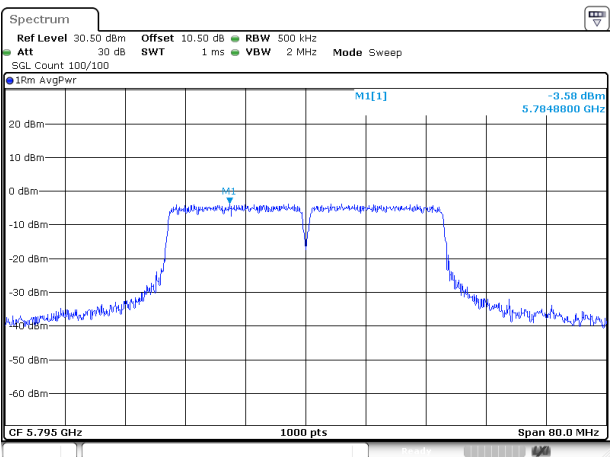
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Date: 9.OCT.2025 22:29:38

802.11ac40_5755MHz



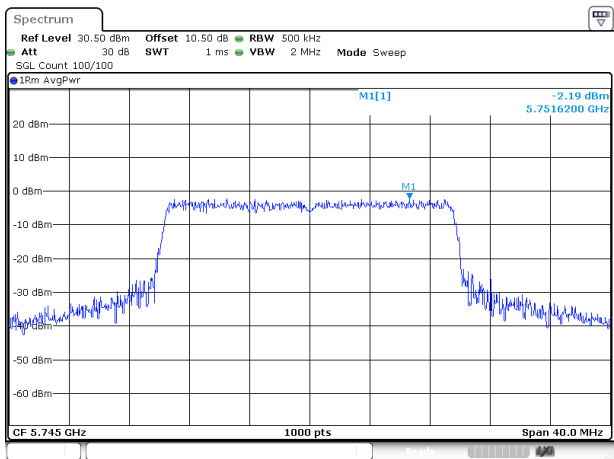
ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 9.OCT.2025 22:38:04

802.11ac40_5795MHz



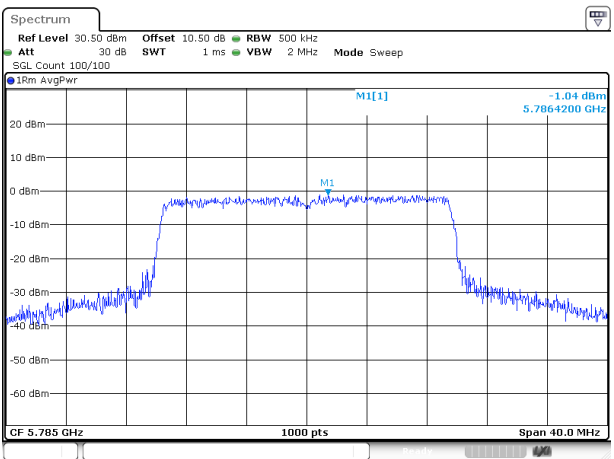
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Date: 9.OCT.2025 22:39:43

802.11ax20_5745MHz_RU_FULL



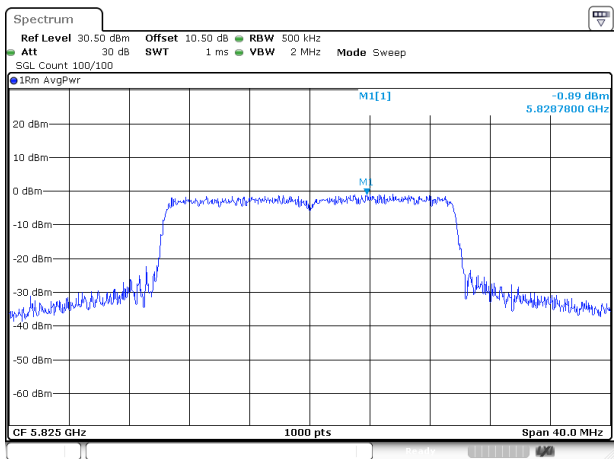
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Date: 9.OCT.2025 22:42:49

802.11ax20_5785MHz_RU_FULL



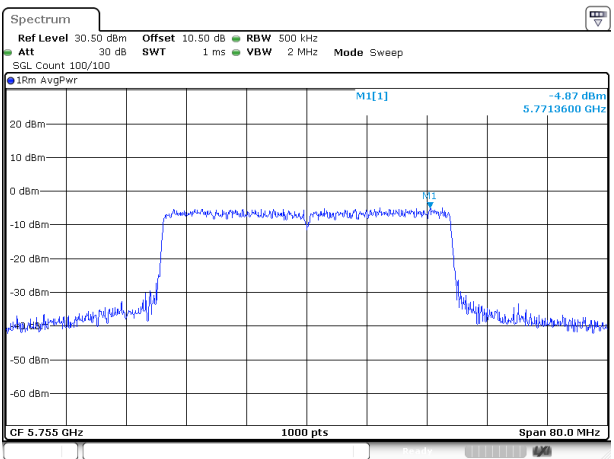
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Date: 9.OCT.2025 22:45:35

802.11ax20_5825MHz_RU_FULL



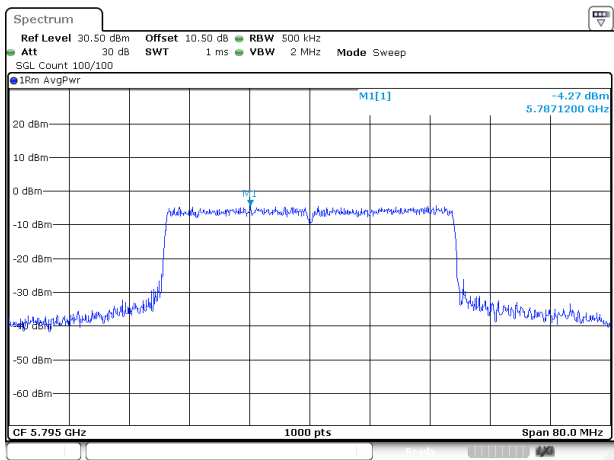
ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 9.OCT.2025 22:48:14

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 9.OCT.2025 22:50:08

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaater Liang
Date: 9.OCT.2025 22:51:39

Duty Cycle**Test Information:**

Sample No.:	3A1I-1	Test Date:	2025/10/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	N/A

Environmental Conditions:

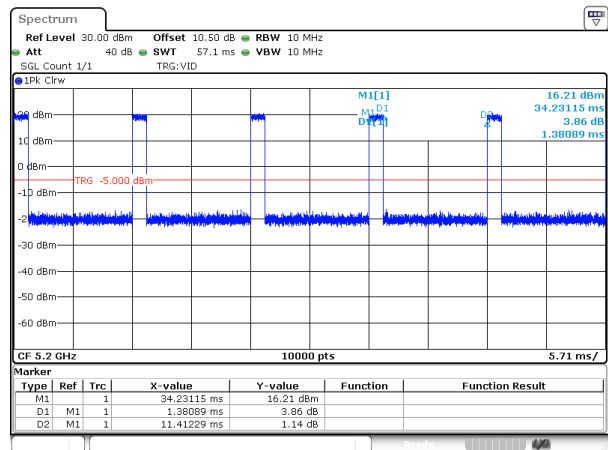
Temperature: (°C)	24.8	Relative Humidity: (%)	50	ATM Pressure: (kPa)	101.1
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Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.381	11.412	12.10	9.17	724	1.0
802.11ac20	5200	5.075	15.111	33.58	4.74	197	0.2
802.11ac40	5190	4.891	14.920	32.78	4.84	204	0.3
802.11ax20_RU_FULL	5200	3.859	13.883	27.80	5.56	259	0.3
802.11ax40_RU_FULL	5190	3.859	13.883	27.80	5.56	259	0.3

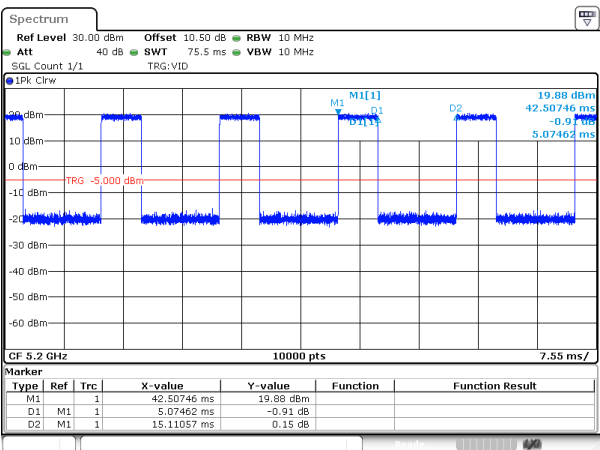
$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff})*100\%$$

802.11a_5200MHz



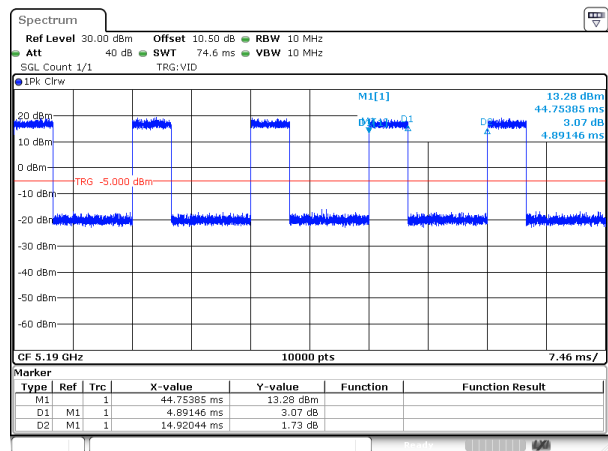
ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 19:08:32

802.11ac20_5200MHz



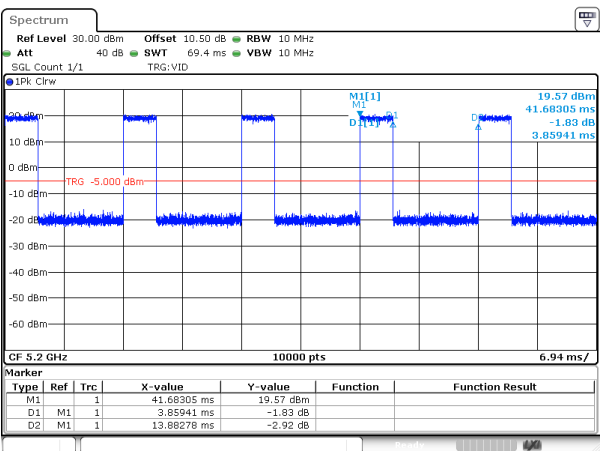
ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 19:08:16

802.11ac40_5190MHz



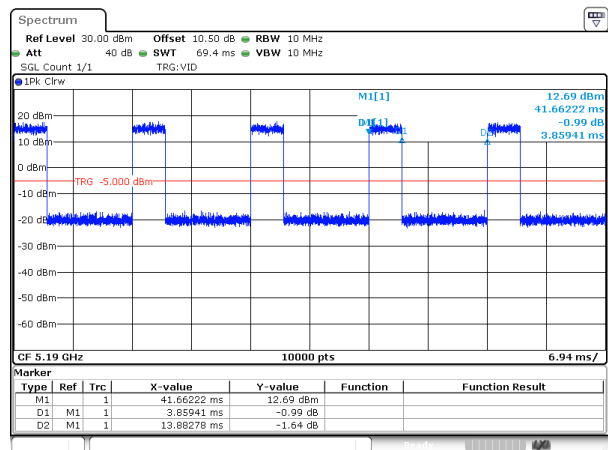
ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 19:09:28

802.11ax20_5200MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 19:11:37

802.11ax40_5190MHz_RU_FULL



ProjectNo.:2501X20051E-RF Tester:Kungfumaster Liang
Date: 5.OCT.2025 19:13:07

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 v01 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	$0.0128 R^2f$.
1,500-100,000	$19.2R^2$.

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)		
2.4G Wi-Fi	2412-2462	20.0	3.13	0.98	20.98	125.31	0.2	768
5.2G Wi-Fi	5180-5240	16.0	3.57	1.42	17.42	55.21	0.2	768
5.3G Wi-Fi	5260-5320	19.0	3.27	1.12	20.12	102.80	0.2	768
5.6G Wi-Fi	5500-5720	16.5	2.89	0.74	17.24	52.97	0.2	768
5.8G Wi-Fi	5745-5825	19.0	2.66	0.51	19.51	89.33	0.2	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

2. 0dBd=2.15dBi

3. The 2.4G and 5G Wi-Fi cannot transmit at same time.

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

Result: Compliant

Field reference level exposure exemption limits

Applicable Standard

According to RSS-102 Issue 6§6.6:

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance) In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

Calculated Data:

Mode	Frequency (MHz)	Maximum tune-up conducted power [#] (dBm)	Antenna Gain [#]	Maximum tune-up EIRP		Evaluation Distance (m)	Limit (mW)
			(dBi)	(dBm)	(mW)		
2.4G Wi-Fi	2412-2462	20.0	3.13	23.13	205.59	0.2	2684
5.2G Wi-Fi	5180-5240	16.0	3.57	19.57	90.57	0.2	4525
5.3G Wi-Fi	5260-5320	19.0	3.27	22.27	168.66	0.2	4573
5.6G Wi-Fi	5500-5720	16.5	2.89	19.39	86.90	0.2	4714
5.8G Wi-Fi	5745-5825	19.0	2.66	21.66	146.55	0.2	4857

Note:

1. The tune up conducted power[#] and antenna gain[#] was declared by the applicant.
2. The 2.4G and 5G Wi-Fi cannot transmit at same time.

Result: Compliant

Note: To maintain compliance with the RF exposure guidelines, place the equipment at least 20cm from nearby persons.

EUT PHOTOGRAPHS

Please refer to the attachment 2501X20051E-RF-EXP External photo and 2501X20051E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501X20051E-RF-TSPB Test Setup photo.

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