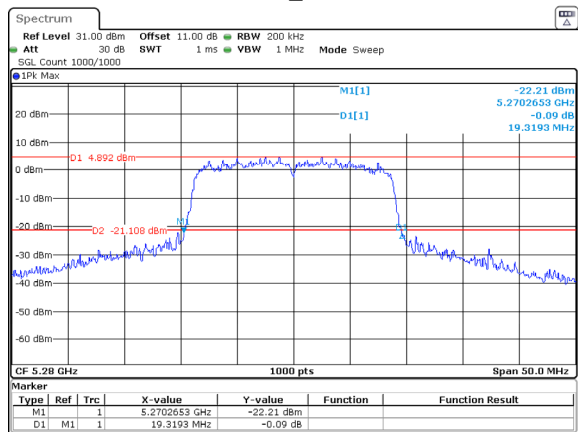
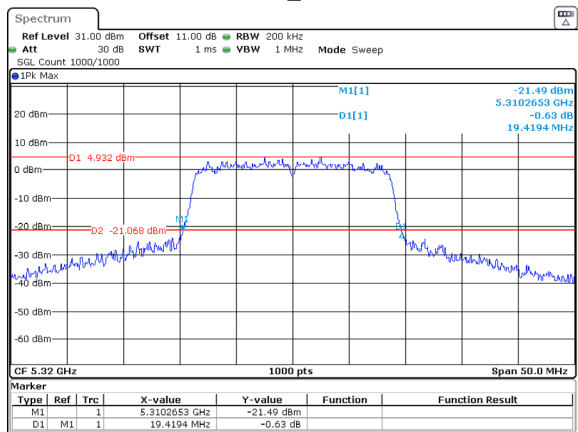


802.11n20_5280MHz



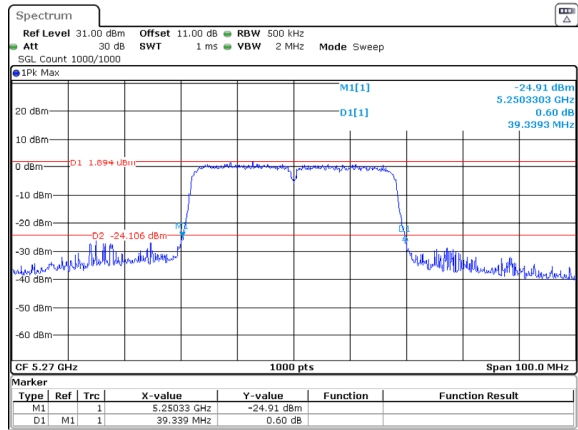
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 15:28:02

802.11n20_5320MHz



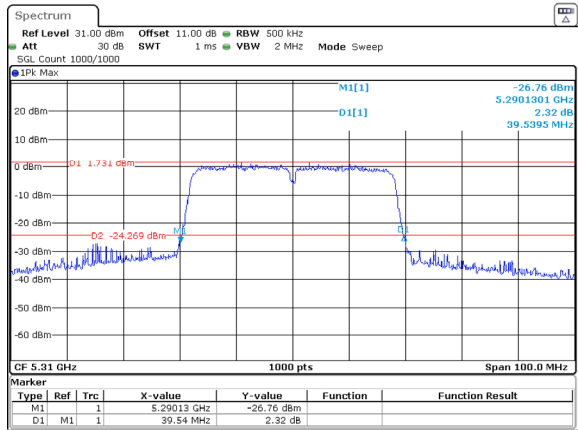
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Date: 3.MAR.2025 15:30:39

802.11n40_5270MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:15:43

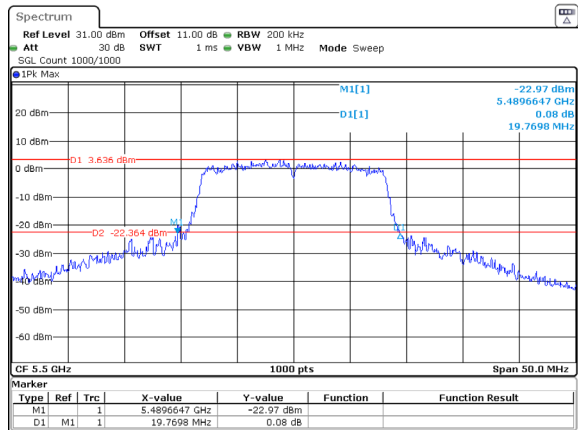
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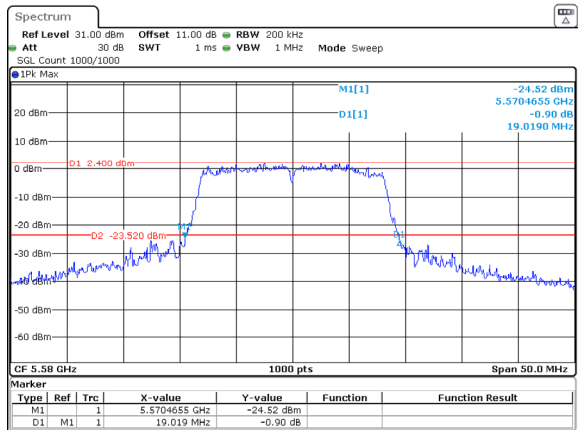
5470-5725MHz

802.11a_5500MHz



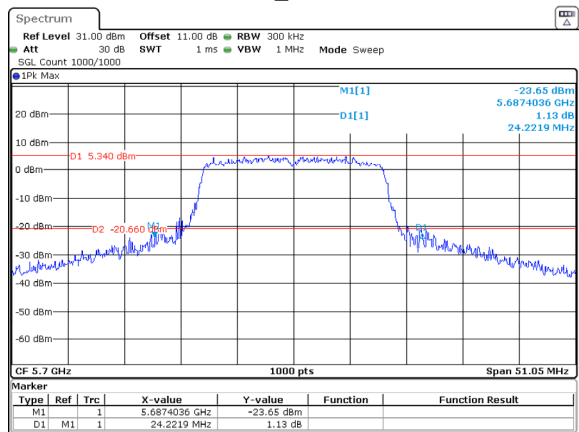
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802.11a_5580MHz



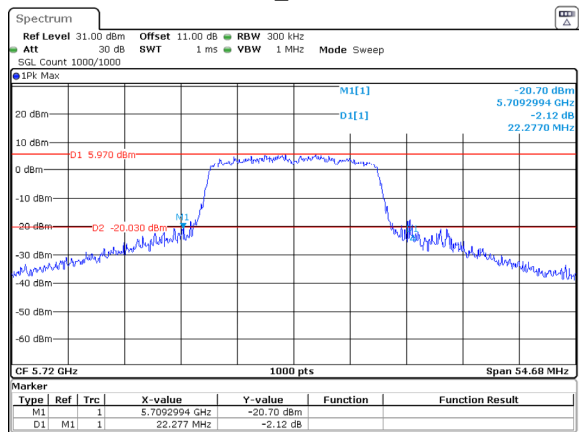
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802.11a_5700MHz



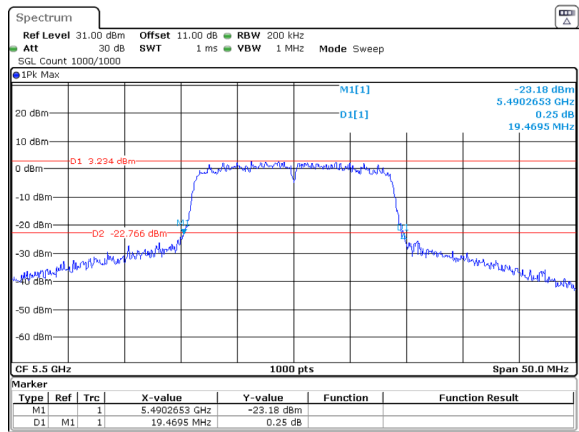
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802.11a_5720MHz



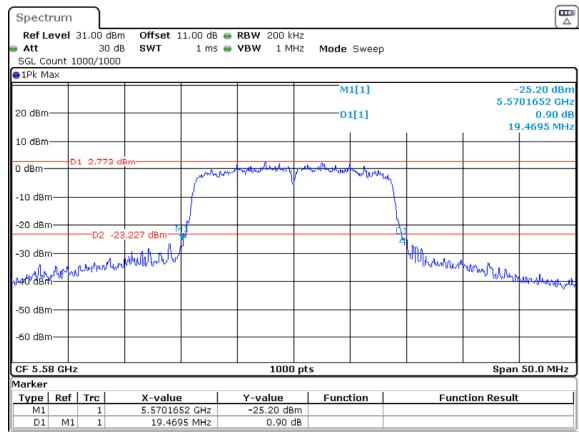
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802.11n20_5500MHz



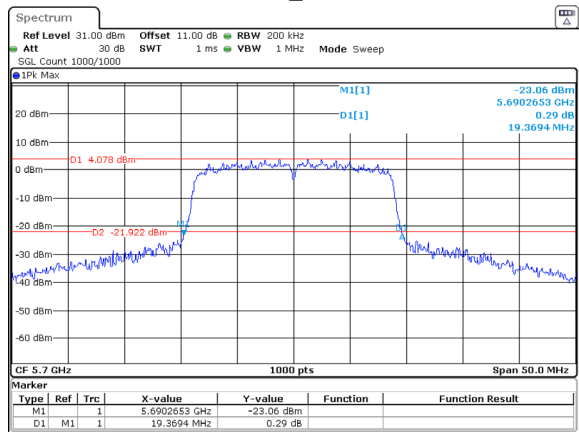
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802.11n20_5580MHz



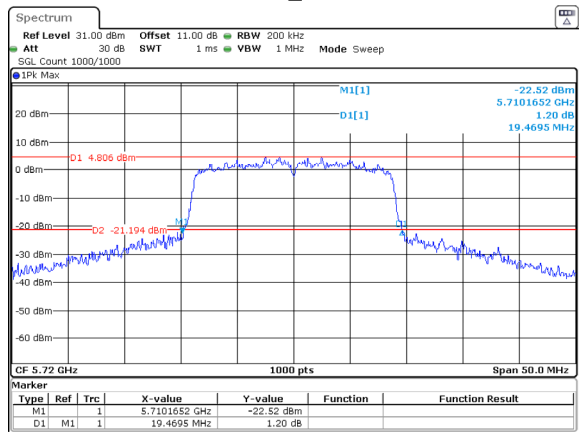
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802.11n20_5700MHz



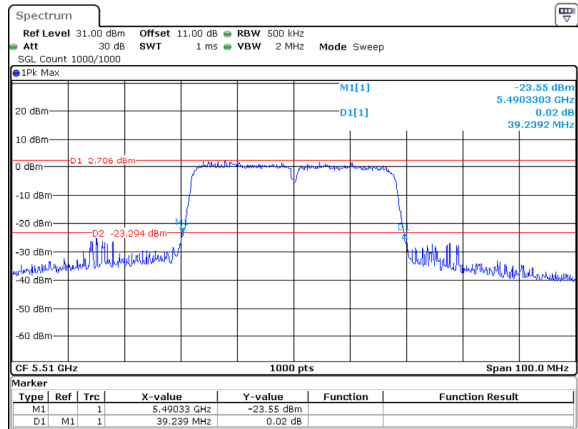
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802.11n20_5720MHz



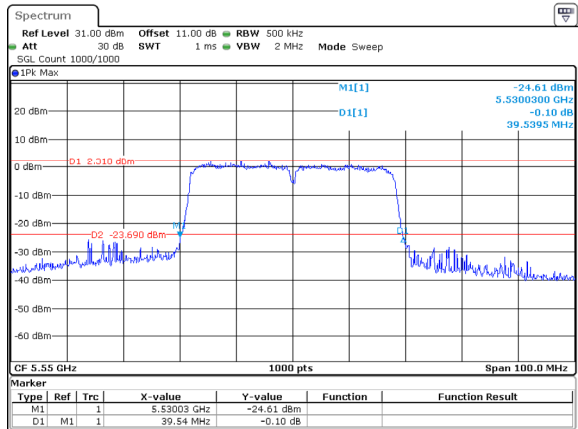
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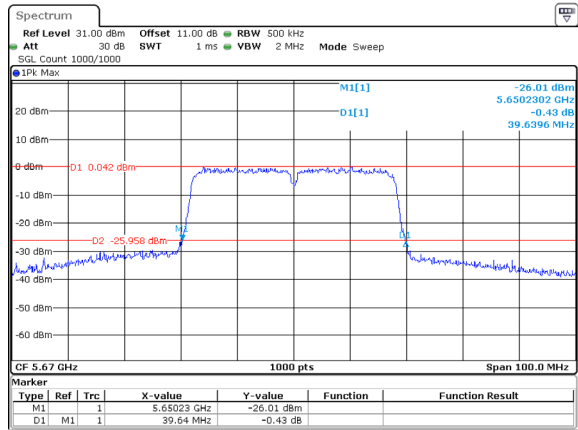
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Date: 19.MAR.2025 14:28:46

802.11n40_5550MHz



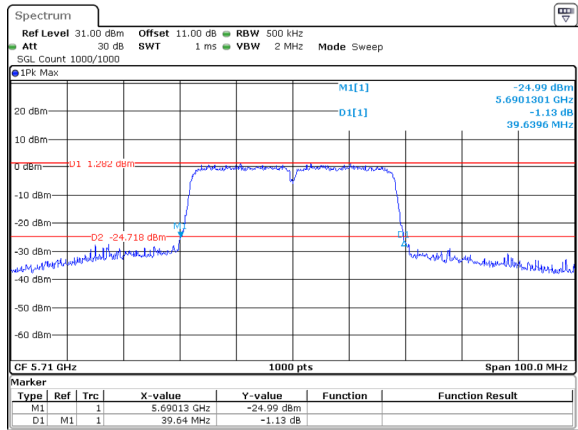
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802.11n40_5670MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 19.MAR.2025 14:30:05

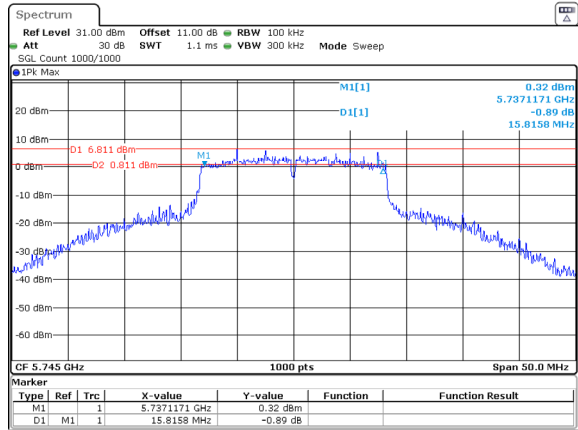
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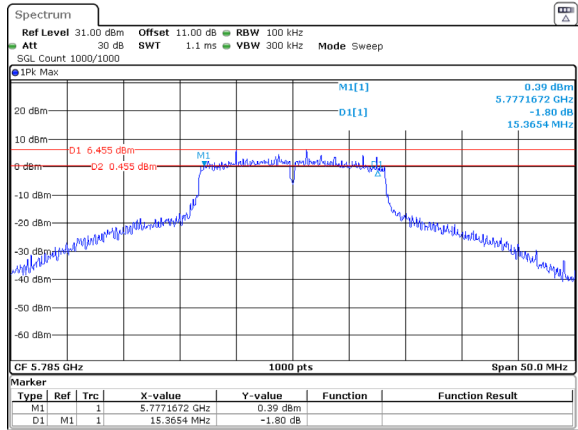
5725-5850MHz

802.11a_5745MHz



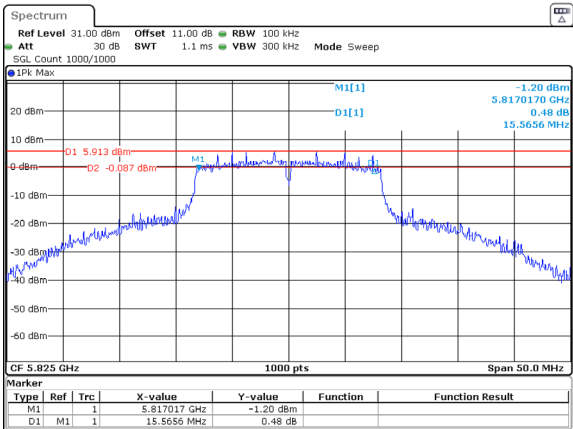
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Date: 3.MAR.2025 14:58:01

802.11a_5785MHz



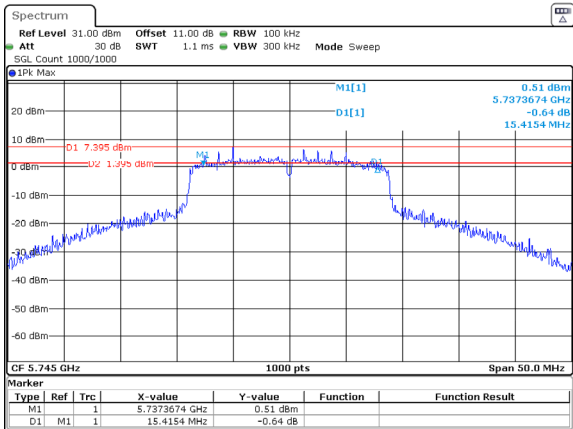
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Date: 3.MAR.2025 15:02:19

802.11a_5825MHz



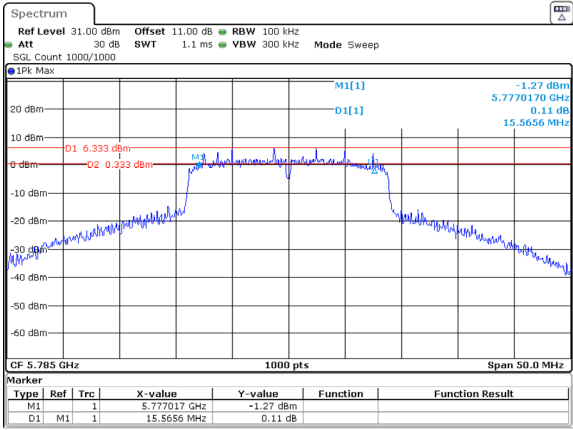
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802.11n20_5745MHz



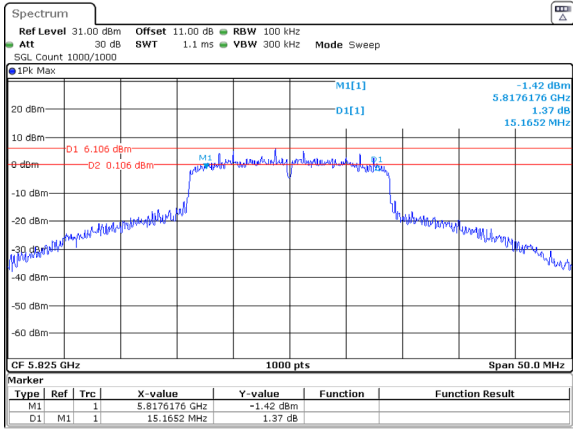
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802.11n20_5785MHz



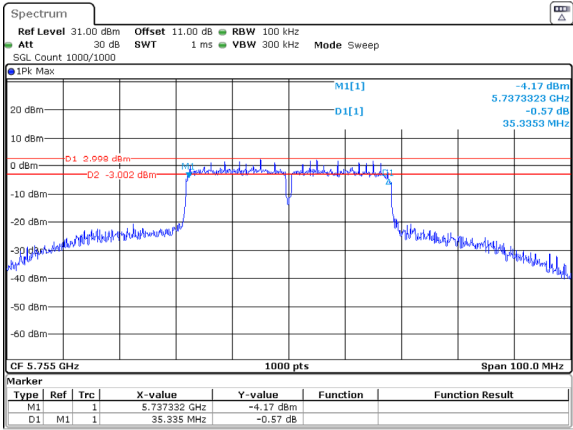
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802.11n20_5825MHz



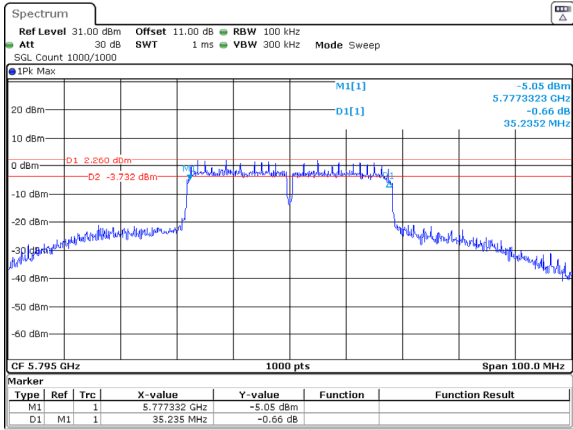
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 Date: 3.MAR.2025 16:04:58

802.11n40_5755MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
 Date: 3.MAR.2025 16:28:49

802.11n40_5795MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
 Date: 3.MAR.2025 16:32:01

99% Occupied Bandwidth**Test Information:**

Sample No.:	2XKL-1	Test Date:	2025/03/03
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.8-25.2	Relative Humidity: (%)	42-45	ATM Pressure: (kPa)	101
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	18.350
	5200	17.600
	5240	16.700
802.11n20	5180	18.550
	5200	17.900
	5240	17.600
802.11n40	5190	36.200
	5230	36.100

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5250-5350MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5260	16.450
	5280	16.400
	5320	16.400
802.11n20	5260	17.500
	5280	17.350
	5320	17.400
802.11n40	5270	36
	5310	36

5470-5725MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5500	16.450
	5580	16.400
	5700	16.450
	5720	16.450
802.11n20	5500	17.450
	5580	17.450
	5700	17.400
	5720	17.450
802.11n40	5510	35.900
	5550	36
	5670	35.900
	5710	36

5725-5850MHz

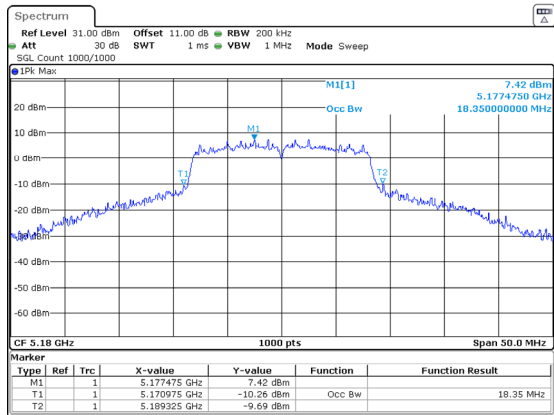
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	18.250
	5785	17.350
	5825	18.300
802.11n20	5745	18.750
	5785	18.150
	5825	18.600
802.11n40	5755	37.300
	5795	39.900

Note:

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

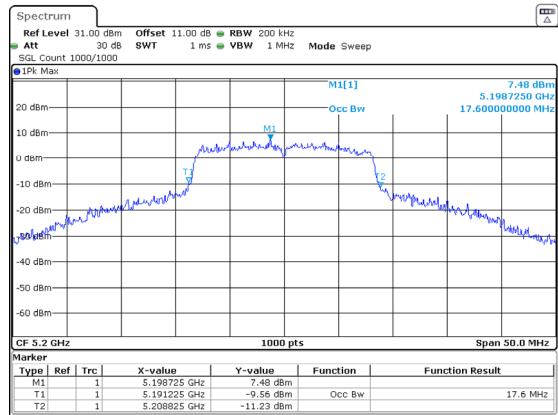
5150-5250MHz

802.11a_5180MHz



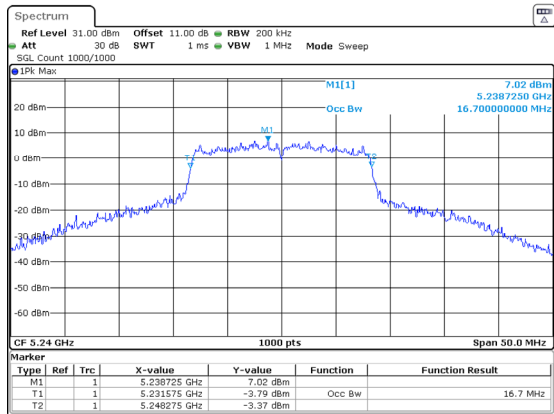
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Date: 3.MAR.2025 14:18:04

802.11a_5200MHz



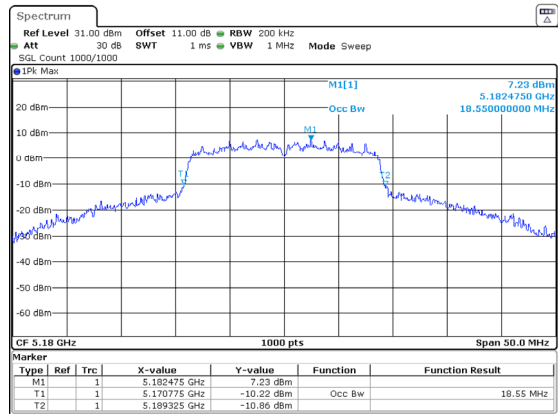
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Date: 3.MAR.2025 14:20:48

802.11a_5240MHz



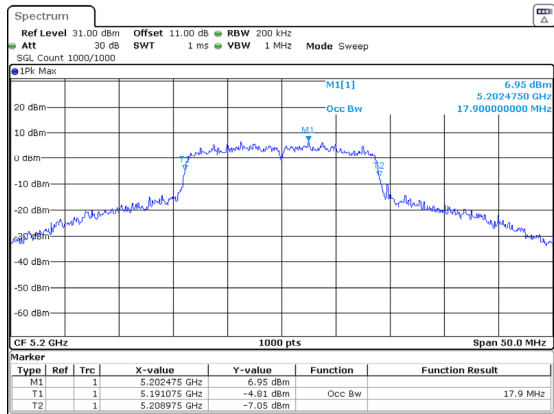
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Date: 3.MAR.2025 14:23:00

802.11n20_5180MHz



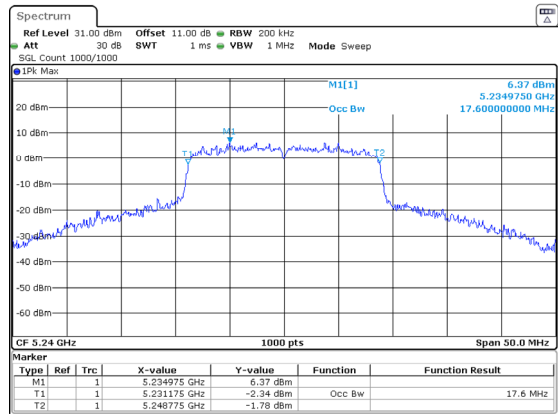
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 15:12:02

802.11n20_5200MHz



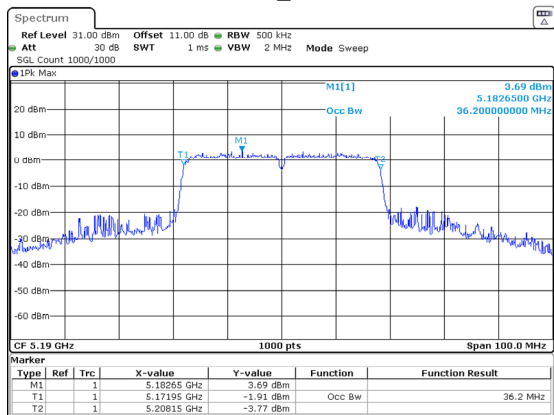
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802.11n20_5240MHz



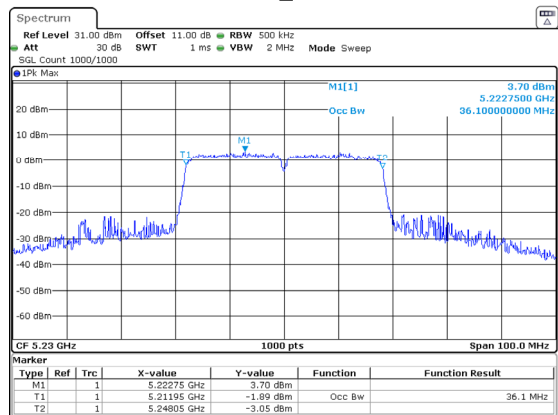
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802.11n40_5190MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:11:55

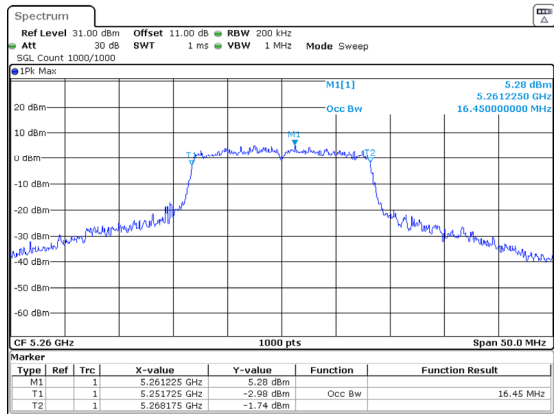
802.11n40_5230MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
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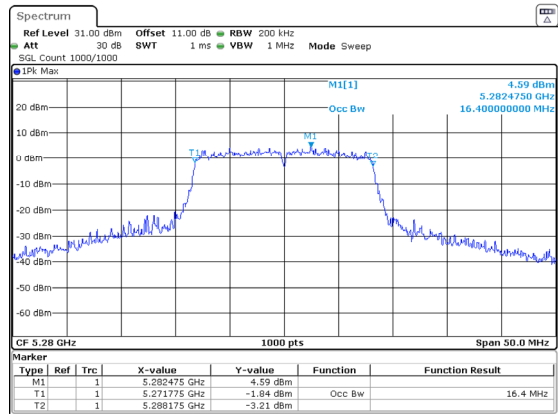
5250-5350MHz

802.11a_5260MHz



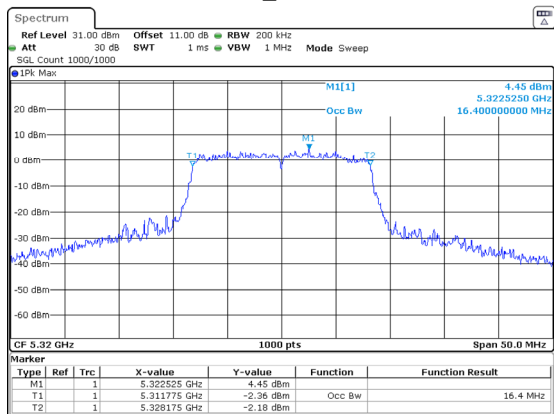
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Date: 3.MAR.2025 14:28:07

802.11a_5280MHz



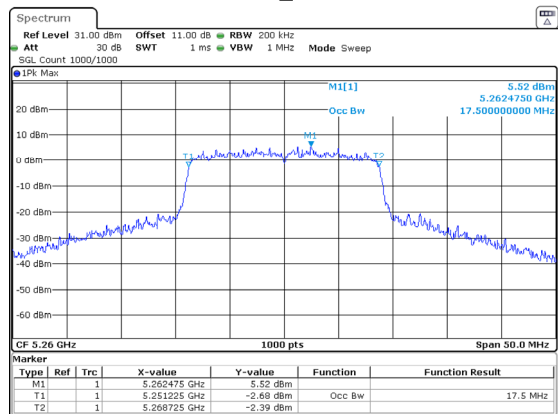
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802.11a_5320MHz



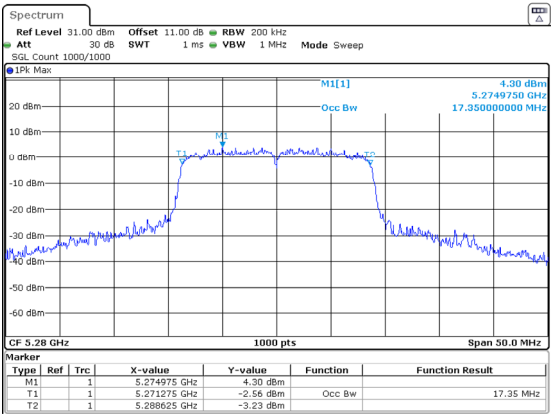
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802.11n20_5260MHz



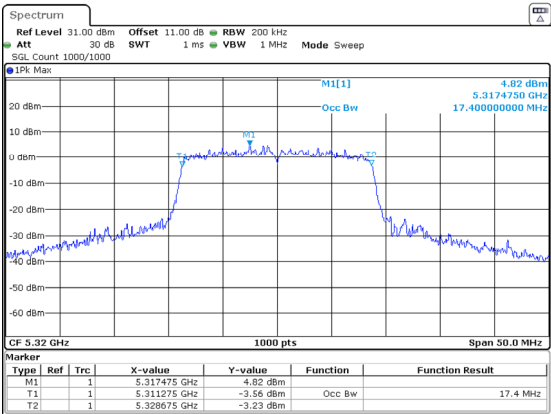
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802.11n20_5280MHz



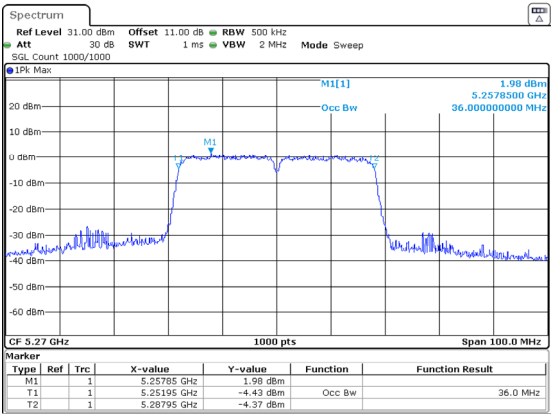
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802.11n20_5320MHz



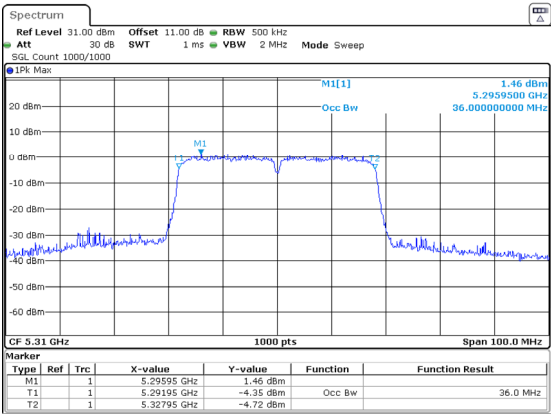
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 15:31:29

802.11n40_5270MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:16:09

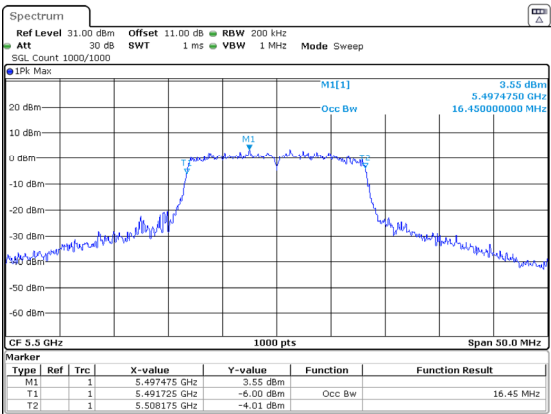
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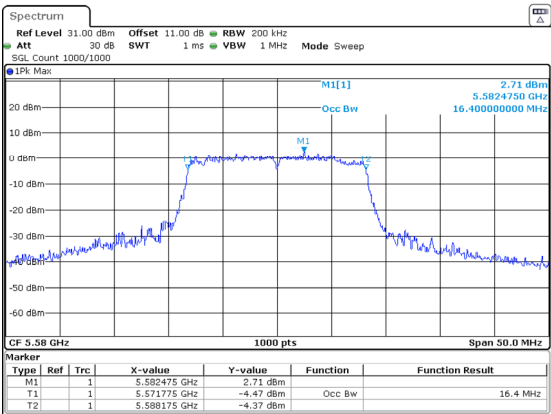
5470-5725MHz

802.11a_5500MHz



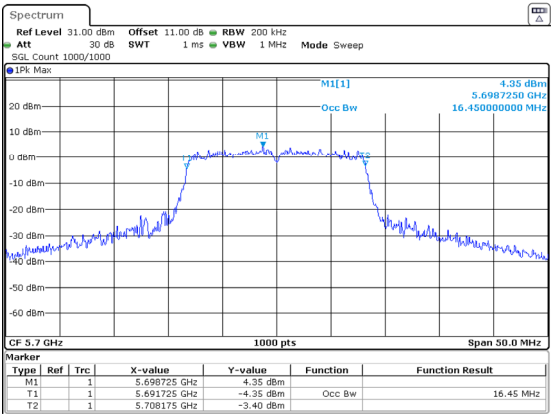
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802.11a_5580MHz



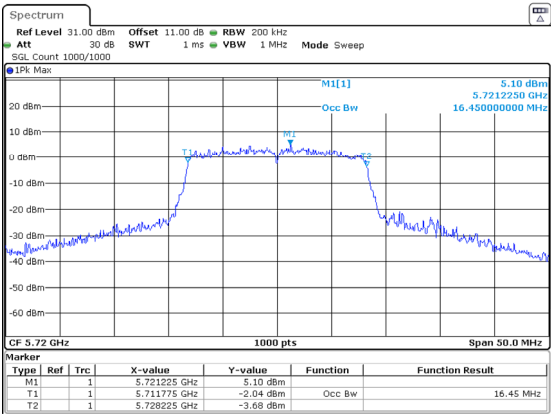
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802.11a_5700MHz



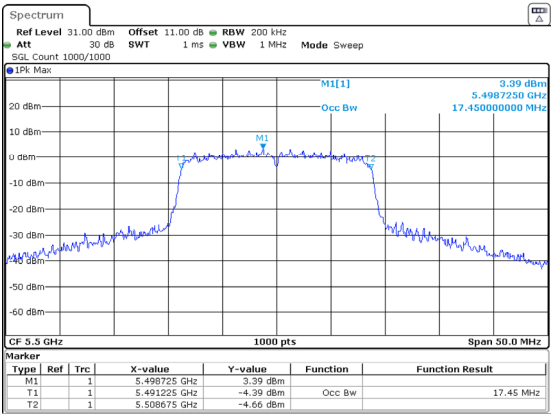
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Date: 3.MAR.2025 14:46:53

802.11a_5720MHz



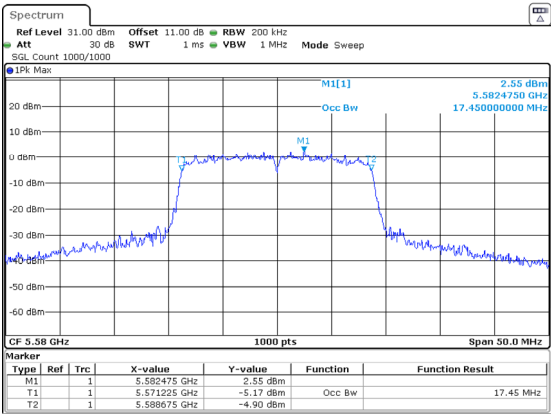
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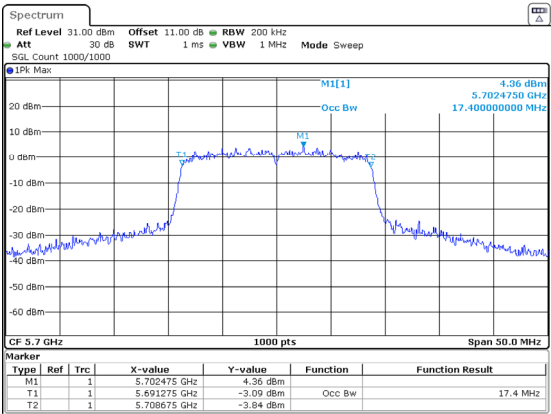
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802.11n20_5580MHz



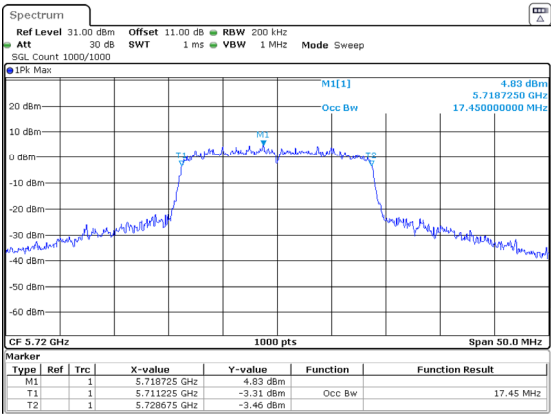
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802.11n20_5700MHz



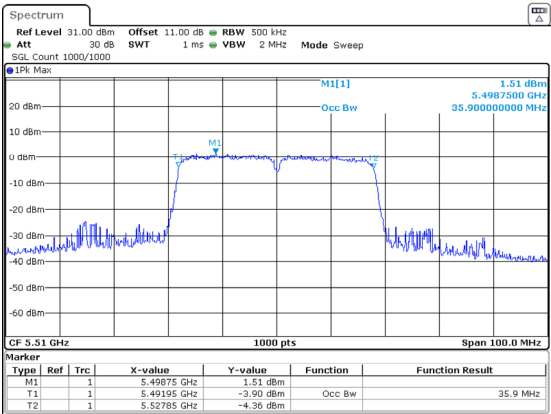
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802.11n20_5720MHz



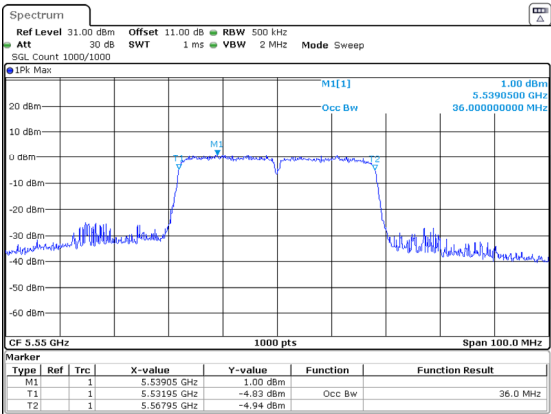
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802.11n40_5510MHz



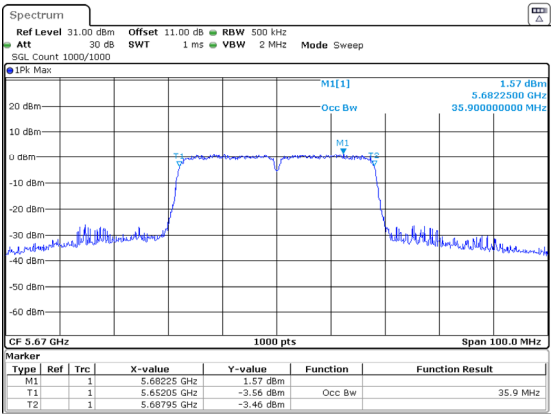
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Date: 3.MAR.2025 16:20:23

802.11n40_5550MHz



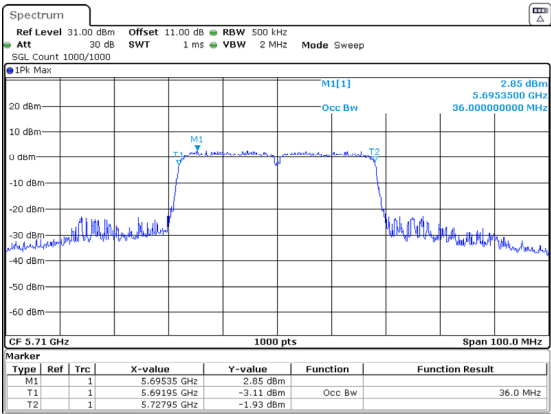
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:22:25

802.11n40_5670MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:24:05

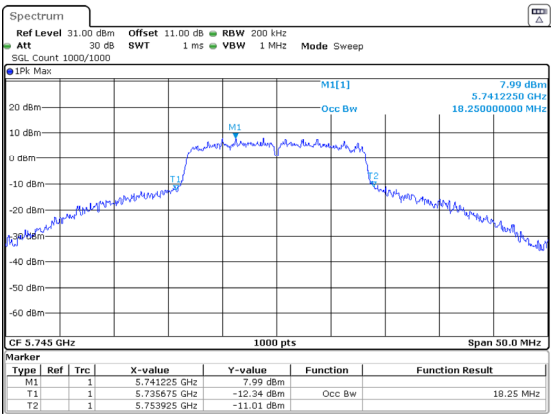
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Date: 3.MAR.2025 16:26:41

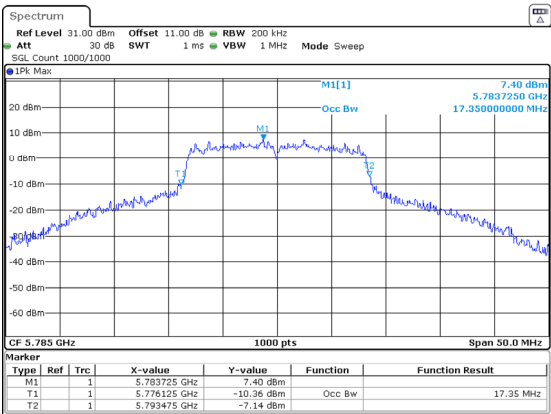
5725-5850MHz

802.11a_5745MHz



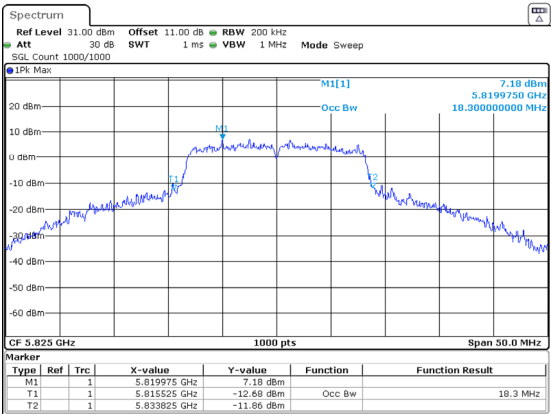
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Date: 3.MAR.2025 14:58:52

802.11a_5785MHz



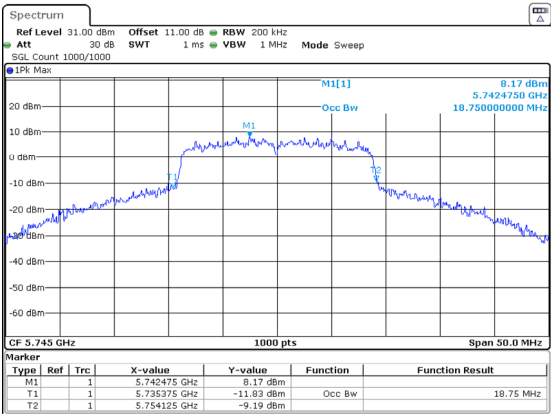
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802.11a_5825MHz



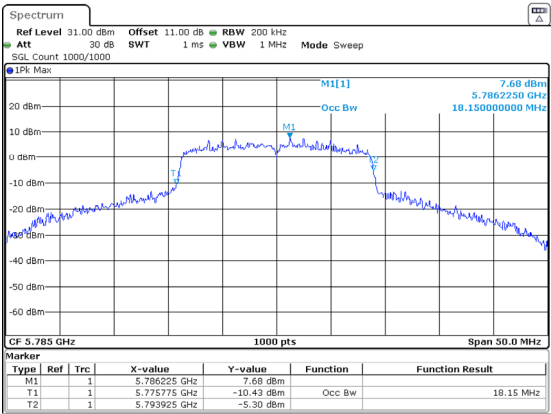
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 15:05:19

802.11n20_5745MHz



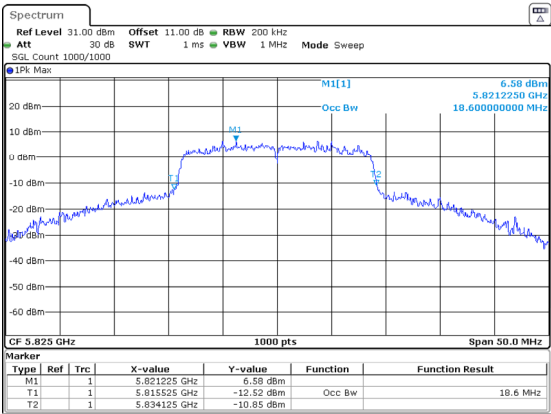
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Date: 3.MAR.2025 15:53:36

802.11n20_5785MHz



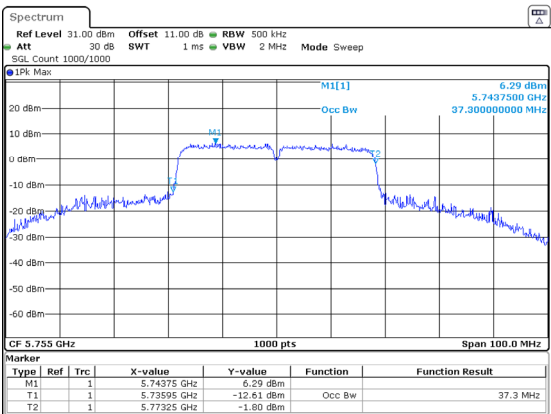
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:03:14

802.11n20_5825MHz



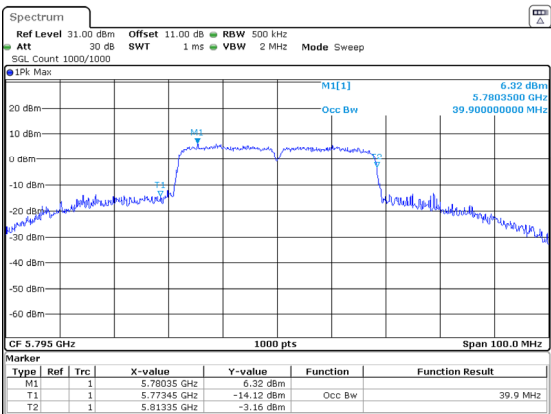
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Date: 3.MAR.2025 16:03:36

802.11n40_5755MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:29:09

802.11n40_5795MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:36:16

Maximum Conducted Output Power**Test Information:**

Sample No.:	2XKL-1	Test Date:	2025/03/03
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-25.2	Relative Humidity: (%)	42-45	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	17.21	24	Pass
	5200	17.16	24	Pass
	5240	16.46	24	Pass
802.11n20	5180	16.17	24	Pass
	5200	16.33	24	Pass
	5240	15.83	24	Pass
802.11n40	5190	13.13	24	Pass
	5230	12.84	24	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5260	15.29	24	Pass
	5280	14.81	24	Pass
	5320	14.24	24	Pass
802.11n20	5260	15.48	24	Pass
	5280	14.05	24	Pass
	5320	13.8	24	Pass
802.11n40	5270	10.88	24	Pass
	5310	10.4	24	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5500	13.47	24	Pass
	5580	11.73	24	Pass
	5700	13.93	24	Pass
	5720	13.49	24	Pass
802.11n20	5500	13.74	24	Pass
	5580	12.18	24	Pass
	5700	13.39	24	Pass
	5720	13.58	24	Pass
802.11n40	5510	10.88	24	Pass
	5550	10.94	24	Pass
	5670	11.32	24	Pass
	5710	12.09	24	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	18.21	30	Pass
	5785	16.92	30	Pass
	5825	16.97	30	Pass
802.11n20	5745	17.61	30	Pass
	5785	16.73	30	Pass
	5825	16.41	30	Pass
802.11n40	5755	16.2	30	Pass
	5795	15.58	30	Pass

Note: The EUT is a client device.

Power Spectral Density**Test Information:**

Sample No.:	2XKL-1	Test Date:	2025/03/03
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-25.2	Relative Humidity: (%)	42-45	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	-0.98	6.97	5.99	11	Pass
	5200	-0.78	6.97	6.19	11	Pass
	5240	0.18	6.97	7.15	11	Pass
802.11n20	5180	0.17	6.97	7.14	11	Pass
	5200	-0.53	6.97	6.44	11	Pass
	5240	-0.54	6.97	6.43	11	Pass
802.11n40	5190	-4.32	3.19	-1.13	11	Pass
	5230	-4.48	3.19	-1.29	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	-2.89	6.97	4.08	11	Pass
	5280	-2.01	6.97	4.96	11	Pass
	5320	-2.43	6.97	4.54	11	Pass
802.11n20	5260	-1.61	6.97	5.36	11	Pass
	5280	-1.93	6.97	5.04	11	Pass
	5320	-2.69	6.97	4.28	11	Pass
802.11n40	5270	-6.50	3.19	-3.31	11	Pass
	5310	-6.52	3.19	-3.33	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	-3.50	6.97	3.47	11	Pass
	5580	-5.05	6.97	1.92	11	Pass
	5700	-3.61	6.97	3.36	11	Pass
	5720	-6.44	6.97	3.19	11	Pass
802.11n20	5500	-3.55	6.97	3.42	11	Pass
	5580	-4.11	6.97	2.86	11	Pass
	5700	-3.09	6.97	3.88	11	Pass
	5720	-3.04	6.97	4.96	11	Pass
802.11n40	5510	-5.92	3.19	-2.73	11	Pass
	5550	-6.06	3.19	-2.87	11	Pass
	5670	-5.68	3.19	-2.49	11	Pass
	5710	-5.63	3.19	-1.35	11	Pass

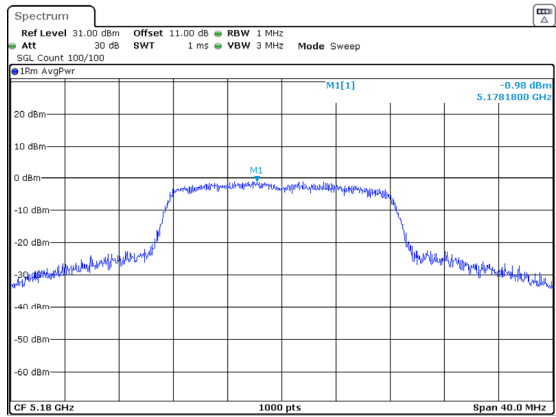
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-1.87	6.97	5.10	30	Pass
	5785	-2.85	6.97	4.12	30	Pass
	5825	-2.24	6.97	4.73	30	Pass
802.11n20	5745	-1.52	6.97	5.45	30	Pass
	5785	-3.75	6.97	3.22	30	Pass
	5825	-3.14	6.97	3.83	30	Pass
802.11n40	5755	-3.83	3.19	-0.64	30	Pass
	5795	-4.20	3.19	-1.01	30	Pass

Result = Reading + Duty Cycle Factor

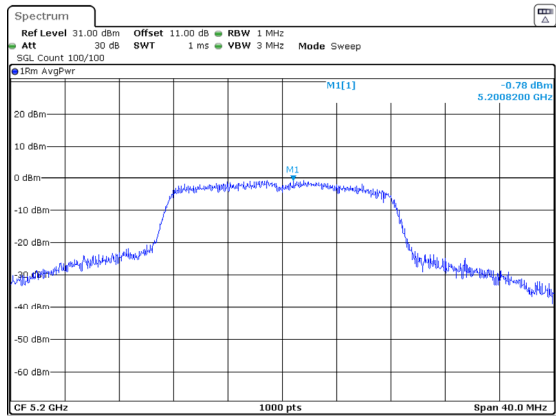
5150-5250MHz

802.11a_5180MHz



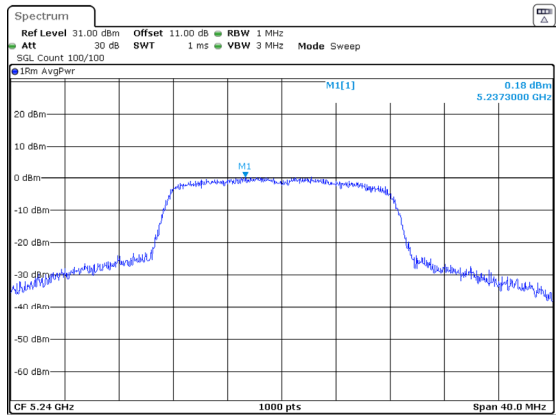
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Date: 3.MAR.2025 14:18:22

802.11a_5200MHz



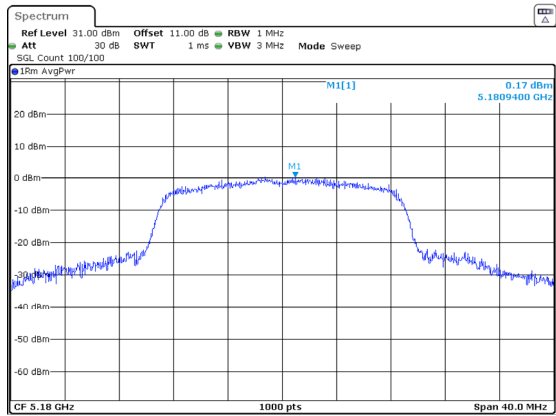
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802.11a_5240MHz



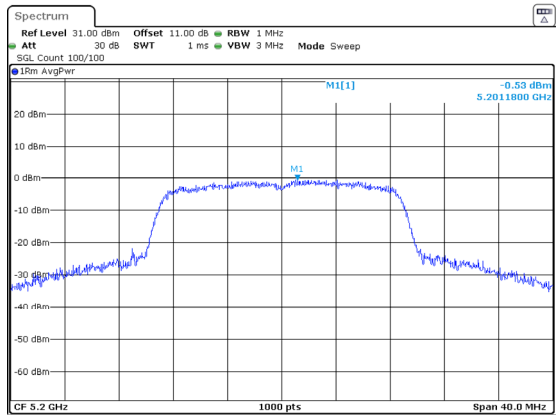
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802.11n20_5180MHz



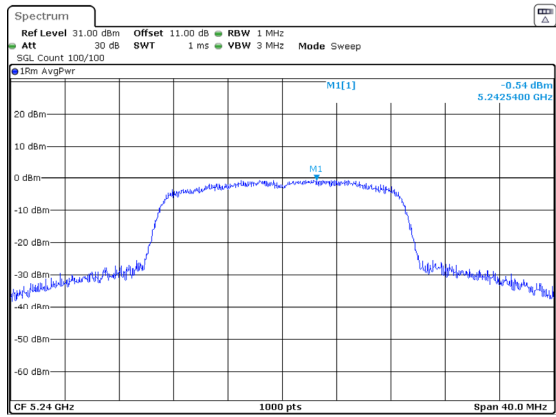
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802.11n20_5200MHz



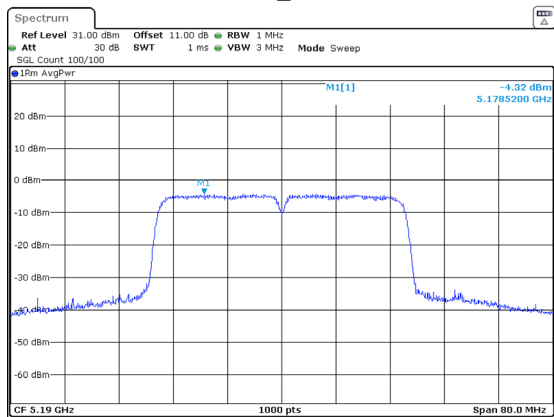
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802.11n20_5240MHz



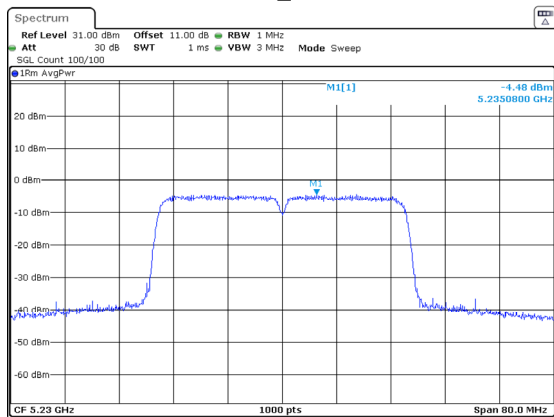
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802.11n40_5190MHz



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Date: 3.MAR.2025 16:12:18

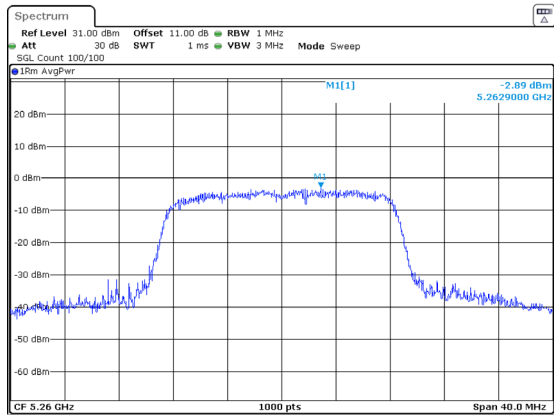
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Date: 3.MAR.2025 16:14:26

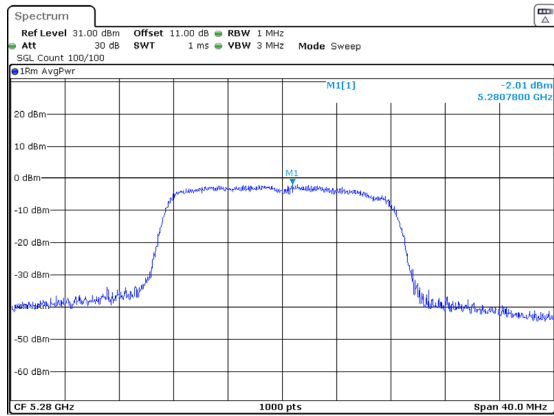
5250-5350MHz

802.11a_5260MHz



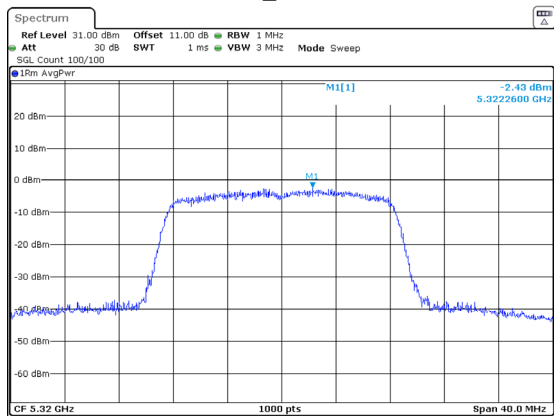
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802.11a_5280MHz



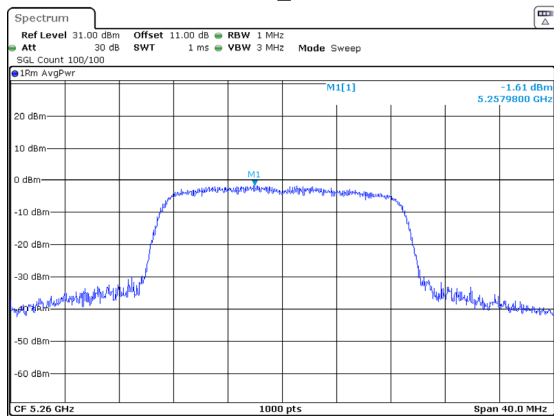
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802.11a_5320MHz



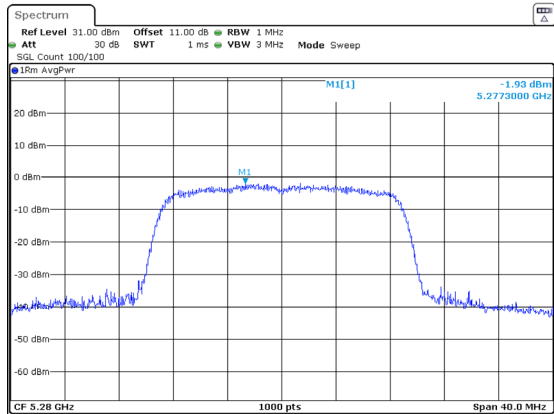
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802.11n20_5260MHz



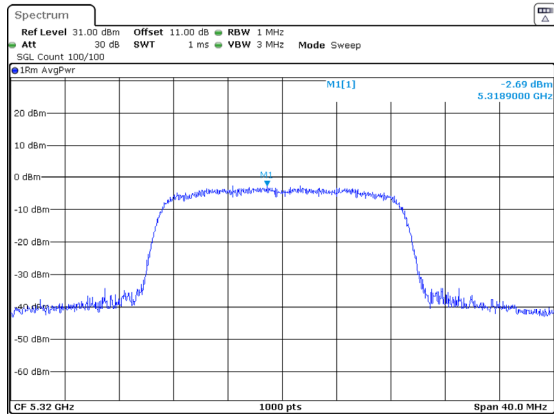
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802.11n20_5280MHz



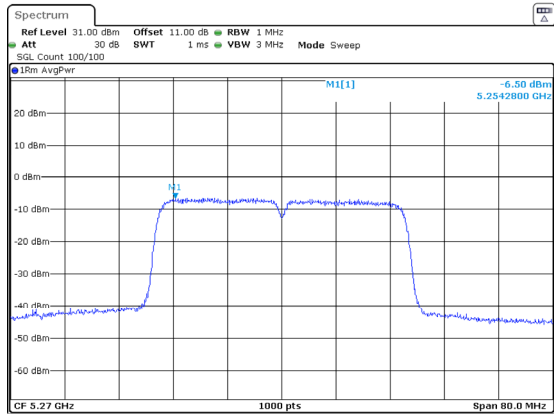
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802.11n20_5320MHz



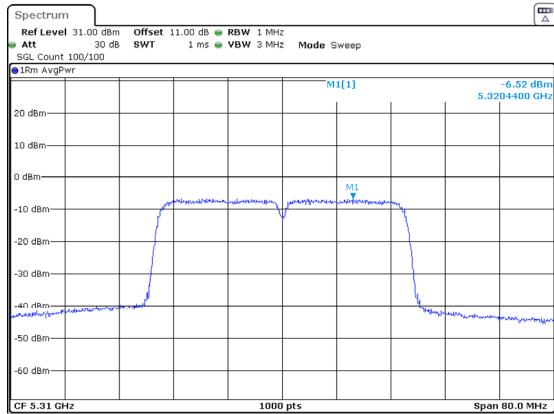
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802.11n40_5270MHz



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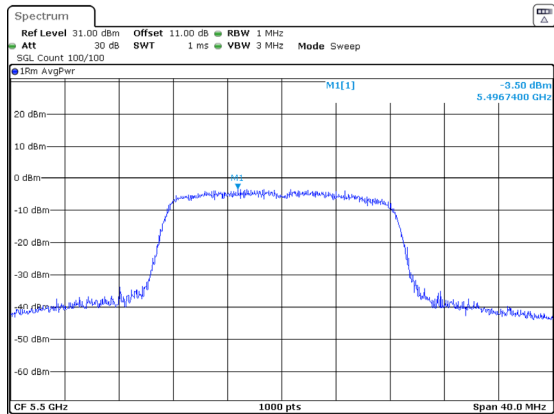
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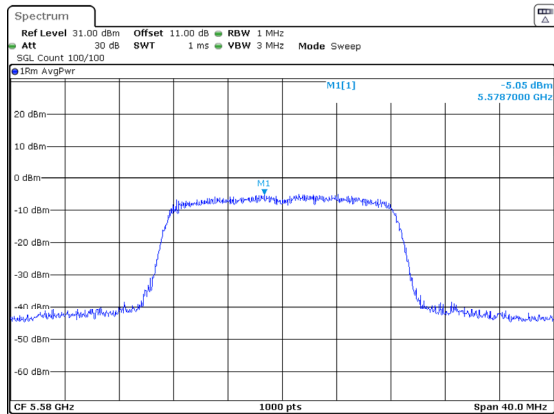
5470-5725MHz

802.11a_5500MHz



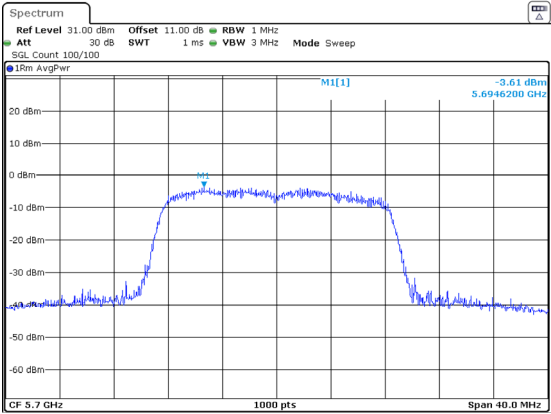
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802.11a_5580MHz



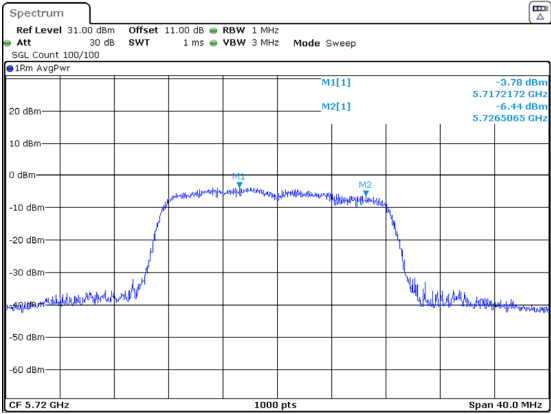
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802.11a_5700MHz



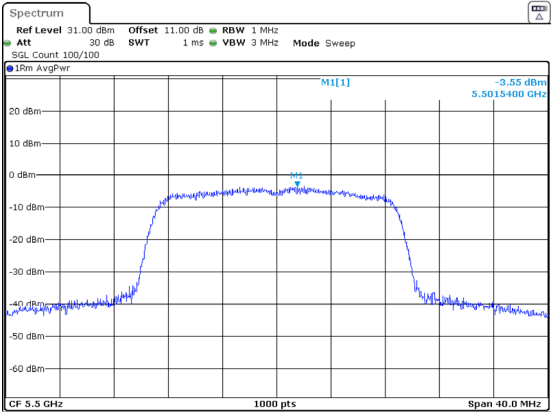
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802.11a_5720MHz



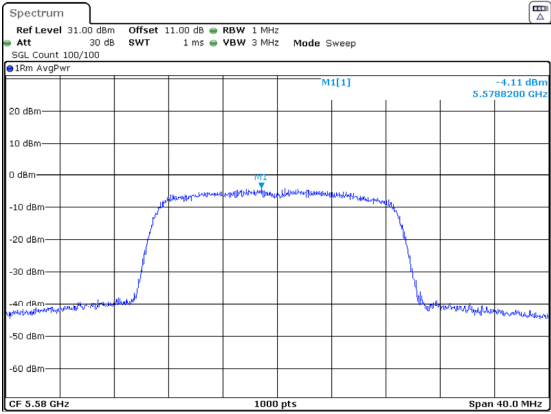
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802.11n20_5500MHz



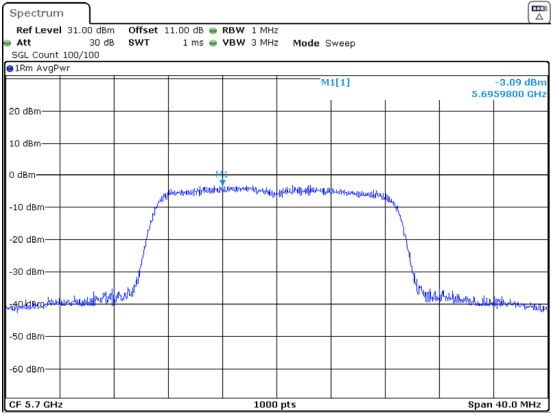
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802.11n20_5580MHz



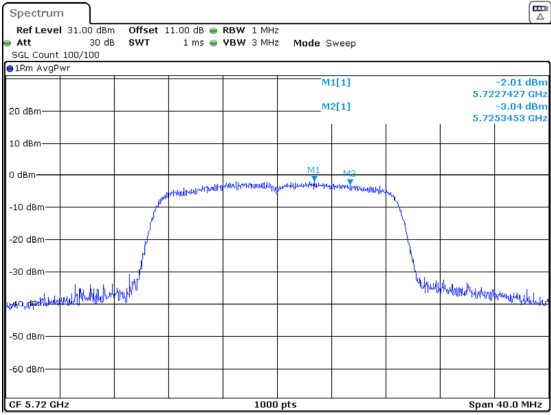
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802.11n20_5700MHz



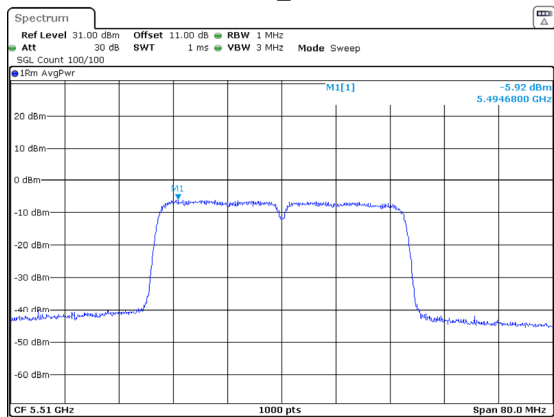
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802.11n20_5720MHz



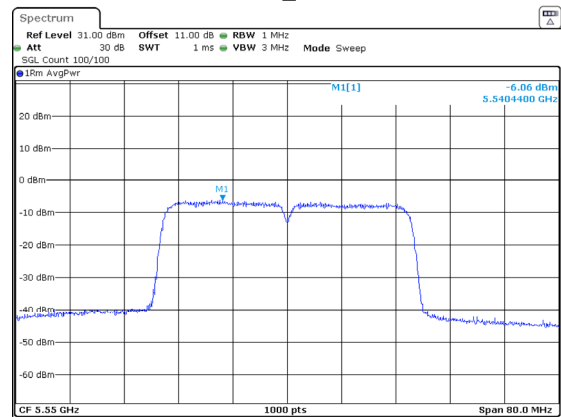
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Date: 3.MAR.2025 15:50:57

802.11n40_5510MHz



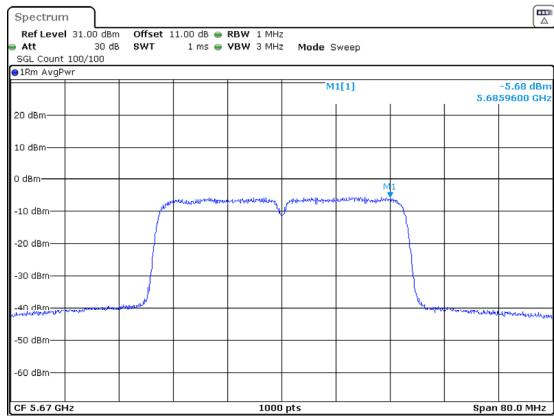
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802.11n40_5550MHz



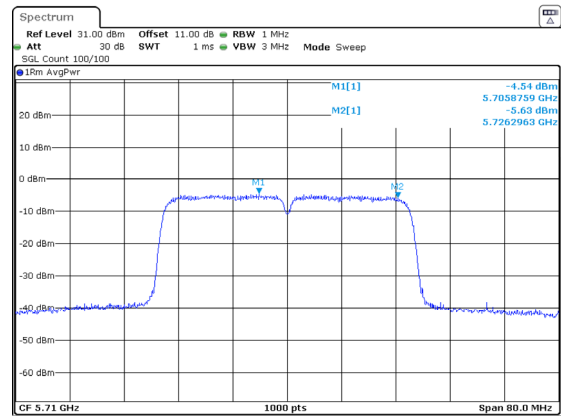
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Date: 3.MAR.2025 16:22:52

802.11n40_5670MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
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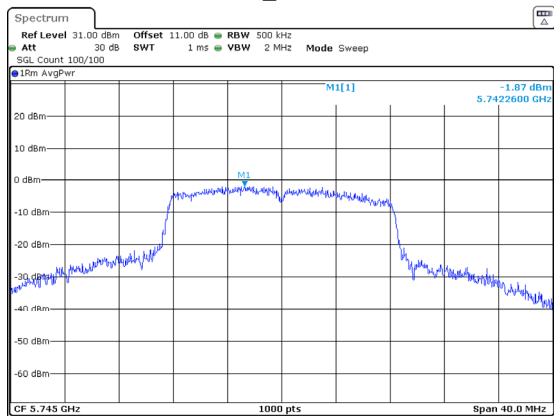
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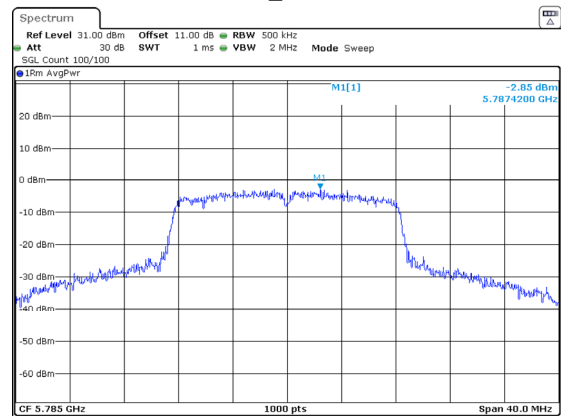
5725-5850MHz

802.11a_5745MHz



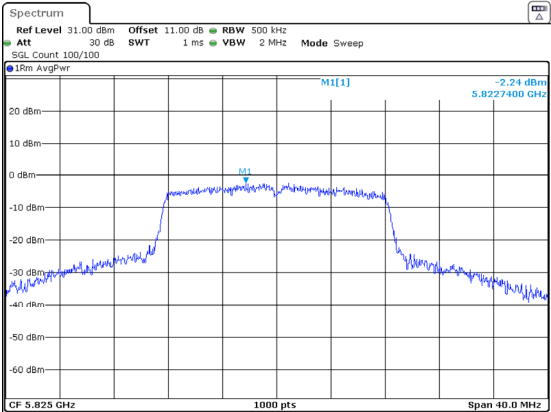
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802.11a_5785MHz



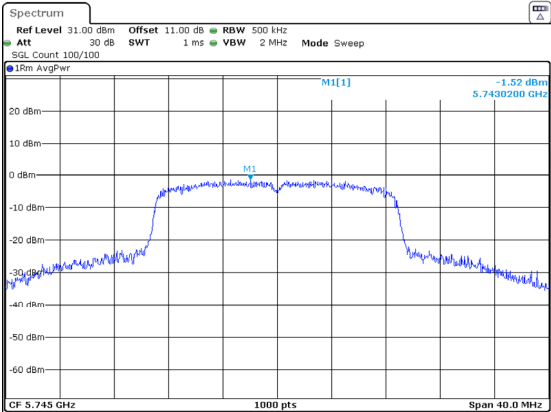
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802.11a_5825MHz



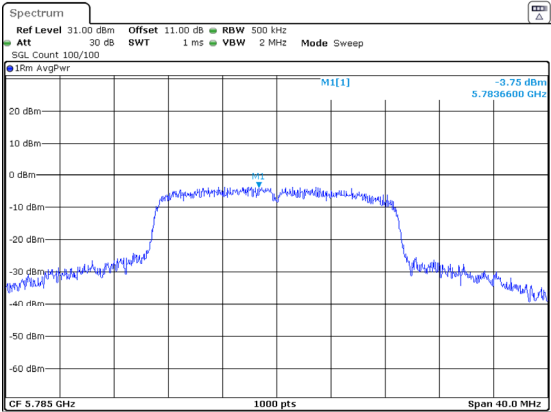
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802.11n20_5745MHz



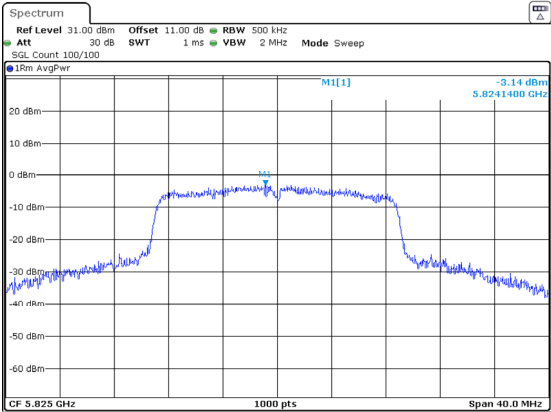
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802.11n20_5785MHz



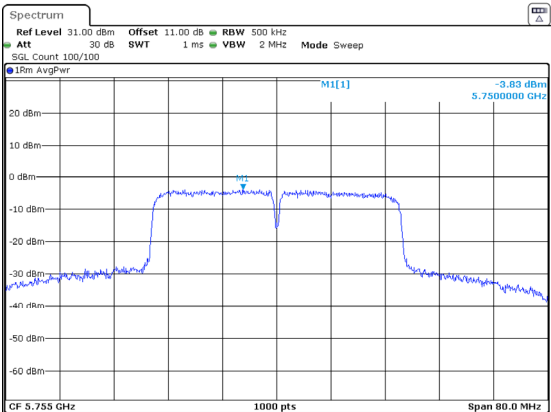
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802.11n20_5825MHz



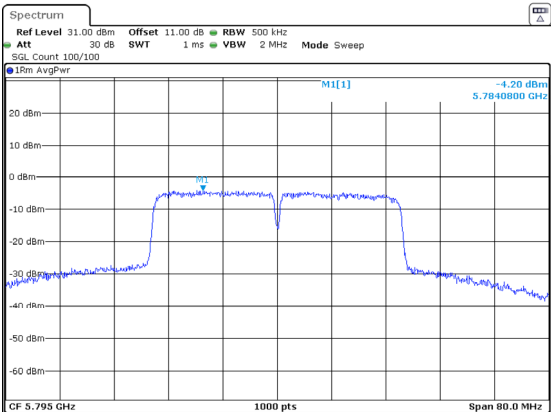
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802.11n40_5755MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:29:54

802.11n40_5795MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 16:37:04

Duty Cycle**Test Information:**

Sample No.:	2XKL-1	Test Date:	2025/03/03
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.8-25.2	Relative Humidity: (%)	42-45	ATM Pressure: (kPa)	101
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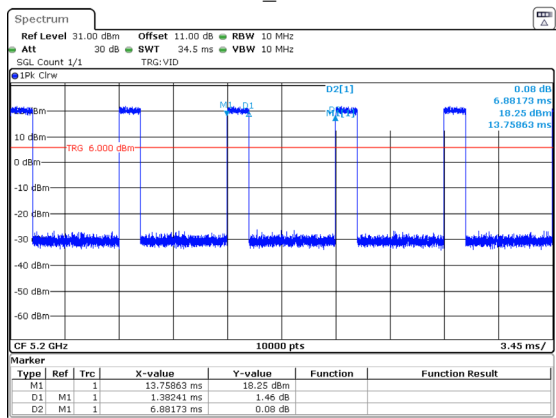
Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.382	6.882	20.08	6.97	724	1
802.11n20	5200	1.297	6.450	20.11	6.97	771	1
802.11n40	5190	2.458	5.123	47.98	3.19	407	0.500

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

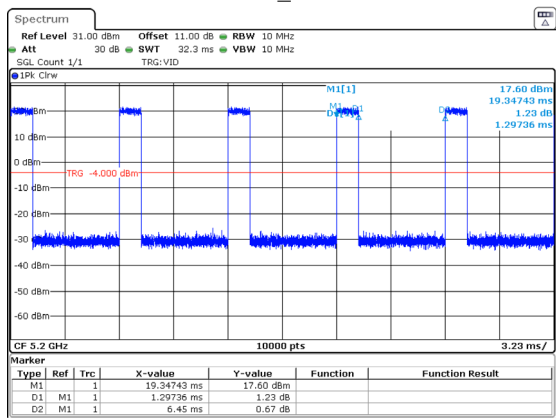
5150-5250MHz

802.11a_5200MHz



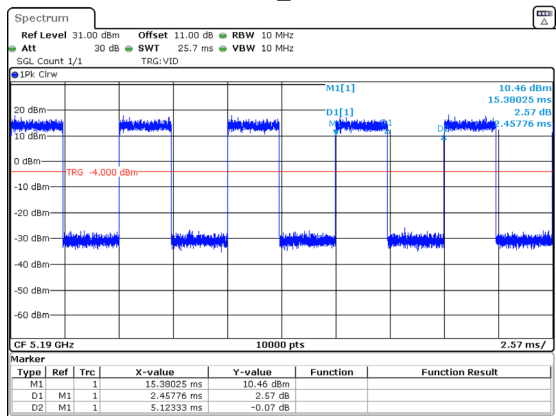
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Date: 3.MAR.2025 13:56:41

802.11n20_5200MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 14:00:57

802.11n40_5190MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 3.MAR.2025 14:02:19

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

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (mW)
			(dBi)	(dBd)	(dBm)	(mW)		
5.2G Wi-Fi	5180-5240	17.5	3.58	1.43	18.93	78.16	0.2	768
5.3G Wi-Fi	5260-5320	15.5	3.58	1.43	16.93	49.32	0.2	768
5.6G Wi-Fi	5500-5720	14.0	3.58	1.43	15.43	34.91	0.2	768
5.8G Wi-Fi	5745-5825	18.5	3.58	1.43	19.93	98.40	0.2	768

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.

3. 0dBd=2.15dBi

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 2501P26598E-RF External photo and 2501P26598E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501P26598E-RFB Test Setup photo.

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