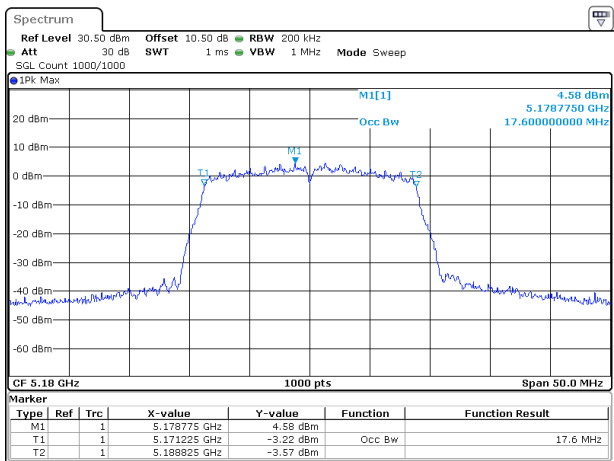
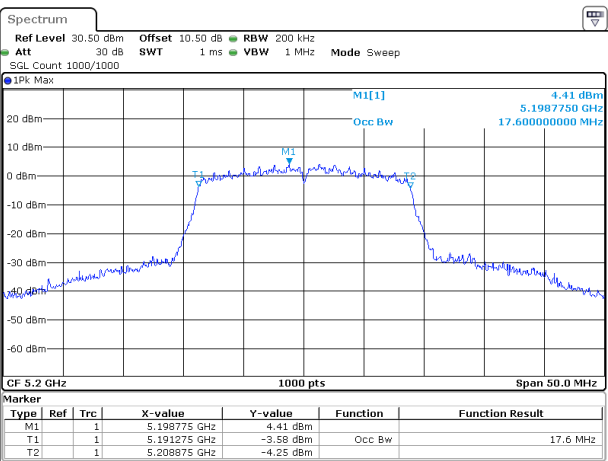


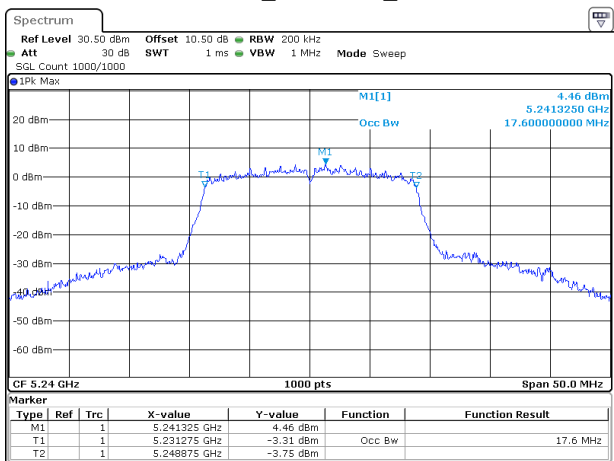
802.11ac20_5180MHz_Chain 0



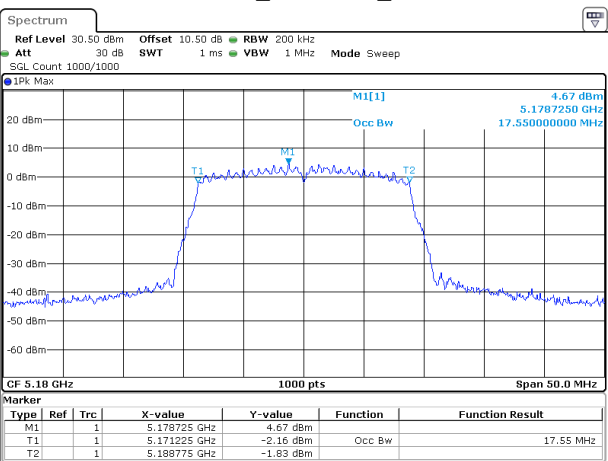
802.11ac20_5200MHz_Chain 0



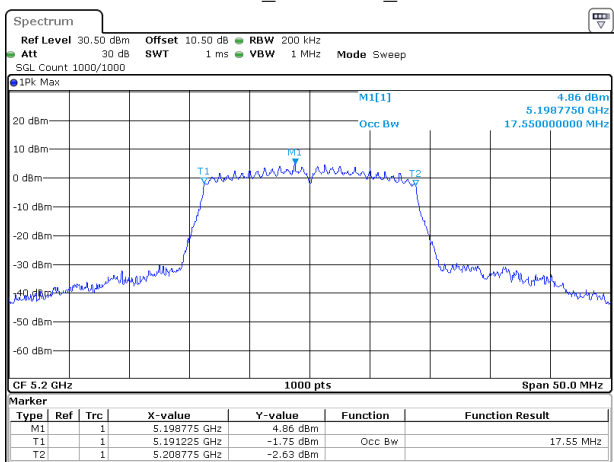
802.11ac20_5240MHz_Chain 0



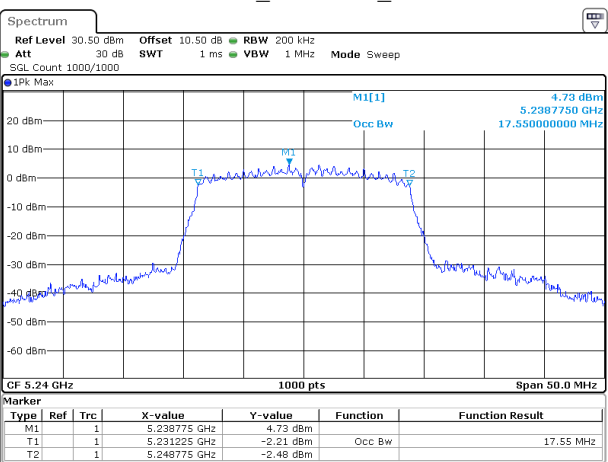
802.11ac20_5180MHz_Chain 1



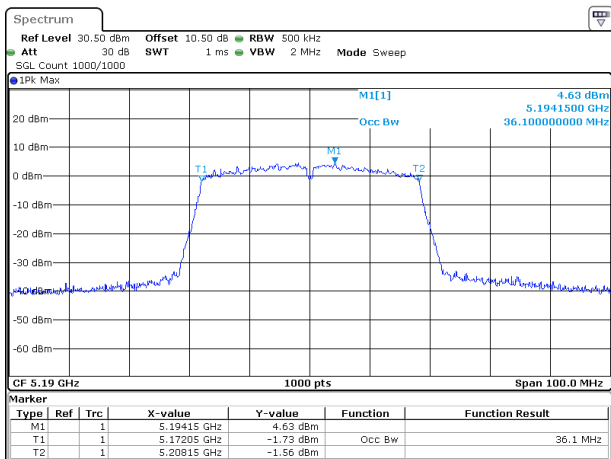
802.11ac20_5200MHz_Chain 1



802.11ac20_5240MHz_Chain 1

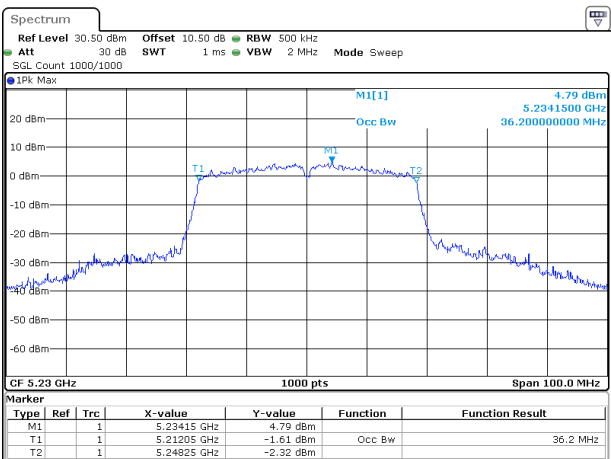


802.11ac40_5190MHz_Chain 0



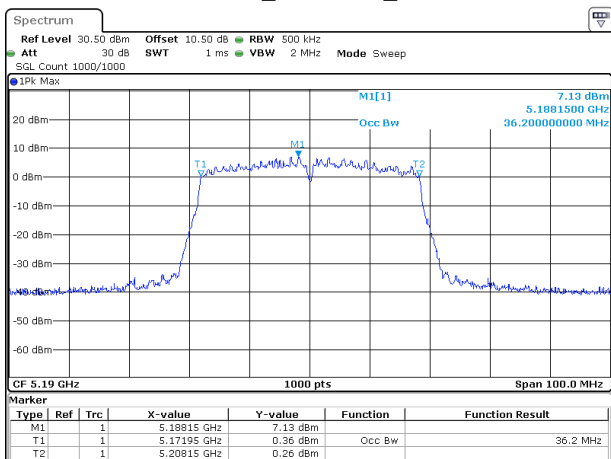
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:08:47

802.11ac40_5230MHz_Chain 0



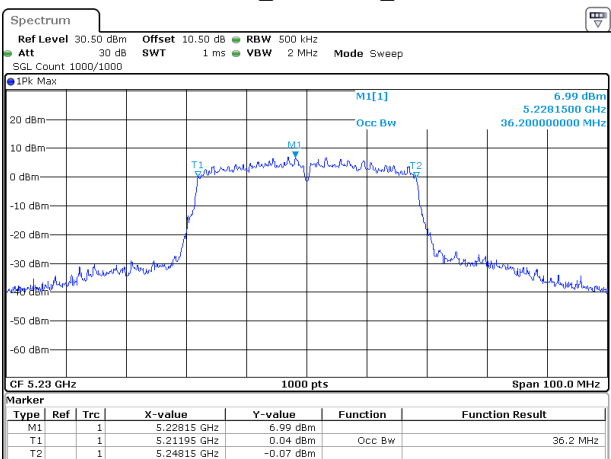
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Date: 2.APR.2025 16:10:09

802.11ac40_5190MHz_Chain 1



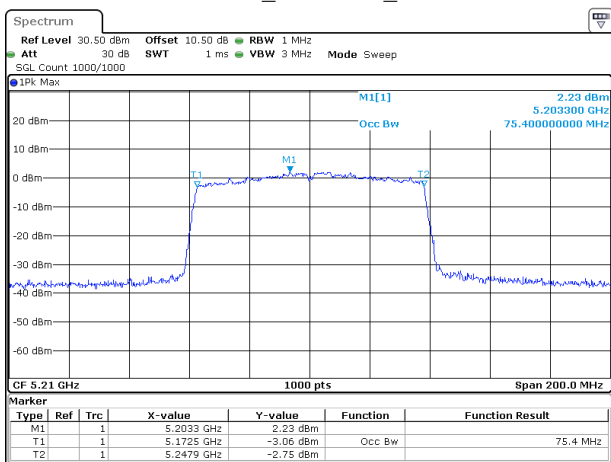
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802.11ac40_5230MHz_Chain 1



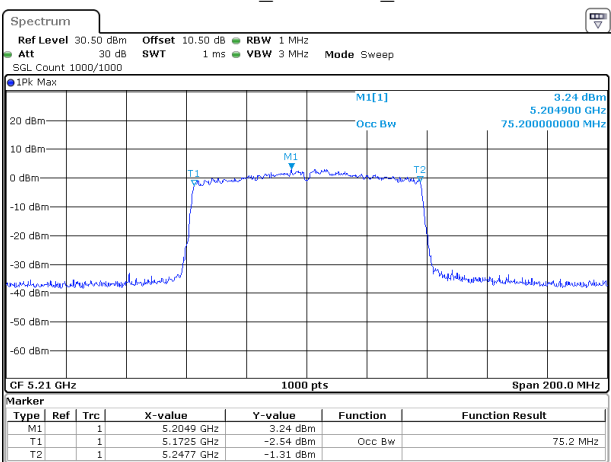
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:37:49

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 11.APR.2025 09:25:59

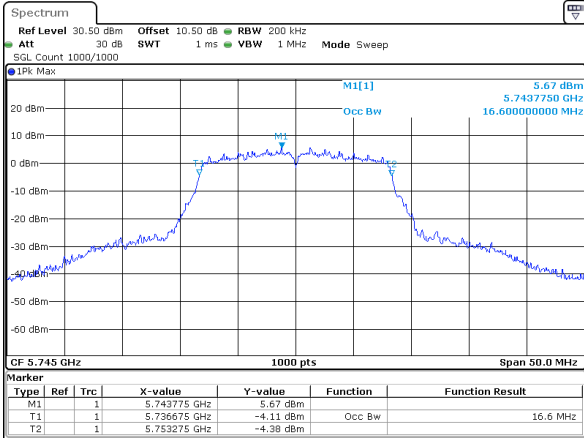
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 11.APR.2025 09:27:45

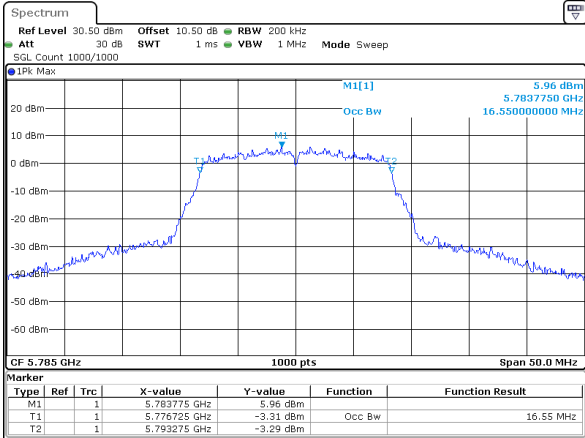
5725-5850MHz

802.11a_5745MHz_Chain 0



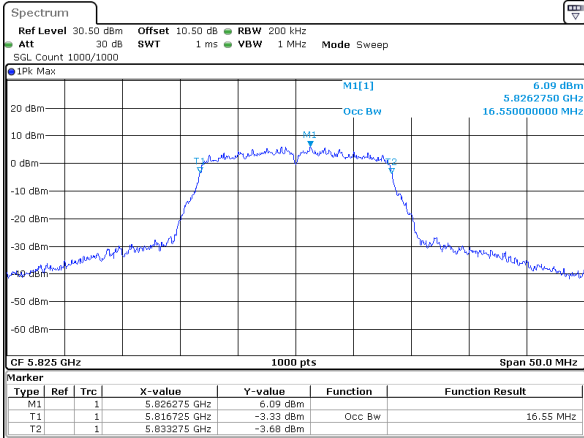
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Date: 2.APR.2025 16:52:47

802.11a_5785MHz_Chain 0



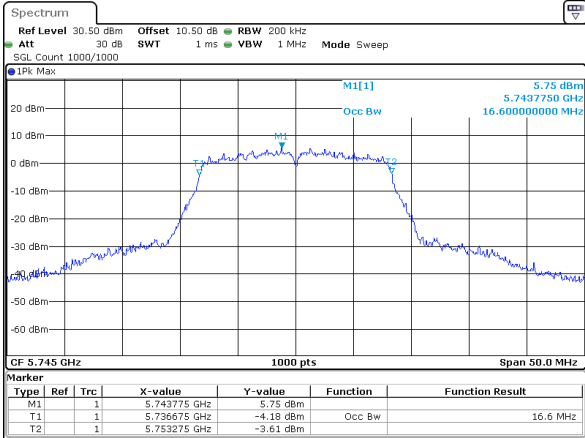
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Date: 2.APR.2025 16:55:09

802.11a_5825MHz_Chain 0



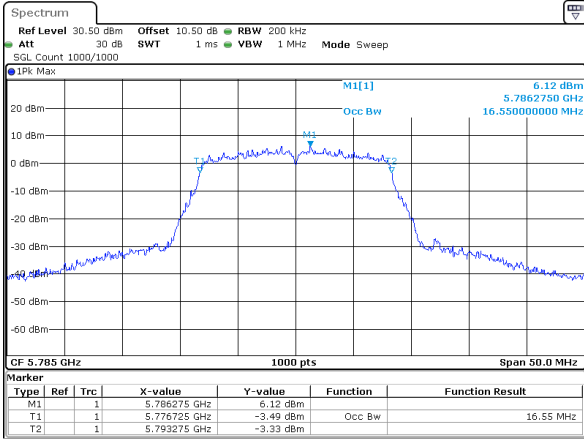
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802.11a_5745MHz_Chain 1



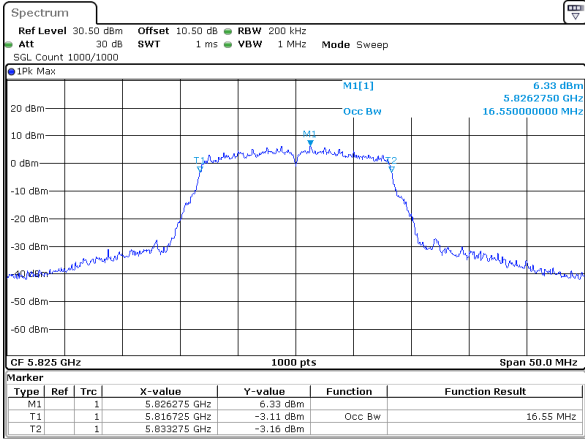
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802.11a_5785MHz_Chain 1



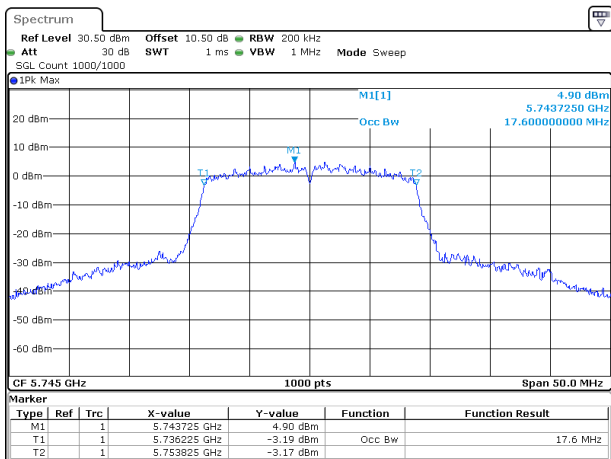
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802.11a_5825MHz_Chain 1

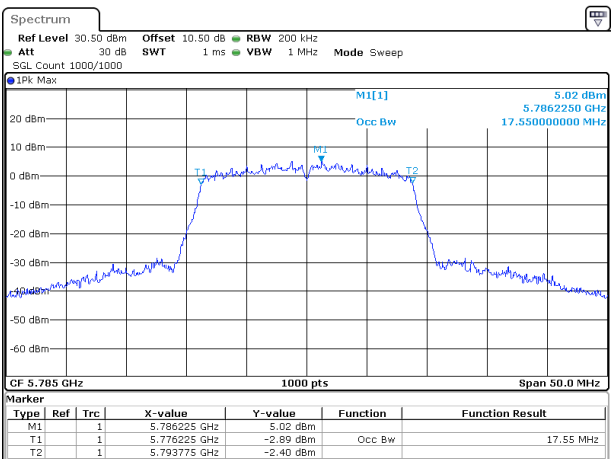


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Date: 2.APR.2025 17:17:22

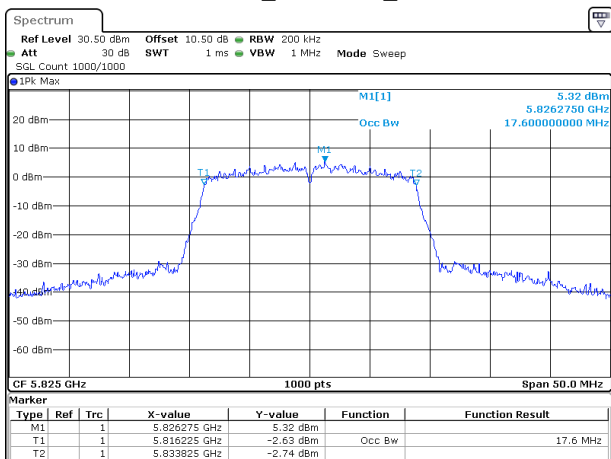
802.11ac20_5745MHz_Chain 0



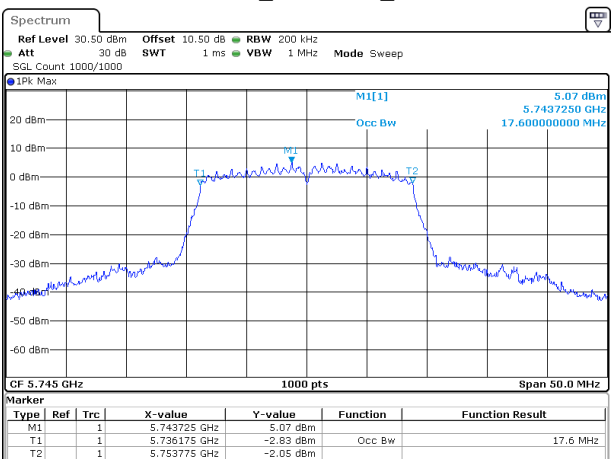
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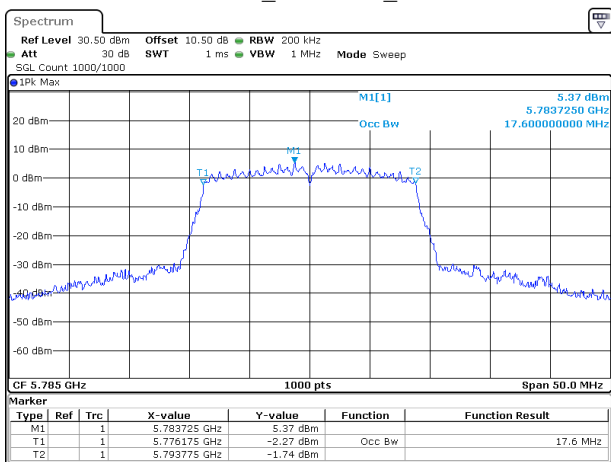
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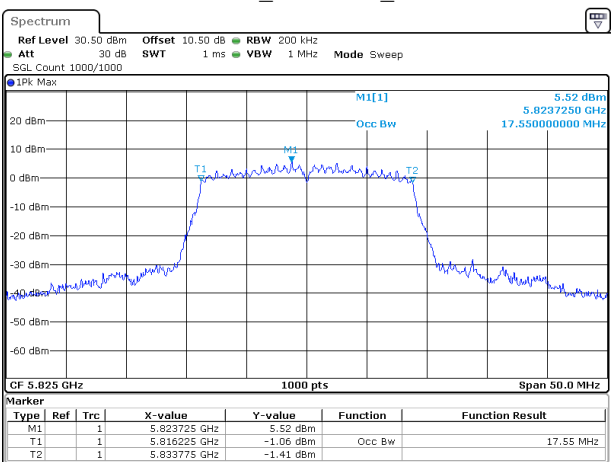
802.11ac20_5745MHz_Chain 1



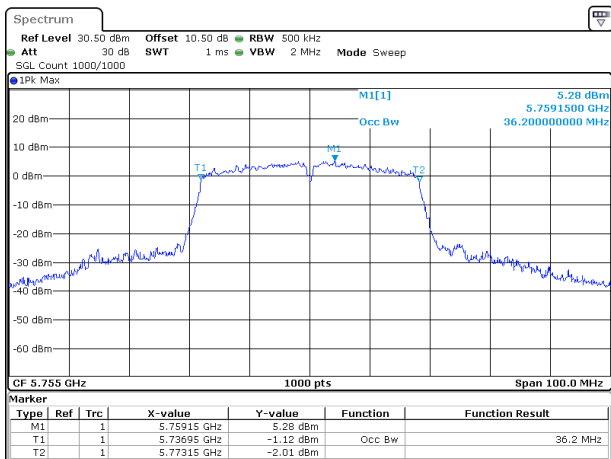
802.11ac20_5785MHz_Chain 1



802.11ac20_5825MHz_Chain 1

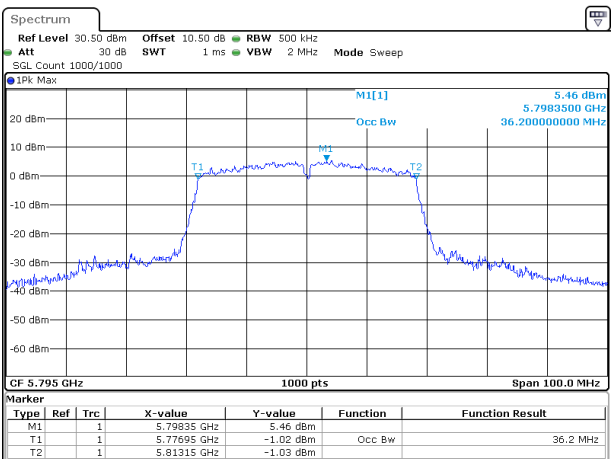


802.11ac40_5755MHz_Chain 0



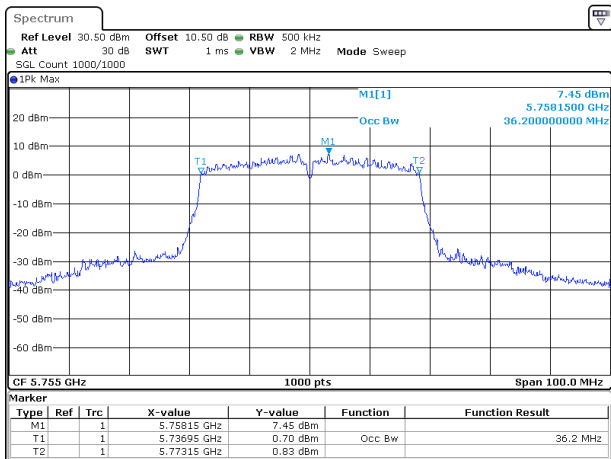
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Date: 2.APR.2025 17:05:44

802.11ac40_5795MHz_Chain 0



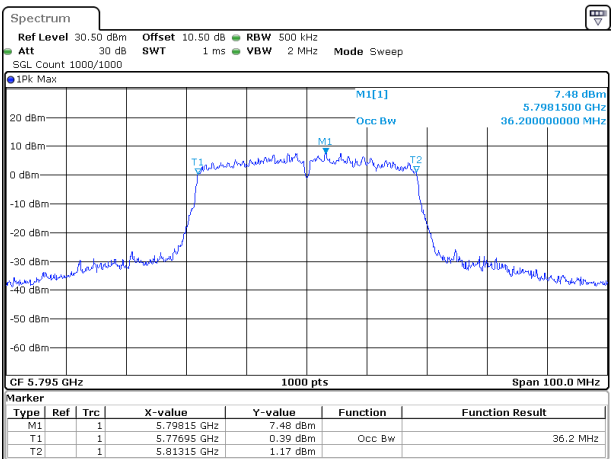
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802.11ac40_5755MHz_Chain 1



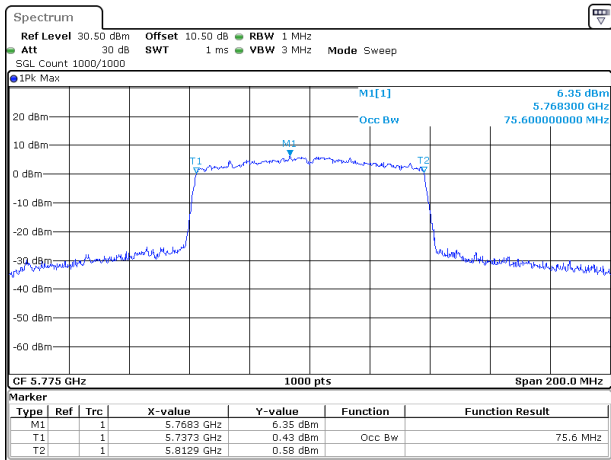
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Date: 2.APR.2025 17:31:24

802.11ac40_5795MHz_Chain 1



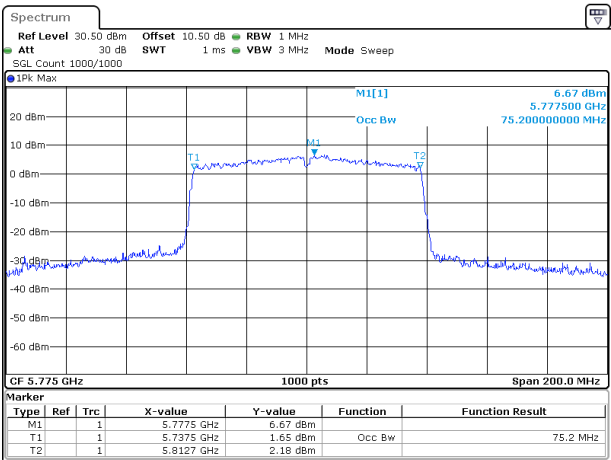
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:32:40

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:08:41

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:34:09

Maximum Conducted Output Power**Test Information:**

Sample No.:	2ZEA-9	Test Date:	2025/03/29~2025/04/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3-25.7	Relative Humidity: (%)	35-39	ATM Pressure: (kPa)	101.3-101.5
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Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	14.53	24	Pass
		5200	14.45	24	Pass
		5240	14.3	24	Pass
	Chain 1	5180	14.86	24	Pass
		5200	14.62	24	Pass
		5240	14.67	24	Pass
802.11ac20	Chain 0	5180	11.93	24	Pass
		5200	11.59	24	Pass
		5240	11.56	24	Pass
	Chain 1	5180	12.05	24	Pass
		5200	12.04	24	Pass
		5240	11.91	24	Pass
	Chain 0+Chain 1	5180	15.00	24	Pass
		5200	14.83	24	Pass
		5240	14.75	24	Pass
802.11ac40	Chain 0	5190	13.64	24	Pass
		5230	13.71	24	Pass
	Chain 1	5190	13.94	24	Pass
		5230	13.84	24	Pass
	Chain 0+Chain 1	5190	16.80	24	Pass
		5230	16.79	24	Pass
802.11ac80	Chain 0	5210	10.24	24	Pass
	Chain 1	5210	10.49	24	Pass
	Chain 0+Chain 1	5210	13.38	24	Pass

Note: For 802.11ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain0 Gain:	1.07	dBi	Directional gain:	4.08	dBi
Chain1 Gain:	1.07	dBi			

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	14.86	30	Pass
		5785	15.29	30	Pass
		5825	15.41	30	Pass
	Chain 1	5745	14.89	30	Pass
		5785	15.33	30	Pass
		5825	15.52	30	Pass
802.11ac20	Chain 0	5745	13.95	30	Pass
		5785	14.27	30	Pass
		5825	14.43	30	Pass
	Chain 1	5745	14.18	30	Pass
		5785	14.54	30	Pass
		5825	14.74	30	Pass
	Chain 0+Chain 1	5745	17.08	30	Pass
		5785	17.42	30	Pass
		5825	17.60	30	Pass
802.11ac40	Chain 0	5755	14.28	30	Pass
		5795	14.48	30	Pass
	Chain 1	5755	14.31	30	Pass
		5795	14.64	30	Pass
	Chain 0+Chain 1	5755	17.31	30	Pass
		5795	17.57	30	Pass
802.11ac80	Chain 0	5775	14.17	30	Pass
	Chain 1	5775	14.16	30	Pass
	Chain 0+Chain 1	5775	17.18	30	Pass

Note: For 802.11ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain0 Gain:	1.13	dBi	Directional gain:	4.01	dBi
Chain1 Gain:	0.87	dBi			

Power Spectral Density**Test Information:**

Sample No.:	2ZEA-9	Test Date:	2025/03/29~2025/04/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3-25.7	Relative Humidity: (%)	35-39	ATM Pressure: (kPa)	101.3-101.5
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Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5180	4.43	0.17	4.60	11	Pass
		5200	4.31	0.17	4.48	11	Pass
		5240	4.07	0.17	4.24	11	Pass
	Chain 1	5180	4.96	0.17	5.13	11	Pass
		5200	4.38	0.17	4.55	11	Pass
		5240	4.51	0.17	4.68	11	Pass
802.11ac20	Chain 0	5180	1.52	0.18	1.70	11	Pass
		5200	1.01	0.18	1.19	11	Pass
		5240	1.22	0.18	1.40	11	Pass
	Chain 1	5180	2.02	0.18	2.20	11	Pass
		5200	1.76	0.18	1.94	11	Pass
		5240	1.63	0.18	1.81	11	Pass
	Chain 0+Chain 1	5180	4.79	0.18	4.97	11	Pass
		5200	4.41	0.18	4.59	11	Pass
		5240	4.44	0.18	4.62	11	Pass
802.11ac40	Chain 0	5190	0.27	0.35	0.62	11	Pass
		5230	0.26	0.35	0.61	11	Pass
	Chain 1	5190	0.48	0.35	0.83	11	Pass
		5230	0.61	0.35	0.96	11	Pass
	Chain 0+Chain 1	5190	3.39	0.35	3.74	11	Pass
		5230	3.45	0.35	3.80	11	Pass
802.11ac80	Chain 0	5210	-6.83	0.66	-6.17	11	Pass
	Chain 1	5210	-6.15	0.66	-5.49	11	Pass
	Chain 0+Chain 1	5210	-3.47	0.66	-2.81	11	Pass

Note:

1. Result = Reading + Duty Cycle Factor

2. For 802.11ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data; N_{ANT} = the total number of antennas $g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not; G_k is the gain in dBi of the k_{th} antenna.

Chain0 Gain:	1.07	dBi	Directional gain:	4.08	dBi
Chain1 Gain:	1.07	dBi			

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	Chain 0	5745	2.00	0.17	2.17	30	Pass
		5785	2.08	0.17	2.25	30	Pass
		5825	2.52	0.17	2.69	30	Pass
	Chain 1	5745	2.12	0.17	2.29	30	Pass
		5785	2.23	0.17	2.40	30	Pass
		5825	2.59	0.17	2.76	30	Pass
802.11ac20	Chain 0	5745	0.63	0.18	0.81	30	Pass
		5785	1.05	0.18	1.23	30	Pass
		5825	1.38	0.18	1.56	30	Pass
	Chain 1	5745	1.08	0.18	1.26	30	Pass
		5785	1.26	0.18	1.44	30	Pass
		5825	1.83	0.18	2.01	30	Pass
	Chain 0+Chain 1	5745	3.87	0.18	4.05	30	Pass
		5785	4.17	0.18	4.35	30	Pass
		5825	4.62	0.18	4.80	30	Pass
802.11ac40	Chain 0	5755	-2.25	0.35	-1.90	30	Pass
		5795	-2.46	0.35	-2.11	30	Pass
	Chain 1	5755	-2.21	0.35	-1.86	30	Pass
		5795	-1.93	0.35	-1.58	30	Pass
	Chain 0+Chain 1	5755	0.78	0.35	1.13	30	Pass
		5795	0.82	0.35	1.17	30	Pass
802.11ac80	Chain 0	5775	-5.10	0.66	-4.44	30	Pass
	Chain 1	5775	-4.89	0.66	-4.23	30	Pass
	Chain 0+Chain 1	5775	-1.98	0.66	-1.32	30	Pass

Note:

1. Result = Reading + Duty Cycle Factor

2. For 802.11ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

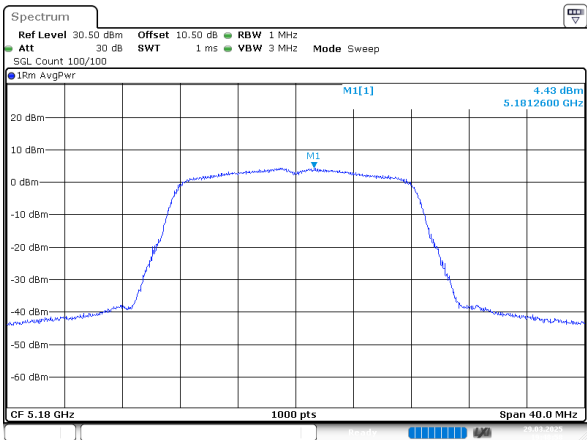
Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data; N_{ANT} = the total number of antennas $g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not; G_k is the gain in dBi of the k_{th} antenna.

Chain0 Gain:	1.13	dBi	Directional gain:	4.01	dBi
Chain1 Gain:	0.87	dBi			

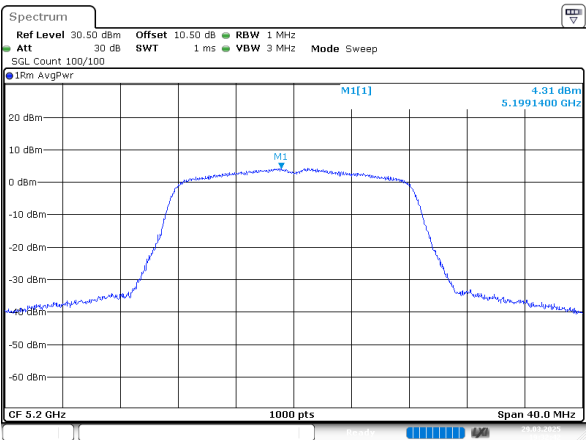
5150-5250MHz

802.11a_5180MHz_Chain 0



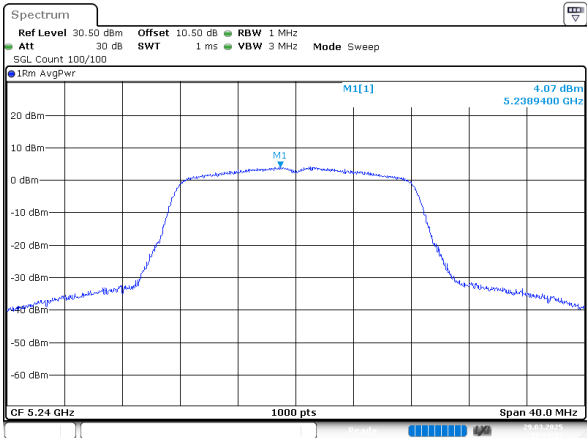
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Date: 29.MAR.2025 19:48:59

802.11a_5200MHz_Chain 0



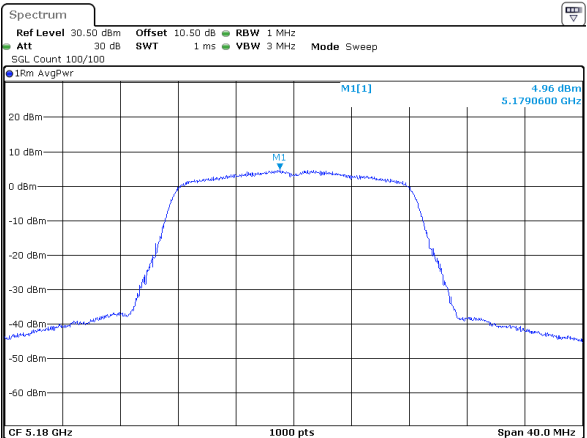
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Date: 29.MAR.2025 19:32:43

802.11a_5240MHz_Chain 0



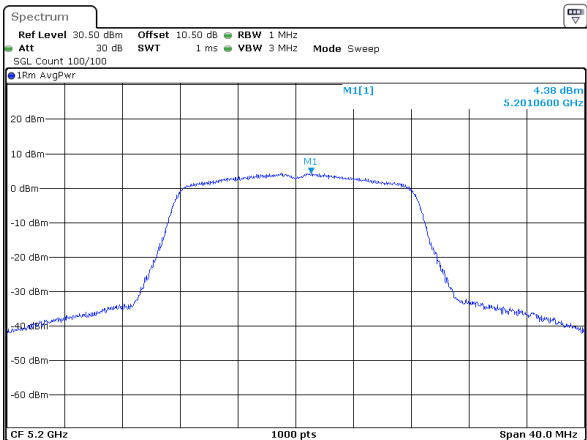
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Date: 29.MAR.2025 19:34:14

802.11a_5180MHz_Chain 1



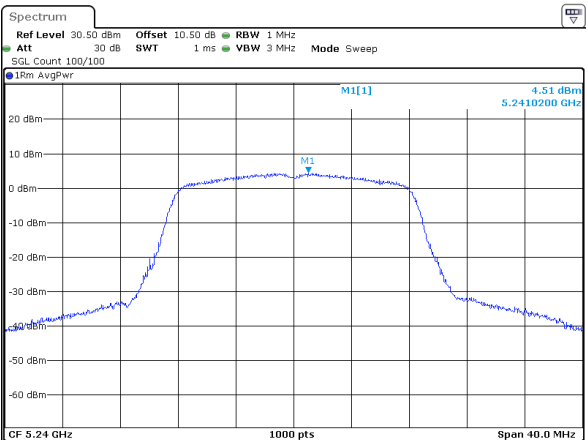
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Date: 2.APR.2025 16:22:36

802.11a_5200MHz_Chain 1



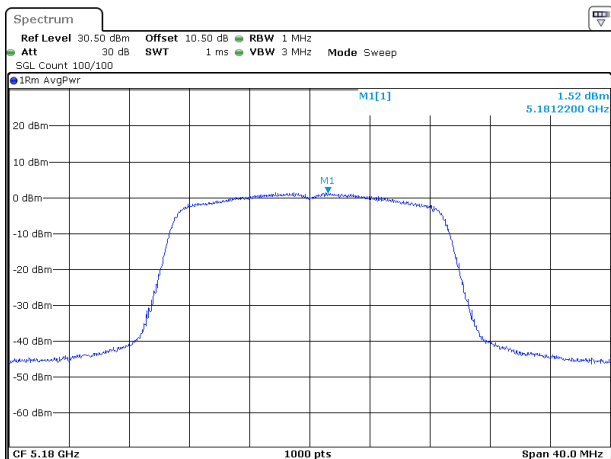
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Date: 2.APR.2025 16:24:55

802.11a_5240MHz_Chain 1



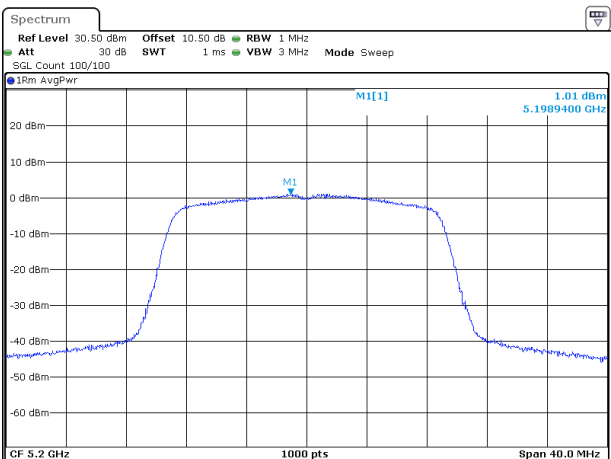
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:27:09

802.11ac20_5180MHz_Chain 0



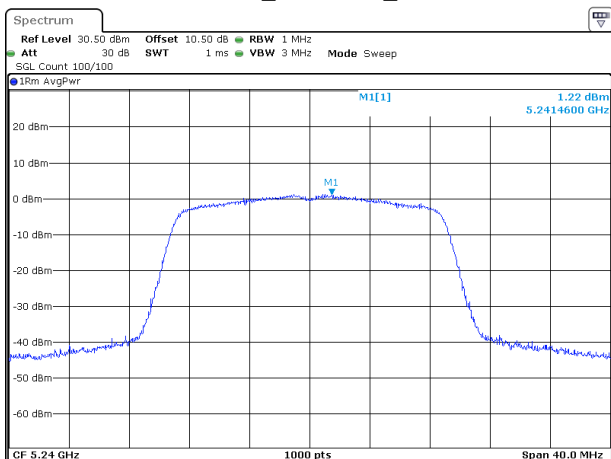
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 8.APR.2025 11:33:59

802.11ac20_5200MHz_Chain 0



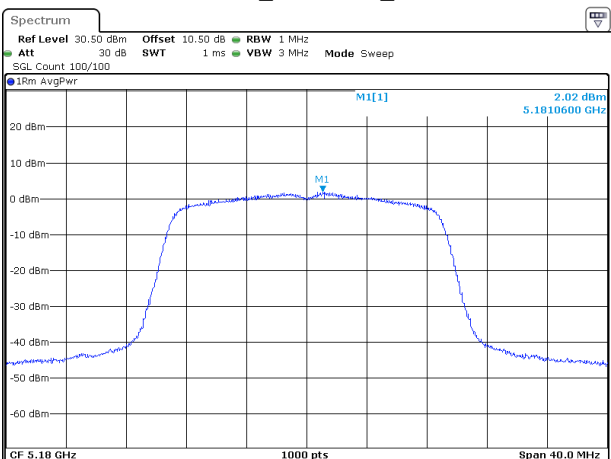
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 8.APR.2025 11:34:40

802.11ac20_5240MHz_Chain 0



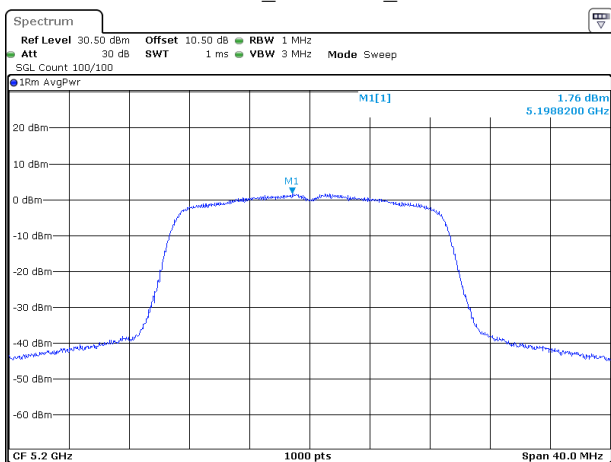
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Date: 8.APR.2025 11:35:13

802.11ac20_5180MHz_Chain 1



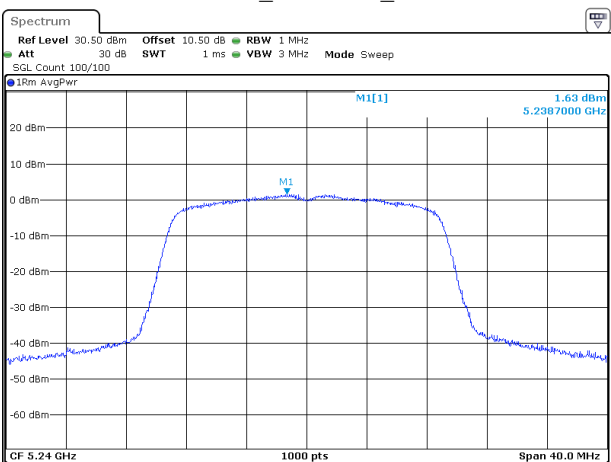
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Date: 8.APR.2025 11:37:00

802.11ac20_5200MHz_Chain 1



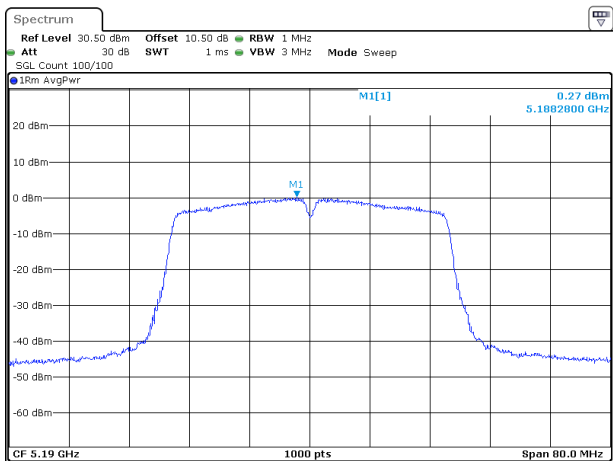
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Date: 8.APR.2025 11:37:35

802.11ac20_5240MHz_Chain 1



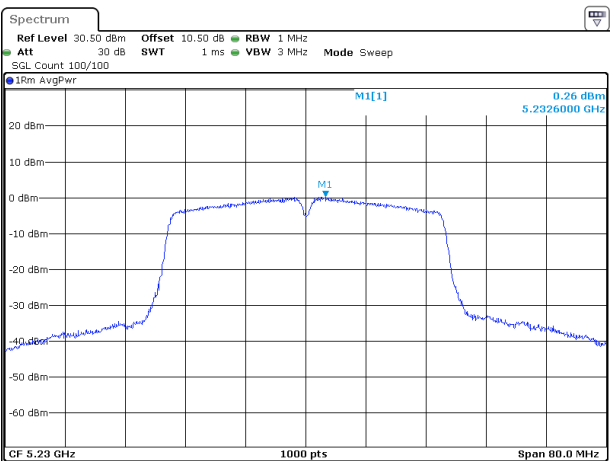
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 8.APR.2025 11:38:13

802.11ac40_5190MHz_Chain 0



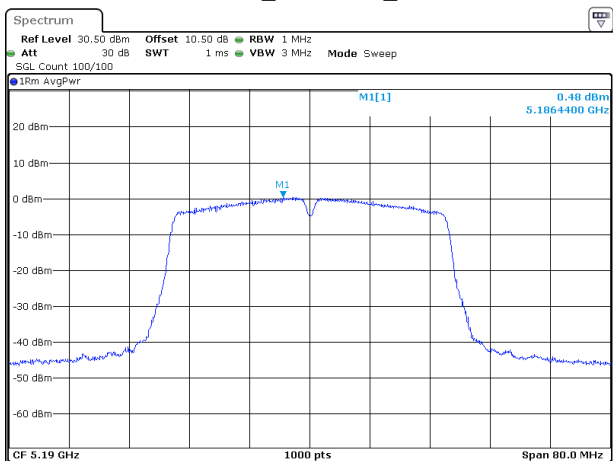
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:09:04

802.11ac40_5230MHz_Chain 0



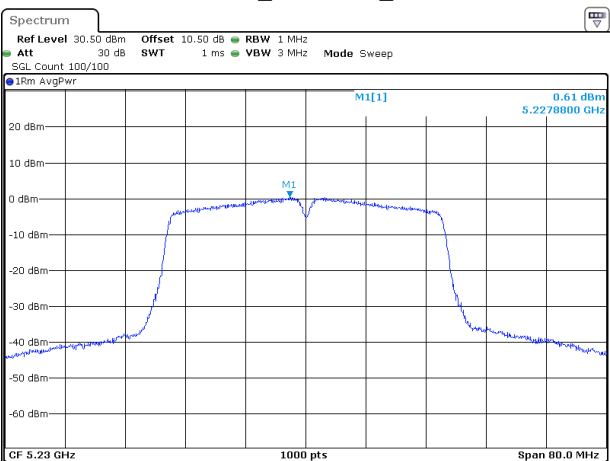
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Date: 2.APR.2025 16:10:27

802.11ac40_5190MHz_Chain 1



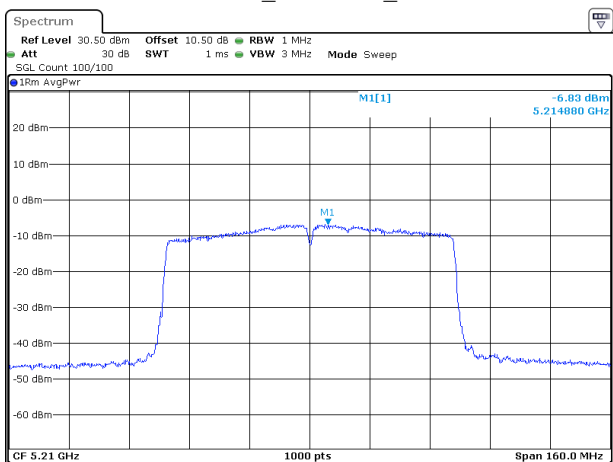
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Date: 2.APR.2025 16:36:12

802.11ac40_5230MHz_Chain 1



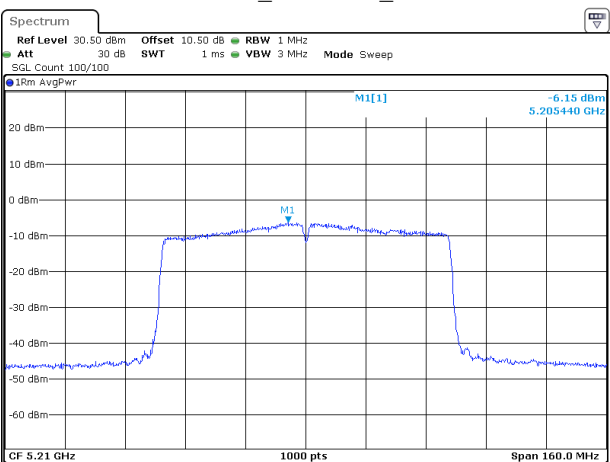
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:38:08

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 11.APR.2025 09:26:15

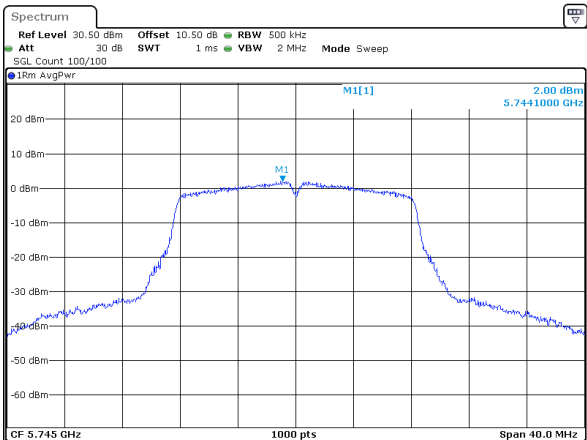
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 11.APR.2025 09:28:02

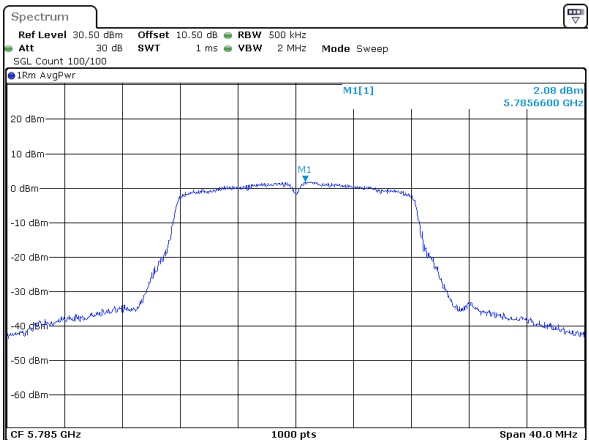
5725-5850MHz

802.11a_5745MHz_Chain 0



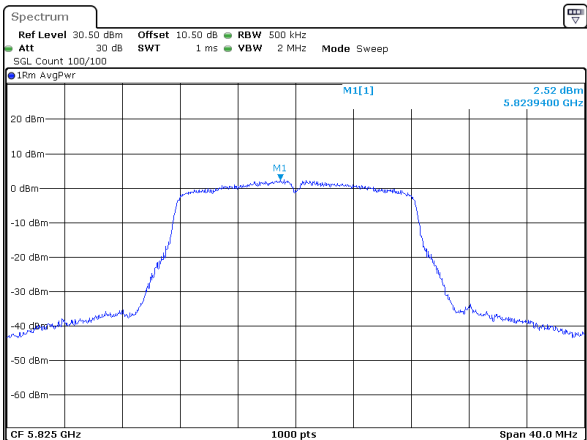
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802.11a_5785MHz_Chain 0



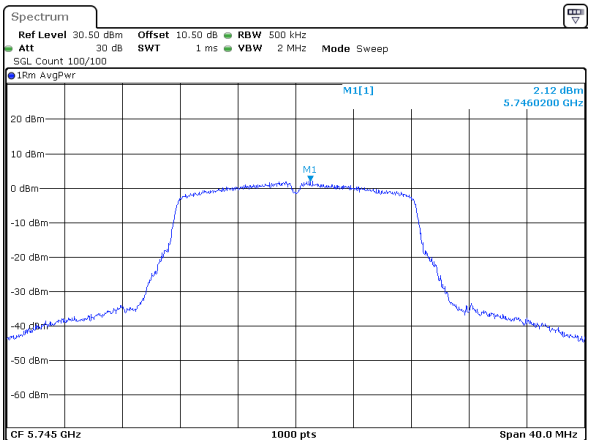
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:55:28

802.11a_5825MHz_Chain 0



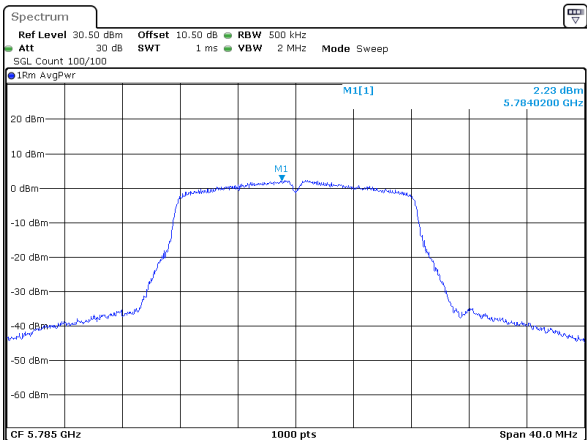
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 16:57:18

802.11a_5745MHz_Chain 1



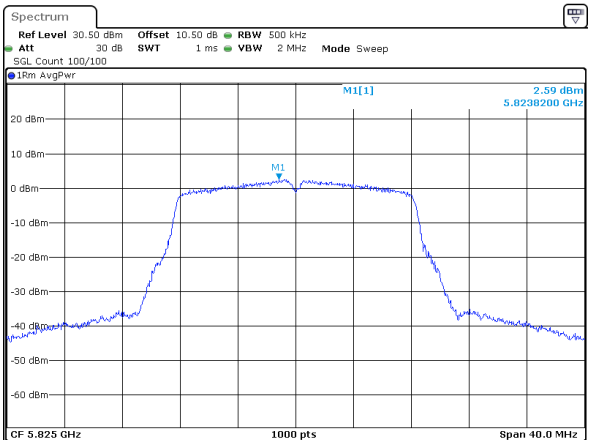
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802.11a_5785MHz_Chain 1



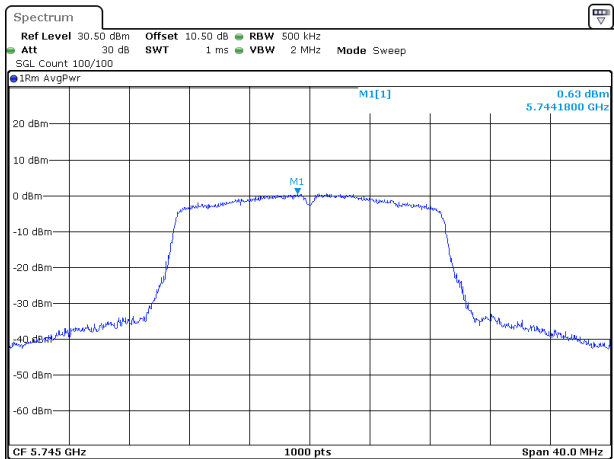
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Date: 2.APR.2025 17:14:38

802.11a_5825MHz_Chain 1



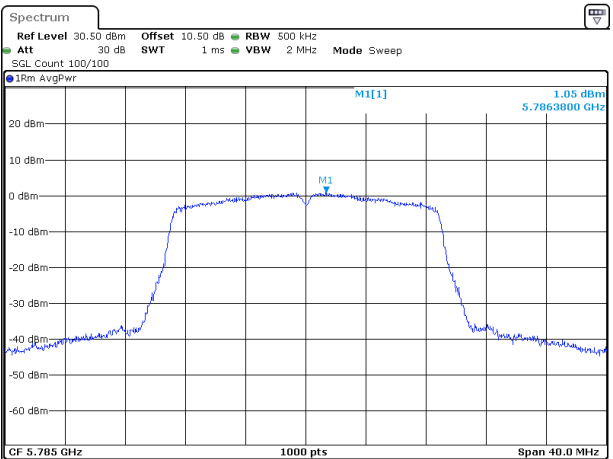
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Date: 2.APR.2025 17:17:42

802.11ac20_5745MHz_Chain 0



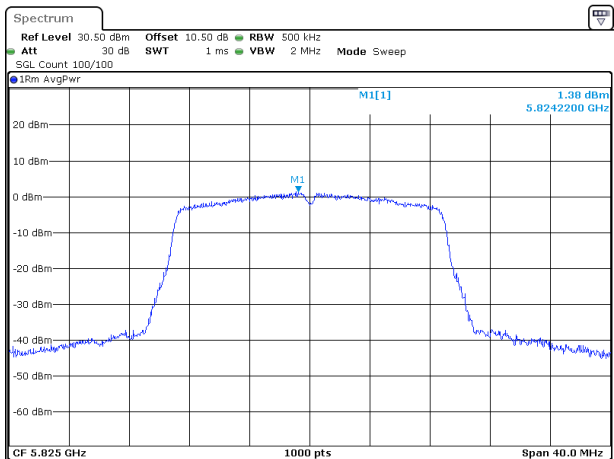
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Date: 2.APR.2025 16:59:56

802.11ac20_5785MHz_Chain 0



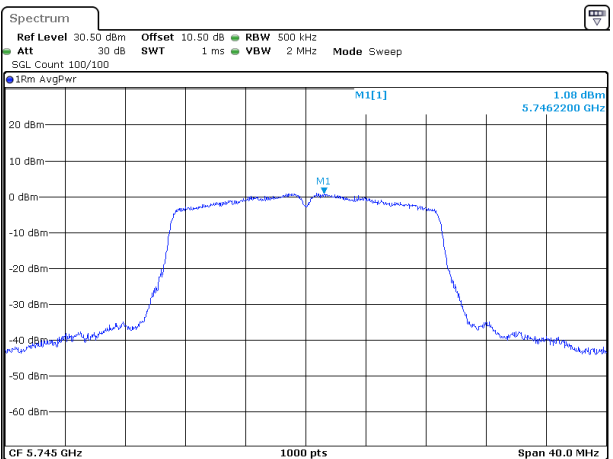
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Date: 2.APR.2025 17:02:35

802.11ac20_5825MHz_Chain 0



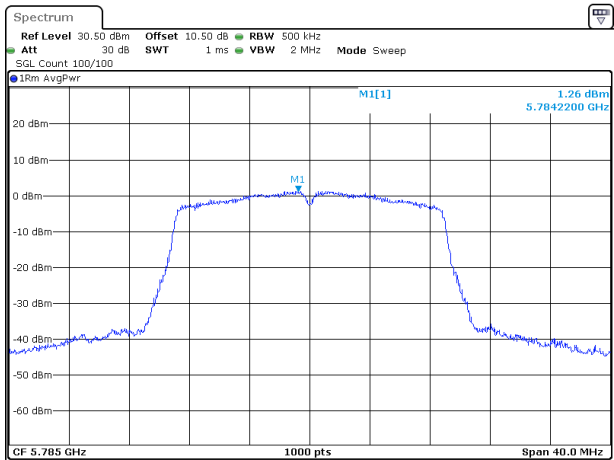
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802.11ac20_5745MHz_Chain 1



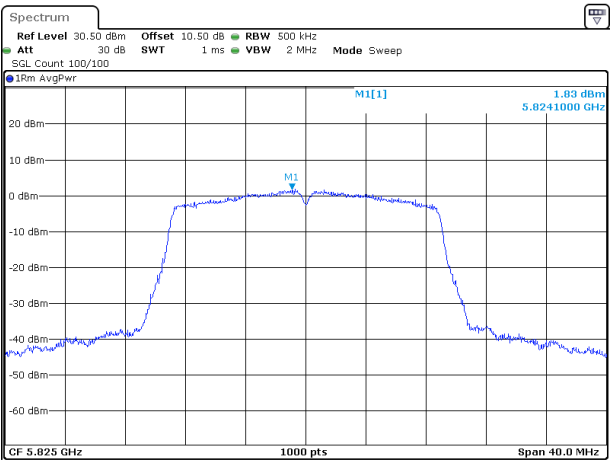
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Date: 2.APR.2025 17:20:09

802.11ac20_5785MHz_Chain 1



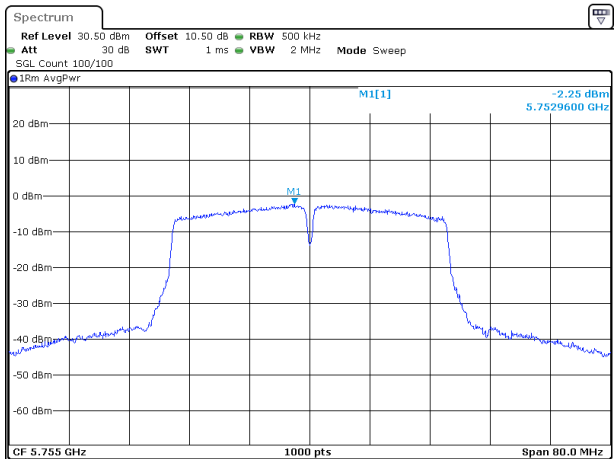
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Date: 2.APR.2025 17:22:44

802.11ac20_5825MHz_Chain 1



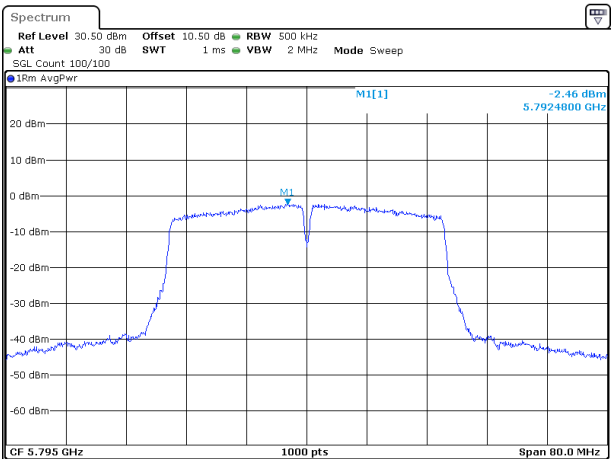
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:24:45

802.11ac40_5755MHz_Chain 0



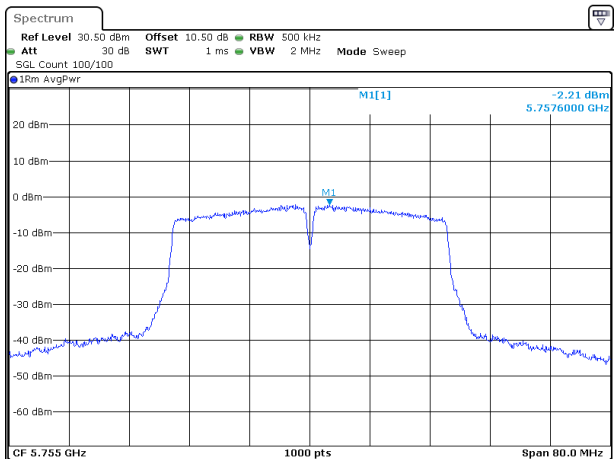
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:06:03

802.11ac40_5795MHz_Chain 0



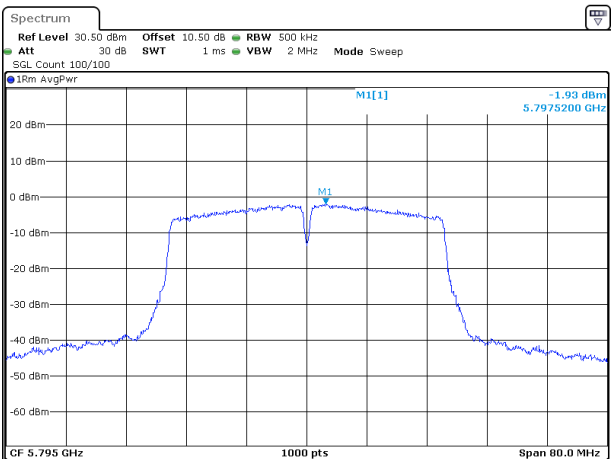
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:07:20

802.11ac40_5755MHz_Chain 1



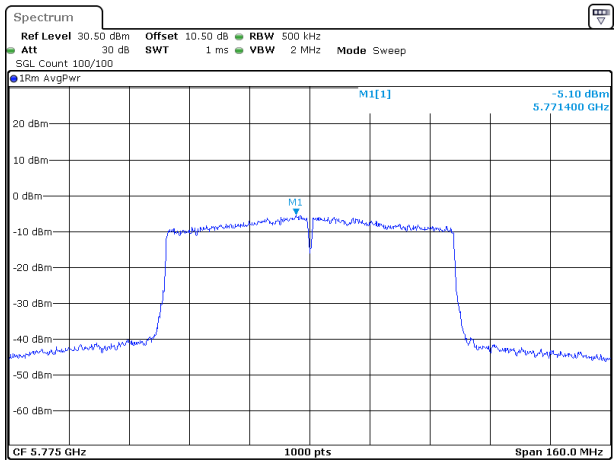
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:31:45

802.11ac40_5795MHz_Chain 1



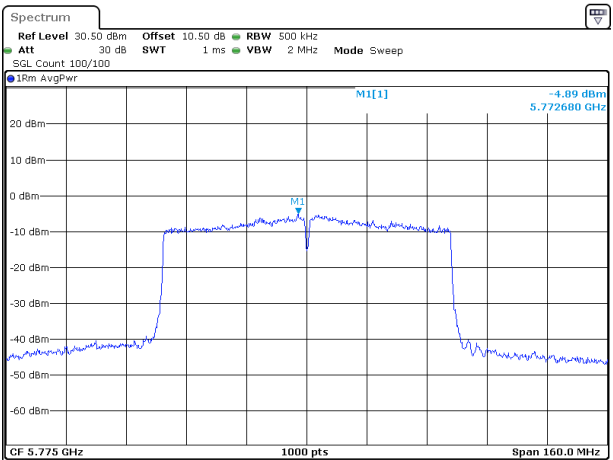
ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:33:00

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:09:02

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501R26990E-RF Tester:Cheeb Huang
Date: 2.APR.2025 17:34:31

Duty Cycle**Test Information:**

Sample No.:	2ZEA-9	Test Date:	2025/03/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	N/A

Environmental Conditions:

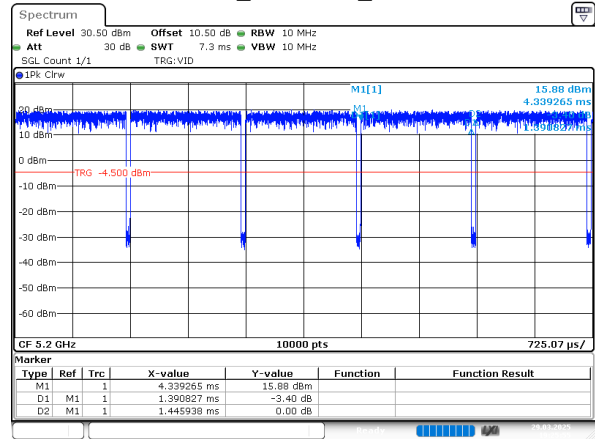
Temperature: (°C)	25.3-25.7	Relative Humidity: (%)	35-39	ATM Pressure: (kPa)	101.3-101.5
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Test Data:

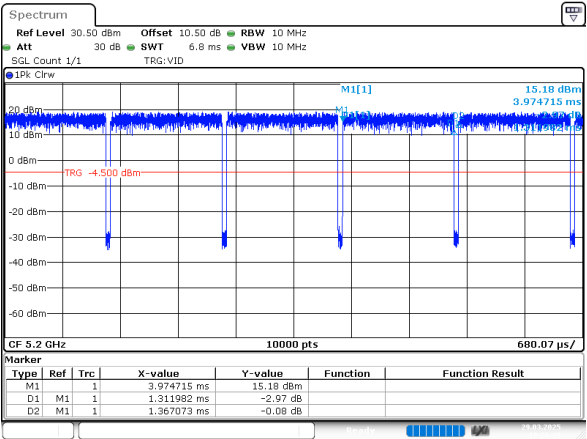
Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5200	1.391	1.446	96.20	0.17	719	1
802.11ac20	Chain 0	5200	1.312	1.367	95.98	0.18	762	1
802.11ac40	Chain 0	5190	0.651	0.705	92.34	0.35	1536	2
802.11ac80	Chain 0	5210	0.324	0.377	85.94	0.66	3086	5

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

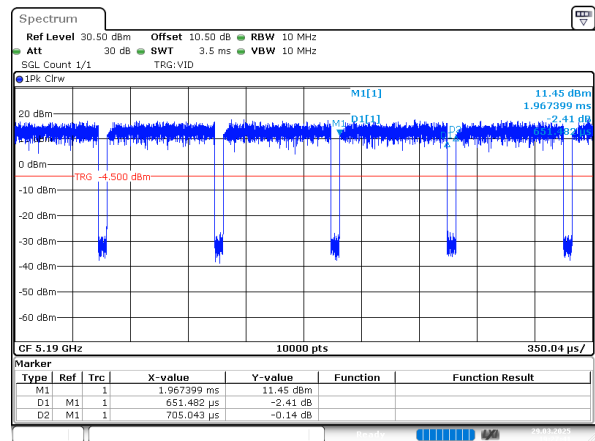
802.11a_5200MHz_Chain 0



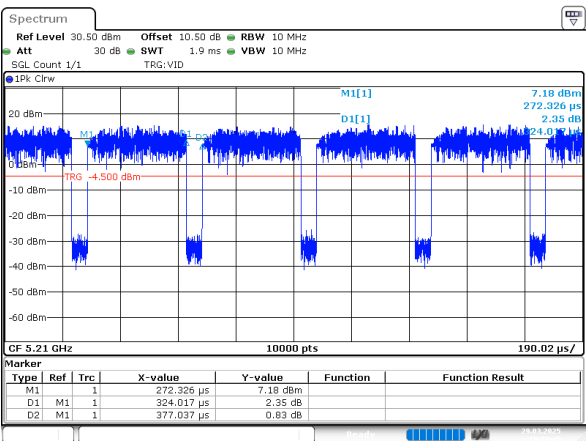
802.11ac20_5200MHz_Chain 0



802.11ac40_5190MHz_Chain 0



802.11ac80_5210MHz_Chain 0



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	$19.2 R^2$.

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	9.0	1.57	-0.58	8.42	6.95	0.2	768
BLE	2402-2480	2.5	1.57	-0.58	1.92	1.56	0.2	768
2.4G Wi-Fi	2412-2462	25.5	4.12	1.97	27.47	558.47	0.2	768
5.2G Wi-Fi	5180-5240	17.0	4.08	1.93	18.93	78.16	0.2	768
5.8G Wi-Fi	5745-5825	18.0	4.01	1.86	19.86	96.83	0.2	768

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

Simultaneous transmitting consideration (worst case):

$$\text{The ratio} = \text{ERP}_{\text{BT}} / \text{limit} + \text{ERP}_{2.4\text{G Wi-Fi}} / \text{limit} = 6.95/768 + 558.47/768 = 0.736 < 1.0$$

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 2501R26990E-RF External photo and 2501R26990E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R26990E-RF-00D Test Setup photo.

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